NUCLEAR SCIENCE ABSTRACTS

FIVE-YEAR CUMULATIVE INDEX

Volumes 21-25
1967-1971

Part 8

SUBJECTS (P — R)

Prepared under the auspices of the United States Atomic Energy Commission
Office of Information Services/Technical Information Center

Xerox University Microfilms

Copyright © by

Xerox University Microfilms
Ann Arbor, Michigan
1973

XEROX® is a trademark of XEROX CORPORATION

All Rights Reserved
No part of this book may be reproduced in any form without permission in writing from the publisher.

This copyright has been assigned and is held by the General Manager of the United States Atomic Energy Commission. All royalties from the sale of this work accrue to the United States Government.

Library of Congress Catalog Card Number: 50-04390
International Standard Book Number 0-8357-0054-2
Printed in the United States of America

REPORT COLLECTIONS IN THE UNITED STATES

The libraries listed below purchase and maintain microfiche collections of USAEC and foreign reports that are abstracted in *NSA*. Their collections also include *NSA* and its indexes, AEC's Technical Progress Reviews, AEC-sponsored translations, conference proceedings published by AEC, and various bibliographic tools. Most of these libraries have microfiche reader-printers or other photocopy facilities with which to reproduce enlarged copies from microfiche. Charges for reproduction services vary.

Report collections of USAEC reports in countries other than the United States are listed on the inside back cover.

ALABAMA
Auburn, Auburn University
Tuskegee Institute, Tuskegee Institute

ALASKA
College, University of Alaska

ARIZONA
Tucson, University of Arizona

CALIFORNIA
Davis, University of California
Los Angeles, University of California
Santa Barbara, University of California

COLORADO
Boulder, University of Colorado

DISTRICT OF COLUMBIA
Washington, Library of Congress

FLORIDA
Gainesville, University of Florida

GEORGIA
Atlanta, Georgia Institute of Technology

HAWAII
Honolulu, University of Hawaii

IDAHO
Pocatello, Idaho State University

ILLINOIS
Urbana, University of Illinois

INDIANA
Lafayette, Purdue University

IOWA
Ames, Iowa State University

KANSAS
Manhattan, Kansas State University

KENTUCKY
Lexington, University of Kentucky

MARYLAND
Baltimore, Johns Hopkins University
College Park, University of Maryland

MASSACHUSETTS
Cambridge, Massachusetts Institute of Technology
Worcester, Worcester Polytechnic Institute

MICHIGAN
Ann Arbor, University of Michigan

MISSISSIPPI
State College, Mississippi State University

MISSOURI
Columbia, University of Missouri
Kansas City, Linda Hall Library

NEW JERSEY
Princeton, Princeton University

NEW MEXICO
Albuquerque, University of New Mexico

NEW YORK
Albany, New York State Library
Albany, State University at Albany
Ithaca, Cornell University
New York, Columbia University
Rochester, University of Rochester
Syracuse, Syracuse University
Troy, Rensselaer Polytechnic Institute

NORTH CAROLINA
Raleigh, North Carolina State University

OHIO
Cincinnati, University of Cincinnati
Cleveland, Cleveland Public Library

OHIO (Continued)
Columbus, Ohio State University
Toledo, University of Toledo

OKLAHOMA
Norman, University of Oklahoma

PENNSYLVANIA
Philadelphia, University of Pennsylvania
Pittsburgh, Carnegie Library
University Park, Pennsylvania State University

PUERTO RICO
San Juan, University of Puerto Rico

SOUTH CAROLINA
Columbia, University of South Carolina

TENNESSEE
Knoxville, University of Tennessee

TEXAS
Austin, University of Texas
College Station, Texas A & M University
Houston, Rice University

UTAH
Salt Lake City, University of Utah

VIRGINIA
Blacksburg, Virginia Polytechnic Institute
Charlottesville, University of Virginia

WASHINGTON
Pullman, Washington State University
Seattle, University of Washington

WEST VIRGINIA
Morgantown, West Virginia University

WISCONSIN
Madison, University of Wisconsin

USAEC reports so indicated in *Nuclear Science Abstracts* are offered for sale by National Technical Information Service, U. S. Department of Commerce, Springfield, Virginia 22151.

NUCLEAR SCIENCE ABSTRACTS

A semimonthly publication of the USAEC Office of Information Services, John A. Harris, Director.
Published by the USAEC Technical Information Center, Robert L. Shannon, Manager.

Nuclear Science Abstracts provides the only comprehensive abstracting and indexing coverage of the international nuclear science literature. It covers scientific and technical reports of the U. S. Atomic Energy Commission and its contractors, other U. S. Government agencies, other governments, universities, and industrial and research organizations. In addition, books, conference proceedings, individual conference papers, patents, and journal literature on a worldwide basis are abstracted and indexed. Each issue of *Nuclear Science Abstracts* includes four indexes: subject, personal author, corporate author, and report number.

The following organizations scan and abstract the nuclear science literature in their respective countries:

- Atomic Energy of Canada Limited
- Australian Atomic Energy Commission
- Danish Atomic Energy Commission
- Finnish Atomic Energy Commission
- French Atomic Energy Commission
- Japan Atomic Energy Bureau–Atomic Energy Research Institute
- Institutt for Atomenergi (Norway)
- Aktiebolaget Atomenergi (Sweden)
- United Kingdom Atomic Energy Authority
- Zentralstelle für Atomkernenergie-Dokumentation (West Germany)

Numerous organizations, societies, and publishers throughout the world provide *Nuclear Science Abstracts* with advance page-proof copy of their publications.

A list of the journals scanned regularly and the abbreviations used appears in the January 15 issue of *Nuclear Science Abstracts* and is supplemented in the July 15 issue. The January 15 issue also describes the scope and arrangement of the subject matter covered in *Nuclear Science Abstracts.* The subject matter covered is also described in TID-4552, *Subject Scope of Nuclear Science Abstracts,* available free from the USAEC Technical Information Center, P. O. Box 62, Oak Ridge, Tennessee 37830. An outline of the subject categories appears in the Contents of each issue.

HOW TO OBTAIN NUCLEAR SCIENCE ABSTRACTS

Nuclear Science Abstracts is available to the public on a subscription basis from the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402.

Commencing in 1973, *NSA* will be issued in two volumes per calendar year. Volume 27 will consist of 12 regular issues January through June, and Volume 28 will consist of 12 regular issues July through December.

For the two 12-issue volumes, the annual subscription rate is $75.50 for domestic subscribers and $94.50 for foreign subscribers. A single issue costs $3.25 domestic rates or $4.07 foreign rates. Domestic rates apply to the United States, Canada, Mexico, and Central and South American countries except Argentina, Brazil, Guyana, French Guiana, Surinam, and British Honduras.

Indexes will be cumulated only for each volume, i.e., on a six-month volume basis.

The annual subscription rate for the two volume indexes is $62.00 for domestic subscribers and $77.50 for foreign subscribers.

The following cumulative indexes are available:

From Johnson Reprint Corporation, 111 Fifth Avenue, New York, N. Y. 10003:

Vols. 1–4, Subjects and Authors (1948–1950), $30.00.

From Superintendent of Documents, U. S. Government Printing Office, Washington, D. C. 20402:

Vols. 5–10, Subjects and Authors (1951–1956), $5.25.

Vols. 11–15, Subjects (1957–1961), $19.00.
Vols. 11–15, Personal Authors (1957–1961), $14.25.
Vols. 11–15, Corporate Authors (1957–1961), $2.50.

Vols. 16–20, Subjects (1962–1966), $36.00.
Vols. 16–20, Personal Authors (1962–1966), $22.50.
Vols. 16–20, Corporate Authors (1962–1966), $3.75.

Vol. 21, Subjects and Authors (1967), $16.00.
Vol. 22, Subjects and Authors (1968), $26.00
Vol. 23, Subjects and Authors (1969), $25.75.
Vol. 24, Subjects and Authors (1970), $22.50.
Vol. 24, Authors (1970), Suppl., $2.00.
Vol. 25, Subjects and Authors (1971), $27.50.
Vol. 26, Subjects and Authors (1972), $37.75.

Cumulative Report Number Index, Vols. 1–15 Revised, $4.00.
Cumulative Report Number Index, Vols. 16–20 Revised, $5.50.
Cumulative Report Number Index, Vols. 21–26, $9.00.

Nuclear Science Abstracts is available on an exchange basis to universities, research institutions, industrial firms, and publishers of scientific information. Government agencies may obtain *NSA* free of charge. Inquiries should be directed to the USAEC Technical Information Center, P. O. Box 62, Oak Ridge, Tennessee 37830.

Nuclear Science Abstracts is also available on 16-mm and 35-mm microfilm in reel or cartridge from Princeton Microfilm Corporation, Alexander Road, Princeton, New Jersey 08540. The cost of Vols. 1–26 (1948–1972) including *Abstracts of Declassified Documents* (1947–1948) is $730.00. The indexes for *Nuclear Science Abstracts* Vols. 1–26 (1948–1972) are also available for $385.00. The cost of each volume (six months) of *NSA* and its indexes is $45.

STAFF OF NUCLEAR SCIENCE ABSTRACTS

Editor and Production Manager
David E. Bost

Associate Editors
Everett J. Hoffman
John W. Norris
Lawrence T. Whitehead

Section Editors
M. Catherine Grissom
Robert C. Kelly
Henry D. Raleigh
Charles E. Stuber
Lee M. Thompson

Descriptive Cataloging Specialist
J. Paul Meredith

Subject Heading Specialist
Sidney F. Lanier

Corporate Author Specialist
Clara L. Fox

Report Number Specialist
Helen W. White

Evaluators
Thomas S. Chapman
John H. Mitchell
Mary H. Newman

Abstractors
E. Ray Bedford
Jane G. Buchanan
D. Lamar Cason
David C. Cunningham
Theodore F. Davis
James R. Dulaney
Helga B. Gerstner
Phyllis C. Hansen
Carolyn D. Houston
W. Hugh Kinser
Lisbeth C. Lieberman
William D. Matheny
Dora H. Moneyhun
Jean F. Peckham
Mona H. Raridon
Julia S. Redford
Jesse W. Rushing
Robert W. Rutkowski
Francis S. Sachs
Lila B. Smith
Polly C. Summers
Helen L. Ward
Kenneth S. Warren
Milton O. Whitson
Martha C. Wilson

Publishing Coordinator
Charles R. Bruce

Computer Processing Coordinator
Noboru Kawakami

Communication concerning the editorial policy and content of *Nuclear Science Abstracts* should be addressed to the Editor, *Nuclear Science Abstracts*, USAEC Technical Information Center, P. O. Box 62, Oak Ridge, Tennessee 37830.

P

P-10
  see Ethylene, Chlorotrifluoro-, Polymers
P-Enzyme
  see α-Glucan Phosphorylase
Pacemakers
  see Cardiac Pacemakers
Pacific Gas and Electric Co. Reactor
  see Humboldt Bay Power Reactor
PACIFIC OCEAN
  analysis for particulate iron-55, lead-210, and polonium-210 and total iron and lead, methods for, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  analysis for trace elements by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  analysis for trace elements in Northeast, by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  analysis of pelagic sediment cores from South, for trace amounts of elements by neutron activation and γ spectrometry, 23:49744 (BNWL-1051(Pt.2), pp 59-63)
  analysis of surface water of, for radioisotopes by ion exchange and γ spectrometry, 23:11444 (BNWL-481-2, pp 1-126)
  atolls of, carbon-14 and thorium-230/uranium-234 methods for determining subsidence rates of, 22:6465
  barium content in, 25:10468
  barium vertical distribution in, 22:42895 (CU-2663-9, App.E)
  beryllium-7 content in, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  carbon-13 to carbon-12 ratios in plankton from, 21:10760
  carbon-14 content in surface layer of, 22:6497
  carbon-14 content in surface waters of, Aug. 1, 1968 to May 1, 1969, 23:29028(R) (RLO-2091-3)
  carbon-14 content in surface waters of, measurements from 1958 to 1967, 22:6496
  carbon-14 content of waters from mid-latitude, measurement of natural and bomb-produced, 25:44546 (RLO-2225-T-20-4)
  carbon-14 content of, Dec. 1968 to Sept. 1969, 24:29399(R) (UCSD-34-P-163-X-1)
  carbon-14 content of, measurements of nuclear explosion-produced, 25:48673(R) (UCSD-34-P-163-X-2)
  carbon-14 measurements in subsurface and deep waters of, 22:23181(R) (UCSD-34-P-74-1)
  carbon-14 transport in, relation of uptake by bones in organisms to, 24:7771
  cerium-144 content of, in relation to depth, 23:40899
  cesium-137 content at moderate depths in, 1965 to 68, 24:44145 (HASL-217, pp I.9-118)
  cesium-137 content in, 22:42893 (CU-2663-9, App.C)
  cesium-137 content of large fish in North, in 1965, 23:18008 (CONF-670503-, pp 337-45)
  chemical composition of water in, effects of Columbia River effluent on, 21:39373(R) (RLO-1750-22(Vol.1))
  chromium-51 content of seawater in, effects of Columbia River input on, 23:49962 (BNWL-1051(Pt.2), pp 36-9)
  circulation at abysmal depths in, measurement of, 24:31518 (UCSD-34-P-127-7)
  circulation in, deep, 21:30554(R) (UCSD-34-P-127)
  circulation on continental shelf near Columbia River mouth, measurements of, 25:44458 (RLO-1725-193)
  cobalt content of aquatic environment of southwest, 1956 to 1957, 23:11646(R) (COO-1264-5)
  Columbia River ecosystem parameter effects on northeast, 23:49967(R) (RLO-1725-150)
  Columbia River effluent distribution in northeast, 21:32285(R) (RLO-1725-96)
  Columbia River effluent distribution in, effect of meteorological factors on, 21:28117 (RLO-1725-62)
  Columbia River effluent distribution in, effects of meteorological factors on, 22:14596 (RLO-1725-87)
  Columbia River effluent distribution in, effects of meteorological factors on, 22:14595 (RLO-1725-86)
  Columbia River effluent distribution in, effects of meteorological factors on, 22:14597 (RLO-1725-91)
  Columbia River effluent distribution in, effects of meteorological factors on, 22:14598 (RLO-1725-92)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28111 (RLO-1725-32)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28113 (RLO-1725-34)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28114 (RLO-1725-35)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28112 (RLO-1725-33)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28116 (RLO-1725-37)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:28115 (RLO-1725-36)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:34346 (RLO-1725-79)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:34345 (RLO-1725-78)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:34344 (RLO-1725-77)
  Columbia River effluent distribution in, effects of meteorological factors on, 21:34347 (RLO-1725-80)
  Columbia River effluent distribution in, effects of meteorological factors on, 22:14594 (RLO-1725-85)
  Columbia River water circulation and mixing in, effect of river discharge on, 22:4271 (RLO-1725-107)
  Columbia River winter plume flow in, chromium-51 tracer study of, 21:39373(R) (RLO-1750-22(Vol.1))
  contamination by nuclear explosions and radioactive waste disposal, 21:41048
  currents in, measurement during Project Wigwam of, 22:10411
  deep-sea sediments of, activity of aluminum-26 in, 22:6459
  deuterium distribution in Kuroshio Current of, 23:17630
  ecology in vicinity of Aleutian Islands, 23:13598 (BMI-171-112)
  ecology of biota in northeast, in relation to Hanford operations, 23:9906(R) (RLO-1750-28)
  ecology of fish, shellfish, and marine mammals in vicinity of Amchitka Island, 23:13597 (BMI-171-109)
  ecology of microorganisms in, effects of chemical factors on, 24:12037(R) (UCSD-10-P-20-52(Pt.2)(Vol.1))
  ecology of northeast, 21:39373(R) (RLO-1750-22(Vol.1))
  ecology of plankton in, 24:11893(R) (UCSD-10-P-20-52(Pt.2)(Vol.2))
  ecosystems at Johnston Island in, effects of dredging on, 21:23793(R) (NVO-90-1)
  element accumulation by fish and seals of Okhotsk Sea in, calcium and strontium, 24:27517
  element content in, 25:10428
  element distribution in waters from northeast, geochemical oceans sections study of trace, 25:37504 (BNWL-1551(Pt.2), pp 23-6)
  fallout distribution in, 21:38815(R) (BNWL-293)
  fallout distribution in marine organisms, 21:381
  fallout monitoring in atmosphere above, comparison of data from Soviet Union and United States on, 21:34654 (NP-16517)
  fallout monitoring in South, during 1969 and 1970, 25:32399 (HASL-242, pp III.1-85)
  fallout monitoring in, following 1968 French nuclear test series, 23:35705(R) (HASL-210)
  fallout monitoring in, near New Zealand, 21:14327(R) (NP-16416)
  fallout monitoring of marine environment of northeast, 21:14340 (TID-23476)
  fallout particle sinking rate in northeast, from Sept. 1961 weapons test, 22:2255
  fallout radioisotope content of rainwater in, during 1966 to 1968, strontium-89 and strontium-90, 23:35726(R) (NP-17935)
  fish population and circulation in, 25:4004(R) (UCSD-34-P-127-5)
  fish population at abysmal depths in, photographic studies of, 24:31518 (UCSD-34-P-127-7)
  fish population in, measurement of, 21:30554(R) (UCSD-34-P-127)
  fission product content in fish from, after nuclear tests, 21:14578
  hydrography of northeast, 21:40745(R) (RLO-1750-22(Vol.3))
  iron deposits in East Pacific Rise of, thorium and uranium isotopic composition of, 25:57585
  iron-55 content of salmon in North, 23:49965 (BNWL-1051(Pt.2), pp 63-8)
  iron-55 transport in marine organisms in, near Columbia River, 23:49966 (BNWL-1051(Pt.2), pp 69-72)
  iron-55 uptake by salmon in, fallout, 23:6482
  Kuroshio flow in, factors affecting, 22:42911 (CU-2663-9, App.U)
  lead content of, depth profile of, 25:34762
  lead-210 contamination of rainwater in, during 1967 through 1968, fallout, 23:35705(R) (HASL-210)
  lead-210 content of rain in, during 1967 through 1968, 23:35726(R) (NP-17935)
  lead-210 content of, depth profile of, 25:34762
  marine phillipsites from, strontium isotopic analysis of, 21:39063 (COO-689-76, App.A-IV)
  migration routes of coho in, after leaving Columbia River, zinc-65 tracer study of, 24:14383 (RLO-1750-54, pp 158-62)
  mixing in deep, use of radon concentration values for calculating rates of vertical, 22:42894 (CU-2663-9, App.D)
  mixing of bottom water in North, patterns of, 22:42904 (CU-2663-9, App.N)
  mixing rates in, methods and analyses of, 22:42890(R) (CU-2663-9)
  nickel-63 content of organisms in, fallout, 23:29490
  nuclear explosions testing in, by France, effects of, on iodine-131 content of animal and human thyroids and of milk in other parts of world, 24:50865
  oceanographic features of, in vicinity of Aleutian Islands, 23:13598 (BMI-171-112)
  oceanographic studies in, for selection of Project Wigwam site, (E), 22:10410
  oceanography in vicinity of Amchitka Island, Alaska, biological and physical, 25:48675
  polonium-210 content of, at various depths, 25:34762
  protactinium-231 distribution in, 25:54810
  radiation monitoring at Yokosuka, Japan after port-call of submarine Plunger, Jan, 1969, 23:43417
  radiation monitoring at Yokosuka, Japan after port-call of submarine Haddock, Feb. 1969, 23:43416
  radiation monitoring in atmosphere and rainwater of, during November 1968, total β, 23:35705(R) (HASL-210)
  radioactivity in air over, measurement of, 21:8457(T) (AEC-tr-6641, pp 14-22)
  radioactivity in air over, measurement of artificial and natural, 21:8455(T) (AEC-tr-6641, pp 32-5)
  radioactivity monitoring in atmosphere and rainwater in, during 1966 to 1968, fission product β, 23:35726(R) (NP-17935)
  radioactivity monitoring in atmosphere and rainwater of, during 1966 through 1968, β, 23:35726(R) (NP-17935)
  radioactivity monitoring in atmosphere over South, during 1970, 25:46820 (HASL-243, pp III.1-35)
  radioactivity of, from protactinium-231 and thorium-231 and -232, 21:4634
  radioecology of fishes, mammals, plankton and seaweeds in, 23:17961(T) (AEC-tr-7030, pp 49-64)
  radioinduced mutations in plankton from south, following nuclear test, 23:24711 (A-AC.82/G/L-1254, pp 18-23)
  radioisotope accumulation in organisms and water of, 23:24577 (A-AC-82/G/L-1254)
  radioisotope content and distribution in seawater of, cesium-137 and strontium-90, 22:40661(R) (HASL-197)
  radioisotope content in ecosystem in Northeast, June 1967, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  radioisotope content in water samples from, 21:34650(R) (BNWL-322)
  radioisotope content of components of ecosystem of, adjacent to Columbia River Estuary, 24:14443(R) (RLO-1750-54)
  radioisotope content of deep and surface waters of, 1965 to 1970 measurements of cesium-137 and strontium-90, 25:51649 (A/CONF.49/P-457)
  radioisotope content of marine deposits in, rapid beta—gamma coincidence method for determination of, 25:39616
  radioisotope content of northeast, relations with depth, (E), 24:14099 (RLO-1750-54, pp 71-4)

  radioisotope content of northeast, relations with depth, (E), 24:14100 (RLO-1750-54, pp 75-7)
  radioisotope content of Oregon coastal waters of, relations with depth, (E), 24:14098 (RLO-1750-54, pp 67-70)
  radioisotope content of plankton in, 23:24580 (A-AC.82/G/L-1254, pp 13-17)
  radioisotope content of rainwater in, during 1968, fallout strontium-89 and strontium-90, 23:35705(R) (HASL-210)
  radioisotope content of salmon in, 23:45725
  radioisotope content of seawater in North, effects of depth and latitude on fallout, 23:49960 (BNWL-1051(Pt.2), pp 27-32)
  radioisotope content of seawater in South, following nuclear test, advective origin of cesium-137 and strontium-90, 23:24581 (A-AC.82/G/L-1254, pp 24-44)
  radioisotope content of sediments in, near Columbia River estuary, 23:49963 (BNWL-1051(Pt.2), pp 40-3)
  radioisotope content of tuna fish in, during 1960 to 1970, 25:49117 (CONF-710501-33)
  radioisotope content of zooplankton in, from fallout, 24:12060(T) (AEC-tr-7128, pp 62-5)
  radioisotope content of, at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
  radioisotope distribution in waters of north, measurements of beryllium-7, cerium-144, niobium-95, ruthenium-106, and zirconium-95, 25:37503 (BNWL-1551(Pt.2), pp 12-22)
  radioisotope distribution of fallout in, 22:36261
  radioisotope transport through food chains in, 25:37770 (BNWL-1551(Pt.2), pp 5-11)
  radium vertical distribution in, 22:42895 (CU-2663-9, App.E)
  radium-226 concentration in, 21:43070 (CU-2663-8, App.R)
  radium-226 content in, 22:4294
  radium-226 content of seawater at Geosecs Station in north, relations with depth, 25:10726
  radium-228 content and distribution in, (E), 24:44147 (TID-25493)
  radon content of surface and bottom of water column at Geosecs Station in north, 25:10727
  radon-222 concentration in, 21:43070 (CU-2663-8, App.R)
  radon-222 content in, 22:4294
  rare earth content in iron—manganese concretions from, 21:26013
  reef-building corals in, cobalt, silver, and uranium content of, 22:47255
  rhenium concentration in surface waters of, 23:26383
  rocks from western islands of, rubidium and strontium content in, 21:39035 (COO-689-76, App.A-V)
  rocks from western islands of, strontium-86 and -87 content of, 22:25504
  salinity, nitrate, phosphate, and silicate distribution in northeast, from Columbia River effluent, 22:14597 (RLO-1725-91)
  salinity, nitrate, phosphate, and silicate distribution in northeast, from Columbia River effluent, 22:14596 (RLO-1725-87)
  salinity, nitrate, phosphate, and silicate distribution in northeast, from Columbia River effluent, 22:14595 (RLO-1725-86)
  salinity, nitrate, phosphate, and silicate distribution in northeast, from Columbia River effluent, 22:14598 (RLO-1725-92)
  salinity, phosphate, silicate, and nitrate distribution in northeast, from Columbia River effluent, 22:14594 (RLO-1725-85)
  sampling of zooplankton in northeast, analysis of, 21:28412 (RLO-1725-82)
  sampling of, using surface-controlled equipment for comparison with recording sensors, 22:42909 (CU-2663-9, App.S)
  sediment from South, detection of aluminum-26 in, (E), 21:14319
  sediment properties in eastern, from Columbia River effluent, 21:36175 (RLO-1725-72)
  sedimentation rates in northwestern, thorium/thorium-230 measurements of, 24:31520
  sediments from, iridium and osmium contents of deep-sea, 22:42916
  sediments in East Pacific Rise of, thorium and uranium isotopic composition of, 25:57585
  sound scattering layers off Oregon coast, 25:31723 (RLO-1750-62)
  species of fish and invertebrates in, possible effects of transisthmian canal on uniting of, with species in Caribbean Sea, 24:50796 (BMI-171-38)
  strontium-90 accumulation by fish and seal of Okhotsk Sea in North, 24:27517
  strontium-90 content and distribution in, 21:30553 (NP-16526)
  strontium-90 content in, 22:42893 (CU-2663-9, App.C)
  strontium-90 content of organisms in, 23:24582 (NP-17712)
  strontium-90 content of plankton in, 24:12029(T) (AEC-tr-7128, pp 57-8)
  strontium-90 content of plankton in, calculation of, 23:24579 (A-AC.82/G/L-1254, pp 10-12)
  strontium-90 content of rainwater in, during 1959 through 1968, 23:35726(R) (NP-17935)
  strontium-90 content of rainwater in, during 1959 through 1968, fallout, 23:35705(R) (HASL-210)
  strontium-90 content of seals from Okhotsk Sea of, during 1966, 22:25827 (NP-17204)
  temperature distribution in bottom water of North, potential, 22:42904 (CU-2663-9, App.N)
  thorium isotopic content of sediments and waters of north, 23:17631
  thorium-230 distribution in, 25:54810
  thorium-234 content of brown and green algae in, 23:24580 (A-AC.82/G/L-1254, pp 13-17)
  tides near Columbia River mouth in, amplitude and phase of, (E), 25:44459 (RLO-1725-194)
  tritium content in surface waters of North, 22:6506
  tritium content of North American coastal waters of, 1963 to 1967, 25:10720
  uranium-234/uranium-238 activity ratio in waters of south, 24:50473
  use of tracer techniques in, to determine littoral transport around Point Conception, California, 21:32325 (CONF-661203)
  water waves in deep, design and performance of instrumentation for measurement of, 22:22892 (HIG-67-11)
  waves in, effect on inundation of Hawaiian Island coasts from, 21:34189 (NVO-235-1)
  yttrium-91 content of, in relation to depth, 23:40899
  zinc content of aquatic environment of southwest, 1956 to 1957, 23:11646(R) (COO-1264-5)
  zinc-65 content of animals in, off Oregon coast, effects of diel, location, and season on, 22:31015
  zinc-65 content of benthic animals and silts in, off Oregon, 23:18011 (CONF-670503-, pp 380-8)
  zinc-65 content of benthic fishes in, effects of depth, distance from Columbia River mouth, and season on, 24:14445 (RLO-1750-54, pp 133-40)
  zinc-65 content of crustaceans in North, 23:17898 (CONF-670503-, pp 399-411)
  zinc-65 content of mussel tissues in, effects of distance from Columbia River mouth on, 24:14394 (RLO-1750-54, pp 154-7)
  zinc-65 loss by mussels in, 22:4571
  zinc-65 transport through benthic ecosystem in, effects of depth, distance from Columbia River delta, and season on, 24:14444 (RLO-1750-54, pp 130-2)
  zooplankton migration in, Operation Wigwam studies of, 22:10409

Pacific Proving Grounds
    see Eniwetok Proving Grounds

PACKAGING
  air and vacuum, effects of, on spoilage of irradiated seafood, 23:41521 (TID-24317, pp 84-103)
  conference on radioactive material, Gatlinburg, Tenn., Oct. 14 to 18, 1968, 23:546 (CONF-681001)
  construction for large radiation sources, 22:264
  container construction for radioactive materials, 21:30676
  container criteria for uranium hexafluoride, description of AEC, 23:4796 (ORO-651(Rev.2))
  control of milk quality, use of nuclear instruments for, 21:34410
  cost of food, effects of radiation processing on, 23:10153
  design and testing for shipping radioactive materials, 22:289
  design and testing of Type A, for shipping radioactive gases and liquids, 23:4794 (AERE-R-5701)
  design and testing of, for shipping large quantities of radioactive material, criteria for, 25:51822
  design and testing of, for shipping unirradiated power reactor fuel assemblies, 25:48863 (CONF-710801-(Vol.2), pp 873-85)
  design for biological materials during space flights, 21:26559(R) (ORNL-TM-1715)
  design for biological materials during space flights, 21:26684(R) (ORNL-TM-1734)
  design for mixed fission product energy sources, effects of shielding requirements on, 23:33332 (BNWL-1115)
  design for radioactive materials, 22:23251(P)
  design for radioactive materials used in medical diagnosis, 23:7719(P)
  design for shipping and storage of radioactive materials, 22:292
  design for shipping Chinon Reactor fuel elements, 22:293
  design for shipping fissionable materials and radiation sources, 22:30813
  design for shipping irradiated fuel elements, 21:30669
  design for shipping radioactive materials, 22:291
  design for shipping radioactive materials, 22:288
  design for shipping radioactive materials, 22:290
  design for uranium hexafluoride shipping containers, engineering drawings for, 22:14745
  design for uranium-233, -235 or plutonium-239 shipping containers, 22:14744
  design of economic impact-sensitive, for transport of fragile products, 24:36463(P)
  design of expendable, for radioactive materials, 22:294
  design of expendable, for radioisotopes, 21:30674
  design of metal, for SNAP-21, 23:7695(R) (MMM-3691-39)
  design of radioactive material, Canadian implementation of IAEA regulations for, 23:548 (CONF-681001-, pp 14-27)
  design of radioactive material, UK implementation of IAEA regulations for, 23:547 (CONF-681001-, pp 1-13)
  design of radioactive materials shipping, functional separation of mechanical components in, 25:51821
  design of radioactive materials, at Bhabha Atomic Research Center, 25:51812
  design of thermally insulated, for lead-shielded shipping container, 25:13196(P)
  design of thick walled steel, for shipping radioactive materials, brittle fracture problems in, 23:565 (CONF-681001-, pp 245-52)
  design of Type A, for shipping radioactive materials, analysis of international and national requirements for, 25:51808
  design of Type B, for shipping irradiated fuel elements, 25:48870 (CONF-710801-(Vol.2), pp 995-1006)
  design of Types A and B, for commercial shipping of radioisotopes, 23:4795 (AERE-R-5871)
  design of vermiculite-insulated, for shipping uranium-235, 22:51207 (Y-DD-19)
  design, fabrication, and testing of Type A, for shipping radioisotopes, IAEA regulations for, 22:47307 (EUR-3485(Vol.2))
  development and uses of standardized, for shipping radioactive materials, 24:421
  development for elimination of track fading in neutron films, 21:19977 (PPAD-611-E)
  development for three-dimensional objects using gradient techniques, 22:25223 (SC-CR-67-2863)
  development of, for radiation processed foods, 21:26743
  economy and safety of, for shipping uranium hexafluoride, 22:282 (CONF-661011, pp 120-31)
  effectiveness for preservation of irradiated seafood, 23:41518 (TID-24317, pp 9-34)
  effectiveness of plastic films for, of radiation processed foods, 23:3009
  effects of plastic, on induced radioactivity in food from electron sterilization, 21:14782
  effects of plastic, on storage of radiation-processed beef, 22:23703
  effects of sorbic acid cellophane, combined with gamma radiation, on mold growth in cheese, 21:14784
  effects of, on refrigerated storage life and wholesomeness of irradiated fish, 21:1858
  effects on biochemical processes in irradiated seafood, 21:20457(R) (RLO-1730-5)
  effects on color of beef following radiation processing, 25:49337
  effects on color of stored radiation-processed tuna meat, 23:50970
  effects on fission neutron radiosensitivity of barley seeds, 25:16376 (ORO-678, pp 135-51)
  effects on growth of microorganisms in γ-irradiated polished and unpolished rice, polyethylene, 22:43505
  effects on γ-radioinduced production of gases in packaged foods, 22:601
  effects on γ-radiosensitivity of strawberries, 22:8667
  effects on microflora in irradiated haddock, 21:24697
  effects on organoleptic properties and storage life of γ-irradiated fresh poi, 23:10147 (UH-235-P-5-3, pp 149-54)
  effects on organoleptic properties of α, γ, or neutron-irradiated beef and pork, 23:32007
  effects on outgrowth time of Clostridium botulinum type E in irradiated fillets of haddock and petrale sole, combined effects of storage temperature on, 23:24779 (TID-24881)
  effects on radiopreservation of fish, 22:2559
  effects on radiosensitivity of storage life, taste, and wholesomeness of seafoods, 22:17064
  effects on spoilage patterns of γ-irradiated foods, 22:4724
  effects on storage life of Dungeness crab meat at 33°F, 23:32011
  effects on storage life of radiation processed seafoods, 22:26017(R) (TID-23835)
  evaluation for radiation-processed bacon, 21:30941 (CONF-670202, pp 49-51)
  evaluation for radiation-processed bacon, 21:30946 (CONF-670202, pp 91-5)
  evaluation of, for radiation-processed fish, 21:26721
  guide for radioactive materials, at ORNL, 24:19185 (ORNL-TM-2769)
  leak tightness of, for radioactive materials, comparison of methods for testing, 25:15871
  leak-tightness and shielding properties of radioactive materials, criteria for evaluation of, 25:51816
  materials for irradiated food, 22:52061 (CONF-670945)
  materials for irradiated food, status of petitions to FDA for approval of, 23:19879 (NP-17799)
  materials for radiation-processed food, 23:18143 (CONF-670945-, pp 154-98)
  materials for, method for surface analysis of, 24:3054
  method for radiation sources, automatic, 25:44575(P)
  methods for irradiated food, 23:35960
  methods for radioactive material, for safe shipping by sea, 24:2416 (NP-18041)
  methods for radioactive material, USAEC recommendations for improving, 23:561 (CONF-681001-, pp 187-98)
  methods for radioactive materials, development of special arrangement, 25:34843 (AECL-3804)
  methods for radiopasteurized seafoods, effect on quality of, 22:210(R) (TID-24016)
  methods for radium source, effects of regulatory requirements on, 23:560 (CONF-681001-, pp 160-86)
  plastic films as, for radiation processed seafood, evaluation of, 24:34805(R) (TID-25312)
  properties of plastic, for γ-irradiated fish, 22:6931
  protective shock cushioning in, method of approximating requirements for, 21:24131 (SC-DR-67-219)
  radiation effects on flexible materials for irradiated food, 22:11103
  radiation effects on laminated plastic, 22:19466
  radiation effects on material for food, evaluation of data on, 23:18177 (CONF-681006-, pp 247-9)
  radiation effects on materials for radiosterilized food, gamma, 25:30033
  radiation effects on materials for, during food pasteurization and sterilization, 24:34820
  radiation processing of food, 1968 report of work in Organization for Economic Cooperation and Development in, 23:38914
  radiosterilization of plastic, for blood, γ, 22:4723
  regulations for fissile and radioactive materials, 24:4416 (DPSPU-69-124-3)
  regulations for hazardous materials, US Dept. of Transportation, 25:57710
  regulations for nuclear materials, IAEA, 24:453
  regulations for radioactive compounds in U.S.S.R, 22:6810(T) (AEC-tr-6467/2, (pp 143-76))
  regulations for radioactive material, for marine transport, development of, 23:552 (CONF-681001-, pp 62-71)
  regulations for radioactive material, for shipment by commercial carrier, 23:556 (CONF-681001-, pp 114-17)
  regulations for radioactive material, for shipping, evaluation of compliance to, 25:48842 (CONF-710801-(Vol.2), pp 592-602)
  regulations for radioactive material, for shipping in aircraft, 25:42457

- regulations for radioactive material, for shipping in aircraft, 25:42456
- regulations for radioactive material, implementation of AEC, 23:550 (CONF-681001-, pp 37-46)
- regulations for radioactive material, implementation of AEC, 23:551 (CONF-681001-, pp 47-61)
- regulations for radioactive material, in Germany, 22:40355
- regulations for radioactive material, Oak Ridge Operations management of, 23:553 (CONF-681001-, pp 72-90)
- regulations for radioactive material, summary of U.S, 25:26445 (BRH/DMRE-71-1)
- regulations for radioactive materials and radioisotopes for shipment by air, rail, truck, or water in USA, 25:19017
- regulations for radioactive materials in Scotland, 22:8328 (NP-17195)
- regulations for radioactive materials, IAEA, 25:44580
- regulations for radioactive materials, review of US Dept. of Transportation, 25:48782 (CONF-710617-8)
- regulations for safe, of radioactive materials, evaluation of IAEA, 23:21925 (EUR-3485(Vol.1))
- regulations for safe, of radioactive materials, review of, 25:26452
- regulations for safe, of radioactive sources, compliance of portable cesium-137 irradiator with, 23:47726 (ORNL-TM-2293)
- regulations for shipping radioactive materials in East Germany, 22:285 (SZS-10/67)
- regulations for solid radioactive waste, for deep-sea disposal, 22:51121
- regulations of IAEA for use of, in international shipments, 22:45589
- requirements for nuclear materials, development of IAEA test, 25:51805
- safety in radioactive material, reponsibilities of consignor and consignee for, 25:48850 (CONF-710801-(Vol.2), pp 708-18)
- safety of Type B, during shipment of radioactive materials in US, (E), 25:51806
- standardization of Types A and B, for shipping radioactive materials, 25:51811
- standards for radiation-processed foods, 21:45858
- standards for radioactive materials, 25:34851
- standards for radioisotopes transported by mail, 25:42494
- standards for safe, of national and international shipments of radioactive materials, review of, 23:583 (CONF-681001-, pp 487-500)
- structural integrity of BNL Shipboard Irradiator, analysis of, (E), 22:8258 (ORNL-TM-2064)
- test station for radioactive materials, design of, 22:45260 (EUR-3485(Vol.3))
- testing of radioactive material, IAEA regulations for, 22:45262 (EUR-3485(Vol.5))
- testing of radioactive materials, at Bhabha Atomic Research Center, (E), 25:51812
- testing of radioactive materials, for compliance with IAEA containment and shielding standards, methods for, 25:51817
- testing of radioactive materials, French programs for mechanical and thermal, 25:51814
- testing of radioactive materials, US programs for, 25:51813
- testing of SG cast iron and wood-insulated, for shipping radioactive materials, fire resistance and impact, 23:574 (CONF-681001-, pp 354-72)
- testing of Type A, for friable solid radioactive materials, evaluation of IAEA regulations for, 23:588 (CONF-681001-, pp 646-62)
- testing of Type A, for shipping radioactive materials, analysis of international and national requirements for, 25:51808
- testing of Type A, for shipping radioactive materials in Hungary, (E), 25:51810
- testing of Type A, for shipping radioactive materials, equipment and methods for, 25:51809
- testing of Type B, for shipping radioactive materials, equipment and methods for drop and thermal, 25:51815
- testing of Types A and B, for shipping radioactive materials, recommendations for drop, 25:51807
- testing of Types A and B, for shipping radioactive materials, (E), 25:51811
- testing of types UKT-I-V and UKT-II-V, for shipping radioactive materials, methods for mechanical and thermal, 25:51820
- testing of wood, for shipping radioactive materials, fire resistance and impact, 23:572 (CONF-681001-, pp 320-43)
- testing standards for radioactive materials, for shipping, 25:48804 (CONF-710801-(Vol.1), pp 1-24)
- use of cellulose and plastic, for storing radiation-processed ham, 25:49329
- use of polyethylene bags for, of irradiated seafoods, 23:35967
- vacuum, effects of, on efficiency of radiation processing of fish, 23:20451
- vacuum, effects of, on hazards from Clostridium botulinum in γ irradiated fish meat, 23:18155 (CONF-681006-, pp 67-71)

PACKED COLUMNS
- capillarity in porous media, temperature effects on water, 22:14666(R) (ORO-3411-10)
- design for production of boron-10, 25:51720 (NUMEC-3292-20)
- development for use in reprocessing molten salt fuels, 24:16625 (ORNL-4449, pp 214-47)
- dispersion coefficients in, measurement of axial, 25:51585 (ORNL-TM-3139)
- dispersion in, for contacting liquids with high density difference, axial, 25:54719 (ORNL-4682, pp 229-39)
- dispersions in, axial, 25:2195 (ORNL-4572, pp 251-7)
- efficiency for separation of heavy water—water and heptane—methylcyclohexane, 23:45388
- efficiency for sulfur-34 enrichment in ammonium sulfite—sulfur dioxide systems, 24:25221
- evaluation of 12-in. production, in boron-10 separation cascade, economic and performance, 25:48731 (NUMEC-3292-21)
- fabrication for molten salt purification using molybdenum, 25:2609 (ORNL-4570, pp 175-90)
- flow distribution at exit of glass sphere, measurement of air, 21:26041 (AAEC/TM-354)
- fluidization in, effect of pulse and step temperature on, 21:34396 (RPI-3639-3)
- heat transfer at wall of, mathematical model to study radial, 22:230 (AAEC/TM-389)
- heat transfer coefficients for, design of equipment for measurement of, 21:34396 (RPI-3639-3)
- hydrodynamics of liquid bismuth—molten salts in, simulation of, 25:2313 (ORNL-4572, pp 1-36)
- performance of countercurrent contactor, effects of axial dispersion on, 25:51585 (ORNL-TM-3139)
- performance of, effects of axial mixing on, 24:16625 (ORNL-4449, pp 214-47)
- pressure drop in, dynamics of effects of feed flow rate on, 22:23003 (IA-1128, pp 97-146)
- sphere removal from, surface fluidization method for, 23:26402 (BNL-12625)
- use in decontamination of high-level liquid wastes, 21:22120
- void volume in granular, use of aerosol breakthrough curves for measuring interparticle, 25:21271 (CONF-700816-(Vol.2), pp 635-52)

PADAP
- see Phenol, 5-(Diethylamino)-2-(2-pyridylazo)-

PADUCAH AREA (Ky.)
- radiation monitoring in, during 1967 and 1968, 23:33705 (KY-582)
- radiation monitoring of air, vegetation, and water in vicinity of Paducah Plant 1965 to 1966, 22:491 (KY-543)
- radiation monitoring of environment of, during 1969, 25:6700 (KY-624)
- radiation monitoring of environment of, during 1970, 25:29502 (KY-629)
- radiation monitoring of environs of, during 1969, 25:13431
- radioactive contamination of environment at, during July to December 1967, α, β, and γ, 23:12097
- radioactivity monitoring in environment of, during 1970, 25:42420
- radioactivity monitoring in environment of, during July to December 1968, 23:45745
- uranium content of atmosphere and surface waters in, during 1968, 23:31777

Paducah Plant
- see Gaseous Diffusion Plants

Padutin (R)
- see Callicrein

PAHUTE MESA AREA (NEV.)
- drilling of 72 in. hole at, effects of drilling practices and geology on rate of, 24:16672 (NVO-38-21)
- exploration of, tabulated drill hole data on geophysical, 24:46338(R) (USGS-474-70)
- geologic faults and surface fractures in, effects of Jorum Event on, 25:8356 (USGS-474-92)
- geologic faults in, effects of underground nuclear explosions on, (E), 24:16680 (USGS-474-64)
- geology of, exploration of, 24:18872 (USGS-474-63)
- geology of, revised lithographic data from Drill Hole No. 1 on, 25:8357 (USGS-474-96)
- ground motion at, from underground nuclear explosions, prediction of velocity response spectra for, 24:341 (NVO-1163-TM-8)
- rock fracturing at, effects of Greeley event on, 23:38095 (USGS-474-12)

PAINTS
- see also Lacquers
- age of, use of lead-210/radium-226 method for estimation of, 21:16008
- age of, use of polonium-210/radium-226 method for estimation of, 21:16008
- analysis by neutron activation, 25:57373
- analysis by neutron activation, 23:33165
- analysis by neutron activation, 24:50356(R) (GA-9822)
- analysis by neutron activation for forensic purposes, 25:31845 (GA-10142)
- analysis by neutron activation for use in forensic science, 22:4003
- analysis by neutron activation methods, 22:22929(R) (GA-8013)
- analysis for constituents by neutron activation and γ spectrometry, 25:39458
- analysis for detection of art forgeries, x-ray fluorescence spectroscopy, 24:50650
- analysis for elements by neutron activation methods, 22:33260
- analysis for lead, equipment for x-ray fluorescence, 25:35043
- analysis for metals by atomic absorption spectrophotometry, 25:39416
- analysis for silver by neutron activation methods, 22:14433 (ORNL-4196, pp 66-89)
- analysis for trace elements by neutron activation and radiochemical separation, 24:129
- analysis for trace elements by neutron activation and γ spectrometry, 23:28747
- analysis for various elements by neutron activation methods, 22:16399 (GA-8171, pp 133-44)
- analysis of black, for elements by neutron activation methods, 22:16395 (GA-8171, pp 63-78)
- analysis of oil, by neutron activation and autoradiography, 23:35048
- analysis of pigments in, for trace amounts of elements by neutron activation and γ spectrometry, 23:45223(R) (NYO-3953-1)
- analysis of white lead from, for trace elements by activation methods, 21:1280
- analysis of, for trace elements by neutron activation, 21:5801
- applying of, development of new methods for, 23:45350
- comparison of radioactive luminous, gram-Lambert radiation unit for, 24:21106
- compatibility of vinyl, with heavy water, 22:36554 (BARC-322)
- contamination and decontamination of epoxide, 21:3405
- decontamination of surfaces of, by alkaline oxidizing and acid reducing solutions, 23:19851
- decontamination of surfaces of, performance of detergents for, 23:40958
- decontamination of, use of radiation for microbial, 21:16072(R) (NYO-3736-2)
- decontamination of, used in nuclear plants, 24:29379
- decontamination on surfaces, efficiency of water vapor for, 22:31114
- decontamination on surfaces, method for testing, 21:43423
- decontamination properties of, method for determination of, 21:41193
- decontamination properties of, method for determination of, 25:2423
- decontamination testing of protective, using aqueous uranyl nitrate, 23:8366
- deuterium exchange between heavy water and epoxy-base, 21:25868 (AEET-274)
- diffusion of tritium from luminous, 21:12285(R) (ORNL-4039)
- effects on photoreceptor mechanism of Coturnix coturnix and Papilio xuthus, radioluminous, 22:25758
- evaluation of Burgess Fobes, for reactor containment building protective coatings, 25:12804 (ORNL-TM-3104)
- evaluation of commercial, for use in nuclear facilities, 25:2821 (ORNL-4572, pp 258-61)
- fission product deposits on, effects of water cooled reactor coolant loss accident conditions on iodine, 23:52377 (BMI-1865)
- hazards from manufacture and use of luminous, 21:41415
- hazards of tritium luminous dial, 24:21106
- heat transfer through white, on window glass, 24:20942 (FOA-4-4368)
- identification by neutron activation methods, 22:48835
- inhalation of luminous, containing promethium-147, by mice, 23:11990 (SZS-11/68, pp 21-9)
- iodine deposition on phenolic-base, in gas streams, 21:15642(R) (BMI-X-10179)
- leach tests of tritium-activated, 21:39129 (ORNL-4155)
- methyl iodide deposition on phenolic-base, in gas streams, 21:15642(R) (BMI-X-10179)
- permeability of films of, tracer methods for measuring, 24:17405
- physical properties of protective, for use in nuclear facilities, standard for, 25:32869
- production of polymeric, by radioinduced polymerization of vinyl acetate, 25:32101 (ORO-673)
- production of radioactive luminescent, review, 21:3221
- production of, use of radioinduced polymerization in, 23:35231
- promethium-147 content of luminous, inhalation of, by mice, 23:11990 (SZS-11/68, pp 21-9)
- promethium-147 content of luminous, metabolism of, by mice, following inhalation, 23:11989 (SZS-11/68, pp 12-19)
- properties for reactor containment building protective coatings, effects of accident conditions on, (E), 25:12804 (ORNL-TM-3104)
- properties of, use of radioisotopes in studies of, 21:3041
- radiation curing of films of, effects of dose on electron, 24:31396
- radiation curing of, developments in, 25:2243
- radiation dose from promethium-147 activation of luminous, β and γ, 25:11065
- radiation effects on, 21:18362
- radiation effects on contamination, decontamination, and surface appearance of chlorinated rubber, nitrocellulose-acryl resin, and vinyl chloride resin, γ, 23:48584
- radiation effects on curing of, electron, 23:45350
- radiation effects on curing polymerizable binders for, electron, 25:29120(P)
- radiation effects on epoxy-base, for use on swimming pool type reactors, gamma, 21:25868 (AEET-274)
- radiation effects on hardening of, electron, 25:23606
- radiation effects on man following industrial use of luminous, containing radium-226 or radium-228, pathological α and γ, 23:10098(R) (NYO-2181-5(Vol.2))
- radiation effects on man following industrial use of luminous, containing radium-226 or radium-228, pathological, α and γ, 23:9937(R) (NYO-2181-5(Vol.1))
- radiation effects on personnel manufacturing luminous, regulations for protection against, 22:23559
- radiation effects on properties of zinc oxide-base, proton and uv, 25:29105
- radiation effects on reflectance of, 20, 50, and 80 keV electron, 23:51151 (N-69-30549)
- radiation effects on stability of oil, neutron, 23:35048
- radiation effects on thermal control coatings of, 23:44025 (N-69-23865)
- radiation effects on thermal reflectance of white, 40-keV proton, 25:786 (N-70-32499)
- radiation effects on thermal reflectance of white, 35-keV electron, 25:786 (N-70-32499)
- radiation effects on, for use in nuclear plants, 24:29379
- radiation effects on, γ, 24:1110 (ORNL-4422, pp 333-7)
- radiation hazards from radioactive luminous, used for watch dials, 23:50559
- radiation hazards from use of luminous, 24:34367 (CONF-690335, pp 44-53)
- radiation hazards to man wearing watches using radium luminous, 24:34349
- radiation protection guide for personnel using radiation-activated, ILO, 25:42462
- radiation protection standards for radioluminous, in timepieces, 25:46863

radiation resistance of selected, evaluation of, 25:54396 (ORNL-4682, pp 242-9)
radioactivity contents in selfluminous, for watches and clocks, measurement of, 24:20988
radioinduced crosslinking of, 24:18983 (CEA-CONF-1413)
radioinduced curing of, 24:7480
radioinduced curing of films of, electron, 25:51503 (A/CONF.49/P-647)
radioinduced curing of films of, viscoelastic properties of products from electron, 24:31395
radioinduced curing of resin, electron, 25:18439(P)
radioinduced curing of vinyl-resin, electron, 25:4095(P)
radioinduced curing of, 300-keV electron electrostatic accelerator for, 25:20213
radioinduced curing of, electron, 24:22712
radioinduced curing of, electron, 23:40781
radioinduced curing of, review on electron, 25:21018
radioinduced curing of, review on electron, 25:51498
radioinduced polymerization on polyolefin surfaces, electron, 24:19033(P)
reactions of organic, with iodine, 24:13999 (ORNL-4400, pp 134-41)
reactions with iodine, effects of hydrogen, temperature, and water on, 24:20747 (ORNL-TM-2760)
testing of electric insulator, method using radioactive powders for, 23:47870(P)
thickness of, use of beta backscattering method for determining, 22:28197
tritium contamination of personnel from luminous, clinical and post mortem analyses of internal, 24:19285(T) (CONF-680657-2)
use for undercoatings in radiation areas, chlorinated rubber, 21:43425
use of radiation-resistant, as radionuclide barriers, 21:18362
use of radium in luminous, for instrument dials, hazards to personnel from, 25:32435

PAIR PRODUCTION
see also Electron Pairs
see also Neutrino Pairs
Born approximation cross sections for, in Coulomb field, 22:39225
Coulomb correction for, (T), 22:48601
cross sections for corrections to the Bethe—Heitler formulas for, (T), 23:43002
cross sections for direct, with total electron energies of 5.511 and 32 MeV, (T), 22:44803
cross sections for electron, second-order Born corrections to, (T), 22:50669
cross sections for incident photons of 1.073 to 2.615 MeV, (T), 25:43417 (NYO-3829-71)
cross sections for incident photons of 1.073 to 2.615 MeV, effects of atomic-electron screening on, (T), 25:56275
cross sections for $Z = 1$ to 100 elements, tables of, 22:5869 (LA-3753)
cross sections for $Z <$ or $=$ 94 elements from 0.001 to 100 MeV, data evaluation for, 23:10696 (UCRL-50400(Vol.6))
cross sections for, analytical approximations for calculating total, (T), 23:5557 (SC-RR-68-619)
cross sections for, at 5 keV to 1 MeV, calculation using screened potential model, 25:24909
cross sections for, computer program for calculating, (T), 22:9916 (AERE-M-1956)
cross sections for, in γ reactions at 1 to 2 MeV, (E/T), 25:33395
Dirac equation solutions for, in constant external electromagnetic field, 24:3730
effect on quantum theoretical measurements, 21:13666
effects of electron anomalous magnetic moment in strong magnetic fields on, (T), 22:41344
effects on Friedmann models of early Universe, (T), 22:47726
effects on partially degenerate equations of state for electrons, (T), 22:49919
effects on stars with high core mass, (T), 22:26167
in magnetic fields of 10^{14} gauss due to gravitational collapse, (T), 23:22713 (N-68-36362)
instabilities in stellar interiors due to, (T), 22:47761
instability of, induction of supernova explosions by, (T), 22:36569 (N-68-22685)
interactions $e + e$ and $e^+ + e^-$ in colliding beams for, (T), 25:36448
Lee model for, Schwinger functional differentiation methods for relativistic, 23:46802
magnetic effects on, during two-photon collisions, 23:12592
nuclear form factors for electron and meson (μ), elastic and inelastic, (T), 22:27392
photon motion in magnetic field for, operator method for quantum effects in, 22:3583
positron spectra and total cross sections for photon energies below 2.5 MeV, calculations as function of atomic number, (T), 22:44790
probabilities of spinor and scalar, in external electric field, (T), 24:35627
problems of, in intense magnetic fields during gravitational collapse, (T), 22:49898
quantum electrodynamics with modified fermion propagator for asymmetrical, 23:23528
radiative corrections to symmetric, 22:26606
research in $\gamma + e$ interactions and γ reactions with nuclei at 2.62 MeV, streamer chamber, (E), 25:17363
spectra for, calculations for Coulomb correction in, (E), 22:48598
theory for wide-angle, from $\gamma + p \to p + l^+ + l^-$ C-noninvariant interactions, 22:17901
theory for, methods of wave statistics for linearizing second-order relativistic Hamiltonian for formulas in, 23:39810
theory of, review of, 22:43858 (NYO-3829-17)
theory, (T), 22:5883

PAKISTAN
atomic energy development programs in, review of, 25:50906
fission fragment detection and measurement in fallout at Pinstech, after May 9, 1966 Chinese nuclear explosion, 22:51097 (PINSTECH/HP-3)
nuclear energy uses in, review of potential for, 24:16137
nuclear power plant construction in, planning for, 25:18050
nuclear power program in, application of heavy water moderated reactors for, 22:25038
nuclear standards in, compilation of, 24:2007 (ORNL-NSIC-63)
power generation in, costs of conventional and nuclear, 24:28900
power plants in, development of nuclear, 25:10098
power requirements for, prospects for dual purpose reactors for, 25:54234 (A/CONF.49/P-299)
programs for radiosterilization of insects infesting stored grain in, 25:47068 (AECD/RB-12)
radiation dose to nuclear personnel in, average, 24:44497
radiation effects on eggs of lepidopterous pests in, effects of, on food grains, γ, 24:2839
radiation processing of potatoes in, storage evaluation of γ, 22:43507
radioisotope production and control in, 21:28013
radiopreservation of rice in, effects of, on organoleptic properties, 24:29905
research programs in, on neutron activation analysis of biological materials, 25:2125 (IAEA-122, pp 27-36)
rice breeding in, use of radiation for, 24:41808
role of atomic energy in sericulture in, 21:4667 (AECD/RB-3)
uranium deposits in Dera Ghazi Khan Desert of, geological characteristics of, 25:23720
uranium reserves in, estimates of, 1967, 22:23174 (NP-17371)
water requirements for, prospects of dual purpose reactors for, 25:54234 (A/CONF.49/P-299)

Pakistan Research Reactor at Nilore (PARR)
see Reactors, Research

Palanquin Project
see Plowshare Project

PALISADES POWER REACTOR
accident for, analysis of maximum hypothetical, 23:34857 (DOCKET-50255-16)
accidents in, final safety analysis of, 24:6997 (DOCKET-50255-21)
accidents in, methods used in evaluating rod worths and peaking factors for analyzing hypothetical control rod ejection, 23:43039 (DOCKET-50255-19)
accidents in, tabulation of respiratory protection equipment for use subsequent to, 24:13465 (DOCKET-50255-23)
boilers for, description of mobile heavy-lift equipment and techniques for transport of, 23:23837
buildings and structures at, temperature differentials in and seismic damping factors for concrete, 23:40259 (DOCKET-50255-18)
buildings and structures for, final safety analysis of, 23:15540 (DOCKET-50255-13)
buildings at, design criteria and materials for, 23:43039 (DOCKET-50255-19)
buildings for, design bases for, 22:37411 (DOCKET-50255-3)
buildings for, final safety analysis of, 23:19419 (DOCKET-50255-14)
condenser cooling system for, revised technical specifications for, 25:41329 (DOCKET-50255-45)
construction of, extension of completion date on permit for, 24:43659 (DOCKET-50255-28)
construction of, overall quality control and design program for, 22:37412 (DOCKET-50255-4)
containment building for, description of post-accident venting provisions for, 24:13465 (DOCKET-50255-23)
containment building for, structural integrity test of, 25:8011 (DOCKET-50255-32)
containment building ventilation system for, development of, 22:39745 (DOCKET-50255-7)
containment spray system for, flow diagram for, 22:39745 (DOCKET-50255-7)
containment spray system for, safety analysis of, 22:37412 (DOCKET-50255-4)
containment spray system for, use of sodium hydroxide buffered boric acid in, 25:36929 (DOCKET-50255-41)
containment structure end anchorage zone for, final safety analysis of, 24:6997 (DOCKET-50255-21)
containment structure for, description of cracks in welds in liner plate of, 23:13359 (DOCKET-50255-12)
containment structure for, detailed analysis of concrete, 23:13359 (DOCKET-50255-12)
containment structure for, strain instrumentation for, 23:13359 (DOCKET-50255-12)
containment structures for, design and construction program for, 22:37411 (DOCKET-50255-3)
containment structures for, modifications of design specifications for seismic stress in, 24:1938 (DOCKET-50255-20)
containment system for, calibration of equipment for, 24:16033 (DOCKET-50255-24)
containment system for, performance tests on air cooler equipment for, 23:40259 (DOCKET-50255-18)
containment system for, tabulation of materials subject to corrosion by ECCS sprays in, 24:13465 (DOCKET-50255-23)
containment systems for, final safety analysis of, 23:15540 (DOCKET-50255-13)
containment systems for, preliminary safety analysis of, 22:37409 (DOCKET-50255-1)
containment systems for, procedures for dynamic analysis of, 23:43039 (DOCKET-50255-19)
containment systems for, revised design information on, 22:37415 (DOCKET-50255-8)
containment systems for, safety analysis of design of, 22:37412 (DOCKET-50255-4)
containment vessel for, ECCS drainage system in, 23:40259 (DOCKET-50255-18)
control elements for, circuit diagrams for shutdown sequence of, 24:1938 (DOCKET-50255-20)
control rod drives for, design modifications of, 25:8010 (DOCKET-50255-30)
control rod drives for, effects of epoxy deposits on test failure of, 25:56911 (DOCKET-50255-54)
control rod drives for, modifications of actuating relay circuits for, 25:23167 (DOCKET-50255-34)
control rod ejection from, analysis of consequences of hypothetical, 22:42184 (DOCKET-50255-10)
control rods for, revised design for drive mechanism for, 22:37414 (DOCKET-50255-6)
control rods for, schematics and description of circuitry for sequential group movement of, 23:43039 (DOCKET-50255-19)
control rods for, testing and performance evaluation for, 22:37415 (DOCKET-50255-8)
control systems and instrumentation for, 22:37414 (DOCKET-50255-6)
control systems and instrumentation for, final safety analysis of, 23:15540 (DOCKET-50255-13)
control systems and instrumentation for, final safety analysis of, 23:13358 (DOCKET-50255-11)
control systems and instrumentation for, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
control systems of, description of, 24:16088
coolant flow distribution in, safety analysis of pump loss on, 22:37416 (DOCKET-50255-9)
coolant loss accident in, safety analysis of, 25:44043 (DOCKET-50255-48)
coolant loss accidents in, effects of piping break size on, 22:37413 (DOCKET-50255-5)
coolant loss accidents in, evaluation of effects of hydrogen accumulation in containment following, 23:43039 (DOCKET-50255-19)
coolant loss accidents in, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
coolant pumps for, effects of simultaneous loss of power to, 22:42184 (DOCKET-50255-10)
cooling system for, description of, 24:16088
cooling system for, description of unintentional pressure reduction in, 25:56910 (DOCKET-50255-53)
cooling system for, design modifications for cooling towers in condenser, 25:20637 (DOCKET-50255-33)
cooling system for, final safety analysis of, 23:19419 (DOCKET-50255-14)
cooling system for, final safety analysis of, 23:15540 (DOCKET-50255-13)
cooling system for, mathematical models used in estimating fission product and corrosion product activities in primary, 23:43039 (DOCKET-50255-19)
cooling system for, preliminary safety analysis of, 22:37409 (DOCKET-50255-1)
cooling system for, resin release in deborating demineralizer of, 24:40844 (DOCKET-50255-27)
core for, description of, 24:16088
core for, effects of blowdown on support structure for, 22:37414 (DOCKET-50255-6)
core for, final safety analysis of design of, 23:19419 (DOCKET-50255-14)
core for, preliminary safety analysis of design of, 22:37409 (DOCKET-50255-1)
core for, results of mockup tests for, 23:43039 (DOCKET-50255-19)
design bases for, 23:13359 (DOCKET-50255-12)
design basis accidents in, determination of dose rates for, 22:37413 (DOCKET-50255-5)
design features of, 25:18041
design parameters for, 22:22712 (STI/PUB-174)
effluents from, effects on environment of chemical, radioactive, and thermal, 25:31494 (DOCKET-50255-38)
effluents from, effects on environment of chemical, radioactive, and thermal, 24:52831 (DOCKET-50255-29)
electrical supply for, safety analysis of, 22:37412 (DOCKET-50255-4)
electrical systems for, final safety analysis of, 23:13358 (DOCKET-50255-11)
electrical systems for, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
emergency and auxiliary systems for, final safety analysis of, 23:13358 (DOCKET-50255-11)
emergency and auxiliary systems for, final safety analysis of, 23:15540 (DOCKET-50255-13)
emergency and auxiliary systems for, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
emergency core cooling and power systems activation circuits for, final safety analysis of, 24:6997 (DOCKET-50255-21)
emergency core cooling system for, malfunction of motor operated safety injection valves for, 25:41293 (DOCKET-50255-43)
emergency core cooling system for, performance requirements for, 25:44043 (DOCKET-50255-48)
Emergency Core Cooling Systems for, design parameters and analyses for, 23:4274 (ORNL-NSIC-24)
emergency core cooling systems for, tabulation of changes in material for equipment and components for, 24:13465 (DOCKET-50255-23)
emergency hydrogen venting and iodine removal systems for, preliminary safety analysis of, 24:6998 (DOCKET-50255-22)
emergency plans for, detailed, 23:34856 (DOCKET-50255-15)
emergency power supply for, evaluation of diesel loadings and capabilities for, 23:34856 (DOCKET-50255-15)
engineered safeguards for, analysis of instrumentation for, 24:3992 (ORNL-NSIC-29)
engineered safeguards for, final safety analysis of, 23:19419 (DOCKET-50255-14)
engineered safeguards for, logic diagrams for and evaluations of instrumentation for, 22:37413 (DOCKET-50255-5)
engineered safeguards for, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
fuel assemblies for, analysis of use of Zircaloy-4 spacer springs in, 23:40259 (DOCKET-50255-18)

  fuel handling and storage facilities for, description of, 24:16088
  heat exchanger for, tube failure in component cooling water, 25:36930 (DOCKET-50255-42)
  heat flux data for, tabulation of critical, 22:42184 (DOCKET-50255-10)
  instrumentation for, description and performance limits of coolant loss accident monitoring, 25:8044
  instrumentation for, fire damage incident in air dryer system for, 25:46176 (DOCKET-50255-50)
  instrumentation of, description of, 24:16088
  insurance agreement for, 24:16033 (DOCKET-50255-24)
  medical facilities for, description of on-site and local, 23:34856 (DOCKET-50255-15)
  operation of, final safety analysis of initial tests and, 23:13358 (DOCKET-50255-11)
  operation of, interim provisional license for, 25:23168 (DOCKET-50255-35)
  operations incident for, inspection and repair procedures for dropped control rod drive, 25:7967 (DOCKET-50255-31)
  operations incident of February 2 to February 14, 1971, demineralizer resin chloride release to coolant during, 25:25877 (DOCKET-50255-36)
  operations incident of May 7, 1971, primary cooling system leak from temporary test instrument failure, 25:34220 (DOCKET-50255-40)
  operations incident of May 8, 1971, failure of suction deflector cap screw of primary coolant pump, 25:34219 (DOCKET-50255-39)
  owners of, 1969 financial data on, 24:16033 (DOCKET-50255-24)
  owners of, financial statements of, 25:36929 (DOCKET-50255-41)
  personnel for, description of organization and training of, 23:34857 (DOCKET-50255-16)
  personnel for, training philosophy for, 25:39135 (CONF-710416-, Paper 2)
  personnel of, qualifications for startup, 24:1938 (DOCKET-50255-20)
  personnel staffing for, requirements for, 23:40259 (DOCKET-50255-18)
  pipes for, analysis of effects of rupture of service water, 23:34857 (DOCKET-50255-16)
  pressure vessel for, description of mobile heavy-lift equipment and techniques for transport of, 23:23837
  pressure vessel for, effects of thermal shield removal on NDTT of, 23:40258 (DOCKET-50255-17)
  pressure vessel for, evaluation of effects of thermal shield removal on, 23:43039 (DOCKET-50255-19)
  pumps of, failure of mechanical seal unit of primary coolant, 25:50928 (DOCKET-50255-52)
  quality assurance program for, 23:13359 (DOCKET-50255-12)
  quality assurance program for, detailed, 23:34856 (DOCKET-50255-15)
  radiation monitoring system for, description of stack, 23:34857 (DOCKET-50255-16)
  radiation monitors for, location range, sensitivity and set-points for area, 23:40259 (DOCKET-50255-18)
  radiation protection and radioactive waste handling at, final safety analysis of, 23:13358 (DOCKET-50255-11)
  radiation protection and waste handling at, final safety analysis of, 23:15540 (DOCKET-50255-13)
  radioactive waste disposal system for, design modifications for zero-release liquid, 25:20637 (DOCKET-50255-33)
  radioactive waste disposal system for, revised technical specifications for liquid, 25:41329 (DOCKET-50255-45)
  radioactive waste handling and radiation protection at, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
  radioisotopes for, correction in possession limit for cesium-137, 25:28607 (DOCKET-50255-37)
  safety analyses of, detailed final, 23:13359 (DOCKET-50255-12)
  safety evaluation of, Division of Compliance, 24:33207 (DOCKET-50255-26)
  safety evaluation of, Division of Reactor Licensing, 25:41331 (DOCKET-50255-47)
  safety evaluation of, Division of Reactor Licensing, 25:41330 (DOCKET-50255-46)
  safety evaluation of, Division of Reactor Licensing, 24:33206 (DOCKET-50255-25)
  safety evaluation of, Division of Reactor Licensing, 25:44044 (DOCKET-50255-49)
  safety injection system for, design revisions for, 22:37415 (DOCKET-50255-8)
  safety injection system for, flow diagram for, 22:39745 (DOCKET-50255-7)
  safety instrumentation for, results of prototype testing for post-accident environment effects on, 23:34856 (DOCKET-50255-15)
  shutdown systems for, analyses of logic and instruments in, 24:3992 (ORNL-NSIC-29)
  site emergency plan for, 25:41328 (DOCKET-50255-44)
  site for, details of preoperational environmental monitoring program for, 23:43039 (DOCKET-50255-19)
  site for, environmental radiation survey during June 1968 to March 1971, 25:50978 (DOCKET-50255-51)
  site for, final safety analysis of, 23:19419 (DOCKET-50255-14)
  site for, final safety analysis of, 23:15540 (DOCKET-50255-13)
  site for, Lake Michigan hydrology and liquid waste dilution factors near, 23:43039 (DOCKET-50255-19)
  site for, meteorologic data and analyses for, 23:34857 (DOCKET-50255-16)
  site for, meteorological data for, 23:13359 (DOCKET-50255-12)
  site for, meteorology and foundation data on, 22:37411 (DOCKET-50255-3)
  site for, preliminary safety analysis of, 22:37409 (DOCKET-50255-1)
  site for, preparation and characteristics of, 24:16088
  site for, safety analysis of, 24:52831 (DOCKET-50255-29)
  steam and condensate system for, revised flow diagram for, 22:37415 (DOCKET-50255-8)
  steam and power conversion system for, preliminary safety analysis of, 22:37410 (DOCKET-50255-2)
  steam generators for, feedwater availability for, 22:39745 (DOCKET-50255-7)
  technical specifications for, 25:23168 (DOCKET-50255-35)
  testing of, objectives and acceptance criteria for preoperational and hot functional, 23:43039 (DOCKET-50255-19)
  thermal effluent effects on Lake Michigan, 24:33228
  thermal effluents from, effects on environment of, 25:50978 (DOCKET-50255-51)
  thermal effluents from, effects on Lake Michigan of, 24:16088
  valves for, effects of air losses on air-operated, 23:34856 (DOCKET-50255-15)
  waste disposal in Lake Michigan from, hydrology and dilution factors affecting liquid, 23:43039 (DOCKET-50255-19)
PALLADIUM
  abundance in Apollo 11 lunar rocks, (E), 24:21528
  abundance in L chondrites, neutron-activation determination of, 25:32871
  abundance in photosphere, (E), 22:23934
  alpha reactions at 30 to 80 MeV, cross sections for production of K x rays by, (E), 25:12488
  alpha reactions at 30 to 80 MeV, K-shell ionization cross sections for, (E), 25:9978(R) (ORO-3398-26)
  alpha-particle stopping at 400 keV to 2 MeV in, cross sections for, (E), 24:19720
  alpha-particle stopping cross sections at 0.4 to 2 MeV, (E), 24:12633
  analysis for copper, gold, iridium, platinum, and silver by neutron activation and radiochemical separation, 23:13686
  analysis for hydrogen, spectral-isotopic method for, 22:19534
  analysis for silver by neutron activation methods, 22:33261
  analysis for trace amounts of impurities, spectrochemical methods for, 24:7409
  analysis of fission product, for γ sources, 25:51385 (BNWL-CC-2239)
  analysis of organic complexes and salts of, for carbon, halogens, hydrogen, and palladium, 24:38738
  analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
  analysis of, for trace impurities by neutron activation methods, 21:10272
  atomic weight of, based on carbon-12 = 12, 22:42698
  beta backscattering by, geometry effects on counting, (E/T), 21:23008
  book: Analytical Chemistry of the Noble Metals, 24:7405
  book: Guide to Uncommon Metals, 21:34854
  book: Palladium Alloys, 23:24889
  book: The Palladium—Hydrogen System, 21:34286
  book: Uncommon Metals, 22:10981
  boron-12 spin-lattice relaxation times implanted in, (E), 24:52459
  brazing of, with refractory alloys and metals, exothermic, 21:9116
  carbon-12 reactions (C-12,3n) with, with delayed proton emission following tellurium-111 decay, (E), 22:1651 (JINR-P6-3494)
  catalysts of, testing for boiling water reactors of hydrogen—oxygen recombiner, 23:2025
  chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
  chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
  chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
  chromatographic behavior in hydrochloric acid—thiocyanate mixture on Amberlite LA-2, 25:18337
  chromatographic behavior of, effects of trioctylamine in halide solutions on, 21:5880
  chromatographic behavior of, reversed-phase extraction, 25:37478
  chromatographic behavior on thin layers of cellulose and silica gel impregnated with tributyl phosphate, 22:23115
  cobalt-57 electrodeposition on, for use as Moessbauer source, 21:39140
  complexes with 2,4-pentanedione, radiation effects on, ESR study of γ, 24:38978
  complexes with 2,4-pentanedione, separation of, from fission and spallation products by solvent extraction using benzene, 22:10339
  complexes with 3-(4-antipyrinylazo)-2,4-pentanedione, 24:11439
  complexes with 3a,4,7,7a-tetrahydro-4,7-methanoindene, deuterium exchange in, NMR spectral studies on, 24:18945
  complexes with 8-quinolinol, solvent extraction and polarographic studies on, 22:50930
  complexes with 8-quinolinol, structure of, NMR spectral studies on, 25:4081
  complexes with Arsenazo III, potentiometric and spectrophotometric studies of, 22:37739
  complexes with bromo- or chlorobisacetylacetonatoplatinum, preparation and properties of, 21:3044
  complexes with β-ketoenols, preparation and properties of, review of, 22:2061
  complexes with Chromotrope 2R, properties of, 23:9386
  complexes with dialkyldioximes, crystal structure of, 22:12161(R) (COO-582-14)
  complexes with dimethylglyoxime, spectra of hydroxyl stretching frequencies in, infrared, 21:40772 (IS-1600, Paper 3)
  complexes with mesityl oxide, preparation of, 21:159
  complexes with some 3-cyanoformazans, preparation and properties of, 25:20968
  complexes with tetraethyldiethylenetriamine and thiocyanates, reactions of, with bromine, effects of acetonitrile on kinetics of isomerization in, 21:35913(R) (COO-1087-104)
  complexes with TTA, fractional sublimation of, 22:35911
  complexes with vic-dioximes, hydrogen bonding in, structural studies of, 25:41646 (IS-T-455)
  complexes, radiolysis of solutions of, pulse, 22:25433
  compounds of, mixed valence chemistry of, review on, 24:7440
  corrosion by acids, bases, chlorine, and oxygen, analytical significance of, 24:8066
  corrosion of plate, by fused sodium fluoride—uranium tetrafluoride eutectic, 22:15139 (AWRE-R-3/63)
  crystal structure and purity of floating zone melted, 23:12288
  crystal structure of, calculation of amplitude of thermal vibrations at melting point for determination of, 24:1044
  crystal structure vacancy formation and migration energies in, effects of Debye temperature on, 22:17119
  Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
  deposition of films of, on Vycor glass, 22:35775(R) (NYO-1158-25)
  determination as impurity in amorphous boron, spectrographic, 22:16429
  determination as impurity in gallium arsenide, activation, 22:1969
  determination as impurity in thorium and thorium dioxide, spectrographic, 22:1994
  determination as impurity in uranium and its oxides, carrier-distillation method for spectrographic, 21:23823 (PEL-121(Vol.5), pp 552-60)
  determination as inclusion in irradiated plutonium dioxide by electron microprobe methods, 24:41172 (AERE-R-6310)
  determination as palladium using iodine-131, radiometric, 22:40026
  determination as thiosalicylamide complex by gravimetry and spectrophotometry, 24:2111
  determination as trace impurity in sodium chloride, spectrographic, 21:35837 (BARC-284)
  determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
  determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
  determination by atomic absorption in nitrous oxide—acetylene flame, effects of ammonium fluoride on, 24:38739
  determination by atomic absorption spectrometry, 24:38736
  determination by atomic absorption spectrophotometry using lens masks, 25:15495
  determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
  determination by atomic absorption, optimum conditions for, 24:2106
  determination by electroanalytical methods, review of, 23:17334
  determination by emission of positive secondary ions from ion bombardment, mass-spectrometric, 21:27908
  determination by mass spectrometry using 6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedione, 23:34975
  determination by neutron activation, 25:44343
  determination by neutron activation and scintillation counting of short-lived isotopes, 25:48(T) (CSIRO-Trans-10089)
  determination by neutron activation methods, 24:2158
  determination by neutron activation methods using characteristic x rays, 23:13677
  determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
  determination by neutron activation, sensitivity of, 23:35037
  determination by nuclear resonance scattering of gamma rays, 25:37327
  determination by oxidation with hypochlorite, and amperometric titration, 22:1966 (UCRL-17824)
  determination by photon activation, sensitivity for, 23:15826
  determination by radial paper chromatography and spectrophotometry, 25:35
  determination by spectrophotometry using 3-hydroxy-1,3-diphenyltriazine, 24:13747
  determination by thin-layer chromatography using chelating celluloses and sulfurated silica gel, 25:48586
  determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
  determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
  determination in alloys and metals, spectrochemical methods for, 24:7409
  determination in alloys by neutron activation and radiochemical separation, 24:160
  determination in aluminum alloy powder compacts, 21:30345(R) (IN-1063)
  determination in aqueous solution, evaluation of 1-[(bromo-2-pyridyl)azo]-2-naphthol for use in spectrophotometric, 23:24165
  determination in biological materials and organic compounds by neutron activation and radiochemical separation, 25:15531
  determination in biological materials, platinum, and rocks by neutron activation and radiochemical separation, 24:36184
  determination in carbon powder, improvement in sensitivity of spectrographic, 25:37298

determination in carbonaceous and enstatite chondrites, activation, 22:22
determination in chondritic meteorites by neutron activation methods, 21:25802
determination in copper—nickel concentrates and ores by neutron activation, 23:26205
determination in EBR-II fuels and fissium, development of remotely controlled atomic absorption spectrophotometry system for, 24:36153
determination in fission product mixtures by ion exchange and polarography or β counting, 25:54449
determination in fissium—uranium alloy by x-ray spectrometry, 24:31225 (LA-4438)
determination in geochemical samples by neutron activation, 25:54484
determination in geological sample by neutron activation and radiochemical separations, 25:54485
determination in high-burnup plutonium dioxide fuel by isotope dilution mass spectrometry, 25:18356 (KR-140)
determination in high-purity platinum by neutron activation methods, 22:7992(R) (NBS-TN-428)
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in hydrogenation catalysts by neutron activation and γ spectrometry, 25:23540
determination in iron meteorites by neutron activation methods, 21:25801
determination in iron meteorites by neutron activation methods, 22:3 (AERE-R-5254)
determination in irradiated cerium dioxide—uranium dioxide fuel, electron microprobe method for, 24:11442
determination in irradiated uranium dioxide fuel pins, electron probe, 22:25321 (ANL-7375, pp 95-134)
determination in lead beads, matte, and platinum-bearing ores by neutron activation and γ spectrometry, 25:54487
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in liquid sodium by γ spectrometry, 24:175 (ANL-7575, pp 77-129)
determination in lunar materials and meteorites, mass spectrometric method for, 24:50347(R) (NYO-844-81)
determination in meteorites, silicate rocks, and sulfide ores by neutron activation and radiochemical separation, 23:11467
determination in minerals by spectroscopy, 24:41198
determination in molybdenum by neutron activation and radiochemical separation, 24:18920
determination in nonferrous metallurgical materials, review of methods for, 21:21903
determination in nuclear materials, 21:21870
determination in organic complexes and salts of palladium or praseodymium, 24:38738
determination in palladium by isotope dilution and spark source mass spectrometry, 23:28714
determination in platinum by neutron activation methods, 22:33276
determination in platinum, activation, 21:40772 (IS-1600, Paper 3)
determination in platinum, use of x-ray detector in activation analysis, 24:41655 (IRI-133-70-1)
determination in plutonium and uranium waste solutions after liquid-liquid extraction using Aliquat-336 by flame photometry, 22:8024
determination in presence of iridium, platinum, and ruthenium by oscillopolarography using 2-methylpyridine, 23:28706
determination in presence of other ions and in ternary mixtures with metals by spectrophotometry using 1-(2-carboxy-4-sulfonatophenyl)-3-hydroxy-3-phenyltriazene, 25:18342
determination in pure materials by neutron activation, 23:26206
determination in pure metals by spectrography or photometry after selective enrichment on silver cyanide, 24:4224
determination in Purex waste solutions by atomic absorption spectrophotometry, 21:30348 (ISO-SA-37)
determination in rhodium powder by neutron activation and radiochemical separation, 23:13687
determination in rocks by neutron activation analysis, 21:32121
determination in selenium by neutron activation and radiochemical separations, 23:35050
determination in selenium by neutron activation and radiochemical separation, 24:5643
determination in tellurium, spectrochemical, 25:31819
determination in thallium by neutron activation and solvent extraction separation, 23:4535
determination in titanium alloys, x-ray fluorescence method for, 25:2097
determination in trichloromethylsilane by activation—extraction method, 21:35854
determination in uranium alloys by atomic absorption spectrometry, 23:13628
determination in various materials by spectrographic method, 22:48810 (AERE-R-5799)
determination in various materials by x-ray fluorescence spectroscopy after precipitation, 22:25285
determination of divalent, by oxidation with hypochlorite, amperometric titrimetric, 22:37718 (UCRL-17989, pp 181-252)
determination of trace amounts of, by high-current impulse argon arc method, spectrographic, 22:40012
determination of trace amounts of, by inverse voltammetry, 24:41203
determination of trace amounts of, by neutron activation and tracer methods, 21:10272
determination of trace amounts of, in biological materials, platinum, and rocks by isotope dilution, 25:28981
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in lunar rocks and soil from Apollo 11 by mass spectrography, 24:20733
determination of trace amounts of, in lunar rocks from Apollo 11 by mass spectrometric isotope dilution and/or neutron activation, 24:20735
determination of trace amounts of, in presence of other elements, direct-current arc spectrochemical method for, 24:26977
determination of trace amounts of, in silver alloys and synthetic metallic mixtures by neutron activation and radiochemical separation, 24:13785
determination of trace amounts of, in standard rocks by neutron activation following fire-assay concentration, 25:29022
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in meteorites by neutron activation methods, 21:4448
determination of, in precious metal scraps, activation, 21:5834 (IA-1082, pp 77-202)
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, review on methods and reagents for gravimetric, 24:7406
determination of, review on methods and reagents for spectrophotometric, 24:7408
determination of, review on methods and reagents for volumetric, 24:7407
determination of, review on methods for, 24:7492
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination simultaneously with platinum and rhodium in crude platinum samples by neutron activation and gamma spectrometry, 23:40594
determination using 1,1'-(3,3'-disulfonato-4,4'-biphenylene)-bis-(3-hydroxy-3-phenyltriazene), spectrophotometric, 24:26930
determination using 4,4-acetalidine-bis(3-methylisoxazolin-5-one), colorimetric, 22:27554
determination using azo compounds, photometric, 25:18347
determination using hot hollow cathode lamp, atomic fluorescence flame spectrometric, 21:45048
determination using hydroxycoumarins, 23:2190
determination using pyridine-2-aldoxime, gravimetric, 25:2072
deuterium exchange with cyclohexane over evaporated films of, 21:15911
deuteron reactions (d,np) at 53.8 MeV, neutron yields from, (E), 21:38371
diffusion and sorption of gases in, determination using fluorescent and Moessbauer methods, 23:22564
diffusion in aluminum at 400 to 630°C, 22:10967
diffusion in fcc, effects of bound divacancies on isotope effects for self-, 23:14337
diffusion of carbon in solid solutions of, 25:55479
diffusion of carbon in, electronic mechanisms in thermal, 25:2666 (NP-18468)
diffusion of deuterium and hydrogen in, at -60 to 200°C, comparison of, 25:41816
diffusion of deuterium and hydrogen through membranes of, effects of carbon dioxide and oxygen on, 24:20744 (CEA-R-3943)
diffusion of hydrogen and deuterium in, (T), 21:14984
diffusion of hydrogen in, electronic mechanisms in thermal, 25:2666 (NP-18468)
diffusion of tungsten in, 21:41549
dissolution of, by ac electrolysis, effects of variables on, 21:10343
distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
distribution coefficients for, in hydrochloric acid solution on Amberlite CG4B, 22:40192
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution on thin-layer DEAE-cellulose in organic solvent—thiocyanic acid mixture, chromatographic, 25:6417
effects as catalyst on hydrogenation of unsaturated carbonyl compounds, 24:31313
effects of 5 percent additions of, on low-temperature thermal capacity of zirconium, 23:8161 (ORNL-4370, pp 21-5)
effects of combination of, with thoria on preparation of uranium dioxide sol, catalytic, 22:10201(P)
effects of evaporated films of, on exchange reactions between deuterium and cyclopropane or methylcyclopropane, 21:45105
effects of film coatings of, on oxidation of zirconium, 22:21667
effects of films of, on deuterium exchange with hydrogen in certain butylbenzenes and butyltoluenes, 21:12418
effects of films of, on isotope exchange of polymethylcyclopentanone with deuterium, 21:60
effects of wires of, on deuterium exchange with hydrogen in acidic solutions, mechanism for, 21:40846
effects of, on deuteration and deuterogenation of naphthalene and octalins, 21:12424
effects of, on hydrogenation of propene with deuterium, isotopic exchange in catalytic, 21:5869
effects of, on radioinduced conversion of methanol and cyclohexane, 21:12476
effects of, on reaction between deuterium and anisole, 21:10351
effects on activated sintering of tungsten, 21:39629
effects on addition and exchange reactions of ethylene with hydrogen and tritium in closed recycling apparatus, 23:28829
effects on colorimetric determination of gold, 25:34521
effects on compleximetric determination of bismuth in trichloroacetic acid using Arsenazo III and EDTA, 24:26935
effects on corrosion of titanium by hot brine and primary water in nuclear reactors, 23:48345
effects on corrosion of titanium by saline water, 22:26029 (ORNL-4229, pp 71-83)
effects on critical shear stress of monocrystalline niobium at 295 to 1050°K, 25:32718
effects on crystal structure of cadmium—silver solid solutions, 24:25728
effects on crystallization of tungsten at 950 to 1200°C, 23:48443
effects on determination of fluorine in organic compounds and metal-organic compounds by neutron activation methods, 22:14439
effects on determination of tellurium in copper and nickel by polarography, 23:45193
effects on determination of thallium, 25:20926
effects on determination of trace amounts of antimony by isotopic exchange in organic phase, 25:2106
effects on determination of trace amounts of rhenium by thiocyanate—stannous chloride method, 25:2102
effects on deuterium exchange in propene, catalytic, 25:8258
effects on deuterium exchange reactions with organic compounds, 22:35819
effects on deuterium exchange with cycloalkanes, mechanism of catalytic, 23:13709
effects on direct titrimetric determination of molybdenum using ceric sulfate, 22:4025
effects on elasticity and strength of titanium at -196 to 800°C, 21:45918
effects on fluorescence determination of copper, 25:28928
effects on gravimetric determination of mercury using 2-aminobenzothiazole, 25:34520
effects on isotopic exchange between bicyclo[3.3.1]-nonane and deuterium, 21:85
effects on isotopic exchange between cyclopentane and deuterium, 21:84
effects on photometric determination of antimony following solvent extraction using TBP, 25:34512
effects on photometric determination of molybdenum as extracted dithiol complexes, 24:38717
effects on properties and sintering of tungsten at 1000 to 2000°C, 25:55453
effects on reactions of benzene with hydrogen, catalytic, 23:11505
effects on separation of molybdenum from rhenium by solvent extraction using isopentyl acetate, 25:21140
effects on separation of zirconium from plutonium by solvent extraction, 21:40763 (LA-3743)
effects on solvent extraction of titanium from hydrochloric acid using TBP and magnesium chloride as salting-out agent, 23:24281
effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
effects on spectrophotometric determination of neptunium, 23:13623 (LA-4061)
effects on spectrophotometric determination of ruthenium, 25:31809
effects on spectrophotometric determination of titanium using sulfosalicylic acid, 22:16443
effects on spectrophotometric determination of trace amounts of ruthenium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:22975
effects on spectrophotometric determination of zirconium using bromopyrogallol red, 23:49713
effects on tensile properties of niobium, 21:45902
effects on titrimetric determination of lanthanum using sodium rhodizonate and ceric sulfate, 22:27555
effects on tungsten sintering at 1000 to 1200°C, 24:23448
electric conductivity and Hall constants of thin evaporated films of, 23:14920
electric conductivity of, as function of bombarding electron energy, 21:13643
electric conductivity of, at 1.4 to 60°K, effects of gadolinium and neodymium impurities on, 21:41575 (IS-1600, Paper 5)
electromigration of deuterium and hydrogen in, at 250 to 350°C, 23:7511
electron beam scattering by single-crystal surface of, properties of specular 10- to 500-eV, (E), 22:43937
electron energy-loss spectra in, 25:964
electron energy-loss spectrum in, (E), 23:6886
exchange with metal sulfides in cellulose, 24:33766
fission fragment average range in, effects of crystal structure on uranium-235, 23:48495 (CEA-CONF-1319)
fission fragment range in, effects of crystal texture on, 24:49249
fluorescence in hydrochloric acid medium at liquid-nitrogen temperature, 23:9376
friction and wear of, sliding against copper and iron rings under vacuum, 25:11413
gyromagnetic ratio of paramagnetic, (E), 25:40816
heating of films of, by electron microscope beam, (E/T), 25:5163
helium implantations in, scanning electron microscopic examinations of high-concentration, 25:37985
helium release from ion-implanted, concentration dependence of, 25:33418
helium-ion reactions at 20 keV with, emission from excited diatomic helium molecules from, (E), 23:27332
hyperfine magnetic field at nuclei in iron, measurement using perturbed angular correlation technique, (E), 22:46262
iodine sorption on surfaces of, effects of hydrogen and iodide ion concentration on, 22:25431
ion beam effects on surface structure of, as function of angle of incidence, (E), 21:42168
ion emission by argon-ion-bombarded, secondary, 25:38136
ion exchange behavior in ethanol—hydrochloric acid, 23:19837
iron-57 lattice dynamics in, from Moessbauer fraction measurements, 22:46212
iron-57 Moessbauer effect in, 24:19996
iron-57 Moessbauer fraction in, calculation of pressure dependence of, 24:51855

joining of, with porous tungsten, methods for, 21:9117
lattice vibrational spectra and thermal capacities of, calculations, 25:43490
magnetic fields in ferromagnetic hosts at nuclei of, internal, (E), 21:44148 (COO-7-0422)
mechanical properties and performance of aluminum oxide-supported, boiling reactor recombiner catalysts of, analysis of, 23:4209
neutron absorption resonance integrals for, (E), 21:38308
neutron capture at 10 to 150 keV, cross section for, (E), 22:37340(R) (EANDC(E)-89(U))
neutron capture at 10 to 150 keV, cross sections and p- and d-wave strength functions for, (E/T), 23:44876
neutron capture cross sections at 10 to 150 keV, (E), 21:17353 (KFK-455)
neutron capture cross sections at 10 to 150 keV, (E), 21:35437(R) (EANDC(E)-76(U))
neutron capture resonance integrals for, measurement using cadmium ratio method, (E), 21:34011
neutron differential elastic and inelastic scattering cross sections at 0.3 to 1.5 MeV, angular distributions for, (E), 22:20578 (WASH-1079)
neutron elastic scattering at 0.2 to 1.5 MeV, cross section for, (E), 23:49315 (ANL-7410, pp 1-46)
neutron elastic scattering from, measurements of fast, 22:32959 (ANL-7310, pp 1-30)
neutron inelastic scattering by, cold, (T), 21:38352
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron resonance integrals for, 21:18301(R) (IN-1048)
neutron scattering by, lattice vibrational spectra and physical characteristics of, 25:36319
neutron strength functions for, p- and d-wave, (E), 22:37340(R) (EANDC(E)-89(U))
neutron total cross section at 0.005 to 10 eV, measurement using time-of-flight method, (E), 21:44724
neutron total cross section at 14 MeV, (E), 22:35338
neutron total cross section up to 1.5 MeV, (E), 25:43884 (ANL-7710, pp 1-52)
neutron total cross sections at 2 to 10 MeV, (E), 22:11936
neutron total cross sections at 2 to 10 MeV, (E), 21:11982 (COO-1573-6)
optical constants of, determination by ellipsometry in ultrahigh vacuum, 22:15569 (ORNL-TM-2114)
optical properties of, (E), 25:19758 (ORNL-4584, pp 74-86)
oxidation at 25 to 750°C, effects of atomic oxygen on, 23:51003
oxidation by carbon dioxide, kinetics and thermodynamics of, 22:17080
palladium-105 spin—lattice relaxation time in, NMR study of, (E), 22:15627
photoelectric measurements for, (E), 23:10432 (ORNL-4316, pp 161-229)
photoelectric work function of, (E), 25:17299
photon reactions (γ,n) at 22 MeV, neutron angular distributions from, (E), 22:44656
photon reactions (γ,t) at 36.2 and 49.2 MeV, triton yields from, (E), 21:15536
photon reactions (γ,t) with, cross sections for, (E), 22:53095 (BMwF-FBK-68-11)
photon reactions (γ,t) with, yields for, (E/T), 23:23625 (NP-17768)
photon reactions at 662 keV with, photoelectric cross sections for, (E), 25:2904
precipitation as salicyladoximate, 21:19629
precipitation from aqueous sulfuric acid solutions by salicylaldoximate, 22:33359
preparation as catalyzer for tritium counter, 21:32114
preparation of deuterated targets of, for neutron production, 22:11746 (CEA-R-3065)
preparation of radiation targets of, by argon ion sputtering, 25:59637 (CONF-711002-, pp 109-15)
preparation of uniform-size particles of, 23:35132(R) (NYO-1158-32)
production from nuclear fission waste, factors affecting large-scale, 23:596
production from spent fuels, 23:28979
production in power reactors, economic aspects of, 22:119
production of particles of controlled size of, 22:35775(R) (NYO-1158-25)
properties for use as encapsulating material for californium-252 sources for neutron capture gamma-ray spectroscopy, 25:4772
properties for use as membrane for separation of hydrogen from Dragon reactor coolant, 24:41580 (NP-9743)
properties for use as temperature monitor at 780 to 1555°C, 25:37945 (JUL-680-RB)
properties of atomic, calculation using statistical model, 25:7187
properties of fission-induced, for use in industry, 24:36920
properties of, effects of spin fluctuations on, (T), 22:3220
properties of, mechanical and physical, 21:43616
proton reactions at 550 MeV, cross sections for production of phosphorus-32 and phosphorus-33 in, (E), 24:52510
proton reactions with, in close contact with chromium carbonyl, reactions of recoil molybdenum from, 25:15717
proton scattering by foils of, implanted with helium-4 ions, 25:37260(R) (UCRL-50006-71)
purification of, recovered from aged Purex waste, 23:33245 (ARH-911)
radiant energy spectral absorption and reflection of bulk, (T), 21:11473 (NASA-CR-693)
radiation damage in, mechanism of lattice parameter changes from 3-MeV electron, (E/T), 23:27720
radiation effects on catalytic activity of, in hydrogenation of butynediol, neutron, 25:57448
radiation effects on corrosion of electrodes of, in acid solutions for use in electrochemical studies, γ, 22:37775 (BNL-50082, pp 40-78)
radiation effects on electric conductivity of, at low temperature, 21:11208 (ANL-7155, pp 167-289)
radiation effects on low-temperature electric conductivity of, neutron, 21:31052 (ANL-7185)
radiation effects on serrated yielding in wires of hydrogenated and hydrogen-free, neutron, 24:14861
radioinduced damage in, electron, 1- to 3-MeV electron, 21:13643
radioinduced electron emission from, low-energy electron and γ, (E), 25:22617
radioinduced preparation from aqueous salt solutions, electron, 25:2237 (N-70-32826)
reactions of fission-product, with uranium carbide fuels, 25:40103(T) (EURFNR-851)
reactions of fission-product, with uranium carbide fuels, 25:13764 (KFK-1260)
reactions of simulated fission product, with cladding and uranium dioxide at high temperature, 24:3047 (KFK-979)
reactions of simulated fission product, with fuel cladding and uranium dioxide at high temperatures, 24:19519(T) (EURFNR-685)
reactions with 8-aminoquinoline, effects of acetic acid, ammonia, hydrochloric acid, and sodium hydroxide solutions on, 24:16539
reactions with hydrogen, effects of, on mechanical properties, 21:32897
reactions with lithium hydrides under hydrogen at 800°C, 23:24182
separation and purification of fission product, from irradiated fuels by ion exchange, 25:48588
separation by ion exchange using Alamine 336 in aqueous thiocyanate solutions, 25:4137 (IS-T-377)
separation by thin-layer chromatography using slightly basic ion exchanger, effects of organic solvents on, 24:16661
separation from acetone—hydrochloric acid solutions by ion exchange using Bio-Rad, distribution coefficients for, 25:41899
separation from acid solutions by precipitation using quaternary ammonium bases, 24:27219
separation from acid solutions by solvent extraction using alkyl sulfoxides, 24:16485 (IS-2100, Sect. C)
separation from acidic aqueous solutions by solvent extraction using Alamine 336 thiocyanate, 24:16485 (IS-2100, Sect. C)
separation from aged Purex wastes by anion exchange, 23:33244 (ARH-733)
separation from alkaline waste from Purex Process using activated charcoal, 25:15720 (ARH-1552)
separation from aqueous nitrate or sulfate solutions by solvent extraction using amines, 24:270 (ORNL-4422, pp 252-71)
separation from aqueous solution by reversed-phase chromatography using bis(2-ethylhexyl) or 2-ethylhexyl phosphate, 23:35268
separation from aqueous solutions by ion exchange on metal sulfides in cellulose, 24:33766
separation from aqueous solutions by ion exchange on zirconium tellurate, tracer studies on, 25:41915
separation from aqueous solutions by sorption on hydrated ferric oxide, 24:33774(P)
separation from aqueous solutions by spontaneous electrodeposition on metallic mercury, 21:36093
separation from cadmium, indium, molybdenum, niobium, and rhodium by gas chromatography using aluminum chloride eluent, 25:10666 (JINR-P6-5410)
separation from cobalt, cation-exchange method for, 21:32252
separation from fission and spallation products by solvent extraction using benzene and 2,4-pentanedione, 22:10339
separation from fission product mixtures, 24:29308(R) (BMBW-FBK-70-4)
separation from fission products by automatic ion exchange chromatography, design and performance of equipment for, 25:10659 (CEA-N-1267)
separation from fission products, controlled potential mercury cathode electrolysis method for, 24:2264 (CEA-R-3788)
separation from gold and platinum by paper chromatography, 22:4248
separation from gold and platinum, review on methods for, 24:7492
separation from hydrochloric acid by solvent extraction using triisooctylamine, 21:28074
separation from iridium, platinum, rhodium, and ruthenium by precipitation using ammonium thiocyanate and α-benzyldioxime, 25:37475
separation from irradiated fuels by ion exchange, 23:47582 (BNWL-SA-1945)
separation from metals by reversed-phase column chromatography or solvent extraction using sulfoxides, 23:43382 (IS-T-293)
separation from metals by thin-layer chromatography using DEAE-cellulose in binary solvent systems, 24:22762
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
separation from other metal ions on titanium tungstate papers by electrochromatography, 25:54744
separation from other metals by chromatography on stannic phosphate and stannic tungstate papers, 22:4248
separation from other metals by radial paper chromatography, 25:35
separation from other metals using inorganic ion exchange papers, 25:41909
separation from other platinum metals by paper chromatography, 24:298
separation from other platinum metals by paper electrophoresis using EDTA as a background electrolyte, 24:283
separation from plutonium and uranium waste solutions by liquid-liquid extraction using Aliquat-336, 22:8024
separation from radioactive waste by ion exchange on strongly basic anion exchange resins, 23:43379 (ARH-1279)
separation from radioactive waste solutions by solvent extraction in packed columns, 23:31395 (ARH-SA-28)
separation from rhenium by solvent extraction, 25:54401
separation from rhodium by ion exchange, 22:33392
separation from ruthenium and rhodium by coprecipitation with ferric hydroxide, 25:57552
separation from silver by ion exchange, 22:40199
separation from silver by solvent extraction, 22:21120
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation from sulfuric acid solutions by solvent extraction using high-molecular-weight carboxylic acids, 25:37487
separation from tungsten by paper chromatography, 22:25257
separation from waste solutions by retention on column of Aliquat-336, 24:261 (ARH-1346)
separation of carrier-free silver radioisotopes from proton-irradiated, 21:22020
separation of carrier-free silver-111 from neutron-irradiated, by anion exchange, 24:48122
separation of fission product, from aqueous sodium chloride solutions by electrolysis, 24:33634
separation of iron from, aqueous solvents for use in paper chromatographic, 21:39012
separation of ruthenium from, by solvent extraction using carbon tetrachloride, 22:18884
separation of silver from irradiated, by spontaneous electrodeposition on metallic mercury, 21:36093
separation of trace amounts of silver from, surface replacement reaction method for, 24:16636
separation of uranium from, in methyl sulfoxide by cation exchange chromatography, 25:54728
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, review on methods for, 24:7492
separation of, solvent extraction and ion exchange methods for, 21:39129 (ORNL-4155)
shock compressibility of, model for analysis of, 24:42122
solvent properties for hydrogen, 21:32867(T) (LA-tr-67-55)
solvent properties for hydrogen at 200 to 450°C, 23:7511
sorption by manganese dioxide from nitric acid, 22:157
sorption of trace amounts of, by silver cyanide, silver halates, silver halides, and silver thiocyanates, kinetics of, 25:228
sorption on manganese oxide columns from nitric acid solutions, 23:11614
sorptive properties for deuterium, 21:34286
sorptive properties for hydrogen, use of uranium or titanium hydrides to increase, 22:13005(T) (UCRL-Trans-10180)
spectra from, in irregular variable V 348 Sgr, (E), 23:16568
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
sputtering yields of argon ion bombarded, 22:2587 (BNWL-553)
superconducting transition temperature of, relation to magnetic spin susceptibility, (T), 21:20894
surface atom displacement in monocrystals of, at 25 to 600°C, 22:45029 (UCRL-18043, pp 7-105)
tellurium-125 Moessbauer effect on impurity nuclei in, 23:16901
thermodynamic constants of, and its compounds, 23:33190
use and demand for, produced in fission product wastes, 23:596
use for producing pure hydrogen plasma, (E), 25:52836
use of foils of, for preparation of electrodeposited actinide radiation targets, 25:49384 (UCRL-73121)
uses as structural materials in corrosive environments, review on, 23:46004
uses for tritium enrichment by frontal chromatography, 24:18906
uses of, 23:28979
uses of fission product, evaluation of potential, 25:34803(R) (BNWL-1308-5)
uses of, for refractory metal brazing, 21:9112
vapor pressure of, 21:46(R) (GA-5611)
vaporization of, ion source development for, 22:37938 (ORNL-4271)
wetting of oxides of aluminum, magnesium, and zirconium, and borides and carbides of titanium, vanadium, and zirconium at 1600 to 2000°C, 25:22172
zirconium activity coefficients in, 23:40616 (UCRL-18735, pp 5-80)

PALLADIUM ALLOY COUPLES
Au—Pd/Au—Pd—Pt, tests and data on high temperature thermocouples of, 24:36644 (DP-Report-167)

PALLADIUM ALLOYS AND SYSTEMS
analysis by neutron activation in IAN-R1 research reactor, 24:38770 (PRNC-135, pp 93-7)
Au—Ga—Pd, nuclear quadrupolar relaxation rates in $Au_{0.95}Pd_{0.05}Ga_2$, effects of melting on, 25:43496
book: Electron Properties of Metals and Alloys, in Russian, 21:34910
book: Palladium Alloys, 23:24889
deuterium solubility in, 21:28722
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
magnetic moment distribution in ferromagnetic binary, review of neutron-scattering studies of, 23:18728
phase diagrams, 23:24889
reactions with hydrogen, effects of, on mechanical properties, 21:32897

solvent properties for hydrogen, effects of alloying elements on, 25:49417
sorptive properties for deuterium, 21:34286
sorptive properties for hydrogen, use of uranium or titanium hydrides to increase, 22:13005(T) (UCRL-Trans-10180)
wetting of oxides of aluminum, magnesium, and zirconium, and borides and carbides of titanium, vanadium, and zirconium at 1600 to 2000°C, 25:22172
actinides—Pd, crystal lattice spacings in alpha-phase intermetallic compounds of, 24:46745
actinides—Pd, preparation by coupled reductions, 25:49389
Ag—Cd—In—Pd, metallurgical properties of, effects of annealing temperature on, 22:30165(R) (WCAP-3706)
Ag—Cd—In—Pd, tensile properties of control elements of, effects of annealing temperature on, 22:30167(R) (WCAP-3708)
Ag—Cd—In—Pd—Sn, mechanical properties of, effects of annealing temperature on, 22:30166(R) (WCAP-3707)
Ag—Cd—In—Pd—Sn, metallurgical properties of, effects of annealing temperature on, 22:30165(R) (WCAP-3706)
Ag—Cd—In—Pd—Sn, tensile properties of control elements of, effects of annealing temperature on, 22:30167(R) (WCAP-3708)
Ag—Cu—Pd, phase diagram calculations for, 23:38999
Ag—Cu—Pd, properties as braze filler for refractory metals and superalloys, 21:36803 (MLM-1322)
Ag—Mn—Pd, performance as brazing alloy for high-temperature structural materials, 22:23782
Ag—Pd, diffusion of hydrogen through membrane of, in presence of krypton-85, 21:45196 (NYO-841-9)
Ag—Pd, electric conductivity of, 25:16398 (IS-2300, pp 101-86)
Ag—Pd, electric conductivity of, at 1.4 to 60°K, effects of gadolinium and neodymium impurities on, 21:41575 (IS-1600, Paper 5)
Ag—Pd, loading with deuterium for radiation targets, (E) , 21:13785 (NP-16486)
Ag—Pd, optical properties of, 24:16363 (IS-T-325)
Ag—Pd, properties for use as temperature monitors at 780 to 1555°C, 25:37945 (JUL-680-RB)
Ag—Pd, silver-109 NMR in, Knight shifts, spin—spin, and spin—lattice relaxation times from, (E), 22:15627
Ag—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Ag—Pd-base, diffusion of deuterium in, at 300 to 500°C, effects of pressure on, 24:2928
Ag-base—Be—Ce—Pd, mechanical properties of corrosion resistant, 23:30024(P)
Al_2O_3—Pd, effects of, as catalyst on isotopic exchange between deuterium and cycloalkanes, 21:8299
Al_2O_3—Pd, effects on reactions of acetylene with deuterium, catalytic, 21:12425
Al—Pd, crystal structure of, review of, 23:48460 (NP-18014)
Al—Pd, optical constants for β-phase PdAl intermetallic compound in, 25:56352
Al—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Al—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Au—D—Pd, phase studies by neutron diffraction methods, 22:12278
Au—Er—Pd, crystal structure of intermetallic compounds of, (E/T), 24:14779
Au—Fe—Pd, Moessbauer investigations of, 24:50314 (UCRL-50918)
Au—Ga—Pd, superconducting, thermal, and magnetic properties of intermetallic, with fluorite structure, (E), 23:44362
Au—H—Pd, phase studies by neutron diffraction methods, 22:12278
Au—Nd—Pd, formation and structure of intermetallic compounds in, 21:11208 (ANL-7155, pp 167-289)
Au—Ni—Pd, properties for use as braze alloy between molybdenum and niobium at 2200°F, 21:20497
Au—Ni-base—Pd, radiation effects on Palniro 7, neutron, 22:8745 (ORNL-4170, pp 238-44)
Au—Pd, crystal structure of, effects of deuterium and hydrogen sorption on, 22:4793
Au—Pd, deuterium solubility in, comparison with hydrogen solubility, 21:28722
Au—Pd, electric conductivity of, 25:16398 (IS-2300, pp 101-86)
Au—Pd, electric conductivity of, on thin plastic films for use as source mounts, effects of ionic bombardment on, 21:34265
Au—Pd, preparation of catalysts of, studies on, 21:45081(R) (NYO-1158-21)
Au—Pd, properties for use as braze alloy between molybdenum and niobium at 2200°F, 21:20497
Au—Pd, properties for use as temperature monitors at 780 to 1555°C, 25:37945 (JUL-680-RB)
Au—Pd, structure of solid solution, from x-ray scattering measurements, computer program for simulation of, 24:17310 (ORNL-TM-2866)
Au—Pd—Pt, brazing of, with refractory alloys and metals, exothermic, 21:9116
Au—Pd—Te, superconducting properties of liquid-quenched simple cubic, 25:11819 (CALT-822-22)
Au—Pd—Te, superconductivity in simple cubic intermetallic (Au/sub 1-x/Pd/sub x/)Te_3, 25:58928 (CALT-822-37)
Au—Pd—W, phase studies of, 24:27796
Au-base—Pd, radiation effects on electric properties of, neutron, 23:8248
B—Cr—Ni—Pd, magnetic states in amorphous, 25:45610
B—Cr—Pd, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
B—Cr—Pd, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
B—Cr—Pd, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
B—Fe—Ni—Pd, magnetic states in amorphous, 25:45610
B—Li—Ni—Pd-base, performance as braze alloy for TD Nickel and TD Nickel chromium, 23:30112
B—Pd, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
B—Pd, diffusion of hydrogen in, 23:51116
B—Pd, diffusion of hydrogen in, electrochemical relaxation study of, 24:9326
B—Pd, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
B—Pd, thermodynamic properties of interstitial solid solutions of, 25:49417
Be—Pd, magnetization of $PdBe_{12}$, 23:30670
Be—Pd, phase diagram of, 22:10986(T) (JPRS-43479)
C—Pd—Zr, phase studies, 23:30050 (UCRL-18727)
Cd—Pd, magnetic susceptibility of, at 4.2 to 300°K, 21:11208 (ANL-7155, pp 167-289)
Cd—Pd, thermodynamic properties, 22:43594 (ANL-7299, pp 251-64)
Cd—Pd-base, thermodynamic properties of, 25:11396
Ce—La—Pd, structure, Kondo effect, and thermal capacity of Ce/sub x/La/sub 1-x/Pd_3, (E/T), 25:52945 (CONF-711001-(Vol.2), pp 680-91)
Ce—Pd, crystal structure and phase studies of, 22:36494
Ce—Pd, crystal structure of intermetallic $CePd_3$ in, effects of temperature on lattice spacings in, 21:6831
Ce—Pd, electric conductivities of PdCe and Pd_3Ce at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Ce—Pd, intermetallic compounds of, melting points of, 21:41620
Ce—Pd, magnetic and electric properties of $CePd_3$ at 4 to 300°K, 25:27870
Ce—Pd, phase studies at 800 to 1540°C, 21:41620
Ce—Pd-base, crystal lattice spacing and magnetic susceptibility at 0 to 300°K, 24:21383 (CALT-221-83)
Co—Mo—Pd, electric and magnetic properties of solid solutions of, temperature dependence of, (E/T), 25:5178
Co—Pd, analysis for cobalt, x-ray spectrographic, 22:4 (AERE-R-5452)
Co—Pd, analysis for composition, spectroscopic, 21:17563 (ARL-67-0002)
Co—Pd, cobalt-59 nuclear magnetic resonance spectra in, 22:7363
Co—Pd, electric conductivity and short-range order of deformed, 25:4766
Co—Pd, magnetic fields on cobalt-60 nuclei in, 21:44195
Co—Pd, properties for use as braze alloy between molybdenum and niobium at 2200°F, 21:20497
Co—Pd, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Co—Pd—Si, Kondo effect in amorphous, 24:47996 (CALT-822-11)
Co—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Co—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Co-57—Pd, preparation of gamma source, for Moessbauer spectroscopy, 22:9464
Co-base—Pd, thermal expansion at 100 to 800°C, 25:29899
Co-base—Pd, transformation temperatures of, allotropic, 25:29899
Cr—Ni—Pd, brazing of, with refractory alloys and metals, exothermic, 21:9116
Cr—Ni—Pd, development as brazing alloy for graphite-to-molybdenum joints, 21:13100 (ORNL-3970, pp 193-203)
Cr—Ni—Pd-base, corrosion by fused fluoride fuel salts at high temperatures, 21:35583(R) (ORNL-4119)
Cr—Ni—Pd-base, use in joining graphite to graphite or to refractory metals, 23:3111(P)
Cr—Pd, mictomagnetism in fcc, 25:27890
Cr—Pd, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Cr—Pd—Sb, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Cr—Pd—Sb, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Cr—Pd—Si, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Cr—Pd—Si, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Cr—Pd—W, oxidation resistance to hot air, 23:14315
Cr—Pd—W-base, oxidation resistance to air at 1200 to 1800°C, mechanisms of, 24:4722
Cr—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Cr—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Cu—Pd, phase diagrams and thermodynamic properties of, 22:4803
Cu—Pd, properties for use as temperature monitors at 780 to 1555°C, 25:37945 (JUL-680-RB)
Cu—Pd, thermodynamic properties of, vapor pressure studies on, 21:11208 (ANL-7155, pp 167-289)
D—Pd, electric conductivity at 50°K, time-dependent effects associated with, 24:9288
Dy—Pd, magnetic properties of $DyPd_3$ at 4 to 300°K, 25:27870
Er—Pd, electric conductivity at 4 to 40°K of, effects of erbium concentration and magnetic fields on, 21:6823
Er—Pd, magnetic properties of $ErPd_3$ at 4 to 300°K, 25:27870
Eu—Pd, crystal lattice parameters and magnetic susceptibilities of, 25:25258
Eu—Pd, electric conductivity of Pd_3Eu at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Eu—Pd, europium-151 Moessbauer spectra of, 25:25258
Eu—Pd, magnetic properties of $EuPd_3$ at 4 to 300°K, 25:27870
Eu—Pd, magnetic properties of Pd_3Eu, 25:47669
Eu—Pd, Moessbauer and magnetic properties of intermetallic, 22:22246
Eu—Pd, structure of intermetallics $EuPd_2$ and $EuPd_3$, 24:36936
Fe—H—Pd, magnetic properties of alpha and beta phases in, Moessbauer study of, 22:11541
Fe—P—Pd, magnetism in amorphous, 25:51271 (CALT-822-34)
Fe—Pd, analysis for iron, titration method for, 24:11423 (CEA-N-1148, pp 3-80)
Fe—Pd, analysis for iron, titration method for, 24:22576(T) (ANL-Trans-796)
Fe—Pd, dilute, NMR spin-echo spectroscopy of, (E), 22:17763
Fe—Pd, nuclear magnetic resonance in, spin—echo technique for, 22:9438
Fe—Pd, nuclear magnetic resonance of iron-57 in, (E), 22:7384
Fe—Pd, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Fe—Pd—Si, Kindo effect in amorphous, 24:47996 (CALT-822-11)
Fe—Pd—Si, Moessbauer effect study of amorphous, 25:44238 (CALT-822-32)
Fe—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Fe—Pd-base, electron interactions in dilute, calculation of effective, (T), 22:15610
Fe—Pd-base, iron spin from Moessbauer measurements, 24:19996
Fe—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Gd—Pd, crystal structure and magnetic properties of, (E) , 22:44276
Gd—Pd, magnetic and electric properties of $GdPd_3$ at 4 to 300°K, 25:27870
Gd—Pd, magnetic properties of Pd_3Gd, 25:47669
Gd—Pd-base, magnetic moments at 1.5 to 4.2°K, effects of gadolinium content on, 25:27921
H—Pd, electric conductivity at 50°K, effects of deuterium on, 24:9288
H—Pd, electric conductivity at 50°K, time-dependent effects associated with, 24:9288
H—Pd, Hall coefficient in layers during hydrogen sorption, 25:32709
H—Pd, thermodynamic properties of interstitial solid solutions of, 25:49417
Hf—Pd, preparation by coupled reductions, 25:49389
Hf—Pd, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ho-Pd, magnetic and electric properties of $HoPd_3$ at 4 to 300°K, 25:27870
In—Pd, crystal lattice spacings at 25°C, 23:14357
In—Pd, cyclotron masses, electronic specific heat, and magnetic susceptibility of β'-PdIn from APW calculations of energy bands, 24:51830
In—Pd, magnetic susceptibility at 25°C, 23:14357
In—Pd, phase studies of, 23:14357
In—Pd, thermodynamic properties, 22:43594 (ANL-7299, pp 251-64)
In—Pd-base, thermodynamic properties of, 25:11396
Ir—Pd, decomposition of, effects of elastic moduli on spinodal, 21:31036 (UCRL-17330, pp 79-121)
Ir—Pd, electrodeposition on metals in fused sodium cyanide and aqueous electrolytes for protective coatings, 21:41542 (BM-RI-7023)
Ir—Pd, hardness of, 21:32865 (UCRL-17470)
Ir—Pd, phase decomposition in, application of spinodal theory to, 21:32865 (UCRL-17470)
Ir—Pd, superconductivity, susceptibility, and thermal capacity of, correlation between, (E), 22:11383
Ir—Pd, superconductivity, susceptibility, and thermal capacity of, (E/T), 22:11384
Ir—Pd, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ir—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Ir—Pd-base, thermoelectric properties of solid solutions of, 24:17271
La—Pd, crystal structure and phase studies of, 22:36494
La—Pd, electric conductivity of Pd_3La at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
La—Pd—Re—Ta—Ti-base, production and tensile properties at -196 to +800°C, 22:4789
La—Pd-base, crystal lattice spacing and magnetic susceptibility at 0 to 300°K, 24:21383 (CALT-221-83)
LiH—Pd, compound formation in vacuum and under hydrogen at 800°C in, 23:24182
Lu—Pd, electric conductivity of Pd_3Lu at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Mn—Pd, magnetic structure of zeta-Pd_3Mn_2, neutron diffraction study, 22:29545(R) (PRNC-84)
Mn—Pd, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Mn—Pd—Si, electrical conductivity of amorphous, 25:41630 (CALT-822-30)
Mn—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Mn—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Mo—Pd, corrosion by air at 800 to 1200°C, 24:17211
Mo—Pd, electric and magnetic properties of solid solutions of, temperature dependence of, (E/T), 25:5178
Mo—Pd, electric properties at high temperatures, 23:994
Mo—Pd, mechanical properties at high temperatures, 23:994
Mo—Pd, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Mo—Pd, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Mo—Pd—Pt, electric properties, 23:994

Mo—Pd—Rh—Ru—Tc, fission-induced inclusions of, in plutonium dioxide—uranium dioxide fuels, 22:17152
Mo—Pd—Rh—Ru—U—Zr, fabrication of fuel alloy of, for EBR-II, 21:4590 (ANL-7125, pp 21-60)
Mo—Pd—Ru, electric properties, 23:994
Mo—Pd—Ti-base, tensile properties of metastable beta, at 25 to 800°C, effects of strain rate and annealing temperature on anomalies in, 25:35434
Mo—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Na—Pd, wetting properties of liquid, on solid metals below 200°C, 21:43598
Nb—Pd, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Pd, crystallization of solid-solution, mechanisms of, 25:19242
Nb—Pd, diffusion processes at 700 to 1030°C, quantitative electron probe microanalysis study of, 25:29881
Nb—Pd, phase diagram for, review on, 23:47435
Nb—Pd, tensile properties of, 21:45902
Nb—Pd, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Nb—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Nd—Pd, electric conductivity of Pd_3Nd at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Nd—Pd, magnetic properties of $NdPd_3$ at 4 to 300°K, 25:27870
Ni—P—Pd, electrical properties of amorphous, 25:51270 (CALT-822-33)
Ni—P—Pd—Pt, electrical properties of amorphous, 25:51272 (CALT-822-35)
Ni—Pd, analysis for nickel, volumetric, 25:6260 (CEA-N-1341, pp 3-93)
Ni—Pd, magnetic hyperfine fields at nickel-61 nuclei in, Moessbauer studies of, 25:2669 (ORNL-4570, pp 23)
Ni—Pd, thermodynamic properties of, calorimetric studies on, 21:11208 (ANL-7155, pp 167-289)
Ni—Pd, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Ni—Pd—nickel-61 hyperfine interactions in, (E/T), 25:7847 (ORNL-4513)
Ni—Pd-base, corrosion by air at 800 to 1200°C, 24:17211
Ni—Pd-base, thermoelectric properties of solid solutions of, 24:17271
Np—Pd-base, electric conductivity and magnetic susceptibility at 1.6 to 300°K, 24:24155
Np—Pd-base, magnetic properties at 2.5 to 300°K, (E/T), 25:43488
Np—Pd-base, magnetic properties of solid solutions of, at 2 to 300°K, 25:12003
Np-base—Pd, magnetic behavior of dilute, Moessbauer effect studies of, 25:12001
Os—Pd, analysis of osmium, comparison of chemical and x-ray fluorescence, 22:4 (AERE-R-5452)
Os—Pd, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Pr, crystal lattice spacing and magnetic susceptibility at 0 to 300°K, 24:21383 (CALT-221-83)
Pd—Pr, electric conductivity of Pd_3Pr at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Pr, magnetic properties of $PrPd_3$ at 4 to 300°K, 25:27870
Pd—Pt, electric properties of, effects of deuterium and hydrogen sorption on, 22:4793
Pd—Pt, formation of solid solutions of, heat of, 24:25725 (ANL-7417, pp 85-104)
Pd—Pt, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pd—Pt, sorptive properties of, for deuterium and hydrogen, equilibrium constants for, 21:4534
Pd—Pt—U, uranium-235 fission fragment ranges in, 21:10368(R) (AGN-8178)
Pd—Pt-base, distribution of palladium atoms in dilute, determination by field ion microscopy, 23:1007
Pd—Pt-base, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pd—Pu, lattice structure of, 23:7055
Pd—Pu, magnetic susceptibility of, 23:7054
Pd—Pu, phase diagrams of, 21:32918
Pd—Pu, phase studies of, 22:2655
Pd—Pu—Rh—Ru—U, formation in irradiated plutonium dioxide—uranium dioxide fuels, 22:17152
Pd—Pu—Rh—Ru—U, occurrence of inclusions of, in irradiated plutonium carbide—uranium carbide, 25:16541
Pd—rare earth, magnetic properties of Pd_3R at 1.3 to 300°K, 25:47669
Pd—rare earths, crystal lattice spacings in alpha-phase intermetallic compounds of, 24:46745
Pd—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Rh, thermodynamic properties of solid solutions of, 24:25725 (ANL-7417, pp 85-104)
Pd—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Rh—Ru, electric properties, 23:994
Pd—Ru, electric properties at high temperatures, 23:994
Pd—Ru, mechanical properties at high temperatures, 23:994
Pd—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Sb, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pd—Sb, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pd—Sb, magnetic properties of, effects of 3d-element impurities on, (E), 22:29393
Pd—Sb, magnetic susceptibility of, at 4.2 to 300°K, 21:11208 (ANL-7155, pp 167-289)
Pd—Sb, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Pd—Sb, properties for use as braze on Zircaloy-2 sheet, corrosion and metallographic, 21:26793(R) (IITRI-578-P-29-11)
Pd—Sb, spectra of, effects of isomer shifts on Moessbauer, 24:25725 (ANL-7417, pp 85-104)
Pd—Sb, superconducting properties of liquid-quenched simple cubic, 25:11819 (CALT-822-22)
Pd—Sb, superconducting properties of, effects of 3d-element impurities on, (E), 22:29393
Pd—Sb, thermodynamic properties, 22:43594 (ANL-7299, pp 251-64)
Pd—Sc, electric conductivity of Pd_3Sc at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Si, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pd—Si, properties for use as braze on Zircaloy-2 sheet, corrosion and metallographic, 21:26793(R) (IITRI-578-P-29-11)
Pd—Si, radiation effects on crystal structure of, amorphous state produced by fission fragment, (E), 22:37054
Pd—Si—transition metals, two currents conduction in, 25:28844 (CALT-822-28)
Pd—Sm, electric conductivity of Pd_3Sm at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Sm, magnetic properties of Pd_3Sm, 25:47669
Pd—Sm, magnetic properties of $SmPd_3$ at 4 to 300°K, 25:27870
Pd—Sn, crystal lattice spacings at 25°C, 23:14357
Pd—Sn, magnetic susceptibilities and Sn-119 isomer shifts of, (E), 21:13635
Pd—Sn, magnetic susceptibility at 25°C, 23:14357
Pd—Sn, phase studies of, 23:14357
Pd—Sn, thermodynamic properties, 22:43594 (ANL-7299, pp 251-64)
Pd—Ta, diffusion processses at 700 to 1030°C, electron-microprobe study of, 25:29893
Pd—Ta, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Tb, magnetic properties of Pd_3Tb, 25:47669
Pd—Tb, magnetic properties of $TbPd_3$ at 4 to 300°K, 25:27870
Pd—Tc, phase studies of, 22:4807
Pd—Th—U, compensated spin state in U/sub x/Th/sub 1-x/Pd_3, EPR study of partially, (E), 23:48987
Pd—Ti, properties of castings of, standard for, 25:52338
Pd—Ti, stability of gaseous intermetallic, 25:35350
Pd—Tm, magnetic properties of $TmPd_3$ at 4 to 300°K, 25:27870
Pd—transition metal, properties of, 23:30025
Pd—transition metals, crystal lattice spacings in alpha-phase intermetallic compounds of, 24:46745
Pd—U, californium-252 fission fragment ranges in, 21:10368(R) (AGN-8178)
Pd—U, fabrication, properties, and testing of chemonuclear fuel element and fission-fragment recoil energy source of, 21:36808
Pd—U, fission-fragment ranges and energy losses in, (E), 22:1350
Pd—U, production of thin foils of enriched, for use as chemonuclear fuels, 22:37775 (BNL-50082, pp 40-78)
Pd—U, thermoelectric properties at 12 to 1200°C, 24:1007
Pd—U, uranium-235 fission fragment ranges in intermetallic compound PdU in, 21:10368(R) (AGN-8178)
Pd—V, diffusion in, effects of concentration on self-, 25:37963
Pd—V, electric conductivity of intermetallic V_3Pd down to 0.35°K, 21:24757
Pd—V, electron band structure of V_3Pd from x-ray emission spectra, 25:50003
Pd—V, superconducting behavior of, 23:25281
Pd—V, superconductivity, thermal capacity, and crystalline order of, with A15 structure, (E/T), 24:40016
Pd—V, thermoelectric power of, at 500°C, 21:11208 (ANL-7155, pp 167-289)
Pd—W, analysis for nickel, titrimetric, 23:7489
Pd—W, crystal structure and superconductivity of, 22:36496
Pd—W, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Y, electric conductivity of Pd_3Y at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Y, phase diagram of, statistical prediction of, 22:31396
Pd—Yb, electric conductivity of Pd_3Yb at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Yb, magnetic properties of $YbPd_3$ at 4 to 300°K, 25:27870
Pd—Yb, ytterbium electronic state in solid solution alloys of, 22:48165
Pd—Zr, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pd—Zr, phase studies on splat-cooled, 22:47683
Pd—Zr, preparation and properties of braze, for joining Zircaloy-2-clad fuel elements, 21:18228(R) (IITRI-578-P-29-8)
Pd—Zr, preparation by coupled reductions, 25:49389
Pd—Zr, properties for use as braze on Zircaloy-2 sheet, corrosion and metallographic, 21:26793(R) (IITRI-578-P-29-11)
Pd—Zr, stability of gaseous intermetallic, 25:35350
Pd—Zr, structure of intermetallic equiatomic, (E), 21:16971
Pd—Zr, thermal stability of intermetallic compounds of, 23:30050 (UCRL-18727)
Pd—Zr, thermodynamic properties of $ZrPd_3$, 24:44720
Pd—Zr, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—ZrO_2, development and testing of thermal switch reentry protection composites of, 24:32363
Pd-base—Pu, electric conductivity and magnetic susceptibility of, 24:42827
Pd-base—Pu, magnetic properties at 2.5 to 300°K, (E/T), 25:43488
Pd-base—Pu, magnetic properties of solid solutions of, at 2 to 300°K, 25:12003
Pd-base—Re, corrosion by air at 800 to 1200°C, 24:17211
Pd-base—Re, thermoelectric properties of solid solutions of, 24:17271
Pd-base—Ru, corrosion by air at 800 to 1200°C, 24:17211
Pd-base—Ru, thermoelectric properties of solid solutions of, 24:17271
Pd-base—Sb, thermodynamic properties of, 25:11396
Pd-base—Si, radiation effects on amorphous structure of, fission products, 25:29901 (CEA-CONF-1693)
Pd-base—Si, radioinduced amorphization of, fast neutron or fission fragment, 25:49584
Pd-base—Sn, thermodynamic properties of, 25:11396
Pd-base—Th, thermal capacity at low temperatures, (E/T), 25:11989
Pd-base—U, fabrication for chemonuclear fuel elements, (E/T), 21:23710 (BNL-994, pp 45-69)
Pd-base—U, magnetic behavior from susceptibility, resistivity, and thermal capacity at low temperatures, (E/T), 25:11989
Pd-base—U, magnetic properties of solid solutions of, at 2 to 300°K, 25:12003
Pd-base—V, corrosion by air at 800 to 1200°C, 24:17211
Pd-base—V, thermoelectric properties of solid solutions of, 24:17271
Pd-base—W, corrosion by air at 800 to 1200°C, 24:17211
Pd-base—W, thermoelectric properties of solid solutions of, 24:17271

PALLADIUM BROMIDES
  separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

PALLADIUM CHLORIDES
  complexes with dimethylphenylphosphine, crystal structure of, 23:213 (IS-1900, Paper 3)
  separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

PALLADIUM CYANIDE
  effects on radioinduced polymerization of butadiene, 22:33387

PALLADIUM DEUTERIDES
  reactions of, with ethylene, 21:5902

PALLADIUM HALIDES
  book: Halides of the Transition Elements, Halides of the Second and Third Row Transition Metals, 23:9399

PALLADIUM HYDRIDES
  neutron scattering by, localized vibration modes by inelastic, 21:29362
  proton NMR at -190 to 300°C in, 25:26261(T) (ORNL-tr-2439)
  reactions of, with ethylene, 21:5902
  solvent properties for hydrogen, 22:13033

PALLADIUM IONS
  chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
  electron binding energies for fission-fragment, calculated, 21:37121
  production of, design of sputtered gun for, 24:25158 (AERE-R-6343)
  radii in fluorides and oxides, 24:188
  transport in lithium chloride solutions, paper ionophoretic studies on, 23:28827

PALLADIUM ISOTOPES
  decay of, conversion-electron and gamma spectra from, (E), 21:19285
  decay schemes for, tables on, 23:33331 (BNL-13595)
  deuteron reactions (d,p) with, spectroscopic factors for, (E/T), 23:15441
  electron binding energies of, K and L, (T), 21:42670
  energy levels from (d,p) and (d,t) reactions, spectroscopic factors for, (E), 25:28374
  energy levels of even—even, perturbed angular correlation measurement of magnetic moment of Coulomb-excited first 2^+, (E), 24:47635
  energy levels of even-even, low-lying, (T), 21:12018 (INSJ-101)
  excitation of even, oxygen-16 ions in ferromagnetic media, (E), 22:29241
  nuclear charge distribution of, effect of proton addition on, (E/T), 21:44620
  nuclear electric quadrupole moments, (T), 21:30026 (JINR-E4-3286)
  production by neutron irradiation of uranium dioxide, effects of metal acetylacetonate as collector on, 24:2266(R) (HMI-B-84)
  production in power reactor spent fuel elements, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
  production in proton reactions with indium isotopes and silver isotopes at 200 to 400 MeV, (E), 21:5503(R) (NYO-2897-17)
  production of stable, by US power reactors through 1990, 22:45245 (BNWL-716)
  production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)

PALLADIUM ISOTOPES Pd-97
  decay of, γ spectra and half-life for, (E), 24:20407

PALLADIUM ISOTOPES Pd-98
  beta decay of, γ spectra from, (E), 24:18436

PALLADIUM ISOTOPES Pd-99
  beta and electron-capture decay of, branching ratios, gamma spectra, log-ft values, and Q values for, (E), 25:28431
  beta decay of, beta and gamma singles and coincidence spectra from, (E), 23:49427
  energy levels from beta decay of silver-99, (E), 22:1698

PALLADIUM ISOTOPES Pd-101
  beta and electron-capture decay of, γ energies from, (E), 24:40608 (IN-1317, pp 69-151)
  beta and electron-capture decay of, γ singles and coincidence spectra and internal conversion electron spectra from, (E), 25:12596

beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy levels from beta decay of silver-101, (E), 22:1699

PALLADIUM ISOTOPES Pd-102

alpha reactions (α,2n) at 20 to 43 MeV, gamma spectra from, (E), 24:43381
alpha reactions (α,2n) at 20 to 43 MeV, γ spectra from, 24:52563(R) (NP-18217)
carbon-12 reactions (C-12,3n) with, delayed proton emission in, (E), 22:44694
carbon-12 reactions (C-12,3n) with, tellurium-111 proton decay scheme from, (E), 21:21518 (JINR-E6-3142)
carbon-12 reactions at 45 to 75 MeV, excitation function for tellurium-111 production by, (E), 22:30025
carbon-12 reactions with, delayed proton emission in, (E), 22:14059
carbon-12 reactions with, delayed proton emission in, (E), 22:14021
carbon-12 reactions with, proton activity produced by, (E), 22:30025
deuteron reactions (d,p) with, proton angular distributions from, (E), 21:46784
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy levels from beta decay of silver-102, (E), 22:7729
energy levels from rhodium-102 decay, (E), 24:52590
energy levels from rhodium-102 decay, spins and parities of, (E), 25:3671
energy levels from silver-102 decay, (E), 23:49419
energy-level spins and transitions from decay of isomeric silver-102, (E), 21:33997
energy-level spins and transitions from rhodium-102 decay, (E), 22:27167
energy-level spins and transitions from silver-102 decay, (E), 21:12057
energy-level transitions from vibrational states, angular anisotropy of conversion electrons for, (E), 22:20645
energy-level transitions in, anisotropy of conversion electrons from vibrational, (E), 21:33963(R) (NP-16498)
neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
neutron capture by, spectroscopic analysis of, (E), 25:12586
neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
neutron reactions (n,2n) at 14.4 MeV, activation cross sections for, (E), 24:24575
nucleosynthesis in stars, (T), 24:12538
proton elastic scattering by, isobaric analog resonances in, (E), 21:46784
proton reactions (p,2n) at 50 MeV, production of silver-101 by, (E), 22:1699
proton reactions (p,2n) with, production of silver-101 by, (E), 21:34016
proton reactions (p,3n) and (p,4n) at 10 to 50 MeV, production of silver-99 and -100 by, (E), 22:1698
proton reactions (p,3n) with, production of silver-100 by, (E), 21:34016
proton reactions (p,4n) with, production of silver-99 by, (E), 21:34016
proton reactions (p,n) with, isobaric analog resonances in, (E), 21:46784

PALLADIUM ISOTOPES Pd-103

counting in lungs using chromium-51 label, effective tissue thickness for, 24:33996
decay in tissue, computer calculations of energy release and intensity for, use in dosimetry, 24:14492
decay of, K-Auger-electron, conversion electron, K x-ray, and gamma-ray energies and intensities in, (E), 23:42954
decay of, production of rhodium-103m by, 24:33714
distribution in rats following introduction into thigh muscle, effects of carrier on, 25:55112
effects on rabbit liver following injection, dose rate factor in, 25:32554
electron-capture decay of, γ spectra from, (E), 24:40608 (IN-1317, pp 69-151)
electron-capture decay of, γ- and x-ray yields for, (E), 23:25936
electron-capture decay of, γ—γ angular correlations for, (E), 23:37201
energy levels from palladium-102 (d,p) reactions, isobaric analog, (E), 21:46784
energy levels from silver-103 decay, (E), 23:49419
energy-level spins and transitions from silver-103 decay, (E), 21:2712
energy-level transitions from silver-103 decay, (E), 23:15446
fabrication for use as therapeutic x radiation source, method for, 23:2522(P)
isomeric transitions in, γ spectra and half-life for, (E), 23:21307
production by proton fission of uranium, mechanism of, 21:21963 (BNL-994, pp 3-19)
production of, development and testing of isotope generators for, 25:46593 (EUR-4619)
radiation dose to man from plutonium-239 in lungs following inhalation of aerosol-incorporated, use of proportional counters to measure soft x, 22:43300 (AERE-PR/HPM-12)
range in thick uranium targets from fission reactions, vector model analysis of, (T), 23:37185 (COO-1505-32)
separation from isomeric rhodium-103 by ion exchange, 23:45372
separation of rhodium-103 from, by ion exchange, 25:29413 (CONF-691225)
use for estimation of plutonium compounds in lungs of man, 22:21501
use for therapy of tumors in man, 25:32554

PALLADIUM ISOTOPES Pd-104

alpha inelastic scattering at 3 to 11 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
alpha inelastic scattering at 8.5 to 10 MeV, α—γ coincidence spectra from, (E), 24:26665
alpha inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
alpha reactions (α,2n) and (α,4n) at 20 to 43 MeV, gamma spectra from, (E), 24:43381
alpha reactions (α,2n) at 20 to 43 MeV, γ spectra from, 24:52563(R) (NP-18217)
effects on ir and Raman spectra of palladium complexes with alkenes, 24:31334
effects on ir spectra of palladium phosphine complexes, 24:31333
effects on spectra of palladium complexes with 2,4-pentanedione, 24:36236
energy level from Coulomb excitation, quadrupole moment of first 2^+, (E), 24:26665
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy levels and transitions, (E), 25:23045
energy levels from palladium-105 (d,t) and silver-107 (p,α) reactions, spin-parity assignments and spectroscopic factors for, (E), 25:3701
energy levels from palladium-105 (d,t) and silver-107 (p,α) reactions, spectroscopic factors for, (E), 24:15922
energy levels from resonances in rhodium-103 (p,α) reactions, widths for compound-nucleus, (E), 25:28268
energy levels from rhodium-104 and -104m decay, two-phonon, (E), 25:28382
energy levels from rhodium-104 and silver-104 decays, (E), 23:42916(R) (UR-3591-10)
energy levels from rhodium-104 decay, (E), 21:27581
energy levels from rhodium-104 decay, (E), 23:28300 (NP-17819, Chap.3.2)
energy levels from silver-104 decay, (E), 23:49419
energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
energy levels of, quadrupole moments of first 2^+, (E), 24:43395
energy levels of, spin-parity assignments and γ branching ratios for, (E), 25:48106
energy-level transitions from beta decay of rhodium-104, (E), 23:46982 (CONF-690518-1)
energy-level transitions from Coulomb excitation, multipole mixing ratios and probabilities for, (E), 23:11026
energy-level transitions from Coulomb excitation, branching ratios and probabilities of, (E), 22:29985 (ORNL-TM-2121)
ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
neutron capture by, spectroscopic analysis of, (E), 25:12586
neutron reactions (n,p) at 14.8 MeV, cross sections for, (E), 25:53786
nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
oxygen-16 inelastic scattering at 30 to 42 MeV, particle-γ coincidence spectra from, (E), 24:26665
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
oxygen-16 inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
proton elastic scattering by, isobaric analog resonances in, (E), 21:46784
proton inelastic scattering at 12 MeV, proton spectra from, (E), 25:48106
proton inelastic scattering at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
proton inelastic scattering by, proton spectra for, (E), 23:42916(R) (UR-3591-10)
proton inelastic scattering with Coulomb excitation, γ angular distributions and yields from, (E), 22:29985 (ORNL-TM-2121)
proton reactions (p,n) with, isobaric analog resonances in, (E), 21:46784

PALLADIUM ISOTOPES Pd-105

alpha inelastic scattering at 4.4 to 8 MeV with Coulomb excitation, γ spectra from, (E), 25:28423
alpha scattering at 9.6 MeV, gamma angular distributions from Coulomb excitation in, 21:29936
alpha scattering with Coulomb excitation, γ spectra for, (E), 23:17103(R) (ANL-7481)
deuteron reactions (d,p) and (d,t) at 17 MeV, angular distributions for, (E), 25:3701
deuteron reactions (d,p) at 17 MeV, angular distributions for, (E), 24:22171
deuteron reactions (d,t) at 17 MeV, triton spectra from, (E), 24:15922
energy level at 344 keV, lifetime of, 21:38354
energy level at 344 keV, lifetime of, (E), 24:33141
energy levels and transitions from alpha Coulomb excitation, (E), 24:43118(R) (ANL-7620)
energy levels from alpha Coulomb excitation, transition probabilities for, (E), 25:28423
energy levels from α scattering with Coulomb excitation, (E), 23:17103(R) (ANL-7481)
energy levels from Coulomb excitation, model analysis of, (E/T), 25:20324
energy levels from nitrogen-14 scattering with Coulomb excitation, spin—parity assignments and transition probabilities for, (E), 23:17117
energy levels from oxygen-16 Coulomb excitation, (E), 23:44848(R) (AECL-3333)
energy levels from silver-105 decay, (E), 23:49419
energy levels from silver-105 decay, spin—parity assignments for, (E), 23:10961(R) (NP-17704)
energy levels from silver-105 decay, spins and parities of, (E), 25:3670
energy-level lifetimes and transition probabilities from Coulomb excitation by alpha scattering at 9.6 MeV, 21:29936
energy-level spins and transitions from ion inelastic scattering with Coulomb excitation, (E), 21:44707
energy-level transitions from decay of silver-105, branching ratios and internal conversion coefficients for, (E), 23:23741
energy-level transitions from silver-105 decay, multipolarities of, (E), 22:37367
energy-level transitions from silver-106 decay, (E), 23:17107(R) (OU-LNS-68-1)
energy-level transitions in, interpretation of, (T), 22:48516 (JAERI-1158, pp 31-8)
neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
neutron capture at 11 to 355 eV, γ spectra from, (E), 25:46042
neutron capture at 50 to 810 eV, s-wave resonance spin assignments from, (E), 23:5889
neutron capture at 52 to 810 eV, cross section and resonance spin assignments for, (E), 22:48554
neutron capture by, gamma spectra from resonance, (E), 24:47620
neutron capture by, γ spectra for, (E), 23:47019
neutron capture by, γ spectra for, (E), 22:20578 (WASH-1079)
neutron capture by, γ spectra from resonance, (E), 22:5809(R) (ANL-7354)
neutron capture by, M1 radiative widths from average γ spectra for resonance, (E), 23:17103(R) (ANL-7481)
neutron capture by, resonance spin assignments for, (E), 23:17103(R) (ANL-7481)
neutron capture by, spectroscopic analysis of, (E), 25:12586
neutron reactions (n,α) with, alpha widths of compound nucleus levels from resonance, (E), 23:40089
neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron reactions (n,p) at 14.8 MeV, cross sections for, (E), 25:53786
neutron resonance parameters up to 90 eV, from shape analysis of transmission data, (E), 23:19256 (RT/FI-(68)37)
neutron resonance spin assignments from measurements of neutron capture γ spectra, s-wave, (E), 23:5889
neutron resonances at 55 to 807 eV, spin assignments for, (E), 22:37340(R) (EANDC(E)-89(U))
nitrogen-14 scattering at 46 MeV with Coulomb excitation, γ spectra for, (E), 23:17117
proton reactions (p,n) at 12.8 to 18 MeV with proton emission, proton spectra and angular distributions from, (E), 25:23008
proton reactions (p,np) at 15 to 18 MeV with excitation of isobaric analog resonances, cross sections for, (E), 23:19203 (PUC-937-339)
proton reactions (p,pn) at 17 MeV, mechanism of, (E), 25:10005
spin—lattice relaxation time in palladium metal, NMR study of, 22:15627

PALLADIUM ISOTOPES Pd-106

alpha inelastic scattering at 8.5 to 10 MeV, α—γ coincidence spectra from, (E), 24:26665
alpha inelastic scattering at 9 and 10 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
alpha reactions (α,2n) and (α,4n) at 20 to 43 MeV, gamma spectra from, (E), 24:43381
alpha reactions (α,2n) at 20 to 43 MeV, γ spectra from, 24:52563(R) (NP-18217)
Coulomb excitation by oxygen-16 and sulfur-32 ions, static quadrupole moments of excited states from, (E), 24:52630
deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 23:13299
deuteron reactions (d,p) at 12 MeV, palladium-107 energy levels from, (E), 21:44696
deuteron reactions (d,p) at 8, 12, and 17 MeV, angular distributions and spectroscopic factors for $l = 0$ and $l = 2$ transitions in, (E), 23:37274
energy level at 1127.8 keV, g-factor for, (E), 25:3664
energy level at 1128 keV, g-factor for two-phonon vibrational, (E), 22:32654
energy level at 511.7 keV from Coulomb excitation, quadrupole moment of, (E), 24:40602 (COO-1746-32)
energy level at 512 keV, g-factor for, (E), 22:46262
energy level from Coulomb excitation, quadrupole moment of first 2^+, (E), 24:26665
energy level of, g-factor for first 2^+, (E), 23:8986
energy level of, magnetic moment of second 2^+, (E), 24:15873
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy level spins and transitions from decay of isomeric rhodium-106 and silver-106, (E), 22:1700
energy levels from β decay of isomeric rhodium-106, (E), 22:35328
energy levels from Coulomb excitation, lifetimes, spin—parity assignments, and transition probabilities for, (E), 23:15490
energy levels from Coulomb excitation, static quadrupole moments for 2^+, (E/T), 25:17910
energy levels from decay of rhodium-106, spin—parity assignments for, (E), 23:23721
energy levels from decay of ruthenium-106 and silver-106, spin-parity assignments and multipole mixing ratios for, (E), 23:8992
energy levels from electron-capture decay of isomeric silver-106, (E), 22:7727
energy levels from palladium-105 (d,p) and silver-109 (p,α) reactions, spin-parity assignments and spectroscopic factors for, (E), 25:3701
energy levels from palladium-105 (n,γ) reactions, (E), 24:47620
energy levels from palladium-105 neutron capture, spin-parity assignments for, (E), 25:12586

energy levels from palladium-105 neutron capture, reduced partial widths and spin assignments for, (E), 25:46042
energy levels from palladium-108 (p,t) reactions, (E), 25: 9966(R) (COO-1265-94)
energy levels from rhodium-106m decay, spins and parities of, (E), 25:31384
energy levels from silver-106 decay, (E), 23:42793(R) (OU-LNS-69-2)
energy levels from silver-106 decay, (E), 23:49419
energy levels from silver-109 (p,α) and palladium-105 (d, p) reactions, (E), 24:22171
energy levels of, g factor of first 2^+, (E), 23:42906
energy levels of, gyromagnetic ratios of, (E), 21:2756
energy levels of, gyromagnetic ratios of, (E), 21:25557
energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
energy levels of, quadrupole moments of first 2^+, (E), 24:43395
energy levels of, spin—parity assignments for, (E), 23: 47019
energy-level spins and transitions from decay of isomeric silver-106, 21:42632
energy-level spins and transitions from decay of isomeric silver-106, (E), 21:21570
energy-level spins and transitions from silver-106 decay, (E), 22:5839
energy-level structure of, calculation using asymmetric rotor model, (T), 21:2810
energy-level transition from rhodium-106 decay, relative phase factor for E2—M1 1.05-MeV, (E), 22:53195
energy-level transitions from beta decay of rhodium-106, (E), 22:9869
energy-level transitions from palladium-105 neutron capture, M1, (E), 22:5809(R) (ANL-7354)
energy-level transitions from palladium-105 neutron capture, E1 and M1, (E), 22:20578 (WASH-1079)
energy-level transitions from palladium-105 resonance neutron capture, M1, (E), 23:17103(R) (ANL-7481)
energy-level transitions from silver-106 decay, conversion coefficients for, (E), 22:35352
energy-level transitions from silver-106 decay, conversion coefficients and multipolarities for, (E), 21:35486
energy-level transitions in, E2/M1 mixing ratios of $2^+ \rightarrow 2^+$, (E), 22:1702
gamma angular correlations in iron, hyperfine interaction studies using perturbed, (E), 22:9107
gamma directional correlation measurements of, integral-bias summing correlation spectrometer for, 23:681
ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
neutron capture cross section for, thermal, (E), 22:22608
neutron reactions (n,α) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron reactions (n,p) at 14.8 MeV, cross sections for, (E), 25:53786
nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22: 46803
nuclear resonance scattering of annihilation gamma rays from copper-64 positron decay, cross section for, (E/T) , 25:25262
oxygen-16 inelastic scattering at 25 and 30 MeV with Coulomb excitation, angular distributions for, (E), 24: 40602 (COO-1746-32)
oxygen-16 inelastic scattering at 25 and 30 MeV, gamma and oxygen-16 angular distributions and attenuations of gamma distributions from, (E/T), 25:17910
oxygen-16 inelastic scattering at 30 to 42 MeV, particle-γ coincidence spectra from, (E), 24:26665
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
photon resonant scattering using annihilation radiation, differential cross section for, (E), 24:15943
proton elastic scattering by, isobaric analog resonances in, (E), 21:46784
proton reactions (p,n) with, isobaric analog resonances in, (E), 21:46784
sulfur-32 inelastic scattering at 55 and 56 MeV with Coulomb excitation, angular distributions for, (E), 24: 40602 (COO-1746-32)
sulfur-32 inelastic scattering at 55 and 56 MeV, gamma and sulfur-32 angular distributions and attenuations of gamma distributions from, (E/T), 25:17910

PALLADIUM ISOTOPES Pd-107
beta decay of, half-life for, (E), 24:10999
beta decay of, K-shell internal ionization probability in, (T), 25:50770
content in reactor-irradiated fuel, 23:38173(R) (BNWL-1085)
content of man, MPC for, 24:44527
energy levels and transitions from rhodium-107 decay, (E), 23:52158
energy levels from palladium-106 (d,p) reactions at 12 MeV, (E), 21:44696
energy levels from palladium-106 (d,p) reactions, spectroscopic factors and spin assignments for, (E), 23:13299
energy levels from palladium-108 (d,t) reactions, spin—parity assignments for, (E), 24:40654
hazards from, evaluation of radiological, 25:54887(R) (BNWL-1308-6)

PALLADIUM ISOTOPES Pd-108
alpha inelastic scattering at 10.1 MeV, γ—γ angular correlations from, (E), 25:31374
alpha inelastic scattering at 7 to 10 MeV, gamma spectra from, (E), 25:17893
alpha inelastic scattering at 9 and 10 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
alpha reactions (α,2n) and (α,4n) at 20 to 43 MeV, gamma spectra from, (E), 24:43381
alpha reactions (α,2n) at 20 to 43 MeV, γ spectra from, 24:52563(R) (NP-18217)
deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 23:13299
deuteron reactions (d,p) at 12 MeV, palladium-109 energy levels from, (E), 21:44696
deuteron reactions (d,p) at 8, 12, and 17 MeV, angular distributions and spectroscopic factors for l = 0 and l = 2 transitions in, (E), 23:37274
deuteron reactions (d,t) at 17 MeV, angular distributions for, (E), 25:28374
deuteron reactions (d,t) at 17 MeV, triton spectra from, (E), 24:40654
energy level from oxygen-16 Coulomb excitation, quadrupole moment of first excited, (E), 24:18371
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy levels from alpha and oxygen-16 inelastic scattering, (E), 25:17893
energy levels from Coulomb excitation, lifetimes, spin—parity assignments, and transition probabilities for, (E), 23:15490
energy levels from decay of silver-108, (E), 23:15472
energy levels from decay of silver-108m, angular momenta of 1.770-MeV, (E), 24:49777(R) (COO-1746-39)
energy levels from electron-capture decay of silver-108, (E), 22:14052
energy levels from silver-108 decay, (E), 23:49419
energy levels from silver-108 decay, spins and parities of, (E), 25:25743
energy levels from silver-108 decay, spins and parities of, (E>, 25:31382
energy levels of, g factor of first 2^+, (E), 23:42906
energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
energy-level transition from Coulomb excitation, multipole mixing ratio of 497 keV, (E), 25:31374
ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
neutron capture at 24 keV, isomeric cross-section ratios and spin-cutoff parameter for, (E/T), 22:48498
neutron capture by, scintillation spectrometer for measuring gamma rays from, 22:6626
neutron capture cross section for, thermal, (E), 22:22608
neutron capture resonance integrals and resonance parameters for, tables of Doppler-broadened, (T), 22: 47318 (EURFNR-527)
neutron reactions (n,2n) at 14.7 MeV, isomeric cross-section ratio and spin-cutoff parameter for, (E), 22: 50583
neutron reactions (n,2n) at 14.8 MeV, cross section for, (E), 25:53743(R) (INR-1318)
neutron reactions (n,2n) at 14.8 MeV, cross sections and gamma spectra from, (E), 25:59797
neutron reactions (n,α) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron reactions (n,α) at 14.8 MeV, cross section for, (E), 25:53786
neutron reactions (n,p) at 14 MeV, beta and gamma spectra from, (E), 23:46996
neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron resonance parameters up to 90 eV, from shape analysis of transmission data, (E), 23:19256 (RT/FI-(68)37)
nuclear electric quadrupole moment for first excited 2^+ state in, measurement using Coulomb excitation with reorientation effect, (E), 22:46731(R) (COO-1746-8)
nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22: 46803
oxygen-16 inelastic scattering at 25 MeV, excitation function for, (E), 24:18371
oxygen-16 inelastic scattering at 28 to 42 MeV, gamma spectra from, (E), 25:17893
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
performance of activation detectors of, for neutron spectra measurements at 1 eV to 10 keV, 25:8481 (KFK-1233)
photon reactions (γ,n) and (γ,xn) at 8 to 29 MeV, yields and cross sections for, (E), 24:13350
photon reactions (γ,p) at 8 to 29 MeV, comparison of experimental and collective-model cross sections for, (E/T), 24:18409 (UM-P-69/18)
photon reactions (γ,p) at 8 to 29 MeV, yields and cross sections for, (E), 24:13350
photon reactions (γ,pn) at 8 to 29 MeV, yields and cross sections for, (E), 24:13350
photon reactions (γ,xn) and (γ,p) at 9 to 25 MeV, cross sections for, (E), 24:43454
photoneutron total cross section up to 25 MeV, comparison with collective-model predictions, (E/T), 24:18409 (UM-P-69/18)
proton elastic scattering by, isobaric analog resonances in, (E), 21:46784
proton reactions (p,α) and 12 and 15 MeV, angular distributions for, (E), 25:3701
proton reactions (p,α) at 15 MeV, angular distributions for, (E), 25:15022
proton reactions (p,n) with, isobaric analog resonances in, (E), 21:46784
proton reactions (p,t) at 19 MeV, angular distributions for, (E), 24:5389(R) (COO-1265-83)
proton reactions (p,t) at 19 MeV, angular distributions for, (E), 25:9966(R) (COO-1265-94)

PALLADIUM ISOTOPES Pd-109
beta decay of, 25:20942
beta decay of, conversion-electron spectra of, (E), 22: 37368
beta decay of, γ singles and coincidence spectra for, (E), 22:50560(R) (RLO-1062-681)
beta decay of, γ singles and coincidence spectra for, (E), 23:25925
beta decay of, γ spectra from, (E), 25:34133
beta decay of, γ-γ angular correlations from, (E), 24: 38239
beta decay of, silver-109 energy levels and transitions from, (E), 22:42050
beta decay of, silver-109 energy levels from, (E), 22: 7717
complexes with hematoporphyrin, uptake by lymph nodes of dogs in relation to use in therapy, 24:29698 (UCRL-18793, pp 73-9)
decay of isomeric, gamma spectra and half-life for, (E), 21:25478
determination in fission product mixtures by radiochemical separation and γ spectrometry, 23: 13669 (BNWL-715(Pt.2), pp 1-149)
effects on rabbit liver following injection, dose rate factor in, 25:32554
energy levels and properties of, Nuclear Data Sheets for, (E), 25:53757
energy levels from palladium-108 (d,p) reactions at 12 MeV, (E), 21:44696
energy levels from palladium-108 (d,p) reactions, spectroscopic factors and spin assignments for, (E), 23:13299
energy levels from palladium-110 (d,t) reactions, spin—parity assignments for, (E), 24:40654
reactions of recoil, with metal—2,4-pentanedione complex, 23:38005
separation from silver by anion exchange in hydrobromic acid medium, 25:21110
use for therapy of tumors in man, 25:32554
use of metalloporphyrin-incorporated, for selective ablation of lymph nodes in dogs, 25:42312
yields from 14-MeV neutron fission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30825
yields from the photofission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30842

PALLADIUM ISOTOPES Pd-110
alpha inelastic scattering at 10 MeV with Coulomb excitation, γ—γ angular correlation for, (E), 23:9000
alpha inelastic scattering at 10 MeV with Coulomb excitation, γ-γ angular correlations in, (E), 22: 35293(R) (ORNL-4230)
alpha inelastic scattering at 7 to 10 MeV, gamma spectra from, (E), 25:17893
alpha inelastic scattering at 9 and 10 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
alpha reactions (α,2n) and (α,4n) at 20 to 43 MeV, gamma spectra from, (E), 24:43381
alpha reactions (α,2n) at 20 to 43 MeV, γ spectra from, 24:52563(R) (NP-18217)
carbon-12 reactions (C-12,3n) at 35 to 70 MeV, isomeric cross-section ratios for, (E), 24:24594
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomeric yield ratios of, (E), 21:23519
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomer yield ratios for, (E/T), 21: 12024(R) (NYO-2771-19)
deuteron reactions (d,p) with, production of isomeric palladium-111 in, (E), 21:7760
deuteron reactions (d,p) with, proton angular distributions and energy spectra from, (E), 22:5804
deuteron reactions (d,t) at 17 MeV, angular distributions for, (E), 25:28374
deuteron reactions (d,t) at 17 MeV, triton spectra from, (E), 24:40654
effects on ir and Raman spectra of palladium complexes with alkenes, 24:31334
effects on ir spectra of palladium phosphine complexes, 24:31333
effects on spectra of palladium complexes with 2,4-pentanedione, 24:36236
energy level at 373.8 keV from Coulomb excitation, quadrupole moment of, (E), 24:40602 (COO-1746-32)
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy levels and deformation parameters from proton inelastic scattering, (E), 22:35293(R) (ORNL-4230)
energy levels and nuclear properties of, Nuclear Data Sheets for, (E), 25:36808
energy levels from alpha and oxygen-16 inelastic scattering, (E), 25:17893
energy levels from alpha inelastic scattering, spin—parity assignments and γ branching and multipole mining ratios for, (E), 23:9000
energy levels from Coulomb excitation, lifetimes, spin—parity assignments, and transition probabilities for, (E), 23:15490
energy levels from Coulomb excitation, static quadrupole moments of, (E), 24:52630
energy levels from Coulomb excitation, static quadrupole moments for 2^+, (E/T), 25:17910
energy levels from isomeric rhodium-110 decay, (E), 25: 23032(T) (ORNL-tr-2405)
energy levels from proton inelastic scattering, deformation parameters for, (E/T), 25:39005
energy levels from proton inelastic scattering, spin—parity assignments for, (E), 24:43405
energy levels from rhodium-110 decay, spin-parity assignments for, (E), 24:35882
energy levels of, calculation of energy gap in single-particle spectrum of, (T), 22:14017
energy levels of, g factor of first 2^+, (E), 23:42906
energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)

- energy-level transitions from α inelastic scattering with Coulomb excitation, multipole mixing ratios for, (E), 22:35293(R) (ORNL-4230)
- energy-level transitions from proton inelastic scattering, branching ratios for, (E/T), 25:39005
- hyperfine magnetic fields at nuclei in cobalt, iron, and nickel, measurements using ion implantation with perturbed angular correlation method, (E), 22:46267
- hyperfine magnetic fields at nuclei in magnetized gadolinium below Curie point, measurements using ion implantation with perturbed anbular correlation technique, (E), 22:46267
- ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
- neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
- neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
- neutron reactions (n,2n) at 14.4 MeV, activation cross sections for, (E), 24:24575
- neutron reactions (n,2n) at 14.7 MeV, isomeric cross section ratio for, (E), 22:1672
- neutron reactions (n,2n) at 14.8 MeV, cross section for, (E), 25:53743(R) (INR-1318)
- neutron reactions (n,2n) at 14.8 MeV, cross sections and gamma spectra from, (E), 25:59797
- neutron reactions (n,p) at 14 MeV, production of isomeric rhodium-110 from, (E), 25:23032(T) (ORNL-tr-2405)
- nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
- nuclear electric quadrupole moment of, measurement using Coulomb excitation, (E/T), 22:46830
- nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
- nuclear structure of, phonon character of, (E/T), 24:49786 (TID-25477)
- oxygen-16 inelastic scattering at 25 and 30 MeV with Coulomb excitation, angular distributions for, (E), 24:40602 (COO-1746-32)
- oxygen-16 inelastic scattering at 25 and 30 MeV, gamma and oxygen-16 angular distributions and attenuations of gamma distributions from, (E/T), 25:17910
- oxygen-16 inelastic scattering at 28 to 42 MeV, gamma spectra from, (E), 25:17893
- oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:15490
- oxygen-16 reactions (O-16,4n) at 75 MeV, gamma spectra from, (E), 25:28319 (CERN-70-30(Vol.2), pp 905-10)
- photon reactions (γ,n) at 8 to 29 MeV, comparison of experimental and collective-model cross sections for, (E/T), 24:18409 (UM-P-69/18)
- proton differential elastic and inelastic scattering cross sections at 13 MeV, angular distributions for, (E), 22:35293(R) (ORNL-4230)
- proton elastic and inelastic scattering at 13 MeV, differential cross sections for, (E), 24:15925
- proton inelastic scattering at 12 and 13 MeV, DWBA and coupled-channels analysis of angular distributions from, (E/T), 25:39005
- proton inelastic scattering at 13 MeV, differential cross sections for, (E), 24:43405
- proton scattering at 12 MeV, (E), 24:49786 (TID-25477)
- sulfur-32 inelastic scattering at 55 and 56 MeV with Coulomb excitation, angular distributions for, (E), 24:40602 (COO-1746-32)
- sulfur-32 inelastic scattering at 55 and 56 MeV, gamma and sulfur-32 angular distributions and attenuations of gamma distributions from, (E/T), 25:17910

PALLADIUM ISOTOPES Pd-111
- beta decay of ground-state and isomeric, γ singles and coincidence spectra for, (E), 23:25925
- beta decay of ground-state and isomeric, γ spectra from, (E), 25:34133
- beta decay of isomeric, γ singles and coincidence spectra for, (E), 23:19307
- beta decay of, γ spectra for, (E), 23:19261
- beta decay of, γ spectra for, (E), 23:19278
- decay of 22-minute isomer of, (E), 21:15878(R) (MIT-905-81)
- energy levels from palladium-110 (d,p) reactions, (E), 22:5804
- production in charged-particle and photon-induced fission of thorium and uranium isotopes, isomer ratio for, (E), 24:30864
- production of isomeric, in palladium-110 (d,p) reactions, (E), 21:7760
- yields of isomers of, in neutron fission of heavy isotopes, (E), 23:37227

PALLADIUM ISOTOPES Pd-112
- half-life, (E), 25:20339
- yield from nuclear explosions, effects of, on radiation dose to man, 22:23511 (UCRL-70788)
- yields from 14-MeV neutron fission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30825
- yields from plutonium-239 epithermal neutron fission, (E), 24:20389
- yields from the photofission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30842

PALLADIUM ISOTOPES Pd-113
- half-life from uranium-238 (n,f) reactions at 14 MeV, (E) , 25:5740

PALLADIUM ISOTOPES Pd-115
- half-life from uranium-238 (n,f) reactions at 14 MeV, (E) , 25:5740
- half-life, (E), 22:18217
- yields from thermal-neutron fission of uranium-235, 21:2707 (ORNL-3994, pp 1-26)
- yields from uranium-233 and -235 thermal neutron fission, (E), 21:46723 (ORNL-4164, pp 1-23)
- yields in thermal neutron fission of uranium-233 and uranium-235, (E), 22:32579 (TID-24500)

PALLADIUM ISOTOPES Pd-116
- half-life from uranium-238 (n,f) reactions at 14 MeV, (E) , 25:5740

PALLADIUM ISOTOPES Pd-117
- half-life and yield from uranium-235 thermal neutron fission, (E), 22:44736

PALLADIUM ISOTOPES Pd-118
- half-life, (E), 22:29987 (USNRDL-TR-68-25)
- half-life, (E), 24:22170
- yield in uranium-235 thermal neutron fission, (E), 22:29987 (USNRDL-TR-68-25)
- yields from symmetric thermal fission of uranium-235, (E), 24:22170

PALLADIUM OXIDES
- dissociation of solid, 21:46(R) (GA-5611)
- effects as doping additive on electric properties of indium lanthanum oxides, 23:27194
- effects on deuterium exchange reactions between water-d$_2$ and alkyl benzenes, catalytic, 21:10322
- electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
- thermal stability and melting point of, effects of electronic configuration on, 21:22919
- thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
- thermodynamic properties of, at 1700 to 2000 deg K, 21:46(R) (GA-5611)
- Dy$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Er$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Eu$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Gd$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Ho$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Lu$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- Nd$_2$O$_3$—PdO, phase diagram at 700 to 1400°C, 22:48788
- Nd$_2$O$_3$—PdO, phase relations of, in air, 22:19664
- PdO—Sm$_2$O$_3$, phase relations of, in air, 22:19664
- PdO—Tm$_2$O$_3$, phase relations of, in air, 22:19664
- PdO—Y$_2$O$_3$, phase relations of, in air, 22:19664
- PdO—Yb$_2$O$_3$, phase relations of, in air, 22:19664

PALLADIUM SULFATES
- decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)

PALMITALDEHYDE
- metabolism of carbon-14-labeled, in brain of rats, GLC analysis of, 21:20033 (UCLA-12-612, pp 1-14)

PALMITATES
- metabolism in rainbow trout, effects of temperature adaptation on, 22:10740 (BNWL-480, pp 153-93)
- metabolism of carbon-14-labeled, in lungs of rats, effects of breathing nitrogen dioxide on, 25:13356
- radiation effects on distribution of, in phospholipids and triglycerides of Ehrlich ascites tumors, γ, 25:13362 (CEA-R-4039)
- radiation effects on glycogen synthesis in mice livers from carbon-14-labeled glyceryl, whole-body β, 24:34095
- use of carbon-14-labeled, to determine oxidation rate in fat metabolism, 22:14905 (BNL-50057, pp 111-22)

PALMITIC ACID
- carbon-14 retention in lipid fraction of, 25:21542
- content in unsaturated fatty acid fraction from liver of whole-body x-irradiated rabbits, 21:17999
- effects on synthesis of plasmalogens in brain of rats, GLC analysis of, 21:20033 (UCLA-12-612, pp 1-14)
- ester with xanthophyll, use in combination with olive oil, for radiation protection of mice, 21:16423
- radiation effects at 77 to 293°K, ESR studies on free radicals produced by γ, 24:41379
- radiation effects on absorption of, in small intestine of mice, carbon-14 and tritium tracer study of x, 22:49546
- radiation effects on characteristic values of, effects of dose on gamma, 25:31953
- radiation effects on content in rat liver, 21:28377
- radiation effects on content of, in pigeon tissues, effects of bone marrow and thymus transplants on x, 21:16462
- radiation effects on content of, in pigeon tissues, protective effects of heterologous bone marrow and thymus transplants against lethal γ, 21:32783
- radiation effects on incorporation of carbon-14 labeled, into phospholipids of rat serum, liver and bone marrow, γ, 21:26612
- radiation effects on oxidation of carbon-14-labeled, in rabbit liver and thymus, acute cobalt-60 γ, 23:6394
- radiation effects on uptake of, by adipose tissues in rabbits, x, 22:40564
- radiolysis at -196°C, ESR studies on kinetics of radical transformation in γ, 25:26312
- reactions of, with uranium tetrachloride, 21:1353
- separation from liquid scintillation fluid by solvent extraction, 22:10188
- use of carbon-14-labeled, for measuring sorption of fat from intestine, 22:19264
- yields in self-radiolysis of methyl stearate, 22:37802
- alkanes—palmitic acid, solvent properties of, for elements including fission products, 21:14293
- elaidic acid—palmitic acid, radiolysis at -196°C, ESR studies on kinetics of radical transformation in γ, 25:26312
- palmitic acid—urea, radiolysis of clathrate compounds of, at -196°C, ESR studies on kinetics of radical transformation in γ, 25:26312

PALMITIC ACID, ETHYL ESTER
- effects on phagocytosis of colloidal gold-198 in rabbits, 22:12773
- radioprotective effects in mice, evaluation of x, 21:36632

Palmitic Acid, Glyceral Ester
- see Palmitin

PALMITIC ACID, METHYL ESTER
- yields in self-radiolysis of methyl stearate, 22:37802

PALMITIN
- radiation effects on absorption of tri-, in small intestine of mice, carbon-14 tracer study of x, 22:49546

PALMITOLEIC ACID
- content in unsaturated fatty acid fraction from liver of whole-body x-irradiated rabbits, 21:17999
- radiation effects on content in rat liver, 21:28377
- radiation effects on content of, in pigeon tissues, effects of bone marrow and thymus transplants on x, 21:16462

PANAMA
- agriculture in, ecological evaluation of, for nuclear excavation of sea-level canal, 24:9795 (BMI-171-20)
- book: Panama: Four Hundred Years of Dreams and Cruelty, 23:9604
- calcium content of milk in, during 1963 to 1966, 23:31777
- canal excavation in, nuclear operations plan for Route 25E sea-level, 24:2332 (HN-20-211)
- canal excavation in, nuclear operations plan for Route 17A sea-level, 24:2331 (HN-20-210)
- climate and geology in, along proposed routes for sea-level canal,, 25:44469 (TID-25715(Vol.1))
- ecology in proposed canal area of, survey of aquatic, 24:34190
- ecology in vicinity of proposed Interoceanic Canal, 21:39367 (BMI-171-008)
- ecology of Arthropods in, in relation to role in food chain of man, 23:29421 (BMI-171-18)
- ecology of birds of, in relation to dietary habits and role as radioisotope carrier in food chain of man, 23:29420 (BMI-171-17)
- ecology of human populations in, for determining feasibility of nuclear explosions for interoceanic canal, 24:50797 (BMI-171-39)
- ecology of human populations of Azuero Peninsula in, 23:12038 (BMI-171-012)
- ecology of Mammalia of, in relation to role as radioisotope accumulators in food chain of man, 23:29423 (BMI-171-21)
- ecology of vegetation in, classification of, for feasibility studies of proposed Atlantic-Pacific interoceanic canal, 24:48453 (BMI-171-37)
- element cycling through terrestrial ecosystems of, 24:2594 (BMI-171-24)
- elemental content of bones, muscles, and organs of cattle and grasses in, effects of fallout from nuclear explosions on, 24:2301
- environment of Isthmus of, research program for studying effects of new sea-level canal construction on, 25:44473 (TID-25715(Vol.5))
- environmental survey for radiological safety feasibility studies of interoceanic canal, 24:12034 (BMI-171-23)
- fallout in tropical forests of, behavior and distribution of, 21:41010 (BMI-171-001)
- hydrologic and tidal environment in, effects on feasibility of constructing Atlantic—Pacific sea-level canal, 25:44470 (TID-25715(Vol.2))
- hydrology of, effects on redistribution of radioisotopes from nuclear excavation of interoceanic canal, 23:11632 (BMI-171-16)
- nutrient element cycling through tropical rain forests in, 23:45686
- plant populations in terrestrial ecosystems in, transport of stable elements through, 23:45685
- plants found along proposed route for interocean canal in, ethnobotanical dictionary of, 23:13595 (BMI-171-004)
- populations inhabiting eastern region of, demographic characterization of human, 23:9272 (BMI-171-013)
- potassium content of milk in, during 1963 to 1966, 23:31777
- radioactive contamination of aquatic ecosystems of, following nuclear excavation of interoceanic canal, 24:14442 (BMI-171-22)
- radioactive contamination of biosphere in, in vicinity of nuclear explosions for construction of isthmian canal, 24:23153
- radioisotope content of milk in, during 1967 to 1968, barium-140, cesium-137, iodine-131, strontium-89, and strontium-90, 23:31777
- radioisotope content of pasteurized milk in Canal Zone of, during November 1968, barium-140 and strontium-89, 24:2614
- radioisotope ingestion by human population of, for feasibility studies of proposed Atlantic-Pacific interoceanic canal, estimation of potential, 25:10995 (BMI-171-45)
- radioisotope retention by soil in, tracer study of, 23:50467
- rainfall runoff in, low-frequency periodicities in, 25:26117 (SC-DC-713895)
- seismograph stations in, for canal nuclear excavation investigation, 22:35963 (CGS-P-117)
- shales from, residual shear strength of weak, 21:24125 (NP-16699)
- shrimp fishery of, ecological and economic aspects of, 23:4490 (BMI-171-014)
- soils of, content of nutrients in, 23:13596 (BMI-171-15)
- wind conditions along Route 17 in, study of low-level, (E), 25:21199 (ARLV-351-16)
- wind data to 60 km over Battery Mackenzie, Canal Zone, 24:41096 (KN-70-64-(FR))

PANCREAS
- analysis of tissue from, of small animals for heavy metals using sulfide—silver procedure and electron microscopy, 23:31288
- book: Principles of Nuclear Medicine, 22:49411
- calcium-45 uptake by isolated islets of Langerhans in, effects of epinephrine on, 24:31830
- cations in tissues of, microwave spectroscopic determination of, 21:27925
- distribution of iodine-125-labeled iodopropamide in, of dogs, 25:24032
- effects of duct ligation of, on survival of x-irradiated dogs, 25:29651

- effects of extracts of, on iron-59 uptake by rats with fatty livers, 22:49244
- effects of secretions of, on x-radiosensitivity of small intestines of dogs, 22:28632
- function impairment in human, effects on calcium-47 retention, 25:2531
- function of, use of selenium-75-labeled selenomethionine in duodenal aspirate for assessment of, 25:39791
- insulin secretion in beta cells of rat, effects of deuterium oxide and vincristine on glucose-induced, 25:44757
- iodine-125 uptake by, of mice following administration of labeled phenylalanine in relation to use in radiodiagnosis, 24:11920
- iodine-131 uptake by, of man, for use in determination of thyroid function, 21:45690
- lead-210 content in human, effects of cigarette smoking on, 21:26434
- localization of iodine-131 or tritium-labeled phenylalanine analogs in, of mice, autoradiographic study of, 23:38677
- molybdenum-99 distribution in, of rats, effects of administration route on, 25:23969(T) (AEC-tr-7195, pp 186-91)
- nickel-63 content of, in rats, 23:2794
- phosphatidylinositol synthesis in guinea pig, effects of acetylcholine and pancreozymin on, 21:26353
- phosphorus-32 accumulation in, of rats, 23:38436
- phosphorus-32 uptake by, in animals in relation to physical stress, effects of thyroid function on, 23:47930
- plutonium deposition in, of employees and residents at Hanford, use of autopsy for determining, 21:6486 (BNWL-SA-918)
- polonium-210 content in human, effects of cigarette smoking on, 21:26434
- radiation dose to, in normal and tumor-bearing mice following administration of phosphorus-32-labeled chromium alloxantin and orthophosphate, 25:29453
- radiation dosimetry in, of rats following intraperitoneal administration of cobalt radioisotopes, 22:43263
- radiation effects on arylesterase activity in, of rats, whole-body x, 22:33735
- radiation effects on α-amylase activity in, of fish, cobalt-60 γ, 24:44427
- radiation effects on content of isoamylases in rat, following maternal exposure, whole-body x, 23:7947
- radiation effects on dog, following dose fractionation therapy on esophagus, 25:32562
- radiation effects on dry and wet weight of, in mice, effects of dose on x, 22:40947
- radiation effects on enzyme activity and ultrastructure of, in dogs, x, 22:49563
- radiation effects on fine structure and enzyme content of dog, x, 21:12776
- radiation effects on functioning of, uv, 22:33901(T) (JPRS-41315, pp 16-25)
- radiation effects on hematopoietic tissue in, of mice, combined effects of endoxan on, 22:19413
- radiation effects on human, 5 to 31 years following injection of Thorotrast, 23:26924
- radiation effects on human, γ, 25:4452
- radiation effects on isoamylase content of, in fetal and adult rats, x, 23:50886
- radiation effects on protein synthesis in, of rats, effects of anabolic substances on, 21:28602
- radiation effects on secretions of human, therapeutic x, 22:36354
- radiation effects on sugar levels in, of Tilapia nilotica, whole-body γ, 25:21562
- radiation effects on tissue of guinea pig and rat, β, 21:4768
- radiation effects on ultrastructure of, in dogs, protective effects of alloxan against, x, 22:6894
- radiation effects on weight of, in mice, effects of fasting on x, 23:14252
- radiation effects on, of dogs, effects of, on rejection of as transplant, x, 22:43260
- radiation effects on, of dogs, protective effects of alloxan against x, 22:23569
- radiation effects on, of embryonic mice, pathological x, 21:41485
- radiation effects on, of mice, pathological fast neutron, 22:33940
- radiation effects on, of rabbits, combined effects of burns and, 24:34648
- radiation effects on, of rabbits, effects of dose on x, 22:558
- radiation injuries of, induced by use of Thorotrast as contrast medium for angiography, 21:28658
- radiation injuries to, following use of Thorotrast, 21:24573
- radiation protection of ribonuclease of bovine, using substrate analogs, 21:24446
- radioactive rain water effects on, in pregnant mice, 21:435
- radioactivity of tri-n-octyl ester of phosphorus-32-labeled phosphoric acid in, following intralymphatic injection, 21:34710
- radiodiagnosis in dogs and man, use of selenium-75-labeled Selenomethionine for scanning in, 23:50659
- radiodiagnosis of carcinomas of, in man, use of selenium-75-labeled selenomethionine for, 22:28576
- radiodiagnosis of diseases of, 21:14700
- radiodiagnosis of diseases of, effectiveness of selenium-75-labeled methionine scanning for, 25:16245
- radiodiagnosis of dysfunction of, in dogs using iodine-131-labeled oleic acid and triolein, 22:28281 (NYO-2147-13, pp 72-7)
- radiodiagnosis of tumors of, by use of indirect splenoportography, 21:20293
- radiodiagnosis of tumors of, using selenium-75-labeled selenomethionine, 21:6543(R) (NYO-2455-21)
- radiography of, use of selenium-75-labeled selenomethionine for, 21:24484
- radiography of, use of selenium-75-labeled selenomethionine for, 21:26487
- radioimmunoassay of insulin in perfused rat, in vitro, 23:11948 (CONF-671111-, pp 115-28)
- radioisotope content of, effects of method of administration on calcium-45, strontium-89, strontium-90, yttrium-90, and yttrium-91, 23:22151(T) (AEC-tr-6944, pp 7-13)
- radioisotope function studies of, use of selenium-75-selenomethionine as tracer for scintillation scanning for, 21:22571
- radioisotope metabolism in, of animals, comparison of potassium-43 and rubidium-86, 24:16966
- radioisotope scanning of, review of, 25:46927
- radioisotope scanning of, use of selenium-75-selenomethionine for, 21:8844 (COO-78-142, pp 138-41)
- radioprotective effects of removal of, on small intestine of dogs, x, 22:21547
- radiosensitivity of guinea pig, 21:26599
- radiotherapy of carcinomas of human, evaluation of methods for, 23:38711
- radiotherapy of carcinomas of, of man, effectiveness of combined high-energy electrons to surgically exposed site and external x, 24:29825
- radiotherapy of tumors in, of dog and man, performance of iridium-192 γ for, 22:47540
- scanning for diagnosis of carcinomas, effectiveness of, 25:49238
- scanning for diagnosis of diseases of human, using γ camera and selenium-75-labeled selenomethionine, 25:6716 (ACRH-1000-204)
- scanning for diagnosis of diseases of human, using selenium-75-labeled methionine, 25:11199
- scanning for diagnosis of diseases of, using gold-198 and selenium-75 for dual channel scanning, 24:9895
- scanning for diagnosis of diseases of, using selenium-75-selenomethionine, effectiveness of, in comparison to radiography, 24:48623
- scanning for function, use of selenium-75-labeled-selenomethionine with colloidal gold-198 liver image subtraction for, 25:52130 (A/CONF.49/P-631)
- scanning for localization using selenium-75-labeled selenomethionine, 23:29622
- scanning in dogs using selenium-75-labeled selenomethionine, 23:18053 (CONF-670958-, pp 229-45)
- scanning methods for, 25:39360 (ACRH-1000-247)
- scanning of canine, effectiveness of iodine-131-labeled erythrosine B for, 25:19060
- scanning of human and rabbit, use of steric isomers of selenium-75-labeled selenocystine for, 24:11917
- scanning of human, critical review of, 24:34448
- scanning of human, diagnostic value of, 25:55280
- scanning of human, for diagnosis of lesions, effectiveness of multiplane tomographic, 25:24257
- scanning of human, method for, 25:6727
- scanning of human, method for improvement of selenium-75 methionine, 25:44853
- scanning of human, use of selenium-75-selenomethionine for, 24:41934
- scanning of human, using iodine-131-labeled albumin, selenium-75-labeled methionine, and technetium-99-labeled sulfur colloid, 23:41377
- scanning of human, using selenium-75, 25:11197
- scanning of human, using selenium-75 and iodine-131, 24:50997
- scanning of human, using selenium-75, technetium-99, optical meter relay, and single-channel analyzer, 23:48156
- scanning of human, using selenium-75-labeled methionine, 25:11200
- scanning of human, using selenium-75-labeled selenomethionine, review of, 22:49403
- scanning of tumors of, development of radionuclide imaging techniques for, 21:26476
- scanning of, subtraction method for, 25:6722
- scanning of, use of iodine-125-labeled toluidine blue for, 25:11188
- scanning of, use of selenium-75 for, 22:28582
- scanning of, use of technetium-99-labeled cystine, methionine, and polypeptides for, 22:4630 (UCLA-34-P-119-16)
- scanning simultaneously with liver, isotope subtraction technique for, 22:12883
- scanning using gold-198 and selenium-75, dual channel method for, 23:31852
- scanning using gold-198 and selenium-75, performance of differential amplifier for image subtraction during, 25:556
- scanning using selenium-75 and gamma spectrometer, 25:42578
- scanning using selenium-75-labeled methionine, electronic subtraction technique in, 25:46911
- scanning using selenium-75-labeled methionine, technique for cancelling hepatic shadow from, 22:40742
- scanning using selenium-75-labeled selenomethionine, 24:32058(T) (NP-tr-1876)
- scanning using selenium-75-labeled selenomethionine, 21:14675(T) (NP-tr-1495)
- scanning using selenium-75-labeled selenomethionine with metastable technetium-99-labeled sulfur colloid with gamma camera, 24:44560
- scanning using selenium-75-labeled selenomethionine digital data processing for, 23:38670
- scanning with selenium-75 for diagnosis of diseases, use of arteriography and, 24:12198
- scanning with selenium-75-selenomethionine in humans and rabbits, 21:32716
- scanning with selenium-75-selenomethionine, method for, 21:24489
- scintigraphy in man using gold-198 and selenium-75, subtraction method for evaluating, 23:48155
- scintigraphy of human, effectiveness of selenium-75-labeled selenomethionine for, effects of simultaneous scanning of gastrointestinal tract with colloidal gold-198 on, 25:11212
- scintigraphy of human, method for gold-198 and selenium-75, 24:32105
- scintigraphy of human, method for suppression of liver image in gold-198 and selenium-75, 24:25515
- scintigraphy of, effects of isotopic subtraction on specificity of selenium-75, 23:45813
- scintigraphy of, use of iodine-131-labeled albumin for, 23:6522
- scintigraphy using selenium-75-labeled methionine with colloidal gold-198 liver subtraction by means of television reproduction, 25:58059
- scintigraphy using selenium-75-labeled selenomethionine, patient positioning and preparation for, 25:58061
- scintiscanning in man, using radioisotope-labeled Rose Bengal and subtraction method for two photographic images, 23:48153
- scintiscanning of human, 22:33885
- scintiscanning of human, effectiveness of selenium-75-labeled selenomethionine for, 25:55271(T) (LB/G-3059)
- scintiscanning of human, for evaluation of surgery for pancreatitis using selenium-75-labeled selenomethionine, 25:49237
- scintiscanning of human, using gold-198 and selenium-75 for, computer method for differentiation, 25:11176
- scintiscanning of human, using selenium-75-labeled selenomethionine in comparison to x-ray method, 23:48154
- scintiscanning of, methods for, 23:2894
- scintiscanning using iodine-125-labeled analogs of phenylalanine, animal testing of, 23:38677
- scintiscanning using selenium-75-labeled selenomethionine, method using gold-198 deposition in liver for electronic subtraction of liver deposits during, 24:19334
- scintiscanning using selenium-75-labeled selenomethionine with colloidal gold-198 for elimination of liver image, 22:49402
- selenium-75 distribution in rat, effects of intravenously injected pancreozymin and secretin on, 25:26591
- selenium-75 uptake by, of dogs, following intraarterial and intravenous injection, effects of pancreozymin and secretin on, 24:21065
- selenium-75-labeled selenomethionine content in dog, scintigraphy studies, 21:14675(T) (NP-tr-1495)
- selenium-75-labeled selenomethionine uptake by dog, effects of route of administration on, 25:13343
- selenium-75-labeled selenomethionine uptake by guinea pig, medical evaluation of, 22:25714 (COO-78-163, pp 126-36)
- selenomethionine uptake by rat, effect of soybean diet on, 22:38334(R) (COO-1653-45)
- selenomethionine uptake by rat, effects of soybean trypsin inhibitors on, 24:46157 (TID-25502)
- silver-110 content of, of spiny lobster, 22:21409 (PRNC-104, pp 83-9)
- tumor induction in islet cells of rat, by x radiation and 3-methylcholanthrene, 21:6677
- x-ray-diffraction analysis of ribosomes in beef, 21:25805
- zinc content of, in guinea pigs, dogs, man, and rabbits, 22:6721(T) (UCRL-Trans-10099)
- zinc-65 accumulation in, of guinea pigs, 23:26662 (CONF-670649-23)
- zinc-65 content of guinea pig, following intraperitoneal injection, 24:4550
- zinc-65 distribution in rat, 25:21571
- zinc-65 distribution in rat, scintillation measurements on, 25:44760
- zinc-65 distribution in, of mice after removal, 23:43671
- zinc-65 metabolism in, of rats, effects of deoxycorticosterone on, 22:28384
- zinc-65 uptake by, in rats, 23:50699

Pancreatic Hormones
  see Hormones, Pancreatic

PANDA Assembly
  see Exponential Piles

Pandermite
  see Priceite

Panels
  see Structural Panels

Panthenol
  see Butyramide, 2,4-Dihydroxy-N-(3-hydroxypropyl)-3,3-dimethyl-

PANTOTHENIC ACID
  see also Vitamin B Group
- calcium salt, effects on γ-radiation effects on viscosity of albumin, 24:31372
- calcium salt, effects on radiation effects on optical rotation of proteins, 24:5682
- calcium salt, radiation effects on decomposition of, in aqueous solutions, thin-layer chromatography studies on γ, 24:20819

PAPAIN
- effects of, on uptake of vitamin B_{12} by erythrocytes, 21:14592
- effects on antibodies in rabbit serum, 22:19233(R) (COO-209-144)
- effects on γ-radiosensitivity of sodium content of membranes of human erythrocytes, 23:2857
- effects on histidine decarboxylase from rat stomach, 21:17953(R) (NYO-2085-10)
- effects on in situ precipitation of colloidal phosphorus-32-labeled chromic phosphate, 22:51387
- effects on sulfur-35 incorporation by mucopolysaccharide of rat epiphyseal cartilage, 21:22311
- molecular weight of, determination of, using ultracentrifugation, 22:16974(R) (ORO-2832-56)
- radiation effects on activity of, in papaya fruits, γ, 23:10132 (UH-235-P-5-3, pp 3-13)
- radiation effects on inactivation of air-, nitrogen-, and nitrous oxide-saturated solutions of, effects of cysteine on repair following x, 25:44772
- radioinduced inactivation of, comparison with photodynamic inactivation, γ, 23:20114
- radioinduced inactivation of, in aqueous and hydroalcoholic solutions, γ, 22:51455

radiolysis of, reduction of sulfur bridges following pulse, 24:44423
radioprotective effects of, on survival of rats, γ, 23:41344 (AD-688374)

PAPAVERINE
effects on postirradiation retention of stomach contents of rats, 22:21556
radioprotective effects on mitosis in cultured human kidney cells, x, 25:49294
use in absorptiometric determination of molybdenum, 23:2193

PAPER
see also Filter Papers
analysis by neutron activation, 24:50356(R) (GA-9822)
analysis by neutron activation for identification, 25:57374
analysis by neutron activation methods, 22:22929(R) (GA-8013)
analysis by neutron activation, forensic applications of, 25:20947 (GA-10113)
analysis for trace amounts of elements by neutron activation, statistical studies on, 25:48467 (CONF-710402-(Vol.2), pp II.81-6)
analysis of chromatographic, by neutron activation, review of, 23:31319
ash rate and layer weight of, use of x-ray fluorescence analysis for determining, 23:6315
bullet holes in, neutron activation methods for identification of, 21:45041
coating and filler materials for, radioisotope x-ray spectrometric method for measuring content and distribution of, 24:50520
coatings and fillers in, radiometric method for measurement of content and distribution of, 25:336(P)
coatings on, radiometric method for determination of weight of, 24:50523(P)
density measurements on, design of radiometric densimeter for, 23:50204
development of fiber-base, for thermal insulation, 21:3458(R) (ALO-3632-7)
development of low mineral content, for use in diapers for collection of feces and urine samples from human infants, 22:40732
ignition from thermal radiation of nuclear explosions, 21:19781(R) (AD-640595)
oxidation of waste, analysis of products from wet, 25:10433 (ORNL-4636, pp 1-7)
processing of, tracer technique for measuring stream pollution from, 21:12585 (RLO-1951-1)
processing quartz fiber, for thermal insulation, 21:24707(R) (ALO-3632-14)
production in Sweden, use of tracer techniques in, 21:39145
production in USSR, uses of radiometric instruments in processes for, 25:51697 (A/CONF.49/P-465)
production of, conference on uses of radioisotopes in, 23:47713 (STI/PUB-202)
production of, control of stream pollution by plants for, 22:30779
production of, design of beta areal-weight meter for controlling machine for, 22:6665
production of, effects of low-cost nuclear power on economics of, 23:28780 (CONF-680810-, pp 205-18)
production of, radioisotope x-ray techniques for process and quality control in, 25:51689 (A/CONF.49/P-6)
production of, use of radioactive tracer techniques in, 24:16674 (RLO-1951-3)
production of, use of radioactive tracers in process flow studies for, 22:14703
production of, use of radioisotopes in, 23:9659
production of, use of radioisotopes in, 22:47297
production of, use of tracer techniques in, 22:14701
properties of copper flake-opacified Refrasil quartz, for use in thermal insulation, 21:16588(R) (ALO-3632-11)
properties of glass-fiber, for use in thermal insulation, 21:16588(R) (ALO-3632-11)
properties of, radiometric gage for measuring, 25:26543(P)
properties of, tabulations of mechanical and physical, 22:4731
radiation chemistry of, used in gloveboxes for plutonium fabrication, 23:47466 (RFP-1376)
radiation effects on electric insulating properties of phenoplast, electron and γ, 23:40767
radiation effects on properties of, γ, 25:15651
radiation effects on pulp to produce strengthened, 23:19766(P)
radioinduced crosslinking of coatings on, 24:18983 (CEA-CONF-1413)
radioinduced graft polymerization of cellulose, with monomers, dry and wet tensile properties of products from electron and γ, 23:45306 (IRI-133-69-6)
radioinduced graft polymerization of styrene with, effects of quality of paper and irradiation conditions on, 24:46242 (AAEC/TM-540)
radioinduced graft polymerization with acrylonitrile or styrene, wet mechanical strength of products from γ, 24:31392
radioinduced grafting of vinyl monomers to rolls of, γ, 25:37419(P)
radioinduced polymerization with methyl methacrylate, γ, 23:49842
thickness measurements of, use of beta backscattering technique for, 22:6663 (INR-808/XV/J)
thickness of, use of beta backscattering method for determining, 22:28197

Paper Chromatography
see Chromatography

PAPP
see Propiophenone, p-Amino-

Par Event
see Plowshare Project

PAR POND (S.C.)
thermal pollution by effluent of nuclear power plant, effects of, on growth of turtle populations, 24:48472

PARABIOSIS
effects of, of non-irradiated and x-irradiated dogs on intestinal absorption, 21:4758
effects of, on number of circulating lymphocytes, in rats, 21:14137 (UCRL-16898, pp 53-63)
effects of, with normal partner on marrow regeneration and survival in γ-irradiated dogs, 21:9000
effects on germ cell chimerism in uv-irradiated frog embryos, 22:33917
effects on γ-radiosensitivity of rats, 24:36809(R) (NYO-3777-33)
effects on immune reactions and serum proteins of chickens, effects of bursectomy on, 23:41439
effects on kidneys of x-irradiated rats, 22:19423
effects on neurons of spinal cord of x-irradiated rats, 22:49567
effects on testes of irradiated rats, 21:36694
effects on x-radioinduced pneumonitis in rats, 22:40862
effects on x-radioinduced saccharin-avoidance behavior in rats, 23:31921
effects on x-radiosensitivity of rats, comparison of, to bone marrow transplants, 21:30866
effects on x-radiosensitivity of rats, effects of partner shielding on, 21:30837
immune reactions in lethally irradiated hybrid mice during, 22:40536
radiation effects on bone-growth of rats during, x, 21:11012
radiation effects on tolerance to transplantation antigens during, of mice, x, 22:21419
radioinduced carcinomas in shielded and unshielded rats during, x, 21:16482
radioinduced pulmonary carcinomas following rat, whole-body x, 21:28617
radioprotective effects of, against hematopoietic and intestinal death of rats, x, 23:45787
radioprotective effects of, on hybrid mice, x, 24:21296
radioprotective effects of, on rats, whole-body x, 21:39446(R) (NYO-3777-7)
radioprotective effects of, on survival of rats, 23:29564 (AD-678530)
radioprotective effects on rats from lethal effects of x radiation by shielding of partner in, 21:24552 (USNRDL-TR-67-27)
use of, for study of γ radiation effects on rat bone marrow, 21:8999

PARACHUTES
construction and performance of inflatable, for deceleration of ionospheric probe instrumentation, 21:24256
deployment of ribbon, at low altitudes, supersonic and transonic, 25:48405 (SC-DC-714022)
design and development of three-stage, for low-level deployment at Mach 1.2, 21:30327 (SC-DR-66-2707)
ejection system for, design and testing of power-driven, 21:35818 (SCL-DR-64-134)
simulation of guided, payload system, analog, 25:37224 (SC-DR-710097)

[2.2]Paracyclophane
see Tricyclo[$8.2.2.2^{4,7}$]hexadeca-4,6,10,12,13,15-hexaene

Paradentium
see Periodontium

Paradise Point Reactor
see Karachi Power Reactor

PARAFFIN
(Reserved for hydrocarbon wax; for compounds of the paraffin series see Alkanes and the specific compounds.)
see also Alkanes
alpha particle stopping power at 5 MeV in, Bragg law for, 24:9668(T) (ORNL-tr-1861)
alpha particle stopping power of, at 0.5 to 5 MeV, (E/T), 21:27014
alpha particle stopping power relative to air and hydrogen at 0.3 to 5 MeV in, (E), 24:9668(T) (ORNL-tr-1861)
bulk shields of, comparison of Monte Carlo and discrete-ordinate calculations with fast neutron spectra measurements in, 23:12942 (AERE-R-5773(Vol.1), pp 241-60)
cosmic-ray reactions with, gamma production in, (E), 23:22944 (N-68-37235)
cosmic-ray reactions with, neutron production in, (E), 24:8364
density of, measurement by gamma backscatter, 25:15858
diffusion of radon-220 and radon-222 in, 23:6268
effectiveness for local shielding of animals against protons, 21:16347(T) (JPRS-38272, pp 306-7)
effects of binders of, on degassing of uranium dioxide pellets under argon or hydrogen atmosphere, 25:32775 (UJV-2372-M)
effects on fabrication of plutonium carbide-uranium carbide ceramics, 21:20555
evaluation as ultrasoft x-ray reflector, 21:22158
gamma absorption coefficient of, (E), 25:27826 (DEMO-70/11)
gamma scattering by, dosimetric examination of, (E), 25:40760
graphite—paraffin systems, neutron wave propagation in, (E), 23:49305
meson (μ^-) depolarization in, 22:21860
meson (μ^-) polarization in, temperature and chemical structure effects on, 23:44152
meson (μ^-) residual polarization in, 22:38718 (JINR-P14-3809)
neutron attenuation at 0.5 to 18 MeV, 25:17257 (NIRS-9, pp 1-14)
neutron attenuation at 0.5 to 18 MeV in nonborated and borated, monoenergetic, 25:33399
neutron attenuation by, high-energy, 23:51748
neutron diffusion parameters in cylindrical assemblies, thermal, (E), 23:8914
neutron dose rate removal cross sections and buildup factors for, (E/T), 24:12875(T) (ORNL-tr-2247)
neutron dose rate removal cross sections and buildup factors for, (E/T), 25:30637
neutron penetration in, fast-, (E/T), 25:38538
neutron reflectors of, criticality studies in system using, 21:38668 (ORNL-CDC-1)
neutron slowing down in, anomalous, (E), 23:17064
neutron slowing down time in, fast, (E), 24:13265
neutron slowing-down time in, (E), 23:19116 (JAERI-1168)
neutron spectra in homogeneous infinite cylindrical and spherical shields of, fast, (E/T), 21:38200
neutron spectra in shield assemblies with iron, 23:48956 (N-69-32341)
neutron spectra in shields of, comparison of discrete-ordinates and Monte Carlo calculations with measurements of fast, 24:8515 (AD-815658)
neutron spectra in, for various temperatures and poisons, 21:2581 (GA-5319)
neutron transmission through, spectral variations in fast, (E), 21:19160
nuclear magnetic resonance in rotating magnetic fields, 22:22250
performance as lubricant for prestressing tendons in concrete reactor pressure vessels, 23:40959 (GAMD-9379)
positronium annihilation in magnetic field in, two-quanta angular correlation of photons from, 25:33073
properties as scintillator in whole-body counter, 21:34482
proton reactions with phantoms of, use of activation detectors for measuring absorbed doses and fluences from, 22:14865
radiation effects on thermal conductivity of, effects of dose and temperature on, 21:4556
radioinduced electret effect in, model for, (T), 21:27236
radioinduced electrets in, charge of β, (E), 21:3920
radioinduced graft polymerization of styrene on, γ, 22:27752
radiolysis of biphenyl in liquid, formation and decay of transients in electron pulse, 24:41331
radioprotective effects of shielding of dogs with, proton, 23:12195(T) (JPRS-45483, pp 99-104)
radon-220 and -222 diffusion in, constants for, 21:21931
reactions with stearic acid in polyethylene vial, preparation of homogeneous oxygen standards for activation analysis by, 24:4249
shielding of slow neutrons and gamma rays by block of, (E), 21:16361
solvent properties of liquid, for xenon-133 at 37°C, 21:39336
sorptive properties of, for sodium fluoride, 21:10393
H_3BO_3—paraffin, neutron spectra and dose in, deviation from 1/E, 22:24821
paraffin—UF_4, neutron age and infinite medium multiplication factor measurements in, 23:4449

Paraffins
see Alkanes

PARAGUAY
radioactivity in atmosphere of Asuncion, β, 24:36419

PARALDEHYDE
yields in gamma radiolysis and uv photolysis of nitroethane, 22:10298

PARAMAGNETIC MATERIALS
see also Magnetic Materials
see also Paramagnetic Salts
book: Electron Paramagnetic Resonance of Transition Ions, 24:30407
effects of impurity, on current flow in single zone superconductors, (E), 24:6203
effects on superconductors, (T), 22:48050
gamma angular correlations from powder sources of, zero-field resonance in, (T), 22:46844
gamma angular correlations from, single crystals of, resonances from repelling levels in perturbed, (T), 22:46845
interactions in crystalline, spin—lattice, 21:5322(R) (N-66-29299)
Moessbauer hyperfine spectra of, theory of line shape of, 24:51856
neutron inelastic scattering by spin fluctuations in, (E/T), 22:24806
neutron inelastic scattering by trivalent rare-earth ions in octahedral crystal fields, thermal, (E), 22:32423 (CONF-670969-1)
neutron inelastic scattering by, cold, (T), 21:38352
neutron inelastic scattering by, gaussian approximation method for analysis of, (T), 23:17055
neutron scattering at 0.001 to 0.12 eV, cross sections for, (T), 22:22537
neutron scattering at high temperature, calculations using Ising model, 21:23272
neutron scattering by acoustic vibrations in strong magnetic fields in, cross section of slow, (T), 23:28225
neutron scattering by rare-earth, (E/T), 22:11944(R) (AECL-2780)
neutron scattering by short-range ordered, 23:42450
neutron scattering by, calculations using cluster model and Heisenberg model, (T), 22:18084
neutron scattering by, calculations using Ising model, (T), 22:13916
neutron scattering by, exchange constants for, (T), 22:13915
neutron scattering by, frequency transform of time-dependent two-spin autocorrelation function for, (T), 23:10927
neutron scattering cross sections for, temperature dependence of, (T), 21:40473(R) (PR-P-74)
neutron scattering cross sections for, temperature dependence of, (T), 21:44537
nuclear hyperfine structure splittings in, measurement using rf resonance destruction of nuclear orientation, (E/T), 22:46222
nuclear orientation in phonon thermal conductivity of, dynamic, (T), 22:5423
paramagnetic centers in, symmetry and microwave spectra of polyatomic, 25:15456(T) (SC-T-713005)

  properties, lectures on EPR studies of, 22:34743 (ISS-67/34)
  spin autocorrelation function for, solution of kinetic equations for, 22:17736
  spin—phonon interaction in, (T), 22:24415(T) (AD-665707)
Paramagnetic Resonance
    see Electron Paramagnetic Resonance
PARAMAGNETIC SALTS
    see also Paramagnetic Material
  nuclear spin relaxation times in, (E), 22:31961
  temperature scale below 1°K for zinc neodymium nitrate single crystals, gamma-ray anisotropic, 25:11852
Paramecium
    see under Protozoa
Paramorphine
    see Thebaine
PARANASAL SINUSES
  radiography of human, methods for optimal x, 25:13507
  radioinduced carcinomas of human maxillary, following diagnostic thorium administration, 25:27050
Paraoxonase
    see Arylesterase
PARAROSANILINE CYANIDE
  performance as colorimetric dosimeter for gamma- and x-ray dosimetry in megaroentgen range, 23:31565 (UCRL-50007-68-3, pp 25-34)
PARASYMPATHOMIMETICS
    see also Carbachol
PARATHION
  radioinduced degradation of, effects of, on toxicity to Drosophila, 24:34101
PARATHYROID GLANDS
  ablation in mice using iodine-131 combined with surgery, 25:35084
  activity in rats, effects of dietary calcium and phosphate content on, 22:6201 (CU-2530-10)
  activity in rats, effects on sodium turnover in bones, 24:25374
  effects of removal of, on γ-radiationn effects on weight of submandibular glands in rats, 25:24422
  extracts of, effects of, on thyroxine secretion rate in female rats, 23:50238 (COO-1758-16)
  function in female rats, effects of content of uranium in drinking water on, 22:51376
  function in man in relation to secretion of parathormone, 23:11953 (CONF-671111-, pp 207-29)
  function tests of, use of strontium-85 uptake at different levels of calcium intake for, 21:22518
  localization in rats using iodine-125 and selenium-75, 23:43808(R) (NYO-3442-15)
  metabolism in, use of selenium-75-labeled selenomethionine for determining, 23:2851(R) (NYO-910-71)
  radiation effects on, during treatment for hyperthyroidism, iodine-131 β, 22:47618
  radiation effects on, effects of x, on calcium-45 uptake by bones and teeth of rats, 21:20385
  radiation effects on, of rats, comparison of effects of, on odontogenesis to effects of head irradiation, 21:24652
  radiodiagnosis of adenoma of, using scintillation cameras and selenium-75-labeled methionine, 21:10968
  radiodiagnosis of adenomas in human, 22:28596
  radiodiagnosis of adenomas in, double tracer method for, 21:30826(R) (COO-1653-28)
  radiodiagnosis of tumors of, using scintigraphy with selenium-75-labeled methionine, 21:10919(T) (NP-tr-1490)
  radioimmunoassay for function evaluation of, 23:26835
  removal by surgery, effects of, on calcium-47 metabolism in dogs, 23:38435
  removal by surgery, effects of, on radioisotope metabolism in rats on phosphate diets, 24:23088
  removal from goats, effects of, on calcium-45 metabolism, 22:420 (COO-1339-16)
  removal of rat, effects of, on calcium and phosphate content in blood of rats, 22:6200(R) (COO-1668-3)
  removal of, effects of, on calcium metabolism in rats, 22:6716 (ORO-284-10)
  scanning for localization of mediastinal adenomas of, by selenium-75 scanning, 23:33758
  scanning in dogs, use of sulfur-35-labeled toluidine blue for, 24:17104
  scanning of human, methods for, 23:50739
  scanning of human, using calcium-47, fluorine-18, iodine-131, and strontium-85, 23:2851(R) (NYO-910-71)
  scanning of tumors of, development of radionuclide imaging techniques for, 21:26476
  scanning of, use of iodine-125-labeled toluidine blue for, 25:11188
  scanning of, use of iodine-131-labeled Toluidine Blue O for, 23:10022
  scanning of, use of selenium-75 for, 22:28582
  scanning using carbon-11-labeled toluidine blue or selenium-75-labeled selenomethionine, 24:758(R) (NYO-910-123)
  scanning using selenium-75-labeled methionine, 23:50660
  scanning using selenium-75-labeled selenomethionine, 24:34489
  scanning using selenium-75-labeled selenomethionine, 23:12148 (NYO-910-75, pp 10-26)
  scanning using selenium-75-labeled selenomethionine, review of, 24:44552
  scanning using selenium-75-labeled toluidine blue, in dogs, 23:35801
  scanning, comparison of quantitative computer-analyzed methods with photoscans for, 23:2851(R) (NYO-910-71)
  selenium-75 uptake by, of rats, 23:43808(R) (NYO-3442-15)
  selenomethionine uptake by, of rats, effects of calcium content in diet or EDTA on, tracer study, 21:30826(R) (COO-1653-28)
  selenomethionine uptake by, of rats, effects of EDTA on, 22:38334(R) (COO-1653-45)
  tumor localization in, use of selenium-75-labeled selenomethonine for, 22:12882
  uptake of toluidine blue by, in dogs, tracer studies of, 23:35801
  uptake of tritium-labeled neutral red and toluidine blue by, of dogs, 25:16017
  visual localization of tissues of, during surgery following injection of toluidine blue, 24:17104
Parathyroid Hormones
    see Hormones, Parathyroid
Parity
    see Elementary Particles
Parity Conservation
    see Invariance Principles
PAROTID GLANDS
  iodine-125 distribution in cells of, in thyroidectomized guinea pigs, autoradiographic study of, 23:50287
  radiation effects on function and structure of rat, x, 25:19119
  radiation effects on growth of, in sialadenotrophic rats, x, 24:34684
  radiation effects on human, γ, 25:4452
  radiation effects on rat, protective effects of isoproterenol against x, 23:43800
  radioinduced atrophy of, of rabbits, comparison of surgical method with x, 23:22418
  radiotherapy of adenoid cystic carcinomas in human, combined effects of surgery on cobalt-60 or radium γ, 22:8587
  radiotherapy of neoplasms of, in man, effects of dose on cesium-137 γ, 24:2757
  radiotherapy of tumors of, in man, high-energy electron, 22:51742
  scanning of human, use of metastable technetium-99 for, 25:42572
  scintiscanning of human, using technetium-99-labeled pertechnetates, 22:31183
PARR (Pakistan Research Reactor at Nilore)
    see Reactors, Research
Parr Shoals Power Reactor
    see Carolinas-Virginia Tube Reactor
Partial Differential Equations
    see Differential Equations
Partially Conserved Axial Vector Current
    see Current Algebra
Partially Conserved Tensor Current
    see Current Algebra
Particle Accelerators
    see Accelerators
PARTICLE COLLECTORS
    see also Cascade Impactors
    see also Electrostatic Precipitators
    see also Filters
  design of balloon-borne, for radioactive stratospheric debris, 21:8464
  design of high-volume airborne, for radioactive droplets, 22:19012
  design of, for sampling aerosols, 21:12751(R) (TID-23456)
  development of column, for radioactive fallout, 25:26559
  efficiency of charcoal-loaded organic vapor respirator, for radioiodine, 22:35939 (ANL-7429)
  efficiency of fine wire, 24:14119 (BNWL-1051(Pt.1), pp 46-51)
  efficiency of fine wires, 23:9560 (BNWL-715-3, pp 96-100)
  performance for monitoring radioactive aerosols in work areas, 22:21538
  performance for monitoring radioactive aerosols in breathing zones and work areas, 22:21537
  performance for monitoring radioactive aerosols in breathing zones of personnel, 22:21536
  use of fixed and personal, during processing of plutonium and uranium, 21:39398 (LA-DC-8608)
PARTICLE MICROSCOPES
    (Non-optical microscope using Ions other than electrons.)
    see also Electron Microscopes
  description of proton scattering, 23:16675
  design and performance of atom probe field ion, 25:3991 (UCRL-20303)
  design of, 24:19272(P)
  design of proton scattering, 22:43168
  ion source for, properties of duoplasmatron, 24:44355
  use in analysis of molybdenum—tantalum alloy surfaces, 23:27110
Particle Models
    see Elementary Particle Models
PARTICLE PRECIPITATORS
    see also Cascade Impactors
    see also Cyclone Separators
    see also Electrostatic Precipitators
  design and efficiency of submicron, for studies of water vapor diffusion in air and condensation, 23:29066
  development of electrophoretic, for separation of cellular, molecular, and subcellular biological materials, 22:33586 (UCLA-12-640, pp 31-44)
PARTICLE SOURCES
    see also Alpha Particles
    see also Beta Sources
    see also Deuteron Sources
    see also Electron Sources
    see also Ion Sources
    see also Irradiation Facilities
    see also Neutron Sources
    see also Proton Sources
    see also Radiation Sources
    see also Radioapplicators
  design of charged, with low neutral gas flow rate, 22:41625(P)
  design of strontium-90, for extracorporeal exposure of blood, 23:38737
  detection probability for parallel-disk, using coaxial detecting disk in parallel plane, 21:28241
  dosimetry of strontium-90—yttrium-90 applicator, effects of shielding on, 23:50516
  emission from point, with exponential decrease in output, (T), 24:18047
  path-length distributions for anisotropic heavy charged, (T), 21:24914
  properties of atomic-beam polarized, 21:21345
  replacement in Van de Graaff accelerators, device for efficient, 21:19131(P)
PARTICLE STATISTICS
    see also Bosons
    see also Fermions
    see also Many Body Problem
  Bose gases and finite geometries in, 22:39221
  Bose—Einstein, Green temperature functions for, 22:7407
  Bose-Einstein, asymptotic expansions for, 22:5484
  Brownian motion in quantum fluid, theory of low-temperature limit, 21:33564
  density-matrix variational principles at finite temperatures, (T), 22:3223 (UCD-CNL-82)
  Dirac density matrix, asymptotic expansions of, 21:17005
  displacement and collective variables method of quantum, 22:5478
  energy current and stress tensor operators in many-body systems, 21:9687
  equation for density matrix and role of free Hamiltonian in evolution of dynamical systems, 22:32023 (ITF-68-5)
  equation of motion in classical, invariances of, 21:7389
  equation of state of degenerate Fermi gas of hard spheres, (T), 22:8964
  functional formalism application to classical, (E), 22:41700
  geometrical and tensorial Lorentz transformations in, 22:29603
  Goldstone theorem and the Jahn—Teller effect, 21:37646
  Green's function and density-density correlation function relationship for large Bose system in, (T), 22:41699
  Green's functions of system of interacting particles, solution of Schwinger equation for, 22:32025
  Hermite's reciprocity law and angular-momentum states of equivalent particle configurations, 23:27729
  interactions, discrete state—continuum or continuum—continuum, (T), 23:30684
  invariance principles in classical and quantum mechanics, 21:18853
  kinetic equations for density matrix and interactions, 22:32021 (ITF-68-3)
  kinetic equations for density matrix and interactions, 22:32022 (ITF-68-4)
  kinetic theory of classical many-particle systems, operator relations in, 22:39218
  kinetic theory of many particle systems, quasi-particle descriptions of classical, 24:37459 (AD-686856)
  limits of quantum theory for, classical, 22:5481
  low-temperature behavior of two-dimensional Bose system, phonon states and long-range order in, 22:39220
  many-body theories, asymmetric ground states in invariant, (T), 21:29178
  of relativistic magnetic anomaly, 22:9493
  one-body Wigner—Moyal density for a locally linear potential of arbitrary dimension, (T), 21:35236 (NYO-1480-75)
  one-dimensional random potential, (T), 22:13622
  para-boson operators for construction of irreducible representations of Sp(4,R), 23:34630
  quantum hydrodynamics for interacting Bose systems in, (T), 22:41717
  quantum mechanics interpretation by means of joint coordinate-momentum representation, 22:15646 (JINR-E4-3687)
  radial distribution functions, necessary conditions on, (T), 21:33578
  radiation from a system of particles, formula for, (T), 21:33563
  rotational symmetry properties of spinless two-particle density matrix, 22:52899
  solution of Ising model, new approach for, 21:44192
  spectral density of Schroedinger equation Green function in many-particle systems, 22:32026
  temperature dependence near phase transitions in quantum mechanical canonical, (T), 22:1372
  theory of second-order transition in interacting system, 21:23146
  thermodynamic properties of degenerate Fermi systems, (T), 22:32027
PARTICLE TRACKS
  analysis and measurement of bubble chamber, 21:28220
  analysis by two stereoprojections, space coordinate, 21:275 (JINR-P-2889)
  analysis in bubble and spark chambers, CHLOE film digitizing system for, 21:34466 (CONF-660527-, pp 177-85)
  analysis in bubble and spark chambers, computer-controlled manual system for film, 22:23322 (SLAC-81)
  analysis in bubble and spark chambers, description of Hummingbird automatic film digitizer for, 22:28165 (SLAC-82)
  analysis in bubble and spark chambers, design of computer-controlled precision film scanner for, 21:17827
  analysis in bubble and spark chambers, detectors for automatic film stop devices for, 21:22126 (CERN-66-36)
  analysis in bubble and spark chambers, estimation of kinematic parameters from, 21:16175
  analysis in bubble and spark chambers, method for, 21:12680(P)
  analysis in bubble and spark chambers, POLLY automatic film scanning system for, 21:34466 (CONF-660527-, pp 177-85)
  analysis in bubble and spark chambers, program control of data link between computers and projectors for, 21:19896 (JINR-P10-3172)

analysis in bubble chamber, flying spot digitizer for, 21:6190 (BNL-9721)
analysis in bubble chamber, THRESH computer program for, 21:10652
analysis in bubble chambers, automatic track following system for photographic analysis of, 21:22131 (NYO-2171-222)
analysis in bubble chambers, BRAVE computer program for, 21:12637 (ORO-2504-99)
analysis in bubble chambers, circuits for fast, 21:16137 (INFN/TC-66/7)
analysis in bubble chambers, COBWEB-IBM 7044/on-line film measuring machines for, 21:24196 (UCRL-17136)
analysis in bubble chambers, computer evaluation of data from digitized microscopes for, 21:36369
analysis in bubble chambers, design and performance of photographic film projector for, 21:19918
analysis in bubble chambers, design of computer-controlled photographic film projector for, 21:19925
analysis in bubble chambers, design of electric signal matching circuits for flying spot digitizers for, 21:30728(P)
analysis in bubble chambers, design of photographic film scanning and measuring table for, 21:19920
analysis in bubble chambers, digital automatic pattern recognition system for, 21:36354 (UCRL-17589)
analysis in bubble chambers, digitizers and CRT film scanners for, 21:32372 (RHEL/R-129, pp 79-95)
analysis in bubble chambers, display control of CRT-film scanning system for, 21:26154 (SLAC-PUB-299)
analysis in bubble chambers, film scanning and measuring system for, 21:18911
analysis in bubble chambers, Hummingbird I scanning system for, 21:14439 (SLAC-PUB-255)
analysis in bubble chambers, image plane digitizers for, 21:16131 (CONF-660918-, pp 336-7)
analysis in bubble chambers, KONRAD automatic scanning and measuring system for, 21:16132 (CONF-660918-, pp 338-54)
analysis in bubble chambers, logic coupling of computers and photographic film projectors for, 21:19917
analysis in bubble chambers, method for, 21:16200
analysis in bubble chambers, operation of Hough Powell device and CRT film scanner for, 21:33811 (RHEL/R-144, pp 61-71)
analysis in bubble chambers, pattern recognition method for, 21:34470 (NP-16781, 49-54)
analysis in bubble chambers, PEPR system for, 21:16129 (CONF-660918-, pp 299-311)
analysis in bubble chambers, performance of Spiral Reader for, 21:28215 (UCRL-17328)
analysis in bubble chambers, photograph scanning and measuring system for, 21:19916
analysis in bubble chambers, review of methods for, 21:34467 (CONF-660527-, pp 195-209)
analysis in bubble chambers, SATR automatic scanning and measuring system for, 21:16130 (CONF-660918-, pp 312-26)
analysis in bubble chambers, SQUAW and TVGP computer programs for, 21:12638 (ORO-2504-100 and Suppl.)
analysis in bubble chambers, stochastic population processes for, 21:8588
analysis in bubble chambers, template for vertex determination for V° decays, 21:19953
analysis in bubble chambers, velocity, 21:16159
analysis in cellulose nitrate and cellulose acetate for detection of light nuclei, 22:16887
analysis in cellulose nitrate for detection of light charged particles, 22:8338 (JINR-P13-3585)
analysis in cosmic- and fission neutron-irradiated biological materials, interpretation of, 24:44616
analysis in cross-wire spark chamber, remote core readout system for, 21:16193
analysis in detectors, scanning efficiency for, 23:7793
analysis in dielectric for charge determination, 22:10564
analysis in dielectric track detectors, spark scanning method for fission fragment, 23:7752
analysis in large bubble chambers, geometry approximations for, 24:23019 (LAL-1227)
analysis in meteorites and tektites for cosmic radiation studies, 24:7629(T) (N-69-38123)
analysis in nuclear emulsions for neutron spectroscopy, random-drift method using automatic microscope for, 22:16895
analysis in nuclear emulsions, automatic scanner for, 23:1929(R) (COO-1265-67)
analysis in nuclear emulsions, automatic scanning system for, 23:1882 (WASH-1093)
analysis in nuclear emulsions, design of automatic recording microscopes for, 21:39246
analysis in nuclear emulsions, development of densitometer for, 25:39758
analysis in nuclear emulsions, digital computer for photoelectric, 21:14432 (IS-1465)
analysis in nuclear emulsions, method for electronic scanning for, 21:17857
analysis in nuclear emulsions, track location using spark chambers for, 24:44318
analysis in plastic foils, semi-automatic scanning methods for high- and low-dose, 25:37613
analysis in SLAC bubble chamber and streamer chamber, photographic techniques for, 22:16907
analysis in solid-state detectors, determination of mass and energy distribution of fission fragments by, 22:14792
analysis in solid-state dielectrics for charged-particle detection, etching techniques for, 22:28120
analysis in solids for charged particle detection, 22:16883
analysis in solids for charged-particle detection, review of, 23:2628
analysis in spark chambers, automatic CRT film scanning system for, 21:14440 (UCRL-17120)
analysis in spark chambers, computer control of flying spot digitizer for, 21:41239
analysis in spark chambers, design of computer-controlled system for, 21:19922
analysis in spark chambers, development of automatic scanning systems for, 21:16135 (CONF-660918-, pp 507-36)
analysis in spark chambers, digitizer for, 21:12670
analysis in spark chambers, HUMMINGBIRD automatic film digitizer for, 21:19903 (SLAC-PUB-251)
analysis in spark chambers, magnetostrictive readout system for coordinate, 21:16176
analysis in spark chambers, photographic film scanning and measuring system for, 21:19924
analysis in spark chambers, vidicon system for, 21:28228
analysis in streamer chambers, method for, 21:17826
analysis in track-sensitive targets in bubble chambers, computer program for, 25:34949 (CONF-700623-(Vol.1), pp 312-24)
analysis in Wilson cloud chamber, characteristic properties of chamber expansion for, 22:43100
analysis of BNL 80 in. bubble chamber, scanning table measurements for film, 22:30860 (UCID-2950)
analysis of breakup event in nuclear emulsions, 25:18795
analysis of bubble and cloud chamber, equipment for automatic film, 24:39359(P)
analysis of bubble and spark chamber, computer program for vertex finding and track matching for, 23:9744 (UCRL-18544)
analysis of bubble and spark chamber, computer program for acquisition of film information for PEPR system for, 25:13242 (CERN-70-21(Vol.1), pp 113-24)
analysis of bubble and spark chamber, computer program for calibration of PEPR system for, 25:13245 (CERN-70-21(Vol.1), pp 177-86)
analysis of bubble and spark chamber, computer-based HPD for, 25:13276 (CERN-70-21(Vol.2), pp 721-7)
analysis of bubble and spark chamber, computer-based system for film, 22:19153
analysis of bubble and spark chamber, conference on PEPR systems for, 25:6560 (MIT-2098-660)
analysis of bubble and spark chamber, conference on flying spot devices for film, 21:41237
analysis of bubble and spark chamber, conference on data handling systems for, 25:13234 (CERN-70-21(Vol.1))
analysis of bubble and spark chamber, conference on data handling systems for, 25:13263 (CERN-70-21(Vol.2))
analysis of bubble and spark chamber, description and performance of CERN spiral reader for, 25:13236 (CERN-70-21(Vol.1), pp 19-36)
analysis of bubble and spark chamber, design of video signal digitizer for film, 23:7912(P)
analysis of bubble and spark chamber, development of PEPR systems at Oxford for, 25:6573 (MIT-2098-660, pp 250-73)
analysis of bubble and spark chamber, development of data processing systems at JINR for, 25:13279 (CERN-70-21(Vol.2), pp 753-60)
analysis of bubble and spark chamber, development of systems for, 25:37647
analysis of bubble and spark chamber, development of PEPR at Nijmegen Univ. for, 25:6562 (MIT-2098-660, pp 27-34)
analysis of bubble and spark chamber, digitized microscope for, 25:13284 (CERN-70-21(Vol.2), pp 851-7)
analysis of bubble and spark chamber, DOLLY film measuring system for, 24:41691 (COO-1195-192)
analysis of bubble and spark chamber, efficiencies of film scanners for, 23:22093
analysis of bubble and spark chamber, film measuring system at JINR for, 23:33523 (ANL-7515, pp 477-80)
analysis of bubble and spark chamber, flying-spot digitizers for, 21:32420
analysis of bubble and spark chamber, geometry reconstruction program for HPD, 25:13273 (CERN-70-21(Vol.2), pp 679-85)
analysis of bubble and spark chamber, glossary of on-line measuring devices for, 25:13294 (CERN-70-21(Vol.2), pp 963-77)
analysis of bubble and spark chamber, high-speed flying image digitizer for film, 22:40459 (BNL-12679)
analysis of bubble and spark chamber, HPD system at Birmingham for, 25:13292 (CERN-70-21(Vol.2), pp 949-52)
analysis of bubble and spark chamber, HPD system at Columbia Univ. for, 25:13253 (CERN-70-21(Vol.1), pp 311-21)
analysis of bubble and spark chamber, Hummingbird film digitizers for, 24:33935 (SLAC-PUB-752)
analysis of bubble and spark chamber, on-line computers for, 21:16250
analysis of bubble and spark chamber, on-line film plane digitizer for, 25:13237 (CERN-70-21(Vol.1), pp 39-46)
analysis of bubble and spark chamber, PEPR system at Washington Univ. for, 25:6568 (MIT-2098-660, pp 114-62)
analysis of bubble and spark chamber, PEPR system at Heidelberg for, 25:13241 (CERN-70-21(Vol.1), pp 105-11)
analysis of bubble and spark chamber, PEPR system at Indiana Univ. for, 25:6564 (MIT-2098-660, pp 76-84)
analysis of bubble and spark chamber, PEPR system at Maryland Univ. for, 25:6565 (MIT-2098-660, pp 85-90)
analysis of bubble and spark chamber, PEPR system at Johns Hopkins Univ. for, 25:6566 (MIT-2098-660, pp 92-106)
analysis of bubble and spark chamber, PEPR system at Rutgers Univ. for, 25:6567 (MIT-2098-660, pp 107-12)
analysis of bubble and spark chamber, PEPR system at MIT for, 25:6570 (MIT-2098-660, pp 175-90)
analysis of bubble and spark chamber, performance of Sweepnik I for, 25:13252 (CERN-70-21(Vol.1), pp 293-308)
analysis of bubble and spark chamber, performance of reverse-developed film for, 25:13286 (CERN-70-21(Vol.2), pp 879-905)
analysis of bubble and spark chamber, performance of Oxford PEPR system for, 25:13239 (CERN-70-21(Vol.1), pp 61-88)
analysis of bubble and spark chamber, POLLY system at Glasgow Univ. for, 25:13255 (CERN-70-21(Vol.1), pp 357-70)
analysis of bubble and spark chamber, Princeton Automatic Track Reader for, 25:13250 (CERN-70-21(Vol.1), pp 273-83)
analysis of bubble and spark chamber, review of principles and methods for, 24:4483
analysis of bubble and spark chamber, SATR system at Wisconsin Univ. for, 25:13262 (CERN-70-21(Vol.1), pp 505)
analysis of bubble and spark chamber, SMP system at UCLA for, 25:13249 (CERN-70-21(Vol.1), pp 243-60)
analysis of bubble and spark chamber, SPASM scanning and measuring system for, 23:17798 (HUX-2752-39)
analysis of bubble and spark chamber, spiral reader system at Weizmann Institute for, 25:13293 (CERN-70-21(Vol.2), pp 953-62)
analysis of bubble and spark chamber, status of PEPR system at Heidelberg for, 25:13246 (CERN-70-21(Vol.1), pp 187-96)
analysis of bubble and spark chamber, status of PEPR system at MIT for, 25:13248 (CERN-70-21(Vol.1), pp 233-42)
analysis of bubble and spark chamber, status of Yale PEPR for, 25:6561 (MIT-2098-660, pp 9-26)
analysis of bubble and spark chamber, Sweepnik II for, 25:13251 (CERN-70-21(Vol.1), pp 285-92)
analysis of bubble and spark chamber, video assisted scan table for, 25:13238 (CERN-70-21(Vol.1), pp 47-58)
analysis of bubble chamber and nuclear emulsion data on, method for statistical, 22:370
analysis of bubble chamber and nuclear emulsion, digitized co-ordinate recording device for microscope for, 24:44320
analysis of bubble chamber and nuclear emulsion, search statistics of rare events in, 23:693
analysis of bubble chamber and photographic emulsion, efficiency of phase holograms for, 21:45406
analysis of bubble chamber and spark chamber, use of CDC 160A computer for, 22:16906
analysis of bubble chamber and spark chamber, use of computers in flying spot digitizer data processing system for, 21:41249
analysis of bubble chamber photographs using HPD digitizer, 21:1573(T) (NP-tr-1413)
analysis of bubble chamber photographs, design of pattern recognition system UCPRI for, 21:28232
analysis of bubble chamber, ambituities of one constraint fit events in, 24:5929
analysis of bubble chamber, Ames on-line computer control system for, 24:19237 (IS-2228)
analysis of bubble chamber, Amsterdam HPD—CDC 3200 system for film, 23:33499 (ANL-7515, pp 164-72)
analysis of bubble chamber, Amsterdam HPD—CDC 3200 system for, 25:13275 (CERN-70-21(Vol.2), pp 709-20)
analysis of bubble chamber, automatic gain control in signal processing for, 25:13257 (CERN-70-21(Vol.1), pp 383-97)
analysis of bubble chamber, Brookhaven raster display for, 22:43103
analysis of bubble chamber, Brookhaven real-time flying spot device program for film, 21:41251
analysis of bubble chamber, BRUSH automatic processing system for, 25:13274 (CERN-70-21(Vol.2), pp 689-707)
analysis of bubble chamber, BRUSH system for on-line HPD data processing, track recognition, and track following in film, 23:33494 (ANL-7515, pp 63-80)
analysis of bubble chamber, BRUSH system for on-line HPD data processing, track recognition, and track following in film, 23:33493 (ANL-7515, pp 48-62)
analysis of bubble chamber, calibration and performance of CERN spiral reader for, 25:13235 (CERN-70-21(Vol.1), pp 5-18)
analysis of bubble chamber, CERN HPD 2 system for film, 23:33497 (ANL-7515, pp 130-9)
analysis of bubble chamber, CERN on-line film plane digitizers for, 24:44312 (CERN-70-19)
analysis of bubble chamber, CERN track-match program for vertex guidance in film, 23:33519 (ANL-7515, pp 431-43)
analysis of bubble chamber, CNAF FSD—IBM 360/44 system for film, 23:33498 (ANL-7515, pp 140-63)
analysis of bubble chamber, Cobweb computer-based data reduction system for film, 23:9743 (UCRL-18528(Rev.))
analysis of bubble chamber, Cobweb data reduction system for film, 23:33500 (ANL-7515, pp 173-83)
analysis of bubble chamber, Coccinelle CRT digitizer for, 25:13256 (CERN-70-21(Vol.1), pp 371-81)
analysis of bubble chamber, Coccinelle system for automatic film, 23:47836
analysis of bubble chamber, Coccinelle system for automatic pattern recognition and event measurement in film, 23:33492 (ANL-7515, pp 6-21)
analysis of bubble chamber, computer, 22:12643
analysis of bubble chamber, computer control system for SLAC spiral reader for, 24:14301 (SLAC-111)
analysis of bubble chamber, computer graphics patching of HPD failed events in, 24:25300 (RHEL/R-190)
analysis of bubble chamber, computer program for, 24:21015 (IS-2230)
analysis of bubble chamber, computer program for, 24:27405 (LUSY-6904)
analysis of bubble chamber, computer program for, 24:27406 (LUSY-6905)

analysis of bubble chamber, computer program for automatic recognition and reconstruction of events for, 25:13243 (CERN-70-21(Vol.1), pp 125-39)
analysis of bubble chamber, computer program for automatic recognition and reconstruction of events for, 25:13244 (CERN-70-21(Vol.1), pp 141-75)
analysis of bubble chamber, computer program for automatic recognition, space reconstruction, and topological interpretation for, 25:49014
analysis of bubble chamber, computer program for bubble density measurements for, 23:9745 (UCRL-18545)
analysis of bubble chamber, computer program for control of scanning equipment for, 25:51890 (IFVE-SPK-70-61)
analysis of bubble chamber, computer program for microscope system for, 25:4369 (IFVE-SPK-69-53)
analysis of bubble chamber, computer recognition of line patterns for, 22:49120
analysis of bubble chamber, computer-aided measuring projector for, 25:48993 (SJC-T-70-4)
analysis of bubble chamber, computer-based measuring projector for, 25:13272 (CERN-70-21(Vol.2), pp 665-73)
analysis of bubble chamber, computer-based system at Munich for, 25:13287 (CERN-70-21(Vol.2), pp 907-9)
analysis of bubble chamber, conference on PEPR system for film, 23:16149 (CONF-680628)
analysis of bubble chamber, control program for Ames on-line system for, 24:19238 (IS-2229)
analysis of bubble chamber, coordinate reconstruction of fiducial marks and camera positions for, 23:9747
analysis of bubble chamber, correction for geometrical losses in, 22:23321 (CERN-68-10)
analysis of bubble chamber, counter computer for, 24:11843
analysis of bubble chamber, DAPR system at LRL for, 25:8548 (UCRL-20126)
analysis of bubble chamber, DAPR system for film, 23:33506 (ANL-7515, pp 275-98)
analysis of bubble chamber, data terminal network computer system for film, 22:36103
analysis of bubble chamber, description of 7-in. CRT PEPR system at Nijmegen for film, 23:16155 (CONF-680628-, pp 119-25)
analysis of bubble chamber, description of CERN HPD road guidance system for film, 21:41252
analysis of bubble chamber, description of FSD—IBM 7094 system for film, 21:41259
analysis of bubble chamber, description of HPD programs at Saclay for film, 21:41257
analysis of bubble chamber, description of on-line IEP and SMP film scanning and measuring systems for, 21:41244
analysis of bubble chamber, description of PATR system at Princeton for film, 23:16156 (CONF-680628-, pp 126-32)
analysis of bubble chamber, description of PEPR for film scanning and measuring, 22:38092
analysis of bubble chamber, description of POLLY 1 operator-assisted computer-based system for film, 23:16154 (CONF-680628-, pp 72-103)
analysis of bubble chamber, design and performance of HPD Mark 2 flying-spot digitizer for film, 22:23320 (CERN-68-4)
analysis of bubble chamber, design characteristics of spiral reader for film, 23:11849 (SLAC-PUB-529)
analysis of bubble chamber, design of digitized spiral reader for film, 23:47835
analysis of bubble chamber, design of fast digitizer for automatic film, 22:36101
analysis of bubble chamber, design of film advance system for spiral reader for, 23:47827
analysis of bubble chamber, design of film projector for, 21:8575 (CEA-R-3046)
analysis of bubble chamber, design of Munich HPD system for film, 21:41262
analysis of bubble chamber, design of POLLY for film, 21:41265
analysis of bubble chamber, design of scanning projector for film, 23:2650
analysis of bubble chamber, design of scanning table for film, 23:2649
analysis of bubble chamber, design of scanning table for film, 23:2648
analysis of bubble chamber, development of automatic scanner at Columbia University for film, 21:41270
analysis of bubble chamber, development of cathode-ray tubes and associated coils for film, 23:16157 (CONF-680628-, pp 133-40)
analysis of bubble chamber, development of DAPR for automatic film, 22:38094
analysis of bubble chamber, development of DAPR HPD system for automatic film, 23:45545 (UCRL-19210)
analysis of bubble chamber, development of equipment and methods for, 23:33528
analysis of bubble chamber, development of HPD minimum guidance program for film, 21:41267
analysis of bubble chamber, development of light spot device for film, 21:45429(P)
analysis of bubble chamber, development of PEPR for, 22:30856 (MIT-2098-422, pp 10-12)
analysis of bubble chamber, development of RIPPLE semiautomatic device for, 22:47371(R) (ORO-3065-16)
analysis of bubble chamber, development of Stereo Analogue Track Recognition machine for film, 21:41269
analysis of bubble chamber, distribution function for Coulomb multiple scattering effects for, 25:8559
analysis of bubble chamber, DOLLY scanning system for, 23:11847 (COO-1195-154)
analysis of bubble chamber, double precision version of TVGP reconstruction program for, 24:44315 (UR-875-315)
analysis of bubble chamber, effects of multiple scattering on film, 22:363
analysis of bubble chamber, electronic specifications of Spiral Reader MP-IIB system for film, 22:30859 (UCID-2842)
analysis of bubble chamber, errors in estimation of total events in, 24:48324
analysis of bubble chamber, evaluation of Image-Plane Digitizers for film, 22:4476 (UR-875-219)
analysis of bubble chamber, event selection criteria for, 22:49121
analysis of bubble chamber, facility for film, 25:35062
analysis of bubble chamber, film, 22:43099
analysis of bubble chamber, film density—particle momentum relations for, 24:19239
analysis of bubble chamber, filtering method for, 24:16889
analysis of bubble chamber, filtering of data from flying spot device prior to IBM 7049 film, 21:41261
analysis of bubble chamber, flying image digitizer for, 24:25303(P)
analysis of bubble chamber, flying spot digitizer bubble density measurements for, 23:9742 (BNL-13012)
analysis of bubble chamber, gain stabilization in photomultipliers of HPD system for film, 23:47829
analysis of bubble chamber, geometrical reconstruction computer program for, 22:38080(T) (CERN-Trans-67-8)
analysis of bubble chamber, global method of fiducial recognition with fish-eye lenses for, 25:13261 (CERN-70-21(Vol.1), pp 497-503)
analysis of bubble chamber, grid guidance program for PEPR film scanner for, 25:13247 (CERN-70-21(Vol.1), pp 199-211)
analysis of bubble chamber, GRIND computer program for, 24:36624
analysis of bubble chamber, HPD Minimum Guidance programs for, 25:13278 (CERN-70-21(Vol.2), pp 737-52)
analysis of bubble chamber, HPD performance under control of small computer in film, 21:41256
analysis of bubble chamber, HPD system for automatic film, 23:43602
analysis of bubble chamber, HPD—IBM 360/44 system at Bologna for, 25:13268 (CERN-70-21(Vol.2), pp 617-24)
analysis of bubble chamber, HPD—IBM 360/44 system at Bologna for, 25:13269 (CERN-70-21(Vol.2), pp 625-30)
analysis of bubble chamber, HPD—IBM 360/44 system at Bologna for, 25:13267 (CERN-70-21(Vol.2), pp 607-15)
analysis of bubble chamber, IBM data management system for, 25:13277 (CERN-70-21(Vol.2), pp 729-34)
analysis of bubble chamber, improvement of Spiral Reader for film, 21:41263
analysis of bubble chamber, ionization measurements using television measuring projector for, 23:11860
analysis of bubble chamber, laser ranging device for film, 24:48347(P)
analysis of bubble chamber, least squares and maximum probability methods for, 25:8558
analysis of bubble chamber, LUCY CRT system for, 25:13259 (CERN-70-21(Vol.1), pp 427-65)
analysis of bubble chamber, man—machine cooperation in digital pattern recognition for, 21:39177 (BNL-11572)
analysis of bubble chamber, manual measurement of photographs by scanning with laser beams, 25:49012
analysis of bubble chamber, MATCH reconstruction program for, 25:6575 (MIT-2098-660, pp 383-402)
analysis of bubble chamber, match tests and device requirements for systems for, 25:6557(T) (CERN-Trans-70-8)
analysis of bubble chamber, matrix methods for geometrical, 25:51899
analysis of bubble chamber, measuring projector for, 24:27409 (SJC-T-69-3)
analysis of bubble chamber, method for, 21:8578 (JINR-P10-3023)
analysis of bubble chamber, method for, 25:13233 (CEA-N-1397)
analysis of bubble chamber, method for determining neutral decay points in, 24:29566 (KFKI-70-8-HEP)
analysis of bubble chamber, method for iterative fitting of events involving neutral particles in, 22:49115 (IS-T-265)
analysis of bubble chamber, method for reconstructing momentum vector for, 24:7652
analysis of bubble chamber, methods for film, 23:29228
analysis of bubble chamber, minimizing angle errors due to multiple scattering in, 25:34950 (CONF-700623-(Vol.1), pp 325-33)
analysis of bubble chamber, minimum guidance program at Univ. of Pennsylvania for film, 23:33516 (ANL-7515, pp 401-11)
analysis of bubble chamber, modifications to RHEL geometrical reconstruction programs for, 22:16903 (RHEL/R-150)
analysis of bubble chamber, new HPD filtering technique for film, 21:41254
analysis of bubble chamber, off-line filtering of HPD data for film, 23:47830
analysis of bubble chamber, on-line CDC 8090 computer system for, 25:18776 (USIP-70-3)
analysis of bubble chamber, on-line computer system in Sweden for, 25:13282 (CERN-70-21(Vol.2), pp 825-30)
analysis of bubble chamber, on-line IBM 1130 computer system in Italy for, 25:13288 (CERN-70-21(Vol.2), pp 911-20)
analysis of bubble chamber, operation and performance of HPD system for film, 23:47832
analysis of bubble chamber, operation of LRL computer-based system for, 25:423 (UCRL-19842)
analysis of bubble chamber, operation of SMP film scanning and measuring system for, 21:41247
analysis of bubble chamber, operator intervention in HPD system for, 25:13290 (CERN-70-21(Vol.2), pp 931-40)
analysis of bubble chamber, optical scanning system for, 23:9749(P)
analysis of bubble chamber, PANGLOSS CRT device for, 25:13258 (CERN-70-21(Vol.1), pp 401-25)
analysis of bubble chamber, pattern recognition of four-prong events in HPD film, 23:33517 (ANL-7515, pp 412-20)
analysis of bubble chamber, pattern recognition with line elements for film, 23:33521 (ANL-7515, pp 444-53)
analysis of bubble chamber, PEPR (Precision Encoding and Pattern Recognition) system for film, 22:33663
analysis of bubble chamber, PEPR program for use with IBM-7044 for, 22:12644
analysis of bubble chamber, PEPR system at Heidelberg Univ. for, 25:6563 (MIT-2098-660, pp 37-75)
analysis of bubble chamber, PEPR track following system for, 22:47376
analysis of bubble chamber, performance of DAPR system for, 25:13280 (CERN-70-21(Vol.2), pp 761-804)
analysis of bubble chamber, performance of flying spot digitizer for, 23:14032 (BNL-13189)
analysis of bubble chamber, performance of Glascow SMP film scanning and measuring system for, 21:41246
analysis of bubble chamber, performance of PEPR system for, 24:7679 (CONF-690301-, pp 454-65)
analysis of bubble chamber, performance of PEPR system at Oxford for, 25:6572 (MIT-2098-660, pp 222-49)
analysis of bubble chamber, performance of POLLY II flying spot digitizer for automatic, 24:39352
analysis of bubble chamber, performance of Purdue on-line SMP measuring system for, 24:44313 (COO-1428-209)
analysis of bubble chamber, performance of SLAC spiral reader for, 24:39350 (SLAC-PUB-765)
analysis of bubble chamber, philosophy of three-view PEPR system for, 25:6576 (MIT-2098-660, pp 403-11)
analysis of bubble chamber, POLLY I film measuring system for, 22:47381
analysis of bubble chamber, POLLY II for automatic, 25:6571 (MIT-2098-660, pp 191-220)
analysis of bubble chamber, POLLY II system for, 25:13254 (CERN-70-21(Vol.1), pp 325-55)
analysis of bubble chamber, position control servo system for projection microscope for, 24:39354
analysis of bubble chamber, processing of video signals from spiral reader in film, 23:47837
analysis of bubble chamber, program for linking FSD microscopes with Minsk-2 computer for analysis of, 25:29379
analysis of bubble chamber, programming automatic scanner for ILLIAC III for film, 21:41268
analysis of bubble chamber, programming system of Paris off-line HPD for film, 21:41253
analysis of bubble chamber, programs for calibrating and testing FSD system for film, 21:41260
analysis of bubble chamber, review of data processing systems for film, 21:45373 (UCRL-17635)
analysis of bubble chamber, review on measuring devices for, 25:8554
analysis of bubble chamber, review on role of computers in, 25:37646
analysis of bubble chamber, RIPPLE system for automatic, 25:6574 (MIT-2098-660, pp 347-66)
analysis of bubble chamber, role of human guidance in computer-based systems for film, 23:11845 (BNL-13060)
analysis of bubble chamber, SATR system for three-dimensional film, 23:33495 (ANL-7515, pp 81-101)
analysis of bubble chamber, SATR system three-dimensional film, 23:33496 (ANL-7515, pp 102-19)
analysis of bubble chamber, scanning and measurement systems operating on-line to IBM 1800 computer for film, 23:47834
analysis of bubble chamber, scanning and measurement system operating on-line to computer for film, 22:10604(P)
analysis of bubble chamber, scanning and measurement systems operating on-line to Univac 418 computer for film, 23:47833
analysis of bubble chamber, scanning and measuring projector for, 21:6194 (COO-1195-81)
analysis of bubble chamber, scanning selection system for film, 23:11851
analysis of bubble chamber, scanning table for, 21:6192 (CEA-R-3045)
analysis of bubble chamber, scanning—measuring table for, 24:44314 (IFVE-SEF-69-32)
analysis of bubble chamber, simplification of premeasurements for use of HPD system for film, 23:47828
analysis of bubble chamber, SLAC spiral reader system for, 23:29222 (SLAC-PUB-593)
analysis of bubble chamber, software system for on-line scanning and measuring in film, 23:43594
analysis of bubble chamber, spatial reconstruction of track parameters with differential geometry in film, 23:33522 (ANL-7515, pp 462-7)
analysis of bubble chamber, status and future development of PEPR system at Oxford for film, 23:16152 (CONF-680628-, pp 46-58)
analysis of bubble chamber, status of automatic scanning at BNL and Columbia for, 22:38095
analysis of bubble chamber, status of CERN—RHEL minimum guidance system for film, 23:33518 (ANL-7515, pp 421-30)
analysis of bubble chamber, status of HPD systems at CERN for, 25:13281 (CERN-70-21(Vol.2), pp 813-24)
analysis of bubble chamber, status of PEPR Point Guidance System for film, 21:41264
analysis of bubble chamber, status of PEPR system at Yale for film, 23:16151 (CONF-680628, pp 19-45)

analysis of bubble chamber, status of PEPR system at Nijmegen for film, 23:16153 (CONF-680628-, pp 59-71)
analysis of bubble chamber, status of PEPR system at MIT for film, 23:16150 (CONF-680628-, pp 5-18)
analysis of bubble chamber, Sweepnik semiautomatic measuring machine for, 24:33936
analysis of bubble chamber, system employing high accuracy image plane digitizers for film, 23:31550
analysis of bubble chamber, tangent method for calculating event parameters in film, 23:33520 (ANL-7515, pp 454-61)
analysis of bubble chamber, television measuring projector for film, 22:10598
analysis of bubble chamber, time-sharing aspects of SMP scanning and measuring projector for, 21:41245
analysis of bubble chamber, track finding, following, and event recognition on POLLY for film analysis of, 23:33503 (ANL-7515, pp 244-55)
analysis of bubble chamber, use of computer controlled electronic gates in film, 21:41255
analysis of bubble chamber, use of computer for matching photographs for, 22:358 (ANL-7346)
analysis of bubble chamber, use of in-line Fraunhofer holographic technique for, 23:31548
analysis of bubble chamber, use of interactive graphical console in POLLY system for film, 21:41266
analysis of bubble chamber, use of MP II for film, 22:361 (UCRL-17611)
analysis of bubble chamber, using Spiral Reader film measuring projector, 23:22096
analysis of bubble chamber, using Spiral Reader film measuring projector, 23:26573
analysis of bubble chamber, vidicon device for ionization measurements for, 25:10878
analysis of bubble chamber, vidicon system for, 22:4474 (ORO-2504-110)
analysis of bubble chamber, with FSD—IBM 7094, 21:41258
analysis of bubble chamber, with modified PEPR-type machine, 22:4475 (PPAD-628-E)
analysis of bubble, cloud, and spark chamber, film scanning and measuring center for, 21:39201
analysis of bubble-chamber, performance of HPD 2 flying spot digitizer for, 25:42153
analysis of CERN 81-cm bubble chamber, HPD minimum guidance system for, 23:41057 (CERN-69-18)
analysis of cloud chamber, computer program for, 21:45405
analysis of cloud chamber, stereo reading apparatus with redundancy for, 24:16887
analysis of dielectric track detector, automatic system for, 25:4340
analysis of dielectric track detector, for charge determination, 25:4338
analysis of dielectric track detector, for measurement of uranium-238—uranium-235 fission ratio in reactor, 25:18704
analysis of dielectric track detector, for particle discrimination and energy determination, 25:2438
analysis of dielectric track detector, review on, 25:395
analysis of electron, in heavy-liquid bubble chambers, 25:18784
analysis of electron, in homogeneous magnetic field in heavy media, 24:36615 (KFKI-70-10-HEP)
analysis of emulsion, charge identification from, 22:38046
analysis of emulsion, use of pulsed electric field for discrimination in, 23:45541
analysis of European 3.7-meter bubble chamber, performance of PEPR system for BEBC film, 25:13240 (CERN-70-21(Vol.1), pp 89-104)
analysis of fission fragment, in dielectric track detectors, automatic system for, 25:4343
analysis of fission fragment, in polycarbonate track detectors, 25:4342
analysis of fission-fragment, for neutron detection, 22:6652 (ORNL-4168, pp 183-230)
analysis of Gargamelle bubble chamber, computer-based scanning and measuring system for, 25:13271 (CERN-70-21(Vol.2), pp 651-64)
analysis of Gargamelle bubble chamber, equipment and procedures for film, 22:12621 (CERN-67-26(Vol.1), pp 313-27)
analysis of Gargamelle bubble chamber, film projector for, 25:34951 (CONF-700623-(Vol.1), pp 334-44)
analysis of Gargamelle heavy liquid bubble chamber, design of DOLL on-line measurement system for, 23:2642 (CERN-68-37)
analysis of hammer, in nuclear emulsions, 22:16874
analysis of heavy-liquid bubble chamber, computer program for, 25:29369 (ITEF-753)
analysis of heavy-liquid bubble chamber, computer particle-track reconstruction program for, 22:49117
analysis of hydrogen bubble chamber, design of scanning table for film, 24:27416
analysis of hydrogen bubble chamber, SLAC spiral reader system for, 25:26511
analysis of hydrogen bubble chamber, using delta electron density, 22:43102
analysis of hydrogen bubble chamber, using reprojector, 25:21433
analysis of inclined, in nuclear emulsions, 22:43101
analysis of large bubble chamber, ADAM + EVA scanning and measuring machine for, 25:13270 (CERN-70-21(Vol.2), pp 633-49)
analysis of low-energy, in Wilson chambers, computer program for, 21:6289
analysis of magnet spark chamber, geometrical and kinematical, 24:36613 (CERN-70-17)
analysis of magnetic field spark chamber, developments in pattern recognition techniques for, 23:33509 (ANL-7515, pp 328-43)
analysis of magnetic spectrometer spark chamber, momentum, 25:8561
analysis of massive charged, in solids, 22:6563
analysis of Mirabelle bubble chamber, automatic gain control for HPD system for, 25:13291 (CERN-70-21(Vol.2), pp 941-8)
analysis of multi-prong bubble and spark chamber, with nonuniform magnetic fields, computer program for, 23:29221 (SLAC-99)
analysis of nuclear emulsion, 24:480 (COO-1671-16)
analysis of nuclear emulsion proton recoil, automatic counter for, 23:26581 (AERE-R-5876)
analysis of nuclear emulsion, automatic scanner for, 24:29529
analysis of nuclear emulsion, automatic scanner for, 25:18690
analysis of nuclear emulsion, automatic scanning device for, 25:49010
analysis of nuclear emulsion, computer simulation of random-drift sampling method for, 23:629
analysis of nuclear emulsion, computer-based automatic scanning system for, 24:7677 (CONF-690301-, pp 434-45)
analysis of nuclear emulsion, computer-based system using digitized video scan for, 23:26516 (N-69-18111)
analysis of nuclear emulsion, for neutron spectroscopy, semi-automatic system for, 25:2433 (CEA-R-4063)
analysis of nuclear emulsion, least squares method for elimination of distortion in, 24:14304
analysis of nuclear emulsion, semiautomatic readout for multiple microscope systems for, 24:9722
analysis of nuclear emulsions, design of digitized microscope operating on-line to small computer for, 23:47760
analysis of Omega spark chamber, development of pattern recognition programs for, 25:13283 (CERN-70-21(Vol.2), pp 831-50)
analysis of photographs of, picture description language for computer, 22:10595 (SLAC-PUB-358)
analysis of propane bubble chamber, method for compensating for Coulomb scattering and bremsstrahlung for, 22:30862
analysis of SMP, computer program for, 25:42135(T) (CERN-Trans-71-8)
analysis of spark chamber, ARIANE flying-spot device for film, 23:47831
analysis of spark chamber, ARIANE flying-spot device on-line to small computer film, 22:2423
analysis of spark chamber, ARIANE II automatic system for, 25:13285 (CERN-70-21(Vol.2), pp 859-78)
analysis of spark chamber, automatic, 24:29569 (SJC-T-70-1)
analysis of spark chamber, automatic flying spot digitizer for, 21:6195 (DESY-66/25)
analysis of spark chamber, cartesian coordinate measurements on film scanning and measuring machines for, 23:11848 (JINR-P13-4012)
analysis of spark chamber, computer graphics patching of failed CYCLOPS events in, 25:2486 (RHEL/R-205)
analysis of spark chamber, computer program for processing magnetic tape data from flying spot digitizers for, 21:28200 (BNL-977)
analysis of spark chamber, computer-based scanner with flying spot device for automatic, 23:33531
analysis of spark chamber, computerized system for automatic, 22:21316 (RT/EL-(67)13)
analysis of spark chamber, description of CHLOE film digitizing system for, 22:38093
analysis of spark chamber, design and performance of flying spot digitizer for, 21:41238
analysis of spark chamber, design of computer-controlled cathode ray film scanner for, 21:43246
analysis of spark chamber, design of computer-controlled flying spot digitizer for, 21:41243
analysis of spark chamber, digital system for, 22:6651
analysis of spark chamber, errors in scanning devices for, 22:45334 (JINR-P10-3910)
analysis of spark chamber, flying spot digitizer for, 21:41240
analysis of spark chamber, fully automated HPD system for, 21:22130 (NYO-2171-221)
analysis of spark chamber, least-squares fit method for, 24:4491
analysis of spark chamber, measurement techniques at CERN for film, 23:33507 (ANL-7515, pp 310-16)
analysis of spark chamber, programming methods at CERN for pattern recognition for, 23:33508 (ANL-7515, pp 317-27)
analysis of spark chamber, SASS computer-controlled scanning system for film, 22:2419 (UCRL-17695)
analysis of spark chamber, scanning and measuring device for, 21:6246
analysis of spark chamber, scanning projector for, 21:16202
analysis of spark chamber, SLAC automatic film digitizer for, 22:47373 (SLAC-PUB-426)
analysis of spark chamber, SPDL computer system for, 22:36099 (SLAC-84)
analysis of spark chamber, stringing method for, 25:55048
analysis of spark chamber, transistorized control circuit for semi-automatic film scanner for, 22:25672(T) (NP-tr-1651)
analysis of spark chamber, use of computer-controlled flying spot digitizer for, 21:26190
analysis of spark chamber, use of flying spot digitizer for, 21:41241
analysis of spark chamber, use of flying spot digitizer for, 21:41242
analysis of, computer program for monitoring flying spot digitizer for, 23:9746 (UCRL-18548)
analysis of, development of computer-based systems for, 23:29265
analysis of, development of SMP scanning and measuring facility for, 22:32039(R) (COO-1195-124)
analysis of, direct generation of Monte Carlo random stars for, 21:21150
analysis of, in extraterrestrial materials, 24:42309
analysis of, in mica wafered between fissionable material for use as neutron dosimeter, 21:43284
analysis of, independent scanning statistics for, 21:16198
analysis of, integrated circuit for control of HPD measuring table for, 24:27411
analysis of, recorded on photographic film, computer-aided measuring projector for, 23:14039
analysis of, recorded on photographic film, optical scanning system for, 22:10605(P)
analysis of, track following program for, 21:16100 (BNL-11140)
angular measurement of fission fragment, in scintillation ionization chambers, 23:11852
annealing of heavy-ion, in silicate minerals, 25:1264
book: Methods in Computational Physics, Advances in Research and Applications, Volume 5, Nuclear Particle Kinematics, 21:26205
brightness in streamer chambers, angular dependence of, 22:8385
bubble density in bubble chambers, relativistic rise in, 21:16120 (CONF-660918-, pp 140-4)
calculations for fast particles in condensed matter, 25:22588
charge identification of nuclear emulsion, 25:29380
conference on charged, at Cambridge in April 1969, 25:22578
coordinates in bubble chambers, computer program for magnetic field calculations at, 22:359 (JINR-P11-3512)
coordinates in bubble chambers, program for determining, 22:4472 (JINR-P1-3487)
coordinates in spark chambers, design of slow-scan television system for recording, 21:19921
coordinates in wire spark chambers, use of ferrite memory systems for recording, 22:6647
coordinates of, detector for measuring exact, 23:24456
counting in nuclear emulsions, electronic equipment for, 22:28169
counting in nuclear emulsions, PAULETTE system for, 21:34466 (CONF-660527-, pp 177-85)
counting in thin foils, spark—scaler method for, 25:393
counting of proton recoil, in nuclear emulsions, use of microscope-television system for, 21:26159 (UCRL-50007-66-2, pp 28-30)
counting of proton-recoil, in nuclear emulsions, device for automatic, 23:43608
counting of recoil-proton, in nuclear emulsions for fast neutron dosimetry, system for, 24:16831 (AERE-R-6220)
counting proton recoil, in nuclear emulsions, 21:32416
curvature in emulsions, method for elimination of accidental errors in measuring, 23:36878
data from bubble chamber, integration of flying spot device measurement facility with, 21:41250
data from nuclear emulsions, computer program for processing of, 22:6646
density in bubble chambers, design of photographic film projector for measuring, 21:19919
density in bubble chambers, relativistic increase and plateau in, 21:24197
density in lunar soils and meteoritic materials, electron microscopy of, (E), 24:48982
density in Saint Severin meteorite, relations with depth, 22:6460
density measurements in dielectric track detectors, use of scattered light for, 22:37990 (KAPL-3412)
density of fossil, in Kapoeta howardite, (E), 25:38043
density on glass surfaces after neutron irradiation, 22:8212
density per unit length for meson (π) and proton, in streamer chamber, momentum dependence of streamer, 23:42602
description of highly-localized bright, in helium-filled spark chambers, 21:36387
detection and identification of fission fragment-induced, in minerals, 22:37874 (64-RL-3635-M)
detection and measurement of, in SNAP-9A debris, 21:30637(R) (TLW-3547-1)
detection and measurement of, in SNAP-9A debris, 21:30639(R) (TLW-3547-3)
detection and measurement of, in SNAP-9A debris, 21:30638(R) (TLW-3547-2)
detection and measurement of, in SNAP-9A debris, 21:30640(R) (TLW-3547-4)
diameter of etched fission fragment, in dielectric track detectors, correlation between energy and, 24:2470
diameter of etched fission-fragment, in glass, energy dependence of, 24:41670
discrimination in nuclear emulsions processed with amidol and sodium thiocyanate, (E), 25:23830
discrimination of cosmic ion, in nuclear emulsions, 23:2566
dispersion and width of spark chamber, effects of neon—ethanol and neon—water vapor mixtures on, 21:39234
dispersion and width of, in neon-filled spark chambers, effects of ethanol- and water-admixtures on, 21:30703(T) (ANL-Trans-426)
distortion in emulsions, correlation function for spurious scattering from, 22:8387
distortion in streamer spark chambers, 22:2424
distortion in Wilson chamber, 24:11787
distortion of bubble chamber, stress condition of safety glass for determining, 23:29220(T) (NP-tr-1785)
distortions in spark chamber, geometric, 21:6248
distribution in detector cavities, use of Monte Carlo method for calculation of, 24:14487
distribution in meteorites of heavy primary cosmic, (E), 21:11382
effects of structure of, on initial ion recombination in gases, 25:21005
energy deposition in polymers of heavy-ion, calculation of distribution of, 25:387
energy deposition in small sites in charged-particle, compound-Poisson calculations of, (T), 25:19767
energy—range calculations for cellulose nitrate track detectors, 23:7772
etch pit distributions in Makrofol polycarbonate foil, fast neutron-induced, 25:4339

- etching in boron-impregnated dielectric detectors irradiated with slow neutrons, 25:10820
- etching in cellulose nitrate track detectors, methods for chemical, 23:7772
- etching in Lexan polycarbonate track detectors, 24:44274
- etching in Lexan polycarbonate, enhancement by spark discharge, 24:44259
- etching in plastic detectors, effects of charge and storage conditions on, 25:385
- etching in plastic track detectors, photo-oxidation method for enhancing rate of, 23:7755
- etching in plastics, parameter study, 24:41669
- etching in plastics, parametric study of effects on sensitivity, 25:390
- etching in PMMA, using alcohol, 24:41673
- etching rate of heavy, in Zelux polycarbonate sheets in sodium hydroxide solution, 25:388
- etching rates in polycarbonate films, combined effects of ultraviolet radiation and gases on, 24:41672
- fading in K-5 emulsion at 40°C, 24:5926 (IFA-CR-58)
- fading in muscovite single crystals, anisotropy in, 23:5456
- fading in nuclear emulsions at high temperatures, 24:20999
- fading of recoil proton, in personnel photographic film neutron detector, 23:4842
- formation and analysis in dielectrics, 24:27353
- formation and development in dielectric track detectors, 25:10827
- formation and etching processes in dielectrics, mechanism of, 23:35480
- formation and properties in dielectric track detectors, 24:41665
- formation and properties in solids, review of, 24:24124
- formation by ultrasound in hydrogen bubble chamber, 24:33939
- formation in cellulose derivatives, processes in, 23:37977 (ORNL-4351)
- formation in condensed matter, theory of secondary electron effects in, 25:22586
- formation in dielectrics, bibliography on, 23:7726 (CEA-Bib-122)
- formation in emulsions, theory for, 24:5913
- formation in hydrogen bubble chambers, effects of ultrasound on, 24:7649 (JINR-P13-4702)
- formation in hydrogen bubble chambers, effects of ultrasound on, 24:14302(T) (SLAC-Trans-110)
- formation in layered compound semiconductors, effects of electric conductivity on, 25:22620
- formation in Lexan and glass from uranium fission, spatial parameters for, 25:408
- formation in Lexan sheets held against minerals during neutron irradiation, 25:283
- formation in liquid hydrogen bubble chamber, effects of ultrasound on, 24:5932
- formation in liquid hydrogen bubble chamber, effects of ultrasonic vibrations on, 24:21016
- formation in liquid hydrogen bubble chambers, effect of ultrasound on, 24:36620
- formation in liquid-helium bubble chambers, density of, 25:34989 (CONF-700623-(Vol.2), pp 893-900)
- formation in matter, unified theory of, 25:13209 (COO-1671-28)
- formation in minerals from heavy ions, mechanism for, 24:42780
- formation in mixtures of immiscible liquids, 25:57727
- formation in nuclear emulsions, 24:481 (COO-1671-17)
- formation in plastic detectors, chemical processing involved in latent, 23:9939 (ORNL-4316, pp 231-69)
- formation in solids, radiation damage studies by, 22:36513
- formation in solids, theory of, 23:47732 (COO-1671-18)
- formation of etchable, in dielectric media, model for, 23:50169
- formation of hammer, in photon spallation of nuclei up to 1.1 GeV in emulsions, (E), 25:50051
- formation of latent, in polymeric detectors, review of, 24:27356
- formation of, spatial distribution of ionization energy deposited by delta rays inn, 24:42776
- fossil, in extraterrestrial materials, (T), 25:45163
- gap lengths in bubble chambers, device for measuring, 21:16122 (CONF-660918-, pp 151-2)
- geometrical parameters of, in photographic emulsions, semiautomatic apparatus for measuring, 23:6294
- geometry measurements in bubble chambers, use of on-line PDP-5 connected to IBM 360/50 for, 22:360 (PPAD-629-C)
- ionization data on bubble chamber, from Spiral Reader, 23:33514 (ANL-7515, pp 395)
- ionization density in bubble chambers, measurement of, 24:44319
- ionization density of deuterium bubble chamber, use of VIDICON on scanning table for determining, 23:43595
- ionization measurements on bubble chamber, comparison of methods for, 23:33515 (ANL-7515, pp 396-7)
- ionization measurements on bubble chamber, PEPR, 23:33512 (ANL-7515, pp 382-9)
- ionization measurements on bubble chamber, POLLY system for, 23:33513 (ANL-7515, pp 390-4)
- labeling in bubble chamber, method for, 24:13260
- length in muscovite, use in age estimation, 22:18917
- lengths of, in cellulose nitrate track detectors, 23:7772
- localization in highly absorbing scintillators, 23:2556 (ISS-68/18)
- location in dielectric track detectors, method for, 23:17758
- location in nuclear emulsions, wide-gap spark chamber for, 24:5931
- location of primary cosmic, in emulsions, use of spark chamber for, 24:14310
- measurement in bubble chambers, contribution of small angle nuclear scattering to error formulas in, 21:45392
- measurement in emulsions, cross-wire digitized eyepiece for, 22:49168
- measurement in nuclear emulsions, development of automatic systems for, 22:40367
- measurement in nuclear emulsions, microdensitometer for, 21:10644
- measurement in nuclear emulsions, semiautomatic microscope for, 21:6287
- measurement in nuclear emulsions, transverse-momentum distributions of secondaries from multiple scattering, 21:8589
- measurement in photographic films, digitizing devices for, 21:26155 (SLAC-PUB-300)
- measurement in spark chambers, 21:10648
- measurement of bubble and spark chamber, automatic, 25:55047
- measurement of bubble and spark chamber, automatic system for, 25:21428
- measurement of bubble and spark chamber, HPD digitizer for, 25:44681 (IFVE-SPK/OPI-70-56)
- measurement of bubble and spark chamber, pulse shaping devices for, 25:44680 (IFVE-SPK-70-59)
- measurement of bubble chamber, automatic, 24:29575
- measurement of bubble chamber, computer-based control system for, 23:50168 (NP-17995)
- measurement of bubble chamber, covariant matrix for, 25:44682 (IFVE-SPK/SVM-70-53)
- measurement of bubble chamber, laser illumination system for HPD for, 25:26509 (RHEL/R-212)
- measurement of bubble chamber, seminar on automatic systems for, 24:2492 (RHEL/R-183)
- measurement of cone-tip depths in etched plastic sheets, errors in microscopic, 25:394
- measurement of ionization loss in bubble chamber, semiautomatic television device for, 25:42142
- measurement of nuclear emulsion proton-recoil, for neutron detection, 25:18728
- measurement of proton, in nuclear emulsions, photographic scanning technique for, 22:36082
- measurement of spark chamber, graphical projection method for, 25:35011
- measurement of, semi-automatic MIGE-2 microscope for, 21:296
- measurement on bubble chamber film, operation of SMP for, 22:22332(R) (UH-511-23)
- measurements in nuclear emulsions, use of intermediate microphotography for, 21:10639
- measurements on electron, in nuclear emulsions, multiple scattering, 24:33937
- microdistortions in type-R nuclear emulsions, under various development conditions, 21:28259
- microstructure of heavy-ion, in etched nitrocellulose foils, 24:41674
- model for heavy particles in water, 22:29272
- origin in meteorites of fossil, (T), 21:11380
- photography in bubble chambers, performance of cameras for, 21:16167
- photography in bubble chambers, use of in-line Fraunhofer method for, 21:14445
- positions in nuclear emulsions, device for recording, 21:16189
- probability of overlapping, in solid-state detectors, 23:9939 (ORNL-4316, pp 231-69)
- production and registration in liquids and solids for particle detection, 25:32270 (JINR-P13-5623)
- production from nuclear alpha decay in bubble chamber, S-matrix theory for classical space—time description of, 23:39856
- production in binary liquid solutions, thermodynamic analysis, 23:14042
- production in solid radiation detectors, (T), 21:41230
- production of bright localized, in helium streamer chambers, 21:16139 (JINR-P13-3123)
- production of fictitious, testing program for, 22:4473 (JINR-P10-3526)
- production of hammer, from proton reactions with nuclei at 20 GeV/c and π^- reactions with nuclei at 3.5 GeV/c in emulsions, (E), 25:1400
- production of localized bright, in helium-filled streamer chambers, 21:16110 (CONF-660918-, pp 72-4)
- properties and structure of, for use in radiation chemistry, 24:20806
- properties in freons and emulsions, dependence on cross section of incident particle interactions with free nucleon for, 23:45544 (JINR-P2-4521)
- properties of G-2 and K-5 nuclear emulsion, 24:44254 (EUR-4452, pp 631-52)
- proton identification using multiple scattering in nuclear emulsion, 22:35305
- reconstruction of bubble chamber, computer program for geometrical, 22:49113(T) (ANL-Trans-668)
- reconstruction of large bubble chamber, computer program for geometrical, 25:13260 (CERN-70-21(Vol.1), pp 467-96)
- recording in acoustic spark chamber, design of microphones for, 21:39243
- recording in spark chambers, design of electrophotographic system for, 21:39245
- recording in spark chambers, vidicon system for on-line or magnetic-tape, 21:43255
- recording of spark chamber, design and performance of vidicon for, 22:36105
- recording system for bubble chamber, development of holography, 25:432
- recording system for bubble chamber, in-line Fraunhofer holography, 25:434
- recording system for bubble chamber, selection of laser source for holography, 25:433
- registration in dielectric track detectors, restricted energy loss criterion for predicting, 23:11788
- registration in polymers, restricted energy loss rate criterion for, 21:42159 (USNRDL-TR-67-80)
- registration in solids, conference on, 25:44603
- registration in solids, conference on, 25:44637
- registration of charged, use of dry developing paper for, 22:38019
- registration using discharge—condensation method, 21:22163
- replication of heavy cosmic, in Apollo helmets, (E), 25:9255
- scaling law for scattering and slowdown in secondary-electron, 25:22587
- scanning of nuclear emulsion, incline microscope stage for, 23:43546
- scanning of nuclear emulsion, semiautomatic system for, 25:10839
- scanning of rapid cycle bubble chamber, on-line vidicon system for, 24:48318 (SLAC-PUB-792)
- selection in spark chambers, use of computers for, 21:39236
- shape of projected image of bubble chamber, (E), 21:4742
- simulation from flying-spot digitizer with spiral scanning, mathematical, 23:33524 (JINR-P11-4463)
- simulation of bubble chamber, computer program for, 21:28203 (CERN-67-10)
- simulation of bubble chamber, computer program for, 22:30858 (UCID-2753)
- simulation of bubble chamber, use of light scattering by bubbles for, 22:12647
- simulation of spark chamber, use of photon beams for, 24:27412
- stochastic population processes in bubble chamber, theory of, 21:23392 (ANL-7131)
- storage in streamer spark chambers, method for, 25:44688
- structure and healing of fission fragment, in lithium fluoride and calcium carbonate monocrystals, 23:9824
- structure in liquids and solids, models for, 25:54589 (CONF-700652-(Vol.1), pp 19-49)
- structure in water, 23:19772
- structure of fast-electron, in dielectric liquids, electric conductivity study of, 25:22585
- structure of relativistic, in nuclear emulsions, 25:426
- structure of, relation of theory of primary radiation chemistry yields to, 22:2100 (UJV-1883)
- structure of, review on effects of, on radiation chemistry yields, 25:21040
- structure of, role in radiobiology, 25:21586
- structure parameters in linear energy transfer theory, 25:22584
- structure theory, review, 25:22579
- use in age estimation of deep sea glasses, 23:13860
- use of alpha-recoil, for age estimation of albites, 23:33266
- use of thermal neutron-induced, to determine uranium distribution in rocks, 21:24120
- use of uranium-238 fission, to estimate age of Japanese archaeological glass, 23:33267
- use of uranium-238 fission, to estimate age of natural minerals, 22:6446

PARTICLE TRAJECTORIES
- aberration coefficients for, study of invariants of equations of motion in calculations of, 25:45872
- analysis in quadrupole mass spectrometers, 21:17946
- analysis of first-order effects of misalignments in beam transport system on, 25:3495
- calculation for accelerators, digital method of, 21:31667(T) (ORNL-tr-1687)
- calculation for flat disk type accelerator tube and Einzel lens, 23:37062
- calculation in magnetic fields, 22:28137
- calculation in split-pole magnetic spectrometers, ray-tracing, 25:49041
- calculation of, effects of magnetic field measurement errors on accuracy of, 21:40317
- calculations for asymmetrized quadrupole electrostatic lenses, 25:20151
- calculations for fringing field effect of deflecting magnet, 24:38017
- calculations for magnetic fields, computer program for, 23:47811
- determination in electromagnetic fields, computer program for calculating and plotting, 22:50488 (LA-3903)
- determination in inhomogeneous magnetic fringing field formed by conical pole faces, 24:10884
- determination in magnetic spectrometers, use of Fermat principle for, 21:36372
- determination in nontrivial fields, arc transcriber for, 22:8419
- determination in spark chambers, precision of, 21:1598
- electric breakdown along, in wide-gap spark chamber, (T), 23:17800
- envelope in strong-focusing accelerators, method for calculating, 21:29684
- measurement in magnetic field, wire tracing method using magnetostrictive readout for, 24:6788
- measurement in magnetic fields, design of air-bearing pulley for floating-wire, 24:13253
- measurement of high energy, scintillation detector system for, 24:14241 (AD-695421)
- prediction of long range aerosol, 21:41017 (CONF-670931-1)
- reconstruction of streamer chamber, computer program for filmplane, 24:11835 (SLAC-103)
- reliability of isobaric, comparison of calculated and prognostic values in studies of, 25:48644 (BNWL-1551(Vol.2)(Pt.1), pp 126-8)

PARTICLES
- see also Aerosols
- see also Alpha Particles
- see also Beta Particles
- see also Charged Particles
- see also Cosmic Particles
- see also Dusts
- see also Electrophoresis
- see also Elementary Particles
- see also Nuclear Particles
- see also Particle Sources
- see also Powders
- see also Radiation Sources
- see also Solar Particles
- see also V Particles

ablation and thermal response of small spherical reentering, (E/T), 23:4783 (SC-RR-68-547)
ablation in free-flight range, effect of thermal stresses on, 21:16062 (SC-CR-66-2128)
ablation of small radioisotopic fuel reentry, neutron activation method for studying, 24:9607
ablation of small, during simulated reentry into atmosphere, 21:34406 (SC-CR-67-2583)
abundance of neutral, in thermosphere during magnetic storms, (T), 25:35960
acceleration in curved space—time in general relativity theory, 24:8733
acceleration in general relativity, Einstein equations for gravitational radiation from, 22:9686
acceleration of, exact relativistic solution for, (T), 21:37636
acceleration to speed of light in general relativity theory, 23:37002
activity of fritted and spheroidal, from Small Boy nuclear explosion, 22:35957 (AD-660655)
adhesion between, electrostatic forces of, 21:42916 (ORNL-TM-1947)
adhesion of solid, on surfaces, mechanisms for, 21:8798 (ORNL-4007, pp 243-67)
analysis of airborne, for trace elements by neutron activation and γ spectrometry, 25:48484
analysis of airborne, for trace elements by neutron activation and γ spectrometry, 24:5624
analysis of airborne, for trace elements by neutron activation and γ spectrometry, 23:2248
angular distribution measurements of, method for correcting errors from medium distortion by, 22:7564
angular momentum states and charge states of, analogy between coherent superpositions of, 24:12961
beam power measurements of, developments in radiometric calorimetry for, 21:16208 (UCRL-50173(Suppl.1))
behavior and density of, in exhaust plume from NERVA rocket engine, lidar equipment and method for studying, 22:47241 (UCRL-13358)
behavior in atmosphere, Pacific Northwest Laboratory research on, 21:43062
behavior in gravitational fields, (T), 21:35240
book: Electrodynamics of Particles and Plasmas, 24:23983
book: Particles and Their Interactions, 23:34549
book: Physics: The Behavior of Particles, 25:47773
book: The Packing of Solid Particles, 23:14310
book: Topics in Several Particle Dynamics, 22:13688
calculations for point, in relativity theory, formulation for Monte Carlo treatment of, 22:18017 (LA-3839)
channeling through perfect crystals, Debye-model study of low-temperature, 25:11971
charge superselection rule for, existence of, 21:42304
charged exchange between neutral, and the solar wind, (T), 22:43723
clearance from lungs of dogs, kinetics of, 21:38815(R) (BNWL-293)
clearance from respiratory tract of, following inhalation in aerosols, mechanisms for, 24:16950(R) (COO-1181-1)
clearance of inhaled radioactive, from lungs of rats, effects of whole-body x radiation on, 21:14529 (BNWL-280, pp 62-4)
clearance of inhaled radioactive, from lungs of rats, effects of atropine sulfate on, 21:14532 (BNWL-280, pp 64-5)
clearance of inhaled, from lungs of rats, effects of cyanide on, 21:14544 (BNWL-280, pp 70-2)
clearance of radioactive, from lungs of rats, effects of various aerosols on, 21:14531 (BNWL-280, pp 65-6)
coating submicron size, method using nickel carbonyl, 22:7045
coating submicron, by chemical vapor deposition of nickel, 22:7045
coating with bitumen for aqueous waste solidification, design of equipment for, 21:45325(P)
collection of airborne, by fibrous filters, theory of, 23:38596 (NP-17969)
collection of, mathematical expression for efficiency of, 21:30609 (CONF-660904-Vol.1 and 2, pp 647-55)
collision efficiencies of solid, calculations of, 25:26384 (CONF-700601-, pp 381-3)
collision-process lifetimes and causality for, 23:49224
collisions of three point, maximum number of binary, 22:20169
collisions of three point, maximum number of binary, 23:27850 (N-69-14808)
collisions of, high-energy limit in rearrangement three-particle, (T), 23:5227
condensation nuclei in the atmosphere, radioactive, 21:6073
cononical transformation in superconducting systems to quasi-, (T), 21:43967
content and size in French uranium mine air, (E), 25:57564
content in air from stack discharge, 21:20172 (NHS-6/61)
content in air stream with turbulent flow, (E), 23:9561 (BNWL-715-3, pp 103-8)
content in rainwater, effects of rainfall intensity on, (E), 25:29224
content of massive, in air and ground following release from line or point sources, theoretical model for calculating, 21:6035(R) (SC-CR-66-2031)
content of radioactive size distribution of radioactive, in lower stratosphere and upper troposphere, 21:16014 (NYO-3615-1)
correlation with gamma radiation, processing of statistical matrices for analysis of experiments on, 22:6602
counting of radioisotope-labeled 10 μ diameter, Coulter type instrument for, 25:55090
crack configurations in coated, 22:11049
creation and annihilation operators for, generating functional of mean values of, 24:26342 (ITF-69-67)
crush strength of reactor fuel, apparatus for measuring, 21:32040
decay of unstable states of, model for, 21:23298
density in slabs from monoangular beam, transport theory for anisotropic scattering, 21:25397 (NP-16508)
density profiles of neutral, in ionosphere during solar eclipse, computed, 21:15022 (AFCRL-66-741)
deposition and removal of hetero- and monodisperse, from human respiratory tract, tracer studies of dynamics for, 23:9986 (UR-49-987)
deposition from aerosols flowing radially inward between concentric parallel circular plates, calculation of diffusional, 25:13123
deposition from turbulent air flow, model for, 24:39073 (BNWL-1307(Pt.1), pp 126-9)
deposition in atmosphere, development of model to predict velocity for, 25:48653 (BNWL-1551(Vol.2) (Pt.1), pp 161-4)
deposition of 1 to 50 μ particles on natural surfaces, factors affecting, 22:10771
deposition of aerosol, in curved sampling probe, effects of particle size and tubing diameter on, 23:9558 (BNWL-715-3, pp 88-92)
deposition of airborne, effect on sampling errors, 21:25989 (BNWL-SA-1045)
deposition of airborne, on surfaces, model for turbulent, 24:14077 (BNWL-1051(Pt.1), pp 52-8)
deposition of atmospheric, effects of precipitation rate on, (E), 23:9565 (BNWL-715-3, pp 128-40)
deposition of entrained, on channel or pipe walls in turbulent flow, 24:20945
deposition of monodispersed, from turbulent air flow, measurement of velocity for, 25:48652 (BNWL-1551(Vol.2)(Pt.1), pp 158-60)
deposition of small, on vertical surfaces, 22:16717
deposition of submicron size, in concrete ventilation ducts, 21:16097
deposition of submicron, by precipitation scavenging, effects of particle size on, (T), 23:9568 (BNWL-715-3, pp 154-64)
deposition of submicron, comparison of measured and theoretical data on, 23:9569 (BNWL-715-3, pp 165-70)
deposition of submicron, derivation of convective diffusion equation for describing, 23:9570 (BNWL-715-3, pp 171-83)
deposition on ground after stack discharge, 21:20172 (NHS-6/61)
deposition on ground, turbulent transfer mechanism for, 22:40253 (AECL-2787, pp 602-14)
deposition on heated surfaces cooled by organic coolants, effects of coolant composition and flow and surface temperature on, 24:48219
deposition on simulated large-scale surfaces, use of wind tunnel for studying turbulent, 24:39072 (BNWL-1307(Pt.1), pp 122-5)
deposition on surfaces, design of wind tunnel for measuring, 23:9606 (BNWL-715-3, pp 101-3)
deposition on tube surfaces in turbulent flow, measurement of, 23:9561 (BNWL-715-3, pp 103-8)
destruction of cosmic dust, by shock waves in collisions of interstellar clouds, (T), 23:3236
detection of E less than or equal to 15-MeV, methods for, 21:45360 (LYCEN-6738, pp 124-49)
detection of relativistic, use of cesium iodide and potassium chloride films for, 22:40361(T) (SLAC-Trans-84)
detection of, design of ΔE—E coincidence circuit for, 22:336
detection of, effects of space-time fluctuations in, 21:28268
detection of, relativistic quantum theory of observation for probability of, 21:28269
detection of, review of various techniques for, 21:45350 (LYCEN-6738, pp 1-24)
detection of, use of E—ΔE system for, 21:45352 (LYCEN-6738, pp 28-33)
diffusion and dispersion in atmosphere, computer methods for studying turbulent, 24:44118 (ERLTM-ARL-5)
diffusion and fall of atmospheric, computer programmed model for prediction of, 22:40237 (AECL-2787, pp 320-33)
diffusion and motion of aerosol, effects of temperature on, 25:26386 (CONF-700601-, pp 403-10)
diffusion in air of submicron, calculation of Brownian, 23:19608 (BNWL-987)
diffusion in atmosphere of neutral ultrafine, (E/T), 24:50467 (NP-18413)
diffusion in atmosphere under nonequilibrium flow and thermal conditions, calculation of Brownian, 24:14078 (BNWL-1051(Pt.1), pp 59-61)
diffusion in atmosphere, krypton-85 tracer studies on, 23:11444 (BNWL-481-2, pp 1-126)
diffusion in atmospheric boundary layer, mathematical analysis of, 22:40243 (AECL-2787, pp 437-52)
diffusion in exponential atmosphere of small, spatial, (T), 22:17480
diffusion in free-molecule Couette flow, theory of anisotropic Brownian, 24:39070 (BNWL-1307(Pt.1), pp 111-14)
diffusion in turbulent atmosphere, Eulerian—Lagrangian relation for determining, 22:40247 (AECL-2787, pp 485-502)
diffusion in turbulent atmosphere, Eulerian—Lagrangian relation for determining, 22:40246 (AECL-2787, pp 476-84)
diffusion in upper atmosphere, analog studies using rotating fluid-filled annulus, 22:42871 (SC-CR-67-2812)
diffusion of flowing, in circular tubes under Poiseuille and slug flow conditions, (T), 25:4204 (HASL-238)
diffusion of fluid, in laboratory and natural streams, calculation and measurement of longitudinal, 25:34718 (KH-R-12)
diffusion of heavy, in plumes, effects of meteorological factors on, 21:22043(R) (NYO-3685-10)
diffusion of reflecting Brownian, kinetic theory of, 24:39071 (BNWL-1307(Pt.1), pp 115-19)
diffusion of, effects of forests on, 22:40251 (AECL-2787, pp 581-8)
dispersion and breakage of coated, in graphite matrix, 21:20556
dispersion of 100- to 200-μ dia, use of tetrakis(dimethylamino)ethylene for tropospheric tracing of, 21:43060 (SC-DC-67-1866)
dispersion of radioactive, in atmosphere, 21:43379
dispersion of settled radioactive and nonradioactive, theory and method for determination of, 21:18064
dispersion over northern hemisphere, 24:44120 (ERLTM-ARL-20)
dispersion over northern hemisphere, 24:44119 (ERLTM-ARL-14)
distribution and size of aerosol, pulsed-laser holographic method for measurement of, 25:26373 (CONF-700601-, pp 213-16)
distribution in aerosols, evaluation of methods for determination of, 21:34650(R) (BNWL-322)
distribution in atmosphere, mechanisms for, 21:26554(R) (BNWL-370)
distribution in lungs of man during steady-state breathing, 21:41419
distribution in space, Poisson law for, 24:38648(T) (ANL-Trans-840)
distribution in tissues of dogs following inhalation, 23:6339 (BNWL-714, pp 3.1-38)
distribution in tissues of dogs, rats, and swine following inhalation or ingestion, 23:6340 (BNWL-714, pp 4.1-24)
distribution of inhaled large, in dogs, tracer study, 21:14534 (BNWL-280, pp 49-52)
distribution of inhaled radioactive, in dogs, 21:14530 (BNWL-280, pp 56-9)
distribution of inhaled radioactive, in tissues of dogs, 21:14527 (BNWL-280, pp 59-62)
distribution of mixtures of heavy radioactive, in atmosphere, calculation of vertical, 23:17577
distribution of radioactive, in human lungs, 21:43379
distribution of radioactive, in respiratory tract, 22:23508 (SC-M-67-2973)
distributions and trajectories of, in collision with rain drops, high-speed photographic studies of, 22:40248 (AECL-2787, pp 514-26)
dose entering spacecraft from external sources, heavy, 22:49652
dosimetry of small radioactive, 24:2506
dryer for extruded nuclear fuel, design of tubular, 21:24151(P)
dynamics and interactions of, covariant Hamiltonian formalism for classical, 22:22258
dynamics of systems of N point-like, in special relativity theory, 24:37873
dynamics of, confined between two parallel plates, (T), 25:33021
effects of atmospheric meteoritic and sulfate, on nuclear fireball emissions, (T), 25:54815 (AD-722031)
effects of corpuscular fluxes on nighttime ionospheric E layer during geomagnetic storms, (E), 25:24967
effects of small high-velocity glass, on erosion of ductile metals, 21:30958(R) (NYO-3477-11)
effects of submicron-sized refractory material, on heat transfer properties of gaseous coolants, 24:5797
effects on crystals of atomic, diffusion of point defects toward amorphous zones in, (T), 24:12881
electric charge of radioactive aerosol, during alpha decay, 23:7642
electric charging of small, at low pressures, 25:1989(R) (COO-1248-24)
electric mobility of submicron, effects of shape on, 22:43300 (AERE-PR/HPM-12)
electromagnetic scattering by, conference on, 22:5152
electromagnetic wave scattering by spherical, transfer function for, (T), 21:23357
electromagnetic-wave scattering by small moving, (T), 22:37061
energy in expanding universe, (T), 21:23302
energy in Mollers tetrad theory, (T), 22:7557
energy levels in inverse square potential fields, 21:976
energy losses of heavy, in homogeneous absorber, calculation of straggling distributions of large, 23:3263 (RHEL/R-164)
energy losses of relativistic, from ionization in films, (E/T), 22:38729(T) (SLAC-Trans-82)
energy of ultrarelativistic, device for measuring, 22:38088
energy transfer by, in general relativistic gases, 22:44279
entropy of interacting systems, 24:4185 (LA-4256)
equations of motion of a dynamical system of, (T), 21:31498 (AD-636063)
equations of motion of, invariance and conservation laws in, (T), 21:7389
examination of small radioactive, methods for autoradiographic, 24:22984 (FOA-4-4417)
existence of faster-than-light, causality effects for, 22:3302
existence of stable, in metagalaxy, 22:1507
existence of super-heavy, in scalar—tensor gravitational theory, 23:39821 (ITF-69-21)
expansion of self-gravitating ensembles of, effects of, (T), 25:49686 (AD-715348)
fall, dispersion, and transport of atmospheric, Model B computer program for estimation of, 22:2228 (SC-CR-67-2645)
fallout and dispersion of atmospheric, computer program for determination of, 21:36149 (SC-CR-67-2530)
field equations for stable states of scalar, Klein—Gordon, 22:26712
field theory for integral-spin massless, covariant formulations of, 24:15665
fields for variable-mass, equivalence principle for proper time and mass in gravitational and electromagnetic, (T), 24:49596
fields on homogeneous space of Poincare group for, 25:17532

filters for submicron, efficiency of mechanical, 23:16027
filtration of radioactive, efficiency of filter materials for, 21:32290 (EUR-3178.d)
filtration tests on ultrafine, equipment for, 21:29969(R) (UCRL-17299)
fission-product distribution in atmospheric, rare-earth, 23:13278
flow in tubes, effects of shape of tube on rate of, 21:38815(R) (BNWL-293)
flow of frictional cohesive, from bins and hoppers, Jenikes method for calculation of gravitational, 23:35392 (EUR-4190, pp 63-77)
flow of granular, use of short wave length radiations for study of gravitational, 23:35393 (EUR-4190, pp 79-115)
flow of pebble bed, parameters affecting, 23:35401 (EUR-4190, pp 463-77)
flow of pebble bed, tracer technique for measurement of, 23:35400 (EUR-4190, pp 453-62)
flow of spherical and nonspherical, from bins and hoppers, gravitational, 23:35396 (EUR-4190, pp 205-19)
fluid dynamic properties of, computer program for calculation of, 22:38261(R) (SC-CR-67-2845)
fluidization of fine, effect of interparticle adhesive forces on, 21:3050
fluidization of, statistical thermodynamics of, 21:35821 (UCRL-11216)
flux measurements of neutral, thermal method using junction temperature effect, 21:24244 (CEA-R-3094)
forces between, 24:47348
formation of condensation, by radiolysis of gaseous impurities in air, (E), 22:16710
fractionation of water-borne, using centrifugal techniques, 21:22409 (K-L-6131)
functional random-walk model of many-particle systems of, 24:26345
generation of cosmic showers at 20 mwe by neutral, (E), 22:13276
gravitation theory for variable-mass, principle of equivalence for, 24:49595
gravitational field equation near, conformal, 24:3766
gravitational field of, falling in Schwarzschild geometry, (T), 25:7090
gravitational self-forces and radiation losses of classical spin, (T), 22:1484
gravitational wave scattering by massive, low-energy threshold theorem for clssical, (T), 25:7737
Green function of free, 22:17832
hazards from ingestion of radioactive, effects of size on, 21:28586 (BNWL-SA-1144)
hazards from inhalation of, conference on, 21:32595
heat transfer and motion of fluidized bed, effects of pulsating gas flow on, (T), 22:25599(T) (ANL-Trans-591)
heat transfer between fluidized bed, and bed-immersed surface, 22:25598(T) (ANL-Trans-587)
heat transfer between fluidized bed, and bed-immersed heating surface, (E), 22:25600(T) (ANL-Trans-592)
heat transfer between moving fluidized bed, and bed surface, 22:25597(T) (ANL-Trans-586)
heat transfer between pulsating bed, and bed-immersed surface, (E), 22:25600(T) (ANL-Trans-592)
heat transfer to fluid—solid, in turbulent pipe flow, 22:45242 (ORNL-TM-2124)
heat transfer to gases in fluidized and packed beds at low Reynolds numbers, 24:366(R) (RPI-3639-9)
hypersonic reentry of small spherical, aerodynamic parameters of, 22:42977(R) (SC-PR-68-451)
identification by nuclear instrumentation, conference on, 21:45349 (LYCEN-6738)
inhalation of plutonium-238 and uranium-235-labeled, by dogs, localization following, 24:50687(R) (UH-235-P-8-X-3)
inhalation of plutonium-238-labeled and plutonium-239-labeled plutonium dioxide by man, effects of particle number and size on risks of, 24:29738 (NP-18208)
inhalation of plutonium-239-labeled, by dogs and rats, localization following, 24:50687(R) (UH-235-P-8-X-3)
inhalation of, abstracts on, 21:39395 (BNWL-SA-1255)
integral representation for systems of, interacting, (T), 22:41709
interaction potential of, uniform distribution in system with depression in, (T), 25:50035
interactions and motion of spinning, classical theory of, 22:11728
interactions in classical mechanics, relativistic, 23:46810
interactions in classical statistical mechanics, superstable, (T), 24:49290
interactions in field of gravitational wave, (T), 22:1508
interactions in gravitational fields, sign of gravitational force, 21:37640
interactions in one dimension, instantaneous relativistic dynamics for two-body, 24:35689
interactions in relativistic classical mechanics, Hamiltonian formalism in, 22:20168
interactions in special relativity theory, kinematics of two-body, 23:39816
interactions in system of many, bounds on density dependence of free energy and energy of, (T), 23:27726
interactions of charged and neutral, in plasma, equations for, 21:37470
interactions of classical nonrelativistic and relativistic, with scalar field, Bogolyubov transformation in strong coupling theory for, (T), 25:50167 (JINR-E2-5976)
interactions of classical spinning, action-at-a-distance theory with relativistic invariance and conservation laws for linear and angular momentum in, 23:46787
interactions of many-body system of, formalism for derivative method for, 21:46452
interactions of massive, with gravitational fields, asymptotic states for, (T), 25:17578
interactions of monoenergetic, statistical theory of second-order transition in, 21:23146
interactions of point, relativistic mechanics of, 25:43573
interactions of spinning, with macroscopic fields, wave equations for, (T), 25:22875
interactions of systems of, rotational energy in, (T), 24:49285
interactions of, analysis of energy distribution from collision number formula using Monte Carlo method, 23:25148
interactions of, conservation of momentum and angular momentum in classical mechanics for, 22:22336
interactions of, nonsaturation of gravitational forces in, 23:30819
interactions through a nonlocal potential, (T), 23:21016
interactions with circularly polarized plane electromagnetic wave, group theoretical treatment for mass shift in, (T), 25:47777 (ORO-3992-49)
interactions with extended many-particle system, quantum treatment of inelastic, 23:3622
interactions with phonons in many-boson system, 22:13387
interactions with solar wind of submicron, 21:552
irradiation of, design of mobile equipment for uniform, 23:518(P)
kinematics in five-dimensional relativistic scheme, 22:7453
kinetic theory of dilute gas of, with spin, 21:15244
labeling of nonleachable monodisperse, development of method for, 21:46999(R) (AERE-PR/HPM-11)
lattice bands in interstellar, evidence for, (T), 22:839
light scattering by interstellar, (E), 22:26124
localization in space and time for relativistic micro-, 22:9676
many-body system of, unified collective theory of, 21:29168
mass of microfine, equipment and method for gamma resonance absorption measurements of, 25:49033(P)
measurement of surface, comparison of methods for, 22:23549
mechanics of pebble bed, effects of friction on, 23:35360 (EUR-4190, pp 505-16)
metrics for, solution of vacuum field equations for Petrov type-D, 23:39828
mixing of dissimilar dry, design and operation of equipment for, 25:29254(P)
mobility spectra of radioactive, in aerosols, equipment for measuring, 23:4833
monitoring of, methods and instruments for, 25:52049
monitoring techniques for toxic and radioactive, 21:25999 (Y-KB-78)
motion in Einstein relativistic, field equations for, 25:53334
motion in Einstein relativistic, field equations for, 25:53335
motion in electromagnetic, Proca, and scalar fields in general relativity theory, geodesics of affine connection for, (T), 25:53345
motion in external gravitational field, five-dimensional relativistic scheme for, 22:7556
motion in four-dimensional space-time, two-particle forces for relativistic Newtonian equations of, 24:37872
motion in gravitational field, equations for, 23:51996
motion in isotropic fluid sphere, generalized Tolman solutions in general relativity for, 22:5665
motion in linear periodic array of small-radius potential wells in quantum mechanics, 23:44580
motion in linearized gravitational fields, trajectories of spin-1 and spin-$^{1}/_{2}$, 24:47509
motion in linearized, gravitational fields, Rarita—Schwinger equations for, (T), 24:52204
motion in monopole—quadrupole gravitational fields, (T), 25:35809
motion in quaternion formulation of general relativity, flat-space metric for, 23:46821
motion in relativistic quantum mechanics, energy and kinetic energy propagation for, 24:43033
motion of arbitrary-spin, in general relativity theory, additional conditions for equations of, 23:27875
motion of classical, Feynman integral for, 22:32207
motion of coupled ionospheric neutral, equation of, 25:27521
motion of interacting and noninteracting, invariance of approximately relativistic Lagrangians for, 24:8712
motion of massless in space, conditions for stationary, (T), 22:5665
motion of negligible mass, in gravitational field of two massive primaries, (T), 21:33587
motion of pole-dipole, in linearized general relativity theory, (T), 25:7730
motion of relativistic, stochastic, 23:18995 (ITF-68-44)
motion of spinning, in electromagnetic field, (T), 25:14599
motion of spinning, in general relativity theory, (T), 25:9874
motion of spinning, in gravitational fields, equations for, (T), 25:53353
motion of spinning, outside rotating star, equations for, (T), 25:53353
motion of two, computer program for solution of classical relative, (T), 25:45618
motion of, accidental degeneracies in, (T), 21:9688
motion of, classical limit of probability density for perturbed change in Hamiltonian for, (T), 25:40842
motion of, Dicke assumptions in scalar—tensor theories for, 22:46518
movement in fluidized beds, effects of abnormal bubble motion on, 23:26442 (BNL-50142)
occurrence of virus-like, in tumors of rats following transplantation of x-radioinduced mammary carcinoma, 23:31951
optical properties of, for radiation transfer control in gaseous nuclear rocket engine, (T), 21:604 (NP-16338)
packing shot-size spherical, visual model for powder metallurgy using vibration, 22:2594
penetration coefficients through one-dimensional potential barriers, WKB approximation for, 21:23295
penetration in solids of light energetic, lattice effects on, 24:21868
penetration of atmospheric, through HEPA filters, relations of particle size and velocity with, 25:21273 (CONF-700816-(Vol.2), pp 751-65)
penetration through one-dimensional asymmetric barriers, WKB approximation for, 21:23292
phase shifts for, complex vector parameter of Lorentz group for, (T), 25:17524
photon multiple scattering by freely oriented, intensity and polarization from, (T), 23:51901
plutonium isotopes content of airborne, in U. S. during 1965, 22:25850
precipitation and collection of charged radioactive, in gas, system for electrostatic, 24:14360(P)
precipitation scavenging of submicron, (E/T), 21:41014 (BNWL-SA-1405)
precipitation scavenging of submicron, (T), 21:41013 (BNWL-SA-1402)
preparation of spherical, equipment and method for, 23:22642(P)
preparation of ultrafine, from materials of high hardness, 24:33624 (Y-1723)
production and dosimetry of radioactive, for studies on radiological significance of nuclear rocket debris, 21:8452(R) (ORNL-TM-1686)
production of coated, design of jet-activated vaccum system for use in, 21:36203 (ORNL-TM-1902)
production of small metallic, apparatus and method for, 23:12282(P)
production of spherical ceramic, method for, 22:7051(P)
production of, Markov processes for, 23:34546 (AD-679890)
properties of scattering, in reflection nebulae, (T), 22:2771
radiation dose from radioactive, in man, method for calculating, 21:12835 (CONF-651008-, pp 168-82)
radiation dosimetry of punctiform radioactive, in tissues in relation to rate distribution, 24:34330
radiation effects on aggregation of, in vaccinia virus plaques, γ and x, 22:19368
radiation hazards of detached, from zirconium—tritium targets for neutron sources, 24:30610 (KFKI-70-9)
radioactive, produced in Plowshare cratering events, analysis of, 23:29476 (UCRL-71443)
radioactivity content of airborne, in North and South America during 1966, 22:28502
radioactivity content of airborne, in North and South America during 1966, 22:28495
radioactivity monitoring in airborne, in Mexico during 1968, gross β, 23:33710
radioactivity monitoring in airborne, in Oak Ridge area during 1968, long-lived gross x and β, 23:35738
radioactivity monitoring in airborne, in Rocky Flats area during 1968, gross γ, 23:35738
radioactivity of airborne, in Mexico during June 1968, gross β, 24:2609
radioactivity of fallout, in Japan following Third Nuclear Test during 1966, 23:16297
radioisotope content of airborne, in United States during July to December 1967, plutonium-238 and plutonium-239, 23:31777
radioisotope content of airborne, in USA during 1968, plutonium-238 and plutonium-239, 23:31779
radioisotope content of airborne, in USA during 1970, 25:52056
range in amorphous materials of energetic, stochastic equation for, 24:24123
ratio of neutral, to charged particles at altitudes of 800 gm/cm^2, (E), 25:58834
reactions with alloys, energy distribution of shocks from displaced particles in, 21:31065
reactions with atoms, excitation cross sections for, (T), 21:37129
reflection of, above barrier energies, (T), 24:28451 (JINR-P4-4567)
relativistic Boltzmann equation for system of, solution of, (T), 21:40124
relativistic equations for two-body system of unequal-mass, three-dimensional, 24:40466
relativistic Schroedinger equation for, with arbitrary spin, (E), 24:10648 (IFA-FT-75)
removal from gaseous radioactive wastes, design of filter for, 22:10473(P)
removal from troposphere of, mechanisms of, 22:10377
removal of inhaled, from lungs of dogs, effects of cigarette smoking on, 21:14543 (BNWL-280, pp 66-70)
removal of micron and submicron size from gases, development of electrostatic spray separator for, 23:29064
removal of radioactive, from gases, design of high-efficiency filter cell for, 23:516(P)
removal of very fine, from polluted air streams, performance of condensing steam aerosol scrubber for, (E), 25:29251 (ORNL-4654)
research activities at Pacific Northwest Laboratory on small, review of, 23:24314
residence time of fluidized bed, effects on heat transfer, (E), 22:47281 (ANL-7353)
retention in Stellaria media, effects of nonradioactive simulated fallout particles on, 23:35603 (ORO-3299-20, App.A)
retention on human skin, tracer study of, 22:6804 (ORNL-4168, pp 289-311)
sampling air for radioactive, design of equipment for, 22:2476(P)
sampling airborne nonspherical radioactive, design and calibration of centrifuge for, 21:16042 (LF-34)
sampling of airborne, sources of error in, 21:25989 (BNWL-SA-1045)
sampling of atmospheric, effects of probe diameter on accuracy of, 23:9559 (BNWL-715-3, pp 92-5)
scattering by black cylinders in nonabsorbing media, solution of Peierl's equation for, (T), 25:53357 (IAE-1970)
scattering by perfect crystals, dynamic, (T), 21:33544
scattering in slabs, trajectories for, (T), 22:31621

scattering in solid layers at low energies, angular distribution of multiple, (T), 25:33401
scattering of three, many-body problem of, (T), 25:45614
scattering of three-identical, exact solution of Faddeev equations for one-dimensional, 24:15696
scattering of, differential cross section calculation for, 22:9009
scattering of, quantum measurement theory in, 21:33585
scattering of, space—time transformations of initial and final states in, (T), 22:41706
scattering of, wave theory for reflection and refraction of, (T), 23:18776
scattering on metallic blocks, angular and distance distributions for multiple, (T), 22:31643
scavenging by atmospheric precipitation, role of Brownian diffusion in submicron, 24:39064 (BNWL-1307(Pt.1), pp 82-6)
scavenging by rain water of atmospheric, effect of particle size on, 21:36144 (AWRE-O-43/59)
scavenging by rainwater in atmosphere, Brownian and phoretic diffusion processes in below-cloud, 24:39062 (BNWL-1307(Pt.1), pp 70-6)
scavenging by rainwater in atmosphere, rhodamine dye and sulfur dioxide tracer studies on, 24:39063 (BNWL-1307(Pt.1), pp 77-81)
scavenging from atmosphere, effects of atmospheric precipitation on, (E), 24:46365
scavenging of atmospheric aerosol, by rainwater, numerical model for studying, 25:26388 (CONF-700601-, pp 433-46)
scavenging of atmospheric aerosol, method for predicting efficiency of precipitation, 25:26391 (CONF-700601-, pp 475-85)
scavenging of atmospheric, by ice crystals, 21:45253
scavenging of atmospheric, by rain clouds and raindrops, kinetic theory of, 25:26382 (CONF-700601-, pp 355-71)
scavenging of atmospheric, research priorities in research on, 25:26359 (CONF-700601-, pp 6-10)
scavenging of submicron aerosol, effects of phoretic processes on precipitation, (T), 25:26387 (CONF-700601-, pp 411-22)
scavenging of, Brownian and phoretic diffusion processes in in-cloud, 24:39066 (BNWL-1307(Pt.1), pp 92-6)
scavenging of, coefficient for in-cloud, 24:39069 (BNWL-1307(Pt.1), pp 107-10)
separation and analysis of radioactive, from nuclear detonations, methods for systematic, 22:42873 (UCRL-50428)
separation from gases, design of equipment for, 24:43965(P)
separation from radioactive waste combustion gases, incinerator equipment and methods for, 23:16061 (CEA-CONF-1113)
separation of finely divided, use of electromagnetic force for, 21:19823(P)
simulated fallout, effects on metabolism and particle retention in Stellaria media, nonradioactive, 23:35603 (ORO-3299-20, App.A)
size classification of coated-carbide, design of TURF equipment for, 23:16511 (ORNL-4275, pp 57-87)
size classification of submicron, by low-pressure impactor, 22:25332 (ORNL-4229, pp 156-61)
size determination in fluids, use of gamma and x-ray absorption techniques for, 23:711(P)
size determination of airborne, electron microscopy method for, 23:33690 (MLM-1596)
size distribution in atmospheric nuclear explosion clouds, 25:13138
size distribution in fluids, x-ray source and radiation detector for determining, 23:38337(P)
size distribution in sedimentation columns, determination using β backscattering, 22:224
size distribution measurements of suspended, in liquid scintillators by quenching effects, 25:51928
size distribution of aerosol submicron, classification using cascade impactors, 25:57573 (ORNL-4226)
size distribution of radioactive, in lower stratosphere and upper troposphere, 21:16014 (NYO-3615-1)
size distribution of, sedimentation method for determination of, 22:14450
size distribution studies in aerosols, electrical charging methods for, 24:5646(R) (COO-1248-18)
size distributions of, method for analysis of, 21:30991 (BNWL-210)
size measurement of radioactive colloid, on-line computer system for densitometer for, 24:25333
size measurements of silt, 21:10823(R) (ORO-2789-17)
size of micron-range, methods of determining, 22:223
size of nuclear excavation explosion cloud, photomicroscopic method for measuring distribution of, 23:49952 (UCRL-71837)
size of plutonium-238 dioxide SNAP fuel, effects of ablation on, 23:16041 (SC-CR-68-3470)
size of process stream, x-ray attenuation and fluorescence sensors for determination of, 25:21241
size of suspended, radiometric gage for measuring, 25:46649(P)
size of, beta backscattering method for measurement of, 24:27461(P)
size of, effects of, on dissolution in relation to lung burdens, mathematical analysis of, 22:28465
size of, statistical analysis of Coulter counter data for measuring, 25:26099 (MLM-1810)
size of, study of x-radiometric methods for determining, 25:57300 (ORO-3847-2)
size spectra of solid, in atmospheric aerosols, mathematical models for evolving, 25:26385 (CONF-700601-, pp 385-402)
sizing of submicron, methods for, 24:2681 (IN-1310, pp 42-61)
solutions of Newton—Liouville equations for locally ellipsoidal distributions of gravitating, (T), 23:3170
spin density matrix for, measurability of, 23:3661
spin of, path-integral theory for, 23:14931
spin precession velocity in Schwarzschild field, 24:28614
statistics of gravitating relativistic system for, 22:1502
statistics of small, summary of techniques for analyzing particle size, 23:6048 (LA-3656)
stopping in materials, integro—differential equations for probability of, (T), 25:19971 (ANL-7727)
storage of granular, in hoppers, effects of particle size on, 23:35397 (EUR-4190, pp 221-40)
symmetries in classical mechanics of systems of point, 22:46475
symmetry breaking under external field, existence of presymmetry for, 21:15373
symmetry for free nonrelativistic, relation to canonical formalism for class of solvable Lie groups in, 25:17534
symmetry for relativistic free, spectrum-generating nilpotent Lie group in, 25:17536
symmetry for systems of identical and nonidentical, eigenvalues for group of permutations in, (T), 25:25466 (IAE-1988)
symmetry for, fields on homogeneous space of Poincare group in, 25:17532
symmetry group theory for relativistic internal motion of, unitary representation and wave equation in, 23:7160
theory of composite, generalized master equation for, (T), 23:16911
tracking of atmospheric, use of tetrakis (dimethylamino) ethylene for, 22:21209 (SC-RR-66-2693)
trajectory through atmosphere, MIDAS computer program for calculation of low-level isentropic, 22:37879 (BNWL-441)
transition radiation from nonrelativistic, moving across vacuum-medium boundary, tables of intensity of, (T), 25:33595 (JINR-P4-5690)
transport equation for, biorthogonal angular polynominal expansion of two-dimensional, 21:38172
transport of atmospheric, beryllium-7 tracer studies of air-to-sea, 25:32087
transport of entrained, from turbulent flow to channel or pipe walls, 22:27996 (WAPD-TM-765)
transport of pollutant, from water surfaces to atmosphere, radioactive tracer studies of bubble-bursting mechanism of, 25:32144
transport of, in gas-solid suspensions, effect of electric fields on, 21:12583
transport through gastrointestinal tract of laboratory animals and man, 100- to 200-micron, 22:51305 (LA-3848, pp 75-96)
transport through matter, modeling trajectories in complex geometry systems for, 22:34735
uptake and retention of radioactive, by man following inhalation, review of, 22:33715 (SZS-15/67)
uptake by peritoneal macrophages, effects of low temperature and metabolic poisons on, 24:14406
use of cesium-134-labeled ceramic, in measurement of respiratory tract clearance in rats, 21:32558 (CONF-661018, pp 98-116)
use of heavy, for ablation of human pituitary gland in comparison with yttrium-90, 24:34547
use of high-energy, in biological and medical research, 22:51440
use of indium-113m- or technetium-99-labeled, for lung scanning, 23:38641
use of ultrafine, in continuous filtration system, 21:10513 (UCRL-16574)
velocity in interstellar space, effects of isotropic radiation on, (T), 22:2762
velocity near ground, variance reduction analysis of, 22:40239 (AECL-2787,pp 381-90)
velocity of, validity of special relativity theory for, 23:51984
volume distribution for nonrigid and rigid electronic counter for measurement of, 23:2740(R) (COO-78-174)
washout coefficients for airborne, 21:14325 (BNWL-SA-657)
wave equation for, positive-energy relativistic, (T), 25:38620
wave function for spin-1/2 composite, 22:29607
wave function for stationary quantum state of N-body system of, nodal structure of, 24:45448
wave function of system of many, symmetry of ground-state, 23:27724
wave functions in weak gravitational fields, 22:5655

Pascal (French)
see Q Devices

PASSIVATION
see also Corrosion Inhibitors
see also Stabilization
book: Passivity and Protection of Metals Against Corrosion, 23:16467

Pathfinder Reactor
see Sioux Falls Power Reactor

PATHOGENICITY
radiation effects on, of Histomonas meleagridis in turkeys, γ, 25:19156
radiation effects on, of Salmonella typhimurium, effects of repeated growth cycling and irradiation on γ, 24:17180

PATHOLOGY
see also Diseases
book: Pathology of Irradiation, 25:29689
neutron radiography in, review on, 25:49223 (CONF-710402-(Vol.2), pp II.49-58)
research by Royal College of Surgeons of England in 1968, 24:2698

Pawling Lattice Test Reactor
see Reactors, Research

PAX Reactor
see Critical Assemblies

Payette Project
see Plowshare Project

PBD
see 1,3,4-Oxadiazole, 2-(4-Biphenylyl)-5-phenyl-

PBF
see Power Burst Facility

PBMA
see Methacrylic Acid, Butyl Ester, Polymers

PBRE
see Pebble Bed Reactor Experiment

PCAC
see Current Algebra

PCR
see Savannah River Components Test Reactor

PCTC
see Current Algebra

PCTR
see Physical Constants Testing Reactor

PCUT Plant
see Radiochemical Processing Plants

PEACH BOTTOM POWER REACTOR, UNIT 1
(40 Mw(e); startup 1966)
administrative controls for, revised technical specifications for, 25:28591 (DOCKET-50171-82)
bibliography on, 23:9120 (JUL-Bibl.-14)
boiler tube failures in, analysis of cracks in type 304 stainless steel, 22:32840
containment building electrical penetrations at, fire protection modifications to, 22:24992
containment system for, description of ventilation facilities of, 23:43061
containment system for, engineering drawings for, 23:19407 (DOCKET-50171-5)
containment system for, final safety analysis of, 23:19406 (DOCKET-50171-4)
containment system for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
containment vessel for, description of permanent liquid nitrogen system for providing inert atmosphere in, 23:15569
containment vessel for, operating experience with temporary propane burner system for providing inert atmosphere in, 23:15569
containment vessel for, seals for electrical penetrations for, 22:10051
control elements for, in-vessel inspection and hot cell examinations of guide tubes for, 24:35955(R) (GA-10099)
control elements of, fast neutron radiation effects on dimensional changes in, 24:11202(R) (GA-9797)
control elements of, stress and strain in irradiated borated graphite, (T), 25:41409
control rod and control rod guide tube for, fast neutron radiation effects on, 25:23104 (GA-10196)
control rod calibration for, by on-line reactivity computer, 21:35624
control rod calibration in, use of on-line reactivity computer for, 22:22694 (GAMD-7912)
control rod reactivity in, pulsed-neutron measurements of, 21:13972 (GAMD-7352)
control rod scram transient test at zero power, 21:12137 (GAMD-7359)
control rods and guide tubes for, post-irradiation examination of, 25:23157 (DOCKET-50171-81)
control rods for Core 2, reactivity worth measurements of, 25:18063(R) (GA-10400)
control rods for, 300 EFPD boron burnup effects in inserted, 23:21416(R) (GA-9237)
control rods for, differential and integral reactivity worth of, 22:16148(R) (GA-8370)
control rods for, revised surveillance requirements for, 25:31487 (DOCKET-50171-84)
control rods for, use of on-line analog reactivity computer for calibration of, 21:44832 (GA-8104)
control system for, transient testing performance of, 23:9095 (GAMD-7900)
control systems and instrumentation for, final safety analysis of, 23:19405 (DOCKET-50171-3)
conventional plant and services for, engineering drawings of, 23:19407 (DOCKET-50171-5)
coolant dust separator purification equipment for, performance of helium, 23:13368(R) (GA-9080)
coolant impurities in, analysis of source of, 23:11248 (BNWL-919, pp 4.1-4)
coolant loss accidents in, preliminary safety analysis of, 24:20513 (DOCKET-50171-6)
coolant of, effect of power level on content of krypton isotopes in, 23:33057(R) (GA-9360)
coolant purification system for, analysis of helium, 21:35630
coolant purification system for, design of helium, 25:50891
coolant purification system for, performance of, 25:50892
coolant purification system for, performance of helium, 25:18063(R) (GA-10400)
cooling system capacity for decay heat under shutdown conditions, 21:12132 (GAMD-5632)
cooling system for, final safety analysis of, 23:19405 (DOCKET-50171-3)
cooling system for, flow calibration of primary, 22:42188 (GAMD-7903)
cooling system of, cesium plateout in, 21:7913
cooling system of, effectiveness of helium purification assembly in, 22:22690(R) (GA-8500)
cooling system of, fission product activities in, (E/T), 24:1952(R) (GA-9494)
cooling system of, removal and analysis of particulate matter from, 24:35955(R) (GA-10099)
cooling system of, solid-fission-product activity following 300 EFPD in, 23:21416(R) (GA-9237)
cooling system of, testing of helium purification for, 22:22692 (GAMD-7902)
cooling systems for, tabulation of projected radioactivity inventories for, 24:20513 (DOCKET-50171-6)
core and component materials behavior in, analysis following 300 EFPD of, 23:21416(R) (GA-9237)
core for, calculations of effects of heatup following coolant loss accidents for, 23:19403 (DOCKET-50171-1)
core for, final safety analysis of design of, 23:19405 (DOCKET-50171-3)
core for, in-service inspection schedules for components of, 24:16162 (DOCKET-50171-24)

core for, radiation effects on hydrogen content of graphite in, (E), 24:35955(R) (GA-10099)
core for, technical specifications for fuel elements and control rods for replacement, 24:16162 (DOCKET-50171-24)
core for, verification of heat transfer coefficient for, 22:12023(R) (GA-8153)
core heat transfer film coefficient measurements during rise to power in, 22:24960 (GAMD-7911)
core inspection during November 1969 to January 1970, 24:26703(R) (GA-9898)
core of, analysis of 150 full-power day γ scan and visual inspection of, 23:15554 (GAMD-8703)
core of, equilibrium fission product activities in, (T), 24:1952(R) (GA-9494)
core reactivity measurements of pulsed neutron technique for, 21:44834 (GA-8117)
decontamination of in-pile loops of, 21:43428
decontamination procedures for, 21:43426
description of, 21:21688
design and economics of operation of, 21:40640
design and operating characteristics of, tabulation of, 22:7831
design parameters and layout of, 22:16146 (GA-8075)
design parameters for, 22:22712 (STI/PUB-174)
design parameters for, summary of, 23:13377
design parameters of, 23:45028
design parameters of, 25:5884
design parameters of, 25:39133 (A/CONF.49/P-833)
design, development, and economics of, 21:5609 (COO-284(Vol.1))
design, development, and testing of, 21:15740
development, 21:34107(R) (GA-7988)
development, 21:23600(R) (GA-7830)
development, 21:25624(R) (GA-7595)
development and physics testing of, 21:10128(R) (GA-7426)
diesel generator for, loss of terminal voltage for, 25:41289 (DOCKET-50171-88)
dynamics response during startup of, plant, 22:32809
effluents from, final safety analysis of radioactive, 23:19406 (DOCKET-50171-4)
effluents from, preliminary safety analysis of radioactive, 23:19403 (DOCKET-50171-1)
Emergency Core Cooling Systems for, final safety analysis of, 23:19405 (DOCKET-50171-3)
emergency shutdown rods for, status report on batteries for, 25:44032 (DOCKET-50171-89)
fission product concentration in, effects of burnup on, 23:13368(R) (GA-9080)
fission product concentrations in, diffusion probe plateout measurements of, 24:52809(R) (GA-10300)
fission product control in, final safety analysis of, 23:19405 (DOCKET-50171-3)
fission product inventories for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
fission product release monitoring in cooling and fuel element purge systems following Core 2 startup, 24:52809(R) (GA-10300)
fuel and fuel cycle development for, 21:7947
fuel cycle characteristics of, 21:5614 (GA-7276)
fuel cycles for, comparison of four economic, 23:37515
fuel element design and development for, 21:2825 (GA-7183)
fuel element failure in, effects of dimensional changes on, 23:33057(R) (GA-9360)
fuel element performance analysis, 21:35629
fuel element performance in, 21:44833 (GA-8113)
fuel element power densities in, analysis of replacement, 23:21416(R) (GA-9237)
fuel element purge gas for, cryogenic adsorption system for purification of, 25:51019
fuel elements for, analysis of 300 EFPD failed, 23:21416(R) (GA-9237)
fuel elements for, distribution of fission products in graphite of, (E), 24:35955(R) (GA-10099)
fuel elements for, distribution of fission products in graphite of, (E), 24:1952(R) (GA-9494)
fuel elements for, in-vessel inspection of, 24:35955(R) (GA-10099)
fuel elements for, postirradiation examination of failed graphite matrix thorium carbide (ThC_2)—uranium carbide (UC_2), 23:23825 (GAMD-8743)
fuel elements for, radiation effects on target, 21:1957 (GA-6493)
fuel elements for, removal of failed, 24:35955(R) (GA-10099)
fuel elements for, revised loading specifications for FPTE, 25:31487 (DOCKET-50171-84)
fuel elements for, temperature analysis for shipping cask for, 22:22690(R) (GA-8500)
fuel elements for, use of ISOCHECK method for determining heavy isotope content in, 22:12011 (CEND-294)
fuel elements from, safety evaluation of ICPP storage facilities for spent, 25:44567 (IN-1465)
fuel elements in, fission product release from, 22:12023(R) (GA-8153)
fuel elements of Core 2 for, design parameters and testing programs for BISO and TRISO coated ceramic particle HTGR type, 24:28857 (GA-10065)
fuel elements of, fast neutron radiation effects on mechanical properties of, 24:11202(R) (GA-9797)
fuel handling system for, final safety analysis of, 23:19405 (DOCKET-50171-3)
fuel loading sequence to criticality at, initial, 21:13971 (GAMD-7351)
fuel pins for, design parameters and performance requirements of FPTE-3, 25:23156 (DOCKET-50171-80)
fuels for, processing of irradiated, 21:43016 (GAMD-6360)
heat transfer coefficients for core of, effects of coolant exit temperature on, 22:32875
helium coolant for, evaluation of purification system for, 22:16148(R) (GA-8370)
helium purification system for, final safety analysis of, 23:19405 (DOCKET-50171-3)
license application for, 23:19403 (DOCKET-50171-1)
license for, application for extension of expiration date on, 24:8983 (DOCKET-50171-13)
license for, changes in source and special nuclear material possession limits for, 24:13453 (DOCKET-50171-22)
license for, increase in special nuclear and source material possessions for provisional, 24:16024 (DOCKET-50171-23)
maintenance during August to October 1968, 23:13368(R) (GA-9080)
maintenance during January 1969, 23:19445(R) (TID-24960)
maintenance during November 1969 to January 1970, 24:26703(R) (GA-9898)
maintenance during October 1967, 22:5933(R) (NP-17145)
maintenance during September 1967, 22:5930(R) (NP-17085)
neutron flux in core of, zero power measurements of, 21:15652 (GAMD-7353)
noise analysis measurements in, 22:22693 (GAMD-7908)
noise analysis test at zero power, 21:12137 (GAMD-7359)
nuclear instrumentation for, description and calibration of, 22:42188 (GAMD-7903)
nuclear steam supply system for, engineering drawings for, 23:19407 (DOCKET-50171-5)
nuclear steam supply system for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
operating experience with, summary of 1967, 23:7379
operating limits of, tabulation of, 22:42188 (GAMD-7903)
operating procedures for, normal and emergency, 24:20513 (DOCKET-50171-6)
operation and performance during October 1967, 22:5933(R) (NP-17145)
operation and performance during September 1967, 22:5930(R) (NP-17085)
operation and performance of plant systems of, low power testing of, 21:1191
operation and performance of plant systems of, low power testing at, 21:1191
operation calibration measurements on, 22:12023(R) (GA-8153)
operation during February to April 1970, 24:35955(R) (GA-10099)
operation during May to August 1970, 24:52809(R) (GA-10300)
operation during May to July 1969, 24:1952(R) (GA-9494)
operation experiences of, review of, 24:18682
operation of, engineering tests during initial, 21:38503
operation of, final safety analysis of, 23:19406 (DOCKET-50171-4)
operation of, physics tests during initial, 21:38452 (GA-8025)
operation of, physics tests during initial, 21:38504
operation of, results of power testing and long term surveillance during, 24:7032
operation of, review of, 23:45028
operation of, review of, 24:33231 (ORNL-TM-2946)
operation of, review of 1967 to 1968, 23:37396
operation of, review of initial, 22:46943
operation of, summary of, 24:24685
operation performance of, description of, 22:48689
operations aspects of, review of, 25:39133 (A/CONF.49/P-833)
operations aspects of, revised technical specifications for, 25:7985 (DOCKET-50171-73)
operations during August to October 1968, 23:13368(R) (GA-9080)
operations during August to October 1969, 24:11202(R) (GA-9797)
operations during August to October 1970, 25:18063(R) (GA-10400)
operations during February to April 1968, description of 150 equivalent full-power day core maintenance inspection, 22:39771 (GA-8679)
operations during January 1969, 23:19445(R) (TID-24960)
operations during January to April 1969, 23:33057(R) (GA-9360)
operations during May to July 1968, 23:4264(R) (GA-8816)
operations during November to January 1968, 22:22690(R) (GA-8500)
operations experience with, summary of, 23:4150
operations for June 1971, 25:53961 (DOCKET-50171-93)
operations history and statistics for 1968, 24:3996 (TID-25254)
operations history for April 1966, 24:22292 (TID-23301)
operations history for April 1967, 25:7947 (DOCKET-50171-70)
operations history for April 1968, 24:22308 (TID-24490)
operations history for April 1969, 23:45020 (DOCKET-50171-9)
operations history for April 1970, 24:33187 (DOCKET-50171-52)
operations history for April 1971, 25:41288 (DOCKET-50171-86)
operations history for August 1966, 25:7939 (DOCKET-50171-62)
operations history for August 1967, 24:22295 (TID-24048)
operations history for August 1968, 24:22313 (TID-24691)
operations history for August 1969, 24:1934 (DOCKET-50171-11)
operations history for August 1970, 24:52796 (DOCKET-50171-56)
operations history for December 1966, 25:7943 (DOCKET-50171-66)
operations history for December 1967, 24:22282 (DOCKET-50171-44)
operations history for December 1968, 24:22317 (TID-24920)
operations history for December 1969, 24:18483 (DOCKET-50171-25)
operations history for December 1970, 25:18061 (DOCKET-50171-77)
operations history for February 1967, 25:7945 (DOCKET-50171-68)
operations history for February 1968, 24:22304 (TID-24335)
operations history for February 1969, 24:22321 (TID-25005)
operations history for February 1970, 24:24715 (DOCKET-50171-47)
operations history for February 1971, 25:28562 (DOCKET-50171-83)
operations history for January 1967, 25:7944 (DOCKET-50171-67)
operations history for January 1968, 24:22302 (TID-24274)
operations history for January 1970, 24:20495 (DOCKET-50171-26)
operations history for January 1971, 25:23125 (DOCKET-50171-79)
operations history for July 1966, 25:7938 (DOCKET-50171-61)
operations history for July 1968, 24:22312 (TID-24634)
operations history for July 1969, 23:45021 (DOCKET-50171-10)
operations history for July 1970, 24:47714 (DOCKET-50171-55)
operations history for June 1966, 25:7937 (DOCKET-50171-60)
operations history for June 1967, 25:7949 (DOCKET-50171-72)
operations history for June 1968, 24:22311 (TID-24576)
operations history for June 1969, 23:43028 (DOCKET-50171-8)
operations history for June 1970, 24:43623 (DOCKET-50171-54)
operations history for March 1967, 25:7946 (DOCKET-50171-69)
operations history for March 1968, 24:22307 (TID-24376)
operations history for March 1969, 24:22322 (TID-25144)
operations history for March 1970, 24:28886 (DOCKET-50171-50)
operations history for March 1971, 25:36867 (DOCKET-50171-85)
operations history for May 1966, 25:7936 (DOCKET-50171-59)
operations history for May 1967, 25:7948 (DOCKET-50171-71)
operations history for May 1968, 24:22310 (TID-24525)
operations history for May 1969, 24:11074 (DOCKET-50171-19)
operations history for May 1970, 24:38425 (DOCKET-50171-53)
operations history for May 1971, 25:44004 (DOCKET-50171-90)
operations history for November 1966, 25:7942 (DOCKET-50171-65)
operations history for November 1967, 24:22299 (TID-24204)
operations history for November 1968, 24:22316 (TID-24864)
operations history for November 1969, 24:11076 (DOCKET-50171-21)
operations history for November 1970, 25:10114 (DOCKET-50171-75)
operations history for October 1966, 25:7941 (DOCKET-50171-64)
operations history for October 1968, 24:22315 (TID-24792)
operations history for October 1969, 24:8988 (DOCKET-50171-18)
operations history for October 1970, 25:7950 (DOCKET-50171-74)
operations history for September 1966, 25:7940 (DOCKET-50171-63)
operations history for September 1968, 24:22314 (TID-24749)
operations history for September 1970, 25:3784 (DOCKET-50171-58)
operations history for, 1967 and 1968, 23:9093 (GA-9047)
operations history of, 22:16148(R) (GA-8370)
operations history of, total, 22:1821
operations incident of August 6, 1969, failure of primary system stop valve to close, 25:20584 (DOCKET-50171-78)
operations incident of December 28, 1970, malfunction of helium monitoring moisture detectors, 25:10115 (DOCKET-50171-76)
operations of, tabulation of components and systems failures during, 25:39204(T) (LIB/Trans-357)
operations of, tabulation of systems and components failures during, 24:20580 (NP-18160)
operations report for September 1969, 24:5474 (DOCKET-50171-12)
owners of, financial data on, 23:19403 (DOCKET-50171-1)
performance of, analysis of component testing for, 22:30148 (GA-8040)
performance of, review of, 24:1956
personnel for, revised responsibilities of, 25:7985 (DOCKET-50171-73)
personnel for, revised technical specifications for, 25:28591 (DOCKET-50171-82)
personnel of, retraining program for operation, 24:24747 (DOCKET-50171-46)

- physics measurements during August to October 1969, 24:11202(R) (GA-9797)
- physics measurements for Core 2, 25:18063(R) (GA-10400)
- physics measurements in, low-power, 21:35626
- physics measurements on Core 2 subcritical loading, 24:35955(R) (GA-10099)
- physics measurements on Core 2, subcritical loading and zero power, 24:52809(R) (GA-10300)
- power calibration of, description of, 22:30148 (GA-8040)
- power coefficient measurements in, 22:16148(R) (GA-8370)
- power conversion system for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
- power history for May—July 1967, 22:12023(R) (GA-8153)
- power level calibration of, instrumentation for, 22:42188 (GAMD-7903)
- powerplant performance in HTGR, TAP computer program for transient analysis of, 21:7873 (GAMD-7248)
- pressure vessel for, design and testing of prestressed concrete, 21:34105 (GA-7150)
- pressure vessel for, design parameters, drawings, and specifications for, 23:19408 (DOCKET-50171-7)
- pressure vessel for, fast neutron effects on fracture strength of, (E), 24:35955(R) (GA-10099)
- pressure vessel for, fast neutron effects on fracture toughness of, (E), 24:52809(R) (GA-10300)
- pressure vessel for, in-vessel inspection of thermal barrier for, 24:35955(R) (GA-10099)
- pressure vessel for, radiation effects on, 24:4817 (GAMD-9393)
- pressure vessel thermal barrier in, photographic inspection of 168 and 300 equivalent full-power day operation effects on, 23:28361 (GAMD-8212)
- quality assurance program for, 25:41355 (DOCKET-50171-87)
- radiation monitoring during January 1969, 23:19445(R) (TID-24960)
- radioactive waste discharges from, review of, 24:28933 (BRH/DER-70-2)
- radioactivity inventories for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
- radwaste processing systems for, engineering drawings for, 23:19407 (DOCKET-50171-5)
- reactivity coefficient measurements in, for various fuel element configurations, (E/T), 21:12134 (GAMD-7355)
- reactivity helium flow coefficient for Core 2, (E), 24:52809(R) (GA-10300)
- reactivity measurements in, analysis of pulsed-source, 21:40596
- reactivity measurements in, graphical summary of temperature and xenon, 23:9093 (GA-9047)
- reactivity measurements of, using pulse—source methods, (E/T), 21:7929
- reactivity monitoring program for, 24:8987 (DOCKET-50171-17)
- reactivity of, effects of helium flow and mass on, 21:15653 (GAMD-7356)
- reactivity of, effects of variation of concentration of Xenon-135 and Samarium-149 poisoning on, 22:24959 (GAMD-7910)
- reactivity response to operational input perturbations in, 24:8986 (DOCKET-50171-16)
- reactivity temperature coefficient calculations for, 21:12135 (GAMD-7357)
- reactivity temperature coefficient for Core 2, (E/T), 24:52809(R) (GA-10300)
- reactivity temperature coefficients of, isothermal measurements of, 21:12136 (GAMD-7358)
- reactivity variations in rise-to-power during January to June 1967, effects of core temperature and power coefficients on, (E/T), 22:39772 (GAMD-7909)
- reactivity variations with core burnup and power variations in, (E/T), 24:1952(R) (GA-9494)
- reactivity worth measurements on, 21:12133 (GAMD-7354)
- reflector element for, effects of high flux and high temperature irradiation on graphite, (E), 24:45836 (GAMD-9911)
- reflector elements for, in-vessel inspection of, 24:35955(R) (GA-10099)
- refueling procedures for, 25:5906
- research and development programs for, preliminary safety analysis of, 24:20513 (DOCKET-50171-6)
- safety analyses for, 23:19403 (DOCKET-50171-1)
- safety analyses for, final, 23:19406 (DOCKET-50171-4)
- safety analysis for, graphs for, 23:19407 (DOCKET-50171-5)
- safety system for, transient testing performance of, 23:9095 (GAMD-7900)
- shielding for, final safety analysis of, 23:19405 (DOCKET-50171-3)
- shielding tests for, data and procedures for approach-to-power, 23:4143 (GAMD-7901)
- shutdown reactivity of, effects of xenon-135 on, 22:22690(R) (GA-8500)
- shutdown rod for, performance of thermally released, (E) , 24:35955(R) (GA-10099)
- shutdown rods for, safety analysis of temperature actuated, 25:44033 (DOCKET-50171-91)
- shutdown tests and inspections for, summary of Nov. 1968 to Jan. 1969, 23:21416(R) (GA-9237)
- site for, final safety analysis of, 23:19404 (DOCKET-50171-2)
- site for, guide to environmental monitoring and recording requirements for, 24:52823 (DOCKET-50171-57)
- site for, preliminary safety analysis of, 23:19403 (DOCKET-50171-1)
- startup of, description of physics and engineering measurements during, 22:32809
- startup physics testing and operation with core 2, 25:50948
- startup program measurements in, 21:35626
- startup program of, summary for approach to power, 21:23600(R) (GA-7830)
- startup reactivity of, effects of xenon-135 on, 22:22690(R) (GA-8500)
- steam and power conversion system for, final safety analysis of, 23:19406 (DOCKET-50171-4)
- steam generator for, evaluation of performance of, 22:42188 (GAMD-7903)
- steam generator for, operation testing for, 21:42783
- steam generators for, analysis of effects of tube rupture in, 23:19403 (DOCKET-50171-1)
- steam generators for, design parameters, drawings and specifications for, 23:19408 (DOCKET-50171-7)
- steam generators for, development and performance of, 25:31623 (GA-10338)
- steam system for, preliminary safety analysis of tube ruptures in steam generator for, 24:20513 (DOCKET-50171-6)
- technical specifications for, Core 2 fuel elements and loading, 24:22338 (DOCKET-50171-45)
- technical specifications for, core components inspection procedures, 24:11075 (DOCKET-50171-20)
- technical specifications for, limits on reactivity and power anomalies in, 24:8985 (DOCKET-50171-15)
- technical specifications for, modification of containment isolation system, 24:28946 (DOCKET-50171-51)
- technical specifications for, modification of fuel element design and testing programs, 24:26715 (DOCKET-50171-48)
- technical specifications for, modification of fuel pin design parameters and radiation testing requirements, 24:8984 (DOCKET-50171-14)
- technical specifications for, modification of reactor core, 24:28946 (DOCKET-50171-51)
- technical specifications for, modification of support member for Core 2 B16.10 fuel element, 24:28945 (DOCKET-50171-49)
- technical specifications for, modification of test fuel elements, 24:28946 (DOCKET-50171-51)
- technical specifications for, modification of waste disposal, 24:28946 (DOCKET-50171-51)
- testing of, approach-to-power, 22:12023(R) (GA-8153)
- testing of, description of approach-to-power, 22:42188 (GAMD-7903)
- thermal efficiency as a function of power level, 22:16148(R) (GA-8370)
- turbines for, structural materials for gas, 21:34095 (EUR-2757.e, pp 261-)
- xenon decay and buildup following 300 EFPD in, 23:21416(R) (GA-9237)
- xenon worth in, decay and buildup of, (E/T), 24:1952(R) (GA-9494)
- zero-power experiments in, 22:24939 (CONF-660524-, pp 695-715)

PEACH BOTTOM POWER REACTOR, UNIT 2 (1,065 Mw(e))

- applicability of ACRS findings on Brown's Ferry Reactor to, 22:22673 (DOCKET-50277-3)
- buildings and structures for, final safety analysis of, 24:45957 (DOCKET-50277-15)
- buildings and structures for, survey of low strength concrete in, 24:38460 (DOCKET-50277-10)
- construction of, request for not suspending permit for, 25:59959 (DOCKET-50277-24)
- containment structures for, final safety analysis of, 24:45954 (DOCKET-50277-12)
- containment structures for, final safety analysis of, 24:45959 (DOCKET-50277-17)
- containment system for, preliminary safety analysis report on pressure suppression, 22:18371 (DOCKET-50277-1)
- containment systems for, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
- control system and instrumentation for, final safety analysis of, 24:45956 (DOCKET-50277-14)
- control systems and instrumentation for, final safety analysis of, 24:45955 (DOCKET-50277-13)
- control systems and instrumentation for, preliminary analysis report on, 22:22673 (DOCKET-50277-3)
- control systems and instrumentation for, preliminary safety analysis report on, 22:18371 (DOCKET-50277-1)
- coolant loss accident at, preliminary safety analysis report on, 22:18373 (DOCKET-50277-5)
- coolant loss conditions in, analysis of thermal shocks from, 24:47759 (DOCKET-50277-18)
- cooling system for, final safety analysis of, 24:45954 (DOCKET-50277-12)
- cooling system for, safety analysis of cooling tower secondary, 24:47759 (DOCKET-50277-18)
- core for, final safety analysis of, 24:45959 (DOCKET-50277-17)
- core for, preliminary safety analysis of design for, 22:18371 (DOCKET-50277-1)
- design parameters of, 24:45957 (DOCKET-50277-15)
- design parameters of, 24:45954 (DOCKET-50277-12)
- design parameters of, 24:45956 (DOCKET-50277-14)
- design parameters of final safety analysis of, 24:45958 (DOCKET-50277-16)
- design parameters of, final safety analysis of, 24:45959 (DOCKET-50277-17)
- design parameters of, final safety analysis of, 24:45953 (DOCKET-50277-11)
- design parameters of, final safety analysis of, 24:45955 (DOCKET-50277-13)
- design parameters of, revised and additional data on, 25:48188 (DOCKET-50277-22)
- drawings for, complete set of reduced-size engineering, 22:18372 (DOCKET-50277-2)
- effluents from, effects on environment of chemical, radioactive, and thermal, 25:36937 (DOCKET-50277-20)
- electrical system for, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
- electrical systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
- emergency and auxiliary systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
- emergency core cooling system for, final safety analysis of, 24:45955 (DOCKET-50277-13)
- emergency core cooling system for, safety analysis of, 24:47759 (DOCKET-50277-18)
- excursion description and design basis accident analysis for Units 2 and 3 of, preliminary safety analysis reports giving, 22:18371 (DOCKET-50277-1)
- incidents in, preliminary safety analysis reports on, 22:22673 (DOCKET-50277-3)
- inspection of, final safety analysis of in-service, 24:45959 (DOCKET-50277-17)
- operation aspects of, 24:45956 (DOCKET-50277-14)
- operations aspects of, 24:45954 (DOCKET-50277-12)
- operations aspects of, 24:45957 (DOCKET-50277-15)
- operations aspects of, final safety analysis of, 24:45958 (DOCKET-50277-16)
- operations aspects of, final safety analysis of, 24:45959 (DOCKET-50277-17)
- operations aspects of, final safety analysis of, 24:45953 (DOCKET-50277-11)
- operations aspects of, final safety analysis of, 24:45955 (DOCKET-50277-13)
- operations aspects of, revised and additional data on, 25:48188 (DOCKET-50277-22)
- owners of, financial statements of, 22:18374 (DOCKET-50277-6)
- piping systems for, fabrication and stress testing of, 25:31502 (DOCKET-50277-19)
- pressure vessel for, fabrication and stress testing of, 25:31502 (DOCKET-50277-19)
- pressure vessel for, final safety analysis of, 24:45959 (DOCKET-50277-17)
- quality assurance program for, final safety analysis of, 24:45958 (DOCKET-50277-16)
- radiation protection at, final safety analysis of, 24:45956 (DOCKET-50277-14)
- radioactive waste handling at, final safety analysis of, 24:45956 (DOCKET-50277-14)
- shielding for, final safety analysis of, 24:45957 (DOCKET-50277-15)
- site for, 1 January 1967—31 December 1967 environment radiation survey for, 24:16039 (DOCKET-50277-9)
- site for, 1 January—31 December 1966 environmental survey for, 24:13469 (DOCKET-50277-7)
- site for, environmental radiation survey for, 25:31502 (DOCKET-50277-19)
- site for, final safety analysis of, 24:45953 (DOCKET-50277-11)
- site for, flood hazards of, 24:47759 (DOCKET-50277-18)
- site for, geological, hydrological, and meteorological data for, 25:36937 (DOCKET-50277-20)
- site for, hydrological and meteorological data for, 25:31502 (DOCKET-50277-19)
- site for, March 1960—January 1966 preoperational environmental survey for, 24:13470 (DOCKET-50277-8)
- site for, meteorological data for, 24:45959 (DOCKET-50277-17)
- siting of, preliminary safety analysis report on, 22:18371 (DOCKET-50277-1)
- siting of, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
- stability analysis of, preliminary safety analysis report on, 22:22674 (DOCKET-50277-4)
- steam and power conversion systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
- technical specifications for, proposed, 25:53997 (DOCKET-50277-23)
- thermal effluent effects on the Susquehanna River, 24:16115

PEACH BOTTOM POWER REACTOR, UNIT 3 (1,065 Mw(e))

- applicability of ACRS findings on Brown's Ferry Reactor to, 22:22673 (DOCKET-50277-3)
- buildings and structures for, final safety analysis of, 24:45957 (DOCKET-50277-15)
- buildings and structures for, survey of low strength concrete in, 24:38460 (DOCKET-50277-10)
- construction of, request for not suspending permit for, 25:59959 (DOCKET-50277-24)
- containment structures for, final safety analysis of, 24:45954 (DOCKET-50277-12)
- containment structures for, final safety analysis of, 24:45959 (DOCKET-50277-17)
- containment system for, preliminary safety analysis report on pressure suppression, 22:18371 (DOCKET-50277-1)
- containment systems for, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
- control system and instrumentation for, final safety analysis of, 24:45956 (DOCKET-50277-14)
- control systems and instrumentation for, final safety analysis of, 24:45955 (DOCKET-50277-13)
- control systems and instrumentation for, preliminary analysis report on, 22:22673 (DOCKET-50277-3)
- control systems and instrumentation for, preliminary safety analysis report on, 22:18371 (DOCKET-50277-1)
- coolant loss accident at, preliminary safety analysis report on, 22:18373 (DOCKET-50277-5)
- coolant loss conditions in, analysis of thermal shocks from, 24:47759 (DOCKET-50277-18)
- cooling system for, final safety analysis of, 24:45954 (DOCKET-50277-12)
- cooling system for, safety analysis of cooling tower secondary, 24:47759 (DOCKET-50277-18)
- core for, final safety analysis of, 24:45959 (DOCKET-50277-17)
- core for, preliminary safety analysis of design for, 22:18371 (DOCKET-50277-1)
- design parameters of, 24:45954 (DOCKET-50277-12)
- design parameters of, 24:45957 (DOCKET-50277-15)
- design parameters of, 24:45956 (DOCKET-50277-14)

  design parameters of final safety analysis of, 24:45958 (DOCKET-50277-16)
  design parameters of, final safety analysis of, 24:45959 (DOCKET-50277-17)
  design parameters of, final safety analysis of, 24:45953 (DOCKET-50277-11)
  design parameters of, final safety analysis of, 24:45955 (DOCKET-50277-13)
  design parameters of, revised and additional data on, 25:48188 (DOCKET-50277-22)
  drawings for, complete set of reduced-size engineering, 22:18372 (DOCKET-50277-2)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:36937 (DOCKET-50277-20)
  electrical system for, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
  electrical systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
  emergency and auxiliary systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
  emergency core cooling system for, final safety analysis of, 24:45955 (DOCKET-50277-13)
  emergency core cooling system for, safety analysis of, 24:47759 (DOCKET-50277-18)
  excursion description and design basis accident analysis for Units 2 and 3 of, preliminary safety analysis reports giving, 22:18371 (DOCKET-50277-1)
  incidents in, preliminary safety analysis reports on, 22:22673 (DOCKET-50277-3)
  inspection of, final safety analysis of in-service, 24:45959 (DOCKET-50277-17)
  operation aspects of, 24:45956 (DOCKET-50277-14)
  operations aspects of, 24:45954 (DOCKET-50277-12)
  operations aspects of, 24:45957 (DOCKET-50277-15)
  operations aspects of, final safety analysis of, 24:45959 (DOCKET-50277-17)
  operations aspects of, final safety analysis of, 24:45958 (DOCKET-50277-16)
  operations aspects of, final safety analysis of, 24:45953 (DOCKET-50277-11)
  operations aspects of, final safety analysis of, 24:45955 (DOCKET-50277-13)
  operations aspects of, revised and additional data on, 25:48188 (DOCKET-50277-22)
  owners of, financial statements of, 22:18374 (DOCKET-50277-6)
  piping systems for, fabrication and stress testing of, 25:31502 (DOCKET-50277-19)
  pressure vessel for, fabrication and stress testing of, 25:31502 (DOCKET-50277-19)
  pressure vessel for, final safety analysis of, 24:45959 (DOCKET-50277-17)
  quality assurance program for, final safety analysis of, 24:45958 (DOCKET-50277-16)
  radiation protection at, final safety analysis of, 24:45956 (DOCKET-50277-14)
  radioactive waste handling at, final safety analysis of, 24:45956 (DOCKET-50277-14)
  shielding for, final safety analysis of, 24:45957 (DOCKET-50277-15)
  site for, 1 January 1967—31 December 1967 environment radiation survey for, 24:16039 (DOCKET-50277-9)
  site for, environmental radiation survey for, 25:31502 (DOCKET-50277-19)
  site for, final safety analysis of, 24:45953 (DOCKET-50277-11)
  site for, flood hazards of, 24:47759 (DOCKET-50277-18)
  site for, geological, hydrological, and meteorological data for, 25:36937 (DOCKET-50277-20)
  site for, hydrological and meteorological data for, 25:31502 (DOCKET-50277-19)
  site for, March 1960—January 1966 preoperational environmental survey for, 24:13470 (DOCKET-50277-8)
  site for, meteorological data for, 24:45959 (DOCKET-50277-17)
  siting of, preliminary safety analysis report on, 22:18371 (DOCKET-50277-1)
  siting of, preliminary safety analysis report on, 22:22673 (DOCKET-50277-3)
  stability analysis of, preliminary safety analysis report on, 22:22674 (DOCKET-50277-4)
  steam and power conversion systems for, final safety analysis of, 24:45956 (DOCKET-50277-14)
  technical specifications for, proposed, 25:53997 (DOCKET-50277-23)
  thermal effluent effects on the Susquehanna River, 24:16115
Peanuts (Arachis)
    see Arachis under Angiospermidae
Peanuts (the commodity)
    see Fruits—peanuts
PEARLITE
  etching and polishing of, ac electrolytic method for, 24:25668
  production of nodules of, effects of chromium and molybdenum on, 22:636
  radiation effects on corrosion and electrochemical behavior of steel, thermal neutron, 22:52224
PEARLS
  analysis for manganese and sodium by activation methods, 21:30368
  radiation effects on color of, effects of manganese content of shell on γ, 22:10856
Peas (Pisum)
    see Pisum under Angiospermidae
Peas (the commodity)
    see peas under Vegetables
PEAT
    see also Humic Acids
  age determination of, carbon-13 to carbon-12 ratio analysis for, 22:48940
  age estimation of organic mud containing, in Wales, radiocarbon method for, 21:19766
  age of Florida Everglades, carbon-14 method for estimation of, 24:2303
  analysis for rare earths following separation using hexahydro-2H-azepin-2-one, isoamyl alcohol, and TBP, photometric, 25:48451
  drying of shredded, on moist soil, radioactive tracer studies of mechanisms of, 22:25620
  incineration of radioactive waste-containing, for disposal, 23:35443(P)
  ion exchange properties of, 21:366(R) (UCB-34-P-23-1)
  moisture content in, gamma radiometric measurement of, 23:50201
  radioactive waste binding by, 22:33505
  radium occurrence in, effects of ionic bonds and alkaline earth elements on form of, 22:33566
  sorptive properties for iodine-131 and strontium-90—yttrium-90 from water, 25:48570 (NP-18919)
  sorptive properties for radium and uranium, 22:8209
  sorptive properties for radium and uranium from natural waters, 23:17525
  sorptive properties of humic acid-enriched, for molybdenum, 23:17524
  strontium retention by, effects of saturation with potassium compounds on, 25:13118(R) (COO-414-17)
  strontium-90 uptake by, (E), 25:21184
  uranium content of, effect of peat composition on, 21:32283
  uranium content of, effects of humidity on, 25:13116
  uranium content of, effects of organic matter and water salinity on, 22:40214
  water content in, use of neutron-backscattering moisture gages for determining, 22:25684
PEBBLE BED REACTOR EXPERIMENT (ORNL)
  bibliography on, 23:9120 (JUL-Bibl.-14)
  coolant velocity profile measurements in full-scale core model of, 21:17466 (ORNL-P-1798)
  description of, 21:14024
Pebble-bed Reactors
    see Reactors, Pebble-Bed
PEC FAST TEST REACTOR
  accident classes for, definition of credible, 22:53446
  components of 140 MW(t) liquid sodium cooled, illustrations of, 23:47229(T) (AEC-tr-7084)
  containment building for, model tests on seismic response of, 24:11270 (RT/ING-(69)5)
  control rods for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  control rods for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
  control system for, comparison of analytical and mockup studies for, 23:52418
  control systems and instrumentation for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  control systems and instrumentation for, design of, 22:30310(T) (ORNL-tr-1787(Vol.1))
  coolant loss accidents in, effects of power supply failure on, 22:53444
  coolant pumps for, evaluation of types of motors for, 22:53444
  core for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  core for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
  data acquisition system for, description of automatic, 22:30310(T) (ORNL-tr-1787(Vol.1))
  description of, for fast fuel element testing, 22:1867(T) (ORNL-tr-1786)
  design drawings for, 22:32968 (EURFNR-478)
  design features of, review of, 24:11263 (EURFNR-709)
  design of, coneptual, 22:16207
  design of, definition of "design earthquake" intensity for use in, 24:29401 (RT/ING-(69)22)
  design of, general description of, 22:30157 (PRV-(66)45(Sect.1))
  design of, seismic considerations for, 24:29402 (RT/ING-(69)23)
  design of, seismic considerations for, 24:29405 (RT/ING-(70)1)
  design of, seismic considerations for, 24:29404 (RT/ING-(69)25)
  design of, seismic criteria for, 25:26018 (RT/ING-(70)1)
  design parameters for, 22:32968 (EURFNR-478)
  design parameters for, review of preconstruction, 23:47232 (ANL-7520(Pt.2), pp 269-90)
  design parameters for, tabulation of, 24:16147
  design parameters of, 24:41054 (TRG-Report-1911, pp 564-95)
  design parameters of 140 MW(t) liquid sodium cooled, 23:47229(T) (AEC-tr-7084)
  development of 140 MW(t) liquid sodium cooled, review of, 23:47229(T) (AEC-tr-7084)
  development of, summary of CNEN activities on, 25:8115 (EURFNR-826)
  dynamic behavior under accident conditions, 22:53445
  emergency power supply for, evaluation of, 22:53444
  excursions in, effects of core trapped coolant on fuel energy release during, (T), 23:43135
  fuel elements for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  fuel elements for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
  fuel elements for, design parameters of, 25:48316
  loading machine for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  loading machine for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
  physics measurements of 140 MW(t) liquid sodium cooled, 23:47229(T) (AEC-tr-7084)
  safety analysis of, 22:53445
  safety characteristics of, definitions of, 22:53446
  shielding for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  shielding for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
  site for, geologic and seismic survey of, 25:26018 (RT/ING-(70)1)
  test facilities for, design drawings for, 22:30311(T) (ORNL-tr-1787(Vol.2))
  test facilities for, design parameters for, 22:30310(T) (ORNL-tr-1787(Vol.1))
Pectinase
    see Polygalacturonase
PECTINESTERASE
  radiation effects on activity of, in juice of oranges, cobalt-60 γ, 23:29932
  radiation effects on activity of, in peaches, effects of dose and storage on γ, 23:10154
  radiation effects on activity of, in strawberries, effects of maturity on γ, 25:27160
  radiation effects on content of, in fruits and vegetables, effects of state of purification on γ, 22:30954
  radiation effects on synthesis of, in Penicillium expansum, γ, 25:10979
  radiation effects on, in citrus fruits, effects of dose on γ, 23:38472
  radioinduced changes in activity of, in strawberries, γ, 24:34833
  radioinduced inactivation of, in aqueous solutions and dry state, effects of concentration on cobalt-60 γ, 24:6007
PECTINS
  carbon-12 content of, of plankton, 22:40609
  content of methoxyls, viscosity, and yield of, from irradiated residue of Valencia oranges, 25:8823
  effects of dietary, on strontium-90 metabolism in animals and man, review on, 25:23972(T) (AEC-tr-7195, pp 209-19)
  effects on distribution of colloidal gold-198 in organs and tissues of rats, 25:23971(T) (AEC-tr-7195, pp 197-208)
  effects on iron-59 excretion in rats, 22:21455
  ion exchange selectivity for barium, calcium, and strontium, 25:23587
  radiation chemistry of, 22:52123
  radiation effects on content of, in apples, γ, 21:34840(R) (NYO-3274-13)
  radiation effects on content of, in dehydrated and fresh carrots, electron, 23:29942
  radiation effects on content of, in mangoes, γ, 23:961
  radiation effects on content of, in peaches, effects of, on storage life, γ, 23:10154
  radiation effects on content of, in ripe and unripe strawberries, γ, 23:5063
  radiation effects on content of, in tomatoes, cobalt-60 γ, 24:12345
  radiation effects on metabolism of, in pears grown in air containing 10 percent carbon dioxide, γ, 25:46716
  radiation effects on metabolism of, in strawberries, effects of maturity on, 25:27160
  radiation effects on solubility of, in tomatoes, γ, 25:613
  radiation effects on, in citrus fruits, effects of dose on γ, 23:38472
  radiation effects on, in papaya, γ, 22:45737
  radiation effects on, in presence of water, gamma, 21:377
  radioinduced breakage of molecules of, in relation to organoleptic properties of fruits, γ, 24:48782
  radioinduced changes in, in strawberries, effects of stage of maturation on γ, 24:34833
  radioinduced decomposition of, in fresh fruits and vegetables, γ, 22:8671
  radioinduced degradation of, in fresh fruits and vegetables, effects of dose rate on γ, 24:48786
  radioinduced production of free radicals in, effects of hydrochloric acid and moisture content on x, 24:48419
  zinc-65 content of, in cell walls of maize seedlings, 22:45403
PEGASE
    see Cadarache Reactors
PEGMATITE DEPOSITS
    see also Granite Deposits
    see also Igneous Deposits
  geology of uraniferous, in Ontario, 22:45202
  mineralogy of St. Gotthard Massif, Switzerland, 23:473
  reserves and resources of South African, for rare earth production, 24:22798 (PEL-193)
  uranium content of Cordoba Province, in Argentina, 24:27249 (CNEA-256)
  uranium oxide content of South African, 24:9502
PEGMATITES
  age of Indian, lead-207/uranium-235 method for estimation of, 21:45241
  age of North American, use of argon/potassium method for estimation of, 21:39030(R) (COO-689-76)
  age of North Karelian, lead isotope method for estimation of, 25:21180
  age of Yoshimuraite, from Taguchi mine in Japan, rubidium/strontium method for estimation of, 24:25119
  age of, argon/potassium method for estimation of, 24:9517
  analysis for potassium, thorium, and uranium in, from SE Mysore, India by γ spectrometry, 23:43255
  formation of, processes in, 22:7981(T) (WAPD-Trans-80)
  phases in beryl, vertical repartition of, 22:27932
  processing of, development of methods for, 23:40887(R) (NP-17982)
  processing of, leaching studies for, 25:54752
  radioactivity of central African, 23:11669
  radioactivity of, in granitic rock, 21:3197
  research program on, in South Africa, 21:45266
  sulfur-32/-34 ratio in, effect of palingenetic processes on, 21:6017
  trace element content in feldspar of Virginia, 21:39030(R) (COO-689-76)
  uranium content and distribution in, coexisting with feldspars, fission track method for determining, 25:6440
Pelargonic Acid
    see Nonanoic Acid

PELINDUNA-O
  see Critical Assemblies
PELLETS
  design of slotted ceramic fuel, for rod-type elements, 23:8281(P)
  irradiation of, equipment for uniform, 21:39100(P)
  sorting of spherical, apparatus for size, 21:15809(P)
Pelomyxa
  see under Protozoa
PEMOLINE
  magnesium, radioprotective effects of, on growth pattern and morphology of Ehrlich tumor cells in mice, x, 24:51036
  radioprotective effects of magnesium compounds of, on survival of mice, x, 22:40754
  radioprotective effects of magnesium compounds of, on survival of mice in comparison to pemoline and dextroamphetamine, x, 22:40746
  radioprotective effects of, on mice, effects of pre- and postexposure administration on x, 25:2576
  radioprotective effects of, on mice, x, 22:25921
PENDULUMS
  design of ballistic, for transducer calibration, engineering drawings for, 21:36467
  development of torsional, for Ames Research Reactor, 21:42813 (IS-1600, Paper 7)
PENETRAMETERS
  design for radiographic inspection of diodes, semiconductors, or transistors, 21:246
  design of isotopic, using cesium-137 and cobalt-60, 21:34425
  development for determining deceleration of projectiles in soil-like materials, 21:21834 (SC-DR-66-2715)
  development of sea ice, for remote measurements, 24:53061 (SC-DR-70-483)
  use of copper, for radiographic measurement of x-ray beams in comparison with scintillation spectrometer, 24:14484
PENETRANT TESTING
  development and uses in industry, review on, 25:21265
  equipment and method for concretes, 24:27306
  equipment and methods for liquid propellant rocket engine components, 23:17723
  equipment and methods for, historical development and current status of, 25:34835
  krypton-85 method for detection of microscopic defects in material surfaces, 24:14209
  krypton-85 method for materials fatigue, surface and thermal conditions for, 24:11750
  method for nondestructive inspection of materials, review of, 25:26440
  method for reactor welded joints, 25:57680 (ORNL-TM-3561)
  method for small metal tubes, 24:14206
  method for type 316 stainless steel fuel element cladding, 23:33354
  penetrant sensitivities in, comparison of liquid, 25:34475 (SC-DR-70-288-A)
PENICILLAMINE
  copper complexes with, radiation chemistry of, ionizing, 25:4547
  effects on cobalt-60 retention by organs of rats, 23:50281
  effects on hepato-enteral flow of strontium, 21:17973
  effects on mercury-203 distribution and retention in rats, 21:45498 (NP-16874)
  effects on mercury-203 excretion by rats, 21:28388
  effects on renal clearance of mercury-203-labeled chlormerodrin in man, 25:16253
  effects on synthesis of DNA and RNA in thymus gland of rats, tracer study of, 25:4592
  effects on x-radiosensitivity of collagen gel, 25:26802
  effects on yields from γ radiolysis of aqueous 3,3'-dithiodivaline solutions, 23:28872
  hydrochloride, radiation effects on single crystals of, ESR studies of x, 25:54605
  radiation effects on electron spin resonance spectra of, effects of temperature on x, 22:36194
  radiation effects on oxidized, ESR study of radicals from x, 21:14267
  radioinduced formation of free radicals in, ESR spectra of uv, 22:10720
  radioinduced free radicals in, in vitro, combined effects of thermal hydrogen atoms on uv, 23:45672
  radioinduced production of free radicals in, x, 24:7760
  radioinduced sulfur radicals in penicillamine-sephadex, effects of heat on x, 22:6734
  radiolysis in dilute aqueous solutions, γ, 23:24241
  radiolysis of aqueous solutions of, 21:25873(R) (NYO-3383-06)
  radiolysis of oxidized or reduced, on Sephadex at 77°K, ESR studies on x, 25:26299
  radioprotective effect in x-irradiated E. coli B cells, effect of preirradiation oxygenation on, 21:20284
  radioprotective effects in Escherichia coli B, effects of incubation temperature and time on x, 21:26485
  radioprotective effects of, on glycine and glycylglycine substrates, γ, 23:31643
  radioprotective effects of, on mammalian cells, γ and x, 22:38407
  radioprotective effects of, on reproduction of cultured animal cells, x, 23:8028
  radioprotective effects on protein molecules, 23:19757
  reactions with hydrogen peroxide and titanium trichloride, ESR spectral studies on free radicals produced by, 22:2147
  reactions with protein-bound cadmium or mercury, 24:16651
  use for determination of mercury by paper chromatography and isotope dilution, 23:6085
  yields from γ radiolysis of aqueous 3,3'-dithiodivaline solutions, effects of radical scavengers on, 23:28872
  yields of derivatives of, from γ radiolysis of aqueous 3,3'-dithiodivaline solutions, effects of radical scavengers on, 23:28872
  radioinduced unpaired spins in frozen aqueous solutions of, containing Sephadex or Thiogel macromolecule ESR analysis of effects of pH on x, 22:45439
Penicillamine, N-Acetyl-
  see Valine, N-Acetyl-3-mercapto-
Penicillamine Disulfide
  see Valine, 3,3'-Dithiodi-
Penicillaminic Acid
  see Valine, 3-Sulfo-
PENICILLIN
  biological activity of, effects of deuterium on, 25:10560
  cobalt-60 retention in rats following application of derivatives of, 23:50281
  content of, in pleural fluid of irradiated and unirradiated rats, 21:4852
  effects of diet enriched in, on mutation frequency in x-irradiated Drosophila, 21:8771
  effects of, on formation of autoantibodies in rabbits during radiation sickness, 21:11023
  effects of, on growth of Staphylococcus aureus, 21:6747
  effects of, on survival in lethally irradiated mice, 21:4840
  effects on γ-irradiated rats, 25:21860
  effects on immunologic specificity of liver proteins in rabbits during radiation sickness, 21:20053
  effects on immunological specificity of liver proteins of x-irradiated rabbits, 21:16286
  effects on induction of L-forms of Listeria monocytogenes, 23:10091
  effects on permeability of gastrointestinal tract of mice during radiation sickness, effects of carrier on, 24:34693
  effects on recovery of γ-irradiated Staphylococci, 23:10152
  effects on salt-induced mutant of Escherichia coli, 23:24774
  effects on Staphylococcus aureus E169, use of uv-irradiated transducing phage lysates for studying chromosomal relations, 25:19157
  effects on stimulation of erythropoiesis in irradiated rats, combined effects of erythrocytes and vitamins on, 24:840
  effects on survival of Escherichia coli, comparison of, to γ radiation effects, 21:34713
  effects on uv-radiosensitivity of Escherichia coli K$_{12}$, 22:21469
  effects on x-radioinduced mutations in barley for chlorophyll production, 25:21968
  effects on x-radiosensitivity of autoimmune processes in rabbits, 22:21446
  infectivity in uv-radioinduced mutant of blue-green algae, 23:48023
  potassium salts of, radiation effects on biological activity of, electron, 21:26697
  production by Penicillium chrysogenum, combined effects of deuterium oxide and genetic strain on, 24:19376
  production of, effects of deuterium on, 23:10127
  protective effects of, against radiomimetic effects of oxidized oleic acid on mice and yeasts, 22:19380
  radiation effects on action of, in central nervous system of rabbits, 25:13561
  radiation effects on sensitivity of bacteria and yeast to, γ, 22:52054
  radiation effects on sensitivity of Salmonella to, γ, 23:18135 (CONF-681006-, pp 231-4)
  radiation effects on transduction of resistance to, in bacteriophages, uv, 22:51551
  radioprotective effects of, in patients during therapy, 21:32715
  radioprotective effects of, on mice infected with Clostridium perfringens, x, 24:14524
  radioprotective effects of, on mice, whole-body lethal cobalt-60 γ, 25:6713
  radioprotective effects of, on monkeys, 23:9972(T) (AEC-tr-6713, pp 19-21)
  sodium salts of, radiation effects on biological activity of, electron, 21:26697
  use for treatment of radiation sickness in monkeys, 23:9975(T) (AEC-tr-6713, pp 32-5)
PENICILLIN G
  effect on x-radiosensitivity of reticulo-endothelial system in mice, combined effects of potassium ions on, 23:2921
PENICILLIN V
  effect on x-radiosensitivity of reticulo-endothelial system in mice, combined effects of potassium ions on, 23:2921
PENICILLINASE
  radiation effects on activity of extracts of, from Bacillus licheniformis, 22:8443
  synthesis by Staphylococcus aureus, chromosomal location of genetic elements controlling, 22:51551
  synthesis by Staphylococcus, use of uv-irradiated transducing phage for mapping of gene-loci for, 22:51532
Penicillium
  see under Eumycota
PENIS
  radiotherapy of carcinomas of human, use of surface moulage in rotational cobalt-60 γ, 23:38713
  radiotherapy of plastic induration of human, effectiveness of strontium-90 β, 25:19072
PENNSYLVANIA
  radiation hazards from color television sets in, during 1968 to 1970, survey of x, 25:42501
  radiation monitoring of environs of Shippingport Atomic Power Station during 1969, 25:13398
  radiation protection regulations, 1956, 22:31100
  radioactivity monitoring in environs of Shippingport Atomic Power Station in, during 1967, 24:2610
  radioisotope content of Kiskiminetas and Susquehanna Rivers of, effects of coal mining on, 25:16185
Pennsylvania Advanced Reactor (PAR)
  see Reactors, Power
PENNSYLVANIA RESEARCH REACTOR
  operation during July 1, 1970 to June 30, 1971, summary of, 25:50933(R) (NYO-1859-17)
  operation history of, 21:38667(R) (NYO-1859-13)
PENTABORANE(9)
  radiolysis of gaseous, γ, 22:30639
  radiolysis of gaseous, yields of nonvolatile and volatile solids from γ, 24:48067 (ORNL-4581, pp 131-82)
PENTACENE
  effects on excretion of inhaled thulium-170 by man, 22:31216
PENTADECANE
  radioinduced chlorination of, effects of radiation dose and temperature on, 23:9482
PENTADECANE, 2,6,10,14-TETRAMETHYL-
  radiation effects on content in fish oil, γ, 21:20454(R) (NYO-3499-2)
8-PENTADECYNOIC ACID
  synthesis of, 22:33717 (UCLA-12-640, pp 81-90)
9-PENTADECYNOIC ACID
  synthesis of, 22:33717 (UCLA-12-640, pp 81-90)
1,3-PENTADIENE
  effects on γ-radioinduced polymerization of styrene in carbon tetrachloride or hexachlorobutadiene solutions, 25:57454
  effects on photodimerization of cyclohexenone, 23:6163
  effects on radiolysis of benzanthracene and naphthalene in liquid and solid solutions, 23:40713
  hydrogen shift in cis isomer of, effects of deuterium on, 21:15885
  yields in radiolysis of cyclopentane, 22:50998
  yields of, in gamma radiolysis of liquid cyclopentane, 21:14239 (ORO-3106-17)
  1,3-pentadiene—tetrahydrofurfuryl alcohol, radiolysis of, yields from γ, 23:47464 (ORNL-4373)
  2-furaldehyde—1,3-pentadiene, radiolysis of, yields from γ, 23:47464 (ORNL-4373)
  1,2,3,4,5,6,7,8,9,10,11,12-dodecahydrotriphenylene—1,3-pentadiene, radioinduced polymerization of, preparation of trans-1,4-pentadiene by γ, 21:45177
  furfuryl alcohol—1,3-pentadiene, radiolysis of, yields from γ, 23:47464 (ORNL-4373)
1,4-PENTADIENE
  polymers, preparation of trans-, by γ-induced polymerization of optical active perhydrotriphenylene and 1,3-pentadiene, 21:45177
  yields in radiolysis of cyclopentane, 22:50998
  yields of, in gamma radiolysis of liquid cyclopentane, 21:14239 (ORO-3106-17)
1,3-PENTADIENE, 2-METHYL-3,4,5,5,5-PENTAFLUORO-
  radioinduced polymerization at -196 to 25°C, properties and structure of products of γ, 25:41848
  radioinduced polymerization at 25 to -196°C, 25:34633
1,3-PENTADIENE, OCTACHLORO-
  radiolysis of, effects of dose on yields from γ, 21:122
1,3-PENTADIENE, 3,4,5,5,5-PENTAFLUORO-
  radioinduced polymerization at -196 to 25°C, properties and structure of products of γ, 25:41848
  radioinduced polymerization at 25 to -196°C, 25:34633
1,3-PENTADIENE, 1,1,2-TRICHLORO-
  radioinduced polymerization in liquid and solid phases, γ, 23:33239
  radioinduced polymerization with styrene, γ, 23:33239
2,4-PENTADIENOIC ACID
  radioinduced polymerization of, in solid state, gamma, 21:10375(R) (NYO-1715-16)
PENTAERYTHRITOL
  see also Dipentaerythritol Hexanitrate
  tetranitrate, vapor pressure at 50 to 98°C, 23:49685 (UCRL-50704)
PENTAERYTHRITOL TETRANITRATE
  detonation of, time-resolved emission spectra of products from, 22:3993 (UCRL-50328)
  ignition of deflagrations in, with slowly exploding wires, 22:7951 (LA-DC-8956)
  relaxation processes in crystals of, 23:28673(R) (UCRL-50006-69)
  shock sensitivity of charges of, small scale gap testing of, 23:21586 (AWRE-O-65/68)
Pentamethylenetetrazole
  see Pentylenetetrazole
PENTANE
  bromine-80 isomeric transitions in, at 77 deg K, 21:133
  determination in effluent from gas chromatograph, performance of Geiger—Mueller counter with external γ source for, 25:10888
  determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  deuterium exchange between, and butane on platinum—alumina contact, effects of temperature on, 22:4144
  diffusion of vaporized, into flowing streams of nitrogen, 21:41100 (UCRL-17527)
  effects of, on yields in gamma radiolysis of tetrachloroethylene, 21:5834 (IA-1082, pp 77-202)
  effects on deuterated and normal acetic acid solutions, Raman spectra of, 21:30428
  effects on yields in photolysis and radiolysis of tetrachloroethylene, mechanism of, 22:23034 (IA-1128, pp 78-96)
  evaporation from n-tridecane into flowing nitrogen, gas phase fraction saturation as function of liquid phase mole fraction in, 22:37931 (UCRL-17989, pp 253-60)
  evaporation into flowing nitrogen, use of correction factors to compare with predicted, 22:37931 (UCRL-17989, pp 253-60)
  isomerization of, properties of technetium as catalyst for, 24:13811 (RLO-2017-1)
  lifetime of superheated state of, simulated bubble-chamber method for measuring, 21:5959
  moderating properties in SLEEP Reactor, 21:42821
  neutron scattering by, slow, (E/T), 21:2029
  neutron scattering cross sections at 0.009 to 0.0013 eV, (E), 22:24811
  photolysis at 1470 A of, radical yields of, 22:27396(R) (AI-AEC-12638)
  photolysis of, 23:11528 (AI-AEC-12721, pp 323-8)

- radiation effects on lifetime of superheated state of, simulated bubble-chamber method for measuring gamma, 21:5959
- radiation effects on liquid, at various temperatures, yields of free ions in x, 23:278
- radiation effects on monocrystalline and polycrystalline, ESR study of free radical formation in γ, 24:7454
- radiation effects on preferential recombination of ions in, x, 21:19648 (BMwF-FBK-66-45)
- radiation effects on, chemical reactions of carbon-11 recoil atoms produced by electron, 21:25871 (IS-T-118)
- radiation effects on, ESR study of radicals from γ and x, 22:27816
- radiation effects on, mobility of ions produced in x, 23:13773
- radioinduced electric conductivity of liquid, effects of pressure on, 24:36317
- radioinduced reactions with bromine, comparison of yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
- radiolysis at 1470 A of, radical yields of, 22:27396(R) (AI-AEC-12638)
- radiolysis of aqueous solutions of, absorption spectral studies of species from electron pulse, 25:57458(R) (COO-1116-17)
- radiolysis of liquid and solid, effects of temperature on yields of hydrogen from γ, 24:44047
- radiolysis of liquid, effects of dose on product yields from, 22:12337(R) (COO-1116-6)
- radiolysis of liquid, effects of iodine on yields from γ, 24:31357
- radiolysis of liquid, mechanisms of γ, 25:23627
- radiolysis of liquid, products and mechanisms of, 22:33439
- radiolysis of oxygenated or pure, absorption spectral studies of species from electron pulse, 25:57458(R) (COO-1116-17)
- radiolysis of solid, effects of additives and scavengers on yields from, 24:46262
- radiolysis of solid, yields and reactions in γ, 23:47541
- radiolysis of, effects of dose, temperature, olefins, and scavengers on γ, 22:33405
- radiolysis of, effects of iodine on yields in electron, 21:25871 (IS-T-118)
- radiolysis of, effects of molecular structure on free-ion yield from γ, 22:42757
- radiolysis of, effects of molecular structure on free-ion yield from γ, 23:4671
- radiolysis of, free radical yields in, 22:8126
- radiolysis of, free radical yields in, 22:42711(T) (AEC-tr-6937, pp 84-95)
- radiolysis of, mechanism of hydrogen formation in γ, 22:33437
- reactions of liquid, with isomeric-transition- or neutron-capture-activated iodine-128 and iodine-130, yields from, 23:19743 (COO-1617-14)
- reactions of recoil tritium with, 22:40130
- reactions of solid, with recoil tritium, absolute yields of products formed by, 22:27758
- reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)
- response of, in ionization chambers, relative weight and molar, 23:4808(T) (NSJ-tr-128)
- solubility in hydrofluoric acid, 24:11505 (IA-1190, pp 133-81)
- yields from γ radiolysis of bromocyclopentane in ethanol, effects of benzene or hydrochloric acid on, 24:38965
- yields in gamma radiolysis of alkene—ethylene copolymers, 21:45175
- yields in gamma radiolysis of gaseous ethanol and ethylene, 21:23943
- yields in γ radiolysis of liquid propane—rare gas mixtures, effects of oxygen on, 23:285
- yields in radiolysis of cyclopentane, effects of iodine on, 22:50998
- yields in radiolysis of gaseous cyclohexane, effects of nitric oxide on, 22:35836
- I—pentane, neutron reactions (n,γ) with iodine-127 in, yields and product distribution from, 25:54705
- I—pentane, radiation effects on, organic yields from reactions of recoil iodine-128 produced from neutron, 25:18483(R) (COO-1617-27)
- I—pentane, radiation effects on, yields of organically bound recoil iodine-128 from neutron, 25:187 (COO-1617-24)
- I—pentane, radiolysis of, distribution of iodine-131-labeled products from, 25:54705
- iodine-131—pentane, radiolysis of, yields from γ, 25:18483(R) (COO-1617-27)
- iodomethane—pentane, radiation effects on, organic yields from reactions of recoil iodine-128 produced from neutron, 25:18483(R) (COO-1617-27)
- pentane—tetrachloroethylene, radiolysis of solutions of, free radical chain reactions in γ, 23:40740
- pentane—tetrachloroethylene, radiolysis of, γ, 21:3114
- pentane—tetrachloroethylene, radiolysis of, yields from γ, 22:33437
- pentane—tridecane, heat and mass transfer at evaporation into nitrogen, relations with temperature, 21:41100 (UCRL-17527)

PENTANE, ASTATO-
- boiling point of, gas chromatographic studies on, 25:34604 (JINR-P6-5683)
- preparation and properties of, 25:112(T) (ANL-Trans-859)

PENTANE, 1-BROMO-
- radioinduced fluorination of, using fluorine-18-labeled potassium fluoride in dimethylformamide, γ, 22:27804
- radiolysis at low temperatures, EPR studies on radicals formed in γ, 23:9463
- radiolysis of glassy, polycrystalline, at 77°K, ESR spectral studies on γ, 22:2111
- radiolysis of solid, at 77°K, EPR studies on scavenging of trapped alkyl radicals by oxygen in γ, 23:38015

PENTANE, 3-BROMO-
- reactions with potassium ethoxide in ethanol, effects of deuterium on cis- and trans-2-penetene formation by, 22:27719
- reactions with potassium tert-butoxide in 2-methyl-2-butanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719

PENTANE, 1-CHLORO-
- radioinduced fluorination of, using fluorine-18-labeled potassium fluoride in dimethylformamide, γ, 22:27804

PENTANE, 3-CHLORO-
- reactions with potassium ethoxide in ethanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719
- reactions with potassium tert-butoxide in 2-methyl-2-butanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719

PENTANE, 3-(CHLOROMETHYL)-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 2-CHLORO-3-METHYL-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 3-CHLORO-3-METHYL-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 2-CHLORO-2,4,4-TRIMETHYL-
- solvolysis of deuterated and normal, secondary steric isotope effects in, 22:21070

PENTANE, 1-CYCLOPENTYL-
- yields in gamma radiolysis of liquid cyclopentane, 21:14239 (ORO-3106-17)

PENTANE, DECACHLORO-
- radioinduced production from chlorination of 1,1,1,5-tetrachloropentane, 23:47491

PENTANE, 1,5-DIFLUORO-3,3-DIMETHOXY-1,1,5,5-TETRANITRO-
- analysis of, gas chromatographic, 23:28673(R) (UCRL-50006-69)
- determination in explosives, 24:24980 (UCRL-7873(Pt.3))
- determination in plastic-bonded explosives, complexometric, 24:11404 (UCRL-7873(Pt.3))

PENTANE, 2,4-DIMETHYL-
- effects on yields from reactions of neutron-capture-activated iodine-128 with polycrystalline cyclohexane at 77°K, 23:19743 (COO-1617-14)
- radioinduced reactions with bromine, comparison of yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
- radiolysis of, relation between electric conductivity and yields in γ, 21:23922
- radiolysis of, yields of alkyl radicals from electron, 21:5949
- reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)

PENTANE, 1,5-DIPHENYL-
- radiation effects on intramolecular energy transfer in, γ, 23:19785

PENTANE, DODECAFLUORO-
- radiolysis in hexane, yields from γ, 23:17495
- radiolysis of, yields in γ, 22:18836

PENTANE, 3-ETHYL-
- radiation effects on glasses of, at 77°K, properties of trapped electrons produced by γ, 24:27153
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 3-ETHYL-2-METHYL-
- radiation effects on ion pair formation in liquid, electrochemical studies on γ, 21:28012
- radiation effects on ion pair production in, method for measuring mean energy in γ, 22:16601

PENTANE, 1-IODO-
- radiation effects on glasses of, at 77°K, kinetics of decay of alkyl radicals produced by γ, 25:18461
- radioinduced fluorination of, using fluorine-18-labeled potassium fluoride in dimethylformamide, γ, 22:27804
- radiolysis in 3-methylpentane at -196°C, spectral studies on ionic processes in γ, 23:9476
- radiolysis in 3-methylpentane glass at 77°K, γ, 21:15949
- radiolysis of glassy, polycrystalline, at 77°K, ESR spectral studies on γ, 22:2111

PENTANE, 3-IODO-
- reactions with potassium ethoxide in ethanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719
- reactions with potassium tert-butoxide in 2-methyl-2-butanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719

PENTANE, 3-(IODOMETHYL)-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 1-IODO-3-METHYL-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 2-IODO-3-METHYL-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 3-IODO-3-METHYL-
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377

PENTANE, 2-METHYL-
- determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
- effects on dimer yields in radiolysis of hexadecane, 21:8364
- effects on yields from reactions of neutron-capture-activated iodine-128 with polycrystalline cyclohexane at 77°K, 23:19743 (COO-1617-14)
- radiation effects on glasses of, at 77°K, role of cracks in annealing of gamma, 21:8361
- radioinduced luminescence at 77°K, γ, 24:2238
- radioinduced reactions with bromine, yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
- radiolysis of carbon tetrachloride in glassy, optical absorption spectra of intermediates from γ, 23:37937
- radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377
- radiolysis of solid, at 77°K, EPR studies on scavenging of trapped alkyl radicals by oxygen in γ, 23:38015
- reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)
- reactions with isomeric-transition- and neutron-capture-activated iodine-128 and iodine-130, effects of variables on yields from, 23:19743 (COO-1617-14)
- response of, in ionization chambers, relative weight and molar, 23:4808(T) (NSJ-tr-128)
- yields from γ radiolysis of gaseous ethylene in presence of 2-methylpropene, 25:57474
- yields in γ radiolysis of liquid propane—rare gas mixtures, effects of oxygen on, 23:285

PENTANE, 3-METHYL-
- determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
- effects of glassy solutions of, on γ-radioinduced polymerization of 2-methylpropene, 24:11555 (JAERI-5022, pp 18-26)
- effects of glassy, on mechanism of intermediates produced by γ radiolysis of α-methylstyrene, ESR and optical studies on, 23:7570
- effects on γ-induced polymerization of isobutene at -196°C, 21:34304
- effects on γ-radiolysis and photolysis of tert-butyl peroxide, ESR study of, 22:16626
- effects on γ-radiolysis of alkyl iodides, bromobutane, and chlorobutane at 77°K, 21:15949
- effects on ionic processes in γ radiolysis of alkyl iodides, spectral studies on, 23:9476
- effects on neutron capture by iodine and iodine chlorides at 77°K, aggregation, clustering, and isotopic yields from, 23:40747
- effects on radioinduced polymerization of 2-methylpropene, effects of anhydrous conditions on, 22:8096(T) (AEC-tr-6908, pp 56-63)
- effects on radioinduced polymerization of 2-methylpropene, effects on anhydrous conditions on, 21:19693
- effects on radioinduced polymerization of tetrafluoroethylene, 24:33720
- effects on yields from γ radiolysis of ethane, 25:23615
- effects on yields from reactions of isomeric-transition-activated bromine-82 and neutron-capture-activated bromine-80 or bromine-82 with hexane at 77°K, 23:19743 (COO-1617-14)
- electron thermal decay in glasses of, trapped, 23:47465(R) (ORO-2968-49)
- photoinduced production of electrons in glasses of, ESR study of, 23:295
- photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
- photolysis of N,N,N',N'-tetramethyl-p-phenylenediamine in, effects of alkali halides on phosphorescence and radical yields from, 24:9397
- radiation effects on acyl chlorides in glasses of, ESR and optical studies of γ, 23:263
- radiation effects on alkanes in matrices of, positive charge migration in γ, 23:300
- radiation effects on electric conductivity of glassy, γ, 21:33526
- radiation effects on electric conductivity of solid, at -196°C, γ, 25:2221
- radiation effects on fluorescence and phosphorescence of, at 77°K, γ, 25:134
- radiation effects on glasses of, at 77°K, properties of trapped electrons produced by γ, 24:27153
- radiation effects on glasses of, at 77°K, role of cracks in annealing of γ, 21:8361
- radiation effects on glasses of, containing vinyl ethers, ESR study of ionic processes in γ, 23:35209
- radiation effects on glasses of, effects of carbon dioxide ions on ESR signal from γ, 21:36013
- radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
- radiation effects on glasses of, effects of triethylamine on yields and stability of trapped electrons from γ, 23:47539
- radiation effects on glasses of, electric conductivity, ESR, and spectrophotometric studies on, 24:31400
- radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
- radiation effects on glasses of, ESR studies of trapped electrons and free radicals in γ, 22:27825
- radiation effects on glasses of, reactions and identification of free radicals produced by γ and uv, 25:54648
- radiation effects on liquid, at 23°C, yields of free ions in x, 23:278
- radiation effects on prompt luminescence of, at 77°K, x, 23:322
- radiation effects on trapped electrons in glass of, at 77°K, ESR studies of γ, 22:16617
- radiation effects on viscosity-dependent ion recombination luminescence in, at 77°K, γ, 23:7568
- radiation effects on, at 77°K, thermal decay of trapped electrons produced by γ, 23:35199
- radiation effects on, containing cadmium, lithium, magnesium, potassium, or sodium at 77°K, comparative ESR studies on paramagnetic species produced from γ or uv, 25:13025
- radiation effects on, ESR spectral studies on γ, 21:19699
- radiation effects on, ESR spectral studies on γ, 22:8102(T) (AEC-tr-6908, pp 130-8)
- radiation effects on, ESR studies of trapped electrons from γ and photon, 21:36047
- radiation effects on, ESR study of radicals from γ and x, 22:27816
- radioinduced electric conductivity in glasses of, effects of temperature on γ, 23:47540

radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
radioinduced luminescence at 77°K, γ, 24:2238
radioinduced luminescence of glasses of, containing olefins, γ, 25:57463
radioinduced polymerization of, with 2-methylpropene at 77°K, ESR spectral studies on γ, 22:8105(T) (AEC-tr-6908, pp 154-6)
radioinduced polymerization of, with 2-methylpropene at 77°K, ESR spectral studies on γ, 21:19702
radioinduced positive holes in glasses of, ESR spectra of gamma, 24:37536
radioinduced production of electrons in glasses of, ESR study of γ, 23:295
radioinduced reactions with bromine, yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
radioinduced thermoluminescence spectra of glasses of, studies of 77°K gamma, 25:52931
radioinduced trapped electrons in glasses of, at 77°K, ESR and optical studies on γ, 22:30627
radioinduced trapped electrons in glasses of, containing N,N,N',N'-tetramethyl-p-phenylenediamine, ESR and optical studies on uv, 22:30627
radiolysis at -196°C, effects of chloromethanes and electron scavengers on hydrogen yields from γ, 25:15686
radiolysis at 20 and -196°C, scavengeable electron yields from γ, 25:10652
radiolysis at 77°K, effects of deuterium on decay of radicals produced by γ, 23:6188
radiolysis at 77°K, ESR study of alkyl radicals from γ, 23:2345
radiolysis of 2-bromopropane or 2-bromopropane—toluene mixture in glassy absorption spectra of products from γ, 23:35246
radiolysis of benzene in glasses of, at 77°K, ion species in γ, 24:22705
radiolysis of carbon tetrachloride in glassy, optical absorption spectra of intermediates from γ, 23:37937
radiolysis of gaseous, isomerization of butyl ions in γ, 25:2290
radiolysis of glasses of, at -196°C, spectral studies on γ and uv, 23:24236
radiolysis of glasses of, containing bromo-, chloro-, and iodobenzene, ESR and optical studies on reaction intermediates produced from γ, 23:15901
radiolysis of glasses of, effects of alkyl halide and photobleaching on free radical production in γ, 22:27756
radiolysis of glasses of, ESR studies on γ, 25:21058
radiolysis of glasses of, trapping of electrons in electron pulse, 24:38971
radiolysis of glassy, ESR spectral studies on free radicals produced from γ, 23:31377
radiolysis of liquid and solid, effects of temperature on yields of hydrogen from γ, 24:44047
radiolysis of liquid, effects of nitrous oxide on hydrogen and nitrogen yields in γ, 22:18824
radiolysis of liquid, use of dodecafluorocyclohexane as electron scavenger to determine free ion yields from γ, 24:41335
radiolysis of naphthalene in glass of, at 77°K, mechanism of yields of triplet states in electron pulse, 23:7574
radiolysis of normal and deuterated solid, ESR study of hydrogen atom production in γ, 23:37988
radiolysis of solid, at -196°C, spectral studies on ionic processes in γ, 22:30608
radiolysis of solid, at 77°K, EPR studies on scavenging of trapped alkyl radicals by oxygen in γ, 23:38015
radiolysis of various alkanes in, at 77°K, 24:20813
radiolysis of, effects of carbon tetrachloride, deuterium, and methanol on γ, 21:8365
radiolysis of, effects of dodecafluorocyclohexane on yields from electron pulse, 24:16545(R) (AECL-3477)
radiolysis of, ESR spectra of trapped electrons in γ, 21:8353
radiolysis of, relation between electric conductivity and yields in γ, 21:23922
reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)
reactions with isomeric-transition- and neutron-capture-activated iodine-128 and iodine-130, effects of variables on yields from, 23:19743 (COO-1617-14)
reactions with recoil iodine-128, 24:11619
yields from γ radiolysis of gaseous ethylene in presence of 2-methylpropene, 25:57474
1-heptene—3-methylpentane, radiolysis of, reversible photoreactions of free radicals of allyl type from γ, 25:4125
1-hexene—3-methylpentane, radiolysis of, reversible photoreactions of free radicals of allyl type from γ, 25:4125
2,3-dimethyl-2-butene—3-methylpentane, radiation effects on, effects of carbon dioxide on ESR spectra from γ, 23:13794
2-methylbutane—3-methylpentane, radioinduced trapped electrons in glasses of, containing N,N,N',N'-tetramethyl-p-phenylenediamine, ESR and optical studies on uv, 22:30627
3-methylpentane—1-propanol, radiation effects on glasses of, at 77°K, properties of trapped electrons produced by γ, 24:27153
3-methylpentane—2-methylpropane, radiolysis of crystalline and glassy, ESR spectral studies on free radicals trapped by γ, 23:40763
3-methylpentane—2-methylpropane, radiolysis of solid, at 77°K, effects of phase on γ, 25:170
3-methylpentane—2-methylpropene, radioinduced radical conversions in, ESR spectral studies on effects of low temperature and uv irradiation on, 24:7448
3-methylpentane—2-pentene, radiolysis of, reversible photoreactions of free radicals of allyl type from γ, 25:4125
3-methylpentane—2-propanol, radiation effects on glassy, electron spectral studies on, 24:240
3-methylpentane—α-methylstyrene, radiolysis of glasses of, at -196°C, spectral studies on γ and uv, 23:24236
3-methylpentane—N,N,N',N'-tetramethyl-p-phenylenediamine, photolysis at -196°C, 23:24236
3-methylpentane—N,N,N,N-tetramethyl-p-phenylenediamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
3-methylpentane—N,N,N,N-tetramethyl-p-phenylenediamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
3-methylpentane—styrene, radiolysis of glasses of, at -196°C, spectral studies on γ and uv, 23:24236
3-methylpentane—triethylamine, radiolysis of glasses of, at -196°C, spectral studies on γ and uv, 23:24236
3-methylpentane—triethylamine, radiolysis of glasses of, ESR and optical spectra of γ, 24:2233
3-methylpentane—trimethylamine, radiation effects on glasses of, ESR studies of trapped electrons from photon and γ, 21:36047
3-methylpentane—trimethylamine, radiation effects on, ESR spectral studies on trapped electrons in γ, 21:17666
carbon tetrachloride—3-methylpentane, radiolysis of glasses of, at 20 and 70°K, reactions of unstable species in γ, 22:117
ethanol—3-methylpentane, radiolysis of, ion—molecule reactions in γ, 21:42969
I—3-methylpentane, radiolysis of, yields from x, 24:243
I—iodomethane—pentane, radiolysis of gaseous, mechanisms of gamma, 21:24043
isobutyl vinyl ether—3-methylpentane, radiolysis of glasses of, ESR spectral studies on free radicals and trapped electrons from γ, 24:4338
3-methylpentane—tetramethyl-p-phenylenediamine, photoionization effects on electric conductivity of, 21:33526
methylpentane—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808

PENTANE, NITRO-
radiolysis of solid, in ethanol, ESR spectral studies on radical formation in γ, 21:32206

PENTANE, 1-PHENYL-
radiolysis of, yields of hydrogen from γ, 22:25393

PENTANE, 1,1,1,5-TETRACHLORO-
preparation by gamma-induced telomerization of ethylene, 21:8349
radioinduced chlorination of, γ, 21:23982
radioinduced chlorination of, production of decachloropentane from, 23:47491

PENTANE, 2,2,3-TRIMETHYL-
radiation effects on aqueous solutions of, yields in γ, 23:247

PENTANE, 2,2,4-TRIMETHYL-
analysis for hydrogen by neutron slowing-down method, 22:4005
effects on γ-radioinduced crosslinking of cis-polybutadiene, 24:227
effects on pulsed-electron radiolysis of N,N,N',N'-tetramethyl-p-phenylenediamine, 23:2329
effects on solvent properties of dioctyl phosphate for europium and terbium, 22:6400
effects on yields from reactions of isomeric-transition-activated bromine-82 and neutron-capture-activated bromine-80 or bromine-82 with hexane at 77°K, 23:19743 (COO-1617-14)
effects on yields from reactions of neutron-capture-activated iodine-128 with polycrystalline cyclohexane at 77°K, 23:19743 (COO-1617-14)
effects on yields of methyl radicals from radiolysis of bromomethane, 24:22717
electron transport up to 2 MeV in, mathematical simulation of, 24:44966 (EUR-4452, pp 401-35)
photolysis of, 23:11528 (AI-AEC-12721, pp 323-8)
photolysis of, reactions of nitrous oxide with excited molecules from, 22:16620
photolysis of, yields of radicals in uv, 21:7885(R) (NAA-SR-12175)
radiation effects on aqueous solutions of, yields in γ, 23:247
radiation effects on ion pair formation in liquid, electrochemical studies on γ, 21:28012
radiation effects on ion pair production in, method for measuring mean energy in γ, 22:16601
radiation effects on ionization of, γ, 25:48520
radiation effects on liquid, at 23°C, yields of free ions in x, 23:278
radiation effects on preferential recombination of ions in, γ, 21:19648 (BMwF-FBK-66-45)
radioinduced oxidation of, effects of dose and temperature on x, 21:109
radioinduced oxidation of, effects of dose rate and temperature on, 21:14245
radioinduced oxidation of, effects of temperature on composition of products from, 25:13040
radioinduced oxidation of, effects of water on, 22:25382
radioinduced oxidation of, formation and transformation of peroxide compounds during γ, 21:5946
radioinduced oxidation of, formation of peroxide compounds from x, 22:33394
radioinduced reactions with bromine, comparison of yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
radiolysis of, 22:21106
radiolysis of liquid and solid, effects of temperature on yields of hydrogen from γ, 24:44047
radiolysis of liquid, effects of ion scavengers on fragmentation of excited ions in γ, 22:10274
radiolysis of liquid, use of dodecafluorocyclohexane as electron scavenger to determine free ion yields from γ, 24:41335
radiolysis of liquid, yields of thermal hydrogen atoms from γ, 24:46279
radiolysis of, effects of dodecafluorocyclohexane on yields from electron pulse, 24:16545(R) (AECL-3477)
radiolysis of, effects of electron scavengers on γ, 24:13877(R) (RRL-2310-287)
radiolysis of, effects of nitrous oxide or styrene on hydrogen and methane yields from γ, 25:6367
radiolysis of, effects of oxygen and temperature on products from γ, 25:18471
radiolysis of, effects of oxygen and temperature on yields from γ, 25:174
radiolysis of, effects of postirradiative additions of iodine on yields in γ, 22:99
radiolysis of, fragmentation of excited ions in, 23:19799
radiolysis of, reactions of nitrous oxide with excited molecules from, 22:16620
radiolysis of, yields of alkyl radicals from electron, 21:5949
radiolysis of, yields of thermal hydrogen atoms from, 24:13877(R) (RRL-2310-287)
reactions of photoexcited, with nitrous oxide, 23:11528 (AI-AEC-12721, pp 323-8)
reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)
solvent properties for mercury, thermodynamics of, 21:19587 (IS-T-119)
bromomethane—2,2,4-trimethylpentane, radiolysis of, chemical method for determining free-ion yields in γ, 22:51006
chlorobenzene—ethanol—thymolsulfonphthalein—2,2,4-trimethylpentane, radiolysis of, γ, 21:23990
chlorotriphenylmethane—2,2,4-trimethylpentane, radiolysis of, yields of triphenylmethylcarbonium ion from electron pulse, 24:236
cyclohexane—2,2,4-trimethylpentane, radiolysis of, effects of hexanethiol and naphthalene on hydrogen yields from γ, 22:16586
cyclopentane—2,2,4-trimethylpentane, radiolysis of, 22:21106
cyclopentane—2,2,4-trimethylpentane, radiolysis of, energy transfer mechanism for yields in γ, 21:30476
decahydronaphthalene—2,2,4-trimethylpentane, radioinduced oxidation of, effects of oxygen and inhibitors on, 22:16575
hexane—2,2,4-trimethylpentane, radiolysis of, energy transfer mechanism for yields in γ, 21:30476
N_2O—2,2,4-trimethylpentane, photolysis of, reactions in, 23:47492
N_2O—2,2,4-trimethylpentane, radiolysis of, yields of N_2 from, 23:47492

PENTANE, 2,3,4-TRIMETHYL-
radiation effects on aqueous solutions of, yields in γ, 23:247
radiation effects on preferential recombination of ions in, x, 21:19648 (BMwF-FBK-66-45)
radioinduced reactions with bromine, comparison of yields in isomeric transition and (n,γ) processes in neutron, 21:19649(R) (COO-1617-6)
radiolysis of, 22:21106
radiolysis of, effects of postirradiative additions of iodine or methyl methacrylate on yields in γ, 22:99
reactions with isomeric-transition- and neutron-capture-activated bromine-82, effects of variables on yields from, 23:19743 (COO-1617-14)

PENTANE, UNDECAFLUORO-2-(TRIFLUOROMETHYL)-
radiolysis of, yields in γ, 22:18836

PENTANE, UNDECAFLUORO-3-(TRIFLUOROMETHYL)-
radiolysis of, yields in γ, 22:18836

1,5-PENTANEDIOL
radiolysis of, G-values of products from γ, 23:229
reactions with uranium pentaethoxide, 25:6298

2,4-PENTANEDIOL, 2-METHYL-
reactions with uranium pentaethoxide, 25:6298

2,3-PENTANEDIONE
complexes with metals, effects as collector in fission product formation in neutron-irradiated uranium dioxide, 24:2266(R) (HMI-B-84)
dioxime, complexes of deuterated and normal, with nickel, infrared spectra of hydrogen bonding in, 21:40772 (IS-1600, Paper 3)

2,4-PENTANEDIONE
carbon-14 exchange between tris(acetylacetonato) aluminum and, 22:40098
chelates with rare earths, infrared spectra and vibration modes of, 25:52606 (CONF-711001-(Vol.1), pp 64-72)
cleavage of, effects of deuterium on alkaline, 23:24209
complexes of, with beryllium, precipitation of beryllium by decomposition of, 21:15836(R) (UCID-15079)
complexes of, with chromium(III), oxygen-18 exchange and aquation of, 21:10354
complexes of, with cobalt, radiation effects on, annealing of neutron, 21:14274
complexes of, with protactinium, formation of, 21:8312
complexes of, with scandium, extraction and stability constants of aqueous solutions of, 21:5868
complexes with aluminum or beryllium, preparation of, 22:45039
complexes with aluminum, beryllium, magnesium, zinc, and zirconium, radiation effects on, ESR spectral studies on, 24:11577 (JAERI-5022, pp 175-9)
complexes with aluminum, carbon-14 exchange between 2,4-pentanedione and, 22:40098
complexes with aluminum, chromium, and manganese, cobalt-57 exchange in solid, doped, 24:13892
complexes with aluminum, chromium, cobalt, iron, manganese, and thorium, electric polarization of, 24:20775
complexes with aluminum, cobalt, and iron, effects on γ-induced luminescence of benzene solutions of p-terphenyl, 23:242
complexes with americium and rare earths, preparation of, 23:11607(T) (UCRL-Trans-10317)
complexes with americium and rare earths, preparation of, 22:25459 (KFK-672)
complexes with ammonia and uranium, spectra of, PMR, 24:20777
complexes with aromatic sulfoxides and uranyl ions, spectra of, ir and NMR, 23:35122

complexes with beryllium, radiolysis of single crystals of, ESR spectral studies on γ, 25:10623 (JAERI-5026, pp 157-60)
complexes with chromium and cobalt, chromium-51 exchange in solid, doped, 24:13892
complexes with chromium, effects of thermal annealing on exchange reactions of chromium-51 recoil ions in methanol solutions of neutron-irradiated, 22:30597
complexes with chromium, polarization of electron transitions in, spectral studies on, 22:37712(R) (COO-773-15)
complexes with chromium, radiation effects on, distribution of chromium-51 recoils in yields from fast-neutron, γ, and thermal-neutron, 23:13787
complexes with chromium, radiation effects on, distribution and isothermal annealing of recoil chromium-51 from neutron, 23:21750
complexes with chromium, radiation effects on, reactions of chromium-51 recoils from neutron, 25:46535
complexes with chromium, radiation effects on, reactions of recoil chromium-51 from neutron, 24:16578
complexes with chromium, radiation effects on, study of thermal annealing mechanisms in neutron, 25:57496
complexes with chromium, radioinduced transfer in chromium-51-doped, neutron, 25:57496
complexes with chromium, solubility of, in organic solvents, 22:12298
complexes with chromium, thermal transfer or exchange in chromium-51-doped, 25:57496
complexes with cobalt or nickel and pyridine, preparation of, for use as secondary standards, 22:45039
complexes with cobalt, cobalt-47 electron-capture decay in, stabilization of anomalous charge states of iron after, 25:13075
complexes with cobalt, radiation effects on effects of preheating on thermal annealing in neutron, 23:312
complexes with cobalt, radiation effects on liquid and frozen benzene solutions of, reactions of cobalt-60 recoil atoms produced by neutron, 24:44041
complexes with cobalt, radiation effects on, annealing of neutron, 21:3083 (AEET-256)
complexes with cobalt, radiation effects on, effects of dose and temperature on cobalt-60 and cobalt-60m retention in thermal neutron, 24:11546 (CEA-R-3786)
complexes with cobalt, radiation effects on, γ and neutron, 22:21148
complexes with cobalt, radiolysis of aqueous, benzene, cyclohexane, and tetrahydro-2-methylfuran solutions of, ion recombination in γ, 24:50406 (CONF-690916-(Vol.2), pp 205-11)
complexes with cobalt(III) in aqueous solution, radiolysis of, 24:20798
complexes with copper and indium in mixtures with other β-diketones, stability constants for, 22:37776 (BNL-50082, pp 79-92)
complexes with copper, reactions with quinoline, structure of adduct formed by, 21:34249(R) (COO-1654-1)
complexes with erbium and methanol, structure of, 25:15626(R) (ORO-2124-23)
complexes with hafnium, radiation effects on polycrystalline, study of recoils from neutron, 23:35205
complexes with halogens and quadrivalent cerium, hafnium, thorium, and zirconium, preparation of, 22:4153
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
complexes with indium-113 for use in scanning, 22:4630 (UCLA-34-P-119-16)
complexes with iridium and platinum, radiochemical separation based on extraction of, 25:31858
complexes with iron, radiation effects on Moessbauer line widths for, γ, 25:15647
complexes with lanthanides and related elements, fractional sublimation for separation studies on, 22:4097
complexes with manganese(III), Jahn—Teller effect in magnetic susceptibility and anisotropy of trigonally distorted octahedral, (T), 25:33477
complexes with metal ions, reactions with recoil atoms from neutron-irradiated uranium dioxide, 23:38005
complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
complexes with metals, reactions of fission products from neutron-irradiated uranium compounds with, 23:286
complexes with metals, reactions with recoil fission products, 25:32016
complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
complexes with neptunium, preparation and structure of, 24:38810
complexes with neptunium, properties of, 24:25063
complexes with palladium, radiation effects on, ESR study of γ, 24:38978
complexes with palladium, separation of, from fission and spallation products by solvent extraction using benzene, 22:10339
complexes with platinum, radiation effects on, isotope effects on reactions of recoils from neutron, 25:57489
complexes with plutonium, preparation and recrystallization properties of, 21:40959(R) (MLM-1399)
complexes with protactinium in perchloric acid solutions, 22:30576
complexes with protactinium, distribution and stability constants for, 25:2202
complexes with protactinium, solvent extraction studies on distribution and formation constants of, 22:6388
complexes with rare earths and α,α'-(ethylenedinitrilo)di-o-cresol, preparation of, 23:2299
complexes with rare earths, stability of, 22:14566 (ORO-2124-12)
complexes with rare earths, structure of, 22:14566 (ORO-2124-12)
complexes with thorium or zirconium, spectra of, Raman, 25:31940
complexes with uranium, structure of, NMR spectral studies on, 23:43331
complexes with uranium, structure of, x-ray diffraction studies on, 24:38824
complexes with uranyl ions, polarographic studies in nonaqueous solvents of, 23:21724
complexes with uranyl ions, radiolysis of, physicochemical parameters of neutron, 25:31969 (NP-18785)
complexes with uranyl ions, reactions with 2,4-pentanedione, and tributyl, tricyclohexyl, and triphenyl phosphates, products in, 22:27894
complexes with uranyl ions, solubility of, in organic solvents, 22:12298
complexes with uranyl ions, spectra of, ir and PMR, 24:20777
complexes with uranyl ions, structure of crystals of, 24:2181
complexes with vanadium, effects on radioinduced polymerization of butadiene, 22:33387
complexes with various metals, preparation of, for use as secondary standards, 22:45039
complexes with zinc, effects on carbon-13 exchange between amine carbamates and carbon dioxide, catalytic, 24:4348 (CU-755-6, Sect.2)
complexes, use in precipitation of beryllium, magnesium, and uranium from basic solution, 22:158
distribution between organic solvents and aqueous sodium perchlorate, spectrophotometric studies on, 24:16642
effects of, on ionization of uranyl halide complexes with dimethylformamide, 21:3058
effects on quenching of fluorescence of cerous ion in aqueous solution, 23:24155
effects on separation of rare earths from aqueous solutions by solvent extraction using TTA, synergistic, 25:54731
effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
hydrogen chemical shift in enol form of, effects of deuterium on bridge, 23:6117
keto—enol tautomeric equilibrium of, effects of deuterium on, 23:26235
oxygen-18 exchange between, and water, acid-catalyzed, 21:10354
preparation and properties of adducts of Group IV tetrahalides with, 23:26235
preparation of chromium-51- or iron-59-labeled chelates of, 22:10782(R) (UCLA-34-P-119-10)
reactions of, with uranium pentaethoxide, properties of compounds formed by, 21:17620
reactions with 2,4-pentanedione complexes of uranyl ions, products in, 22:27894
reactions with cobalt-58 recoil atoms, thermal annealing in, 23:24238
reactions with uranyl nitrate in presence of ammonia, products of, 25:46472
solvent properties for actinides, 22:25459 (KFK-672)
solvent properties for americium, copper, neptunium, protactinium, and zinc, 24:39006
solvent properties for chromium, 23:9493
solvent properties for copper, gallium, and indium in halogen acid solutions, 23:9323
solvent properties for rhenium, 23:17548
solvent properties for scandium, synergestic effects of TBP and TOPO on, 22:51068
solvent properties for scandium, synergistic effect of TOPO on, 23:26350
solvent properties for trivalent lanthanides, 23:11606 (ORO-2124-19)
solvent properties for uranium, effects of TBP on, 21:32261
solvent properties for various metal ions, relation between composition of complex and optimal acidity of its extraction, 21:30522
solvent properties in separation of actinium, americium, californium, and curium from aqueous solutions, 23:11607(T) (UCRL-Trans-10317)
solvent properties of, for polonium, 21:4603
use of, for precipitation of beryllium as hydroxide, 21:15835(R) (UCID-15066)
yields from radiolysis of aqueous acetone mixtures, 23:4696
yields in γ radiolysis of frozen acetone, 22:33425
complexes with platinum bromides, reactions with bivalent metal salts, 21:3044
complexes with platinum chlorides, reactions with bivalent metal salts, 21:3044
2,4-pentanedione—phosphoric acid ester, distribution of uranyl ions in, effects of benzene, chloroform, and cyclohexane and inorganic anions on, 22:27894
2,4-pentanedione—phosphoric acid ester, solvent properties for uranyl ions, 22:27894
benzene—2,4-pentanedione, solvent properties for niobium, 24:33772
benzene—Cu—$NaClO_4$—2,4-pentanedione, complex formation in solvent extraction systems of, use of AKUFVE method for distribution measurements on, 24:14038
butanol—2,4-pentanedione, solvent properties for niobium, 24:33772
chloroform—2,4-pentanedione, solvent properties for niobium, 24:33772
pentanedione—trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for rare earths, 23:11605 (ORO-2124-18)
2,4-PENTANEDIONE, 3-(4-ANTIPYRINYLAZO)-
complexes with metals, 24:11439
properties as analytical reagent in photometric determination of cobalt and scandium, 24:11439
2,4-PENTANEDIONE, 3,3-DIMETHYL-
preparation and properties of adducts of Group IV tetrahalides with, 23:26235
2,4-PENTANEDIONE, 1,5-DIPHENYL-
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
2,4-PENTANEDIONE, 1,1,1,5,5,5-HEXAFLUORO-
complexes with aluminum, chromium, and iron, ionization potentials for, 21:35913(R) (COO-1087-104)
complexes with americium-243 or lanthanum and cesium, preparation and properties of, 24:48065 (ORNL-4581, pp 28-61)
complexes with cesium and actinides or rare earths, preparation, properties, and structure of, 23:1880 (ORNL-4306, pp 22-45)
complexes with cesium and americium or europium, crystal and molecular structure of, 23:1880 (ORNL-4306, pp 22-45)
complexes with cesium and americium or lanthanides, preparation and properties of, 24:41261
complexes with cobalt, separation of, from ruthenium hexafluoroacetylacetonates, gas chromatographic, 22:51075
complexes with curium, intermolecular energy transfer in, spectral studies on, for use as laser, 23:1880 (ORNL-4306, pp 22-45)
complexes with einsteinium(III), energy transfer and luminescence studies on, 25:6334
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
complexes with lanthanides and related elements, fractional sublimation for separation studies on, 22:4097
complexes with lanthanum, structure of, 25:15626(R) (ORO-2124-23)
complexes with lithium and N,N,N',N'-tetramethylethylenediamine, ir spectra and structure of lithium-6- and -7-labeled, 23:9413
complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
complexes with rare earths and TBP, separation of, by gas chromatography, 23:2387
complexes with rare earths, gas chromatographic separation of, 24:5598
complexes with rare earths, preparation and properties of, 24:1823 (ORNL-4437, pp 20-39)
complexes with ruthenium, separation of, from cobalt hexafluoroacetylacetonates, gas chromatographic, 22:51075
effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
properties for separation of metallic mixtures by solvent extraction and gas chromatography, 21:14288 (TID-23663)
solvent properties for actinides, 22:25459 (KFK-672)
solvent properties for rare earths in aqueous acetate—chloride solutions, 24:36350 (IS-T-353)
solvent properties in separation of actinium, americium, californium, and curium from aqueous solutions, 23:11607(T) (UCRL-Trans-10317)
solvent properties of, for aluminum, beryllium, hafnium, and zirconium in benzene—water solutions, 21:14288 (TID-23663)
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—TBP, solvent properties for rare earths and other metals in aqueous solutions, synergic effects in, 24:36350 (IS-T-353)
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—tris(2,2,2-trifluoroethyl) phosphate, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—tris(3,3,3,2,2-pentafluoropropyl) phosphate, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)
2,4-PENTANEDIONE, 3-METHYL-
hydrogen chemical shift in enol form of, effects of deuterium on bridge, 23:6117
preparation and properties of adducts of Group IV tetrahalides with, 23:26235
2,4-PENTANEDIONE, 1-PHENYL-
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
2,4-PENTANEDIONE, 1,1,1-TRIFLUORO-
complexes with halogens and quadrivalent cerium, hafnium, thorium, and zirconium, preparation of, 22:4153
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
complexes with lanthanides and related elements, fractional sublimation for separation studies on, 22:4097
complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
complexes with zirconium, spectra of, Raman, 25:31940
properties for separation of metallic mixtures by solvent extraction and gas chromatography, 21:14288 (TID-23663)
solvent properties for actinides, 22:25459 (KFK-672)
solvent properties for aluminum, beryllium, hafnium, and zirconium in benzene—water solutions, 21:14288 (TID-23663)
solvent properties for rare earths and other metals in aqueous solutions, 24:36350 (IS-T-353)
solvent properties for scandium, synergistic effect of TOPO on, 23:26350
solvent properties in separation of actinium, americium, californium, and curium from aqueous solutions, 23:11607(T) (UCRL-Trans-10317)
TBP—1,1,1-trifluoro-2,4-pentanedione, solvent properties for rare earths and other metals in aqueous solutions, synergic effects in, 24:36350 (IS-T-353)
2,4-PENTANEDIONE, 1,1,1-TRIFLUORO-5-PHENYL-
complexes with holmium, integrated ion-current method for mass spectrometric studies on, 23:6116
complexes with rare earths, preparation, spectra, thermal stability, and volatility of, 23:35068
Pentanenitrile
see Valeronitrile
PENTANENITRILE, 4-METHYL-
mass spectra of, effects of deuterium on, 23:147
1-PENTANETHIOL
radiolysis at 77°K, EPR studies of γ, 22:37799

  - radiolysis of, yields of free radicals from γ, 23:31369
- 1-PENTANETHIOL, 2-AMINO-
  - radioprotective effects of, on Escherichia coli, function and structure studies on γ, 25:35160
  - radioprotective properties of, 21:22498
- 1-PENTANETHIOL, 5-AMINO-
  - distribution in mice following intraperitoneal injection, sulfur-35 study of, 21:36513
- 2-PENTANETHIOL, 4-AMINO-2-METHYL-
  - hydrochloride, radiolysis of aqueous solutions of,, 22:6357
- Pentanoic Acid
  - see Valeric Acid
- 1-PENTANOL
  - dehydration of, effects of catalyst radioactivity on, 24:37541
  - effects of, on solvent extraction of protactinium using TTA in benzene, 21:10425
  - effects on electric conductivity of uranyl chlorides, effects of ligands on association-dissociation equilibrium in, 23:35062
  - effects on mechanism of formation of phosphorus-32-labeled alkyl phosphates in neutron irradiated carbon tetrachloride, 22:30596
  - effects on solvent properties of 1,3-diphenyl-1,3-propanedione—trioctylphosphine oxide for lithium and sodium in aqueous solutions, 21:45210 (ORNL-4164, pp 24-34)
  - effects on solvent properties of 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione for protactinium in perchloric acid, 21:19631
  - effects on yields in gamma radioinduced polymerization of ethylene at 30°C, 22:45130
  - effects on yields in gamma-radioinduced polymerization of ethylene, 22:2105
  - moderating properties in SLEEP Reactor, 21:42821
  - neutron scattering in, angular and energy distributions for slow, (E), 23:5795
  - radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
  - radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  - radiolysis of glasses of, formation of trapped electrons from γ, 21:36009
  - radiolysis of glassy, effects of optical and thermal bleaching on hydrogen yields from γ, 24:29345
  - radiolysis of glassy, spectrophotometric studies on electrons trapped by γ, 24:31416
  - solvent properties for molybdenum, rhenium, and tungsten in hydrochloric acid—tartaric acid solutions, 22:4246
  - solvent properties for ruthenium in aqueous hydrobromic and hydrochloric acid solutions, 23:47616
  - solvent properties for selenium complexes with 2-mercapto-4-phenyl-Δ^2-1,3,4-thiadiazoline-5-thione, 23:33259
  - yields in gamma radiolysis of gaseous ethanol and ethylene, 21:23943
  - HCl—1-pentanol, effects on chromatographic behavior of inorganic ions, 22:16675
- 2-PENTANOL
  - neutron scattering cross sections at 0.009 to 0.0013 eV, (E), 22:24811
  - radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  - radioinduced oxidation of, effects of dose rate and temperature on, 21:14245
  - solvent properties for protactinium, 22:12414
- 3-PENTANOL
  - vapor pressure of, effects of deuterium on, 22:42665
  - Na_2O_2—3-pentanol, radiation effects on, ESR study on O_2^- radicals from γ, 23:17491
- 3-PENTANOL, 2,4-DIMETHYL-
  - solvent properties for neptunium(IV) in aqueous nitrate solutions, 24:41413
- 3-PENTANOL, 3-METHYL-
  - yields in γ radiolysis of gaseous ethanol and ethylene, 21:23943
- 2-PENTANONE
  - deuterium exchange between dioxane—heavy water solutions and, relative rates of base-catalyzed, 22:45050
  - formation of, by reactions of 3-pentanone on solid phosphoric acid catalyst, carbon-14 tracer study on mechanism of, 21:14184(R) (ORO-3234-4)
  - radiolysis of, yields from electron pulse and γ, 23:28895
  - reactions of, on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
  - solvent properties for hexavalent uranium, 24:16633
  - solvent properties for tantalum, 23:48370
  - use with hydrochloric acid—hydrofluoric acid mixture for chromatographic separation of ions, 22:30570
- 3-PENTANONE
  - deuterium exchange reactions between water-d_2 and, proton NMR studies on acid- and base-catalyzed, 21:14212
  - effects on gamma radioinduced polymerization of 2-furanacrolein, 22:18821
  - iodination of, effects of deuterium on base-catalyzed, 23:40642
  - radiolysis of, yields from electron pulse and γ, 23:28895
  - reactions of, on solid phosphoric acid, carbon-14 tracer studies on mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
  - reactions with borohydride ions, secondary kinetic deuterium isotope effects in, 22:27667
  - solvent properties for neptunium(IV) in aqueous nitrate solutions, 24:41413
- 2-PENTANONE, 4,4-DIMETHYL-
  - deuterium exchange between dioxane—heavy water solutions and, relative rates of base-catalyzed, 22:45050
- 3-PENTANONE, 2,4-DIMETHYL-
  - reactions on solid phosphoric acid, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
  - solvent properties for polonium, 24:19069
  - solvent properties for protactinium, 21:32229
- 2-PENTANONE, 4,4'-(ETHYLENEDINITRILO)DI-
  - complexes with ammonia and cobalt chloride, PMR spectral studies on deuterium—hydrogen exchange in, 23:9407
  - complexes with rare earth chlorides, nitrates, or thiocyanates, properties of, 23:11491
- 1-PENTANONE, 1-(1,2,3,3,4,4-HEXAFLUOROCYCLOBUTYL)-
  - radioinduced production of, by reactions between aldehyde and hexafluorocyclobutene, γ, 23:9473(P)
- 2-PENTANONE, 4-HYDROXY-4-METHYL-
  - yields from γ radiolysis of acetone, effects of water on, 23:19792
- 3-PENTANONE, 2-METHYL-
  - reactions on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
- 2-PENTANONE, 3-METHYL-
  - reactions on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
- 2-PENTANONE, 4-METHYL-
  - 1-oxide, solvent properties for europium in aqueous salicylic acid solutions, 24:41402
  - complexes with uranyl nitrates, infrared spectra of, 21:14199
  - deuterium exchange between dioxane—heavy water solutions and, relative rates of base-catalyzed, 22:45050
  - deuterium exchange in, acid-catalyzed, 22:27708
  - effects on chromatographic separation of bismuth, mercury, thorium, and uranium from nitrate solutions using trihexylamine nitrate, diluent, 24:46325
  - effects on extraction of europium(III)—TTA into carbon tetrachloride and chloroform, 21:32260
  - effects on separation of strontium by solvent extraction using bis[p-(1,1,3,3-tetramethyl)phenyl] phosphate, 23:49902
  - effects on separation of trace amounts of scandium from rare earths by ion exchange, 23:4721
  - effects on solvent extraction of protactinium using TTA in benzene, 21:10425
  - effects on solvent properties of 1,3-diphenyl-1,3-propanedione—trioctylphosphine oxide for lithium and sodium in aqueous solutions, 21:45210 (ORNL-4164, pp 24-34)
  - effects on solvent properties of bis(hexoxyethyl) ester of phosphoric acid for selected metallic cations, 21:22016
  - effects on solvent properties of dioctyl phosphate for europium and terbium, 22:6400
  - effects on solvent properties of monocarboxylic acids for thulium, 25:234
  - effects on sorption of iodine-131-labeled iodine and iodomethane by ion exchange materials, 24:2267 (IN-1316, pp 85-9)
  - properties of, compilation of chemical and physical, 23:15831 (HW-57386)
  - radiation chemistry of, used in gloveboxes for plutonium fabrication, 23:47466 (RFP-1376)
  - radiolysis at low temperatures, ESR studies on yields from γ, 23:45347
  - reactions on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
  - separation from dilute acetic acid using stacked-clone contactor, 21:36204 (ORNL-TM-1936)
  - separation from water-soluble compounds of niobium and tantalum by steam distillation, 25:15746(P)
  - solvent properties for alkali metals, 23:24296
  - solvent properties for americium and yttrium in chloroform, synergistic effect in, 23:2373 (KFK-766)
  - solvent properties for americium, europium, indium, lanthanum, lutetium, and scandium, effects of TTA on, 21:32242
  - solvent properties for beryllium in thiocyanate solutions, effects of amines on, 23:43389
  - solvent properties for bromo complexes of ruthenium and osmium, 24:13742
  - solvent properties for europium and thorium, 21:32241
  - solvent properties for gold, 21:4596 (ORNL-TM-1664)
  - solvent properties for hafnium and zirconium, 24:11686
  - solvent properties for iron-59 and manganese-54 in irradiated iron targets, 23:21786
  - solvent properties for metal complexes with 8-quinolinol, polarographic studies on, 22:50930
  - solvent properties for molybdenum complex with benzoin oxime, 25:10439
  - solvent properties for molybdenum, niobium, tantalum, and tungsten, 22:8190
  - solvent properties for molybdenum, rhenium, and tungsten in hydrochloric acid—tartaric acid solutions, 22:4246
  - solvent properties for osmium and ruthenium, 25:230
  - solvent properties for plutonium in nitric acid solutions of bismuth, 23:11599 (HW-83226)
  - solvent properties for polonium, 21:4603
  - solvent properties for protactinium, effects of acetone and alcohols on, 22:40198
  - solvent properties for separation of thorium and uranium from hydrochloric, nitric, perchloric, or sulfuric acid solutions, effects of lithium chloride or magnesium chloride on, 25:29195
  - solvent properties for tantalum, 22:22984
  - solvent properties for tantalum and niobium, 21:19729
  - solvent properties for technetium-99m from solutions of molybdenum-99-labeled molybdates, 24:31449
  - solvent properties for tellurium for separation from iron and steels, 24:38728
  - solvent properties for uranium in fission product solutions, 21:24059 (ANL-6994)
  - solvent properties for uranium-235 and uranium-238 in aqueous solutions, 25:21134(P)
  - solvent properties for zinc, 21:39002 (RLO-1750-22(Vol.2), Paper 1)
  - solvent properties of benzene solutions of, for protactinium in perchloric acid solutions, 24:16663
  - use of, as diluent for TBP in extraction of uranium, 21:15865
  - 4-methyl-2-pentanone—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedine, solvent properties for lawrencium, 25:2197
  - 4-methyl-2-pentanone—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for actinium and lanthanum, 23:26345
  - 4-methyl-2-pentanone—sodium diethyldithiocarbamate, solvent properties for metals in aqueous solutions, 23:9312
  - acetic acid—H_2O—4-methyl-2-pentanone, use in pulsed extraction columns, correlation of drop sizes in, 22:45142 (IS-T-259)
  - cyclohexanone—4-methyl-2-pentanone, solvent properties for thiocyanate complexes of hafnium and zirconium, 23:45379
  - H_2O—4-methyl-2-pentanone, interfacial tension of, holdup in pulsed column from, effects of acetic acid on, 21:19727(R) (RLO-1053-3)
  - H_2O—4-methyl-2-pentanone, mixing in pulsed sieve plate column, mechanism of dispersed phase, 21:19727(R) (RLO-1053-3)
  - H_2O—4-methyl-2-pentanone, properties of, compilation of chemical and physical, 23:15831 (HW-57386)
  - H_2O—4-methyl-2-pentanone, use in pulsed extraction columns, correlation of drop sizes in, 22:45142 (IS-T-259)
  - H_2O—4-methyl-2-pentanone—$UO_2(NO_3)_2$, properties of, compilation of chemical and physical, 23:15831 (HW-57386)
  - HNO_3—H_2O—4-methyl-2-pentanone, properties of, compilation of chemical and physical, 23:15831 (HW-57386)
  - HNO_3—H_2O—4-methyl-2-pentanone—$UO_2(NO_3)_2$, properties of, compilation of chemical and physical, 23:15831 (HW-57386)
- PENTANONES
  - radioinduced fragmentation of, mechanisms for, 23:13755
- PENTATHIONATES
  - decomposition of, effects of sulfur isotope in, 21:14232
- PENTATRIACONTANE
  - radiolysis of liquid and solid, crosslinking yields from, 23:19786
- 4-PENTENAL
  - yields from radiolysis of cyclopentanone, 21:24040
- 1-PENTENE
  - determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  - effects on γ-induced polymerization of carbon monoxide—ethylenimine, 21:34293
  - effects on yields from γ radiolysis of liquid cyclohexane in presence of cyclohexene, 24:31413
  - radiation effects on, chemical reactions of carbon-11 recoil atoms produced by electron, 21:25871 (IS-T-118)
  - radioinduced addition of hydrogen bromide to, mechanism of γ, 21:28015
  - radiolysis of, effects of additives on, 22:16599
  - radiolysis of, ESR study of trapped electrons and free radicals from γ, 21:25910
  - reactions with deuterium ions in heavy water, spectral studies on transfer, 21:25839
  - reactions with iodine at 25°C, kinetics of, 25:18483(R) (COO-1617-27)
  - yields from γ radiolysis of liquid cyclopentane, effects of pressure on γ, 25:10628
  - yields in pyrolysis of carbon-14- or tritium-labeled 1-hexene, gas radiochromatography studies on, 23:13799(R) (COO-890-10)
  - yields in pyrolysis of tritium-labeled hexene, 23:13799(R) (COO-890-10)
  - yields in radiolysis of cyclopentane, effects of iodine on, 22:50998
  - ethylene—1-pentene, radiolysis of copolymers of, yields in γ, 21:45175
  - I—1-pentene, neutron reactions (n,γ) with iodine-127 in, yields and product distribution from, 25:54705
  - I—1-pentene, radiation effects on, organic yields from reactions of recoil iodine-128 from neutron, 25:18483(R) (COO-1617-27)
  - I—1-pentene, radiation effects on, yields of organically bound recoil iodine-128 from neutron, 25:187 (COO-1617-24)
  - I—1-pentene, radiolysis of, distribution of iodine-131-labeled products from, 25:54705
  - iodine-131—1-pentene, radiolysis of, yields from γ, 25:18483(R) (COO-1617-27)
  - iodomethane—1-pentene, radiation effects on, organic yields from reactions of recoil iodine-128 produced from neutron, 25:18483(R) (COO-1617-27)
  - ND_3—1-pentene, reactions in, mass spectrometric studies of ion—molecule, 23:47572
- 2-PENTENE
  - determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  - effects on yields from γ radiolysis of liquid cyclohexane in presence of cyclohexene, 24:31413
  - effects on yields from radiolysis of cyclohexane, 24:5675 (NP-18061)
  - effects on yields from radiolysis of solid pentane, 24:46262
  - effects on yields of hydrogen in γ radiolysis of liquid cyclohexane, 24:29334
  - radiation effects at 77 to 125°K, electric conductivity studies on transient species produced by γ, 25:13027
  - radiation effects on isomerization in, 21:14233(R) (AD-639389)
  - radioinduced cis—trans isomerization of, in cyclohexane solutions, effects of additives on γ, 24:18988
  - radioinduced isomerization of, 22:25417
  - radioinduced isomerization of, 24:5675 (NP-18061)
  - radiolysis of solid, reversible photoreactions of free radicals of allyl type from γ, 25:4125
  - radiolysis of, ESR study of trapped electrons and free radicals from γ, 21:25910
  - reactions with iodine at 25°C, kinetics of, 25:18483(R) (COO-1617-27)

- yields from γ radiolysis of methane in presence of argon, 2-butene, or xenon, effects of nitrous oxide and sulfur hexafluoride on, 24:29344
- yields in radiolysis of cyclopentane, 22:50998
- yields of, in gamma radiolysis of liquid cyclopentane, 21:14239 (ORO-3106-17)
- 3-methylpentane—2-pentene, radiolysis of, reversible photoreactions of free radicals of allyl type from γ, 25:4125
- I—2-pentene, neutron reactions (n,γ) with iodine-127 in, yields and product distribution from, 25:54705
- I—2-pentene, radiation effects on, organic yields from reactions of recoil iodine-128 from neutron, 25:18483(R) (COO-1617-27)
- I—2-pentene, radiation effects on, yields of organically bound recoil iodine-128 from neutron, 25:187 (COO-1617-24)
- I—2-pentene, radiolysis of, distribution of iodine-131-labeled products from, 25:54705
- iodine-131—2-pentene, radiolysis of, yields from γ, 25:18483(R) (COO-1617-27)
- iodomethane—2-pentene, radiation effects on, organic yields from reactions of recoil iodine-128 produced from neutron, 25:18483(R) (COO-1617-27)
- ND_3—2-pentene, reactions in, mass spectrometric studies of ion—molecule, 23:47572

- 1-PENTENE, 1-CYCLOPENTYL-
  - yields in gamma radiolysis of liquid cyclopentane, 21:14239 (ORO-3106-17)
- 1-PENTENE, 3,3,4,4,5,5,5-HEPTAFLUORO-
  - radioinduced polymerization of, effects of pressure and temperature on γ, 25:15649
  - radioinduced polymerization with tetrafluoroethylene under pressure, properties of products from γ, 24:50429
- 1-PENTENE, 2-METHYL-
  - effects on dimer yields in radiolysis of hexadecane, 21:8364
  - radiation effects on glases of, effects of carbon dioxide ions on ESR signal from γ, 21:36013
  - radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  - radiolysis of, ESR study of trapped electrons and free radicals from γ, 21:25910
- 2-PENTENE, 2-METHYL-
  - radioinduced dimerization of, electron, 23:35216
- 1-PENTENE, 3-METHYL-
  - determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  - radiolysis of, yields in γ, 21:45175
- 2-PENTENE, 3-METHYL-
  - radioinduced dimerization of, electron, 23:35216
  - radioinduced isomerization of, 22:25417
- 1-PENTENE, 4-METHYL-
  - radioinduced polymerization of, in presence of solvents and/or zinc oxide, γ, 22:8097(T) (AEC-tr-6908, pp 64-73)
  - radioinduced polymerization of, in presence of solvents and/or zinc oxide, γ, 21:19694
  - radioinduced polymerization of, with and without 2,2'-azobis[2-methylpropionitrile], uv, 21:19694
  - radioinduced polymerization of, with and without 2,2'-azobis[2-methylpropionitrile], uv, 22:8097(T) (AEC-tr-6908, pp 64-73)
  - radioinduced polymerization of, with and without sulfur dioxide, γ, 21:15959
  - radioinduced polymerization of, with sulfur dioxide, 21:19695
  - radioinduced polymerization of, with sulfur dioxide, 22:8098(T) (AEC-tr-6908, pp 74-8)
  - radiolysis of, yields in γ, 21:45175
- 1-PENTENE, 4-METHYL-, POLYMERS
  - radiation effects on, ESR and optical studies of trapped electrons from γ, 23:33208
  - radioinduced crosslinking of, role of free radicals in, 25:21031 (NP-18719)
  - radioinduced free radical formation in, γ and uv, 22:6353
  - radiolysis of, effects of oxygen on γ, 25:21031 (NP-18719)
  - radiolysis of, ESR spectroscopy of trapped electrons following γ, 25:23625
  - radiolysis of, ESR studies on yields from γ, 25:23621
  - radiolysis of, ESR study of free radicals in electron, uv, and x, at 77°K and room temperature, 25:46524
  - radiolysis of, ESR study of free radicals in γ, 24:41318
- 1-PENTENE, 2,4,4-TRIMETHYL-
  - radioinduced oligomerization of, electron and neutron, 21:10374 (NP-16442)
  - radiolysis of, ESR study of trapped electrons and free radicals from γ, 21:25910
  - yields in γ-radiolysis of 2-methylpropene—water system, 21:14237(R) (JLI-2901-75)
- 2-PENTENE, 2,4,4-TRIMETHYL-
  - radioinduced oligomerization of, electron and neutron, 21:10374 (NP-16442)
- 3-PENTEN-2-ONE, 4-AMINO-
  - complexes with rare earths, preparation of, 22:14566 (ORO-2124-12)
- 3-PENTEN-2-ONE, 4-METHYL-
  - complexes with metals, preparation of, 21:159
  - properties as extractant in separation of thorium from monazites, 23:49926
  - solvent properties for chromium in hydrochloric acid solutions, 24:26927
  - solvent properties for radioisotopes in hydrochloric, nitric, and sulfuric acid solutions, 23:373
  - solvent properties for uranium and thorium, review of, 21:159
  - 4-methyl-3-penten-2-one—TBP, solvent properties for thorium in aqueous nitric acid solutions, 25:21113
- 2-PENTEN-4-YN-1-OL
  - fragmentation of, effects of deuterium on electron collision-induced, 22:37769
- PENTOBARBITAL SODIUM
  - effects of, in combination with cysteine and AET and bone marrow transplants against x-ray-induced injuries in monkeys, 21:6628
  - effects on calcium-45 uptake by cardiac and skeletal muscles, 23:50307
  - effects on electrical activity of olfactory cortex of rats, combined effects of x radiation on, 23:20401
  - effects on γ-radiosensitivity of electrical potential of brain in cats, 22:8630
  - effects on interresponse time distribution of monkeys, 24:38699 (UR-49-1285)
  - effects on intestinal motility in rabbits, 22:49550
  - effects on visual evoked potential in prenatally x-irradiated adult rabbits, 25:32571
  - metabolism in liver of rats, effects of acute and chronic doses of methylnaphthalenes and terphenyls on, 21:20027 (EUR-3254.e)
  - protective effects of, against effects of oxygen on γ-irradiated solutions of myosin, 22:25868
  - radiation effects on tolerance of rats to, effects of amphetamine and reserpine on x, 24:36808 (AD-702721)
  - radiation effects on toxicity of, to mice, combined γ and neutron, 23:2918 (AFRRI-SR-68-12)
  - radiation effects on, in monkeys, mixed γ and neutron, 23:33622 (AD-681709)
  - toxic effects of, in irradiated dogs, 21:8865
  - toxicity in x-irradiated rats, effects of amphetamide on, 24:48701
- Penton
  - see Oxetane, 3,3-Bis(chloromethyl)-
- PENTOSANS
  - effects of SP 54, on Agar-binding reactions in human leukemias and neoplasms, 25:16047
  - radiation effects on SP 54, effects of, on formation of stem cells in animals, x, 22:16990
- Pentosenucleic Acids
  - see Nucleic Acid, Ribo-
- PENTOSES
  - see also Lyxose
  - see also Ribose
  - see also Ribose Phosphates
  - see also Xylose
  - aldo-, oxidation of, effects of thorium and zirconium ions on, 21:5864
  - metabolism of, in dogs during acute radiation syndrome, 21:10740
  - radiolysis of frozen aqueous solutions of, epimerization reactions following γ, 24:6002
  - radioprotective effects of chloroquine-diphosphate, on guinea pig skin exposed to x, 21:24473
- PENTOXANE
  - radioinduced polymerization of solid, effects of temperature on γ, 24:11640
- Pentoxyl
  - see Uracil, 5-(Hydroxymethyl)-6-methyl-
- Pentyl Alcohol
  - see 1-Pentanol
- PENTYL DISULFIDE
  - effects as charge scavenger in γ-irradiated organic solids, 24:41339
- PENTYL ETHER
  - effects on solvent properties of 1,3-diphenyl-1,3-propanedione—trioctylphosphine oxide for lithium and sodium in aqueous solutions, 21:45210 (ORNL-4164, pp 24-34)
- PENTYL SULFIDES
  - radiolysis at 77°K, yields from γ, 24:27112
- PENTYLAMINE
  - deamination of deuterium-labeled, spectral studies on mechanism of, 24:18946
  - deamination of, effects of deuterium on intramolecular 1, 2-hydride shifts in, 24:18946
  - radiation effects on adamantane-containing, EPR spectral studies on free radicals produced from x, 25:6348
  - radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  - radiolysis in adamantane matrix, EPR spectra of free radicals from, 24:36276
- PENTYLAMINE, 2-METHYL-
  - radiolysis of glasses of, at 77°K, ESR studies on trapped electrons produced by γ, 25:31983
- PENTYLENETETRAZOLE
  - effects on electrical activity of olfactory cortex of rats, combined effects of x radiation on, 23:20401
  - effects on mice during radiation sickness, effects of Diazepam on toxic, 25:24227
  - effects on x-radiosensitivity of central nervous system of rats, mechanism of, 22:47625
  - radiation effects on action of, in central nervous system of rabbits, 25:13561
  - radioprotective effects of, on mice and rats, 22:25914
  - radioprotective effects of, on survival of mice and rats, 22:25914
- 1-PENTYNE
  - radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
- 2-PENTYNE, 4-CHLORO-4-METHYL-
  - solvolysis rates of, effects of deuterium on, 21:34281
- PEOPLE'S DEMOCRATIC REPUBLIC OF GERMANY
  - development of atomic energy in, 24:43634
  - development of power reactors in, 24:13494
  - fallout monitoring at Dresden, 21:6057
  - fallout monitoring in low-level atmosphere of, following 7th and 8th Chinese nuclear explosions, 25:2370
  - fallout monitoring in waters of, 1961 to 1968, 24:27221 (SZS-19/69)
  - fallout monitoring in, 1961 through 1965, 21:28502
  - fallout monitoring in, during 1968, 24:46592 (SZS-10/70)
  - legislation for manufacture, testing, and use of sealed radiation sources in, 23:29554 (SZS-11/67, pp 40-6)
  - licensing procedures for construction and operation of nuclear plants in, 24:21199 (SZS-9/69)
  - nuclear incidents in, liability for damages from, 24:31031 (SZS-18/69, pp 25-34)
  - nuclear power development in, review, 24:30966
  - nuclear power development in, review of, 24:24799
  - nuclear power plant construction in, legal aspects of, 24:31030 (SZS-18/69, pp 9-24)
  - nuclear power plants for, development of, 25:53924
  - radiation dose to human population of, from natural background, 25:32391(T) (AEC-tr-7216)
  - radiation dose to population in, from natural background radiation, methods for determining mean, 24:21102 (SZS-14/69)
  - radiation dose to population of, determination of, by measuring natural radiation within buildings, 24:48532
  - radiation dose to population of, natural background, 21:18050
  - radiation dosimetry of population of, 1965, 21:1746 (SZS-9/66)
  - radiation effects on personnel in nuclear installations in, in 1966, effects of age and type of installation on, 23:35760(T) (ORNL-tr-2151)
  - radiation exposure of personnel in, monitoring results for, 21:28492
  - radiation monitoring in, during 1967, environmental, 24:25127 (CONF-680664)
  - radiation monitoring of crop plants, grass, and milk in, during 1969, 25:37791 (SZS-1/71)
  - radiation monitoring of environment in, 21:28493
  - radiation monitoring of personnel in, 23:29539 (SZS-20/68)
  - radiation monitoring of professionally exposed personnel in, using film badges, 24:21187 (SZS-12/69)
  - radiation monitoring of professionally exposed personnel in, use of film badges for, 24:21186 (SZS-10/69)
  - radiation protection in, development of procedures for, 23:33730
  - radiation protection in, statutes for, 23:29553 (SZS-11/67, pp 23-39)
  - radiation protection program in, 21:20184 (SZS-13/66)
  - radiation protection programs in, 23:29552 (SZS-11/67, pp 5-22)
  - radiation protection regulations in, compilation of, 24:31029 (SZS-18/69)
  - radiation protection regulations of National Center of Radiation Protection in, 23:29551 (SZS-11/67)
  - radiation protection standards development in, 21:20212
  - radiation source development and uses in, 24:14182
  - radioactive materials control in, recommended regulations for, 25:13193 (SZS-16/70)
  - radioactive materials shipping regulations for, 22:285 (SZS-10/67)
  - radioactive waste disposal in salt formations in, feasibility study, 22:36017 (SZS-5/68)
  - radioactive waste disposal in surface waters of, environmental capacity for safe, 24:25251 (SZS-16/69)
  - radioactive waste disposal in, problems of, 24:19189
  - radioactive waste disposal in, research on treatment methods for, 22:21301
  - radioactivity of air and fallout in, measurement of long-lived, 21:30548
  - radioisotope accumulation by fishes in, 24:48468 (SZS-7/70)
  - radioisotope and labeled compound production in, review of ten year's, 23:6168
  - radioisotope contamination of plants and soils in, 24:31891 (SZS-7/69)
  - radioisotope content of foods in, from 1963 to 1968, effects of nuclear explosions on cesium-137 and strontium-90, 24:48469 (SZS-11/70)
  - radioisotope content of industrial, medical, and research personnel in, during 1965 to 1967, use of experimental whole-body counter to measure, 23:41320
  - radioisotope content of plants and soils in, effects of fallout on cesium-137 and strontium-90, 24:48471
  - radioisotope content of plants and soils of, during 1966, cesium-137, strontium-90, 23:29475 (SZS-12/68)
  - radioisotope incorporation in medical and pharmaceutical preparations in, review of, 23:38400
  - radioisotope production in, 24:16789(T) (ORNL-tr-2227)
  - reactor fuels in, production facilities for, 22:30754
  - regulations for radiation protection of personnel in nuclear industries in, 23:31808 (SZS-2/69)
  - regulations for safe transport of highly radioactive and fissile materials in, 25:13194 (SZS-19/70)
  - strontium-90 content of diet and milk in Berlin, during 1962 to 1965, 22:51648
  - strontium-90 content of milk in Potsdam area of, in 1965, 21:36602
  - strontium-90 content of milk in, during 1964, 22:505
  - strontium-90 content of plants and soil in, during 1964 to 1965, 22:12856
  - strontium-90 content of plants and soils in, from 1960 through 1963, effects of fallout from nuclear weapons tests on, 25:57986
  - strontium-90 content of selected crops and soils in, survey of, 21:41398 (SZS-5/67)
- Peppers (Capsicum)
  - see Capsicum under Angiospermidae
- Peppers (the commodity)
  - see peppers under Vegetables
- PEPSIN
  - catalytic properties of, 21:8847 (ORNL-3999, pp 140-2)
  - effects on altered molecules of γ-irradiated lysozyme, combined effects of trypsin on rate of proteolytic, 24:16995
  - effects on calcium-45 uptake by collagens in vitro, 21:43351
  - effects on γ-irradiated heat coagulated egg white proteins, 22:28306
  - effects on histidine decarboxylase from rat stomach, 21:17953(R) (NYO-2085-10)
  - radiation effects on activity of precursor to, in rat gastric mucosa, acute cobalt-60 γ, 23:6385
  - radiation effects on activity of serum, in dog and rat blood and urine, whole-body x, 25:44932
  - radiation effects on activity of, effects of oxygen on γ, 22:33860

  radiation effects on excretion of, by human children, effects of region of body irradiated on x, 22:51770
  radiation effects on recombination of unpaired electrons in, effects of temperature on γ and uv, 22:49176(T) (JPRS-43645, pp 95-7)
  radiation effects on susceptibility of egg white protein to, γ, 21:26334
  radiation effects on, at 77°K, ESR studies on free radicals produced in electron and heavy ion, 24:38923
  radiation effects on, EPR study of combined effects of oxygen and temperature on, 22:28367
  radiation effects on, thermal after-effect of γ and uv, 21:26357
  radioinduced free radicals in, effects of oxygen on yield of γ, 22:33860
  radioinduced free radicals in, EPR spectra of uv, 22:47459
  radioinduced inactivation of, analysis of molecular structure during γ, 22:28335
  radioinduced inactivation of, effects of water on electron and x, 21:24304
  radioinduced inactivation of, effects of water on x, 21:22356
  radioinduced production of free radicals in, in comparison to production by photodynamic action of proflavine, uv and x, 24:48416
  radiolysis of dry, effects of temperature on reactions and yields of free radicals from γ, 23:31368
PEPTIDES
    see also Kinins
  analysis for racemic content by isotope dilution methods, 24:16439
  detection in ninhydrin-positive materials, use of neutron activation analysis for, 21:45524
  determination in Portland 1 hemoglobin, methods for, 23:7932(R) (RLO-581-26)
  deuterium exchange in monolayers of synthetic poly-, 22:40079
  deuterium exchange in synthetic, effects of amino acid position on, 22:2072
  distribution and preparation of technetium-99-labeled synthetic poly-, in relation to use in radiodiagnosis, 23:6500
  effects of, on luminescence of serum albumin solution, 21:10752
  effects on x-radioprotective effects of RNA preparations in mice, 24:19328
  electrophoretic analysis of poly- in vertebrates, 22:12160(R) (CALT-642-3)
  exchange of hydrogens of, in heavy meromyosin, with deuterium, 21:8733
  isolation for determining luminescence in fireflies, 22:6715(R) (NYO-2514-9)
  molecular structure of, modifications in, 21:8847 (ORNL-3999, pp 140-2)
  photolysis in air, argon, carbon dioxide, and nitrogen atmospheres, sensitizing effects of cations on uv, 24:593
  polymers of, deuterium exchange between, and heavy water, 21:35981
  polymers of, radioinduced oxidation of, uv, 21:30779
  polymers, radiolysis in aqueous oxygen-saturated solutions, 25:15672
  preparation of labeled, methods for, 23:49878
  preparation of tritium-labeled, development of catalytic method for, 25:54693(P)
  production by radioinduced reaction of ethylene glycol with hydroxylamine, 22:10721
  properties and structure of monolayers of synthetic poly-, 22:40079
  radiation chemistry of, 25:6342 (UCRL-19530, pp 309-14)
  radiation effects on aliphatic di-, uv, 22:36160
  radiation effects on aqueous solutions of cyclic dodeca-, yields and mechanisms in γ, 23:47522
  radiation effects on aqueous solutions of, effects of temperature on γ, 22:8674
  radiation effects on α-glycylglycine, ESR spectra of x, 21:45541
  radiation effects on bond rupture of, in diglycine, spectral studies on gamma, 21:12448
  radiation effects on composition of, in rat hemoglobin, x, 24:14419
  radiation effects on content of, in myosin, effects of dose on γ, 24:11938
  radiation effects on distribution of poly-, in central nervous system and small intestines of rats, x, 22:36201
  radiation effects on formation of, from amino acids, uv, 23:20093
  radiation effects on formation of, γ, 21:8700
  radiation effects on function of polyuridylic acid during synthesis of, tracer study of uv, 21:45533
  radiation effects on glycine-containing di-, chromatographic analysis of uv, 22:51425
  radiation effects on molecular structure of, effects of physical state on γ, 21:28408
  radiation effects on recombination of unpaired electrons in, γ and uv, 22:33747
  radiation effects on solutions of di-, mechanism of γ, 21:26347
  radiation effects on, chemical analysis of γ, 22:45417
  radiation effects on, ESR studies of γ and x, 21:22354
  radiation effects on, in proteins, mechanism of uv, 25:37737
  radiation effects on, in solid state, EPR study of γ and x, 24:9733
  radiation effects on, mechanism of, 22:40123
  radioinduced activation of, in rat intestine, effects of prenatal exposure on, 24:50734
  radioinduced changes in molecular structure of, in serum albumin, x, 22:23442
  radioinduced chemiluminescence of aqueous solutions of, x, 23:4700
  radioinduced formation of free radicals in glycine, effects of molecular weight on yields from x, 22:18850
  radioinduced formation of, study of physical factor affecting x, 22:45443
  radioinduced oxidation of main chain of, in dilute aqueous solutions, γ, 25:6342 (UCRL-19530, pp 309-14)
  radioinduced oxidation of, in partial hydrolysates, uv, 21:28348
  radioinduced production by reactions of ammonia with methane, 25:46505(P)
  radioinduced scission of, from myoglobins, γ, 24:31843(R) (UCB-34-P-95-17)
  radiolysis of alanine—glycine, EPR study of free radicals from, 23:9485
  radiolysis of alanine-glycine, EPR studies on free radicals from, 23:40695
  radiolysis of aqueous solutions of, effects of oxygen and pH on production of amides and carbonyl groups by γ, 22:8675
  radiolysis of aqueous solutions of, role of excited species in γ, 24:11594
  radiolysis of aqueous solutions, crystals, and glasses of, ionization and excitation in γ, 23:47530
  radiolysis of oxygen-saturated solutions of, mechanism and yields from γ, 24:2214 (UCRL-18983)
  radiolysis of poly, of crystalline RNAase, γ, 22:30990
  radiolysis of poly-, γ, 22:40556
  radiolysis of simple, in aqueous solution, energy level of excited-molecule intermediates following γ, 24:44440
  radiolysis of solid, effects of structure on yields from, 24:22697
  radiolysis of, effects of temperature on, in relation to free radical formation, 22:28364
  radiolysis of, in aqueous solutions, x, 21:6433
  radiolysis of, kinetics of gamma, 21:19675
  radiolysis of, mechanism of, 23:19757
  radiolysis of, role of hydroxyl radical in, 24:36310
  radioprotective effects of sulfhydryl, on mice, x, 22:28541 (ORNL-4100, pp 152)
  radioprotective effects of thymus, in x-irradiated rabbits, 21:14681
  reactions with electrons, mechanism of, 24:39426(R) (AI-AEC-12974)
  reactions with hydrated electrons to cleave nitrogen—carbon bond, 22:36200
  reactions with hydroxyl radicals in aqueous solutions, rate constants for, 23:13740 (BNWL-715(Pt.2), pp 151-79)
  reduction of disulfide bonds of, with sodium hypophosphite, effect of uv radiation on, 21:10808
  research progress in phlogogenic, 25:48402(R) (SAN-730-X-2)
  separation by column chromatography, 22:19233(R) (COO-209-144)
  synthesis from amino acids, effects of dicyanamide on, 22:12201 (UCRL-17936)
  synthesis of primordial poly-, 22:33734
  synthesis of, in primitive oceans, mechanisms for dicyanamide-mediated, 21:4432 (UCRL-16806, pp 44-52)
  thermoluminescence of tryptophyl-tyrosine, effects of internal energy transfer or quenching on in vitro, 23:41230(R) (TID-25133)
  tritium exchange with hydrogen in poly-, 23:40666
  use of radioisotope-labeled, for scanning, 23:50726
  deoxyribonucleic acid—polypeptides, radiation effects on, γ, 23:45344
Peptidyl-L-amino-acid Hydrolase
    see Carboxypeptidase A
PEPTONES
  effects of, on radiosensitivity of E. coli cultures, 21:13077
  effects on radiosensitivity of Vibrio parahaemolyticus in crab and fish homogenate media, 23:18132 (CONF-681006-, pp 77-81)
  effects on x-radiosensitivity of vesicular stomatitis viruses, 22:595
  radioprotective effects of, on yeasts, x, 22:40632
Peracetic Acid
    see Peroxyacetic Acid
PERBORATES
    see also Sodium Perborates
  determination by reactions with lead acetate, volumetric, 23:15804
  effects on oxidation of hexavalent neptunium ions, 22:48846(T) (ANL-Trans-670)
  paramagnetic centers in, 21:16668(R) (NYO-2024-10)
  reaction with hexavalent neptunium to produce heptavalent neptunium, 22:45058
PERBROMATES
    see also Potassium Perbromates
  radiolysis of glassy and polycrystalline aqueous solutions of, ESR studies of yields from x, 25:39548
  thermodynamic properties of, 24:43990 (ANL-7650, pp 23-34)
Perca
    see under Osteichthyes
PERCH LAKE (ONTARIO)
  calcium content of aquatic plants in, 24:41875 (AECL-3430, pp 19-31)
  evaporation rates of, measurement using tritium, 22:35919(R) (AECL-3022)
  meteorology studies at, 24:41875 (AECL-3430, pp 19-31)
  radioactive waste disposal in, monitoring of, 24:41875 (AECL-3430, pp 19-31)
  radioactivity monitoring in atmosphere at, 24:41875 (AECL-3430, pp 19-31)
  radioecology of, 25:11074(R) (AECL-3777)
  radioecology of, 25:37728(R) (AECL-3860)
  strontium content of aquatic plants in, 24:41875 (AECL-3430, pp 19-31)
  tritium content of ground waters beneath swamp of, 24:41875 (AECL-3430, pp 19-31)
Perch, Yellow (Perca)
    see Perca under Osteichthyes
PERCHLORATES
    see also Aluminum Perchlorates
    see also Ammonium Perchlorates
    see also Barium Perchlorates
    see also Cadmium Perchlorates
    see also Calcium Perchlorates
    see also Cerium Perchlorates
    see also Cesium Perchlorates
    see also Chromium Perchlorates
    see also Cobalt Perchlorates
    see also Copper Perchlorates
    see also Dysprosium Perchlorates
    see also Erbium Perchlorates
    see also Europium Perchlorates
    see also Gadolinium Perchlorates
    see also Holmium Perchlorates
    see also Iron Perchlorates
    see also Lanthanum Perchlorates
    see also Lead Perchlorates
    see also Lithium Perchlorates
    see also Lutetium Perchlorates
    see also Magnesium Perchlorates
    see also Manganese Perchlorates
    see also Mercury Perchlorates
    see also Neodymium Perchlorates
    see also Nickel Perchlorates
    see also Potassium Perchlorates
    see also Praseodymium Perchlorates
    see also Rare Earth Perchlorates
    see also Rubidium Perchlorates
    see also Samarium Perchlorates
    see also Scandium Perchlorates
    see also Silver Perchlorates
    see also Sodium Perchlorates
    see also Terbium Perchlorates
    see also Thallium Perchlorates
    see also Thorium Hydroxide Perchlorates
    see also Thorium Perchlorates
    see also Thulium Perchlorates
    see also Titanyl Perchlorates
    see also Uranium Perchlorates
    see also Uranyl Perchlorates
    see also Vanadyl Perchlorates
    see also Ytterbium Perchlorates
    see also Yttrium Perchlorates
    see also Zinc Perchlorates
    see also Zirconium Perchlorates
    see also Zirconyl Perchlorates
  book: Radiation-Induced Decomposition of Inorganic Molecular Ions, 24:38969
  complexes with erbium and holmium in presence of TOPO and TTA, spectrophotometric studies on, 23:35283
  complexes with tetradecylammonium bromide complexes with uranyl bromides, spectral studies on, 22:27681
  complexes with uranyl ions, formation of, 22:25338
  determination by radiometric method following solvent extraction with zinc-phenanthroline, 24:22602
  determination following separation by solvent extraction using neutral red, spectrophotometric, 25:23504
  effects of, on oxidation of uranium by bromate ions, 21:3056
  effects on bromine-82 uptake by blood and thyroid gland of rats, 22:10689
  effects on chemical and physical properties of tetravalent uranium in aqueous solution, 23:31357
  effects on compartmental redistribution of technetium-99m-labeled pertechnetate in human plasma in relation to plasma protein binding, 24:17083
  effects on dissolution of uranium dioxide single crystals in acid solutions, 25:31891 (NIM-1031)
  effects on distribution of uranyl ions in 2,4-pentanedione—phosphoric acid ester, 22:27894
  effects on hydrolysis of uranyl ions, spectral studies on, 21:19632
  effects on iodine-131 distribution in rat tissues, 21:1719
  effects on iodine-131 metabolism in lactating goats, 24:16967
  effects on polarographic behavior of molybdenum, 23:40542
  effects on radiolysis of potassium nitrate, 24:22704
  effects on sorption of niobium as oxalate on ashless platinized coal, 23:28974
  effects on spectrophotometric determination of hafnium as reduced molybdosulfatohafnic acid, 23:34985
  effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
  effects on spectrophotometric determination of iron using 2,4-dihydroxypropiophenone oxime, 22:36
  effects on spectrophotometric determination of tungsten by molybdotungstic acid formation, 22:22979
  effects on structure of water, 24:33683
  effects on technetium-99 uptake by blood following brain scans, 24:772
  effects on uranium separation from carbonate solutions by ion exchange, 23:43387
  effects on vanadium-48 exchange between trivalent and tetravalent vanadium in aqueous acid solutions, catalytic, 23:26219 (LA-4147)
  hydration in organic solvents, 25:6290 (UCRL-19530, pp 270-308)
  preparation of saturated copper-63- and -65-labeled solutions of, in heavy water, 22:130 (AERE-M-1948)
  production in γ-irradiated potassium chlorate, 23:17493
  radiolysis of alkali and alkaline earth, EPR spectral studies on mechanism of γ, 22:51041
  radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
  radiolysis of glassy and polycrystalline aqueous solutions of, ESR studies of yields from x, 25:39548
  radiolysis of, effects of cerium or iron ions on yields of chloride ions from, 24:48129
  separation of iron from aqueous solutions of, by solvent extraction using D2EHPA in octane, 23:361 (ORNL-4272, pp 174-86)
  separation of lead and scandium from solutions of, by solvent extraction using bis(2-ethylhexyl) phosphate, 24:19058

  separation of neodymium and samarium from aqueous solutions of, by solvent extraction using bis(2-ethylhexyl) esters of phosphoric acid, 22:21163
  separation of plutonium from solutions of, by solvent extraction using dibutyl phosphate, 21:19747
  separation of uranium from, by ion exchange column chromatography using Alamine 336, 24:38710 (IS-T-385)
  spectra in γ-irradiated doped barium sulfates, ESR, 24:38922
  use to promote excretion of technetium-99m by rats, effects of age and sex on, 23:35620
  yields of ions of, in gamma radiolysis of crystalline potassium chlorate, 23:217 (ORNL-4306, pp 58-65)
PERCHLORIC ACID
  analysis for plutonium, polarographic, 23:40560
  analysis of analytical grade, for impurities by neutron activation, 25:57379
  analysis of aqueous solutions of, for carbon-14 and tritium, scintillation, 23:90
  analysis of radiolytic solutions of, for hydrogen peroxide by oxidation and spectrophotometry, 24:13777 (ORNL-4466, pp 62-88)
  analysis of solutions of, for ruthenium, 23:45199
  analysis of solutions of, for uranium(VI) using Arsenazo III, 22:22986
  diffusion of thallium ion in, radiochemical study of self, 23:37947
  effects of, on determination of yttrium by flame photometry, 21:15867
  effects of, on hydrolysis of camphoric and pivalic anhydride, 21:3061
  effects of, on nitrogen-15 exchange between nitric acid and nitric oxide, mechanism of, 21:3146(R) (NYO-755-3)
  effects of, on oxygen-18 exchange between acetic acid and water, 21:10324
  effects on absorption spectra of niobium and protactinium chlorides, 21:45112
  effects on absorption spectra of plutonyl perchlorates in aqueous solutions, 22:27650
  effects on chemical stability of hafnium oxide—rare earth oxide compounds, 24:27854
  effects on determination of polonium-210 in rocks and uranium ores by spontaneous deposition on silver, 23:89
  effects on distribution of valence forms of neptunium-239 in beta decay of uranium-239 solutions, 22:27843
  effects on emission and flame photometric determination of calcium, 21:27920
  effects on fixation of alkali on hydrated antimony pentoxide, 25:2333
  effects on gas evolution in radiolysis of stored aqueous solutions of plutonium, 25:15660(T) (AEC-tr-7217)
  effects on ion exchange properties and sulfate content of γ-irradiated Zeocarb 225, 25:166
  effects on ion exchange separation of cadmium from mixtures of metals, 24:27204
  effects on nitrogen-15 exchange between nitric acid and nitric oxide in exchange column, kinetics and mechanism of, 24:4258 (CU-755-6, Sect.3))
  effects on photoinduced oxidation of plutonium ions, 24:200
  effects on polarographic behavior of uranium, 22:27535 (NIM-129)
  effects on ruthenium volatility in fixation of radioactive wastes in glass, 22:23094(R) (IAEA-3431-4)
  effects on solvent extraction of cerium from fission products and rare earths by dibutyl phosphate, 23:11612
  effects on sorption of cesium, ruthenium, and strontium by zirconium phosphate, 23:385
  effects on sorption of hafnium or zirconium by silicone-coated silica gel, 25:21097
  effects on sorption of niobium by silicone-coated silica gel, 25:21096
  effects on sorption of tantalum by silicone-coated silica gel, 25:21095
  effects on sorptive properties of Dowex-50 for trace divalent ions, 23:38027(R) (NYO-2269-13)
  effects on stability of carrier-free iodine-131-labeled iodate, 21:24048 (TID-23803)
  effects on stability of hafnium borides, 24:19478
  effects on stability of trivalent uranium, 21:42924
  effects on tritium—hydrogen exchange in aromatic hydrocarbons, 21:23900
  effects on vanadium-48 exchange between trivalent and tetravalent vanadium in presence of ligands, effects of deuterium on, 23:26219 (LA-4147)
  electric conductivity of, in heavy and light water, effects of temperature on, 23:172
  molecular state of deuterated and normal, in aqueous solutions, spectral studies on, 21:30402 (UCRL-17330, pp 1-78)
  molecular structure of, 22:10207 (UCRL-17915)
  properties in tributyl phosphate—water systems, 22:154
  properties of concentrated, for clear glass formation at liquid-nitrogen temperature for use in spectrofluorimetric determination of inorganic traces, 23:9376
  radiation effects on photolytic transformation of radicals in aqueous solutions of, EPR spectral studies on gamma, 21:25883
  radiation effects on solid aqueous solutions of, spatial distribution of hydrogen atoms released by γ, 21:36011
  radiolysis at -196°C, distribution of stabilized hydrogen atoms from gamma, 24:13903
  radiolysis of air-saturated, absorption spectra and kinetics of hydrogen sesquioxide and perhydroxyl radical from electron-pulse, 23:279
  radiolysis of aqueous solutions of, at 77°K, ESR studies on hydrogen atoms from γ, 24:33737
  radiolysis of aqueous solutions of, ESR study of decay of hydrogen atoms in γ, 23:33238
  radiolysis of aqueous solutions of, kinetics of gamma, 21:12453
  radiolysis of aqueous solutions of, reactions of copper, iron, and methanol with hydrogen atoms produced by γ, 23:240
  radiolysis of aqueous solutions of, spectral studies on kinetics of pulse x, 22:33371 (AD-662736)
  radiolysis of aqueous, reactions of ferric iron with hydrated electrons from γ, 25:51523
  radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
  radiolysis of frozen aqueous solutions of, containing impurities, EPR spectral studies on γ, 22:16578
  radiolysis of frozen aqueous solutions of, EPR studies on radical production in γ, 25:37433
  radiolysis of frozen aqueous solutions of, isotope effects on, 25:51525
  radiolysis of frozen aqueous solutions of, LET effects on yields and distribution of free radicals from α and γ, 25:51536
  radiolysis of organic solutes in aqueous solutions of, rate constants for reactions of hydrogen atoms produced by γ, 25:18459
  radiolysis of solutions of, pulsed x-ray, 23:6170
  radiolysis of, at 77°K, reactions of halogen-substituted acetic acids with mobile electrons formed in γ, 25:34648
  radiolysis of, kinetics of intermediate decay in electron pulse, 23:47504
  radiolysis of, reactions of hydrated electrons during and after x-ray pulse, 22:18815
  radiolysis of, reactions of products formed by, 23:9306 (ORNL-4343, pp 62-84)
  reactions of U_3O_8 and iron(III) ions in, 21:14200
  reactions of, with olefinic ketones, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
  reactions with 1-azulenecarboxylic acid, effects of acidity on carbon-13 isotope effects on decarboxylation, 23:31337
  reactions with neptunium chlorides and neptunium nitrates, stability constants of compounds formed by, 24:18972
  reactions with neptunium, thermodynamics of equilibrium in oxidation-reduction, 23:40610 (CEA-N-1044, pp 331-80)
  reactions with plutonium, formation and decomposition of peroxy complexes in, 25:2154
  reactions with plutonium, formation of brown and red peroxy complexes in, 23:118
  reactions with tetravalent protactinium in aqueous solutions, kinetics of oxidation, 25:20996
  reactions with uranium, rate of, 24:38843
  reactions with uranyl ions, disproportionation and ECE kinetics in reduction, 25:54585
  separation by solvent extraction using butyl sulfoxide, 24:16645
  separation by solvent extraction using methylenebis[di-n-hexylphosphine oxide] in carbon tetrachloride, 22:6402
  separation by solvent extraction using TBP in benzene, chloroform, and 1,3,5-triethylbenzene, complexing in, 22:37718 (UCRL-17989, pp 181-252)
  separation by solvent extraction using TBP in carbon tetrachloride, 1,2-dichloroethane, and 2-methylheptane, complexing in, 22:37718 (UCRL-17989, pp 181-252)
  separation from aqueous solutions by solvent extraction using TBP, salting-out effects in, 23:28965
  separation from aqueous solutions by solvent extraction using trioctylphosphine oxide, 25:6290 (UCRL-19530, pp 270-308)
  separation from aqueous solutions by solvent extraction using tris(2-ethylhexyl) phosphate, 25:6290 (UCRL-19530, pp 270-308)
  separation from sulfuric acid by solvent extraction using TBP, 23:40807
  separation from water by solvent extraction using 1-decanol in 1,2-dichloroethane or 2-methylheptane, proton solvation in, 22:37718 (UCRL-17989, pp 181-252)
  separation of barium, calcium, and strontium from, by solvent extraction using TBP, 22:30675
  separation of cerium, europium, terbium, and thulium from aqueous solutions of, by solvent extraction using dibutyl phosphate, 23:49901
  separation of cesium from, by solvent extraction using nitrobenzene, mechanism of, 22:6415
  separation of curium and einsteinium from solutions of, by solvent extraction using dibutyl diethylcarbamoylphosphonate, 24:48151
  separation of europium and indium from solutions of, by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butenedione and 2-isopropyl-2,4,6-cycloheptatrien-1-one, 21:32238
  separation of Group IVB to VIIB elements, rare earths, scandium, and yttrium from, by solvent extraction using bis(2-ethylhexyl) phosphate, 23:49900
  separation of hafnium and zirconium from, by solvent extraction using benzylhydroxyphenylarsine oxide in chloroform, 24:39024
  separation of hafnium and zirconium from, by solvent extraction using N-phenylbenzohydroxamic acid or 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6395
  separation of iodine from, 22:42656 (UCRL-13352)
  separation of neptunium from solutions of, by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 22:45174
  separation of plutonium from, by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 21:12358
  separation of protactinium from, by solvent extraction with TTA, 22:30661
  separation of protactinium from, by solvent extraction using benzene solutions of 4-methyl-2-pentanone and 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 24:16663
  separation of protactinium from, by solvent extraction using benzene—TTA, synergistic effects of 2,6-dimethyl-4-heptanol on, 24:5709
  separation of protactinium from, by solvent extraction using 2,4-pentanedione, 22:30576
  separation of thorium and uranium from aqueous solutions of, by solvent extraction using 4-methyl-2-pentanone, effects of lithium chloride or magnesium chloride on, 25:29195
  separation of uranium from aqueous solutions of, by solvent extraction using bis(2-ethylhexyl) phosphate, 21:4598
  separation of uranium-239 from, by solvent extraction using DEHPA, 24:46198(R) (NBS-TN-508)
  separation of, from aqueous solutions by solvent extraction using trioctylarsine oxide, 21:14134 (ORO-2733-4)
  solubility in dioctylarsinic acid, 22:22901(R) (ORO-2733-13)
  solvent properties for cerium, thorium, and uranium dicarboxylates, 23:13736
  solvent properties for neutron-irradiated Armco iron, 22:16596
  solvent properties for thorium and uranium pyrophosphates at 25°C, 22:27691
  solvent properties for thorium citrate, 22:10229
  solvent properties of γ-irradiated, for metals, 23:9306 (ORNL-4343, pp 62-84)
  spectrophotometric studies at 25 to 250°C of deuterated, 22:42578 (ORNL-4279)
  thermodynamic properties of, 22:25209(R) (COO-1712-1)
  titration in nonaqueous solvents, coulometric, 21:47013 (IS-T-159)
  use in determination of TBP in kerosene solutions, 23:24065 (NP-17815)
  use in oxidation of cerium(III), 21:38909
  use in separation of thallium from metallic mixtures by cation exchange chromatography, 21:3000
  acetic acid—chloroacetic acid—HCl—$HClO_4$, performance in electrolytic polishing of zirconium and zirconium alloys, 25:16427(P)
  benzene—$HClO_4$—$LiClO_4$—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, distribution coefficient of plutonium in, 23:37944
  chloroform—$HClO_4$—TBP, europium distribution in, effects of chelating acids on, 21:32260
  $DClO_4$—$HClO_4$—H_2O, molecular state and thermodynamics of, 22:45029 (UCRL-18043, pp 7-105)
  dioxane—$HClO_4$—H_2O, effects on exchange of calcium and strontium on Dowex-1 resin, 24:46313
  dioxane—$HClO_4$—H_2O, separation of calcium and strontium from, by ion exchange, 21:32223 (CLOR-62/D)
  ethylene glycol—HCl—$HClO_4$—HNO_3, properties for use as beryllium etchant and polish, 24:8124 (CONF-670533-, pp 1-15)
  glucose—$HClO_4$—$NaNO_3$, radiolysis of aqueous solutions of, effects of pressure on yields of hydrogen from γ, 24:29349
  H—$HClO_4$, radiolysis of deaerated aqueous solutions of, uv spectra of free hydrogen atoms in pulsed-electron, 23:4691
  HCl—$HClO_4$—HNO_3, solvent properties for fissium—uranium alloys, 22:43629(R) (LA-3933)
  $HClO_4$—H_2O—$LiClO_4$, osmotic coefficients of, thermodynamics of, 21:45087 (ORNL-4164, pp 57-82)
  $HClO_4$—H_2O—$NaClO_4$, osmotic coefficients of, thermodynamics of, 21:45087 (ORNL-4164, pp 57-82)
  $HClO_4$—H_2O—trifluoroacetic acid, effects on deuterium exchange in benzenoid hydrocarbons, 22:27632
  $HClO_4$—HNO_3, effects on hydrolysis of zirconium ions, thermodynamics of, 21:19622
  $HClO_4$—HNO_3, effects on solvent extraction of cerium from fission products and rare earths by dibutyl phosphate, synergic, 23:11612
  $HClO_4$—$LiClO_4$, effects on hydrolysis of zirconium ions, thermodynamics of, 21:19622
  $HClO_4$—N_2O, radiolysis of, transient conductivity measurements of yields from electron pulse, 23:45338
  $HClO_4$—$NaClO_4$, effects on hydrolysis of uranium ions, thermodynamics of, 21:19622
  $HClO_4$—NH_4SCN, separation of hafnium and zirconium from, by solvent extraction using benzylhydroxyphenylarsine oxide in chloroform, 24:39024
  $HClO_4$—oxalic acid, effects on solubility of thorium oxalates in aqueous solutions, 21:19621
  $HClO_4$—oxalic acid, effects on stability of thorium oxalate complexes in aqueous solutions, 21:19621
  $HClO_4$—tridodecylamine, vapor pressure in non-polar solvents, determination of activity coefficients from lowering of, 22:30518
  $HClO_4$—$UO_2(ClO_4)_2$, osmotic coefficients for aqueous solutions of, 24:48066 (ORNL-4581, pp 90-130)
  $HClO_4$—$UO_2(ClO_4)_2$, thermodynamic properties of aqueous solutions of, 24:180 (ORNL-4437, pp 60-86)
Peremesin
    see Cerium Oxalates—colloidal
PERFUME
  processing of, bibliography on tracer techniques for use in, 22:4727
  radiation effects on fragrance of, 22:10313(P)
  radiation effects on isoamyl salicylate, γ, 22:10311(P)
  radiation effects on quality of geraniol, 22:23082(P)
  toxicity of Shalimar, to denuded human skin exposed to uv-irradiation, 21:13056
PERGERMANATES
    see also Sodium Pergermanates
PERHAPSATRON
    see also Electric Arcs
Periclase
    see Magnesium Oxides
PERIDOTITES
  analysis for bismuth by neutron activation, 24:50357(R) (ORO-2670-40)
  analysis of nodules of garnet, from Roberts Victor mine, South Africa for lead-204/lead-206, lead-204/lead-207, lead-204/lead-208, and rubidium-87/strontium-86, 25:20910

analysis of nodules of garnet, from Roberts Victor mine, South Africa for lead, rubidium, strontium, thorium, and uranium, 25:20910
Peridots
see Olivines
PERIODATES
see also Bismuth Periodates
see also Lead Periodates
see also Potassium Periodates
see also Silver Periodates
see also Sodium Periodates
determination in presence of iodides and iodates, 22:14428 (ORNL-4196, pp 33-44)
effects on formation of iodine-131 by beta decay of tellurium-131, 24:20800
effects on γ-irradiated bacterial spores, 24:44635
effects on oxidation of hexavalent neptunium ions, 22:48846(T) (ANL-Trans-670)
polarography of, analytical uses of, 24:38677(T) (ORNL-tr-2337)
radiolysis of aqueous solutions of, study of transient species in electron pulse, 25:57466
radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
reaction with hexavalent neptunium to produce heptavalent neptunium, 22:45058
reactions with tris(1,10-phenanthroline)iron, use as catalytic method for determining ruthenium, 23:40545
separation from xenon oxides by thin-layer chromatography, 25:15693
separation of iodine-131-labeled, from iodates and iodides by thin-layer chromatography, 25:13099
PERIODIC ACID
dissociation of, effects of deuterium on, 21:74
effects of, on oxidation of pinacol, effects of acidity and deuterium on, 21:5881
use in separation of ruthenium from fuel processing wastes, 21:34315 (CEA-R-3231)
use of, in test for abnormal lymphatic cells, 21:11104
PERIODIC SYSTEMS
(Systematic arrangements and classification schemes for elements or nuclides)
arrangement of actinides and rare earths in revised, 25:15563(T) (UCRL-Trans-10510)
book: Atomic and Nuclear Chemistry. Vol. 1. Atomic Theory and Structure of the Atom, 22:25367
book: The Encyclopedia of the Chemical Elements, 22:45055
development of, review on, 25:39020
energy pattern of electronic orbitals of elements in, 24:44002
extension in region of atomic number 114, 24:11628
proposal of double-shell, 24:27095
PERIODONTIUM
radiation effects on rat, comparison of local and whole-body exposure x, 25:52223
radiation effects on, in rats following exposure of trunk, 24:25567
radioinduced calcification of rat, whole-body x, 21:14758
radioinduced morphological changes in rat, whole-body x, 21:14758
Periscopes
see Remote-Viewing Equipment
Peritectic Reactions
see Phase Studies
PERITONEUM
see also Mesoappendix
cell patterns in fluids from, use of, to evaluate course of radiotherapy for human cervical carcinomas, 24:41946
phagocytosis of plutonium-239-labeled plutonium oxide particles in rat, effects of particle size on, 23:24533
radiation effects on abdominal, of hamsters, description of laser, 21:11020
radiation effects on healing of wounds in rat, x, 21:24629
radiation effects on leukocyte count in, of rats, whole-body x, 22:33913
PERLITE
fabrication of high-temperature heat-insulating articles of, 22:19684(P)
Permalloy
see Nickel Alloys and Systems
PERMANGANATES
see also Barium Permanganates
see also Cesium Permanganates
see also Lithium Permanganates
see also Potassium Permanganates
see also Rubidium Permanganates
see also Silver Permanganates
see also Sodium Permanganates
book: Radiation-Induced Decomposition of Inorganic Molecular Ions, 24:38969
determination using ion permselective membrane, potentiometric, 25:28956
effects of ions of, on sorption of uranium by ion exchange resins, 22:47124
effects of tissue fixation in, on detection of cellular injuries induced in sympathetic neurons of γ-irradiated hamsters, 21:8668(R) (AD-634405)
properties as corrosion inhibitors, 21:16569
radiation effects on thermal decomposition of, 22:15231
radiation effects on, effects of cation on thermal annealing of recoil manganese-56 yields from neutron, 23:40718
radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
reactions with deuterated and normal formate ions, kinetics of isotope effects on, 22:4127
stretching frequencies in aqueous solutions, effects of oxygen-18 on, 24:13825
use for decontamination of pressurized water reactors, alkaline, 21:43427
PERMEABILITY
see also Diffusion
see also Magnetism
see also Porosity
measurement of oil shale, design of device for, 23:17641 (UCRL-50562)
measurement of sintered material, design of equipment for, 25:6907(R) (SRO-552-4)
radiation effects on membrane, in rat thymocyte nuclei, cesium-137 γ, 24:34088
radiation effects on, of blood-brain barrier in dogs, γ, 23:6368
radiation effects on, of cell membranes in plants, effects of dose and dose rate on γ, 24:46581
radiation effects on, of DNP monolayer interfaces, 24:27537
radiation effects on, of lipovitellin monolayers, mechanism for uv, 24:39430
Permittivity
see Dielectric Constants
PEROVSKITES
analysis for calcium, iron, niobium, phosphorus, rare earths, strontium, titanium, and zirconium by chemical methods, 24:18889
crystal structure of, 24:10176
preparation and properties of, 24:10176
properties of rare earth, electric and optical, (T), 25:45603
radiation effects on, 24:10176
PEROXIDASE
activity in barley leaves following seed irradiation, 21:24300
activity in barley seeds, effects of sodium azide on, 23:20432
activity in radioinduced mutants of cotton plants, 24:12056
activity in rats, effects of monoiodoacetic acid on, 22:45618
activity of irradiated, effects of vitamin K3 on, 21:4841
conformation of, use of circular dichroism for determination of, 22:25723 (UCLA-12-668, pp 71-84)
content in leukocytes of blood and tissues of mice and rats, 21:22268
content of, in aged barley seeds, 21:11112(R) (RLO-353-9)
Cotton effect in horseradish, effects of urea on, 21:20034 (UCLA-12-612, pp 15-36)
effects on metabolism of thiocyanates in mammals, 21:32563(R) (ORO-1637-14)
enzymes of horseradish, activity, amino acid composition, and structure of apoiso and iso, 22:33718 (UCLA-12-640, pp 61-80)
magnetic properties of, review of, 25:6646
molecular forms of, determination using starch gel electrophoresis, 21:24300
production in cut sweet potatoes, effects of exogenous ethylene on, 24:17001
radiation effects on activity and distribution in shoots of maize grown from thermal neutron- and x-irradiated seed, 21:24342
radiation effects on activity of aqueous solutions of horseradish, mechanisms of continued inactivation following γ, 25:49113
radiation effects on activity of lactate, in dairy cattle milk, γ, 21:22257
radiation effects on activity of, from horseradish and turnip, effects of ferric chloride, glucose, heat, 3-indolylacetic acid, pH, and sodium bisulfite on electron and gamma, 22:30973
radiation effects on activity of, in beans and clover, effects of seed exposure on, 23:29373
radiation effects on activity of, in blood of guinea pigs and rats, comparison of x, 24:48392(T) (ANL-Trans-841)
radiation effects on activity of, in external peel layers of oranges, effects of dose rate on γ, 24:48785
radiation effects on activity of, in guinea pigs and rats in relation to radiosensitivity, 900 R x, 24:34608(T) (ANL-Trans-804)
radiation effects on activity of, in human leukocytes, infrared and radio wave, 22:36197
radiation effects on activity of, in milk, effects of oxygen on, γ, 22:14950
radiation effects on activity of, in papayas, 23:47955 (UH-235-P-5-4, pp 115-20)
radiation effects on activity of, in plants, γ, 21:6719
radiation effects on activity of, in potato tubers in relation to tissue browning, γ, 25:21584
radiation effects on activity of, in potatoes after cutting, cobalt-60 γ, 23:3006
radiation effects on activity of, in seed and seedlings of barley, x, 22:17050(R) (EUR-3606)
radiation effects on activity of, in sprouts of beans and clover, γ, 25:2596
radiation effects on activity of, in sprouts of peas, uv, 21:28363
radiation effects on activity of, in sweet potato root slices, combined effects of cutting on cobalt-60 γ, 23:35656
radiation effects on activity of, in swine following ingestion of strontium-90 in relation to development of hematopoietic neoplasms, β, 25:495 (CONF-680529-, pp 453-65)
radiation effects on activity of, in tomatoes, γ, 21:28391
radiation effects on content of, in maize seedlings, comparison of, to effects of maleic hydrazide, x, 21:14599
radiation effects on content of, in papaya fruits, γ, 23:10132 (UH-235-P-5-3, pp 3-13)
radiation effects on development of, in sweet potato root tissues, effects of ethylene on γ, 25:35105
radiation effects on distribution of exogenous, in intestines of mice, x, 22:31219
radiation effects on inhibitors of, in broad bean seedlings, γ, 25:10973
radiation effects on isoelectric properties of horse-radish, dose dependence of γ, 25:24051
radiation effects on production of, in cut sweet potatoes, effects of cycloheximide on cobalt-60 γ, 24:17001
radiation effects on reaction of, with granulocytes from guinea pigs, x, 22:38215
radiation effects on, in chloroplasts of lupine and Vicia faba, γ, 21:41334
radiation effects on, in orange peel, cobalt-60 γ and electron, 23:29946
radiation effects on, in oranges, β and γ, 22:23694 (IA-1128, pp 168-84)
radioinduced inactivation of dry, effects of dose rate on ionizing, 24:46615
radioinduced inactivation of, comparison with photodynamic inactivation, γ, 23:20114
radioinduced inhibition of, in barley, synergistic effects of sodium azide on barley, 24:21319 (RLO-353-36)
radiosensitivity during formation of enzyme-substrate complex with hydrogen peroxide, 21:34604
synthesis in fungi, effects of mutations on, 22:25206(R) (COO-1301-5)
PEROXIDE, ACETYL BENZOYL
photolysis at 77°K, EPR studies on radical pair formation in uv, 23:254
radiolysis to 300°K, EPR studies on radical pair formation in electron, 23:254
PEROXIDE, BIS(α,α-DIMETHYLBENZYL)
photolysis at 77°K, EPR studies on radical pair formation in uv, 23:254
radiolysis to 300°K, EPR studies on radical pair formation in electron, 23:254
PEROXIDE, BIS(TRIFLUOROMETHYL)
photolysis of, spectral studies on, 22:96(R) (RRL-2310-214)
PEROXIDE, tert-BUTYL METHYL
yields from γ radiolysis of liquid tert-butyl hydroperoxide, 24:7467
PEROXIDES
see also Acetyl Peroxide
see also Ammonium Uranyl Fluoride Peroxides
see also Benzoyl Peroxide
see also tert-Butyl Peroxide
see also Deuterium Peroxides
see also Hydrogen Peroxides
see also Hydroperoxides
see also Neptunium Peroxides
see also Plutonium Peroxides
see also Potassium Uranyl Fluoride Peroxides
see also Protactinium Peroxides
see also Sodium Peroxides
see also Sodium Uranyl Fluoride Peroxides
see also Succinic Peroxides
see also Thorium Peroxides
see also Uranium Peroxides
see also Urea Peroxides
chemiluminescence from decomposition of, 23:31255 (MIT-905-133, pp 37-77)
content of, in irradiated flax seeds, 21:11112(R) (RLO-353-9)
determination by reactions with lead acetate, volumetric, 23:15804
effects in electron-induced oxidation of polystyrene, 21:25888
effects of, on luminescence experiments with irradiated serum albumin solutions, 21:10752
effects on color center properties of sodium fluoride, 22:36963 (AD-664943)
effects on crosslinking of rubber, 22:25396
effects on glucose oxidase system and peroxidase o-dianisidine system, 21:20457(R) (RLO-1730-5)
effects on irradiated sucrose, inhibitory, 23:20445
effects on radioinduced luminescence in solutions of DNA, 23:33625(T) (AD-843709)
effects on separation of molybdenum from rhenium by solvent extraction using isopentyl acetate, 25:21140
electrolysis of, 21:10342
formation during γ-radiolysis of cysteine to cystine, measurement of, 21:20034 (UCLA-12-612, pp 15-36)
formation of, by gamma-induced oxidation of hydrocarbons, 21:5946
hazards of ether, 21:32143 (ORNL-TM-1884)
photochemical formation of, review of electron transfer processes in, 22:2150
photolysis of inorganic, reactive radicals produced in 2537 A, 24:29170(R) (USC-113-P-4-16)
radiation effects on content of lipid, in liver and spleen of rats, x, 23:7929 (INR-921)
radiation effects on content of lipid, in rat liver mitochondria, whole-body x, 21:14603
radiation effects on content of lipid, in rat liver and spleen, whole-body x, 21:8852
radiation effects on content of, in blood serum of rats, whole-body x, 21:45785
radiation effects on content of, in sunflower seed oil, 25:21998
radiation effects on formation and content of lipid, in subcellular fractions of liver of rats, acute x, 23:4887
radiation effects on formation of ferrous ion-induced lipid, in mitochondria of mice, x, 23:47966
radiation effects on formation of lipid, in rat liver, x, 21:12763
radiation effects on production of, from histidine, chromatographic separation following x, 24:36701
radiation effects on radicals of, in glassy poly(methyl methacrylate), spectral studies on x, 22:35847
radiation effects on release of, from animal cells, ionizing, 24:852
radiation effects on yields of, in aqueous solutions of peptides, γ, 21:6433
radiation effects on, of lipids in tissues of rats, effects of dose rate on γ, 21:41349
radioinduced formation and conversion of, in oxidation of hydrocarbons, 21:23976
radioinduced formation by oxidation of hydrocarbons, x, 22:33394
radioinduced formation in polypropene and polytetrafluoroethylene, EPR study of, 24:13961
radioinduced formation of lipid, in blood in vitro, β and γ, 23:38456
radioinduced formation of lipid, in microsomes, protective effects of glutathione, o-phenanthroline, and vitamin E against electron, 24:41770

radioinduced formation of, in biological materials, ionizing, 22:51480
radioinduced formation of, in flax seed, γ, 21:14604
radioinduced formation of, in living tissues, 21:8744
radioinduced free radicals of, effects on uv-induced luminescence in serum albumin solutions, 21:14598
radioinduced output of, from peptides, γ, 22:45417
radioinduced production of lipid, in animals and plants, mechanism of, 25:47004
radioinduced production of trapped radicals of, in trifluoroacetamide, ESR spectral studies on γ, 23:40751
radioinduced, in biological systems, effects on radiosensitivity, 21:16450(T) (NP-tr-1483)
radioinduced, in cells, review of, 22:40612
radioinduced, in glucose and sucrose solutions, effects of concentration and pH on γ, 23:47956 (UH-235-P-5-4, pp 169-75)
radioinduced, in living systems, discussion on effects of, 21:16273
radioinduced, in oleic acid, radioprotective effects of, on carotene, 22:28303
radioinduced, role of, in radiation effects on animals, a review, 21:14601
radiolysis in hydrocarbon matrices, 23:17479
radiolysis of organic, in polystyrene or toluene, 23:17478
reactions of natural anti-oxidants with free radicals of, effects of, on survival of x-irradiated mice, 21:26631
reactions with iodides, determination of molybdenum by measurement of catalytic effects on, 23:34987
role of, in radiobiological effect, 21:14563(T) (NP-tr-1479)
yield from radioinduced oxidation of isooctane, effects of dose and temperature on, 21:109
yields from γ radiolysis of aerated aqueous solutions of iodomethane in presence of potassium iodide, 23:11572
yields from γ radiolysis of ethanol and sodium formate, 23:19802
yields from radioinduced oxidation of products from radiolysis of petroleum—water emulsions, 21:23987
yields of organic, in γ radiolysis of cyclohexane, methylcyclohexane, and trimethylpentane, 23:247

PEROXYACETIC ACID
use for sterilization of radium cells, 22:40980

PEROXYBENZOIC ACID
reactions with substituted acetophenones, effects of carbon-14 on, 22:16485(R) (ORO-3234-6)

PEROXYBENZOIC ACID, tert-BUTYL ESTER
effects on electron-radioinduced curing of diallyl phthalate—vinyl acetate for use as laminate for wood veneer, 24:11571 (JAERI-5022, pp 111-24)

Peroxyborates
see Perborates

PEROXYDICARBONIC ACID, DIISOPROPYL ESTER
$CuCl_2$—diisopropyl peroxydicarbonate, reactions with benzene and toluene, effects of deuterium on, 22:21066

PEROXYDISULFATES
see also Ammonium Peroxydisulfates
see also Potassium Peroxydisulfates
see also Sodium Peroxydisulfates
decomposition in radioactive wastes, effects of catalysts on, 23:45367 (JUL-591-DE)
effects on reduction of heptavalent neptunium in acid solutions, 24:38848
reactions with heavy and light water, isotope effects in, 23:128
reduction by iron(II) salts of 1,10-phenanthroline in ethanol solutions, 21:30393(R) (COO-1001-14)

PEROXYDISULFURIC ACID
effects on γ-radioinduced reduction of cerium(IV) in sulfuric acid solutions, 24:215 (ORNL-4437, pp 48-56)
radiation effects on reactions of, with trivalent cerium, γ, 24:31417
radiolysis of, effects of concentration, pH, radiation time, and radical scavengers on γ, 23:47509
radiolysis of, effects of pH and radical scavengers on γ, 23:24218 (LFEN-87-a)

PEROXYMOLYBDATES
see also Sodium Peroxymolybdates

PEROXYMONOSULFURIC ACID
(Caro's Acid)
determination simultaneously with cerium by sodium acetate precipitation, iodometric titration, and spectrophotometry, 23:49716
effects on γ radiolysis of peroxydisulfuric acid, 23:47509

PEROXYPIVALIC ACID, tert-BUTYL ESTER
decomposition of, effects of deuterium on, 21:27960

PEROXYSULFATES
photolysis of crystals of, ESR spectral studies on mechanism and radical interconversion in uv, 24:41345
radiolysis of crystals of, ESR spectral studies on mechanism and radical interconversion in γ, 24:41345
yields from γ radiolysis of aqueous sulfuric acid solutions, 25:2265

PERPHENAZINE
effects on unconditioned reflexes in irradiated cats, 25:29643
use for treatment of nausea and vomiting in radiotherapy patients, 24:25509

PERRHENATES
see also Ammonium Perrhenates
see also Barium Perrhenates
see also Erbium Perrhenates
see also Neodymium Perrhenates
see also Neptunium Perrhenates
see also Potassium Perrhenates
see also Samarium Perrhenates
see also Sodium Perrhenates
see also Thorium Perrhenates
see also Uranyl Perrhenates
reactions with hydrogen sulfides, formation of tetrathioperrhenates in, 22:2083
separation from hydrochloric acid by solvent extraction using organic oxides, 22:6413
spectra of meso form of, in barium perrhenate, 23:9412
spectra of tetrabutylammonium and tetraphenylarsonium, infrared, 21:32166

PERRHENIC ACID
reactions with uranium trioxide to produce uranyl perrhenate, 23:35104
separation by solvent extraction using TBP in benzene, chloroform, and 1,3,5-triethylbenzene, complexing in, 22:37718 (UCRL-17989, pp 181-252)
separation by solvent extraction using TBP in carbon tetrachloride, 1,2-dichloroethane, and 2-methylheptane, complexing in, 22:37718 (UCRL-17989, pp 181-252)
separation from aqueous solutions by solvent extraction using tris(2-ethylhexyl) phosphate, 25:6290 (UCRL-19530, pp 270-308)
separation from aqueous solutions by solvent extraction using trioctylphosphine oxide, 25:6290 (UCRL-19530, pp 270-308)
separation from aqueous solutions by solvent extraction using trioctylphosphine oxide in 1,2-dichloroethane and nitrobenzene, 23:49772 (UCRL-18667, pp 277-312)

PERSONNEL
(Information on management, safety hazards, licensing and training, etc., related to a group of persons employed in a particular field of endeavor is included here; for studies of or related to individuals in a group, see also Man.)
see also Aviation Personnel
see also Medical Personnel
see also Military Personnel
accidents among Oak Ridge National Laboratory, during 1968, incidence of, 23:41336(R) (ORNL-4423)
accidents involving AEC, during 1943 to 1968, 23:43789 (TID-25128)
accidents involving ORNL, during 1967, 22:43307(R) (ORNL-4286)
accidents involving ORNL, during 1967, 22:43307(R) (ORNL-4286)
activity of alkaline phosphatase in urine of, in uranium processing plants, 23:38606
adaptation to nuclear work, physical and psychological, 23:29426
age at death in relation to scientific occupation and exposure to radiation, 24:4636
alpha activity in nose-blow samples from, at AERE, 22:38249 (BLG-371)
alpha detection in blood and bone marrow of mining, using nuclear emulsions, 25:55236
alpha hand and shoe monitor for, use of air proportional detectors in, 22:25639
analysis of hair of uranium mining, for polonium-210 to estimate exposure to short-lived decay products of radon-222, 25:46831
antimony-124 removal from, at Juelich nuclear research center, use of chelating agents for, 24:36748 (JUL-603-ST, pp 175-85)
assessment of fitness of, at CNEN, role of hemogram in, 23:48076(T) (NP-tr-1780)
atomic energy legal aspects training course for administrative and legal, 22:43336
attitudes of nuclear, toward radioactivity risk, psychological, 23:22282 (EUR-4198)
availability of construction and engineering, for nuclear power industry, 24:5776
Bachelor Degree curriculum for technician, description of, 23:2475
behavior following radiation accidents, 24:7906
behavior in working groups, sociological study of, 21:21826 (IDO-17130)
behavior of civil defense, in recovery activities following nuclear attack, 21:24405 (HSR-RR-67/5-T-1)
bioassay of LRL, by whole-body counting, 24:14479(R) (UCRL-19354)
book: Basic Norms for Health Protection of the Population and Industrial Personnel Against Hazards of Ionizing Radiation, 23:6454
book: Diagnosis and Treatment of Deposited Radionuclides, 23:24624
book: Diplomats, Scientists, and Politicians, 22:1943
book: Health Physics—Process Control Reference Manual. Volume 1, 23:38603 (AD-677369)
book: Health Physics—Process Control Reference Manual. Volume III, 23:38604 (AD-677371)
book: Industrial Hygiene Highlights, vol. 1, 24:31955
book: Legal Problems in Radiation Injuries with Special Regard to Lawful Accident Insurance, 23:9952
book: Means of Individual Protection for Work with Radioactive Materials, 22:40731
book: Problems of Protection in Industrial Utilization of Radioelements, 25:18996
book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
book: Radiological Emergency Operations-Student's Manual, 23:41338 (TID-24919)
book: Reports on Radiation Protection, 23:4972
cancer mortality of mining, 21:14735
carbon-14 contamination of, review of methods for monitoring of, 21:26458
certification of nuclear criticality safety, requirements of program for, 24:31668
certification requirements for industrial radiography, 25:16111
chromosome aberrations in leukocytes of nuclear industry personnel, 22:28436
chronic and delayed radiation effects on nuclear industry, epidemiological studies of, 21:24571
code of ethics for engineering, in relation to health and safety, 23:6453 (Y-OA-212)
consulting practice for health physics, discussion of feasibility of, 21:1751
contamination by radioactive materials, methods of dosimetry for determining, 22:51593
contamination of plutonium installation, measurement of, 24:50866
contamination of Savannah River, with transplutonium elements, 23:16317
contamination of, Geiger—Mueller detectors for beta particles and gamma radiation for monitoring, 22:25659(P)
decontamination of skin of, 22:31093
decontamination of, design of Mound Laboratory facility for medical, 25:54963 (CONF-710401-, pp 311-15)
decontamination of, methods for, 21:30823
decontamination procedures for reactor, guide to, 23:29544 (THAI-AEC-1(Rev.1))
deoxycytidinuria incidence among uranium mining, role of age in, 25:58145
description of SENA Power Reactor, during October to December 1967, 22:24975(R) (TID-24368)
directory of nuclear standards development committees in USA, 25:13469 (ORNL-NSIC-75(Rev.1))
dose calculations for LASL criticality excursion in 1946, blood-sodium and mockup analysis for revised, 22:27465 (LA-3861)
dosimetry of x-ray, using multifield individual photocassettes, 21:28452
duration of stay of fire fighting, in radiation areas, tables of, 25:37827
duties of radiation protection, at New South Wales University during 1968, 24:44518(R) (NP-18286)
duties of safety officer, in radiotherapy departments, 22:51641
education and training of nuclear engineering, at UKAEA, 24:9213
education and training of, for radioisotope handling and use, 24:31665
education in nuclear technology in Latin America, summary of, 25:54336 (A/CONF.49/P-755)
effects of errors of, on reliability of reactor components, 23:15656 (HN-194)
effects of pressurized suits on body temperature and physiology of, effects of muscular activity on, 25:32428 (CEA-N-1407)
efficiency of factory, effects of work environment on, 25:48368 (BDX-613-415)
electrical contact effects on, accidental, 21:10882(T) (ORNL-tr-1386)
emotional stability of nuclear industry, method using electric conductivity of skin for measurement of, 25:29531 (CEA-R-4156)
employment of radiation, medical judgement of suitability for, 23:43793
employment standards for, in industrial or medical nuclear installations, 24:34374
employment standards for, in industrial or medical nuclear installations in Germany, 24:34379
error rates for, data bank development for, 24:53062 (SC-R-70-4286)
errors by production, analysis of, 21:23800 (SC-R-67-1044)
erythrocyte function in uranium mining, activity of pentose phosphate pathway to determine, 24:50944
erythrocyte hemolysis in uranium mining, 24:14515
evacuation from Neutron Radiographic Facility at Idaho Nuclear Corporation, methods for improving safety of, 24:2680 (IN-1310, pp 38)
evaluation for radiation work, skin disease in, 23:4963
evaluation for radiation work, statistical normality for hematological, 23:29460 (RT/PROT-(68)17)
evaluation of health of, occupied in radioisotope laboratories, 21:10895
exposure criteria in cases of accidents in large nuclear plants, evaluation of, 23:2827
exposure to radioactive particles in air, correlation of air and fecal sampling for measurement of, 22:38264 (UCRL-18140, pp 37-55)
exposure to tritium, design and performance of photographic film dosimeters for determining, 22:8399
fallout shelter management, selection and recruitment of, 21:8778 (AD-629914)
fallout shelter manager's guide for, 21:10847 (AD-629926)
fallout shelter manager's guide for, 21:10851 (AD-629941)
fallout shelter manager's guide for, 21:10848 (AD-629935)
film badge service for, survey of, in New South Wales, 24:2670
fitness of reactor operator, use of electroencephalograph for determination of, 23:26147
functions in safe operation of reactors, quantitative method for analysis of, 23:28502 (AHSB(S)R-160)
handling in radiation accidents involving criticality, methods for, 24:7904
hazards analysis for Nuclear Auxiliary Power Systems, effects of mission characteristics on, 23:21534 (NP-17783)
hazards from inhalation of fission products released from irradiated fuel elements, 22:51572 (RD/B/N-1143)
hazards from laser-induced contamination of air, control of, 23:22295
hazards of internal contamination to laboratory and industrial, 22:23527
hazards to Czechoslovakian uranium chemical plant and mining, health education for prevention of, 25:42504
hazards to uranium mine, from dust inhalation, 25:37746 (BNWL-1551(Pt.2), pp 1-4)
hazards to uranium mining, 22:15002 (SC-M-67-2959)
hazards to uranium mining, review of epidemiological studies on, 24:32026
hazards to, from laser radiation, review of, 21:8954
health education for, in uranium industry and mining in Czechoslovakia, 24:50941
health hazards to, in storage center for radioactive waste at Hague, 25:57978
health of radio-wave, 24:2684
health status of UKAEA, relation of work environment to, 24:48473
hematological values for uranium mining, 24:27605
hemogram studies of uranium mining, 23:16427
hemogram studies of uranium mining, 25:26588

indices of health and clinical observations of, operating reactors, 21:8835
industrial skills of, utilization in post-attack civilian defense, 21:15818 (NP-16531)
inhalation hazards to uranium mining, testing in dogs and hamsters, 25:8623 (BNWL-SA-3419)
inhalation of aerosols and dusts of rare metals by, hazards from, 22:10160(T) (AEC-tr-6710)
inhalation of radon decay products by, in uranium mines, 22:19328(R) (COO-1500-5)
injuries of atomic energy, in privately owned and operated establishment in USA during 1968, 25:42498 (NP-18858)
instruction of reactor operation, lecture on, 23:4174 (RISO-M-809)
iodine-131 content of excrements and thyroid in laboratory, following accident in Korea, 24:700
iodine-131 monitoring of, at production plant, 23:14180
lead-210 accumulation by body of uranium mining, errors in previous conversion factors for calculating, 24:48547
lead-210 body burden of uranium mining, model for estimating radon-222 inhalation exposure from, 23:26788
lead-210 content of bones and urine of uranium mining, 23:50570 (PHS-999-RH-33, pp 97-107)
lead-210 content of bones of, in uranium mines in relation to inhalation of radon decay products, 22:31082
lead-210 content of uranium miners, method for determining, 23:22290 (NYO-3086-8, pp XI.1-13)
lead-210 content of uranium mining, 23:33698
lead-210 content of uranium mining, in relation to possible sources, 24:31976 (ANL-7489, pp 37-43)
lead-210 content of urine in uranium mining, methods for determining, 23:38581
lead-210 hazard to, in uranium mines, 21:26459
lead-210 hazards to, 21:26460
lead-210 uptake by bones of uranium mining, 24:17015
lead-210 uptake by uranium mining, following inhalation of radon-222, tracer study in baboons on, 25:42245(R) (NYO-3086-10(Vol.1))
legal, services of Foreign Office in atomic energy, 24:9852
licensing for operation of fuel reprocessing plants, 23:31405 (ORNL-TM-2573)
licensing of power reactor operator, use of reactor simulators for, 25:6212
licensing of U.S. power reactor operator, results of AEC examination for, 25:39214 (CONF-710416-, Paper 3)
licensing procedures and requirements for reactor operator, 24:49982
licensing requirements for nuclear power plant, 25:28725
licensing requirements for reactor operations, USAEC, 23:37423
lipid content of blood of uranium mining, effects of length of occupation on, 23:50360
lung cancer and respiratory diseases in uranium mining, in relation to concentration and particle size of inorganic and organic aerosols in mine atmosphere, incidence of, 24:48536 (BNWL-1307(Pt.2), pp 1-4)
lung cancer in uranium mining, experimental studies of synergistic effects of tobacco smoke on, 24:25558 (BNWL-SA-3027)
lung cancer in uranium mining, in Czechoslovakia, incidence of, 23:35762
lung cancer incidence in gold mining, in South Africa during 1960 to 1967, 25:52064 (A/CONF.49/P-659)
lung cancer incidence in uranium mining, review of, 22:45703
lung carcinomas in uranium mining, mechanisms of, 24:32027
lung diseases in uranium mining, 23:50570 (PHS-999-RH-33, pp 97-107)
lymphocyte abnormalities among uranium mining, development of lymphogram technique for determining, 23:38659
malignacies in lungs of uranium mining, synergistic effects of smoking on development of, 24:4638 (COO-1826-4)
management program for LITR, description of administrative, 22:25095 (ORNL-TM-1737)
medical care of, exposed to ionizing radiation, 23:12180
medical care of, following radiation accidents in France, programs for, 24:7902
medical care procedures for, following accidental exposure to external radiations, internal contamination, or skin contamination with radioactive materials, 25:42391
medical handling of power reactor, following accidents, 24:7908
medical histories of Hanford, self-administered method of obtaining, 25:41629 (BNWL-B-48)
medical programs for NRTS, 25:534 (IDO-12073, pp 18-24)
medical requirements for, at AERE, Harwell, assessment of, 25:4529 (AERE-R-6523)
medical, radiation dose to, from handling radioactive cadavers, 23:4965
microcythemia incidence in nuclear industry, 22:8634
monitoring at Goodyear Atomic Corporation, 21:24403(R) (GAT-R-397)
monitoring at nuclear facilities in Hungary, use of whole-body counter for, 21:26464
monitoring data for, exposed to uranium-235-enriched U_3O_8, 21:6501
monitoring for americium-241 and curium-242 after contamination accident at BR-2 reactor site, Mol, 25:37804 (EUR-4612, pp 631-46)
monitoring for internal exposure at JAERI, 25:42439
monitoring in Poland, evaluation of statistics of, 23:12113
monitoring in Poland, use of film dosimeters for, 23:12121
monitoring in radioisotope laboratories during 1963 to 1965, 21:20165 (CLOR-58/D)
monitoring of cyclotron, detection of beryllium-7, manganese-54, and zinc-65 during, 21:20236 (UCLA-12-612, pp 37-68)
monitoring of radiation, using whole-body counters, 24:27594 (CONF-690540-, pp 397-406)
monitoring of, performance of Teflon-imbedded lithium fluoride dosimeters for gamma and x radiation, 21:19893 (BNWL-339)
monitoring of, thermoluminescent dosimeters for fast-neutron, employing body-moderation, 21:4809
monitoring standards for, use of ICRP maximum permissible dose values for determining, 23:48078
morale and productivity of engineering, industrial management study of, 21:25761 (Y-1575)
mortality of Atomic Energy Authority, in United Kingdom in comparison to general population, 24:50946
mortuary, radiation dose to, from handling radioactive cadavers, 23:4965
neutron dose to, loading plutonium-239 billets in subcritical and critical arrays, neutron-to-gamma dose rate ratio measurements for determining, 23:11866 (UCRL-71328)
neutron dosimetry in, use of small proportional counters for, 22:43300 (AERE-PR/HPM-12)
nuclear engineering education for, review of developments in, 24:433
nuclear fuel management training for, description of Purdue University curriculum for, 24:423
occupational health programs for, at nuclear power facilities, 21:22435
organization for Phenix development, 23:45035
organization of reactor operation, lecture on, 23:4174 (RISO-M-809)
organizational structure of French C.E.A., 1967 summary of, 23:4500 (NP-17597, pp 167-75)
performance in nuclear installations, measures for improving, in relation to accidents, 24:50938 (CEA-CONF-1514)
performance in operational man—machine systems, field calibrated simulation of, 21:21835 (SC-R-67-1045)
performance of reactor operator, analysis and criteria for, 23:9121 (NYO-3288-10)
performance of, effect of human errors on, 21:38842 (SC-R-67-1150)
phosphorus accumulation in red blood cells of uranium mining, 25:26582
phosphorus content in erythrocytes of uranium mining, effects of starvation diet on, 24:17058
plutonium contamination of nuclear, development of Registry for medical data on, 23:24667
plutonium contamination of, removal of, 21:41456
plutonium content in tissues of Hanford, 21:36567 (BNWL-SA-1232)
plutonium content in tissues of, at Hanford, use of autopsies for determining, 21:6486 (BNWL-SA-918)
plutonium content of tissues in production plant, following inhalation and puncture wounds, calculation of percent maximum permissible body burden, 23:41307
plutonium excretion in urine of, following deposition in lungs, mathematical model for determining, 24:4547 (BNWL-1159, pp 30-5)
plutonium inhalation by, performance of installed and personal air samplers for monitoring of, 23:14172
plutonium uptake by, in USA, registry of data on, 25:6621 (BNWL-SA-3307)
plutonium uptake by, methods for estimation of radiation dose following, 24:7863
plutonium—americium contamination of commercial nuclear, problems in medical management of, 23:24656
plutonium-238 inhalation by, following glovebox explosion, estimation of long-term systemic burden from, 24:48546
plutonium-239 contamination of, review of treatment of, 25:16004 (RT/PROT-(70)10)
plutonium-239 ingestion or inhalation by, method for decontamination following, using DTPA, 24:50863 (CEA-CONF-1549)
plutonium-239 inhalation by, accidental, 24:44502
plutonium-239 monitoring in urine of, performance of solid-state detectors compared with nuclear track counting for, 21:14654
plutonium-239 removal from organs and skin of, methods for, 24:7941
plutonium-239 uptake by, treatment of, 24:7941
polonium-210 content in urine of uranium mine, relation of inhalation exposure to radon-222 daughters to, 24:50795(T) (ANL-Trans-847)
polonium-210 content of urine of uranium mining, 24:34371
polonium-210 excretion in urine of uranium mining, effects of bismuth-210 and polonium bone metabolism on, 25:32332
polonium-210 excretion in urine of uranium mining, calculation of, 25:24034
polonium-210 hazards to, 21:26460
preparedness in local post attack public health programs, evaluation of, 24:48581
problems of securing, for food preservation in Thailand, 23:16454 (THAI-AEC-9, pp 31-4)
program for prompt treatment of alpha-contaminated wounds of, at Karlsruhe Nuclear Research Center, 25:37782 (EUR-4612, pp 563-72)
program for prompt treatment of alpha-contaminated wounds of, at Alpha-Chemie und Metallurgie G.m.b.H, 25:37783 (EUR-4612, pp 573-83)
programs for handling medical problems following accidental radiation exposure, 24:7944
protactinium-231 contamination of laboratory, effects of DTPA on, 22:40514 (CONF-670965-2)
protection against contamination at Chinon reactor, 23:12116
protection against dusts, low temperatures, and x radiation, development of clothing for, 22:49341
protection against fallout contamination of civil and military, under conditions of war, 22:10757 (FOA-4-4491-24)
protection against hazards of tritiated water, 25:16195 (CEA-Bib-179)
protection against laser radiation injuries to, methods and standards for, 21:22421
protection against laser radiation, code of practice for, 21:16339 (NP-16327)
protection against radioactive dusts and gases, design of plastic suits for, 22:10765(T) (LB/G-2598)
protection against tritium inhalation or ingestion, design of clothing for, 25:24187 (CEA-N-1413)
protection from radiation, movable shielded cabin for, 22:47275(P)
protection in radiochemical processing plants, procedures for, 21:391
protection of biological research, against allergens, carcinogens, and infectious agents, 24:41114 (ORNL-TM-2854)
protection of Eurochemic reprocessing plant operating, methods for, 24:31560
protection of hot cell, design specifications for equipment for radiation, 24:31550
protection of Juelich hot cell, selection criteria for instrumentation for, 24:31654
protection of operating, against radiation accidents, 23:31794 (CONF-690317-4)
protection of operating, in Trombay, India, hot laboratories, equipment and methods for radiation, 24:31653
protection of, against injuries from electrical equipment, 21:10877 (ORNL-P-2656)
protection of, against respiratory hazards at Argonne National Laboratory, 21:1757
protection of, automatic air purifying respirator for, 25:10752 (CEA-N-1360)
protective suit for, in environment of carbon dioxide, high temperature, and tritium, 23:16309
qualifications for health and safety support in plutonium facility, 25:55204 (CONF-710401-, pp 267-79)
qualifications for power reactor operator, 24:11115
qualifications for research reactor, 25:54195 (ANCR-1019)
qualifications for survey of x-ray equipment, 23:43796 (DMRE-69-2)
qualifications for U.S. power and research reactor, AEC requirements for, 25:39213 (CONF-710416-, Paper 1)
radiation accidents involving accelerator, causes and protective measures in, 23:29538(T) (ORNL-tr-2056)
radiation accidents involving AEC, during 1943 to 1968, 23:43789 (TID-25128)
radiation accidents involving, review of causes and handling of, 23:50572 (PHS-999-RH-33, pp 153-6)
radiation close to, at KFA Juelich, methods for determining, 24:36763 (JUL-603-ST)
radiation contamination of cyclotron, relation between environmental conditions of working area and internal, 24:2682
radiation contamination of, by sealed sources, methods for monitoring of accidental, 21:26467
radiation damage to chromosomes of, β, γ, neutron, and x, 22:471
radiation detection in work area of, discussion on advantages and advantages of methods for, 21:18053
radiation dose and dose rate to skeleton in radium dial, following ingestion of radium-226, computer calculations of, 25:8669 (COO-2088-1)
radiation dose estimates for, following accidental exposure, value of binucleated lymphocytes and chromosome aberrations for γ, 23:50539
radiation dose for open cycle gas core rocket reactor, 24:33471
radiation dose measurements for Garigliano Power Reactor, during April to June 1969, 23:49515(R) (TID-25188)
radiation dose measurements for, use of luminescent detectors for, 21:34497
radiation dose monitoring for, at Kjeller Research Center, Norway, 22:16356 (KR-116)
radiation dose rate measurements for, use of luminescent detectors and Geiger-Mueller counters for, 21:30712
radiation dose rate to body and eyes of, handling canned uranium, 21:10863 (HW-59706)
radiation dose rate to fuel reprocessing, following fuel particle inhalation and skin contamination, correction factors for measuring true, 25:35140
radiation dose rates from plutonium to, 22:23084 (BNWL-SA-1644)
radiation dose received by atomic energy, in Egypt during 1962 through 1969, 25:26749 (NP-18732)
radiation dose received by, in BR-3 reactor excursion, 23:15690
radiation dose record-keeping and workmen's compensation coverage for, hearings before congressional Joint Committee on Atomic Energy on, 23:843
radiation dose records for, for use as guidelines in legal evidence, 23:31810
radiation dose records of nuclear, techno-legal aspects of development of, 22:38268 (UCRL-18140, pp 277-88)
radiation dose to accelerator, following exposure to charged particle beams, use of scintillation counting of induced activity in estimation of, 25:52073 (UCRL-20262)
radiation dose to accelerator, measurement of, using radiometric analysis of urine and whole-body counting, 23:45755
radiation dose to adult radiation, from internal strontium-90, revision of maximum permissible β, 23:38587
radiation dose to airport, from intransit radioactive materials, 25:11062
radiation dose to color television assembly and repair, x, 25:11063
radiation dose to color television equipment repair, x, 25:29512 (BRH/DEP-71-4)
radiation dose to dental, during radiography, 23:20248

radiation dose to eyes of, effects of working conditions on laser, 21:16427 (AD-638917)
radiation dose to hands, forearms, skin, organs, tissues, and whole-body of, maximum permissible, 25:19008 (NCRP-39)
radiation dose to hot cell, comparison of film badge and thermoluminescent dosimeters for measuring β, 25:35131
radiation dose to in 1968, at nuclear research center Juelich, use of film dosimeters and ionization chambers for determining, 24:36753 (JUL-603-ST, pp 101-8)
radiation dose to industrial radiography, γ, 22:45580
radiation dose to industrial, in Czechoslovakia, evaluation of, 22:40674
radiation dose to industrial, medical x, 23:29517
radiation dose to industrial, report of, 23:22316
radiation dose to Japanese, estimation of genetically significant, 25:17257 (NIRS-9, pp 1-14)
radiation dose to laboratory, over 10-year period, 21:32658 (UCRL-17573)
radiation dose to lungs of mining, calculation of permissible limits for radon daughter, 23:26787
radiation dose to lungs of uranium mining, design of dual crystal scintillation detector for in vivo monitoring of soft β and γ, 23:43775
radiation dose to lungs of uranium mining, radon decay product, 23:31773
radiation dose to lungs of, recommendations for maximum permissible plutonium-239, 25:6687(T) (ANL-Trans-864)
radiation dose to materials testing, from cesium-137 and selenium-75, 21:39427
radiation dose to microwave, permissible limits for, 21:39420
radiation dose to mining, method for measuring radon decay α, 24:23203
radiation dose to nuclear industry, standards for maximum permissible, 25:35154
radiation dose to nuclear, in Pakistan, average, 24:44497
radiation dose to ORNL, analysis of 1966, 21:45620 (ORNL-4146, pp 36-55)
radiation dose to radioactive materials handling, IRC recommendations for somatic, 25:2574
radiation dose to radium dial painting, in relation to frequency of chromosome aberrations in leukocytes, external γ, 22:28438
radiation dose to radium luminous dial repair, α and γ, 25:32435
radiation dose to railway station, from packages containing radioactive materials, 24:41888
radiation dose to reactor, following inhalation of radioactive aerosols, β, 23:38588
radiation dose to reactor, guide to maximum permissible, 23:29544 (THAI.-AEC-1(Rev.1))
radiation dose to reactor, in Canada during 1967, β and γ, 22:33806 (AECL-3063)
radiation dose to respiratory tract of uranium mining, γ, 23:29498 (COO-1500-12)
radiation dose to respiratory tract of uranium mining, from inhalation of radon daughters, calculation of exposure in working level months for, 24:17051
radiation dose to respiratory tract tissues of uranium mining, following inhalation of radon-222, method for calculation of α, 25:42394(R) (NYU-4256-1)
radiation dose to tissues of Eurochemic, following inhalation of plutonium-239, methods for estimation of, 25:37832 (EUR-4612, pp 259-71)
radiation dose to trachea of mining, from radium and radon, phantom study of absorbed α, 24:23204
radiation dose to truck driving, during transport of radioactive materials in Italy, 24:39511 (RT/PROT-(70)7)
radiation dose to United Kingdom, recommended ICRP maximum permissible, 23:24605 (AHSB(RP)R-78(3rd Ed.))
radiation dose to uranium mine, spectroscopic method for in vivo measurement of radon decay product γ, lead-210 for estimation of, 23:26786
radiation dose to uranium mining, from inhalation of radon decay products, performance of various alpha detection systems for measuring, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
radiation dose to uranium mining, from radon decay products, 24:9828(R) (PB-186358)
radiation dose to uranium mining, JCAE hearings on, during 1967, 23:9965
radiation dose to uranium mining, methods for calculation of, 23:6438 (NP-17667)
radiation dose to uranium mining, working level standards for radon daughter α, 23:31780
radiation dose to, at AECL sites during 1966, analysis of, 21:36561 (AECL-2678)
radiation dose to, at Japan Atomic Energy Research Institute during 1967, measurement of β and γ, 23:18022 (JAERI-5017, pp 60-9)
radiation dose to, at Karlsruhe nuclear center, use of phosphate-glass dosimeters for measuring, 24:23197
radiation dose to, at Oak Ridge National Laboratory during 1968, comparison of actual incidence and maximum permissible internal and whole-body, 23:41336(R) (ORNL-4423)
radiation dose to, at ORNL during 1969, report on external and internal, 24:48576(R) (ORNL-4563)
radiation dose to, at research reactors, γ and neutron, 22:6818
radiation dose to, at Richland Plutonium Reclamation facility, 21:6490 (ISO-SA-14)
radiation dose to, criteria for maximum permissible, 24:19326
radiation dose to, data from Pakistan film badge service for measurement of, 23:48055
radiation dose to, determination of maximum permissible, 22:38320
radiation dose to, determination of permissible γ, 22:45526
radiation dose to, determination of, by film monitoring service, 21:10871 (NP-16447)
radiation dose to, during 1960 to 1965 in United Kingdom, analysis of external, 23:16310
radiation dose to, during accidents, criteria for establishing emergency maximum permissible, 24:7890
radiation dose to, during examination of gastrointestinal tract, 24:719
radiation dose to, during fabrication of high-burnup plutonium, 22:43526 (ANL-7299, pp 114-19)
radiation dose to, during radiography, accidental x, 23:45739
radiation dose to, during radiotherapy of pituitary gland, strontium-90 β, 23:20230
radiation dose to, during reactor accident in Belgium in 1965, 24:34345
radiation dose to, during shipping of radioactive materials, 25:48840 (CONF-710801-(Vol.2), pp 552-63)
radiation dose to, during transport of strontium-90—yttrium-90 source, thermoluminescent dosimetric monitoring of β, 25:42444
radiation dose to, efficiency of instruments for measuring ionizing, 25:21716
radiation dose to, EURATOM determination of maximum permissible, 22:19330 (NP-17180)
radiation dose to, following accidental exposure to iridium-192 vehicle, 25:13466
radiation dose to, following accidental exposure, assessment of whole-body, 23:12110
radiation dose to, following accidental internal exposure to plutonium-239, 22:21552
radiation dose to, following accidents, biological and physical methods for measurement of, 24:7857
radiation dose to, following accidents, criteria for estimating external and internal, 24:7853
radiation dose to, following ingestion of radium-226, radiobiological indexes for calculation of, 24:46607 (ANL-7680)
radiation dose to, following inhalation of antimony-124, methods for measurement of beta and gamma, 24:7859
radiation dose to, following isotope inhalation, model for, 23:50461 (PHS-999-RH-33, pp 33-44)
radiation dose to, following plutonium-239 deposition in lungs, intestine, and skin, 24:29700 (UCRL-50639)
radiation dose to, following research reactor accident, methods for estimation of, 24:7858
radiation dose to, following rupture of cobalt-60 source, comparison of biological and photographic film dosimeters for measurement of γ, 24:48569
radiation dose to, from external and internal exposure, recommendations of ICRP for maximum, 23:6483
radiation dose to, from occupational exposure, maximum permissible, 23:50605
radiation dose to, from Project Palanquin, 24:39080 (PNE-911-F)
radiation dose to, from radioactive objects, method for estimation of, 25:54987
radiation dose to, guides and regulations regarding, 24:50934
radiation dose to, handling control rods at time of excursion of critical assembly for Vulcain project, 21:8127
radiation dose to, handling waste materials, 21:24434
radiation dose to, hauling underwater γ sources in swimming-pool reactors, calculation of, 21:22425
radiation dose to, history of development of maximum permissible, 23:12077 (ZFK-125)
radiation dose to, ICRP recommendations for maximum permissible, 22:28471
radiation dose to, in criticality accidents, use of manganese-activated $CaSO_4$ thermoluminescence dosimeter for recording γ and neutron, 25:21718
radiation dose to, in Egyptian monazite area, γ spectrometry of, 24:34339
radiation dose to, in graphite critical assembly accidents, γ and neutron, 21:3412
radiation dose to, in industry and laboratories in Poland, recommendations for protection against, 23:26802
radiation dose to, in industry, medicine, and research, 23:38570
radiation dose to, in industry, medicine, and research in Czechoslovakia, γ and x, 24:39499 (A-AC-82/G/L-1320)
radiation dose to, in krypton-xenon production plant, recommendations for protection against γ, 23:9953
radiation dose to, in nuclear installations, review of, 21:45640
radiation dose to, in nuclear power plants, 22:8536
radiation dose to, in plutonium industry, ICRP recommendations for maximum permissible plutonium-239 α and γ, 25:8674(T) (LF-tr-41, pp 199-220)
radiation dose to, in plutonium production centers, use of blood studies, excretion studies, and whole-body counting for measurement of, 22:49342
radiation dose to, in Poland in 1969, x, 25:21722
radiation dose to, in uranium mines, measurement of, 21:39409(T) (LA-tr-67-66)
radiation dose to, in Yugoslavia during 1962 to 1967, 25:52095
radiation dose to, legislation governing maximum permissible, in United Kingdom, 24:7894
radiation dose to, maximum permissible concentrations for fission product mixtures in air or water for, 24:46620 (AEET/HP/TH-15(Rev.))
radiation dose to, methods for determination of maximum permissible, 25:42454
radiation dose to, of nuclear laboratories in Canada during 1968, external β and γ and internal tritium β, 23:35722 (AECL-3112)
radiation dose to, of nuclear power plants, 24:50945
radiation dose to, operating heavy water reactors, β, 22:2503 (AECL-2756)
radiation dose to, operating reactors, 22:8623
radiation dose to, performance of chest-worn photographic film dosimeters for measurement of whole-body, 25:49172 (ARH-SA-87)
radiation dose to, radiation quantities and units for use in calculations of maximum permissible, 24:48563
radiation dose to, record form for evaluation and registration of, 21:36604
radiation dose to, responsibility of health physicists in estimation of, 22:8521 (CONF-670305-, pp 269-76)
radiation dose to, standards for laser, microwave, and x, 23:50608
radiation dose to, thermal neutron, 23:12114
radiation dose to, use of uranium content of urine as indicator of, 23:2827
radiation dose to, working with high-velocity electron tubes, measures for protection against x, 24:23226
radiation doses at Gundremmingen Power Reactor during January 1968, 23:52271(R) (TID-25212)
radiation doses at Gundremmingen Power Reactor during September 1968, 23:52279(R) (TID-25220)
radiation doses at Gundremmingen Power Reactor during November 1968, 23:52281(R) (TID-25222)
radiation doses at Gundremmingen Power Reactor during April 1968, 23:52274(R) (TID-25215)
radiation doses at Gundremmingen Power Reactor during August 1968, 23:52278(R) (TID-25219)
radiation doses at Gundremmingen Power Reactor during December 1968, 23:52282(R) (TID-25223)
radiation doses at Gundremmingen Power Reactor during February 1968, 23:52272(R) (TID-25213)
radiation doses at Gundremmingen Power Reactor during July 1968, 23:52277(R) (TID-25218)
radiation doses at Gundremmingen Power Reactor during June 1968, 23:52276(R) (TID-25217)
radiation doses at Gundremmingen Power Reactor during March 1968, 23:52273(R) (TID-25214)
radiation doses at Gundremmingen Power Reactor during May 1968, 23:52275(R) (TID-25216)
radiation doses at Gundremmingen Power Reactor during October 1968, 23:52280(R) (TID-25221)
radiation doses at Gundremmingen Power Reactor during June 1967, 23:52270 (TID-25199)
radiation doses during prophylactic examinations, maximum permissible, 21:8898
radiation doses for Gundermmingen Power Reactor, during March 1969, 23:49519 (TID-25203)
radiation doses for Gundremmingen Power Reactor, during November 1967, 23:49516 (TID-25200)
radiation doses from Gundremmingen Power Reactor during August 1969, 24:1955 (TID-25244)
radiation doses from Gundremmingen Power Reactor during July 1969, 24:1954 (TID-25243)
radiation doses received by EL-3 reactor, effect of atmospheric contamination by tritiated water vapor on, 23:19522 (CEA-CONF-1086)
radiation doses to coal mining, in Georgia, Soviet Union, natural background, 24:27604
radiation doses to Garigliano Power Reactor operating, measurement during October to December 1968 of, 23:31128 (TID-25078)
radiation doses to materials testing, from cesium-137, cobalt-60, and iridium-192, γ, 23:6468
radiation doses to ORNL, during 1967, 22:43307(R) (ORNL-4286)
radiation doses to radiochemical plant, 25:37819 (EUR-4612, pp 403-18)
radiation doses to, determination of permissible, 21:26468
radiation doses to, in ultrahigh frequency electromagnetic fields, measurement of, 24:27591
radiation doses to, in United Kingdom, system for registration of excessive, 24:7907
radiation doses to, need for dose records and medical supervision in cases of low level, 23:33711
radiation doses to, use of glass and photographic film dosimeters for measuring low, 22:6657
radiation dosimetry for AB Atomenergi, during 1966, 22:31057 (AE-312)
radiation dosimetry for individual, photographic method for ionizing, 24:34325
radiation dosimetry for industrial, in Czechoslovakia during 1966, use of film badges for γ and x, 24:6041
radiation dosimetry for, design and performance of silver-activated phosphate glass radiophotoluminescent dosimeter for, 22:8394
radiation dosimetry for, design of thermoluminescent dosimeters for, 23:33701(R) (AECL-3284)
radiation dosimetry for, evaluation of use of film badges for γ and x, 24:25490
radiation dosimetry for, methods for compensating for background during, 25:46851
radiation dosimetry for, performance of LiF-Teflon disc thermoluminescent dosimeters for, 25:49191
radiation dosimetry for, survey of developments in fast, intermediate, and thermal neutron, 24:25478 (BNWL-1340)
radiation dosimetry for, use of dielectric track detectors for rapid neutron, 24:41874 (AECL-3430, pp 1-3)
radiation dosimetry for, use of nuclear track registration in solid material in neutron, 22:49348
radiation dosimetry for, use of phosphorus and sodium activation in hair and tissues for neutron, 24:21155 (CEA-R-3884)
radiation dosimetry in radioisotope and x-ray, in New South Wales, use of film badges for, 24:12071
radiation dosimetry in uranium processing, comparison of gamma spectrometry and urinalysis methods for uranium-234 and uranium-235 γ, 23:24654
radiation dosimetry in wounds of, following plutonium contamination, 23:14188
radiation dosimetry in, effects of exchange interval of films on, 22:28490
radiation dosimetry in, following criticality accidents, use of tissue-equivalent phantoms for γ and fast neutron, 25:11057
radiation dosimetry in, following reactor accident, mockup for, 23:14169
radiation dosimetry in, performance of ionization chambers, photographic film, and photoluminescent glass detectors for, 22:21519

radiation dosimetry in, performance of photographic film detectors for, 22:21516
radiation dosimetry in, performance of photoluminescent detectors for, 22:21515
radiation dosimetry in, use of activated calcium-49 for neutron, 24:4619 (BNWL-1159, pp 3-6)
radiation dosimetry in, using etched fission tracks in plastic foils, neutron, 23:31751 (NP-17848)
radiation dosimetry methods for, at Boris Kidric Institute, 25:58018
radiation dosimetry methods for, in large-scale nuclear emergencies, 23:20187 (CONF-680507-, pp 175-86)
radiation dosimetry of accelerator, 22:38328
radiation dosimetry of nuclear, at Bologna Health Physics Laboratory, 23:29521
radiation dosimetry of radiological, in Finland during 1965 to 1967, 23:29504 (SFL-A-11)
radiation dosimetry of respiratory tract of uranium mining, radon and radon decay product γ, 24:7840
radiation dosimetry of skin of laboratory, use of ring-type thermoluminescent dosimeter for β or γ, 22:45558
radiation dosimetry of synchrocyclotron, 22:21529
radiation dosimetry of, accuracy of film badges for β, γ, and x, 21:14665
radiation dosimetry of, at AB Atomenergi in 1968, γ and neutron, 24:2652 (AE-369)
radiation dosimetry of, computer programs for whole-body counters for, 25:40 (IDO-12073, pp 28-36)
radiation dosimetry of, conference on problems in, 23:45758
radiation dosimetry of, evaluation of methods in, 24:9830
radiation dosimetry of, following accidental exposure, use of phantom for cesium-137 γ, 23:12059 (AHSB(RP)R-85)
radiation dosimetry of, following exposure to high doses, use of area and personnel dosimeters and clinical evaluation for, 22:21524
radiation dosimetry of, following exposure to low doses, performance of dosimeters for, 22:21524
radiation dosimetry of, following neutron release accident, use of ^{32}S(n,p)^{32}P reactions in hair and nails for rapid fast neutron, 23:933(R) (NIRS-6)
radiation dosimetry of, in Belgium, 22:21518
radiation dosimetry of, in Sweden during 1965, 21:10854 (AE-253)
radiation dosimetry of, in waste processing, 21:14305
radiation dosimetry of, involved in accidents, use of activation analysis for, 21:12829 (CERN-66-34)
radiation dosimetry of, methods based on dose absorbed by organs in relation to time, 22:21511
radiation dosimetry of, methods for, 21:28426 (ANL-7291)
radiation dosimetry of, methods for γ and x, 22:21512
radiation dosimetry of, methods for testing, 24:4637
radiation dosimetry of, performance of photographic film detectors for β, γ, and x, 22:21513
radiation dosimetry of, performance of photographic film detectors for γ and x, 22:21523
radiation dosimetry of, performance of photographic film and photoluminescent glass detectors for, 22:21520
radiation dosimetry of, performance of thermoluminescent detectors for, 22:21514
radiation dosimetry of, performance of thermoluminescent detectors for partial-body and whole-body β, γ, and x, 22:21526
radiation dosimetry of, program at AB Atomenergi for, during 1967, 23:12058 (AE-342)
radiation dosimetry of, programs at NRTS, 25:522 (IDO-12073, pp 12-17)
radiation dosimetry of, use of nuclear emulsions for fast neutron, 22:21530
radiation dosimetry of, use of photographic film dosimeters for, in Sweden, 22:21517
radiation dosimetry program for, in Turkey from 1962 to 1969, 25:35135 (CNAEM-77)
radiation effects on adrenal glands in chronically exposed, in comparison to other occupational diseases, 24:48578
radiation effects on bactericidal capacity of serum of, accidental whole-body x, 23:35664 (ORAU-107, pp 61-5)
radiation effects on blood cell counts of, use in monitoring, 21:16360
radiation effects on blood coagulation in uranium industry, chronic, low-dose, 25:44913
radiation effects on blood of, following occupational exposure, effects of time on, 22:33966
radiation effects on bone marrow and blood of, microwave, 22:38462
radiation effects on cardiopulmonary function in uranium mining, α, 24:27567
radiation effects on chromosomes and hematopoietic system in, use of, for dosimetry following accidents, 24:7857
radiation effects on chromosomes of, at ENEL laboratory, ionizing, 23:12057
radiation effects on circulatory system of microwave, 23:50889(T) (JPRS-48481)
radiation effects on circulatory system of, microwave, 23:5029
radiation effects on content of Howell—Jolly bodies in normoblasts of bone marrow in uranium mining, low dose γ, 23:48250
radiation effects on count of leucocytes in, in relation to cell count, 23:29854
radiation effects on count of leukocytes in peripheral blood of, 23:6596 (AERE-R-5766)
radiation effects on cysteic acid content of fingernails of uranium mining, methods for determining, 25:13369
radiation effects on cytogenetic parameters in, low-dose ionizing, 24:46597(T) (LIB/Trans-263)
radiation effects on Czechoslovakian mining, history of, 24:44612
radiation effects on electrocardiogram and nervous system of, microwave, 22:33965
radiation effects on electroencephalograph of, chronic ionizing, 23:31971 (A-AC.82/G/L-1264, pp 63-72)
radiation effects on enzyme activity in erythrocytes of uranium mining, 25:24451
radiation effects on eyes and skin of, protective measures against laser, 23:35917
radiation effects on eyes of reactor, 22:8623
radiation effects on eyes of, at short wave transmitters, 23:38875
radiation effects on eyes of, design of safety goggles for protection against laser, 24:21182
radiation effects on eyes of, γ, neutron, and x, 24:23222(T) (AEC-tr-7133)
radiation effects on fatigability in, effects of neurotic tendencies on low dose, 24:23225
radiation effects on female medical x-ray, x, 24:25369(R) (COO-1630-22)
radiation effects on fertility and reproductive physiology of female uranium mining, α, β, and γ, 21:41491
radiation effects on function of adrenal cortex, pituitary gland, and thyroid gland in radiological, chronic ionizing, 23:43901
radiation effects on function of olfactory analyzer and upper respiratory tract in nuclear, 24:46680
radiation effects on gonads of hospital, during therapy procedures for hemangiomas in human infants, methods for protection against strontium-90 β, 24:6044
radiation effects on hands of accelerator, following accidental exposure, electron, 23:16429
radiation effects on hands of, during dental radiography, pathological x, 22:28486
radiation effects on hands of, from Japanese electron microscope, promethium-147 β, 24:894
radiation effects on hematopoiesis in, effects of dose on chronic ionizing, 23:5031(T) (AEC-tr-6966)
radiation effects on hematopoiesis in, handling fluorescent materials, low-dose ionizing, 24:9837
radiation effects on immune reactions in, effects of chronic exposure on, 22:21430
radiation effects on incidence of lung cancer in mining, effects of dose on, 23:5045
radiation effects on incidence of lung cancer in uranium mining, synergistic effects of tobacco smoking on ionizing, 24:9801 (CONF-690303-, pp 223-30)
radiation effects on industrial and laboratory, 23:22331
radiation effects on industrial radiography, protective effects of monitoring and shielding materials against γ, 23:43791
radiation effects on industrial, protective measures against x, 22:51592
radiation effects on industrial, review of accidental, 22:8518 (CONF-670305-, pp 143-54)
radiation effects on kidney function in, review of x, 24:25581
radiation effects on laboratory, diagnosis of ionizing, 22:45722
radiation effects on laboratory, effects of chronic exposure on, 21:32658 (UCRL-17573)
radiation effects on lungs of, following inhalation of radioisotopes, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
radiation effects on lymphocyte count of, working with radioactive materials in Soviet Union, 25:44950
radiation effects on lymphocytes in, of uranium mines, statistical study of, 23:50921
radiation effects on methemoglobin reduction in erythrocytes in uranium mining, 25:47017
radiation effects on microflora populations of accelerator, following accidental whole-body exposure, x, 23:35944 (ORAU-107, pp 52-9)
radiation effects on military, command guidance for, 22:49602
radiation effects on morphology of lymphocytes of cyclotron, 25:44950
radiation effects on mortality of uranium, in comparison to nonuranium workers, 24:41894 (Y-1739)
radiation effects on motor function in, electromyographic analysis of, 22:38204
radiation effects on muscles of, tests for, 23:29816 (A-AC.82/G/L-1264(Add.1), pp 15-29)
radiation effects on natural immunity of, effects of dose on infrared, 24:50943
radiation effects on nervous system of microwave, 21:39488(T) (X-67-11855)
radiation effects on nervous system of, following occupational exposure, review of ionizing, 23:29886
radiation effects on nervous system of, methods for study of asthenia from ionizing, 23:29817 (A-AC.82/G/L-1264(Add.1), pp 30-43)
radiation effects on nonspecific immunological reactivity in, working with ionizing radiation, 21:3423
radiation effects on number of normoblasts containing Howell-Jolly bodies in bone marrow of mining, exposed to radioactive materials, 23:43895
radiation effects on operators of radar equipment, 21:22508
radiation effects on peripheral blood of industrial, microwave, 23:6604
radiation effects on phagocytic activity of neutrophil leukocytes of nuclear, chronic ionizing, 22:40896
radiation effects on physiology of hematopoietic system in, chronic low-dose ionizing, 24:9956
radiation effects on physiology of muscles of, chronic ionizing, 23:29813 (A-AC-82/G/L-1255)
radiation effects on physiology of radio and television, microwave, 22:28695
radiation effects on radar, protection against VHF electromagnetic, 23:29555
radiation effects on radioisotope-exposed, methods for determining, 23:50576
radiation effects on radiological, chronic β, γ, neutron, and x, 24:903
radiation effects on reactor, following accidental exposure at Vinca "Zero Power" reactor, nuclear hematological and radiobiological data on, 24:48716
radiation effects on results of thromboelastographic examinations among uranium mining, chronic, 25:58144
radiation effects on secretion of adrenaline and noradrenaline in radiation, ionizing, 24:6054
radiation effects on skin of electrowelder, uv, 23:18126
radiation effects on skin of, following professional exposure, legal aspects of carcinogenic infrared and ultraviolet, 24:41895
radiation effects on skin of, protection against laser, 23:29864
radiation effects on sperm in, occupationally exposed to ionizing radiation, 21:1809
radiation effects on titer of bacterial agglutinins in serum of, following accidental exposure, whole-body x, 23:35663 (ORAU-107, pp 59-61)
radiation effects on uranium mining, in Czechoslovakia, evaluation of hemograms for study of, 23:43794
radiation effects on uranium mining, in relation to working years, thromboelastographic studies on, 25:39946
radiation effects on veterinary, during diagnostic procedures for horses, protective measures against hand and whole-body, 23:41334
radiation effects on, at Lawrence Radiation Laboratory, hematological study of routine, 22:49504
radiation effects on, code of practice for protection of laser, 21:43392
radiation effects on, following accidental exposure, methods for evaluation of, 24:7909
radiation effects on, following accidental exposure, 24:7882
radiation effects on, following accidental exposure, organization of facilities for treatment of, 23:858
radiation effects on, following nuclear excavation, recommendations for protection against, 23:50561
radiation effects on, in high-illumination installations, threshholds for pathological infrared, light, thermal, and uv, 23:10105
radiation effects on, in luminous paint factories, regulations for protection against, 22:23559
radiation effects on, in luminous paint factory following chronic inhalation of tritium gas, β, 24:19285(T) (CONF-680657-2)
radiation effects on, in nuclear industries in East Germany, regulation for protection against, 23:31808 (SZS-2/69)
radiation effects on, in nuclear industry, methods for evaluation of γ and neutron, 22:31268
radiation effects on, in nuclear installations in People's Democratic Republic of Germany, effects of age and type of installation on, 23:35760(T) (ORNL-tr-2151)
radiation effects on, legislation for medical supervision of, 22:38283
radiation effects on, medical supervision following, 25:4523
radiation effects on, methods and standards for protection against laser, 21:43383
radiation effects on, methods for protection against, 25:4524
radiation effects on, of uranium mines, 24:34362
radiation effects on, protective measures against microwave, 23:29541
radiation effects on, protective measures against very high frequency radar, 23:29865
radiation effects on, standards for medical evaluations of, following occupational exposure, 23:4924(T) (AEC-tr-6964)
radiation effects on, standards for protection against laser, 21:43384
radiation effects on, standards for protection against laser, 21:43385
radiation effects on, standards for protection against β and γ, 22:40720
radiation effects on, variables affecting microwave, 22:21585
radiation exposure at NRTS during reactor testing, review of, 23:13551
radiation exposure control for reactor, budget measurement and analysis program for, 25:51122
radiation exposure doses to, from film badge monitoring data, Canada 1964 and 1965, 23:4929 (NP-17515)
radiation exposure during uranium mining, hearings before subcommittee of congressional Joint Committee on Atomic Energy on, 23:841
radiation exposure incidents during December 1969 to January 1970, 24:22376
radiation exposure incidents in U. S. during February to March 1970, 24:31034
radiation exposure limits for nuclear powered space vehicle, 25:51204
radiation exposure of operating, during fabrication of FFTF fuel, 22:280 (BNWL-SA-1388, pp 12.1-15)
radiation exposure of uranium mining, hearings before congressional committee on, 22:51668
radiation exposure of uranium mining, standards for maximum permissible in U.S.A, 23:50607
radiation exposure of, during accidents in UK during 1968, 24:7894
radiation exposure of, during accidents in USAEC installations since 1960, review of, 24:7895
radiation exposure of, permissible limits for, 21:32629 (ANS-SD-4, pp 11-17)
radiation exposure record system for legal and technical applications, development of, 23:24665
radiation exposure record systems for, standards for, 25:29519
radiation exposures for Gundremmingen Power Reactor, during January 1970, 24:18510(R) (TID-25365)
radiation hazards from radioactive luminous paints during manufacture and storage of watches, 23:50559
radiation hazards to airport, during handling of radioactive materials, 25:24192
radiation hazards to beryllium fabrication, air sampling methods for determination of, 22:43302 (CONF-671063-1)

radiation hazards to dental, during radiography, measures for reducing x, 24:34372
radiation hazards to dental, role of head stomatologist in prevention of x, 23:38605
radiation hazards to engineering and industrial, using radioisotopes, insurance against and legal aspects of, 23:24607 (CONF-670649-2)
radiation hazards to eyes and skin of, evaluation of laser, 24:12099
radiation hazards to eyes of industrial, controls and protective programs for reducing γ, infrared, microwave, radio wave, uv, and x, 24:46619
radiation hazards to eyes of industrial, protection against sources of, 24:44520
radiation hazards to eyes of, analysis of laser, 23:4946
radiation hazards to eyes of, commercial availability of plastic films for protection against laser, 24:21183
radiation hazards to eyes of, methods for reducing helium and neon laser, 24:50931
radiation hazards to eyes of, protection problems in laser, 23:14174
radiation hazards to fire fighting, in nuclear installations, design of protective clothing for reducing, 25:37827
radiation hazards to hands of fishing, following liquid radioactive waste disposal in seawater, 25:46806 (JAERI-13710)
radiation hazards to industrial and medical, protection against, 23:50573 (PHS-999-RH-33, pp 157-9)
radiation hazards to industrial, Australian regulations for protection against, 25:26738
radiation hazards to industrial, from cesium-137 radiography, γ, 22:43406
radiation hazards to industrial, from electronic equipment, health programs and survey techniques for limiting microwave, 24:41899
radiation hazards to industrial, laser, 23:22294
radiation hazards to industrial, medical, and research, role of federal law in establishing standards for protection against laser, 24:21201
radiation hazards to inexperienced, from x-ray equipment, 25:18971
radiation hazards to laser, 24:21191
radiation hazards to laser, recommendations for exposure standards limiting laser, 24:21183
radiation hazards to laser, recommendations of conference on laser, 24:21196
radiation hazards to luminous dial painting, survey of tritium, 24:21106
radiation hazards to lungs of, following inhalation of radioisotopes, effects of biological and physical half-life, chemical and physical form, and quantity inhaled on, 24:50864(T) (LF-tr-43)
radiation hazards to medical, operating Luch-1 machine, measures for protection against γ, 24:25498
radiation hazards to metal melting or welding, electron beam, 24:41861
radiation hazards to microwave, review of, 25:4708 (UR-49-1256)
radiation hazards to neutron generator, from tritium contamination of pump oil, β, 24:6030
radiation hazards to nuclear installation, evaluation of, 25:32434
radiation hazards to nuclear, role of industrial hygienist in evaluating and controlling protection practices and standards against electromagnetic and sonic, 24:41898
radiation hazards to oil well logging, protective measures against, 21:30810
radiation hazards to oil well logging, using neutron radiometric gages, 22:28489
radiation hazards to plutonium handling, review on factors in controlling, 22:8333
radiation hazards to professionally exposed, in Germany during 1967, effects of age and type of installation on, use of film badges for determining, 24:21186 (SZS-10/69)
radiation hazards to radar, 22:40718
radiation hazards to radar, from chronic exposure, microwave, 23:33900
radiation hazards to radar, protection against, 22:23512(T) (LA-tr-68-12)
radiation hazards to radar, standards for protection against, 21:18135
radiation hazards to radioactive materials handling, criteria for protection against, 25:2572
radiation hazards to radioactive materials handling, criteria for protection against, 25:2573
radiation hazards to radiological, manual on technical problems of, 24:7868 (STI/PUB-201)
radiation hazards to reactor fuel processing, from inhalation of americium-241 or plutonium-241, 25:37818 (EUR-4612, pp 363-82)
radiation hazards to roentgenologists, 23:20291
radiation hazards to uranium mining, effects of foods and radioprotective substances on reduction of, 25:42510
radiation hazards to uranium mining, erythrocyte electrokinetic potential measurements on, 25:24146
radiation hazards to uranium mining, from inhalation of radioactive materials, 25:39937(T) (AEC-tr-7229)
radiation hazards to uranium mining, methods for protection against radon and radon decay product α, 25:11085
radiation hazards to uranium mining, protective measures against external and inhaled, 23:50571 (PHS-999-RH-33, pp 108-11)
radiation hazards to uranium mining, statistical survey of, 24:44523
radiation hazards to, at Goodyear Atomic Corporation during 1969, progress report on programs and services or controlling and reducing, 25:8692(R) (GAT-627)
radiation hazards to, at Karlsruhe nuclear center, evaluation of, for employment eligibility, 24:34376
radiation hazards to, at military nuclear establishment in Pisa, Italy, statistical analysis of medical judgments regarding, 25:13468
radiation hazards to, at universities, health physics measures for reducing, 24:34375
radiation hazards to, conference on laser, 24:21193
radiation hazards to, data recording systems for evaluating accidental, 21:36565 (BNWL-SA-963)
radiation hazards to, during fabrication of radioactive lightning rods, 24:21179
radiation hazards to, during handling of small sealed high-activity radiation sources, 23:33733
radiation hazards to, during stripping of radium dials, method for control of α and γ, 23:43749 (PHS-999-RH-36)
radiation hazards to, during use in industry, safety procedures against laser, 24:21194
radiation hazards to, Euratom regulations regarding, 24:734
radiation hazards to, following plutonium contamination of large areas, estimation of, 24:29738 (NP-18208)
radiation hazards to, from electronic equipment and radioactive materials, survey of role of federal agencies in establishing or enforcing safety standards for control of, 25:16202 (BRH/DEP-70-28)
radiation hazards to, from handling of radiation sources and radioisotopes, 22:12895 (AED-C-16-03-I)
radiation hazards to, from industrial and medical equipment, regulations for protection against, 25:18973
radiation hazards to, from inhalation of polonium-218, determination of diffusion coefficient in relation to, 22:31092
radiation hazards to, from ovens in food-vending establishments, microwave, 22:33831
radiation hazards to, from plutonium-239 in air, 25:42488
radiation hazards to, from waste disposal, 23:12104
radiation hazards to, in Germany during 1968, effects of age and type of installation on, use of film badges for determining, 24:21187 (SZS-12/69)
radiation hazards to, in industrial atmosphere, correlation of biological and statistical evaluation of, 25:24181
radiation hazards to, in nondestructive testing, review of characteristics, criteria, and requirements for protection against, 24:44521
radiation hazards to, in nuclear industries and uranium mines, protective measures against, 25:26783
radiation hazards to, in radium dial painting, 22:23545
radiation hazards to, in research institutions and luminescent paint plants, methods for reducing, 24:23183 (NP-18122, pp 105-25)
radiation hazards to, in Roumania, standards for protection against, 22:33832
radiation hazards to, laser, 24:50903
radiation hazards to, of atomic energy programs, proposal of advisory council to consider, 23:26765
radiation hazards to, of nuclear power plants in Soviet Union, procedures for reducing, 24:50945
radiation hazards to, of Project Gasbuggy, on-site safety and surveillance programs for protection against, 24:23224 (SWRHL-82, pp 460-77)
radiation hazards to, of teletherapy unit, dosimetry studies for evaluating cobalt-60 γ, 25:11070
radiation hazards to, of uranium mines, radon, 25:16120
radiation hazards to, program for protection against laser, 23:50604
radiation hazards to, protection against, 21:28639
radiation hazards to, quantitation of near-field microwave, 24:51079 (NBS-TN-391)
radiation hazards to, review of laser, 24:25499
radiation hazards to, review of microwave, 23:50577
radiation hazards to, use of pre-employment examinations for assessing, 23:31803
radiation hazards to, using analytical equipment, recommendations for control of x, 23:31815
radiation hazards to, working with contaminated tools, method for reducing, using paraffin oil, 24:27578 (EIR-176)
radiation hazards to, working with non-ionizing radiations, 24:34716 (CONF-690335, pp 13-25)
radiation injuries in USA, legislation related to, compensation for, 25:8697
radiation injuries in, methods for detection of, 21:36610
radiation injuries in, methods for treatment of acute, 24:7943
radiation injuries of nuclear energy, accidental, 25:8661 (JAERI-4052)
radiation injuries of, legal, medical, psychological, and social aspects of, 24:8013
radiation injuries of, methods for treatment of, 24:7883
radiation injuries of, methods for treatment of sublethal, 24:7858
radiation injuries to eyes of, protection against laser, 24:2685
radiation injuries to fingers of, during therapy, cobalt-60 γ, 24:718
radiation injuries to hands of, handling cobalt-60 granules, γ, 24:23227
radiation injuries to nuclear industry, emergency planning and medical facilities for treatment of, 25:46874
radiation injuries to nuclear, first aid treatment for, 25:11109
radiation injuries to reactor, following accidental exposure, clinical observations of, 25:533
radiation injuries to reactor, following accidents, installation for treatment of, 22:36270
radiation injuries to, from nuclear accidents, comparison of dosimetry, clinical aspects, and therapy of, 25:19012 (CEA-CONF-1695)
radiation injuries to, legal aspects of, 22:36271
radiation injuries to, legal aspects of adjudication of workman's compensation claims for, 23:31816
radiation injuries to, legal aspects of, in Belgium and France, 23:41340
radiation injuries to, medical exemptions due to, 21:18073 (SZS-8/66)
radiation injuries to, statutes of limitations and workmen's compensation laws on, 24:29771 (DMRE-69-3, pp 328-48)
radiation injuries to, workmen's compensation for, 24:29763 (DMRE-69-3, pp 192-200)
radiation monitoring at National Reactor Testing Station, performance of mobile medical unit and whole-body counter for, 25:49192
radiation monitoring equipment for, evaluation of, 24:36764 (JUL-603-ST, pp 153-6)
radiation monitoring for, design and operation of background-compensated equipment for beta and gamma, 21:26153 (SC-TM-67-268)
radiation monitoring in, performance of spectrometer for carbon-14 and tritium β, 22:28494
radiation monitoring methods for, in Finland, 23:29504 (SFL-A-11)
radiation monitoring of hands of, handling radioisotopes, α and β, 22:45562
radiation monitoring of reactor, use of whole-body counting techniques for, 21:26432
radiation monitoring of uranium mining, performance of thermoluminescent dosimeters for, 23:43755 (COO-1500-16)
radiation monitoring of, analysis of external, 23:4966
radiation monitoring of, at CERN accelerators, analysis of, 23:14181
radiation monitoring of, at CRNL during 1969, results of routine, 24:39425(R) (AECL-3565)
radiation monitoring of, at Goodyear Atomic Corporation during 1968, 23:45772 (GAT-R-517)
radiation monitoring of, at Harvard, 21:36611
radiation monitoring of, at JAERI during 1969 and 1970, results of routine, 25:8693(R) (JAERI-5025)
radiation monitoring of, at JAERI during April 1965 to April 1966, 21:36575(R) (JAERI-5015)
radiation monitoring of, at ORNL during 1966, 21:45623 (ORNL-4146, pp 73-7)
radiation monitoring of, counting time and sorting index for whole-body, 25:32423
radiation monitoring of, design and operation of semi-automatic equipment for whole-body, 24:31551
radiation monitoring of, economic gains from advancements in, 25:51121
radiation monitoring of, evaluation of dosimeters for, 25:52082
radiation monitoring of, evaluation of film badge services in, 21:36578 (NP-16866)
radiation monitoring of, evaluation of instruments for, 24:25488
radiation monitoring of, film badges for, 23:48069
radiation monitoring of, following accidents, methods for, 24:7854
radiation monitoring of, following inhalation of uranium dusts, effectiveness of urine analysis and whole-body counting for, 24:7852
radiation monitoring of, for internally deposited radioisotopes, design of mobile whole-body counter for, 23:31758
radiation monitoring of, ICRP recommendations on, 25:42474
radiation monitoring of, in German Democratic Republic, 1963 to 1965, 21:28492
radiation monitoring of, in German Democratic Republic during 1966, 23:29539 (SZS-20/68)
radiation monitoring of, in Israel, ionizing, 24:11928 (IA-1190, pp 235-56)
radiation monitoring of, in nuclear industries, 21:36612
radiation monitoring of, in radiography departments, value of film badges for, 23:45738
radiation monitoring of, in uranium processing plant, comparison of methods for, 21:39408 (Y-KB-77)
radiation monitoring of, legislation in Illinois for, 21:6536
radiation monitoring of, legislation of State of Illinois on employer's responsibility for, 24:19327
radiation monitoring of, ophthalmologic method for laser, 24:6050
radiation monitoring of, performance of photographic film dosimeters for, 22:51581
radiation monitoring of, performance of photographic film dosimeters for, 25:42442
radiation monitoring of, prediction of film fading for, using neutron spectrum, 24:2664
radiation monitoring of, recommendations of ICRP committee IV on, 24:31998
radiation monitoring programs for AB Atomenergi, Sweden, during 1969, 25:42392 (AE-423)
radiation monitoring programs for nuclear, exposed to airborne plutonium particulates, routine environmental and individual, 24:44519
radiation monitoring programs for, in New Zealand, 25:8675(R) (NP-18529)
radiation monitoring with film detectors, analysis of Polish, 21:26455
radiation monitoring, uranium mining, using whole-body counters, 23:29495 (BARC-389)
radiation protection against radioactive gases, effectiveness of gas masks, protective clothing, and respirators for, 24:7866
radiation protection at Italian nuclear power plants, 25:53973 (A/CONF.49/P-191)
radiation protection at Tokai uranium ore processing plant, 21:20187(T) (NSJ-tr-66)
radiation protection chart for nuclear, development and evaluation of uniform, 25:46872
radiation protection during calibration of monitoring film, method for, 21:20221
radiation protection during mass labeling of fish, 25:21727
radiation protection for hot laboratory, manual on, 24:7867 (STI/PUB-169)
radiation protection for industrial, handling radioisotopes, 25:13467
radiation protection for power reactor, standards for, 22:48707
radiation protection for uranium mining, Czechoslovakia standards for, 25:35152
radiation protection for, during handling and storage of cement containing cesium-137 and strontium-90, 25:35148

radiation protection for, in electromagnetic fields, methods for, 24:27595
radiation protection for, of nuclear space vehicles, 21:4404
radiation protection guide for laser, 24:39510 (NP-18246)
radiation protection in contaminated environments, methods for, 25:24186 (CEA-N-1408(3))
radiation protection in postattack environment, use of drugs and partial-body lead shielding for, 21:34658 (USNRDL-TR-67-39)
radiation protection manual for industrial, part 1 of ILO, 25:42458
radiation protection manual for industrial, part 2 of ILO, 25:42459
radiation protection manual for industrial, part 3 of ILO, 25:42460
radiation protection manual for industrial, part 4 of ILO, 25:42461
radiation protection manual for industrial, part 5 of ILO, 25:42462
radiation protection manual for radioactive ore mining and milling, part 6 of ILO, 25:42463
radiation protection measures for fire fighting, following nuclear accidents, 25:35149
radiation protection methods for cyclotron, 25:26775
radiation protection methods for handling and use of sealed and unsealed radiation sources by industrial, 23:43788
radiation protection methods for industrial, performance of German, 23:6463
radiation protection methods for nuclear industry, conference on, 25:35130
radiation protection methods for uranium enrichment, γ, 25:42379
radiation protection methods for, during radiography of small animals, 23:26812
radiation protection methods for, operating lasers as a microsurgical tool, review of, 21:24651
radiation protection of accelerator, standards for, 24:44515 (CONF-691101-, pp 21-30)
radiation protection of atomic energy, in Canada, 23:50569 (PHS-999-RH-33, pp 87-96)
radiation protection of boiler, during use of γ radiometric pressure gages, 22:45579
radiation protection of dental, recommendations of subcommittee on x, 23:35804
radiation protection of electron microscopy, recommendations for, 24:21192
radiation protection of eyes of industrial, 22:40675
radiation protection of eyes of, evaluation of methods for laser, 23:22296
radiation protection of factory, handling promethium-147 and tritium, 25:16204
radiation protection of female, development of lead impregnated vinyl foundation garment for, 25:13462
radiation protection of hands of, effectiveness of combined gloves and protective ointments for, 23:41333
radiation protection of heavy-water reactor, review of tritium β, 24:12090 (CEA-R-3874)
radiation protection of hospital, occupationally exposed to radioactive materials, 21:1761
radiation protection of industrial and laboratory, using lasers, 21:10888
radiation protection of industrial, duties of health physics physicians in, 23:6466
radiation protection of industrial, legal aspects of, 21:18059
radiation protection of industrial, principles of, 23:16308
radiation protection of industrial, program for, in New York state, 21:12871
radiation protection of industrial, x, 22:23525
radiation protection of laboratory, handling radioisotopes, standards for, 22:501
radiation protection of laser, 23:29542
radiation protection of laser, review of, 24:14615
radiation protection of materials testing, during γ radiography, 24:34357
radiation protection of microwave, 23:26811
radiation protection of mining, by respiratory equipment, radon and daughter product, α, 23:14215
radiation protection of mortuary, against radioactive corpses of man, standards for, 22:4625
radiation protection of nuclear power plants, summary of Electricite de France methods for, 25:53990 (A/CONF.49/P-848)
radiation protection of nuclear, toxicologic testing for internal contamination in, 23:41322
radiation protection of pharmacy, against radioisotopes, 22:40722
radiation protection of plutonium laboratory, 22:36268
radiation protection of power reactor, analysis of health physics criteria for, 22:53321
radiation protection of radiographic testing, methods and warnings for, 24:31632
radiation protection of radioisotope laboratory, methods for, 25:46859
radiation protection of radioisotope laboratory, methods for, 25:46858
radiation protection of radiologic, during dental and medical radiography, survey of prison installed x-ray equipment for, 24:48571 (BRH/DEP-70-19)
radiation protection of radiological, in Czecholovakia, 23:38598
radiation protection of reactor, code of practice for, 22:4628
radiation protection of reactor, in Japan, 22:4603(R) (JAERI-5016)
radiation protection of reactor, in Juelich reactor center, 23:31800 (JUL-543-ST)
radiation protection of reactor, using barrier creams, 21:4842
radiation protection of respiratory tracts of, use of gas masks for, 22:28481
radiation protection of ship, during transport of radioactive materials, 24:34358
radiation protection of space flight, proposed program of Soviet Union for, 22:25831(T) (JPRS-42635, pp 1-6)
radiation protection of uranium mine, performance of packed fiber or resin-impregnated respiratory filters for α, 23:24608 (COO-1500-9)
radiation protection of uranium mining, standards for, 22:33824
radiation protection of veterinary, during radiography of large animals, 24:34505
radiation protection of, against atmospheric contamination in laboratories, use of diving suits, gas masks, and respirators for, 22:45575
radiation protection of, against atmospheric contaminants, 23:45720(T) (AERE-Trans-1105)
radiation protection of, against helium-neon gas lasers, 25:16199
radiation protection of, against laser beams, review of methods for, 21:22415
radiation protection of, against phosphorus-32 during application of labeled fertilizer to potatoes, β, 23:38600
radiation protection of, against radioisotope inhalation or ingestion, design of plastic ventilated suit for, 25:8691
radiation protection of, against unsealed sources, regulations for, 22:12862
radiation protection of, at accelerators with energies less than 100 MeV, design and operational standards for, 24:44516 (CONF-691101-, pp 31-41)
radiation protection of, at Atlantic Richfield Hanford Company, manual of standards for, 24:4632 (ARH-220)
radiation protection of, at CERN, medical supervision for, 24:23220
radiation protection of, at Electrical Communication Laboratory in Japan, 22:36276
radiation protection of, at French nuclear establishments, 24:25493 (CEA-CONF-1443)
radiation protection of, at nuclear power stations, organization for, 24:41906
radiation protection of, at nuclear research centers, role of routine clinical examinations in, 23:8000 (RT/PROT-(68)11)
radiation protection of, at Project Milrow, 24:23215 (NVO-294-3)
radiation protection of, at Savannah River Plant, program for, 21:14667
radiation protection of, at storage facilities for radiation sources, standards for, 25:11078 (Y-1754)
radiation protection of, at Transuranium Processing Plant, 21:24414 (ORNL-TM-1766)
radiation protection of, confidence limits for radiation measurements in environment in relation to, 22:21535
radiation protection of, design and evaluation of protective clothing and respirators for, 21:32677
radiation protection of, design of ionization chamber using tissue equivalent filling composed of dielectric liquids for, 23:26552
radiation protection of, design of laser laboratories for, 21:12860
radiation protection of, design of overpressure protective clothing for, 23:29537 (FOA-4-4371)
radiation protection of, development of clothing for, 24:17054 (AECL-3475)
radiation protection of, dosimetry in reactor environs for, 22:8548
radiation protection of, during decontamination of AERE hot cells, equipment and methods for, 24:31564
radiation protection of, during diagnostic dental procedures, methods for, 24:25495 (NCRP-35)
radiation protection of, during handling and processing of irradiated veterinary materials, cesium-137 and cobalt-60 γ, 23:10151
radiation protection of, during handling and processing of plutonium, 22:4621
radiation protection of, during handling of radioactive materials, 23:2827
radiation protection of, during handling of tritium, 22:21525
radiation protection of, during industrial radiography, γ, 22:45581
radiation protection of, during mass labeling of fish, 25:21726
radiation protection of, during medical diagnosis and therapy, design of shielding for, 24:25494 (NCRP-34)
radiation protection of, during radiographic exposure of rats, design of cabinet for, 21:16420
radiation protection of, during radiotherapy, 23:22345
radiation protection of, during use of industrial radiography equipment, γ, 22:45578
radiation protection of, employed in industries and laboratories, 22:490 (CONF-660649)
radiation protection of, engaged in milling and mining of radioactive minerals, code of practice for, 24:12096 (STI/PUB-151)
radiation protection of, following accidents, programs for, 24:7886
radiation protection of, following accidents, programs for, 25:11079
radiation protection of, from accidents during operation of accelerator, 23:826
radiation protection of, from hazards of decontamination procedures, recommendations for, 23:31809 (SZS-4/69)
radiation protection of, from SNAP-27, control plan for Kennedy Space Center for, 24:4633 (N-69-34910)
radiation protection of, handling hazardous materials, facility for, 21:16341 (SCL-DC-67-5)
radiation protection of, high energy laser, 23:26813
radiation protection of, ICRP committee report on principles of monitoring for, 23:18030
radiation protection of, ICRP recommendations for high-energy electromagnetic, electron, neutron, and proton, 25:42464
radiation protection of, ICRP recommendations for monitoring work areas in relation to, 22:21531
radiation protection of, in Bavaria, 23:22310
radiation protection of, in Belgium, legal aspects of, 21:26430
radiation protection of, in diagnostic radiology department, standards for, 24:34378
radiation protection of, in environment contaminated with radioactive aerosols, evaluation of fibers in clothing for, 22:40677
radiation protection of, in EURATOM countries, legal aspects of, 21:41392 (NP-16789)
radiation protection of, in fabrication of recycled plutonium reactor fuel, use of computer in development of criteria for, 23:14173
radiation protection of, in France, standards for, 22:36269
radiation protection of, in Germany, standards for, 22:33834
radiation protection of, in industry, ionizing, 23:38609
radiation protection of, in industry, review of methods for, 22:49371
radiation protection of, in installations handling plutonium, 24:50866
radiation protection of, in medicine and research, 24:34373
radiation protection of, in nuclear industries, 23:9967
radiation protection of, in nuclear industries in France, 22:21533
radiation protection of, in nuclear industry, 22:28479
radiation protection of, in nuclear industry, 23:24623
radiation protection of, in nuclear industry, 21:34652 (DCROF-(2)-79)
radiation protection of, in nuclear industry, regulations for, 22:8554
radiation protection of, in nuclear industry, value of periodic medical examinations for, 23:50564
radiation protection of, in nuclear installations, 22:21532
radiation protection of, in nuclear installations, conference on, 23:29536 (EUR-3740)
radiation protection of, in nuclear medicine laboratories, 24:21181
radiation protection of, in plutonium chemical plant, methods for, 23:50552 (RFP-1254)
radiation protection of, in plutonium production centers, 22:49342
radiation protection of, in presence of radioactive aerosols, 22:21537
radiation protection of, in presence of radioactive aerosols, 22:21538
radiation protection of, in presence of radioactive aerosols, 22:21536
radiation protection of, in production of radiopharmaceuticals, 24:50929
radiation protection of, in radiochemical laboratories, 22:45574
radiation protection of, in radiochemical laboratories, 22:45587
radiation protection of, in radiochemistry laboratories, 22:45560
radiation protection of, in radiotherapy departments, standards for, 23:50566
radiation protection of, in reprocessing of irradiated fuel, 22:10321 (EURAEC-1938)
radiation protection of, in research and teaching, code of practice for, 23:2830
radiation protection of, in United Kingdom, Government White Paper on, 24:12101
radiation protection of, in uranium mines, 22:21539
radiation protection of, in x ray laboratories, recommendations for x, 22:28518
radiation protection of, laser, 23:29822 (CISE-117)
radiation protection of, legal aspects of, 24:9834
radiation protection of, methods for body burden assay service for carbon-14, radium-226, tritium, and uranium-235, 23:26810
radiation protection of, microwave, 24:17134
radiation protection of, of nuclear power station, medical program for, 23:18031
radiation protection of, operating large decontamination facility for removal of radioactivity by abrasive cleaning methods, 21:24401 (BNL-10076)
radiation protection of, operating neutron generators, methods for, 21:26456
radiation protection of, operating radiographic equipment, rules for, 24:738
radiation protection of, performance of mobile electrostatic precipitators for, 23:14206
radiation protection of, performance of photographic film dosimeters for, 22:49350
radiation protection of, performance of photographic film dosimeters for, 22:49351
radiation protection of, performance testing of face masks for, 24:50927(T) (LA-tr-70-17)
radiation protection of, performance testing of gas masks for, 24:50926(T) (LA-4459-TR)
radiation protection of, problems at power reactors of, 23:19451
radiation protection of, program for, 22:49330
radiation protection of, program for laser, 22:492 (LA-3731)
radiation protection of, program for microwave, 22:554(R) (UR-49-810)
radiation protection of, recommendations of ICRP for external-source, 25:42455
radiation protection of, recommendations of ICRP for, 25:42466
radiation protection of, recommendations of ICRP on, 24:32032
radiation protection of, review of international standards for microwave, 25:11088
radiation protection of, role of film dosimeters in planning for, 23:38607
radiation protection of, training for, 22:28493
radiation protection of, training for, 23:22311
radiation protection of, training program on, 21:39391 (AECL-2656)
radiation protection of, use of whole-body counting for, 23:50486

radiation protection of, using industrial radiographic equipment and gages, γ, 22:45576
radiation protection of, using lasers, 21:10887
radiation protection of, using radiations and radioisotopes, 22:45583
radiation protection of, using tritium, 22:19345
radiation protection planning for, in event of accidents, 24:7892
radiation protection planning for, in event of reactor accidents, 24:7903
radiation protection problems for uranium mining, 23:18121
radiation protection problems for, involved in demolition of radioactive chemical processing plant, 21:14652
radiation protection procedures and standards for NERVA test operations, manual of, 22:36255 (NTO-T-0022)
radiation protection program for nuclear, administration of, 24:50934
radiation protection program for telephone, 23:18037
radiation protection programs for industrial, in Soviet Union, 23:50574
radiation protection programs for nuclear industry, in France, 23:50558
radiation protection programs for plutonium handling, 25:51970 (NIRS-Pu-6)
radiation protection programs for plutonium production plant, 25:4526
radiation protection programs for radiochemical processing plant, 25:4527
radiation protection programs for radiochemistry laboratory, 25:52093
radiation protection programs for uranium processing plant, 25:46855(R) (PEL-188)
radiation protection programs for, at ISPRA, Italy, 24:7893
radiation protection programs for, at Karlsruhe Nuclear Research Center, 25:2570(R) (KFK-1158)
radiation protection programs for, Battelle-Northwest, 24:39508 (BNWL-MA-7)
radiation protection programs for, economic aspects of, 21:14666
radiation protection programs for, evaluation of USSR, 25:52090 (A/CONF.49/P-439)
radiation protection programs for, handling transuranium elements at Los Alamos Scientific Laboratory, 25:37798 (EUR-4612, pp 327-51)
radiation protection programs for, handling transuranium elements, 25:37821 (EUR-4612, pp 483-514)
radiation protection programs for, in industries using radioactive materials, 22:45586
radiation protection programs for, in plants producing actinium-227 from radium-226, 25:37803 (EUR-4612, pp 547-58)
radiation protection programs for, in U.S.S.R, 23:9931(T) (JPRS-44356, pp 65-75)
radiation protection programs for, in USA, 24:34366 (CONF-690335, pp 4-8)
radiation protection programs for, in USSR, 25:52062 (A/CONF.49/P-429)
radiation protection programs for, mining and fabricating uranium and thorium, 25:52083
radiation protection recommendations for uranium mining, basic guides for, 23:31802
radiation protection recommendations for, ICRP, 25:42467
radiation protection regulations for transportation, carrying radioactive materials on roads in Great Britain, 25:42451
radiation protection regulations for, in Hungary, 21:3406
radiation protection requirements for reactor, review of, 23:37560 (NP-17851, pp 127-62)
radiation protection requirements for uranium mining, economics study of, 23:26809 (RMC-UR-42)
radiation protection standards for firemen, 25:24195
radiation protection standards for industrial, 23:43798
radiation protection standards for laser, 22:38252 (CONF-660573-, pp 97-109)
radiation protection standards for medical x-ray, in USA during 1962 to 1967, survey of, 23:35796
radiation protection standards for nuclear, recommended by ICRP, application of, to Canadian nuclear activity, 23:819 (NP-17444)
radiation protection standards for uranium mine and mill, 25:29536
radiation protection standards for uranium mine and mill, 25:29535
radiation protection standards for uranium mine, economic impact of compliance with, 25:29532
radiation protection standards for, at nuclear power centers in Italy, 25:42478
radiation protection standards for, conference on, 24:48573
radiation protection standards for, in France, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
radiation protection standards for, in nuclear industry in United States, 23:14153 (DUN-SA-77)
radiation protection standards for, of nuclear reactor fuel fabrication plants, 25:29534
radiation protection standards for, use of average-annual concentration for, 24:48583
radiation protection standards of industrial radiography, in France, 22:36265
radiation protection techniques for, handbook on, 21:24452
radiation protection to uranium mining, against radon daughter inhalation, efficiency of respirators for γ, 24:727
radiation safety measures for monitoring, at Lawrence Radiation Laboratory, development of advanced training course in, 24:25497 (UCRL-50789)
radiation sickness in, following ingestion of solutions containing cesium-137 or cesium-137 mixed with cesium-134, pathology and treatment of, 24:23242(T) (LF-tr-40)
radiation, use of hemograms for evaluation of, 23:8001 (RT/PROT-(68)12)
radioactive aerosol and dust inhalation by, relation of particle size to, 24:9835 (LA-4249)
radioactive contaminated wounds of, treatment of, 23:31829
radioactive contamination of clothing of, permissible levels of α and β, 21:45645
radioactive contamination of clothing worn by, in nuclear industry, methods for removal of, 22:8553
radioactive contamination of industrial, first aid and decontamination procedures for, 23:4988
radioactive contamination of nuclear power plant, in Italy, results of whole-body counting methods for measurement of internal, 25:42435
radioactive contamination of nuclear, at Ispra, methods for measurement of mixed β and γ, 25:29517
radioactive contamination of radiation, AEC proposed record-keeping system for, 23:24666
radioactive contamination of skin of, in nuclear installation, methods for removal of, 22:12850
radioactive contamination of, at Juelich nuclear research center in 1968, methods for monitoring, 24:36754 (JUL-603-ST, pp 128-38)
radioactive contamination of, at Juelich research reactors, methods for removal of, 24:36745 (JUL-603-ST, pp 143-50)
radioactive contamination of, from fallout, 22:38356
radioactive decontamination of, at Whiteshell Nuclear Research Establishment, design and operation of facility for, 23:45719 (AECL-3290)
radioactivity monitoring results for nuclear, 23:6467
radiodermatitis occurrence, treatment, and insurance compensation for, in France, 25:42544
radioinduced aberrations of chromosomes in leukocytes of radiation, 22:28437
radioinduced bone lesions in radium dial, following ingestion of radium-226, radiographic diagnosis of, 25:8669 (COO-2088-1)
radioinduced bone tumors in radium dial painting, following internal contamination with radium-224 or radium-226, comparison of α and γ, 24:50939 (CONF-691212-, pp 369-86)
radioinduced cancer in lungs of mining, 22:25963
radioinduced cancer in lungs of uranium mining, following occupational exposure, gamma, 25:27045
radioinduced carcinogenesis in lungs of uranium mining, 23:45935
radioinduced carcinogenesis in lungs of uranium, incidence of, 21:16490
radioinduced carcinogenesis in lungs of, following inhalation of radon decay products, α and γ, 24:27601 (CONF-691001-, pp 3-12)
radioinduced carcinomas in, 23:41471
radioinduced carcinomas in radium dial, following long-term deposition of radium-226, 24:34721
radioinduced cataracts in eyes of, program for protection against microwave, 24:21190
radioinduced changes in blood of x-ray, 21:8997
radioinduced changes in oxygenation in, evaluation of polarography for measurement of, 24:27603
radioinduced cheilitis in steel pickling, protection against uv, 23:29848
radioinduced chromosome aberrations in blood cells of industrial, γ, 25:55163
radioinduced chromosome aberrations in leukocytes of, incidence of γ and x, 22:8506
radioinduced chromosome aberrations in leukocytes of, 22:4594
radioinduced chromosome aberrations in leukocytes of radiological, low-dose chronic γ, 23:45711
radioinduced chromosome aberrations in leukocytes from, low-dose ionizing, 24:17021(T) (UCRL-Trans-10442)
radioinduced chromosome aberrations in leukocytes of, low-dose fast neutron and γ, 24:14462
radioinduced chromosome aberrations in lymphocytes in, use of, for dosimetry following accidents, 24:7856
radioinduced chromosome aberrations in radiography, following accidental exposure to iridium-192, β and γ, 24:25439 (CONF-700205-1)
radioinduced chromosome aberrations in, effects of dose on ionizing, 23:12056
radioinduced chromosome aberrations in, following accidental exposure, γ, 22:43406
radioinduced chromosome aberrations in, low-dose ionizing, 24:7871
radioinduced chromosome aberrations in, of nuclear industry, estimation of, 22:31030
radioinduced chromosome aberrations in, with occupational radiodermatitis, x, 23:16258(T) (ORNL-tr-1928)
radioinduced death in reactor, following criticality accident, 21:26615
radioinduced dermatitis on hands of, following handling of iridium-192 gamma camera, 24:7898
radioinduced dermatitis on hands of, following handling of high-activity β source, 24:7897
radioinduced eye injuries in, legal responsibility and protection needs in, 23:16331
radioinduced inflammation of skin of, cytological analysis of x, 22:38442
radioinduced injuries to hands of, following accidental exposure, x, 22:25983
radioinduced injuries to lens of eye of microwave, 21:36734
radioinduced injuries to, medical management of, 24:50961
radioinduced irritation of eyes and skin of, using uv light to detect forgeries of bank notes, 25:4710
radioinduced lesions in bones of, effects of radium body burdens on occurrence of, 21:16356
radioinduced lesions in, following prolonged contact exposure to low-dose γ source, 24:7896
radioinduced leukemia and thyroid carcinomas in, following hypothetical reactor accident, comparison of late mortality risks from, 25:6808
radioinduced leukopenia in, in United Arab Republic Atomic Energy Establishment, 25:47021
radioinduced leukopoiesis in, 24:48577
radioinduced lung cancer among uranium mining, ventilation system for reducing radon, 24:44470
radioinduced lung cancer in uranium mining, determination of liability for, under workman's compensation, 23:24664
radioinduced lung cancer in uranium mining, dose-time relations for, 24:34323
radioinduced lung cancer in uranium mining, use of lead-210 content of bones in dose-time study of α and γ, 23:29546 (UR-49-1065)
radioinduced lung cancer in, in uranium mines, 23:26916
radioinduced lung cancer in, in uranium mines, relation between exposure to radon daughters and, 23:26917
radioinduced lung cancer of, in uranium mines, radon daughters, 23:26915
radioinduced malignancies in watch dial painter, radium-226 α and γ, 23:29819 (ACRH-30, pp 69-91)
radioinduced malignancies in, in Czechoslovakia, methods for protection against, 25:29711
radioinduced osteodystrophy in uranium mining, following inhalation of radon-222, 25:19144
radioinduced skeletal lesions in radium dial painting, following ingestion of radium-226, 24:2659
radioinduced tumors in bones and liver of, following occupational inhalation of plutonium-239, models for estimating probability of α and γ, 25:11301
radioinduced unstable chromosome aberrations in industrial, following chronic low-dose exposure, γ, 23:41287
radioisotope accumulation by, MPC for rhodium-102, rhodium-102m, and palladium-107, 24:44527
radioisotope contamination among AEC contractor, during 1957 to 1966, statistical analysis of internal, 23:24645
radioisotope contamination among, of USAEC licensees during 1957 to 1966, statistical analysis of internal, 23:24646
radioisotope contamination of cyclotron maintenance, following accidental inhalation, calculation of lung deposition following tantalum-182 and zinc-65, 23:38560
radioisotope contamination of cyclotron, use of whole-body counters to determine beryllium-7, manganese-54, and zinc-65, 23:24627
radioisotope contamination of cyclotron, whole-body counting of mixture of tantalum-182 and zinc-65, 24:41872
radioisotope contamination of dial painting, use of whole-body counter to measure radium-226 and strontium-90, 24:19286 (MIT-952-6, pp 1-132)
radioisotope contamination of laboratory, following accidental inhalation, statistical analysis of, 23:24648
radioisotope contamination of military, extent of, based on future use, 23:24651
radioisotope contamination of uranium mining, in United States, summary of data on internal, 23:24647
radioisotope contamination of, at Juelich nuclear research center, chemical methods for monitoring, 24:36746 (JUL-603-ST, pp 151-2)
radioisotope contamination of, evaluation of prompt protective action following accidental, 23:24658
radioisotope content in, maximum permissible, 21:6529
radioisotope content of bones of, of uranium mines, relation of exposure to radon daughter products and, lead-210, polonium-210, 23:26665
radioisotope content of industrial, medical, and research, in East Germany during 1965 to 1967, use of experimental whole-body counter to measure, 23:41320
radioisotope content of reindeer-breeding, in Sweden, effects of fallout on, 23:38562
radioisotope content of tissues and urine of uranium mining, effects of time following exposure on measuring lead-210 and polonium-210, 23:24655
radioisotope content of uranium mining, lead-210 and polonium-210, 23:29467 (COO-1500-10)
radioisotope content of urine of uranium mining, polonium-210, radium-226, and uranium, 23:48035
radioisotope content of urine of, in uranium mines, polonium-210, radium-226, and uranium, 23:31731
radioisotope content of, relation of half-life to monitoring of, 25:52053
radioisotope decontamination and removal from, review of methods for, 22:38298
radioisotope deposition in lungs of uranium mining, factors affecting percent total bismuth-214, lead-214, and polonium-218, 24:7840
radioisotope distribution in tissues of uranium mining, lead-210 and polonium-210, 25:55117
radioisotope incorporation in nuclear industry and research center, in Germany, statistics on, 25:35100
radioisotope inhalation by, quantitative analysis of hazards from, 23:14195
radioisotope metabolism and retention in tissues of, following internal contamination, ICRP report on mathematical parameters for, 25:16148
radioisotope monitoring in nuclear, routine procedures for plutonium, tritium, and uranium, 24:27582 (CONF-690540-, pp 356-79)
radioisotope toxicity to uranium mining, following inhalation, mechanisms of radon, radon decay product, uranium, and uranium decay product, 23:45770 (CEA-CONF-1315)
radioisotope toxicity to, diagnosis, dosimetry, metabolism and treatment of, 24:21184(T) (AEC-tr-7131)
radioisotope uptake by, at Juelich nuclear center, whole-body counting and excretion measurements for determining, 24:36747 (JUL-603-ST, pp 157-74)
radioisotope uptake by, at Juelich nuclear research center, methods for determining, 24:36744 (JUL-603-ST, pp 109-18)
radioisotope uptake by, use of urinalysis and whole-body counting to determine iodine-131, mercury-203, tritium, and uranium, 24:27583 (CONF-690540-, pp 380-90)

radioisotope uptake during preparation of labeled pharmaceuticals, whole-body counting of, 25:24007
radioisotopes inhalation by, chemical and physiological methods for removal from lungs following, 24:50864(T) (LF-tr-43)
radiological health and safety, duties of, 23:26816
radiological safety procedures for uranium mining, in Czechoslovakia, 24:44522
radioprotective suit for active-handling cell, 23:29533 (AERE-R-5288)
radiosensitivity of atomic energy, value of pre-employment medical examination for prediction of, 25:13465
radiosensitivity of skin of, effects of, on qualifications for work in nuclear research centers, 22:49530
radiotherapy of diseases of mining, induced by lack of sunlight, uv, 22:33837(T) (JPRS-41315, pp 26-35)
radium content in bodies of, in luminizing industries, 21:26433
radium content of blood and tissues in dial painting, 40 years following ingestion, 24:21151
radium content of, in biological samples of uranium mining, assay of, 23:29487
radium ingestion by, working with radium vita emanator, 23:48031
radium monitoring of luminous paint, 21:41415
radon daughter inhalation by uranium mining, comparison of bioassay and personal air sampling methods for monitoring, 25:52068 (COO-1500-18)
radon daughter product concentrations in uranium mining, expressed in working level months, confirmation of recommended standards for, 24:19288 (MIT-952-6, pp 185-211)
radon decay product content of blood, hair, feces, and urine of uranium mining, methods for estimation of exposure level from, 23:48033
radon decay products in respiratory system of uranium mining, methods for determining, 23:38582
radon-222 inhalation by uranium mining, 24:27581 (CONF-690540-, pp 329-55)
radon-222 inhalation by uranium mining, maximum admissible concentrations of, 23:38610(T) (LIB/Trans-202)
recommendations for protection of, against ionizing radiation, 24:737
registry for AEC national plutonium, exposed to plutonium hazards, 23:14152 (BNWL-SA-2205)
reliability of reactor operator, quantitative method for assessment of, 23:31141 (SC-R-69-1236)
requirements for environmental radiation surveillance laboratory, 25:10763
requirements for nuclear power industry, Commonwealth Edison experience with, 24:5780
requirements for nuclear power industry, predictions of, 24:5777
role of health physics, in control of radiation, 23:18032
role of health, in control of radiation in human environment, 23:18033
role of nuclear, in industry, 25:48370 (BNWL-SA-3883)
role of radiological technical, in civilian defense, 23:6478
safety hazards of power reactors on, effects of radiation, 22:42150 (AECL-3067, pp 29-33)
safety in disposal of chemical and radioactive waste, 21:39163 (BNL-11508)
safety in Eurochemic fuel reprocessing plant at Mol, 22:6424
safety measures for, working with uranium, 21:1544(T) (JPRS-36824)
safety procedures and equipment for maintenance of liquid metal-cooled fast reactor liquid sodium cooling system, description of, 22:46960
safety procedures for, during Operation Bren, 25:18982 (CEX-65.05)
safety record of, at Oak Ridge National Laboratory during 1968, 23:41336(R) (ORNL-4423)
safety regulations for nuclear, in Hungary, evaluation of, 25:58027
safety requirements for power reactor, review of, 23:31186
safety standards for laser, at Sandia laboratory, 22:51573 (SC-TM-68-436)
safety systems for Savannah River Production Reactors, description of tritium monitoring and protection, 22:35455 (DPSPU-66-30-13)
sampling of urine of, for plutonium-239, suggested basis for, 21:18061
security surveillance of unauthorized, development of system using radiation instruments for, 24:27299(P)
selection and training of, for accident prevention, 21:20207
selection of supervisory, program for, 24:24946 (K-1789)
selection of U.S. power reactor, program for, 25:39217 (CONF-710416-, Paper 6)
shelters for, design of entranceways and exits of fully-buried, 21:17803 (AD-636048)
shielding in food irradiation plants, methods for, 23:35960
shock wave effects from TNT explosions on, in coniferous forest, 22:43348 (AD-666822)
staffing procedures for U.S. power reactor, 25:39224 (CONF-710416-, Paper 15)
staffing requirements for nuclear power plant operation in developing countries, 25:36889 (UARAEE-98)
standards for protection of, against industrial accidents in Germany, 22:33833
standards for protection of, against radioactive aerosols, 22:23508 (SC-M-67-2973)
standards for protection of, during handling of cobalt-60, 21:41430
survival capability of, following nuclear attack on United States in 1975, 23:50593 (CONF-671135-, pp 231-42)
thorium detection and measurement of thorium activity in, of lamp factory in Brazil by whole-body counting, 22:25829 (TID-24488)
thorium hazards to, in industry and research, 21:12889
thorium inhalation by, pathological effects of, 24:9738(T) (LF-tr-1)
toxicity data for radium dial painters, 21:8672 (MIT-952-3, pp 202-317)
toxicity of biphenyl and terphenyl reactor coolants to reactor, characterization of, 24:41901
toxicity of molybdenum and tungsten chlorides to, 23:14160(T) (TT-67-51409/4, pp 406-11)
toxicity of rare earth fluorides to, during industrial production, 23:14159(T) (TT-67-51409/4, pp 343-7)
training activities of French C.E.A. during 1967, 23:4504 (NP-17597, pp 207-13)
training architectural and engineering, for building construction, 22:4387
training course for reactor operators, basic physics notes for, 22:5917 (APIO-1038)
training course on PERT and work planning and scheduling techniques, 24:52853 (RT/GEN-(70)1)
training course on reactor safety, lecture notes for, 23:2057 (NP-17649(Vol.1))
training course on reactor safety, lecture notes for, 23:2058 (NP-17649(Vol.2))
training for Army Reactor operation, 21:23641
training for civil defense in Austria, 23:20211 (CONF-680507-, pp 614-22)
training for civil defense plans, 23:20179 (CONF-680507-, pp 25-8)
training for control of radiation accidents, 22:12844 (NP-17209)
training for maximum credible accident in Gundremmingen Power Reactor, 24:28936 (CONF-690540-, pp 261-72)
training for maximum credible accident in Gundremmingen Power Reactor, 24:28935 (CONF-690540-, pp 246-60)
training for power reactor operations in developing countries, 23:37557
training for radiation protection procedures in Peoples Democratic Republic of Germany, 23:33730
training for reactor operation, 21:35606
training for reactor operator, evaluation of computerized simulators for, 23:43073
training handbook for reactor operators, instrumentation and controls sections of, 22:35670 (ORNL-TM-2034(Vol.5))
training in air sampling techniques for detection of radioactive aerosols and dusts, proposals for, 24:9835 (LA-4249)
training in decontamination procedures in postattack situations, guidelines for, 25:16112(R) (AD-711972)
training in Japan of reactor-powered merchant vessel, program for, 23:15705
training in meteorology of reactor operator, summary of literature and methods for simplified, 23:43072
training in methods for treatment, of radiation injuries, 23:22303
training in nuclear civil engineering, survey of US university courses for, 24:27273
training in nuclear materials safeguards, history of Argonne Program for, 25:48784 (CONF-710617-11)
training in nuclear technology in Latin America, summary of, 25:54336 (A/CONF.49/P-755)
training in radiation safety for, in Japan, 23:20236
training in radiological laboratory, organization of services for, 25:42500
training in reactor stress analysis, 24:7069
training lectures for, at Idaho Nuclear Corporation, 24:2681 (IN-1310, pp 42-61)
training manual for La Crosse Boiling Water Reactor waste solution transfer procedures, 23:9067 (ACNP-68505-G(Suppl.))
training manual for La Crosse Boiling-Water Reactor, health physics, 24:24734 (ACNP-68505-J)
training manual for reactor operators, 24:28892 (WCAP-2713(Rev.))
training of 800 MW(e) boiling reactor, use of digital computer real-time simulator for, 23:47344
training of Argonne National Laboratory, description of program for safeguards, 24:443
training of ATR reactor operators, use of console mockup with hybrid computer for, 23:33119 (IN-1228, pp 111-13)
training of boiling power reactor, use of GE/PAC 4020 process digital computer for, 23:45150
training of boiling reactor operator, use of simulator for, 24:50134
training of boiling water reactor operator, General Electric simulator for, 24:18526
training of civilian and naval nuclear engineering, facilities and programs at British Royal Naval College for, 24:9215
training of civilian defense, for waste disposal in postattack environment, 21:20158 (AD-643204)
training of college, description of reactor physics course for, 22:33104
training of Connecticut Yankee, Vermont Yankee, and Maine Yankee operations, description of, 23:37426
training of engineering, ANL graduate practice school for, 21:36210
training of engineering, for peaceful uses of nuclear explosives, curriculum development for, 24:27284
training of fast reactor, design parameters of high temperature sodium corrosion loop for, 24:7372
training of FFTF closed loop test operating, 23:11274 (BNWL-852)
training of La Crosse Boiling-Water Reactor, operating manual for instrumentation, control, and electrical distribution systems, 23:1965 (ACNP-68505-D)
training of La Crosse Boiling-Water Reactor, operating manual for service systems, 23:1966 (ACNP-68505-E)
training of La Crosse Boiling-Water Reactor, operating manual for waste collection and treatment system, 23:1968 (ACNP-68505-G)
training of La Crosse Boiling-Water Reactor, operating manual for water chemical analysis, 23:1969 (ACNP-68505-H)
training of La Crosse Boiling-Water Reactor, operating manual for turbine generator systems, 23:4086 (ACNP-68505-C)
training of La Crosse Boiling-Water Reactor, operating manual for refueling system, 23:1967 (ACNP-68505-F)
training of La Crosse Boiling-Water Reactor, operating manual for industrial safety, 23:1970 (ACNP-68505-K)
training of natural-uranium gas-cooled and water-cooled power reactor operators, use of analog computer for, 23:11371
training of naval engineering, as nuclear submarine power plant operators, 24:9214
training of nuclear engineering, at British Universities, evaluation of graduate and undergraduate, 24:9212
training of nuclear engineering, at London University, description of curriculum for, 24:9216
training of nuclear engineering, facilities and programs in Federal Republic of Germany for, 24:9218
training of nuclear engineering, for design and construction of nuclear plants, requirements for, 24:9221
training of nuclear engineering, for government and industry, requirements for, 24:27281
training of nuclear engineering, industry requirements for, 24:27282
training of nuclear engineering, Iowa State University curriculum for, 24:27277
training of nuclear engineering, program for academic and industrial, 24:9220
training of nuclear engineering, Stanford University curriculum for, 24:27278
training of nuclear engineering, University of Arizona curriculum for, 24:27275
training of nuclear engineering, University of California (Davis) curriculum for, 24:27276
training of nuclear engineering, University of Michigan curriculum for, 24:27274
training of nuclear engineering, use of computers for, 25:6194
training of nuclear engineering, use of remote computer reactor simulator for, 25:6193
training of nuclear power plant operators, use of analog simulator and steam turbine for, 25:39168
training of nuclear power plant operators, use of reactor simulators for, 24:40793
training of nuclear power plant, standards for, 25:31481
training of nuclear science, review of two decades of Oak Ridge Associated Universities special programs for, 24:29449
training of nuclear scientist and engineer, requirements of developing countries for, 25:54033 (A/CONF.49/P-540)
training of nuclear, program in Republic of China for, 25:54012 (A/CONF.49/P-106)
training of nuclear, programs for, 23:50453 (PHS-999-RH-33, pp 116-21)
training of Philippine Research Reactor, at University of Virginia, 23:4321
training of power reactor, 25:39135 (CONF-710416-, Paper 2)
training of power reactor and radiochemical processing plant, 25:39134 (CONF-710416)
training of power reactor operating, in UK, curricula and methods for, 24:9219
training of power reactor operations, use of integrated training program-simulator for, 23:37425
training of power reactor operators, evaluation of role of universities in, 23:37424
training of power reactor, requirements and schedule for, 23:49570
training of power reactor, Rheinsberg school for, 25:59916
training of power reactor, safety requirements for, 23:37383 (NP-17851, pp 163-76)
training of pressurized water reactor operation, use of simulator for, 24:24722
training of pressurized water reactor operator, use of simulator for, 24:50135
training of reactor operating description of Westinghouse reactor simulator and programs for, 24:18524
training of reactor operation, development of program for, 21:47054
training of reactor operations, requirements for, 22:22683 (DUN-1617)
training of reactor operator, Babcock and Wilcox reactor simulator and programs for, 24:18525
training of reactor operator, development in Japan of simulators for, 23:43220
training of reactor operator, handbook on elementary mathematics for, 23:4463 (ORNL-TM-2034(Vol.1))
training of reactor operator, programs for, 24:33478
training of reactor operator, review of educational facilities and programs in Brazil for, 23:43233 (CONF-670338, pp 317-20)
training of reactor operator, use of analog, digital, and hybrid computers for, 23:31237 (CONF-681058-1)
training of reactor operator, use of deactivated Hanford D Reactor for, 23:43211 (DUN-SA-88)
training of reactor operator, use of deactivated Hanford Production Reactors control center for, 23:37684
training of reactor operator, use of two TR-10 Pace analog computers and Hanford D Reactor control room for, 23:31175 (DUN-5381)
training of reactor operators, reactor physics instruction handbook for, 22:35669 (ORNL-TM-2034(Vol.3))
training of research and development nuclear engineering, requirements for, 24:9217
training of U. S. nuclear power plant, standards on, 25:25892
training of U.S. power reactor, academic and laboratory courses for, 25:39223 (CONF-710416-, Paper 14)
training of U.S. power reactor, proposed standard for selection and, 25:39216 (CONF-710416-, Paper 5)
training of U.S. power reactor, university programs for, 25:39218 (CONF-710416-, Paper 7)

training of, description of nuclear materials management course for, 22:33105
training of, Oregon State University new curriculum for neutron theory, 23:37707
training of, revised Berkeley curriculum for neutron theory, 23:37708
training problems for Hanford Production Reactors (N) startup, 21:35768
training procedures for Gundremmingen Power Reactor, description of, 23:5985
training procedures for reactor operation, problems in, 21:35636
training procedures for U.S. power reactor, 25:39224 (CONF-710416-, Paper 15)
training program for AGN—201 reactor experimentation, 22:30341
training program for boiling power reactor startup and operation, 25:5887
training program for college, use of time-sharing computers in nuclear engineering, 22:33106
training program for Hanford reactor operating, 23:52439 (DUN-SA-126)
training program for high school, description of traveling lecture-demonstration atomic energy, 22:33107
training program for Hutchinson Island power reactor, 24:18515
training program for nuclear power plant operating staff, 25:51125
training program for nuclear power plant replacement staff, 25:51123
training program for nuclear power plant staff, 25:51124
training program for operator, for boiling power reactors, 25:53934 (A/CONF.49/P-302)
training program for power reactor operator, 25:39136 (CONF-710416-, Paper 13)
training program for power reactor operator, 25:41305
training program for power reactor operator, 25:41306
training program for power reactor operator, 25:41304
training program for power reactor operators, 25:5895
training program for power reactor startup and operation, 25:6211
training program for radiochemical processing plant operators, 25:37457 (CONF-710416-, Paper 18)
training program for reactor operator, detailed curriculum and schedule for, 22:37450 (WCAP-7170)
training program for reactor operators, heat theory and fluid flow handbook for, 23:7414 (ORNL-TM-2034(Vol.4))
training program for research reactor, 25:41558
training program for research reactor, 25:54195 (ANCR-1019)
training program for research reactor operator, 25:41559
training program for shelter managers, 21:10852 (AD-630015)
training program for test reactor replacement operating staff, 25:51190
training program for U.S. power reactor health physicists, 25:39220 (CONF-710416-, Paper 10)
training program for University of California, description of nuclear engineering, 22:33103
training program for University of Washington, description of nuclear engineering televised seminar, 22:33102
training programs for EURATOM nuclear power plants, 22:20809 (EUR-3662)
training programs for European reactor, 22:5931(R) (NP-17110)
training programs for MSRE, 21:35634
training programs for nuclear power plant, 25:39131 (A/CONF.49/P-103)
training programs for nuclear power plant staffing, availability of U.S, 24:13491 (WASH-1130)
training programs for nuclear utility management and technical staffs, list of, 23:21420 (TID-24966)
training programs for Obrigheim reactor operators, 23:15594
training programs for Penn State TRIGA Reactor, during July 1968 to June 1969, 23:52413(R) (NYO-1859-4)
training programs for radiological health, institutions offering federal grant-supported, 25:16193 (BRH/OBD-70-2)
training programs for reactor design, 21:8091
training programs for research reactor operator and maintenance, 25:39286 (CONF-710416-, Paper 8)
training programs for research reactor operators, 25:39287 (CONF-710416-, Paper 16)
training programs for U.S. power reactor, 25:39215 (CONF-710416-, Paper 4)
training programs for U.S. power reactor operators, on-the-job, 25:39222 (CONF-710416-, Paper 12)
training programs for U.S. power reactor, description of simulator, 25:39221 (CONF-710416-, Paper 11)
training reactor operator, description of GE-Dresden, 22:37499
training requirements for operation of proposed power reactors, 22:12052
training requirements for power reactor operator, 24:11115
training requirements for radiochemical processing plant operators, 25:37456 (CONF-710416-, Paper 17)
training requirements of operating, for nuclear power industry, 24:5778
training techniques for Ames Research Reactor, 21:35751
training techniques on simulated power reactors, 21:35635
training text for shelter managers, 21:10850 (AD-629940)
training text for shelter managers, 21:10849 (AD-629939)
treatment of plutonium-contaminated wounds in, 24:7940
treatment of reactor, medical unit designs for post-accident, 23:9110
treatment of, following accidental radioactive contamination, 24:50870
tritium biological half-life in dial painting, two compartment aspects of, 25:46707
tritium contamination of, determination of dose from, 21:26457
tritium contamination of, in luminous paint factory, clinical and post mortem analyses of internal, 24:19285(T) (CONF-680657-2)
tritium content in urine of, operating neutron generators, 25:42390
tritium content of exhaled water vapor of factory, method for estimation of body burden from, 23:48038
tritium oxide content in expired air and urine of industrial, recommendations for maximum permissible, 25:8678(T) (ORNL-tr-2403)
uranium cases among Y-12, showing long chest burden retentions, 22:40703
uranium concentration permissible for, review of, 22:51559 (AHSB(RP)R-77)
uranium contamination of, development of formulas for monitoring and toxicity of, 22:51563 (CEA-R-3361)
uranium contamination of, in fuel element producing industry, methods for analyzing, 24:34377
uranium content in urine of, at a nuclear center, 21:1760
uranium content in urine of, at uranium ore processing plant, 23:28688
uranium content of urine in, following accidental inhalation, use of fluorometric urinalysis to determine, 24:27600 (CONF-690540-, pp 391-6)
uranium content of urine of, use of, for monitoring work area environment, 22:38270
uranium excretion by, following accidental inhalation, 25:2563
uranium inhalation by, pathological effects of, 24:9738(T) (LF-tr-1)
uranium monitoring in urine of, performance of solid-state detectors compared with nuclear track counting for, 21:14654
uranium oxide uptake and retention by uranium milling, methods for measurement of, 24:21104
uranium retention in chest of, methods for monitoring, 24:6034
uranium tolerance among uranium mining, variations in lipid metabolism as basis for determining, 24:46575
uranium uptake by respiratory tract of fabrication plant, effects of content and particle size of dusts on, 23:14152 (BNWL-SA-2205)
uranium-235 contamination of, in processing plant, in vivo counting program to determine lung burden following, 23:29499 (GAT-R-444)
uranium-235 content of industrial, 22:25859 (UCLA-12-668, pp 1-28)
uranium-235 content of, following chronic exposure to uranium oxides, whole-body counting of, 24:21104
uranium-235 content of, measurement of, using scintillation scanning, 23:14152 (BNWL-SA-2205)
working level exposures of uranium mining, design of personal monitor for measuring cumulative, 24:19288 (MIT-952-6, pp 185-211)
zinc-65 content in cyclotron, 21:12754 (UCRL-50007-66-1, pp 37-40)

Perspex
see Methacrylic Acid, Methyl Ester, Polymer

Perspiration
see Sweat

Persulfates
see Peroxysulfates

PERTECHNETATES
see also Ammonium Pertechnetates
see also Potassium Pertechnetates
see also Sodium Pertechnetates
clearance of technetium-99-labeled, from human parotid gland, 22:25736
complexes with 2-phenyl-4-chromancarboxylic acid, stability studies on, 25:48517
content of gastric juice and saliva, 22:40600
determination after solvent extraction from aqueous solutions using Methyl Violet, spectrophotometric, 21:23845
determination in presence of molybdate and perrhenate ions, polarographic method for, 22:2025 (EUR-3641)
dosimetry and performance of technetium-99-labeled, for diagnosis of diseases of salivary glands in man, 22:51778
effectiveness of metastable technetium-99-labeled, for brain scintigraphy in man in comparison to metastable indium-113-labeled EDTA, 25:558
metabolism of technetium-99 labeled, in thyroid of rats, comparison of, with iodine-131, 22:14961
metabolism of technetium-99-labeled, in man and rats, 22:8451
metabolism of technetium-99-labeled, in rat thyroid gland, factors affecting, 21:17956
polarographic behavior of, 22:1951 (JUL-465-RC)
properties as corrosion inhibitors, 21:16569
properties of, chemical and physical, 22:2025 (EUR-3641)
radiation dose to man from use of technetium-99-labeled, for brain scanning, 22:2531
reactions with hydrogen sulfides, 22:2083
reduction by hydrobromic acid and hydrochloric acid, paper chromatographic studies on, 24:25064
reduction by hydrobromic, hydrochloric, hydrofluoric, nitric, and sulfuric acids, 24:20780
reduction in alkaline media, electrochemical study of kinetics of, 23:45289
reduction in alkaline solutions, electrochemical, 25:6302
reduction of, in hydrochloric acid, ion exchange and paper chromatography studies on, 21:4525
separation from hydrochloric acid by solvent extraction using organic oxides, 22:6413
spectra of meso form of, in barium pertechnetate and sodium hydroxide, 23:9412
spectra of tetrabutylammonium and tetraphenylarsonium, infrared, 21:32166
uptake by human thyroid gland, effects of thyroid function on, 24:34504
uptake of technetium-99-labeled, by human saliva, effects of perchlorates on, 23:4870
use of metastable technetium-99-labeled, with Anger camera for diagnosis of human metastatic papillary thyroid carcinomas, 25:13488
use of technetium-99 labeled, for stomach scanning, evaluation of, 22:10786
use of technetium-99-labeled for diagnostic scanning, 23:50723
use of technetium-99-labeled sodium, for scanning human stomachs, 22:31162
use of technetium-99-labeled, for brain scanning, 23:26848
use of technetium-99-labeled, for brain scanning, 22:40761
use of technetium-99-labeled, for brain scanning, comparison of mercury-197-labeled chlormerodrin to, 22:28562
use of technetium-99-labeled, for brain scanning, review of, 23:38636
use of technetium-99-labeled, for diagnosis of brain tumors, review of, 22:21546
use of technetium-99-labeled, for diagnosis of diseases of human spinal canal, 23:12178
use of technetium-99-labeled, for diagnosis of disorders of human salivary glands, 23:871
use of technetium-99-labeled, for diagnosis of human thyroid diseases in comparison with iodine-131, 23:12176
use of technetium-99-labeled, for diagnosis of human thyroid diseases, 23:18049 (CONF-670958-, pp 152-63)
use of technetium-99-labeled, for diagnosis of tumors in human abdomen, 23:29618
use of technetium-99-labeled, for localization of ectopic thyroid tissue, 21:43477
use of technetium-99-labeled, for renal scanning in comparison with mercury-197-labeled neohydrin, 23:48129
use of technetium-99-labeled, for scanning blood pools in human cardiovascular system, 23:50730
use of technetium-99-labeled, for scanning blood vessels in brain, 23:6511
use of technetium-99-labeled, for scanning brain, 23:50729
use of technetium-99-labeled, for scanning human brain for diagnosis of intracranial Hodgkin's disease, 24:7966
use of technetium-99-labeled, for scanning kidneys, 23:6512
use of technetium-99-labeled, for scanning liver, 23:6513
use of technetium-99-labeled, for scanning of brain, 23:38649
use of technetium-99-labeled, for scanning of cardiac blood pool, 21:4826
use of technetium-99-labeled, for scanning of human salivary glands, 22:31183
use of technetium-99-labeled, for scanning of thyroid gland, 23:38638
use of technetium-99-labeled, for scanning salivary glands, 23:43811
use of technetium-99-labeled, in brain scanning of children, 21:24523
use of technetium-99m-labeled, for brain scanning, dose to thyroid from, 23:38664
use of technetium-99m-labeled, for brain tumor scintigraphy in man, 23:48151
use of technetium-99m-labeled, for diagnosis of brain lesions, 21:28573
use of technetium-99m-labeled, for joint scanning in patients with synovitis, 23:48133
use of technetium-99m-labeled, for salivary gland scanning in man, 23:41372
use of technetium-99m-labeled, for scanning, 23:50739
use of technetium-99m-labeled, for scanning brain, 23:50700
use of technetium-99m-labeled, for scanning brain, 23:33776
use of technetium-99m-labeled, for scanning kidneys, 23:50731
use of technetium-99m-labeled, for scanning metastatic thyroid carcinomas in lungs, 21:10971
use of technetium-99m-labeled, for scanning of heart anatomy and blood circulation, 23:38651
use of technetium-99m-labeled, for scanning of joints in man, 23:41374

PERTECHNETIC ACID
chemical properties of, 21:19637
separation by solvent extraction using butyl sulfoxide, 24:16645

PERTURBATION THEORY
accuracy of first-order, for uniformly rotating polytropes, (T), 22:2748
amplitude-phase solutions for bound-state, 24:37943
amplitudes at high energies in quantum electrodynamics, algebraic structure of, 22:3511
amplitudes in, asymptotic behavior of production, 21:4135
amplitudes in, physical regions of six-particle processes for many-sheeted singularity structure of, 24:10863
analysis of asymptotic flux tilt and eigenvalue separation relationship, 24:20603 (KAPL-P-3872)
anharmonic oscillator in, 23:34514
anharmonic oscillator in, summation methods for series for generalized, 25:47697
anomalies in renormalized, lectures on, 25:33802
applications of t-matrix, 25:10068
atomic energy level shifts in, electron correlation in, 24:45055
axial charge in, 25:30982
Bjorken limit in, breakdown of, 24:37749
book: Advanced Quantum Theory, 23:42529
book: Commutation Properties of Hilbert Space Operators and Related Topics, 22:20105
book: Elements of Advanced Quantum Mechanics, 23:46639

- book: Perturbation Theory and Its Applications in Quantum Mechanics, 21:21128
- calculation of Weinberg sum rules in sigma-model, 22:24726
- calculations for nuclear structure, realistic two-body forces in, 24:24672
- calculations in quantum electrodynamics, comparison of S-matrix and, 22:22444
- causal distributions in, singularity structure of, 25:12133
- commutation relations in renormalized field theories for π + sigma interactions and π^2sigma and π^2 sigma^2 coupling in, equal-time, 23:39719
- commutation relations in, saturation of equal-time charge, 21:44347
- commutator products in, Baker—Hausdorff formula for properties of higher-order, 22:41832
- convergence for charged-scalar static model, 24:45581
- convergence in Hartree—Fock approximation for nuclei, 23:17128 (MIT-2098-518)
- current commutators for renormalizable quark model in spectral representation for matrix elements of equal-time, 22:20213 (JINR-P2-3661)
- current commutators in second-order, field-theoretic model for equal-time behavior of, 23:44707
- current commutators in, Bjorken—Johnson-Low limit for, 24:40461
- current commutators in, Schwinger terms from equal-time pseudolimits of, 23:46817
- current commutators in, singular equal-time behavior of, 23:8839
- current commutators in, spectral representation for matrix elements of equal-time, 23:15221
- current operators in, equal time commutators of renormalized, 21:11804 (DESY-66/24)
- current—current commutators for sigma model in, equal-time, 22:39300 (JINR-P2-3827)
- cutoff in, macroscopic causality and S-matrix unitarity in, 24:28450 (JINR-P2-4952)
- density matrices for, formalism of reduced, 25:17334
- derivation and representation of Rayleigh—Schroedinger, 23:1565
- derivation of generalized, for bi-linear functionals of the real and adjoint neutron fluxes in critical multiplying systems, 22:6179
- development for Feshbach resonances in scattering, 21:23013
- development of Brillouin-Wigner form of quantum-statistical, (T), 21:13656
- development of modern, for reactor physics calculations, 22:20849
- development of, for complex systems, 23:51822
- diagrams containing composite particles in model field theory, analytic properties of, 22:3522
- diagrams in, behavior of very-high-order, 22:32205
- distortion operator method and Pade approximants in, 24:24458
- divergence condition for axial-vector current in vector gluon model with Thirring interaction, 25:19984
- divergence in Born series, new method of removal of, (T), 24:3478
- divergence of renormalized, for anharmonic oscillator, 24:22002
- divergences in nonleptonic weak matrix elements in, 23:34570
- eigenvalues and solutions to Schroedinger equation for Gauss potential for large coupling constants, 24:20248
- electroproduction sum rules in, invalidity of Callan—Gross, 23:25560
- energy as perturbation in, kinetic, 22:7414
- energy as perturbation in, kinetic, 22:14100
- energy levels for light atoms, Feynman diagrams for first and second orders for, 22:21864
- equations of motion for time-dependent systems in, solutions to, 24:24203
- error bounds for nth-order energies and wave functions in Rayleigh—Schroedinger, 25:55891
- exchange diagrams in, algebraic method for unitarizing, 23:23560
- expansion of principle of compensation of dangerous diagrams by, 21:18864
- Fermi rule of time-dependent, quantum field theory formalism for derivation of, 25:14775
- Feynman amplitudes in, parametric integral representations of renormalized, 23:44704
- Feynman parameter representation of diagrams in, 23:15231
- Feynman parameter representations for momentum and configuration-space diagrams in, 23:15233
- Feynman parameter representations in, renormalization procedure in, 23:15232
- fields in, singularity in Heisenberg two-particle matrix element of neutral scalar, 21:5417
- five-point function and singularity manifolds in, Feynman graph of, 25:56551
- fluctuation—dissipation theorems by, 24:18052
- folded diagrams for, derivation of, 25:43519
- for Dirac equation with central electrostatic potential, 22:19793
- for retarded-temperature Green's function, 22:17841
- formalism for almost-degenerate problems, use of partitioning techniques in, 24:37272
- formalism for baryon octet mass sum rule, 21:29550
- formalism for composite particles, 22:44343
- formalism for degenerate, almost-degenerate, and electron-exchange problems, use of partitioning techniques in, 24:37273
- formalism for electron-exchange problems in, use of partitioning techniques in, 24:37271
- formalism for gravitational field—electromagnetic field interactions, 22:35116
- formalism for low-energy scattering from singular potentials, 21:33792
- formalism for massive Yang—Mills fields, 23:5668
- formalism for potential with core in three-body scattering, 24:43071
- formalism for quantum field theory, 24:33042
- formalism for reaction amplitudes for pseudoscalar mesons on spin-$^{1}/_{2}$ fermions in fourth-order, 22:46443
- formalism for response to time-dependent interactions in quantum mechanics, 22:46296
- formalism for scattering, 21:9857
- formalism using variational principles of neutron diffusion theory, 21:38210
- formalism using variational principles of neutron diffusion theory, 22:1585
- formulas for use of one-group, for calculation of buckling in fuel elements, 21:2873 (AE-248)
- formulation for bound-state energies in nonrelativistic quantum mechanics, 24:51874
- formulation for Yang—Mills fields, 23:3792 (IPNO/LA-68/28)
- formulation of Coulomb-wave, for atom excitation or ionization by electron impact, 22:9075
- formulation of covariant, 23:39797
- formulation of Hartree—Fock, for many-electron systems, nonorthogonal, 22:21877
- formulation of renormalized relativistic, from quantum field theory, 21:46580
- formulation of super, for scattering problems, 22:45929
- formulation of super-, for scattering, 22:50382
- formulation of time-dependent, 22:5480
- formulation without divergences, in field theory with semi-definite metrics, 22:32202
- fuel burnup calculations using, equations for, 22:10080 (NAA-SR-Memo-12491)
- gauge invariance conservation in, Pauli—Villars regularization for, 24:37889
- Goldstone theorem and the Jahn—Teller effect, 21:37646
- group theory for, book on, 24:15611
- Hartree—Fock states for, in atomic calculations, 21:37172
- interchange theorems for triple, 25:43520
- Lagrangian in, chiral-invariant pion, 25:33711
- Landau curves in, node-cusp developments on, 24:1669
- mass parameters of functions in momentum space in, Hankel transforms for internal, 23:32640
- matrix method alternative for eigenvalue calculations, 24:20037
- meson field theory in lattice space in, 22:41859
- method for quantum mechanical problems, 21:13661
- model for non-Regge terms in single current amplitude, 22:3541
- model for sum rules from current algebra, 22:3294
- model of complex angular momentum theory, signature properties in, 22:41875
- neutron cross-section measurements for, effects on Doppler coefficient of temperature-dependent, (T), 22:35709
- numerical analyses of higher order reactor, 23:43203
- operator equations in, (T), 22:3227
- Pade approximants for eigenvalues of anharmonic oscillator, 24:10817
- Pade approximants for N—N system, unitary, 23:18926
- Pade approximants for off-mass-shell scattering amplitude, determination of bound states from, 23:19013
- Pade approximants in, properties of denominators of diagonal, 24:13198
- Pade approximation in potential scattering and field—theoretic models, properties and applications of, 25:40975
- Pade approximation to vacuum expectation value of exponential operators, 25:9847
- PCAC and CVC hypotheses in, sigma model for divergence conditions in, 25:43689
- phase shifts in arbitrary order of, use of evolution operator concept in, 23:13007
- prediction of vacuum energy divergence in unrenormalized Hamiltonian in quantum field theory, 24:10833
- propagators in square diagrams of, insertions of complex, 22:3507
- quantization of gauge-invariant fields in, 22:26683 (ITF-67-36)
- quantum field, in the case of two states in open shells, 22:13609(T) (ANL-Trans-551)
- quantum mechanical curvature theorem, 25:1344
- quantum oscillator in renormalized, weakly nonlinear, 24:15661
- quantum-mechanical, error bounds for, 23:18758
- Regge poles and cuts in, mixing of, 22:29771
- relativistic kinetic, short-wavelength approximation in general, 23:41895
- renormalization of models in, with PCAC, 23:36982
- renormalization theorem and space-like regularization in, Bogoliubov—Parasiuk—Hepp, 21:40277
- S operator in, formalism for obtaining, 23:25692
- S-matrix in, asymptotic quantum field theory for, 22:44517
- S-matrix in, unitarity in, 22:15858
- S-matrix of local, conditions on stress tensor for Poincare invariance of, 25:41110 (UCRL-20697)
- scale invariance breakdown in generalized Bjorken limit of, 25:30783
- scale invariance in, breakdown of, 25:1615
- scaling invariance in generalized Bjorken limit of, breakdown for meson—nucleon and deeply inelastic electron—hadron interactions of, 25:1438 (AD-706834)
- scattering amplitudes at fixed angle in, high-energy behavior of, 24:52215
- scattering amplitudes in second-order, conserved currents, Reggeization, and Mandelstam counting in, 25:30992
- scattering amplitudes in, unitarity and fixed poles of weak, 25:9898
- scattering in, smooth method for solution of general equations for multiple-wave, 22:46556
- scattering theory formalism extension in, distortion operator for, 22:46550
- Schroedinger solutions in, perturbation method for, 25:3229
- Schroedinger, upper and lower bounds in second-order, (T), 23:18756
- Schwinger terms in, 21:37731
- Schwinger terms in, equal-time limits of current commutators for derivation of, 25:12294
- second-order, for interacting system of atoms or ions, 21:43785
- series in operator and superoperator formalism, 25:33502
- singular perturbation problems with turning points, 24:9185 (LA-4290)
- solution for calculation of optimum design parameters of reactors, (T), 23:49666
- solution for equations of second order, for error estimation in reactivity measurement of fast reactor, 22:37558 (IA-1156)
- solution for fast reactor physics measurements, (T), 24:22505
- solution for LMFBR reactivity variations, BISYN—PERT computer program for two dimensional, 24:13636 (GEAP-10046)
- solution for variations in reactivity effects, (T), 23:49653 (FEI-136)
- solution of progressive substitution method, for buckling and critical radius calculations, (E/T), 23:49652 (EURFNR-684)
- solution of terminated ramp and pseudo-random chain code, for optimum reactivity parameters at 20 MW(t) of Dragon Reactor, 22:35420 (AEEW-R-571)
- solution of two dimensional, for fast reactor kinetics, 23:52445 (BNWL-1162)
- sum rules in, breakdown of asymptotic, 23:25599
- summation in, use of inhomogeneous Schroedinger equation for closed-form implicit, 24:30417
- summations in secnd-order, variational principles from Schwarz inequality for, 24:28456
- T products in, canonical equal-time commutators for high-energy behavior of, 24:8709
- T-matrix for Faddeev equations in, 25:53364
- tetrahedron graphs in, duality of nonplanar, 25:9693
- theory for anharmonic oscillator large-order behavior in, 25:50178
- theory for partly gentle, for annihilation—creation operators, 21:42291
- theory for, limitations of nonlocal, 22:26690 (JINR-P2-3590, pp 44-5)
- theory for, many-body problem in terms of particle group functions in, 23:18828
- Thirring four-fermion model in, 22:5650
- Thomas—Fermi method in, exact, 21:31504
- transform for use in, properties and applications of, 25:11735
- transition amplitudes for spin-one particles in crossed magnetic fields, (T), 25:1353
- transition rates between states in, 21:29393
- treatment of symmetry properties in, 23:18759
- triangle graphs in, Mercedes graph as superposition of, 23:13139
- turbulence in, methods of nonlinear mechanics in weak, 24:10219 (MPI-PAE/Astro-24)
- unified approach for regular interactions, 23:17009
- use for calculation of reactor fuel burnup, (T), 23:47313 (CNM-R-2(Vol.3), pp 1384-97)
- use in analysis of nonlinear boundary-value problems, 23:21031
- use in calculations of transition-element spectra, effective interactions method in, 23:18410
- use in linear transport theory, 24:30419
- use in many-body problems, 21:40137
- use in nuclear theory, 22:1740
- use in quantum-mechanical treatment of nonrelativistic three-body bound-state problem, 23:27725
- use of exchange, for energy level calculation on H_2 at large separations, 23:18389
- use of exchange, for molecular excited states, problems in, 25:58702
- use of finite-temperature, for derivation of transport equations for electron-impurity model, 24:1491
- use of high order, for calculation of reactivity effects in reactors, 23:40452
- use of high-order, for calculations on one-electron ions in uniform electric fields, 23:1198
- use of Rayleigh—Schroedinger, in hydrogen-atom problem, reasons for failure in, 25:58811
- use with variational principle for variational wave functions, 22:3234
- validity of, linear soluble Fermi-gas model for testing, 21:17003
- variational principle analysis of bilinear, (T), 24:33509
- variational principles in, complementary, 22:24494
- vertex parts in, algorithms for γ-algebra of electromagnetic form factors for computer programs for evaluating high-order, 25:59360
- Ward identities in renormalized, anomalous, 25:30935
- Ward identity in, anomalous, 24:43029
- wave equation solutions using perturbation expansions, 25:12054
- Weinberg formulation at infinite momentum, 24:3737
- Yang—Mills fields in, massive, 23:25683 (CERN-69-7, pp 391-3)

PERU
- copper deposits in, age estimation using argon/potassium method, 21:39034 (COO-689-76, App.A-VI)
- nuclear power development in, program for, 25:54041 (A/CONF.49/P-796)
- nuclear power plant economics in remote regions of, 24:33192
- nuclear power—desalination plant economics in Lima area, 22:44880 (NP-17508)

PERYLENE
- effects of coatings of, on γ radiolysis products of poly(vinyl chloride), ESR studies on, 25:34656
- electron attachment cross sections for, nondissociative, 22:35777 (ORNL-TM-2216)
- enthalpies of combustion and formation and strain energy for, 21:34248 (COO-1149-92)

  - radiation effects on triplet-singlet energy transfer in benzophenone-containing solutions of, spectral studies on, 22:27626 (MIT-905-108, pp 33-62)
  - radiolysis of polystyrene solutions of, spectral studies on electron, 22:10276
  - radiolysis of, adsorbed on porous Vycor glass, γ, 24:16607
  - spectra of, excimer emission electrochemiluminescence, 22:27626 (MIT-905-108, pp 33-62)
  - thermodynamic properties of, at low temperatures, 21:10303(R) (COO-1149-79)
- PERXENATES
    - see also Americium Perxenates
    - see also Sodium Perxenates
  - effects on oxidation of hexavalent neptunium ions, 22:48846(T) (ANL-Trans-670)
- PESTICIDES
    - see also Arachnicides
    - see also Fungicides
    - see also Herbicides
    - see also Insecticides
    - see also Phosphorothioic Acid, O,O-Diethyl O-[4-(methylthio)-3,5-xylyl] Ester
    - see also Phosphorothioic Acid, O,O-Dimethyl O-[4-(methylthio)-m-tolyl] Ester
  - analysis by activation methods, 21:20029 (STI/PUB-123)
  - analysis for mercury by activation methods, factors interfering with, 25:48477
  - analysis of residue of, cleaning of nickel-63 electron capture detectors used for, 22:19174
  - analysis of residues from, review on methods for, 25:31781
  - analysis of residues of, for chlorine by neutron activation and γ spectrometry, 24:110
  - analysis of residues of, use of nickel-63 foils with electron-capture detectors for, 22:2439
  - analysis of, on agricultural materials for bromine and mercury, sensitivities for automated activation, 21:10254(R) (TEES-2671-5)
  - assay in algae and pesticides using liquid scintillation, 24:4428
  - book: Technological Injury. The Effect of Technological Advances on Environment, Life, and Society, 24:25433
  - contamination of environment, implications of radioecology for studies of, 23:17965 (CONF-670503-, pp 32-8)
  - cycling in ecosystems, kinetic model of, 25:37747 (BNWL-SA-3873)
  - detection of residues of, use of radioisotopes for, 21:20029 (STI/PUB-123)
  - determination in human tissues by activation methods, 24:38793
  - determination in plant materials by neutron activation, 23:4539
  - determination in tissues by electron-capture gas chromatography, 25:10433 (ORNL-4636, pp 1-7)
  - determination in water, review of methods for, 21:21904
  - determination of carbon-14-labeled, in biological materials, design of apparatus for combustion, 21:8206
  - determination of residues of, in crops by neutron activation methods, 22:42636
  - determination of residues of, in grains by neutron activation methods, 22:48835
  - determination of residues of, in vegetation by neutron activation and γ spectrometry, 24:110
  - effects of γ-irradiated, on activity inhibition of carboxylesterases, 23:35236
  - effects on animals and plants of litter and soil of fescue meadow, 24:39463 (ORNL-4446, pp 76-112)
  - effects on calcium-45 transport through apple skins, 22:49192
  - effects on cesium-137 and strontium-90 movement in soils, 23:7627(R) (COO-414-8)
  - effects on mutation frequency in natural populations of Drosophila, 23:48015 (SAN-529-12)
  - effects on oysters and shrimp, detoxification studies of, 24:5980
  - effects on populations of invertebrates in forest soils, 23:9904 (ORNL-4316, pp 71-160)
  - efficiency of, use of radiotracers to determine, 21:4893
  - hazards of, reduction of drift method for determination of, 22:6194 (BNWL-SA-1480)
  - health hazards from, in circumpolar regions, 23:29478
  - labeling with gold-198, techniques for, 22:6747
  - mercury-203 from, accumulation of, by grains of rice plants, 21:45543
  - metabolism in animals, 22:51445
  - radiation effects on degradation of phorate and disulfoton, γ, 23:35236
  - radiation effects on organophosphorus-containing, 23:2238
  - research on pollution from, joint FAO and IAEA, 25:52285 (A/CONF.49/P-772)
  - research on, review of radioisotopes in, 25:42239
  - residue in relation to environmental contamination, conference on use of nuclear techniques to study, 25:8583 (STI/PUB-252)
  - retention of residues from aldrin, endrin, and heptachlor epoxide, on Irish and sweet potatoes, effects of processing methods on, 25:24529
  - toxicity in food, 21:20029 (STI/PUB-123)
  - transport through ecological systems of Long Island estuaries, 22:14905 (BNL-50057, pp 111-22)
- Peteosthor
    - see Radium Isotopes Ra-224
- PETN
    - see Pentaerythritol Tetranitrate
- PETROGRAPHY
  - methods for use in, review of radiometric geophysical, 25:21198
- PETROLATUM
  - effectiveness of ointments containing, for topical treatment of human radiodermatitis, 22:28618
- PETROLEUM
  - analysis for elemental sulfur by isotopic dilution, 23:28716
  - analysis for heteroatom content by radiation absorption, apparatus for, 21:32105
  - analysis for heteroatom content, radioactive absorption method for, 22:27602
  - analysis for hydrocarbons, 21:45000 (UCRL-17758)
  - analysis for hydrogen and sulfur by radiation absorption, 21:32105
  - analysis for nickel and vanadium by neutron activation and γ spectrometry, 23:47409
  - analysis for nitrogen by fast-neutron activation, effects of matrix on, 23:37920
  - analysis for oxygen and sulfur by fast-neutron activation methods, 22:51
  - analysis for sodium chloride, sulfur, and water by neutron activation, 23:31311
  - analysis for sulfur, calibration of iron-55 x-ray attenuation gage for, 24:39379
  - analysis for sulfur, effects of interfering elements on activation, 22:48831
  - analysis for sulfur, radiometric instruments for, 25:35040
  - analysis for trace amounts of selenium by neutron activation, 23:35039
  - analysis for trace amounts of sulfur, combustion and radiometric method for, 23:24
  - analysis for trace elements by neutron activation methods, 22:1989
  - analysis for trace elements by neutron activation and γ spectrometry, 25:46452
  - analysis for trace impurities by neutron activation methods, 21:30361
  - analysis for trace impurities for production control, 24:26924
  - analysis for vanadium by activation methods, 21:30357
  - analysis for vanadium by activation methods, 21:45033
  - analysis for vanadium by activation methods, 21:30357
  - analysis for vanadium by activation techniques using neutron generator based on bombardment of hydrogen-2 with hydrogen-3, 23:40588
  - analysis for vanadium by neutron activation, 23:17380
  - analysis for vanadium by neutron activation and γ spectrometry, 23:11458
  - analysis for vanadium by neutron activation in IAN-R1 reactor, 24:38770 (PRNC-135, pp 93-7)
  - analysis for vanadium, spectrophotometric method for, 22:14467
  - analysis for various elements by atomic absorption spectrophotometry, 23:19626
  - analysis of ash and fractions of, for copper and manganese by neutron activation, 23:45233
  - analysis of crude ad residual, for trace elements by neutron activation methods, 24:48049 (GA-9889)
  - analysis of crude and fuel, for trace elements by neutron activation and γ spectrometry, 25:31879
  - analysis of crude, for trace amounts of elements by neutron activation methods, 24:16454
  - analysis of crude, for trace elements by neutron activation and γ spectrometry, 25:46467
  - analysis of crude, for water, salt, and sulfur by continuous neutron activation and γ spectrometry, 24:153
  - analysis of crude, review on methods for, 25:31782
  - analysis of distillation residues of, for manganese and sodium by neutron activation and γ spectrometry, 24:18917
  - analysis of marine fuel oils from, for trace elements by neutron activation and γ spectrometry, 24:113
  - analysis of residual, for vanadium by thermal neutron activation and scintillation counting, 24:43972
  - analysis of Thuringian Basin samples of, for carbon-13, 22:42634
  - analysis of, for oxygen using beta counting from liquid and plastic scintillators, activation, 21:12306
  - analysis of, for sulfur content, x-ray absorption method for, 21:4453
  - argon origin and isotopic composition in, in USSR, 21:28089
  - book: Aspects and Perspectives of Nuclear-Geophysical Methods for Exploration and Prospecting of Natural Resources, 23:43406
  - book: Use of Radioisotopes for Control in Development of Petroleum Deposits, (in Russian), 23:4743
  - calorific value of flowing, neutron radiometric gage for measuring, 25:18817(P)
  - calorific values of heavy, use of neutron sources with boron trifluoride proportional detectors for measuring, 22:30885
  - carbon-12 and carbon-13 distribution in, correlation of theoretical method of formation and thermodynamics of, 25:13005
  - cesium-137 content of, following production stimulation by contained nuclear explosion, (E/T), 25:54826(T) (UCRL-Trans-10543, pp 99-116)
  - combustion of, use of carbon-14 tracer techniques to study, 22:8320
  - conference on prospecting for, London, May 3 to 24, 1969, 25:21172
  - consumption for electric power generation, predictions to 1985 of US, 22:48958
  - cracking and refining of, economics of nuclear reactor heat for, 25:51213 (JUL-745-RG)
  - deposits of, effect of γ field at earth's surface on presence of, 21:8436
  - deposits of, use of γ field for location of, 21:34334
  - derivatives of, radioprotective effects of antioxidants of, on rats, x, 24:39518(T) (JPRS-50859)
  - determination relative to water in boreholes by neutron absorption by hydrogen, 24:41430(P)
  - deuterium content of USSR, 23:21811
  - deuterium exchange between methane and underground water in deposits of, 22:42673
  - deuterium/hydrogen ratio in, 24:20883
  - economic effect of nuclear power production on, 23:28380
  - economics in Netherlands for fuel oil, analysis during 1960 to 1980 of supply-and-demand, 23:21428
  - effects of cost of Middle East, on development of nuclear power, 25:44146
  - exploration by gamma well logging, equipment and methods for, 22:2375
  - exploration by radiometric well logging, equipment and method for, 23:7630(P)
  - exploration for, acoustic and radiometric well logging methods for, 24:7521
  - exploration for, gamma and neutron well logging methods for, 23:2415
  - exploration for, neutron well logging methods for, 23:47867(T) (NSJ-tr-146)
  - exploration for, pulsed neutron well logging method for, 24:31481
  - exploration for, use of radioisotopes and tracer techniques in, 21:39029 (AERE-R-5368)
  - flow from runaway oil field wells, use of contained nuclear explosions for stopping, 25:54825(T) (UCRL-Trans-10543, pp 81-98)
  - flow in reservoirs, 21:8491(R) (UCRL-50008-66-1)
  - isotope distribution in deposits of, method for measurement of, 23:35326
  - monitoring in aquatic systems, carbon isotope ratios method for, 22:35928
  - nuclear magnetic resonance of, double, 23:14888
  - pipeline transport of, use of tracer techniques for measurement of, 22:14694
  - plasma of, thermodynamic and electric properties of, (T), 22:17436
  - processing for extraction of alkylphenanthrene from, method for, 21:21717
  - processing of crude, for isotropic graphite preparation, 22:23875(P)
  - processing of crude, review on automation of analytical procedures in, 25:31782
  - processing underground, reactor design for, 21:30244(P)
  - product development from, use of radioisotopes in, 22:8320
  - production by retorting oil shales in underground nuclear explosion chimneys using reactor heat, 22:42937 (UCRL-50380)
  - production equipment at Baxterville, Miss., for, effects of Sterling Event on, 22:25559 (VUF-1041)
  - production from oil shales, use of tritiated gas tracer method in, 22:14692
  - production from oil shales, use of underground nuclear explosions for, 21:45273 (ORNL-4145, pp 234-9)
  - production in Japan, effects of nuclear power generation on, 23:31462
  - production of, nuclear geophysical methods in, 23:35327
  - production of, nuclear or physical methods in, 23:35431
  - production of, radioactivity applications in, 21:28175
  - production of, use of nuclear explosions in crushing shale for, 21:45273 (ORNL-4145, pp 234-9)
  - production of, use of radioisotope tracer methods in, 22:14690
  - production of, use of radioisotope tracer methods in, 22:14689
  - production of, use of radioisotopes in research on, 22:40330
  - production of, use of underground nuclear explosions in, 21:1484(T) (AEC-tr-6777)
  - production of, use of underground nuclear explosions for, 23:6237
  - production stimulation by contained nuclear explosion, calculation of contamination from, 25:54826(T) (UCRL-Trans-10543, pp 99-116)
  - production stimulation by underground nuclear explosions, review on projects for, 24:16732
  - production stimulation using contained underground nuclear explosions, 24:25156
  - production stimulation using contained underground nuclear explosions, method for, 25:34772(P)
  - production stimulation using nuclear explosions, feasibility studies of, 24:41500 (CONF-700101-(Vol.1), pp 567-76)
  - production stimulation using nuclear explosions, review of USSR projects for, 25:37517
  - production stimulation using nuclear explosives, numerical simulation of, 24:41502 (CONF-700101-(Vol.1), pp 649-61)
  - production stimulation using underground nuclear explosives, economic and technical aspects of, 25:10746
  - production stimulation using underground nuclear explosions, radiation hazards from, 25:54823(T) (UCRL-Trans-10543, pp 56-69)
  - production stimulation using underground nuclear explosions, economic and feasibility studies of, 24:27256 (CONF-680334-1)
  - production stimulation using underground nuclear explosions, safety and economics of, 25:39619 (CONF-710511-4)
  - production stimulation using underground nuclear explosions, USSR studies on, 25:54822(T) (UCRL-Trans-10543, pp 42-55)
  - production stimulation using underground nuclear explosions, 24:41466 (CEA-R-3968)
  - production stimulation using underground nuclear explosions, problems resulting from, 25:2382
  - production stimulation using underground nuclear explosions, safety problems associated with, 24:44157
  - production stimulation using underground nuclear explosions, feasibility of, 23:40907(T) (JPRS-48338)
  - production stimulation using underground nuclear explosions, 24:11715
  - production stimulation using underground nuclear explosions, Project Dragon Trail feasibility studies of, 24:27263
  - production using underground nuclear explosions, review of progress in, 22:51130
  - production with underground nuclear explosions, economics of, 21:39072 (PNE-3005)
  - prospecting and surveying for, review of isotopic tracer method for, 22:19050

prospecting for, by radiometric well logging, 21:45239
prospecting for, comparison of soil radioactivity mapping and soil redox mapping methods of, 25:34731
prospecting for, design of neutron—gamma well logging equipment for, 24:27223(P)
prospecting for, development of neutron generator for, 22:11754
prospecting for, development of neutron generator for, 22:11754
prospecting for, method using helium content of ground waters, 24:48166(T) (UCRL-Trans-10483)
prospecting for, neutron method for, 23:35328
prospecting for, neutron-neutron well logging method for, 24:2314
prospecting for, pulsed neutron-neutron well logging method for use in separation of oil- and water-bearing formations in, 24:5744
prospecting for, radiometric equipment and method for, 25:46562
prospecting for, radiometric well logging method for, 25:21174
prospecting for, review of radiometric geophysical methods for, 25:21198
prospecting for, review of radiometric methods for, 25:34730
prospecting for, use of natural gamma radiation measurements for, 25:15768
prospecting for, use of radium content in stratal underground water in geochemical, 22:12433
prospecting for, using ground water radioactivity measurements, 24:16693
prospecting for, well logging equipment and method for, 25:23899(P)
prospecting for, well logging method using neutron tube for, 22:30886
prospecting in Egypt, radiometric methods for, 24:44108
prospecting in India, status of nuclear methods for, 25:41947
prospecting using gamma detectors and neutron sources, 25:32138
pyrolysis product deposition on heating surfaces from heat conducting light-fraction, effects of polymer additions on, 24:46420
radiation effects on aging of, in contact with structural materials, 22:14524
radiation effects on products of, review of, 21:10178
radiation effects on SU and IS-45, γ, 23:40706
radiation effects on SU and IS-45, γ and neutron, 23:40707
radiation effects on wastes of, γ, 23:50960
radiation processing of, 25:29128
radioinduced cracking of, using SHF plasmatron, 21:12475
radioinduced oxidation of dearomatized and deparaffinized, effects of water on, 22:16575
radioinduced oxidation of dearomatized diesel, effects of water on, 22:16575
radioinduced oxidation of products from radiolysis of, effects of water emulsion on, 21:23987
radioinduced thermal cracking of, at 500°C, reactor, 22:2121
radioisotope uses in industrial processing of, 21:1347
radiolysis of fractions of, stability in, 21:21978
radiolysis of PEMEX lubricants and refinery residual, effects of dose on yields from electron and γ, 22:33471
radiolysis of products of, mass spectrometric study of mechanism of, 21:43007
radiolysis of residues after distillation of, production of light hydrocarbons by electron, 25:41853 (NP-18817)
radiolysis of water emulsions of, oxidation of products from, 21:23989
radiolysis of, oxidation of products from, 21:23989
radiolysis of, production of new products by, 25:57478
radioprotective effects of products of, on rats, 22:25876
recovery by fracturing oil shales by nuclear explosions, 25:54816 (ORNL-4682, pp 182-6)
recovery from deep oil shales using underground nuclear explosions, US Bureau of Mines research on, 24:41540 (CONF-700101-(Vol.2), pp 1364-75)
recovery from nuclear chimneys in oil-yielding solids, method for, 23:43428(P)
recovery from oil shale using nuclear explosives, fission product and tritium contamination in, 23:362 (ORNL-4272, pp 187-91)
recovery from oil shale, evaluation of Bronco BR-1 hole core data for, 23:21808 (TID-24709)
recovery from oil shale, use of nuclear explosions for, 21:207
recovery from oil shale, use of underground nuclear explosions for, 21:17747 (ORNL-TM-1775)
recovery from oil shales fractured by nuclear explosions, 25:2380 (ORNL-4572, pp 196-8)
recovery from oil shales in Project Bravo, use of underground nuclear explosions for, 21:43081(R) (UCRL-50008-67-3)
recovery from oil shales using nuclear explosions, 22:10422
recovery from oil shales using nuclear explosions, design of Project Bronco for, 22:8244 (UCRL-50339)
recovery from oil shales using nuclear explosions, equipment and methods for, 21:204 (SC-RR-65-657)
recovery from oil shales using nuclear explosions, description of Project Bronco for, 24:41539 (CONF-700101-(Vol.2), pp 1343-63)
recovery from oil shales using nuclear explosives, 23:9600
recovery from oil shales using underground nuclear explosions, goals of Plowshare Program for, 24:41470 (CONF-700101-(Vol.1), pp 5-12)
recovery from oil shales using underground nuclear explosions, 23:16001
recovery from oil shales, use of nuclear explosions for, 23:29034
recovery from oil shales, use of nuclear explosions for, 21:204 (SC-RR-65-657)
recovery from oil shales, use of underground nuclear explosions for, 24:36450(P)
recovery from oil shales, use of underground nuclear explosions for, 21:43079 (PNE-3006)
recovery from oil shales, use of underground nuclear explosions for, 22:4301
recovery from oil shales, use of underground nuclear explosions for, 22:6507 (PNE-1400)
recovery from oil shales, use of underground nuclear explosions for, 22:30745(P)
recovery from oil shales, use of underground nuclear explosions in Project Bronco for, 22:30742
recovery from oil shales, use of underground nuclear explosions for, 21:30560(R) (ORNL-TM-1886)
recovery from shales using underground nuclear explosions, 22:12468(T) (UCRL-Trans-10200)
recovery from shales, use of nuclear explosions in, 22:23186(R) (ORNL-TM-2198)
recovery from shales, use of underground nuclear explosions for, 22:4295(R) (ORNL-TM-2062)
recovery of high-viscosity, using steam from geothermal heat in nuclear cavity, 25:4174
recovery of high-viscosity, using steam from geothermal heat in nuclear cavity, economic study of, 25:37521
recovery of, device for measuring oil shale permeability for, 23:17641 (UCRL-50562)
recovery using underground nuclear explosions, 22:27945(T) (JPRS-44486)
reduction of, use of process heat reactors in Germany for gas, 23:45116 (JUL-576-RG)
refining and transporting of, use of tracer techniques in, 21:17793
refining of, radioactive tracer method for measurement of waste-water flow from, 24:5748
refining of, use of activable tracers to determine process conditions during, 22:14707
refining of, use of germanium-77 as tracer to determine petroleum product behavior during, 22:14709
requirements in U.S. during 1970 to 1990, 24:24723
resources in Australia, 25:53886 (A/CONF.49/P-135)
resources in Australia to year 2000, 25:54014 (A/CONF.49/P-127)
resources in Canada for, comparison with nuclear fuels, 25:39350
resources in USA, progress in energy development of, 21:21852
retorting of, use of underground nuclear explosions in, 21:10493(R) (UCRL-50008-66-2)
seawater pollution by ship-released, radioactive tracer method for identifying origin of, 25:32145
separation of 120 cp mineral oil type, from dilute aqueous nitric acid using stacked-clone contactor, 21:36204 (ORNL-TM-1936)
solvent properties for radionuclides in underground nuclear explosion debris, 21:36183(R) (ORNL-TM-1932)
storage and recovery of, use of underground nuclear explosions for, 21:16037
storage in nuclear cavities, feasibility study of, 24:41538 (CONF-700101-(Vol.2), pp 1322-42)
storage in nuclear explosion-produced cavities, economic and technical aspects of, 25:10746
storage of crude offshore-produced, in undersea nuclear cavities, feasibility study of, 24:2336
strontium-89 content of, following production stimulation by contained nuclear explosion, (E/T), 25:54826(T) (UCRL-Trans-10543, pp 99-116)
sulfur content and composition of, variation of natural radioactivity with, 21:173
sulfur content of, radiometric gage for measurement of, 24:31613
sulfur isotope geochemistry of, 21:24107
sulfur-34 content in, effect of isotope fractionation on, 21:24107
supply and demand in USA, predictions to 1980, 21:45289
supply-and-demand projection to 1995 for heavy, effects of nuclear power plants on, 23:4146 (NP-17671)
transport from Alaska oil field, economics of nuclear powered submarines for, 24:43836
tritium contamination of shale, by underground nuclear explosions, 22:45208(R) (ORNL-TM-2298)
tritium contamination of, during oil shale processing using nuclear explosives, 24:36357(R) (ORNL-TM-3034)
tritium contamination of, during oil shale processing using nuclear explosives, 24:19053 (ORNL-TM-2888)
tritium contamination of, from oil shales fractured by nuclear explosions, 25:23723(R) (ORNL-TM-3337)
tritium contamination of, retorted from oil shales with nuclear explosions, 23:6236(R) (ORNL-TM-2399)
tritium contamination of, retorted from oil shales with nuclear explosions, 23:21840(R) (ORNL-TM-2502)
tritium content of, from oil shales fractured by nuclear explosives, 24:2269(R) (ORNL-TM-2756)
tritium content of, recovered from nuclearly-fractured oil shales, 24:41553 (CONF-700101-(Vol.2), pp 1597-1612)
tritium separation from shale, processed by underground nuclear explosions, 22:45208(R) (ORNL-TM-2298)
use as fuel for electric power generation, environmental effects of, 25:21231 (CONF-700816-(Vol.2), pp 459-66)
use as power plant fuel, environmental effects from, 25:37519
use of white spirits, in decontamination of fabrics, 22:6794 (CEA-R-3159)
uses in U.S. during 1965 to 1980, analysis of optimum economic, 24:13515
well logging method for, pulsed neutron, 24:313
yield from oil shales from Piceance Creek, Colorado, 21:30534 (TEI-870)
yield from oil shales from Yellow Creek, Colorado, 21:30533 (TEI-869)
mineral oil—terphenyl, radiation resistance of lubricants of, 22:11108(P)

Petroleum Ether
see Ligroine

PETROLEUM SPIRITS
analysis of white, for thorium-228 by delayed coincidence decay of radon-220 and polonium-216, 25:31837

PETTEN TEST REACTOR
description of, 22:20920
experimental facilities for, equipment for polarized thermal neutron studies at, 24:22101
moderator for, comparison fast neutron dose scale for radiation effects on graphite, 25:3872 (DP-Report-559)

Pewee Reactor
see Rover Reactors

PF-4
see Reactors, Research

PFR (Great Britain)
see Prototype Fast Reactor

PGCR
see Army Reactors (ML-1)

pH
see Hydrogen Ion Concentration

pH METERS
design of transistorized toroidal, 21:38

PHAEOPHYTA
see also Agar-Agar
analysis by neutron activation, 23:4553
analysis for boron, chlorine, and hydrogen by detection of prompt γ rays, 24:5606
analysis for boron, chlorine, and hydrogen by thermal neutron activation and γ spectrometry, 23:24133
Ascophyllum nodosum, radioisotope accumulation by, influence of cellular respiration inhibitors on, polonium-210 and plutonium-239, 25:10941
Ascophyllum nodosum, strontium-89 uptake and retention in, effects of sodium chloride content of water on, 22:43232
chemical composition of alginates from, of Canada and United States, effects of, on strontium radioisotope uptake from intestine of rats, 24:34059
Chorda sp., plutonium-239 uptake by marine, 21:22372
copper accumulation by, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
Cystoseira barbara, radioisotope uptake and exchange by, in seawater, calcium-45 and strontium-89, 23:9826(T) (AEC-tr-6940, pp 52-8)
Cystoseira barbata, radioisotope metabolism by, kinetic law analysis of, 23:26670
Cystoseira barbata, rhodium-106 content in, in Black Sea, 21:36605
Cystoseira barbata, ruthenium-106 content in, in Black Sea, 21:36605
Cystoseira barbata, strontium-90 determination in, from Black Sea, radiometric method for, 21:8809(T) (AEC-tr-6641, pp 121-7)
Cystoseira barbata, strontium-90 uptake by brown, 21:12799
Cystoseira sp., analysis for strontium-90 using liquid scintillation counters, 25:39855(T) (AEC-tr-7232, pp 135-44)
Cystoseira sp., radioisotope uptake by, in Black Sea during 1958 to 1960, 25:39854(T) (AEC-tr-7232, pp 112-34)
Cystoseria barbata, radioactivity monitoring in, of Black Sea off coast of Romania during 1964 to 1967, 25:26745
ecology in Amchitka Island, Alaska, feasibility studies for possible nuclear testing, 24:44454(R) (BMI-171-128)
ecology of benthic marine, at Amchitka Island, 23:26708 (BMI-171-115)
effects on uptake of strontium radioisotopes by animals and man, 23:43676
fission product scavenging from seawater by, 23:35353
Fucus serratus, strontium-89 uptake and retention in, effects of sodium chloride content of water on, 22:43232
Fucus sp., phosphorus-32 content of, in Columbia river, effects of Hanford reactors on ratio of phosphorus to, 24:690 (RLO-2047-5, App. A)
Fucus sp., radioactivity content of, in Connecticut during 1961 to 1964, β, 22:40694
Fucus sp., radioactivity content of, in Connecticut during 1961 to 1964, β, 22:28510
Fucus sp., radioisotope uptake by, effects of chelation on cobalt-60 and zinc-65, 24:34222
Fucus spiralis, radioisotope content of, in British coastal waters during 1968, 24:21099 (FRL-5)
Fucus vesiculosus, radioisotope content of, in British coastal waters during 1968, 24:21099 (FRL-5)
Fucus vesiculosus, radioisotope uptake by, cobalt-60 and zinc-65, 24:34220
Fucus vesiculosus, rubidium-106 uptake and distribution in, effects of temperature on, 25:26587
Fucus vesiculosus, strontium-89 uptake and retention in, effects of sodium chloride content of water on, 22:43232
iron-55 content in kelp, caught in Columbia River plume, 21:18018
Laminaria sp., radiation effects on gametes of, gamma, 21:9032
Laminaria sp., zinc-65 metabolism in, 24:34224
manganese accumulation by, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
Padina sp., strontium-90 distribution in, in Gulf of Mexico and Red Sea, 24:12028(T) (AEC-tr-7128, pp 51-6)
Phaeodactylum tricornutum, zinc-65 uptake by, in comparison to zinc uptake, effects of physico-chemical state on, 23:17897 (CONF-670503-, pp 389-98)
radiation effects on, effects of, on extracted agar, γ, 22:4702
radiation monitoring of, in Black Sea, 21:43376
radioactive contamination of Laminaria, from Far Eastern seas following weapons tests of 1958, 21:8807(T) (AEC-tr-6641, pp 105-14)

  radioisotope accumulation by, in aquariums and natural ecosystems, cerium-144, cesium-137, and ruthenium-106, 23:26783
  radioisotope concentration by tropical marine, 25:26597
  radioisotope content of alginic acid of, following accumulation from seawater, 25:13403
  radioisotope content of Pacific, in environs of reactors, 25:55151 (CONF-710817-1)
  radioisotope content of, in Amchitka, Alaska, 25:16073(R) (BMI-171-113)
  radioisotope uptake and retention by, effects of alginate content on calcium-45 and strontium-85, 22:45399
  radioisotope uptake by, phosphorus-32 and zinc-65, (E), 22:12455(R) (EUR-3635)
  radioprotective effects of sodium alginates from, 23:50611 (PHS-999-RH-33, pp 112-15)
  Sargassum fluitans, fallout fixation by, 21:10737
  Sargassum johnstoni, cesium-137 uptake by, from seawater in India, 23:14126
  Sargassum lendigerum, radioisotope uptake by, chromium-51, cesium-137, iron-59, manganese-54, potassium-42, rubidium-86, zinc-65, 23:12044 (PRNC-60)
  Sargassum natans, radioisotope content of, in Gulf of Mexico during 1965, cerium-144, manganese-54, ruthenium-106, strontium-90, 23:17961(T) (AEC-tr-7030, pp 49-64)
  Sargassum natans, strontium-90 distribution in, in Gulf of Mexico and Red Sea, 24:12028(T) (AEC-tr-7128, pp 51-6)
  Sargassum polyceratum, strontium-90 distribution in, in Gulf of Mexico and Red Sea, 24:12028(T) (AEC-tr-7128, pp 51-6)
  Sargassum sp., radiation monitoring of, from coast of India, natural background, 22:28463
  Sargassum sp., radioisotope sorption by, mechanism of, 23:17903 (CONF-670503-, pp 505-8)
  Sargassum sp., thorium-234 concentration factor for, in Caribbean Sea, Gulf of Mexico, and Sargasso Sea, 24:12030(T) (AEC-tr-7128, pp 59-61)
  strontium-89 metabolism in brown, 21:22348
  strontium-90 concentration factor for, in Japan, 24:34225
  strontium-90 content in marine, 23:35013
  strontium-90 content of marine, 23:26776
  strontium-90 content of, in Black Sea area ecosystems, 23:17986 (NP-17713)
  strontium-90 content of, in Black Sea, Atlantic Ocean, and Indian Ocean during 1961 to 1965, 23:9928(T) (AEC-tr-6940, pp 59-70)
  strontium-90 content of, in Gulf of Mexico and Red Sea, comparison of, 23:24578 (A-AC.82/G/L-1254, pp 3-9)
  strontium-90 uptake by, accumulation coefficient for, 24:9746
  strontium-90 uptake by, comparison of dead and living, 23:24499 (A-AC-82/G/L-1243, pp 26-30)
  thorium content of marine, on coast of India, 23:50463
  thorium-234 content of marine, in Atlantic and Pacific Oceans, 23:24580 (A-AC.82/G/L-1254, pp 13-17)
  uptake of plutonium-239 and uranium by Chorda filum, Laminaria saccharina, and Monostina fuscum, 21:22372
  uses as indicator of radioactive contamination in seawater, radiometric studies on, 21:8810(T) (AEC-tr-6641, pp 128-44)
  zinc accumulation by, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
Phaeton Project
  see Plowshare Project
PHAGOCYTOSIS
  see also Opsonins (plasma phagocytic promoting factors)
  activity in liver and spleen of mice, effects of isologous ribosome injections on, 22:19235(R) (COO-1282-1)
  activity in spleen of mice, effects of dimethylbenzanthracene and methylcholanthrene on, 22:19235(R) (COO-1282-1)
  activity in spleen of mice, effects of spontaneous mammary carcinomas and lymphomas on, 22:19235(R) (COO-1282-1)
  activity in spleen of mice, effects of tumor transplants on, 22:19235(R) (COO-1282-1)
  activity of cultured cells from reticulo-endothelial system of rats, effects of environmental factors on, 22:25229 (UR-49-919)
  analysis in leukocytes, tracer study of, 22:438
  analysis of leukocytic, in rabbits, effects of cystamine on, 22:25886
  analysis of, use of iodine-131-labeled macroaggregates of serum albumin for, 21:20236 (UCLA-12-612, pp 37-68)
  depression of colloidal particle, by macrophage cells of reticuloendothelial system, effects of opsonin on recovery from, 23:43709(R) (ORO-3853-85)
  effects on distribution and retention of plutonium oxide by rats following inhalation, 24:48384
  effects on metabolism in human leukocytes, 22:36180
  effects on recovery from radiation injuries, 21:26517
  effects on retention of gold-198 and iodine-131 by man, 24:19320
  effects on x-radiosensitivity of mice, 21:36632
  function in mice following x-radiation effects of capillaries, 24:34652
  function in peritoneum after administration of plutonium-239 oxide particles, 24:11925
  function in respiratory tract following aerosol inhalation, 23:43662 (UH-235-P-8-11)
  index in x-irradiated mice in relation to survival time, 24:32224
  measurement in vitro using iodine-131-labeled serum albumin uptake, 23:22198
  mechanisms in leukocytes and yeast cells in vitro, chromium-51 tracer studies of, 25:10908
  metabolism of glucose in man in relation to, by leukocytes, tracer study of, 23:11966 (CONF-671111-, pp 565-77)
  method for determining kinetics of, of gold radioisotope colloids by reticuloendothelial system of rats, 24:48376
  occurrence in lysosomes of epidermal cells of human skin, 21:39486 (ORO-3578-1)
  particle size effects on, of colloidal gold-198 in rabbits, 22:38469
  plutonium-239 removal by, in rat lungs following inhalation, 23:6375
  radiation effects on guinea pig, x, 21:39518
  radiation effects on kinetics of, following inhalation of radioactive particles, 23:47924(R) (UH-235-P-8-X-2)
  radiation effects on macrophage, 25:44779
  radiation effects on metabolism in human leukocytes during, x, 22:36180
  radiation effects on pathogen, in farm and laboratory animals, ionizing, 24:31865
  radiation effects on rat reticuloendothelial cell, protective effects of direct electric current against x, 25:42530
  radiation effects on RES, of rats, effects of dose fractionation and starvation on cobalt-60 γ, 23:35911
  radiation effects on, by cultured mouse reticuloendothelial cells, x, 21:22297
  radiation effects on, by dendritic macrophages of rat spleen, x, 23:29392 (ACRH-30, pp 58-64)
  radiation effects on, by guinea pig leukocytes, effects of hydrogen peroxide and oxygen on x, 23:41422
  radiation effects on, by leukocytes in human children following therapy for tumors, latent x, 23:6603
  radiation effects on, by leukocytes in patients during radiotherapy, γ and x, 21:22582
  radiation effects on, by leukocytes of mice, laser, 23:14269
  radiation effects on, by macrophages of necrotic cells in thymus of mice, x, 22:36195
  radiation effects on, by neutrophils in dogs, long-term, 24:7767
  radiation effects on, by RES of rats, effects of fractionated or single dose on x, 24:826
  radiation effects on, in Chinese hamster cells, uv, 21:18116(R) (NYO-2356-22)
  radiation effects on, in dogs, proton, 22:23670
  radiation effects on, in guinea pigs, acute x, 22:49281
  radiation effects on, in liver and spleen of mice and rats, x, 21:45841
  radiation effects on, in mice and rabbits, combined effects of alkaloids on, 21:36693
  radiation effects on, in mice, γ, 21:32752
  radiation effects on, in rabbit liver, lethal x, 25:32542
  radiation effects on, in rabbits and rats, thorium-232 α, 23:22376(T) (AEC-tr-6944, pp 359-74)
  radiation effects on, in rabbits used in combination with iodine-131, cobalt 60 γ, 21:22757
  radiation effects on, in rabbits, chronic zinc-65 γ, 25:21880
  radiation effects on, in rat blood, thorium α, 23:22439(T) (AEC-tr-6944, pp 710-12)
  radiation effects on, in rat lymph nodes, whole-body, 24:21275
  radiation effects on, in rats following injection of phosphorus-32-labeled chromium phosphate, β, 24:34151
  radiation effects on, in rats, effects of dose fractionation and fasting on cobalt-60 γ, 24:27682
  radiation effects on, in rats, effects of dose fractionation on, 23:14257
  radiation effects on, in reticulo-endothelial system of mice, effects of penicillins on x, 23:2921
  radiation effects on, in reticulo-endothelial system in rats, comparison of single dose with dose fractionation for cobalt-60 γ, 24:34096
  radiation effects on, in thymectomized mice, 21:22250
  radiation effects on, of bacteria in mice, effects of endotoxins on x, 23:35884
  radiation effects on, of carbon particles by reticulo-endothelial system in rats, γ, 22:45706
  radiation effects on, of carbon particles in India ink following injection in rats, 22:23617
  radiation effects on, of Escherichia coli by guinea pig leukocytes, in vitro x, 22:51909
  radiation effects on, of Escherichia coli following intracutaneous injection in rats, microwave and radio wave, 22:19406
  radiation effects on, of neutrophil leukocytes of nuclear personnel, chronic ionizing, 22:40896
  radiation effects on, of reticulo-endothelial system of rats, tracer study of ionizing, 22:23610
  radiation effects on, of reticuloendothelial cells in mice, effects of puromycin on γ, 22:45641
  radiation effects on, x, 21:22240(R) (NYO-3240-17)
  radioinduced stimulation of, in liver of mice, effects of dose on x, 24:48690
  radioinduced stimulation of, in mice, mechanism of x, 24:48687
  radioprotective effects of stimulation of, in rats, x, 21:43483
  rate in rat phagocytes in vitro, measurement of, 23:50244
  regulation of hepatic, effects of heparin, oxygen, pH, and temperature on, 22:10693
  role in localization of plutonium-238, plutonium-239, and uranium-235-labeled particles in lungs of dogs, 24:50687(R) (UH-235-P-8-X-3)
  stimulation in lymphocytes, characterization of factor from transplantable lymphosarcomas for, 23:2739 (CALT-642-X-9)
  uranium oxide effects on, from rat lung cell, 25:57923
  use as index of effects of radiation on immune response in mice, 21:16499
PHANTOMS
  activation of tissues in, decay spectrum for 58 MeV and 910 MeV α beam, 23:43833
  analysis for plutonium-239, lithium-drifted germanium detector for, 24:36559 (RFP-1488)
  analysis of cellulose, for barium by x-ray fluorescence, 23:24066 (UCRL-50569)
  analysis of human, for elements by neutron activation, methods for, 25:4042 (CONF-680211-, pp 496-516)
  analysis of human, simultaneously for calcium, chlorine, phosphorus, potassium, and sodium by 14-MeV neutron activation and γ spectrometry, 25:44818
  characteristics of standard man, in comparison to standard patient model, 24:50879 (CONF-691212-, pp 87-102)
  chromium-51 determination in water, in presence of iron-59, three-gate method for, 25:4513
  construction of organ, with arbitrary source distribution, use of radioactive beads for, 24:27579 (ANL-7615, pp 76-81)
  defects in liver, use of scanning for detection of, 22:6859
  design and use of line-source, for testing performance of scintillation cameras, 22:38039
  design for adjustment of gamma-ray imaging devices, 25:29328 (ORNL-TM-3261)
  design for calibration of whole-body gamma-spectrometers for determination of strontium-90 content of man, 22:8556
  design for γ dosimetry in curved surfaces during cesium-137 and cobalt-60 therapy, 22:8546
  design for radiation dose measurements to mother and fetus from radiography during pregnancy, 21:22448
  design for testing depth resolution of scanners, 22:37997 (UCLA-12-689)
  design for use in x-ray dosimetry during gynecological examinations, 21:18043
  design of 3-dimensional, for testing gamma imaging devices, 23:33434
  design of dental, for training in radiographic techniques, advantages of, 24:778
  design of head, for dosimetry of x radiation, 21:22554
  design of projection chest, for in vivo low-energy γ- and x-radiation dosimetry in lungs, 24:41883
  design of scaled, using radiographic cross sections of patients with tumors, for use for radiation dosimetry, 21:28256
  design of, containing human bone, for use in adjustment of x-ray equipment, 21:6499
  design of, containing water, for use in adjustment of x-ray equipment, 21:6499
  design of, for use in proton dosimetry, 21:6492 (ORNL-P-2568)
  design of, for use in testing depth resolution of radioisotope scintillation scanning equipment, 21:4816
  determination of organ depth in, use of double iodine isotope method for, 23:869
  development for comparison of gamma cameras and scintillation scanners for radioisotope scanning, 22:49418
  development for fast neutron dosimetry for therapy, 24:34354
  development of body-shaped and circular tissue-equivalent, for electron dosimetry in skin, 24:34543
  development of brain tumor, for testing effects of collimator resolution on technetium-99 scintiscans, 22:49417
  development of digital, for use in analysis of radioisotope scan data, 24:48620
  development of human child head tissue equivalent, for measurement of dose of x radiation to brain, eyes, and thyroid during therapy of tinea capitis, 25:16130 (BRH/DBE-70-4)
  development of human head, for use in teaching dental radiography, 23:9935 (MORP-68-8)
  development of laminated lucite plate human lung, for study of inhaled plutonium-239 distribution, 25:57998 (NIRS-Pu-8)
  development of masonite, with barium-filled simulated stomach for evaluation of grid combinations for diagnostic radiography, 23:45821
  development of mathematical human body, for radiation dose calculations for therapy, 24:31993
  development of plexiglass kidney, for calibration of scintigraph, 22:25943
  development of rabbit and rat, for neutron dosimetry, 25:18990 (ORNL-4584, pp 129-51)
  development of radiation shielded astronaut, for planning radiation protection programs for space flight, 25:26778
  development of small animal, for radiation dosimetry, 24:34332
  development of small animal, for radiation dosimetry, 24:34329
  development of thermoluminescent detector-impregnated, of malignant human lung for use in comparison of therapeutic dose of γ, 22:51612
  development of three-dimensional human, for testing radioisotope scanning systems, 23:14218 (ORO-2401-22)
  development of three-dimensional human, for testing radioisotope scanning systems, 23:14220 (ORO-2401-27, pp 3-51)
  development of three-dimensional, for evaluation of radioisotope scan images, 25:4657 (UCLA-12-782, pp 89-125)
  development of tumor-bearing human head, for use for evaluation of brain tumor scanning agents and systems, 24:29796
  development to determine sources of error in radiocardiography, using chromium-51 for scanning, 22:25776
  dose distribution measurements at bone—tissue interfaces in, extrapolation ionization detector for, 25:57851
  dose distribution to cylindrical, using thermoluminescent dosimeters for proton, 23:20238
  dose distributions in spherical water-filled, behind targets for 160-MeV protons, (T), 23:7281(R) (ORNL-4280)
  dose prediction for plutonium-238 heat sources implanted in, 24:39139(R) (BNWL-1308-2)
  effects of geometry of, on calculation of radiation dose arising from solar flux, 21:6514
  efficiency of, for determining distribution of x-ray dose in beagles, factors affecting, 21:16475

electron beam dose distribution in, film densitometry system for optimizing, 25:46844
electron depth distribution curves in polyethylene, 21:4805
electron depth dose measurements in Presdwood, Presdwood with inhomogeneities, and water, for radiotherapy, 22:51693
electron depth dose measurements in Rando, 35-MeV, 22:51692
electron dosimetry in Alderson-Rando, 42-MeV betatron, 25:26865
electron reactions with water, at 20 MeV, calculation of energy and charge deposition in, 23:50500
electron reactions with water, relation between absorbed dose and cavity ionization for, 23:50511
energy distribution in microscopic volume tissue, 40 MeV proton, 23:35742
energy transfer to standard man, calculation of thermal to 18 MeV neutron, 23:29515
evaluation of paraffin and wax, for tissue equivalence, 24:23209
functional studies in tissue-equivalent, using double tracer method, 25:26569
gamma absorption in water, 22:512
gamma Compton scattering from cuboid, approximation for, 24:11851
gamma dose for internally-deposited sources in cylindrical and spherical, methods for calculation of contribution of scattering to, 25:21714
gamma dose measurements at surface and inside of human trunk, 21:3412
gamma dose rates in slab, calculation using discrete-ordinates code ANISN, 23:36771
gamma dosimetry in, containing measured dose of technetium-99-labeled pertechnetate, 22:25919
gamma dosimetry of internally-located sources in human, using Monte Carlo methods, 21:6493 (ORNL-P-2709)
gamma sources in, use of thallium-activated sodium iodide scintillation detectors for whole-body counting of, 22:25645
gamma sources in, use of thallium-activated sodium iodide scintillation detectors for whole-body counting of, 22:25646
gamma spectra from cesium-137 sources distributed in human chest, 21:8794(R) (NYO-3136-3)
iodine-131 distribution in lung, quantitative evaluation of, in relation to monitoring, 23:31764
materials for tissue-equivalent, 22:25848
materials for tissue-equivalent, 23:47771
meson (π^+) and meson (π^-) absorption in tissue-equivalent, (E), 22:43324
meson (π^-) depth—dose distribution in water, calculated and measured, 22:33828
neutron absorption and scattering cross sections in tissue-equivalent, computer calculation of, 25:32493
neutron activation of beryllium and sodium in tissue equivalent, fast and thermal, 22:25961(R) (BNWL-531-2)
neutron activation of sodium in human, use of, for dosimetry, 24:21155 (CEA-R-3884)
neutron beam absorption in cylindrical, Monte Carlo studies of absorbed dose, dose equivalent, and LET distribution in, 25:46852
neutron capture probability measurements of, for estimating fast neutron dose following criticality accident, 23:20253
neutron current-to-dose conversion factors for, at 0.5 to 13.5 MeV, 23:7281(R) (ORNL-4280)
neutron depth dose distribution measurements in man-equivalent, 23:11752 (BNWL-481-2, pp 155-200)
neutron depth dose distributions in heterogeneous, (E/T), 25:32415 (ORNL-TM-3329)
neutron dose distribution in human, determination of, 21:3411
neutron dose distribution in tissue-equivalent, at 14 MeV, 24:32014
neutron dose distribution in, fast, 23:16180 (NIRS-7, pp 3-11)
neutron dose measurements at surface and inside of human trunk, 21:3412
neutron dose measurements at surface of, 21:43286
neutron dose rate and quality factor distribution in tissue-equivalent, at energies up to 700 MeV, 22:14823(T) (LA-tr-68-8)
neutron dosimetry and spectroscopy in, activation analysis method for fast, 23:50191
neutron dosimetry at bone-tissue interface in polythene, fast, 22:516
neutron dosimetry in heterogeneous, fast, 21:4804
neutron dosimetry in human, broad-beam monoenergetic, 21:6518
neutron dosimetry in right circular tissue-equivalent, calculation of plutonium-238, 24:9595(R) (BNWL-1256)
neutron dosimetry in slab, for calculation of equivalant doses and quality factors in relation to protection, 25:16191
neutron dosimetry in tissue equivalent, use of absorbed dose and depth dose in fast and thermal, 25:24179
neutron dosimetry in-tissue-equivalent human, 21:8839
neutron dosimetry in tissue-equivalent, californium-252 fission, 22:30866 (BNL-12452)
neutron dosimetry in tissue-equivalent, fast, 22:43109 (TID-24609)
neutron dosimetry using water-filled lucite cylinders, fast, 21:4809
neutron flux density distributions in and around man-sized, thermal, 23:2876
neutron flux estimation in water, boron trifluoride proportional detector measurements for thermal, 23:50157
neutron irradiation of tissue-like, estimation of quality factor for, 25:1736(R) (INR-1197)
neutron reactions at 15.09 MeV, calculation of spectra of recoil heavy particles from, 23:9939 (ORNL-4316, pp 231-69)
neutron reactions at 2.95 MeV, gamma and fast neutron dose distribution measurements from, 23:4958
neutron reactions at 3 and 15 MeV, spectra of recoil particles produced by, 22:6652 (ORNL-4168, pp 183-230)
neutron reactions in, at 3.0- to 15.0-MeV, proton-recoil spectra from, (E), 21:43319 (ORNL-TM-1927)
neutron reactions with nuclei in cylindrical tissue-equivalent, dose equivalent distribution for recoil nuclei following, 25:32421
neutron reflection factor for, 23:20249
performance for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance for radiation dose measurements in accelerator environs, 22:21529
performance of graphite, for testing calorimetric radiation dosimeters, 24:5935
performance of new ICRP lung, to evaluate plutonium excretion in urine, 23:24640
photon dosimetry in human, effects of distance and exposure angle on, 22:45566
photon dosimetry in tissue-equivalent, tabulations of calculated absorbed fractions for, 22:36275
plutonium-238 dosimetry using lung, 21:45625 (RFP-954)
preparation of infant and adult man, for use in calculations of radiation dose from deposited cesium-137, 21:8797 (ORNL-4007, pp 211-41)
preparation of liquid, containing water, glycerol, and urea, 23:47848 (NYO-2740-6, pp 207-8)
proton activation of beryllium and sodium in tissue equivalent, 22:25961(R) (BNWL-531-2)
proton depth-dose measurements in, after homogeneous irradiation, 22:45515
proton dose in tissue-equivalent water, 260- and 660-MeV, 22:1287 (JINR-P9-3369)
proton dosimetry in tissue-equivalent, using activation detectors, 22:21356 (CEA-R-3376)
proton energy deposition in spherical water, transport calculations of 160-MeV, 24:24106
proton energy loss distributions in thin tissue-like, analysis of statistical parameters of, 23:13974 (BNWL-715(Pt.2), pp 181-225)
proton energy straggling in gaseous, 23:11752 (BNWL-481-2, pp 155-200)
proton quality factor in water, 260- and 660-MeV, 22:31115
proton reactions with muscle-equivalent plastic, measurement of endothermic processes in, 23:13974 (BNWL-715(Pt.2), pp 181-225)
proton reactions with paraffin, use of activation detectors for measuring absorbed doses and fluences from, 22:14865
radiation absorption in muscle-equivalent, x, 21:14501(T) (UCRL-Trans-10081)
radiation attenuation by, 17 keV, 25:530
radiation attenuation in tissue-equivalent, x, 22:25848
radiation attenuation in, of various materials, equation for calculation of, 23:33712
radiation distribution in, performance of smaller Gravicert cobalt-60 source for effective γ, 22:38353
radiation distributions in air and water, determination of standard ion dose for x and gamma, 21:22488
radiation dose and dose rate in tissue equivalent spherical, development of computer programs for calculation of parameters for monoenergetic neutron, 23:48048 (NYO-2740-6, pp 99-106)
radiation dose and LET distributions in tissue-equivalent, following broad and collimated beam exposure from californium-252 source, Monte-Carlo method for calculating neutron, recoil ion, and secondary γ, 25:32420
radiation dose buildup effect in water, at 4.15 and 6.15 GeV, bremsstrahlung, 23:41324
radiation dose distribution in bone and soft tissue, use of Monte Carlo method for determination of neutron, 22:8524 (CONF-670305-, pp 306-17)
radiation dose distribution in chest and pelvis, for studies on rotational radiation for therapy, 25:16149
radiation dose distribution in cylindrical homogeneous tissue-equivalent, during rotation, γ, 24:50916
radiation dose distribution in cylindrical, external γ, 23:45733 (ANL-7535, pp 147-9)
radiation dose distribution in dog, mixed γ and neutron, 23:14165
radiation dose distribution in ellipsoidal tissue-equivalent, calculation of neutron, 24:44478 (EUR-4452, pp 183-92)
radiation dose distribution in head and neck areas of, of man, three-dimensional cobalt-60 γ, 24:4625
radiation dose distribution in human lung, 24:21166
radiation dose distribution in human lung, 24:21159
radiation dose distribution in human, computer programs for calculating photon, 25:32414 (KFKI-71-12)
radiation dose distribution in human, during rotational whole-body exposure, γ or x, 24:21174
radiation dose distribution in human, for bone cancer therapy, comparison of cesium-137 γ, cobalt-60 γ, and x, 25:13536
radiation dose distribution in human, γ, proton, and neutron, 24:41881
radiation dose distribution in human, low dose-rate whole-body cobalt-60 γ, 23:35727 (ORAU-107, pp 39-42)
radiation dose distribution in human, multiple field γ, 24:21163
radiation dose distribution in rat, comparison of, with frozen rats, x, 22:40723
radiation dose distribution in tissue equivalent, measurement of 200 MeV proton, 25:6699 (JINR-E16-5384)
radiation dose distribution in tissue-equivalent, scintillation spectrometer for measurement of beta, 23:38254
radiation dose distribution in tissue-equivalent, for use in therapy, method for determining, 25:526
radiation dose distribution in tissue-equivalent, calculation of high energy electron, 25:55214
radiation dose distribution in water, 10-GeV electron, 24:44475 (CONF-691101-, pp 185-208)
radiation dose distribution in water, 5, 10, and 15 MeV electron and positron, 24:23206
radiation dose distribution in water, calculations for 1250 keV photons, 25:16145
radiation dose distribution in water, computer method for calculating scattered γ, 25:35145
radiation dose distribution in water, errors due to ionization chamber air volume in measurements on γ and x, 25:35146
radiation dose distribution in water, high-energy neutron, 23:22297
radiation dose distribution in water, isodose curves for 5 to 15 MeV positron, 25:55210
radiation dose distribution in, calculation of, from photon fluence, 23:45753
radiation dose distribution in, edge effects on photon, 24:36756
radiation dose distribution in, extrapolation ionization detector for measurement of, 25:18644 (ORNL-4584, pp 152-64)
radiation dose distribution in, measurement of γ, neutron, and x, 22:36279
radiation dose distribution in, relation between rib fracture and γ, 23:31768
radiation dose distribution in, semi-automatic equipment using densitometer and x-ray film for determining, 24:44357
radiation dose distribution in, sensitivity of photographic film for measuring, 25:39764
radiation dose distribution measurements in liquid, detector positioning device for, 25:35059
radiation dose distribution of fission products in tissue-equivalent, calculation of β, 23:41319
radiation dose distributions in rabbit and rat, following exposure to monoenergetic neutron beams, correlation of LET distributions with γ, neutron, and recoil ion, 25:55229
radiation dose distributions in small tissue-equivalent spherical, measurement of cobalt-60 gamma-induced electron, 23:48049 (NYO-2740-6, pp 131-5)
radiation dose field measurements in water, effects of x-ray contrast media on bremsstrahlung and γ, 22:45630
radiation dose in relation to depth in, 0.5 to 60 MeV neutron, 21:39402 (ORNL-4032)
radiation dose in tissue-equivalent, from charged particles scattered from epithermal and fast neutrons, Monte Carlo calculation of, 21:6535
radiation dose measurement in polystyrene, use of photographic film for betatron electron, 21:28449
radiation dose measurements in Lucite, use of ferrous sulfate dosimeters for determining correction factors of ion chamber, 21:14477
radiation dose measurements in water, methods for Bremsstrahlung, electron, γ, and x, 25:42396
radiation dose measurements in water-filled chest, fast and slow neutron, 25:44817
radiation dose measurements in, compensating factors for ionization chamber sensitivity in γ and x, 25:44813
radiation dose measurements in, during therapy, scattered γ and x, 25:44877
radiation dose measurements in, neutron flux conversion factors for, 24:6037
radiation dose measurements of tangential stationary fields in water, use of digital computer for, 25:49189
radiation dose rate distribution in standard man slab, use of ANISN computer code to calculate monoenergetic γ, 23:33706 (ORNL-TM-2574)
radiation dose to Alderson, method for eliminating inhomogeneities in fast electron, 23:38595
radiation dose to bone and muscle, use of tissue-equivalent organic scintillators in measurement of x, 25:55213
radiation dose to cylindrical or ellipsoid tissue-equivalent human, for point sources or uniformly-distributed radioisotopes, measurement of γ, 22:23538
radiation dose to human organ, from uniform internal source, effects of organ density and structure on γ, 23:9940 (ORNL-4316, pp 271-94)
radiation dose to human thorax, factors affecting homogeneity of cobalt-60 γ, 23:33716
radiation dose to human, during simulated spinal radiography, x, 25:46837
radiation dose to ovarian or testicular area in Alderson, studies on, for determining gonadal dose in radiotherapy, 24:44491
radiation dose to perspex, use of dose concept to calculate ionizing, 23:43771
radiation dose to thoracic, as a function of radioisotope activation, measurement of, as standard for cosmic radiation dosimetry in astronauts, proton, 23:35745
radiation dose to tissue equivalent, Monte Carlo calculations of absorbed and equivalent 592-MeV proton, 25:55216
radiation dose to tissue equivalent, Monte Carlo calculations of absorbed and equivalent 580-MeV neutron, 25:55216
radiation dose to tissue, 400 MeV to 2 GeV neutron and proton, 23:45742
radiation dose to water, ratio of, to lung tissue dose, photon, 22:21542
radiation dose to, description of computer program for estimating gamma, 22:38260 (ORNL-TM-2250)
radiation dose to, from betatron, scattered, 23:2835
radiation dose to, methods for measurement and calculation of integral γ and x, 22:25836
radiation dose—depth distribution measurements in, use of extruded lithium fluoride thermoluminescent dosimeters for, 23:7869 (CONF-680920-, pp 976-89)
radiation dose-rate distribution in standard man slab, use of ANISN and OGRE codes to calculate flux-to-dose-rate conversion factors from low-level monoenergetic γ, 24:41891

radiation dosimetry by sodium activation in sodium carbonate-filled, 21:43288
radiation dosimetry determination in brain, use in radiotherapy of polycythemia patients, 21:3386
radiation dosimetry for uniform cylindrical, comparison of unilateral and bilateral external γ, 25:8686
radiation dosimetry in Alderson and water, for application in pendular therapy of bladder carcinomas, electron, 24:44569
radiation dosimetry in Alderson, for moving beam therapy of abdominal or thoracic tumors, 24:12075
radiation dosimetry in Alderson, for therapy of esophageal carcinomas, x, 24:36759
radiation dosimetry in cylindrical tissue-equivalent, effect of slant exposure on fast-neutron, 22:6652 (ORNL-4168, pp 183-230)
radiation dosimetry in cylindrical, containing bone and soft tissues, fast neutron and proton, 23:839
radiation dosimetry in cylindrical, fast- and thermal-neutron and neutron-produced γ, 24:39504 (ORNL-4446, pp 225-41)
radiation dosimetry in graphite, calculations for 1250 keV photons, 25:16145
radiation dosimetry in human chest, for rotational therapy, cobalt-60 γ, 24:48557
radiation dosimetry in human organ, containing radioisotopes, role of body background in extenal γ, 25:42423
radiation dosimetry in human trunk, effects of depth on LET spectra for fast neutron, 24:44486 (EUR-4452, pp 813-28)
radiation dosimetry in human, calculation of, for depth in central axis, γ, 22:43319
radiation dosimetry in human, comparison of methods for cobalt-60 γ, 23:38579
radiation dosimetry in human, comparison of performance of ionization chambers, photoluminescent dosimeters, and thermoluminescent dosimeters for γ, 22:38325
radiation dosimetry in human, effectiveness of tissue-equivalent ionization chamber for fast neutrons, 25:6691 (CONF-691106-, pp 12-27)
radiation dosimetry in human, effects of geometric configuration on proton, 23:14197
radiation dosimetry in human, following implantation of promethium-146 and promethium-147 heat sources, development of PNL and QAD computer codes for β and γ, 23:35744
radiation dosimetry in human, γ, 22:6803 (ORNL-4168, pp 231-88)
radiation dosimetry in human, idodose curves for whole-body γ and x, 25:58004
radiation dosimetry in human, in relation to photon energy measurements for bone marrow, x, 22:51626
radiation dosimetry in human, method for calculating effects of pendular angles on therapeutic electron, 24:34333
radiation dosimetry in human, method for measuring effects of field surface and pendular angle on cobalt-60 γ, 23:33794
radiation dosimetry in human, spatial distribution for fast and intermediate neutrons, 21:43388
radiation dosimetry in human, whole-body, 22:8513 (CONF-670219)
radiation dosimetry in lucite, performance of thermoluminescent dosimeters for fast neutron, 25:55319 (UCD-472-118)
radiation dosimetry in mammalian, in relation to angular distribution and energy of scattered photon fluence, application of diffusion equations for internal γ, 23:38568 (AD-686511)
radiation dosimetry in plastic-scintillator, 21:43380
radiation dosimetry in Plexiglas, using scintillation detectors, 25:35030
radiation dosimetry in plexiglass-water, for studies on postoperative therapy for mammary carcinomas, electron, 24:34539
radiation dosimetry in RANDO average man, for evaluation of patient equivalence for cobalt-60 γ, 23:38594
radiation dosimetry in standard man slab, calculation of fluence-to-dose conversion factors for 15 MeV to thermal neutron, 25:39860
radiation dosimetry in tissue equivalent small animal, in relation to LET, Monte Carlo sampling method for, 25:8685
radiation dosimetry in tissue equivalent, for determination of depth dose distributions during radiotherapy, fast neutron, 23:933(R) (NIRS-6)
radiation dosimetry in tissue equivalent, for therapy, 10 to 35-MeV electron, 25:24292
radiation dosimetry in tissue, in relation to space radiations, 23:14166
radiation dosimetry in tissue-equivalent plastic, measurement x, 22:45544
radiation dosimetry in tissue-equivalent plastic, thermal defect in proton, 23:35735
radiation dosimetry in tissue-equivalent polystyrene, proton, 22:15005
radiation dosimetry in tissue-equivalent, californium-252 fast neutron, 23:9955
radiation dosimetry in tissue-equivalent, compared to that in tumor-bearing mice, fast neutron, 21:8926
radiation dosimetry in tissue-equivalent, computer calculations of nuclear interactions for γ and neutron, 25:6694 (CONF-691106-, pp 95-115)
radiation dosimetry in tissue-equivalent, effects of energy spectra and dosimeter location on fast neutron, 25:55232
radiation dosimetry in tissue-equivalent, effects of lead lattice shielding on γ, 21:39416
radiation dosimetry in tissue-equivalent, effects of penetration depth on neutron, 22:6652 (ORNL-4168, pp 183-230)
radiation dosimetry in tissue-equivalent, fluence-dose conversion factors for fission neutron, 22:43309(T) (ORNL-tr-1963)
radiation dosimetry in tissue-equivalent, following criticality accident, γ and fast neutron, 25:11057
radiation dosimetry in tissue-equivalent, for calculation of depth-dose curves, high-energy neutron and proton, 23:24668
radiation dosimetry in tissue-equivalent, for calculation of dose field in therapy, 22:45533
radiation dosimetry in tissue-equivalent, for planning of tumor therapy, 25:531
radiation dosimetry in tissue-equivalent, in relation to integral absorbed dose to tissues, γ and x, 24:6043
radiation dosimetry in tissue-equivalent, miniature transistorized lithium-drifted detector for, 23:35746
radiation dosimetry in tissue-equivalent, miniature proportional detector for fast neutron, 25:21450
radiation dosimetry in tissue-equivalent, neutron, 21:20189
radiation dosimetry in tissue-equivalent, neutron, 22:10759 (JINR-P16-3587)
radiation dosimetry in tissue-equivalent, of rabbit eye, neutron, 25:4521
radiation dosimetry in tissue-equivalent, recoil proton, 21:20188
radiation dosimetry in tissue-equivalent, Rossi proportional detector for, 24:27431 (CONF-690540-, pp 576-85)
radiation dosimetry in tissue-equivalent, use of ionization chamber for x, 23:933(R) (NIRS-6)
radiation dosimetry in tissue-equivalent, variations of OER and RBE in fast neutron, 24:44479 (EUR-4452, pp 198-218)
radiation dosimetry in tissue-like, method for high-energy, 24:41880 (N-69-13643)
radiation dosimetry in tissue-like, quality factor for thermal neutron, 23:29500 (INR-P-965)
radiation dosimetry in transparent human, 23:6474
radiation dosimetry in water, cobalt-60, 22:509
radiation dosimetry in water, γ and orthovoltage x, 22:31086
radiation dosimetry in water, γ and supervoltage x, 22:45596
radiation dosimetry in water, using moment method calculations for γ, 24:12069
radiation dosimetry in water-equivalent, 22:36285
radiation dosimetry in water-equivalent, effects of collimator and scatter foils on electron, 24:713
radiation dosimetry in water-filled, use of miniature ion chambers for neutron, 21:38815(R) (BNWL-293)
radiation dosimetry in, absorbed, 24:19317
radiation dosimetry in, bremsstrahlung, γ and x, 22:4613
radiation dosimetry in, dielectric liquid-filled ionization detector measurements of quality factor for 3-GeV proton, 24:44327 (CONF-691101-, pp 809-16)
radiation dosimetry in, experimental and theoretical determination of, 23:16283 (EGG-1183-2165(Rev.))
radiation dosimetry in, fallout, 22:6831
radiation dosimetry in, for accuracy in diagnosis, statistical evaluation of γ, 25:42397
radiation dosimetry in, for angiography, 24:9829
radiation dosimetry in, for biological experiments using Stebel apparatus, 22:51620
radiation dosimetry in, for determining dose distribution to gonads during diagnosis, 23:50488
radiation dosimetry in, for mantle therapy of lymph nodes, γ, 22:51637
radiation dosimetry in, for promethium-147 powered mechanical heart, 24:14507
radiation dosimetry in, for studies of large animal exposure, proton, 25:520 (AD-708428)
radiation dosimetry in, for use in calibration of ferrous sulfate dosimeter, β, γ, and x, 22:10774
radiation dosimetry in, for use in teletherapy, γ, 22:51636
radiation dosimetry in, for use in therapy of malignant tumors, electron and neutron, 22:45534
radiation dosimetry in, high-energy proton, 22:8525 (CONF-670305-, pp 318-28)
radiation dosimetry in, methods for cesium-137, cobalt-60 and x rays, 23:50485
radiation dosimetry in, Monte Carlo calculations for 0.4 to 2.0 GeV, neutron and proton, 23:6484
radiation dosimetry in, paraffin and polyethylene, for 60 keV to 1.25 MeV, 24:23207
radiation dosimetry in, performance of ionization chambers and thermoluminescent detectors for γ and x, 22:28529
radiation dosimetry in, scattered γ and x, 21:45635
radiation dosimetry in, use of ionization chamber for electron, 23:933(R) (NIRS-6)
radiation dosimetry in, using ferrous sulfate dosimeters, 21:45726
radiation dosimetry in, variation of RBE with depth for high energy bremsstrahlung, 24:12325
radiation dosimetry of plutonium-238 heat source in, in relation to circulatory support system, γ and fission neutron, 25:6688 (BNWL-1489)
radiation dosimetry of promethium-147 oxide-fueled implantable heat sources in, 23:41313 (BNWL-1018)
radiation dosimetry of, using combined (fluorescent and transistor) detectors, γ and x, 22:38296
radiation dosimetry on Prestwood, cobalt-60 teletherapy and 14 MeV linear accelerator leakage and scatter, 24:4624
radiation dosimetry using tissue-equivalent, comparison of γ, neutron, and x, 22:51597
radiation effects on HeLa cells at different depths in polystyrene, RBE for 20 MeV electron, 23:50495
radiation effects on temperature of tissues of, effects of metal implants on IFR, 22:43343
radiation effects on tissue-equivalent, RBE for californium-252 and radium-226, 24:34566 (BNL-14610)
radiation scattering measurements on liver and thyroid, γ, 25:26849
radiation spectral distribution in homogeneous, calculation of secondary, 23:29201
radioinduced endothermic reactions in plastic, calorimeter for measurement of proton, 23:11752 (BNWL-481-2, pp 155-200)
radioinduced thermal neutrons in water, following high energy exposure, electron beam and x, 23:43828
radioisotope distribution in, optical transfer function of scintillation cameras used for determining, 22:43045
radioisotope location in tissue-equivalent, crosscorrelation method for, 23:45508 (BNWL-1051(Pt.3), pp 18-21)
radioisotope scanning in lucite, measurement of γ-spectra from, 23:12068 (ORO-2401-11)
scanning in aluminum, evaluation of radioisotope sources for transmission, 24:32085
sodium-24 production in saline-filled, use of, for neutron dosimetry, 21:1752
use for calculating kerma dependence on neutron energy, 22:6652 (ORNL-4168, pp 183-230)
use for calibrating instruments for measuring iodine-131 metabolism, 23:38409
use for calibration of K estimation using potassium-40 and whole-body counters, 21:26374
use for calibration of whole-body counter, anthropomorphus, 22:36278
use for calibration of whole-body counters, 25:51975
use for cesium-137 dosimetry for therapy of cancer of larynx, 21:45721
use for cobalt-60 dosimetry for eccentric rotation, computer analysis of, 23:26808
use for comparison of performance of radioisotope scanning machines, 22:38401
use for constructing isodose curves for eccentric rotation therapy using cobalt-60, use of computers for, 23:26808
use for determination of x-ray depth dose curves, 22:40713
use for determining depth and surface RBE of electron beams, 21:26648
use for determining dose distributions in cobalt-60 planar rotation, 22:47545
use for determining size of thyroid, evaluation of errors in, 22:36295
use for development of tissue equivalent systems for standard man and muscle, 24:41720 (ANL-7635, pp 115-53)
use for dose distribution studies during electron pencil beam scanning, 23:6530
use for dosimetry in radiotherapy, 23:35827
use for dosimetry of neutrons from monoenergetic beams, 22:28456 (ORNL-P-3048)
use for dosimetry of x-radiation in dogs, 21:36597
use for evaluation of low-energy γ-emitting radioisotopes for use in scintiscanning, 22:38337
use for evaluation of radiotherapy methods for naso-pharyngeal neoplasms, 22:31146
use for evaluation of scintiscanners, 22:540
use for γ- and proton-dosimetry in solar flares, 21:32634 (ANS-SD-4, pp 67-78)
use for measurement of absorbed doses of γ- and x rays for therapy, 23:2841
use for measurement of effects of air cavities on γ dose distribution during therapy, 24:17053
use for measurement of radiation depth dose from fallout fields, 21:32632 (ANS-SD-4, pp 49-56)
use for measurement of radiation dose to human gonads during dental radiography, x, 23:50527
use for measuring LD/sub 50/30/ of x radiation for rats, 21:34671
use for measuring proton-radioinduced ionization in tissue-like gases, 21:45802
use for measuring scattered x radiation during dental diagnosis, 22:38299
use for neutron activation analysis of total body calcium, chlorine, nitrogen, phosphorus, and sodium in man, 22:31007
use for neutron dosimetry, 21:32630 (ANS-SD-4, pp 25-45)
use for neutron dosimetry, 21:32631 (ANS-SD-4, pp 47-8)
use for phosphorus-32 bremsstrahlung dosimetry, tissue equivalent, 23:6469
use for radiation dosimetry in human patients and radiology personnel during radiography using double x-ray beams, 23:50541
use for study of γ dose distribution in radiotherapy, 21:26451
use for testing effects of respiration on results of liver scans, 23:6498
use for testing effects of respiration on results of liver scans, 23:6497
use for testing in profile scintiscanning with gamma emitting isotopes, 21:22489
use for testing ionization chambers, water, 21:45653
use for testing performance of thermoluminescent dosimeters, 21:22176
use for x-ray dosimetry of children for use in therapy of ringworm, 22:31085
use in determination of depth doses due to fission neutron spectrum, 21:41428
use in determination of γ dose from cobalt-60 beam, 21:30822
use in determination of minimum detectable quantities of internally-deposited radioisotopes, 21:36402
use in evaluation of protective shelters, 22:4386
use in simultaneous dosimetry technique during radiography, 21:45642
use in study on backscatter during x-ray exposure, 24:41900
use of Alderson-Rando, to determine efficiency of radiography to detect pit dust deposits in human lungs, 24:6076
use of anthropomorphous, for calibration of whole-body counters using radium-226, 25:563
use of bone-paraffin, for local proton irradiation studies, 21:16347(T) (JPRS-38272, pp 306-7)
use of calibrated, for evaluating AAEC scintillation whole-body counter, 22:37969 (AAEC/TM-450)

use of carbon tetrachloride—hexane, in ionization detector for dosimetry of photons, 22:14863
use of erythrocyte radiomimetic, for studying protective action and selection of radioprotective compounds, 25:21744
use of heart, to test effects of absorption of cesium-131 γ rays on scan results, 21:24511
use of heterogenous materials with air cavities as, for bremsstrahlung dosimetry, 22:51618
use of laryngeal, for dose determination in radiotherapy of vocal cord carcinomas, 21:26543
use of lucite neck, for calibration of semiconductor detector for iodine-123 thyroid scanning, 24:12186
use of Lucite, for measurements of biological effectiveness and oxygen enhancement ratio at different depths for 910-MeV helium ion beams, 25:16142 (UCRL-20190)
use of lung, for calibration of collimator for use with scintillation detectors for xenon-133 scanning, 22:40773
use of multi-geometry anatomical human, for computer calculations of cosmic radiation dose distribution in body organs of astronauts, 25:39868
use of plastic scintillator, in method for integral dose measurements, 21:22418
use of plexiglass, for gamma dosimetry, 21:45617 (ORAU-101, pp 70-3)
use of polystyrene, to determine biological 20-MeV electron effects on HeLa cells, 22:28380
use of shielded tissue-equivalent, for calculations of solar flare and Van Allen proton dose absorbed and dose equivalent for astronauts, 25:24155 (ORNL-TM-3320)
use of spherical, in microdosimetry, 21:41275 (BNWL-SA-1003)
use of standard man, for dosimetry of x radiation during dental radiography, 22:25839
use of standard man, for dosimetry of x radiation during dental radiography, 22:25838
use of standard man, for dosimetry of x radiation during dental radiography, 22:25840
use of thermoplastic materials for tissue-equivalent, 21:41429(P)
use of thyroid, for comparison of scanner and scintillation camera, 24:765
use of tissue equivalent, for calculations of depth dose in tissues for therapy, gamma and x, 25:21707
use of tissue equivalent, for dose distribution studies on high energy electrons, 24:50912
use of tissue equivalent, for γ dosimetry, 21:45684
use of tissue equivalent, to estimate radioactive contamination and dose absorbed at site of human organs, 25:11067
use of tissue-equivalent head, for dosimetry of 18 MeV electrons in oral cavity, 21:12880
use of tissue-equivalent human leg and neck, for dosimetry of collimated beams of thermal neutrons, 23:50536
use of tissue-equivalent plexiglass, for γ dosimetry, 21:45629
use of tissue-equivalent, for dosimetry of cobalt-60 gamma radiation, 21:14661
use of tissue-equivalent, for dosimetry of thermal neutrons at depth, 21:24415 (PG-Report-774)
use of tissue-equivalent, for dosimetry of ultrahard x radiation, 21:14661
use of tissue-equivalent, for measurement of radiation dose distribution functions for gamma rays and neutrons, 21:20180 (ORNL-P-2897)
use of tissue-equivalent, for measurement of radiation dose absorbed by tissues following interstitial administration of radioisotopes, 25:39866
use of tissue-equivalent, for measurements of positron decay processes following activation by high-energy α beams, 23:29508 (UCRL-18347, pp 155-70)
use of tissue-equivalent, for neutron dosimetry, 21:8796 (ORNL-4007, pp 171-210)
use of tissue-equivalent, for testing performance of large-crystal γ camera for metastable indium-113 or technetium-99 scanning, 25:21754
use of tissue-equivalent, to determine depth dose of γ and x rays in homogeneous media, 21:20192
use of water, for dosimetry of 40 MV x rays, 21:32660
use of water, for dosimetry of negative pion beams, 23:8002 (UCRL-18066, pp 108-22)
use of water, for dosimetry of therapeutic γ rays using dual carbon-platinum ionization chambers, 22:51613
use of water, for measurements of γ-dose distribution during pendulum therapy, 22:49349
use of water, to determine x radiation dose to gonads of man during therapy for hemangiomata, 22:38285
use of, for comparison of conventional scanning techniques and scintillation camera, 21:8862
use of, for determining depth dose from fallout simulators and fields, 21:6516
use of, to determine effects of extended radiation sources on isosensitivity lines of multichannel collimators, 21:10986
use to calculate neutron fluence-to-kerma factors for human body, 22:31071
use to calculate parameters of radiation absorption and scattering in muscle tissue, 22:43329
use to determine absorbed x-ray dose in tissues of man during radiography, 23:4954
use to determine effects of anatomical irregularities on electron dose distribution, 22:51578
use to determine γ-dose distribution in soft tissues during bone exposure, 23:45750
use to determine therapeutic efficiency of modified γ irradiation facilities, 22:31156
use with aluminum phosphate dosimeters for evaluation of gamma dose to man accidentally exposed at irradiation facilities, 25:55235
uses for dosimetry of γ and x in rats, 21:36606
uses for measurement of dose distribution during telecobalt therapy, 21:28553
uses for studies of distribution of dose fields during teletherapy of maxillary tumors, 21:32689
uses in radiation dosimetry, 21:34650(R) (BNWL-322)
x-ray Compton scattering from cuboid, approximation for, 24:11851
x-ray scattering by Presdwood, secondary radiation from, 22:28497

PHARMACEUTICALS
analysis for (2-bromo-3-methylbutyryl)urea and zinc oxide by back scattering of americium-241 γ radiation, 23:57
analysis for impurities by neutron activation and radiochemical separation, 25:6286
analysis for inorganic iodine-131 impurities by thin-layer chromatography and counting, 24:43939 (CNEA-264)
analysis for iodine by activation methods, 23:37976(R) (AE-360)
analysis for iodine by photonuclear activation using betatron, 23:13682
analysis for iodine using Ross filters for energy selection, x-ray fluorescence, 25:10479
analysis for technetium-99m by thin-layer chromatography and scintillation counting, 24:43963 (CNEA-265)
analysis for zinc by neutron activation and γ spectroscopy, 25:29029
analysis of boron-containing, by neutron absorption, 25:10487
analysis of fluorine-containing, for fluorine by photon activation, 24:38792
analysis of inactive and radio-, by radiometric titration, 25:6279
analysis of radio-, control by, 25:6268
analysis of radio-, for carriers and specific activity by radiometric titration, 25:6279
analysis of radio-, for impurites, methods used at Bhabha Atomic Research Centre, Trombay for, 25:6267
analysis of radio-, for impurities, 25:6269
analysis of radio-, for impurities by chromatography, equipment for, 25:51396
analysis of radio-, for impurities, accuracy of paper and thin-layer chromatography for, 25:6277
analysis of radio-, for impurities, quality control in, 25:6276
analysis of radio-, for impurities, review on methods used in Norway for, 25:6270
analysis of radio-, for radioactive impurities, use of thin-layer chromatography in, 25:26179 (CNEA-285)
analysis of radio-, review on, 25:57350
analysis of radioisotope-labeled, methods for radiometric, 23:47
analysis of, review on methods for, 25:31783
conference on analytical control of radio-, Vienna, July 7-11, 1969, 25:6259 (STI/PUB-253)
decomposition or radio-, effects of storage on, 25:6268
development of radioactive, methods for, 22:25859 (UCLA-12-668, pp 1-28)
disbursement and inventory of radioisotope-labeled, development of computer data system for, 25:19050
effectiveness of indium-113m-labeled, for clinical scanning procedures, 25:49234
evaluation of short-lived radioactive, for kidney scanning, 22:25859 (UCLA-12-668, pp 1-28)
handling and shipping of radioactive, safety and timeliness in, 25:48851 (CONF-710801-(Vol.2), pp 720-6)
handling of radioisotope-labeled, hazards from, 21:24450
handling of radioisotope-labeled, in clinic and research, safety principals for, 25:35153
identification of beta-emitting, using quench analysis, 25:52135
labeling with fluorine-18, iodine-131, and technetium-99m, 25:21687 (CONF-700834-(Absts.))
ointments, effectiveness of petroleum growth substance, for treatment of radiation injuries, 25:42539
particle size distribution of albumin suspensions and radioactive gold colloids, methods for measuring, 25:6385
preparation and distribution of radioisotope-labeled, in Australia, 25:52121 (A/CONF.49/P-125)
preparation of cyclotron-produced radio-, for human brain scanning, 25:32473
preparation of labeled, at Israel AEC, 22:48806(R) (IA-1168)
preparation of new radioisotope-labeled, for use in nuclear medicine, 25:4415
preparation of radio-, for use in clinical and diagnostic studies in nuclear medicine, 25:37833 (A/CONF.49/P-92)
preparation of radio-, in Italy, review of, 25:29273
preparation of radioisotope-labeled, design of cyclotron facility for, 23:12149 (NYO-910-75, pp 46-84)
preparation of radioisotope-labeled, for nuclear medicine, 25:26829
preparation of, use of development of technetium-99 metastable-labeled human serum albumin macroaggregates to illustrate, 24:32082
production and control of radio-, methods for, 25:6286
production and control of radio-, role of hospital radiopharmacist in, 25:6384
production of radio-, COMECON activities in, 25:6343
production of radio-, in Spain by JEN, 25:6268
production of radio-, quality control methods at Bhabha Atomic Research Centre, Trombay for, 25:6267
production of radioactive, 23:20300
production of radioisotope labeled, whole-body counting of workers engaged in, 25:24007
production of radioisotope-labeled, conference on, 25:55255
production of radioisotope-labeled, design of device for, 24:25168(P)
production of short-lived radio-, for scanning, review on, 25:19054
properties and uses of generator-produced radio-, for human brain scanning, 25:32471
properties of radioisotope-labeled, in relation to uses in nuclear medicine, 25:44824
purity criteria and specifications for radio-, 25:6412
radiation dose to children following administration of labeled, 23:12111
radiation dose to man during lung scanning using radioactive, methods for calculating absorbed, 25:4511
radiation effects on chemical and physical properties of hydrocortisone ointments, γ, 22:52100
radiation effects on sensitivity of man to, 25:58142
radiation effects on survival of bacteria in ointments containing corticosterone, γ, 22:52101
radiation energy sorption by iodine-125- and -131-, mercury-197- and -203-, and phosphorus-32-labeled solutions of, 22:37819
radiation processing of solutions of, evaluation of γ, 22:52067
radiation processing of, design and performance of Ethicon facilities for, 22:4718
radioactivity assay in, ionization chamber for, 25:18723
radiochemical purity of, 25:6387
radioinduced oxidation of aqueous solutions of, evaluation of protective agents for elimination of γ, 25:18472
radioisotope-labeled, for use in scintigraphy, development of, 23:48113
radioisotope-labeled, review of recent progress development of, 23:50658
radiosterilization of hydrocortisone-containing, γ, 22:52101
radiosterilization of preparations of hormone, γ, 22:52105
radiosterilization of thyreoidea, γ, 22:52077
radiosterilization of vitamin, γ, 22:52104
radiosterilization of, code of practice of IAEA for, 22:52069
radiosterilization of, code of practice recommended by IAEA for, 22:52068
radiosterilization of, design of facilities for γ, 22:52072
radiosterilization of, design of linear accelerator facility for, 22:52073
radiosterilization of, developments in U.S.S.R. of γ, 22:40987
radiosterilization of, economics of γ, 22:52071
radiosterilization of, facilities and economics for γ, 22:52074
radiosterilization of, legal aspects of, 24:32336
radiosterilization of, review of criteria for, 23:48307
radiosterilization of, symposium on, 22:52064 (STI/PUB-157)
separation of impurities from radioisotope-labeled organic, chromatographic, 25:6412
separation of inorganic radioiodides from iodine-131-labeled, by thin-layer chromatography, 25:6278
stability and shelf-life of radioiodine-labeled, paper chromatographic and electrophoretic studies on, 24:50437 (CONF-690916-(Vol.2), pp 112-17)
stability of radio-, 25:6387
testing of radio-, by CNEA, methods for biological, chemical, and physical, 25:6269
toxicity safety factors for radioisotope-labeled, 24:34066
use for removal of plutonium-239-labeled plutonium oxide particles from lungs of dogs and rats, 23:6434 (BNWL-714, pp 6.1-21)
use in medical radiology, research on, 24:46639
use of radioisotope-labeled, for tumor diagnosis in man, 24:34480
use of radioisotope-labeled, in nuclear medical service in Italy, 25:35156
use of radioisotope-labeled, in nuclear medicine, review of economics and techniques for, 25:13519

PHARMACOLOGY
activation analysis in, review of, 25:46445
activation analysis uses in, 25:23539
book: Isotopes in Experimental Pharmacology, 22:2489
book: Pharmacology of Reproduction, 23:18124
conference on radioisotopes in, Geneva, Sept. 20 to 23, 1967, 25:24247
isotope effect studies in, 25:23574
nuclear techniques in, conference at Saclay, France, March 11-13, 1970 on, 25:46666
radioisotope use in, 21:24471
radioisotope use in, 21:24472
radioisotope uses in, in West Germany, 25:52105
radioisotopes in, review of use of, 24:9873
radioisotopes use in clinical, practical and theoretical aspects of, 23:43683
research programs of Federal Health Office in Germany, 25:21675(R) (NP-18630)
research programs of Federal Health Office of Germany, 25:21676(R) (NP-18631)
use of radioisotopes in, training programs for protection against, 22:40722

Pharos Device
see Pinch Devices

PHARYNX
incidence of Pseudomonas aeruginosa in, of γ-irradiated rats, 21:11047
radiation dose from treated, use of lithium fluoride thermoluminescent dosimeters for measuring exit, 21:26236 (CONF-650637-, pp 372-9)
radiation effects on human, combined effects of nicotine in tobacco smokes on carcinogenic, 23:38858
radiation effects on human, evident 21 to 34 yr after neck therapy, x, 23:26914
radiation effects on normal tissues of human, in therapeutic doses, 23:6601
radiation injuries of, following intra-arterial yttrium-90 treatment of tumors in man, 21:32713
radiography for evaluation of deglutition diseases, evaluation of cinematic x, 24:34450
radiography in combination with biopsy for tumor diagnosis, 24:17078
radioinduced fistulas of, following therapy for cancers of head and neck, x, 21:14731
radioinduced injuries of human, following therapy of neck area, 24:32252
radiotherapy of cancer of human, interstitial and intracavitary gold-198, iodine-125, iridium-192, radon-222, and external x, 22:49430

  - radiotherapy of cancer of, using crossed beam technique, 21:43468
  - radiotherapy of carcinoma of human naso-, development of myelopathy following γ, 23:48173
  - radiotherapy of carcinoma of hypo-, hypothyroidism following, 21:20359
  - radiotherapy of carcinomas of human, development of dental caries following cobalt-60 γ, 24:12310
  - radiotherapy of carcinomas of human, evaluation of telecesium γ, 22:43379
  - radiotherapy of carcinomas of human, ionizing, 24:21161
  - radiotherapy of carcinomas of hypo-, in man, high-energy electron, 22:51733
  - radiotherapy of carcinomas of, effectiveness of preoperative gamma and x, 25:42588
  - radiotherapy of carcinomas of, effectiveness of presurgical, 21:39470
  - radiotherapy of carcinomas of, γ, 21:45711
  - radiotherapy of carcinomas of, in man, comparison of radiation dose using contact cobalt-60 beads, radium, or cesium-137 teletherapy, γ, 23:50787
  - radiotherapy of diseases of, using strontium-90, 21:10983
  - radiotherapy of hypertrophy of Eustachian tube of, in man, evaluation of, 24:36798
  - radiotherapy of malignant tumors of, in man, development and surgical repair of injuries to skin following, 22:47598
  - radiotherapy of neoplasms of human, comparison of effectiveness of surgery with γ, 25:18998
  - radiotherapy of neoplasms of human, comparison of cobalt-60 γ and x, 23:50793
  - radiotherapy of neoplasms of human, comparison of effectiveness of surgery with, 25:19083
  - radiotherapy of neoplasms of human, method for presurgical cobalt-60 γ, 24:19339
  - radiotherapy of neoplasms of human, rehabilitation of patients following, 24:21247
  - radiotherapy of neoplasms of, evaluation of methods for x, 22:31146
  - radiotherapy of neoplasms of, in man, cobalt-60 γ, 22:31171
  - radiotherapy of transitional cell carcinomas of, in man, development and treatment of dental decay following, 22:31174
  - radiotherapy of tumors in, dose distribution measurements for evaluating pendulous technique for electron, 22:51691
  - radiotherapy of tumors of human, development of myelopathy following, 24:36845
  - radiotherapy of tumors of meso-, in man, high-energy electron, 22:51736

- PHASE DIAGRAMS
  - book: Advances in Materials Research. Vol. 4, 24:48797
  - book: Computer Calculation of Phase Diagrams, 24:39658
  - book: Constitution of Binary Alloys, First Supplement, 21:6836
  - book: Diagrams of the Metallic System Phases. Review of Research (In Russian), 23:30055
  - book: Metallography of Refractory Metals and Alloys, 22:15204
  - book: Metallurgy and the Hot Working of Metals, 25:8894
  - book: Phase Diagrams for Ceramists: 1969 Supplement, 23:44022
  - book: Phase Diagrams of Silicate Systems, in Russian, 24:16493
  - book: Phase Diagrams: Materials Science and Technology. Volume II. The use of Phase Diagrams in Metal Refractory, Ceramic, and Cement Technology, 24:44736
  - book: Phase Diagrams: Materials Science and Technology. Volume I. Theory, Principles, and Techniques of Phase Diagrams, 24:42158
  - book: Phase Diagrams. Materials Science and Technology. Volume III. Use of Phase Diagrams in Electronic Materials and Glass Technology, 25:37975
  - book: Principles of Phase Diagrams in Materials Systems, 23:8220
  - calculation and drawing of, computer program for, 23:48559 (JUL-596-RG)
  - calculation for reciprocal salt pairs, 22:52556 (ANL-7425, pp 172-89)
  - calculation of, methods for, 23:38999
  - calculations from thermodynamic properties, computer techniques for, 23:38998
  - compilation of plutonium alloy, handbook on, 23:18238 (LA-3870)
  - compilation of ternary, incorporating boron with transition metals, 24:10180
  - construction of binary system, effect of temperature factor on, 23:30074
  - construction of, calculations for, 23:30073
  - data aquisition for, performance of solar furnace for, 24:8204
  - determination by Moessbauer effect, 21:34255 (UCRL-50262)
  - determination in fused salt, by microscopy, 22:31448
  - determination of, equipment and techniques for, 22:35981
  - determination of, use of Moessbauer effect in, 22:39189
  - development of binary alloy, reference data on, 22:10908
  - methods of determining metal, by carbonyl and evaporation processes, 22:15209(T) (MLM-1381(tr))
  - preparation for binary metallic systems, generalizations for, 23:30075
  - superconductivity and, 25:38319
  - thermodynamic property calculations from, for binary eutectic systems, 21:8234 (IS-T-123)
  - thermodynamic relation development from binary, 23:38997
  - thermodynamics of binary and ternary refractory systems, 22:36499
  - uses in analysis of crystal growth kinetics, 25:37976
  - uses in predicting structure of glass-forming oxide melts, 25:38027

- PHASE STUDIES
  - (Including allotropic formations, eutectoid reactions, nucleation, precipitation, phase transformations, recovery, segregation, etc.)
    - see also Azeotropes
    - see also Diffusion
    - see also Eutectics
    - see also Grain Growth
    - see also Phase Diagrams
    - see also Solutions
  - acoustic emission by martensitic transformations, 23:3072 (UCRL-50525)
  - bibliography of metallic, 21:18204 (NP-16427)
  - bibliography on high-temperature, 22:5418 (NP-17141)
  - book: Phase Transformations, 22:31411
  - book: Phase Transformations (In Russian), 25:37978
  - book: Principles of Phase Diagrams in Materials Systems, 23:8220
  - book: Statistical Physics, Phase Transitions, and Superfluidity, 23:5364
  - book: Statistical Physics, Phase Transitions, and Superfluidity, 25:27912
  - equations for three dimensional boundary layer in, finite difference, 25:2040(T) (SC-T-70-4038)
  - Ising model of transitions, lectures on, 25:27913
  - method for oxides above 2000°K, 22:31498
  - methods and equipment for, transmission electron microscopy, 24:7390 (UCRL-19021)
  - models for, interpretations in, (T), 21:16896
  - particle coarsening in, effects of solute concentration on, 21:22886 (CALT-221-29)
  - phase boundaries and homogeneity ranges of nonstoichiometric compounds, 22:36499
  - phase transitions, theory for, 22:6208 (LA-3805)
  - positron annihilation method for, 25:127 (CONF-700915-1)
  - research progress on, 21:40719(R) (AD-650265)
  - research progress on nucleation, 22:12161(R) (COO-582-14)
  - transitions and effective long-range order in finite, macroscopic one- and two-dimensional systems, (T), 23:13006

- Phaseolus
  - see under Angiospermidae

- Phasotron (Russian)
  - see Synchrocyclotrons

- PHENANTHRENE
  - deuterium exchange with hydrogen in perchloric acid—trifluoroacetic acid—water solution of, at 30°C, kinetics of, 22:27632
  - development for reactor coolants, moderators, or reflectors, 21:40712(P)
  - effects of coatings of, on γ radiolysis products of poly(vinyl chloride), ESR studies on, 25:34656
  - effects of, on radioinduced isomerization of stilbene, 21:3100
  - effects of, on radiolysis of tributyl phosphate, 21:8384
  - effects on γ radiolysis of poly(methyl methacrylate), kinetics of, 23:17489
  - effects on γ radiolysis of proteins, 23:35150
  - effects on γ-radioinduced graft polymerization of cellulose with styrene in methanol solutions, 25:2247
  - effects on γ-radioinduced isomerization of trans-stilbene in benzene solutions at 25°C, 24:2236
  - effects on radiation stability of sulfur-containing condensation and polymerization resins, 23:6152
  - effects on transformation of x-irradiated cultured cells from Syrian hamsters, 23:31884
  - effects on yields of ethylene glycol and hydrogen in radiolysis of methanol, 23:2350
  - electron attachment cross sections for, nondissociative, 22:35777 (ORNL-TM-2216)
  - electron reactions at 30 keV with vapor of, characteristic energy losses in, (E), 24:3173
  - extinction coefficients of triplet—triplet transition in, pulse radiolytic method for determining, 22:42779
  - extraction from petroleum distillate residues, 21:21717
  - phosphorescence lifetimes of, effects of energy acceptor on, 23:31255 (MIT-905-133, pp 37-77)
  - preparation of tritium-labeled, effects of variables on Wilzbach method for, 22:65
  - properties as organic reactor coolant, 21:21717
  - radiation damage in pure monocrystals of, electrical and optical study of gamma, 24:37548
  - radiation effects on electron spin resonance of single crystals of, γ, 21:38992
  - radiation effects on, absorption spectra from gamma, 21:23314 (BNL-994, pp 70-102)
  - radiation effects on, adsorbed on silica gel, ESR studies of γ, 24:7455
  - radiolysis in solutions with polyphenyls, electron transfer in pulse, 21:19667
  - radiolysis of, reactions of aromatic anions with aliphatic alcohols in pulse, 21:23924
  - spectra in biphenyl single crystals, ENDOR, 23:8665(R) (COO-294-8)
  - spectra of photoexcited, ENDOR, 24:7423(R) (COO-294-9)
  - spectra of, effects of deuterium on zero-field splittings of electron magnetic resonance, 23:24186
  - structure of, neutron diffraction study of, (E), 22:50223(R) (PRNC-115)
  - thermal capacities of, 22:10204(R) (COO-1149-102)
  - thermal capacity anomaly in, effects of deuteration, purification, and dissolution on, 22:25339
  - triplet state concentration of, ESR studies of effects of deuterium on, 21:27963
  - benzophenone—phenanthrene-d_{10}, reactions in, mechanism of collisional transfer of triplet excitation energy in, 21:15918(R) (TID-23710)

- PHENANTHRENE, DIHYDRO-
  - oxidation of, effects of deuterium on, 24:38831
  - oxidation of, effects of deuterium on kinetics of, 23:7506

- PHENANTHRENE, 9,10-DIHYDRO-4,5-DIMETHYL-
  - racemization of, effects of deuterium on, 23:6124

- PHENANTHRENE, 1,2,3,4,5,6,7,8-OCTAHYDRO-9,10-DIMETHYL-
  - deuterium exchange between, and sulfuric acid, 21:12401

- PHENANTHRENEQUINONE
  - oxime, complexes with metal ions, potentiometric studies on formation constants of, 25:4080
  - radioinduced reaction with olefins, photolysis of oxetanes from γ, 22:14531

- PHENANTHRIDINE
  - radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428

- Phenanthridinium, 3,8-Diamino-5-ethyl-6-phenyl-, Bromide
  - see Homidium Bromide

- 1,10-PHENANTHROLINE
  - chemistry in solution of, 23:213 (IS-1900, Paper 3)
  - complexes of, with iron sulfate, reactions of, with chlorine dioxide and sodium chlorite, 21:14183(R) (ORO-2858-18)
  - complexes with cobalt perchlorate, cobalt-58 thermal exchange in doped anhydrous and hydrated, 24:38917
  - complexes with cobalt perchlorate, radiation effects on anhydrous and hydrated, thermal annealing of recoils from neutron, 24:38917
  - complexes with cobalt perchlorates, cobalt-57 electron capture decay in, chemical effects from, 23:15921
  - complexes with europium, gadolinium, lanthanum, and ytterbium chlorides, thermal stability of, 24:36344 (CEA-N-1241, pp 375-425)
  - complexes with iron, radiation effects on stability of, in spectrophotometric determination of iron, 23:9306 (ORNL-4343, pp 62-84)
  - complexes with iron, reactions with chlorates, chlorites, and chlorine oxides, 23:9348(R) (COO-1780-3)
  - complexes with iron, reactions with oxidants, 22:12179(R) (ORO-2858-19)
  - complexes with iron, use for spectrophotometric study of transguanylations of AET and APT, 22:31181
  - complexes with molybdenum, effects of benzyl alcohol and thiocyanate on spot test for, 22:18714
  - complexes with scandium chloride and thiocyanate, conductivity and ir studies of, 23:13717
  - complexes with thorium, 22:45048
  - complexes with thorium and 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, properties and spectra of, 21:45099
  - complexes with uranium and thenoyltrifluoroacetone, fluorescence of urany ion in, 22:16548
  - complexes with uranium chlorides, preparation and physical properties of, 25:6327
  - complexes with uranyl ions and 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, preparation and properties of, 22:18795
  - complexes with uranyl nitrate, infrared spectra of, 22:14502
  - complexes with uranyl nitrate, luminescence spectra of, 22:33304
  - complexes with uranyl nitrates, spectra of, ir and Raman, 23:21684
  - complexes with uranyl thiocyanates, preparation and properties of, 21:32179
  - compounds with rhenium or technetium, preparation and properties of, 22:45032
  - effects on light and uv-induced changes in chloroplast size, 21:22778
  - iron(II) salts, effects on reduction of peroxydisulfate and thallium ions in ethanol, 21:30393(R) (COO-1001-14)
  - solvent properties for rare earths, 23:9530
  - solvent properties for rare earths, effects of benzoic acid, p-hydroxybenzoic acid, and salicylic acid on, 25:233
  - solvent properties for zinc in presence of sodium perchlorate with and without 8-quinolinol, 21:32139 (COO-676-1)
  - spectra in aqueous solutions, fluorescence and uv absorption, 24:31168 (IS-T-349)
  - use in fluorimetric determination of europium and samarium, 23:13639
  - use in fluorimetric determination of europium and terbium in yttrium oxides, 22:33220
  - use in gravimetric and volumetric determinations of uranium, 22:33290
  - use in precipitation of uranyl ions, 21:19574
  - uses in photometric determination of rare earths, 24:43948

- 1,10-PHENANTHROLINE, 4,7-DIMETHYL-
  - 4,7-dimethyl-1,10-phenanthroline—8-quinolinol, solvent properties for zinc in presence of sodium perchlorate, 21:32139 (COO-676-1)

- 1,10-PHENANTHROLINE, 4,7-DIPHENYL-
  - complexes with iron, solvent properties of hexanol for, 21:1240 (CEA-R-2969)
  - reactions with trichloroacetic acid, in determination of iron-59 in blood plasma by scintillation counting, chemiluminescent, 24:48045

- PHENAZINE
  - complexes with uranium chlorides, preparation and physical properties of, 25:6327
  - complexes with uranium pentachloride, properties and spectra of, 23:43329
  - electrochemistry in acidic methanol, 23:31255 (MIT-905-133, pp 37-77)
  - electrochemistry in acidic methanol solutions, 22:27626 (MIT-905-108, pp 33-62)
  - luminescence of, electro- and photochemical, 21:15878(R) (MIT-905-81)
  - photolysis in acidic methanol, 23:31255 (MIT-905-133, pp 37-77)
  - photolysis of acidic methanol solutions of, mechanism of uv, 22:27626 (MIT-905-108, pp 33-62)
  - photolysis of, in ethanol, quantum yield measurements on flash, 21:15918(R) (TID-23710)
  - photoreduction of, 25:34613 (TID-25689)
  - radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428

- PHENAZINE, 5-METHYL-
  - complexes with 2,5-cyclohexadiene-$\Delta(1,\alpha;4\alpha')$-dimalononitrile, electric conductivity and dielectric constant at low temperatures, 25:1104
- PHENAZINIUM COMPOUNDS
  - 1,3-diamino-5-methylphenazinium chloride, effects on radiosensitivity of bacteria, 21:20451
  - 3,7-diamino-5-phenylphenazium chloride, complexes with uranyl nitrate in nitric acid, equilibrium constants of, 21:19624
- Phenazone
  - see Antipyrine
- PHENELZINE
  - radioprotective effects of, in combination with 5-hydroxytryptophan on mice, x, 24:6061
- Phenergan (R)
  - see Promethazine
- PHENETHYL ALCOHOL
  - effects on x-radioinduced DNA degradation in Micrococcus radiodurans, 25:39965
  - radiolysis of, EPR spectra of radicals from, 22:18848
- α-Phenethyl Chloride
  - see Benzene, (1-Chloroethyl)-
- PHENETHYLAMINE
  - effects on protection of mice against lethal whole-body x radiation, 21:20274
  - sorptive properties for carbon dioxide, 21:32109
- Phenethylamine, 4-Hydroxy-
  - see Tyramine
- PHENETHYLAMINE, p-METHOXY-N-METHYL-
  - effects on sodium-22 uptake and histamine release by mast cells of rats, 24:31775
  - reaction product with formaldehyde, radioprotective effects of, on rodents, lethal whole-body x, 21:36645
- Phenethylamine, α-Methyl-
  - see Amphetamine
- PHENETOLE
  - complexes with boron fluorides, boron-10 exchange between, and boron fluoride in thermal dissociation, 21:32246
  - biphenyl—phenetole, stability of eutectic mixtures of, at 650 to 700°F in loops, 24:46436(R) (ORNL-TM-3099)
- PHENIX FAST REACTOR
  - boilers for, design problems with, 25:60077
  - breeding blankets for, definition of, 21:35593(T) (EURFNR-267)
  - buildings and facilities of, review of design parameters for, 23:45043
  - components design for, 21:42750
  - components for, design and fabrication of, 25:46233
  - construction of, 25:46281
  - construction of, problems during, 25:53906 (A/CONF.49/P-584)
  - construction of, problems with, 24:18578(T) (AEC-tr-7130)
  - construction of, review of problems in, 23:45035
  - construction of, schedule for, 23:47091 (ANL-7520(Pt.2), pp 243-53)
  - containment design parameters, 24:18578(T) (AEC-tr-7130)
  - containment structures for, design parameters of, 23:45038
  - containment vessel design for, 21:35708 (DRP/ML/FAR R-187)
  - control element drives for, description of, 22:18518
  - control system for, 25:60049
  - control system for, design parameters of, 23:45038
  - control system for, operation of, 23:45041
  - control systems for, development of, 25:46249
  - coolant activation in heat exchangers of, effects of neutron streaming on secondary, (T), 25:46250
  - coolant reservoir for, calculation of neutron flux distribution in liquid sodium, (E/T), 24:47850(T) (ORNL-tr-2354)
  - coolant reservoir for, neutron flux distribution in liquid sodium, (E/T), 24:24818 (CEA-N-1253)
  - cooling system for, design of components for, 25:46258
  - cooling system for, design parameters and flux diagrams for secondary, 23:45039
  - cooling system for, design parameters for, 22:35479
  - cooling system for, design parameters of, 23:45036
  - cooling system for, design parameters of, 23:45038
  - cooling system for, hydraulic characteristics and design requirements of, 24:52753
  - cooling system for, testing of components in liquid sodium, 24:43689 (CONF-700307-5)
  - core for, design parameters for, 22:35479
  - core for, hydraulic and structural problems in design of, 24:52920
  - core of, design parameters of, 23:45038
  - core of, design parameters of, 22:16188
  - core vessel for, design and fabrication of, 24:45996 (CONF-700307-4)
  - core vessel for, design and fabrication of, 25:46233
  - core vessel for, effects of earthquake ground motions on, (T), 25:48248 (CEA-CONF-1772)
  - data acquisition and processing systems for, operation of digital computer, 23:45044
  - description of, 22:37457
  - description of 250 MW(e), 22:18528
  - design, 21:34083(R) (DRP/ML/FAR R-188)
  - design and development of, 21:14095
  - design and performance objectives of, review of preliminary, 22:42147(T) (AEC-tr-6948)
  - design characteristics of, 25:60039
  - design of, safety criteria for, 22:53361
  - design parameters for, 25:53906 (A/CONF.49/P-584)
  - design parameters for 2SOMW(e), description of, 23:45037
  - design parameters for, analysis of, 22:35498
  - design parameters for, modification of, 23:47091 (ANL-7520(Pt.2), pp 243-53)
  - design parameters of, review of, 24:18578(T) (AEC-tr-7130)
  - development of, 1967 summary of, 23:4171 (NP-17597, pp 41-73)
  - development of, review of, 24:18578(T) (AEC-tr-7130)
  - development of, review of, 25:34203
  - development of, review of component characteristics and design problems in, 23:47152 (ANL-7520(Pt.2), pp 20-3)
  - development of, review of personnel for, 23:45035
  - development of, review of systems design parameters for, 23:45036
  - development of, summary of program for, 25:46232
  - development of, technical and economic objectives in, 23:4162(T) (AEC-tr-6985)
  - development program for, summary of, 22:50810(R) (TID-24696)
  - development program for, summary of, 25:25964
  - electrical systems for, 25:60049
  - experimental facilities of, description of water and liquid sodium in-pile loops in, 23:9201 (TID-24857)
  - fuel development for, 23:10272
  - fuel element cladding for, ultrasonic method for quality control of, 23:7711 (CEA-CONF-1082)
  - fuel element rupture detection methods in, 22:14257 (CEA-R-3339)
  - fuel elements for, 25:60085
  - fuel elements for, composition and fabrication of, 23:51102
  - fuel elements for, design parameters of, 23:45038
  - fuel elements for, design parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:45036
  - fuel elements for, development, fabrication, and testing of, 25:54092 (A/CONF.49/P-609)
  - fuel elements for, radiation testing of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 24:41009 (TRG-Report-1911, pp 26-35)
  - fuel elements for, specifications and testing of, 23:10304
  - fuel elements for, thermal performance of irradiated plutonium dioxide—uranium dioxide, 24:4855 (CEA-R-3878)
  - fuel elements for, thermal performance of irradiated plutonium dioxide—uranium dioxide, 24:23537(T) (EURFNR-707)
  - fuel handling equipment for, design of, 24:470
  - fuel handling facilities for, procedures for operation of, 24:1997 (CEA-CONF-1340)
  - fuel pellets for, specifications for plutonium dioxide—uranium dioxide, 23:10254
  - heat exchangers for, design problems with intermediate, 25:60077
  - heat exchangers for, neutron streaming toward, (T), 25:12782 (CEA-CONF-1683)
  - hot cell design for, 24:22921 (CEA-CONF-1419)
  - hydraulics in, design problems with liquid sodium, 24:52781
  - instrumentation for, 25:60049
  - instrumentation for, development of, 25:46249
  - loading machine for, 25:60087
  - loading machine for, 23:45040
  - loading method for, 21:35593(T) (EURFNR-267)
  - materials corrosion studies for, 23:18180(T) (ANL-Trans-703, pp 9-44)
  - neutron physics measurements for, description of, 22:35625
  - operating parameters of, 22:16188
  - operation of, calculation of parameters for optimum, 22:18518
  - operations parameters for, tabular summary of, 23:52317
  - physics calculations for, 22:14149(T) (ORNL-tr-1764)
  - physics characteristics of, tabular summary of, 23:52317
  - physics measurements for, 25:60039
  - physics measurements of, development programs for, (E/T), 24:22391
  - power level studies for 125 and 250 MW(e), 21:42750
  - pressure vessel for, design requirements of, 24:52780
  - pressure vessel of, suspension design for, 21:34082 (DRP/ML/FAR R-184)
  - pumps for, design problems with primary liquid sodium, 25:60077
  - pumps for, development of liquid sodium, 24:52892
  - radioactivity from, equipment and methods for control of, 24:44226 (CONF-700810-7)
  - remote handling equipment for, 25:60087
  - remote handling equipment for, 23:45040
  - remote handling facilities for, equipment and procedures for, 25:46274
  - safety instrumentation in, data tables on, 23:11254 (CEA-R-3550)
  - safety problems of, review of test program on, 23:45042
  - seismic effects on, mathematical method for, 24:33368
  - shielding for, comparison of calculation methods for upper, 24:47849 (CEA-N-1351)
  - shielding for, comparison of materials for optimum neutron, 24:49974 (CEA-N-1349)
  - shielding for, evaluation of design options for top, (T), 25:28677(T) (ORNL-tr-2451)
  - shielding for, Monte Carlo calculations for neutron, 25:23328 (CEA-CONF-1730)
  - shielding materials for, preparation and properties of carbon-base, 24:1066 (CEA-CONF-1355)
  - shielding of, TRIPOLI code calculation of neutron spectra in lower, 25:10193 (CEA-N-1359)
  - site for, preparation and excavation of, 25:60025
  - site for, preparation of, 25:46281
  - site of, review of data for selection of, 23:45043
  - storage facilities for, 23:45040
  - structures for, construction of foundation, 25:60025
  - testing program for, schedule for, 25:53906 (A/CONF.49/P-584)
  - turbine for, design parameters for 250 MW(e), 23:45034
- PHENOBARBITAL
  - effects on aniline hydroxylase activity in x-irradiated partially hepatectomized rats, 25:44934
  - effects on content of cytochrome P-450 in liver of rats, inhibition of, by nickel carbonyl, 22:6216(R) (ORO-3461-9)
  - effects on enzyme regulation in liver of rats, 22:28623 (ANL-7278, pp 132-43)
  - effects on γ-radiosensitivity of liver in rats, 22:28623 (ANL-7278, pp 132-43)
  - effects on incidence of hepatomas in rats fed acetylaminofluorene, 25:37866 (ANL-7770, pp 48-54)
  - effects on irradiated mice, 23:26869 (AD-672740)
  - effects on x-radiosensitivity of enzyme activity in rats, 23:18100
  - metabolism in dogs and rats, effects of deuterium on, 21:45788
  - preparation of deuterium-labeled, method for, 21:45788
  - radiation effects on anticonvulsant activity of, in mice, combined γ and neutron, 23:2917 (AFRRI-SR-68-10)
  - radiation effects on response of rats to, γ, 23:912
  - radiation effects on toxicity of, to mice, combined γ and neutron, 23:2918 (AFRRI-SR-68-12)
  - radiation effects on, γ, 21:21992
- PHENOBARBITAL SODIUM
  - radioprotective effects of vapor of, on survival of mice, x, 22:31252
- PHENOL
  - association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
  - complexes with uranyl compounds, properties of, potentiometric studies of, 21:21923
  - content of human urine, effects of electromagnetic waves and vibration on, 22:25970
  - derivatives of, characterization of radioprotective and tumor-inhibiting, 21:26501
  - deuterium exchange reactions with hydrogen in, catalyzed by nickel on kieselguhr, 21:17634
  - effects of Santovar A on γ-induced polymerization of hydroxymaleimide, 21:25881
  - effects of, on luminescence of serum albumin solution, 21:10752
  - effects on hydroxylating systems, method for determining, 21:32108
  - effects on immune reactions to injected bacterial endotoxins in mice, 21:18163
  - effects on radiolysis of water, 25:2267
  - effects on reactions of tetravalent uranium with trivalent chlorine, mechanism of, 25:26266
  - effects on Streptococcus faecalis, protective effects of γ radiation against, 25:44979
  - effects on viability of E. coli, protective effects of manganese dioxide-supplemented culture media against, 21:24481
  - fluorescence quantum yields of, effects of deuterium on, 21:8285
  - formation in γ-radiolysis of benzene—nitrous oxide systems, 21:35990(R) (RRL-2310-208)
  - hydrogen bonding in, deuterium isotope effects on anharmonicity and frequency constants for, 23:21699
  - oxidation of aqueous, dye-sensitized photochemical, (E), 24:35527(R) (COO-1052-12)
  - production by mixed γ and neutron radioinduced oxidation of vaporous benzene by molecular oxygen, 25:6355
  - radiation effects on content of poly-, in potatoes after cutting, cobalt-60 γ, 23:3006
  - radiation effects on content of, in barley, effects of dose, environment, and strain on cobalt-60 γ, 23:50927 (SGAE-LA-1/1969)
  - radiation effects on formation of, in rats, 21:10745
  - radiation effects on odor of, in rivers, 23:45408
  - radiation effects on sorption of, by lithium, potassium, and sodium forms of KU-2 ion exchanger, γ, 22:27814
  - radiation effects on, in waste water, 24:33722
  - radioinduced carbonylation of aqueous, yields of salicylaldehyde from γ, 23:49828
  - radioinduced degradation of, in industrial and municipal wastes, γ, 23:50960
  - radioinduced formation of, in benzene—water solutions, chemical dosimetry by, 21:5961
  - radioinduced preparation of, using SHF plasmatron, 21:12475
  - radiolysis at low temperature, EPR studies on mechanism of free radical production from, 23:35217
  - radiolysis of aqueous solutions of, effects of additives on yields from, 23:4667
  - radiolysis of aqueous solutions of, effects of hydrogen peroxide, pH, and temperature on γ, 24:33733
  - radiolysis of aqueous solutions of, effects of water elimination on radicals in electron-pulse, 21:28870
  - radiolysis of crystals of, kinetics of decomposition of free radicals produced by, 25:48559
  - radiolysis of crystals of, processes for annealing of free radicals formed by, 25:18473
  - radiolysis of solid, ESR spectral studies on formation of radical pairs from γ, 23:21753
  - radioprotective effects of, on mice, combined effects of cystamine on x, 22:28548
  - reactions of unhindered, with 2,4,6-tri-t-butylphenoxy radical, effects of deuterium on, 21:15886
  - reactions of, with bases, effects of deuterium on hydrogen bonding in, 21:1341
  - reactions of, with ethanol and other phenols on thorium dioxide, 21:58
  - reactions with bromine in acetic acid, effects of deuterium on, 22:4122
  - reactions with tertiary amines, effects of deuterium on hydrogen bridge formation in, 23:24190
  - reactions with uranium tetrachloride, preparation of uranium phenoxide compounds by, 24:38860
  - reactions with uranyl chlorides, preparation of uranyl phenoxide compounds by, 24:38846
  - sorption on irradiated and nonirradiated KU-2 sulfopolystyrene ionites, 23:26293
  - titration in nonaqueous solvents, coulometric, 21:47013 (IS-T-159)
  - use of resin of, for removal of radioactive contamination from skin, 24:19313(P)
  - use with sodium trichloroacetate for extraction of DNA from rat thymus gland tissues, 21:17997
  - use with sodium trichloroacetate for extraction of DNA from rat thymocytes maintained in vitro, 21:17974
  - yields from γ radiolysis of aqueous benzene solutions, effects of argon, iron ions, and nitrous oxide on, 23:19796

yields from γ radiolysis of aqueous solutions of benzene, 23:49875
yields from γ radiolysis of aqueous solutions of phenyl glucopyranoside, effects of radical scavengers on, 25:26304
yields from γ radiolysis of phenyl acetate, effects of glassy or polycrystalline state on, 24:11613
yields from radiolysis of benzene—water system, 21:19708
yields in electron and γ radiolysis of benzene—nitric oxide system, 23:9437
yields in gamma radiolysis of oxygen-saturated benzene solutions containing ferric or ferrous sulfate, 22:23072
yields in γ radiolysis of aqueous anisole solutions, 22:37812
yields in γ radiolysis of aqueous benzene solutions containing oxygen, 22:16584
yields in radioinduced hydroxylation of anisole in dilute aqueous solutions, 22:96(R) (RRL-2310-214)
yields in radiolysis of benzene in aqueous solution in presence of oxygen, effects of acidity on, 22:27813
yields in radiolysis of benzene vapor containing nitrous oxide, 22:30591(R) (RRL-2310-231)
yields in radiolysis of dilute aqueous solutions of fluorobenzene, 22:30591(R) (RRL-2310-231)
yields in radiolysis of gaseous benzene—nitrous oxide mixtures, 22:96(R) (RRL-2310-214)
yields of, in radioinduced hydroxylation of aqueous nitrobenzene solutions, 21:1380(R) (RRL-2310-188)
benzene—phenol, solvent properties for selenium, 23:4724
C—phenol, thermal decomposition of ablator of, at 104 to 718 deg C, kinetics of, 21:3016 (SC-RR-66-584)
formaldehyde—phenol, radioinduced curing of prepolymers of, in presence of chlorine-containing additives, 23:26286
H_2O—phenol, density isotherms for, (E), 22:12951 (NYO-2731-3)
nitrobenzene—phenol—sodium dodecylbenzenesulfonate, solvent properties for cesium-137 from environmental materials, 24:31450
phenol—toluene, radiolysis of solid, EPR studies on radical formation in electron, 23:35160
PHENOL, m-AMINO-
radioprotective effects in mice, x, 21:6570
PHENOL, o-AMINO-
complexes with uranyl ions, stability of, 23:124
radioprotective effects in mice, x, 21:6570
reactions with cytidine, transamination products from, 22:2050
use as colorimetric reagent for cerium(IV), 25:34530
PHENOL, p-AMINO-
radiolysis at low temperature, EPR studies on mechanism of free radical production from, 23:35217
yields from radioinduced hydroxylation of 4-nitrophenol, 22:16585
PHENOL, 2-AMINO-4-CHLORO-
complexes with uranyl ions, stability of, 23:124
PHENOL, 5-AMINO-2-[3-(1-METHYL-2-PIPERIDYL)-2-PYRIDYLAZO]-
effects on photometric determination of uranium, 23:11419
use in photometric determination of niobium, 23:11415
PHENOL, 2-AMINO-4-NITRO-
complexes with uranyl ions, stability of, 23:124
Phenol, 2-Amino-4-sulfo-
see Metanilic Acid, 4-Hydroxy-
Phenol, 4,4'-Arsenobis[2-amino-, dihydrochloride
see Arsphenamine
PHENOL, o-BROMO-
enthalpies of intramolecular hydrogen bonds of vapors of deuterated and normal, infrared spectral studies on, 22:4125
PHENOL, p-BROMO-
radiolysis of aqueous solutions of, activation energies for reactions of hydrated electron in pulse, 23:40733
radiolysis of aqueous solutions of, optical absorption spectra of phenoxy radicals produced by electron pulse, 25:10631
radiolysis of aqueous solutions of, products from γ, 24:19021
radiolysis of aqueous solutions of, structure of products from γ, 24:41376
radiolysis of deaerated aqueous solutions of, spur reactions in electron pulse and γ, 25:21043
radiolysis of ethanol solutions of, yields of hydrogen from electron pulse, 25:18448(R) (CEA-N-1369)
radiolysis of neutral aqueous solutions of, yield of hydrogen ions from γ and electron pulse, 23:35242
reactions with hydrated electrons, activation energy for, 22:23034 (IA-1128, pp 78-96)
PHENOL, 2-[(5-BROMO-2-PYRIDYL)AZO]-5-(DIETHYLAMINO)-
uses for spectrophotometric determination of uranium, 25:18352
PHENOL, p-tert-BUTYL-
deuterium exchange reactions with hydrogen in, catalyzed by nickel on kieselguhr, 21:17634
PHENOL, 4-sec-BUTYL-2-(α-METHYLBENZYL)-
effects on solvent extraction of alkali metals by bis(2-ethylhexyl) phosphate, 22:16691
solvent properties for cesium, 22:16651
solvent properties for cesium from urine after ammonium molybdophosphate ion exchange, 25:28983
solvent properties for cesium, effects of various synergistic reagents and diluents on, 22:33504
solvent properties for cesium, rare earths, and strontium, 21:17736(P)
4-sec-butyl-2-(α-methylbenzyl)phenol—bis(2-ethylhexyl) phosphate, solvent properties for fission products, 21:30526(P)
PHENOL, tert-BUTYL-4-METHOXY-
effects on γ-radiosensitivity of olive oil, 23:4990
effects on rate of radiolysis of C_{18} unsaturated fatty acids, 23:24235
PHENOL, m-CHLORO-
association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
PHENOL, o-CHLORO-
association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
enthalpies of intramolecular hydrogen bonds of vapors of deuterated and normal, infrared spectral studies on, 22:4125
PHENOL, p-CHLORO-
association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
effects on calcium-45 and strontium-89 distribution in mitochondria of liver of rats, 25:4431
PHENOL, 4-CHLORO-2-PHENYL-
solvent properties for cesium, 22:16651
PHENOL, 2,4-DI-tert-BUTYL-
radiation effects on single crystals of, ESR studies of γ, 23:258
PHENOL, 2,6-DI-tert-BUTYL-
radiation effects on single crystals of, ESR studies of γ, 23:258
PHENOL, 2,6-DI-tert-BUTYL-4-METHYL-
effectiveness for treatment of x-radioinduced skin ulcers in rats, 25:42541
effects on yields from γ radiolysis of 2-methyl-2-propanol, 25:34659
radiation effects on tunneling rotation of methyl groups in, ESR studies on γ, 23:45297
PHENOL, 5-(DIETHYLAMINO)-2-(2-PYRIDYLAZO)-
properties as reagent in spectrophotometric determination of uranium, 23:49704
uses in spectrophotometric determination of uranium in ores, 24:11438
PHENOL, 4,4'-(1,2-DIETHYLETHYLENE)DI-
DIHYDRO-, effects on glycogen content and carbohydrate metabolism in lethally x-irradiated rats, 21:22285
radioprotective effects of, on glycogen content in neutrophils of mice, 21:34722
PHENOL, 2,6-DIIODO-4-NITRO-
effects on content of protein-bound iodine in dogs, 23:2802
PHENOL, 5-(DIMETHYLAMINO)-2-(2-THIAZOLYLAZO)-
use in colorimetric determination of uranium, 21:32
PHENOL, 2,4-DINITRO-
dissociation of, effects of deuterium in solvent on, 22:10221
effects on absorption of cerium-144, cobalt-58, and zinc-65 by gastrointestinal tract of fresh-water mussels, 21:16298
effects on ATP metabolism and cyclic labeling of DNA in γ or x-irradiated L cells, 24:21073
effects on ATP synthesis by L cells, 21:45497(R) (N-67-23267)
effects on calcium, potassium, and sodium content of rabbit tissues, 22:47611
effects on calcium-45 and strontium-89 activity in subcellular fractions of rat liver, 22:16989
effects on cesium-134 uptake by barley roots, 21:26664
effects on exchange of rubidium-86 and potassium in roots of rice and sorghum, 23:41222
effects on excited flavin-amino acid system, 21:18000
effects on excretion of phosphorus-32 in urine of x-irradiated rats, 22:51482
effects on fast-neutron and x radiosensitivity of chromosomes in barley seeds, 21:34642
effects on flux ratios of solutes through membranes, effects of hyperosmotic solutions on, 22:50891(R) (RLO-1754-11)
effects on γ-radiosensitivity of activity of lymphatic hearts of frogs, 22:31132
effects on γ-radiosensitivity of barley seed, 24:25604
effects on γ-radiosensitivity of oxidative phosphorylation and mitochondria of potato tubers, 22:19253
effects on iron-59 uptake by reticulocytes in rabbits, 24:39423
effects on loss of photoreversibility of uv-radioinduced lethal injuries and mutation in radiosensitive and radioresistant Escherichia coli, 24:2628
effects on metabolism of calcium and strontium in Tetrahymena, 22:40515 (NYO-1822-25)
effects on metabolism of lead-210, polonium-210, and strontium-89 in kidney bean plants, 22:6728
effects on mitosis in hamster cells, inhibitory, 23:2157 (LA-DC-9384)
effects on oxidative phosphorylation in γ-irradiated beans, 24:48412
effects on phosphorylation in γ and uv-irradiated Saccharomyces vini, 23:20431
effects on pollen growth and mitosis, 24:44632
effects on radioinduced lethal mutations in Drosophila, 25:39908
effects on radioisotope uptake by tracheal cells of guinea pigs, 22:12804
effects on recovery of Escherichia coli following uv or x irradiation or nitrogen mustard treatment, 25:55355
effects on recovery of γ-irradiated yeasts, 24:8020
effects on repair of L cells following x radiation, 23:16372
effects on Rhizobium mutants, correlation of, with uv radiation, 22:40653
effects on roots in carbon dioxide and air, 22:21011(R) (UCB-34-P-5-47)
effects on sensitivity of animals to microbial toxins, 21:11032
effects on strontium uptake and accumulation by wheat, 22:49206
effects on transport of calcium-45 and strontium-89 through bean stem, 23:35624
effects on unscheduled DNA synthesis in x-irradiated mammalian cultured cells, 25:27002
effects on uptake of carbon-14-labeled proline and cesium-137 by carrot and potato plant cells, 21:14595
effects on x-radiosensitivity of L cells, effects of cell phase on, 24:32145
effects on x-radiosensitivity of respiration in erythrocytes of rabbits, 22:45428
effects on x-radiosensitivity of sodium-22 permeability in Nitella flexilis, 23:24765
radioprotective effects of, on ATP-deficient L cells, x, 22:6749
radioprotective effects of, on incidence of DNA breaks in cultured L cells, 23:38478
radioprotective effects of, on thymocyte nuclei in rats, γ, 22:21581
radioprotective effects on amphibian larvae, x, 21:36644
PHENOL, 3,5-DINITRO-
dissociation constant of, effects of deuterium in heavy water on, 23:45280
PHENOL, DODECYL-
solvent properties of ethoxylated, for use in scintillation counting of aqueous samples, 24:22599(P)
PHENOL, p-ETHYL-
deuterium exchange reactions with hydrogen in, catalyzed by nickel on kieselguhr, 21:17634
PHENOL, m-FLUORO-
yields in radiolysis of dilute aqueous solutions of fluorobenzene, 22:30591(R) (RRL-2310-231)
PHENOL, o-FLUORO-
enthalpies of intramolecular hydrogen bonds of vapors of deuterated and normal, infrared spectral studies on, 22:4125
PHENOL, p-FLUORO-
yields in radiolysis of dilute aqueous solutions of fluorobenzene, 22:30591(R) (RRL-2310-231)
PHENOL, o-FORMIMIDOYL-
complexes with copper and nickel, effects of deuterium on, 22:21077
PHENOL, 2-(2-HYDROXYPHENYLAZO)-
complexes with molybdenum for determination in stainless steel, 23:19624
PHENOL, 2-[N-(o-HYDROXYPHENYL) FORMIMIDOYL]-6-METHOXY-
complexes with nickel and uranyl ions, distribution coefficients and stability constants of, 23:109
complexes with uranyl ions, molecular structure of, x-ray crystallographic studies on, 25:46497
PHENOL, o-IODO-
enthalpies of intramolecular hydrogen bonds of vapors of deuterated and normal, infrared spectral studies on, 22:4125
PHENOL, p-ISOPROPYL-
deuterium exchange reactions with hydrogen in, catalyzed by nickel on kieselguhr, 21:17634
PHENOL, 4,4'-ISOPROPYLIDENEDI-
carbonate polymers, injection molding in hot and cold dies, 21:28132(R) (UCRL-13287)
PHENOL, 5-ISOPROPYL-4-METHYL-5'-NITRO-2,2'-AZODI-
5-isopropyl-4-methyl-5'nitro-2,2'-azodiphenol—N-phenylbenzohydroxamic acid, solvent properties for scandium, 23:28959
PHENOL, m-METHOXY-
yields in γ radiolysis of aqueous anisole solutions, 22:37812
PHENOL, o-METHOXY-
yields in γ radiolysis of aqueous anisole solutions, 22:37812
PHENOL, p-METHOXY-
deuterium exchange reactions with hydrogen in, catalyzed by nickel on kieselguhr, 21:17634
yields in γ radiolysis of aqueous anisole solutions, 22:37812
PHENOL, 2-METHOXY-4-HYDROXY-
radioinduced reaction of, with oxygen to yield vanillin, 22:23081(P)
PHENOL, 4-METHOXY-2-(2-THIAZOLYLAZO)-
use in spectrophotometric determination of uranium, 23:60
PHENOL, 5-METHOXY-2-(2-THIAZOLYLAZO)-
use in spectrophotometric determination of uranium, 23:60
Phenol, 2-Methyl-
see o-Cresol
Phenol, 3-Methyl-
see m-Cresol
Phenol, 4-Methyl-
see p-Cresol
PHENOL, p-(METHYLAMINO)-
sulfate, reactions with hydrogen peroxide, use in volumetric determination of metals, 21:21892
PHENOL, METHYLENEBIS[3,4,6-TRICHLORO-
effects on uv-photoallergic reactions of skin of man, 22:19361
effects on uv-radiosensitivity of human skin, 22:49598
radiation effects on allergic reactions of human skin to, uv, 21:39352
PHENOL, m-NITRO-
association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
radiolysis of substituted, isomeric effects on yields from, 23:40676 (BNL-50149, pp 40-75)
yields in gamma radiolysis of aerated aqueous nitrobenzene solutions, effects of dichromate additions and dose rate on, 22:2116
PHENOL, o-NITRO-
association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
dissociation of, effects of deuterium in solvent on, 22:10221
radiolysis of substituted, isomeric effects on yields from, 23:40676 (BNL-50149, pp 40-75)
yields in gamma radiolysis of aerated aqueous nitrobenzene solutions, effects of dichromate additions and dose rate on, 22:2116

  carbon tetrachloride—o-nitrophenol, effects on bonding and interactions in tetradecylammonium uranyl chloride, ir spectral studies on, 22:12299
PHENOL, p-NITRO-
  association equilibrium constants in cyclohexane, carbon tetrachloride, and benzene, 22:22908(R) (SC-CR-68-3521)
  complexes with uranyl ions, preparation and stability of, 21:21940
  effects on x-radiosensitivity of L cells, 23:6568 (N-68-23533)
  radiation effects on rat metabolism of, whole-body x, 25:42289
  radioinduced hydroxylation of, dehydridation of intermediate cyclohexadienyl radicals in, 22:16585
  radiolysis of aqueous solutions of, activation energies for reactions of hydrated electron in pulse, 23:40733
  radiolysis of aqueous solutions of, ESR studies on transient radicals in electron, 25:31998
  radiolysis of substituted, isomeric effects on yields from, 23:40676 (BNL-50149, pp 40-75)
  radiolysis of, reactions of transients in electron pulse, 23:47511
  radiolysis of, yields from γ, 21:3119
  yields in gamma radiolysis of aerated aqueous nitrobenzene solutions, effects of dichromate additions and dose rate on, 22:2116
  yields in radioinduced hydroxylation of aqueous nitrobenzene solutions, 21:1380(R) (RRL-2310-188)
  yields in radioinduced hydroxylation of nitrobenzene in aqueous solutions, 21:14240(R) (RRL-2310-194)
  yields in radiolysis of nitrobenzene in dilute solutions, 21:27996(R) (RRL-2310-199)
PHENOL, p-NITROSO-
  radiation effects on oxidation of, in aqueous solutions, ESR spectral studies on comparison of ceric sulfate effects with, 23:11529 (BNWL-481-2, pp 127-53)
  spectra of radioinduced free radicals in aqueous solutions of, ESR, 21:38815(R) (BNWL-293)
PHENOL, NONYL-
  solvent properties of ethoxylated, for use in scintillation counting of aqueous samples, 24:22599(P)
PHENOL, PENTACHLORO-
  effects on calcium-45 and strontium-89 activity in subcellular fractions of rat liver, 22:16989
PHENOL, o-PHENYL-
  solvent properties for cesium, 22:16651
  use in determination of role of phytoene in synthesis of acyclic carotenoids, 21:32628
  use in precipitation and spectrophotometric determination of uranium, 23:26
PHENOL, p-PHENYL-
  effects on solvent extraction of tetraheptylammonium fluoride using toluene, 22:37718 (UCRL-17989, pp 181-252)
PHENOL, o-(N-2-PYRIDYLFORMIMIDOYL)-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
Phenol Red
    see Phenolsulfonephthalein
PHENOL, 2,2'-THIOBIS[4,6-DICHLORO-
  effects on uv-photoallergic reactions of skin of man, 22:19361
  effects on uv-radiosensitivity of human skin, 22:49598
  radiation effects on allergic reactions of human skin to, uv, 21:39352
  radioinduced allergic reactions to, in skin of man, uv, 22:38213
Phenol, 2,4,6-Trinitro-
    see Picric Acid
PHENOLPHTHALEIN, 3',3"-BIS[[BIS(CARBOXYMETHYL)AMINO]METHYL]-
  complexes with thorium, spectrophotometric analyses based on, 25:34532
PHENOLPHTHALEIN, 3,3"-BIS[[BIS(CARBOXYMETHYL)AMINO]-METHYL]-5',5"-DIISOPROPYL-2',2"-DIMETHYL-
  complexes with thorium, spectrophotometric analyses based on, 25:34532
  use for spectrophotometric determination of rare earths, 21:12339
PHENOLPHTHALEIN, 3',3",5',5"-TETRABROMO-
  reactions with tridodecylamine and alkylammonium salts in cyclohexane, dissociation constants for, 21:19519 (CEA-R-3118)
PHENOLS
  compounds of, radiation effects on content of in citrus fruit peel, γ, 23:35643
  effects on fluorescence in uranyl sulfate solutions, 23:11522
  effects on quinone content of irradiated tumors, 24:34411
  polymers, effects on radioinduced grafting of ethylenically unsaturated organic acids or their salts to polyamides, polyurethans, polyureas, or polysulfonamides, 24:16603(P)
  polymers, effects on yields from γ radiolysis of aqueous solutions of anthocyanin pigments, 24:27145
  positron lifetimes in, relation to molecular properties, 25:24877
  radiation chemistry of, bibliography on, 23:6147 (COO-38-643)
  radiation effects on content of hydroxides of, in poplar wood, fast neutron and γ, 25:506
  radioinduced, in potatoes, effects of, on plant growth, 24:32270
  synthesis of radioprotective compounds from, 23:45786
PHENOLSULFONEPHTHALEIN
  effects on iodine-131 uptake by chicken and guinea pig thyroid in vitro, 23:41220
PHENOTHIAZINE
  derivative, reactions with sulfur-35, 21:3021
  effects on concentration of manganese and copper in brains of animals, 24:118
  effects on content of manganese in basal ganglia of monkeys, use of activation analysis to study, 23:4566
  effects on copper and manganese content in brain tissue in subhuman primates, activation analysis studies on, 23:9306 (ORNL-4343, pp 62-84)
  effects on copper and manganese content of monkey brain, use of neutron activation for determining, 23:35583 (ORAU-107, pp 245-8)
  effects on hemolysis of uv-irradiated erythrocytes, 25:18914
  effects on production of melanin in human skin, combined effects of uv radiation on, 22:4672
  effects on uv-radiosensitivity of skin, 22:40770
  effects on uv-radiosensitivity of skin of guinea pigs and man, 23:29580
  nitrogen-14 nuclear electric quadrupole interaction in, 22:46199 (UCRL-18043, pp 183-98)
  reactions of, with sulfur-35, 21:3021
  use of derivatives of, for treatment of emetic symptoms of radiation sickness in frogs and pigeons, 24:2724
3H-PHENOTHIAZINE, 7-AMINO-3-IMINO-
  preparation of technetium-99-labeled macroaggregates of, for lung scanning, 24:14538
  radiolysis of aqueous solutions of, ESR spectral studies on radicals produced from γ, 23:13740 (BNWL-715(Pt.2), pp 151-79)
Phenothiazine, 2-Chloro-10-(3-dimethylaminopropyl)-
    see Chlorpromazine
Phenothiazine, 2-Chloro-10-[3-(4-methyl-1-piperazinyl) propyl]-
    see Proclorperazine
Phenothiazine, 10-(2-Dimethylaminopropyl)-
    see Promethazine
Phenothiazine, 10-[3-(Dimethylamino)propyl]-2-(trifluoromethyl)-
    see Triflupromazine
Phenothiazine, 2-(Ethylthio)-10-[3-(4-methyl-1-piperazinyl)-propyl]-
    see Thiethylperazine
PHENOXIDES
    see also Potassium Phenoxide
    see also Sodium Phenoxide
  polymers, use as solid particle track detector, 22:327
  preparation and reactions of triad element, 25:41780(T) (SC-T-713038)
PHENOXY, HYDROXY-
  radiation effects on content of, in shoots of poplars, fast neutron and γ, 25:13598
PHENOXY RADICALS
  yields from electron pulse radiolysis of aqueous p-bromophenol solutions, optical absorption spectra of, 25:10631
PHENOXY RADICALS, 2,4,6-TRI-tert-BUTYL-
  reactions with unhindered phenols, effects of deuterium on, 21:15886
PHENTOLAMINE
  effects on membrane permeability and rubidium-86 efflux in guinea pigs, 23:24562
  effects on oxygen consumption in mouse tissues, 21:8901
  effects on radioprotective action of TAB vaccine on x-irradiated mice, 25:19026
  methanesulfonate, effects on radioprotective effects of typhoid—paratyphoid vaccine in mice, 21:14691
  radioprotective effects on mice, x, 21:45660 (NP-16872)
PHENYL BORATES
  radiolysis of, 25:37427
  stability of, effects of temperature on, 25:37427
  uses in substoichiometric separation in activation analysis, 21:10276
Phenyl Carbinol
    see Benzyl Alcohol
PHENYL DISELENIDE
  complexes with uranium chloride, preparation and physical properties of, 25:6327
  complexes with uranium pentachloride, properties and spectra of, 23:43329
  reactions with cyclopentadienyl transition metal complexes, 22:27834
PHENYL DISULFIDE
  complexes with uranium chloride, preparation and physical properties of, 25:6327
  complexes with uranium pentachloride, properties and spectra of, 23:43329
  effects on γ radiolysis and uv photolysis of polyacrylophenone, ir spectral studies on mechanism of, 24:20803
  effects on reactions in γ radiolysis of benzophenone in cyclohexene solutions, quenching, 23:6163
  radiolysis at low temperature, EPR spectral studies on mechanism of free radical production from, 23:35217
  reactions with cyclopentadienyl transition metal complexes, 22:27834
PHENYL DITELLURIDE
  complexes with uranium chloride, preparation and physical properties of, 25:6327
  complexes with uranium pentachloride, properties and spectra of, 23:43329
  radiation effects on reactions of, with cyclopentadienyl molybdenum carbonyls, 22:27834
  reactions with cyclopentadienyl transition metal complexes, 22:27834
PHENYL ETHER
  burnout heat flux of, pressure effects on pool boiling, 21:43175
  deuterium exchange between methyl sulfoxide and, catalytic effects of lithium and potassium tert-butoxide on, 22:45087
  polymers of, compatibility with copper, effects of oxygen on, 21:20608(R) (NASA-CR-54716)
  polymers, effects on performance of SNAP-8 tantalum boiler for mercury containment, 24:29941 (N-70-19707)
  properties for use in thermoelectric converter heat pipes, 24:31533(R) (LA-4446)
  radiolysis of, comparative ESR studies on electron, γ, and uv, 25:37431
  testing for use as heat pipe fluid, method for life, 22:19033(R) (LA-3881)
  tritium exchange between tritium oxide and, in presence of platinum oxide, effects of internal radiation on rate of, 22:8058
  biphenyl—phenyl ether, degradation at 700°F, pyrolytic, (E), 23:50027(R) (SAN-651-107)
  biphenyl—phenyl ether, pyrolytic degradation at 650 and 700°F, 22:45221(R) (SAN-651-65)
  biphenyl—phenyl ether, pyrolytic degradation at 700°F, 23:33325(R) (SAN-651-96)
  biphenyl—phenyl ether, pyrolytic degradation at 700°F, (E), 23:19896(R) (SAN-651-77)
  biphenyl—phenyl ether, stability in organic Rankine cycle power conversion systems, evaluation of thermal, (E), 22:25617(R) (SAN-651-49)
  biphenyl—phenyl ether, thermal stability in organic Rankine cycle power conversion system, fabrication of loop to study, (E), 22:10506(R) (SAN-651-43)
  biphenyl—phenyl ether, thermal stability in organic Rankine cycle power conversion system, (E), 23:9613(R) (SAN-651-71)
  biphenyl—phenyl ether, thermal stability in Rankine cycle loop tests at 650°F, 22:30768(R) (SAN-651-57)
  biphenyl—phenyl ether, thermal stability of, at 700°F, (E), 23:50026 (SAN-651-101)
  biphenyl—phenyl ether, thermodynamic and lubricating properties of, in Rankine cycle power conversion systems, 23:7702
  biphenyl—phenyl ether, use as working fluid in organic Rankine cycle space power systems, 21:36236(R) (SAN-651-33)
  biphenyl—phenyl ether, use as working fluid in organic Rankine cycle power systems, 21:19451(R) (SAN-651-16)
  biphenyl—phenyl ether, use as working fluid in Rankine cycle power conversion systems, 21:30634(R) (SAN-651-25)
  biphenyl—phenyl ether, use as working fluid in RISE for hydrospace studies, 22:16743
  biphenyl—phenyl ether, use in Rankine-cycle power conversion systems, 21:8015(R) (SAN-651-8)
Phenyl Oxide
    see Phenyl Ether
PHENYL PHOSPHATE
  radiation effects on, reactions of phosphorus-32 recoils produced by Szilard-Chalmers reaction in neutron, 23:328
PHENYL RADICALS
  yields from electron pulse radiolysis of aqueous iodobenzene solutions, optical absorption spectra of, 25:10631
  yields in radiolysis of benzoyl peroxide at low temperature, 21:40886
PHENYL SELENIDE
  radiolysis of, labeled yields from neutron, 24:27156
PHENYL SELENOXIDE
  radiolysis of, labeled yields from neutron, 24:27156
  solvent properties for perrhenate and pertechnetate ions in hydrochloric acid, effects of basicity on, 22:6413
Phenyl Sodium Sulfates
    see Sodium Phenyl Sulfates
PHENYL SULFATE
  derivatives, hydrolysis of, effects of deuterium and hydronium ion on, 21:5893
PHENYL SULFIDE
  neutron reactions (n,p), reactions of recoil phosphorus-32 with compounds produced by, 23:43375
  neutron reactions with, phosphorus-32 and sulfur-35 products from, 23:47573
  radiolysis at low temperature, EPR spectral studies on mechanism of free radical production from, 23:35217
PHENYL SULFONE
  neutron reactions (n,p), reactions of recoil phosphorus-32 with compounds produced by, 23:43375
  neutron reactions with, phosphorus-32 and sulfur-35 products from, 23:47573
  radiolysis at low temperature, EPR spectral studies on mechanism of free radical production from, 23:35217
PHENYL SULFOXIDE
  complexes with β-diketones and uranyl ions, spectra of, ir and NMR, 23:35122
  complexes with tetravalent thorium, effects of anions on, 25:51435
  complexes with thorium, 22:45048
  complexes with thorium nitrate and uranyl nitrate, preparation, properties, and spectra of, 24:50369 (CONF-690916-(Vol.2), pp 308-11)
  complexes with uranium tetrachloride, preparation and characterization of, 23:6111
  complexes with uranium, properties and spectra of, 24:11540
  effects on solvent properties of TTA for uranyl ions, 25:6406
  neutron reactions with, phosphorus-32 and sulfur-35 products from, 23:47573
  oxygen-18 exchange in acetic or chloroacetic acid, 22:42678
  solvent properties for perrhenate and pertechnetate ions in hydrochloric acid, effects of basicity on, 22:6413
  solvent properties for transition elements from hydrochloric acid, 24:36377
PHENYL TELLURIDE
  radiolysis of, labeled yields from neutron, 24:27156
  tellurium-132 decay in carbon disulfide or toluene solutions of, chemical behavior of iodine-132 formed by, 23:6191
Phenylalanine
    see Alanine, Phenyl-
Phenylalaninase
    see Phenylalanine 4-Hydroxylase
PHENYLALANINE AMMONIA-LYASE
  radiation effects on activity of, in citrus fruit peel, γ, 23:35643
  radiation effects on activity of, in citrus fruit peel, γ, 24:6006
  radiation effects on activity of, in grapefruit, effects of dose on γ, 24:48420

  radiation effects on activity of, in grapefruit, γ, 24:48421
  radiation effects on activity of, in sweet potato root slices, combined effects of cutting on cobalt-60 γ, 23:35656
PHENYLALANINE 4-HYDROXYLASE
  activity of, use of isotopic analysis in measurement of, 21:32108
  effects on hydroxylation of deuterated and tritiated phenylalanine, mechanism of, 22:2169
Phenylarsonates
    see salts under Benzenearsonic Acid
Phenylarsonic Acid
    see Benzenearsonic Acid
Phenylbutazone
    see 3,5-Pyrazolidinedione, 4-Butyl-1,2-diphenyl-
PHENYLENE POLYMERS
  properties for use as graphite binder, 24:44786(R) (LA-4480)
  properties for use as graphite binders, 25:4840(R) (LA-4526)
  radioinduced free radicals in, ESR studies of pulsed electron, 22:34130 (NP-17353)
o-PHENYLENEDIAMINE
  complexes with uranium tetrachlorides, preparation and characterization of, 23:6111
p-PHENYLENEDIAMINE
  effects on radiation damage to tributyl phosphate, 21:38993(P)
  3-methylpentane—tetramethyl-p-phenylenediamine, photoionization effects on electric conductivity of, 21:33526
m-PHENYLENEDIAMINE, N'-BENZYLIDENE-N,N-DIMETHYL-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
p-PHENYLENEDIAMINE, N'-BENZYLIDENE-N,N-DIMETHYL-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
p-PHENYLENEDIAMINE, N,N-BIS(2-HYDROXYPROPYL)-
  uses for colorimetric determination of cerium, 21:12338
p-PHENYLENEDIAMINE, N,N,-DIMETHYL-
  hydrochloride, reactions with alcoholic salicylaldehyde and ammonia to yield reagent for detection of hexavalent uranium, 23:6069(P)
  hydrochloride, reactions with salicylaldehyde and ammonia to produce reagent for detection of uranium, 21:35907(P)
  radiolysis of, effects of solvent on absorption spectra from pulse, 22:27775
  reactions with hydrogen peroxide, use in volumetric determination of metals, 21:21892
p-PHENYLENEDIAMINE, N,N,N',N'-TETRAMETHYL-
  effects on ESR signals from photoionized and gamma-irradiated organic glasses, 21:36047
  effects on isomerization of diaziridinones to aziridine ureas, mechanism of electron transfer in catalytic, 22:27627 (MIT-905-108, pp 63-78)
  effects on yields from γ radiolysis of aniline, 25:18450(R) (ORO-3519-8)
  effects on yields in gamma radiolysis of 1,2-dichloroethane, 21:40908
  hydrochloride, effects of coatings of, on γ radiolysis products of poly(vinyl chloride), ESR studies on, 25:34656
  photoionization of solutions of, recombination in uv, 24:31404
  photolysis in 3-methylpentane glass, effects of alkali halides on phosphorescence and radical yields from, 24:9397
  photolysis in organic glasses, ESR study of electrons from, 23:295
  radioinduced luminescence in hexene solutions at 77°K, γ, 22:25406
  radioinduced trapped electrons in, in hydrocarbon glasses at 77°K, ESR and optical studies on uv, 22:30627
  radiolysis in organic glasses, ESR study of electrons from γ, 23:295
  radiolysis in polymeric solvents at 86°K, triplets and molecular ions from electron, 25:51507 (AD-722057)
  radiolysis of carbon tetrachloride in glassy, optical absorption spectra of intermediates from γ, 23:37937
  radiolysis of, adsorbed on porous Vycor glass, γ, 24:16607
  radiolysis of, effects of solvent on absorption spectra from pulse, 22:27775
  radiolysis of, effects of solvents on ionization by pulsed-electron, 23:2329
  2-propanol—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808
  3-methylhexane—N,N,N,N-tetramethyl-p-phenylenediamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
  3-methylhexane—N,N,N,N-tetramethyl-p-phenylenediamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
  3-methylpentane—N,N,N',N'-tetramethyl-p-phenylenediamine, photolysis at -196°C, 23:24236
  3-methylpentane—N,N,N,N-tetramethyl-p-phenylenediamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
  3-methylpentane—N,N,N,N-tetramethyl-p-phenylenediamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
  acetonitrile—N,N,N',N'-tetramethyl-p-phenylenediamine, photolysis of, formation of solvated electron by, 22:51014
  benzene—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808
  cyclohexane—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808
  ethanol—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808
  methylcyclohexane—N,N,N,N-tetramethyl-p-phenylenediamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
  methylcyclohexane—N,N,N,N-tetramethyl-p-phenylenediamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
  methylpentane—tetramethyl-p-phenylenediamine, radiolyais of, formation of cation and triplet state in electron pulse, 23:19808
  N,N,N,N-tetramethyl-p-phenylenediamine—triethylamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
  N,N,N,N-tetramethyl-p-phenylenediamine—triethylamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23:45346
  tetrahydro-2-methylfuran—N,N,N,N-tetramethyl-p-phenylenediamine, photoionization of glasses of, ESR relaxation studies on electrons trapped by, 23:45346
  tetrahydro-2-methylfuran—N,N,N,N-tetramethyl-p-phenylenediamine, radiation effects on glasses of, ESR relaxation studies on electrons trapped by γ, 23;45346
m-Phenylenediurethan, Bis(2-methacryloyloxyethyl)-4-methyl-
    see Toluene-2,4-dicarbamic Acid, Bis(2-methacryloyloxyethyl) Ester
PHENYLEPHRINE
  effects on blood pressure and heart rate of γ-neutron irradiated dogs, 24:6108 (AD-682904)
  effects on diffusion of rubidium-86 from isolated ciliary processes of rabbits, 24:7726
  effects on oxygen pressure in mouse spleen, 25:29547
  effects on radiosensitivity of transplanted ascites tumor cells, 21:30846
  radioprotective effects of, effects of N-(2-chloroethyl) dibenzylamine hydrochloride on, 25:29546
  radioprotective effects of, in abdomen-irradiated mice, mechanism of, 21:22622
  radioprotective effects of, on beagle dog hearts, lethal, whole-body mixed γ and neutron, 25:29565
  radioprotective effects of, on bone marrow of mice, 22:33841
  radioprotective effects of, on mice, lethal whole-body x, 21:20274
  radioprotective effects on mice, effects of catecholamines on, 25:26804
Phenylmercuric Borate
    see Mercury, (Dihydrogen borato)phenyl-
Phenylmercuric Acetate
    see Mercury Acetates, Phenyl-
PHEOPHYTIN
  effects on leukocyte count in γ-irradiated rats, 24:29781
PHERMEX
    see Linear Accelerators
PHILIPPINE ISLANDS
  radiation monitoring equipment and methods in, 23:48072
  radiation protection in, regulations of government for, 22:4611
  radioisotope production facilities, 21:17667
  radiopreservation of food products in atomic research center in, research programs for, 24:2847
  research on neutron activation analysis in medicine in, 25:2126 (IAEA-122, pp 37-40)
  use of radioisotopes in, review of industrial, 22:33201
PHILIPPINE RESEARCH REACTOR
  fuel elements for second core loading of, compositions and design parameters of, 24:38605 (PAEC(D)-699)
  operations aspects of, review of, 25:54191 (A/CONF.49/P-787)
  personnel for operation of, University of Virginia training of, 23:4321
  radioisotope production for commercial use at, 21:17667
PHILIPPSBURG POWER REACTOR
  construction of, economic factors for, 24:40723
  design parameters of, 24:40724
  design parameters of, 25:31461
PHILLIPSITES
  argon-40/potassium-40 ratio in Pacific Ocean, 25:4164
  hydrogen isotopic ratios in, 22:27913
  oxygen isotopic ratios in, 22:27913
  thorium content of Pacific Ocean, 25:4164
  uranium content of Pacific Ocean, 25:4164
PHLEOMYCIN
  effects on chromosomes in roots of Vicia faba, combined effects of hydroxyurea on aberrant, 22:47505
  effects on chromosomes of Vicia faba, effects of hydroxyurea on mutagenic, 22:31022
  effects on colony formation and x-radiosensitivity of HeLa cells, 22:8436(R) (NYO-910-58)
  effects on Escherichia coli mutants, 23:32005
  effects on recovery of x-irradiated L cells, 24:12115
  effects on repair of x-radioinduced single strand breaks in DNA in mouse L cells, 25:35224
PHLOGOPITES
  analysis by x-ray fluorescence method, 23:13631
  radiation effects on polarization in, beta, (E/T), 25:49979
Phoebus Reactor
    see Rocket Reactors (Phoebus)
Phoenix Device
    see Magnetic Mirror Machines
PHONONS
    see also Crystal Structure
    see also Polarons
  behavior in very weak itinerant ferromagnets, isotope effect on, (T), 22:44231
  Boltzmann transport equation for gas of, derivation of hydrodynamics from, 25:59215
  cascade theory of, (T), 21:33512 (AD-634445)
  conference on, 21:35234
  cross section in thermal neutron scattering by crystal of n-, use of zero Placzek moment to calculate, 24:47324
  cross section in thermal neutron scattering by crystal of n-, use of zero Placzek moment to calculate, (T), 25:56340(T) (AERE-Trans-1137)
  density of states in neodymium trichloride, effective, 23:1559
  dispersion curves for beryllium metal, calculation of, 21:16965
  dispersion curves for hcp metals, comparison with potentials, 22:48170
  dispersion curves for, in beryllium and diamond, (T), 22:11873(R) (GA-8085)
  dispersion in aluminum, curves for, 23:42473 (AE-365)
  dispersion in deuterated naphthalene, neutron scattering studies of, 23:19728
  dispersion in liquid helium-4, calculation of spectrum of, 23:1308
  dispersion in scandium metal, determination of crystal lattice dynamics from, 23:48458 (IS-T-322)
  dispersion in single crystals, research using thermal neutrons, (E/T), 21:35398
  dispersion in solid helium at 2.9°K, from slow neutron inelastic scattering, 22:3189
  dispersion in weakly interacting Bose gas at low temperatures, microscopic analysis of, (T), 25:25004
  dispersion law for optical, in superconductors, 25:1107
  dispersion law in superconducting semiconductors, (T), 22:44051
  dispersion relation for hcp ^{4}He, (E), 22:39153 (BNL-12596)
  dispersion relations in gallium at 77°K, 23:34018
  effects on interstellar OH, radio emission from, (T), 22:21788
  effects on thermal conductivity of graphite at 10 to 80°K, 21:39675
  effects on thermal conductivity of silicon dioxide—uranium dioxide systems, 22:49832
  energy shifts in crystals, vessel for measuring pressure-induced, 21:831
  excitation and scattering mechanisms of, 21:41626
  frequencies of longitudinal optic modes in magnesia, neutron spectrometer measurements of, 21:42156 (AERE-R-5467)
  frequency distributions in crystals, measurement using cold neutron inelastic scattering, 21:44540
  frequency shifts in non-primitive lattices, (T), 23:48983 (GA-9417)
  interactions γ + N in Veneziano model, nucleon electromagnetic mass difference from forward Compton, 24:13010
  interactions in metals of, 21:41626
  interactions in solids and liquid helium, (T), 25:59204
  interactions of electrons with optical, in ionic crystal films, (T), 24:45345
  interactions of, effect on orientational state of solid molecular hydrogen of, (T), 23:18532
  interactions with electron gas, temperature dependence of collective, (T), 23:14887
  interactions with electrons in impure metals, deviations from additivity in theory of scattering, 25:30697 (NP-18822)
  interactions with electrons in metals, (T), 21:7394
  interactions with electrons in metals, calculation of coupling functions for, 25:33475
  interactions with electrons in positron annihilation in metals, (T), 24:25986
  interactions with electrons in rhenium, two-band model, 24:45343
  interactions with electrons in solids, theory of isotopic effects in, 22:24440
  interactions with electrons in superconducting semiconductors, (T), 23:14726
  interactions with electrons in transition metals, effects on paramagnetic susceptibilities, (T), 25:50022
  interactions with electrons, Boltzmann equation for, (T), 21:16793
  interactions with electrons, contribution to properties of aluminum, (T), 21:11560
  interactions with electrons, double-time Green's function calculations, 25:7523
  interactions with individual particle in many-boson system, 22:13387
  interactions with nucleons in nuclei, model for, 21:19300
  interactions with nucleons on isolated level, quadrupole, (T), 21:12078 (JINR-P4-2985)
  interactions with phonons, correlation functions and counting probabilities for, 21:17935
  interactions with positrons in metals, effects on positron annihilation, (T), 24:21564
  interactions with positrons in simple metals, calculations, 24:19738
  interactions with quasiparticles in deformed even-even nuclei, (T), 21:46822
  interactions with quasiparticles in odd-A deformed nuclei, (T), 21:34044
  interference between one- and two-phonon processes in neutron scattering, anharmonic, (T), 23:23746(R) (AECL-3257)
  kinetics of, classical and quantum, 21:41626
  lifetime in crystals, determination of, (E/T), 22:24376 (CEA-Bib-100)
  measurement in metals, three axis crystal neutron spectrometer for, 22:28161
  measurement of, focusing conditions of triple-axis neutron spectrometers for, 21:19909
  neutron inelastic scattering by, group theoretical selection rules in, 21:44170
  neutron scattering by, in crystals, dynamical theory of, 21:44168
  physics of, Cornell Univ. research on experimental, 24:13683(R) (NYO-2391-108)
  physics of, Cornell Univ. research on experimental, 25:20874(R) (NYO-2391-126)
  physics of, experimental studies of, 21:9647(R) (NYO-2391-41)
  properties of "hot" impurity-spin, inelastic coherent neutron-scattering method for study of, 25:45593

properties of, analogous to particles, 23:42582
quantum field theory formalism for, in harmonic approximation, 23:5671
radiation from thermal, use of superconductive tunneling junctions for detection of, 24:45192
relaxation processes in Moessbauer hyperfine structure, (T), 25:1336
research using pulsed neutron source technique in reciprocal geometry, 23:19117 (JINR-P14-4270)
resonant absorption in lithium-6- and cyanide-doped potassium chloride, 23:30612(R) (ORNL-4408)
scattering at low temperatures, point defects and optic mode of critical, 21:7338
scattering by defects in 4-MeV electron-irradiated silicon, (E), 21:37619
scattering by impurities in metals in temperature gradients, (T), 21:21049 (CEA-R-3096)
scattering by impurities in solids, (T), 22:1367 (NYO-3699-16)
scattering from He-3 in superfluid He-4, attenuation of first sound above 0.2°K for, (E), 22:41534
scattering in graphite, relations with thermal conductivity, 24:44786(R) (LA-4480)
scattering of, critical magnetic, 21:29361
spectra and dispersion curves in solids, 23:30612(R) (ORNL-4408)
spectra of interacting boson system, 21:35123
spectrum for light water ice at 0°C, calculations using root sampling method, (T), 23:10921
theory development for, general arbitrary temperature, 25:5483
theory of self-consistent, 21:43945(R) (COO-1569-15)
theory, dispersive anharmonicities in lattice dynamics of quantum crystals, 22:44236
vibrations in perfect and imperfect lattices, (E/T), 21:35234
x-radiation scattering by, in crystals, dynamical theory of, 21:44168

PHOSGARD C 22R
methyl methacrylate—PHOSGARD C 22R, radioinduced polymerization of, impregnated in wood, γ, 23:26277
methyl methacrylate—phosgard—wood, radioinduced polymerization of, mechanical and physical properties of products from γ, 23:48583 (ORO-638)

PHOSGENE
determination in atmosphere, method for, 22:21029 (SC-M-67-3044)
dissociation of, 23:345 (IS-1900, Paper 2)
formation of, 23:345 (IS-1900, Paper 2)
oxygen-18 exchange between nitrogen dioxide and, kinetics of, 21:8194
radiation effects on preparation of, by catalysis, 22:48876 (JAERI-1155)
reactions with niobium oxychloride in tube-flow reactor, kinetics of chlorination, 25:15561 (IS-2300, pp 7-20)
reactions with niobium oxychloride to prepare niobium pentachloride, 24:36887
reactions with niobium oxychloride, effects of temperature on, 21:40957 (IS-1600, Paper 2)
reactions with niobium oxytrichloride, effects of concentrations, temperature, and time on kinetics of vapor phase chlorination, 21:27934 (IS-T-146)
reactions with thorium dioxide, 24:38817
synthesis of, effects of heating temperature and γ-irradiation on catalytic activities of active carbon in, 22:42747
use in separation of tantalum from reaction products of tantalum chloride with calcium fluoride or calcium oxide, 22:23098 (IS-1799)

Phosphatase, Acid
see Acid Phosphatase

Phosphatase, Alkaline
see Alkaline Phosphatase

PHOSPHATE DEPOSITS
analysis for trace amounts of elements by spark source mass spectrometry, 25:10456

PHOSPHATE FERTILIZERS
effects of, or Agrofon, on growth and yield of γ irradiated Russian black bean crop in sandy and loamy soils, 21:9008
effects on growth of vegetable crops, evaluation of, 22:38287
effects on uranium content in runoff for Gulf of Mexico, 24:39086(R) (ORO-3852-3)
radiation hazards in, 22:21193
radioisotope content of, in relation to uptake by tobacco, lead-210 and polonium-210, 23:29491
transport in soils, tracer techniques to determine, 25:52017 (A/CONF.49/P-537)
uptake by rice plants, effects of lime on, 24:31768 (IAN-A-6)
uranium content of, radiometric determination of, 21:6509

Phosphate Isomerase
see Glucosephosphate Isomerase

PHOSPHATE ROCKS
see also Phosphates
analysis for rare earths by titration with EDTA, 22:33216
analysis for trace elements, cathode-region method for spectrochemical, 24:2109
analysis for uranium and vanadium, 23:15798
analysis for uranium using 2-[(5-bromo-2-pyridyl)azo]-5-(diethylamino)phenol, spectrophotometric, 25:18352
analysis for uranium using ascorbic acid supporting electrolyte, polarographic, 24:38742
analysis for uranium, luminescent method for, 23:21639
analysis of Kola, for strontium by atomic absorption spectrophotometry, 24:18891
analysis of, for europium, neodymium, and yttrium, using atomic absorption flame photometry, 21:15867
analysis of, for fluoride and fluorosilicic acid by conductometric titration using thorium nitrate, 21:2942
analysis of, for rare earths by atomic-absorption flame photometry, 22:2001
analysis of, for rare earths using EDTA, 21:15866
effects on sulfur dioxide pollution control in fluidized-bed combustion of fossil fuels, 23:26321 (ANL-7550, pp 97-9)
location in southern US, 24:7532 (WASH-1128)
processing of, economics of uranium production as by-product from, 22:27870
processing of, uranium recovery in, 22:18900
properties for use as filter in decontamination of radioactive materials, 23:344 (INR-922)
prospecting for undersea, using submersible scintillation counter, 24:48177
radium content of, radiation hazard from, 22:21193
sorptive properties of crandallite for calcium and strontium, 22:37859
thorium content in, radiation hazard from, 22:21193
uranium content of marine, total, 24:14062
uranium content of, radiation hazard from, 22:21193
uranium geochemistry in, 22:40218
uranium isotope content of sea floor, (E), 24:46350
uranium(IV) content of marine, 24:14062
uranium-234/-238 activity ratio in marine, 24:14062

PHOSPHATES
see also Acid Phosphates
see also Aluminum Phosphates
see also Ammonium Phosphates
see also Ammonium Plutonyl Phosphates
see also Ammonium Uranyl Phosphates
see also Barium Phosphates
see also Barium Titanium Phosphates
see also Borophosphates
see also Cadmium Phosphates
see also Calcium Chloride Phosphates
see also Calcium Fluoride Phosphates
see also Calcium Halide Phosphates
see also Calcium Hydroxide Phosphates
see also Calcium Phosphates
see also Calcium Uranium Phosphates
see also Cellulose Phosphates
see also Cerium Phosphates
see also Cesium Hafnium Phosphates
see also Cesium Phosphates
see also Cesium Thorium Phosphates
see also Cesium Zirconium Phosphates
see also Chromium Phosphates
see also Copper Phosphates
see also Dysprosium Phosphates
see also Erbium Phosphates
see also Ethyl Phosphates
see also Fructose Phosphates
see also Glucose Phosphates
see also Glycerophosphates
see also Hafnium Phosphates
see also Hypophosphates
see also Indium Phosphates
see also Iron Phosphates
see also Lanthanum Phosphates
see also Lead Phosphates
see also Lithium Hafnium Phosphates
see also Lithium Phosphates
see also Lithium Thorium Phosphates
see also Lithium Uranium Phosphates
see also Lithium Zirconium Phosphates
see also Magnesium Phosphates
see also Magnesium Strontium Phosphates
see also Metaphosphates
see also Methyl Phosphates
see also Plutonium Phosphates
see also Plutonyl Phosphates
see also Polyphosphates
see also Polysaccharides
see also Potassium Hafnium Phosphates
see also Potassium Phosphates
see also Potassium Thorium Phosphates
see also Potassium Zirconium Phosphates
see also Protactinium Phosphates
see also Pyrophosphates
see also Rare Earth Phosphates
see also Ribose Phosphates
see also Rubidium Hafnium Phosphates
see also Rubidium Phosphates
see also Rubidium Thorium Phosphates
see also Rubidium Zirconium Phosphates
see also Salicyl Phosphate
see also Silicon Phosphates
see also Silver Phosphates
see also Sodium Hafnium Phosphates
see also Sodium Phosphates
see also Sodium Thorium Phosphates
see also Sodium Uranium Phosphates
see also Sodium Uranyl Phosphates
see also Sodium Zirconium Phosphates
see also Strontium Phosphates
see also Thorium Phosphates
see also Tin Phosphates
see also Titanium Phosphates
see also Uranium Phosphates
see also Uranyl Phosphates
see also Zinc Phosphates
see also Zirconium Phosphates
see also Zirconyl Phosphates
analysis by electron probe method, correction factors for, 24:48035
analysis for aluminum by neutron activation and scintillation counting, 24:38774 (PRNC-135, pp 195-200)
analysis for fluoride ions by titration using thorium nitrate, 22:1973
analysis for lanthanum by neutron activation and γ spectroscopy, 25:37325
analysis for thorium, 22:10196
analysis for trace amounts of rare earths by x-ray fluorescence spectrometry, 24:43957
analysis of aqueous solutions of, for pertechnetates, spectrophotometric, 21:23845
analysis of phosphorus-32-labeled, for radiochemical impurities by paper chromatography, 21:30373
analysis of solutions of, for cerium, chromium, manganese, and vanadium by coulometric titration, 25:2081
application of phosphorus-32 labeled, to leaves and roots of clover, effects of, on dry weight, 23:38415
book: Diffusion Data, 25:47133
complexes with americium, cerium, promethium, and yttrium, properties of, 21:3057
content of blood of rats, effects of parathyroid hormone, thyrocalcitonin, and vitamin D on, 22:6200(R) (COO-1668-3)
content of buffer, effects of, on radioinduced toxicity of Endoxan for Escherichia coli and HeLa cells, 22:23473
content of Columbia River water samples during 1967, 23:33702 (BNWL-983(App.))
content of diet of chicks, effects of, on strontium-89 content of tissues in chicks, 22:36215
content of diet of rats in relation to activity of parathyroid glands, 22:6201 (CU-2530-10)
content of diet, effects of, on calcium-45 and strontium-85 metabolism in rats, 23:802
content of diet, effects of, on strontium-89 deposition in bones and eyes of young chickens, 22:28334
content of diet, effects of, on strontium-89 metabolism in chickens, 22:36215
content of soluble, in plants, colorimetric determination of, 22:22904 (PRNC-104, pp 90)
content of, in urine following radiotherapy for hyperthyroidism, 21:6674
depletion by hemodialysis in calves, effects of, 21:20097
determination by neutron activation methods, radiochemical column separation procedures in, 22:25284
determination by potentiometric titration, 25:37260(R) (UCRL-50006-71)
determination in aqueous solutions by automatic radiometric method, 22:18687 (EUR-3738)
determination in cerium phosphate, photometric, 23:2210
determination in fertilizers by automatic radiometric method, 22:18687 (EUR-3738)
determination in natural waters from uranium mining operations, method for, 25:18339 (CEA-R-3557(2))
determination in solutions by precipitation with ferric hydroxide, effects of ions on, 23:47372
determination in tropical soil samples, 21:36746(R) (NYO-2043-152)
determination in uranium ore leach solutions, colorimetric, 22:25236 (CEA-N-616, pp 20-71)
determination in water by complexing with molybdophosphoric acid and tungsten-185 and counting, 23:13648
determination in water by spectrophotometry, 24:43937 (CEA-N-1292, pp 5-23)
determination of, automation of spectrophotometric, 24:2124
determination of, fluorometric, 22:14428 (ORNL-4196, pp 33-44)
diffusion in, data tabulations on, 25:55509
distribution in northeast Pacific Ocean from Columbia River effluent, 22:14598 (RLO-1725-92)
distribution in northeast Pacific Ocean from Columbia River effluent, 22:14597 (RLO-1725-91)
distribution in northeast Pacific Ocean from Columbia River effluent, 22:14595 (RLO-1725-86)
distribution in northeast Pacific Ocean from Columbia River effluent, 22:14596 (RLO-1725-87)
distribution in northeast Pacific Ocean from Columbia River effluent, 22:14594 (RLO-1725-85)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28112 (RLO-1725-33)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28111 (RLO-1725-32)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28113 (RLO-1725-34)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28114 (RLO-1725-35)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28115 (RLO-1725-36)
distribution in northeast Pacific Ocean of, in Columbia River effluent, 21:28116 (RLO-1725-37)
distribution in sediments and soils, effects of calcium carbonate on, 24:39038 (ORNL-4446, pp 1-8)
effects as impurity on density of sintered plutonium dioxide—uranium dioxide powders, 23:51089(R) (NUMEC-3524-50)
effects of dietary additives of colloidal, on uptake of cesium-137 and strontium-90 by man, 24:9800 (CONF-690303-, pp 201-16)
effects of dietary, on metabolism of calcium-45, calcium-47, and strontium-85 in parathyroidectomized and parathormone-treated rats, 25:37725
effects of inorganic, on aerobic metabolic processes in nuclei of irradiated cells, 21:18149
effects of ionic, on anodic dissolution of polycrystalline beryllium in aqueous solutions, 23:22470
effects of, and phosphorus-32 on growth of cotton plants, 21:16526
effects of, on determination of benzothiazolethiol, 21:1265
effects of, on determination of rare earths using thymolphthalexon, 21:12339
effects of, on mitosis in irradiated cultured rat thymocytes, 21:11092
effects of, on phosphorus uptake by cotton leaves in presence of phosphorus-32, 21:11123
effects of, on spectrofluorimetric determination of trace amounts of uranium, 21:10244 (AECL-2647)
effects on biological half-life of phosphorus-32 in mosquitoes following inclusion in diet, 24:44408
effects on colorimetric determination of uranium, 22:33262
effects on colorimetric determination of zirconium in alloys using gallocyanine, 22:33287
effects on crystallite growth of beryllium oxide powders during sintering, 22:49809

effects on defect formation in gamma-irradiated calcium molybdates and calcium tungstates, ESR studies of, 22:41664
effects on determination of fluorides by thermometric titration, 22:4039
effects on determination of polonium-210 in rocks and uranium ores by spontaneous deposition on silver, 23:89
effects on diffusion of sodium in silicon dioxide films, 21:35900
effects on flame photometric determination of lanthanum, 23:40563
effects on fluid exudation and pigment oxidation in fresh beef, 24:32284(R) (COO-1689-5)
effects on γ-irradiated rat thymocyte pycnosis, and free DNA and deoxyribonucleoprotein content, 21:20063
effects on γ-radiolysis of DNA solutions, 24:585 (N-69-31619)
effects on hydration of acetaldehyde at 0.0°C, 21:42935
effects on mercury determination, 25:31805
effects on metabolism of cerium-144, plutonium-239, and yttrium-91 in rats, combined effects of epinephrine, diuretics, and EDTA on, 22:12787
effects on performance of vermiculite for decontamination of medium-level liquid waste, 24:2259 (AERE-R-6153)
effects on phosphorus-32 uptake by nucleotides of calf thymus nuclei, 23:43675
effects on precipitation of molybdenum and tungsten with zirconium hydroxide, 22:8063
effects on production of uracil from dihydrouracil at 77°K, γ radiation effects on, 23:20097
effects on properties of anodic films of zirconium oxide, ir-transmission study of, 21:22916
effects on radiation effects on potassium chromate crystals, 22:33396
effects on radioisotope metabolism in rats, effects of parathyroid gland on dietary, 24:23088
effects on radiosensitivity of metabolism in rat thymocytes, x, 21:32793
effects on recovery of γ-irradiated Escherichia coli, 22:26012
effects on reduction of heptavalent neptunium in acid solutions, 24:38848
effects on separation of cerium-141 and strontium-89 from waste solutions by contact precipitation method using calcium carbonate, 24:14031
effects on separation of thorium(IV) from sulfuric acid solutions by extraction using N-phenylbenzylamine in chloroform, 25:29184
effects on sorption and excretion of strontium-85 following oral administration, 21:45576
effects on sorption of calcium-47 and strontium-85 by intestine of rats, dietary, 24:2564
effects on spectrofluorimetric determination of trace amounts of zirconium, 24:29189
effects on spectrophosphorimetric determination of niobium, 24:29185
effects on spectrophotometric determination of americium, 23:45189
effects on spectrophotometric determination of beryllium and thorium using Solochrome azurine B.S, 24:41201
effects on spectrophotometric determination of scandium using Chrome Azurol S, 21:27904
effects on spectrophotometric determination of scandium using benzyldimethyltetradecylammonium chloride and Chrome Azurol S, 23:9315
effects on spectrophotometric determination of sulfate in water by formation of ferric sulfate complex, 23:34981
effects on spectrophotometric determination of zirconium using bromopyrogallol red, 23:49713
effects on spray solidification of radioactive waste, 23:35255(R) (BNWL-1074)
effects on strontium-89 accumulation in plants, 24:48371
effects on strontium-90 uptake by plants, 24:41739
effects on vanadium-48 exchange between trivalent and tetravalent vanadium in aqueous acid solutions, catalytic, 23:26219 (LA-4147)
effects on volatility of carrier-free cesium-137 in ashing of biological materials, 23:28813
effects on x-radiosensitivity of nuclei in thymocytes of rats, 22:21437
effects on yttrium-91 metabolism in mice, 22:43210
effects on zinc-65 distribution in clover and flax, 23:20085
efficiency for rice fertilization, phosphorus-32 tracer study, 24:41721 (STI/DOC-10/108)
exchange rate of, in grasses and pines, 21:22369
excretion by nephrons of irradiated kidneys in dogs, effects of uremic condition on, 25:10963
frequency of end groups of 5'-, in γ-irradiated DNA, determination of, 24:50716
labeling of tripoly complex of, with metastable technetium-99, 25:37709
leach rates of glasses of, in water storage, 25:39559(R) (BNWL-1578)
leach tests on durability of glasses of, for disposal of radioactive waste, 22:18906
metabolism by rats, effects of parathyroid hormone, thyrocalcitonin, and vitamin D on, 23:4493(R) (COO-1668-8)
metabolism in calves, 21:20097
metabolism in strawberry plants, tracer study of, 21:41341
metabolism of, during photosynthesis, 21:3395 (UCRL-16806, pp 25-30)
metabolism of, in dogs during acute radiation syndrome, 21:10740
microstructure of glasses of, containing radioactive waste, 23:11596(R) (BNWL-923)
mineralization of organic, in Costa Rican soils, 23:48008(R) (NYO-2043-194)
occurrence of, in wheat plants growing from fast neutron-irradiated seed, effects of soil fertility at time of exposure on, 21:4882
oxygen-18 exchange between, and water in hydrolysis of urea by urease, 21:14189
phosphorus-32 concentration in neutron-irradiated, by Szilard—Chalmers effect, 22:16591
preparation of, using displacement, exchange, and redox reactions, 21:1436
preparation, properties, and structure of, conference on, 23:144
production of super-, use of radioactive tracers for measurement of material flow and mixing conditions during, 22:14706
production of, uranium recovery as by-product in, 25:23683
properties for solidification of radioactive wastes in, effects of component concentration on, 22:23244 (BNWL-544)
properties of Kephos and Meta Bond, for corrosion protection of concrete prestressing tendons, 23:52268 (GA-9356)
radiation effects on absorption of, by rat liver mitochondria, γ, 21:10755
radiation effects on content of inorganic, of mice muscles, effects of dose on whole-body x, 24:44426
radiation effects on content of, in histones from thymic nuclei of rats, 21:18150
radiation effects on content of, in liver of mice, effects of diet on, 22:47580
radiation effects on glasses of, 22:35837
radiation effects on glasses of, ESR spectra from γ, 22:4220
radiation effects on incorporation of, by DNA of Chlamydomonas, combined effects of actinomycin D on, 21:13072 (COO-1117-10)
radiation effects on metabolism of, by tomatoes, x, 22:2483
radiation effects on metabolism of, in tomato plants, x, 21:16529
radiation effects on metabolism of, in wheat seedlings, γ, 25:13597 (NP-18606)
radiation effects on metabolism of, in yeast, phosphorus-32 β, 22:28354
radiation effects on oxidation states in, gradient-elution anion-exchange chromatographic studies of thermal-neutron, 21:38958 (COO-1618-1)
radiation effects on silver-activated glasses of, optical and ESR studies of x, 22:106
radiation effects on synthesis of, in cotton plants of different radiosensitivities, γ, 21:9015
radiation effects on uptake of phosphorus-32-labeled, by cultured guinea-pig skin, microwave, 24:27545
radiation effects on uptake of phosphorus-32-labeled, by DNA in cultivated mammalian cells, x, 21:28344 (NP-16452)
radiation effects on uptake of, by embryos of barley, effects of water content on γ and x,, 22:6723
radiation effects on uptake of, by skin of guinea pigs in vitro, tracer study of microwave, 23:2941
radiation effects on urinary excretion in rats, x, 21:24356
radiation effects on urinary, in rats, gamma, 21:6537
radiation effects on, carrier effects on behavior of recoil phosphorus-32 from, 25:2298
radiation effects on, ESR studies of unstable intermediates in, 22:25405
radiation effects on, identification of complex phosphates formed by thermal-neutron, 21:38959 (COO-1618-2)
radiation effects on, paper chromatographic separation of recoil products from thermal-neutron, 25:21074
radiation effects on, paper electrophoresis separation of recoil products from neutron, 25:21073
radiation monitoring of raw, on vessels in Polish seaports, β, 24:6040
radioactive waste fixation in glass of, Purex-type, 23:4738
radioactive waste fixation in glasses of, 23:2367(R) (BNWL-889)
radioinduced color centers in glassy, mechanism of, 22:30606
radioinduced formation of radicals of, in ice matrices, electron transfer in, 22:2150
radioinduced oxidation of manganese(II) ions in glass, temperature dependence of γ, 25:39547
radioinduced photoluminescent centers in silver-activated glasses of, formation and stability of gamma, (E), 22:7360
radioinduced release of inorganic, from solutions of deoxynucleotides, comparison of protective effects of sulphydryl compounds against γ, 25:16216 (UCLA-12-799)
radioinduced release of inorganic, from yeast, γ, 21:20442
radioisotope-labeled, for measuring lipid metabolism in normal and perfused lungs, 23:41258(R) (NYO-2265-15(Pt.1))
radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
radiolysis of mono-, di-, and tri-, in aqueous solutions, effects of nitrous oxide and oxygen on electron pulse, 24:41360
ratio of inorganic to organic, in leaves of wheat seedlings, effects of rust infection on, 21:45546
reactions with thorium nitrates, 23:9396
role in radiostrontium sorption in duodenum of rats, 24:36687
separation from bone ash by electrodialysis, 22:14430 (ORNL-4196, pp 55-9)
separation from dehafniated hydrated zirconia using ethylamine as alkaline hydrolysis agent, 23:24297
separation from thorium, 23:381
separation from water by precipitation using trivalent rare earth ions, 25:5 (CONF-700403-(Vol.2), pp 774-87)
separation of cerium from nitrate-containing solutions of, by solvent extraction using ethylenebis[dioctylphosphine oxide], 22:10331
separation of cesium from, using phosphotungstate, pilot plant for, 21:40955 (EUR-3608.f)
separation of condensed, from radioactive waste, 24:264 (KFK-917)
separation of condensed, from radioactive waste, precipitation methods for, 24:20854(T) (ORNL-tr-2292)
separation of labeled, from sulfate ions by coprecipitation with iron hydroxide, 22:45171
separation of uranium from, by ion exchange column chromatography using Alamine 336, 24:38710 (IS-T-385)
separation of, paper chromatographic, 25:10687
sodium self-diffusion coefficients in glasses of, 25:41810
sorption by crystalline cerium oxides, thorium oxides, or zirconium oxides, 22:47122
sorption by gamma- and neutron-irradiated aluminum oxide surfaces, 23:41754
sorption by titanium oxide, mechanism of, 24:2266(R) (HMI-B-84)
sorption of chromium-51-labeled, use of arabic gum and gelatin colloids for removal following, 23:50309
sorption on crystalline thorium dioxide or zirconium oxide, kinetic study of, 23:35120
sorptive properties of resins of, for uranium, 23:21784
sorptive properties of resins of, for uranium, 23:21785
spectra in γ-irradiated calcium tungstate, ESR, 24:38933
surface tension of molten, 24:22621 (NSRDS-NBS-28)
uptake and distribution in plants, 21:20019 (ARCRL-16, pp 27-69)
uptake by Ehrlich ascites tumors in mice, tracer study using iodine-131 and whole-body autoradiography for, 25:10921
uptake by plants from soils, 21:21840 (STI/DOC-10/65)
uptake from tropical soils by plants, tracer study of, 21:36746(R) (NYO-2043-152)
uptake in diatom cultures, use of phosphorus-33 autoradiography for studies of, 25:26596
uranium content of defluorinated, used as animal feed, hazards to man from, 21:6509
uranium content of raw, on vessels in Polish seaports, effects of, on contamination of local environment, 24:6040
use in determination of lanthanum by flame photometric titration, 22:48836
use in water decontamination by precipitation, 21:180
use of glasses of, for photoluminescent dosimetry of x and gamma radiation simultaneous with neutron activation dosimetry, 22:14859
use of phosphorus-32-labeled, for therapy, review on, 21:45770
use of thorium- or uranium-doped glassy, for neutron dosimetry by registration of fission-fragment tracks, 22:23336
uses of, for precipitation of radioisotopes in waste water, 21:8405
yields of labeled, in neutron radiolysis of carbon tetrachloride in presence of phosphorus-32, 21:8334
yields of PO_4^{4-} from photolysis and radiolysis of phenacite crystals, 24:41352

PHOSPHATIDES
  see also Lecithins
  see also Phosphatidylinositols
  see also Plasmalogens
analysis of phosphorus-32-labeled, computer program for, 21:45536
content of lungs of rabbits, effects of plutonium on, 23:4869
determination in coleoptile tissues of oats, 22:19263
effects on blood coagulation in Thorotrast-treated rabbits, 21:22349
effects on free radical-induced hemolysis in irradiated animal tissues, 22:28291
extraction from tissues of irradiated rabbits, effects of, on growth of Ehrlich tumor cells, 23:16240
iodine binding by, in rats, tracer studies, 23:9843 (UCLA-12-686, pp 1-20)
losses of tritium-labeled, from guinea pig lung tissue during fixation for electron microscopy, 21:22290
metabolism in Saccharomyces carlsbergenesis, effects of fatty acid fraction from liver of whole-body x-irradiated rabbits on, 21:22254
metabolism of, in mouse spleen, strontium-90 effects on, 21:13020
phosphorus uptake by, in rat brain, tracer study of, 21:10774
phosphorus-32 uptake by, in oats, effects of indoleacetic acid on, 22:19263
phosphorus-32 uptake by, in slices of guinea pig brains, effects of dopamine, gamma-aminobutyric acid, or 5-hydroxytryptamine on, 24:29702
preparation of labeled, review of methods for, 22:40570
protective effects of, against hemolysis of erythrocytes induced by radiotoxins in vitro, 23:10027
radiation effects on content of, in brain, liver, and muscles of guinea pigs, latent, 22:51351
radiation effects on content of, in erythrocyte stroma in rabbits, x, 22:40824(T) (JPRS-44070, pp 19-23)
radiation effects on content of, in fetal and maternal rat livers, x, 23:33875
radiation effects on content of, in fetuses and pregnant rats, acute x, 23:4884
radiation effects on content of, in liver of newborn rats, x, 22:10699
radiation effects on content of, in Natto, gamma, 21:1857
radiation effects on content of, in rats, 21:28351
radiation effects on elastic conductivity of membranes containing, effects of dose on x, 22:45413
radiation effects on metabolism of, in tissues of guinea pigs, combined effects of choline on x, 23:20358
radiation effects on metabolism of, tracer study of x, 21:45533
radiation effects on structure of, in organs of rabbits, x, 22:16992
radiation effects on synthesis of, in rat bone marrow and liver, γ, 21:26612
radiation effects on, in human platelets, x, 21:22235 (EUR-2526.f)
radiation effects on, in rat plasma, effects of AET on whole-body γ, 21:20044

  radiation effects on, in rat tissues, effects of AET on whole-body γ, 21:20045
  radiation effects on, of human plasma, x, 22:23456
  radioprotective effects of essential, on erythrocytes of rabbits, γ, 21:45754
  tritium uptake by fatty acid component of, 21:6446
  use as radioprotective agents, measurement of efficiency of, using radiomimetic model, 21:22635
  use of phosphorus-32 labeled ethiodol-lecithin, for therapy of lymphoma of man, 22:8564
PHOSPHATIDYLETHANOLAMINES
  radiation effects on content of, in plasma of rats, effects of AET on whole-body γ, 21:20044
  radiation effects on content of, in tissues of rats, effects of AET on whole-body γ, 21:20045
PHOSPHATIDYLGLYCEROLS
  radiation effects on accumulation of ornithinyl ester of, in Mycobacterium 607, uv, 24:23402
PHOSPHATIDYLINOSITOLS
  synthesis of, use of tritium and radioautography in studies on effects of acetylcholine and pancreozymin on, 21:26353
Phosphazine
    see Phosphinic Amide, P,P-Bis(1-aziridinyl)-N-2-pyrimidinyl-
PHOSPHENES
    (A luminous impression on the retina caused by excitation other than light.)
  radiation effects on rabbit retinal, mechanism of γ, 21:22688
  radiation effects on, of frogs, effects of monochromatic light on x, 22:43252
  radioinduced, in human eyes, fast neutron, positive pion, and x, 24:50710 (UCRL-19868)
  radioinduced, in human eyes, γ, 22:28693
  radioinduced, in humans, medical uses and review of phenomenon of x, 22:28580
PHOSPHIDES
    see also Aluminum Phosphides
    see also Boron Phosphides
    see also Cerium Phosphides
    see also Chromium Phosphides
    see also Dysprosium Phosphides
    see also Erbium Phosphides
    see also Europium Phosphides
    see also Gadolinium Phosphides
    see also Gallium Phosphides
    see also Hafnium Phosphides
    see also Holmium Phosphides
    see also Indium Phosphides
    see also Iron Phosphides
    see also Lanthanum Phosphides
    see also Magnesium Phosphides
    see also Manganese Phosphides
    see also Molybdenum Phosphides
    see also Neodymium Phosphides
    see also Nickel Phosphides
    see also Niobium Phosphides
    see also Platinum Phosphides
    see also Plutonium Phosphides
    see also Praseodymium Phosphides
    see also Rare Earth Phosphides
    see also Silicon Phosphides
    see also Tantalum Phosphides
    see also Terbium Phosphides
    see also Thorium Phosphides
    see also Thulium Phosphides
    see also Titanium Phosphides
    see also Tungsten Phosphides
    see also Uranium Phosphides
    see also Vanadium Phosphides
    see also Ytterbium Phosphides
    see also Zinc Phosphides
    see also Zinc Tin Phosphides
    see also Zirconium Phosphides
  analysis for phosphorus in presence of uranium, 22:37639(T) (ANL-Trans-610, pp 1-56)
  analysis of inclusions of, for gold by neutron activation methods, 22:18718
  book: Engineering Properties of Selected Ceramic Materials, 21:34942
  determination of trace amounts of, in biological materials by neutron activation, 24:25018
  Knight shift and spin-lattice relaxation measurements in, 25:39374 (IS-T-433)
  preparation and crystal structure of refractory, review on, 24:4268
  production of spherical particles of, method for, 24:1073(P)
PHOSPHINE
  effects of alkyl-substituted, on electron-induced copolymerization of monomeric unsaturated compounds and unsaturated polyesters, 25:41847(P)
  effects on yields from neutron-irradiation of silane, 23:2356
  electric field gradient for deuteron sites of deuterated, one-center expansion wave functions in calculation of, 22:12279
  He—PH_3, effects of ions of, on electric properties of natural and doped silicon semiconductors, 23:6334 (RT/EL-(67)15, pp 5-50)
  photolysis of, review on, 22:25421
  radiation effects on gaseous, reactions of recoil silicon-31 from fast neutron, 23:4685
  radiation effects on, reactions of recoil silicon-31 in neutron, 23:24244
  radioinduced production of free radicals in, dispersed in rare gases at low temperatures, ESR studies on γ, 23:33236
  radiolysis of, effects of dose and pressure on γ, 24:29318
  radiolysis of, γ, 24:2255
  reactions of substituted, with alkali metals, 22:22901(R) (ORO-2733-13)
  reactions with methyl iodide at 20°C, 21:40540(R) (BMI-X-10202)
  reactions with recoil silicon-31 atoms, 25:2299
  reactions with recoil silicon-31 atoms, 24:48107(R) (COO-1713-20)
  reactions with uranium, 21:20557
  spectra of, effects of deuterium on submillimeter-wave, 24:9275
  thermodynamic properties of liquid, significant structure theory of, 22:4155
  alkanes—PH_3, reactions with recoil silicon-31 atoms, 24:48107(R) (COO-1713-20)
  butadiene—PH_3, radiolysis of, yields of silicon-31-labeled products in fast neutron, 22:48874(R) (COO-1713-5)
  ethylene—PH_3, radiolysis of, yields of silicon-31-labeled products in fast neutron, 22:48874(R) (COO-1713-5)
  ethylene—phosphine, radiation effects on, reactions of recoil silicon-31 in neutron, 23:24244
  iodomethane—PH_3, radiolysis of vapor-phase, yields of methane and hydrogen from γ, 25:8303
  iodomethane—PH_3, radiolysis of, γ, 24:2255
  NH_3—PH_3, radiolysis of, radical scavenging reactions in γ, 25:8299
  NH_3—PH_3, radiolysis of, yields from γ, 24:2255
  PH_3—Si_2H_6, radiation effects on, distribution of silicon recoil atoms in products from fast-neutron, 25:188 (COO-1713-16)
  PH_3—Si_2H_6, radiation effects on, reactions of silicon-31 recoils from fast neutron, 25:2299
  PH_3—SiH_4, radiation effects on mixtures of, reactions of recoil silicon-31 from fast neutron, 23:4685
  PH_3—SiH_4, radiation effects on, distribution of silicon recoil atoms in products from fast-neutron, 25:188 (COO-1713-16)
  PH_3—SiH_4, radiolysis of, yields of silicon-31-labeled products in fast neutron, 22:48874(R) (COO-1713-5)
  PH_3—SiH_4—Si_2H_6, radiation effects on, distribution of silicon recoil atoms in products from fast-neutron, 25:188 (COO-1713-16)
  phosphine—silane, radiation effects on, reactions of recoil silicon-31 in neutron, 23:24244
Phosphine, Dichloro-
    see Phosphonous Dichloride
PHOSPHINE, DIMETHYLPHENYL-
  complexes with palladium chlorides, crystal structure of, 23:213 (IS-1900, Paper 3)
  reactions with methyl p-toluenesulfonate, secondary deuterium isotope effects in, 22:8080
  reactions with methyl tosylate, effects of deuterium on, 22:4158
  spectra of carbon-13 and phosphorus-31 in, spin-spin coupling constants from, 21:19715
PHOSPHINE, ETHYLENEBIS[DIPHENYL-
  complexes with bromine or chlorine and technetium, preparation of, 24:25031
  complexes with uranium chlorides, preparation and physical properties of, 25:6327
  complexes with uranium tetrachloride, preparation and characteristics of, 23:6111
  complexes with uranium, preparation and characterization of, 21:34263
PHOSPHINE IMIDE, TETRAPHENYL-
  spectra of, effects of nitrogen-15 on ir, 21:42927
PHOSPHINE OXIDE
  complexes of, with niobium, protactinium, tantalum, and uranium chlorides, preparation of, 21:8304
  complexes with americium and neptunium bromides, preparation of, 22:37722
  deuterium—hydrogen exchange in asymmetric secondary, 22:25368
  organic compounds of, solvent properties of, for europium in combination with 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 21:40772 (IS-1600, Paper 3)
  preparation of asymmetric secondary, 22:25368
  properties of substituted, for separation of plutonium and uranium from nitric acid solutions, 25:51556 (A/CONF.49/P-443)
  racemization in asymmetric secondary, 22:25368
  reactions with uranium tetrachloride or uranyl chloride, properties of compounds from, 22:40063
  solvent properties for actinides and lanthanides, 21:34323
  solvent properties for uranium, 23:38040
  solvent properties of derivatives of, for rare earths and strontium in fission product solutions, 21:24061 (EUR-3277.f)
  solvent properties of substituted, for uranium, 24:31452
  solvent properties of trialkyl derivatives, for rare earths and yttrium, 22:18876
  use in chromatographic separation of niboium and zirconium, 22:146
PHOSPHINE OXIDE, BENZYLPHENYL-
  deuterium exchange between methanol and, 22:33327
PHOSPHINE OXIDE, DIOCTYLVINYL-
  radioinduced polymerization of, γ, 24:38919
PHOSPHINE OXIDE, ETHYLENEBIS[DIHEXYL-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  ethylenebis[dihexylphosphine oxide]—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for europium, 22:6368 (IS-T-197)
PHOSPHINE OXIDE, ETHYLENE BIS[DIOCTYL-
  effects on solvation of uranyl nitrates, 22:16545
  solvent properties for cerium in nitrate and nitrate—phosphate solutions, 22:10331
PHOSPHINE OXIDE, ETHYLENEBIS[DIPHENYL-
  complexes with uranyl acetates, bromides, chlorides, and nitrates, properties and spectra of, 21:38937
PHOSPHINE OXIDE, METHYLENEBIS[BIS(2-ETHYLBUTYL)-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
PHOSPHINE OXIDE, METHYLENEBIS[BIS(3,3-DIMETHYLBUTYL)-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
PHOSPHINE OXIDE, METHYLENEBIS[BIS(2-ETHYLHEXYL)-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
  effects of paper impregnated with, on separation of rare earth compounds, 21:150
  solvent properties for dysprosium, holmium, and terbium nitrates, ir spectral studies on, 22:6402
  use for separating rare earth nitrates by extraction chromatography, 22:16665
PHOSPHINE OXIDE, METHYLENEBIS[DIALKYL-
  solvent properties for rare earths in mineral acids, 24:16485 (IS-2100, Sect. C)
  solvent properties of, 21:40772 (IS-1600, Paper 3)
PHOSPHINE OXIDE, METHYLENEBIS(DIHEXYL-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  complexes with americium nitrate, stability constants for, 24:293
  complexes with europium and TTA in chloride solutions, stability constants for, 23:11613
  complexes with neptunium and plutonium, kinetic studies of, 22:27893
  complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
  solvent properties for erbium nitrate, 22:6402
  solvent properties for niobium, tantalum, and zirconium in chloride, nitrate, and sulfate solutions, 22:6403
  solvent properties for nitric and perchloric acids and water, ir spectral studies on, 22:6402
  use for separating rare earth nitrates by extraction chromatography, 22:16665
  methylenebis(dihexylphosphine oxide)—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for europium in chloride solutions, synergic effects in, 23:11613
  methylenebis[dihexylphosphine oxide]—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for europium, 22:6368 (IS-T-197)
PHOSPHINE OXIDE, PENTAMETHYLENEBIS[DIHEXYL-
  complexes with americium, californium, or curium nitrate, stability constants for, 24:293
PHOSPHINE OXIDE, TETRAMETHYLENEBIS[DIHEXYL-
  chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
  complexes with americium nitrate, stability constants for, 24:293
  complexes with europium and TTA in chloride solutions, stability constants for, 23:11613
  complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
  tetramethylenebis(dihexylphosphine oxide)—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for europium in chloride solutions, synergic effects in, 23:11613
  tetramethylenebis[dihexylphosphine oxide]—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for europium, 22:6368 (IS-T-197)
PHOSPHINE OXIDE, TETRAMETHYLENEBIS[DIPHENYL-
  complexes with uranyl acetates, bromides, chlorides, and nitrates, properties and spectra of, 21:38937
PHOSPHINE OXIDE, TRIALKYL-
  complexes with actinide halides, structure of, NMR studies on, 24:5648(R) (MLM-1606)
  complexes with uranium, ir spectral studies on, 21:45221
  solvent properties for dysprosium, gallium, and holmium in nitric acid solutions, 23:6210
  solvent properties of, ir spectral studies on effects of composition and structure on, 21:45221
PHOSPHINE OXIDE, TRIBUTYL-
  complexes with tetradecylammonium bromide complexes with uranyl bromides, spectral studies on, 22:27681
  complexes with thorium tetrachloride, structure of, NMR study of, 23:43291(R) (MLM-1603)
  complexes with uranium sulfates, composition of, 25:37344
  complexes with uranyl fluorides in benzene solution, spectral studies on structure of, 22:16544
  complexes with uranyl perrhenate, preparation and properties of, 22:16488
  neutron reactions with, recoil chemistry of phosphorus-32 produced in, 23:49835
  properties for use as solvent extractant, donor, 24:16645
  radiation effects on retention of recoil phosphorus-32 in neutron-irradiated, 23:49835
  reactions with nitric acid and uranyl nitrate, equilibrium constants for, 23:13737
  reactions with uranium tetrachloride, effects of media on, 22:33323
  solvent properties for actinides and lanthanides, 23:31409
  solvent properties for actinides in hydrochloric and nitric acid solutions, 21:28050 (JAERI-1132)
  solvent properties for cerium, 22:42817 (UJV-1924)
  solvent properties for lanthanum nitrate, 21:8411
  solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
  solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
  solvent properties for nitric acid in organic solvents, 21:3148
  solvent properties for perrhenate, pertechnetate, and uranyl ions, effects of basicity on, 22:6413
  solvent properties for ruthenium, 22:42816 (UJV-1921)
  solvent properties for strontium, 23:7600 (UJV-1927)
  solvent properties for uranium in hydrochloric acid solutions, spectral studies on, 22:6406
  solvent properties for uranyl nitrate, 21:8410
  solvent properties for yttrium, 23:7599 (UJV-1926)
  D_2O—tributylphosphine oxide, melting diagram for, 22:6407

H_2O—tributylphosphine oxide, melting diagram for, 22:6407
H_2O—tributylphosphine oxide, phase studies on mutual solubility in, as function of temperature, 22:6407
HNO_3—H_2O—tributylphosphine oxide, distribution of, between water and various inert diluents, 21:3148
PHOSPHINE OXIDE, TRICYCLOHEXYL-
solvent properties for rare earths in nitric acid, 21:28061
PHOSPHINE OXIDE, TRIETHOXY-
complexes with uranyl nitrate, spectra of, ir and Raman, 25:2212
complexes with uranyl nitrates, spectra of, ir and Raman, 23:21684
PHOSPHINE OXIDE, TRIETHYL-
complexes with uranium tetrabromide or uranium tetrachloride, preparation of, 23:49810
complexes with uranium tetrabromide or uranium tetrachloride, electronic spectra and magnetic susceptibilities of, 23:49810
PHOSPHINE OXIDE, TRIHEXYL-
complexes with plutonium(IV), formation of, in extraction systems, 21:1441
complexes with uranyl nitrate, hydration of, 21:22023
hydration in solvent extraction of uranium from aqueous solutions, 21:22023
solvent properties for cerium, 22:42817 (UJV-1924)
solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
solvent properties for rare earths in nitric acid, 21:28061
solvent properties for ruthenium, 22:42816 (UJV-1921)
solvent properties for strontium, 23:7600 (UJV-1927)
solvent properties for yttrium, 23:7599 (UJV-1926)
PHOSPHINE OXIDE, TRIMETHYLENEBIS[DIHEXYL-
chromatographic behavior of, gas and fragmentation-gas, 22:6289 (IS-T-184)
complexes with europium and TTA in chloride solutions, stability constants for, 23:11613
complexes with uranyl nitrate, gas chromatographic behavior of, 22:6289 (IS-T-184)
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trimethylenebis[dihexylphosphine oxide], solvent properties for europium, 22:6368 (IS-T-197)
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trimethylenebis(dihexylphosphine oxide), solvent properties for europium in chloride solutions, synergic effects in, 23:11613
PHOSPHINE OXIDE, TRIOCTYL-
complexes of, distribution of, between sulfuric acid and hexane or carbon tetrachloride, 22:47216
complexes with beryllium, ir spectra of, 22:45040
complexes with erbium and holmium in presence of perchlorate ion and TTA, spectrophotometric studies on, 23:35283
complexes with europium and TTA in chloride solutions, stability constants for, 23:11613
complexes with TTA and uranium, NMR spectral studies on structure of, 24:2183
complexes with uranium(VI) and dibutyl phosphate in hexane and carbon tetrachloride, formation of, 22:47217
dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
effects on extraction of copper-64 or zinc-65 by thenoyltrifluoroacetone, synergistic, 23:26342
effects on extraction of europium(III)—TTA chelate into carbon tetrachloride and chloroform, 21:32260
effects on separation of trace amounts of scandium from rare earths by ion exchange, 23:4721
effects on solvent extraction of lutetium using diketones, 24:29369
effects on solvent extraction of rare earths from aqueous solutions using diketones, synergistic, 24:29367
effects on solvent extraction of rare earths using 4,4,4-trifluoro-1-phenyl-1,3-butanedione, 22:8178
effects on solvent extraction of strontium using D2EHPA, synergistic, 22:42807 (BNWL-759)
effects on solvent extraction of uranium from sulfuric acid solutions by monobutyl phosphate, synergic, 21:28067
effects on solvent properties of 2,4-pentanedione for scandium, 22:51068
effects on solvent properties of 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one for actinides and europium, 24:27220
effects on solvent properties of TTA for iron, 23:46942(R) (NYO-3417-11)
effects on solvent properties of TTA for uranyl ions, 25:6406
effects on synergism in solvent extraction of cesium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6394
properties for use as solvent extractant, donor, 24:16645
refractive indexes of solutions of, in octane, 21:30399 (ORNL-TM-1893)
separation from aqueous waste concentrate solutions by sorption on bed of activated carbon, 23:40794 (BNWL-1109)
solvent properties for actinides and lanthanides, 23:31409
solvent properties for actinides in hydrochloric and nitric acid solutions, 21:28050 (JAERI-1132)
solvent properties for americium, 21:34279
solvent properties for americium and lanthanides, 22:37640(T) (ANL-Trans-628, pp 2-50)
solvent properties for chloroauric, perchloric, and perrhenic acids, 25:6290 (UCRL-19530, pp 270-308)
solvent properties for hydrobromic and hydrochloric acids, effects of 1,2-dichloroethane and nitrobenzene on, 23:49772 (UCRL-18667, pp 277-312)
solvent properties for nitric acid, uranyl nitrate, and water, NMR studies on, 23:45368 (KFK-958)
solvent properties for perrhenic acid, effects of 1,2-dichloroethane and nitrobenzene on, 23:49772 (UCRL-18667, pp 277-312)
solvent properties for plutonium, 23:47374
solvent properties for plutonium in nitric acid solutions of bismuth, 23:11599 (HW-83226)
solvent properties for rare earths, 25:21104
solvent properties for rare earths in nitric acid, 21:28061
solvent properties for ruthenium in aqueous hydrobromic and hydrochloric acid solutions, 23:49905
solvent properties for scandium, synergistic effect of β-diketones on, 23:26350
solvent properties for thorium and cerium, 22:27873
solvent properties for thorium and uranium, 24:13744
solvent properties for thorium and uranium, 21:12380(R) (MLM-1342)
solvent properties for thorium in cation exchange separation from rare earths, 23:398
solvent properties for thorium in hydrochloric acid solutions, 24:299
solvent properties for thorium(IV) from nitric acid solutions, effects of benzoic acid on, 25:31770
solvent properties for trivalent actinides and lanthanides, comparison of, with trioctylarsine oxide, 21:34251 (JUL-434-PC)
solvent properties for uranium, 21:10414 (INR-754/XIII/C)
solvent properties for uranium, 25:34541
solvent properties for uranium-234 in solution, 25:216(R) (MLM-1726)
solvent properties for uranyl compounds, NMR studies of effects of anions on, 25:15739
solvent properties for water in carbon tetrachloride, ir spectral studies on, 22:6402
solvent properties for zirconium in iron and steel, 25:28
solvent properties for zirconium-89 in neutron-irradiated yttrium oxide, 25:184
use in reversed-phase chromatographic separation of elements, 21:17700 (CISE-103)
use of, impregnated on silica gel in thin-layer chromatographic separation of elements, 21:152
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctylphosphine oxide, solvent properties for europium, 22:6368 (IS-T-197)
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctylphosphine oxide, solvent properties for thorium, effects of nitric acid on, 25:48566 (AECD/CH-13)
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctylphosphine oxide, solvent properties for europium in chloride solutions, synergic effects in, 23:11613
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctylphosphine oxide, solvent properties for cerium in fission products solutions, 25:34522
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctylphosphine oxide, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)
alkylamines—trioctylphosphine oxide, solvent properties for thorium, effects of nitric acid on, 25:48566 (AECD/CH-13)
bis(2-ethyhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 25:2319 (ORNL-4572, pp 181-95)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 23:21780 (ORNL-TM-2522)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium in phosphoric acid solutions, 23:361 (ORNL-4272, pp 174-86)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 24:270 (ORNL-4422, pp 252-71)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
carbon tetrachloride—dibutyl phosphate—H_2SO_4—trioctylphosphine oxide, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
dibutyl phosphate—hexane—H_2SO_4—trioctylphosphine oxide, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
1,3-diphenyl-1,3-propanedione—trioctylphosphine oxide, solvent properties for lithium and sodium in basic aqueous solutions, 21:45210 (ORNL-4164, pp 24-34)
HNO_3—methanol—trioctylphosphine oxide, use in ion exchange separation of hafnium and zirconium from other metals, 23:19857
Primene JMT—trioctylphosphine oxide, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)
TBP—trioctylphosphine oxide, solvent properties for separation of uranium from aqueous solutions, NMR studies on structural effects on, 24:39023
TBP—trioctylphosphine oxide, solvent properties for thorium, effects of nitric acid on, 25:48566 (AECD/CH-13)
TBP—trioctylphosphine oxide—$UO_2(NO_3)_2$, complex formation in, NMR studies on, 24:39023
PHOSPHINE OXIDE, TRIPHENYL-
activation of solid, studies on products from neutron, 23:11532
complexes with cerium nitrates and thorium nitrates, crystal and molecular structure of, 25:15636
complexes with cerium, thorium, and uranium, conductivity, magnetic properties, and spectra of, 24:41258
complexes with diethyldithiocarbamic acid and uranyl ions, preparation, properties, and structure of, 24:44007
complexes with neptunium, plutonium, and protactinium tetrabromides and tetrachlorides, preparation, properties, spectra, and structure of, 24:16527
complexes with plutonium nitrate, ir spectral studies on, 23:9401
complexes with plutonium tetrabromide and uranium pentabromide, preparation and properties of, 22:37722
complexes with thorium, 22:45048
complexes with thorium tetrabromide, preparation, properties, spectra, and structure of, 24:16527
complexes with thorium, titanyl, and zirconyl perchlorates, physicochemical properties and structure of, 23:33199
complexes with uranium pentabromide, preparation, properties, spectra, and structure of, 24:16510
complexes with uranium tetrabromide or uranium tetrachloride, preparation of, 23:49810
complexes with uranium tetrabromide or uranium tetrachloride, electronic spectra and magnetic susceptibilities of, 23:49810
complexes with uranyl acetate and uranyl nitrate, crystal structure of, 22:27716
complexes with uranyl bromide, chloride, nitrate, and thiocyanate, ir spectral studies on, 22:16559
complexes with uranyl chloride, 21:12380(R) (MLM-1342)
complexes with uranyl compounds, phosphorus—oxygen bonding in, effects of coordination on, 25:29088
complexes with uranyl ions containing nitrate and oxygen groups, molecular structure of, 22:50973
complexes with uranyl nitrate, spectra of, ir and Raman, 25:2212
complexes with uranyl nitrates, spectra of, ir and Raman, 23:21684
effects on synergism in solvent extraction of cesium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6394
neutron reactions with, recoil chemistry of phosphorus-32 produced in, 23:49835
properties for use as solvent extractant, donor, 24:16645
radiation effects on benzene solutions of, recoil reactions in neutron, 23:35137(R) (PRNC-130)
radiation effects on retention of recoil phosphorus-32 in neutron-irradiated, 23:49835
reactions with metal pentabromides or pentachlorides in anhydrous ethanol, acetonitrile, or dichloromethane, 25:15577
solvent properties for europium complex with salicylic acid, 24:41402
solvent properties for metal anions, effects of basicity on, 22:6413
solvent properties for rare earths and actinides, 25:32043 (NP-18827)
solvent properties for transition elements from hydrochloric acid, 24:36377
Phosphine Oxide, Tris(1-aziridinyl)-
see Triethylenephosphoramide
PHOSPHINE OXIDE, TRIS(2-METHYL-1-AZIRIDINYL)-
effects on digestion of blood meal by mosquitoes, 22:2546
effects on reproductive capacity of Drosophila in comparison to γ radiation effects, 23:43852
PHOSPHINE, PHENYL-
radiation effects on, ESR spectral studies on yields in gamma, 21:19706
radiation effects on, ESR spectral studies on yields in γ, 22:8111(T) (AEC-tr-6908, pp 216-36)
PHOSPHINE SELENIDE
complexes of trisubstituted, with iodine, formation and thermodynamic properties of, 22:22901(R) (ORO-2733-13)
PHOSPHINE, SILYL-
preparation by ozonizer silent-electric discharge reactions, 21:30402 (UCRL-17330, pp 1-78)
reactions with ammonia and boron halides, 21:30402 (UCRL-17330, pp 1-78)
BH_3—H_3SiPH_2, deuterium exchange with hydrogen in, 25:10547
PHOSPHINE SULFIDE
reactions of substituted, with alkali metals, 22:22901(R) (ORO-2733-13)
Phosphine Sulfide, Tris(1-aziridinyl)-
see Triethylenethiophosphoramide
PHOSPHINE, TRIHEXENYL-
radiochemical preparation of, γ, 21:23920
PHOSPHINE, TRIBUTYL-
radioinduced reactions with aryl halides, formation of quaternary phosphonium salts from γ, 22:27746
PHOSPHINE, TRIHEXYL-
radiochemical preparation of, γ, 21:23920
PHOSPHINE, TRIISOBUTYL-
proton NMR spectra of, computer analysis of, 24:47334
PHOSPHINE, TRIOCTYL-
radiochemical preparation of, γ, 21:23920
solvent properties for rare earths, 25:26338(P)
use for stabilization of solutions containing neptunium, protactinium, and thorium for liquid scintillation counting, 23:625
PHOSPHINE, TRIPHENYL-
activation of solid, studies on products from neutron, 23:11532
complexes with cyclohexane, hydrogen chloride, uranium tetrachloride, and water, preparation and properties of, 24:29242
complexes with cyclohexanol, hydrogen chloride, uranium tetrachloride, and water, preparation and properties of, 24:29242
complexes with cyclohexanone, hydrogen chloride, uranium tetrachloride, and water, preparation and properties of, 24:29242
complexes with dimethylglyoxime and rhodium chloride, crystal and molecular structure of, 24:33586 (MIT-1965-78)
complexes with hydridonitrogen cobalt, isotopic exchange between deuterium gas and, 22:18771
complexes with hydrogen chloride, methylcyclohexanol, uranium tetrachloride, and water, preparation and properties of, 24:29242
complexes with hydrogen chloride, uranium tetrachloride, and water, preparation and properties of, 24:29242
complexes with iron carbonyl, crystal structure of, 23:1553
complexes with metals, preparation and properties of, 21:40822

- complexes with nickel iodide and tetraphenylarsonium iodide, structure of, crystal and molecular, 23:49771 (UCRL-18667, pp 255-76)
- complexes with rhodium, preparation of, 23:35132(R) (NYO-1158-32)
- complexes with ruthenium and aromatic amines, carboxylic acids, cyclopentadiene, β-diketones, ketones, or nitriles, ir and NMR spectral studies on, 23:49782
- complexes with uranium chlorides, preparation and physical properties of, 25:6327
- complexes with uranium pentachloride, properties and spectra of, 23:43329
- complexes with uranyl acetate, preparation and properties of, 23:13719
- effects on radiation effects on poly(methyl methacrylate), mechanism of, 22:16587
- effects on radioinduced polymerization of butadiene, 22:33387
- effects on retention of nickel-65 recoil in neutron-activated nickel carbonyl, 25:15712
- radiation effects on benzene solutions of, recoil reactions in neutron, 23:35137(R) (PRNC-130)
- radioinduced reactions with aryl halides, formation of quaternary phosphonium salts from γ, 22:27746
- radiolysis of, adsorbed on porous Vycor glass, γ, 24:16607
- solvent properties for americium and lanthanides, 22:37640(T) (ANL-Trans-628, pp 2-50)

PHOSPHINIC ACID, CHLORO-(TRICHLOROMETHYL)-
- yields of labeled, in neutron radiolysis of carbon tetrachloride in presence of phosphorus-32, 21:8334

PHOSPHINIC ACID, CYCLOOCTYLPHENYL-
- solvent properties for actinides, rare earths, uranium, and yttrium in aqueous chloride solutions, 25:4147

PHOSPHINIC ACID, DIBUTYL-, BUTYL ESTER
- reactions with nitric acid and uranyl nitrate, equilibrium constants for, 23:13737
- solvent properties for cerium, 22:42817 (UJV-1924)
- solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
- solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
- solvent properties for plutonium and uranium, 22:16648 (UJV-1312)
- solvent properties for ruthenium, 22:42816 (UJV-1921)
- solvent properties for strontium, 23:7600 (UJV-1927)
- solvent properties for uranium in hydrochloric acid solutions, spectral studies on, 22:6406
- solvent properties for yttrium, 23:7599 (UJV-1926)
- solvent properties of, for uranyl nitrate, 21:8410
- butyl dibutylphosphinate—H_2O, phase studies on mutual solubility in, as function of temperature, 22:6407
- butyl dibutylphosphinate—H_2O—H_2SO_4, phase studies on solubility in, 22:6407
- butyl dibutylphosphinate—H_2O—$UO_2(NO_3)_2$, phase studies on solubility in, as function of temperature, 22:6407
- butyl dibutylphosphinate—H_2O—$UO_2(NO_3)_2$, thermodynamic properties of, 22:50976
- butyl dibutylphosphinate—HNO_3—H_2O, phase studies on solubility in, 22:6407

PHOSPHINIC ACID, DIBUTYL-, ETHYL ESTER
- solvent properties for perrhenate, pertechnetate, and uranyl ions, effects of basicity on, 22:6413
- ethyl dibutylphosphinate—H_2O, phase studies on mutual solubility in, as function of temperature, 22:6407

PHOSPHINIC ACID, DIBUTYL-, METHYL ESTER
- H_2O—methyl dibutylphosphinate, phase studies on mutual solubility in, as function of temperature, 22:6407

PHOSPHINIC ACID, DIBUTYL-, PROPYL ESTER
- H_2O—propyl dibutylphosphinate, phase studies on mutual solubility in, as function of temperature, 22:6407

PHOSPHINIC ACID, DIHEPTYL-
- solvent properties for uranium, 24:291
- diheptylphosphinic acid—TBP, solvent properties for uranium, 24:290
- diheptylphosphinic acid—TBP, solvent properties for uranium, 24:9455

PHOSPHINIC ACID, DIISOPENTYL-, BUTYL ESTER
- solvent properties for cerium, 22:42817 (UJV-1924)
- solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
- solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
- solvent properties for ruthenium, 22:42816 (UJV-1921)
- solvent properties for strontium, 23:7600 (UJV-1927)
- solvent properties for yttrium, 23:7599 (UJV-1926)

PHOSPHINIC ACID, DIMETHYL-, BUTYL ESTER
- solvent properties for cerium, 22:42817 (UJV-1924)
- solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
- solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
- solvent properties for ruthenium, 22:42816 (UJV-1921)
- solvent properties for strontium, 23:7600 (UJV-1927)
- solvent properties for yttrium, 23:7599 (UJV-1926)

PHOSPHINIC ACID, DIPHENYL-
- complexes with molybdenum, vanadium, and zirconium, ir spectra, molecular weight, and thermal stability of, 24:2180

PHOSPHINIC ACID, DIPHENYL-, BUTYL ESTER
- solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
- solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)

PHOSPHINIC ACID, DIPHENYL-, PHENYL ESTER
- solvent properties for perrhenate, pertechnetate, and uranyl ions, effects of basicity on, 22:6413

PHOSPHINIC ACID, OCTYLPHENYL-
- solvent properties for actinides, rare earths, uranium, and yttrium in aqueous chloride solutions, 25:4147

PHOSPHINIC AMIDE, P,P-BIS(1-AZIRIDINYL)-N-2-PYRIMIDINYL-
- radiomimetic effects of, on weak intermolecular bonds of deoxyribonucleoproteins, 24:27617

PHOSPHINOTHIOIC ACID, DIPHENYL-
- synthesis of phosphorus-32-labeled chloride of, from phosphorus-32-labeled pentasulfide, 24:4586

PHOSPHINOUS BROMIDE, BIS(DIBROMOMETHYL)-
- formation by γ-induced reaction between bromoform and white phosphorus, 22:37782

PHOSPHINOUS CHLORIDE, DIHEXENYL-
- radiochemical preparation of, 21:23920

PHOSPHINOUS CHLORIDE, DIHEXYL-
- radiochemical preparation of, γ, 21:23920

PHOSPHINOUS CHLORIDE, DIOCTYL-
- radiochemical preparation of, γ, 21:23920

PHOSPHITES
- see also Alkyl Phosphites
- see also Hypophosphites
- see also Sodium Phosphites
- effects on chemical state of recoil phosphorus-32 from neutron-irradiated tripolyphosphate hexahydrate, 25:57495
- hyperfine structure of, in γ-irradiated hypophosphites, ESR studies on effects of host on, 24:50430
- radiation effects on oxidation states in, gradient-elution anion-exchange chromatographic studies of thermal-neutron, 21:38958 (COO-1618-1)
- radiation effects on, ESR studies of unstable intermediates in, 22:25405
- radiation effects on, identification of complex phosphates formed by thermal-neutron, 21:38959 (COO-1618-2)
- radiation effects on, paper chromatographic separation of recoil products from thermal-neutron, 25:21074
- radiation effects on, paper electrophoresis separation of recoil products from neutron, 25:21073
- radiolysis of solutions of, yields of hypophosphate and phosphate from γ, 25:41866
- yields of labeled, in neutron radiolysis of carbon tetrachloride in presence of phosphorus-32, 21:8334
- yields of phosphorus-32-labeled, from γ and neutron radiolysis of carbon tetrachloride, 25:21035

Phosphocreatine
- see Creatinephosphoric Acid

PHOSPHODIESTERASE
- activity in intestine of rats, effects of chlorambucil and myleran on, 22:36399
- content of mutant and wild type Arabidopsis thaliana, assay of, 23:20173
- effects on RNA turnover in cell nucleus, 22:12173(R) (NYO-3621-5)
- radiation effects on activity of, from mushrooms, γ, 24:48739
- radiation effects on activity of, in intestine of rats, whole-body x, 22:36399
- radiation effects on content of, in intestinal homogenates of guinea pigs and rats, x, 23:50348

Phosphoenolpyruvate Carboxykinase
- see Phosphopyruvate Carboxylase

Phosphoenolpyruvate Kinase
- see Pyruvate Kinase

PHOSPHOFRUCTOKINASE
- properties of pure crystalline, effects of water-soluble radiotoxins on allosteric and catalytic, 25:44770
- radiation effects on activity of, in ascites tumor cells, γ, 23:4871
- radiation effects on activity of, in dormant and sprouting rye seeds, γ, 25:10974
- radiation effects on activity of, in liver of mice, effects of fasting on x, 23:26701
- radiation effects on activity of, in liver of mice, effects of starvation on whole-body x, 22:31010
- radiation effects on activity of, in liver of mice, effects of starvation on x, 23:29380
- radiation effects on activity of, in thymocytes of rats, whole-body x, 24:4570
- radiation effects on activity of, in thymocytes of rats, x, 22:45431
- radiation effects on allosteric centers of, effects of inhibitor on, 24:21077
- radioinduced inactivation of, role of sulfhydryl group in x, 23:29384

PHOSPHOGLUCOMUTASE
- activity in blood, kidneys, and liver of rats, effects of uranyl nitrates on, 23:50319
- inhibition of, activity of, in liver of rats, by beryllium, effects of cysteine and magnesium on, 21:24354
- radiation effects on activity of, in bone marrow cells of rabbits, x, 22:33728
- radiation effects on activity of, in bone marrow of rabbits, x, 24:607
- radiation effects on activity of, in dormant and sprouting rye seeds, γ, 25:10974
- radiation effects on activity of, in liver and spleen of rats, x, 23:7929 (INR-921)
- radiation effects on activity of, in liver and spleen of rats, whole-body ionizing, 22:40589
- radiation effects on activity of, in liver of rats, effects of diet on whole-body x, 21:28350
- radiation effects on activity of, in rat liver and spleen, whole-body x, 21:39345
- radiation effects on stability of, in human carcinoma cell cultures, x, 25:2585

PHOSPHOGLUCONATE DEHYDROGENASE
- radiation effects on activity of, in brain of rats, γ and x, 24:44438
- radiation effects on activity of, in human vaginal fluids in relation to protein concentrations, radium γ, 24:21083
- radiation effects on activity of, in mammary glands of cows, γ, 21:26630
- radiation effects on activity of, in plasma of rats, whole-body x, 21:11025
- variation in doves and pigeons, inheritance of electrophoretic, 24:39440(R) (COO-1210-53)

Phosphohexose Isomerase
- see Glucosephosphate Isomerase

PHOSPHOLIPASE A
- activity in rat spleen endoplasmic reticulum, 25:37403 (ANL-7770, pp 55-75)
- activity of membrane-bound, effects of cations, metabolites, hormones, and drugs on, 25:37403 (ANL-7770, pp 55-75)
- effects on chloroplasts in comparison to uv effects, 23:7933(R) (RLO-1783-18)
- effects on polarity of muscle cell membranes, combined effects of cesium and potassium ions on, 21:45495(R) (AD-629215)
- purification of, 25:37403 (ANL-7770, pp 55-75)
- radiation effects on activity in lysosomes, microsomes, and mitochondria in Sticker sarcoma of dogs, γ, 25:57940
- radiation effects on activity of, in intestinal mucosa of rats, x, 22:553(R) (ORO-3329-3)
- radiation effects on activity of, in rats, x, 21:20028(R) (ORO-3329-2)
- radiation effects on sensitivity of proteins in erythrocyte cell membrane to, x, 22:23442

PHOSPHOLIPASE B
- activity in tissues of rats in relation to content of eosinophilic leukocytes, 23:11996(R) (ORO-3329-4)
- content of rat intestine, effects of cyclophosphamide and dexamethasone on, relation of, to previous studies on x-irradiated rats, 25:10961(R) (ORO-3329-6)
- radiation effects on activity of, in intestinal mucosa of rats, x, 22:553(R) (ORO-3329-3)
- radiation effects on activity of, in intestine of rats in relation to number of eosinophils, x, 25:4455(R) (ORO-3329-7)
- radiation effects on activity of, in rat tissues, x, 24:4561(R) (ORO-3329-5)
- radiation effects on activity of, in rats, x, 21:20028(R) (ORO-3329-2)

PHOSPHOLIPIDS
- Epsilon-tachostyptan, radiation effects on, Siemens Teaching Reactor for evaluation of, 23:29385
- radiation effects on biosynthesis of, in cotton seeds, latent cobalt-60 γ, 23:5054
- radiation effects on content of bound, in liver of rabbits in comparison with effects of lipid radiotoxin or oleic acid, ionizing, 24:27524
- radiation effects on content of, in blood, brain, and liver of rats, cerium-144 β and γ, 23:9865
- radiation effects on content of, in rats, cerium-144 β and γ, 23:9867
- radiation effects on content of, in tissues of rats, continuous γ, 25:24409
- radiation effects on electric conductivity of bilayer membranes of, x, 24:34085
- radiation effects on metabolism of, in central nervous system of rats, x, 24:5992(R) (N-68-32427)
- radiation effects on palmitate incorporation in, in ascites tumors, γ, 25:13362 (CEA-R-4039)
- radiation effects on rat brain, protective effects of cysteine against x, 25:42620
- radiation effects on, in canned chicken pet food products, 25:26647
- radioprotective effects of oral administration of, on rats, x, 23:29589
- reactions of monolayers of, with uranyl ions, 23:24175
- synthesis during cell cycle of Anacystis nidulans, 24:36742
- synthesis in brain sections in vitro, phosphorus-32 tracer study of effects of 2-aminoethylphosphonic acid on, 24:588
- Tachostyptan, radiation effects on, Siemens Teaching Reactor for evaluation of neutron, 23:29385

Phospholipins
- see Phospholipids

4-PIPERIDONE, 2,2,6,6-TETRAMETHYL-, N-OXIDE
- effects on radiosensitivity of anoxic cells, 22:21410(R) (YALE-2653-30)

Phosphonazo III
- see 2,7-Naphthalenedisulfonic Acid, 4,5-Dihydroxy-3,6-bis[(o-phosphonophenyl)azo]-

PHOSPHONIC ACID
- aminoalkyl derivatives of, use of salts of, for removal of beryllium-7 from mice and rats, 21:10747
- solvent properties of derivatives of, for rare earths and strontium in fission product solutions, 21:24061 (EUR-3277.f)

PHOSPHONIC ACID, ALKYL-, ALKYL ESTERS
- reactions with uranyl nitrate, effects of substituent radical dimensions on, 23:17434

PHOSPHONIC ACID, 1-AMINOETHYL-
- spectra of deuterated and normal, ir, 23:116

PHOSPHONIC ACID, (α-ANILINOBENZYL)-, OCTYL ESTER
- solvent properties for barium and lanthanum in hydrochloric acid solutions, 22:37847
- solvent properties for niobium and tantalum, 21:45215
- solvent properties for yttrium, 23:21805

PHOSPHONIC ACID, BIS(2-ETHYLHEXYL) ESTER
- solvent properties for rare earths, 21:19745

PHOSPHONIC ACID, BUTYL-, DIBUTYL ESTER
- effects on solvent extraction of strontium using D2EHPA, synergistic, 22:42807 (BNWL-759)
- reactions with nitric acid and uranyl nitrate, equilibrium constants for, 23:13737
- separation from aqueous waste concentrate solutions by sorption on bed of activated carbon, 23:40794 (BNWL-1109)
- solvent properties for actinides and lanthanides in reprocessing of LMFBR fuel, 25:54706 (BNWL-SA-3345)
- solvent properties for americium, 22:21018 (ARH-SA-1)
- solvent properties for americium, 21:145 (ISO-SA-7)
- solvent properties for americium in radioactive waste, 25:6389 (BNWL-CC-1503)
- solvent properties for bismuth, 23:9502 (BNWL-799)
- solvent properties for cerium, 22:42817 (UJV-1924)
- solvent properties for neptunium and plutonium, 23:15922 (BNWL-702)

  solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
  solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
  solvent properties for plutonium and uranium, 22:16648 (UJV-1312)
  solvent properties for plutonium in nitric acid solutions of bismuth, 23:11599 (HW-83226)
  solvent properties for plutonium in Recuplex waste stream, 21:24064 (HW-69910)
  solvent properties for polonium in nitric acid solutions, 23:45393(P)
  solvent properties for ruthenium, 22:42816 (UJV-1921)
  solvent properties for strontium, 23:7600 (UJV-1927)
  solvent properties for uranium in hydrochloric acid solutions, spectral studies on, 22:6406
  solvent properties for yttrium, 23:7599 (UJV-1926)
  bis(2-ethylhexyl) phosphate—dibutyl butylphosphonate, solvent properties for lanthanide rare earths and strontium, 25:37490(P)
  dibutyl butylphosphonate—TBP, solvent properties for praseodymium and ytterbium, 24:9460
PHOSPHONIC ACID, CARBAMOYL-, DIBUTYL ESTER
  solvent properties for inorganic ions in hydrochloric acid solutions, 24:39008
PHOSPHONIC ACID, [α-(2-CARBOXYANILINO) BENZYL]-, OCTYL ESTER
  solvent properties for europium, manganese, and strontium in chloride solutions, 24:27209
PHOSPHONIC ACID, (CHLOROMETHYL)-
  production of labeled, by reactions of recoil phosphorus atoms with chloromethanes, mechanism of, 22:30595
PHOSPHONIC ACID, DIETHYL ESTER
  hydrolysis of, bond fission in, 22:27639
  solvent properties for thorium and uranium in nitric acid solutions, 22:33489
PHOSPHONIC ACID, (2,2,2-DICHLORO-1-HYDROXYVINYL)-, ESTERS
  radiation effects on, ESR study of free radicals from x, 23:2319
PHOSPHONIC ACID, (DICHLOROMETHYL)-
  production of labeled, by reactions of recoil phosphorus atoms with chloromethanes, mechanism of, 22:30595
PHOSPHONIC ACID, (2,2-DICHLOROVINYL)-, DIMETHYL ESTER
  radiolysis of, formation and conversion of primary radicals in x, 24:4327
PHOSPHONIC ACID, DIETHYLCARBAMOYL-, DIBUTYL ESTER
  solvent properties for actinides, 24:38757
  solvent properties for curium and einsteinium in hydrochloric, nitric, and perchloric acid solutions, 24:48151
  dibutyl diethylcarbamoylphosphonate—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for separation of californium from curium and separation of europium from samarium, 25:21142
PHOSPHONIC ACID, DIETHYLCARBAMOYL-, DIISOPROPYL ESTER
  complexes with rare earth chlorides and nitrates, structure of, 23:11500
PHOSPHONIC ACID, DIMETHYL ESTER
  hydrolysis of, bond fission in, 22:27639
PHOSPHONIC ACID, DIPROPYL ESTER
  deuterium exchange between heavy water and, 22:27639
  oxygen-18 exchange between water and, 22:27639
  solvent properties for thorium and uranium in nitric acid solutions, 22:33489
PHOSPHONIC ACID, ESTERS
  phosphorus-31 chemical shifts in, effects of organic substituents on, 21:27953
  solvent properties for cerium, 21:12512
PHOSPHONIC ACID, [ETHYLENEBIS(IMINOISOPROPYLIDENE)]DI-
  complexes with americium, curium, and promethium, electromigration study of, 23:127
PHOSPHONIC ACID, ETHYLENEDI-, TETRABUTYL ESTER
  effects on solvent extraction of actinides from nitric acid solutions by tridodecylamine, synergistic, 24:36344 (CEA-N-1241, pp 375-425)
PHOSPHONIC ACID, ETHYLENEDI-, DIBUTYL ESTER
  complexes with trivalent actinides and lanthanides, distribution coefficients for, 24:5730
  solvent properties for europium from sodium perchlorate solutions, 25:57544
PHOSPHONIC ACID, ETHYLENEDI-, DIOCTYL ESTER
  complexes with trivalent actinides and lanthanides, distribution coefficients for, 24:5730
PHOSPHONIC ACID, [1-(1-HYDROXY-2-NAPHTHYL) ETHYL]-, DIETHYL ESTER
  solvent properties for antimony, gold, iron, molybdenum, rhenium, and thallium, 23:387
PHOSPHONIC ACID, (1-HYDROXYETHYLIDENE)DI-
  determination by spectrometric titration using thorium (1,2-cyclohexylenedinitrilo)tetraacetate, 25:10462
  solvent properties for rare earths on ion exchange columns, 24:44080(P)
PHOSPHONIC ACID, [1-(1-HYDROXY-2-NAPHTHYL) ETHYL]-, DIISOPROPYL ESTER
  solvent properties for antimony, gold, iron, molybdenum, rhenium, and thallium, 23:387
PHOSPHONIC ACID, [1-(1-HYDROXY-2-NAPHTHYL) ETHYL]-, DIMETHYL ESTER
  solvent properties for antimony, gold, iron, molybdenum, rhenium, and thallium, 23:387
PHOSPHONIC ACID, (HYDROXYPHENYLMETHYL)-, DIISOPROPYL ESTER
  solvent properties for antimony, gold, iron, molybdenum, rhenium, and thallium, 23:387
PHOSPHONIC ACID, ISOPENTYL-, DIBUTYL ESTER
  solvent properties for cerium, 22:42817 (UJV-1924)
  solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
  solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
  solvent properties for ruthenium, 22:42816 (UJV-1921)
  solvent properties for strontium, 23:7600 (UJV-1927)
  solvent properties for yttrium, 23:7599 (UJV-1926)
PHOSPHONIC ACID, METHYL-
  complexes with americium, curium, and promethium, thermodynamic stability constants for, 21:32172
  separation of americium, curium, and promethium from, by ion exchange, 21:32172
  sodium salt, structure of deuterated and normal, spectral studies on, 23:132
  spectra of deuterated and normal, ir, 23:116
PHOSPHONIC ACID, METHYL-, ALKYL ESTERS
  reactions with uranyl nitrate, effects of substituent radical dimensions on, 23:17434
PHOSPHONIC ACID, METHYL-, DIBUTYL ESTER
  solvent properties for americium and lanthanides, 22:37640(T) (ANL-Trans-628, pp 2-50)
  solvent properties for cerium, 22:42817 (UJV-1924)
  solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
  solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
  solvent properties for ruthenium, 22:42816 (UJV-1921)
  solvent properties for strontium, 23:7600 (UJV-1927)
  solvent properties for yttrium, 23:7599 (UJV-1926)
PHOSPHONIC ACID, METHYL-, DIISOOCTYL ESTER
  solvent properties for cerium, 25:18516
PHOSPHONIC ACID, METHYL-, DIISOPENTYL ESTER
  complexes with double chloride salts, properties, spectra, and structure of, 24:16507
  complexes with magnesium thiocyanate, nickel thiocyanate, and uranyl nitrate, properties, spectra, and structure of, 24:16507
  solvent properties for cerium, 25:18516
  solvent properties for uranyl compounds, NMR studies of effects of anions on, 25:15739
  use in separation of cerium, rare earths, and thorium from hydrochloric acid solutions, 23:374
PHOSPHONIC ACID, [[PHOSPHONOMETHYL) IMINO]BIS(ETHYLENE NITRILODIMETHYLENE] TETRA-
  effects on protactinium-233 distribution in organs and tissues of rats, 25:23963(T) (AEC-tr-7195, pp 136-46)
PHOSPHONIC ACID, PYRIDYLMETHYL ESTER
  hydrolysis of, effects of polyvalent metal ions on, 24:16526
PHOSPHONIC ACID, METHYL-, DIMETHYL ESTER
  radiation effects on, ESR spectral studies on yields from γ, 25:130(R) (ORO-2968-56)
PHOSPHONIC ACID, METHYL-, DIPENTYL ESTER
  solvent properties for uranium in hydrochloric acid solutions, spectral studies on, 22:6406
PHOSPHONIC ACID, METHYLENEDI-, DIBUTYL ESTER
  solvent properties for hafnium and zirconium, 25:44429
PHOSPHONIC ACID, METHYLENEDI-, DIOCTYL ESTER
  solvent properties for niobium and tantalum, 22:42833
  solvent properties for niobium and tantalum in hydrochloric and oxalic acid solutions, 22:6411
  solvent properties for niobium and zirconium, 21:1437
PHOSPHONIC ACID, (1-NAPHTHYLMETHYL)-, DIISOPROPYL ESTER
  solvent properties for antimony, gold, iron, molybdenum, rhenium, and thallium, 23:387
PHOSPHONIC ACID, 1-OXOOCTYL-, DIOCTYL ESTER
  solvent properties for niobium, tantalum, and zirconium in chloride, nitrate, and sulfate solutions, 22:6403
PHOSPHONIC ACID, PHENYL-
  reactions with plutonium, solubility of compounds formed by, 24:2200
  yields of phosphorus-32-labeled, in neutron-irradiated benzene—phosphorus trichloride, effects of diluent on, 23:13770
PHOSPHONIC ACID, PHENYL-, 2-ETHYLHEXYL ESTER
  complexes with actinides and rare earths, separation factors and stability constants for, 24:16537
  solvent properties for calfornium in solutions containing americium and curium, 23:35272
  solvent properties for cations in chloride and nitrate solutions, effects of zirconium on, 22:48905
  solvent properties for lanthanides, effects of enthalpy and entropy on, 22:2182
  solvent properties for rare earths, 22:2183
  solvent properties for rare earths, 21:19745
PHOSPHONIC ACID, PHENYL-, DIBUTYL ESTER
  determination of nitric-degraded, in diethylbenzene, gas chromatographic, 22:33257
  effects on solvent extraction of strontium using D2EHPA, synergistic, 22:42807 (BNWL-759)
  solvent properties for cerium, 22:42817 (UJV-1924)
  solvent properties for nitric acid and uranyl nitrate, 22:21158 (UJV-1148)
  solvent properties for ruthenium, 22:42816 (UJV-1921)
  solvent properties for thorium and uranium in nitric acid solutions, 22:33489
  solvent properties for thorium-229 in solutions containing uranium-233, 25:216(R) (MLM-1726)
  use in separation of thorium-229 from uranium-233 by solvent extraction, 21:31777(R) (MLM-1388)
PHOSPHONIC ACID, DI-sec-BUTYL ESTER
  solvent properties for thorium and uranium, 21:12380(R) (MLM-1342)
  solvent properties for uranium, 21:36076 (BNWL-440)
PHOSPHONIC ACID, PHENYL-, DIHEXYL ESTER
  solvent properties for nitric acid and uranyl nitrate, 23:7605
PHOSPHONIC ACID, PHENYL-, DIPHENYL ESTER
  solvent properties for niobium-95 and zirconium-95 and uranium, 22:25467 (UJV-1912)
  solvent properties for perrhenate, pertechnetate, and uranyl ions, effects of basicity on, 22:6413
PHOSPHONIC ACID, PHENYL-, ISOPROPYL ESTER
  complexes with uranyl acetate, structure of, 23:19719
PHOSPHONIC ACID, PHENYL-, OCTYL ESTER
  solvent properties for americium in nitric acid, synergism in, 21:5834 (IA-1082, pp 77-202)
PHOSPHONIC ACID, PYRUVYL-, DIOCTYL ESTER
  solvent properties for niobium, tantalum, and zirconium in chloride, nitrate, and sulfate solutions, 22:6403
PHOSPHONIC ACID, SUCCINIMIDO-, DIBUTYL ESTER
  solvent properties for elements, 22:16666
PHOSPHONIC ACID, (2,2,2-TRICHLORO-1-HYDROXYETHYL)-, DIMETHYL ESTER
  radiolysis of single crystals of, ESR study of radicals from x, 24:4326
  radiolysis of, formation and conversion of primary radicals in x, 24:4327
PHOSPHONIC ACID, (2,2,2-TRICHLORO-1-HYDROXYETHYL)-, ESTERS
  radiation effects on, ESR study of free radicals from x, 23:2319
  radiolysis of, ESR study of radicals from x, 24:4326
PHOSPHONIC ACID, (2,2,2-TRICHLORO-1-METHOXYETHYL)-, ESTERS
  radiation effects on, ESR study of free radicals from x, 23:2319
PHOSPHONIC ACID, (TRICHLOROMETHYL)-
  production of labeled, by reactions of recoil phosphorus atoms with chloromethanes, mechanism of, 22:30595
PHOSPHONIC ACID, VINYL-, DICHLORIDE
  radioinduced polymerization of, γ, 22:33386
PHOSPHONIC ACID, VINYL-, BIS(2-CHLOROETHYL) ESTER
  radioinduced polymerization of, γ, 22:33386
  radioinduced polymerization of, with methyl methacrylate and styrene, mechanism of γ, 22:18849
  radioinduced solution polymerization of, at -78 to 40°C, mechanism of γ, 22:18846
  radioinduced solution polymerization of, γ, 23:6172
PHOSPHONITRILE CHLORIDES
  radiation effects on thermoluminescence of, x, 22:30635
  radioinduced polymerization of, review on electron and uv, 22:25421
PHOSPHONIUM BROMIDES
  spectra of thin films of, effects of deuterium on ir and Raman, 24:7430
PHOSPHONIUM CHLORIDES
  spectra of, effects of deuterium on far ir and Raman, 24:38896
PHOSPHONIUM COMPOUNDS
  alkylphosphonium hexachlorothorate, spectra of, Raman and ir, 22:35821
  alkylphosphonium hexachlorouranates, spectra of, Raman and ir, 22:35821
  benzyltributylphosphonium chloride, preparation of, 22:14483 (ORNL-4196, pp 91-2)
  butyltriphenylphosphonium bromide, complexes with various metals and pyrocatechol, 22:48906
  complexes with niobium bromides, preparation and properties of, 21:14190
  complexes with protactinium bromides, preparation and properties of, 21:14190
  complexes with tantalum bromides, preparation and properties of, 21:14190
  complexes with uranium hexachloride, 21:12380(R) (MLM-1342)
  cyclohexylphosphonium chloride, radioinduced reactions with styrene, effects of dose and temperature on γ, 21:40881 (NP-16645)
  dicyclohexylphosphonium chloride, radioinduced reactions with styrene, effects of dose and temperature on γ, 21:40881 (NP-16645)
  electric field gradient for deuteron sites of deuterated, one-center expansion wave functions in calculation of, 22:12279
  neodymium triphenylphosphonium chloride, spectra of trivalent neodymium ions in monocrystals of, absorption, 23:46552(R) (RLO-2012-3)
  propyltriphenylphosphonium bromide, complexes with various metals and pyrocatechol, 22:48906
  radioinduced production by reactions of triphenylphosphine or tributylphosphine with aryl halides, γ, 22:27746
  solvent properties of, evaluations of, 24:270 (ORNL-4422, pp 252-71)
  tetrabutylphosphonium bromide, preparation of, 22:14483 (ORNL-4196, pp 91-2)
  tetraphenylphosphonium chloride, activation of solid, studies on products of neutron, 23:11532
  tetraphenylphosphonium chloride, solvent properties for protactinium in hydrochloric acid and oxalic acid solutions, 24:44084
  tetraphenylphosphonium chloride, solvent properties for niobium, protactinium, and zirconium, 23:17536
  tetraphenylphosphonium chloride, solvent properties for neptunium, 23:28966
  vinylphosphonium bromide, radioinduced polymerization of, 21:125(P)
  vinylphosphonium chloride, radioinduced polymerization of, 21:125(P)
  vinylphosphonium iodide, radioinduced polymerization of, 21:125(P)
PHOSPHONIUM IODIDES
  phosphonium ion motion in, 22:6193 (BNL-11836)
  radioinduced color centers in single-crystal, EPR study of I_2^-, x-, 22:20056
PHOSPHONIUM IONS
  motion in phosphonium iodides, 22:6193 (BNL-11836)
  tetrafluoro-, structure of, (T), 21:1380(R) (RRL-2310-188)
PHOSPHONOUS ACID, PHENYL-
  yields of phosphorus-32-labeled, in neutron-irradiated benzene—phosphorus trichloride, effects of diluent on, 23:13770
PHOSPHONOUS DIBROMIDE, DIBROMOMETHYL-
  formation by γ-induced reaction between bromoform and white phosphorus, 22:37782

PHOSPHONOUS DICHLORIDE
  alkyl derivatives, radiation effects on mixtures with hydrocarbons, γ, 21:23920
  chloroalkyl derivatives, radioinduced formation from phosphorus trichloride and alkenes, 21:30439 (BMwF-FBK-67-23)
PHOSPHOPROTEINS
    see also Casein
    see also Egg Yolks
    see also Milk
  metabolism of, in mouse spleen, strontium-90 effects on, 21:13020
  phosphorus-32 uptake by, in liver and mammary glands of rats, effects of progesterone and stilbestrol on, 24:21067
  radiation effects on metabolism of, in brain of guinea pigs, effects of folic acid on x, 22:19454
PHOSPHOPYRUVATE CARBOXYLASE
  radiation effects on activity of, in liver of mice, effects of fasting on x, 23:26701
  radiation effects on activity of, in liver of mice, effects of starvation on whole-body x, 21:36689
  radiation effects on activity of, in liver of rats, x, 23:806
PHOSPHOPYRUVATE HYDRATASE
  radiolysis of, effects of cupric ions on γ, 21:36032
  radiolysis of, sensitizing effects of metal ions on gamma, 21:5834 (IA-1082, pp 77-202)
  radiosensitivity of, effects of copper ions on, 22:23398 (IA-1128, pp 147-55)
Phosphor Bronze
    see Bronze
PHOSPHORAMIDIC ACID, CARBAMOYL-, DIBUTYL ESTER
  solvent properties for inorganic ions, 23:38035
PHOSPHORAMIDIC ACID, 2,4-DICHLOROPHENYL METHYL ESTER
  hydrolysis of alkyl substituted, effects of deuterium on, 22:33326
PHOSPHORAMIDOTHIOIC ACID
  diammonium-, radioprotective effects of, on mice, x, 24:6065
PHOSPHORESCENCE
    see also Fluorescence
    see also Luminescence
    see also Phosphors
  conference on, Munich, September 6 to 9, 1967, parts I and II, 22:8155
  measurement of, design of instrument for, 21:21829(R) (NYO-3401-3)
  radioinduced, in collagen and globular protein of connective tissue, uv, 24:2577
PHOSPHORIC ACID
    see also Fluorophosphoric Acid
    see also Polyphosphoric Acid
  analysis for cerium, voltammetric, 22:14437
  analysis for trace fluorides, effects of metal ions on potentiometric, 22:33244
  analysis for uranium using 2-[(5-bromo-2-pyridyl)azo]-5-(diethylamino)phenol, spectrophotometric, 25:18352
  analysis for uranium, method for, 22:27846 (CEA-N-816, pp 277-323)
  analysis of solutions of, for molybdenum, polarographic method for, 25:44328
  analysis of, for phosphorus-32, by paper chromatography and scintillation counting, 21:10294
  complexes with americium, cerium, promethium, and yttrium, properties of, 21:3057
  complexes with boron trifluoride, tritium exchange between hydrocarbons and tritiated, 22:18807 (EUR-3731)
  complexes with plutonium, effects of concentration on, 22:8072
  complexes with protactinium in perchloric acid, formation of, 21:19631
  complexes with protactinium, solvent extraction method for calculating constants of, 22:6387
  compounds with potassium thorium oxalates, preparation and properties of, 24:27055
  corrosive effects of boiling, on niobium alloys, 21:20469
  corrosive effects on molybdenum, 22:43530 (BM-RI-7169)
  corrosive effects on molybdenum alloys, relations with concentration, pressure, and temperature, 25:29776
  corrosive effects on molybdenum—tungsten alloys, 22:43530 (BM-RI-7169)
  corrosive effects on rhenium, relations with temperature, 23:8123
  corrosive effects on tantalided nickel and Type 316 stainless steel at 150°C, 25:29766
  corrosive effects on tungsten, 22:43530 (BM-RI-7169)
  corrosive effects on TZM molybdenum allovs, 22:43530 (BM-RI-7169)
  corrosive effects on zirconium alloys, 25:41832(R) (AECL-3851)
  decomposition of, effects of deuterium on, at 5 to 50°C, 24:16533
  determination in acetone solutions, method for, 22:25236 (CEA-N-616, pp 20-71)
  distribution of phosphorus-32-labeled, in tissues of normal or tumor bearing mice in comparison with phosphorus-32-labeled chromium alloxantin, 25:29453
  effectiveness for decontamination of surfaces contaminated with carbon-14-labeled organic compounds, 24:46604
  effects as corrosion inhibitor on aluminum fuel cans exposed to reactor coolant water, 23:16469
  effects of anodizing electrolytes of, on tantalum corrosion by zinc at 1000°C, 25:2630
  effects of residues of, on γ-radiosensitivity of nucleotides, purines, and pyrimidines, 22:33770
  effects of solid, on rearrangements of ketones, mechanisms of catalytic, 21:14184(R) (ORO-3234-4)
  effects of, on determination of yttrium by flame photometry, 21:15867
  effects of, on spectrofluorimetric determination of trace amounts of uranium, 21:10244 (AECL-2647)
  effects on chemical stability of hafnium oxide—rare earth oxide compounds, 24:27854
  effects on chronopotentiometric behavior of uranium(VI), 24:36229
  effects on corrosion of aluminum fuel cladding by water, 24:14651
  effects on critical temperature of water, 22:25329 (ORNL-4229, pp 84-104)
  effects on dissolution of stainless steel cladding on uranium dioxide fuel elements, 24:11505 (IA-1190, pp 133-81)
  effects on electrochemical characteristics of rare earths, 21:23902
  effects on emission and flame photometric determination of calcium, 21:27920
  effects on growth of porous anodic oxide films on Zircaloy-2, 24:25056
  effects on γ radiolysis of frozen aqueous solutions of organic compounds, 24:20797
  effects on γ-radioinduced graft polymerization of 2- and 4-vinylpyridine with polyethylene terephthalate, 23:17450 (JAERI-5018, pp 5-14)
  effects on hydrolysis of ethyl vinyl ether, isotope effects on, 23:11481
  effects on oxidation of tantalum at 500 to 625°C, analysis of, 22:48788
  effects on polarographic behavior of uranium, 22:27535 (NIM-129)
  effects on strontium-89 metabolism in tissues of chicks, 22:14973
  effects on titrimetric determination of chromium, molybdenum, and vanadium, 22:22948
  electric conductivity of, in heavy and light water, effects of temperature on, 23:172
  electrolysis of, in presence of uranyl, cerium, and terbium ions and quinine, chemiluminescence of reaction products from, 21:10342
  performance as scandium oxide—zirconium oxide etchant, 24:8197 (CONF-670533-, pp 16-22)
  photolysis of, review on, 22:25421
  production of labeled, by reactions of recoil phosphorus atoms with chloromethanes, mechanism of, 22:30595
  production of, uranium recovery as by-product in, 25:23684
  properties of aqueous solutions of, to increase effectiveness of reactor emergency core cooling systems, 23:28492 (SNE-50)
  properties of concentrated, for clear glass formation at liquid-nitrogen temperature for use in spectrofluorimetric determination of inorganic traces, 23:9376
  radiation effects on glossy, at 77°K, EPR studies of γ, 22:30640
  radiation effects on incorporation of phosphorus-32 labeled, into the DNA of splenic lymphocytes from hamsters, x, 22:23604
  radiation effects on photolytic transformation of radicals in aqueous solutions of, EPR spectral studies on gamma, 21:25883
  radiation effects on, condensation and oxidation in γ, 23:31383
  radiation effects on, in soil, γ, 24:5684
  radioinduced thermoluminescence of, effects of phase transitions on x, 22:16593
  radiolysis of aqueous solutions of, ESR study of decay of hydrogen atoms in γ, 23:33238
  radiolysis of frozen aqueous solutions of, 22:14514 (COO-1528-18)
  radiolysis of frozen aqueous solutions of, at 77°K, ESR studies and free radicals from γ, 25:51535
  reaction with nitric acid and uranyl nitrate, heterogeneous equilibria in precipitation of uranyl orthophosphates from, 23:11483
  reactions in water—water-d_2, effects of deuterium on relative acidity constant for, 24:9285
  reactions of, with heptanones, hexanones, and pentanones, mechanisms of rearrangements in catalytic, 21:14184(R) (ORO-3234-4)
  reactions with americium, spectral studies on reduction, 23:28852
  reactions with carbonates, effects of oxygen-18 on, 23:43309
  reactions with plutonium and uranium in aqueous solutions, spectral studies on coexistence of tetravalent metals in, 22:40057
  reactions with strontium silicate at 25 to 100°C, 24:20950(R) (ORNL-TM-2910)
  reactions with tantalum surfaces, anodizing, 25:11351
  reactions with thorium nitrates, 21:45098
  reactions with thorium nitrates, 23:9396
  reactions with unsaturated alkyl mercuric halides, effects of deuterium on, 23:24178
  reactions with uranyl nitrate, heterogeneous equilibria in precipitation of uranyl orthophosphates from, 23:11484
  S-2-amino propyl (amino ethyl) ester, radioprotective effects of, on healing of surgical wounds in rats, x, 23:50636
  separation from Purex wastes by distillation following solidification by phosphate glass process, 24:13992 (BNL-50184)
  separation from uranium by reversed-phase column chromatography using TBP, 23:19836
  separation of uranium from, by solvent extraction using D2EHPA—TOPO mixture, 23:361 (ORNL-4272, pp 174-86)
  solvent properties for clad ceramic fuels, 22:19670 (BNWL-624, pp 6.1-20)
  solvent properties for hafnium phosphate and zirconium phosphate, 23:49788
  solvent properties for irradiated plutonium dioxide, 21:1421(R) (ORNL-3965)
  solvent properties of γ-irradiated, for metals, 23:9306 (ORNL-4343, pp 62-84)
  use for electrolyte in electrodeplating method for decontaminating metals, 21:43437
  use in decontamination agents for chemical-resistant coated surfaces, 21:43425
  use in fixing powdered phosphors on luminescent light sources, 21:36286(P)
  use in separation of cesium-137 from fission product solutions of molybdenum—uranium alloys, 21:28048 (EUR-3451.f)
  use in separation of hafnium, thorium, and zirconium from various metals, 21:39007
  use of phosphorus-32-labeled, for calibration of Geiger—Mueller detector for determination of nitrogen-13 and oxygen-15 in air near electron linear accelerator, 23:31522
  yields of recoils of phosphorus-32-labeled, in neutron irradiation of alkali salts of phosphoric esters of fructose, galactose, and glucose, 23:256
  ethylene glycol—H_3PO_4, use in electrolytic cleaning of plutonium, 22:23749(P)
  H_2CrO_4—H_3PO_4, corrosive effects of aqueous, on aluminum, 24:23434
  H_3PO_4—H_2SO_4, effects on electrochemical behavior of uranium, 25:4792
  H_3PO_4—H_2SO_4, solvent properties for uranium nitride, 23:47376
  HCl—H_3PO_4, analysis for tetravalent, hexavalent, and total uranium by trioctylamine extraction and polarography, 25:44324
  HCl—H_3PO_4, performance as uranium anodic etching solutions, 21:26752 (BNWL-SA-1030)
  HF—H_3PO_4—$K_2Cr_2O_7$, use as a solvent in spectrophotometric determination of nitrogen in refractory metals and alloys, 22:16448
  HNO_3—H_3PO_4, performance of aqueous, as etchant for steels, 21:32836 (ARC-CP-811)
  HNO_3—H_3PO_4—H_2SO_4, solvent properties of aqueous, for clad ceramic fuels, 22:19670 (BNWL-624, pp 6.1-20)
PHOSPHORIC ACID, ALKYL ESTERS
  complexes with divalent and trivalent metals in solvent extraction, formation of, 24:9474
  phosphorus-32 exchange between iron phosphate and, kinetics of, 23:198
  photolysis of, review on, 22:25421
  reactions with uranyl nitrate, effects of substituent radical dimensions on, 23:17434
  separation from each other and TBP by gas chromatography, 23:9301 (ORNL-4343, pp 11-23)
  separation of uranyl nitrate from, by water extraction, kinetics of, 21:17723
  separation of uranyl nitrate from, by water extraction, kinetics of, 21:17723
  solvent properties for beryllium, 21:14306(P)
  solvent properties for hafnium, 24:36375
  solvent properties for metals, 25:15742
  solvent properties for rare earths, 25:206 (CONF-700403-(Vol.2), pp 802-13)
  solvent properties for uranium(IV) in phosphoric acid, 21:32254
  solvent properties of, for beryllium, 21:14306(P)
  use in paper chromatographic separation of rare earths, 22:42630
  use of, on polyvinyl chloride for separation of uranium from nitrate solutions, 21:17717
  yields of phosphorus-32-labeled, in neutron irradiated carbon tetrachloride in presence of alcohols, mechanism of, 22:30596
PHOSPHORIC ACID, ALLYL ESTERS
  acrylamide—triallyl phosphate, radioinduced polymerization on cotton, flame-resistant properties of products from γ, 23:28878
  acrylic acid—triallyl phosphate, radioinduced polymerization on cotton, flame-resistant properties of products from γ, 23:28878
  acrylonitrile—triallyl phosphate, radioinduced polymerization on cotton, flame-resistant properties of products from γ, 23:28878
  methyl methacrylate—triallyl phosphate, radioinduced polymerization on cotton, flame-resistant properties of products from γ, 23:28878
  N-(hydroxymethyl)acrylamide—triallyl phosphate, radioinduced polymerization on cotton, flame-resistant properties of products from γ, 23:28878
PHOSPHORIC ACID, 2-AMINOETHYL ESTERS
  determination of carbon-14-labeled, radiochromatographic, 22:6279
  sodium salt, effects on gastrointestinal tract function in rats, 21:16374(T) (JPRS-38272, pp 296-7)
PHOSPHORIC ACID, ARYL ESTERS
  photolysis of, review on, 22:25421
  solvent properties for metals, 25:15742
PHOSPHORIC ACID, BIS(CHLOROPHENYL) ESTER
  solvent properties for trivalent rare earths in perchlorate solutions, 21:17731
  bis(p-chlorophenyl) phosphate—trioctylamine, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
PHOSPHORIC ACID, BIS(2,2-DIMETHYLHEXYL) ESTER
  solvent properties for rare earths and uranium, 25:10679
PHOSPHORIC ACID, BIS(2-ETHYLHEXYL) ESTER
  analysis of solutions of, for uranium-235 by scintillation counting, 23:40577
  complexes with beryllium, ir spectra of, effects of deuterium on, 22:45040
  complexes with lanthanum and neodymium nitrates, spectra of, ir and Raman, 25:2193 (CONF-700403-8)
  complexes with plutonium and uranium, charge transfer transitions in, 22:37745
  complexes with sodium, dielectric constants of solutions of, in octane with and without TBP, 21:30399 (ORNL-TM-1893)
  complexes with sodium, refractive indexes of solutions of, in octane, 21:30399 (ORNL-TM-1893)
  complexes with strontium, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
  compounds with metals, properties as stationary phase in gas chromatographic separations, 25:31771

dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
effects on separation of trace amounts of scandium from rare earths by ion exchange, 23:4721
effects on solvent properties of TBP for uranium, 24:36364
effects on synergism in solvent extraction of actinides from nitric acid solutions by tridodecylamine, 24:36344 (CEA-N-1241, pp 375-425)
processing of chemically and/or radiolytically degraded, for cerium(IV) extraction, 25:37470(P)
properties as stationary phase in reversed-phase chromatographic separation of metal ions, 23:35268
radiation effects on solvent properties for actinide and lanthanide chlorides, 23:35258 (INP-674)
reactions with zirconium, kinetics of, 25:21089
refractive indexes of solutions of, in octane, 21:30399 (ORNL-TM-1893)
separation from aqueous waste concentrate solutions by sorption on bed of activated carbon, 23:40794 (BNWL-1109)
separation of plutonium from, by reduction, compounds for, 23:357 (ORNL-4272, pp 92-128)
solvent properties for actinide and lanthanide chlorides in partition chromatographic separation process, 24:19080
solvent properties for actinide and lanthanide chlorides, 23:35258 (INP-674)
solvent properties for actinides and rare earths, 24:20846 (CEA-R-3744)
solvent properties for actinides in hydrochloric and nitric acid solutions, 21:28050 (JAERI-1132)
solvent properties for actinium, 23:45310(P)
solvent properties for actinium, 21:34272
solvent properties for alkali metals and alkaline earths, 23:9533
solvent properties for alkali metals, alkaline earth metals, and rare earths, 21:45219
solvent properties for alkali metals, effects of 4-sec-butyl-2(α-methylbenzyl)phenol on, 22:16691
solvent properties for americium, 25:15741
solvent properties for americium, 25:44427
solvent properties for americium and curium in reprocessing of high burnup fuels, 24:9480
solvent properties for americium in nitric acid, synergism in, 21:5834 (IA-1082, pp 77-202)
solvent properties for americium, curium, neodymium, and promethium, 25:39575
solvent properties for americium, curium, scandium, and yttrium in aqueous fluoride solutions, 24:2287
solvent properties for barium, cesium, europium, sodium, and strontium, 23:19832(T) (ORNL-tr-3016)
solvent properties for berkelium and curium in hydrochloric acid, 23:357 (ORNL-4272, pp 92-128)
solvent properties for beryllium and iron, 24:270 (ORNL-4422, pp 252-71)
solvent properties for bismuth-206 and bismuth-207 from deuteron- or proton-irradiated lead, 25:29164
solvent properties for calcium and strontium, effects of diluent on, 22:45154
solvent properties for calfornium in solutions containing americium and curium, 23:35272
solvent properties for cerium, 22:2185
solvent properties for cerium, 24:9473
solvent properties for cerium, 25:15740
solvent properties for cerium, 22:42595 (UJV-1978)
solvent properties for cerium, 23:43396
solvent properties for cerium and lanthanum, 25:6380
solvent properties for cerium and molybdenum, 21:17729
solvent properties for cerium and yttrium, 22:42844
solvent properties for cerium in nitrate solutions, complex formation and oxidation in, 22:47202 (BNWL-SA-1447)
solvent properties for cerium in presence of fission products, 22:33271
solvent properties for cerium, neodymium, and samarium, 25:32068
solvent properties for cerium, promethium, and yttrium, 21:40771 (HW-64619)
solvent properties for cerium, yttrium, and zirconium, 22:27836
solvent properties for cesium, 22:16651
solvent properties for cesium, rare earths, and strontium, 21:17736(P)
solvent properties for cesium, ruthenium, strontium, and zirconium in presence of uranyl ions, 22:33271
solvent properties for einsteinium, fermium, and mendelevium, 24:2286
solvent properties for erbium, holmium, or yttrium in hydrochloric or nitric acid solutions, 25:10685
solvent properties for europium, 23:47612
solvent properties for europium, neodymium, and samarium from aqueous chloride solution, 25:57543
solvent properties for fission products, 21:45206 (ORNL-4145, pp 240-2)
solvent properties for fission products for separation from rare earth and transplutonium elements in aqueous solutions, 24:48163(P)
solvent properties for fission products for separation processes, 23:35293(P)
solvent properties for fission products in aqueous solutions, 21:4616(P)
solvent properties for fission products in process solutions, 21:39011
solvent properties for gadolinium, 23:43347
solvent properties for Group IVB to VIIB elements, rare earths, scandium, and yttrium in hydrochloric, nitric, and perchloric acids, 23:49900
solvent properties for hafnium, 23:406
solvent properties for hafnium in hydriodic, hydrobromic, and sulfuric acid solutions, 23:15935
solvent properties for heavy rare earths in aqueous hydrochloric acid solutions, 22:45157
solvent properties for hexavalent uranium in nitric acid solutions of fission products, 25:41924
solvent properties for iron in aqueous perchlorate solutions, 23:361 (ORNL-4272, pp 174-86)
solvent properties for lanthanides in hydrochloric acid solutions, distribution coefficients for, 24:11671
solvent properties for lanthanum in aqueous solutions, 24:2272
solvent properties for lanthanum in didymium chloride, 23:15955
solvent properties for manganese, 23:17354
solvent properties for metals, 23:35025 (NBS-TN-458)
solvent properties for metals from acid solutions for separation for activation analysis, 24:33
solvent properties for metals in acid solutions containing diisopropylbenzene or n-dodecane, 21:1421(R) (ORNL-3965)
solvent properties for molybdenum, 22:27836
solvent properties for molybdenum in processing solutions containing rhenium, 22:37840
solvent properties for neodymium, 23:47415
solvent properties for neodymium and samarium in aqueous solutions of chlorides, nitrates, and perchlorates, 22:21163
solvent properties for neodymium, effects of diluents on, 21:22015
solvent properties for neodymium, praseodymium, and samarium in hydrochloric acid solutions, distribution equilibria for, 24:11676
solvent properties for neodymium, praseodymium, and samarium chlorides in hydrochloric acid, 23:15869
solvent properties for neptunium and plutonium from Purex sludge solutions, 22:21154 (BNWL-583)
solvent properties for niobium and zirconium, 24:14035
solvent properties for niobium and zirconium, 22:40029
solvent properties for plutonium, 23:49915
solvent properties for plutonium and zirconium, 23:357 (ORNL-4272, pp 92-128)
solvent properties for plutonium in nitric acid solutions, 23:37878
solvent properties for plutonium in nitric acid solutions of bismuth, 23:11599 (HW-83226)
solvent properties for plutonium, effects of 2-ethylhexyl phosphate and nitrate ions on, 24:11673
solvent properties for protactinium, 25:46556
solvent properties for protactinium in hydrochloric, nitric, and sulfuric acids, 22:33493
solvent properties for radiocalcium and strontium from neutron-irradiated potassium titanium oxalate, 25:37447
solvent properties for rare earths, 21:40957 (IS-1600, Paper 2)
solvent properties for rare earths, 23:40818
solvent properties for rare earths, 23:345 (IS-1900, Paper 2)
solvent properties for rare earths, 23:28973
solvent properties for rare earths, 24:16623 (IS-2100, Sect. CE)
solvent properties for rare earths, 24:29361 (CEA-R-4004)
solvent properties for rare earths, 23:35254(T) (ANL-Trans-756)
solvent properties for rare earths, 23:49708
solvent properties for rare earths, 21:21876
solvent properties for rare earths, 23:7612
solvent properties for rare earths, 25:206 (CONF-700403-(Vol.2), pp 802-13)
solvent properties for rare earths, 25:13092
solvent properties for rare earths, 25:26338(P)
solvent properties for rare earths, 23:40808
solvent properties for rare earths, 25:26342
solvent properties for rare earths, 22:6367 (IS-T-188)
solvent properties for rare earths, 24:7494
solvent properties for rare earths, 21:32240
solvent properties for rare earths and actinides, 21:45205 (ORNL-4145, pp 208-33)
solvent properties for rare earths and strontium-90 in fission product solutions, 25:32038 (CEA-N-1419, pp 257-69)
solvent properties for rare earths in nitric acid solution, 21:13
solvent properties for rare earths in presence of yttrium in chloride solutions, 23:7601
solvent properties for rare earths, strontium-90, and yttrium in seawater, 21:36089
solvent properties for rare earths, thorium, and uranium in reversed-phase thin-layer partition chromatography, 24:16632
solvent properties for samarium, 21:25913
solvent properties for scandium in industrial liquids, 24:16631
solvent properties for strontium, antagonistic and synergistic effects of organic phosphorus compounds on, 22:42807 (BNWL-759)
solvent properties for strontium, synergistic effects of aliphatic diluent and TBP on, 22:35899
solvent properties for strontium-90 in fission products, 23:11597 (CEA-CONF-1092)
solvent properties for strontium-90 in fission product solutions, 21:17702(R) (EUR-2581.f)
solvent properties for tellurium in sulfate solutions, 25:2321
solvent properties for tetravalent uranium, 21:17637
solvent properties for thorium, 21:14300
solvent properties for thorium, 21:4604
solvent properties for thorium, 24:39025
solvent properties for thorium, 21:10287
solvent properties for thorium, 22:4247
solvent properties for thorium in cation exchange separation from rare earths, 23:398
solvent properties for thulium, 24:19067
solvent properties for thulium and ytterbium, 24:31442 (IS-T-370)
solvent properties for trace amounts of rare earths in nitric acid, effects of uranium on, 25:4150
solvent properties for transplutonium elements in aqueous solutions of citric, malic, 2-methyllactic, and tartaric acids, 24:48165
solvent properties for transplutonium elements in nitric acid solutions, 23:40800 (CEA-N-1044, pp 290-306)
solvent properties for transuranium elements, 23:49914
solvent properties for transuranium elements, 24:14030
solvent properties for trivalent actinides and rare earths, 22:16663
solvent properties for uranium, 23:28978
solvent properties for uranium, 24:36382
solvent properties for uranium as uranyl nitrate, 23:43394
solvent properties for uranium from perchloric acid solutions, 25:51591
solvent properties for uranium in aqueous nitric acid solutions, mechanism of, 22:33497
solvent properties for uranium in aqueous perchlorate solutions, 21:4598
solvent properties for uranium in nitric acid or perchloric acid solutions, 24:46198(R) (NBS-TN-508)
solvent properties for uranium in nitric acid solutions, 22:2179
solvent properties for uranium in nitric acid solutions following extraction from sulfuric acid solutions, 25:21112
solvent properties for uranium in sulfuric acid solutions, 25:21112
solvent properties for uranium, effects of diluents on, 25:51600
solvent properties for uranium(III), 24:16650
solvent properties for yttrium, 24:16647
solvent properties for yttrium in aqueous nitric acid solutions, 25:13097
solvent properties for yttrium in presence of irradiated uranium, 24:27202
solvent properties for yttrium-90, 22:30425 (AAEC/TM-421)
solvent properties for zirconium, 22:33537
solvent properties for zirconium, 25:32054
solvent properties for zirconium, 25:225
solvent properties for zirconium in nitric acid, 24:41412
solvent properties for zirconium in nitric acid solutions, 25:21089
solvent properties for zirconium in nitric acid solutions, 25:21090
solvent properties of actinides and rare earths, 23:383
strontium salt, dielectric constants for solutions of, in octane, 21:30399 (ORNL-TM-1893)
strontium salt, refractive indexes of solutions of, in octane, 21:30399 (ORNL-TM-1893)
use as active solvent in mixer-settler extraction of rare earths, 21:43088 (IS-T-199)
use as stationary phase for separation of rare earths by reverse-phase thin-layer chromatography, 23:6216
use in chromatographic separation of berkelium from cerium and californium from curium, 21:25945
use in extraction chromatographic separation of californium, einsteinium, and fermium, 23:17532
use in reversed-phase chromatographic separation of elements, 21:17700 (CISE-103)
use in separation of cerium from fission products, 21:36088
use in separation of yttrium-91 from fission products in fallout, 21:36593
use in solvent extraction chromatography separation of americium from transuranium elements, 23:2408
use of, impregnated on paper in reversed-phase partition chromatographic separation of elements, 21:151
4-sec-butyl-2-(α-methylbenzyl)phenol—bis(2-ethylhexyl) phosphate, solvent properties for fission products, 21:30526(P)
amines—bis(2-ethylhexyl) phosphate, solvent properties for cerium(III), indium, iron(III), lanthanum, thorium, and zinc, 24:20871
bis(2-ethyhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 25:2319 (ORNL-4572, pp 181-95)
bis(2-ethylhexyl) phosphate—$CeCl_3$—HCl—H_2O—$NdCl_3$—$SmCl_3$, equilibria in Amsco, 25:2311 (IS-T-412)
bis(2-ethylhexyl) phosphate—dibutyl butylphosphonate, solvent properties for lanthanide rare earths and strontium, 25:37490(P)
bis(2-ethylhexyl) phosphate—H_2O—$Nd(NO_3)_3$, complex formation in, 25:13092
bis(2-ethylhexyl) phosphate—HCl—H_2O—kerosene—$NdCl_3$—$SmCl_3$, phase studies on equilibrium in, separation factor for neodymium and samarium in, 23:17515 (IS-T-285)
bis(2-ethylhexyl) phosphate—HCl—H_2O—$NdCl_3$, phase studies on equilibrium in Amsco solutions of, separation factor for neodymium in, 23:17515 (IS-T-285)
bis(2-ethylhexyl) phosphate—HCl—H_2O—$SmCl_3$, phase studies on equilibrium in Amsco solutions of, separation factor for samarium in, 23:17515 (IS-T-285)
bis(2-ethylhexyl) phosphate—HCl—$NdCl_3$, equilibria in, 23:15869
bis(2-ethylhexyl) phosphate—HCl—$PrCl_3$, equilibria in, 23:15869
bis(2-ethylhexyl) phosphate—HCl—$SmCl_3$, equilibria in, 23:15869
bis(2-ethylhexyl) phosphate—HNO_3—H_2O—$Y(NO_3)_3$, equilibrium in, extraction, 25:13097
bis(2-ethylhexyl) phosphate—HNO_3—TBP—$UO_2(NO_3)_2$, synergism in, 24:36364
bis(2-ethylhexyl) phosphate—kerosene, solvent properties for neodymium and samarium in aqueous chloride, nitrate, and perchlorate solutions, 21:19723 (IS-T-138)
bis(2-ethylhexyl) phosphate—strontium bis(2-ethylhexyl) phosphate, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
bis(2-ethylhexyl) phosphate—TBP, dielectric constants of, in octane solution, 21:30399 (ORNL-TM-1893)
bis(2-ethylhexyl) phosphate—TBP, solvent properties for uranium, 24:9455
bis(2-ethylhexyl) phosphate—TBP, solvent properties for thorium from hydrochloric or nitric acid solutions, 23:34998

bis(2-ethylhexyl) phosphate—TBP, solvent properties for uranium, synergism in, 24:14002
bis(2-ethylhexyl) phosphate—TBP, solvent properties for thorium, 25:15738
bis(2-ethylhexyl) phosphate—trioctylamine, solvent properties of, for uranium in aqueous sulfuric acid solutions, antagonistic and synergic effects in, 21:10427
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 23:21780 (ORNL-TM-2522)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium, 24:270 (ORNL-4422, pp 252-71)
bis(2-ethylhexyl) phosphate—trioctylphosphine oxide, solvent properties for uranium in phosphoric acid solutions, 23:361 (ORNL-4272, pp 174-86)
bis(2-ethylhexyl)phosphate—tributyl phosphate, solvent properties for rare earths, 21:19756(P)
strontium bis(2-ethylhexyl) phosphate—TBP, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
PHOSPHORIC ACID, BIS(1-ISOBUTYLISOPENTYL) ESTER
solvent properties for americium, 24:20863
PHOSPHORIC ACID, BIS(OCTYLPHENYL) ESTER
solvent properties for actinium, 21:34272
solvent properties for uranium, effects of neutral organic phosphorus compounds on, 25:23682
PHOSPHORIC ACID, BIS[p-(1,1,3,3-TETRAMETHYLBUTYL)PHENYL] ESTER
solvent properties for strontium, effects of diluent and hydrogen and sodium ions on, 23:49902
PHOSPHORIC ACID, BUTYL ESTER
effects on distribution of valence forms of neptunium-239 in beta decay of uranium-239 solutions, 22:27843
effects on solvent extraction of strontium using D2EHPA, synergistic, 22:42807 (BNWL-759)
properties for use as solvent in voltammetry, 24:18878
radiolysis at low temperatures, EPR studies on free radicals produced from γ, 24:38954
reactions with zirconium during fuel reprocessing by Purex method, effects of molybdenum and sulfate on, 24:36339 (CEA-N-1241, pp 179-254)
separation of plutonium from, in TBP solvent extraction process, 22:6433(P)
solvent properties for uranium, 21:10429
solvent properties for uranium, synergic effects of trioctylphosphine oxide and TBP on, 21:28067
benzene—TBP, solvent properties for hexavalent and tetravalent uranium, 23:18259(R) (PNCT-AR-67)
butyl phosphate—trioctylamine, solvent properties for uranium in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
dodecane—TBP, solvent properties for plutonium, 23:18259(R) (PNCT-AR-67)
PHOSPHORIC ACID, BUTYLDITOLYL ESTER
effects on plasticizing of poly(vinyl chloride) for reducing uranyl nitrate penetration, 23:37968
reactions with uranyl nitrate, kinetics of, 25:48518
PHOSPHORIC ACID, CYCLIC ETHYLENE METHYL ESTER
complexes with rare earth and uranyl perchlorates, electric conductivity and ir spectra of, 24:16538
PHOSPHORIC ACID, DIBENZYL ESTER
solvent properties for hafnium and zirconium in hydrochloric, nitric, or perchloric acid, 23:49925(P)
PHOSPHORIC ACID, DIBUTYL ESTER
complexes of, distribution of, between sulfuric acid and hexane or carbon tetrachloride, 22:47216
complexes with iron or thorium, preparation of, 25:37350
complexes with plutonium(IV) and tributylphosphine oxide, formation of, in extraction systems, 21:1441
complexes with strontium, stability constant for, 24:16656
complexes with uranium(VI) and tributyl phosphate or trioctylphosphine oxide in hexane and carbon tetrachloride, formation of, 22:47217
determination by aluminum oxide column separation and spectrophotometry, 25:6258(R) (IN-1426)
determination in uranyl nitrate solutions by solvent extraction and tracer techniques, 23:28726
effects on plutonium retention in Purex Process, 24:262(T) (EURFNR-663)
effects on solvent extraction of actinides from nitric acid solutions by tridodecylamine, synergistic, 24:36344 (CEA-N-1241, pp 375-425)
effects on solvent properties of tridodecylamine for uranium, 22:27845 (CEA-N-816, pp 150-276)
hydration in solvent extraction of uranium from aqueous solutions, 21:22023
precipitation of iron in nitric acid solutions by, kinetics of, 23:7509
precipitation of iron in nitric acid, kinetics of, 22:25452 (CEA-N-616, pp 154-214)
reactions with uranyl compounds, 21:1314 (CEA-R-2882)
reactions with uranyl nitrate, ir studies of compounds formed in, 25:37340
reactions with zirconium during fuel reprocessing by Purex method, effects of molybdenum and sulfate on, 24:36339 (CEA-N-1241, pp 179-254)
separation from tributyl phosphate by adsorption by activated clay, 22:25452 (CEA-N-616, pp 154-214)
solvent properties for actinium and lanthanum, 23:26345
solvent properties for alkali metals and alkaline earths, 23:9533
solvent properties for cerium in aqueous hydrochloric, nitric, and perchloric acid solutions, 23:11612
solvent properties for hafnium, 23:406
solvent properties for hafnium in hydriodic, hydrobromic, and sulfuric acid solutions, 23:15935
solvent properties for lanthanides in acid solutions, effects of acidity and solvent concentration on, 23:49901
solvent properties for lanthanides, separations based on, 25:31811
solvent properties for plutonium in nitrate and perchlorate solutions, 21:19747
solvent properties for rare earths, thorium, and uranium in reversed-phase thin-layer partition chromatography, 24:16632
solvent properties for strontium, effects of diluents on, 22:33512
solvent properties for strontium, mechanism of, 24:16656
solvent properties for trivalent rare earths in perchlorate solutions, 21:17731
solvent properties for trivalent uranium, tracer studies on, 24:20865
solvent properties for uranium, 24:36382
solvent properties for uranium, 22:47217
solvent properties for uranium as uranyl in nitrate solutions; 24:44079
solvent properties of dibutyl phosphate for zirconium in nitrate solutions, 22:131 (AERE-R-2945)
thermodynamic activity in benzene and n-heptane, effects of n-octanol on, 21:32257
uranyl salt, preparation and composition of, 24:44079
uses in separation of cerium from fission products, 21:36088
yields from radiolysis of nitric acid solutions of TBP, 23:43384 (KFK-691)
yields from TBP radiolysis in Purex Process, 24:262(T) (EURFNR-663)
Amberlite LA-1—dibutyl phosphate, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
carbon tetrachloride—dibutyl phosphate, solvent properties for neptunium, 23:45290
carbon tetrachloride—dibutyl phosphate—H_2SO_4, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
carbon tetrachloride—dibutyl phosphate—H_2SO_4—TBP, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
carbon tetrachloride—dibutyl phosphate—H_2SO_4—trioctylphosphine oxide, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
dibutyl phosphate—didecylamine, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
dibutyl phosphate—dioctylamine, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
dibutyl phosphate—hexane—H_2SO_4, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
dibutyl phosphate—hexane—H_2SO_4—TBP, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
dibutyl phosphate—hexane—H_2SO_4—trioctylphosphine oxide, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
dibutyl phosphate—tridecylamine, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
dibutyl phosphate—trioctylamine, solvent properties of, for uranium in aqueous sulfuric acid solutions, antagonistic and synergic effects in, 21:10427
N-benzyldodecylamine—dibutyl phosphate, solvent properties for uranium(VI) in sulfuric acid solutions, antagonistic and synergic effects from, 24:16655
PHOSPHORIC ACID, DIBUTYLTOLYL ESTER
effects on plasticizing of poly(vinyl chloride) for reducing uranyl nitrate penetration, 23:37968
reactions with uranyl nitrate, kinetics of, 25:48518
PHOSPHORIC ACID, DICRESYL ESTER
solvent properties for cerium from nitrate solutions, 23:31412
solvent properties for yttrium, 24:39032
PHOSPHORIC ACID, DIDECYL ESTER
didecyl phosphate—TBP, solvent properties for dysprosium and terbium, 25:48585(P)
PHOSPHORIC ACID, DIETHYL ESTER
complexes with rare earths and thorium, stability constants for, 21:4495
complexes with uranyl ions, preparation of, 23:28841
silver salt, crystal structure of, x-ray diffraction studies of, 25:57291 (UR-49-1515)
PHOSPHORIC ACID, O,O-DIETHYL O-[3-ETHYL-4-(METHYLSULFONYL)PHENYL] ESTER
radioprotective effects of, on cholinesterase activity in brain of common-fly, γ, 22:33743
PHOSPHORIC ACID, DIHEPTYL ESTER
solvent properties for uranium as uranyl nitrate, 23:43394
PHOSPHORIC ACID, DIHEXYL ESTER
complexes with strontium, stability constant for, 24:16656
solvent properties for strontium, mechanism of, 24:16656
PHOSPHORIC ACID, DIMETHYL ESTER
complexes with rare earths and thorium, stability constants for, 21:4495
PHOSPHORIC ACID, DI-β-NAPHTHYL ESTER
solvent properties for trivalent rare earths in perchlorate solutions, 21:17731
PHOSPHORIC ACID, DIOCTYL ESTER
complexes with strontium, stability constant for, 24:16656
effects on distribution of trivalent europium in chloroform—perchloric acid—TBP systems, 21:32260
solvent properties for calcium and strontium, effects of diluent on, 22:45154
solvent properties for cerium, 23:28991
solvent properties for europium and terbium, effects of diluent on, 22:6400
solvent properties for hafnium, 23:406
solvent properties for hafnium in hydriodic, hydrobromic, and sulfuric acid solutions, 23:15935
solvent properties for niobium and zirconium, 25:8214
solvent properties for strontium, effects of diluents on, 22:33512
solvent properties for strontium, mechanism of, 24:16656
dioctyl phosphate—octyl phosphate, use in flotation method for separation of uranite from uranium ores, 23:399
PHOSPHORIC ACID, DIPENTYL ESTER
complexes with rare earths and thorium, stability constants for, 21:4495
complexes with strontium, stability constant for, 24:16656
solvent properties for hafnium, 23:406
solvent properties for hafnium in hydriodic, hydrobromic, and sulfuric acid solutions, 23:15935
solvent properties for strontium, effects of diluents on, 22:33512
solvent properties for strontium, mechanism of, 24:16656
PHOSPHORIC ACID, DIPHENYL ESTER
solvent properties of, for trivalent rare earths in perchlorate solutions, 21:17731
PHOSPHORIC ACID, DIPROPYL ESTER
complexes with rare earths and thorium, stability constants for, 21:4495
PHOSPHORIC ACID, DI-p-TOLYL ESTER
solvent properties for trivalent rare earths in perchlorate solutions, 21:17731
solvent properties for zirconium in nitric acid solutions, 22:35897
PHOSPHORIC ACID, ESTERS
dephosphorylation by thorium and zirconium ions, 21:20060
radiolysis of, review on γ, 22:25421
solvent properties for alkaline earth metals, 23:47594
solvent properties for plutonium, thorium, and uranium, 23:33258(P)
solvent properties of, for cerium, 21:12512
2,4-pentanedione—phosphoric acid ester, distribution of uranyl ions in, effects of benzene, chloroform, and cyclohexane and inorganic anions on, 22:27894
2,4-pentanedione—phosphoric acid ester, solvent properties for uranyl ions, 22:27894
PHOSPHORIC ACID, 2-ETHYLHEXYL ESTER
effects on solvent properties of bis(2-ethylhexyl) phosphate for plutonium, 24:11673
properties as stationary phase in reversed-phase chromatographic separation of metal ions, 23:35268
solvent properties for lead and scandium from perchlorate solutions, 24:19058
solvent properties for molybdenum, 23:28692
solvent properties for rare earths in nitric acid solution, 21:13
solvent properties for strontium, effects of diluents on, 22:33512
solvent properties for uranium in sulfate solutions of monazites, 23:396
PHOSPHORIC ACID, 1-ISOBUTYL-3-METHYLBUTYL ESTER
solvent properties for actinides and lanthanides, 25:34706
PHOSPHORIC ACID, METHYL DIPHENYL ESTER
complexes with uranyl nitrate, preparation and properties of solid, 24:29291
PHOSPHORIC ACID, 2-METHYL-1,4-NAPHTHALENEDIOYL DIESTER
sodium salt, effects on electron- and x-radiosensitivity of membranes of Ehrlich ascites tumor cells in cultures, 25:4568
sodium salt, effects on x-radiosensitivity of ascites tumor cells, 25:4562
PHOSPHORIC ACID, OCTYL ESTER
solvent properties for europium, 25:15742
solvent properties for rare earths, 25:206 (CONF-700403-(Vol.2), pp 802-13)
dioctyl phosphate—octyl phosphate, use in flotation method for separation of uranite from uranium ores, 23:399
PHOSPHORIC ACID, OCTYLPHENYL ESTER
solvent properties for uranium, effects of neutral organic phosphorus compounds on, 25:23682
PHOSPHORIC ACID, TRIBUTYL ESTER
activity in uranyl nitrate—water, phase studies on, 22:6404
adducts with uranyl thenoyltrifluoroacetone complexes, effects of solvents on formation of, 25:41784
adducts with uranyl-thenoyltrifluoroacetone complexes, distribution of, in various solvents, 24:16654
analysis for 1-butanol in TBP, method for gas chromatographic, 22:1962 (PG-Report-806)
analysis for impurities by absorption spectrophotometry, 21:1251 (PG-Report-737)
analysis for isobutyl phosphates, chromatographic, 21:5760 (PG-Report-755)
analysis for nitric acid by phosphorus-31 NMR, 23:26326 (KFK-867)
analysis for uranium, polarographic, 23:40536(T) (EURFNR-631)
analysis for uranium, spectrophotometric, 22:14436
analysis of normal, for isobutyl phosphates, chromatographic, 21:5760 (PG-Report-755)
analysis of solutions of, containing dodecane and kerosene decomposed by nitric acid, for carboxylic acids, group type spectroscopic, 21:42877
bibliography on uses of, in solvent extraction, 23:13825 (LS-70(Pt.2))
boiling of aqueous solutions of, 22:37823(T) (ANL-Trans-619)
complexes of, distribution of, between sulfuric acid and hexane or carbon tetrachloride, 22:47216
complexes with erbium thiocyanate, effects of diluents on stability of, 25:120

complexes with plutonium and uranium, charge transfer transitions in, 22:37745
complexes with rare earth nitrates, coordination of rare earth ions in, 23:13688 (DP-MS-67-97-X-1)
complexes with rare earth nitrates, infrared and Raman spectra of, 21:10333
complexes with rare earth nitrates, stability constants for, 23:7619
complexes with rare earth thiocyanates, effects of ionic radius and organic diluents on, 23:11485
complexes with rare earths and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione, separation of, by gas chromatography, 23:2387
complexes with tetradecylammonium bromide complexes with uranyl bromides, spectral studies on, 22:27681
complexes with TTA and uranium, NMR spectral studies on structure of, 24:2183
complexes with uranium(VI) and dibutyl phosphate in hexane and carbon tetrachloride, formation of, 22:47217
complexes with uranyl fluoride, spectra of, ir, 24:20752
complexes with uranyl fluorides in benzene solution, spectral studies on structure of, 22:16544
complexes with uranyl nitrate in presence of water in hexane, 21:147 (MCW-1435)
complexes with uranyl nitrate, hydration of, 21:22023
complexes with uranyl nitrate, recovery of uranium from, by distillation and ignition, 25:15750(P)
complexes with uranyl or thorium nitrates, molecular weights of, vapor pressure osmometric studies on, 24:4273
complexes with uranyl perchlorates, coordination spheres in, 21:27967
complexes with uranyl thiocyanates containing thiocyanate bridge groups, spectral studies on, 23:9384
complexes with uranyl, thorium, and lanthanum nitrates, dielectric constants of, 22:4133
compound formation with uranyl nitrate, polymeric, 23:43314
content in refinery solvent containing uranyl nitrate and water in hexane, 21:147 (MCW-1435)
decomposition in first Purex extraction cycle for fuel reprocessing, 22:16650(T) (ORNL-tr-1902)
decomposition in fuel reprocessing cycle, effects of zirconium on, 23:49881 (CEA-CONF-1358)
decomposition in fuel reprocessing, compounds formed in, 22:47226
decomposition in nitric acid at 35 to 75°C, 24:43995 (ORNL-TM-3062)
decomposition in separation processes, methods of routine analysis for determining, 21:1251 (PG-Report-737)
determination in aqueous phase, coulometric and mineralization methods for, 22:27846 (CEA-N-816, pp 277-323)
determination in kerosene solution by method based on organic phase splitting by perchloric acid saturation, 23:24065 (NP-17815)
determination in uranium processing solutions, equipment for, 24:44061 (CEA-N-1292, pp 29-52)
determination in uranyl nitrate solutions by solvent extraction and tracer techniques, 23:28726
dimerization of, 24:9342
disolvate formation with uranyl chloride, 25:37390
distribution of hydrochloric acid between water and, 22:42820
effectiveness of carbon tetrachloride solutions of, for decontamination of surfaces contaminated with carbon-14-labeled organic compounds, 24:46604
effectiveness of water-based foams of, for methyl iodide removal from reactor containment, 23:2059 (NYO-841-14)
effects on coprecipitation and spectrophotometric determination of uranium as dibenzoylmethane chelate, 23:26
effects on distribution of europium(III) in chloroform—chelating acid—perchloric acid system, 21:32260
effects on extraction of europium(III)—TTA chelate into carbon tetrachloride and chloroform, 21:32260
effects on polarographic determination of uranium in Purex solutions, 23:31280 (KFK-869)
effects on reactions of lanthanides with nitrate ions and water, spectral studies on, 22:45010
effects on separation of strontium from sodium solutions by solvent extraction using bis(2-ethylhexyl) phosphate, synergistic, 22:35899
effects on separation of trace amounts of scandium from rare earths by ion exchange, 23:4721
effects on solvent extraction of actinides from nitric acid solutions by tridodecylamine, synergistic, 24:36344 (CEA-N-1241, pp 375-425)
effects on solvent extraction of rare earths from aqueous solutions using diketones, synergistic, 24:29367
effects on solvent extraction of rare earths using 4,4,4-trifluoro-1-phenyl-1,3-butanedione, 22:8178
effects on solvent extraction of uranium from aqueous solutions, synergistic, 24:4370
effects on solvent properties of 2,4-pentanedione for scandium, 22:51068
effects on solvent properties of 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one for actinides and europium, 24:27220
effects on solvent properties of β-diketones for uranium, 21:36105
effects on solvent properties of dibutyl phosphate for uranium in sulfuric acid solution, 22:6401
effects on solvent properties of TTA for uranyl ions, 25:6406
effects on spectra of hydrous uranyl chloride, 21:14210
effects on synergism in solvent extraction of cesium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6394
hydration in solvent extraction of uranium from aqueous solutions, 21:22023
processing of chemically and/or radiolytically degraded, for cerium(IV) extraction, 25:37470(P)
properties as extractant in separation of thorium from monazites, 23:49926
properties for use as solvent extractant, donor, 24:16645
properties of solutions of, 23:7497 (ARH-724(Add.))
properties of system of, containing diluent, compilation of chemical and physical, 23:15831 (HW-57386)
properties of, compilation of chemical and physical, 23:15831 (HW-57386)
purification and recovery of, after fuel reprocessing, method for, 22:6434(P)
purification of, used in processing irradiated fuels, 21:12520(P)
radiation effects on, 22:40167 (KR-126, pp 120-42)
radiation effects on extraction properties of, for plutonium, 21:6008
radiation effects on ruthenium retention in, 22:16683
radiation effects on solvent performance of, 25:39562(R) (HEDL-TME-71-55)
radiation effects on solvent properties of, in Purex Process, 25:18505 (WHAN-FR-32)
radiation effects on, effects of radical-expelling compounds in reducing, 21:38993(P)
radiation effects on, ESR spectral studies on yields in γ, 22:8111(T) (AEC-tr-6908, pp 216-36)
radiation stability of, in nuclear fuel reprocessing, 22:18865 (ORNL-4212)
radioinduced decomposition in fuel reprocessing, 24:267 (ORNL-4422, pp 48-106)
radiolysis in fuel reprocessing systems, effects on extraction performance of, 24:9479
radiolysis in fuel reprocessing systems, review of, 22:18873(T) (ORNL-tr-1901)
radiolysis in nuclear fuels during solvent extraction, 23:31397 (CEA-CONF-1265)
radiolysis of, 24:9481
radiolysis of nitric acid solutions of, yields of dibutyl phosphate from α, β, and γ, 23:43384 (KFK-691)
radiolysis of, effects of aliphatic and aromatic hydrocarbons on, 21:15927
radiolysis of, effects of aromatic hydrocarbons on, 21:8384
radiolysis of, effects of hydrocarbon diluents on, 22:8185
radiolysis of, precipitation of iron and zirconium from nitric acid by products of, 23:353 (ORNL-4272, pp 34-55)
radiolysis of, yields of dibutyl phosphate from, 24:262(T) (EURFNR-663)
reactions with 2,4-pentanedione complexes of uranyl ions, products in, 22:27894
reactions with niobium and tantalum pentachloride in presence of water, study of complexes from, 23:31411
reactions with nitric acid and uranyl nitrate, equilibrium constants for, 23:13737
reactions with uranyl compounds, 21:1314 (CEA-R-2882)
reactions with uranyl nitrate, kinetics of, 25:48518
reactions with water, proton magnetic resonance studies of, 22:27860(R) (NYO-1922-43)
separation from alkyl esters of phosphoric acid by gas chromatography, 23:9301 (ORNL-4343, pp 11-23)
separation from aqueous waste concentrate solutions by sorption on bed of activated carbon, 23:40794 (BNWL-1109)
separation from degraded kerosene—TBP solutions of fission products by ion exchange, 22:21170
separation from dodecane—TBP—tridodecylamine solution using ethanol or methanol, effects of temperature on method for, 24:22723(T) (ANL-Trans-799)
separation from dodecane—TBP—tridodecylamine solution using ethanol or methanol, effects of temperature on method for, 24:11653 (CEA-N-1148, pp 183-271)
separation from sodium nitrate using stacked-clone contactor, 21:36204 (ORNL-TM-1936)
separation of actinides from solutions of, 22:37872(P)
separation of actinides from, by backwashing using nitrous acid, 22:16689
separation of dibutyl phosphate from, by adsorption by activated clay, 22:25452 (CEA-N-616, pp 154-214)
separation of fissile material from solutions of, from fuel reprocessing, 23:35302(P)
separation of plutonium from solutions of, by extraction with aqueous acidic nitrite solutions, 23:35314(P)
separation of ruthenium from, by adsorption, materials for, 22:25452 (CEA-N-616, pp 154-214)
separation of ruthenium from, by extraction chromatography using dibutyl phosphate—potassium hydroxide, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation of ruthenium from, by extraction chromatography using dibutyl phosphate—potassium hydroxide, 25:6393 (CEA-N-1341, pp 245-315)
separation of thorium and uranium from, by ion exchange, 21:36090
separation of uranium from dodecane solutions of, by solvent extraction using nitrogen dioxide, 22:27845 (CEA-N-816, pp 150-276)
solubility in nitric acid or water solutions, 22:27845 (CEA-N-816, pp 150-276)
solvation energy of aqueous uranyl chloride in, use of plutonium-239 electrode for measuring, 22:23010
solvation of cerium, thorium, and uranyl ions by, heat of, 21:17638
solvent partition between dodecane and aqueous solutions, effects of temperature on, 22:27845 (CEA-N-816, pp 150-276)
solvent properties for 6-hydroxy-5-nitro-m-toluenesulfonic acid, 25:32046
solvent properties for actinides and rare earths, 24:20846 (CEA-R-3744)
solvent properties for actinides and rare earths in nitric acid, effects of complexants on, 22:27848 (CEA-N-816, pp 359-414)
solvent properties for actinides in hydrochloric and nitric acid solutions, 21:28050 (JAERI-1132)
solvent properties for alkali metal salts, spectral studies on, 24:9343
solvent properties for alkali metals, 23:24296
solvent properties for alkaline earth β-diketonates, 24:9475
solvent properties for aluminum, iron, and promethium in presence of salicylic acid, 23:49918
solvent properties for americium and curium in presence of plutonium, 24:36342 (CEA-N-1241, pp 325-53)
solvent properties for americium and curium in Redox waste solutions, 23:337 (BNWL-CC-956)
solvent properties for americium and lanthanides, 22:37640(T) (ANL-Trans-628, pp 2-50)
solvent properties for americium, cerium, europium, effects of sodium perchlorate on, 21:1421(R) (ORNL-3965)
solvent properties for americium, europium, indium, lanthanum, lutetium, and scandium, effects of TTA on, 21:32242
solvent properties for barium, calcium, and strontium in perchloric acid solutions, 22:30675
solvent properties for bismuth, 23:9502 (BNWL-799)
solvent properties for cerium group rare earths, 25:21086
solvent properties for cerium in steel, 21:4465
solvent properties for cerium, neodymium, praseodymium, and samarium nitrates, thermochemical studies on, 22:18907
solvent properties for europium and thorium, 21:32241
solvent properties for europium complex with salicylic acid, 24:41402
solvent properties for fission products, 22:16678
solvent properties for fission products, plutonium, and uranium in irradiated reactor fuels, 22:25484
solvent properties for fission products, thorium, and uranium, 25:29198
solvent properties for gallium, 22:33223
solvent properties for gold, 25:10686
solvent properties for hafnium and zirconium chlorides and thiocyanates, kinetics of, 24:41401
solvent properties for hexavalent molybdenum, 21:14156
solvent properties for hexavalent molybdenum in hydrochloric or nitric acid solutions, 22:10350
solvent properties for hexavalent uranium or tetravalent plutonium from aqueous nitrate or nitric acid, 24:11675
solvent properties for hydrofluoric acid, effects of aluminum, uranium, and zirconium on, 24:11653 (CEA-N-1148, pp 183-271)
solvent properties for hydrofluoric acid, effects of aluminum, uranium, and zirconium on, 24:22723(T) (ANL-Trans-799)
solvent properties for impurities in aluminum, 21:45044
solvent properties for indium, lutetium, and ytterium, 21:32257
solvent properties for iron-59 and manganese-54 in irradiated iron targets, 23:21786
solvent properties for lanthanides in nitric acid solutions, 24:9466
solvent properties for lanthanum and yttrium, 23:45333
solvent properties for lanthanum nitrate, 21:8411
solvent properties for lutetium nitrate and nitric acid, 23:6199
solvent properties for manganese in aqueous solutions, 24:9447
solvent properties for metals, 22:23119
solvent properties for molybdenum, 22:45160
solvent properties for molybdenum and niobium complexes with thiocyanate, effects of diluents on, 22:1990
solvent properties for molybdenum in nitrate solutions, 24:14028
solvent properties for neodymium in aqueous nitric acid solutions, 24:9467
solvent properties for neptunium, 24:11646 (BARC-428)
solvent properties for neptunium, 25:4135 (CEA-R-4097)
solvent properties for neptunium, effects of nitrous acid on, 23:40789(T) (AEC-tr-7076, pp 108-29)
solvent properties for neptunium, neptunyl, plutonium, plutonyl, and thorium nitrates in aqueous nitric acid solutions containing uranyl nitrate, 24:14020
solvent properties for neptunium, niobium, and zirconium, 25:41901
solvent properties for neptunium, plutonium, and uranium in separation from aluminum—uranium reprocessing solutions, 25:32040 (CEA-N-1419, pp 297-330)
solvent properties for neptunium, plutonium, and uranium, 24:16649
solvent properties for neptunium(VI), effects of nitrous acid on, 24:22725(T) (ANL-Trans-801)
solvent properties for neptunium(VI), effects of nitrous acid on, 24:11656 (CEA-N-1148, pp 335-68)
solvent properties for niobium, 21:24097
solvent properties for niobium and protactinium in hydrofluoric acid—perchloric acid—sodium perchlorate mixture and perchloric acid, spectral studies on, 23:47618
solvent properties for niobium and tantalum, 22:27888
solvent properties for niobium and tantalum from hydrofluoric acid solution, 23:31410
solvent properties for niobium and tantalum from hydrochloric acid solutions, 23:31411
solvent properties for niobium and titanium in hydrochloric acid, 22:37863
solvent properties for niobium and zirconium, 22:16679
solvent properties for niobium, effects of aspartic acid, EDTA, and nitrilotriacetic acid on, 24:41408
solvent properties for niobium, plutonium, ruthenium, and zirconium, 24:36339 (CEA-N-1241, pp 179-254)
solvent properties for nitric acid and water, NMR studies on, 23:26326 (KFK-867)
solvent properties for nitric acid in aqueous solutions, effects of temperature on, 25:219 (NP-18399)
solvent properties for nitric acid solutions in mixer-settlers, 21:1442
solvent properties for nitric acid, effects of benzene, carbon tetrachloride and chloroform on, 23:15943

solvent properties for nitric acid, plutonium, and uranium, computer program for estimating distribution coefficients in, 24:11660 (ORNL-TM-2711)
solvent properties for nitric and perchloric acids, salting-out effects in, 23:28965
solvent properties for nitric, perchloric, and sulfuric acids, 23:40807
solvent properties for nitrous acid in Purex process solutions, 23:2179 (NP-17554)
solvent properties for pentavalent neptunium, 21:3150
solvent properties for perchloric and perrhenic acids, effects of benzene, carbon tetrachloride, chloroform, 1, 2-dichloroethane, 2-methylheptane, and 1,3,5-triethylbenzene on, 22:37718 (UCRL-17989, pp 181-252)
solvent properties for plutonium, 22:35891
solvent properties for plutonium, 23:47586 (KFK-990)
solvent properties for plutonium, 25:8338(P)
solvent properties for plutonium, 25:39594
solvent properties for plutonium, 23:35321(P)
solvent properties for plutonium, 23:38040
solvent properties for plutonium, 25:54713 (ORNL-4682, pp 39-79)
solvent properties for plutonium, 24:22723(T) (ANL-Trans-799)
solvent properties for plutonium, 24:11653 (CEA-N-1148, pp 183-271)
solvent properties for plutonium and uranium, 22:51046(T) (EURFNR-499)
solvent properties for plutonium and uranium, 23:19828 (KFK-839)
solvent properties for plutonium and uranium, 21:30492 (CEA-R-3206)
solvent properties for plutonium and uranium, 24:9468
solvent properties for plutonium and uranium, 23:47600
solvent properties for plutonium and uranium, 24:29365
solvent properties for plutonium and uranium, 23:31397 (CEA-CONF-1265)
solvent properties for plutonium and uranium, 21:19750
solvent properties for plutonium and uranium, 24:267 (ORNL-4422, pp 48-106)
solvent properties for plutonium and uranium, 22:25452 (CEA-N-616, pp 154-214)
solvent properties for plutonium and uranium complexes with 6-hydroxy-5-nitro-m-toluenesulfonic acid, 24:9477
solvent properties for plutonium and uranium in aqueous nitric acid solutions, 25:218 (NP-18398)
solvent properties for plutonium and uranium in fission products, calculations on, 23:11598 (CEA-CONF-1130)
solvent properties for plutonium and uranium in nitric acid solution, 24:11648 (BARC-432)
solvent properties for plutonium and uranium in nitric acid solutions, effects of nitrous acid on, 25:32042 (CEA-N-1419, pp 411-40)
solvent properties for plutonium from spent fuels, 22:23123(P)
solvent properties for plutonium in countercurrent extraction process, 22:30656(P)
solvent properties for plutonium in irradiated aluminum—plutonium fuels, 24:36340 (CEA-N-1241, pp 255-89)
solvent properties for plutonium in nitric acid, 23:353 (ORNL-4272, pp 34-55)
solvent properties for plutonium in nitric acid solutions of bismuth, 23:11599 (HW-83226)
solvent properties for plutonium in nitric acid—uranyl nitrate solutions, 23:13827 (ORNL-4348)
solvent properties for plutonium, effects of amines on, 22:16687
solvent properties for plutonium, uranium, and zirconium, effects of aluminum nitrate, nitric acid, and sodium tartrate concentrations on, 22:6409
solvent properties for polonium, 22:147
solvent properties for protactinium, 21:8414
solvent properties for protactinium, effects of acetone and alcohols on, 22:40198
solvent properties for radium complexes with CDTA, DTPA, EDTA, EGTA, HEDTA, and NTA, 23:15859
solvent properties for rare earth nitrates, 23:7614
solvent properties for rare earths, 24:9457
solvent properties for rare earths, 24:5733
solvent properties for rare earths, 25:26338(P)
solvent properties for rare earths, 23:7619
solvent properties for rare earths and actinides, 25:32043 (NP-18827)
solvent properties for rare earths and strontium-90 in fission product solutions, 25:32038 (CEA-N-1419, pp 257-69)
solvent properties for rare earths in nitric acid as function of temperature, thermodynamics of, 24:20861
solvent properties for rare earths, thorium, and uranium, 24:39031
solvent properties for rare earths, thorium, and uranium in reversed-phase thin-layer partition chromatography, 24:16632
solvent properties for rhenium, 23:38090
solvent properties for rhodium, 24:36313
solvent properties for ruthenium, 25:21130
solvent properties for ruthenium in aqueous hydrobromic and hydrochloric acid solutions, 23:49905
solvent properties for scandium, 24:29368
solvent properties for scandium, 24:9456
solvent properties for scandium, 23:13792
solvent properties for scandium in aqueous chloride solutions, 21:24099
solvent properties for scandium in hydrochloric acid solutions, 24:16641
solvent properties for separation of uranium from acid solutions, thermodynamics of, 24:29375
solvent properties for separation of uranium from aqueous nitric acid solutions, 24:39021
solvent properties for strontium, 21:30352 (PHS-999-RH-27)
solvent properties for strontium-90 in human bones, 21:25789
solvent properties for tantalum in hydrofluoric acid—perchloric acid—sodium perchlorate mixture, spectral studies on, 23:47618
solvent properties for thorium, 25:41916
solvent properties for thorium and cerium, 22:27873
solvent properties for thorium and uranium, 21:12516(P)
solvent properties for thorium and uranium in feed solutions, 22:21165
solvent properties for thorium and uranium in nitric acid solutions, 22:33489
solvent properties for thorium in cation exchange separation from rare earths, 23:398
solvent properties for thorium nitrate, 22:10334
solvent properties for thorium nitrate in presence of calcium nitrate, 22:10329
solvent properties for thorium, effects of diluents on, 24:41409
solvent properties for titanium, effects of various salting-out agents on, 23:24281
solvent properties for tungstates and uranyl compounds, 25:48580
solvent properties for uranium, 25:21087
solvent properties for uranium, 21:15865
solvent properties for uranium, 21:36078 (CEA-R-3225)
solvent properties for uranium, 22:7997
solvent properties for uranium, 25:41895 (INR-1309)
solvent properties for uranium, 21:12368
solvent properties for uranium, 21:25775
solvent properties for uranium, 22:4257
solvent properties for uranium, 24:41392 (NP-18304)
solvent properties for uranium, 25:34541
solvent properties for uranium, 22:14579(P)
solvent properties for uranium and plutonium, 22:27857 (KFK-680)
solvent properties for uranium and thorium, effects of salting-out agents on, 25:2335
solvent properties for uranium as uranyl nitrate, 23:43394
solvent properties for uranium as uranyl nitrate, 25:51580 (INR-1248)
solvent properties for uranium concentrates, 24:19047 (NLCO-1057)
solvent properties for uranium from nitric or sulfuric acid, 24:2282
solvent properties for uranium in aqueous nitric acid solutions, 22:48822
solvent properties for uranium in beneficiation of uranium concentrates, 24:46305 (NLCO-1067)
solvent properties for uranium in hydrochloric acid solutions, spectral studies on, 22:6406
solvent properties for uranium in nitric acid solutions, 21:19746
solvent properties for uranium in nitric acid solutions, 23:390
solvent properties for uranium in nitric acid solutions, calculations for, 23:13814 (CEA-CONF-1129)
solvent properties for uranium in ore concentrate, 21:4615(P)
solvent properties for uranium, automation of method using, 22:27539 (NIM-156)
solvent properties for uranium, chromatographic studies on, 25:21088
solvent properties for uranium, effects of β-diketones on, 21:32261
solvent properties for uranium, effects of DEHPA on, 24:36364
solvent properties for uranium, NMR studies on, 23:31403 (KFK-920)
solvent properties for uranium, plutonium, americium, and curium in fused salts at 180°C, 22:4255
solvent properties for uranium, review of separation methods based on, 22:4258
solvent properties for uranyl compounds, 22:42837
solvent properties for uranyl compounds, NMR studies of effects of anions on, 25:15739
solvent properties for uranyl nitrate, 21:40973
solvent properties for uranyl nitrate in aqueous solutions, 21:24083 (PEL-121(Vol.3), pp 234-43)
solvent properties for uranyl nitrate, hydrodynamic studies of, 21:43024 (UJV-1665)
solvent properties for uranyl nitrates, 21:36082 (NP-16720)
solvent properties for uranyl nitrates in aqueous solutions, 22:27885
solvent properties for water, mechanism of, 22:27612
solvent properties for yttrium, 25:51593
solvent properties for zirconium, 25:225
solvent properties for zirconium, 25:6421
solvent properties for zirconium, 25:37471
solvent properties for zirconium, 24:9481
solvent properties for zirconium in aqueous nitric acid solutions, effects of lithium chloride on, 24:39020
solvent properties for zirconium in nitric acid, 24:41412
solvent properties for zirconium in nitric acid solutions, 22:16662
solvent properties for zirconium in nitric and sulfuric acid solutions, mechanism of, 22:12419
solvent properties of, 25:57557
solvent properties of aqueous and undiluted, for nitric acid and uranyl nitrate simultaneously, 24:2268 (NP-18020)
solvent properties of TBP for molybdenum, rhenium, and tungsten in hydrochloric acid—tartaric acid solutions, 22:4246
solvent properties of, for use in process and solution chemistry, 22:6397
steam distillation of entrained solutions of, in dodecane in aqueous phase extractions, 22:27846 (CEA-N-816, pp 277-323)
use as solvent extraction in hydrochloric acid solutions, distribution studies on, 22:30676
use for determining content of strontium-89, strontium-90, and yttrium-90 in biota, food, and tissues, 24:7818
use in distributive chromatographic separation of actinium, barium, and lanthanum, 23:13850
use in reversed-phase column chromatographic separation of uranium and phosphoric acid, 23:19836
use in solvent extraction, bibliography on, 22:12401 (LS-70(Pt.1))
uses in reversed-phase thin-layer chromatographic separation of metals, 21:32230
uses in separation of cerium from fission products, 21:36088
uses in separation of neptunium in different oxidation states, 21:17726
uses of, impregnated on silica gel in thin-layer chromatographic separation of elements, 21:152
1,1,1,2,2,6,6,7,7,8,8,8-dodecafluoro-3,5-octanedione—TBP, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—TBP, solvent properties for rare earths and other metals in aqueous solutions, synergic effects in, 24:36350 (IS-T-353)
1,1,1,5,5,6,6,7,7,7-decafluoro-2,4-heptanedione—TBP, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)
1-phenyl-1,3-butanedione—TBP, solvent properties for calcium and strontium in sodium chloride media containing carbonate ions, 24:44089
2,2'-[(1,8-dihydroxy-3,6-disulfo-2,7-naphthylene)bis(azo)] dibenzenearsonic acid—TBP, analysis of solutions of, for uranium, spectrophotometric, 24:29205
4-methyl-3-penten-2-one—TBP, solvent properties for thorium in aqueous nitric acid solutions, 25:21113
6,6,7,7,8,8,8-heptafluoro-2,2-dimethyl-3,5-octanedione—TBP, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)
acetic acid—acetone—TBP, solvent properties for separation of oxidation states of sixteen elements by paper chromatography, 25:10687
acetone—TBP, reactions and thermodynamics in, 21:17619
acetone—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
$Al(NO_3)_3$—dodecane—HNO_3—TBP, plutonium distribution in, coefficients of, 24:11653 (CEA-N-1148, pp 183-271)
$Al(NO_3)_3$—dodecane—HNO_3—TBP, plutonium distribution in, coefficients of, 24:22723(T) (ANL-Trans-799)
alkanes—TBP, radiation effects on reactions of, with iodine in LMFBR fuel reprocessing, 24:11583 (ORNL-TM-2772)
alkylamines—TBP, solvent properties for thorium, effects of nitric acid on, 25:48566 (AECD/CH-13)
alkylammonium nitrates—TBP, solvent properties for europium(III), neptunium(V), and niobium from nitric acid solutions, 25:44437
benzene—dodecane—TBP, reactions and thermodynamics in, 21:17619
benzene—TBP, dielectric constants of, 24:9342
benzene—TBP, effects on electron exchange reactions between hexavalent and tetravalent uranium, 22:27736
benzene—TBP, effects on ion exchange separation of uranium isotopes, 23:13826(T) (NSJ-tr-144)
benzene—TBP, reactions and thermodynamics in, 21:17619
benzene—TBP, use in ion-exchange separation of uranium isotopes, 21:40982
benzene—TBP, use in separation of plutonium and uranium from transplutonium elements, 22:37851
benzene—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
bis(2-ethylhexyl) phosphate—HNO_3—TBP—$UO_2(NO_3)_2$, synergism in, 24:36364
bis(2-ethylhexyl) phosphate—TBP, dielectric constants of, in octane solution, 21:30399 (ORNL-TM-1893)
bis(2-ethylhexyl) phosphate—TBP, solvent properties for uranium, 24:9455
bis(2-ethylhexyl) phosphate—TBP, solvent properties for uranium, synergism in, 24:14002
bis(2-ethylhexyl) phosphate—TBP, solvent properties for thorium, 25:15738
bis(2-ethylhexyl) phosphate—TBP, solvent properties for thorium from hydrochloric or nitric acid solutions, 23:34998
bis(2-ethylhexyl)phosphate—TBP, solvent properties for rare earths, 21:19756(P)
carbon tetrachloride—dibutyl phosphate—H_2SO_4—TBP, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
carbon tetrachloride—dodecane—TBP, reactions and thermodynamics in, 21:17619
carbon tetrachloride—TBP, dielectric constants of, 24:9342
carbon tetrachloride—TBP, radiolysis of, effects of composition and water on yields from, 21:28020
carbon tetrachloride—TBP, reactions and thermodynamics in, 21:17619
carbon tetrachloride—TBP, solvent properties for neptunium, plutonium, and uranium, 24:22740
carbon tetrachloride—TBP, solvent properties for uranyl nitrate and nitric acid, competition in, 22:30674
carbon tetrachloride—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
chloroform—dodecane—TBP, reactions and thermodynamics in, 21:17619
chloroform—$HClO_4$—TBP, europium distribution in, effects of chelating acids on, 21:32260
chloroform—TBP, reactions and thermodynamics in, 21:17619
chloroform—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
CS_2—TBP, reactions and thermodynamics in, 21:17619
CS_2—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
cyclohexane—TBP, reactions and thermodynamics in, 21:17619
cyclohexane—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619

dibutyl butylphosphonate—TBP, solvent properties for praseodymium and ytterbium, 24:9460
dibutyl phosphate—hexane—H_2SO_4—TBP, distribution of dibutyl phosphate in, equilibrium constants and reactions for, 22:6401
didecyl phosphate—TBP, solvent properties for dysprosium and terbium, 25:48585(P)
diheptylphosphinic acid—TBP, solvent properties for uranium, 24:9455
diheptylphosphinic acid—TBP, solvent properties for uranium, 24:290
dioxane—TBP, reactions and thermodynamics in, 21:17619
dioxane—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
dodecane—H_2O—TBP, properties of, review on chemical and physical, 21:30392 (CEA-R-3207)
dodecane—H_2O—TBP, reactions and thermodynamics in, 21:17619
dodecane—HNO_3—H_2O—TBP—$UO_2(NO_3)_2$, complex formation in, NMR studies on, 23:31403 (KFK-920)
dodecane—HNO_3—H_2O—TBP—$UO_2(NO_3)_2$, solvent partitioning in, coefficients for, 23:15849
dodecane—HNO_3—TBP, work regions in horizontal pulse extractor for, 22:25468 (UJV-1929)
dodecane—HNO_3—TBP—$UO_2(NO_3)_2$, neptunium distribution in, coefficients for, 23:40789(T) (AEC-tr-7076, pp 108-29)
dodecane—HNO_3—TBP—$UO_2(NO_3)_2$, radiation effects on, γ, 25:6400 (ORNL-4618)
dodecane—$Pu(NO_3)_3$—TBP—$UO_2(NO_3)_2$, distribution of uranium and plutonium in, calculation of simultaneous, 24:9472
dodecane—TBP, properties of, review on chemical and physical, 21:30392 (CEA-R-3207)
dodecane—TBP, radiation effects on extraction and metal retention properties of, 25:6400 (ORNL-4618)
dodecane—TBP, radiation effects on extraction properties of, 24:9481
dodecane—TBP, radiation effects on solvent properties of, for ruthenium and zirconium in nitric acid solutions, 23:353 (ORNL-4272, pp 34-55)
dodecane—TBP, radiolysis of, effects of isopropylbiphenyl on, 25:4116
dodecane—TBP, radiolysis of, effects of nitric acid on reactor, 25:54644
dodecane—TBP, reactions with iodine, products of, 23:353 (ORNL-4272, pp 34-55)
dodecane—TBP, separation of plutonium from, by hydrogen reduction in presence of platinum catalyst, 23:353 (ORNL-4272, pp 34-55)
dodecane—TBP, separation of plutonium from, by partitioning using ferrous nitrate and hydrazine, 23:353 (ORNL-4272, pp 34-55)
dodecane—TBP, solvent properties for americium and curium in separation from fission product solutions, 25:32040 (CEA-N-1419, pp 297-330)
dodecane—TBP, solvent properties for plutonium and uranium in spent fuels, 24:48874(R) (NP-18353)
dodecane—TBP, solvent properties for ruthenium as nitrosyl complex, 25:15725 (NP-18656)
dodecane—TBP, solvent properties for uranium, 23:40787(T) (AEC-tr-7076, pp 20-72)
dodecane—TBP, solvent properties for uranium in separation from plutonium, 25:32040 (CEA-N-1419, pp 297-330)
dodecane—TBP, solvent properties for uranium-233 in presence of irradiated thorium, 23:40788(T) (AEC-tr-7076, pp 73-107)
dodecane—TBP, TBP content in solvent extraction systems of, method for measuring, 24:11654 (CEA-N-1148, pp 273-96)
dodecane—TBP—tridodecylamine, separation of TBP from, using ethanol or methanol, effects of temperature on method for, 24:11653 (CEA-N-1148, pp 183-271)
dodecane—TBP—tridodecylamine, separation of TBP from, using ethanol or methanol, effects of temperature on method for, 24:22723(T) (ANL-Trans-799)
dodecane—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
dodecane-TBP, reactions and thermodynamics in, 21:17619
ethanol—TBP, dielectric properties of, 22:4133
ethyl ether—TBP, solvent properties for thorium in aqueous nitric acid solutions, 25:21113
H_2O—TBP, distribution of sulfuric acid in, effects of temperature, diluents, and TBP concentration on, 23:13838
H_2O—TBP, mineral acid properties in, 22:154
H_2O—TBP, phase studies on mutual solubility in, as function of temperature, 22:6407
H_2O—TBP, reactions and thermodynamics in, 21:17619
H_2O—TBP, uranyl nitrate distribution in, effects of concentration difference on, 21:45137
H_2O—TBP—$UO_2(NO_3)_2$, equilibrium in hexane solution of, 21:147 (MCW-1435)
H_2O—TBP—$UO_2(NO_3)_2$, phase studies on activity coefficients of TBP in, 22:6404
H_2O—TBP—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
heptane—H_2O—TBP—$UO_2(NO_3)_2$, interfacial turbulence in, 23:430
heptane—TBP—$UO_2(NO_3)_2$, diffusion studies on, 25:41829
hexane—TBP, dielectric constants of, 24:9342
HNO_3—H_2O—$La(NO_3)_3$—$Nd(NO_3)_3$—$Pr(NO_3)_3$—$Sm(NO_3)_3$—TBP, solvent extraction cascade calculations for, computer program for, 21:6007
HNO_3—H_2O—TBP, effects of nitric acid on activity coefficients of diluents in, 22:6405
HNO_3—H_2O—TBP, equilibria in, gas chromatographic studies on effect of diluents on, 24:9470
HNO_3—H_2O—TBP, properties of, review on chemical and physical, 21:30392 (CEA-R-3207)
HNO_3—H_2O—TBP, solvent properties for cerium, lanthanum, thorium, yttrium, and zirconium nitrates, chromatographic studies on effects of diluents on, 22:6405
HNO_3—H_2O—TBP—$Th(NO_3)_4$, distribution diagrams and extraction isotherms for, 21:4599
HNO_3—H_2O—TBP—$UO_2(NO_3)_2$, effects of nitric acid on activity coefficients of diluents in, 22:6405
HNO_3—mepasin—TBP, radiolysis of, effects of additives on γ, 25:46522
HNO_3—$Pu(NO_3)_4$—TBP, phase studies on, by distribution coefficient measurements, 22:6408
HNO_3—$PuO_2(NO_3)_2$—TBP, phase studies on, by distribution coefficient measurements, 22:6408
HNO_3—TBP, analysis for water in presence of organic diluent, gas chromatographic, 24:46184
HNO_3—TBP, effects of, in Shellsol-T on stability of uranium nitrate, 21:3014 (NP-16328)
HNO_3—TBP, solvent properties for cerium, 21:5805
HNO_3—TBP, solvent properties for Pu—U, equilibrium studies on, 23:11602 (NP-17739)
HNO_3—TBP, solvent properties of rare earth elements and yttrium, 21:42945
HNO_3—TBP—$Th(NO_3)_4$, phase studies on, by distribution coefficient measurements, 22:6408
HNO_3—TBP—$UO_2(NO_3)_2$, phase studies on, by distribution coefficient measurements, 22:6408
HNO_3—TBP—$UO_2(NO_3)_2$, properties of, containing diluent, compilation of chemical and physical, 23:15831 (HW-57386)
kerosene—$NaNO_3$—TBP, flow properties of, for use in stacked-clone contactor, 21:1426 (ORNL-3995, pp 4-20)
kerosene—TBP, analysis for plutonium and uranium by solvent extraction using phosphorylated cellulose and scintillation counting, 22:39997
kerosene—TBP, analysis for thorium, method for direct potentiometric, 24:36147 (RT/CHI-(69)26)
kerosene—TBP, analysis for thorium, statistical evaluation of direct potentiometric method for, 24:36148 (RT/CHI-(70)4)
kerosene—TBP, analysis for uranium in solutions of, at liquid nitrogen temperature, luminescence method for, 22:16426
kerosene—TBP, radiolysis of, effects of nitric acid on reactor, 25:54644
kerosene—TBP, separation of fission products and their complexing agents from, ion exchange, 22:21170
kerosene—TBP, solvent properties for nitric acid in aluminum nitrate in stacked-clone contactor, 21:19725 (ORNL-4088)
kerosene—TBP, solvent properties for thorium and uranium, 21:32239
kerosene—TBP, solvent properties for uranyl nitrate in sodium nitrate in stacked-clone contactor, 21:19725 (ORNL-4088)
kerosone—TBP, solvent properties for radioactive manganese in presence of iron, 22:35898
$La(NO_3)_3$—$Pr(NO_3)_3$—TBP, exchange reactions in, NMR studies on rate of, 21:40836
mepasin—TBP, radiolysis of, effects of nitric acid on reactor, 25:54644
N-methyldidecylamine—TBP, solvent properties for thorium in aqueous nitric acid solutions, 25:21113
$NaClO_4$—TBP, solvent properties for rare earths, 22:6392
$NaNO_3$—TBP—$UO_2(NO_3)_2$, flow in stacked-clone contactors, 22:16645 (ORNL-4075, pp 4-21)
octane—TBP, dielectric constants of, 21:30399 (ORNL-TM-1893)
octane—TBP, refractive indice of, 21:30399 (ORNL-TM-1893)
$Pr(NO_3)_3$—TBP—$Th(NO_3)_4$, exchange reactions in, NMR studies on rate of, 21:40836
$Pr(NO_3)_3$—TBP—$UO_2(NO_3)_2$, exchange reactions in, NMR studies on rate of, 21:40836
Primene JMT—TBP, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)
quaternary ammonium salts—TBP, solvent properties for niobium and tantalum from solutions, 24:29377(P)
strontium bis(2-ethylhexyl) phosphate—TBP, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
strontium bis(2-ethylhexyl) phosphate—TBP, dielectric constants of solutions of, in octane, 21:30399 (ORNL-TM-1893)
TBP—1,1,1-trifluoro-2,4-pentanedione, solvent properties for rare earths and other metals in aqueous solutions, synergic effects in, 24:36350 (IS-T-353)
TBP—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for rare earths, 22:51049
TBP—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for thorium, 24:9459
TBP—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for actinium and lanthanum, 23:26345
TBP—4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)
TBP—toluene, reactions and thermodynamics in, 21:17619
TBP—toluene—$UO_2(NO_3)_2$, reactions and thermodynamics in, 21:17619
TBP—tridodecylamine, solvent properties for plutonium(IV), 24:9471
TBP—tridodecylamine, solvent properties for thorium in nitric acid, 21:2864(R) (KR-109)
TBP—tridodecylammonium nitrate, solvent properties for cerium, plutonium, and zirconium, 23:35312
TBP—tridodecylmethylammonium nitrate, solvent properties for cerium, plutonium, and zirconium, 23:35312
TBP—trioctylphosphine oxide, solvent properties for separation of uranium from aqueous solutions, NMR studies on structural effects on, 24:39023
TBP—trioctylphosphine oxide, solvent properties for thorium, effects of nitric acid on, 25:48566 (AECD/CH-13)
TBP—trioctylphosphine oxide—$UO_2(NO_3)_2$, complex formation in, NMR studies on, 24:39023
TBP—$UO_2(NO_3)_2$, exchange reactions in, NMR studies on rate of, 21:40836
TBP—$UO_2(NO_3)_2$—xylene, reactions and thermodynamics in, 21:17619
TBP—xylene, reactions and thermodynamics in, 21:17619

PHOSPHORIC ACID, TRI-sec-BUTYL ESTER
thermal decomposition of, isomeric olefin yield from, 22:18775

PHOSPHORIC ACID, TRICYCLOHEXYL ESTER
reactions with 2,4-pentanedione complexes of uranyl ions, products in, 22:27894

PHOSPHORIC ACID, TRIETHYL ESTER
effects on reduction yields from γ radiolysis of uranyl nitrate, 23:40732

PHOSPHORIC ACID, TRIMETHYL ESTER
complexes with rare earth and uranyl perchlorates, electric conductivity and ir spectra of, 24:16538
radiation effects on, ESR spectral studies on yields in γ, 21:19706
radiation effects on, ESR spectral studies on yields in γ, 22:8111(T) (AEC-tr-6908, pp 216-36)
radiolysis of frozen, ESR studies on γ, 24:38921

PHOSPHORIC ACID, 2,6,8-TRIMETHYLNONYL-
solvent properties for uranium, 21:10429

PHOSPHORIC ACID, TRIOCTYL ESTER
radioactivity of phosphorus-32-labeled, in blood, tissues, and urine following intralymphatic injection, 21:34710
solvent properties for uranium in uranyl chloride and sulfate solutions, mechanism of, 22:6399
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctyl phosphate, use in reversed-phase partition chromatography of americium, cerium, and lanthanum, 22:27876
4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—trioctyl phosphate, solvent properties for thorium and uranium in chromatographic separation, 24:25109

PHOSPHORIC ACID, TRIPHENYL ESTER
complexes with uranium, properties and spectra of, 24:11540
reactions with 2,4-pentanedione complexes of uranyl ions, products in, 22:27894

PHOSPHORIC ACID, TRIPROPYL ESTER
effects on reduction yields from γ radiolysis of uranyl nitrate, 23:40732
solvent properties for ruthenium in aqueous hydrobromic and hydrochloric acid solutions, 23:49905
solvent properties for tungstates and uranyl compounds, 25:48580

PHOSPHORIC ACID, TRIS(2-ETHYLHEXYL) ESTER
reactions with uranyl nitrate, kinetics of, 25:48518
solvent properties for perchloric and perrhenic acids, 25:6290 (UCRL-19530, pp 270-308)

PHOSPHORIC ACID, TRIS(4-METHYL-3-PENTYL) ESTER
tris(4-methyl-3-pentyl) phosphate—$UO_2(NO_3)_2$, exchange reactions in, NMR studies on rate of, 21:40836

PHOSPHORIC ACID, TRIS(3,3,3,2,2-PENTAFLUOROPROPYL) ESTER
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—tris(3,3,3,2,2-pentafluoropropyl) phosphate, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)

PHOSPHORIC ACID, TRIS(2,2,2-TRIFLUOROETHYL) ESTER
1,1,1,5,5,5-hexafluoro-2,4-pentanedione—tris(2,2,2-trifluoroethyl) phosphate, solvent properties for rare earths in aqueous acetate—chloride solutions, synergic effects in, 24:36350 (IS-T-353)

PHOSPHORIC ACID, TRITOLYL ESTER
neutron reactions with, recoil chemistry of phosphorus-32 produced in, 23:49835
radiation effects on retention of recoil phosphorus-32 in neutron-irradiated, 23:49835
solvent properties for uranium, 24:11689

PHOSPHORIC ACID, VINYL ESTER
sorptive properties of cylinders of, for uranium in acetate and nitrate solutions, kinetics of, 22:27688

PHOSPHORIC TRIAMIDE, HEXAMETHYL-
complexes with neptunium, plutonium, and protactinium tetrabromides and tetrachlorides, preparation, properties, spectra, and structure of, 24:16527
complexes with plutonium tetrabromide and uranium pentabromide, preparation and properties of, 22:37722
complexes with thorium halides or uranium halides in nitromethane, electric conductivity of, relation of composition and ionization capacity to, 25:13023
complexes with uranium pentabromide, preparation properties, spectra, and structure of, 24:16510
complexes with uranyl salts, preparation and properties of, 25:51429
polymers, radioinduced polymerization of monomers on, 24:31424
solvent properties for rare earths, 25:21101

PHOSPHORODIAMIDIC ACID, TETRAETHYL-, HEPTYL ESTER
solvent properties for scandium, thorium, and zirconium in perchloric acid, 25:6420

PHOSPHORODIAMIDIC ACID, TETRAETHYL-, HEXYL ESTER
separation of scandium, thorium, and zirconium from solutions of, by solvent extraction using heptyltetraethylphosphorodiamidate in presence of thiocyanate ion in benzene, 25:6420
solvent properties for zirconium in hydrochloric acid solutions, 23:47622

Phosphorite
see Phosphate Rocks

PHOSPHORODIFLUORIDATES
hydrolysis of, catalytic effects of metal salts and acids on, 25:18373

PHOSPHORODIFLUORIDODITHIOIC ACID
  preparation and properties of normal and deuterated, 23:2280
  spectra of, effects of deuterium on ir and Raman, 23:2280
PHOSPHORODISELENOIC ACID, O,O-DIETHYL ESTER
  complexes with non-transition elements, ir spectral studies on bonding in, 23:17307(R) (ORO-2733-18)
PHOSPHORODITHIOIC ACID, BIS(HEPTYLPHENYL) ESTER
  use in reversed-phase partition paper chromatography, 21:30347 (IS-T-144)
PHOSPHORODITHIOIC ACID, DIBENZYL ESTER
  potassium salt, crystal structure of, x-ray diffraction studies of, 25:57291 (UR-49-1515)
PHOSPHORODITHIOIC ACID, O,O,S-TRIBUTYL ESTER
  solvent properties for molybdenum in hydrochloric acid solutions, 24:44075
PHOSPHORODITHIOIC ACID, DIETHYL ESTER
  complexes with cesium, stability of, 21:35913(R) (COO-1087-104)
  sodium salt, solvent properties for silver, 22:37682
PHOSPHORODITHIOIC ACID, DIISOOCTYL ESTER
  sodium salt, use in reversed-phase partition paper chromatography, 21:30347 (IS-T-144)
PHOSPHORODITHIOIC ACID, O,O-DIMETHYL ESTER S-ESTER
  with 2-mercapto-N-methylacetamide, poly-, synthesis of, containing cystamine residues, 21:10985
PHOSPHORODITHIOIC ACID, ESTERS
  solvent properties for tellurium in sulfate solutions, 25:2321
PHOSPHORODITHIOIC ACID, O,O,S-TRIETHYL ESTER
  solvent properties for molybdenum, 24:9454
PHOSPHORODITHIOIC ACID, O,O,S-TRIPROPYL ESTER
  solvent properties for molybdenum, 23:38091
PHOSPHOROFLUORIDATES
  hydrolysis of, catalytic effects of metal salts and acids on, 25:18373
Phosphorofluoridic Acid
    see Fluorophosphoric Acid
PHOSPHOROMETERS
  operation for analysis of body fluids, 24:5576 (ORNL-TM-2593)
PHOSPHOROTHIOIC ACID
    (H_3PO_3S)
  alkyl-substituted, radioprotective properties and structure of, 21:10348
  aminoethyl ester, radioprotective effects of, on mice, combined effects of S-ethylisothiourea on x, 23:2888
  radioprotective effects of AET derivatives of, on mice, evaluation of, 22:19396
  radioprotective effects of derivatives of, on mice, x, 22:45629
  radioprotective effects of organic derivatives of, on mice, γ and x, 23:50640
  radioprotective effects of, on mice, x, 24:25576
  reactions of, with 3-amino-2-bromo-1-propanol, 1-amino-3-chloro-2-propanol, and 2-methylaziridine, properties and structure of radioprotective compounds formed by, 21:10348
  s-(2-aminoethyl), sodium hydrogen salt, effects on cats, pharmacological, 23:29572(R) (NYO-2192-12)
  sodium salt, radioprotective effects of, on mice, effects of dose fractionation on, 22:49384
PHOSPHOROTHIOIC ACID, S-(2-AMINOETHYL) ESTER
  distribution and metabolism in tissues of mice, phosphorus-32 and sulfur-35 double tracer study of, 25:26805
  effects on content of MEA in urine from irradiated rat, 25:44755
  effects on content of non-protein thiols in urine of irradiated rats, 25:42671
  effects on sensitivity of guinea pigs and mice to transverse acceleration, 25:55264
  radioprotective effects of, on hematopoietic tissue formation in spleen of inbred and noninbred γ-irradiated mice as compared to mexamine, 25:11099
  radioprotective effects of, on M-1 sarcoma cells, comparison of effects of single and fractionated dose, 25:32439
  radioprotective effects of, on mice, x, 25:44839
  radioprotective effects on mice in relation to metabolism and tissue distribution, mechanism of, 25:26805
  radioprotective effects on muscles and spleen of mice, effects of increased atmospheric pressure on γ, 25:29550
  sodium salt, radioprotective effects of, on mouse tumor cells, biochemical studies on x, 25:42525
  sodium salt, radioprotective effects of, on survival of skin transplants in mice, effects of dose on x, 25:13479
  sodium salt, radioprotective effects on survival of mice, 22:25899
PHOSPHOROTHIOIC ACID, S-2-(3-AMINOPROPYLAMINO)ETHYL ESTER
  radioprotective effects of, alone or in combination with massive saline therapy on mice, lethal whole-body γ and x, 24:41912
  radioprotective effects of, in combination with cystamine and PAPP on mice, effects of methemoglobin content on, 24:50956
  radioprotective effects of, on life span of mice, 25:21857
  radioprotective effects of, on mice in relation to hypothermia, 24:12109
  radioprotective effects of, on mice, γ and x, 24:741
  radioprotective effects of, on mice, x, 24:14518
  radioprotective effects of, on mice, x, 24:25576
  radioprotective effects of, on mouse tumor cells, biochemical studies on x, 25:42525
  radioprotective effects on gastrointestinal tract of mice, effects of strain on x, 25:55259
  radioprotective efficiency in mice, biological factors in, 25:26796
  sodium salt, pharmacological effects on cats, 24:23236(R) (NYO-2192-13)
  sodium salt, radioprotective effect of, on mice, effects of gutimine on, 24:17062
  sodium salt, radioprotective effects of, on mice, 24:17063
  sodium salt, radioprotective effects on animals, neutron, 24:12110
  toxicity to mice in comparison with cystamine and cysteamine, 24:17063
PHOSPHOROTHIOIC ACID, O-(4-BROMO-2,5-DICHLOROPHENYL) O,O-DIMETHYL ESTER
  radioinduced preparation of bromine-82-labeled, neutron, 23:45328
PHOSPHOROTHIOIC ACID, DI-n-BUTYL ESTER
  use in reversed-phase partition paper chromatography, 21:30347 (IS-T-144)
  use in separation of thallium from other elements, 23:4535
PHOSPHOROTHIOIC ACID, O,O-DIETHYL O-[4-(METHYLTHIO)-3,5-XYLYL] ESTER
  metabolism of sulfur-35-labeled, by calves, 22:33741
Phosphorothioic Acid, O,O-Diethyl O-(p-Nitrophenyl) Ester
    see Parathion
PHOSPHOROTHIOIC ACID, O,O-DIMETHYL O-[4-(METHYLTHIO)-m-TOLYL] ESTER
  metabolism of sulfur-35-labeled, by insects, 22:33741
Phosphorothioic Acid, O,O-Dimethyl O-p-Nitrophenyl Ester
    see Methyl Parathion
PHOSPHOROTHIOIC ACID, TRITOLYL ESTER
  neutron reactions with, recoil chemistry of phosphorus-32 produced in, 23:49835
  radiation effects on retention of recoil phosphorus-32 in neutron-irradiated, 23:49835
PHOSPHOROTRITHIOUS ACID, TRIMETHYL ESTER
  formation by γ-induced reaction of white phosphorus and dimethyl sulfide, 22:37784
PHOSPHOROUS ACID
    see also Hypophosphorous Acid
  radiation effects on, condensation and oxidation in γ, 23:31383
  yields of recoils of phosphorus-32-labeled, in neutron irradiation of alkali salts of phosphoric esters of fructose, galactose, and glucose, 23:256
PHOSPHOROUS ACID, ALKYL ESTERS
  complexes with hexafluorocyclobutene, radioinduced production of, 23:6166(P)
  radioinduced oxidation of, review on, 22:25421
  radiolysis of, products from, 24:11602
PHOSPHOROUS ACID, DIMETHYL ESTER
  radiation effects on, ESR spectral studies on yields in γ, 21:19706
  radiation effects on, ESR spectral studies on yields in γ, 22:8111(T) (AEC-tr-6908, pp 216-36)
  radiation effects on, ESR spectral studies on yields from γ, 25:130(R) (ORO-2968-56)
PHOSPHORUS ACID, TRIBUTYL ESTER
  solvent properties for ruthenium in aqueous hydrobromic and hydrochloric acid solutions, 23:49905
PHOSPHOROUS ACID, TRIMETHYL ESTER
  radiation effects on, ESR spectral studies on yields from γ, 25:130(R) (ORO-2968-56)
  radiation effects on, ESR spectral studies on yields in γ, 21:19706
  radiation effects on, ESR spectral studies on yields in γ, 22:8111(T) (AEC-tr-6908, pp 216-36)
PHOSPHOROUS ACID, TRIPHENYL ESTER
  effects on distribution of products from γ-radiolysis of poly(methyl methacrylate), 24:13966
  effects on radiation effects on poly(methyl methacrylate), mechanism of, 22:16587
PHOSPHORS
    (For phosphors mounted as part of a radiation detection system, see Radiation Detectors, Scintillation or Radiation Detectors, Luminescent.)
    see also Acetylene, Diphenyl-
    see also Anthracene
    see also Cadmium Sulfides
    see also Cadmium Tungstates
    see also Calcium Tungstates
    see also Cesium Iodides
    see also Lithium Iodides
    see also Luminescence
    see also Naphthalene
    see also Oxazole, 2,5-Diphenyl-
    see also Oxazole, 2,2'-p-Phenylenebis[5-phenyl-
    see also Phosphorescence
    see also Potassium Iodides
    see also Ouaterphenyl
    see also Sodium Iodides
    see also Terphenyl
    see also Zinc Sulfides
  alpha—proton discrimination characteristics of NE 213, 21:43256
  analysis for chlorine and sulfur by instrumental neutron activation, 24:41231
  analysis of europium-activated yttrium vanadate for europium by spectrophotometry, 23:7479
  analysis of rare earth-activated, for rare earths, 22:18703
  backscattering effect in beta spectroscopy, method for elimination of, 21:26164
  book: Materials of High Vacuum Technology. Vol. 3. Auxiliary Materials, 23:31513
  book: Organic Scintillators and Liquid Scintillation Counting, 25:32234
  carbon dioxide diffusivity and solubility in NE102 plastic, effects on detection of beta particles, 21:45382
  cathodoluminescence of rare earth-activated yttrium oxide, 22:22996 (CONF-670502-, pp 271-82)
  charge-transfer exciton state, ionic energy levels, and delayed fluorescence in anthracene and naphthacene, 23:2288
  charged-particle ionization energy loss in plastic, density effect and shell corrections to rate of, 25:48936
  coatings for, preparation of protective polymer, 22:10568(P)
  collection yield of cylindrical liquid, for photons, 22:6593
  composition and properties of plastic, 21:41228
  conference on organic, 23:2618
  cosmic shower photography in large area layers of plastic, image brightness intensifiers for, 23:16089 (N-68-34489)
  decay times of, light pulse generators for studying, 22:38018
  deexcitation of, effects of strong electric field on, 22:36035(T) (SLAC-Trans-85)
  deposition on bulb interior surfaces for β-activated luminescent light sources, 21:36286(P)
  description of gallium-activated zinc oxide, for detecting alpha particles, 22:28100
  description of plastic, with increased transparency, 23:45528
  design of radioisotope-activated, for use as photometer light source, 22:51269(P)
  development of mixed, for detection of thermal neutrons, 22:28126(P)
  development of organic gel, for scintillation detectors, 25:18687(P)
  development of plastic, for carbon-14-labeled carbon dioxide counting, 21:4457
  development of secondary, for liquid scintillation counting, 21:17953(R) (NYO-2085-10)
  development of temperature-stable, based on isotactic polystyrene, 23:31532
  effects of Triton X on counting efficiency of weak-beta-emitting radioisotopes, 23:9306 (ORNL-4343, pp 62-84)
  efficiency for counting of carbon dioxide in in vitro metabolic systems, effects of organic carbon dioxide absorbers or KOH on, 23:43653
  efficiency of alcohol-hyamine-xylene mixture as, for counting tritium β in biological solutions, 23:50537
  efficiency of cylindrical scintillation crystal of, computer program for determining, 21:277 (SFL-A-5)
  efficiency of frozen, in radiochromatographic detection of tritium, 24:11454
  efficiency of insoluble beads of cerium—lithium glass, for activity measurements of effluents in column chromatography, 23:26538
  efficiency of liquid, for counting carbon-14-labeled-melanin, 22:37688
  efficiency of liquid, for radiation detection, 21:45424
  efficiency of liquid, in determination of carbon-14, sulfur-35, and tritium, 21:35891
  efficiency of liquid, measurements of, 23:17103(R) (ANL-7481)
  efficiency of NE-213 organic, for detecting 2.7- and 14.5-MeV neutrons, 22:23295
  efficiency of plastic, 21:38982
  efficiency of plastic, for fast neutrons, 21:8601
  efficiency of, used with glass-fiber or membrane filters, comparison of, 21:15872
  electron reactions with organic and inorganic, energy losses in, 22:45290
  energy degradation in organic liquid, temperature effects on, 22:40416
  energy transfer and quenching in plastic, 23:2612
  energy transfer in liquid organic, 23:35079
  energy transfer of, in γ-irradiated benzene—methanol solutions, 21:1389
  energy transfer to, 24:16608
  evaluation of organic, for gamma and neutron dosimetry, 23:9939 (ORNL-4316, pp 231-69)
  excitation and energy transfer in rare earth-activated, review, 25:7147
  excitation of organic, by krypton-85 or tritium in self luminous light source, 23:9661(P)
  exo-electron emission from manganese- and lead-activated calcium sulfate, radioinduced, 24:48328
  fabrication of thallium-activated potassium iodide, for gamma spectroscopy, 22:28133 (NP-17352)
  fluorescence and scintillation properties of oxazoles, oxadiazoles, and pyrazolines, 23:2599
  fluorescence decay of organic, 23:2610
  fluorescence decay times of two Davydov components in naphthalene crystal, 23:2606
  fluorescence intensities in delayed and total emission spectra of pyrene in ethanol, analysis in terms of triplet—triplet annihilation of, 23:2289
  fluorescence of yttrium europium vanadate, effects of temperature on, 22:38632
  fluorescence of yttrium vanadate, effects of temperature on, 22:38632
  fluorescence processes in cyclohexane—phosphor systems, 23:2290
  fluorescence properties of gamma- and ultraviolet-excited liquid, up to 250°K above room temperature, 23:2605
  fluorescence quenching of unsubstituted and substituted anthracene, in solvents, 23:2617
  fluorescence rise and decay times of aromatic compound, 23:2608
  fluorescence spectra of terbium ion-activated inorganic, 22:5448
  fluorescence yield and spectrum of uv-excited pure and doped polystyrene, 23:2615
  fluorescence yield as function of concentration of organic, in solution, validity of Perrin's equation for solute quenching for determining, 23:2611
  gamma ray image characteristics in slabs of sodium iodide, Monte Carlo calculation of, 23:29198
  gamma response functions for liquid NE 213 organic, Monte Carlo calculations of, 23:7281(R) (ORNL-4280)
  gamma response of liquid, (E), 22:5809(R) (ANL-7354)
  gamma response of MEL 150-C and NE 102, effects of peak dose rate on nonlinear, 22:4425 (EGG-1183-2158)
  grain size analysis of, use of radioisotopes for, 23:12323

ionization processes in electron-excitated, model for, 23: 2585
krypton diffusion in polyvinyltoluene, 22:25640
light absorption coefficients of plastic, use of theory of light diffusion for determining, 21:22164
light absorption properties of polystyrene, 23:31531
light attenuation characteristics of plastic, for use in large-area charged particle detectors, 23:16119
light flashes in liquid, use of decaying electric field for quenching of, 22:40360 (JINR-P13-3894)
light intensity measurements for organic, time-dependent, 23:17103(R) (ANL-7481)
light output measurement of NE 102 and NE 421, under neutron radiographic conditions, 23:14112
light output of argon, effect of impurities on, 22:12589
light output of crystal, plastic, and organic, 22:40414
light output of NE-213, for proton detection, 22:16888
light output of silver-activated zinc sulfide, excited by alpha particles and photons, energy dependence of, 23: 13999
light output vs proton energy loss of plastic NE-102, 21: 8607
light pipe for thin large area, design of, 21:10662
light pipes for plastic, light conduction measurements of, 21:39224
light pulses from, technique for measuring output and decay time vs wavelength for, 24:39230
light transmission coefficient for, with incomplete optical contact, 23:45529
light transport efficiency of, computer program for analyzing, 22:21319 (UUIP-568)
light yield of gaseous, 24:19213
light yield of plastic, of cylindrical and rectangular parallelpiped shapes, 22:36068
linear resolution in long fluorescent rods, 23:50686
luminescence and storage capacity of calcium sulfate—manganese, 22:4076
luminescence and thermoluminescence of zirconium-activated strontium sulfide, kinetics of, 25:42062
luminescence decay measurements of, pulser for radiation source for, 25:21479
luminescence decay of, methods for measuring, 21: 28198 (BMwF-FBK-67-17)
luminescence decay times of ultraviolet-excited solutions of, 22:28110
luminescence degradation in activated plastic, uv, 25: 8582
luminescence from particle interactions at low MeV energies, 21:826
luminescence of CaSO$_4$:Mn, x-ray-induced, (E), 23: 36787(T) (AEC-tr-6869/7, pp 1181-3)
luminescence of hexagonal and cubic zinc sulfide—copper powders, after proton excitation, 23:47913
luminescence of large-area plastic, measurement of non-uniform, 21:39224
luminescence of oxy-, research on, 23:27703
luminescence properties of polystyrene, 23:31531
luminescence spectra of electron-excited, equipment for measuring, 23:2585
luminescent light decoupling from conical and cylindrical, calculations of, 22:23269
luminescent properties of rare earth, 22:40413
meson (μ) ionization energy loss at 0.3 to 120 GeV/c in plastic, cosmic, (E/T), 22:48211
meson (μ^+) depolarization in plastics, in magnetic fields, (E), 23:30320
muonium behavior in plastic, 21:31246
neutron detection processes in plastic, DETEC computer program for simulation of fast, 21:10653
neutron pulse-height response in anthracene, direction-sensitive effects in, 23:39941(R) (NP-17890)
neutron response of organic, linear accelerator measurements of fast, 21:12629 (EGG-1183-2100)
neutron scattering in lithium-6-bearing glass, multiple fast, (T), 21:3291
neutron scattering in organic, calculation of delayed coincidence line shapes for pulse height distributions from elastic monoenergetic, 21:10628
optical coupling of plastic, to 5-inch photomultiplier tubes, 21:24267
optical homogeneity of thallium-activated cesium iodides and sodium iodides, 22:38003
performance of calcium sulfate film, for thermoluminescent dosimetry, 23:933(R) (NIRS-6)
performance of europium-activated yttrium orthovanadate, for display of particle beams, 23:23581
performance of liquid, for scintillation beta spectroscopy, 24:25255 (AD-689453)
performance of organic, in whole-body counter, 21: 32386
performance of polystyrene-based, effects of age on, 24: 27367
performance of rare earth oxysulfide, for medical x-ray image intensifier tubes, 24:39243
performance of rare earth oxysulfide, for x-ray image intensifiers, 24:39244
performance of toluene in presence of water as, effects of dioxane and naphthalene on, 22:22952
phosphorescence decay of tin- and thorium-activated calcium oxide, 22:91
photon emission from NE224, intensity of, 21:3243 (EGG-1183-2122)
photon production in liquid, volume distribution of, 21: 17839
photon reactions with, evaluation of upper energy of electrons during Compton scattering in, 22:36062
positron annihilation in Naton, decay lifetime correlation with angular distribution from, (E), 21:27013
positron annihilation in plastic NE102, electron momenta determination from, (E), 24:45010
preparation and fluorescence spectra of promethium-147-excited europium—rare earth compounds, 25:33063
preparation and light yield of, based on machine oils, 23:11764
preparation and performance of manganese-activated lithium borate, for thermoluminescent dosimetry, 22: 14856
preparation and testing of trans-1,2-diarylethylene, in toluene at various concentrations, 23:2600
preparation of chalcogenide-dominated, 21:12434(P)
preparation of krypton-85 excited, 21:28170(R) (NYO-2757-6)
preparation of layers of organic, 22:36064
preparation of liquid scintillation mixtures for measurement of carbon-14 and tritium samples, 22: 33274
preparation of liquid, for scintillation determination of carbon-14 and tritium, 23:21659
preparation of oxadiazole and oxazole, 23:31526(P)
preparation of plastic, 22:18802(P)
preparation of plastic, based on cross-linked epoxy resins, 23:2602
preparation of plastic-based, for radiation detection, 23: 129(P)
preparation of polycrystalline layers of, 22:36064
preparation of radiation-resistant chromium-activated aluminum oxide, 23:50121 (UCRL-19270)
preparation of rare earth-activated alkali uranyl phosphate, 25:48503(P)
preparation of self-luminescent, 22:21083(P)
preparation of thermal neutron detection, based on mixture of lithium-6 fluorides, ZnS(Ag), and polyethylenes, 21:32398
preparation of thermodynamically stable mixtures of liquid, for scintillation detectors, 25:32217(P)
preparation of uranium-activated barium pyrophosphate, 24:14367(P)
preparation of uranium-activated rubidium fluoride, 23: 6113
properties for fluoroscopes, 24:36655
properties for imaging in neutron radiography, 23:29110
properties for use in detection of weak beta emitters, effects of dissolved gases on, 23:26189
properties of, 21:14435 (NP-16534)
properties of oxygen-doped zinc telluride, 22:40428
properties of plastic, 21:38982
properties of rare earth, chemical and physical, 22:40413
properties of supercooled molten organic, 22:4188
properties of tellurium-doped cadmium sulfide, 22:40428
properties of, containing admixtures for tritium determination by thin-layer chromatography using electron-induced luminescence, 24:18903
pulse height and pulse shape characteristics of anthracene, trans-stilbene, and p-quaterphenyl, effects of zone refining on, 23:29170
pulse height distribution curve for plastic, Birk's formula for explaining high-energy portion of, 21:14471 (CONF-660221-, pp 339-44)
pulse shape discrimination parameters for anthracene, NE 213, and stilbene, use of zero cross-over technique for measuring, 22:36047
purification of rare earth, by precipitation of cerium and thorium impurities as iodates, 25:54749(P)
quantum efficiency of argon, krypton, and neon, for x-ray detection, 22:28112
quenching factor of liquid, relative, (T), 21:45383
quenching in liquid, comparison to photosensitivity of biological systems due to energy transfer processes, 22:8350
quenching in loaded liquid, elimination by dimethyl- and methyl-naphthalene, 23:50149
quenching measurements on liquid organic, 23:2607
quenching of monomer fluorescence by acetyl at 28°C of benzene, as function of dilution with hexane and cyclohexane, 23:2616
quenching of organic, by metalloorganic compounds, review on, 23:49830
quenching properties of alcohols in solutions with, 23: 2597
quenching properties of, in toluene, use of scintillation counting for determining, 23:21978
radiation absorption calculations for rare earth, gamma- and x-ray, 22:40413
radiation damage in plastic NE 102A, 4- to 10-keV electron, 22:16967
radiation damage to plastic, for beta detection, 22:10561
radiation effects on organic, gamma, 21:28334
radiation effects on thermoluminescent response of lithium fluoride, γ and x, 22:25373 (COO-1105-119)
radiation effects on, uv and x, 23:226
radioinduced acoustic cavitation in liquid, time correlation with incident radiation, 25:23761 (AD-711286)
radioinduced aging in cathode-ray tubes, evidence for decompositional mechanism of, 21:29387
radioinduced energy states in, infrared-stimulated de-excitation of, 22:9422 (EGG-1183-2151)
radioinduced energy storage of CaSO$_4$:Mn, x-, (E), 23: 36787(T) (AEC-tr-6869/7, pp 1181-3)
radioinduced fluorescence of, fading of alpha, gamma, and proton, 21:12646(T) (ANL-Trans-417)
radioinduced ionization in, mechanisms of, 23:7102(R) (NYO-2962-7)
radioinduced luminescence in cyclohexane, effects of various solutes on γ, 22:27759
radioinduced luminescence in organic, kinetics of prompt and delayed components of, 22:25654
radioinduced luminescence in thallium-activated sodium iodide, at 5 to 80°K, 22:40422
radioinduced luminescence of crystal, mechanism of ion, (T), 24:24126
radioinduced luminescence of nickel-, silver-, and copper-activated sodium chloride, irradiation time dependence of x, 22:23271
radioinduced luminescence of organic, decay curves for alpha, gamma, and ultraviolet, 21:6270
radioinduced luminescence of plastic, γ, 22:4187
radioinduced luminescence of solutions of liquid, effects of electric fields on γ, 23:40687
radioinduced luminescence of thallium-activated cesium iodide, effects of excitation intensity on electron-pulse, (E), 22:34768
radioinduced luminescence of, pulsed x, 21:16179
radioinduced scintillation processes in gaseous, 23:24448
radioinduced scintillations in liquid, effect of electric field on, 23:2581
radioinduced scintillations in organic, electron, 22:40417
radioinduced scintillations in organic, kinetic study of fast component of, 22:11495(T) (UCRL-Trans-10166)
radioinduced scintillations in plastic and stilbene, time dependence of gamma and neutron, 22:40415
radioinduced scintillations in plastic, method for measuring luminosity of, 22:40432
radioinduced thermoluminescence in europium- and dysprosium-activated yttrium oxide, gamma, 23:2677
radioluminescence decay of organic, 25:37602
radioluminescence of benzene solutions of, methanol quenching of, 21:23991
response of heavy-ion-bombarded zinc oxide—zinc, to energetic ion beams, 23:47912
response of NE213 organic liquid, for neutron detection at 0.3 to 3.8 MeV, 22:12581
response of organic, to alpha particles, electrons, and protons, 21:46643(R) (ORNL-4134)
response of organic, to fast neutrons, 23:1821(R) (COO-1549-10)
response of plastic, for electron detection, 22:16870
response of plastic, for fast neutron detection, 22:2407
response of plastic, to fast neutrons, 21:14471 (CONF-660221-, pp 339-44)
response of thallium-activated sodium iodide to helium-4 and oxygen-16 ions, channeling effects on, 24:44379
response of, to thermal neutrons, factors affecting, 21: 4809
response to heavy ions at 1 to 10 MeV, theory of, 22: 31952
safety of organic liquid, in scintillation whole-body counters, 22:33654
scintillation characteristics of vacuum-deposited thallium-activated cesium iodide and sodium iodide, 22:19100 (UCRL-70773)
scintillation decay characteristics of fast organic, delayed coincidence method for, 21:1619
scintillation decay time of cone-shaped, 21:39247
scintillation decay time of crystal, plastic, and organic, 22:40414
scintillation decay time of organic, 21:28234
scintillation decay times of electron-excited, organic, 22: 40417
scintillation decay times of liquid organic, measurement of, 21:6196 (EGG-1183-2097)
scintillation decay times of thallium-activated cesium iodide and sodium iodide, use of simulated photomultiplier pulses for measuring, 22:36048
scintillation decay times of, system for measuring, 21: 4690 (ORO-3349-2)
scintillation efficiency for 1.0- to 5.15-MeV alpha particles, 21:28245
scintillation efficiency of 4,4'''-bis-(2-butyloctyloxy-p-quaterphenyl), 23:2603
scintillation efficiency of benzene—p-terphenyl, 23:2614
scintillation efficiency of oxadiazole and oxazole, 23: 31526(P)
scintillation efficiency of p-oligophenylene, 23:2601
scintillation efficiency of plastic, for 1.3-MeV protons and 0.624-MeV electrons, 22:36061
scintillation efficiency of plastic, use of theory of light diffusion for determining, 21:22164
scintillation efficiency of some trans-1,2-diarylethylenes, steric effects of methyl group on, 23:2600
scintillation lifetime measurements of, spectrometer for subnanosecond, 25:18696
scintillation light distribution from gamma camera, 21: 10620
scintillation light yield of alpha- and electron-stimulated anthracene, 23:26524
scintillation measurements at very high solute concentrations of liquid organic, self quenching structure correlations from, 23:2598
scintillation process in thallium-doped sodium iodide and potassium iodide crystals, photon studies of electron/hole- and exciton-induced, 23:45519
scintillation processes in inorganic, 23:21938(R) (NYO-3408-33)
scintillation properties of plastic, effects of organic halogen compounds on, 21:21939
scintillation pulse amplitude and duration of organic liquid, 21:22151
scintillation pulse shape in gamma-excited thallium-activated sodium iodide, effects of thallium concentration and temperature on, 22:40421
scintillation pulses from, method for identifying radiations from components of, 21:32382(T) (AEC-tr-6719, pp 109-10)
scintillation quenching in liquid, device for simulating, 24:14281(P)
scintillation response anisotropy of anthracene, to neutron-generated recoil protons and carbon ions, 22: 40418
scintillation response of thallium-activated sodium iodide, 22:30845
scintillation response to recoil protons generated in stilbene, 22:40419
scintillation spectra in, method for determining optical, 23:2587
self-absorption in, 21:22364(R) (BNWL-235-2)
sensitivity of boron-containing polystyrene, for neutron detection, 23:31531
sensitivity of plastic, to beta particles and gamma radiation, 21:41228
separation of fatty acids from liquid, by solvent extraction, 22:10188
separation of iodine-131 from aqueous solutions of, by isotopic exchange, 24:18908
shielding of inorganic, from space radiation, 25:21506
size estimation of, for single-crystal fast-neutron spectrometers, 21:32383(T) (AEC-tr-6719, pp 111-12)
solutes for, in liquid scintillation counting, selection of, 21:24200
solvent for organic, use of 2-ethyl naphthalene as, 21: 17860

solvent—solvent energy migration in liquid, 23:2616
sorption of labeled aqueous solutions in, of flow-through scintillation detectors, 23:624
spectra of tin- and thorium-activated calcium oxide, emission band, 22:92
specular reflection in, with frustum geometry, 21:32474
testing of borazine and borazarene derivatives as, for detection of thermal neutrons, 22:37974 (CNEA-206)
thermoconductivity of inorganic photoconducting, model for, 21:26217 (CONF-650637-, pp 57-73)
thermoluminescence of inorganic photoconducting, model for, 21:26217 (CONF-650637-, pp 57-73)
thermoluminescence of, heating rate controller for studying, 23:4844
toxicity of thermoluminescent, in rats, 23:7866 (CONF-680920-, pp 944-50)
uniformity of, equipment design for testing, 21:32425
use as tube coating for radioisotope-powered light sources, 22:23206(P)
use for detection of fast neutrons, pulse-height distribution of recoil protons in, 22:14815
use for determining carbon-14 and tritium in detergent—water solutions, 22:45225
use for production of visible images in bremsstrahlung photography, 21:16168
use in infrared stimulated dosimetry, 21:331
use of composite, for separation of luminescent decay components in scintillation detectors, 22:45291
use of hexafluorobenzene, for gamma dosimetry in mixed gamma—neutron fields, 22:28108
use of liquid organic, for activity counting of biological materials, effects of benzyldimethyl-[2-[2-[[4-(1,1,3,3-tetramethylbutyl)tolyl]oxy]ethoxy]ethyl] ammonium hydroxides on, 21:43271
use of lithium fluoride—polyethylene—silver-activated zinc sulfide, for measurement of thermal neutron flux in subcritical assemblies, 22:2374
use of organic compounds as liquid scintillators, 21:14468
use of organic, for improving efficiency of Compton gamma spectrometer for energies up to 400 keV, 22:356
use of plastic, in eye of dogs as radiation detector, efficiency of, 22:31119
use of plastic, with photoresistive cells for gamma- and x-ray dosimetry, 22:25674
use of plastic, with strontium-90—yttrium-90 beta source as standard light source, luminosity of, 22:47415
use of thick organic, for fast neutron spectrometers, 21:19963
use of thin plastic, in 4π-geometry for dosimetry of cesium-137 in meat, 24:36757
use of tissue-equivalent organic, in measurement of x radiation absorbed dose to bones and muscles, 25:55213
use of, as activation detector in dosimetric equipment, 21:3412
use of, for self-luminous lighting, 21:12599
use with photographic film for determining activity of dust particles on air sample filters, 22:28515
use with radioisotopes for timing photomultiplier channels, 21:16234

PHOSPHORUS

abundance and energy spectra in primary cosmic radiation, (E), 23:14655
abundance and energy spectra of high-energy cosmic-ray nuclei of, (E), 21:637
abundance in 112 Her AB, (E), 25:16645
abundance in A-pec stars, (E/T), 25:6973
abundance in α And, (E), 25:19343
abundance in BD + 10°2179, (E), 23:44048
abundance in HD 1909 and 53 Tauri, (E), 22:47730
abundance in iota Ori B, (E), 25:8995
abundance in kappa Cancri, (E), 24:35015
abundance in Kappa Cancri, (E), 25:2840
abundance in L and H chondrites, (E), 25:8967
abundance in peculiar A stars, (E), 25:853
abundance in peculiar A stars, (T), 24:27941
abundance in photosphere, (E), 22:23932
abundance of, solar, (T), 22:13206
accumulation by maize, selection of populations according to differences in, 22:33712(R) (NYO-2744-53)
accumulation in red blood cells of uranium miners, 25:26582
accumulation of, by marine hydrobionts, 21:8806(T) (AEC-tr-6641, pp 78-104)
analysis for arsenic by neutron activation, 22:4468
analysis for oxygen by fast neutron activation, 25:29024
analysis for trace amounts of antimony, arsenic, and copper by neutron activation and radiochemical separation, 24:16479
analysis of red, for impurities by neutron activation and γ spectroscopy, 21:34218
analysis of red, for trace impurities, activation and gamma spectrometric, 21:19572
analysis of, for trace elements by neutron activation methods, 21:10253 (SGAE-CH-31/1966)
antiproton capture by, x-ray spectra from, 25:47798
atomic weight of, based on carbon-12 = 12, 22:42698
binding energy of next inner subshell, (T), 21:11388 (IPP-1/54)
book: Fundamentals of Metallurgy. Vol. 5. Minor, Noble, and Radioactive Metals. Transuranic Elements, 23:26986
book: Topics in Phosphorus Chemistry. Vol. 4, 22:25434
bremsstrahlung reactions (γ,p) at 35 MeV, proton energy distribution from, (E), 21:44624
chemical states of recoil, in proton-irradiated potassium chloride monocrystals, effects of sulfide ions on, 24:13890
chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
compounds of, mixed valence chemistry of, review on, 24:7440
compounds of, use of, as ion-exchange material, 21:28070
compounds with thorium or uranium and selenium, sulfur, or tellurium, preparation and structure of, 22:47118
compounds, binding energies in, 23:40616 (UCRL-18735, pp 5-80)
compounds, ionization and fragmentation by electron impact in mass spectrometer, review on, 22:25421
compounds, photolysis of, review on, 22:25421
compounds, spectra of, measurement of chemical shifts in inner-electron binding energies from x-ray photoelectron, 23:49770 (UCRL-18667, pp 247-54)
concentration in fresh water mollusks, 21:18015(T) (CEA-tr-R-1500)
content and forms in terrestrial environment, 23:13828(R) (ORNL-TM-2294)
content in bone, spectrographic determination of, 21:27926
content in bones, muscles, and organs of cattle and grasses in Panama, effects of fallout from nuclear explosion on, 24:2301
content in diet, effects of, on removal of internal strontium from man, 21:34585
content in diet, effects of, on strontium-90 toxicity in mice, 21:45577
content in incisor teeth in rats, effects of calcium and strontium content in diet on, 21:41322
content in insects, FORTRAN 7090 computer program for determination of, 21:39350
content in mud and water of Lake Dojran, 21:26564(T) (TT-65-50409/4)
content in protozoa, activation analysis on nucleic acid for determining, 21:32579
content in radioresistant and radiosensitive yeasts, 25:52258
content in uraniferous minerals of Calabria, Italy, 21:45263
content in uraniferous minerals, spectrochemical and x-ray fluorescence analysis of, 21:10479
content in white tissues of Arabidopsis thaliana mutant, 21:20116(R) (COO-1609-1)
content of animal tissues, determination of, by neutron activation analysis, 22:17049
content of blood, feces, and urine of man, measurement of, 23:17928
content of bones in young children, 25:24013
content of diet of goats, effects of, on calcium and phosphorus metabolism, 25:8592(R) (COO-1339-43)
content of diet of human infants in USA during 1960 to 1965, 23:50472
content of diet, effects of, on strontium-90 metabolism in rats, 22:45404
content of diseased and normal human bones, neutron activation determination of, 25:55106
content of erythrocytes of uranium mining personnel, effects of starvation diet on, 24:17058
content of human aorta and testes, effects of age on, 22:12749 (ORNL-P-3541)
content of human testes, effects of age on, 23:12032
content of marine algae, crustaceans, fish, and mollusks, 22:22903 (PRNC-104, pp 57-67)
content of mutant and wild type Arabidopsis thaliana, assay of, 23:20173
content of plant tissues, determination of, by gamma spectrometry and neutron activation analysis, 23:6357
content of water and organisms at mouth of Columbia River, effects of cooling waters of Hanford reactors on, studies of invertebrates and algae for determining, 24:690 (RLO-2047-5, App. A)
content of yeast cells, relation of, to postradiation recovery, 22:31290
content of, in diet and excreta of humans, 21:17993
content of, in diet of rats, effects on metabolism of calcium-45 and strontium-85, 21:16266
content of, in normal thyroid, goiter, and thyroid carcinoma, 21:12781
content of, in plasma of burros following irradiation of torso only and whole body, fast neutron, 21:8681
content ratio in river silts to river water, 23:13859
cosmic-ray nuclei of, propagation and source characteristics of low-energy, (E), 23:14656
creep in, activation energy for, 23:8198
Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
cycling in brackish waters, 25:54375 (ORO-3549-7)
cycling in marsh grass and sediments of salt marshes, tracer study of, 23:17978 (CONF-670503-, pp 412-19)
cycling in northern Mojave and southern Great Basin deserts, 25:49120 (UCLA-12-815, pp 63-97)
deficiency of, effects on rate of root pressure exudation in γ-irradiated tobacco, 24:25606
determination as impurity in amorphous boron, spectrographic, 22:16429
determination as impurity in graphite by neutron activation and radiochemical separation, 24:13789
determination as impurity in semiconductor silicon, neutron activation, 22:39993
determination as impurity in thorium and thorium dioxide, spectrographic, 22:1994
determination as impurity in tungsten filaments by neutron activation followed by ion exchange and β counting, 23:9322
determination as impurity in uranium by carrier distillation, spectrographic, 22:30430 (JEN-191-DQ/1-65)
determination as impurity in uranium oxide (U_3O_8), spectrochemical method for, 22:50937
determination as trace impurity in glass fragments by mass spectrometry, 22:33205 (AWRE-O-3/68)
determination as trace impurity in silicon dioxide by activation, ion-exchange chromatography, and gamma spectrometry, 22:12227(T) (AD-662383)
determination by 14-MeV neutron activation using barium as internal standard, 24:5644
determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
determination by activation analysis, 22:7989 (CONF-660905-2)
determination by activation by pulsed neutrons, design of system for, 24:164
determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
determination by atomic absorption spectrometry of molybdenum heteropoly acids, 23:19630
determination by computerized instrumental neutron activation method, 23:15827
determination by differential spectrophotometry, 24:38732
determination by flame emission spectrometry, 23:11403
determination by helium-3 activation analysis, sensitivities for, 21:25787
determination by Karl Fischer reagent, 22:40063
determination by neutron activation methods, 24:2158
determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
determination by neutron detection following alpha reactions (α,n), 22:7994(T) (ANL-Trans-543)
determination by perchloric acid pretreatment, solvent extraction using cupferron, and spectrophotometry, 25:6258(R) (IN-1426)
determination by photon activation, sensitivity for, 23:15826
determination by proton activation methods, 21:19581
determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in air particulates by spark source mass spectrometry, 25:8208
determination in alloy steel by neutron activation methods, 22:35765
determination in alloys and metals, extraction method for spectrophotometric, 22:4043
determination in alloys by combined neutron activation, radiochemical separation, and isotopic dilution, 24:26
determination in aluminum and magnesium by neutron activation techniques, 22:47083
determination in beryllium oxide and iron, effects of spark duration on relative sensitivity factors for mass spectrometric, 25:15474 (Y-1757)
determination in biological materials by automated neutron-activation methods, 22:16450
determination in biological materials by neutron activation, 23:40607
determination in biological materials by neutron activation methods, 22:35766
determination in biological materials by neutron activation, equipment for, 24:57
determination in biological materials, automatic separation system for, 22:8020
determination in blood by fast neutron or secondary particle activations, 23:45609 (CNM-R-2(Vol.2), pp 797-825)
determination in blood, bone, and hair by thermal neutron activation and γ spectrometry, 23:24133
determination in blood, bone, hair, and plant tissue by neutron activation and γ spectroscopy, 24:115
determination in bone by activation methods, 23:40591
determination in boron, 25:4009 (TID-25190)
determination in brass, 21:30345(R) (IN-1063)
determination in bronze, 23:6 (IN-1203, pp 37-51)
determination in calcite and dolomite by neutron activation and γ spectrometry, 25:54497
determination in carbonates, oxides, phosphates, silicates, or sulfates by electron probe method, correction factors for, 24:48035
determination in casein, cystine, and glycine, neutron activation, 21:35874
determination in cellulose by γ activation, 24:29237
determination in chondrites and achondrites, (E), 23:22710
determination in clover and grass flours by fast neutron activation and γ spectrometry, 23:31312
determination in compounds containing phosphorus, tungsten, and zirconium by x-ray fluorescence, 23:1 (CEA-R-3474)
determination in copper by neutron activation methods, 23:51
determination in copper, activation, 22:27558
determination in detergents by neutron activation, 22:4308 (TID-24029)
determination in ecological materials by pyrolysis and gas chromatography, 24:13734 (ORNL-4466, pp 12-25)
determination in enamel of human teeth by deuteron and proton activation, 23:4564
determination in fertilizers, review on methods for, 25:31776
determination in gallium arsenide crystals by neutron activation, 24:27027
determination in geologic samples, photonuclear activation, 21:35861
determination in geological material by neutron activation methods, 23:11474
determination in geological samples by neutron activation and γ spectrometry, 23:37933
determination in glass, spectrophotometric, 25:6260 (CEA-N-1341, pp 3-93)
determination in glass-making sands, anode excitation studies on effects of barium fluoride and powdered graphite buffers on spectrochemical, 23:11426
determination in glass-making sands, cathode excitation studies on effects of barium fluoride and powdered graphite buffers on spectrochemical, 23:11425
determination in graphite by spark source mass spectroscopy, 21:40772 (IS-1600, Paper 3)
determination in graphite, molybdenum, and tungsten by neutron activation methods, 22:16387 (CEA-R-3267)
determination in high-purity niobium, 22:1981
determination in high-purity selenium by neutron activation methods, 22:45019
determination in high-speed and stainless steels, photometric, 22:28783(T) (TT-66-59003-4/A)

determination in human blood by neutron activation, chromatographic separation, and gamma spectrometry, 23:4543
determination in human body by neutron activation, 25:4042 (CONF-680211-, pp 496-516)
determination in human hair, blood, and nails by neutron activation methods, 21:28471
determination in human hair, comparison of neutron activation and spark source mass spectrometric methods for, 24:137
determination in human lung tissue by neutron activation, 23:4571
determination in human muscle by neutron activation, 23:4570
determination in human nails by neutron activation, 23:2191
determination in human phantoms simultaneously with calcium, chlorine, potassium, and sodium by 14-MeV neutron activation and γ spectrometry, 25:44818
determination in human stones by neutron activation, 25:34546 (THAI.-AEC-39)
determination in human tissues by thermal neutron activation, sensitivity of, 25:2123 (IAEA-122, pp 1-13)
determination in human whole blood by neutron activation, 23:24135
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in Inconel, 21:30345(R) (IN-1063)
determination in iron and steel, review of methods for, 21:21902
determination in iron and steel, review on methods for, 23:26173
determination in iron meteorites, 22:35749
determination in iron, iron ores, slags, and steel, fast-neutron reactions for activation, 21:19537 (MG/D-329/65)
determination in Kingfisher chondrite, electron microprobe, 24:34986
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in leather by spectrophotometry as molybdovanadophosphate complex, 25:23506
determination in liver by neutron activation methods, 22:48835
determination in low-alloy steel, two-standard method for spectrometric, 25:28950
determination in lunar rocks and soil from Apollo 11 by mass spectrography, 24:20733
determination in lung tissue from uranium miners by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination in lymph nodes by neutron activation and spectrophotometry, 23:17366
determination in man for forensic science uses by neutron activation, 23:4579
determination in mice by neutron activation, 25:37713 (BNWL-1551(Pt.2), pp 72-9)
determination in mineral deposits undersea by neutron activation using californium-252 and γ spectrometry, 25:48468 (CONF-710402-(Vol.3), pp III.7-19)
determination in minerals and rocks, activation, 21:40801
determination in minerals and rocks, thermal-neutron activation, 23:7456
determination in minerals by spectroscopy, 24:41198
determination in minerals by thermal neutron activation and γ spectrometry, 23:13671 (CEA-CONF-1183)
determination in molybdenum or tungsten by neutron activation method, 22:50910
determination in niobium, titanium, tungsten, and zirconium and their alloys, spectrophotometric, 24:22587
determination in nonferrous metallurgical materials, review of methods for, 21:21903
determination in nuclear graphite by neutron activation, 23:11445 (CEA-CONF-1057)
determination in oils by activation methods, 22:33250
determination in organic compounds, 22:37835(T) (JPRS-45458)
determination in organic compounds, 24:33626(R) (UCRL-50006-70)
determination in paper chromatograms by neutron activation, 23:31319
determination in perovskites by spectrophotometry, 24:18889
determination in phosphides and phosphocarbides in presence of uranium, 22:37639(T) (ANL-Trans-610, pp 1-56)
determination in plant tissue by neutron activation and γ spectrometry, 24:123
determination in plant tissues by neutron activation and beta counting or gamma spectrometry, 21:38922
determination in plutonium dioxide using α-reaction γ spectra, 22:18704
determination in plutonium oxide—uranium oxide pellets by spectrophotometry, 25:26153 (LA-4622)
determination in powdered thermal water residues, mass spectrographic, 25:51369
determination in rocks, by neutron activation methods, 22:16442
determination in samples by x-ray spectrography, 23:18 (WAPD-321)
determination in SbP ion exchanger by photon activation, 25:44345
determination in scandium, spectroscopic, 22:18727
determination in seawater, device for automatic, 21:32077(R) (UCSD-34-P-108-55(Pt.1))
determination in semiconductor silicon by neutron activation methods, 22:14459
determination in silicate rocks by neutron activation and radiochemical separation, 23:11473
determination in silicates, spectrographic, 21:42880
determination in silicon by thermal neutron activation and radiochemical separation, 25:15547
determination in silicon, activation, 21:30369
determination in soil and soil extracts by emission spectroscopy, 23:13619 (CEA-CONF-1182)
determination in stony meteorites, (E), 23:22711
determination in sulfur by neutron activation, competing reactions in, 23:9332
determination in surface waters by emission spectrography, 23:24078
determination in syenite rock by x-ray emission method, 23:6060
determination in the presence of silicon by neutron activation, equipment for, 24:57
determination in thorium oxides and zirconium oxides, direct spectrochemical method for, 23:21638
determination in thyroid gland by electron microprobe methods, 25:31795 (UCRL-72508)
determination in tissue near metallic hip joints by microanalytical methods, 25:37273
determination in trichlorosilane and silicon tetrachloride by neutron activation methods, 21:35860
determination in trichlorosilane by neutron activation methods, 21:42879
determination in uranium by carrier-distillation spectroscopy, 21:17570
determination in uranium tetrafluoride, spectrographic, 21:21899
determination in various regions of human liver tissue by neutron activation, 25:31867
determination in vegetal materials by fast and thermal neutron activation, 23:9327
determination in water, review of methods for, 21:21904
determination in yttrium and yttrium oxides using sifter-type electrodes, spectrographic, 23:19621
determination in yttrium by spectrography using sifter-type electrode, 23:15799
determination of abundance of, relative to sulfur in guanosine—mercaptoguanosine solutions using electron probe, 24:13739 (ORNL-4466, pp 95-8)
determination of availability of dietary, radioisotopic techniques for, 23:45209
determination of inactive, in phosphorus-32 products, 22:14433 (ORNL-4196, pp 66-89)
determination of labile, in soils, evaluation of isotope dilution method for, 23:40570
determination of localized or whole-body, in man by neutron activation and whole-body counting, 23:17(R) (RLO-2046-1)
determination of neutron-activated, in enamel of human teeth, 21:14589
determination of small amounts of, in gadolinium and yttrium oxides, 23:4536
determination of total body, in man, by neutron activation, 22:31007
determination of total, in man by in vivo neutron activation and γ spectroscopy, 25:39444
determination of total-body in man by isotope dilution and in vivo fast-neutron activation, bone mass measurements from, 23:13974 (BNWL-715(Pt.2), pp 181-225)
determination of total-body, in mice by neutron activation and scintillation counting, 24:50358
determination of trace amounts of, 25:31817
determination of trace amounts of toxic, in biological materials by neutron activation, 24:25018
determination of trace amounts of, evaluation of methods for, 23:47382
determination of trace amounts of, in beryllium and uranium, spark mass spectrometric, 21:34227
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in liquid sodium by emission spectroscopy, 24:46174 (BNWL-1407)
determination of trace amounts of, in molybdenum, review on, 25:10459
determination of trace amounts of, in natural waters by neutron activation and γ spectroscopy, 23:40605
determination of trace amounts of, in neodymium and yttrium oxides by spectrophotometry, 24:9233
determination of trace amounts of, in nickel and nickel-base alloys by neutron activation, 23:40590
determination of trace amounts of, in silicon by neutron activation methods, 21:2946
determination of trace amounts of, in zone-refined germanium by spark source mass spectrometry, 24:43934(R) (AECL-3556)
determination of trace impurities of, in uranium materials by fractional carrier distillation, spectrographic, 22:30483
determination of trace, in high-purity iron by neutron activation methods, 23:2236
determination of traces of, in blood by activation methods, 21:12301
determination of traces of, in steel by x-ray fluorescence, 23:7492
determination of, in biological materials, chemical separation method for activation, 21:2 (AE-247)
determination of, in motor-oil additives, activation, 21:8203
determination of, in muscle biopsy samples, by neutron activation analysis, 21:14699
determination of, in nuclear materials by charged-particle activation methods, 21:12327
determination of, in plankton from Gulf of Naples and from Moroiso Cove in Japan by emission spectrography, 21:10250 (EUR-2771.d)
determination of, in plant samples, solubilization method for, 21:14150 (UCLA-12-613)
determination of, in sodium uranate, direct-reading spectrochemical, 21:5749 (JEN-164-DQ/I-57)
determination of, in U_3O_8, preparation of standards for spectrochemical, 21:1243 (JAERI-1112)
determination of, in various metals and compounds using activation analysis, 21:12296
determination of, in zirconium by neutron activation method, 21:12322
determination of, methods for, 21:14172
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, sensitivity for 18-MeV helium-3 activation, 21:12285(R) (ORNL-4039)
determination of, spectrographic, 21:5748 (JEN-163-DQ/I-56)
determination simultaneously with chlorine in phosphoorganic compounds by fast neutron activation, 24:43977
determination simultaneously with silicon in cast iron and steel by neutron activation and scintillation counting, 25:46465
determination using complex formation of molybdenum with azo dyes, indirect photometric, 25:37300
deuteron elastic scattering at 13.6 MeV, optical-model analysis of differential cross sections for, (E), 25:25650
development and uses of, 25:10491 (ORNL-4636, pp 20-33)
dietary, effects on metabolism of calcium-47 and phosphorus-32 in goats, 23:50270(R) (COO-1339-23)
diffusion along dislocation agglomerations in electron-beam-heated silicon, (E), 24:6646
diffusion in molybdenum and niobium, determination using phosphorus-32, 23:12321
diffusion in silicon during hot-substrate ion implantation, 25:19824
diffusion in silicon for use as fast-neutron detector, 22:314
diffusion in vanadium at 1200 to 1450°C, 24:48842
diffusion in zirconium at 950 to 1200°C, 24:48842
diffusion in, activation energy for self-, 23:8198
diffusion into silicon junctions, method for control of shallow, 24:36855 (AECL-3604)
diffusion of radioactive and stable, in soils with sinks, 22:49030
diffusion of, in anodic oxide films on tantalum during heat treatment, 21:4904
diffusion of, in uranium phosphide, 21:13270
distribution and forms of, in sediments and soils, (E), 25:18521 (ORNL-4584, pp 1-10)
distribution in barley, soybeans, and wheat during development, 25:42322(R) (COO-1097-46)
distribution in children in relation to strontium-90 metabolism, 23:24546
distribution in land—water systems, 24:24960 (ORNL-TM-2913)
distribution in plankton off Colombia and Panama, 24:17020
distribution in steel, use of phosphorus-32 as tracer in autoradiographic studies of, 22:8324
effects as additive on precipitation hardening of iron—niobium and iron—zirconium alloys, 23:12312
effects as additive on weldability of Incoloy 800, 23:8167 (ORNL-4370, pp 151-5)
effects as dopant on annealing of electron- and neutron-irradiated silicon, (E), 24:6632
effects as dopant on electric and thermal conductivity of molybdenum silicide, 23:14378(R) (ALO-2510-3)
effects as interstitial impurity on hot ductility of Inconel 600, 24:17232 (ORNL-4480, pp 256-65)
effects as trace impurity on weldability of Incoloy 800, 23:20482 (ORNL-4350, pp 249-59)
effects of anodic oxide films containing, on gaseous oxidation of tantalum, 22:4735
effects of dietary, on strontium-90 metabolism in animals and man, review on, 25:23972(T) (AEC-tr-7195, pp 209-19)
effects of grain boundary segregation of, on brittleness of polycrystalline tungsten, Auger spectroscopic study of, 24:48829
effects of implanted, on sheet conductance of silicon after anneal, 23:27682
effects of impurities containing, on radioinduced defect centers in calcite, (E), 21:3922
effects of interstitial impurity of, on mechanical properties of iron, 25:29855
effects of interstitial, on properties of refractory metals, 23:48492
effects of residual, on neutron embrittlement of Types A302B and A533B steel, 25:55577 (NRL-7310)
effects of trace amounts of, on hot ductility of Inconel 600, 24:4737 (ORNL-4440, pp 160-75)
effects on annealing of radioinduced defects in silicon single crystals, (E), 21:37601
effects on brittleness of tungsten, 24:19417 (COO-1778-4)
effects on calcination of molybdic waste solutions, 22:27849 (CEA-N-816, pp 415-80)
effects on carrier properties of irradiated germanium, 24:18028
effects on corrosion of austenitic stainless steel by dichromate—nitric acid solutions, 21:30956(R) (GEAP-5194)
effects on corrosion of austenitic stainless steel by dichromate—nitric acid solutions, 21:28719 (GEAP-5047)
effects on corrosion resistance of Type 18-18-2 stainless steel to boiling aqueous magnesium chloride, 23:12276
effects on creep in shielded metal-arc welds in stainless steel, 25:8849 (ORNL-4600, pp 142-6)
effects on defect annealing in irradiated silicon, (E), 21:29386
effects on defect formation in silicon by diffusion, 21:31036 (UCRL-17330, pp 79-121)
effects on defect formation rate in neutron-irradiated n-type silicon crystals, 24:19947
effects on determination of fluorine in organic compounds and metal-organic compounds by neutron activation methods, 22:14439
effects on determination of iron in iron ores by x-ray fluorescence method, correction factor for, 23:6062
effects on determination of silicon in metallurgy samples by neutron activation and γ spectrometry, 24:157
effects on ductility of Inconel 600 at 400 to 1000°C, 25:29825 (ORNL-4630, pp 261-70)
effects on electric and magnetic properties and hardness of thorium phosphides, 23:22705
effects on extraction—absorptiometric determination of trace amounts of copper using 4-(2-pyridylazo) resorcinol, 24:11436

effects on extraction-photometric determination of niobium, 23:49721
effects on fast neutron embrittlement of Type 302B steel at 250 and 550°C, 25:40082
effects on fluorometric determination of zirconium, 25:28963
effects on grain refinement in uranium alloys, 23:3070 (CEA-R-3529)
effects on grain structure of cast molybdenum—uranium alloys, 22:43602
effects on hot ductility of Incoloy 800, 24:44674 (ORNL-4560, pp 239-50)
effects on hot ductility of Inconel 600, 24:2893 (ORNL-4470, pp 112-17)
effects on hot ductility of Inconel 600, 23:24864 (ORNL-4390, pp 189-203)
effects on hot ductility of Inconel 800, 23:24864 (ORNL-4390, pp 189-203)
effects on Inconel fuel cladding welds, 23:976
effects on ion exchange spectrophotometric determination of tantalum in steel, 25:39426
effects on lattice parameter of unirradiated and irradiated silicon crystals, 23:27680
effects on leaching properties of South African uranium minerals, 24:328 (NIM-415)
effects on mechanical properties of cemented carbides as impurity in tungsten oxide, 23:46129
effects on neutron-induced embrittlement of Type A302-B steel, 23:32040(R) (BNWL-678)
effects on neutron-induced embrittlement of Type A302-B steel, 23:12375 (NRL-6803)
effects on neutron-induced lifetime degradation in silicon, (E), 22:17826
effects on photometric determination of molybdenum and vanadium in catalysts, 24:11415
effects on preparation and fabrication of chromium—iron-base—nickel alloys, 21:38820 (GEAP-5026)
effects on radiation embrittlement sensitivity of A302B steel, 23:50977(R) (BNWL-932)
effects on radioinduced brittleness of heavy-section Type A533B steel, 25:2757 (NRL-7121)
effects on radioinduced luminescence of alkali metal halide crystals, 21:29373
effects on retention of cesium-134 and strontium-85 by lactating cows and rats following inclusion in diet, 24:2546 (NYO-4039-1, pp 39-46)
effects on spectrophotometric determination of hafnium as reduced molybdosulfatohafnic acid, 23:34985
effects on strontium metabolism in bones and teeth of rats, 23:22225
effects on strontium-85 retention in newborn swine, dietary, 24:23076 (CONF-690501-, pp 173-82)
effects on strontium-85 retention in swine, 23:50275 (COO-1339-37)
effects on survival of Escherichia coli, combined effects of chemical compounds, radiosensitivity, and temperature on β, 24:32278
effects on uptake and distribution of calcium-45 and strontium-90 in oats, 25:24008
effects on uptake of strontium-89 by rats, 23:50289
effects on weldments of copper—nickel alloy pipes and Monel plates, 22:10927 (WERL-0029-4)
effects on x-radiosensitivity of sunflower seedlings, 22:43478
electron binding energies in, chemical shifts of core, 25:6323 (UCRL-19530, pp 238-60)
electron binding energy tables for atomic and ionic, 21:20727 (IPP-1/56)
electron elastic and inelastic scattering at 40 keV by, calculated total cross sections for, 24:6370
electron reactions with, Born and Ochkur calculations of cross sections for removal of 2s or 3s electron from, 24:23777
electron reactions with, cross sections for ionization in, (T), 23:5233
electron reactions with, ionization cross sections for, 21:35006 (IPP-1/62)
electron reactions with, ionization cross sections for, (T), 22:45931
energy level transition probabilities for atomic, 22:2811
energy of P_4 molecular, internal, 23:41692 (UCRL-18735, pp 129-52)
energy-level transition probabilities for, critical compilation of data on, 24:6348 (NSRDS-NBS-22(Vol.2))
fluorescence yield of, K-shell, (E), 22:17392
formation and distribution of uranium-containing deposits of, geology of, 23:40891
formation of red, by γ-induced reaction of white phosphorus and dimethyl sulfide, 22:37784
gamma activation of, at 30 MeV, gamma spectra of products from, 22:6361 (AERE-R-5547)
gamma attenuation in, photoelectric coefficients of, 21:21006
hyperfine structure of μ-mesic atoms of, (E), 24:15145
hyperfine structure of, Brueckner—Goldstone calculations of, 22:52543
implantation into silicon, 23:32557 (CEA-CONF-1256)
implants in diamond single crystals, analysis, 25:27858
incorporation in silicon by ion implantation at 260 to 300 keV at room temperature or 600°C, 23:42385
ionization energies of, Hartree—Fock calculations of effects of inner-electron rearrangement on, 23:5236
leaching from phosphate glass with distilled and tap water and seawater, 23:4739
meson polarization in μ-mesic atoms of, (E), 24:15145
metabolism by coral reef animals at Eniwetok, 23:18040 (CONF-670503-, pp 474-82)
metabolism in cane plants following sorption from water, phosphorus-32 study of, 23:12026
metabolism in corn, effects of age on, 21:41343
metabolism in fractions of spinach chloroplasts, 24:557
metabolism in patients with acromegaly studied with calcium-47, 21:20062
metabolism in rabbit bone, effects of plutonium-239 on, 21:34593
metabolism of, in normal thyroid, goiter, and thyroid carcinoma, 21:12781
metabolism of, in rats, relation to radioinduced dental caries, 21:6569
mobility in deep-sea sediments, postdeposition, 25:32093
neutron activation of, for use in determining phosphoryl peptides, 21:45524
neutron capture cross section at 10 to 60 keV, (E), 21:12013(R) (EANDC(OR)-44(L))
neutron elastic scattering at 3.5 to 4.8 MeV, evaluated angular distributions for, (E), 21:31736 (NAA-SR-11980(Vol.4))
nodules in Miyazaki Prefecture, Japan, radiometric anomalies of, 22:6442
nuclear magnetic resonance in rare earth phosphides, 22:24383 (CONF-670502-, pp 68-77)
nuclear magnetic resonance of, in paramagnetic U_3P_4, (E), 21:37618
nuclear reactions of, tables of, 21:38294
partial pressure over uranium phosphide(UP), 23:9262
performance as cathode in lithium secondary cells, 24:1309 (ANL-7575, pp 136-69)
phase changes in, mechanisms of high-pressure-induced, 24:14866(R) (BNWL-658)
phase studies of high-pressure polymorphs of, 23:32040(R) (BNWL-678)
phase transition at high pressure, resistivity study of, 24:51816 (UCRL-19647)
photoinduced addition to organic substances, 23:6158
photolysis of, review on, 22:25421
photon reactions at 0.001 to 15.0 MeV, cross sections for, 21:17297 (UCRL-50178)
photon reactions with, ionization in, 24:19749
production by γ radiolysis of phosphine and ammonia—phosphine mixtures, 24:2255
production in agro-industrial complexes, effects on electricity production costs of, 23:11167 (ORNL-4290)
production of pure, review of techniques for, 25:3219
production of, analysis of optimum economic multi-purpose desalination and power reactor system for, 23:15698(T) (ORNL-tr-2078)
production of, effects of low-cost nuclear power on economics of, 23:29981 (CONF-680810-, pp 197-201)
production using electric furnace, economic aspects of nuclear power in, 23:28774 (CONF-680810-, pp 47-66)
properties for use as dopant for germanium silicide thermoelectric materials, 24:10137 (ALO-2510-T-1)
proton reactions with, Born and Ochkur calculations of cross sections for removal of 2s or 3s electron from, 24:23777
proton reactions with, cross sections for ionization in, (T) , 23:5233
proton reactions with, gamma spectra from, 21:19581
radiation effects on acid labile, inorganic, and total, in potato tubers, γ, 24:25074
radiation effects on content of serum, in Beagle dogs following injection of bone-seeking radioisotopes, statistical analysis of α and β, 23:38795
radiation effects on content of, in blood and lymph of dogs, 22:45437
radiation effects on content of, in blood serum of dogs, radium-226 α and γ and strontium-90 β, 23:12003 (UCD-472-115, pp 25-30)
radiation effects on content of, in buckwheat plants, phosphorus-32 β, 22:36408
radiation effects on content of, in DNA of liver in hepatectomized rats, x, 21:16269
radiation effects on content of, in leaves of forest trees, effects of chronic exposure on γ, 21:24664
radiation effects on content of, in leaves of salvia, phosphorus-32 β, 22:36410
radiation effects on content of, in phospholipids of rat bone marrow and liver, γ, 21:26612
radiation effects on content of, in soils, γ, 22:23450
radiation effects on content of, in tomato plants, x, 21:16529
radiation effects on dissolution of red, in methyl disulfide, γ, 24:11626
radiation effects on high-pressure polymorph of, fast-neutron, 23:25443
radiation effects on high-pressure polymorphs of, fast neutron, 25:11474(R) (BNWL-842)
radiation effects on metabolism in pea and wheat plants and in first and second filial generations, γ, 25:57941
radiation effects on metabolism of, by barley, γ, 22:6723
radiation effects on metabolism of, by man, therapeutic, 21:45744
radiation effects on metabolism of, in nucleic acids of normal and denervated muscles of rabbits, whole-body x, 22:49217
radiation effects on microstructure of high pressure forms of, fast neutron, 23:24956 (BNWL-870, pp 12.1-55)
radiation effects on ratio of, to esterified fatty acids in lecithins, x, 22:23456
radiation effects on uptake of, by sunflowers, fast and thermal neutron, 23:9922
radiation effects on uptake of, from soil by corn, β, 21:30921
radiation effects on utilization of, from wheat bran by chickens, 23:20124
radiative lifetime in, use of electron collision—phase shift method in determination of, 22:41331
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
radioinduced addition to organic substances, 23:6158
radioinduced defects in n-type silicon crystals doped with, annealing of gamma, 23:42465
radioinduced reaction of white, with bromoform, study of free radicals in γ, 22:37782
radioinduced reaction of white, with dimethyl sulfide, formation of red phosphorus and methyl phosphorotrithioite from γ, 22:37784
radiolysis of P_4 in bromotrichloromethane, formation of diphosphines by γ, 24:4306
reactions of recoil, in proton-irradiated alkali metal halide crystals, 24:13889
reactions of recoil, in proton-irradiated monocrystals of potassium chloride, 24:13888
reactions of red, with thorium, preparation of thorium phosphides from, 21:40868
reactions of red, with uranium, preparation of uranium phosphides from, 21:40868
reactions of vapors of, with nickel and tungsten wires at 400 to 700°C, 21:14228
reactions of, with deuterium, emission spectra of PD^+ molecule formed in, 21:8283
reactions with alkali metal vapors and uranium hexafluoride to produce reactor fuel materials, 23:10262(P)
reactions with tin, production of superconducting compound by, 24:15259
reactions with uranium, 21:32972
reactions with uranium below 400°C, solid-state, 23:4642
reactions with uranium hexafluoride and alkali metal vapor, preparation of uranium phosphide from, 21:30434(P)
separation from aqueous sodium hydroxide solutions by anion exchange, distribution ratio for, 24:19057
separation from aqueous solutions of phosphates by foaming method using tetradecylamine hydrochloride, 23:369
separation from bone ash, method for, 24:13739 (ORNL-4466, pp 95-8)
separation from irradiated sulfur by adsorption on glass or ceramic from carbon disulfide solution, 23:38011(P)
separation from irradiated sulfur by distillation as phosphorus pentasulfide, 23:38012(P)
separation from monazites, 21:40970
separation from neutron-irradiated sulfur, 21:39023(P)
separation from neutron-irradiated sulfur, mild extraction process for, 22:16605
separation from ores by solvent extraction, review on, 25:10656 (BM-IC-8502)
separation from pure iron and nickel, 23:11463
separation from sulfur, 21:24103(P)
separation from sulfur by solvent extraction, 22:12355
separation from sulfur by sorption on magnesium dioxide, 22:157
separation from tungsten minerals, by extraction using nitric acid, 23:9531
separation from uranium by fractional dissolution, 25:34699
separation from uranium by precipitation using carbonates, 21:32110
separation of hafnium and/or zirconium from solutions containing titanium and, 22:37871(P)
separation of zirconium from, by dissolution in sulfuric acid medium, extraction using TBP, or treatment with sodium hydroxide, 24:19078
sorption by humic acid in seawater, 24:16483 (BARC-402)
sorption by manganese dioxide from nitric acid, 22:157
sorption from soils by coconut trees, phosphorus-32 tracer study of, 25:52019 (A/CONF.49/P-748)
spectra of, bibliography on analyses of optical, 24:44991 (NBS-SPEC. PUBL-306-1)
spectra of, resonance transition probabilities in intermediate coupling, uv, (T), 21:20739
spectra of, Stark widths and shifts for neutral atomic lines, 24:23973
spectral line tabulations for atomic, below 2000 A, 22:19737 (NRL-6648)
stability during melting process in vacuum arc furnace, 23:24877
superconductivity at high pressures, (E), 22:46064
superconductivity of, 22:34530
thermal conductivity of, data review on, 23:6743
thermodynamic properties at 0 to 6000°K, calculation of, 23:24056 (ANL-7459)
uptake and excretion by man, 22:6803 (ORNL-4168, pp 231-88)
uptake by plants from soils, 21:21840 (STI/DOC-10/65)
uptake by plants, effects of soil type on, 21:22238(R) (NP-16547)
uptake from fertilizers by rice plants, effects of application method on, 21:20018 (AECD/AG-9)
uptake of, by cotton leaves in presence of phosphorus-32, effects of ion content of nutrient medium on, 21:11123
use in photoelectric two-step nuclear batteries, evaluation of, 21:26116
x-ray transitions in spectra of, wavelengths of Kα-type, (T), 23:12495

PHOSPHORUS ACIDS
see also Hypophosphorous Acid
see also Metaphosphoric Acid
see also Phosphoric Acid
see also Phosphorous Acid
see also Pyrophosphoric Acid
production of labeled, by reactions of recoil phosphorus atoms with chloromethanes, mechanism of, 22:30595
properties of monolayers of long-chain, 21:42915(R) (NYO-2279-3)
radioinduced oxidation of, review on, 22:25421
reactions in water, effects of deuterium on relative acidity constant for, 24:9285
yields of phosphorus-32-labeled, in neutron-irradiated benzene—phosphorus trichloride, effects of diluent on, 23:13770

PHOSPHORUS BROMIDES
hydrolysis of neutron-irradiated, products from, 23:21764
radiation effects on, products from neutron, 23:21764

PHOSPHORUS CHLORIDES
see also Phosphoryl Chlorides
analysis of phosphorus-32-labeled, for labeled phosphoryl chloride, radiometric, 21:17578
complexes of PCl_5 with uranium pentachloride spectra of, ESR and ir, 24:9338

effects on gamma-induced polymerization of α-methylstyrene, 21:30472
effects on gamma-induced polymerization of polyethylene, 21:40890
electron impact ionization and fragmentation in mass spectrometer, review on, 22:25421
hydrolysis of neutron-irradiated, products from, 23:21764
phosphorus-32 exchange reactions in carrier-free, 22:18786
radioinduced reactions with alkenes, formation of chloroalkylphosphonous dichloride in, 21:30439 (BMwF-FBK-67-23)
radioinduced reactions with α-methylstyrene, 2-methylpropene, and styrene, effects of dose and temperature on γ, 21:40881 (NP-16645)
radioinduced reactions with cyclohexane and hexane, γ, 22:47175
radioinduced reactions with hydrocarbons, review on electron and γ, 22:25421
radioinduced reactions with olefins, effects of structure of olefins on yields from γ, 21:30472
radiolysis of PCl_3 and PCl_5, ESR spectra of radicals produced in γ, 25:51514
reactions of PCl_3 with recoil phosphorus-32 forming phosphorus oxychloride, 21:19718
reactions with phosphorus-32 or sulfur-35 recoil atoms, direct labeling by, 25:13069
benzene—PCl_3, radiation effects on, effects of diluent on reactions of recoil phosphorus atoms produced by neutron, 23:13770
$NbTaCl_5$—PCl_5, phase studies on, 22:18794
$NbTaCl_5$—PCl_5, phase studies on, 22:18794
PCl_3—styrene, radioinduced polymerization of, mechanism of γ, 21:30472
PCl_3—UCl_5, preparation of, 22:27651

PHOSPHORUS FLUORIDES
containers for, failure in mild-steel, high-pressure cylinder, 23:21595 (K-1772)
decomposition of, 23:40616 (UCRL-18735, pp 5-80)
formation enthalpy, 21:45068 (ANL-7325, pp 99-135)
formation enthalpy, 21:4479 (ANL-7125, pp 119-49)
formation enthalpy, 21:25935(R) (ANL-7225)
formation of, enthalpy of, 21:36073(R) (ANL-7350)
hydrolysis of ionic, catalytic effects of metal cations on, 23:37940
properties of, 25:39470(R) (ANL-7750)
radioinduced production of free radicals in, dispersed in rare gases at low temperatures, ESR studies on γ, 23:33236
radioinduced radicals at low temperatures in pure solid and xenon-matrix, ESR study of γ-, (E), 25:52914
reactions with boron monofluoride, crystal and molecular structure of $B_4F_4PF_3$ produced by condensation, 23:49771 (UCRL-18667, pp 255-76)
separation by fractional volatilization, 21:45068 (ANL-7325, pp 99-135)
structure of PF_4, theory on, 21:14240(R) (RRL-2310-194)
thermodynamic properties at 0 to 6000°K, calculation of, 23:24056 (ANL-7459)
vapor pressure—temperature data for, 25:34602 (GAT-649)
BH_3—PF_3, spectra of, isotope effects on microwave, 21:8282

PHOSPHORUS IONS
channeling in indium antimonide at 40 to 120 keV, tracer study of distribution of, 25:19801
channeling in silicon, effects of defects on 20-keV, (E), 23:14877
distribution and range in bombarded silica, (E), 22:50250
effects of 40-keV, on germanium single crystals, 21:36881 (ORNL-4142)
effects of implanted, on electric properties of silica films, 25:19788
effects of implanted, on photoelectronic properties of cadmium sulfide at 0.3, 0.5 and 1.0 MeV, (E), 24:32930
effects of implanted, on silicon, 24:19946
effects on germanium single crystals, radiation damage and chemical impurity studies of, 22:26492
effects on glass crystallization at 50 keV, relations with annealing, 25:2823
effects on silicon and germanium at 10 to 400 keV, distribution of defects induced in, 25:27861
effects on silicon single crystals at 60 to 70 keV, dose dependence of damage, 24:6636
effects on silicon, activation energy and annealing temperatures for defects from, (E), 22:26493
effects on silicon, EPR spectra of defects produced in, 24:6623
effects on silicon, ESR and absorption spectral studies of, 24:19956
effects on surface electric properties of silicon as function of dose and heat-treatment conditions, (E), 22:13557
electric properties of layers of, implanted in silicon, 23:48974
electron excitation of, collision strength for ^{3}P transitions in, (T), 23:14523
energy-level transition probabilities for P II through P XIII, critical compilation of data on, 24:6348 (NSRDS-NBS-22(Vol.2))
Hartree—Fock self-consistent field calculations for, 21:31228
implantation doping in silicon for shallow junctions, 23:42452
implantation in cadmium sulfide at 200 keV, annealing of, 25:19791
implantation in cadmium sulfides, (E), 22:29574
implantation in diamond crystals, semiconducting layers induced by, 25:3199
implantation in diamonds at 8 to 70 keV, ion-channeling analysis of layers of, 25:36285
implantation in germanium and silicon, for fabrication of radiation detectors, 22:40387
implantation in germanium and silicon, helium ion channeling study of lattice disorder from, 22:26489
implantation in metal films at 45 and 90 keV, effects on electromigration and resistivity ratio, 25:17282
implantation in n-type silicon for fabrication of large area position-sensitive radiation detectors, 24:5886 (EUR-4269, pp 221-8)
implantation in p-type silicon at 30 keV, effects on carrier concentration and mobility, (E), 22:41677
implantation in silicon at 100 keV, ESR study of depth distribution of, 25:36276
implantation in silicon at 12 to 100 keV, depth distribution of, 25:7447
implantation in silicon at 20 keV, electric profiles after annealing of, 25:19836
implantation in silicon at 20 to 50 keV, energy dependence and depth distribution of lattice disorder induced in, 25:19832
implantation in silicon at 200 and 300 keV, damage profiles from, 25:19817
implantation in silicon at 200, 300, and 600 keV, depth profiles of, 25:45554
implantation in silicon at 25 to 100 keV, effects on impurity diffusion, 25:19824
implantation in silicon at 30 keV, diffusion and defect annealing in, 24:47300
implantation in silicon at 30 to 400 keV, calculated spatial distributions of damage from, 25:19819
implantation in silicon at 40 and 100 keV, annealing characteristics of implanted layers, 25:19837
implantation in silicon at 40 to 100 keV, electron microscopic studies of defects induced in, 25:19808
implantation in silicon at 40 to 400 keV along (110) axis, electric profiles after annealing of, (E), 25:19839
implantation in silicon at 400 keV, effects on electric properties, 24:40164
implantation in silicon at 400 keV, Hall-effect and resistivity measurements as function of temperature on implanted layers, 25:19838
implantation in silicon at 50 keV, electrical properties and annealing of, 25:19779
implantation in silicon at 50 keV, Hall study of ionization energy of, (E), 25:52908
implantation in silicon at 60 keV, optical reflectivity study of annealing of, 25:22616
implantation in silicon at 7 keV, annealing and electric properties of implanted layers, 25:19835
implantation in silicon at 70 to 280 keV, damage distribution from, 25:19818
implantation in silicon at 80 keV, electron microscopic studies of damage from, 25:19814
implantation in silicon carbide at 5 to 300 keV, properties of conducting layers and p—n junctions formed by, (E), 25:19847
implantation in silicon crystals at 10 to 110 keV, distribution profiles for channeled, (E), 22:26480
implantation in silicon crystals at 10 to 120 keV, range distributions in, (E), 24:42810
implantation in silicon crystals, distribution profiles for, (E), 22:26481
implantation in silicon diodes and MOS transistors, electric characteristics of, 25:37677
implantation in silicon for multilayer device fabrication, 25:22596(T) (JPRS-52565, pp 16-31)
implantation in silicon for use as charged-particle detectors, 25:57749
implantation in silicon wafers, fabrication of radiation detectors by, 21:28223
implantation in silicon, annealing effects on, 25:19777
implantation in silicon, carrier profiles from, 24:12880
implantation in silicon, effects of amorphous phase on electric properties and distribution of, 25:38566
implantation in silicon, effects of bombardment temperature on, (E), 22:26493
implantation in silicon, effects of channeling on, (E), 22:26490
implantation in silicon, electrical properties before and after annealing, 25:19778
implantation in silicon, for fabrication of radiation detectors, 24:5885 (EUR-4269, pp 193-220)
implantation in silicon, kinetics of annealing of defects induced by, 25:7450
implantation into diamond, use of characteristic x rays to study annealing of, 23:32570
implantation into silicon at 20 keV, characterization of junctions produced by, 24:51785 (CEA-R-3882)
implantation into silicon substrates, effect of annealing and temperature on, (E), 24:18018
implantation profiles in silicon, junction depth measurements, 24:18027
implantation range in copper at 60 keV, 24:19400
implantations in silicon at 15 keV, electric capacitance of, 25:18857
production by calutron-type ion source, 25:20169
radiative lifetimes of ultraviolet multiplets in, (E), 21:6993
radii in fluorides and oxides, 24:188
range of phosphorus-32 at 0.1 to 1.0 MeV in oriented tungsten single crystals, electronic and nuclear stopping in, (E), 21:40092
ranges and stragglings in silicon at 20 to 400 keV, calculations of, 25:59116
ranges in gold above 100 keV, measurement using chemical film technique, 22:26223
reactions with alkali metal chlorides at 5 to 500 keV, chemical study of phosphorus distribution from, 21:40109
reactions with argon at keV energies and large angles, inelastic energy losses in, (E), 25:24889
reactions with argon at keV energies, energy loss distributions and inner-shell excitation in, (E), 23:36517
reactions with n-type silicon, temperature effects on current carriers in, (E), 22:15641
reactions with nitrogen molecules at 10, 200, and 300 keV, cross sections for single and double electron loss in, (E), 25:30300
reactions with silicon at 25 to 150 keV, distribution of implanted atoms produced by, (T), 21:13627
reactions with silicon at 30 keV, p-n junction analysis for, 21:5115
reactions with silicon, implantation range in, 23:46589
scattering by argon at 12 to 100 keV, relation between inelastic energy values and cross sections for, (E/T), 23:5217
spectra of P XII, intercombination-line oscillator strengths in, (T), 21:26992
spectra of, bibliography on analyses of optical, 24:44991 (NBS-SPEC. PUBL-306-1)
spectral emission lines of P VI to XIII, classification of, (E), 24:28032
use for doping silicon by ion implantation at 1 to 2.5 MeV, 22:16862
use for fabricating semiconductor radiation detectors by ion-implantation, 22:323

PHOSPHORUS ISOTOPES
activity in barley and rice seeds following neutron irradiation, effects of storage on, 23:6426
content of human diet, 21:43405
effectiveness for radiodiagnosis or radiotherapy in man, 25:29573
effects on strontium-90 content of fish in freshwater containing stable, 23:22248(T) (AEC-tr-6944, pp 227-34)
energy-level parameters for, data compilation for, (E), 22:9819
incorporation into nucleic acids of frog eggs for studies on nucleic acid metabolism, 25:26617
photochemical transformations of radio-, in 5-MeV proton-irradiated potassium chloride, 21:31482
production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
radioactivity standards of, users' guides for, 25:29174

PHOSPHORUS ISOTOPES P-28
beta decay scheme of, half-life and β and γ spectra for, (E), 22:13971
decay scheme, (E), 22:32520
energy levels from silicon-28 (He-3,t) reactions, (E), 21:11991(R) (UCOL-535-561)
energy levels of, calculations using SU(3) representation with exchange forces, 21:31865
energy-level transitions from silicon-28 (p,n) reactions, (E), 25:38972(R) (COO-535-620)
mass of ground state of, (E), 22:13971
nuclear mass excess from reaction Q-value measurements, (E), 22:9845

PHOSPHORUS ISOTOPES P-29
beta decay of, half-life for, 24:47626
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
Coulomb energy differences between phosphorus-29—silicon-29 isobaric analog states, 25:28243
energy level at 3.446 MeV from silicon-28 (p,γ) reactions, (E), 25:10016 (ANU-P-503)
energy level at 3.446 MeV from the silicon-28 (p,γ) reaction, search for, (E), 25:31250
energy level at 4081 keV from silicon-28 (p,γ) reactions, total angular momentum of, (E), 24:20361
energy level from silicon-28 (p,γ) reaction, T = 3/2, (E), 22:53149
energy level of, Doppler shift attenuation method measurement of lifetime of first excited, 24:1784
energy levels from aluminum-27 (He-3,n) reactions, isobaric analog, (E), 22:26932(R) (NP-17434)
energy levels from aluminum-27 (He-3,n) reactions, T = $^{3}/_{2}$, (E), 24:6826 (IAE-1764)
energy levels from phosphorus-31 (p,t) reactions at 40 MeV, (E), 21:31710 (RHEL/R-136, pp 52-88)
energy levels from phosphorus-31 (p,t) reactions at 40.3 MeV, isobaric analog, (E), 21:25470
energy levels from proton scattering by silicon-28, widths for isobaric analog, (E), 23:25878
energy levels from proton scattering by silicon-28, widths for, (E), 23:7275
energy levels from silicon-28 (d,n) reactions at 4 MeV, (E/T), 21:29927
energy levels from silicon-28 (d,n) reactions, lifetimes of, (E), 25:53662(R) (COO-1468-9)
energy levels from silicon-28 (d,n) reactions, spins, parities, and branching ratios for, (E), 24:13316
energy levels from silicon-28 (He-3,d) reactions, proton widths of, (E), 21:7753
energy levels from silicon-28 (He-3,d) reactions, spectroscopic factors for, (E), 24:18367(R) (COO-535-603)
energy levels from silicon-28 (p,γ) reactions, (E), 25:5633
energy levels from silicon-28 (p,γ) reactions, lifetimes, spin assignments, and γ branching ratio, (E), 25:20357
energy levels from silicon-28 (p,γ) reactions, lifetime measurements for, (E), 24:43232
energy levels from silicon-28 (p,γ) reactions, lifetimes for, (E), 25:20319
energy levels from silicon-28 proton elastic and inelastic scattering, isospin-forbidden analog, (E), 22:18163
energy levels from silicon-28 proton elastic and inelastic scattering, (E), 22:27051
energy levels from silicon-29 (d,n) reactions, (E), 21:4262
energy levels from sulfur-32 (p,αγ) reactions, spin—parity assignments for, (E), 25:12480
energy levels of, analysis using unified model, (T), 24:24530
energy levels of, calculation using projected Hartree—Fock basis and core-particle coupling, (T), 25:28280
energy levels of, effects of vibration-particle coupling on properties of low-lying, (T), 24:38149
energy levels of, lifetime measurements using Doppler-shift attenuation method, (E), 24:1789
energy levels of, lifetimes from Doppler-shift attenuation for, (E/T), 25:17821
energy levels of, mean lifetimes of, (E), 24:52535
energy-level transitions from silicon-28 (p,γ) reactions, multipole mixing ratios for, (E), 25:20319

energy-level transitions from sulfur-32 (p,αγ) reactions, gamma branching and mixing ratios and strengths for, (E), 25:12480
energy-level transitions from T = 3/2 states, multipolarities of, (E), 22:48507(R) (ANL-7436)
energy-level transitions in, single-particle-model, shell-model, and Nilsson-rotational-model analysis of matrix elements for, (E/T), 25:17821
nuclear deformation parameter from rotational-model analysis of, (E/T), 25:17821

PHOSPHORUS ISOTOPES P-30
beta and electron-capture decay of, K-capture—β^+-emission ratio and spectra from, (E), 25:48065
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy level at 0.709 MeV from aluminum-27 (α,n) reactions, lifetime of, (E), 25:17750
energy level at 2.938 MeV, lifetime and transition strength for, (E), 24:26604
energy levels at 1.453 and 1.974 MeV, lifetimes for, (E), 25:59771
energy levels at 2.73 and 2.94 MeV from phosphorus-31 (p,d) reactions, spin—parity assignment for, (E), 23:32901 (PUC-937-350)
energy levels from (d,α) reactions, spin assignments for, (E), 24:3891
energy levels from (p,d) reactions, spectroscopic factors for, (E), 24:20368
energy levels from aluminum-27 (α,n) reactions at 85 MeV, lifetimes of excited, (E), 25:17777
energy levels from aluminum-27 (α,n) reactions, lifetimes of, (E), 25:31279
energy levels from aluminum-27 (α,n) reactions, lifetimes of, (E), 25:43879
energy levels from μ-meson capture by sulfur-32, spin—parity assignments for, (E), 23:32920
energy levels from phosphorus-31 (He-3,α) reactions, (E), 24:22110
energy levels from phosphorus-31 (p,d) reactions, spectroscopic factors for, (E), 23:46952
energy levels from phosphorus-31 (p,d) reactions, spin—parity assignments for, (E), 23:32901 (PUC-937-350)
energy levels from resonances in silicon-29 proton scattering and capture, (E), 24:10941 (ANU-P-464)
energy levels from silicon-28 (α,d) reactions, (E), 21:7750
energy levels from silicon-28 (He-3,p) reactions, spin—parity and isospin assignments for, (E), 25:38962
energy levels from silicon-28 (He-3,p) reactions, (E), 25:3602
energy levels from silicon-28 (He-3,pγ) reactions at 6.2 MeV, (E), 22:29966
energy levels from silicon-29 (d,p) reactions, (E), 25:3606
energy levels from silicon-29 (He-3,d) reactions at 15 MeV, spin—parity assignments and spectroscopic factors for, (E/T), 25:5670
energy levels from silicon-29 (p,γ) reactions at 1.375 MeV, isobaric analog, (E), 21:42600
energy levels from silicon-29 (p,γ) reactions at 700 to 1750 keV, (E), 21:31754
energy levels from silicon-29 (p,γ) reactions, (E), 22:32513(R) (ANU-P-400)
energy levels from silicon-29 (p,γ) reactions, isobaric analog, (E), 24:28747
energy levels from silicon-29 (p,γ) reactions, lifetimes and spin-parity assignments for, (E), 24:15846
energy levels from silicon-29 (p,γ) reactions, lifetimes of, (E), 25:45953
energy levels from silicon-29 (p,γ) reactions, lifetime measurements using Doppler shift attenuation method, (E), 25:14933
energy levels from silicon-29 (p,p) and (p,p') reactions, spin-assignments for, (E), 24:40597
energy levels from silicon-29 (p,p), (p,γ), and (p,p'γ) reactions at 1.2 to 3.1 MeV, (E), 21:29935
energy levels from silicon-29 proton resonances, widths for, (E), 25:1726
energy levels from silicon-29(p,γ) reactions, resonance and bound, (E), 25:28207 (ANU-P-517)
energy levels from silicon-30 (He-3,t) reactions at 16 and 30 MeV, (E), 25:12498
energy levels from sulfur-32 (d,α) reactions, spin assignments for, (E), 23:39941(R) (NP-17890)
energy levels of, calculation for negative-parity, (T), 24:43257
energy levels of, calculation using collective model with Coriolis coupling, (T), 25:12482
energy levels of, calculation using strong-coupling rotational model, (T), 25:20353
energy levels of, calculations using shell model with jj-coupling approximation, (T), 22:27241
energy levels of, lifetime measurements using Doppler-shift attenuation method, (E), 21:35449
energy levels of, lifetimes of, (E), 24:43230
energy levels of, shell-model calculations of spectroscopic factors for, (T), 23:1831
energy-level scheme from silicon-29 (p,γ) reactions, (E), 25:53608(R) (NP-18698)
energy-level scheme from silicon-29 (p,γ) reactions, (E), 25:59760
energy-level transitions from silicon-29 (p,γ) reactions, (E), 22:29951
energy-level transitions in, many-particle shell model calculation of strengths and multipole mixing ratios for, (T), 25:38951
nuclear electric quadrupole and magnetic dipole moments of, calculation using many-particle shell model, 25:38951
nuclear properties of, calculations using symmetric-core collective model, (T), 23:15502
production by proton irradiation of phosphorus-31 at 20 to 190 MeV, cross sections for, 21:36553 (AD-636647)

PHOSPHORUS ISOTOPES P-31
abundance in stars, (T), 25:6973
alpha elastic and inelastic scattering at 25 MeV, angular distributions for, (E), 22:48502
alpha elastic and inelastic scattering at 26.5 MeV, angular distributions for, (E), 24:43253
alpha elastic and inelastic scattering at 26.5, differential cross sections for, (E), 24:40571 (INP-699)
alpha elastic scattering by, excitation functions for, (E), 25:12442
alpha reactions (α,d) at 18.7 MeV, angular distributions and spectra for, (E/T), 21:13833
alpha reactions (α,d) at 18.7 MeV, DWBA analysis of differential cross sections for, (E), 22:27084
alpha reactions (α,n) with, cross sections and excitation functions for (E), 24:52527
alpha reactions (α,n) with, threshold energies and excitation functions for, (E), 25:12442
alpha reactions (α,nγ) at 8 to 11 MeV, gamma spectra from, (E), 25:50691
alpha reactions (α,p) at 1.7 to 3.3 MeV, resonances in, (E), 21:11986 (NP-16461)
alpha reactions (α,p) at 11.0 MeV, p—γ angular correlations from, (E), 25:20348
alpha reactions (α,p) at 13.0 to 15.7 MeV, cross-section fluctuation analysis for, (E/T), 21:13810
alpha reactions (α,p) at 19 MeV, DWBA analysis of differential cross sections for, (E), 23:3944
alpha reactions (α,p) at 3.2 to 4.5 MeV, angular distributions for, (E), 24:40577 (SUNI-10)
alpha reactions (α,p) at 8.5 MeV, triple γ-γ angular correlations from, (E), 22:46729(R) (AECL-3157)
alpha reactions (α,pγ) at 7.7 and 8 MeV, p-γ angular correlations from, (E), 24:38151
alpha reactions (α,pγ) at 9.5 MeV, gamma angular distributions and polarizations from, (E), 25:53676
chemical shifts in phosphonates, effects of organic substituents on, 21:27953
determination by pulsed neutron activation and scintillation counting, 25:12960
deuteron elastic scattering at 11.8 MeV, optical model analysis of, (E/T), 24:30728
deuteron elastic scattering at 8 and 12 MeV, optical-model analysis of angular distributions from, (E), 25:28270
deuteron elastic scattering by, optical-model analysis including spin-orbit interaction, (T), 24:28721
deuteron inelastic scattering at 8 to 12 MeV, angular distributions for, (E), 24:20370
deuteron reactions (d,α) at 10 to 12 MeV and at 34 MeV, analysis using DWBA and cluster-transfer approximation, (E/T), 24:10930
deuteron reactions (d,α) at 10 to 12 MeV, DWBA analysis of angular distributions for, (E/T), 23:19159 (ORO-2972-88)
deuteron reactions (d,α) at 10 to 12 MeV, two-nucleon transfer in, (E), 23:19253(R) (ORO-2972-80)
deuteron reactions (d,α) at 10.1 MeV, differential cross sections for, (E), 23:39999
deuteron reactions (d,α) at 33.7 MeV, DWBA analysis of differential cross sections for, (E/T), 23:19159 (ORO-2972-88)
deuteron reactions (d,α) at 34 MeV, angular distributions for, (E), 23:19253(R) (ORO-2972-80)
deuteron reactions (d,α) at 5.4 to 7.3 MeV, fluctuation analysis of excitation function for, (E), 23:19253(R) (ORO-2972-80)
deuteron reactions (d,α) at 5.5 to 12.0 MeV, alpha angular distributions and yields from, (E), 21:13796(R) (ORO-2972-25)
deuteron reactions (d,α) at 7 to 12 MeV, fluctuation analysis of cross sections for, (E), 23:1847
deuteron reactions (d,α) at 7 to 12 MeV, fluctuation analysis of, (E), 22:11949(R) (ORO-2972-47)
deuteron reactions (d,α) at 7.3 to 12.0 MeV, fluctuation analysis of cross sections for, (E/T), 23:15390
deuteron reactions (d,α) at 9.5 MeV, differential cross sections for, (E), 21:2702
deuteron reactions (d,He-3) at 34 MeV, angular distributions for, (E), 23:5838
deuteron reactions (d,n) at 4.9 MeV, sulfur-32 isobaric analog levels from, (E), 22:26966
deuteron reactions (d,n) with, angular distributions and spectra from, (E), 21:12013(R) (EANDC(OR)-44(L))
deuteron reactions (d,nγ) at 4.0 MeV, gamma and neutron spectra from, (E), 25:17851
deuteron reactions (d,p) below Coulomb barrier, angular distributions for, (T), 22:39716
effects of ion beams of, on diamond surfaces, 22:46246
electron reactions up to 260 MeV, cross sections for, 23:21322
electron spin resonance spectra of gaseous atoms of, 25:36345
electron-capture ratio for, calculation of L/sub I//K, (T), 22:32496
electronic stopping cross sections in thin carbon films at keV energies, (E), 21:16814
energy level at 3.13 MeV, γ width for, (E), 22:53148
energy level at 3.13 MeV, width of, (E), 22:9824
energy level at 3.51 MeV, width for, (E), 23:52117
energy levels and transitions from proton capture in silicon-30 at 0.5 to 2.2 MeV, (E), 22:9823
energy levels and transitions from proton capture in silicon-30, (E), 22:1597(R) (COO-1120-68)
energy levels from (He-3,d) reactions and deuteron scattering, (E), 24:20370
energy levels from alpha elastic and inelastic scattering, (E), 24:40571 (INP-699)
energy levels from α inelastic scattering, deformation parameters for, (E), 22:48502
energy levels from decay of silicon-31 and sulfur-31, shell-model calculations for transition probabilities for, (T), 23:28285
energy levels from electron scattering at high energy, calculations using core-excitation model, 21:42585
energy levels from γ resonance scattering, (E), 25:38923 (JAERI-1205, pp 28-35)
energy levels from μ-meson capture by sulfur-32, spin—parity assignments for, (E), 23:32920
energy levels from photo-excitation, T = 3/2, (E), 24:49788
energy levels from proton inelastic scattering at 185 MeV, (E), 25:48060
energy levels from proton inelastic scattering, (E), 22:18140
energy levels from proton inelastic scattering, (E), 22:3609 (PUC-937-164)
energy levels from proton resonances in silicon-30, spin assignments and strengths for, (E), 25:28270
energy levels from silicon-28 (α,p) reactions, J dependence of, (E), 23:49378
energy levels from silicon-28 (α,p) reactions, lifetime measurements using Doppler shift attenuation, (E), 22:35285(R) (AERE-PR/NP-13)
energy levels from silicon-29 (He-3,p) and silicon-30 (He-3,d) reactions, (E), 23:15420
energy levels from silicon-29 (He-3,p) reactions, spin—parity and isospin assignments for, (E), 25:38962
energy levels from silicon-30 (He-3,d) reactions, l values, spectroscopic factors, and spin—parity assignments for, (E), 25:28270
energy levels from silicon-30 (He-3,d) reactions, (E), 24:13327
energy levels from silicon-30 (He-3,d) reactions, spectroscopic factors for, (E), 25:41202 (BARC-526)
energy levels from silicon-30 (p,γ) reactions, lifetimes and spin—parity assignments for, (E), 25:28270
energy levels from silicon-30 (p,γ) reactions, lifetime measurements using Doppler-shift attenuation method, (E), 23:15400
energy levels from silicon-30 (p,γ) reactions, multipole mixing ratios and spins of, (E), 22:27028
energy levels from silicon-30 (p,γ) reactions, spins of, (E), 22:26932(R) (NP-17434)
energy levels from silicon-30 (p,γ) reactions, spin—parity assignments for, (E), 23:13251
energy levels from silicon-31 (p,γ) reactions, lifetimes and spin—parity assignments for, (E), 23:15426
energy levels from sulfur-32 (d,He-3) reactions, (E), 22:5809(R) (ANL-7354)
energy levels from sulfur-32 (d,He-3) reactions, (E), 22:18174
energy levels from sulfur-32 (d,He-3) reactions, spectroscopic factors for, (E), 23:17103(R) (ANL-7481)
energy levels from sulfur-32 (d,He-3) reactions, spectroscopic factors and spin-parity assignments for, (E), 24:3892
energy levels from sulfur-32 (d,He-3) reactions, spectroscopic factors for low-lying, (E), 23:1882 (WASH-1093)
energy levels from sulfur-32 (n,d) reactions at 14 MeV, (E), 22:20528
energy levels of, analysis using unified model, (T), 24:24530
energy levels of, calculation using intermediate coupling model, 24:47625
energy levels of, calculations using shell model with jj-coupling approximation, (T), 22:27241
energy levels of, effects of vibration-particle coupling on properties of low-lying, (T), 24:38149
energy levels of, lifetime measurements using Doppler shift attenuation method, (E), 23:17090
energy levels of, shell-model calculations of spectroscopic factors for, (T), 23:1831
energy-level densities in, calculation of, (T), 23:47052
energy-level spins and transitions from silicon-30 (p,γ) reactions, (E), 21:46701
energy-level transition probabilities for isobaric analog states, shell-model calculations of M1, (T), 23:11074
energy-level transitions and widths from electron inelastic scattering at 50 MeV, (E), 21:21478 (AD-641115)
energy-level transitions from proton resonances in silicon-30, branching ratios for, (E), 25:28270
energy-level transitions from silicon-30 (p,γ) reactions, branching and mixing ratios for, (E), 25:28270
energy-level transitions from sulfur-32 (n,d) reactions, (E), 22:29978
energy-level transitions in, data on $7/2^- \rightarrow 7/2^-$, (E), 22:15967
energy-level transitions in, many-particle shell model calculation of strengths and multipole mixing ratios for, (T), 25:38951
energy-level widths from gamma resonant absorption at 7.90 and 8.20 MeV, (E), 22:15981
energy-level widths from silicon-30 (p,γ) reactions, (E), 21:27542
gamma resonance absorption in silicon-30 (p,γ) reactions, (E), 22:11948(R) (NP-17216)
helium-3 elastic scattering at 12 MeV, angular distribution for, (E), 23:10937(R) (COO-1120-78)
helium-3 elastic scattering at 15 MeV, angular distributions for, (E), 24:13327
helium-3 elastic scattering at 6 MeV, optical-model parameters for, (E), 23:7255
helium-3 elastic scattering at 6 MeV, optical-model analysis of, (E), 22:53134 (COO-1120-70)
helium-3 reactions (He-3,α) at 10 MeV, angular distributions for, (E), 24:22110
helium-3 reactions (He-3,d) at 12 MeV, angular distributions for, (E), 23:3985
helium-3 reactions (He-3,d) at 15 MeV, angular distributions for, (E), 24:13327
helium-3 reactions (He-3,n) with, neutron time-of-flight spectra for, (E), 22:26932(R) (NP-17434)
helium-3 reactions (He-3,p) at 12 MeV, angular distributions for, (E), 23:10937(R) (COO-1120-78)
helium-3 reactions (He-3,p) at 12 MeV, angular distributions and Q-value for, (E), 25:34059
helium-3 reactions (He-3,p) at 6 MeV, angular distributions for, (E), 22:53134 (COO-1120-70)
helium-3 reactions (He-3,p) at 6 MeV, collective effects in angular distributions for, (E), 23:7255

helium-3 reactions (He-3,p) at 8 MeV, collective effects in angular distribution of protons from, (E), 22:1597(R) (COO-1120-68)
helium-3 reactions (He-3,pγ) at 12 and 13 MeV, p-γ coincidence spectra from, (E), 25:56715
hyperfine structure of, in potassium tetrakis(trifluorophosphine)cobaltate, 21:21935
implantation of ions of, in diamonds, 23:42454
incorporation in hormones for metabolism studies in birds and mammals, 22:21404 (COO-301-150)
interactions with carbon-13 in dimethylphenylphosphine, spin-spin coupling constants for, 21:19715
neutron capture at 10 to 75 keV, γ spectra from, (E), 25:46015
neutron capture at 14.1 MeV, γ spectra and cross section for, (E), 24:8872
neutron capture at 20 to 80 keV, cross sections for, (E), 25:5603 (FOA-4-4440)
neutron capture by, gamma spectra and widths for, (E), 21:44655
neutron capture by, gamma spectra from resonance, (E), 24:47619
neutron capture by, mean gamma multiplicity from thermal, (E), 24:10983
neutron capture by, phosphorus-32 energy levels from thermal, (E), 21:25482
neutron capture cross sections at 14.7 MeV, (E), 21:13839
neutron capture cross sections of, thermal, (E), 21:7759
neutron capture using polarized beams, γ circular polarization from thermal, (E), 22:39613
neutron differential elastic and inelastic scattering cross sections at 5.95 MeV, (E/T), 22:32526
neutron dose response of activation detectors of, 23:47747
neutron elastic and inelastic scattering at 7.96 and 9.05 MeV, cross sections for, (E/T), 25:59770
neutron elastic scattering at 7 MeV, analysis of spin—spin interactions in, (T), 23:40131
neutron inelastic scattering at 14 MeV, differential cross sections, (E), 25:3612
neutron inelastic scattering at 14.2 MeV, angular distributions for, (E), 24:15824
neutron inelastic scattering at 14.5 MeV, gamma spectra from, (E), 23:47798
neutron inelastic scattering at 2.8 MeV, γ-ray production cross sections for, (E), 23:49398 (WASH-1127)
neutron inelastic scattering at 4.7 and 5.5 MeV, γ spectra from, (E), 22:35285(R) (AERE-PR/NP-13)
neutron reactions (n,2n) at 14.7 MeV, cross sections for, (E), 21:7715
neutron reactions (n,2n) at 14.8 MeV, cross sections for, (E), 22:29973
neutron reactions (n,α) at 14.7 MeV, cross sections for, (E), 21:7715
neutron reactions (n,α) in fission spectrum, average cross sections and effective threshold for, 23:15402
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron reactions (n,p) at 1.0 to 2.2 MeV, cross section for, (E), 22:18195
neutron reactions (n,p) at 14.7 MeV, cross sections for, (E), 21:7715
neutron reactions (n,p) with, cross sections and threshold energy for cosmic, (T), 21:14930(R) (ORO-3235-12)
neutron reactions (n,p) with, excitation functions for measuring fission-neutron spectra, (E), 21:44645
neutron reactions (n,p), measurement of neutron yields from deuteron reaction (d,n) on deuterium using, 21:38264
neutron reactions (n,xγ) at 14 MeV, cross sections for, (E/T), 25:14920(T) (BNL-tr-380)
neutron reactions at 14.5 MeV, deviations of total cross sections from black nucleus formula, (E), 23:23639
neutron scattering at 14 MeV, double-scattering correction to angular distributions for, (T), 21:38382
neutron total cross section at 0.4 to 1.2 MeV, 22:39575 (CEA-R-3279)
neutron total cross section at 14.5 MeV, (E), 24:38104
nuclear charge distributions from μ-mesic x-ray spectra, (E), 22:5778
nuclear electric quadrupole and magnetic dipole moments of, calculation using many-particle shell model, 25:38951
nuclear magnetic moment of, shell-model calculation for, (T), 23:28285
nuclear magnetic resonance in organic phosphors, 23:14888
nuclear magnetic resonance in paramagnetic state of uranium monophosphide, 21:37608
nuclear magnetic resonance in paramagnetic uranium phosphide, Knight shift as function of temperature in, (E), 22:3182
nuclear magnetic resonance in paramagnetic uranium phosphides, Knight shift in, (E), 22:3181
nuclear magnetic resonance in paramagnetic uranium phosphide—uranium sulfide solid solutions, Knight shifts, 23:3560
nuclear magnetic resonance in rotating solid aluminum, magnesium, and zinc phosphides, (E), 21:25175
nuclear magnetic resonance in thorium phosphide at 77 to 300°K, 23:1537
nuclear magnetic resonance in transition-metal phosphides, (E), 22:17807
nuclear magnetic resonance in uranium monophosphide, 25:59189
nuclear magnetic resonance in uranium phosphide—sulfide, correlation with magnetic ordering, 24:24183
nuclear magnetic resonance in uranium phosphide—uranium sulfide, 24:10645
nuclear magnetic resonance in uranium phosphides, 24:25725 (ANL-7417, pp 85-104)
nuclear magnetic resonance line shifts in uranium phosphide and its solid solutions with uranium sulfide, 25:36350
nuclear magnetic resonance measurements in PtP_2, 22:39202
nuclear magnetic resonance of, in antiferromagnetic state of metallic uranium monophosphide, (E), 23:51810
nuclear magnetic resonance spectra in uranium phosphide—uranium sulfide, effects of powder inhomogeneity on, 23:44544
oxygen-16 reactions (O-16,pnγ) at 34 and 36 MeV, p-γ and γ-γ coincidence spectra from, (E), 25:56693
photon reactions (γ,2p) and (γ,2pn) at 23 to 62 MeV, cross sections for, (E), 25:3634
photon reactions (γ,2p), use for energy calibration of electron accelerator, 24:26562
photon reactions (γ,n) at 0.002 to 3.5 MeV above threshold, differential and integrated cross sections for, (E), 23:28304 (WASH-1124)
photon reactions (γ,n) at 100 to 800 MeV, excitation functions for, (E/T), 25:9977 (LUNP-7009)
photon reactions (γ,n) at 103 MeV bremsstrahlung endpoint energy, neutron spectra and angular distributions from, (E), 23:7245 (SAL-9)
photon reactions (γ,n) at 103 MeV endpoint energy, angular distributions and neutron spectra for, (E), 23:7277
photon reactions (γ,n) at 150 to 950 MeV, mesonic contributions to, (T), 25:50825
photon reactions (γ,n) at 21.5 and 25.5 MeV, analysis for isospin effect in, (E/T), 25:59765
photon reactions (γ,n) near threshold, (E), 23:1882 (WASH-1093)
photon reactions (γ,n) up to 20 MeV, differential cross sections and threshold for, (E), 23:3940 (UCRL-50501)
photon reactions (γ,n) up to 30 MeV, cross section for, (E), 25:31242
photon reactions (γ,n) with, cross sections and time-of-flight spectra for, (E), 22:7663
photon reactions (γ,n) with, isospin population of giant resonance in, (E), 25:38880 (JAERI-1205, pp 17-21)
photon reactions (γ,p) at 17 to 24 MeV endpoint energy, proton angular and energy distributions for, (E), 22:27076
photon reactions (γ,p) at 19 MeV, proton angular and energy distributions for, (E), 22:53158
photon reactions at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
photon reactions at 200 to 250 MeV, yields from, (E), 24:20352
photon reactions at 30 to 70 MeV, yields from, (E), 24:20354
photon reactions up to 260 MeV, cross sections for, (E), 23:21322
photon reactionss (γ,n) at 26 MeV, photoneutron spectra from, (E), 25:5648
photon resonance scattering by, γ spectra from, (E), 25:38923 (JAERI-1205, pp 28-35)
photon scattering by, resonance, (E), 22:53148
proton capture at 9.5 to 11.5 MeV, excitation functions and reaction mechanism for, (E), 24:8870
proton capture by the 1.248-, 1.438-, 1.556-, and 1.583-MeV resonances of, angular distribution, lifetime, and branching ratio measurements on, (E), 23:40028
proton capture by, angular distributions for resonance, (E), 23:42898
proton differential elastic scattering cross section at 1.0 to 3.8 MeV, (E), 22:24841
proton differential elastic scattering cross section at 1.99 to 2.05 MeV, (E), 22:20516
proton differential inelastic scattering cross sections at 17.5 MeV, (E), 22:18140
proton elastic scattering at 3.150 to 3.300 MeV, excitation functions and angular distributions from, (E), 25:17774 (NP-18623)
proton elastic scattering at 8 to 10 MeV and 30 to 160°, optical-model and Hauser—Feshbach analysis of angular distributions and excitation functions from, (E/T), 24:52472 (NP-18444)
proton elastic scattering at 8 to 10 MeV, analysis for reaction mechanism in, (E/T), 24:10914 (ANU-P-476)
proton elastic scattering at 8 to 10 MeV, analysis of reaction mechanism in, (E/T), 24:35845
proton elastic scattering at 8 to 10 MeV, excitation functions for, (E), 23:28242(R) (ANU-P-434)
proton elastic scattering at 8 to 10 MeV, excitation functions for, (E), 23:13224 (ANU-P-418)
proton elastic scattering at 8 to 10 MeV, excitation functions for, (E), 23:17096
proton elastic scattering at 8.0 to 8.2 MeV, analysis of compound and direct processes from differential cross section measurements of, (E), 23:40017
proton elastic scattering at 8.0 to 8.2 MeV, angular distributions for, (E), 23:32909 (ANU-P-442)
proton elastic scattering at 8.0 to 8.2 MeV, angular distributions and excitation functions for, (E), 22:32513(R) (ANU-P-400)
proton elastic scattering by, factors limiting resolving power of silicon spectrometers in study of, 23:671 (CEA-R-3415)
proton inelastic scattering at 17.5 MeV, (E), 21:2646
proton inelastic scattering at 185 MeV, angular distributions and proton spectra from inelastic, (E), 25:48060
proton inelastic scattering at 3.150 to 3.300 MeV, excitation functions for, (E), 25:17774 (NP-18623)
proton inelastic scattering at 5.8 and 6.6 MeV, proton—gamma angular correlations from, (E), 24:38134
proton reactions (p,α) a 5.8 to 11.5 MeV, cross sections and α angular distributions from, (E), 25:17726
proton reactions (p,α) and (p,γ) at 3.150 to 3.300 MeV, excitation functions for, (E), 25:17774 (NP-18623)
proton reactions (p,α) at 1 to 2 MeV, differential cross sections and spectra for, (E), 22:20516
proton reactions (p,α) at 1 to 5.5 MeV, differential cross sections and energy levels of sulfur-32 from, (E), 21:23452
proton reactions (p,α) at 1 to 5.7 MeV, angular distributions for, (E), 21:13796(R) (ORO-2972-25)
proton reactions (p,α) at 1.0 to 2.0 MeV, silicon spectrometer for studying, 23:671 (CEA-R-3415)
proton reactions (p,α) at 1.0 to 3.8 MeV, angular distributions for, (E), 22:24841
proton reactions (p,α) at 1.4 to 1.9 MeV, angular distributions and excitation functions for, (E), 21:25487
proton reactions (p,α) at 1.4 to 1.9 MeV, sulfur-32 energy levels from, (E), 21:46699
proton reactions (p,α) at 200 to 850 keV, resonances in, (E), 21:11986 (NP-16461)
proton reactions (p,α) at 8 to 12 MeV, excitation functions for, (E), 23:7262
proton reactions (p,α) at 8.5 to 12.3 MeV, fluctuation analysis of, (E), 22:11929
proton reactions (p,α) with, excitation functions and alpha spectra for, (E), 21:33901 (ANL-7289)
proton reactions (p,α) with, spin mixing in entrance channels for, (E/T), 22:48506
proton reactions (p,α), (p,γ), and (p,p) at 2114 keV, compound nucleus decay from, (E/T), 24:52541
proton reactions (p,d) and (p,t) with, differential cross sections for, (E), 22:30048(R) (PUC-937-307)
proton reactions (p,d) at 17.5 MeV, angular distributions for, (E), 23:32901 (PUC-937-350)
proton reactions (p,d) at 17.5 MeV, angular distributions for, (E), 24:20368
proton reactions (p,γ) at 1.436 MeV, γ linear polarization from, (E), 23:13229
proton reactions (p,γ) at 1.555 MeV, energy levels of sulfur-32 from, 25:20326
proton reactions (p,γ) at 1.8 to 2 MeV, analysis of resonances in, (E), 25:20308
proton reactions (p,γ) at 2 to 2.4 MeV, gamma spectra from, (E), 24:43198
proton reactions (p,γ) at 2.1 MeV, excitation functions and spin-mixing coefficients from, (E), 25:5636
proton reactions (p,γ) with, angular distributions and excitation functions for, (E), 25:17853
proton reactions (p,He-3) and (p,t) at 40 MeV, angular distributions and spectra for, (E), 21:31710 (RHEL/R-136, pp 52-88)
proton reactions (p,t) and (p,He-3) at 40.3 MeV, analog states from, (E), 21:25470
proton reactions (p,t) at 17.5 MeV, angular distributions for, (E), 23:32901 (PUC-937-350)
proton reactions (p,t) at 17.5 MeV, angular distributions for, (E), 24:20368
proton reactions with, at 20 to 190 MeV, cross sections for phosphorus-30 production by, 21:36553 (AD-636647)
reactions of recoil atoms of, with adenosine, yields of AMP from, 24:46248
reactions of recoil, from beta decay of silicon-31 with adenosine, preparation of adenosine 2'-, 3'- and 5'-monophosphates from, 25:51540
spectra in thorium and uranium phosphides, NMR relaxation, 23:27715
spectra of NMR, 21:23265
spectra of NMR, (E), 21:21894
spectra of, NMR, 23:44562
triton reactions (t,p) at 12 MeV, shell-model analysis of angular distributions for, (E/T), 23:25886
triton reactions (t,pγ) at 2.45 and 3.10 MeV, energy levels from, (E), 24:52523
use of ions of, for preparation of n—p silicon junctions, 23:11761 (RT/EL-(68)11)

PHOSPHORUS ISOTOPES P-32
absorption by leaves following foliar and soil application, 22:49190
abundance in Barwell and St. Severin meteorites, neutron-produced, (E), 21:6913
abundance in Saint-Severin meteorite, 22:43753
accumulation by eggs of fish, effects of stage of development on intensity of, 25:21576
accumulation by fishes in East Germany, 24:48468 (SZS-7/70)
accumulation by marine phytoplankton, mechanisms of, 25:55154
accumulation from bacteria, sediment, and water by tubificid worms, 23:17974 (CONF-670503-, pp 270-7)
accumulation in brain of man, effects of polycythemia on, 22:21429
accumulation in human female reproductive system, 25:35144
accumulation of, by abiotic and biotic media of Nitelua River in Norway, 21:10749
activity in acid soluble phosphorus compounds, DNA, and RNA of goiter and thyroid carcinoma, 21:12781
activity in human bones and diet of children, derivation of maximum permissible, 21:14656
activity measurements in aqueous solutions, use of flow-through scintillation detectors with various phosphors for, 23:624
analysis for inactive phosphorus, 22:14433 (ORNL-4196, pp 66-89)
analysis for phosphorus-33, methods for, 22:35280
analysis for radioactive and other impurities, ASTM method for, 25:29002
analysis for trace impurities, spectrographic, 22:4055
analysis of phosphatide-incorporated, by computers, 21:45536
applicator for, design of plastic, 24:383
beta activity of, performance of Geiger-Mueller and scintillation counters for counting, 21:14433 (NP-16483)
beta activity of, scintillation counter for measuring, 23:9726
beta activity of, use of scintillators for measuring low energy, 21:14428 (CEA-R-3067)
beta decay in fast neutron-irradiated cadmium sulfide, effects on electric conductivity, E/T), 23:44510
beta decay of, angular distribution and energy spectra of internal bremsstrahlung emitted during, (E/T), 25:20417
beta decay of, beta spectra and half-life for, (E), 25:34050

beta decay of, beta spectra for, 23:38298 (RISO-195)
beta decay of, beta-particle longitudinal polarization in, (E), 21:23497
beta decay of, bremsstrahlung angular correlations and spectra for, (E), 22:9873
beta decay of, bremsstrahlung emission in, (T), 22:9958
beta decay of, bremsstrahlung yields from, (E), 21:15601
beta decay of, β spectra for, (E), 23:44911
beta decay of, double internal bremsstrahlung emission in, (E), 21:33948
beta decay of, Fermi—Kurie plot and shape factors from, (E), 25:36768
beta decay of, half-life for, (E), 24:10974
beta decay of, internal bremsstrahlung spectra for, (E), 23:44859
beta decay of, internal bremsstrahlung spectra for, (E), 23:44858
beta decay of, internal bremsstrahlung spectra from, (E), 24:49790
beta decay of, internal bremsstrahlung spectra from, (E), 25:20340
beta decay of, internal bremsstrahlung spectra from, (E), 21:7801
beta decay of, internal bremsstrahlung spectra from, (E), 21:17340(R) (AEET-267)
beta decay of, internal bremsstrahlung spectrum from, (E), 21:2678
beta decay of, internal bremsstrahlung spectrum from, (E), 21:2679
beta decay of, internal bremsstrahlung spectrum in, (E), 24:52485
beta decay of, longitudinal polarization of beta particles from, (E), 25:53803
beta dosimetry in bones using point source method, 22:19324 (AERE-R-5679)
beta emission by metabolite-incorporated, review of lethal and mutagenic effects of, 21:45832
beta emission by, counting efficiencies for Cherenkov radiation produced in nonaqueous media from, 23:35483
beta emission by, effects of internal, on connective tissue of gastrointestinal tract of fish, 22:33971
beta emission by, effects of, on activity of T1 phage and host Escherichia coli, comparison of lesions produced by, with γ and transmutation, 22:52041
beta emission by, effects of, on blood proteins of rabbits, protective effects of serotonin against, 22:40805
beta emission by, effects of, on body weight of mice, protective effects of glutathione against, 22:28571
beta emission by, effects of, on bone marrow and peripheral blood cells, quantitative dynamics of, 22:49582
beta emission by, effects of, on Chlorella vulgaris, mutagenic, 22:43291
beta emission by, effects of, on chromosomes in root tip cells of jute, 22:43279
beta emission by, effects of, on Coleus and Tradescantia, 22:40952 (ORO-657, pp 93-120)
beta emission by, effects of, on content of nucleic acids, nucleoproteins, and phosphorus in leaves of salvia, 22:36410
beta emission by, effects of, on FSH response of ovaries in Indian catfish, 22:45654
beta emission by, effects of, on growth and phosphorus level of buckwheat plants, 22:36408
beta emission by, effects of, on growth of millet, salvia, and soybeans, 22:36409
beta emission by, effects of, on hematopoiesis and liver in man, 22:33949
beta emission by, effects of, on immune response and leukemia incidence in man, 22:15032
beta emission by, effects of, on induction of early ripening of fruits and seeds of vegetable plants, 22:49308
beta emission by, effects of, on intrauterine death in mice following injection, 22:36386
beta emission by, effects of, on iodine-131 uptake by thyroid of man with polycythemia vera, 22:49615
beta emission by, effects of, on larvae of Drosophila, effects of ontogenesis on, 22:51931
beta emission by, effects of, on Lilium longiflorum and Zea mays, effects of pollen exposure on mutagenic, 22:31044
beta emission by, effects of, on long-chain fatty acids in rabbits, acute, 22:47482
beta emission by, effects of, on neoplastic metastases in lymph system of rabbit following lymphatic infusion, 22:51781
beta emission by, effects of, on platelet count of rabbits, 22:49522
beta emission by, effects of, on sodium, potassium-ATPase, calculation of molecular weight from, 22:33767
beta emission by, effects of, on structure of DNA in sperm of Drosophila, 22:28426
beta emission by, effects of, on transcription of messenger RNA from specific genes in Escherichia coli, 22:28376
beta emission by, measurement of, for diagnosis of cancer of human prostate, 22:38365
beta emission by, use of, for extracorporeal irradiation of human blood, 22:28533
beta emission by, use of, for radiotherapy of prostate neoplasms in dogs and man, 22:15030
beta emission from, effects on cistron function in labeled T4 bacteriophages, 21:26689
beta emission from, RBE in rats of external and internal, 22:23651
beta emission from, x-ray spectra from interactions with targets, (E), 21:860 (TID-22361(Pt.1))
beta emission in man, leukemogenic effects of, 22:36362
beta energy yield from, use of Geiger—Mueller detectors for determining, 22:6592
beta particle emission from, combined effects of anterior pituitary extract and, on functioning of rat adrenal cortex, 21:22341
beta particle emission from, effects of, on histology of endocrine glands in pregnant mice, 21:22738
beta spectra for $1^+ \rightarrow 0^+$ allowed transition in, (E), 22:50568
beta spectra for, endpoint energy of, (E), 22:24835(R) (BARC-305)
beta spectra from, shapes of nonunique and unique first-forbidden, 25:14976
beta spectra of, instrumental effects on Siegbahn—Slatis intermediate image spectrometer used for measuring, 23:11836
beta spectra of, measurement using intermediate-image spectrometer, 22:18212 (SGAE-PH-58/1967)
beta spectra, (E), 23:37169
bibliography on, 24:36208 (PAEC(A)IN-624(Suppl.1))
binding energy of, calculation using Brueckner—Hartree—Fock method, 24:43111
biosynthesis of adenine nucleotides labeled with, method for microbial, 23:7936
book: Materials on the Toxicology of Radioactive Matter (Calcium-45, Phosphorus-32, and Sulfur-35). Number 6, 23:43673
book: Methods of Preparing and Storing Labeled Compounds, 23:335
book: Phosphorus Isotopes in Oncological Diagnosis, 23:50712
channeling in indium antimonide at 40 to 120 keV, tracer study of distribution of, 25:19801
chemical properties of, produced by neutron reactions with sulfur, 21:1407
chemical states of recoil radiolytic, in alkali metal chlorides, 24:41332
chemical states of recoil, in irradiated potassium chloride single crystals, 24:18992
chemical states of recoil, in neutron-irradiated barium chloride doped with potassium chloride, 24:16572
chemical states of recoil, in neutron-irradiated potassium chloride doped with potassium hydroxide, 24:16571
chemical states of recoil, in neutron-irradiated phosphorus oxyacids, 25:21074
chemical states of recoil, in neutron-irradiated phosphorus oxyacids, 25:21073
clearance of sodium orthophosphate-incorporated, from human kidneys, effects of thyroid diseases on, 25:4451
compounds, preparation of standard atlas for properties of, 23:2842
concentration factors for diatoms, green algae, red algae, and plankton, 24:34225
concentration in neutron-irradiated tripolyphosphate by Szilard—Chalmers effect, 22:16591
content in atmosphere at Zugspitze, Germany, April to Dec. 1970, 25:10705(R) (NYO-4061-3)
content in atmospheric dust and precipitation in Germany, Nov. 1969, 24:9526(R) (NYO-4061-1)
content in Columbia River biota, effects of Hanford reactor closure on, 21:26407 (BNWL-SA-1248)
content in Columbia River fish, 22:18964 (BNWL-SA-1606)
content in environs of Hanford during 1965, 21:34649 (BNWL-316(App.))
content in farm produce in Richland, Wash., environs, 22:18964 (BNWL-SA-1606)
content in fish and oysters from Columbia River during 1965, 21:34649 (BNWL-316(App.))
content in ground-level atmosphere, measurement of air mass exchange from, 23:49953
content in man, effects of diet containing Columbia River fish on, 21:22461
content in plankton in Columbia River, 21:41426
content of animals, plants, and water in Columbia River during 1966 and 1967, 24:36726 (BNWL-1377)
content of Columbia River during 1968 to 1969, 25:42419
content of Columbia River water samples during 1967, 23:33702 (BNWL-983(App.))
content of Columbia River, effects of, on uptake by periphyton, 22:21591
content of commercial food and farm produce in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of cosmogenic, in ground-level atmosphere in Leningrad, 1963 to 1967, 24:11701(T) (AEC-tr-7128, pp 263-87)
content of cosmogenic, in ground-level atmosphere in USSR during 1965 to 1969, 24:41447
content of drinking water in environs of Hanford reactors, 22:16998 (BNWL-SA-1449)
content of drinking water in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of Drosophila females and males, effects of, on transfer to offspring, 22:23463
content of fallout, in ground-level atmosphere in Leningrad, 1963 to 1966, 24:11701(T) (AEC-tr-7128, pp 263-87)
content of fish from Columbia River, 22:19326 (BNWL-665)
content of fish in Columbia River, 24:39467 (RLO-2225-T-1-1)
content of fish, fruit, meat, milk, and vegetables in environs of Hanford reactors, 22:16998 (BNWL-SA-1449)
content of human diet, 21:43414
content of human foods in Richland, Wash., area during 1968, 25:521 (BNWL-1341(App.))
content of human hair and nails following neutron activation use of, for dosimetry, 23:6442(T) (NSJ-tr-118)
content of ingested, in blood of patients with liver diseases, ulcerative colitis, and endocrine disorders, 21:8695
content of meat following neutron activation, 24:39596(T) (ORNL-tr-2321)
content of muscles of fish from Columbia River during 1967, 23:33702 (BNWL-983(App.))
content of organisms in Columbia River, effects of reactor shutdown on, 22:10740 (BNWL-480, pp 153-93)
content of oysters from Willapa Bay during 1967, 23:33702 (BNWL-983(App.))
content of plant tissues, autoradiographic method for measurement of, 22:31070
content of seafood from British coastal waters during 1968, 24:21099 (FRL-5)
content of sewage and streams surrounding Delta Primate Center, 22:47544
content of upland game birds and waterfowl sampled in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of water and organisms at mouth of Columbia River, effects of cooling waters of Hanford reactors on, studies of invertebrates and algae for determining, 24:690 (RLO-2047-5, App. A)
content of, in Columbia River fish, 1965, 21:8790 (BNWL-316)
content of, in diet containing Columbia River fish, 21:8722
content of, in oysters from Columbia River mouth, 21:8790 (BNWL-316)
counting by liquid scintillation detectors, standardization for, singly or in combination with carbon-14 and tritium, 21:17885
decay in tissue, computer calculations of energy release and intensity for, use in dosimetry, 24:14492
decay products of, in Escherichia coli, effects of DNA synthesis in relation to genetic recombination in, 25:10946
decay schemes for, tables on, 23:33331 (BNL-13595)
deposition by rainwater from artificially contaminated clouds, (E), 24:9528(T) (UCRL-Trans-10412)
deposition of carrier-free, on preformed ionic solids, 23:35125
detection in radioecology studies, use of Cherenkov counting for, 25:2565
detection in radioisotope mixtures, autoradiographic method for, 21:32104
detection in solutions, flowthrough liquid scintillator for, 22:25644
detection of internally deposited, external scanning method for, 21:22510
detection of, methods for improving efficiency of autoradiographic, 22:49257
determination by beta counting, 21:45066
determination by scintillation counting of Cherenkov radiation, 24:20716
determination following colorimetric determination of phosphate using Cherenkov radiation, 24:4237
determination in air and rainwater, 22:35750
determination in aqueous solutions by liquid scintillation counting of Cherenkov radiation, 22:47085
determination in biological materials by liquid scintillation counting, 23:17360
determination in biological materials by liquid-scintillation counting in plastic bags, 24:5604
determination in biological materials by scintillation counting, 21:27924
determination in biological materials, Cherenkov detector for, 24:33910
determination in colored plant extracts by Cherenkov counting, 25:15517
determination in hair and nails of humans exposed to fast-neutrons, β-spectrometric, 23:15816
determination in labeled compounds by gas—liquid chromatography and counting, design of automatic apparatus for, 24:18910
determination in labeled organophosphorus compounds by radio-gas chromatography, 24:31248
determination in liquid scintillation counter by Cherenkov counting, 25:10491 (ORNL-4636, pp 20-33)
determination in liquid scintillation counter without use of scintillator, 22:16456
determination in liquids, sensitivity of G—M detectors for, 22:19116
determination in materials by column chromatography and radioactivity recording, 24:33644
determination in mixtures, sensitivity of anthracene scintillation beta spectrometer for, 24:27388
determination in neutron-irradiation sulfate solutions, using beta absorption, (E), 22:5790(T) (CEA-tr-A-1898)
determination in plant tissues, use of Cherenkov radiation detectors for, 23:7940
determination in plants, modification of counting method for, 24:46197
determination in RNA in slices of polyacrylamide gels by liquid scintillation counting, 25:31835
determination in tissues by activation methods, 22:47
determination in urine and water, radiometric method for, 23:49738
determination in urine by liquid beta counting, 23:19661 (STI/DOC-10/95)
determination in urine by precipitation of phosphate and β counting, 24:38749 (IA-1203)
determination in urine by radiochemical methods, 23:19661 (STI/DOC-10/95)
determination in urine, radiochemical method for, 22:44970 (AERE-AM-103)
determination in urine, use of Cherenkov effect and liquid scintillation detectors for, 23:11757 (EUR-4084)
determination in waste water and biological samples by solvent extraction using phosphomolybdic acid and counting, 21:25791
determination in water by beta counting using Cherenkov effect and liquid scintillation counters, 24:2142
determination in water by Cherenkov radiation counting using liquid scintillation spectrometer, 25:54438
determination in water, review on methods for, 23:26176
determination of neutron-activated, in RNA, 21:17960
determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
determination of, in atmospheric aerosol samples, use of isotope dilution in, 21:12365

determination of, in homogeneous samples in presence of carbon-14 and tritium, liquid scintillation standardization for, 21:15871
determination of, in phosphoric acid and potassium and sodium phosphate solutions by paper chromatography and scintillation counting, 21:10294
determination of, on filters containing suspended river sediments, 21:22364(R) (BNWL-235-2)
determination of, titration equipment for, by scintillation counting, 24:31243
determination on air filters during Project Stardust, radiochemical, 21:6489(R) (HASL-176)
determination on filters by dry counting using liquid scintillation counters, 23:17357
determination on strip chromatograms, scintillation method for, 21:10294
determination simultaneously with phosphorus-33 in aqueous solutions by combined Cherenkov and scintillation counting, 25:44365
determination using nomograms for estimating specific activity, 23:31302
diffusion in stratosphere of cosmic-ray produced, 21:6052
diffusion into calf erythrocytes, effects of antibody and sialic acid content of serum on, 25:18900
diffusion through capillaries in x-irradiated rats, effects of vasotrophic compounds and vitamins on, 22:49436
diffusion through tissues of rabbits, effects of traumatic shock on, 23:22192
dispersal in Chalk River waters during 1969, 24:41875 (AECL-3430, pp 19-31)
distribution in alkali metal chlorides following ion implantation at 5 to 500 keV, chemical study of, 21:40109
distribution in anions produced by neutron irradiation of ammonium and alkali metal salts of phosphorus oxyacids, 24:13978
distribution in biota, sediments, and water in Columbia River estuary, 21:39373(R) (RLO-1750-22(Vol.1))
distribution in Columbia River, 22:40614(R) (RLO-2047-2)
distribution in Drosophila pupae, following uptake by larvae of different ages, 22:23460
distribution in ecosystems of, mathematical model for determining, 21:12883
distribution in fractions of spinach chloroplasts, effects of light on, 24:557
distribution in lymphadenosis-afflicted man following injection into lymph node, spleen, or veins, 23:35629
distribution in man following intra-arterial injection, use of bremsstrahlung measurements to determine, 22:45393
distribution in Mytilus edulis, 25:4448
distribution in nucleotides of liver of rats, 23:31636
distribution in organs of rabbits following endoarterial introduction in cationic resin microspheres, 22:28609
distribution in rats, 23:38436
distribution in sediments and soils, 24:39038 (ORNL-4446, pp 1-8)
distribution in tissues in cat brain, tracer study of effects of edema on, 25:492
distribution in vascular hydrophytes, effects of redox potential of water on, 22:19299(R) (NYO-3018-18)
distribution in waters of British Isles following discharge by nuclear power plants, 24:34216
distribution of calcium phosphate-incorporated, in rats, 22:6743
distribution of chromic phosphate-incorporated, in rats, 22:6743
distribution of colloids of, in rabbits after intraportal injection, 21:6449
distribution of dipine incorporated, in rat organs, 25:32344
distribution of ferric phosphate-incorporated, in rats, 22:6743
distribution of ingested $CrPO_4$-incorporated, in gastrointestinal tract of rats, 22:49537
distribution of phosphate-incorporated, in roots of barley, effects of microorganisms on, 22:21414
distribution of recoils of, in neutron-irradiated ammonium dihydrogen phosphate, 23:11537
distribution of zirconyl phosphate labeled with, in mice, 21:3380
distribution of, in humans with liver neoplasms after intraportal injection, 21:6449
distribution of, in neutron-irradiated potassium chloride, effects of conditions of irradiation on, 21:4562
dosimetry for use in therapy, 21:28578
dosimetry in tissue equivalent phantoms, use of bremsstrahlung count to determine β, 23:6469
dosimetry of sealed sources of, in therapy, 21:10891
dosimetry of sodium acid phosphate-incorporated, in soft tissues of rats following inhalation, 21:4808
dosimetry of therapeutic, whole-body, 21:34693
dosimetry of tracer quantities of, in corn, 21:30921
dosimetry of, in brain and liver of polycythemia patients, 21:3386
effectiveness for diagnosis of gastric diseases following intravenous injection of sodium diphosphate, radiometric studies on, 25:16251
effectiveness for diagnosis of human skeletal tumors, comparison of strontium-85 and, 25:44847
effectiveness for endolymphatic therapy of human lymph system malignancies, 25:44861
effectiveness for intra-arterial therapy of brain and liver tumors, 25:49257
effectiveness for therapy of human bone metastases and myelomas, 25:44862
effectiveness for therapy of joint diseases in human bones by synovial injection, 25:26873
effectiveness for therapy of leukemia and polycythemia, 24:44577
effectiveness for therapy of polycythemia vera in man, 25:39895
effectiveness in therapy of bone metastases from carcinoma of human prostate, β, 24:14561
effectiveness of intraperitoneal injection of colloidal, for postoperative therapy of early cancer of ovary, 25:49258
effectiveness of Lipiodol-incorporated, for therapy of chronic lymphoid leukemia in man, 24:2759
effectiveness of sodium-phosphate-incorporated, for therapy of polycythemia, 25:35157
effectiveness of trioctyl phosphate-incorporated, for endolymphatic therapy in patients with lymphogranulomatosis and reticulosarcomatosis, 25:39896
effects of β decay of, on DNA synthesis in radiosensitive E. coli, 21:12794
effects of β particles from, on genetics of wheat, 21:20146
effects of concentrations of, on aerial parts and roots of peas, 21:12792
effects of disintegration of incorporated, on biological and physical properties of DNA, 25:16048
effects of graft and suture impregnation with, on thrombosis development in arteries of dogs, electronegative β, 24:34148
effects of internal parental irradiation with, on hematopoietic system of mice offspring, 21:6478
effects of soil content of, on growth of plants, 21:12792
effects of successive contamination with, on reproductive capacity of Artemia, 21:12970
effects of trace amounts of, on metabolism of cotton plants, factors affecting, 21:11123
effects of, on biochemical activity and growth of seedlings of Phaseolus vulgaris, 21:9021
effects of, on bone marrow cells and leukocytes, phase contrast microscope studies of, 21:14754
effects of, on chemical composition of aqueous meta- and pyrophosphoric acid solutions, 21:4486 (INR-726/XIII/C)
effects of, on course of some somatic diseases, 21:16489
effects of, on guinea pigs before and after tuberculin tests, 21:12934
effects of, on infection by and immunity to tubercle bacilli in mice, 21:11091
effects of, on polycythemia, complications from, 21:13023
effects of, on tuberculin reaction in polycythemia patients, 21:12934
effects on activity of alkaline phosphatase in human blood, 22:49216
effects on bacteriophages and Escherichia coli, 25:13612
effects on barley and rice seed, mutagenic β, 23:20159
effects on barley plants following seed exposure, effects of activity levels on, 25:47053
effects on biological and physical properties of pneumococcal DNA following incorporation, β, 25:29459
effects on blood in catfish, effects of thyrotropin on β, 25:590
effects on bone marrow cell counts in dogs and rats, comparison with effects of x rays, 21:20415
effects on bone marrow following use for therapy of prostate carcinoma, 25:13591
effects on bone marrow of man with myelosclerosis and polycythemia vera, 23:29849
effects on bones of rats, neoplastic β, 24:51061
effects on bones of rats, sarcomagenic β, 25:2594
effects on breeding of fruit flies following oral administration, 23:22355 (CONF-670649-7)
effects on carbohydrate metabolism following diagnostic use, 21:22347
effects on carcinogenesis in lungs of rats following implantation as pellets in bronchi, effects of dose on β and γ, 24:27676 (CONF-691001-, pp 321-51)
effects on cellular DNA recovery from β, 24:19375
effects on chick embryos, study of concentration changes to elucidate mechanism of β, 23:48224
effects on chicken embryos, role of transmutation in developmental, functional, and lethal β, 24:32213
effects on chlorophyll of rice in comparison with other radiations, mutagenic β, 24:21125
effects on chlorophyll production and seed sterility in barley, mutagenic, 25:39830
effects on chromosome crossing-over in yeast cells, 25:21664
effects on chromosome transfer in Escherichia coli, β, 23:48274
effects on chromosomes and pollen and seed fertility of M(1) generation of rice, 25:29496
effects on chromosomes in human lymphocytes in relation to dose, aberrant, 25:42399
effects on chromosomes in peripheral blood lymphocytes of man following use for therapy, cytogenetic and growth kinetic studies of aberrant, 25:49304 (CONF-710324-1)
effects on chromosomes of bone marrow cells in mice following prenatal exposure, aberrant β and γ, 24:48490
effects on chromosomes of Brassica, aberrant β, 24:48480
effects on chromosomes of man following use in therapy of polycythemia vera, aberrant β, 23:41487
effects on chromosomes of plants, review of aberrant β, 23:2815
effects on chromosomes of tomatoes, effects of seed exposure on, 21:43362
effects on Colletotrichum falcatum, mutagenic, 21:34636
effects on Colletotrichum falcatum, mutagenic, 21:34637
effects on Colletotrichum falcatum, mutagenic, 21:34638
effects on color and grain size in rice, mutagenic, 25:24117
effects on conjugation in Escherichia coli in comparison with effects of alpha particles, uv, and x, 24:2838
effects on content of serotonin in central nervous system of rats, 22:21417
effects on continuous cultures of KB cells, 25:13351
effects on coronary vessels of chick embryo, 23:14249
effects on Cosmos bipinnatus flowers, mutagenic β, 23:26763
effects on count of leukocytes and content of complement and lysozymes in blood of rabbits, protective effects of protamine against phosphorus-32 β, 23:50625
effects on cultured cells, evaluation of dose effects for continuous soluble, 23:50534
effects on cultures of Phylloxera gall and normal grape stem cells, effects of dose on, 25:32623
effects on development of carcinomas in lungs of rats following implants in bronchi, dose-response relations for β, 24:27676 (CONF-691001-, pp 321-51)
effects on development of chick embryo, effects of dose on, 23:38452
effects on development of myeloproliferative disease in man following use in therapy, 25:596 (CONF-680529-, pp 489-500)
effects on DNA following incorporation in biological materials, 24:27569 (CONF-690540-, pp 273-88)
effects on DNA following incorporation of β, 23:50334
effects on DNA of bacteria and bacteriophages, β, 23:48272
effects on DNA of bacteria and viruses, 25:44900
effects on DNA of phage phiX174, inhibitory, 25:13382
effects on DNA synthesis and mitotic index in regenerating rat liver, β, 23:6369
effects on Drosophila, role of transmutation in mutagenic β, 24:31925
effects on dry weight of clover following application to leaves and roots, 23:38415
effects on erosion, redeposition of sedimentary materials, and weathering, geochemical, 22:35936
effects on Escherichia coli and phage T4 in comparison to effects of phosphorus-33, 24:41796 (ANL-7635, pp 162-85)
effects on Escherichia coli, analysis of mutational heterozygotes following β, 23:48281
effects on Escherichia coli, effects of growth conditions on β, 24:34770
effects on fecundity and survival of Altica carduorum, 25:39792
effects on florescence and fruit yield of apple trees, β, 23:10117
effects on function and morphology of testes of rats, low dose β, 24:34691
effects on function and structure of nucleic acids in chicken embryos, role of transmutation in β, 24:32213
effects on function of nervous system of dogs, chronic latent β, 24:27688
effects on genetic characteristics of Saccharomyces cerevisiae, 21:20440(R) (TID-23502)
effects on germination and growth of buckwheat seeds, 25:47043
effects on gonads and hypothalmus of fetal mice, β, 24:34661
effects on gonads of mice following prenatal exposure, sterilizing β, 24:32220
effects on growth of cotton plants, 21:16526
effects on growth of dwarf peas, 25:10936 (UCB-34-P-23-15)
effects on hematopoiesis in bone marrow of dogs and rats following injection, 22:52009
effects on histology of gonads of mice, effects of prenatal exposure on, 24:44606
effects on human bone marrow and brain, development of neurological syndrome following, 24:50699
effects on human bone marrow following oral administration for therapy of polycythemia, 24:48727
effects on human chromosomes following use for therapy of polycythemia, aberrant β, 24:34246
effects on human skin following use for therapy of polycythemia, inflammatory, 24:48726
effects on immune reactions and phagocytic activity in rats following injection as chromium phosphate, 24:34151
effects on immune reactions of dogs following intralymphatic injection of, 23:48004
effects on immune reactions of rats, protective effects of serotonin against, 23:41265
effects on immune reactions to tissue transplants in dogs following intralymphatic injection, β, 23:29400
effects on incidence of blood diseases in man following use for therapy of polycythemia vera, β, 23:6599
effects on incidence of osteosarcomas in rats following intraperitoneal injection, 25:55335
effects on incorporation of carbon-14- and calcium-45-labeled glycine into bone and teeth, 21:22325
effects on incorporation of electron-irradiated phage into spores of Bacillus subtilis, 25:16386
effects on infectivity of TMV in tissue cultures of tobacco leaves, 25:24481
effects on iodine-131 uptake by thyroid gland of rats on high- and low-protein diets, 21:24344
effects on jute, effects of combined treatment with x rays on mutagenic, 21:20125
effects on leukemia induction following use for treatment of Polycythemia vera, 21:28600
effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
effects on lymph nodes in rabbits following endolymphatic therapy of V2 carcinoma, 23:35899
effects on lymphocyte count following intralymphatic injection, 23:9889
effects on man following combined myleran and phosphorus-32 therapy of polycythemia, pathological β, 23:38870
effects on man following therapy of polycythemia, β, 23:29825 (UCRL-18347, pp 1-9)
effects on man following use in therapy of polycythemia vera, leukemogenic β, 24:51078 (CONF-691212-, pp 441-52)
effects on mandible and tibia of rats following intraperitoneal injection of labeled sodium phosphate, tetracycline tracer technique for studying dynamics of bone remodeling following, β, 24:863
effects on metabolism of phosphates by tomato plants, 22:2483

effects on mice, β, 24:21294
effects on mice, effects of dose fractionation on leukemogenic, 25:27021
effects on mice, effects of sex on leukemogenic, 24:44605
effects on mitosis rate in ascites tumor cells in vitro, β, 23:50863
effects on morphology of human leukocytes, in vitro, 25:39943
effects on mouse thyroid, comparison with effects of injected radioactive rainwater, 21:1827
effects on mutants of E. coli, 22:592
effects on mutation induction in wheat, 21:20142
effects on nervous system of man, mechanisms of β, 24:4693
effects on neural transmission in isolated cervical sympathetic ganglin of rats, 23:33812
effects on neuro-humoral regulation following incorporation in animals, effects of dose on, 24:44596
effects on Neurospora, effects of space flight on mutagenic, 23:41294
effects on ovaries and testes of mice following intramuscular injection, effects of estradiol and FSH on, 25:13569
effects on panicles of corn, effects of combined exposure to γ rays and sulfur-35 on mutagenic β, 23:50424
effects on personnel during application of labeled fertilizer to potatoes, protection against, 23:38600
effects on poliovirus-infected Hela cells, radioresistance studies on, 25:42741
effects on polycythemia patients, therapeutic, 22:51830
effects on polycythemia vera in man, effects on survival and leukemia incidence of therapeutic, 25:11303
effects on potatoes following implantation in tubers, mutagenic, 21:34643
effects on production of single-chain interruptions in DNA of bacteriophage, 21:22379
effects on radiation energy sorption in pharmaceuticals, 22:37819
effects on rat spleen, effects of, on immune reactions to 2,4-dinitrophenyl-bovine γ globulin and on blood level of lymphocytes, 24:34175
effects on rats, neoplastic, 23:43862
effects on rats, protective effects of drugs against, 21:45643
effects on respiratory capacity of leukocytes in rats at rest and during phagocytosis, β, 23:29789
effects on response of mosquito larvae to light, beta, 22:6916
effects on rice seed, effects of dose on mutagenic, 25:24096
effects on rice, mutagenic and physiological, 21:28682
effects on seed color of Brassica juncea, mutagenic β, 23:26744
effects on survival of Escherichia coli, effects of dose on synergistic effects of uv and x on, 24:34776
effects on survival of oocytes and spermatogonia in mice, 23:8062
effects on T5 bacteriophage DNA, enzymic repair of β, 23:2790
effects on thymineless death and liquid holding recovery in Escherichia coli, synergistic effects of uv radiation on, 25:55359
effects on thyroid gland of mice following injection in comparison to effects of injection of radioactive rainwater, 24:21292
effects on transfer of genetic determinants in Hfr strains of Escherichia coli, 21:20440(R) (TID-23502)
effects on uv- and x-radiosensitive diploid and haploid cells of Saccharomyces cerevisiae, lethal coefficients for, 25:24453
effects on uv-radioinduced mutants of yeast, comparison of effects of γ and uv on lethal, 24:673
effects on yeasts, role of transmutation in lethal, mutagenic, and recombination-inducing, 24:31922
energy level at 77 keV from phosphorus-31 (d,p) reactions, lifetime measurement using delayed coincidence method, (E), 22:29976
energy level at 77 keV, lifetime of, 24:26603
energy level at 77 keV, lifetime of, (E), 22:13977
energy level at 78 keV from silicon-29 (He-4,p) reactions, lifetime of first excited, (E), 25:50673
energy levels from μ-meson capture by sulfur-32, spin—parity assignments for, (E), 23:32920
energy levels from neutron resonances in phosphorus-31, radiative widths for, (E), 25:5603 (FOA-4-4440)
energy levels from phosphorus-31 thermal neutron capture, spin-parity assignments and multipole mixing ratios for, (E), 22:39613
energy levels from phosphorus-31 thermal-neutron capture, (E), 21:25482
energy levels from silicon-29 (α,p) reactions, (E), 23:19254(R) (ORO-3624-7)
energy levels from silicon-29 (α,p) reactions, lifetimes of, (E), 24:38195
energy levels from silicon-29 (α,pγ) reactions, spin assignments for, (E), 24:38151
energy levels from sulfur-32 (p,$\alpha\gamma$) reactions at 14 MeV, angular correlation measurements of, (E), 25:20323
energy levels from sulfur-34 (p,He-3) reactions, spin—parity assignments for, (E), 23:25853 (UCRL-18716)
energy levels from sulfur-34 (p,He-3) reactions, T = 2, (E), 24:24542
energy levels of, calculations using shell model with jj-coupling approximation, (T), 22:27241
energy levels of, calculations using SU(3) representation with exchange forces, 21:31865
energy levels of, isobaric analog, (E), 23:3985
energy levels of, shell-model calculations of spectroscopic factors for, (T), 23:1831
energy-level densities in, calculation of, (T), 23:47052
energy-level transitions from phosphorus-31 neutron capture, (E), 21:44655
evaluation for scanning human mammary glands for localization of neoplasms, 25:58051
evaluation of phosphate-incorporated, for scanning brain tumors, 22:38361
exchange between iron phosphate and trialkyl phosphates, kinetics of, 23:198
exchange reactions as test for homotropic cooperativty of allosteric enzymes, 24:41295
exchange reactions of carrier-free, with phosphorus chloride, phosphoryl chloride, and thiophosphoryl chloride, 22:18786
exchange reactions with molybdovanadophosphoric acid, rate of, 23:158
excretion by man in relation to whole-body content, 23:29328
excretion by Mytilus edulis, 25:4448
excretion in urine by man, methods for calculation of safe limits of, 22:6811
excretion of, by rats, 21:10728 (TID-23458)
excretion of, by rats, effects of pituitary hormones and synthetic lysine-vasopressin on, 21:12777
fallout from troposphere, (E), 24:37364
half life in sandflies, determination of effective, 22:4584
half-life, 21:12365
half-life in four species of Heteroptera, 23:2784
half-life in mosquitoes, effects of diet on, 24:44408
half-life, (E), 23:39989
implantation in silicon crystals, (E), 22:35285(R) (AERE-PR/NP-13)
incorporation by bones of mice, strontium-90 effects on, 21:13020
incorporation by organs of mice, strontium-90 effects on, 21:13020
incorporation in adenine, orotic acid, and uracil for preparation of labeled RNA, 22:12746 (EUR-3669)
incorporation in adult sandflies, method for, 22:4582
incorporation in ATP for determination of RNA synthesis, 23:778
incorporation in bacteria for determining filter feeding of crustaceans and molluscs, 24:34211
incorporation in bacteriophage DNA, 22:30414 (ORNL-4100, pp 148-51)
incorporation in bacteriophage parental DNA for detection of transfer of DNA to progeny, 21:22253
incorporation in beetles, evaluation of methods for, 22:8467
incorporation in blood platelets of dogs and swine, 21:41319
incorporation in brain phospholipids in vitro, effects of 2-aminoethylphosphonic acid on, 24:588
incorporation in chromium phosphate and zirconyl phosphate pharmacological properties of, 23:29295 (CONF-670649-28)
incorporation in colloidal chromic phosphate, in situ precipitation of with papain, method for, 22:51387
incorporation in colloidal solution of chromium phosphate for therapy, method for, 24:51000
incorporation in colloidal solution of zirconium phosphate, for therapy, method for, 24:51000
incorporation in colloids of zirconyl phosphate for use in therapy, 21:45723
incorporation in diphenylphosphinothioic chloride for conjugation to immunoglobulin, 24:4586
incorporation in DNA for determining genetic transformation in bacteria, 22:39951 (BNL-50101)
incorporation in DNA of T4 phage, effects of, on double-strand scissions, 24:34045
incorporation in erythrocytes, for measuring volume of whole blood in swine, 25:4411 (CEA-R-4031)
incorporation in fertilizers for determining effects on cereal crops, 25:52014 (A/CONF.49/P-192)
incorporation in honey bees, dietary method for, 22:47458
incorporation in hormones for metabolism studies in birds and mammals, 22:21404 (COO-301-150)
incorporation in insects for identifying predatory species, 24:31792
incorporation in larvae of elm sawfly following ingestion of radioactive foliage, 22:36179
incorporation in lipids, review of methods for, 22:40570
incorporation in mosquito larvae for dispersion studies, 22:17003
incorporation in organic phosphorus compounds, 24:33736
incorporation in phosphodiester bonds of DNA, 21:16297
incorporation in phytin for labeling, 24:5976
incorporation in RNA for labeling of poliovirus, 21:45848
incorporation into chromium phosphate use of, for intracavitary treatment of malignant effusions in man, β, 23:4993
incorporation into colloidal chromic phosphate, 23:38725
incorporation into diisopropylfluorophosphate for study of radiation effects on hematopoiesis, 24:32188
incorporation into nucleotides of pea leaves, effects of temperature on, 22:43258
incorporation into precursors during synthesis of RNA in higher plants, 23:35581(R) (COO-1377-10)
incorporation into rat pituitary, effects of ovariectomy on, 23:41206
incorporation of, in bones of rachitic rats, effects of uv-irradiated milk and vitamin D3, 21:6466
incorporation of, in phosphates, phosphites, and trichloromethylchlorophosphinic acid yields in neutron radiolysis of carbon tetrachloride, 21:8334
incorporation of, into tissues of mice, effects of strontium-90 on, 21:14602
ingestion of CrPO$_4$-incorporated, effects of, on gastrointestinal tract of rats, 22:49537
labeling of human leukocytes compared with chromium-51, method for, 23:6380
labeling of voles, optimal dose for, 23:16230
leaching from foliage of plants, reaction mechanisms for, 21:28357
leaching from soils by rye grass, effects of, on phytin uptake by soils, 24:5976
metabolism and tissue distribution following intake by man, 25:42467
metabolism by cancer tissues in man, effects of drugs and hormones on, in relation to optimal therapy, 24:14410
metabolism during metamorphosis and reproduction of Aedes vexans, 21:26363
metabolism in animals, determination of dietary phosphorus availability by, 23:45209
metabolism in brain of polycythemia patients, kinetics of, 21:3386
metabolism in buffalo and cattle in Egypt, effects of temperature on, 25:51986
metabolism in buffalo, cattle, and goats in relation to heat stress, 25:52278 (A/CONF.49/P-136)
metabolism in cane plant tissues, following sorption from water, 23:12026
metabolism in central nervous system, effects of vibrations on, 21:17980
metabolism in corn, effects of inbreeding on, 22:45453
metabolism in eyes and skin of man, use of solid-state detector for determining, 21:41444
metabolism in goats, effects of dietary calcium and phosphorus on, 23:50270(R) (COO-1339-23)
metabolism in juvenile starry flounder in Columbia River Estuary, seasonal variations in, 24:14392 (RLO-1750-54, pp 149)
metabolism in man, effects of thyrocalcitonin on, 24:34038
metabolism in mosquitoes, effects of developmental stage on, 24:44408
metabolism in plant roots, method for radiochromatogram scanning in study of, 23:22221
metabolism in rabbits, effects of irradiation of tibial bone on, 22:43441
metabolism in starry flounder in Columbia River, effects of age on, 24:14391 (RLO-1750-54, pp 148)
metabolism in tissues of mice following inhalation, 22:28328
metabolism in tumor tissues in rats in relation to growth and therapy problems, 24:14409
metabolism in young chinook salmon in Columbia River in comparison to zinc-65, 24:14393 (RLO-1750-54, pp 150-3)
metabolism of zirconyl phosphate-incorporated colloids of, in tissues of mice, 22:6755
metabolism of, by animal tissues, effects of activated charcoal in gum tragacanth on, 21:4803
metabolism of, by maize roots, autoradiographic study for determining, 21:12800
metabolism of, in rats, effects of copper and molybdenum on, 21:12755
metabolsim in rats following single and multiple inhalations, 23:4868(T) (ORNL-tr-2016)
monitoring in blood of live small mammals, equipment and method for continuous β, 23:43553
monitoring in hair for determining neutron dose during criticality accidents, 24:2666
monitoring of cosmic-ray produced, at Bern from Jan. to Sept. 1965, 21:6069
monitoring of movement through lodgepole pine and red fir trees for measuring water transpiration, 24:29704
movement through Diamorpha community, mechanisms for, 24:23139(R) (ORO-2412-24)
nuclear electric quadrupole and magnetic dipole moments of, calculation using many-particle shell model, 25:38951
nuclear properties of, calculations using symmetric-core collective model, (T), 23:15502
oxidation states of recoil, 21:34311(R) (NYO-1396-103)
photoannealing of recoil, in neutron-irradiated alkali metal chlorides, 24:41332
preparation and use of lecithin-incorporated, in Ethiodol for therapy of lymph cell metastases in man, 24:39538(T) (NP-tr-1909)
preparation of applicators of, by sorption on Anex foil Zerolith FF, 25:57500
preparation of applicators of, by sorption on plastic anion exchange resin, 25:34671
preparation of carrier-free, method for, 21:43039
preparation of chronic phosphate-incorporated, comparison of methods of, 22:543
preparation of foil-type radiation sources of, 25:339
preparation of point sources of, for use in tissue culture irradiation, 21:4586
preparation of thin radiation sources of, method of, using surface-active compounds, 21:25932
preparation of, review of, 21:36024
production at ORNL, 1946 through 1965, 21:17794
production at sea level by cosmic muons and neutrons, (T), 23:14650 (INSJ-110)
production by cosmic neutron reactions (n,p) with sulfur-32, (E/T), 21:14930(R) (ORO-3235-12)
production by cosmic ray reactions with hydrochloric and sulfuric acids, 22:40107
production by irradiation of sulfur, 21:24103(P)
production by irradiation of sulfur and distillation as phosphorus pentafluoride, 23:38012(P)
production by irradiation of sulfur and separation, 23:38011(P)
production by neutron irradiation of potassium chloride, valence distribution of, 22:18830
production by neutron irradiation of sulfur, 21:39023(P)
production by neutron irradiation of sulfur and solvent extraction, 22:12355
production by neutron reactions (n,p) with sulfur-32, chemical states in, 21:19718
production by proton reactions with elements at 550 MeV, cross sections for, (E), 24:52510
production by silicon-30 (t,n) reactions, (E), 21:19207
production from neutron-irradiation of sulfur, state of phosphorus in, 22:16605
production in Australia, 22:42761
production in DNA and nucleotides by neutrons, 22:462
production in heavy ion-induced reactions on gold, nickel, and silver, (E), 23:23703
production in human bone by 600 MeV protons, 22:51296 (CERN/HER/AP-2-68)
production in IAN-R1 Reactor, 22:40321 (IAN-Q-6)

production in IAN-R1 research reactor, 24:38770 (PRNC-135, pp 93-7)
production in man by neutron exposure, 22:23504 (HW-76823)
production in neutron reactions (n,p) with sulfur-32 in sulfur compounds, oxidation states of, 22:111
production in potassium-39 $(n,2\alpha)$ reactions at 14 MeV, (E), 22:50579
production in sulfur targets by neutron reactions (n,p), 22:18786
production in sulfur-32 (n,p) reactions, chemical states of, (E), 21:24049
production of carrier-free, by neutron irradiation of sulfur, 24:22695
production of carrier-free, from copper cyclotron target by continuous electrophoresis, 23:17490
production of carrier-free, from manganese cyclotron targets by continuous electrophoresis, 23:17490
production of recoil, by neutron reactions (n,γ) and (n,p) in phosphorus-sulfur compounds, 25:26318
production of, design and operation of Japanese facility for, 24:31572
production of, effects of thermal annealing on valence distribution in single crystals of potassium chloride, 22:18831
production of, in neutron reactions (n,p) with sulfur, 21:1407
production of, methods for, 21:5908 (STI/DOC-10/63)
production of, treatment of waste from, 23:24287
properties in x-ray source excitation, 21:39144
properties of colloids of, effects of, on distribution in tissues, 21:43461
proton inelastic scattering at 17.5 MeV, differential cross sections and spectra for, (E), 22:3609 (PUC-937-164)
radiation dose to bone from, relation of, to carcinogenic effects, 21:26577
radiation effects on chemical states of, in potassium chloride crystals, 660-MeV proton, 21:24036
radiation effects on deposition of, in rat tissue, γ, 21:34592
radiation effects on distribution of, in blood serum proteins, brain, and liver of rats, proton, 22:52001
radiation effects on incorporation of, by DNA and RNA in spleen of rats fed differing contents of fatty acids, x, 21:26376
radiation effects on incorporation of, by RNA of cultured crown gall tumor from Datura, x, 21:24668
radiation effects on incorporation of, in RNA of yeasts, correlation of, with catalase activity, γ, 22:19252
radiation effects on incorporation of, into DNA of Euglena gracilis, uv, 23:45667
radiation effects on incorporation of, into DNA of splenic lymphocytes from hamsters, x, 22:23604
radiation effects on incorporation of, into liver RNA of adrenalectomized rats, effects of cortisone and tryptophan on, 23:43687
radiation effects on incorporation of, into photosynthetic products of Ankistrodesmus braunii, x, 21:24682
radiation effects on metabolism of, in rats, effects of dose on x, 22:51482
radiation effects on oxidation state of recoil, from neutron-irradiated tripolyphosphate hexahydrate, 25:57495
radiation effects on retention of recoil, in organophosphorus and organosulfur compounds, 23:49835
radiation effects on retention of, in DNA, effects of exposure time on fast neutron and γ, 24:2581
radiation effects on retention of, in DNA, relation of, to hyperchromicity, thermal neutron, 23:41255
radiation effects on uptake by rat kidney, liver, muscles, and spleen, effects of AET and cysteamine on γ, 25:19024
radiation effects on uptake of phosphate-incorporated by DNA of cultivated mammalian cells, x, 21:28344 (NP-16452)
radiation effects on uptake of, by DNA and RNA of ascites hepatoma cells in rats, combined effects of carcinostatics on cobalt-60 γ, 22:31025
radiation effects on uptake of, by DNA, x, 23:6383
radiation effects on uptake of, by lichens, γ, 25:16374(R) (COO-2085-1)
radiation effects on uptake of, by myocardium in rats, protective effects of cystamine against whole-body γ, 25:24219
radiation effects on uptake of, by potato plants, γ, 21:6445
radiation effects on uptake of, by proteins of calcified tissues in rats, effects of 500 R doses on, 24:27538
radiation effects on uptake of, in incisor teeth of rats, x, 21:26332(R) (ORO-3554-1)
radioinduced in organic sulfur compounds, chemical states of, 23:15905
radioinduced inhibition of, uptake by rat thymus, ionizing, 22:45447
radiotherapy of polycythemia, effects on occurrence of leukemia, 21:24297(R) (ORO-2401-9)
reactions of recoil atoms of, with chloromethanes, mechanism of formation of labeled chloromethylphosphinic acid products in, 22:30595
reactions of recoil atoms of, with phosphorus chlorides, phosphoryl chlorides, and thiophosphoryl chlorides, direct labeling by, 25:13069
reactions of recoil ions of, with neutron-irradiated inorganic and organic phosphorus compounds, 23:328
reactions of recoil, effects of water on, 23:19797
reactions of recoil, from silicon-32 decay in sodium silicates, 24:41332
reactions of recoil, in irradiated phosphates, anion-exchange and gel-chromatographic studies on, 25:2298
reactions of recoil, in irradiated pure and oxygen-doped potassium chloride monocrystals, effects of photo and thermal annealing on, 25:39558
reactions of recoil, in neutron-irradiated alkali metal orthophosphates, 22:42724 (COO-1618-8)
reactions of recoil, in neutron-irradiated ammonium hypophosphite, computer simulation of, 23:43337 (COO-1618-12)
reactions of recoil, in neutron-irradiated phosphorus compounds, 23:37991
reactions of recoil, in neutron-irradiated polyphosphates, 24:18998
reactions of recoil, in neutron-irradiated sodium tetrametaphosphate, 24:25089
reactions of recoil, in organic compounds, 21:32214(R) (PRNC-101)
reactions of recoil, in proton-irradiated potassium chloride monocrystals, 24:13900
reactions of recoil, in thermal-neutron-irradiated solid inorganic phosphates, 25:2302
reactions of recoil, produced by different nuclear transformations in some phosphine oxides, phosphine sulfides, or sulfoxides, 23:49835
reactions of recoil, with phosphorus pentachloride, 21:19718
reactions of recoil, with products of neutron-irradiated phenylsulfur compounds, effects of benzene on, 23:43375
reactions of recoils of, with benzene, effects of organic diluent on yields from, 23:13770
reactions with phosphorus pentachloride, effects of oxygen in lattice on, 21:24049
removal from aluminum, chemical and electrolytic methods for, 22:12422
removal from cotton textiles, use of complexing agents with Rumanian detergents for, 21:22424
removal from medical equipment, effectiveness of detergent solution combined with sound frequency vibrator for, 25:29510
removal from medical instruments and surfaces using detergent solutions and sonic precipitators, 23:35716
removal from painted surfaces, performance of detergents for, 23:40958
removal from polyvinylchloride foil, glass, and steel using detergents, 22:4626
removal from raw sewage, effect of Vorticellid protozoa on, 22:10534
removal from sewage, efficiency of biological filters for, 24:44468
removal from steel surfaces, effects of hydrogen index and specific activity of contaminating solution on, 23:33181
removal from surfaces, effects of surface-active agents on, 24:27322
removal of, from cattle, effects of hemolysis and parathyroid extract on, 21:4767
separation from activated biological materials in neutron activation analysis, ion exchange method for, 24:31263
separation from carbon-14 in double labeled studies of plant metabolism, use of thin-layer chromatography for, 23:26647
separation from cerium-144, cesium-137, ruthenium-106, and strontium-90, precipitation method for, 24:11669
separation of carrier-free, from elementary sulfur by sorption on active carbon, 21:43039
separation of carrier-free, from irradiated sulfur by thermic oxidation, 25:41833(R) (IA-1218)
separation of cosmic-ray-produced, from hydrochloric and sulfuric acids, 22:40107
sorption and distribution of, in tobacco plants, effects of tobacco mosaic virus on, 21:8737
sorption by human circulatory system following introduction into bladder, effects of age on, 24:2549
sorption by human teeth, measurement of, 23:22243
sorption by leaves of bean plants, effects of phosphorus content of soil on, 22:6766
sorption by plankton and sediments of Rhine River, 24:14481
sorption by Rhine River monomineralic fine sands, (E), 25:2350
sorption by roots of rice plants, effects of low temperature on, 22:40551
sorption from aqueous solutions by glass walls in packing vials, 23:336
sorption from intestines and urinary bladder of dogs, measurement of, 22:36222
sorption from synovial cavity of cats and rabbits, effects of drugs and temperature on, 23:9873
sorption of ionic, by metal surfaces, 22:35767(T) (AEC-tr-6776)
sorption of, by epoxide paints and lacquers, 21:3405
sorption of, by teeth of x-irradiated rats, 21:6569
sorption on cationic resin microspheres, 22:28609
sorption on metal and oxide surfaces, 22:4129
sorption through burns, intact skin, and muscle wounds in rats, 23:16247
sorption through skin of rats, protective effects of angiotonics against, 23:9964
testing of, produced in Japan, application, 25:41990 (JAERI-13617)
toxicity in guinea pig wounds, 21:18096
toxicity of malathion labeled with, to man following ingestion of contaminated flour, calculations for, 25:8600
trajectories of recoil, in neutron-irradiated sodium phosphates, 24:27168
transfer from Erysiphae graminis to wheat, 23:952
transfer from male to female during copulation of Aedes vexans, determination of smallest detectable amount, 21:26363
transfer in aquatic ecosystems, 23:17974 (CONF-670503-, pp 270-7)
transfer into fetus through placenta from maternal blood, 25:32338
transport across placenta in gravid cattle, sheep, and swine, 24:23068 (CONF-690501-, pp 9-23)
transport between oats and vetch, 25:57950
transport by Columbia River plankton, 21:41426
transport in Columbia River water during 1967, estimated rate of, 23:33702 (BNWL-983(App.))
transport in food chain of simple ecosystem, 23:17984 (CONF-670503-, pp 709-10)
transport in food chains of nuclear-explosion-contaminated estuarine and marine ecosystems in relation to daily ingestion by man, use of stable element content of fish and invertebrates for predicting, 25:8627
transport in roots of plants, autohistoradiographic analysis of, 21:41345
transport in terrestrial microcosmic ecosystems, 23:9904 (ORNL-4316, pp 71-160)
transport through salt marsh ecosystem, mathematical model for, 23:48005(R) (ORO-3238-7)
transport through salt-marsh ecosystem, 22:6773(R) (ORO-3238-3)
uptake by 5'-nucleotides in RNA of mammalian tissues, 24:29625
uptake by A. falcatus, 22:23138
uptake by acid-soluble nucleotides in small intestine of rats following intraperitoneal administration, 23:33616
uptake by algae, 24:39465 (ORNL-4446, pp 137-52)
uptake by algae in seawater, (E), 22:12455(R) (EUR-3635)
uptake by aquatic insects, method for controlled, 23:16235
uptake by bacterial cultures, effects of growth on, 21:39338
uptake by bean leaves, effects of root temperature on, 23:38441
uptake by benign and malignant melanomas, diagnostic use of, 21:26495
uptake by blood, liver, ovary, and uterus of rats, effects of gonadotropin administration on, 24:41737
uptake by bone marrow, liver, and spleen of x-irradiated rats, effects of bone marrow transplants on, 25:58123
uptake by bones in animals and man, induction of neoplasms and radiation injuries following, 25:42472
uptake by bones, use of, for testing bone viability, 23:20275
uptake by carcinoma of penis of man, use of, for diagnosis of lymphatic metastasis, 22:12874
uptake by carcinomas of human cervix as diagnostic aid, 24:6070
uptake by Chlorella, competition with tubificid worms for, 25:46759(R) (COO-1803-6)
uptake by Colletotrichum falcatum, mutagenic effects of, 21:34829
uptake by DNA and RNA in roots, effects of 8-ethoxycaffeine on, 23:35610
uptake by DNA in mitochondria and nuclei of regenerating liver in rats, 21:41364
uptake by DNA in mitochondria and nuclei of Tetrahymena, 22:12744 (BL-207)
uptake by DNA of leukocytes of man with tropical eosinophilia, 22:6726
uptake by erythrocytes, measurement of, 21:45510
uptake by erythrocytes, methods for determining, 25:26589
uptake by Eucalyptus seedlings from soil and by Pinus from solution, 23:41217
uptake by groundnut plants, effects of soil treatment with sodium carbonate on, 21:17989
uptake by honey bees, method for distinguishing iodine-131 from, 22:4689
uptake by human body, from waste discharged into Columbia River, 21:16308
uptake by human eyes following ocular surgery, as test for malignancy, 24:41931
uptake by human lungs, use of β probes for measurements of, for differential diagnosis between benign and malignant diseases, 25:539
uptake by human vulvar skin, effects of lichen sclerosus et atrophicus on, 22:45398
uptake by larvae and pupae of yellow-fever mosquitoes, effects of age and synchrony on loss and transfer during development, mating, and oviposition, 22:36165
uptake by leaves and roots of oats and vetch, 25:57950
uptake by man from fresh fallout, calculation of radiation dose following, 24:34322 (UCRL-50790)
uptake by marine bacteria and yeasts, 24:34225
uptake by melanomas in human eyes, diagnostic test using, 25:58063
uptake by mycorrhiza on Pinus, effects of temperature on, 25:8603
uptake by Mytilus edulis, 25:4448
uptake by neoplasms in rats, detection of, 21:41439
uptake by nucleic acids in human tumors, effects of cytotoxic agents on, 25:41833(R) (IA-1218)
uptake by nucleic acids in rat lymphoid tissues, effects of β dose on tracer studies using, 23:16239
uptake by nucleotides of calf thymus nuclei, effects of glucose and inorganic phosphates on, 23:43675
uptake by nucleotides of heart muscle of rats in vitro and in vivo, effects of aldosterone on, 24:48386
uptake by nucleotides of thymus nuclei, effects of bases and nucleosides on, 24:46562
uptake by oats, effects of indoleacetic acid on, 22:19263
uptake by oligonucleotides of nuclear and nucleolar RNA of rat liver, 24:34055
uptake by organic phosphates, phosphoprotein, and RNA in liver and mammary glands of rats, synergistic effects of progesterone and stilbestrol on, 24:21067
uptake by periphyton in Columbia River, effects of activity of river on, 22:21591
uptake by periphyton in streams, tracer use of, 24:545
uptake by phosphatides in slices of guinea pig brains, effects of dopamine, gamma-aminobutyric acid, or 5-hydroxytryptamine on, 24:29702
uptake by pine pollen, during germination, effects of boric acid, calcium ions, and magnesium ions on, 25:489
uptake by placenta and uterus in microwave-irradiated rats for determining blood circulation, 24:41965
uptake by plankton, 22:51488
uptake by pure and mixed stands of buckwheat and lupine, comparison of, 25:57949
uptake by purine nucleotides in rabbit brain, effects of serotonin on, 23:35779

uptake by rats, protective effects of AET against, 22:21551
uptake by rice plants, effects of distribution in soil on, 21:41356
uptake by rice seed, effects of initial phosphorus content in seed on, 21:28682
uptake by rice, effects of iron-59 on, 21:26368
uptake by rice, effects of manganese-54 on, 21:26368
uptake by RNA in liver of chick embryo, effects of albumin on, 23:16229
uptake by roots of aquatic plant, Myriophyllum exalbescens, tracer study, 25:39398 (TID-25702)
uptake by roots of barley and wheat, effects of decenylsuccinic acid on, 24:23099
uptake by roots of Coleus and Tradescantia, 22:40952 (ORO-657, pp 93-120)
uptake by roots of Paspalum commersonii, 23:6391
uptake by roots of rice, effects of metabolism and zone of root on, 23:47923(T) (NSJ-tr-153)
uptake by sandflies, effects of age on, 22:4582
uptake by sarcoma tissue, effects of blood serum from x-irradiated rats on, 21:45785
uptake by sarcoma tissue, effects of blood serum from whole-body x-irradiated rats on, 21:45675
uptake by testes of rats, 24:34691
uptake by thymus in rats, effects of adrenal hormone and strychnine on, 21:39356
uptake by tissues in Indian catfish, effects of ACTH on, 24:34057
uptake by tissues of animals in relation to physical stress, effects of thyroid function on, 23:47930
uptake by Tradescantia, mutagenic effects of, 22:6772 (ORNL-4168, pp 61-118)
uptake by tubificid worms, effects of chloramphenicol and uptake by Chlorella on, 25:46759(R) (COO-1803-6)
uptake by tumor tissues in relation to radiosensitivity of implanted ascites hepatomas in mice and uterine cervical carcinomas in man, 23:41389
uptake by tumor transplants in rats, development of instruments for measurement of, 22:12851
uptake by tumors in man, 25:575
uptake by tumors in man, microminiaturized ionization detector for study of hormone dependence of, 23:29183
uptake by wheat seedlings, effects of rust infection on, 21:45546
uptake from sea water by fish, 21:39357
uptake from soil by grass, vegetables, and pine trees, 21:22369
uptake in bones of rabbits, effects of administration of plutonium-239 on, 21:34593
uptake in malignant tumors, external detection of, 21:39449
uptake in ultrastructure of, of isolated frog brain, effects of sodium—potassium ratio on, 21:32587
uptake of chromic phosphate-incorporated, by bones, bone marrow, liver, lungs, and spleen of rats, effects of blocking agents on, 22:21418
uptake of chromium alloxantin-incorporated, by tissues of normal or tumor-bearing mice in comparison with phosphorus-32-labeled orthophosphate, 25:29453
uptake of phosphate ion-incorporated, by erythrocytes of rats for determining correlation of phosphorated erythrocytic metabolism with second and third phase of general adaptation syndrome, 25:13335
uptake of sodium phosphate-incorporated, by lodgepole pine and red fir, 23:47918 (TID-25136)
uptake of, across roots of Phaseolus vulgaris, improved technique for estimating, 21:9009
uptake of, by clover and bean plants, 21:9006(R) (EUR-3163.e)
uptake of, by Liquidambar styraciflua and Liriodendron tulipifera, effects of vesicular-arbuscular mycorrhizas on, 21:8720
uptake of, by nodular goiter and thyroid carcinomas, effects of TSH on, 21:8698
uptake of, by nodular goiter and thyroid neoplasms, 21:8697
uptake of, by phospholipid fractions of rat brain, 21:10774
uptake of, by ram sperm, relation to content of DNA-P, 21:14570
uptake of, by rectal neoplasms, use of miniature Geiger counter for detecting, 21:18100
uptake of, by ribonucleotides in x-irradiated guinea pigs, 21:6447
uptake of, from gastrointestinal tract, effects of age on, 21:8695
uptake of, from gastrointestinal tract, effects of diseases on, 21:8695
uptake of, in root in plants cultivated in light sandy soil, 21:11126
use as beta source for interstitial radiotherapy of, incorporated into microspheres, 21:18074(R) (TID-23518)
use as β source for interstitial therapy of bone metastases of prostate carcinomas, 24:51010
use as chromic phosphate for lymph node destruct studies in dogs, 21:22727
use as tracer for determining distribution of onion flies, 25:29748
use as tracer for determining grassland arthropod food chains in Colorado, 25:21618 (COO-1156-40, pp 37-41)
use as tracer for determining phosphorus metabolism in foraminiferans and nematodes, 25:37754(R) (NYO-3995-20)
use as tracer for determining rate of dispersal of cherry fruit flies in Poland, 25:27150
use as tracer for determining relation of aphids to host plant, 24:31827
use as tracer for determining role of aphids as vectors of sugar beet virus, 24:31898
use as tracer for determining root distribution pattern of rice, 25:32314
use as tracer for ecological studies on ticks, 25:18934(R) (ORO-3514-10)
use as tracer for estimating population size of Mediterranean fruit fly in Tunisia, 25:26573
use as tracer for material flow measurements in chemical processes, 22:14706
use as tracer for measurement of coolant mixing in reactor fuel sub-assemblies, 24:19158
use as tracer for measurement of energy flow in natural animal populations, 24:34230
use as tracer for measuring velocity of moving thread, 25:54900
use as tracer for measuring water translocation in lodgepole pines, 24:41722 (TID-25463)
use as tracer for RNA counting using Cherenkov detector, 23:11800
use as tracer for studies of inorganic phosphate esterification into ATP, 24:36694
use as tracer for studies of nucleoside and nucleotide incorporation into nucleic acids, 24:36694
use as tracer for studies on phosphate fertilization of rice, 24:41721 (STI/DOC-10/108)
use as tracer for study of cerebrospinal fluid synthesis, absorption, and circulation in animals and man, 25:555
use as tracer in autoradiographic studies of phosphorus distribution in steels, 22:8324
use as tracer in biological materials, preparation and stability of labeled organic compounds for, 24:50670
use as tracer in detection of oil leaks in mechanical seals, 22:16781
use as tracer in studies on RNA metabolism in fetal rat liver, 21:22245
use as tracer to determine bacteria content of drinking water, 23:50048
use as tracer to determine phosphorus sorption from soils by coconut trees, 25:52019 (A/CONF.49/P-748)
use as tracer to determine radioisotope content of river silts, 23:13859
use as tracer to determine rates of foliage consumption by Chrysochus auratus in natural environment, 23:7974
use as tracer to measure movement of sand and sediment in rivers, 21:24177
use as tracer to study propagation of ice crystals in clouds, 22:51188
use as tracer to study solidification of cast steel, 25:34820
use as tracer with chromium-51 to determine equilibration of circulating and tissue erythrocytes in liver of dogs following hemorrhagic shock, 25:485
use for analysis of adenyl cyclase activation by sympathomimetic amines, 23:26651
use for bone scanning, 23:33773
use for bone scanning in man, review of, 23:31853
use for brain scanning, 23:50723
use for control of pain in prostatic carcinoma metastases, 21:34718
use for detecting lipoic acid-activating enzyme in mammals, 21:24327
use for detection of cervical lesions in humans, 21:22620
use for determining inorganic fertilization of ponds in Soviet Union, 24:2593(T) (AEC-tr-6880)
use for determining nucleic acid content of activated protozoan extracts, 21:32579
use for determining periphyton production in aquatic ecosystem, 25:21623 (ORNL-4634, pp 82-102)
use for determining sorption of nutrients by epiphytes, 23:24505(R) (NYO-2598-45)
use for diagnosis of brain tumors, review of, 22:21546
use for diagnosis of tumors in mice, methods for, 25:543
use for differentiation of benign and malignant intraocular lesions, 22:28582
use for endolymphatic therapy of Hodgkin's disease, 25:4512
use for heart scanning, review on international methods for, 25:26855
use for internal therapy of polycythemia in man, effects of body weight and dose on development of bone tumors following β, 23:38852
use for interstitial therapy of brain neoplasms, 25:569
use for interstitial therapy of ovarian neoplasms, empirical study of, 23:31870
use for interstitial therapy of polycythemia vera in man, β, 23:50905
use for labeling fertilizers for uptake studies on maize, 25:15986 (STI/DOC-10/121)
use for labeling fish in comparison to calcium-45 and strontium-89, 25:21565
use for labeling insecticides, 25:52278 (A/CONF.49/P-136)
use for labeling of a chromic hydroxide, gelatin, and potassium phosphate colloid preparation, 21:24345
use for labeling of nucleic acid end-groups by enzymatic phosphorylation, 21:32602
use for labeling of nucleic acids in biological systems, 21:16261(R) (EUR-3059.f)
use for labeling RNA for protein synthesis studies, 21:16262 (USNRDL-TR-1080)
use for localization of carcinomas of vulva, 22:28582
use for localization of neoplasms of vulval tissues, 21:26514
use for mutation induction in Colletotrichum falcatum, methods for, 21:34639
use for pulse labeling of RNA of heart muscle, 24:34015 (ACRH-1000-173)
use for radiodiagnosis of testicular tumors, 22:28546
use for radioisotope scanning in man, Bremsstrahlung, 24:48617
use for radiotherapy of lymph node tumor cells in rabbits, 21:24467
use for scanning, 23:50739
use for scanning human stomach for differential diagnosis of benign and malignant neoplasms, 25:13495
use for scanning in Russia, 22:8568
use for scanning of gastrointestinal tract in dogs and man, 23:29633
use for scanning of thyroid gland and therapy of thyroiditis, 25:24240
use for studies on leaching and nutrition of cuttings propagated under mist, 23:24505(R) (NYO-2598-45)
use for study of granulocyte disappearance in man afflicted with chronic granulocytic leukemia, 23:35787 (ORAU-107, pp 21-3)
use for studying radiation effects on cells, 22:30966
use for therapy following intra-arterial administration of labeled microspheres, 23:38732
use for therapy of adenomas, 24:32119
use for therapy of carcinoma of the breast in man, 21:36659
use for therapy of cervical cancer in man in comparison to lymphadenectomy, β, 23:33786(T) (NP-tr-1743)
use for therapy of chronic lymphoid and myeloid leukemia, 22:10805
use for therapy of chronic lymphoid and myeloid leukemia, colloidal, 22:10805
use for therapy of conjunctival neoplasms, design and use of reactor-activated applicators for, 23:41396
use for therapy of human bladder tumors, combined effects of mitomycin on, 24:4667
use for therapy of human brain tumors, 22:38391
use for therapy of human skin neoplasms, evaluation of, 23:29659
use for therapy of idiopathic thrombocytopenic purpura, 22:47622
use for therapy of leukemia in man, 22:33866
use for therapy of lymphatic metastases in man, lymphography method for β, 23:16342
use for therapy of neoplasms in lymph system of man, 22:23563
use for therapy of neoplasms in man before or following surgery, 22:25926
use for therapy of pleural and peritoneal malignant effusions, protection against hazards of, 22:51644
use for therapy of polycythemia, 21:34693
use for therapy of polycythemia in human patients, 23:29682
use for therapy of polycythemia in man, 22:33866
use for therapy of polycythemia in man, complications following, 22:51846
use for therapy of polycythemia in man, incidence of leukemia and myelosclerosis following β, 23:50771
use for therapy of polycythemia vera, 25:44900
use for therapy of polycythemia vera in man, 22:23563
use for therapy of polycythemia vera in man, combined effects of myleran on, 23:38870
use for therapy of polycythemia vera in man, development of chromosome aberrations following, 23:31986
use for therapy of polycythemia vera in man, review of complications following β, 23:50899
use for therapy of polycythemia vera, effects of, on bone marrow, 23:50775
use for therapy of polycythemia vera, incidence of anemia and leukemia following, 22:6886
use for therapy of polycythemia vera, occurrence of leukemia development following, 22:4682
use for therapy of polycythemia, development of leukemia following, 22:6912
use for therapy of polycythemia, occurrence of chromosome aberrations in cultured hematopoietic cells following, 25:42713
use for therapy of prostatic carcinomas with bone metastases in man, combined parathormone and, 25:24297
use for therapy, late pathological effects of, 21:22565
use for treatment of epilepsy, 21:45673
use for treatment of leukemia, lymphomas, and polycythemia, 25:52008(R) (RLO-2226-T-1-7)
use for treatment of neurodermatitis in man, 23:889
use for treatment of polycythemia in man, effects of, on incidence of leukemia, 21:41479
use for treatment of polycythemia vera, 21:41467
use for treatment of polycythemia vera in man, evaluation of, 21:39450
use for treatment of polycythemia vera, comparison of, with busulfan, 22:49432
use in analysis of mating behavior of γ-radiosterilized mosquitoes, 21:34777
use in autoradiographic determination of fissure conditions in rocks, 22:14691
use in biology and medicine, review of, 24:31798
use in diagnosis of malignant and tuberculous lymphoma, 21:36666
use in double tracer technique for process analysis in chemical plants, 22:14710
use in low-activity radiation source, 21:8553(P)
use in radioapplicators for therapy of conjunctival neoplasms, 25:8731
use in radiopharmaceuticals, determination of half-life and radiation-emission for, 22:23586
use in radiotherapy of polycythemia vera in man, development of erythroleukemia following, 21:24560
use in radiotherapy, review of new, 23:50767
use in studies on efficiency of fertilizers in rice cultivation, 21:26370
use in study of effects of chloroplast mutations on photophosphorylation in plants, 21:41342
use of chromium phosphate incorporated, for therapy of human bladder carcinomas, 22:36340
use of colloidal chromium phosphate-incorporated, for therapy, review of, 21:45770
use of cosmic ray-produced, as air mass indicator, 21:6082
use of d-isopropyl-phosphorofluoridate-incorporated, to determine survival time of erythrocytes in young horses, 22:51307 (ORAU-106, pp 105-34)
use of disodium phosphate-incorporated, for scanning of human brain for localization of intracranial neoplasms, 22:31198
use of DNA-incorporated or RNA-incorporated to study effects of endotoxin on spleen cell proliferation in mice, 23:38389

use of drug-incorporated, in medicine, standards for, 23:33736 (CONF-670649-12)
use of erythrocyte-incorporated, for scanning blood circulation in brain, 25:548
use of ethiodol-lecithin-incorporated, for therapy of lymphoma of man, 22:8564
use of implants of, for treatment of neoplasms of oral mucosa in man, histological and hematologic effects of, 21:28547
use of lipopolysaccharide-incorporated, for determining effects on agglutination of erythrocytes by anti-blood group B serum, 22:23395 (COO-1285-11)
use of pyrophosphate-incorporated, for study of phosphate uptake by ATP in Mycobacterium tuberculosis, 22:40524
use of resin-incorporated, for therapy of tumors in man, β, 24:32128
use of RNA-incorporated, for studying origin of ribosomal RNA in Amoeba proteus, 23:29302
use of sodium phosphate-incorporated, for treatment of polycythemia vera in man, development of neoplasia following, 22:49589
use of stratospheric, as tracer for stratospheric—tropospheric air mass exchange studies, 25:34745(R) (NYO-4061-2)
use of therapeutic doses of, for bremsstrahlung scanning for evaluation of neoplasms, 21:24466
use of virus-incorporated, to determine electrophoretic mobility of foot-and-mouth disease virus, 22:14932
use of, as tracer for diagnosis of diseases, 21:6605
use of, as tracer in study of kinetics of oxidative phosphorylation in mitochondria, 21:16283
use of, for interstitial radiotherapy of liver neoplasms, 21:22587
use of, for intracavitary radiotherapy of neoplasms, 21:12891 (BNL-9598)
use of, for labeling ortho- and polyphosphates, 21:10728 (TID-23458)
use of, for studying synthesis of DNA and proteins in irradiated rats, 21:3427
use of, for therapy of bone lesions developed from metastases prostate carcinomas, 21:6582
use of, for therapy of cutaneous hemangiomas, evaluation of, 21:6583
use of, for therapy of polycythemia, 21:16417
use of, for treating polycythemia, effectiveness and hazards of, 21:13024
use of, for treatment of bone metastases from prostatic carcinoma, 21:16378
use of, for treatment of polycythemia, evaluation of results of, 21:16469
use of, for treatment of polycythemia, leukemogenic effects of, 21:16468
use of, for treatment of polycythemia, leukemogenic effects of, 21:16466
use of, for treatment of polycythemia, leukemogenic effects of, 21:16467
use of, implantation for therapy of neoplasm effusions in human beings, 21:18088
use of, in diagnosis of tumors at back of eye, 21:6565
use of, in tracer study of effects of x irradiation on phosphate metabolism in green algae, 21:3388
use of, in treatment of ovarian carcinoma, 21:16399
use of, in treatment of polycythemia, effects of, on development of leukemia, 21:13025
use of, labeled resin microspheres for radiation treatment of tumors, 21:12947
use of, to study x-radiation effects on blood-brain barrier in rabbits, 21:20335
use with Si(Li) detectors for diagnosis of skin neoplasms, 25:55273
uses for dispersion studies of Anopheles sergenti, 22:51403
uses for internal radiotherapy of myeloproliferative diseases in human beings, 21:26528
uses for intratissue therapy of human brain tumors, 21:32683
uses for labeling sperm of Drosophila melanogaster, 21:20155
uses in analysis of polymers, 23:45210
uses of resin microspheres labeled with, for radiotherapy of malignant neoplasms in rabbits, 21:10960
uses of, in arthropod food chain studies, 21:8750
uses of, review of, 21:36024
washout characteristics of aerosols of, from clouds, 23:17618
washout from clouds, effects of precipitation on rate of, 23:17617
washout of aerosols of, from clouds, 24:7525(T) (UCRL-Trans-10404)
yields from neutron irradiation of aromatic sulfur compounds, 23:47573
yields from neutron reactions (n,p) with sulfur-32, effects of oxygen on, 21:30488
yields in red phosphorus from neutron reactions (n,p) with sulfur-32 in various solvents, 21:30489

PHOSPHORUS ISOTOPES P-33
abundance in Saint-Severin meteorite, 22:43753
beta emission by metabolite-incorporated, review of lethal and mutagenic effects of, 21:45832
content in ground-level atmosphere, measurement of air mass exchange from, 23:49953
content of cosmogenic, in ground-level atmosphere in USSR during 1965 to 1969, 24:41447
determination in neutron-irradiation sulfate solutions, using beta absorption, (E), 22:5790(T) (CEA-tr-A-1898)
determination in phosphorus-32, methods for, 22:35280
determination of, in atmospheric aerosol samples, use of isotope dilution in, 21:12365
determination simultaneously with phosphorus-32 in aqueous solutions by combined Cherenkov and scintillation counting, 25:44365
effects on bacteriophages and Escherichia coli, 25:13612
effects on erosion, redeposition of sedimentary materials, and weathering, geochemical, 22:35936
effects on Escherichia coli and phage T4 in comparison to effects of phosphorus-32, 24:41796 (ANL-7635, pp 162-85)
energy levels from phosphorus-31 (t,p) reactions, spin—parity assignments for, (E), 23:25886
energy levels from phosphorus-31 (t,pγ) reactions at 2.45 and 3.10 MeV, (E), 24:52523
energy levels from silicon-30 (α,p) and sulfur-34 (d,He-3) reactions, (E), 22:18174
energy levels from silicon-30 (α,p) and sulfur-34 (d,He-3) reactions, spectroscopic factors for low-lying, (E), 23:1882 (WASH-1093)
energy levels from silicon-30 (α,p) and sulfur-34 (d,He-3) reactions, spectroscopic factors for, (E), 23:17103(R) (ANL-7481)
energy levels from silicon-30 (α,p) reactions, (E), 21:21489
energy levels from silicon-30 (α,p) reactions, (E), 24:13326
energy levels from silicon-30 (α,p) reactions, lifetime measurements using Doppler shift attenuation, (E), 22:35285(R) (AERE-PR/NP-13)
energy levels from silicon-30 (α,p) reactions, spin-parity assignments and branching ratios for, (E), 22:53144
energy levels from silicon-30 (α,pγ) reactions, spin—parity assignments for, (E), 23:49358
energy levels from sulfur-34 (d,He-3) reactions, (E), 22:5809(R) (ANL-7354)
energy levels from sulfur-34 (n,d) reactions at 14 MeV, (E), 22:20528
energy levels of, lifetime measurements using Doppler shift attenuation method, (E), 23:17090
energy levels of, shell-model calculations of spectroscopic factors for, (T), 23:1831
energy-level transitions from sulfur-34 (n,d) reactions, (E), 22:29978
energy-level transitions in, many-particle shell model calculation of strengths and multipole mixing ratios for, (T), 25:38951
half-life, 21:12365
half-life of, (E), 22:24845
incorporation in diatom cultures for use in measuring phosphate uptake, 25:26596
nuclear electric quadrupole and magnetic dipole moments of, calculation using many-particle shell model, 25:38951
preparation of, methods for, 24:20950(R) (ORNL-TM-2910)
production and properties of, 25:46530 (CONF-700646-, pp 12-24)
production by neutron reactions with sulfur, 21:19714(P)
production by proton reactions with elements at 550 MeV, cross sections for, (E), 24:52510
production in atmosphere, effects on measurement of air mass exchange, 23:49953
production in human bone by 600 MeV protons, 22:51296 (CERN/HER/AP-2-68)
production of, 23:2519 (ORNL-4329)
production of carrier-free, by gamma reactions with chlorine-37, 25:185
production of carrier-free, by neutron irradiation of sulfur in thermalized flux, 21:8329 (ORNL-4051)
production of, by neutron reactions (n,p) with sulfur-33, (T), 21:1382(T) (ORNL-tr-1246)
separation from cerium-144, cesium-137, ruthenium-106, and strontium-90, precipitation method for, 24:11669
uptake in tissue following injection for autoradiography studies, 25:2521
use as tracer, comparison with phosphorus-32, 23:33599
use of cosmic ray-produced, as air mass indicator, 21:6082

PHOSPHORUS ISOTOPES P-34
beta decay of, beta and gamma spectra, branching ratios, and log-ft values for, (E), 25:36700
energy levels of, calculations using SU(3) representation with exchange forces, 21:31865

PHOSPHORUS ISOTOPES P-35
production by chlorine-37 (n,He-3) and sulfur-36 (n,np) reactions, (E), 21:14930(R) (ORO-3235-12)
use of thymidine-incorporated, for determining regeneration of x-irradiated amphibian limbs, 23:14270

PHOSPHORUS ISOTOPES P-36
energy levels from silicon-28 (d,n) reactions, spin assignments for, (E), 23:1829

PHOSPHORUS OXIDES
abundance in average carbonatites, 23:13885
content in rocks of shields and sediment cover of Brazil, Canada, and USSR, relations with geological time, 25:13114
determination in tantaloniobates, methods for, 23:26154
diffusion in silicon oxides, radiochemical studies of, 21:35902
effects on radiosensitivity of Micrococcus radiodurans, combined effects of time and temperature on, 25:16385
electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
radiation effects on ESR spectra of crystalline, relation of oxygen vacancies to gamma, (E), 22:20046
reactions of, with uranium oxides to prepare uranium metaphosphate, 21:14195
reactions with americium oxides, solid-state, 22:30548
reactions with dichlorodifluoromethane at 450 to 800°C, production of corresponding chloride and/or fluoride compounds by, 24:41296
sorption rate of phosphorus-32-labeled, in phosphors of flow-through scintillation detectors, 23:624
spectra of, oxygen-18 effects on uv and visible, 23:111
thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
use for drying seeds, effects of, on x-radiosensitivity, 22:21627
Al_2O_3—B_2O_3—CaO—P_2O_5, composition of glasses of, at 1000°C, 22:25456 (CEA-N-616, pp 369-434)
Al_2O_3—B_2O_3—Fe_2O_3—P_2O_5, composition of glasses of, at 1000°C, 22:25456 (CEA-N-616, pp 369-434)
Al_2O_3—B_2O_3—Na_2O—P_2O_5, composition and properties of, for vitrification of fission product solutions, 22:27849 (CEA-N-816, pp 415-80)
Al_2O_3—B_2O_3—Na_2O—P_2O_5, composition of glasses of, at 1000°C, 22:25456 (CEA-N-616, pp 369-434)
Al_2O_3—B_2O_3—P_2O_5, composition of glasses of, at 1000°C, 22:25456 (CEA-N-616, pp 369-434)
Al_2O_3—CeO_2—P_2O_5, scintillation efficiency for gamma detection, 23:47744
Al_2O_3—P_2O_5, corrosion of mixed, by accelerated nitrogen plasma at 4000°C, 23:39018
Al_2O_3—P_2O_5—SiO_2, radiation effects on stability of glasses of, effects of metal oxides on γ, 24:2230
CaO—P_2O_5—ZrO_2, phase studies at high temperatures, 22:11086
Nb_2O_5—P_2O_5, phase diagram of, partial, 24:48907
P_2O_5—ThO_2, phase equilibria and thermal expansion data on, 25:40127
P_2O_5—ThO_2—ZrO_2, phase studies on subsolidus equilibrium in, 25:55638
P_2O_5—UO_3—ZnO, production of stable glasses of, for fuel elements, 23:3134
P_2O_5—WO_3—ZrO_2, phase studies of, 24:19517
P_4O_{10}—V_2O_5, radiation effects on electric conductivity of semiconducting glass of, gamma, 22:15264

Phosphorus Oxychlorides
see Phosphoryl Chlorides

PHOSPHORUS SULFIDES
spectra of, Raman, 24:50439(R) (ANL-7675)

PHOSPHORUS SYSTEMS
B—P—Th, thorium nitride formation over nitrogen-containing, thermodynamics of, 22:45044
C—Fe—Mn—P, magnetization of, field and temperature dependence of, 24:31138 (CALT-822-7)
C—Fe—P, ferromagnetism of $Fe_{80}P_{12.5}C_{7.5}$, (E), 22:15553 (CALT-221-38)
C—Fe—P, magnetization at 1.8 to 300°K, (E), 22:31958
C—Fe—P, Moessbauer spectra at 4.2 to 800°K, (E), 22:31958
C—Nb—P, crystal structure of Nb_2PC, H phases in, 23:7505
C—P—U, phase studies, 23:36265
Cd—P—Sn, phase diagram of CdP_2—Sn system in, 25:35580
Cd—P—Sn, properties of copper- and silver-doped crystals of, electric and optical, 25:35580
Co—Mo—P, precipitation of magnetic, studies of, 23:48399
Cr—Fe—Ni—P, corrosion by boiling aqueous magnesium chloride, effects of chloride and oxygen contents on stress, 25:6831(R) (COO-2069-5)
Cr—Ni—P, performance as brazing alloy for high temperatures, 22:12991
Cr—Ni—P, testing as brazing alloy for sodium corrosion loop, 22:12972
Cr—Ni—P—Pt, electric conductivity and magnetic susceptibilities of amorphous, 25:44237 (CALT-822-31)
Cr—Ni-base—P, brazing to Inconel 718 at 1500 to 1600°F, 21:24738
Fe—P, magnetic properties of powdered, measurement by comparison of oscillator frequencies, 23:24884
Fe—P—Pd, magnetism in amorphous, 25:51271 (CALT-822-34)
Ga—In—P, phase diagram of, calculation using quasi-chemical equilibrium model, 24:51220
Ge—P, superconductivity, structure, and synthesis of high-pressure phases in, (E), 24:21724
Ni—P, deposition on spacers for fuel assemblies, 21:10224
Ni—P, effects on low-temperature sintering of tungsten, 25:29793
Ni—P, effects on sintering of tungsten powders, 25:35354
Ni—P—Pd, electrical properties of amorphous, 25:51270 (CALT-822-33)
Ni—P—Pd—Pt, electrical properties of amorphous, 25:51272 (CALT-822-35)
Ni—P—Pt, properties of amorphous, 24:11347 (CALT-221-81)
Ni—P—Pt, radial distribution function of amorphous, x-ray diffusion measurement of, 24:8123 (CALT-221-80)
Ni-base—P, stress in coatings of, on beryllium strips, compressive and tensile, 24:44795
O—P—U, phase studies of, 24:25768 (ANL-7417, pp 25-36)
O—P—V, electric conductivity of semiconducting glasses of, 22:40993(R) (COO-1198-534)
P—Pu, phase relations in, 22:2699
P—S, spectra of, Raman, 24:43991 (ANL-7650, pp 41-66)
P—S—Th, preparation of ThSP, 24:31316(P)
P—S—U, magnetic susceptibility of solid solutions of, 24:40185
P—S—U, preparation of USP in, vapor transport method for, 24:29304(P)
P—Se—Th, preparation of ThSeP, 24:31316(P)
P—Se—U, preparation of USeP in, vapor transport method for, 24:29304(P)
P—Te—Th, preparation of ThTeP, 24:31316(P)
P—Te—U, preparation of UTeP in, vapor transport method for, 24:29304(P)
P—Th, phase diagrams, 22:36548
P—U, analysis for uranium by x-ray spectroscopy, 25:37279
P—U, crystal structure of compounds in, neutron diffraction studies on, 23:12340
P—U, phase studies of cast, 21:39696 (NLCO-1001, pp 6.1-5)

PHOSPHORUS TETRAFLUORIDE RADICAL
molecular structure of, 22:96(R) (RRL-2310-214)
molecular structure of, 21:35990(R) (RRL-2310-208)
structure of, theory of, 21:27996(R) (RRL-2310-199)

PHOSPHORYL CHLORIDES
determination of phosphorus-32-labeled, in labeled phosphorus chloride, radiometric, 21:17578

- effects on air oxidation of graphite, effects of moisture on, 22:779 (AERE-R-5552)
- effects on inhibition of graphite oxidation, 25:8906 (AERE-R-4857)
- exchange reactions of carrier-free phosphorus-32 in, 22:18786
- formation by reactions of recoil phosphorus-32 with phosphorus pentachloride, 21:19718
- radiation effects on thermoluminescence of, x, 22:30635
- radiation effects on, ESR spectral studies on yields from γ, 25:130(R) (ORO-2968-56)
- radiolysis of, ESR spectra of $POCl_3^-$ radical anion from γ, 25:54667
- radiolysis of, ESR spectra of radicals produced in γ, 25:51514
- Raman scattering by, in liquid lasing material, 25:15454 (SC-RR-70-762)
- reactions with phosphorus-32 or sulfur-35 recoil atoms, direct labeling by, 25:13069
- $AlCl_3$—$HfCl_4$—$POCl_3$, phase studies on, 22:8068
- $AlCl_3$—$POCl_3$—$SnCl_4$, phase studies on, 22:8068
- $AlCl_3$—$POCl_3$—$ZrCl_4$, phase studies on, 22:8068
- MoO_2Cl_2—$POCl_3$, phase studies on, 23:40672

PHOSPHORYL FLUORIDES
- radiolysis of crystals of, containing fluorophosphoric acid, ESR spectral studies on O_2PF_2 and O_3PF^- radical intermediates produced by γ, 24:36327
- vapor pressure—temperature data for, 25:34602 (GAT-649)

Phosphorylase a (or b)
- see α-Glucan Phosphorylase

PHOSPHORYLASE KINASE
- radiation effects on activity of, in liver of rats, x, 25:16025 (AD-713087)

PHOSPHORYLATION
- see also Cytochromes
- adenosine monophosphate role in oxidative, phosphorus-32 study of, 21:16283
- copper toxicity for, in mitochondria of liver in rats, 21:42862 (UCRL-50274)
- effects of cysteamine on oxidative, in mitochondria of rat liver, 24:7929
- enzyme reactions during oxidative, oxygen-18 tracer study of, 23:2767
- inhibition by thorium and zirconium ions, 21:20060
- inhibition of oxidative, effects of, on calcium-45 and strontium-85 sorption by rats, 21:45562
- mechanisms of photosynthetic, effects on uv and light-induced changes in chloroplast size, 21:22778
- radiation effects on enzymatic, of nucleosides, x, 21:12787
- radiation effects on mechanism of, in rat thymocyte nuclei, x, 21:28625
- radiation effects on oxidative, in animal liver mitochondria, effects of histones on, 25:29638
- radiation effects on oxidative, in biological materials, laser, 24:2569
- radiation effects on oxidative, in cotton seedlings, effects of dose on γ, 23:45649
- radiation effects on oxidative, in germinating cotton seeds, effects of altitude on, 24:16985
- radiation effects on oxidative, in isolated mitochondria from rat liver, protective effects of tris(hydroxyethyl)-rutin against x, 23:47959
- radiation effects on oxidative, in L cells, γ, 23:7985
- radiation effects on oxidative, in liver mitochondria of mice, x, 23:47966
- radiation effects on oxidative, in liver mitochondria of guinea pigs, x, 24:34126
- radiation effects on oxidative, in living tissues, 21:8744
- radiation effects on oxidative, in maize root cells, γ, 21:11116
- radiation effects on oxidative, in mitochondria of rats, γ and x, 21:34590
- radiation effects on oxidative, in mitochondria, effects of postexposure time on, 24:51035
- radiation effects on oxidative, in mouse lymphoid tumors, 21:17970
- radiation effects on oxidative, in rat liver mitochondria, γ, 21:10755
- radiation effects on oxidative, in rat liver mitochondria, effects of riboflavin on, 25:29640
- radiation effects on oxidative, in rat liver, x, 21:12763
- radiation effects on oxidative, in rats, effects of iodoacetamide on, 21:4835
- radiation effects on oxidative, in spinal cord of cats, effects of substrates on x, 23:20393
- radiation effects on oxidative, in thymus mitochondria of rabbits and rats, γ and x, 21:16300
- radiation effects on oxidative, review of, 21:30786
- radiation effects on, in cells of human skin, uv, 23:38468
- radiation effects on, of liver mitochondria in rabbits, effects of oxygen inhalation on local and whole-body, 23:6358
- radioinduced disturbances of, effects of, on sensitivity of animals to microbial toxins, 21:11032
- radioinduced uncoupling of oxidative, in bean hypocotyl, γ, 24:48412
- radiosensitivity of inhibitors of oxidative, in Paramecium caudatum, x, 21:24365
- stimulation of oxidative, by deuterated water, 22:47477
- thymidine, in spleen and thymus, effects of hypoxia, radioprotective compounds and and radiosensitizers on, 23:41202
- uncoupling of oxidative, as mechanism for growth stimulation in plants, 21:13058

PHOSPHOTUNGSTATES
- see also Ammonium Phosphotungstates
- see also Cesium Phosphotungstates
- see also Thallium Phosphotungstates
- analysis for phosphorus and tungsten by x-ray fluorescence methods, 23:1 (CEA-R-3474)
- use in separating cesium from fission products, 21:40955 (EUR-3608.f)

Phosphotungstic Acids
- see Heteropoly Acids

Phosphotungstomolybdic Acids
- see Heteropoly Acids

Photocells
- see Photoelectric Cells

Photochemical Reactions
- see Photochemistry

PHOTOCHEMISTRY
- see also Photosynthesis
- autoionization lifetimes in, statistical aspects of, 21:12470
- book: Chemistry of the Ionosphere (in Russian), 22:26318
- book: Photochemistry and Luminescence of Proteins, 24:2566(T) (AEC-tr-6717)
- book: Photochemistry of Coordination Compounds, 25:31895
- book: Photophysiology. Current Topics in Photobiology and Photochemistry, 25:21805
- book: The Chemical and Biological Actions of Radiations, 24:27136
- conference on photobiology, abstracts from 1968, 24:19297 (CONF-680843-(Absts.))
- conference on, Enschede, Netherlands, July 16 to 22, 1967, 23:33193
- conference on, Munich, September 6 to 9, 1967, parts I and II, 22:8155
- conference on, Natick, Mass., April 22 to 24, 1968, 23:47484
- conference on, of aqueous and polar systems, 25:4060
- conference on, Univ. of Newcastle upon Tyne, England, Sept. 21 to 23, 1966, 22:2148
- developments in, 24:24937(R) (COO-908-29)
- dosimetry in, method of, 23:20242
- electron transfer processes in radioinduced reactions, 22:2150
- elementary reactions at variable wavelength in, 22:48872(R) (CALT-532-37)
- energy transfer mechanisms in, 21:23946
- equipment for studying, use of flash photolysis and time-resolved mass spectrometry, 22:43159 (SC-M-68-125)
- excitation states in, analysis of, 21:22772
- hydrated electron production in, 23:35155
- instrumentation for repetitive flash photolysis, 22:37780(R) (RRL-2310-242)
- mechanistics of flash photolysis, 23:31255 (MIT-905-133, pp 37-77)
- processes for production of hot atoms, 22:4173
- processes in low-temperature, of organic vitreous liquids, review of, 22:6328
- processes in, comparison of, with radiation processes, 22:2149
- processes in, primary, 23:35185
- radioisotope studies of, review of energetics and kinetics of, 24:50696
- reactions in, mixing effects in bleachable chain, 24:26857 (BNL-14410)
- reactions in, uses of differential thermal analysis for detection of unstable intermediates in, 24:29321
- research programs on, summary of USAEC on-site, 22:33379 (TID-4050(1st. Ed.))
- research progress in, review of Soviet, 22:12343(T) (JPRS-44048)
- research progress in, summaries of off-site USAEC, 22:18811 (TID-4005(Pt.2A)(3rd Ed.))
- review of literature on, of proteins and tobacco mosaic virus, 24:31844(R) (UCB-34-P-116-X-8)
- review on, 22:2129
- review on phosphorus compounds in, 22:25421
- use for studies on tobacco mosaic virus, 23:20447
- use in isotope separation methods, 23:28951(T) (K-Trans-51)

Photoconductive Cells
- see Photoelectric Cells

PHOTOCONDUCTIVITY
- conference on, 22:4547
- conference on, third international, Stanford, Calif., Aug. 12 to 15, 1969, 25:52895
- measurement at high frequencies in photosynthesizing systems, 25:10412(T) (UCRL-Trans-1427)
- measurement during and after ionizing radiation pulses, technique for routine, 25:55079 (SC-DC-713696)
- measurement of transient induced, contactless method for, 21:2283(R) (AD-630701)

PHOTOELASTICITY
- analysis of thermal stresses in boiler tube sheets, 21:3210 (KAPL-M-6585)
- equipment for measuring strain profile of solids, 21:24273
- fringe patterns of, fixation by gamma radiation for two- and three-dimensional problems, 25:348
- techniques for stress distributions in thick-walled pressure vessels, 23:35438

PHOTOELECTRIC CELLS
- (Including photoconductive, photoelectric, and photovoltaic cells and tubes.)
- see also Photomultiplier Tubes
- see also Radioelectric Cells
- see also Solar Cells
- book: Electronic Energy Converters (in German), 23:16699
- calibration for gamma detection, use of radioisotopes for, 23:11756 (EGG-1183-1401)
- cathode processing for, development of spectral response system for, 21:4735
- conference on, 22:4547
- description of light pen for data processing, 25:18844
- design and evaluation of, for low power energy conversion in nuclear batteries, 21:26116
- design for conversion of radioinduced ultraviolet radiation to electric energy, 24:39126(P)
- design of promethium-147 fueled, 22:33616
- design of radioisotope-powered, 24:7594(P)
- development for detection of 10- to 400-A x radiation, review of, 22:10547
- development for space power, review of, 22:13306
- development of fluorescence emission, for studying intensity of Cherenkov radiators and scintillators, 21:3243 (EGG-1183-2122)
- development of scintillation detector—photodiode system with internal amplification, 24:5882 (EUR-4269, pp 144-60)
- efficiency for detecting Cherenkov radiation, 22:33637 (CERN-68-14)
- fabrication and performance of n—p junctions in lead telluride, 25:29397
- fabrication by ion irradiation, p-n junction analysis for, 21:5115
- fabrication of n-p junction indium antimonide diodes, 24:27369
- fission-fragment effects on short-circuit currents in silicon and selenium, coated with uranium-235, 24:28152
- linearity of, system for measuring, 22:21318 (UCRL-50176)
- operation and performance of, for use in space power systems, 24:9593 (AGARDograph-123(Pt.2))
- operation of high-voltage gamma—electric cell, (E/T), 22:43959
- performance of amorphous insulating thin films, (E), 23:18472 (BMwF-FBK-68-40)
- performance of gamma—electric, (E/T), 22:47863
- performance of photodiodes with scintillation detectors, survey on, 23:50111 (CEA-Bib-169).
- performance using concentrators, 22:19839
- radiation effects on cathodes of, used for middle and vacuum uv, electron and gamma, 22:51293
- radiation effects on electric properties of silicon and selenium, coated with uranium-235, fission-fragment, 25:6597
- radiation effects on lithium-doped silicon, electron, 25:2814 (N-70-27167)
- radiation effects on quantum efficiency of photocathode materials, electron, 22:48154 (N-68-24731)
- radiation effects on silicon, subthreshold-energy electron, 24:29614 (N-70-20409)
- radiation effects on, electron and x, 25:10904 (HMI-B-97)
- response characteristics of, method for measuring frequency, 21:3274
- sensitivity of diode, for soft fluorescent x rays, 21:30701 (UCID-15164)
- sensitivity of x-ray photodiode, 24:36557 (NP-18282)
- sensitivity to soft fluorescent x rays, 22:8341 (UCID-15248)
- sensitization of, transfer method for, 22:40499
- use for energy conversion in isotopic generators, 21:26080
- use in energy conversion, review of present status of, 22:29320
- use in equipment to measure fuel particle crush pressures, 21:32040
- use in microcator for measuring positional changes of bodies at 10^{-6} m range, 22:21014 (UUIP-560)
- use in nuclear batteries to convert electromagnetic radiation to electric energy, 24:7595(P)
- use in operation Nougat, linearity measurements for, 22:21318 (UCRL-50176)
- use of cadmium sulfide, with plastic phosphor for gamma- and x-ray dosimetry, 22:25674
- use of silicon, with scintillation detector for gamma spectroscopy, 23:7782
- use of silicon, with scintillator for detecting high-energy charged particles, 23:7743
- use to study diurnal fluctuation of X agent, (E), 21:14996
- use with position-sensitive silicon detectors for detection of ultraviolet radiation, 22:28083
- uses of double, for averaging light sensor and recording system, 21:26321(P)

PHOTOELECTRIC EFFECT
- absorption coefficient in, calculations for, (T), 21:600 (LA-3581)
- angular distributions in, effect of photoelectron scattering on, (T), 22:52498
- conference on, 22:4547
- counting probability for, approximate formulas for, 21:41226
- cross sections for Z = 1 to 100 elements, tables of, 22:5869 (LA-3753)
- cross sections for Z < or = 94 elements from 0.001 to 100 MeV, data evaluation for, 23:10696 (UCRL-50400(Vol.6))
- cross sections for, compilation of differential, (T), 23:39292 (EGG-1183-1406)
- cross sections for, computer program for calculating, (T), 22:9916 (AERE-M-1956)
- cross sections for, empirical formula for interpolation of tabulated, 25:36246 (ANL-7796)
- effect of atmospheric, on ionization in ionospheric F-region, 21:11508
- effective atomic numbers for, in four alloys, 23:51369
- electron emission in gamma irradiation, (T), 25:14430
- electron energy spectra for gadolinium and terbium excited at 3.4 to 4.9 eV, 24:24139
- electron spectra from germanium and gold films excited at 1.5 to 8 keV, 23:5207
- electron spectra of molecules irradiated at 21.22 eV, spectrometer for measurement of, 24:23040 (TID-25381)
- energy loss in soft tissue, use of, in radiography for detection of breast neoplasms, 22:10785
- equations for atomic K shell, relativistic, 22:47823
- foils for, performance evaluation of, 21:2020
- interference between internal conversion and, dysprosium-161 Moessbauer observation of, 24:15421
- properties of plasmon and secondary electron emission, 21:5089
- quantum efficiency in semiconductors, 22:19838
- radioinduced, in lipid membranes, uv, 24:590
- research program on thin-film, in vacuum uv region, 25:30665(R) (UH-235-P-9-2)
- resonance processes in, 22:29235
- screening in, perturbation calculation of, 21:33149

spectra of atoms and molecules above first ionization edge, collective effects in, (T), 21:26995
theory of gamma-ray induced, (T), 22:5883
theory of, classical treatment using electromagnetic theory and quantum mechanics, 23:36507
theory of, review of, 22:43858 (NYO-3829-17)
yield calculations for copper and gold films, 25:22355
yield measurements from thin targets, 22:38799

PHOTOFISSION
cross sections and fragment yields from heavy nuclei, at photon energies of 300 to 1600 MeV, (E/T), 22:5856
cross sections for symmetric binary, from dynamic collective model, (T), 25:20499
features near threshold energy, 25:39065 (JAERI-1205, pp 52-8)
model for high-energy, of heavy elements, (T), 24:22195 (LUNP-6906)
neutron yields in, nuclear materials safeguards research on, (E/T), 23:10997 (GA-8812)
rate calculations for fast power reactors, 23:6002
reactions in plutonium-238, -240, -242, thorium-232, and uranium-238 at 5 to 10 MeV, angular distributions and fragment yields for, 24:52561(T) (LA-4385-TR)
width of, dependence on, 24:5437(T) (BNL-tr-169)

PHOTOFISSION PRODUCTS
detection and measurement of, spark chamber system for, 25:21394
gamma spectra of, nuclear materials safeguards measurements on, 23:16062(R) (GA-9077)

PHOTOGRAPHIC EMULSIONS
(Not to be confused with thicker diagnostic emulsions (see Nuclear Emulsions))
see also Nuclear Emulsions
see also Photographic Film
analysis for chlorine and iodine by neutron activation and γ spectrometry, 24:54
analysis for halides by neutron activation, 23:35025 (NBS-TN-458)
analysis for halogens by neutron activation and γ spectrometry, 23:24118
analysis for silver, system for x-ray transmisson, 25:13312
analysis for silver, use of gadolinium-153 in x-ray fluorescence, 21:27905
analysis of microcrystal centers in, for silver by neutron activation, 25:34549
analysis of, quantimet for, 23:47875 (KFK-845)
book: The Photographic Action of Ionizing Radiations, 24:2455
calibration for emission spectroscopy, computer program for, 25:2034 (RFP-1540)
coating and processing of autoradiographic, 22:36190
combinations for dosimetry over wide dose ranges, 21:26444
design for personnel dosimetry of fast neutrons, 23:17810
development and uses of, review on, 25:48921
development for alpha track autoradiography of submicron aerosol particles, 22:49075
development for electron autoradiography, 23:24423(T) (CEA-tr-R-1942)
development for radiography of reactor fuel elements, 23:11921
development of gelatin-free, for positive-ion detection for mass spectroscopy, 22:4530
exposure to gamma and x radiation, labeling cased containers by, 25:32305(P)
failure in neutron radiography, reciprocity law for, 24:5840
granularity in, measurement of, 25:51289 (EGG-1183-1477)
ion beam range measurements at 2.0 to 7.5 MeV in, beryllium-9, boron-11, and carbon-12, 22:6585
ion sensitivities for spark mass spectrometry, 21:8645
latent image fading in autoradiographic, effects of temperature, humidity, and storage time on, 23:11791
latent image fading in quantitative beta autoradiography, 23:43559
latent image formation in, effects of strong electric field on, 22:36035(T) (SLAC-Trans-85)
meson (π^-) multiple-scattering distributions at long cell lengths at 17.2 GeV/c in, 24:1499
particle track formation in, theory of, 25:13209 (COO-1671-28)
particle tracks in, automatic scanner for analysis of, 23:1929(R) (COO-1265-67)
particle tracks in, efficiency of phase holograms for analysis of, 21:45406
particle tracks in, semiautomatic apparatus for measuring geometrical parameters of, 23:6294
performance as three-dimensional medium for radiation detection, 24:14273
preparation for nuclear studies, review on, 23:11813
preparation of foamed gelatin—silver halide, for radiation detection, 24:48273(P)
preparation of layers of, for autoradiography, equipment for, 22:19179(P)
preparation of monogranular layers of, for electron microscopic autoradiography, 24:46560
properties for use in autoradiography, 21:32704
radiation effects on performance of Kodak Personal Neutron Monitoring film types A, β, γ, and x, 22:51266
radiation effects on, dispute on dose equivalences for kilovoltage, 22:51652
radiation effects on, mechanism of secondary background blackening from ion beam, 22:16969
radiation process in, 24:41666
radiosensitivity of silver bromide, effects of microwaves on, 23:4817
resolution in tritium autoradiography, 24:33901
resolution of, for detection of 7- to 60-keV electrons, 22:40384
response of ion-sensitive, dependence on ion energy of, 22:4529
response of, for detection of 7- to 60-keV electrons, 22:40383
sensitivity for tritium autoradiography, differential, 25:23804
thickness of, activation-analysis method for measuring, 25:21460
thickness of, determination by energy loss of alpha particles, 22:40366
transfer from nontransparent to transparent backing for projection, 21:19520 (EGG-1183-2133)
use for neutron spectrum measurements in VERA critical assemblies, 21:19964
use in autoradiography, criteria for, 22:10659
use in determination of thorium-232, method of introducing isotope into, 22:37692
use in dosimeter for measuring radon content in air, 21:10683
use in double-tracer macro-autoradiography, 22:49149
use of high-speed, in dental x ray techniques, 21:22515
use of, for recording of trajectory of heavy particles in bacterial cultures exposed to cosmic radiation during high-altitude balloon flights, 21:11161

PHOTOGRAPHIC FILM
see also Nuclear Emulsions
analysis and interpretation of color, for recording high-altitude nuclear explosions, 25:10893 (EGG-1183-484)
analysis for silver by neutron activation and x-ray fluorescence, 24:11549 (IA-1190, pp 93-122)
analysis for silver, on-line x-ray backscattering gage for, 25:13311
analysis of bubble and spark chamber, computer-controlled manual system for, 22:23322 (SLAC-81)
analysis of bubble and spark chamber, Hummingbird automatic digitizer for, 22:28165 (SLAC-82)
analysis of bubble chamber, design and performance of HPD Mark 2 flying-spot digitizer for, 22:23320 (CERN-68-4)
analysis of bubble chamber, performance of Spiral Reader for, 21:28215 (UCRL-17328)
analysis of mass spectrographic, digital reader for, 22:28205 (GEPP-32)
analysis of spark chamber, HUMMINGBIRD automatic film digitizer for, 21:19903 (SLAC-PUB-251)
analysis of spark chamber, SPDL computer system for, 22:36099 (SLAC-84)
analysis of spark-chamber, reader for, 21:3239 (BNL-969)
analysis of, in diagnostic radiology, method for, 21:12935
analysis of, quantimet for, 23:47875 (KFK-845)
assay of developer activity of x-ray, method for, 22:40785
background suppression in long-exposure autoradiographic, 24:5896
characteristics of Polaroid, for thermal neutron radiography, 25:23926
comparison for use in dosimetry, 23:12121
comparison of dosimetric, in Euratom countries, 23:12112
comparison of high speed, for use in streak camera recording systems, 25:37193 (MHSMP-71-32)
construction of functional, from spatially localized rate constants obtained for serial camera and rectilinear camera, 24:21232
contrast for radioisotope scans, method for enhancing, 22:40762
cosmic shower energy determination in x-ray RT-6, photometry of densities for above-$6(10)^{11}$ electron—photon, (E), 25:428
data processing of, computer program for, 23:34955 (COO-1018-1174)
data recorded on, electric scanning system for scanning, 23:33575(P)
density of fine-grain, effects on radiographic image quality, 23:33358
design and performance of, for γ radiation dosimetry, 24:2662
development for dental radiography, 22:12870
development for radiography of highly radioactive fuel elements, 24:27304(T) (LA-4366-TR)
development of color, for nondestructive testing, 21:10558
digitizing computer program for, 22:6232 (UCID-15212)
display monitor for bubble chamber, on-line storage, 25:49009
drive design for x-ray, in Moessbauer spectrometer, 22:14637
effectiveness of small size, for radioisotope scan images, 24:44549
evaluation for use in color radiography, 23:17719
evaluation for use in portable radiographic equipment using iodine-125 source, 25:21237
evaluation of Polaroid, for use with gamma cameras or cathode-ray scanners for radioisotope scanning of human organs, 24:14534
exposure time for radiographic, charts for radiation source, 23:7707 (AAEC/TM-460)
fogging in space, effects of reduced-storage temperature on, 23:38142 (N-69-18734)
fogging in, low humidity induced, 21:12690 (UCRL-50007-66-1, pp 44-5)
forming to spherical shapes, equipment and technique for, 25:3996 (UCRL-50926)
image quality for medical radiography, 24:2451 (PHS-999-RH-38)
image quality on, in medical x-radiography, method for standardizing, 24:36774
intensifier foil for x-ray, transparent, 21:8629(P)
labeling for use in autoradiography, device for, 22:43189
optical transfer function with lead filter for gamma radiography, 24:7638
particle tracks recorded on, computer aided measuring projector for analyzing, 23:14039
particle tracks recorded on, optical scanning system for analysis of, 22:10605(P)
performance for fast neutron radiography, 24:16845
performance for radiation detection, state of the art and methods for improving, 24:14272
performance of Cinemoid color, as dosimeters for gamma and x radiation between 10^5 and 10^8 R, 21:10681 (USNRDL-TR-1097)
performance of electroradiographic and standard x-ray, comparison for industrial radiography, 24:29472
performance of ORWOCOLOR, for color radiography in 100 kV to 15 MeV energy range, 23:33360
performance of Polaroid Types 52 and 57, in neutron radiography, 25:57691
performance of standard x-ray, for recording of Moessbauer spectra, 23:29158
performance of x-ray, for industrial radiography, 25:29294
preparation and use of cellulose nitrate, in α autoradiography, 21:1916 (BNWL-324)
preparation of non-silver, for radiation imaging, 24:19220(P)
printing by use of filtered irradiation beam for construction of isodose curves, 24:813
processing of color, bromine rejuvenation of ferricyanide bleach in, 22:27523 (SC-DC-68-2132)
processing of Ektachrome, for industrial color radiographs, 21:12612
processing of medical x-ray, variation in, 24:39212 (BRH/DEP-70-13)
processing of radioisotope scan, 22:49401
processing of x-ray, method for manual, 23:12151(T) (TT-67-56003/5, pp 725-9)
processing of x-ray, study of developers used in, 25:37234(T) (SC-T-713035)
processing of, radiometric notch-sensitive cuing system for, 25:18818(P)
properties for measurement of beta rays and electron beams, 24:11776
properties for use in radiation dosimeters, evaluation of, 21:38815(R) (BNWL-293)
protection of types 103-0 and plus x, on space vehicles, 22:48983 (N-68-25220)
radiation effects on Apollo telescope mount, cosmic, 24:5970
radiation effects on Apollo telescope mount, proton, 22:38186 (N-68-11469)
radiation effects on Apollo telescope mount, space, 24:538 (N-69-35123)
radiation effects on ATM, high-energy proton, 25:4407 (N-70-35923)
radiation effects on solarization in, alpha, 23:4819
radiation effects on x-ray, background and natural, 23:24231
radiation effects on x-ray, gamma, 21:363
radiation effects on, gamma and proton, 25:4406 (N-70-35843)
radiation hazards to ATM, space, 25:4405 (N-70-32671)
radioinduced degradation by trapped protons in ATM orbit, analysis of, 25:23934 (N-70-37568)
resolution and sensitivity of x-ray, for gamma radiography, 24:16862
resolution of radiographic, methods for increasing, 24:21180
resolution of radiographic, relations of exposure time and film thickness with, 25:4251
resolution of, method for determining relative, 23:26144 (UCRL-50565)
response of x-ray, at 0.005 to 1.3 MeV, quantitative calibration of, 22:8360
response of x-ray, with lead intensifying screen for radiography, 23:21914
scanning and measurement of bubble chamber, computer-controlled projector for, 21:19925
scanning and measurement of bubble chamber, design of projectors for, 21:19919
scanning and measurement of spark chamber, use of computer-controlled flying spot digitizer for, 21:26190
scanning and measuring of bubble and spark chamber, detectors for automatic stop devices in, 21:22126 (CERN-66-36)
scanning and measuring of bubble chamber, automatic track following system for, 21:22131 (NYO-2171-222)
scanning and measuring of bubble chamber, design and performance of projector for, 21:19918
scanning and measuring of bubble chamber, design of projection table for, 21:19920
scanning and measuring of bubble chamber, logic coupling of computers and projectors for, 21:19917
scanning and measuring of bubble chamber, system for, 21:19916
scanning and measuring of bubble chamber, system for, 21:18911
scanning and measuring of spark chamber, system for, 21:19924
scanning of spark chamber, fully automated HPD system for, 21:22130 (NYO-2171-221)
scanning projector for 35 mm, for processing spark chamber data, 21:16202
scanning spark-chamber, design of equipment for, 21:6363
sensitivity for detection of x rays, spectral, 22:12584
sensitivity for use with light-emitting intensifying screens for low-intensity neutron radiography, 23:38211
sensitivity of color, for radiography, 23:6274
sensitivity to nuclear radiation in near-earth orbital missions, 22:12730
silver content of, x-ray fluorescence method for determining, 22:45343
silver surface density measurements on, x-ray fluorescence densimeter for, 25:37666
silver thickness measurements on x-ray, x-ray absorption gage for, 22:43146
spectral sensitivity of, effects on radiographic image quality, 23:33357
theory of photographic process, 24:27351
transport device for nonperforated 50 mm, design of unified, 23:35361 (JINR-P13-4474)
transport system for automatic measuring machines for bubble chamber, digitally controlled fast, 25:49008
use for dosimetry of γ rays, electrons, and photons in water equivalent phantom, 22:36285

use for leak testing of sealed radium-226 sources, 22:38306
use for measuring dose values on walls of x-ray therapy rooms, 21:39292 (SZS-8/67)
use for scientific photography in Project Sulky, 21:1479 (PNE-710-F)
use in electron scattering measurements, accuracy of, 22:5113
use of color, in proton channeling studies, 21:21104
use of dry developing, for registration of charged-particle tracks, 22:38019
use of γ-calibrated, in dosimetry, 21:12865
use of Polaroid type 57 sheet, for recording x-ray Laue and pinhole diffraction, 21:4676
use of standard industrial x-ray, for target alignment in Cockcroft—Walton accelerator used as neutron source, 23:13176
use of, combined with copper foil filters, for radiation field control of cobalt-60 therapy unit, 21:14695
use with phosphors for determining activity of dust particles on air sample filters, 22:28515
uses of color, in x radiography, 25:18612(T) (LIB/Trans-324)
uses of Polaroid, for detection of iodine-131, 23:49740
uses of specially adapted, for color radiography, 25:23749(T) (LIB/Trans-342)

PHOTOGRAPHY
see also Cameras
see also Electrophotography
see also Photographic Film
see also Photomicrography
see also Spark Shadowgraph Photography
bibliography on Schlieren, 24:22533 (LA-4380)
conference on pictoral pattern recognition, 22:38174
conference on uses in medicine, 25:32488
darkroom timer for, 24:26907(R) (NBL-250)
description of Project Air Vent, for surface motion measurements, 23:9595 (SC-RR-64-1703)
development of acoustic holography for reactor vessel inspection, 23:6320 (BNWL-SA-2017)
development of microscopic, for Rankine cycle phase distribution studies, 22:10486(R) (SAN-677-19)
equipment and methods for recording in-tank processes during underground storage of liquid radioactive wastes, 23:40965 (ARH-1206)
equipment and methods for stop-motion flash, of projectiles in flight, 22:22896 (LA-3874)
equipment design for, in bubble chambers, 22:30864
equipment for auroral observations, image orthicon, 21:16861
equipment for high-speed, conference on use of photo-electronic image device, 22:4539
equipment for holography, design of x-ray interference, 22:45358(P)
evaluation for determining γ-radioinduced damage to vegetation in tropical rain forests, 25:21634 (TID-24270, pp B.63-78)
experiments in, for particle tracks in bubble chambers, 22:12647
Fourier transform, for x-ray astronomy, (E), 23:34180
holographic measurements on vibration amplitudes using Powell and Stetson fringes, (E), 23:26129 (AWRE-O-72/68)
image converters for, of weakly luminous transient phenomena in plasma, 21:20922 (CEA-R-3097)
image enhancement in, development of methods for FFTF fuels, 24:31631 (BNWL-1321)
instrumentation and methods for Project Palanquin nuclear explosion, 24:36444 (PNE-908-F)
light sources for high-speed, use of lasers for, 24:47201(T) (AEC-tr-7166)
method for display and storage of radioisotope scans, 24:12182
method for fine-structure study of solar flares, 22:47785
method for high-speed, for studying post-burnout two-phase flow, 25:54875 (RT/ING-(71)8)
method for preparation of master of ground plane printed circuits, light-refraction, 23:47873 (HASL-208)
method for processing radioisotope scans to improve display of isotope distribution, 22:49401
method for recovery of faded photographs by neutron irradiation, 24:14191
method in field of high frequency currents, 25:31733(T) (SC-T-713025)
method using high frequency currents, 25:26125(T) (SC-T-713018)
methods for transmission scinti-, of human organs, 22:51823
methods for use in forensic science, 23:14109
methods for use in forensic science, 23:14110
methods of high-speed, for studying electric discharges in gases, 21:22215
optical distortions in, of bubble chamber particle tracks, 22:12615 (CERN-67-26(Vol.1), pp 201-13)
optical distortions in, of bubble chamber particle tracks, effects of turbulent convective motions on, 22:12616 (CERN-67-26(Vol.1), pp 215-28)
performance for holographic measurements of plasmas, 24:42660
performance of aerial, for determining ground motion from Project Benham, 25:284 (AD-709735)
performance of time-lapse, to study proliferation kinetics of uv-irradiated cell cultures from mice, 24:14593
print production for early Fox Talbot photographs by neutron activation and autoradiography, 21:25921
radioinduced recovery of faded paper photographs, tintypes, and glass-plate negatives in, neutron, 25:26287
reproduction of photographic print by neutron activation autoradiography, 22:16398 (GA-8171, pp 119-32)
reproduction of photographs, use of computer-controlled microfilm reader for, 21:34202 (UCID-15144)
research progress on, in metallography, 21:34853 (ORNL-TM-1733)
shutter for high-speed, design of electro-optical, 21:37419 (NP-16711)
system for fuel elements, automatic, 21:8016
technique for chromosome gaps in opossums, 23:43856(R) (UCD-472-242)
techniques for digitizing photographs, computer, 21:34202 (UCID-15144)
techniques for reproducing particle tracks in bubble chambers, 23:2645(P)
use for determination of effects of laser radiation on eyes of mammals, 21:26569
use for plasma jet diagnostics, 21:29212
use for plasma jet diagnostics, 21:37418(R) (N-67-19949)
use in analysis of smoke plumes, 21:25986 (ANL-7220, pp 89-96)
use in constructing isodose curves for human body, 21:20258
use in studies of smoke plumes from industrial stacks, 21:22042 (NYO-3685-7)
use in tracking nitromethane explosion-produced clouds, 22:198 (PNE-1108)
use in visualization of high-pressure boiling water flow, 21:41143
use of aerial, for identifying close-in ground surface effects of Project Rulison, 24:50477 (NVO-1163-TM-23)
use of chemo-, techniques for evaluation of autoradiography data, 23:2877
use of cine scintillation, for determining abnormalities of cardiopulmonary circulation, 22:25859 (UCLA-12-668, pp 1-28)
use of color, in radiodiagnosis, 21:16057(P)
use of high speed, to measure surface motion in Project Pre-Schooner, 23:11682 (PNE-506-F)
use of in-line Fraunhofer method of, for recording particle tracks in bubble chambers, 21:14445
use of microcinema-, to study x radiation effects on cytokinesis of Triton erythroblasts, 22:33954
use of micrographic, to study x-ray effects on blood circulation in chicken embryos, 22:31253
use of polaroid technique for, of radioisotope scans, 22:40762
use of three-dimensional, for contour mapping of explosion-created craters, 22:12462 (SC-DC-67-2330)
use of time-lapse, for studies on proliferation kinetics of x-irradiated L cells, 22:36356
use of, for isodose calculation in γ-teletherapy, 21:10908
use of, for rapid duplication of scintiscans, 21:6606
use of, in reconstruction technique for studies on radioinduced brain lesions, 21:14720
use to study chip flow in two-flute twist drills, 22:14406 (Y-DA-1999)
uses of aerial, for mineral prospecting, 25:8378
uses of aerial, in uranium prospecting, 25:8375

Photoluminescent Detectors
see Radiation Dosimeters, Photoluminescent

PHOTOMETERS
see also Fluorophotometers
see also Phosphorometers
see also X-Ray Photometers
circuits for PFIL 70, for nuclear emulsion particle track analysis, logic, 25:55045 (LUIP-CR-71-2)
design and calibration of filter wheel, for Cariboo II project, 21:30331 (SC-TM-67-334)
design and performance of microscope, for measurements in microautoradiographs, 21:26308
design for determining rate of radiographic film exposure, 24:19179 (FOA-2-2307)
design for identifying charged particles stopped in emulsions, 22:19111
design for measuring intensity of P-16 phosphor cathode ray tubes, 23:2695 (LA-3975)
design for use in studies of upper atmosphere light emissions, 21:24258
design of beta-excited light source, for measuring light absorption in liquid samples, 21:34517 (ORNL-4091, pp 22-35)
design of digital, for dose evaluation of photographic film dosimeters, 21:43276
design of double-beam differential null-balancing, engineering drawings for, 21:32552
design of double-beam null-balancing, for examining zirconium weld test specimens, 21:34517 (ORNL-4091, pp 22-35)
design of light scattering, for air filtration system studies, 25:31702 (LA-4627)
design of, with radioisotope-activated scintillator light source, 22:51269(P)
development of bioluminescence, for mapping of marine bioluminescence data, 23:2804(R) (NYO-3480-10)
development of portable smoke, 21:447(R) (BMI-1778)
lenses for all-sky, evaluation of, 21:42848 (LA-3727)
light source for, design of β-excited, 21:32548
performance of Mie scattering, for testing particulate—air filters and aerosol studies, 24:11860 (SC-TM-70-15)
preamplifier for, circuit design for, 21:32548
reliability of smoke, use of semiconductors to increase, 21:30737 (CONF-660904-Vol.1 and 2, pp 928-40)
television microscopes for use as, control system for plate movement of, 21:38863 (UUIP-544)
use of absorption flame, for analysis of manganese nodules for trace elements, 21:30529 (COO-1540-6)
use of lithium flame, filter testing by, 21:30578 (CONF-660904-Vol.1 and 2, pp 1032-62)

PHOTOMETRY
see also Colorimetry
see also Spectrophotometry
see also X-Ray Photometry
accuracy in radiographic control of uranium distribution in aluminum clad plate type fuel elements, 23:40457(T) (ORNL-tr-2131)
background effects in stellar, (E/T), 25:27341
beta-excited isotopic light sources for, 22:14433 (ORNL-4196, pp 66-89)
book: Atomic-Absorption Spectroscopy, 23:24084
calibration for transformation formulae in theoretical (U - B) and (B - V) colors, (T), 23:27234
calibrations of uvhyβ and gnkmf systems, (E), 25:58480
classification of stellar spectra by photoelectric narrow-band, (T), 22:7124
data for atomic-absorption flame, of barium, beryllium, boron, and europium, 22:30442
developments in emission flame, comparison of atomic absorption spectrometry with, 24:5584
developments in, 1967-69, 24:26955
instrumentation for ultraviolet, onboard OAO-2, (E), 24:42335
interpretation of eclipsing stellar systems in, (T), 22:36573
line-blanketing effects on uvbyβ system in, (E), 24:17450
method for, of 5303 and 6374 A coronal lines, (E), 25:40284
performance of UBVr, for discovery of peculiar stars, (E), 24:19558
photoelectric, from the Orbiting Astronomical Observatory, (E), 24:51273
photographic, stellar intensity profiles in emulsions for, (T), 24:10240
radiation magnitudes and units, 22:17024
radioactive light sources for photoelectric, (E), 23:30209
sensitivity of flame, effects of increasing signal-to-noise ratio on, 22:14425 (ORNL-4196, pp 1-12)
standard stars for five-color, (E), 25:32881
stellar classifications by Stroemgren, (T), 25:13809
stellar, Shilt's method with the electronic camera for, (E), 24:35021
stellar, twelve-color, (E), 23:51178
transfer of systems from northern to southern hemisphere, (E), 25:38073
units, definitions, and conversion factors for, 23:1164
use in determination of trace elements, review on, 22:33213
use of lithium flame, for on-site testing of dust filters, 23:13927

PHOTOMICROGRAPHY
see also Microscopy
development for studying phase distributions in linear and helical boiling mercury flow, 22:47285(R) (SAN-677-29)
preparation of porous ceramics and metals for, 22:43544 (Y-1625)
use of cine-, for evaluation of laser effects at a cellular level, review of, 21:24651
use of intermediate, for particle track measurements in nuclear emulsions, 21:10639

PHOTOMULTIPLIER TUBES
after pulsing in, design of time-to-amplitude converter for studying, 21:39302
after-pulsing in type 58AVP, suppression of, 24:9719
afterpulses in, 21:4729 (NYO-3421-9)
afterpulses in, scintillation detector errors due to, 24:44279
amplification of, method for automatic regulation of, 23:33562
amplification stability of FEU, 22:30916
amplification stability of, used in eight-crystal scintillation gamma spectrometers, 22:36095
amplification stabilization of transistorized, use of semiconductor light sources for, 21:45465
background currents in, use of lead glass light guide for reduction of radioinduced, 24:48298
cathode resolution in, for Cherenkov shower spectrometers, 21:16177
cathode uniformity of, effects on resolution of scintillation detectors, 21:32454
cathode yield characteristics in, effects of temperature on, 23:45590
cathode-follower circuit with feedback for, design of linear, 25:18860
cathodes and dynodes of, efficiency of, 21:24245 (CEA-R-3143)
cathodes for, temperature dependence of photoemissive yield of intermetallic compound Cs_3Sb, 21:34533
characteristics of FEU-77, for light pulses in 700 nm range, 22:47423
characteristics of, table of, 24:50574
circuit for use in pulse radiolysis, gating, 25:4398
circuits for nanosecond range, highly-sensitive counting, 25:48908
circuits for neutron—gamma discrimination, space-charge, 23:26611
circuits for, design and performance of blanking, 23:11897 (CERN-68-41)
circuits for, design of coincidence—anticoincidence, amplifier—discriminator, and amplifier, 22:38158
cooling for photon counting experiments, merits of, 24:14372
cooling system for end-on, 24:27466 (ANU-P-490)
current-to-frequency converter for automatic thermoluminescence readout, 24:39399
current-to-frequency converter for, design of linear seven-decade, 24:2519 (UCRL-71766(Rev.1))
dark current and noise reduction in, magnetic defocusing method for, 21:14506
dark current problem in, study of, 21:12712(R) (NYO-3421-8)
dark current production by Cherenkov pulse due to cosmic mesons (μ) in, used for spectrophotometry of faint astronomical sources, 22:51286
description for detecting metastable electronically excited molecules, 22:38150 (UCRL-17989, pp 167-79)
description for low level Cherenkov detectors, 23:2046
description of low-noise, 21:39297
design and characteristics of, review of, 23:7917
design and fabrication in Czechoslovakia, 22:38154
design and fabrication of, 22:6673 (DEG/SINR-68)
design and fabrication of cross-field, with nanosecond risetime for nuclear studies, 22:28231
design and performance for low-intensity light beams, 23:33560
design and performance for thallium-activated sodium iodide scintillation counter, 23:7725 (AERI-22)
design and performance of 56 DVP and XP 1210, 23:41016

design and performance of, for scintillation counting in severe shock and vibration environments, 21:32453
design and performance of, in combinations with thallium-activated sodium iodide scintillation detectors, 22:8354
design and performance using transfer technique for photocathode activation, 24:19269
design for coherent photon correlations, 21:6294
design for low-level scintillation detector, 24:46492(P)
design for neutron time-of-flight spectrometer, 23:32902(R) (RLO-1925-20)
design of arrays of, for detection of atmospheric light signals from cosmic showers, 25:2490
design of high resolution, using semiconductor multipliers, 21:24266
design of modified, as channel electron multiplier, 21:41302
design of ultra-high speed microchannel HR 300, 24:39283
design of, capable of withstanding shock acceleration of 10,000 g, 22:40501
design with high quantum efficiency and low dark current for use with scintillation detectors, 22:40430
design with large diameter cathodes and toroidal multiplying systems, 21:352
design with noise discrimination for scintillation detectors, 23:13996(P)
design, fabrication, and operation of, 21:12711 (NP-16430)
design, operation, and performance of, 21:39298
development for high counting rate experiments, 22:26929(R) (COO-1420-139)
development for use in radioisotope scanning, 23:50159
development for use in radioisotope scanning, 23:50160
development of cesium-doped gallium phosphide-dynode, review on, 24:39282
development of focused-dynode PM 406F, for space applications, 24:39284
development of highly-sensitive PM 55, with transparent Cs—K—Na—Sb photoelectric surface, 22:12582
development of low-radioactivity, 21:26263 (ANL-7220, pp 39-41)
development of metal—ceramic, for use at temperatures up to 175°C, 22:40502
development of microwave-gated, 21:16217 (CONF-660918-, pp 157-70)
development of multichannel, for detection and measurement of x radiation, 21:28217(T) (AD-645794, pp 5-17)
development of XP 1230, for liquid scintillation detectors, 24:39284
development of, for high-energy physics, 21:3250 (UCSB-34-P-135-1)
diode for hybrid, description of reverse epitaxial silicon, 22:40500
dynode development for fast, silicon transmission secondary electron, 25:6245(R) (NYO-4100-3)
dynode gain of, effects of temperature on AgMgOCs, 21:17917
dynode secondary emission characteristics in, effects of temperature on, 23:45590
dynode, effects of capacity of, on n-γ discrimination circuit, 21:24410 (NIRS-5, pp 1-10)
dynodes for, design of high-gain cesium-doped gallium phosphide, 23:11919
dynodes in, single-electron response of porous potassium chloride transmission, 21:16233
efficiency in scintillation counters for low-activity and low-energy beta particles, 21:14435 (NP-16534)
efficiency of fast, associated with threshold circuit, 22:19207
efficiency of PM 56 TVP, improvement of, 25:18828 (EUR-CEA-FC-576)
efficiency of RCA C 31000 E/F, at 6328 A, measurement of quantum, 25:23916
efficiency of, electrode operating voltage effects on, 25:23911 (IFVE-SEF-70-11)
electron collection efficiency in, analysis of input focusing for determining effect of voltage on focus electrodes on, 23:41171
electron collection time in FEU-63, 21:45474
electron distribution in, DYNO-1 computer program for determining secondary, 21:4727 (KAPL-M-6575)
electron emission from dynodes of, delayed, 21:45466
electron emission in, effects of localized electric fields on, 21:20008
electron response function of, use in theoretical analysis of resolving time in scintillation detectors, 21:39223
electron secondary emission processes in, 22:40424
electron time-of-flight in, variations of, 22:30917
electron transit time fluctuations in, measurement of, 23:50155
electron yields from dynodes of, Polya statistical model for secondary, 21:36449
field theory for high resolution of thermal radiation, quantum, 22:23302
focusing adjustments for XP 1020, description of, 22:49076
gain of RCA 7046, for fixed dynode potentials, detector load dependence of, 22:23368
gain reduction in, blocking circuit for, 23:9788 (CEA-R-3565)
gain shift due to magnetic fields from polarization analyzers in, used for gamma circular polarization measurements, 23:14002
gain stability in high-current, at high variable counting rates, 21:36454
gain stability problem in, study of, 21:12712(R) (NYO-3421-8)
gain stabilization in HPD flying spot digitizer, for bubble chamber film analysis, 23:47829
gain stabilization of, gallium phosphide diode light sources for, 24:14247 (LA-4263)
gain testing and regulation in, digital high-voltage supply for automatic, 23:41109 (EUR-4289, pp 265-7)
gain variations in, use of voltage-dependent-resistor dynode chain for reduction of, 21:16191
gain-control in high-radiation environments, circuit design for automatic, 22:2463
gating circuit for fast neutron inelastic scattering measurements, 24:11814
gating method for stimulated-spontaneous light scattering discrimination, 21:31254
gating systems using integrated circuits for, bistable symmetrical, 25:49064
light collection for, solid light funnels for increasing efficiency of, 22:43034
light emission from, analysis of extraneous, 21:32523
light impact on photocathode of, localization of position of, 21:10712
light measurements with, noise characteristics in, 22:43147 (AE-323)
light pulser measurements on XP 1210 high-speed, 23:14090
linearity of, phase-sensitive detection method for testing, 21:32537
magnetic shielding for use in Cherenkov detectors, 23:45532
noise characteristics of, method for evaluating optimum, 23:49582 (ANL-7410, pp 339-86)
noise in, circuit for suppressing, 22:48509(R) (BMwF-FBK-68-22)
noise in, direct measurements of, 21:26286
noise in, review of, 21:6347
noise in, source-dependent, 25:2461
noise levels of, testing techniques for determining, 21:41296
operating characteristics of, for high resolution gamma spectroscopy using thallium-activated sodium iodide scintillation detectors, 22:51246 (RT/EL-(68)1)
operation and performance for photon detection in beam—foil spectroscopy, 25:15973
operation and signal-to-noise ratios of, analysis of, 24:14371
operation of proposed multichannel spectra, for photon imaging, 24:19275
operation of, computer simulation of, 21:14498 (NP-16546)
optical coupling of 5-inch, to scintillator plastic and glass surfaces, 21:24267
performance for detection of Cherenkov radiation for location of beta, gamma, and neutron sources underwater, 23:24432 (UCRL-50007-68-2, pp 8-20)
performance for dosimetry of pulsed x radiation, 22:6655
performance for gamma detection, 24:33888
performance for laser interferometry, 21:19992 (SC-DR-66-2689)
performance for liquid scintillation counting, effects of after-pulses on, 22:51224
performance for low-energy neutron—gamma discrimination with scintillation detector using space charge method, 23:17767
performance for measurement of photon emission from rubidium-85 ions following beta decay of krypton-85, 24:11885
performance for photon counting, 24:532
performance for threshold gas Cherenkov counters, 25:44692
performance for use in radiation detectors, 22:21318 (UCRL-50176)
performance for use with large scintillation detector, 22:49399
performance in electron—gamma correlation spectrometers, 21:17847
performance of fast high-gain, in scintillation detector hodoscope, 24:29500
performance of gated, with scintillation detector for neutron inelastic scattering measurements at 0.8 to 15 MeV, 24:14294 (RPI-328-176)
performance of hybrid, in scintillation spectrometers, 23:47801
performance of large photocathode, 25:10847
performance of RCA 8575, with thallium-activated sodium iodide scintillator combinations, 21:24214
performance of RCA C31 000D, for liquid scintillation counting, 25:34895
performance of, circuit for monitoring, 22:14885
performance of, in thallium-activated sodium iodide scintillation detectors, 21:12644 (USNRDL-TR-1099)
performance with dual-phosphor scintillation detectors for monitoring α and β activity on human hands, 22:45562
performance with scintillation counter for measurement of activity from radon decay products on filter paper samples from air of uranium mines, 22:45561
photocathode spectral sensitivity in, temperature effects on, 21:3338 (CEA-R-2995)
photocathode uniformity of large end-window, measurement of, 22:10541 (MIT-952-4, pp 267-99)
photocathodes for, technology of antimony—cesium, 22:12215(T) (UCRL-Trans-10201)
photoelectron statistics and time resolution of high gain first multiplier, 24:39288
photon collection in, effects of scintillation detector geometry of time probability of, 21:6211
photon pile-up in excited-state lifetime measurements by single-photon counting, correction methods for, 24:19205
power supplies for, description of high-voltage, 21:32535
power supplies for, design of high-amplification divider, 21:8649
power supply design for, 23:29275
power supply for FEU-30 and -52, pulsed, 24:11865
power supply for space-borne particle spectrometer, hybrid, 24:39252
power supply for, design of stable transistorized, 23:41152
power supply for, stabilized high-voltage, 22:47421
preamplifier for, design of voltage-sensitive, 24:529
properties of FEU-79, for astronomical photon observations, 25:42068
properties of, logarithmic, 23:14098
pulse and time-delay characteristics of FEU-30 and FEU-36, 21:6345
pulse characteristics of RCA-6810A, 25:380
pulse converter for, design of time-to-amplitude, 22:38159
pulse handling circuits for, for well logging device, 21:28097(P)
pulse height distribution of dark current pulses in, measurement of, 24:11891
pulse integrators for, design of nanosecond, 22:4519
pulse parameters of short-time, experimental approximation methods for determining, 22:33690 (ZfK-121, pp 134-248)
pulse shaper for scintillation detector, design of, 25:29342
pulse shaper for, design and performance of, 25:29347
pulse shaper for, design of, 22:28121
pulse shapers for standardizing signals from, design and performance of, 24:2514 (CERN-69-26)
pulse-shape discrimination of high-energy electrons and muons, 22:2421
pulses from FEU-36, temporal fluctuations of, 24:11866
pulses from Philips 58 AVP, effect on neutron time-of-flight spectroscopy of secondary, 22:10588
pulses from, design and performance of discriminator for time measurement of fast, 21:12722
pulses from, sampling techniques for statistical analysis of, 23:21989
radiation effects on dark current and noise pulse spectrum of, α, β, γ, and cosmic, 21:43316
radiation effects on performance of, γ, 21:34550 (CEA-R-3154)
radiation effects on, aboard OGO-2 and OGO-4 satellites up to 1500 km, charged-particle, 23:26638 (N-69-18074)
radiation effects on, electron and x, 25:10904 (HMI-B-97)
radiation effects on, ionizing, 23:20075 (N-68-37035)
radiation effects on, simulated space, 24:27479 (N-69-20777)
radiation effects onboard spacecraft from radioisotope thermoelectric generator, 24:46557
radioactivity of large diameter FEU-9, with flat photocathodes, 21:16239
radioinduced dark current in, cosmic, 21:362
radioinduced noise in star tracker, electron, 22:12728
radioinduced optical density change in glasses used in FEU-13, -14, -52, and -56, gamma and neutron, 21:8662
readout circuits for, 22:21400(P)
resolution of high gain first dynode, pulse-height, 23:11920
resolution of, measurement of amplitude, 23:31529
resolution of, statistical study of energy, percussional, and time, 21:14498 (NP-16546)
resolving time of, as function of fractional triggering level, 21:39299
response and afterpulsing in, single electron, 22:12711
response of Dario 56 AVP, XP 1021, and XP 1210, time fluctuations in, 23:35543 (CEA-R-3802)
response of, derivative measurement of, 22:43183
response of, effects on sensitivity of readout equipment for thermoluminescent dosimeters, 21:45436
response of, measurement of single electron, 24:11891
response of, to gamma rays, 21:16229
response of, to light source, 21:20011
response time of, use of crossed electric and magnetic fields for improved, 23:26622
response to light pulses having duration time close to resolution time, (T), 21:6260
response to short signals, time, 22:49170
saturation current in crossed-field, effects of space charge, anode field, and initial electron velocities on, 24:19264 (UCRL-50761)
sensitivity and stability of, fatigue effects on, 24:19276
sensitivity of FEU-43, dependence of gamma spectrometer resolution on variations of, 21:299
sensitivity of scintillation counter, single electron, 21:22155
sensitivity of, method for determining, 23:2720
sensitivity of, optical method for increasing, 23:38359
sensitivity to ionizing radiation, 23:20075 (N-68-37035)
sensitization of, transfer method for, 22:40499
shield and base for, design of, 22:38151 (UCRL-18031)
signal-to-noise ratio for EMI 6256, effects of cooling on, 21:36450
signal-to-noise ratio improvement in, for very weak signals, 23:41173
single-electron time spread measurements for, 21:32522
socket assemblies of, design of pulse limiters for protection of logic circuits from overloads originating in, 22:12699
spark-over indicator for, 22:47420
spectral matching to various solutes in liquid scintillation counting, 22:8343
stability in scintillation detectors, 22:38017
stabilization of scintillation detector, internal compensation system for gain, 24:39261
stabilization of, servo-circuits for, 22:47331
switching of, methods for, 23:41172
temperature effects on scintillation detector, at 20 to 70°C, 25:55025
testing of controllable fast-response, 21:3345(T) (UCRL-Trans-1335)
testing of RCA 8575 fast, with gallium-phosphide diode XP-20 nanosecond light source, 22:4520
testing of, used in radiation monitoring instruments, 22:6556 (CONF-650460-1)
testing of, with cesium telluride photocathodes, 23:11917
thermal stability of, 25:42092
time resolution of XP 1021, with scintillation detectors, 24:29517
time resolution of, optimal, 25:44723 (IFVE-SEF-70-52)
time resolution with gallium phosphide first dynode, single-photon, 24:25338
time-spread characteristics of Valvo 58 AVP, 22:2461

timing characteristics of, method for evaluating, 23:49582 (ANL-7410, pp 339-86)
timing circuit for, with time shift compensation, 24:29608
timing coincident pairs of, use of radiation sources and scintillators for, 21:16234
timing properties of, in scintillation—photomultiplier systems, 21:45414
timing with, double sampling technique of pulse processing for improving, 21:32507
transit time reduction in, used in trigger circuits of spark chambers, 23:47820
trigger circuit for, design of constant fraction of pulse height, 25:2458
use as photon detector, 22:8418
use for cosmic muon momentum measurements, 21:3283
use for readout of photoluminescent dosimeters, 21:26211 (ANL-7220, pp 27-9)
use in fast-pulse radiolysis systems, 21:45467
use in photomultiplier—amplifier—discriminator system for processing gamma radiation signals from scintillation detectors, 21:45368 (N-67-25871)
use in scintillation decay time measuring system, 21:4690 (ORO-3349-2)
use in thermoluminescent dosimetry systems, 21:3318
use of 10-stage, with commercial nanosecond electronics, design of ac-coupled preamplifiers for allowing, 21:43309
use of controlled-grid, for fluorescence time measurements in nanosecond region, 25:43452
use of gridded, for coincidence measurements, 22:33690 (ZfK-121, pp 134-248)
use of image-dissector, in analytical spectroscopy, 21:40772 (IS-1600, Paper 3)
use of microwave-gated, for studying beam bunching at Stanford Linear Accelerator, 21:16217 (CONF-660918-, pp 157-70)
voltage divider for, design of low-resistance, 23:753
voltage divider for, design of low-resistance, 23:35547(T) (LA-4115-TR)
voltage indicator for, design of low-power high-, 21:39307

PHOTON BEAMS
energy determination above 5 GeV, method for, 25:56609(P)
energy distribution studies on, 24:35
focusing of, design of diaphragm for, 24:9726(P)
inlet channel to hydrogen bubble chambers, design of, 24:14307
intensity and exposure rate for medium-potential-generated bremsstrahlung, attenuation of, (T), 24:28651
interference of single photons in low-intensity, (E), 23:30697
monitoring and control of, design of nonintercepting system for, 24:5374
monitoring and control of, design of nonintercepting system for, 24:5375
monitoring at Bonn electron synchrotron, design and performance of quantameter for, 22:46689
monitoring at Cambridge Synchrotron, calibration and performance of quantameters for, 22:46690
monitoring at DESY, calibration of quantameters for, 22:46688
monitoring at DESY, calibration of systems for, 22:46658
monitoring at Frascati Synchrotron, calibration of quantameter for, 22:46691
monitoring at Stanford Linear Accelerator, quantameter for, 23:1750
monitoring of 302- to 1102-MeV, calibration of ionization chambers and quantameters for, 25:42083
monitoring of 4- to 27-MeV, sensitivity of thick-walled aluminum ionization chamber for, 22:46664
monitoring of high-intensity multi-GeV, design and operation of systems for, 24:13246
monitoring of position, intensity, and energy distribution of low-intensity, method for, 25:42098
monitoring of, calibration of Wilson type quantameter for, 24:28667
monitoring of, cryogenic calorimeter for use as absolute reference quantameter for, 22:46666
monitoring of, high-sensitivity double on-line quantameter for, 24:27419
monitoring of, use of quantameters for, 22:46687
polarization plane of low-energy linearly polarized, method using rectangular lithium-drifted silicon detector for determination of, 25:48917
production in 2-GeV electron accelerators, system and parameters for, 24:45702
production of high-energy polarized, Compton interactions $\gamma + e \rightarrow \gamma + e$ at high energies for, (E), 23:36819
production of laser-induced polarized, at Cambridge Electron Accelerator for high-energy experiments, 23:21181 (CEAL-1046)
production of monochromatic high-energy, comparison of various methods for, 23:8880 (TID-24667, pp 512-14)
production of monochromatic, by electron—positron annihilation in synchrotrons, 23:30879
production of polarized, by backscattering of laser beams from electron beams, 23:28202
production of polarized, by backscattering of laser beams from electron beams, 23:28201
production of tagged, thin internal synchrotron target for, 25:1696
profiles of, use of silver phosphate glasses for measuring, 21:29661 (DESY-67/12)
scattering cross section for wave packet, (T), 21:3960
spectra from silicon target in electron synchrotron, effects of collimation on, 23:5726
theory for Compton backscattered high-energy, (T), 25:43737
use for therapy of advanced cancer in man, evaluation of technical improvements in, 24:48647
use for therapy of bronchopulmonary tumors in man, 42 MeV betatron, 23:38723
use of Compton backscattered high-energy, as nondestructive probe for relativistic beam studies, 25:43737

Photon Showers
see Cascade Showers

Photoneutrons
see photoproduction under Neutrons

PHOTONS
see also Bremsstrahlung
see also Compton Effect
see also Gamma Radiation
see also Photon Beams
see also X Radiation
absorption by 1d-2s shell nuclei, configuration splitting of giant dipole resonance in, (T), 21:7730
absorption by aluminum-27 and carbon at 100 to 250 MeV, total cross sections for, (E), 21:11976
absorption by atoms at 20 to 1000 eV, lectures on, 22:37628 (ISS-68/1)
absorption by atoms of multiple, relation between field correlation functions and transition probabilities in, (T), 24:26024
absorption by atoms of two, field correlation functions for, (T), 23:6882
absorption by atoms, cross section calculations for, 21:11420
absorption by atoms, quantum mechanical interference for minima in cross sections for, 24:23822
absorption by bone-equivalent material, 21:1738(R) (COO-1422-9)
absorption by boron-11, description using jj-coupling approximation, (T), 23:17075
absorption by deformed even—even rare-earth nuclei in giant resonance region, cross section for, (T), 23:7282 (UJV-2081-F)
absorption by deformed heavy nuclei, theory of, 21:31847
absorption by deuterium, retardation functions for orbital E1, E2, and M1 transitions in, (T), 22:35216
absorption by heavy deformed nuclei, giant quadrupole resonance in, (T), 21:2773
absorption by hydrogen-like atoms, ionization from, (T), 21:37092 (CEA-R-3192)
absorption by light nuclei above 150 MeV, comparison with π absorption by light nuclei, (T), 24:52113 (NP-18446)
absorption by light-weight nuclei, perturbation calculations of E1, 21:29873
absorption by lithium and sodium vapors at 600 to 1000 A, cross sections for, (E), 21:24909
absorption by lithium-6, dipole, (T), 21:2606
absorption by nickel-60, giant dipole resonance in, (T), 21:5517
absorption by nitrogen-15 in giant resonance region, cross section for, (T), 23:21274 (ZFK-130, pp 194-5)
absorption by nonrelativistic plasmas, free—free, (T), 25:47537
absorption by nuclei and nucleons, spin dependence of cross sections for, (T), 21:5564 (JINR-P2-2974)
absorption by nuclei in giant resonance region, calculations using collective correlation model with surface delta interaction, (T), 23:23795
absorption by nuclei, analysis for nonlocal effects using separable potential, (T), 24:38383
absorption by nuclei, description of giant resonances using collective model, (T), 21:46801
absorption by nuclei, effects of velocity-dependent nucleon—nucleon potential on integral cross sections for dipole, (T), 22:44779
absorption by nuclei, limits of validity of Siegert's theorem in, (T), 25:12649
absorption by nuclei, rho + N cross section effects on total cross sections for, (T), 25:22819
absorption by nucleons and nucleon bound states, Drell—Herne—Gerasimov sum rule for, 22:3333
absorption by oriented nuclei in polarized beams, cross section for, (T), 22:42125
absorption by oriented nuclei, multipole mixtures in resonance, (T), 23:15521
absorption by oxygen-16, giant dipole resonance in, (T), 21:7478(R) (COO-1371-36)
absorption by polarized protons, sum rule for isovector magnetic moment from, 21:902
absorption by rare-earth nuclei, probabilities for collective E2 and E3 transitions in, (T), 21:30003
absorption by silicon-28 and silicon-30, giant dipole resonance in, (T), 21:21492
absorption by silicon-28 and sulfur-32, continuum-shell-model calculation of cross sections for total, (T), 25:53678
absorption by silicon-28 in giant resonance region, collective intermediate structure in, (T), 21:31749
absorption by spherical even—even nuclei, giant quadrupole resonance coupling to surface vibrations in, (T), 24:38344
absorption by spherical nuclei, effects of surface vibrations on total cross sections for, (T), 21:23572
absorption by spherical nuclei, giant resonances in, (T), 21:1151
absorption by sulfur-32, configuration splitting of giant dipole resonance in, (T), 21:7730
absorption by superconductors, calculations on, 21:2175
absorption by three-body nuclei, E1 cross-section calculations using Gammel—Brueckner potential, (T), 23:37107
absorption by water at 15 keV to 3 MeV from point isotropic sources, calculated data on energy deposition by, 22:36274
absorption by zirconium-90, giant resonance in, (T), 21:13880
absorption coefficients for 40 elements, compilation of mass, 24:30131 (RS-8132/189)
absorption coefficients vs. energy for air, aluminum, lead, sodium iodide, and water, mass-, 24:51776
absorption cross section for beryllium-9, calculations using many-particle shell model for dipole, (T), 22:50546
absorption cross section for oxygen-16 in giant resonance region, fine structure in, (T), 21:25455
absorption in e + p interactions at 100 eV, laser-induced, (T), 25:33634
absorption in intergalactic space, vector dominance model for $\gamma + \gamma \rightarrow$ rho^0 + rho^0 interactions at high energies for, 22:34918
absorption in small volumes of target tissues from interstitial radioisotope sources, computer calculations of, 25:26752
absorption in stellar spectral lines, effects on opacity, (T), 24:42348
absorption of 0.01- to 10-MeV, in thallium-activated sodium iodide crystals, 21:14434 (NP-16500)
absorption of high-energy, near NP0532, (T), 24:6314
absorption of two, field correlation effects in, (T), 22:26209
absorption of virtual, in e + p scattering at high momentum transfers, cross sections for, (E), 23:7077
absorption of, free—free radiative transitions in, 22:7177
absorption of, transition matrix elements for large momentum or energy transfer in, 21:43818
absorption of, transition probability of multiple, 21:5368
absorption processes in monatomic gases, multi-, (T), 22:9005
absorptions by hydrogen atoms, cross sections for ionization from, (T), 22:17382
adaptation of eyes to, in relation to energy quanta of light and x radiation, 24:9743
amplitude and intensity correlation of, from model thermal source, (T), 21:33583
angular correlation from positron annihilation in liquid and solid ammonia, 21:46170
angular correlation measurements as test of time reversal invariance of nuclear forces, 21:25587
angular correlation of atomic cascade, calculation of signal-to-noise ratio for measuring, 22:19102
angular correlation of pairs of, from positron annihilation in liquid and solid metals and semiconductors, (E), 21:33213
angular correlation of, from positron annihilation in rare earth metal single crystals, 22:24436
angular distributions from positron annihilation in rare earth single crystals, 22:24024 (CONF-670502-, pp 487-94)
annihilation and creation operators of, characteristic states of, 21:9841
annihilation in stars, neutrino production in, (T), 23:48602
annihilation into neutrino-antineutrino pair via charged intermediate vector boson in stars, (T), 22:21793
antiparticle of, hierachy of idempotent matrices for, 24:1544
attenuation and energy absorption coefficients in materials at 10 keV to 10 MeV, tables of, 23:20177 (CEA-R-3655)
attenuation and energy-absorption coefficients, review of, 22:5400
attenuation coefficients in organic materials at 1 to 1000 keV, (T), 25:36259
attenuation in $1 < Z < 92$ nuclei at 10 keV to 100 GeV, data tabulations and mechanisms for coefficients of, 24:3492 (NSRDS-NBS-29)
attenuation in concrete, lead, and water, half-thickness vs. energy for, 24:51776
attenuation in gases at 4.5 to 145, coefficients for, (E), 25:7141
attenuation in shielding, review of, 23:16855
beam power measurements of, developments in radiometric calorimetry for, 21:16208 (UCRL-50173(Suppl.1))
beams of hard, theoretical and experimental study of, 22:15878 (NP-17237)
book: Atomic and Electron Physics: Atomic Interactions. Part A, 23:30338
book: Atomic and Molecular Radiation Physics, 25:52889
book: Classical Theory of Electric and Magnetic Fields, (T), 25:38613
book: Electronic and Ionic Impact Phenomena. Vol. 2. Electron Collisions with Molecules: Photoionization, 23:39327
book: Interactions of Photons and Leptons with Matter, 23:23531
book: Introduction to General Theory of Particle Transport, 22:22267
book: Photomeson Processes, 22:32045
book: Photoproduction of π-Mesons, 23:15045
coherence properties of a system of two, 21:3947
coincidence counting in emission from quasi—monochromatic source, 25:8518
collection yields of cylindrical liquid phosphors, 22:6593
collimation of coherent, from 2-GeV reactions with silicon, 23:5722 (DESY-68/52)
collimation of monoenergetic, with linear polarization near 100 percent, from thin crystal targets, 22:11619
Compton effect, relativistic spinor formulation of Stokes parameters in inverse, 21:7392
cosmic particle acceleration by, (T), 22:15384
counting of, reversible precounter for, 21:36444
counting probability in thermal optical field, approximate formulas for photoelectric, 21:41226
counting statistics for, 21:17935
coupling constant (rho—γ) in quark model, 22:11655
coupling constant (vector-meson—photon), consistency solution for saturation of covariant quark model sum rules for, 24:10704
coupling constant for γ—3π in Veneziano model, 24:40324
coupling constant for γ—rho, 23:49080
coupling constant for γphi from γ + p and γ + d interactions and photon reactions with nuclei at 6.3 to 9 GeV for, (E), 25:47711
coupling constant for γrho, (E), 23:16924
coupling constant for rho γ, amplitude of rho + N interactions and Glauber model for calculating, (T), 25:47790

coupling constant for rho—γ from A dependence of cross sections for rho production in photon reactions with complex nuclei at 4 to 8.8 GeV, (E), 25:45631
coupling constant for rhoγ from photoproduction on complex nuclei, 24:1541
coupling constant γrho^0, two-body correlation function for photon reactions with nuclei at high energies for, (T), 24:3706
coupling constant of ω—γ, (E/T), 25:40860
coupling constant of rho $\pi\gamma$ from π exchange contribution to $\gamma + p \to$ rho^0 + p interactions, 24:49374
coupling constant of rho—γ, 24:3562
coupling constant of rhoγ, Glauber model of multiple scattering for photon reactions with aluminum-27, beryllium-9, carbon-12, and copper-64 at 8.8 GeV for, (T), 24:40298 (INR-P-1166)
coupling constant ratio $\gamma\omega^2/\gamma$rho^2 from structure of e^+e^- mass spectrum in γ reactions with beryllium at 5.1 GeV, (E), 25:3288
coupling constants for epsilon$\gamma\gamma$ and f$\gamma\gamma$, finite-energy sum rules for $\gamma + \pi^0 \to \gamma + \pi^0$ interactions for, (T), 25:43582 (DESY-71/20)
coupling constants for γ—p, from total cross sections of γ + p interactions at 3.7 to 17.9 GeV, (E), 24:45409
coupling constants for γ—rho from photon reactions with nuclei at 9.15 GeV, (E), 24:15445
coupling constants for γNN^*, test of N(1400) dominance of nucleonic form factors from, 22:15733
coupling constants for ω—γ, vector meson dominance model for, (E/T), 23:8767 (LAL-1204)
coupling constants for phi—γ, vector meson dominance model for, (E/T), 23:8767 (LAL-1204)
coupling constants for rho^0—γ, vector meson dominance model for, (E/T), 23:8767 (LAL-1204)
coupling constants in $A_1\pi\gamma$ and A_1rhoπ systems, vector dominance for correlation between, 24:26431
coupling constants of rhoγ, predictions for, (T), 23:46709
coupling $\gamma\tau$ anti τ in weak interactions for energy loss effects on time scales for stellar evolution, (T), 25:22771
coupling of A_1^0 $\gamma\gamma$ vertex, hyperfine splitting of hydrogen atom for strength of, 24:21949 (COO-264-540)
coupling of fields of, superposition theory for, 23:46793
coupling of $\gamma N\Delta(1236)$, dipole, 23:7120
coupling of $\gamma NN(1525)$ from saturation of current algebra at infinite momentum, 23:32659
coupling of $N\gamma N^*$, sum rules for electromagnetic, 21:27334
coupling of Roper resonance to γ—N system, sum rules for, 24:10724
coupling $\omega\gamma$ in γ reactions with nuclei at 5.7 GeV, Cherenkov counter study of, (E), 25:1362 (DESY-70/33)
coupling to neutrinos in weak interaction theory, astrophysical exclusion of, 25:1473
coupling to neutrinos, theory of weak, 22:50355
coupling to rho, ω, and phi, form factor for, 22:3316
coupling to rho, Veneziano-type representations for, (T), 25:59352
coupling to vector mesons from contributions to vector and pseudoscalar meson decays, (T), 25:40917 (LNF-71/8)
coupling to vector mesons, Veneziano-type representations for, (T), 25:59352
coupling with N and $\Delta(1236)$, current algebra calculation of, 22:3323
decay into particle—antiparticle pair, measurement of gravitational interaction from energy—momentum conservation in spontaneous, 24:30587
deflection in gravitational field, Snell law for, (T), 25:45814
deflection in Kerr gravitational field, geodesics for, (T), 24:26501
density during original galaxy formation, (T), 23:14587
detection and measurement above 100 MeV, design and performance of total-absorption Cherenkov spectrometers for, 23:31546
detection and measurement in atmosphere, low-energy cosmic-ray, 21:13407
detection and measurement of, use of photomultiplier tubes for, 22:8418
detection at 100 to 150 MeV, energy resolution of spark chamber spectrometer for, 24:11836
detection at 50 and 100 MeV, efficiency of lead-electrode spark chamber for, 24:11837
detection at 50 to 1500 MeV, efficiency of scintillation detector telescope for, 24:50547 (LNF-70/13)
detection at 8 to 14 and 44 to 60 A, design of Geiger-Mueller detector for, 23:16099
detection below 100 keV, photopeak efficiency of well-type thallium-activated sodium iodide detector for, 24:11796
detection from $\pi^- + p \to \gamma + n$ interactions, calibration of scintillation detectors for, 23:35468 (UCLA-34-P-106-33(Rev.))
detection in molecular beams, methods for, 22:24027 (UCRL-18032)
detection of $<$1 GeV/c, bubble-chamber technique for, 25:34964 (CONF-700623-(Vol.1), pp 555-66)
detection of 0.02- to 4.0-MeV, efficiency calibration of thallium-activated sodium iodide crystals for, 21:3272
detection of 0.5- to 1300-A, design of scintillation system for, 22:28123
detection of 1-GeV, sensitivity of thick-walled graphite ionization chamber for, 23:11796
detection of 15-GeV cosmic, spark—emulsion chamber for, 22:10559
detection of 8- to 1250-keV, response of ionization, G—M, and thermoluminescent detectors for, 23:17750 (LA-4052)
detection of cosmic, spark chamber for, 21:6242
detection of high-energy, design of shower hodoscope/spectrometer for, 24:48316 (CALT-68-255)
detection of neutron-induced, feasibility of locating land mines by, 25:15841 (ORNL-TM-3305)
detection of pulsed, response of liquid ionization chambers for, 25:37581 (NP-18875)
detection of, design of detector for, 21:1639(P)
detection of, development of total absorption shower cascade detectors for, 23:33399
detection of, Geiger—Mueller counter for, 23:19950(P)
detection of, quantum theory of field attenuation in, 22:26704
detection of, secondary emission target with scintillation detector for, 23:19986(P)
detection of, use of europium-doped calcium fluorides for, 21:39192(R) (UCRL-50007-67-1)
diffusion in gases, nonstationary, (T), 24:23571
diffusion in gases, number of scatterings in, (T), 23:3269
diffusion in semi-infinite medium, number of scatterings during, (T), 23:3189
distribution in air showers, H-quantum and two-fireball models for lateral, (T), 25:30793
distribution in cascade showers, (T), 22:21919
distribution in extensive air showers at 5200 m, (E), 25:24930
distribution of $>$10-keV, in space, 21:20790 (AD-641509)
distribution uniformly in human organs, estimates in phantoms of absorbed fractions from monoenergetic, 24:14497
distributions from $e^+ + e^- \to \tau$ + anti $\tau + \gamma$ interactions, angular and energy, 21:17082
distributions from meson (π^0) production in meson (π^-) reactions with xenon at 5 and 9 GeV/c, angular and energy, (E), 21:17051
distributions in atmospheric electron—photon cascade showers, spatial and angular, (T), 24:21959
distributions in electron—photon cascade showers, moments method for calculating spatial and angular, (T), 24:21958
dose distribution in human phantoms, computer programs for calculating, 25:32414 (KFKI-71-12)
dose distribution in phantoms, edge effects on, 24:36756
dose rate around high-energy proton accelerators, Monte Carlo calculation of, 23:23580 (ORNL-TM-2498)
dose rate calculations for 1250 keV, in graphite and water phantoms, 25:16145
dose rate from 0.01- to 20-GeV, normally incident to water slab, calculation of, 22:19352
dose rate from iron in 200-MeV proton accelerator, residual, (T), 24:6779
dose rate from neutron activation of concretes in 3-GeV proton accelerator, residual, (T), 24:6780
dose rate in air at 1 m for 1-mC point source, 24:51776
dose rate in irradiation space of 42 MeV betatron, measurement of undesirable secondary, 23:50482(T) (SLAC-Trans-100)
dose rate in water, calculation of high-energy, 24:21170
dose rate measurements around 18 MeV betatron for determining burden to patients during therapy, 24:34336
dose rate measurements of, review of concepts for, 22:43118
dose rate of residual, near high-energy proton accelerators, calculation of, 23:37058
dose to gonads during therapy, studies on Alderson phantom with lithium fluoride thermoluminescent detectors for determining, 24:44491
dose to human organs, Monte Carlo calculation of absorbed, 24:50876 (CONF-691212-, pp 33-49)
dosimetry above 10 keV, tissue-equivalent pocket proportional detector for, 25:15948 (CEA-N-1393)
dosimetry at 1 MeV, international comparison of ionization detectors for, 24:46519
dosimetry at 76 to 1250 keV, energy and angular effects on response of dosimeters for, 24:11846 (AECL-2714)
dosimetry for clinical use in relation to effects on man, 24:2814
dosimetry in human phantoms at different exposure angles and distances, 22:45566
dosimetry in tissue equivalent media, method for, 23:38583
dosimetry in tissue-equivalent phantoms, tabulations of calculated absorbed fractions for, 22:36275
dosimetry in tissues in relation to LET and exposure, 22:38307
dosimetry in water-equivalent phantom, 22:36285
dosimetry of high energy, ferrous sulfate, 22:16974(R) (ORO-2832-56)
dosimetry of high-energy, comparison of ionization, ferrous sulfate, and thermoluminescent dosimeters for, 25:21453
dosimetry of high-energy, reproducibility of TLD-100 dosimeters for, 24:27424 (CONF-690540-, pp 471-81)
dosimetry of Siemens 42 MeV betatron, calculation of, 23:20234
dosimetry of, air- and tissue-equivalence of various materials for ionization detector for, 24:50634 (CEA-R-4049)
dosimetry of, design and performance of tissue-equivalent ionization chamber for, 22:14863
dosimetry of, energy response of silver-activated phosphate glass photoluminescent dosimeters for, 21:39192(R) (UCRL-50007-67-1)
dosimetry of, mathematical relations for, 23:31753(T) (ORNL-tr-1555)
dosimetry of, multielement lithium fluoride thermoluminescent dosimeter for personnel, 25:46642 (BNWL-SA-3955)
dosimetry using film, method for obtaining isodose curves from, 25:24170
effectiveness for therapy of recurrent human cervical carcinomas, evaluation of, 25:32511
effects in combination with pulsed electrons on chemiluminescence of aqueous solutions of fluorescein dyes, 25:29138
effects of longitudinal virtual, in e + p inelastic scattering, (E), 23:14941
effects of, on nitrogen compounds to separate nitrogen-15, 21:12517(P)
effects on absorption cross sections and yields in deuterated and normal butane and ethylene, isotope effects on, 23:7532
effects on acceleration of electron exchange between tetravalent and hexavalent uranium, 24:48091
effects on alignment of rotating interstellar grains, (T), 25:40288
effects on aqueous solutions of carbonyl sulfides, yields of recoil sulfur-35 from, 25:8312
effects on argon sorption by nickel surfaces, 21:18294(R) (AD-642408)
effects on back scattering, differential absorption, and lateral diffusion, 22:49442
effects on biological and chemical processes, 23:13772
effects on biological objects, comparison of electron to, 22:38447
effects on bromates in boric acid glass, spectral studies on, 25:169
effects on C-reactive protein content of malignant and normal tissues of man, 22:45407
effects on crystals, luminescence from, 21:25212
effects on deuterated and normal butane and propane, mechanism and yields in, 22:35869
effects on electrical breakdown of polycrystalline alpha-phase aluminum oxide at 300 to 1300°K, 21:36956
effects on eosin in alkaline methanolic solutions, spectral studies on debromination of semireduced product of, 24:36331
effects on epitheliomas of tonsillar tissues, therapeutic, 22:51702
effects on Escherichia coli in relation to effects of aqueous electric arc radiation, 23:50947
effects on Escherichia coli, effects of depth on RBE for, 23:6472
effects on ethylene at 20 to 77°K and 8.4 to 21.2 eV, 25:41875
effects on formation of defects and sputtering in alkali halides, 25:30651
effects on heating of plane bodies, tables for transient temperatures from, 25:56267
effects on hydrocarbon glasses at 77°K, ESR studies on, 24:16589
effects on isotope enrichment in gases, 22:10325(T) (UCRL-Trans-10178)
effects on luminescence of alkali metal iodides, 22:29560
effects on lung carcinoma, effects of lung tissue on exit dose following therapeutic 33 MeV, 22:21542
effects on mitosis in regenerating liver and tumor tissue of rats, 22:40851
effects on polymerization of alkene oxides, 24:27165(P)
effects on π production from e + p interactions, (E), 22:13635 (LAL-1185)
effects on radiolytic alkylamino radicals, EPR studies on, 24:36307
effects on seeds of Vicia faba, comparison of, to x ray, 22:40960
effects on singlet and triplet π-electronic states of benzene and naphthalene, 22:16603
effects on sodium chlorides, electron excitations and F-center creation by 4- to 21-eV, 21:21059
effects on stability of vinylaromatic polymers and copolymers with polystyrene, 23:28907
effects on superconductors, theory, 22:48060
effects on survival of bacteria and yeasts, RBE for 20-MeV electron, γ, and 20-MV, 22:38503
effects on survival of mice, RBE for 20-MeV electron and 21-MeV, 22:38277
effects on tissues, discussion of, 22:25911
effects on tongue base tumors in man, comparison of high-energy electron to therapeutic, 22:51735
effects on tumors, performance of 42 MeV betatron as source for therapeutic, 22:23575
effects on zinc sulfides, luminescence, 21:21062
efficiency for activation analysis, 22:14469
emission and transport from proton-activated copper and iron, 24:44203
emission by atoms, theory of sequential decay for, 21:41793
emission by excited xenon atoms, time correlation of, (T) , 23:8479
emission by high-speed particles, determination of absolute speed of light from, (E), 25:50106
emission by man, effects of cesium-137 and potassium-40 content on, 22:488 (AEEW-M-715)
emission by many atoms, theory of coherent, 23:6883
emission by relativistic particles in Coulomb field, quasiclassical theory for, 23:5564
emission by stars, statistical distribution of, (T), 21:43726
emission by surface plasmons in electron-bombarded metals, theory, 24:39809 (ORNL-4446, pp 163-76)
emission during electron-electron scattering, cross section for, (T), 21:13355(T) (SLAC-Trans-52)
emission from 1.3- to 4.0-GeV electrons passing through crystal, energy dependence of, (E), 25:36382
emission from aluminum bombarded by non-normally incident electrons, 21:42193
emission from antenna, quantum electrodynamics with external current and potential for, 22:32200
emission from arbitrarily polarized electron pair annihilation, (T), 21:27328
emission from electron and photon relativistic interactions with magnetic fields, 21:615
emission from electron interactions in intense electromagnetic fields, 21:33642
emission from electrons moving in field of two electromagnetic waves, (T), 25:25269
emission from excited bound electrons, natural line width in quantum field theory for, 21:27437
emission from heterogeneous medium into air, method for dosimetry of, 21:20199
emission from highly condensed stars, delay of, (T), 23:51183

emission from metastable state of singly ionized helium, spectrum of, (E), 23:48587
emission from Moon due to solar-flare bombardment, (E) , 24:32581
emission from NE224 scintillators, intensity of, 21:3243 (EGG-1183-2122)
emission from neutral fermion motion in electric and magnetic fields, 21:42320
emission from proton-bombarded tungsten, (E), 21:2677
emission from reflected electrons from half-space magnetic fields, (T), 25:11679
emission from rotating stars, (T), 24:21464
emission from rubidium-85 ions following beta decay of krypton-85, measurement of, 24:11885
emission from solar mass stars, (T), 25:6959
emission from system of many excited atoms, 23:15212
emission in atomic cascades, polarization correlation in, (E/T), 21:35014 (UCRL-17587)
emission in decay of metastable state of singly ionized lithium, (T), 21:31251
emission in $e^+ + e^-$ interactions in colliding beams, formulas for soft, 22:29659
emission in $e^+ + e^-$ interactions in colliding beams, formulas for soft, 23:5556(T) (JPRS-45594)
emission in $e^+(e^-) + e^- \rightarrow e^+(e^-) + e^- + 2\gamma$ interactions, angular distribution, energy spectra, and cross section for, 21:33651
emission in elementary particle interactions, Low—Burnett—Kroll theorem for soft-, 23:18845
emission in $\mu^+ + e \rightarrow \tau + \text{anti } \tau + \gamma$ interactions, angular and energy distributions for, (T), 22:26618
emission in $N + N \rightarrow N + N + \gamma$ interactions, S-matrix approach to, (T), 24:40422
emission in nuclear and elementary particle scattering and decay processes, electromagnetic properties of short-lived states from, 22:44366
emission in particle interactions, approximations for calculating radiative corrections for, 22:34910
emission in weak interactions, W boson theory for divergences of amplitudes of, (T), 25:30805 (NP-18777)
emission in $Y \rightarrow N + \pi + \gamma$ decay, spectra for, (T), 23:39647
emission of evanescent, by charged particles in vacuum, (T), 25:56392
emission of high-energy, from quasars, (T), 25:55908
emission of high-energy, Poisson distribution for, 23:16915
emission of soft, from particle interactions, Low approximation for components of polarization tensor for, 22:41770 (JINR-P2-3851)
emission of soft, low-frequency limit of bremsstrahlung amplitude for, 22:50453
emission of virtual, μ pair and hadron production in $p + N$ and $\pi + N$ interactions for helicity of, (E/T), 24:26448
emission of, during recombination of hydrogen in expanding Universe, (T), 22:43751
emission of, transition probability of multiple, 21:5368
emission rates of auroral nitrogen first positive group, 21:20859
energy absorption coefficients in air and water at 10 keV to 100 MeV, 24:3492 (NSRDS-NBS-29)
energy absorption coefficients in nuclei at 10 keV to 100 MeV, data tabulations for, 24:3492 (NSRDS-NBS-29)
energy flux of, comparative monitor for Wilson cloud chamber for measuring, 23:11863
energy in quantum electrodynamics, overlapping divergences in self-, 21:13733
energy loss calculations for 0.1- to 20-GeV, in semi-infinite slab of water, 22:2507 (ORNL-TM-2026)
energy measurements in xenon bubble chamber at 40 to 4000 MeV, calibration curves for, 21:32370 (JINR-P1-3349)
energy measurements in xenon bubble chambers, precision of, 22:38084
energy of hypothetical 10^{15}-eV primary cosmic, 21:20795
energy spectra of secondary cosmic, at 0.2 to 12 GeV, 21:27022
energy spectra of, emitted from photon irradiation of a molecular system, (T), 24:23731
energy spectra of, use of spark chambers for measuring, 23:45552
equivalence principle for, experimental test of, 24:3756
exchange contribution of two, to $e^- + N \rightarrow e^- + N$ and $e^+ + N \rightarrow e^+ + N$ interactions at high energies and low momentum transfers, Compton scattering cross sections for, (T), 25:59372
exchange contribution to cross sections of $p + p$ and $\pi + p$ inelastic interactions at high energies, one-photon, (T), 25:22825
exchange contribution to $e + p$ interactions, 24:3568
exchange contribution to sixth-order anomalous magnetic moment of mesons (μ) and electrons, 24:37697
exchange contribution to sixth-order anomalous meson (μ) magnetic moment, three-body, 23:42628
exchange effects in beta decay, 23:32684
exchange in $e + p$ interactions, two-body, (T), 23:42601
exchange in extended elementary particle interactions, Lorentz contraction and asynchronous formulation for acceleration from push or pull in, 24:22003
exchange in interactions of two unequal-mass scalar quarks, solutions and Lorentz symmetry of Bethe—Salpeter equation for, (T), 24:49431 (NP-18418)
exchange of single, for hadron production in $e^+ + e^-$ interactions in colliding beams, (E/T), 25:52990 (DESY-71/28)
exchange potential of γ—π, charge-symmetry violating effects in $\Lambda + N$ interactions, 23:27812
exchange process in $N + N$ interactions, charge-dependent effects of photon—meson (π), (T), 23:5639
existence of hypothetical leptonic and muonic, (T), 23:51889
field commutator in quantum theory of intensity correlations, (T), 22:5641
field of, contribution of vacuum polarization to interpolating, 21:11806
field of, renormalization in quantum electrodynamics for, 23:46799
field theory for neutral vector meson and, 22:29753
field theory for, Goldstone theorem in unified, 24:43032
field theory for, null planes in formulation of quantum electrodynamics in, (T), 25:53312
fluence in mammalian phantoms in relation to γ-ray dosimetry, effects of angular distribution and energy on scattered, 23:38568 (AD-686511)
fluence measurements of, method for, 23:43514 (CEA-R-3739)
flux density from finite plane sources, use of matrix point kernel for, 25:40742
flux estimation by Monte Carlo method, cylindrically symmetric problems in, 21:37538
flux of cosmic, in galaxy, (T), 22:41389
form factor for γNN^* from analysis of π^+ electroproduction, transition, 22:26609
form factor for γNN^*, $e + p \rightarrow e + p + \pi^+$ interactions for, (E), 25:22658 (DESY-70/65)
form factor of $\gamma N\Delta$ vertex from $e + p$ interactions at 1.5 to 6 GeV, (E), 23:5513
form factors for $\gamma\ p\ \Delta^+(1236)$ vertex, (E), 24:30432
form factors of relativistic two-body bound systems of scalar and vector, Lorentz contraction effects in electromagnetic, 24:24266
frequency shift in general relativity, high-order, 21:5343
functional integrals for fields of, generalized Mathews—Salam equations from Feynman, 24:10832
gravitational field of, (T), 25:12283
graviton emission by, in electromagnetic field, 22:53032
graviton emission by, in gravitational field, 21:21126
Green function in general external stationary homogeneous electromagnetic field, (T), 25:33628
Green functions for large momenta for, asymptotics of renormalized, 24:3587
Green functions for, quantum electrodynamics without bare constants and divergences for, 22:20187
infrared divergences of electron—photon system in strong interactions, (T), 25:38685
intensity at sea level of cosmic, solar diurnal, (E), 22:19804
intensity fluctuations in cascade showers, (T), 22:21916
intensity half value layer calculations for aluminum, copper, and lead, determination of effective energy from, 22:30873
intensity measurement of field-emission, in cavity resonators, 22:9724(T) (ANL-Trans-535)
intensity variations at sea level of cosmic, pressure effects on, (E), 22:19803
interactions above 1 TeV, review of, (E), 25:5274
interactions at high energies, conference on, 24:24276
interactions at high energies, Feynman diagrams for physical description of diffraction Delbrueck, 23:46658
interactions at high energies, particle unified theory from, (E), 24:5233
interactions at high energies, review on meson production in, 25:3315
interactions at high energies, spin dependence of amplitudes for, 21:42473
interactions at high energies, theory of diffraction, 24:30481
interactions at very high energies, scaling laws for particle production in two-body, (T), 25:5319 (CONF-700314-, Paper 8)
interactions $e + \gamma$ in $e^+ + e^-$ and $e + e$ interactions in colliding beams, feasibility of experiment for deep inelastic, (T), 25:50097
interactions $e + \gamma$ in inelastic $e + e$ interactions, hadron production in deep inelastic, (T), 25:59333 (JINR-E2-6036)
interactions $\gamma + d \rightarrow \gamma + d$ up to 430 MeV at 90 to 140°, dispersion theory for, (T), 25:45695
interactions $\gamma + N$, chiral-invariant Lagrangian for differential cross sections for, 24:35644
interactions $\gamma + {}^{11}B \rightarrow {}^{11}C + \pi^-$, use of gauge invariance and PCAC theory for cross-section sum rules for, 22:37102
interactions $\gamma + {}^{16}O \rightarrow {}^{16}N + \pi^+$ at 150 to 300 MeV, form factors in covariant spin formalism for, 24:15510
interactions $\gamma + {}^{16}O \rightarrow {}^{16}N + \pi^-$, use of gauge invariance and PCAC theory for cross section for, 22:37102
interactions $\gamma + {}^{16}O \rightarrow \text{rho}^0 + {}^{16}O$, determination of rho + N scattering amplitude from, (T), 22:37147 (NP-17497)
interactions $\gamma + {}^{16}O \rightarrow \text{rho}^0 + {}^{16}O$, rho—N scattering amplitude from, (T), 22:24599
interactions $\gamma + {}^3H \rightarrow \pi^0 + {}^3H$ at 200 to 500 MeV, impulse approximation calculation of cross section for, 23:23410
interactions $\gamma + {}^3H \rightarrow \pi^- + {}^3He$ at 200 to 500 MeV, impulse approximation calculation of cross section for, 23:23410
interactions $\gamma + {}^3He \rightarrow {}^3H + \pi^+$ at 170 to 300 MeV, from factors in covariant spin formalism for, 24:15510
interactions $\gamma + {}^3He \rightarrow p + d$ at 180 to 550 MeV, spark chamber and scintillation counter study of differential cross section for, (E), 22:32046
interactions $\gamma + {}^3He \rightarrow \pi^0 + {}^3He$ at 200 to 500 MeV, impulse approximation calculation of cross section for, 23:23410
interactions $\gamma + {}^3He \rightarrow \pi^+ + {}^3H$ at 200 to 500 MeV, impulse approximation calculation of cross section for, 23:23410
interactions $\gamma + {}^3He \rightarrow \pi^+ + {}^3H$ in Glauber model, coherent π^+ production in, 25:1462
interactions $\gamma + {}^3He \rightarrow \pi^+ + {}^3H$, use of current algebra and PCAC hypothesis in soft-pion approximation for, 22:24605
interactions $\gamma + {}^3He \rightarrow \pi^+ + 2n + p$, impulse approximation for π^+ angular distributions and total cross sections in, (T), 25:14518
interactions $\gamma + {}^3He \rightarrow \pi^+ + n + d$, impulse approximation for π^+ angular distributions, total cross sections, and final-state interaction effects in, (T), 25:14518
interactions $\gamma + {}^3He$, Regge pole and quark models for coherent production of neutral vector mesons in, 24:42915
interactions $\gamma + {}^4He \rightarrow {}^3He + N^{*0}$ and $\gamma + {}^4He \rightarrow {}^3H + N^{*+}$, isotopic relations between cross sections for, 22:50327
interactions $\gamma + {}^4He \rightarrow {}^4He + \pi^0$, verification of vector dominance in, (T), 25:12140
interactions $\gamma + {}^4He \rightarrow p + t$ at 200 to 460 MeV, spark chamber and scintillation counter study of resonant behavior of cross sections near N(1470) in, (E), 23:49034
interactions $\gamma + {}^4He \rightarrow \text{rho}^0 + {}^4He$, determination of rho + N scattering amplitude from, (T), 22:37147 (NP-17497)
interactions $\gamma + {}^4He \rightarrow \text{rho}^0 + {}^4He$, rho—N scattering amplitude from, (T), 22:24599
interactions $\gamma + 3\pi$ in $\pi + p \rightarrow \pi^- + p + \gamma$ interactions, final-state, (T), 22:24651
interactions $\gamma + A \rightarrow A + \pi^0$ near threshold, mass number dependence of cross section for, 21:40182
interactions $\gamma + \text{anti } N \rightarrow \text{anti } N + \pi$ at high energies, translation of symmetry properties of helicity amplitudes for polarization in, (E/T), 23:46656
interactions $\gamma + \alpha \rightarrow {}^3H + n + \pi^+$, at 300 to 400 MeV, impulse approximation for, 21:31558
interactions $\gamma + \alpha$ at high energies, peripheral mechanisms for meson (π^0) and (rho⁰) production from, 21:9733
interactions $\gamma + C \rightarrow C + e^- + e^+$ test of quantum electrodynamics at small distances using yield of electron—positron pairs from, (E), 23:3806
interactions $\gamma + C \rightarrow C + e^- + e^+$, meson (phi) production and branching ratio for electron—positron decay in, (E), 23:3653
interactions $\gamma + C \rightarrow e^+ + e^- + C$, test of quantum electrodynamics from wide-angle pair production in, (E), 22:50283
interactions $\gamma + d \rightarrow d + \pi^0$ at high energies, impulse approximation for relativistic calculation of amplitude of, (T), 25:25372
interactions $\gamma + d \rightarrow d + \pi^+(\pi^0) + \pi^-(\pi^0)$, isotopic amplitudes and phase shifts for, 24:1554 (JINR-P2-4621)
interactions $\gamma + d \rightarrow d + \text{rho}^0$, equality of t dependence of differential cross sections for $\pi + d \rightarrow \pi + d$ interactions with t dependence of differential cross sections for, (T), 25:1442 (ITF-70-40)
interactions $\gamma + d \rightarrow d + \text{rho}^0$, vector dominance diffractive model for forward, 24:8603
interactions $\gamma + d \rightarrow d(p + n) + \pi^+ + \pi^-$ at 1 to 5 GeV in bubble chamber, differential and total cross sections for rho⁰ production in, (E), 25:3246
interactions $\gamma + d \rightarrow \text{eta} + d$ at 850 MeV, Cherenkov and scintillation counter study of differential cross sections for, (E), 23:25497
interactions $\gamma + d \rightarrow \text{eta} + d$, amplitudes with anomalous thresholds for ω exchange and S_{11} contributions to, (T), 25:59514
interactions $\gamma + d \rightarrow \text{eta}^0 + d$ at 629 to 779 MeV, differential cross sections for coherent eta⁰ production in, (E), 23:34521
interactions $\gamma + d \rightarrow \gamma + d$ at 100 to 350 MeV, nucleon motion in deuteron from Compton, (T), 23:32675
interactions $\gamma + d \rightarrow \gamma + d$, analytical properties of amplitude of, (T), 25:50096
interactions $\gamma + d \rightarrow \gamma + d$, double dispersion relations for amplitudes of Compton, (E), 25:53094
interactions $\gamma + d \rightarrow \gamma + d$, impulse approximation for cross sections of Compton, 23:34554
interactions $\gamma + d \rightarrow \gamma + d$, sum rules for, 22:5543
interactions $\gamma + d \rightarrow K + \text{hyperons} + N$, hyperon—nucleon final state interactions from, 21:25322
interactions $\gamma + d \rightarrow K^+ + \Lambda + n$, final-state $\Lambda + n$ interactions in, (T), 21:19019
interactions $\gamma + d \rightarrow N + \Delta(1236)$, test for isotensor couplings, 24:49395
interactions $\gamma + d \rightarrow N + N + \pi$ in impulse approximation, kinematics and cross sections for, (T), 23:32647 (NP-17916)
interactions $\gamma + d \rightarrow N + N + \pi$, three-body corrections in final state for, (T), 24:3578
interactions $\gamma + d \rightarrow n + n + \pi^+$, relativistic impulse approximation for differential cross section of, 23:34562
interactions $\gamma + d \rightarrow n + N^* +$ and $\gamma + d \rightarrow p + N^{*0}$, isotopic relations between cross sections for, 22:50327
interactions $\gamma + d \rightarrow N + N^*$ at 200 to 700 MeV, (T), 21:21176
interactions $\gamma + d \rightarrow n + p$ at 140 to 400 MeV, differential cross sections for, (E), 22:24520
interactions $\gamma + d \rightarrow n + p$ at 222 to 342 MeV, differential cross sections for, (E), 23:21036
interactions $\gamma + d \rightarrow n + p$ at 240 to 320 MeV, cross sections and angular distributions for, (E), 23:14950
interactions $\gamma + d \rightarrow n + p$ at energies greater than 100 MeV, angular distribution for, (T), 23:25779
interactions $\gamma + d \rightarrow n + p$ at high energies, covariant theory for, 22:39333
interactions $\gamma + d \rightarrow n + p$ below 450 MeV and near $\Delta(1236)$, angular distributions and differential cross sections for, (E), 24:10656
interactions $\gamma + d \rightarrow n + p$ interactions, study of angular distributions and total cross sections for $n + p \rightarrow d + \gamma$ interactions at 160 to 640 MeV/c for time reversal invariance in, (E), 24:1506 (PPAR-20)
interactions $\gamma + d \rightarrow n + p$, study of angular distributions from $n + p \rightarrow d + n$ interactions at 300 to 700 MeV for time reversal invariance in, (E), 24:1507 (UCRL-19350)

interactions $\gamma + d \to p + n + \pi^+ + \pi^-$ at 1 to 5 GeV in deuterium bubble chamber, differential and total cross sections for rho^0 production in, (E), 24:40225 (DESY-70/16)
interactions $\gamma + d \to p + n +$ rho^0, vector dominance diffractive model for forward, 24:8603
interactions $\gamma + d \to p + n$ at 10 to 160 MeV, pion-exchange contributions to, (T), 21:46506
interactions $\gamma + d \to p + n$ at 100 to 420 MeV, differential cross section for, (E), 21:31517
interactions $\gamma + d \to p + n$ at 170 to 450 MeV, proton polarization from, (E), 22:15661
interactions $\gamma + d \to p + n$ at low energies, threshold theorems for, 23:15042
interactions $\gamma + d \to p + n$, consistent treatment in one-boson-exchange model for $N + N$ exchange currents for, 23:51950 (DESY-69/28)
interactions $\gamma + d \to p + n$, dispersion sum rule in pole approximation for, 21:23316 (JINR-E2-3205)
interactions $\gamma + d \to p + n$, final-state interactions for $p + n \to p + n$ interactions from, (T), 24:52118
interactions $\gamma + d \to p + n$, multipole amplitudes for, 23:23430
interactions $\gamma + d \to p + n$, parity-violating internucleon potential for, (T), 25:17545
interactions $\gamma + d \to p + n(p) + \pi^0(\pi^-)$, relativistic impulse approximation for differential cross section of, 23:34562
interactions $\gamma + d \to p + p + \pi^- + \pi^0$ at 1 to 5 GeV in bubble chamber, cross sections for rho production in, (E), 25:1381
interactions $\gamma + d \to p + p + \pi^+ + \pi^- + \pi^-$ at 1.1 to 3.5 GeV, total and resonance production cross sections for, (E), 25:14521
interactions $\gamma + d \to p(n) + p(n) + \pi^- (\pi^+) + \pi^0$, isotopic ratio for particles referring to one isotopic multiplet for, 23:34566 (JINR-P2-4382)
interactions $\gamma + d \to p(n) + p(n) + \pi^-(\pi^+)$ at 3.4 GeV, impulse approximation using $p + p$ wave functions for Coulomb-interaction effects in, 24:20174 (SU-1206-214)
interactions $\gamma + d \to \pi + N + N^*$ (1238), sum rule for N_3^* (1238) production rates in, 21:900
interactions $\gamma + d \to \pi + p + n$ at 911 to 1390 MeV, Cherenkov counter study of cross section for, (E), 22:15662
interactions $\gamma + d \to \pi^0 + d$ at 300 to 850 MeV in first and second resonance region, (T), 21:46520
interactions $\gamma + d \to \pi^0 + d$ at 650 to 820 MeV, differential cross sections for, (E), 21:42613(R) (NP-16992)
interactions $\gamma + d \to \pi^0 + d$ at 650 to 820 MeV, scintillation counter study of differential cross sections for, (E), 22:24537
interactions $\gamma + d \to \pi^0 + d$ in Glauber model, coherent π^0 production in, 25:1462
interactions $\gamma + d \to \pi^+ + 2n$ at 2.6 to 6 GeV in deuterium bubble chamber, (E), 22:34827 (DESY-68/22)
interactions $\gamma + d \to \pi^+ + 2n$ at 3.4 and 5 GeV, cross section for π^+ production in, (E), 22:39237
interactions $\gamma + d \to \pi^- + 2p$ and $\gamma + d \to \pi^+ + 2n$ at high energies and low momentum transfer, π^- and π^+ production in, (T), 23:5559
interactions $\gamma + d \to \pi^- + 2p$ at 2.6 to 6 GeV in deuterium bubble chamber, (E), 22:34827 (DESY-68/22)
interactions $\gamma + d \to \pi^- + 2p$ at 3.4 and 5 GeV, cross sections for π^- production in, (E), 22:39237
interactions $\gamma + d \to \pi^+ + n + n$ at 3.0 to 3.7 GeV, magnetic spectrometer and scintillation counter study of resonance production in, 21:31516
interactions $\gamma + d \to \pi^+ + n + n$ at 600 to 1700 MeV, cross section for forward π^+ production in, (E), 24:21911
interactions $\gamma + d \to \pi^- + p + p$ at 1.1 to 5.3 GeV, cross sections for, 25:47720
interactions $\gamma + d \to \pi^- + p + p$ at 3.0 GeV, asymmetries and differential cross sections for polarized, (E), 24:26363
interactions $\gamma + d \to \pi^- + p + p$ at 3.0 to 3.7 GeV, magnetic spectrometer and scintillation counter study of resonance production in, 21:31516
interactions $\gamma + d \to \pi^- + p + p$ at 500 to 800 MeV, differential cross section for π^- production in, (E), 23:14943
interactions $\gamma + d \to \pi^- + p + p$ at 600 to 1700 MeV, cross section for forward π^- production in, (E), 24:21911
interactions $\gamma + d \to \pi^- + p + p$, impulse approximation calculation of recoil proton polarization in, (T), 25:19940
interactions $\gamma + d \to \pi^+ + \pi^-$ at 1 to 5 GeV in deuterium bubble chamber, differential and total cross sections for rho^0 production in, (E), 24:40225 (DESY-70/16)
interactions $\gamma + d \to \pi^+ (\pi^-) + 2n(2p)$ at high energies and low momentum transfers, impulse approximation with spin—isospin deuteron structure for analysis of, 22:44352 (DESY-68/35)
interactions $\gamma + d \to \pi^-(\pi^+) + 2p(2n)$ at 600 to 1700 MeV, π^-/π^+ cross section ratio, isoscalar and isovector amplitudes, and cross sections for $\gamma + n \to \pi^- + p$ interactions from forward, (E), 25:14523
interactions $\gamma + d \to$ rho $+ d$ interactions at 4 to 8.8 GeV, dipion mass spectra and angular distributions for, (E), 25:45631
interactions $\gamma + d \to$ rho$^0 + d$ at 1.1 to 5.3 GeV, cross sections for, (E), 25:47720
interactions $\gamma + d \to$ rho$^0 + p + n$ at 1.1 to 5.3 GeV, differential cross sections for, 25:47720
interactions $\gamma + d \to X(\gamma) + n + p$ at high energies, Pomeranchuk-pole exchange for isotopic relations for, (T), 25:7630
interactions $\gamma + d$ above 1.2 GeV, data compilation on cross sections for hadron production in, (E), 25:12066 (DESY-HERA-70-1)
interactions $\gamma + d$ above 2 GeV, review of, 24:21963
interactions $\gamma + d$ at 0 to 100 MeV, dispersion theory of elastic, 22:41778
interactions $\gamma + d$ at 1 GeV, effect of $\pi + N$ final state interaction on backward π production in, 23:39733
interactions $\gamma + d$ at 1.0 to 6.4 GeV, scintillation counter study of total cross sections for hadron production in, (E), 24:40226 (DESY-70/17)
interactions $\gamma + d$ at 1.15 to 6.25 GeV, scintillation counter study of total cross sections for hadron production from, (E), 24:51890
interactions $\gamma + d$ at 1.46 to 6.55 GeV, scintillation counter study of total cross sections for electron pair production in, (E), 24:51890
interactions $\gamma + d$ at 100 to 320 MeV, (E), 22:48447
interactions $\gamma + d$ at 140 to 430 MeV, relativistic impulse approximation analysis of elastic, (T), 25:53064
interactions $\gamma + d$ at 285 to 345 MeV, multiple scattering corrections for general impulse approximation for π^0 production from, (T), 21:44307
interactions $\gamma + d$ at 3.7 to 17.9 GeV, scintillation counter study of total cross sections for, (E), 24:45409
interactions $\gamma + d$ at 3.7 to 17.9 GeV, total cross sections for $\gamma + n$ interactions from, (E), 24:45410
interactions $\gamma + d$ at 300 MeV with production of $\Delta(1236)$ resonance, cross section for, (T), 22:50319 (DESY-68/38)
interactions $\gamma + d$ at 4 an 8 GeV, vector-dominance predictions for incoherent rho^0 production from, (E), 23:44584
interactions $\gamma + d$ at 4 to 9 GeV, cross sections for rho^0 production in, (E), 23:14951
interactions $\gamma + d$ at 4 to 9 GeV, scintillation counter and spark chamber study of rho^0 production in, 23:16925
interactions $\gamma + d$ at 6.3 to 9 GeV, spectrometer and spark chamber study of cross section ratio of phi production in $\gamma + p$ interactions to phi production in, (E), 25:47711
interactions $\gamma + d$ at 6.3 to 9 GeV, total cross sections and amplitude of phi $+ N$ interactions and γphi coupling constant from, (E), 25:47711
interactions $\gamma + d$ at 8 and 16 GeV, cross sections for forward Compton, (E), 25:38638
interactions $\gamma + d$ at 8 and 16 GeV, ratio of π^- and π^+ production in, (E), 23:8722
interactions $\gamma + d$ at 80 to 400 MeV, differential cross sections for deuteron disintegration by polarized, 21:46512
interactions $\gamma + d$ at high energies, covariant theory of deuteron disintegration in, 22:22353
interactions $\gamma + d$ at high energies, Glauber model for corrections to π^+ and π^- production in, 25:22744
interactions $\gamma + d$ at high energies, Glauber theory of multiple scattering for cross sections of π^- and π^+ production in, (T), 25:19955
interactions $\gamma + d$ at high energies, peripheral mechanisms for meson (π^0) and vector meson production from, 21:9733
interactions $\gamma + d$ at high energies, review of production of rho and phi production in, (E), 25:52997
interactions $\gamma + d$ at high energies, test of cross section sum rules for nucleon magnetic moments from forward Compton, (T), 22:22347 (JINR-E2-3715)
interactions $\gamma + d$ at threshold to 1.5 GeV, collection of data for differential cross sections, recoil polarization, and asymmetry ratio for π production in, (E), 25:38632 (CERN-HERA-70-1)
interactions $\gamma + d$ below 1.5 GeV, review of experiments and theory for single π production in, 22:32089
interactions $\gamma + d$ below 100 MeV, dispersion theory for elastic, 21:40174
interactions $\gamma + d$ below 160 MeV, pion exchange contributions to disintegration from, (T), 21:46516
interactions $\gamma + d$ below 6 GeV in bubble chamber, resonance production from, (E), 22:15660 (DESY-67/40)
interactions $\gamma + d$, Compton effect in, (E/T), 23:8926 (TID-24667, pp 555-66)
interactions $\gamma + d$, cross sections for π^+ and π^- production in virtual, 25:47714
interactions $\gamma + d$, determination of isotensor electromagnetic current from π production in, 23:5570
interactions $\gamma + d$, differential cross section and polarization for, (T), 23:1787
interactions $\gamma + d$, Drell—Herne—Gerasimov sum rules for absorption, 22:3333
interactions $\gamma + d$, effects of deuteron form factor, isoscalar part of photon, and Glauber correction on ratio for rho^0 and phi^0 production cross sections in $\gamma + p$ interactions with production cross sections of, (T), 24:51899
interactions $\gamma + d$, effects of N^* intermediate state in Compton, 21:25261
interactions $\gamma + d$, N^* effect in Compton, (T), 21:892 (AD-635483)
interactions $\gamma + d$, $N^*(1405)$ resonance in π production from, (T), 21:21166
interactions $\gamma + d$, possible test of internal symmetries of electromagnetic current from π^0 production from, (E), 22:1406
interactions $\gamma + d$, π^0 production in, (E/T), 21:7451
interactions $\gamma + d$, Regge pole and quark models for coherent production of neutral vector mesons in, 24:42915
interactions $\gamma + d$, relations among amplitudes for meson production in, (T), 21:27407
interactions $\gamma + d$, relativistic three-body problem for, (T), 24:51985
interactions $\gamma + d$, rho production in, 24:24279
interactions $\gamma + d$, sum rules for forward, 22:1402 (JINR-P4-3450)
interactions $\gamma + d$, t-channel exchange of exotic meson states in, 24:37704
interactions $\gamma + d$, test of cross-section sum rules for deuteron magnetic moments from, 22:37101
interactions $\gamma + d$, unitary symmetry for meson production in, (T), 21:4090 (N-66-21182)
interactions $\gamma + e \to e + \tau +$ anti τ, stellar energy loss rate from cross sections for, (T), 25:14650
interactions $\gamma + e \to e$, S-matrix theory for vertex in, 23:36873
interactions $\gamma + e \to \gamma + e$, nonequilibrium effects on Compton energy exchange in, (T), 24:37708
interactions $\gamma + e \to \gamma + e$ above 1 keV, Monte Carlo method of sampling Klein—Nishina probability distribution for Compton, (T), 25:36432 (LA-4663)
interactions $\gamma + e \to \gamma + e$ at 1 to 3 MeV, germanium detector study of relation between energy and momentum for, (E), 25:53001
interactions $\gamma + e \to \gamma + e$ at 412 keV, search for left-right asymmetric photon polarization in Compton, (E), 25:22741
interactions $\gamma + e \to \gamma + e$ at 662 keV, Compton polarimeter study of γ polarization in Rayleigh, (E), 22:22348
interactions $\gamma + e \to \gamma + e$ at high energies, asymptotics and amplitudes of Compton, (T), 25:33625
interactions $\gamma + e \to \gamma + e$ at high energies, infinite multiplets for discrepancy for Galilei and SO(4) symmetry for Compton, 24:5321
interactions $\gamma + e \to \gamma + e$ at high energies, scintillation counter study of polarization of scattered radiation in Compton, (E), 23:36819
interactions $\gamma + e \to \gamma + e$ in field of intense laser beam, resonance Compton, (T), 22:13703
interactions $\gamma + e \to \gamma + e$, approximate description of attractive, (T), 25:19945
interactions $\gamma + e \to \gamma + e$, approximation for inverse of Klein—Nishina probability distribution for Compton, 24:32981 (LA-4448)
interactions $\gamma + e \to \gamma + e$, effective field equations for one-electron multi-photon stationary states for Compton, (T), 25:12139
interactions $\gamma + e \to \gamma + e$, electromagnetic self-energy of particles in Compton, (T), 24:18138
interactions $\gamma + e \to \gamma + e$, general formulas for energy losses of electrons from inverse Compton effect in, 24:24304
interactions $\gamma + e \to \gamma + e$, independence of target spin for amplitude of e^+ Compton, (T), 25:38685
interactions $\gamma + e \to \gamma + e$, low-energy theorems for Compton, 25:14630
interactions $\gamma + e \to \gamma + e$, method for derivation of low-energy theorems for Compton, (T), 25:53070
interactions $\gamma + e \to \gamma + e$, nomogram for energy relations in Compton, (T), 24:15527
interactions $\gamma + e \to \gamma + e$, scale invariance in lambda phi^4 theory for Compton, (T), 25:12149
interactions $\gamma + e \to \gamma + e$, semiclassical treatment for nonlinear wavelength shift in high-intensity Compton, (T), 25:50094 (ORO-3992-62)
interactions $\gamma + e \to \gamma + e$, spin dependence in Compton, (T), 24:49401
interactions $\gamma + e \to \gamma + e$, test of CP violation in $\gamma \to 2\gamma$ transitions in Compton, (T), 22:24699
interactions $\gamma + e \to \gamma + e$, users manual for computer code calculating densities and velocities of Compton, 24:21950 (FOA-4-4374)
interactions $\gamma + e \to \gamma + \gamma + e$, total cross sections for double Compton, (T), 25:19958
interactions $\gamma + e \to \gamma\ (2\gamma) + e$ in constant electromagnetic field, spectral and angular distributions for Compton and induced Compton, (T), 25:59368
interactions $\gamma + e$ and $\gamma + N$, form factors and equal-time commutators in quantum electrodynamics for, 23:16945 (DESY-68/54)
interactions $\gamma + e$ at 1.17 and 1.33 MeV, integrated Compton cross section for, (E), 21:864
interactions $\gamma + e$ at 2.62 MeV, streamer chamber study of pair production in, (E), 25:17363
interactions $\gamma + e$ at 5 to 20 GeV, virtual Compton effect contribution to electron pair production from, (T), 21:11754
interactions $\gamma + e$ at 50 and 100 GeV/c, proposed experiment for Compton, 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + e$ at 500 and 950 MeV, pair production and Compton, (E), 22:44301
interactions $\gamma + e$ at 550 MeV, angular and energy distribution of gamma quanta in crossed beam Compton, (E), 23:14945
interactions $\gamma + e$ at 662 keV, solid-state detector study of differential cross sections and photon spectra for inelastic Compton, (E), 24:26361
interactions $\gamma + e$ at high energies and small angles, amplitude and electron pair production cross sections for Delbrueck, (T), 24:10831
interactions $\gamma + e$ at high energies in crossed beams, polarization of photons from Compton, (T), 23:51900
interactions $\gamma + e$ at high energies in hydrogen-like atoms, Compton, (T), 24:20109
interactions $\gamma + e$ at high energies, amplitudes for, 23:42618
interactions $\gamma + e$ at high energies, asymptotic behavior of amplitudes and cross sections for Compton, 21:33644
interactions $\gamma + e$ at high energies, asymptotics and amplitudes of, (T), 25:33625
interactions $\gamma + e$ at high energies, calculation of amplitudes for elastic, 23:32655
interactions $\gamma + e$ at high energies, leading singularity in complex angular momentum plane in quantum electrodynamics for asymptotics of, (T), 25:14802
interactions $\gamma + e$ at high energies, quantum electrodynamics for Compton, 23:51987
interactions $\gamma + e$ at high energy limit, multiphoton exchange amplitudes for elastic, 24:18134
interactions $\gamma + e$ at low energies, Singh lemma for Compton, 22:3315

interactions $\gamma + e$ from colliding-beam $e^+ + e^-$ interactions, inelastic, 25:47793
interactions $\gamma + e$ in e^+-e^- colliding beams, inelastic, (T), 25:33593 (DESY-71/15)
interactions $\gamma + e$ in eight-dimensional space, (T), 22:5535
interactions $\gamma + e$ in electromagnetic field, anti τ—τ pair production in, (T), 25:53057
interactions $\gamma + e$ in hydrogen at 500 and 950 MeV, spectrometer study of cross section for Compton, 21:29417 (SLAC-PUB-307)
interactions $\gamma + e$ in lasers, quantum electrodynamics with external current and potential for, 22:32200
interactions $\gamma + e$ in magnetic field, electron beam polarization from resonant, (T), 24:24301
interactions $\gamma + e$ on bound electrons, intermediate-state binding effects for transition probabilities for Compton and Raman—Smekal incoherent, 24:18142
interactions $\gamma + e$ on K-shell electron, elastic Compton, 23:25564
interactions $\gamma + e$ on relativistic electrons, differential cross section for Compton, (T), 23:5563
interactions $\gamma + e$ with bound electrons, time delay theory in resonance, (T), 24:37714
interactions $\gamma + e$ with electron beams in crystals, anomalous transmission in, (T), 25:59228
interactions $\gamma + e$, at high energies, Feynman diagrams for physical description of diffraction Compton, 23:46658
interactions $\gamma + e$, Compton scattering and renormalization for, 21:33648
interactions $\gamma + e$, cross sections for double and triple Compton, 22:22285
interactions $\gamma + e$, cross sections for W pair production in, (T), 25:9707
interactions $\gamma + e$, currents as coordinates for amplitude of forward, 22:48260
interactions $\gamma + e$, disturbance of second-order coherence of photon field in quantum electrodynamics for forward, (T), 25:56456
interactions $\gamma + e$, effects of coherence on intensity-dependent frequency shift in Compton, 25:43590
interactions $\gamma + e$, Feynman rules in statistical mechanics for, 21:33645
interactions $\gamma + e$, formula for differential cross section for Compton, 22:22364
interactions $\gamma + e$, frequency shift in Compton, 21:901
interactions $\gamma + e$, intensity-dependent frequency shift in high-intensity Compton, (T), 23:51885
interactions $\gamma + e$, j-plane singularities in channel with vacuum quantum numbers for, 24:18121
interactions $\gamma + e$, plane-wave packets in nonlinear Compton, 24:37717
interactions $\gamma + e$, Pomeranchuk pole exchange contribution to forward Compton, 23:44629
interactions $\gamma + e$, quark—parton model for inequalities for structure functions of inelastic Compton, (T), 25:43586 (SU-1206-250)
interactions $\gamma + e$, radiative corrections and polarization effects contributions to cross sections for, (T), 25:53059
interactions $\gamma + e$, relativistic quasipotential equations Compton for, (T), 25:1444 (JINR-E2-5225)
interactions $\gamma + e$, spectrum of inverse Compton, (T), 22:22349
interactions $\gamma + e$, test for gauge-invariant modifications of quantum electrodynamics from single, double, triple, and multiple Compton, (T), 23:32805
interactions $\gamma + e$, uncertainty principle for Einstein—Bohr ideal experiment for, 23:34561
interactions $\gamma + e$, uncertainty principle for generalized Compton, 23:34563
interactions $\gamma + e$, use of Feynman diagrams for Compton, 23:15210
interactions $\gamma + e^- \rightarrow e^+ + e^- + e^-$, cross sections for, 21:42307
interactions $\gamma + e^- \rightarrow e^- + e^+(\mu^+) + e^-(\mu^-)$, cross sections for lepton pair production in, (T), 23:51880 (JINR-P2-4644)
interactions $\gamma \rightarrow e^+ + e^-$ in external field, impact factors for, 24:26399
interactions $\gamma + e^-$ at 661.6 keV, cross section for double Compton, (E), 21:9691
interactions $\gamma + e^-$, bremsstrahlung and elastic radiative corrections to cross sections for Compton, 21:11757
interactions $\gamma + e^-$, electron mass shift determination from, (T), 21:4022
interactions $\gamma + e^-$, frequency shift in Compton, 21:5367
interactions $\gamma + e^-$, polarization effects in inelastic, (E/T), 21:15252 (CONF-660221-, pp 251-4)
interactions $\gamma + e^+(e^-) \rightarrow e^+(e^-) + \tau +$ anti τ in hot plasma, neutrino energy loss rate from, (T), 21:18963
interactions $\gamma + \gamma \rightarrow 3\pi$, relation between amplitudes for $e^+ + e^- \rightarrow 3\pi$, $\pi^0 \rightarrow 2\gamma$, and, 25:59357
interactions $\gamma + \gamma \rightarrow A^+ + A^-$, lower order of perturbation theory for cross section relation of $e^+ + e^- \rightarrow e^+ + e^- + A^+ + A^-$ interactions with, (T), 25:19938 (JINR-P2-5505)
interactions $\gamma + \gamma \rightarrow$ delta, cross sections for, 25:53081
interactions $\gamma + \gamma \rightarrow e^- + e^- + e^+ + e^+$, total cross sections for, 24:37718
interactions $\gamma + \gamma \rightarrow e^+ + e^+ + e^- + e^-$, total cross sections for, (T), 25:3325
interactions $\gamma + \gamma \rightarrow e^+ + e^- + \mu^+ + \mu^-$, impact factor representation for calculation of cross section for, (T), 25:3314
interactions $\gamma + \gamma \rightarrow e^+ + e^-$ in isotropic photon gas, absorption probability for, 21:25258
interactions $\gamma + \gamma \rightarrow e^+ + e^-$, polarization in, (E/T), 24:42865
interactions $\gamma + \gamma \rightarrow$ epsilon, cross sections for, 25:53081
interactions $\gamma + \gamma \rightarrow$ eta, cross sections for, 25:53081
interactions $\gamma + \gamma \rightarrow$ gravitons in gravitational fields, cross sections for, (T), 22:22458
interactions $\gamma + \gamma \rightarrow \gamma + \gamma$ from amplitudes and differential cross sections for particle production in $\gamma + \gamma$ interactions in $e + e$ interactions in colliding beams, (T), 25:40913 (COO-264-578)
interactions $\gamma + \gamma \rightarrow \gamma + \tau +$ anti τ, rate of stellar energy loss and cross sections for, 24:3605
interactions $\gamma \rightarrow \gamma + \gamma$, model for CP violation in, (T), 22:24699
interactions $\gamma + \gamma \rightarrow$ hadrons from $e^+ + e^-$ and $e^- + e^-$ interactions, total cross sections for, 25:53081
interactions $\gamma + \gamma \rightarrow$ hadrons, cross sections for, 25:53052
interactions $\gamma + \gamma \rightarrow m\pi$ $(m > 1)$, phenomenological effective Lagrangian for, 25:33647
interactions $\gamma + \gamma \rightarrow m\pi^+ + m\pi^-$, soft-pion techniques, PCAC hypothesis, and current algebra for amplitudes and cross sections for, (T), 25:40925
interactions $\gamma + \gamma \rightarrow n\pi^0$, anomalous behavior of, 25:36446
interactions $\gamma + \gamma \rightarrow \tau +$ anti τ in intergalactic space, neutrino energy density in universe from, 24:15539
interactions $\gamma + \gamma \rightarrow \tau +$ anti τ in intermediate boson theory, cross sections for, 25:25382
interactions $\gamma + \gamma \rightarrow \tau +$ anti τ, cross section for weak interactions mediated by vector meson for, 21:21200
interactions $\gamma + \gamma \rightarrow \tau +$ anti τ, dispersion relations for cross sections for τ—anti τ pair production and black-body neutrino luminosity in, (T), 25:43605
interactions $\gamma + \gamma \rightarrow \tau +$ anti τ, stellar energy loss from, 22:50355
interactions $\gamma + \gamma \rightarrow \pi + \pi$ at low energies, cross section predictions from dispersion relations and unitarity for, 25:40931
interactions $\gamma + \gamma \rightarrow \pi + \pi$ in $e + e$ interactions in colliding beams, π—π s-wave phase shifts from amplitudes and differential cross sections for, (T), 25:40913 (COO-264-578)
interactions $\gamma + \gamma \rightarrow \pi + \pi$, kinematics and cross sections for, (T), 25:17492
interactions $\gamma + \gamma \rightarrow \pi^0 + \pi^0$, $f^0 \rightarrow 2\gamma$ decay width from dispersion sum rule for, 22:17908
interactions $\gamma + \gamma \rightarrow \pi^0$, cross sections for, 25:53081
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^- + e^+ + e^-$, total cross sections for, (T), 25:3325
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^- + \pi^0$, axial-current divergences in calculations of, 25:19951
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$, total cross sections for, (T), 25:3325
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^-$ in colliding electron beams, differential cross sections for, (T), 25:50099
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^-$ in $e + e \rightarrow 2e + \pi^+ + \pi^-$ and $e^+ + e^- \rightarrow e^+ + e^- + \pi^+ + \pi^-$ interactions in colliding beams, amplitudes and phases for, (T), 25:53048 (DESY-71/30)
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^-$ near f(1260), cross sections for, (T), 25:14596 (JINR-E2-5424)
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^-$, differential cross sections for pionization in $e^+ + e^-$ and $e^- + e^-$ interactions in colliding beams for two amplitudes and relative phase for, (T), 25:45690 (DESY-71/23)
interactions $\gamma + \gamma \rightarrow \pi^+ + \pi^-$, external magnetic field effects on total cross sections for, (T), 23:51886
interactions $\gamma + \gamma \rightarrow$ rho^0 + rho^0 at high energies, vector dominance model for cross section of, 22:34918
interactions $\gamma + \gamma \rightarrow X^0$, cross sections for, 25:53081
interactions $\gamma + \gamma$ at high energies and small angles, amplitude and electron pair production cross sections for, (T), 24:10831
interactions $\gamma + \gamma$ at high energies in colliding electron beams, kinematics and cross sections for hadron production in, (T), 25:33619
interactions $\gamma + \gamma$ at high energies in quantum electrodynamics, 23:51987
interactions $\gamma + \gamma$ at high energies, amplitudes for, 23:42618
interactions $\gamma + \gamma$ at high energies, asymptotics and amplitudes of, (T), 25:33625
interactions $\gamma + \gamma$ at high energies, calculation of amplitudes for elastic, 23:32655
interactions $\gamma + \gamma$ at high energies, Feynman diagrams for physical description of diffraction, 23:46658
interactions $\gamma + \gamma$ at high energies, leading singularity in complex angular momentum plane in quantum electrodynamics for asymptotics of, (T), 25:14802
interactions $\gamma + \gamma$ at high energies, method for measuring total cross sections of, (T), 25:17436
interactions $\gamma + \gamma$ at high energies, total summation of perturbation series for forward, (T), 25:17499 (JINR-E2-5509)
interactions $\gamma + \gamma$ at high energies, use of electron—positron colliding beam for experimental study of, 25:30798
interactions $\gamma + \gamma$ at high energy limit, multiphoton exchange amplitudes for elastic, 24:18134
interactions $\gamma + \gamma$ from $e^+ + e^-$ interactions in storage rings, experimental conditions for, 25:36451
interactions $\gamma + \gamma$ from $e^+ + e^-$ interactions in storage rings, study of, (E/T), 25:7607
interactions $\gamma + \gamma$ from threshold to extremely high energies, feasibility of hadron production in, (E), 24:47362
interactions $\gamma + \gamma$ in colliding beams, cross sections for hadron production in, (T), 25:36433 (LNF-71/1)
interactions $\gamma + \gamma$ in colliding beams, differential cross sections for hadron production in deep inelastic $e + e$ interactions from total cross sections for hadron production in virtual, (T), 25:59371
interactions $\gamma + \gamma$ in $e + e$ interactions in colliding beams, $\gamma + \gamma \rightarrow \gamma + \gamma$ interactions from amplitudes and differential cross sections for particle production in, (T), 25:40913 (COO-264-578)
interactions $\gamma + \gamma$ in $e + e$ interactions in colliding beams, amplitudes and differential cross sections for hadron production in, (T), 25:40913 (COO-264-578)
interactions $\gamma + \gamma$ in $e^+ + e^-$ interactions in colliding beams, selection rules for, (E/T), 25:52990 (DESY-71/28)
interactions $\gamma + \gamma$ in nuclear Coulomb field, coalescence in, (T), 21:9736
interactions $\gamma + \gamma$ in quantum electrodynamics, amplitude for elastic, 24:37718
interactions $\gamma + \gamma$ in superluminal inertial frames, cross sections for backward, 24:18277
interactions $\gamma + \gamma$ in uniform electromagnetic field, Schwinger formulation for coalescence in, 21:27423
interactions $\gamma + \gamma$ via one-graviton exchange, general relativity and quantum linearized field theories for cross section for, 23:23409
interactions $\gamma + \gamma$ with electromagnetic radiation, general formulas for pair production from, 24:24304
interactions $\gamma + \gamma$, amplitudes for forward elastic, (T), 25:3325
interactions $\gamma + \gamma$, amplitudes from vacuum polarization tensor in quantum electrodynamics, 25:28070
interactions $\gamma + \gamma$, asymptotic behavior of total cross sections off mass shell for, 25:53093
interactions $\gamma + \gamma$, axial-vector current in two-dimensional spinor electrodynamics with nonvanishing fermion mass for, 24:3741
interactions $\gamma + \gamma$, correspondence principle for, 21:9843
interactions $\gamma + \gamma$, cross sections for gravitational, 21:37732
interactions $\gamma + \gamma$, feasibility of experiments for, 21:31519
interactions $\gamma + \gamma$, gravitational interaction effects on, (T), 22:24737
interactions $\gamma + \gamma$, graviton emission from, 24:47507
interactions $\gamma + \gamma$, impact factor representation of amplitude for, 24:12990
interactions $\gamma + \gamma$, j-plane singularities in channel with vacuum quantum numbers, 24:18121
interactions $\gamma + \gamma$, phenomenological effective Lagrangian for odd and even multiple π production in, (T), 25:33597 (NYO-3829-68)
interactions $\gamma + \gamma$, photon and hadron production in $e^+ + e^-$ interactions in colliding beams for forward, (T), 24:52000 (JINR-E2-5347)
interactions $\gamma + \gamma$, polarization tensor in quantum electrodynamics for amplitude of, (T), 25:1598 (NP-18473)
interactions $\gamma + \gamma$, polarization tensor on the n-th rank from, 22:9549
interactions $\gamma + \gamma$, production of e^+—e^- pairs from, (E), 25:33522
interactions $\gamma + \gamma$, π^0 and eta exchange in total cross sections for, (T), 25:14596 (JINR-E2-5424)
interactions $\gamma + \gamma$, Regge behavior and scaling law for asymptotical behavior of total cross sections off mass shell for, (T), 25:45692 (JINR-E2-5778)
interactions $\gamma + \gamma$, test of quantum electrodynamics from electron pair production in, 24:32997
interactions $\gamma + \gamma$, virtual graviton exchange in differential cross sections of gravitational, (T), 24:45592
interactions γ + He-3 $\rightarrow \pi^0$ + He-3 at 340 MeV, differential cross sections for, (E), 23:51836
interactions $\gamma + K \rightarrow \Lambda +$ anti N, analyticity properties of helicity amplitudes of, 22:39341
interactions $\gamma + K$ at high energies, method for measuring total cross sections for, (T), 25:17436
interactions $\gamma + \Lambda \rightarrow \Sigma^0 + \gamma$, saturation of superconvergence relations for, 24:10710
interactions $\gamma + \Lambda$, superconvergent sum rule for π production from, 21:31562
interactions $\gamma + \Lambda^0 \rightarrow \Lambda^0 + \pi^0$, superconvergent sum rule for, 22:39325
interactions $\gamma + N \rightarrow 2\pi + N$, current algebra description of, 21:25264
interactions $\gamma + N \rightarrow A_1 + N$, hard-meson current algebra for peripheral, 24:8699
interactions $\gamma + N \rightarrow A_1 + N$, hard-pion current-algebra calculation of cross section for, 23:3722
interactions $\gamma + N \rightarrow \Delta$ + rho$^+$(rho$^-$), relation of electromagnetic moments of charged rho to, 25:30799
interactions $\gamma + N \rightarrow \Delta$ (1920) $\rightarrow$ rho^0 + N in vector-meson dominance model, cross sections for, 22:50325
interactions $\gamma + N \rightarrow \Delta(1236) + \pi$ at 0.7 to 1 GeV, angular distribution asymmetry of π emission in, (T), 25:9798
interactions $\gamma + N \rightarrow \Delta(1236) + \pi$, static multipole moments of $\Delta(1236)$ from saturating superconvergence sum rules in, 23:27778
interactions $\gamma + N \rightarrow \Delta(1236)$ in lead nuclear field, high-energy neutron detection from cross sections for Coulomb, (T), 24:21955 (UR-875-295)
interactions $\gamma + N \rightarrow \Delta(1236)$, dispersion relations solution for, 22:3328
interactions $\gamma + N \rightarrow \Delta(1950) \rightarrow$ rho + N, differential cross section and rho density matrix elements for, 25:53086
interactions $\gamma + N \rightarrow \Delta(2420) \rightarrow$ rho + N, differential cross section and rho density matrix elements for, 25:53086
interactions $\gamma + N \rightarrow \Delta(2420) \rightarrow$ rho^0 + N in vector-meson dominance model, cross sections for, 22:50325
interactions $\gamma + N \rightarrow \Delta^0 + \omega$, OPE amplitude and $\omega\pi\gamma$ coupling constants from, 25:27990
interactions $\gamma + n \rightarrow \Delta^0 + \pi^0$ at high energies, models for, (T), 25:27990
interactions $\gamma + n \rightarrow$ eta + n at high energies, poles and cuts in model for, 24:21953 (ITF-70-2)
interactions $\gamma + N \rightarrow$ eta + N at high energies, Regge pole model for eta production in, 22:24607
interactions $\gamma + N \rightarrow$ eta + N, phase shift analysis for, 22:1404 (TH-177)
interactions $\gamma + N \rightarrow$ eta (X) + N, differential cross sections, angular-distribution asymmetries, and recoil nucleon polarization in Regge pole theory for, 24:28503 (ITF-70-10)
interactions $\gamma + N \rightarrow$ eta(π^0) + N, vector dominance in Regge pole model with SU(3) for, 23:42608

interactions $\gamma + n \rightarrow \text{eta}^0 + n$ at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + N \rightarrow \gamma$ + baryon and $\gamma + N \rightarrow$ vector meson + baryon, photon—vector-meson analogy model for relation between, 23:25557
interactions $\gamma + N \rightarrow \gamma + N$ at high energies, test of vector dominance model in Regge trajectory effects in forward Compton, (T), 25:22730
interactions $\gamma + N \rightarrow \gamma + N$ in s- and u-channel, contribution to amplitude for baryon resonance production, (T), 22:22357
interactions $\gamma + N \rightarrow \gamma + N$, dynamical theory for, 21:25287
interactions $\gamma + n \rightarrow \gamma + n$, lower bounds for amplitude of forward Compton, (T), 24:26403
interactions $\gamma + N \rightarrow \gamma + N$, method for derivation of low-energy theorem from amplitude of Compton, 22:44364
interactions $\gamma + N \rightarrow \gamma + N$, $\pi^0 \rightarrow 2\gamma$ and $\text{eta}^0 \rightarrow 2\gamma$ decay rates from superconvergence relations of Compton, (T), 22:34907
interactions $\gamma + n \rightarrow \gamma + n$, quark model extension for total and differential cross sections for, (T), 25:59378
interactions $\gamma + N \rightarrow \gamma + N$, scale invariance and external mass dependence of Regge residues in multi-Veneziano model for amplitude of Compton, (T), 25:22738
interactions $\gamma + N \rightarrow \gamma + N$, sum rules and field algebras for Compton, (T), 25:38709
interactions $\gamma + N \rightarrow \gamma + N$, sum rules for nucleon dipole moment from Compton-effect amplitude of, (T), 25:30776 (JINR-P2-5679)
interactions $\gamma + N \rightarrow K + \Lambda\ (\Sigma)$, photon—vector meson analogy model for anti $K + N \rightarrow$ vector meson $+ \Lambda\ (\Sigma)$ relation with, 22:46366
interactions $\gamma + N \rightarrow K(\pi) + \Lambda(\Delta)$, Stichel theorem for, (T), 25:17439
interactions $\gamma + n \rightarrow K^0 + \Lambda^0$ at 1.1 to 1.5 GeV/c in heavy-liquid bubble chamber, cross sections and quark model predictions for, 21:35251
interactions $\gamma + n \rightarrow K^0 + \Lambda^0(\Sigma^0)$ below 1.530 GeV in heavy liquid bubble chamber, upper limits for, (E), 22:3245
interactions $\gamma + n \rightarrow K^0 + \Lambda^0(\Sigma^0)$ below 1500 MeV in heavy-liquid bubble chamber, upper limits on cross sections for, 21:33588
interactions $\gamma + n \rightarrow K^0 + \Sigma^0$ at 1.1 to 1.5 GeV in heavy-liquid bubble chamber, cross sections and quark model predictions for, 21:35251
interactions $\gamma + n \rightarrow K^+ + \Sigma^-$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + n \rightarrow K^+ + \Sigma^-(1385)$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + N \rightarrow \Lambda + K$, use of current algebra and PCAC hypothesis for amplitude of, 22:15715
interactions $\gamma + n \rightarrow \Lambda + K^+$ near threshold, cross sections for, (T), 23:7110
interactions $\gamma + N \rightarrow$ meson $+ N^*$, production and decay distributions of final states from polarized, 23:5576
interactions $\gamma + N \rightarrow N + 2\pi$, use of PCAC hypothesis and current commutation relations for multiple soft-pion production in, (T), 22:44359
interactions $\gamma + N \rightarrow N + A_1$, Regge exchange formalism for differential cross section for, (T), 24:28514
interactions $\gamma + N \rightarrow N + e^- + e^+$ in diamond crystals, use to analyze high energy photon polarization, 21:17020 (CONF-660918-, pp 207-13)
interactions $\gamma + n \rightarrow n + \text{eta}$ at high energies, pole—cut model for, (T), 25:27989
interactions $\gamma + N \rightarrow N + l^+ + l^-$ at high energies, ω - rho interference in, 25:5325 (DNPL/R-7, pp 115-38)
interactions $\gamma + N \rightarrow N$ + mesons at high energies in SU(3)-symmetric Regge pole model, branching ratios for, 21:42311
interactions $\gamma + N \rightarrow N$ + neutral vector meson, quark model for, 23:18877 (ITF-68-36)
interactions $\gamma + N \rightarrow N + \omega^0$, use of linearly polarized photons as parity filter in, 22:37106
interactions $\gamma + N \rightarrow N + \text{phi}^0$, quark model with electromagnetic current with SU(3) singlet and octet components for differential cross section relations for, (T), 25:22866
interactions $\gamma + N \rightarrow N$ + pseudoscalar meson, s-channel helicity conservation effects on t-channel Regge cuts in amplitudes of, (T), 25:22736
interactions $\gamma + N \rightarrow N + \pi$ at high energies, translation of symmetry properties of helicity amplitudes for polarization in, (E/T), 23:46656
interactions $\gamma + N \rightarrow N + \pi$ at low energies, current commutators and mass extrapolation theory for parameters of multipole amplitudes of, 22:39330
interactions $\gamma + N \rightarrow N + \pi$ in (3,3) resonance region, kinematics and model of single π production in, (T), 23:8777
interactions $\gamma + N \rightarrow N + \pi$, chiral Lagrangians formalism for, 25:9726
interactions $\gamma + N \rightarrow N + \pi$, current algebra study of low-energy behavior of amplitudes for, 22:9550
interactions $\gamma + N \rightarrow N' + \pi$, current conservation for amplitudes of, 21:42332
interactions $\gamma + N \rightarrow N + \pi$, currents and current commutators for amplitude of, 22:11706
interactions $\gamma + N \rightarrow N + \pi$, helicity formalism for, 21:40167
interactions $\gamma + N \rightarrow N + \pi$, model for N^* production in, 22:3451
interactions $\gamma + N \rightarrow N + \pi$, nucleon magnetic moment relations from modified PCAC hypothesis for, (T), 22:44358
interactions $\gamma + N \rightarrow N + \pi$, Reggeization of kinematically free amplitudes for, 23:27811
interactions $\gamma + N \rightarrow N + \pi$, rho—π—γ vertex calculation from modified PCAC hypothesis for, 22:37121
interactions $\gamma + N \rightarrow N + \pi$, strong-cut Reggeized absorption model for backward, 24:35661
interactions $\gamma + N \rightarrow N + \pi$, sum rule for π form factor from, 22:34927
interactions $\gamma + N \rightarrow N + \pi$, vector dominance model for N^* production from, 21:31553 (DESY-67/13)
interactions $\gamma + N \rightarrow N + \pi(\text{eta})$, sum rules using boson—fermion commutation relations for, 21:18948
interactions $\gamma + n \rightarrow n + \pi^0$ at 540 to 830 MeV, analysis of, (E/T), 25:53088
interactions $\gamma + N \rightarrow N + \pi^0$ at high energies, mesons (rho) and (ω) trajectories with different slopes for, 24:3572
interactions $\gamma + n \rightarrow n + \pi^0$, angular distributions for, (T), 24:28520
interactions $\gamma + n \rightarrow n + \pi^0$, current commutators, low-energy theorems, and minimal coupling for π^0 production from, 21:42297
interactions $\gamma + n \rightarrow n + \pi^0$, low-energy theorems for, 25:9721
interactions $\gamma + n \rightarrow n + \pi^+ + \pi^- + \pi^-$ at 4.3 GeV, total and resonance production cross sections for, (E), 25:14521
interactions $\gamma + n \rightarrow n + \pi^+ + \pi^-$ below 900 MeV in deuterium bubble chamber, total cross sections for, (E), 24:24218
interactions $\gamma + N \rightarrow N$ + rho, $N^*(2600)$ production in, (T), 23:15046
interactions $\gamma + N \rightarrow N + \text{rho}^0$, use of linearly polarized photons as parity filter in, 22:37106
interactions $\gamma + N \rightarrow N + \text{rho}^0$, vector dominance model for N^* production from, 21:31553 (DESY-67/13)
interactions $\gamma + N \rightarrow N + \text{rho}^0(\omega^0)$, quark model with electromagnetic current with SU(3) singlet and octet components for differential cross section relations for, (T), 25:22866
interactions $\gamma + N \rightarrow N + V$ ($V = \text{rho}^0$, ω, or phi), vector dominance, ω—phi mixing, and suppression of phi production in, (T), 23:7112
interactions $\gamma + N \rightarrow N$ + vector mesons, quark model for, 22:20184
interactions $\gamma + N \rightarrow N^* + \pi^0$, test for Regge cuts in angular momentum plane from, (T), 22:22354
interactions $\gamma + N \rightarrow N^{**} \rightarrow \pi + N$, resonant amplitudes and cross section for, 21:35287
interactions $\gamma + N \rightarrow N^*$, excitation function for $N_{15}^*(1688)$ doublet production from, (T), 21:40175
interactions $\gamma + N \rightarrow N^*$, form factor for γNN^* vertex from, 22:26607
interactions $\gamma + N \rightarrow N^*$, suppression of Roper resonance production in, (T), 24:40301
interactions $\gamma + N \rightarrow \omega + N$ at high energies, peripheral model and photon dissociation for, (T), 24:52015
interactions $\gamma + N \rightarrow \omega + N(N^*)$ at 9.1 GeV in deuterium and hydrogen targets, counter study of cross sections for, (E), 25:14512
interactions $\gamma + n \rightarrow \omega^0\ (\text{rho}^0) + \Delta^0$ at 4.3 GeV in bubble chamber, width of (rho πγ) from upper limit of cross sections for, (E), 24:49301
interactions $\gamma + n \rightarrow p + \pi^- + \pi^0$ below 900 MeV in deuterium bubble chamber, total cross sections for, (E), 24:24218
interactions $\gamma + n \rightarrow p + \pi^- + \pi^0$, proposed test for isotensor current from, (E/T), 24:49368 (NYO-4076-8)
interactions $\gamma + n \rightarrow p + \pi^- + \pi^0$, test for presence of isotensor current from, 24:49391
interactions $\gamma + n \rightarrow p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 4.3 GeV, total and resonance production cross sections for, (E), 25:14521
interactions $\gamma + n \rightarrow p + \pi^+ + \pi^- + \pi^-$ at 4.3 GeV, total and resonance production cross sections for, (E), 25:14521
interactions $\gamma + n \rightarrow p + \pi^+ + \pi^- + \pi^-$, kinematic-ambiguity-free test for A_1 and B production in, (T), 23:16955
interactions $\gamma + n \rightarrow p + \pi^-$ at 0.2 to 2.0 GeV, total and differential cross sections for, (E), 23:13024
interactions $\gamma + n \rightarrow p + \pi^-$ at 1 GeV in deuterium bubble chamber, total and differential cross sections for, (E), 24:35594 (LNF-70/16)
interactions $\gamma + n \rightarrow p + \pi^-$ at 1 GeV, total and differential cross sections for, (E), 24:35597
interactions $\gamma + n \rightarrow p + \pi^-$ at 250 MeV in nuclei, magnetic spectrometer study of meson (π^-) yield from, (E), 24:18066
interactions $\gamma + n \rightarrow p + \pi^-$ at 352 to 550 MeV, differential asymmetry ratios with polarized photons in, (E), 22:52918
interactions $\gamma + n \rightarrow p + \pi^-$ at 500 to 800 MeV, differential cross sections for π^- production in, (E), 23:5511 (NP-17682)
interactions $\gamma + n \rightarrow p + \pi^-$ at 515 to 714 MeV, plastic scintillation counter and spark chamber study of recoil proton polarization in, (E), 24:42866
interactions $\gamma + n \rightarrow p + \pi^-$ at 540 to 830 MeV, analysis of, (E/T), 25:53088
interactions $\gamma + n \rightarrow p + \pi^-$ at high energies, isotopic structure of N^* decay amplitudes from, (T), 25:27990
interactions $\gamma + n \rightarrow p + \pi^-$ at high energies, translation of symmetry properties of helicity amplitudes for polarization in, (E/T), 23:46656
interactions $\gamma + n \rightarrow p + \pi^-$ in first resonance region, parameters for, 23:18850
interactions $\gamma + n \rightarrow p + \pi^-$ in second resonance region, phenomenological analysis of, 24:28520
interactions $\gamma + n \rightarrow p + \pi^-$, current commutators, low-energy theorems, and minimal coupling for π^- production from, 21:42297
interactions $\gamma + n \rightarrow p + \pi^-$, isotopic structure of isospin-1/2 N^* photoexcitation amplitudes from comparison of proton polarization in $\gamma + p \rightarrow p + \pi^0$ interactions and, (T), 24:6681
interactions $\gamma + n \rightarrow p + \pi^-$, low-energy theorems for, 25:9721
interactions $\gamma + n \rightarrow p + \pi^-$, $N^*(1405)$ production in, (T), 21:21166
interactions $\gamma + n \rightarrow p + \pi^-$, Regge pole model for invariant functions for differential cross sections of, 24:3565
interactions $\gamma + n \rightarrow p + \pi^-$, Regge pole model for invariant functions for, 23:51952
interactions $\gamma + n \rightarrow p + \pi^-$, Regge-pole model for, 23:49088
interactions $\gamma + n \rightarrow p + \pi^-$, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + n \rightarrow p + \pi^-$, test for existence of isotensor electromagnetic current from, (T), 25:19956
interactions $\gamma + n \rightarrow p + \text{rho}^-$, OPE amplitude and rhoπγ coupling constants from, 25:27990
interactions $\gamma + n \rightarrow p + \text{rho}^-$, relation of electromagnetic moments of charged rho to, 25:30799
interactions $\gamma + N \rightarrow \text{phi} + N$, distinction between Freund and CHN classification of Pomeranchukon in, 23:46660
interactions $\gamma + N \rightarrow \pi + \Delta$ at high energies, contribution of low-energy theorem, 25:14622
interactions $\gamma + N \rightarrow \pi + \Delta$ in quark model, cross sections for, (T), 25:1448
interactions $\gamma + N \rightarrow \pi + \Delta$, conspiracy relations in Regge pole theory for, 24:52014
interactions $\gamma + N \rightarrow \pi + \Delta$, sum rules for, 23:42629
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$, contributions of $^{3}/_{2}^{-}$ and $^{3}/_{2}^{+}$ intermediate resonances in multipole analysis of, (T), 25:45699
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$, production and decay angular distributions for, (T), 22:7468 (UCRL-17867)
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$, Regge pole model with calculation of rho, A_2, and π trajectories for differential cross sections and isobar polarization density matrix for, (T), 24:24309
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$, superconvergence relations in, 24:52030
interactions $\gamma + N \rightarrow \pi + \Delta(N)$, behavior of helicity amplitudes in t channel for, 24:18111 (CONF-690330-, pp 161-4)
interactions $\gamma + N \rightarrow \pi + N + \gamma + \gamma$, perturbation theory for, 22:39335
interactions $\gamma + N \rightarrow \pi + N + \gamma$, perturbation theory for, 22:39335
interactions $\gamma + N \rightarrow \pi + N$ above and below 500 MeV, (E/T), 21:5402
interactions $\gamma + N \rightarrow \pi + N$ at 1 to 2 GeV, review of N^* production and quark model calculations for, (E/T) , 25:33516 (INP-713(Vol.2), pp 49-54)
interactions $\gamma + N \rightarrow \pi + N$ at 210 and 225 MeV, amplitudes, isotopic components, and $\pi + N$ interaction constant and scattering length difference from phenomenological analysis of, 24:8581(T) (CERN-Trans-68-14)
interactions $\gamma + N \rightarrow \pi + N$ at high energies in O(4) symmetry, conspiracy of Regge poles in, 22:3336
interactions $\gamma + N \rightarrow \pi + N$ at high energies, fixed poles in backward, (T), 23:15044
interactions $\gamma + N \rightarrow \pi + N$ at high energies, generalization of Frautschi—Margolis model for Regge-cut multiple-scattering corrections to differential cross sections of, (T), 24:51999 (AD-705700)
interactions $\gamma + N \rightarrow \pi + N$ at high energies, Lorentz group for Regge pole analysis of phenomenological, 23:44628
interactions $\gamma + N \rightarrow \pi + N$ at high energies, O(3,1) symmetry for conspiring Regge trajectories in, 23:3778
interactions $\gamma + N \rightarrow \pi + N$ at high energies, polarization parameters and target asymmetry for, (T), 25:47775 (DESY-71/27)
interactions $\gamma + N \rightarrow \pi + N$ at high energies, Regge cut multiple scattering corrections to, 23:46642 (NP-17999)
interactions $\gamma + N \rightarrow \pi + N$ at high energies, Regge parametrization for backward π^+ and π^0 production in, (E/T), 24:52008
interactions $\gamma + N \rightarrow \pi + N$ at high energies, research at Southeastern Massachusetts Univ., June 1969 to Feb. 1971, (E), 25:33517(R) (NYO-4115-1)
interactions $\gamma + N \rightarrow \pi + N$ at high energies, spin structure of amplitude for, 21:21173
interactions $\gamma + N \rightarrow \pi + N$ at high energies, vector dominance model for relation with vector meson production in $\pi + N$ interactions for, 24:10721
interactions $\gamma + N \rightarrow \pi + N$ at low energies, current algebra calculation of π production in, 23:32653
interactions $\gamma + N \rightarrow \pi + N$ at low energies, dispersion theory of low-energy limits for, 22:46436
interactions $\gamma + N \rightarrow \pi + N$ at low energies, PCAC hypothesis for threshold cross sections for, (T), 25:5333
interactions $\gamma + N \rightarrow \pi + N$ at threshold, current algebra sum rules for physical amplitudes of, 23:39658
interactions $\gamma + N \rightarrow \pi + N$ below 1 GeV, review of, (T), 25:45694 (LNF-70/54)
interactions $\gamma + N \rightarrow \pi + N$ below 6 GeV, models for, (E), 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + N \rightarrow \pi + N$ in quark model, cross sections for, (T), 25:1448
interactions $\gamma + N \rightarrow \pi + N$ in Regge pole theory, conspiracy condition and superconvergence relations for, 21:42314
interactions $\gamma + N \rightarrow \pi + N$ in Regge theory, 23:46648
interactions $\gamma + N \rightarrow \pi + N$ in resonance region, review of quark model of baryons for, 24:6700 (CALT-68-219)
interactions $\gamma + N \rightarrow \pi + N$ in second resonance region, amplitudes of, (T), 24:40300
interactions $\gamma + N \rightarrow \pi + N$ in SU(3)-Regge-pole model, saturation of superconvergence sum rules for, 21:44321

interactions $\gamma + N \rightarrow \pi + N$ in vector dominance model and Regge model, $\Delta(1236)$ trajectory contribution to backward, 25:5332
interactions $\gamma + N \rightarrow \pi + N$ near threshold, pole approximation in dispersion relations and vector dominance hypothesis for vector-meson-exchange contributions to, (T), 25:36447
interactions $\gamma + N \rightarrow \pi + N$ with nucleon exchange, Bethe—Salpeter equation in ladder approximation for $\Delta(1236)$ production in, 23:46641 (DESY-69/22)
interactions $\gamma + N \rightarrow \pi + N$, A-dominance model for, 22:7473
interactions $\gamma + N \rightarrow \pi + N$, analysis of μ spectra underground for cross-section behavior of, 21:11755
interactions $\gamma + N \rightarrow \pi + N$, baryon Regge-pole contributions to helicity amplitudes for, 25:1446
interactions $\gamma + N \rightarrow \pi + N$, chiral dynamics for low-energy limit of, 23:39648
interactions $\gamma + N \rightarrow \pi + N$, chiral Lagrangian model for single π production in, 23:36885
interactions $\gamma + N \rightarrow \pi + N$, class of quantum fields fur, 23:49159
interactions $\gamma + N \rightarrow \pi + N$, comparison of $\pi^0 + p \rightarrow$ rho^0 + n interactions at 15 GeV/c with, 25:33569
interactions $\gamma + N \rightarrow \pi + N$, computer program for calculating parameters of, (T), 24:52001 (LNF-69/59)
interactions $\gamma + N \rightarrow \pi + N$, conspiracy and gauge invariance in Veneziano model for, 23:51897
interactions $\gamma + N \rightarrow \pi + N$, conspiracy test in, 22:5540
interactions $\gamma + N \rightarrow \pi + N$, continuous dispersion sum rules and Regge intercepts for, (T), 24:40320
interactions $\gamma + N \rightarrow \pi + N$, continuous-moment sum rules for pion conspiracy hypothesis in, 23:7111
interactions $\gamma + N \rightarrow \pi + N$, continuous-moment sum rules for, (T), 25:12207
interactions $\gamma + N \rightarrow \pi + N$, Coulomb coupling, gauge invariance, and Regge theory of, 24:10718
interactions $\gamma + N \rightarrow \pi + N$, direct photon—vector meson coupling scheme for wide-angle pair production in, (T), 21:17129
interactions $\gamma + N \rightarrow \pi + N$, dispersion analysis of π production in, 23:32652
interactions $\gamma + N \rightarrow \pi + N$, dispersion relation theory of π production in, 22:24604
interactions $\gamma + N \rightarrow \pi + N$, dispersion relations for partial-wave amplitudes for, 21:7482
interactions $\gamma + N \rightarrow \pi + N$, dispersion theory for, 21:18944
interactions $\gamma + N \rightarrow \pi + N$, divergences of vector and axial vector currents for, 21:23346 (JINR-E2-3196)
interactions $\gamma + N \rightarrow \pi + N$, dynamical models for superconvergence sum rules for, 22:39458
interactions $\gamma + N \rightarrow \pi + N$, equal-time commutators and non-Regge behavior of amplitudes for, 24:24313
interactions $\gamma + N \rightarrow \pi + N$, equivalent experimental set ups for polarization measurements in, (T), 25:53077
interactions $\gamma + N \rightarrow \pi + N$, evaluation of multipoles for, (T), 23:16948
interactions $\gamma + N \rightarrow \pi + N$, evidence for B—rho' conspiracy from sum rules for, 23:3682
interactions $\gamma + N \rightarrow \pi + N$, evidence for isotensor electromagnetic current from, (T), 24:30488
interactions $\gamma + N \rightarrow \pi + N$, finite-energy sum rules and ω Regge pole residue functions for, 22:34898 (NP-17489)
interactions $\gamma + N \rightarrow \pi + N$, fixed poles in first-order weak and electromagnetic amplitudes for, 23:5568
interactions $\gamma + N \rightarrow \pi + N$, fixed-t dispersion relations for π production in, 23:5573
interactions $\gamma + N \rightarrow \pi + N$, gauge invariance and Regge-pole sum rules for, 21:27336
interactions $\gamma + N \rightarrow \pi + N$, generalized dispersion sum rules for A_2 trajectory and residue function in, 22:44381
interactions $\gamma + N \rightarrow \pi + N$, information from vector dominance model on, 23:5558
interactions $\gamma + N \rightarrow \pi + N$, isotensor electromagnetic current in, (T), 25:14604
interactions $\gamma + N \rightarrow \pi + N$, kinematic constraints on Regge-pole residues in, 22:11683
interactions $\gamma + N \rightarrow \pi + N$, kinematic singularities of Regge pole residues in, 21:31591 (NP-16821)
interactions $\gamma + N \rightarrow \pi + N$, kinematical singularities in gauge invariance for amplitudes of, (T), 25:38693
interactions $\gamma + N \rightarrow \pi + N$, low-energy theorems and sum rules for amplitudes of, 23:44627
interactions $\gamma + N \rightarrow \pi + N$, method for deriving angular correlations for, 22:41774 (NP-17531)
interactions $\gamma + N \rightarrow \pi + N$, moving cut contributions to amplitude for, 23:34565
interactions $\gamma + N \rightarrow \pi + N$, multiple-scattering corrections in form of Regge cuts for, 24:10711
interactions $\gamma + N \rightarrow \pi + N$, multipole amplitudes for, 21:31557
interactions $\gamma + N \rightarrow \pi + N$, N^* production in, 23:10766
interactions $\gamma + N \rightarrow \pi + N$, O(4) symmetry for kinematic limitations for amplitude of, 23:21136 (IFVE-STF-68-46-K)
interactions $\gamma + N \rightarrow \pi + N$, perturbation theory for cross sections of one- and two-photon, (T), 25:1453
interactions $\gamma + N \rightarrow \pi + N$, photon—vector-meson analog model for relations between $\pi + N \rightarrow$ rho + N interactions and, 22:39323
interactions $\gamma + N \rightarrow \pi + N$, polarization theorems in, (T), 24:49378
interactions $\gamma + N \rightarrow \pi + N$, pole terms in fixed angle approach for, 22:3325
interactions $\gamma + N \rightarrow \pi + N$, relativistic reconstruction of amplitudes at arbitrary angles, 25:53062
interactions $\gamma + N \rightarrow \pi + N$, review of continuous-moment sum rules for near-forward, 24:18187 (CONF-690330-, pp 202-16)
interactions $\gamma + N \rightarrow \pi + N$, review of vector dominance model for π production in, (T), 25:53076
interactions $\gamma + N \rightarrow \pi + N$, saturation of superconvergence sum rule for, 21:21156
interactions $\gamma + N \rightarrow \pi + N$, simple harmonic forces in nonrelativistic quark model for N^* production in, (T), 25:9788
interactions $\gamma + N \rightarrow \pi + N$, simple phenomenological regularity for near-forward zeros in amplitudes of, 24:6728
interactions $\gamma + N \rightarrow \pi + N$, Stichel theorem for, (T), 25:17439
interactions $\gamma + N \rightarrow \pi + N$, structure of helicity amplitudes for, (T), 24:49475
interactions $\gamma + N \rightarrow \pi + N$, SU(3) x SU(3) symmetry and vector dominance model for sum rules for, 23:51972
interactions $\gamma + N \rightarrow \pi + N$, sum rules for, 23:42629
interactions $\gamma + N \rightarrow \pi + N$, superconvergence sum rule relating nucleon magnetic moments and amplitude for, 21:42309
interactions $\gamma + N \rightarrow \pi + N$, T invariance of bootstrapped currents for, 21:18958
interactions $\gamma + N \rightarrow \pi + N$, time reversal violation effects in, (T), 23:3781
interactions $\gamma + N \rightarrow \pi + N$, unitarity condition for matrix elements for, 22:35154
interactions $\gamma + N \rightarrow \pi + N$, use of Lorentz group in Regge pole analysis of, (T), 22:50321 (UCRL-18377)
interactions $\gamma + N \rightarrow \pi + N$, vector dominance in, (T), 22:32085
interactions $\gamma + N \rightarrow \pi + N$, vector dominance model for relation between $\pi + N \rightarrow$ rho + N interactions and, 24:24272
interactions $\gamma + N \rightarrow \pi + N$, vector dominance model for polarized and unpolarized, 23:49080
interactions $\gamma + N \rightarrow \pi + N$, vector dominance of invariant amplitudes for, 23:49078
interactions $\gamma + N \rightarrow \pi + N$, vector meson dominance of k^2 dispersion relation for invariant amplitudes for π production in, (T), 25:59351
interactions $\gamma + N \rightarrow \pi + N$, vector-dominance model for, 24:42914
interactions $\gamma + N \rightarrow \pi + N$, vector-meson dominance for polarized, 23:42613
interactions $\gamma + N \rightarrow \pi + N$, Veneziano parametrization for, 23:42624
interactions $\gamma + N \rightarrow \pi + N$, zero-mass-limit for low-energy theorems for, 23:51883 (UCRL-19220)
interactions $\gamma + N \rightarrow \pi + N^*$, low-energy theorem from current algebra for, 22:11620
interactions $\gamma + N \rightarrow \pi + N^*$, vector dominance model for, 25:30784
interactions $\gamma + N \rightarrow \pi + N^*$, vector dominance model predictions for, (T), 23:42596
interactions $\gamma + N \rightarrow \pi + \pi + N$, current algebra and PCAC hypothesis for, 23:3668
interactions $\gamma + N \rightarrow \pi(1060)$(eta(1070)) + N, Stichel theorem for, (T), 25:17439
interactions $\gamma + N \rightarrow \pi$(eta) + N, Regge absorption model for forward, (T), 25:56452 (CALT-68-313)
interactions $\gamma + N \rightarrow \pi^0 + N$ at 12 GeV at large angles, Regge pole theory for differential cross sections of, (T), 25:14598
interactions $\gamma + n \rightarrow \pi^0 + n$ at 300 to 850 MeV in first and second resonance region, (T), 21:46520
interactions $\gamma + n \rightarrow \pi^0 + n$ at 4 GeV, cross sections relative to $\gamma + p \rightarrow \pi^0 + p$ interactions, (E), 25:59243
interactions $\gamma + n \rightarrow \pi^0 + n$ at 500 to 900 MeV, Cherenkov detector—spark chamber study of amplitudes for, 24:20272(R) (NP-18091)
interactions $\gamma + n \rightarrow \pi^0 + n$ at 500 to 900 MeV, differential cross sections for, (E), 24:35598
interactions $\gamma + n \rightarrow \pi^0 + n$ at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + n \rightarrow \pi^0 + n$ at high energies, model for, 23:32658
interactions $\gamma + n \rightarrow \pi^0 + n$ at high energies, peripheral model predictions for cross sections of, 23:51878 (DESY-69/31)
interactions $\gamma + N \rightarrow \pi^0 + N$ at high energies, test of Regge pole hypothesis from π^0 production from, 22:1414
interactions $\gamma + N \rightarrow \pi^0 + N$ in quark model, cross sections for, (T), 25:1448
interactions $\gamma + n \rightarrow \pi^0 + n$ in symmetric quark model, baryon resonance contribution to differential cross sections for, 23:27779
interactions $\gamma + n \rightarrow \pi^0 + n$ near N(1518) resonance, scintillation and Cherenkov counter study of, (E), 25:1374
interactions $\gamma + N \rightarrow \pi^0 + n$, differential cross sections, angular-distribution asymmetries, and recoil nucleon polarization in Regge pole theory for, 24:28503 (ITF-70-10)
interactions $\gamma + n \rightarrow \pi^0 + n$, differential cross sections at threshold for, 23:39648
interactions $\gamma + N \rightarrow \pi^0 + N$, effects of absorptive corrections for N and Δ exchange in backward, 23:51867(R) (NYO-1984-13)
interactions $\gamma + N \rightarrow \pi^0 + N$, ω Regge residue functions and finite-energy sum rules for, 22:34921
interactions $\gamma + N \rightarrow \pi^0 + N$, PCAC hypothesis from s-wave threshold amplitudes of, (E/T), 25:59373
interactions $\gamma + n \rightarrow \pi^0 + n$, peripheral model predictions for cross sections for, 24:1553
interactions $\gamma + n \rightarrow \pi^0 + n$, quark model calculations of resonance contributions to cross sections for, (T), 24:3580
interactions $\gamma + N \rightarrow \pi^0 + N$, Regge cuts due to absorption in, (T), 25:43601
interactions $\gamma + n \rightarrow \pi^0 + n$, Regge pole absorption theory for dip structure mechanism for ratio of π^0 production in $\gamma + p \rightarrow \pi^0 + p$ interactions to π^0 production in, (T), 25:53185
interactions $\gamma + n \rightarrow \pi^0 + n$, Reggeized absorption model fits to, 25:56458
interactions $\gamma + N \rightarrow \pi^0 + N$, spin-independent isovector part of amplitude for, (T), 21:17085
interactions $\gamma + N \rightarrow \pi^0 + N$, superconvergence sum rules for, 21:27338
interactions $\gamma + N \rightarrow \pi^0 + N$, test for Regge cuts in angular momentum plane from, (T), 22:22354
interactions $\gamma + N \rightarrow \pi^0 + N_{33}^*(1236)$, current commutator for coupling constant and N_{33}^* magnetic moment from (T), 21:9735
interactions $\gamma + n \rightarrow \pi^0$ (eta) + n, strong absorptive Regge-cut model for, (T), 25:7597
interactions $\gamma + n \rightarrow \pi^0(\pi^-) + n(p)$ at 800 to 1200 MeV, amplitude relations of $\pi + N \rightarrow \pi$(eta) + N interactions with $\gamma + N$ interactions for angular distribution predictions for, 24:3591
interactions $\gamma + n \rightarrow \pi^+ + \Delta^-$, vector dominance model predictions for $\Delta(1236)$ production in, 23:51899
interactions $\gamma + N \rightarrow \pi^+ + n$ at 2 to 4 GeV, absorption correction in, (T), 22:41776
interactions $\gamma + N \rightarrow \pi^+ + N$ at high energies, multiple scattering corrections to, 23:27765 (NP-17871)
interactions $\gamma + N \rightarrow \pi^+ + N$ at high energies, π conspiracy residues and trajectories in, 22:37100 (IC-68/40)
interactions $\gamma + N \rightarrow \pi^+ + N$, exchange-degenerate conspirators in, 23:23428
interactions $\gamma + n \rightarrow \pi^+ + N^*$, peripheral model for test of vector dominance in, 24:52012
interactions $\gamma + n \rightarrow \pi^+ + p$ at 180 to 420 MeV, multipole analysis of, 25:45705
interactions $\gamma + n \rightarrow \pi^- + p$ at 2.6 to 6 GeV in deuterium bubble chamber, (E), 22:34827 (DESY-68/22)
interactions $\gamma + n \rightarrow \pi^- + p$ at 3 GeV/c, violation of quark model sum rules in, (T), 22:22363
interactions $\gamma + n \rightarrow \pi^- + p$ at 3.4 GeV, generalized Veneziano model for, 25:33636
interactions $\gamma + n \rightarrow \pi^- + p$ at 3.4 GeV, π^- production amplitudes in, (E/T), 23:13020
interactions $\gamma + n \rightarrow \pi^- + p$ at 3.4 GeV, test of vector dominance model from, (E), 23:5514
interactions $\gamma + n \rightarrow \pi^- + p$ at 300 to 1200 MeV, differential cross sections for, (E), 25:40859
interactions $\gamma + n \rightarrow \pi^- + p$ at 300 to 1200 MeV, differential cross sections for, (E), 25:30774 (INSJ-126)
interactions $\gamma + n \rightarrow \pi^- + p$ at 357 to 555 MeV, production asymmetry in, (E), 24:37603
interactions $\gamma + n \rightarrow \pi^- + p$ at 500 to 800 MeV in deuterium, proposal for scintillation counter study of cross sections for, (E), 22:37069 (NP-17458)
interactions $\gamma + n \rightarrow \pi^- + p$ at 550 to 900 MeV, spark chamber and scintillation counter telescope study of γ reactions $(\gamma,\pi^- p)$ with carbon-12 for proton polarization in, (E), 25:38635
interactions $\gamma + n \rightarrow \pi^- + p$ at 600 to 1250 MeV, spectrometer study of N^* production and differential cross sections for, (E), 24:26358
interactions $\gamma + n \rightarrow \pi^- + p$ at high energies, predictions for target asymmetry in, (T), 25:47775 (DESY-71/27)
interactions $\gamma + n \rightarrow \pi^- + p$ at high energies, review on, 23:27767 (SLAC-PUB-589)
interactions $\gamma + n \rightarrow \pi^- + p$ below 500 MeV, differential cross sections, asymmetry ratios, and recoil-nucleon polarization for, (T), 24:37682
interactions $\gamma + n \rightarrow \pi^- + p$ in symmetric quark model, baryon resonance contribution to differential cross section for, 23:27779
interactions $\gamma + n \rightarrow \pi^- + p$ in Veneziano model, cross sections for, 25:9717
interactions $\gamma + n \rightarrow \pi^- + p$ to 1.2 GeV, helicity-amplitude formalism for analysis of, (E/T), 23:42617
interactions $\gamma + n \rightarrow \pi^- + p$ using polarized γ, discrepancy between vector dominance model and π production in, (T), 23:15017
interactions $\gamma + n \rightarrow \pi^- + p$, angular distributions and differential cross sections of $\pi^- + p \rightarrow \gamma + n$ interactions at 1245 and 1337 MeV for test of predictions for, (E), 25:14567
interactions $\gamma + n \rightarrow \pi^- + p$, C-invariance violation in, 25:33792
interactions $\gamma + n \rightarrow \pi^- + p$, current algebra for divergence in, 21:42298
interactions $\gamma + n \rightarrow \pi^- + p$, differential cross sections at threshold for, (T), 23:39648
interactions $\gamma + n \rightarrow \pi^- + p$, differential cross sections of $\pi^- + p \rightarrow \gamma + n$ interactions at 490 MeV/c for Roper resonance production in, (E), 23:49027 (UCLA-34-P-106-42)
interactions $\gamma + n \rightarrow \pi^- + p$, dispersion theory model for analysis of exotic currents in, 25:40934
interactions $\gamma + n \rightarrow \pi^- + p$, octet assignment for N(1470) production in, (E), 24:10657
interactions $\gamma + n \rightarrow \pi^- + p$, production asymmetry for mesons (π^-) in, 23:10961(R) (NP-17704)
interactions $\gamma + n \rightarrow \pi^- + p$, π^-/π^+ cross section ratio in $\gamma + d \rightarrow \pi^-(\pi^+) + 2p(2n)$ interactions at 600 to 1700 MeV for cross sections of, (E), 25:14523
interactions $\gamma + n \rightarrow \pi^- + p$, quark model calculations of resonance contributions to cross sections for, (T), 24:3580
interactions $\gamma + n \rightarrow \pi^- + p$, Regge exchange models for relations among residue functions and differential cross sections for, (T), 25:1461
interactions $\gamma + n \rightarrow \pi^- + p$, Regge pole model for, 21:21165
interactions $\gamma + n \rightarrow \pi^- + p$, Regge pole model with diffractive correction for cross section ratios with $\gamma + p \rightarrow \pi^+ + n$ interactions, 24:1549
interactions $\gamma + n \rightarrow \pi^- + p$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + n \rightarrow \pi^- + p$, review of experiments and theory for, 22:11609 (NP-17221)

interactions $\gamma + n \rightarrow \pi^- + p$, review of N^* production in, (E/T), 23:49085
interactions $\gamma + n \rightarrow \pi^- + p$, strong absorptive Regge-cut model for, (T), 25:7597
interactions $\gamma + n \rightarrow \pi^- + p$, strong-absorption Regge-cut model for, 25:47783
interactions $\gamma + n \rightarrow \pi^- + p$, time reversal noninvariance in, (T), 25:41046
interactions $\gamma + n \rightarrow \pi^- + p$, vector dominance and quark model relation for polarization in, 22:41769 (DESY-68/33)
interactions $\gamma + n \rightarrow \pi^- + p$, vector dominance discrepancy in relation with $\pi^- + p \rightarrow$ rho^0 + n interactions for, 23:23408
interactions $\gamma + n \rightarrow \pi^- + p$, vector meson dominance in, 24:18137
interactions $\gamma + n \rightarrow \pi^- + p$, Veneziano model for cross sections, asymmetry ratios, and baryon residues in, (T), 25:40926
interactions $\gamma + N \rightarrow \pi^+ (\pi^-) + N$ near threshold, dispersion relations for, (E/T), 24:28472
interactions $\gamma + N \rightarrow \pi^- (\pi^+) + N$, evasive Regge poles and associated Regge cuts for finite-energy sum rules for, (T), 23:30738
interactions $\gamma + N \rightarrow \pi^- (\pi^+) + N$, evasive Regge poles and associated Regge cuts for finite-energy sum rules for, (T), 23:30738
interactions $\gamma + n \rightarrow \pi^-(\pi^0) + p(n)$ below 1 GeV, review of, (E/T), 23:39598
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + \Delta$ Coulomb couplings and Born-term analysis for, 25:30785
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + \Delta$, low t theorem formulation by minimal gauge invariant extension of π exchange in, 24:26391 (CALT-68-245)
interactions $\gamma + n \rightarrow \pi^-(\pi^+) + \Delta^+(1236)(\Delta^-(1236))$ at 16 GeV, differential cross sections for, 24:45413
interactions $\gamma + N \rightarrow \pi^-(\pi^+) + \Delta^{++}(\Delta^-)$, conspiracy and duality in model for forward cross sections of, (T), 25:3318
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$ and $\pi + N \rightarrow$ vector mesons + N, vector dominance predictions for relation between, 23:32651
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$ at low energies, current algebra for, (T), 25:7584 (DNPL/R-8)
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, low t theorem formulation by minimal gauge invariant extension of π exchange in, 24:26391 (CALT-68-245)
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, low-t theorems for, 24:40312
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, SU(3) x SU(3) with vector dominance and Regge pole model for sum rule for, 23:42609
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, SU(3) x SU(3) with vector dominance and Regge pole model for sum rule for, 23:42609
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, test of pure and absorptive Regge models from finite-energy sum rules for differential cross sections for, (T), 24:49372 (SINP-TH-69-8)
interactions $\gamma + N \rightarrow \pi^+(\pi^-) + N$, tests of Regge pole-cut models from differential cross sections of, (T), 25:22740
interactions $\gamma + N \rightarrow$ rho + Δ, minimal gauge-invariant one-vector-meson-exchange model for, 24:37696
interactions $\gamma + N \rightarrow$ rho + N, coherent, 24:35657
interactions $\gamma + N \rightarrow$ rho + N, differential cross sections for $\Delta(1950)$ and $\Delta(2420)$ production in, (T), 24:26393 (DESY-70/8)
interactions $\gamma + N \rightarrow$ rho^0 + N in nuclei, Glauber model for coherent production in, 24:18110 (CONF-690330-, pp 152-60)
interactions $\gamma + N \rightarrow$ rho^0 + N in nuclei, rho^0—N total cross section estimate from, 21:33712
interactions $\gamma + N \rightarrow$ rho^0 + N, dynamical effects of instability in, (T), 25:43604
interactions $\gamma + N \rightarrow$ rho^0 + N, modified vector dominance in algebra of vertex strengths for, 23:49095
interactions $\gamma + n \rightarrow$ rho$^-$ + p at threshold to 3.0 GeV, one-vector-meson-exchange model for rho$^-$ electromagnetic moments and cross sections for, 24:12995
interactions $\gamma + n \rightarrow$ rho$^-$ + p, rho-exchange contribution to differential cross sections for, 25:59385
interactions $\gamma + n \rightarrow$ rho$^-$ + p, vector meson exchange and rho$^-$ magnetic dipole and electric quadrupole moments for, (T), 23:42594
interactions $\gamma + N \rightarrow \Sigma + K$, use of current algebra and PCAC hypothesis for amplitudes of, 22:15715
interactions $\gamma + N \rightarrow$ vector meson + N, conspiracy relations in Regge-pole theory for, 22:34922
interactions $\gamma + N \rightarrow$ vector mesons + N in Regge pole theory, kinematic singularities and zeros for, (T), 22:44356
interactions $\gamma + n \rightarrow$ vector mesons + n, test of tensor meson dominance in SU(3)-symmetry breaking from, 25:33607
interactions γ + n above 1.2 GeV, data compilation on cross sections for hadron production in, (E), 25:12066 (DESY-HERA-70-1)
interactions γ + N above 100 GeV, feasibility of multibody production in, (E), 25:1369 (UH-511-81-70)
interactions γ + n above 2 GeV, review of, 24:21963
interactions γ + N at 0.4 to 1 GeV in emulsions, cross sections for, (E), 23:14944
interactions γ + n at 0.7 to 12 GeV in deuterium bubble chamber, isovector—isoscalar interference from partial cross sections for, (E), 25:14519
interactions γ + N at 1 to 3 GeV, angular distributions for forward π^+ production, (T), 22:20193
interactions γ + n at 1.15 to 6.25 GeV, scintillation counter study of total cross sections for hadron production from, (E), 24:51890
interactions γ + N at 10^{13} to 10^{14} eV, π production in, (E), 24:21913
interactions γ + N at 150 to 300 MeV, single π production by, (T), 23:1881 (ORNL-TM-2364)
interactions γ + N at 160 to 230 MeV, total cross sections for π^+ and π^- production in, 23:30729
interactions γ + N at 180 to 1000 MeV, amplitude relations with $\pi + N \rightarrow \pi$(eta) + N amplitudes, (T), 24:3591
interactions γ + N at 2.0 GeV/c, magnetic spectrometer and differential gas Cherenkov counter study of cross sections for e and μ production from, 21:33590
interactions γ + N at 2.0 to 3.0 GeV/c, magnetic spectrometer and differential gas Cherenkov counter study of cross sections for π^- and π^+ production from, 21:33590
interactions γ + N at 2.6 to 16 GeV, natural-spin—parity exchanges and cross section approximations for pseudoscalar meson and nucleon production in, (T), 24:26396
interactions γ + N at 300 to 800 MeV, isobar model of Compton, (T), 21:44330
interactions γ + N at 6 GeV, angular-defining counter study of wide-angle μ pair production in, (E), 22:22276 (CONF-670923-, pp 409-51)
interactions γ + N at 60 to 750 MeV, differential cross section for Compton, 22:13705
interactions γ + N at 60 to 750 MeV, nucleon electromagnetic structure from Compton, 22:13705
interactions γ + N at high energies and small momentum transfer, SU(3) symmetry and Regge pole model for pseudoscalar and neutral vector meson production in, 22:48347
interactions γ + N at high energies in SU(3) quark model, vector meson production in, (T), 25:9713
interactions γ + N at high energies, cross sections for baryon—antibaryon pair production in, (T), 24:42958
interactions γ + N at high energies, dispersive sum rules for amplitudes of π production in, 23:49077
interactions γ + N at high energies, effect of final-state interactions on properties of rho production in, 24:28513
interactions γ + N at high energies, forward π production from, (T), 21:35283
interactions γ + N at high energies, longitudinal distances in, (T), 23:51893
interactions γ + N at high energies, meson production in, 24:20114
interactions γ + N at high energies, model for partial waves for, 24:18185 (CONF-690330-, pp 181-7)
interactions γ + N at high energies, moving two-Reggeon cut contribution to amplitude of pseudoscalar meson production in, (T), 24:20179
interactions γ + N at high energies, multiple-scattering corrections to cross sections for π^+ production in, (T), 23:23411
interactions γ + N at high energies, quark model for total cross section relations for, (T), 25:14595 (ITF-70-63-P)
interactions γ + N at high energies, quark model for neutral vector meson production from, 21:21175
interactions γ + N at high energies, review of vector dominance model for hadron production from, (E/T), 24:6705
interactions γ + N at high energies, space—time picture of, 23:32671
interactions γ + N at high energies, sum rules in vector dominance model for integral of total cross section relation with meson—nucleon interactions, 22:46357 (JINR-E2-3926)
interactions γ + N at high energies, sum rules in vector dominance model for vector meson production in, 22:46357 (JINR-E2-3926)
interactions γ + N at high energies, test of CP violation in $\gamma \rightarrow 2\gamma$ transitions in pair production in, (T), 22:24699
interactions γ + N at high energies, test of cross section sum rules for nucleon magnetic moments from forward Compton, (T), 22:22347 (JINR-E2-3715)
interactions γ + N at low and intermediate energies, conference on meson production in, 24:26366
interactions γ + N at low energies, C violation in π production in, (T), 21:7485
interactions γ + N at low energies, dispersion relation-calculation of scattering amplitude for Compton, 22:20188
interactions γ + N at low energies, equal-time commutation relations and PCAC for total amplitude of 2π production in, 22:29666
interactions γ + N at low energies, Kroll—Ruderman theorem and Born approximation for p-wave multipoles for π production in, 25:9724
interactions γ + N at low energies, Panofsky ratio and SU(6) for π production from, 21:9751
interactions γ + N at low energy, equal-time commutators for π production in, 25:7606
interactions γ + N at nucleon resonance, determination of real part of amplitude for Compton, 24:26390 (AD-694033)
interactions γ + N at threshold to 1.5 GeV, collection of data for differential cross sections, recoil polarization, and asymmetry ratio for π production in, (E), 25:38632 (CERN-HERA-70-1)
interactions γ + N below 1.5 GeV, graphs and tables for π production from, (E), 21:15251 (CALT-68-108)
interactions γ + N below 1.5 GeV, review of experiments and theory for single π production in, 22:32089
interactions γ + N below 2.0 GeV, generalized interference model for eta production in, 23:46645
interactions γ + N below 400 Mev, $\pi\pi$ phase shift for Compton, (T), 23:13065
interactions γ + N below 6 GeV, magnetic spectrometer and differential gas Cherenkov counter study of high-mass Y^* production in K excitation functions for, 21:33590
interactions γ + N below meson rest energy, harmonic meson production from, (T), 21:896
interactions γ + N from inelastic e + N interactions, Pomeranchuk exchange contribution to virtual Compton, 23:27780
interactions γ + n in e + d interactions at high energies, cross sections for particle production in, (E), 25:56405 (DESY-71/33)
interactions γ + N in nuclei, dispersion sum rule for anomalous magnetic moment of nucleon from, 21:33657
interactions γ + N in O(3,1) symmetry, high-energy behavior of forward Compton, 22:24705
interactions γ + N in O(4) symmetry, exchange of odd-parity Regge trajectories for forward peaks in, 21:33777
interactions γ + N in oxygen-16, impulse approximation for meson (π^+) production from, (T), 21:35427
interactions γ + N in Regge pole model, helicity amplitudes for forward Compton, 21:37751
interactions γ + N in Regge pole theory, cross-section relations for π, eta, and K production in, 22:17905
interactions γ + N in resonance region, single π production in, 24:24277
interactions γ + N in strong electromagnetic field, final-state interaction for electron production in (T), 25:43606
interactions γ + N in SU(3) quark model, pseudoscalar-meson production in, (T), 25:3321
interactions γ + N in Veneziano model, off-shell single-current amplitude for charged π production in, 25:9725
interactions γ + n near threshold, π^0 production in, 22:20182
interactions γ + N of polarized, multipole amplitudes from analyses of cross sections for π^+ production in, 24:1538
interactions γ + N, amplitude for vector meson production from, (T), 21:4016
interactions γ + N, analysis of dispersion relations for Compton, 23:8776
interactions γ + N, analysis of experimental tests of vector meson dominance in π and rho^0 production in, 23:46646
interactions γ + N, angular correlations for pseudoscalar meson production in, (T), 22:24579
interactions γ + N, annihilation amplitude for vector meson production in, (T), 25:50103
interactions γ + N, anomalous real parts of amplitude for ω production and elastic, 25:45704
interactions γ + N, Bethe—Salpeter wave function with single nucleon and meson (π) exchange γNN^*-transition potentials for $\Delta(1236)$ production amplitudes in, 23:51879 (DESY-69/33)
interactions γ + N, Bjorken limit for Compton, 24:47405
interactions γ + N, C and T noninvariance and quantum electrodynamics deviations for wide-angle electron pair production from, 21:40274
interactions γ + N, chiral SU(2) x SU(2) Lagrangians for π production in, 23:18916
interactions γ + N, classical charge-symmetric field theory for cross sections for scalar meson production in, (T), 25:59338
interactions γ + N, conspiracy relations for, 22:44406
interactions γ + N, contribution from Compton graph to cross section for lepton pair production in, (T), 22:24588
interactions γ + N, cosmic-ray properties from μ + N inelastic interactions from validity of Weizsaker—Williams approximation for absorption in, 24:3607
interactions γ + N, coupling constants for axial vector, (T), 21:7478(R) (COO-1371-36)
interactions γ + N, current algebra for pion pair production in, 23:13098
interactions γ + N, current commutation algebra for meson production near threshold from, 21:29482
interactions γ + N, cut conspiracy and π evasion in π^+ and π^- production in, 23:18918
interactions γ + N, derivative amplitudes for π production, 25:28000
interactions γ + N, deuteron form factors from π^0 production, 21:42387
interactions γ + N, differential cross sections and finite-energy sum rules for π production in, (T), 23:5615
interactions γ + N, differential cross sections for π production in, (T), 25:30801
interactions γ + N, dispersion analysis of multipole amplitudes of meson (π) production in, 23:36876
interactions γ + N, dispersion relation calculation of $\Delta(1236)$ resonant partial amplitude for π production in, 22:34906
interactions γ + N, dispersion sum rule for spin effects on, 21:33657
interactions γ + N, dispersion sum rules for Compton, 21:37749
interactions γ + N, dispersion sum rules in static model for virtual π production from, (T), 22:1449
interactions γ + N, Drell—Herne—Gerasimov sum rules for absorption, 22:3333
interactions γ + N, duality and fixed poles in π production from, (T), 24:28519
interactions γ + N, electric dipole amplitudes and p-wave amplitudes for π^+ and π^- production in, (E), 23:14938
interactions γ + N, electromagnetic current SU(3) structure in relations among differential cross sections in quark model for neutral vector meson production in, (T), 25:1443 (ITF-70-41)
interactions γ + N, electromagnetic form factor of γNN^* vertices for, 21:2431
interactions γ + N, energy dependence of partial cross sections for multiple π production in, (T), 24:42904
interactions γ + N, equal-time commutators of current operators in renormalized perturbation theory for, 22:39332
interactions γ + N, equal-time commutators of renormalized current operators in perturbation theory without cutoff for, 21:44302 (DESY-67/26)
interactions γ + N, exact sum rules for Compton, 21:9743

interactions $\gamma + N$, field theoretical basis for weak-interaction theory for, (t), 25:59397
interactions $\gamma + N$, final-state interactions and T-violating effects in single π production in, 24:24412
interactions $\gamma + N$, finite-energy sum rules for Compton, 22:26603
interactions $\gamma + n$, fits to differential cross sections for π production in, 25:9727
interactions $\gamma + N$, fixed poles and dip mechanisms for s-channel helicity conservation in Compton, (T), 24:49520
interactions $\gamma + N$, fixed poles for π production in, 24:18128
interactions $\gamma + N$, fixed poles in π^+ and π^- production in, (T), 23:44620
interactions $\gamma + N$, gauge-invariance constraints on Regge amplitude for π production in, 22:22365
interactions $\gamma + N$, generalized Ward—Takahashi identities and current algebra for soft meson production from, 22:13681
interactions $\gamma + N$, hadron production in final-state, (T), 23:49121
interactions $\gamma + N$, hard photon radiative correction for wide-angle electron pair production from, 21:17088
interactions $\gamma + N$, higher-order low-energy theorems for Compton, 22:26595
interactions $\gamma + N$, hypothesis of narrow-resonance duality for conspiracy or absorption mechanism of production, 25:33606
interactions $\gamma + N$, integer quark charge for pseudoscalar and vector meson production from, 21:15379
interactions $\gamma + N$, interference effects in rho^0 production by, 21:37741
interactions $\gamma + N$, invariant amplitudes and low-energy theorem for Compton, 23:25550
interactions $\gamma + N$, invariant amplitudes for Compton, (T), 22:50340
interactions $\gamma + N$, invariant amplitudes for π production, (T), 22:50340
interactions $\gamma + N$, invariant amplitudes for rho and ω production, 21:17078
interactions $\gamma + N$, isobar model for π production from, 21:2421
interactions $\gamma + N$, joint production of baryon and meson resonances in, 24:18209
interactions $\gamma + N$, kinematic structure of vector dominance model in, (T), 24:40325
interactions $\gamma + N$, leptonic quark production from, (E), 21:37655 (DESY-67/20)
interactions $\gamma + N$, low-energy theorem without C, P, and T invariance for Compton, 23:36869
interactions $\gamma + N$, low-energy theorems and invariant amplitudes for Compton, 22:50324
interactions $\gamma + N$, low-energy theorems for amplitudes of forward Compton, 22:46358
interactions $\gamma + N$, low-energy theorems for Compton, 24:8606
interactions $\gamma + N$, low-energy theorems for Compton, 22:15725
interactions $\gamma + N$, low-energy theorems for Compton, 22:34905
interactions $\gamma + N$, low-energy theorems in S-matrix theory for π production in, 22:34930
interactions $\gamma + N$, low-energy theorems to e^4 order for Compton, 22:48272
interactions $\gamma + N$, mass-dispersion and current algebra theory for double-π production in, (T), 23:10778
interactions $\gamma + N$, method for studying resonances in meson production, 24:28507
interactions $\gamma + N$, models in SU(4) for pseudoscalar and vector meson production from, 21:35326
interactions $\gamma + N$, multiple Pomeranchuk-trajectory exchange in Compton, 24:13003
interactions $\gamma + N$, multipole analysis of amplitudes for π production in, 24:52031
interactions $\gamma + N$, multipole analysis of π^+ production from, (T), 24:3581
interactions $\gamma + N$, N form factors from analysis of cross sections for elastic, 24:24284
interactions $\gamma + N$, N—N* exchange degeneracy from gauge invariance and duality for π production in, 24:5271
interactions $\gamma + N$, nondynamical structure of, (T), 21:11760
interactions $\gamma + N$, nonleading Regge behavior and fixed poles with polynomial residues in Compton, 25:59381
interactions $\gamma + N$, nucleon magnetic moment from, (T), 25:5383
interactions $\gamma + N$, particle interaction constants from amplitudes of, (T), 22:13698
interactions $\gamma + N$, PCAC restrictions on π-production amplitudes in, 21:9747
interactions $\gamma + N$, phases and forward cross sections for rho^0, ω, and phi production in, (T), 25:3319
interactions $\gamma + N$, photoabsorption sum rules in nonrelativistic quark model for, (T), 24:42970
interactions $\gamma + N$, pion-gauge conditions for N* production in, 24:5268
interactions $\gamma + N$, polarization effects in ω^0 production in, 22:15726
interactions $\gamma + N$, Pomeranchuk trajectory and fixed poles in amplitude for virtual, 25:33648
interactions $\gamma + N$, Pomeranchuk-exchange contribution to forward vector-meson-production, 21:37743
interactions $\gamma + N$, pseudoscalar meson production in, (E), 24:24278
interactions $\gamma + N$, π conspiracy and residue from finite-energy sum rule for π production in, 22:44365
interactions $\gamma + N$, π production in, 23:13055
interactions $\gamma + N$, quark model for pseudoscalar meson production in, 22:32125
interactions $\gamma + N$, quark model for π production in, 22:50336
interactions $\gamma + N$, radiative correction to π^+ production in, 23:3666
interactions $\gamma + N$, reconstruction of forward scattering matrix amplitude for, 21:37802 (JINR-P2-3374)
interactions $\gamma + N$, reconstruction of matrix amplitudes for forward, 22:20245
interactions $\gamma + N$, Regge cut model for π^0 production in, 23:18852
interactions $\gamma + N$, Regge model with scale invariance for Compton, 25:38704
interactions $\gamma + N$, Regge parametrization for π and K production, 23:18858
interactions $\gamma + N$, Regge pole absorption theory for dip structure mechanism for meson and nucleon production in, (T), 25:53185
interactions $\gamma + N$, Regge pole conspiracy in π^- and π^+ production in, 22:20197
interactions $\gamma + N$, Regge pole model for hadron production from, (T), 25:14635 (NYO-4204-9)
interactions $\gamma + N$, Regge pole theory for particle production in, 24:20158
interactions $\gamma + N$, review of, 24:37678 (SLAC-PUB-746)
interactions $\gamma + N$, review of experimental data for SU(3) symmetry predictions for neutral vector and pseudoscalar mesons production in, 22:37175 (CONF-670725-, pp 56-73)
interactions $\gamma + N$, review of forward peak in inelastic, 22:39265 (CERN-68-7(Vol.1), pp 60-110)
interactions $\gamma + N$, review of gauge invariance for amplitudes of particle production in, (T), 25:53073
interactions $\gamma + N$, review of hadron production in, 24:18106 (CERN-69-29, pp 47-60)
interactions $\gamma + N$, review of nucleon and nonstrange pseudoscalar and vector meson production in, 24:18070
interactions $\gamma + N$, review of particle production in, (E), 23:23330
interactions $\gamma + N$, review of particle production from, (E/T), 23:51876 (DESY-69/21)
interactions $\gamma + N$, review of π and vector meson production from, 22:15713 (DESY-67/43)
interactions $\gamma + N$, review of π production from, 22:1403 (SLAC-PUB-355)
interactions $\gamma + N$, review of research on, 21:29421
interactions $\gamma + N$, review of research on π production in, (E/T), 23:8768 (TID-24667, pp 523-40)
interactions $\gamma + n$, review of vector dominance model for hadron production in, 23:27764 (DESY-69/10)
interactions $\gamma + N$, review of vector dominance model for vector-meson production in, (T), 25:53076
interactions $\gamma + N$, review of vector meson dominance in hadron production in, (E/T), 25:1361 (DESY-70/31)
interactions $\gamma + N$, review of vector-meson dominance model for pseudoscalar meson production in, 24:8582 (DESY-69/41)
interactions $\gamma + N$, rho dominance hypothesis for Compton, 22:46358
interactions $\gamma + N$, rho—ω interference in 3π and l^+l^- production in, 24:32990
interactions $\gamma + N$, s-channel helicity in virtual Compton, 25:33640
interactions $\gamma + N$, s-channel transformation matrices for helicity and invariant amplitudes for pseudoscalar meson and baryon production in, (T), 25:50093 (ORO-3992-37)
interactions $\gamma + N$, saturation of current-algebra and superconvergence-relations sum rules for amplitudes of, 23:42629
interactions $\gamma + N$, scaling and duality in, 25:30787
interactions $\gamma + n$, scintillation counter study of $\gamma + p$ and $\gamma + d$ interactions at 1.0 to 6.4 GeV for total cross sections of, (E), 24:40226 (DESY-70/17)
interactions $\gamma + N$, space-time picture for longitudinal distances in, 23:49093
interactions $\gamma + N$, spin independence of Pomeron in vector meson and nucleon production in, 24:40398
interactions $\gamma + N$, status and perspectives of experiments on pseudoscalar and vector meson production in, 23:10777 (CALT-68-171)
interactions $\gamma + N$, Stichel theorem for pseudoscalar meson production in, (T), 25:17439
interactions $\gamma + N$, strange-particle and baryon resonance production in, 21:17080
interactions $\gamma + N$, SU(3) symmetry and Regge pole model for meson production with baryon resonances in, 22:48347
interactions $\gamma + N$, SU(6) symmetry for meson production in, 21:17080
interactions $\gamma + N$, sum rules for amplitude of Compton, 22:34925
interactions $\gamma + N$, sum rules for amplitudes in Compton, 21:29635 (JINR-P2-3301)
interactions $\gamma + N$, sum rules for Compton, 21:18957
interactions $\gamma + N$, sum rules for Compton, 21:18956
interactions $\gamma + N$, sum rules for Compton effect amplitudes for, 22:13700
interactions $\gamma + N$, sum rules for γNN vertex and Roper resonance coupling to γ—N system for, 24:10724
interactions $\gamma + N$, sum rules for virtual, 24:24315
interactions $\gamma + N$, sum rules relating anomalous nucleon magnetic moment and amplitude for π production in, 22:37103
interactions $\gamma + N$, superconvergence and current algebra for production amplitude of, 22:20176
interactions $\gamma + N$, superconvergence and current algebra relations for Compton, 22:34931
interactions $\gamma + N$, superconvergence in pion-production, 21:21172
interactions $\gamma + N$, superconvergence sum rules and SU(6) for π and N_{33}* production from, 21:31621
interactions $\gamma + N$, superconvergent sum rules for Compton, 21:33646
interactions $\gamma + N$, superconvergent sum rules for eta^0 production in, 22:50323
interactions $\gamma + N$, symmetry and quark structure of currents for sum rules for amplitudes of π production from, 21:21154 (JINR-P2-3195)
interactions $\gamma + N$, T invariance in N* (1238) production in, (T), 21:954
interactions $\gamma + N$, t-channel transformation matrices for helicity and invariant amplitudes for pseudoscalar meson and baryon production in, (T), 25:50092 (ORO-3992-33)
interactions $\gamma + N$, test of cross-section sum rules for nucleon magnetic moments from, 22:37101
interactions $\gamma + N$, test of validity of current and field algebra commutators from multipole analysis of production amplitudes in, (T), 25:40916 (LNF-70/56)
interactions $\gamma + N$, test of vector dominance model from π^+ and π^- production in, 22:52964 (DESY-68/44)
interactions $\gamma + N$, tests of vector dominance model in pseudoscalar meson production in, (E), 25:52998
interactions $\gamma + N$, theory for N*(1236) production from, 21:18938 (DESY-67/1)
interactions $\gamma + N$, theory of N* (1236) production in, 21:46514
interactions $\gamma + N$, threshold and asymptotic cross sections for W and electron production in, (T), 25:1441 (IFVE-SVM-70-2)
interactions $\gamma + N$, threshold theorem for vector meson production in, 23:44627
interactions $\gamma + n$, total cross sections for $\gamma + p$ and $\gamma + d$ interactions at 3.7 to 17.9 GeV for total cross sections of, (E), 24:45410
interactions $\gamma + N$, use of chiral dynamics for high-spin baryons for double-pion production in, 23:3780
interactions $\gamma + N$, use of diagonal frame in tests of vector meson dominance for π production in, 24:37692
interactions $\gamma + N$, use of gauge invariance in formalism of covariant Reggeization for π production in, (T), 24:20104
interactions $\gamma + N$, use of MIT and Saclay electron linacs for studying π production in, 23:8718 (TID-24667, pp 580)
interactions $\gamma + N$, validity of sum rules and high energy theorem for, 22:9605
interactions $\gamma + N$, variational methods for determining N*(1236) radiative width in, 21:37825
interactions $\gamma + N$, vector dominance model predictions for π^+ and π^- production using polarized γ in, (T), 23:13062
interactions $\gamma + N$, vector dominance model with polarization for amplitudes of, 22:24582 (DESY-68/4)
interactions $\gamma + N$, vector meson dominance and mass dependence of amplitudes for π production in, 25:22743
interactions $\gamma + N$, vertex-strength algebra for vector-meson production in, 23:5577
interactions $\gamma + \nu \rightarrow \nu + \nu + \text{anti } \nu$, propagation of electromagnetic waves in degenerate neutrino sea through, 24:26398
interactions $\gamma + \nu$, zero-rest mass for weak, 22:32103
interactions $\gamma + p \rightarrow 2\pi + p$ at high energies, determination of $\pi\pi$ scattering phase shifts from, (T), 25:9767
interactions $\gamma + p \rightarrow A_1^0 + p$, Primakoff effect in, (T), 24:47414
interactions $\gamma + p \rightarrow$ anti K + K + p, mass distributions in anti KK system for, 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \rightarrow$ anti n + d at 4.6 to 5.7 GeV, upper limit on cross section for, (E), 21:44247
interactions $\gamma + p \rightarrow$ baryon + meson in quark model, sum rules for, 21:29483
interactions $\gamma + p \rightarrow$ baryon resonance + vector meson, off-mass-shell amplitudes for, 21:17077
interactions $\gamma + p \rightarrow \Delta(1236) + \pi$ below 1 GeV, single meson (π) diagram and N(1518) exchange in s-channel for cross sections and asymmetry in, 24:1548
interactions $\gamma + p \rightarrow \Delta(1236) + \pi^-$ at 4.8 to 6.0 GeV, $\Delta(1236)$ production cross sections and decay angular distributions from, (E), 22:5490
interactions $\gamma + p \rightarrow \Delta^0 + \pi^+$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow \Delta^{++} + \pi^- \rightarrow p + \pi^+ + \pi^-$ below 0.8 GeV, (T), 22:34896 (DESY-68/7)
interactions $\gamma + p \rightarrow \Delta^{++} + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow \Delta^{++} + \pi^-$ below 5.8 GeV, density matrix elements and spin population resonance parameters in, (E/T), 25:9678
interactions $\gamma + p \rightarrow \Delta^{++} + \pi^-$ to 1.8 GeV, intermediate isobar model for, (E/T), 23:23405
interactions $\gamma + p \rightarrow \Delta^{++}(1236) + \pi^-$ at low energies, (T), 23:5567
interactions $\gamma + p \rightarrow$ eta + p at 0.8 to 1.1 GeV, counter—spark chamber study of recoil proton polarization in, (E), 25:17354
interactions $\gamma + p \rightarrow$ eta + p at 4 and 6 GeV, Cherenkov counter study of differential cross sections of forward, (E), 25:1372
interactions $\gamma + p \rightarrow$ eta + p at 4 and 6 GeV, Veneziano model for, (T), 25:9712
interactions $\gamma + p \rightarrow$ eta + p at 4 to 6.5 GeV, model of Regge-pole exchange with cut interference for, (E/T), 24:37709
interactions $\gamma + p \rightarrow$ eta + p at 4 to 9 GeV, cross sections for, (E), 24:51904 (SLAC-124)
interactions $\gamma + p \rightarrow$ eta + p at 4 to 9 GeV, spectrometer study of energy dependence of cross sections for, (E), 25:43529
interactions $\gamma + p \rightarrow$ eta + p at 775 to 850 MeV, Cherenkov counter study of angular distribution for, (E), 22:20117
interactions $\gamma + p \rightarrow$ eta + p at 800 to 1000 MeV, cross sections for, (E), 21:3974
interactions $\gamma + p \rightarrow$ eta + p at high energies, poles and cuts in model for, 24:21953 (ITF-70-2)

interactions $\gamma + p \rightarrow$ eta + p below 1 GeV/c, $S_{11}(1530)$ production in, (T), 25:59514
interactions $\gamma + p \rightarrow$ eta + p from threshold to 970 MeV, S-matrix analysis of amplitudes for, 22:3338
interactions $\gamma + p \rightarrow$ eta + p, cross section for, (T), 22:22359
interactions $\gamma + p \rightarrow$ eta + p, poles and resonances in, (T), 21:44317
interactions $\gamma + p \rightarrow$ eta + p, Reggeized absorption model fits to, 25:56458
interactions $\gamma + p \rightarrow$ eta + p, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \rightarrow$ eta + p, review of resonance production in, 21:29481
interactions $\gamma + p \rightarrow$ eta + p, S-wave resonance (1560) in, 21:15286
interactions $\gamma + p \rightarrow$ eta^0 + n at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + p \rightarrow$ eta^0 + p at 1.465 to 1.815 GeV, cross sections for, (E), 25:14522
interactions $\gamma + p \rightarrow$ eta^0 + p at 5.0 to 10 GeV, cross sections for, (E), 25:14524
interactions $\gamma + p \rightarrow$ eta^0 + p at 6 to 16 GeV, cross sections for, (E), 22:41726
interactions $\gamma + p \rightarrow$ eta^0 + p at threshold to 950 MeV, differential cross sections for, (E), 21:9693
interactions $\gamma + p \rightarrow$ eta^0 + p, differential cross sections for, (E), 21:9694
interactions $\gamma + p \rightarrow$ eta^0 + p, peripheral model predictions for cross sections for, 24:1553
interactions $\gamma + p \rightarrow$ eta^0(rho^0) + p at 6 to 18 GeV, cross sections for backward, (E), 23:49031
interactions $\gamma + p \rightarrow \gamma + p$ above 5 GeV, differential cross sections for inelastic diffractive Compton, (T), 25:3308 (DESY-70/45)
interactions $\gamma + p \rightarrow \gamma + p$ at 300 MeV, spark chamber and scintillation counter study of cross sections for Compton, (E), 22:11577
interactions $\gamma + p \rightarrow \gamma + p$ at 40 to 75 GeV, proposed experiment for Compton, 24:51887 (TID-25473(Vol.4) , pp 161-9)
interactions $\gamma + p \rightarrow \gamma + p$ at 5 to 17 GeV, cross sections for, (E), 25:1380
interactions $\gamma + p \rightarrow \gamma + p$ at 5 to 7 GeV, cross sections for Compton, (E), 25:1371
interactions $\gamma + p \rightarrow \gamma + p$ at 550 to 1130 MeV, differential cross sections for Compton, (E), 22:15750
interactions $\gamma + p \rightarrow \gamma + p$ at 6 GeV and small momentum transfers, differential cross sections for, (E), 25:3309 (DESY-70/46)
interactions $\gamma + p \rightarrow \gamma + p$ at 600 to 850 MeV, differential cross sections for Compton effect in, (E), 25:7532
interactions $\gamma + p \rightarrow \gamma + p$ at 90° in first resonance region, cross section for Compton, (E), 23:3632
interactions $\gamma + p \rightarrow \gamma + p$ at high energies, cross sections for inelastic diffractive Compton, (T), 25:22737
interactions $\gamma + p \rightarrow \gamma + p$ at high energies, space—time picture of, 23:32671
interactions $\gamma + p \rightarrow \gamma + p$ at high energies, vector meson dominance and quark model for, 24:49379
interactions $\gamma + p \rightarrow \gamma + p$ in deep inelastic e + p current interactions, field theory for amplitudes of Compton, (T), 25:59363
interactions $\gamma + p \rightarrow \gamma + p$, continuous-moment sum rules for Compton, (T), 25:12207
interactions $\gamma + p \rightarrow \gamma + p$, continuous-moment sum rules for Regge parameters and $J = 0$ singularity in spin-averaged forward Compton amplitude of, 24:24268
interactions $\gamma + p \rightarrow \gamma + p$, lower bounds for amplitude of forward Compton, (T), 24:26403
interactions $\gamma + p \rightarrow \gamma + p$, quark model extension for total and differential cross sections for, (T), 25:59378
interactions $\gamma + p \rightarrow \gamma + p$, sum rules and bounds for forward Compton, (T), 24:26403
interactions $\gamma + p \rightarrow \gamma + p$, vector dominance model for, 23:36870
interactions $\gamma + p \rightarrow K + \Sigma(\Lambda)$ at high energies, tests of Regge-pole and strong-absorption models for, (T), 25:12206
interactions $\gamma + p \rightarrow K^*(890) + \Lambda(\Sigma)$, Regge pole model for, 23:15024
interactions $\gamma + p \rightarrow K^0 + \Sigma^+$ at 1.3 to 1.5 GeV in emulsion, cross sections and quark model predictions for, 21:35251
interactions $\gamma + p \rightarrow K^0 + \Sigma^+$ up to 5 GeV, cross sections for $K_2{}^0$ production in, (E), 23:23337
interactions $\gamma + p \rightarrow K^- +$ baryon at 3.6 to 6.0 GeV, differential cross section for $S = +1$ baryon states from, (E), 23:5565
interactions $\gamma + p \rightarrow K^+ + K^- + p$ at 5 to 16 GeV, cross sections for ω production in, (E), 23:21038
interactions $\gamma + p \rightarrow K^+ + K^- + p$ in dual-resonance model, diffractive, 24:35630
interactions $\gamma + p \rightarrow K^+ + \Lambda$ and $\gamma + p \rightarrow K^+ + \Sigma^0$ at 2.88 to 6.1 GeV, ratio of cross sections for, (E), 22:11570
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1 and 2 GeV, KAN coupling constant from differential cross sections for backward, (E), 25:52992 (LAL-RI-71-3)
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1 GeV, Λ polarization and differential cross sections for, (E), 24:45406
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1 to 1.12 GeV, magnetic spectrometer study of Λ polarization from, (E), 22:3250
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1.054 to 1.160 GeV and 45 to 90°, spectrometer and scintillation counter study of Λ polarization and monopole analysis for upper limit for width of $S_{11}(1710)$ in, (E), 24:21909 (INSJ-113)
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1.1 to 1.3 GeV, counter telescope study of Λ polarization and differential cross section for, (E), 21:37662
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1.3 GeV, differential cross sections for, (E), 25:5253
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 1.61 to 1.82 GeV, resonant amplitudes in, (E/T), 21:5369
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at 5 to 16 GeV, cut conspiracy and K evasion in, (T), 23:44622
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at low and intermediate energies, isobar analysis of ΛKN coupling constants from, 25:14627
interactions $\gamma + p \rightarrow K^+ + \Lambda$ at threshold to 2.0 GeV, multipole analysis of, (E/T), 25:9728
interactions $\gamma + p \rightarrow K^+ + \Lambda$ divergence conditions for, 21:33640 (JINR-E2-3364)
interactions $\gamma + p \rightarrow K^+ + \Lambda$, coherent-droplet model for, (T), 22:9539
interactions $\gamma + p \rightarrow K^+ + \Lambda$, PCAC and SU(3) x SU(3) current algebra for, 23:7161
interactions $\gamma + p \rightarrow K^+ + \Lambda$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + p \rightarrow K^+ + \Lambda(1405)$ ($\Lambda(1520)$) at 1 to 2 GeV, upper limits for cross sections for, (E), 24:40228 (LAL-1236)
interactions $\gamma + p \rightarrow K^+ + \Lambda(1405)$ at 1.485 GeV, differential cross sections for, (E), 22:9498
interactions $\gamma + p \rightarrow K^+ + \Lambda(1520)$ at 1.730 GeV, differential cross sections for, (E), 22:9498
interactions $\gamma + p \rightarrow K^+ + \Lambda(1520)$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma)$ above 3 GeV, review of experiments on, 22:22274 (CONF-670923-, pp 309-36)
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma)$ at 1 to 2 GeV, differential cross sections for, (E), 24:40228 (LAL-1236)
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma)$, conspiracy and evasion in, 22:37113
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma)$, moving cut contributions to amplitude for, 23:34565
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 1.19 to 1.68 GeV, differential cross sections for, (E), 25:17361
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 4.3 GeV, cross sections and Σ^0/Λ ratio for backward, (E), 23:51834
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 5 to 15 GeV, 24:10655
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, cross sections and Σ^0/Λ ratio for, (E), 23:49032
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, duality and Regge cuts in model for, 25:17424
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, magnetic spectrometer study of cross sections for, (E), 23:30696
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \rightarrow K^+ + \Lambda(\Sigma^0)$, review of N* production in, (E/T), 23:49085
interactions $\gamma + p \rightarrow K^+ + \Lambda^0$ (Σ^0) at 3.4 to 5.0 GeV, gas Cherenkov counter study of cross sections for, (E), 22:9502
interactions $\gamma + p \rightarrow K^+ + \Lambda^0$ at 0.950 GeV, differential cross sections for, (E), 22:9498
interactions $\gamma + p \rightarrow K^+ + \Lambda^0$ at 1.06 to 1.16 GeV, Λ^0 polarization in, (E), 24:20272(R) (NP-18091)
interactions $\gamma + p \rightarrow K^+ + \Lambda^0$ at 1000 to 1170 MeV, differential cross sections for K^+ production in, (E), 24:26357 (INSJ-115)
interactions $\gamma + p \rightarrow K^+ + \Lambda^0$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423
interactions $\gamma + p \rightarrow K^+ + \Sigma$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow K^+ + \Sigma(1385) + \Lambda(1405)$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + p \rightarrow K^+ + \Sigma(1385)$ at 1 to 2 GeV, upper limits for cross sections for, (E), 24:40228 (LAL-1236)
interactions $\gamma + p \rightarrow K^+ + \Sigma(1385)$ at 1.445 GeV, differential cross sections for, (E), 22:9498
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ (Λ^0), multiple scattering corrections to additive quark model predictions of ratio for, 24:10722
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at 1.080 GeV, differential cross sections for, (E), 22:9498
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at 1.45 GeV, differential cross sections for, (E), 25:5253
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at 11 GeV, cross sections for, (E), 25:25285
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at 1180 MeV, differential cross sections for K^+ production in, (E), 24:26357 (INSJ-115)
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at low and intermediate energies, isobar analysis of ΣKN coupling constants from, 25:14627
interactions $\gamma + p \rightarrow K^+ + \Sigma^0$ at threshold to 2.0 GeV, multipole analysis of, (E/T), 25:9728
interactions $\gamma + p \rightarrow K^+ + \Sigma^0(\Lambda)$ at 5 to 16 GeV, SU(6)/sub w/ predictions of cross sections for, 23:5575
interactions $\gamma + p \rightarrow K^+ + \Sigma^0(\Lambda^0)$ at 5 to 16 GeV, Σ^0/Λ^0 ratio from analysis of K^*—K^{**} exchange, 25:25370
interactions $\gamma + p \rightarrow K^+ + Y$ at high energies in Regge pole model, 23:32664
interactions $\gamma + p \rightarrow K^+ + Y^{**}$ at 4 to 6 GeV, K^+ and Y^* production in, (E), 23:1584
interactions $\gamma + p \rightarrow K^- + Z^{*++}$ at 4 to 6 GeV, K^- and Z^* production in, (E), 23:1584
interactions $\gamma + p \rightarrow K^- + Z^{++}$, missing-mass spectrometer study of, (E), 24:8556
interactions $\gamma + p \rightarrow l^+ + l^-$, corrections to cross sections for C-noninvariant, (T), 22:17901
interactions $\gamma + p \rightarrow \Lambda + K^0 + \pi^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Lambda + K^+ + \pi^0$ (π^0 ...) below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Lambda + K^+ + \pi^+ + \pi^-$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Lambda + K^+$ and $\gamma + p \rightarrow \Sigma^0 + K^+$ near threshold, angular dependence of cross sections for, (T), 23:7110
interactions $\gamma + p \rightarrow \Lambda + K^+$ at backward angles, anomalous magnetic moment of Λ and Regge pole exchanges in, 24:42900
interactions $\gamma + p \rightarrow \Lambda + K^+$ at high energies, Regge-pole model for, 22:17904
interactions $\gamma + p \rightarrow \Lambda + K^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Lambda + K^+$ near threshold, cross sections for, (T), 23:7110
interactions $\gamma + p \rightarrow \Lambda(\Sigma^0) + K^+$, quark model for cross sections for, 22:50336
interactions $\gamma + p \rightarrow \Lambda(\Sigma^0) + K^+$, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + p \rightarrow \Lambda^0 + K + \pi$ at 1 to 6 GeV in hydrogen bubble chamber, $Y_1{}^*$ (1382) and K^* (890) production in, (E), 21:29424
interactions $\gamma + p \rightarrow \Lambda^0 + K^+$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \rightarrow \mu^- + \mu^+ + p$ at 850 MeV, scintillation counter telescope study of cross section of, (E), 22:22288
interactions $\gamma + p \rightarrow \mu^- + \mu^+ + p$, test of quantum electrodynamics from, (E), 23:10739
interactions $\gamma + p \rightarrow \mu^- + \mu^+ + p$, test of quantum electrodynamics from asymmetry of μ pairs in, (E), 22:39232 (AD-668169)
interactions $\gamma + p \rightarrow n + \pi^+$ at 1.2 to 3 BeV, differential cross sections for meson (π) production from, (E), 21:2347
interactions $\gamma + p \rightarrow n + \pi^+$ at threshold to 500 MeV, multipole analysis of, (T), 25:19957
interactions $\gamma + p \rightarrow n + 2\pi^+ + \pi^-$ at 5.25 GeV in hydrogen bubble chamber, $A_2{}^+$ production in, (E), 24:3502
interactions $\gamma + p \rightarrow N + n\pi$ up to 12 GeV, cross sections for, (E), 23:5517
interactions $\gamma + p \rightarrow N + \pi$, comparison of $\pi + p \rightarrow N + \pi$ interactions with, 25:40935
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^0$, proposed test for isotensor current from, (E/T), 24:49368 (NYO-4076-8)
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^0$, test for presence of isotensor current from, 24:49391
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for $\Delta(1236)$ and rho production in, (E), 24:18068
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^+ + \pi^-$ at 4.3 and 5.25 GeV, production of A_2 in, (E/T), 24:5232
interactions $\gamma + p \rightarrow n + \pi^+ + \pi^+ + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow n + \pi^+$ at 1.2 and 3.0 BeV, differential cross sections for, (E), 21:863 (DESY-66/22)
interactions $\gamma + p \rightarrow n + \pi^+$ at 1.2 to 3 GeV, differential cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \rightarrow n + \pi^+$ at 165 to 230 MeV, differential cross sections for, (E), 22:32043
interactions $\gamma + p \rightarrow n + \pi^+$ at 200 to 210 MeV, angular dependence of cross section for, (E), 21:44249
interactions $\gamma + p \rightarrow n + \pi^+$ at 200 to 400 MeV, asymmetry ratios in π^+ production from, (E), 21:2348
interactions $\gamma + p \rightarrow n + \pi^+$ at 230 to 350 MeV, analysis of angular distributions for, (T), 23:25552
interactions $\gamma + p \rightarrow n + \pi^+$ at 250 MeV in nuclei, magnetic spectrometer study of meson (π^+) yield from, (E), 24:18066
interactions $\gamma + p \rightarrow n + \pi^+$ at 260 to 350 MeV, absolute differential cross sections and $P_{11}(1470)$ production in, (E), 25:9623
interactions $\gamma + p \rightarrow n + \pi^+$ at 260, 290, and 320 MeV, differential cross sections for, (E), 21:44252
interactions $\gamma + p \rightarrow n + \pi^+$ at 300 to 400 MeV in helium-4, impulse approximation for, 21:31558
interactions $\gamma + p \rightarrow n + \pi^+$ at 320 and 345 MeV, model for, 25:17425
interactions $\gamma + p \rightarrow n + \pi^+$ at 500 to 800 MeV, cross sections for, (E), 22:24521
interactions $\gamma + p \rightarrow n + \pi^+$ at backward angles, Regge analysis of, (E/T), 24:37690
interactions $\gamma + p \rightarrow n + \pi^+$ at high energies, mechanism without conspiracy for, (T), 22:22362
interactions $\gamma + p \rightarrow n + \pi^+$ at high energies, Regge-pole model for, 22:17899
interactions $\gamma + p \rightarrow n + \pi^+$ at high energies, Regge-pole model for, 22:17904
interactions $\gamma + p \rightarrow n + \pi^+$ near first N*, differential cross sections for backward, (E), 24:51880 (LAL-1225)
interactions $\gamma + p \rightarrow n + \pi^+$ near threshold, $\Delta(1236)$ contribution to, (E/T), 25:33618
interactions $\gamma + p \rightarrow n + \pi^+$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow n + \pi^+$, current algebra for, 22:13767

interactions $\gamma + p \rightarrow n + \pi^+$, current commutators, low-energy theorems, and minimal coupling for π^+ production from, 21:42297
interactions $\gamma + p \rightarrow n + \pi^+$, low-energy theorems for, 25:9721
interactions $\gamma + p \rightarrow n + \pi^+$, $N^*(1405)$ production in, (T), 21:21166
interactions $\gamma + p \rightarrow n + \pi^+$, Regge pole model for invariant functions for differential cross sections of, 24:3565
interactions $\gamma + p \rightarrow n + \pi^+$, Regge pole model for invariant functions for, 23:51952
interactions $\gamma + p \rightarrow n + \pi^+$, Regge-pole model for, 23:49088
interactions $\gamma + p \rightarrow n + \pi^+$, use of gauge invariance and PCAC hypothesis for threshold amplitude of, 21:44324
interactions $\gamma + p \rightarrow n + \pi^+$, Veneziano representation for s- and t-channel exchange conspiracy for forward peak in amplitude of, 23:44616
interactions $\gamma + p \rightarrow n +$ rho$^+$, rho exchange peripheral model for differential cross sections for, (T), 25:7585 (EFI-TF-6-69)
interactions $\gamma + p \rightarrow n + W^+$, (T), 21:7488
interactions $\gamma + p \rightarrow n + W^+$, cross section for, (T), 23:3692
interactions $\gamma + p \rightarrow N^*$ dispersion sum rules for,.(T), 21:44314
interactions $\gamma + p \rightarrow N^*$, structure and excitation mechanism of N^* in, 21:35281
interactions $\gamma + p \rightarrow N^*(1238) + \pi$ near threshold, test of current algebra and electromagnetic C noninvariance in, (T), 21:29611
interactions $\gamma + p \rightarrow N^{*++} + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \rightarrow N^{*++} + \pi^-$, cross sections and decay distributions for $N^*(1236)$ production from polarized, 21:31556
interactions $\gamma + p \rightarrow N^{*++} + \pi^-$, $N^{*++} \rightarrow p + \pi^+$, density matrix elements of N^* for polarized, (T), 24:37689
interactions $\gamma + p \rightarrow N^{*++} +$ rho$^-$ at 0.3 to 5.8 GeV, upper limit for rho$^- \rightarrow \pi^- + \gamma$ width and rho^0 branching ratio from, (E), 21:15253 (DESY-66/32)
interactions $\gamma + p \rightarrow N^{*++}(1236) + \pi^-$ at 0.3 to 5.8 GeV, cross sections and angular distributions for, (E), 21:7449
interactions $\gamma + p \rightarrow N^{*++}(1238) +$ rho$^-$ below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \rightarrow \omega + N^*$, absorptive OPE model with form factors for, (E/T), 21:33706
interactions $\gamma + p \rightarrow \omega + p$ at 1.2 to 8.2 GeV, Pomeron exchange cross section for, (E), 25:25283
interactions $\gamma + p \rightarrow \omega + p$ at 2.5 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow \omega + p$ at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \rightarrow \omega + p$ near threshold, spark chamber and scintillation counter study of differential cross sections and ω spin polarization in, (E), 25:17355
interactions $\gamma + p \rightarrow \omega + p$, DWBA and diffraction model for, 22:41767 (DESY-68/23)
interactions $\gamma + p \rightarrow \omega + p$, ω form factor from Chou—Yang model for, 23:23413
interactions $\gamma + p \rightarrow \omega + p$, $\omega^0 \rightarrow \pi^+ + \pi^- + \pi^0$, proposed experiment on, 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \rightarrow \omega + p$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \rightarrow \omega + p$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \rightarrow \omega + p$, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \rightarrow \omega + p$, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \rightarrow \omega + p$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \rightarrow \omega$(phi) $+ p$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \rightarrow \omega$(phi) $+ p$, optical theorem for, 22:41768 (DESY-68/28)
interactions $\gamma + p \rightarrow \omega^0 + p$ at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \rightarrow \Omega^- +$ anti $\Omega^- + p + \ldots$, form factor effects on total cross section for, 23:25581 (JINR-E2-4370)
interactions $\gamma + p \rightarrow p + 2\pi^0$ at 550 to 730 MeV, differential cross sections for, (E), 25:19890
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^- + 2\pi^0$, vector meson dominance, quark model, and isospin independence for, 21:37735 (DESY-67/17)
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^- + \pi^0$ at 5.25 GeV in hydrogen bubble chamber, Δ^{++} and ω^0 production in, (E), 24:3502
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^- + \pi^0$, mass distributions in 5π system for, 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^- + \pi^0$, vector meson dominance, quark model, and isospin independence for, 21:37735 (DESY-67/17)
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p + 2\pi^+ + 2\pi^-$ at 5.25 GeV in hydrogen bubble chamber, rho^0, Δ^{++}, and $A_1(1320)$ production in, (E), 24:3502
interactions $\gamma + p \rightarrow p + 3\pi^+ + 3\pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p + A_1^0$, Primakoff effect in, 24:21949 (COO-264-540)
interactions $\gamma + p \rightarrow p +$ eta (X^0) at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p +$ eta at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p +$ eta at 0.8 to 1.45 GeV, cross sections for, (E), 22:52914
interactions $\gamma + p \rightarrow p +$ eta at 0.8 to 1.45 GeV, counter—spark chamber study of differential cross sections for, (E), 23:23332
interactions $\gamma + p \rightarrow p +$ eta at 1.22 to 1.85 GeV at small angles, Cherenkov counter hodoscope study of interference between $S_{11}(1550)$ and $P_{11}(1785)$ in differential cross sections for, (E), 25:17358
interactions $\gamma + p \rightarrow p +$ eta at 950 to 2200 MeV, scintillation counter study of differential cross sections for, (E), 23:39594
interactions $\gamma + p \rightarrow p +$ eta at high energies, pole—cut model for, (T), 25:27989
interactions $\gamma + p \rightarrow p +$ eta at threshold, polarization and S_{11} resonance production in, (T), 21:2414
interactions $\gamma + p \rightarrow p +$ eta up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \rightarrow p +$ eta', dispersion-theoretic calculation of differential cross section for, 23:10779
interactions $\gamma + p \rightarrow p +$ eta, quark model classification of low-mass $I = 1/2$ N^* from, (T), 24:40395
interactions $\gamma + p \rightarrow p +$ eta, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + p \rightarrow p +$ eta, total and differential cross sections for, (T), 23:10780
interactions $\gamma + p \rightarrow p +$ eta, use of poles and resonances for chi^2 fits to, 22:15811
interactions $\gamma + p \rightarrow p +$ eta(rho) $+ p$ at 6 to 18 GeV, magnetic spectrometer study of differential cross sections for, (E), 24:42862 (SLAC-109)
interactions $\gamma + p \rightarrow p +$ eta^0 at 725 to 875 MeV, differential cross sections for, (E), 23:23333
interactions $\gamma + p \rightarrow p +$ eta^0 at 890 and 1050 MeV, differential cross sections and recoil proton polarization for, (E), 25:47716
interactions $\gamma + p \rightarrow p +$ eta^0 at 890 MeV, polarization recoil protons in, (E), 21:42613(R) (NP-16992)
interactions $\gamma + p \rightarrow p +$ eta^0 at 890 MeV, spark chamber and Cherenkov counter study of recoil proton polarization from, (E), 21:46459
interactions $\gamma + p \rightarrow p +$ eta^0, eta$^0 \rightarrow 2\gamma$ at 0.8 to 1.1 GeV, recoil proton polarization in, (E), 25:3255
interactions $\gamma + p \rightarrow p +$ eta^0, polarization of recoil protons and differential cross section for, 23:10961(R) (NP-17704)
interactions $\gamma + p \rightarrow p + f$ below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \rightarrow p + K +$ anti K at 1 to 6 GeV in hydrogen bubble chamber, phi^0 production in, (E), 21:29424
interactions $\gamma + p \rightarrow p + n\pi$ at 800 MeV, resonance production from, (E), 22:13637
interactions $\gamma + p \rightarrow p + \tau +$ anti τ, neutral currents in, (T), 24:40330
interactions $\gamma + p \rightarrow p + \omega + \pi^+ + \pi^-$ at 2.5 to 5.8 GeV, cross sections for ω production in, (E), 22:32044
interactions $\gamma + p \rightarrow p + \omega$ at 1 to 5 GeV, cross sections as function of energy for , (T), 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \rightarrow p + \omega$ at 2.1 to 5.8 GeV, cross sections for ω production in, (E), 22:32044
interactions $\gamma + p \rightarrow p + \omega$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for, (E), 24:32956
interactions $\gamma + p \rightarrow p + \omega$ at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \rightarrow p + \omega$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \rightarrow p + \omega$, cross sections for, (E), 23:10740
interactions $\gamma + p \rightarrow p + \omega$, cross sections for, (T), 21:9803
interactions $\gamma + p \rightarrow p + \omega$, model for production of mesons (ω) in, (E/T), 23:5560
interactions $\gamma + p \rightarrow p + \omega^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p + \omega^0$ at 6 GeV in hydrogen bubble chamber, ω^0 production cross sections for, (E), 21:25221
interactions $\gamma + p \rightarrow p + \omega^0$ at 6.5 to 17.8 GeV, differential cross sections for, (E), 22:44307
interactions $\gamma + p \rightarrow p + \omega^0$ at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \rightarrow p +$ phi $+ \pi^+ + \pi^-$ at 3.5 to 5.8 GeV, cross sections for phi production in, (E), 22:32044
interactions $\gamma + p \rightarrow p +$ phi at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p +$ phi at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p +$ phi at 2.5 to 5.8 GeV, cross sections for phi production in, (E), 22:32044
interactions $\gamma + p \rightarrow p +$ phi at high energies, suppression in, 24:20117
interactions $\gamma + p \rightarrow p +$ phi up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \rightarrow p +$ phi, cross sections for, (E), 23:10740
interactions $\gamma + p \rightarrow p +$ phi^0 at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \rightarrow p +$ phi^0 at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \rightarrow p + \pi + 3\pi^+ + 3\pi^-$, vector meson dominance, quark model, and isospin independence for, 21:37735 (DESY-67/17)
interactions $\gamma + p \rightarrow p + \pi^0 + \pi^0$ at 450 to 760 MeV, differential cross sections for, (E), 21:33963(R) (NP-16498)
interactions $\gamma + p \rightarrow p + \pi^0$ at 1.36 to 3 GeV, angular distributions from, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \rightarrow p + \pi^0$ at 163 to 234 MeV, phenomenological analysis of, 22:13699
interactions $\gamma + p \rightarrow p + \pi^0$ at 163, 212, and 234 MeV, π^0 angular distributions from, (E), 22:1378
interactions $\gamma + p \rightarrow p + \pi^0$ at 200 to 400 MeV, cross sections for, (E), 23:32603
interactions $\gamma + p \rightarrow p + \pi^0$ at 200 to 440 MeV, magnetic spectrometer and range telescope study of differential cross sections for, (E), 25:45643
interactions $\gamma + p \rightarrow p + \pi^0$ at 200 to 440 MeV, range telescope study of differential cross sections for, (E), 25:45644
interactions $\gamma + p \rightarrow p + \pi^0$ at 320 and 360 MeV, model for, 25:17425
interactions $\gamma + p \rightarrow p + \pi^0$ at 4 and 5.8 GeV, differential cross section for, (E), 24:51900
interactions $\gamma + p \rightarrow p + \pi^0$ at 4.0 and 5.8 GeV, differential cross sections for π^0 production in extreme forward direction in, (E), 24:26356 (DESY-70/1)
interactions $\gamma + p \rightarrow p + \pi^0$ at 4.0 to 5.8 GeV at small angles, Cherenkov counter study of differential cross section for, (E), 22:17847
interactions $\gamma + p \rightarrow p + \pi^0$ at 4.0 to 5.8 GeV/c, Cherenkov counter study of, (E), 21:44303 (NP-17037)
interactions $\gamma + p \rightarrow p + \pi^0$ at 450 to 600 MeV, polarization of recoil protons in, (E), 21:33963(R) (NP-16498)
interactions $\gamma + p \rightarrow p + \pi^0$ at 450 to 600 MeV, scintillation counter telescope and spark chamber study of recoil proton polarization in, (E), 22:44306
interactions $\gamma + p \rightarrow p + \pi^0$ at 500 to 1000 MeV, polarization of recoil protons in, (E), 22:39238
interactions $\gamma + p \rightarrow p + \pi^0$ at 574 to 1211 MeV, magnetic spectrometer and scintillation counter hodoscope study of differential cross sections for, (E), 23:39599
interactions $\gamma + p \rightarrow p + \pi^0$ at 660 to 780 MeV, backward anomaly in, (E), 22:34824 (AD-448108)
interactions $\gamma + p \rightarrow p + \pi^0$ at 700 to 1150 MeV, cross sections for π^0 production at backward angles in, (E), 23:23420
interactions $\gamma + p \rightarrow p + \pi^0$ at 750 and 1450 MeV, spark chamber study of recoil proton polarization in, (E), 22:24523
interactions $\gamma + p \rightarrow p + \pi^0$ at 750 to 1450 MeV/c, scintillation counter and spark chamber study of energy dependence of recoil proton polarization in, (E), 22:20112
interactions $\gamma + p \rightarrow p + \pi^0$ at backward angles, Regge analysis of, (E/T), 24:37690
interactions $\gamma + p \rightarrow p + \pi^0$ at threshold to 500 MeV, multipole analysis of, (T), 25:19957
interactions $\gamma + p \rightarrow p + \pi^0$ below 222 MeV, angular distributions for, (E), 23:21039
interactions $\gamma + p \rightarrow p + \pi^0$ to 6 GeV, in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow p + \pi^0$, current commutators, low-energy theorems, and minimal coupling for π^0 production from, 21:42297
interactions $\gamma + p \rightarrow p + \pi^0$, isotopic structure of isospin-1/2 N^* photoexcitation amplitudes from comparison of proton polarization in $\gamma + n \rightarrow p + \pi^-$ interactions and, (T), 24:6681
interactions $\gamma + p \rightarrow p + \pi^0$, low-energy theorems for, 25:9721
interactions $\gamma + p \rightarrow p + \pi^0$, $N^*(1405)$ production in, (T), 21:21166
interactions $\gamma + p \rightarrow p + \pi^0$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + p \rightarrow p + \pi^0$, SU(3) symmetry and Regge pole model for, 22:48347
interactions $\gamma + p \rightarrow p + \pi^0$, test of E/sub 1+//sup (3)/ multipole from backward, (E/T), 21:44329
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + K^0 +$ anti K^0 at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + K^+ + K^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ above 1.1 GeV, mass distributions in 3π system for, 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for $\Delta(1236)$ and rho production in, (E), 24:18068
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ at 5.25 GeV in hydrogen bubble chamber, forward cross sections, ω width, and upper limits to A_1^0 and A_2^0, and Δ production in, (E), 24:3502
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ below 1.1 GeV, resonance production from review of, (E), 22:13720
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^- + \pi^0$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^+ + \pi^- + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)

interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 1 GeV in hydrogen bubble chamber, analysis of, (E), 23:49035
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 2 to 2.5 GeV, rho^0 production with polarized γ in, (E), 23:8723
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 2.6 to 6.8 GeV, energy dependence of forward meson (rho) production cross section and π pair production spectra for, (E), 23:51828 (DESY-69/32)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 2.6 to 6.8 GeV, cross sections for, (E), 24:1497
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for Δ^{++}(1236) and Δ^0(1236) production and parity asymmetry for Δ^{++}(1236) production in, (E), 25:1379
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 450 to 1000 MeV, Δ(1236) isobar excitation mechanism for, (E/T), 22:46316
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 5.25 GeV in hydrogen bubble chamber, rho^0, Δ^{++}(1236), upper limit for g^0(1650), and rho^0 + p elastic and total cross sections from, (E), 24:3502
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 800 to 1500 MeV, production of charged pion pairs in, (E), 23:1583
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ below 1 GeV in hydrogen bubble chamber, preliminary results for total cross section and Δ(1236) production in, (E), 22:34828 (LNF-68/21)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ below 1 GeV, isobaric model for proton angular distributions from, (T), 22:32090
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ below 5.8 GeV in hydrogen bubble chamber, rho^0 production from, (E), 22:20110(T) (SLAC-Trans-79)
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ below 850 MeV, proton angular and π^+p invariant-mass distributions for, (E), 23:3630
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ below 900 MeV in deuterium bubble chamber, total cross sections for, (E), 24:24218
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$, below 1.4 GeV, review of resonance production from, 22:13720
interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$, dual-resonance model for diffractive, (T), 24:28517
interactions $\gamma + p \rightarrow p + \pi^+$ at 5 to 15.5 GeV, spectrometer study of cross sections for backward, (E), 23:49030
interactions $\gamma + p \rightarrow p$ + rho$''$ (1550), model predictions for, 24:28545
interactions $\gamma + p \rightarrow p$ + rho at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \rightarrow p$ + rho, cross sections for, (T), 21:9803
interactions $\gamma + p \rightarrow p$ + rho^0 + $\pi^+ + \pi^-$ at 3.5 to 5.8 GeV, cross sections for rho^0 production in, (E), 22:32044
interactions $\gamma + p \rightarrow p$ + rho^0 (ω) at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \rightarrow p$ + rho^0 (ω^0) at high energies, with Pomeranchuk pole and tensor Reggeon exchange, 24:20117
interactions $\gamma + p \rightarrow p$ + rho^0 at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p$ + rho^0 at 1 to 5 GeV, cross sections as function of energy for, (E), 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \rightarrow p$ + rho^0 at 2 to 5.8 GeV, cross sections for rho^0 production in, (E), 22:32044
interactions $\gamma + p \rightarrow p$ + rho^0 at 2.6 to 6.8 GeV, dipion spectra and cross sections for forward, (E), 25:47718
interactions $\gamma + p \rightarrow p$ + rho^0 at 6.5 to 17.8 GeV, differential cross sections for, (E), 22:44307
interactions $\gamma + p \rightarrow p$ + rho^0 at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \rightarrow p$ + rho^0 at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \rightarrow p$ + rho^0 below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \rightarrow p$ + rho^0 below 5.8 GeV, density matrix elements and spin population resonance parameters in, (E/T), 25:9678
interactions $\gamma + p \rightarrow p$ + rho^0, cross sections for, (E), 23:10740
interactions $\gamma + p \rightarrow p$ + rho^0, rho$^0 \rightarrow \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, conservation of s-channel helicity in decay angular distributions of, (E), 24:26360
interactions $\gamma + p \rightarrow p$ + rho^0, rho$^0 \rightarrow \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for rho^0 mass shift in, (E), 24:26359
interactions $\gamma + p \rightarrow p$ + rho^0, sum rules from field algebra for, 23:27775
interactions $\gamma + p \rightarrow p$ + rho^0, vector dominance diffractive model for forward, 24:8603
interactions $\gamma + p \rightarrow p + V$ (V = rho^0, ω, and phi), Regge pole description of, 23:5562
interactions $\gamma + p \rightarrow p$ + vector meson, analysis of polarized, 24:18117
interactions $\gamma + p \rightarrow p$ + vector meson, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow p$ + vector mesons, analysis of production amplitude from density-matrix elements in polarized, (T), 24:49384
interactions $\gamma + p \rightarrow p + W$ + anti W, analytical expression for cross section of, (T), 22:44351(T) (ANL-Trans-649)
interactions $\gamma + p \rightarrow p + X^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \rightarrow p + X^0$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \rightarrow p(n) + \pi^0(\pi^+)$, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + p \rightarrow$ phi + p at 14 and 16 GeV, spectrometer study of upper limit for, (E), 22:24515
interactions $\gamma + p \rightarrow$ phi + p at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow$ phi + p at 9 to 15 GeV/c from electron reactions with beryllium, upper limit on cross section for diffraction, (E/T), 21:44304
interactions $\gamma + p \rightarrow$ phi + p at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \rightarrow$ phi + p, Cheng—Wu picture for, (T), 25:9716
interactions $\gamma + p \rightarrow$ phi + p, determination of Pomeranchuk trajectory slope from, (E/T), 24:30487
interactions $\gamma + p \rightarrow$ phi + p, phi form factors from Chou—Yang model for, 23:23413
interactions $\gamma + p \rightarrow$ phi + p, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \rightarrow$ phi + p, slope of forward differential cross section for, (T), 25:1460
interactions $\gamma + p \rightarrow$ phi + p, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \rightarrow$ phi + p, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \rightarrow$ phi + p, tests of Frautschi—Margolis model for multiple Pomeron exchange in phi + p $\rightarrow$ phi + p interactions from, (T), 24:52034
interactions $\gamma + p \rightarrow$ phi + p, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \rightarrow$ phi^0 + p at 9 to 16 GeV/c, modified vector-dominance model for cross sections for, 22:50335
interactions $\gamma + p \rightarrow$ phi^0 + p, phi$^0 \rightarrow K^+ + K^-$ above 50 GeV/c, proposed experiment on, (E), 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \rightarrow \pi + \Delta$ in Regge pole model, π conspiracy in, 22:39369
interactions $\gamma + p \rightarrow \pi + \Delta$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \rightarrow \pi + \Delta$(1236), current algebra for amplitude of, 22:13701
interactions $\gamma + p \rightarrow \pi + N$, evaluation of dispersion relations for determining amplitudes of π-production, 21:37742
interactions $\gamma + p \rightarrow \pi + N$, quark dissociation model for, 21:27329
interactions $\gamma + p \rightarrow \pi + N$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \rightarrow \pi + N^*$, tests of current algebra and PCAC hypothesis in, 21:18999
interactions $\gamma + p \rightarrow \pi + p$, contribution of Mandelstam branch cuts from Reggeon exchange to, (T), 22:3455
interactions $\gamma + p \rightarrow \pi^0$ + eta^0 + p at 1.465 to 1.815 GeV, cross sections for, (E), 25:14522
interactions $\gamma + p \rightarrow \pi^0 + n$ in energy region below first resonance, multipole analysis of, 22:26604
interactions $\gamma + p \rightarrow \pi^0 + p$ at 0.65 to 1.375 GeV, counter—spark chamber system study of recoil proton polarization in, (E), 25:17356
interactions $\gamma + p \rightarrow \pi^0 + p$ at 0.8 to 5.5 GeV, cross sections for π^0 production in backward direction in, (E), 22:11571
interactions $\gamma + p \rightarrow \pi^0 + p$ at 0.8 to 5.5 GeV, scintillation counter study of resonance production from, (E), 22:13633 (DESY-67/36)
interactions $\gamma + p \rightarrow \pi^0 + p$ at 1200 to 1800 MeV, spark chamber study of recoil proton polarization from, (E), 25:14516
interactions $\gamma + p \rightarrow \pi^0 + p$ at 180 to 470 MeV, use of fixed-t dispersion relations for, 22:24603
interactions $\gamma + p \rightarrow \pi^0 + p$ at 2.0 to 5.0 GeV, scintillation counter study of differential cross sections for, 21:27295
interactions $\gamma + p \rightarrow \pi^0 + p$ at 200 to 440 MeV, differential cross sections for, (E), 24:49303
interactions $\gamma + p \rightarrow \pi^0 + p$ at 220 to 400 MeV at 70 to 175°, differential cross sections for, (E), 25:33523
interactions $\gamma + p \rightarrow \pi^0 + p$ at 230 to 380 MeV, asymmetry of cross sections for polarized, (E), 24:3497
interactions $\gamma + p \rightarrow \pi^0 + p$ at 230 to 380 MeV, Cherenkov and scintillation counter study of cross section asymmetry in, (E), 23:23324 (LNF-69/3)
interactions $\gamma + p \rightarrow \pi^0 + p$ at 240 to 420 MeV, polarization of recoil protons from, (E), 22:29615
interactions $\gamma + p \rightarrow \pi^0 + p$ at 280 to 600 MeV, asymmetry ratio for, (E), 24:49300 (LNF-70/39)
interactions $\gamma + p \rightarrow \pi^0 + p$ at 3 GeV, asymmetry in cross sections for, (E), 23:44583
interactions $\gamma + p \rightarrow \pi^0 + p$ at 3 GeV, model independent analysis for separation between exchange of natural and unnatural parity in, (T), 25:53184
interactions $\gamma + p \rightarrow \pi^0 + p$ at 3 to 16 GeV, Regge-pole model with absorptive corrections for, 23:46647
interactions $\gamma + p \rightarrow \pi^0 + p$ at 300 to 850 MeV in first and second resonance region, (T), 21:46520
interactions $\gamma + p \rightarrow \pi^0 + p$ at 4 GeV, cross sections relative to $\gamma + n \rightarrow \pi^0 + n$ interactions, (E), 25:59243
interactions $\gamma + p \rightarrow \pi^0 + p$ at 4 to 15 GeV, model of Regge-pole exchange with cut interference for, (E/T), 24:37709
interactions $\gamma + p \rightarrow \pi^0 + p$ at 4 to 18 GeV, cross sections for, (E), 24:51904 (SLAC-124)
interactions $\gamma + p \rightarrow \pi^0 + p$ at 4 to 18 GeV, spectrometer study of energy dependence of cross sections for, (E), 25:43529
interactions $\gamma + p \rightarrow \pi^0 + p$ at 400 to 800 MeV, search for resonant P_{11} state in differential cross sections for, 21:37663
interactions $\gamma + p \rightarrow \pi^0 + p$ at 5 GeV/c, polarized differential cross sections for, (T), 22:46458
interactions $\gamma + p \rightarrow \pi^0 + p$ at 5.0 to 17.8 GeV, differential cross sections for, (E), 25:14524
interactions $\gamma + p \rightarrow \pi^0 + p$ at 500 to 1000 MeV, recoil proton polarization from, 22:26549
interactions $\gamma + p \rightarrow \pi^0 + p$ at 535 to 850 MeV, analysis of π production in second resonance region in, (T), 22:5537
interactions $\gamma + p \rightarrow \pi^0 + p$ at 6 GeV, spectrometer and Cherenkov counter study of asymmetry in, (E), 25:12072
interactions $\gamma + p \rightarrow \pi^0 + p$ at 6 to 16 GeV, cross sections for, (E), 22:41726
interactions $\gamma + p \rightarrow \pi^0 + p$ at 6 to 18 GeV, absorptive Regge cut models for phenomenology of amplitude of backward, 23:51941
interactions $\gamma + p \rightarrow \pi^0 + p$ at 6 to 18 GeV, cross sections for backward, (E), 23:49031
interactions $\gamma + p \rightarrow \pi^0 + p$ at 6 to 18 GeV, differential cross sections for backward, (E), 25:12069
interactions $\gamma + p \rightarrow \pi^0 + p$ at 600 to 1200 MeV, differential cross sections for, (E), 21:18884
interactions $\gamma + p \rightarrow \pi^0 + p$ at 600 to 1200 MeV, scintillation counter telescope study of differential cross sections for, 21:37706
interactions $\gamma + p \rightarrow \pi^0 + p$ at 650 to 1750 MeV, differential cross sections for π^0 production in backward, (E), 23:13022
interactions $\gamma + p \rightarrow \pi^0 + p$ at 650 to 1750 MeV, differential cross sections for, (E), 22:48210
interactions $\gamma + p \rightarrow \pi^0 + p$ at 911 to 1390 MeV, Cherenkov counter study of cross sections for, (E), 21:46462
interactions $\gamma + p \rightarrow \pi^0 + p$ at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + p \rightarrow \pi^0 + p$ at high energies in Regge-pole model, inconsistency of crossover phenomena with, (T), 22:3310
interactions $\gamma + p \rightarrow \pi^0 + p$ at high energies, baryon Regge-exchange model for backward, 25:1446
interactions $\gamma + p \rightarrow \pi^0 + p$ at high energies, model for, 23:32658
interactions $\gamma + p \rightarrow \pi^0 + p$ at low energies, ω and B exchange in, 22:24602
interactions $\gamma + p \rightarrow \pi^0 + p$ below 450 MeV, energy-dependent multipole analysis of, 25:45697
interactions $\gamma + p \rightarrow \pi^0 + p$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \rightarrow \pi^0 + p$ in Regge pole model, helicity amplitudes for, 21:37751
interactions $\gamma + p \rightarrow \pi^0 + p$ in symmetric quark model, baryon resonance contribution to differential cross sections for, 23:27779
interactions $\gamma + p \rightarrow \pi^0 + p$ to 1.2 GeV, helicity-amplitude formalism for analysis of, 23:42617
interactions $\gamma + p \rightarrow \pi^0 + p$ up to 1.2 GeV, isobar model for analysis of π^0 production in, 23:32646 (NP-17842)
interactions $\gamma + p \rightarrow \pi^0 + p$, coherent-droplet model with long-range π exchange for, (T), 22:9539
interactions $\gamma + p \rightarrow \pi^0 + p$, cusp effect of eta on, 21:21157
interactions $\gamma + p \rightarrow \pi^0 + p$, differential cross sections at threshold for, (T), 23:39648
interactions $\gamma + p \rightarrow \pi^0 + p$, equivalent experimental set ups for polarization measurements in, (T), 25:53077
interactions $\gamma + p \rightarrow \pi^0 + p$, evaluation of multipoles for, (T), 23:16948
interactions $\gamma + p \rightarrow \pi^0 + p$, low-energy theorem from current algebra for amplitude of, 22:46363
interactions $\gamma + p \rightarrow \pi^0 + p$, multipole amplitudes and absolute cross sections for backward, (E), 25:38637
interactions $\gamma + p \rightarrow \pi^0 + p$, multipole calculations of cross sections for, 24:52031
interactions $\gamma + p \rightarrow \pi^0 + p$, nucleon trajectory degeneracy in three-pole exchange model for backward, 23:49090
interactions $\gamma + p \rightarrow \pi^0 + p$, one-particle exchange model for, 21:40177
interactions $\gamma + p \rightarrow \pi^0 + p$, peripheral model predictions for cross sections for, (E/T), 24:1553
interactions $\gamma + p \rightarrow \pi^0 + p$, $\pi^0 \rightarrow \gamma + \gamma$, total-absorption lead glass Cherenkov detector for studying, 22:371
interactions $\gamma + p \rightarrow \pi^0 + p$, quark model calculations of resonance contributions to cross sections for, (T), 24:3580
interactions $\gamma + p \rightarrow \pi^0 + p$, ratio of amplitudes with $\pi + N$ amplitudes for, 21:37747
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge cut model for, 24:3588
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge cut models for analysis of differential cross sections for, 24:3579
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge exchange models for relations among residue functions and differential cross sections for, (T), 25:1461
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge pole absorption theory for dip structure mechanism for ratio of π^0 production in $\gamma + n \rightarrow \pi^0 + n$ interactions to π^0 production in, (T), 25:53185
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge pole model with flat trajectories for, 24:49493
interactions $\gamma + p \rightarrow \pi^0 + p$, Regge pole model with diffractive correction for analysis of, (T), 24:47409
interactions $\gamma + p \rightarrow \pi^0 + p$, Reggeized absorption model fits to, 25:56458
interactions $\gamma + p \rightarrow \pi^0 + p$, Reggeized absorptive cuts in, (T), 24:42919
interactions $\gamma + p \rightarrow \pi^0 + p$, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \rightarrow \pi^0 + p$, review of N^* production in, (E/T), 23:49085
interactions $\gamma + p \rightarrow \pi^0 + p$, review of pion exchange in, 22:24684
interactions $\gamma + p \rightarrow \pi^0 + p$, review of resonance production in, 21:29481
interactions $\gamma + p \rightarrow \pi^0 + p$, sign of $\pi^0 \rightarrow \gamma + \gamma$ decay amplitude from, (T), 24:3564

interactions $\gamma + p \to \pi^0 + p$, vector dominance hypothesis and Regge pole exchange for, 22:48273

interactions $\gamma + p \to \pi^0 + \pi^0 + p$, hydrogen target for studying, 23:25726 (LNF-68/70)

interactions $\gamma + p \to \pi^0(\text{eta}) + p$, duality and meson trajectories in Regge cut model for, (T), 25:36441

interactions $\gamma + p \to \pi^0(\text{eta}) + p$, mixing angle of isosinglets eta$_1$ and eta$_8$ in, (T), 24:35623 (ITF-70-19)

interactions $\gamma + p \to \pi^0(\text{eta}) + p$, strong absorptive Regge-cut model for, (T), 25:7597

interactions $\gamma + p \to \pi^0(\text{eta}^0) + p$ at high energies, peripheral model predictions for cross sections of, 23:51878 (DESY-69/31)

interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$ at 6 to 18 GeV, magnetic spectrometer study of differential cross sections for, (E), 24:42862 (SLAC-109)

interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$ at high energies, review of backward, (E/T), 25:53029

interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$, model with poles and cuts for mixing angles of eta$_1$ and eta$_8$ isosinglets in, (T), 25:14629

interactions $\gamma + p \to \pi^- + \Delta(1236)$ at 0.9 to 1.3 GeV, scintillation and Cherenkov counter study of cross sections for, (E), 22:3247

interactions $\gamma + p \to \pi^- + \Delta(1236)$, π-conspiracy and factorization in, 24:15524

interactions $\gamma + p \to \pi^- + \Delta^{++}$ at 2.8 and 4.7 GeV, quark-model predictions for $\Delta(1236)$ decay angular distributions in, (E/T), 25:40932

interactions $\gamma + p \to \pi^- + \Delta^{++}$ at 5.5 GeV, spectrometer study of Δ exchange in backward, (E), 23:49030

interactions $\gamma + p \to \pi^- + \Delta^{++}$ in strong-cut Reggeized model, 25:14603

interactions $\gamma + p \to \pi^- + \Delta^{++}$, form factor in gauge-invariant OPE model for, 23:13056

interactions $\gamma + p \to \pi^- + \Delta^{++}$, low t theorem formulation by minimal gauge invariant extension of π exchange in, 24:26391 (CALT-68-245)

interactions $\gamma + p \to \pi^- + \Delta^{++}$, test of vector-dominance assumption for, 23:8772

interactions $\gamma + p \to \pi^- + \Delta^{++}$, vector dominance model predictions for $\Delta(1236)$ and interference between rho and ω production in amplitudes of, 23:51899

interactions $\gamma + p \to \pi^- + \Delta^{++}$, vector-dominance-model relation between $\pi^+ + p \to \text{rho} + \Delta^{++}$ and $\pi^+ + p \to \omega + \Delta^{++}$ interactions and, 24:12976

interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$ at 5 to 16 GeV, differential cross sections for, (E), 23:10737

interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$ using polarized photons, $\pi\pi$ production in, (E), 22:39321

interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$, π conspiracy and factorization in, 24:49393

interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$, quark model for $\Delta^{++}(1236)$ decay angular distributions, cross sections, and asymmetry parameter for, 24:6722

interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$, review of experimental data on, 23:10734 (SLAC-PUB-501)

interactions $\gamma + p \to \pi^+ + n$ at 0.01 to 2 $(\text{GeV}/c)^2$, spectrometer study of forward peak in, (E), 22:7426

interactions $\gamma + p \to \pi^+ + n$ at 0.450 to 3 GeV, resonance structure of cross sections for, (E), 25:12067 (LAL-1239)

interactions $\gamma + p \to \pi^+ + n$ at 0.9 to 3.2 GeV, cross sections for backward T^+ production in, (E), 22:48209

interactions $\gamma + p \to \pi^+ + n$ at 1 to 3 GeV, cross sections for background production of π^+ in, (E), 24:37688

interactions $\gamma + p \to \pi^+ + n$ at 1 to 5 GeV, absorption correction in DWBA approximation for, 21:40178

interactions $\gamma + p \to \pi^+ + n$ at 1.2 to 3 GeV, resonance structure in cross sections for, (E), 21:27290 (NP-16741)

interactions $\gamma + p \to \pi^+ + n$ at 1.2 to 3.0 GeV, $N_3^*(1920)$ and $N_1^*(2190)$ production from, (E), 21:18878 (DESY-67/3)

interactions $\gamma + p \to \pi^+ + n$ at 1.2 to 3.0 GeV, resonance production in, (E), 21:27289 (NP-16737)

interactions $\gamma + p \to \pi^+ + n$ at 1.2 to 3.0 GeV, resonance structure in cross sections for, (E), 21:18881

interactions $\gamma + p \to \pi^+ + n$ at 140 to 700 MeV, cross sections for, (E), 21:2351

interactions $\gamma + p \to \pi^+ + n$ at 165 to 200 MeV, angular and energy dependence of cross sections for, (E), 23:30693(T) (CERN-Trans-68-18)

interactions $\gamma + p \to \pi^+ + n$ at 180 to 470 MeV, use of fixed-t dispersion relations for, 22:24603

interactions $\gamma + p \to \pi^+ + n$ at 180 to 500 MeV, π^+ angular distribution from, (T), 22:17907

interactions $\gamma + p \to \pi^+ + n$ at 2 GeV, absorption corrections in, 22:13697

interactions $\gamma + p \to \pi^+ + n$ at 2 to 5 GeV, elastic π^+ production from, (E), 21:17024

interactions $\gamma + p \to \pi^+ + n$ at 2.5 to 5 GeV, differential cross sections for polarized, (E/T), 23:25495

interactions $\gamma + p \to \pi^+ + n$ at 2.5 to 5 GeV, magnetic spectrometer study of differential cross sections for, (E) , 23:25492 (DESY-69/5)

interactions $\gamma + p \to \pi^+ + n$ at 2.6 to 16 GeV with linearly polarized photons, spin—parity contributions to cross sections for, (T), 25:5321 (DEMO-70/1)

interactions $\gamma + p \to \pi^+ + n$ at 2.6 to 4.17 GeV, O(3, 1) symmetry for, 23:32654

interactions $\gamma + p \to \pi^+ + n$ at 2.6 to 6 GeV in deuterium bubble chamber, (E), 22:34827 (DESY-68/22)

interactions $\gamma + p \to \pi^+ + n$ at 2.7 and 4.9 GeV, forward peak in cross section for, (E), 22:13632 (DESY-67/35)

interactions $\gamma + p \to \pi^+ + N$ at 2.8 to 9.8 GeV, cross sections in u-channel for, (E), 24:10655

interactions $\gamma + p \to \pi^+ + n$ at 210 to 270 MeV at 51 to 134°, asymmetry of, (E), 25:45636

interactions $\gamma + p \to \pi^+ + n$ at 229 to 258 MeV, assymetry measurements for polarized, (E), 24:12925

interactions $\gamma + p \to \pi^+ + n$ at 230 MeV, π^+ lifetime determination from (E), 21:11748

interactions $\gamma + p \to \pi^+ + n$ at 3 GeV/c, violation of quark model sum rule in, (T), 22:22363

interactions $\gamma + p \to \pi^+ + n$ at 3.0 GeV, asymmetry in, (E), 24:51889

interactions $\gamma + p \to \pi^+ + n$ at 3.0 to 3.7 GeV, magnetic spectrometer and scintillation counter study of resonance production in, 21:31516

interactions $\gamma + p \to \pi^+ + n$ at 3.4 and 5 GeV, cross section for π^+ production in, (E), 22:39237

interactions $\gamma + p \to \pi^+ + n$ at 3.4 and 5.0 GeV, Cherenkov counter study of differential cross sections for, (E), 22:3239

interactions $\gamma + p \to \pi^+ + n$ at 3.4 GeV at small momentum transfers, cross section asymmetry for, (E), 25:9624

interactions $\gamma + p \to \pi^+ + n$ at 3.4 GeV at small momentum transfers, cross section asymmetry for, (E), 25:7527 (DESY-70/54)

interactions $\gamma + p \to \pi^+ + n$ at 3.4 GeV, π^+ production amplitudes in, (E/T), 23:13020

interactions $\gamma + p \to \pi^+ + n$ at 3.4 GeV, test of vector dominance model from, (E), 23:5514

interactions $\gamma + p \to \pi^+ + n$ at 3.4 to 18 GeV, generalized Veneziano model for, 25:33636

interactions $\gamma + p \to \pi^+ + n$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423

interactions $\gamma + p \to \pi^+ + n$ at 300 to 1200 MeV, differential cross sections for, (E), 25:40859

interactions $\gamma + p \to \pi^+ + n$ at 300 to 750 MeV, differential cross sections for, (E), 22:46313

interactions $\gamma + p \to \pi^+ + n$ at 300 to 750 MeV, magnetic spectrometer study of, π^+ angular distributions from, (E), 21:29426

interactions $\gamma + p \to \pi^+ + n$ at 300 to 750 MeV, magnetic spectrometer and counter telescope study of differential cross section of, (E), 22:24514 (LAL-1186)

interactions $\gamma + p \to \pi^+ + n$ at 390 MeV, polarization of recoil neutron from, (E), 22:26555

interactions $\gamma + p \to \pi^+ + n$ at 4 and 8 GeV/c, vector-dominance model comparison of $\pi^- + p \to \text{rho}^0 + n$ and, 22:34916

interactions $\gamma + p \to \pi^+ + n$ at 4.3 to 9.8 GeV at large angles, Regge pole theory for differential cross sections of, (T), 25:14598

interactions $\gamma + p \to \pi^+ + n$ at 4.3 to 9.8 GeV/c, absorptive Regge cut models for phenomenology of amplitude of backward, 23:51941

interactions $\gamma + p \to \pi^+ + n$ at 4.3, 6.7, and 9.8 GeV, angular distribution of π^+ production via u channel using Δ trajectory in, (E/T), 23:8809

interactions $\gamma + p \to \pi^+ + n$ at 5 and 16 GeV, asymmetry of cross section for polarized, (E), 24:47360

interactions $\gamma + p \to \pi^+ + n$ at 5 and 16 GeV, cross section asymmetry for, (E), 25:5251 (UCRL-19897)

interactions $\gamma + p \to \pi^+ + n$ at 5 and 16 GeV, spectrometer study of cross section asymmetry for, (E), 25:45632

interactions $\gamma + p \to \pi^+ + n$ at 5 GeV/c, polarized differential cross sections for, (T), 22:46458

interactions $\gamma + p \to \pi^+ + n$ at 5 to 16 GeV, differential cross sections for π^+ production in, (E), 22:13640

interactions $\gamma + p \to \pi^+ + n$ at 500 to 1350 MeV, differential cross section for, (E), 21:25223

interactions $\gamma + p \to \pi^+ + n$ at 500 to 1350 MeV, magnetic spectrometer study of eta production from, (E), 22:3246

interactions $\gamma + p \to \pi^+ + n$ at 535 to 850 MeV, analysis of π production in second resonance region in, (T), 22:5537

interactions $\gamma + p \to \pi^+ + n$ at 589 to 1269 MeV, magnetic spectrometer study of differential cross sections for, (E), 21:37661

interactions $\gamma + p \to \pi^+ + n$ at 589 to 1269 MeV, magnetic spectrometer study of, (E), 21:42245

interactions $\gamma + p \to \pi^+ + n$ at 600 to 1700 MeV, cross section for forward π^+ production in, (E), 24:21911

interactions $\gamma + p \to \pi^+ + n$ at high energies in Regge pole model, 23:32664

interactions $\gamma + p \to \pi^+ + n$ at high energies, absorption effects in, (T), 22:26601

interactions $\gamma + p \to \pi^+ + n$ at high energies, baryon Regge-exchange model for backward, 25:1446

interactions $\gamma + p \to \pi^+ + n$ at high energies, cross sections for, (E), 22:44308

interactions $\gamma + p \to \pi^+ + n$ at high energies, predictions for target asymmetry in, (T), 25:47775 (DESY-71/27)

interactions $\gamma + p \to \pi^+ + n$ at high energies, predictions of finite-energy sum rules for, (E/T), 25:22732

interactions $\gamma + p \to \pi^+ + n$ at high energies, quantum number for Regge trajectory family for, (T), 24:5348

interactions $\gamma + p \to \pi^+ + n$ at high energies, Regge theory and SU(3) representation mixing for, 23:44657 (IS-T-291)

interactions $\gamma + p \to \pi^+ + n$ at high energies, Reggeization of amplitudes for, 23:1643

interactions $\gamma + p \to \pi^+ + n$ at high energies, review on, 23:27767 (SLAC-PUB-589)

interactions $\gamma + p \to \pi^+ + n$ at high energies, review of Regge pole theory for, 24:5310

interactions $\gamma + p \to \pi^+ + n$ at high energies, rho exchange for absorption effects in, 22:13692 (DESY-67/37)

interactions $\gamma + p \to \pi^+ + n$ below 16 GeV, vector dominance model for comparison with $\pi^- + p \to \text{rho}^0 + n$ interactions below 16 GeV, 22:29652 (DESY-68/6)

interactions $\gamma + p \to \pi^+ + n$ below 230 MeV, (E), 22:39342

interactions $\gamma + p \to \pi^+ + n$ below 450 MeV, energy-dependent multipole analysis of, 25:45697

interactions $\gamma + p \to \pi^+ + n$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)

interactions $\gamma + p \to \pi^+ + n$ in energy region below first resonance, multipole analysis of, 22:26604

interactions $\gamma + p \to \pi^+ + n$ in first resonance region, angular distribution for, (T), 23:30732

interactions $\gamma + p \to \pi^+ + n$ in Regge pole model, differential cross sections for, 22:3324

interactions $\gamma + p \to \pi^+ + n$ in Regge pole model, π conspiracy in, 22:39369

interactions $\gamma + p \to \pi^+ + n$ in strong-cut Reggeized model, 25:14603

interactions $\gamma + p \to \pi^+ + n$ in Veneziano model, cross sections for, 25:9717

interactions $\gamma + p \to \pi^+ + n$ interactions at 227 to 260 MeV and 51 to 146°, symmetry ratios for, (E), 25:19889

interactions $\gamma + p \to \pi^+ + n$ interactions at 5 to 16 GeV, cross sections for, (E), 23:49032

interactions $\gamma + p \to \pi^+ + n$ near threshold, divergence conditions for, (T), 22:20185

interactions $\gamma + p \to \pi^+ + n$ to 1.2 GeV, helicity-amplitude formalism for analysis of, (E/T), 23:42617

interactions $\gamma + p \to \pi^+ + n$ using polarized γ, discrepancy between vector dominance model and π production in, (T), 23:15017

interactions $\gamma + p \to \pi^+ + n$, coherent-droplet model with long-range π exchange for, (T), 22:9539

interactions $\gamma + p \to \pi^+ + n$, comparison of u-channel $\pi^- + p \to \text{rho}^0 + n$ interaction with isovector part of, 24:52010

interactions $\gamma + p \to \pi^+ + n$, conspiracy and evasion in, 22:37113

interactions $\gamma + p \to \pi^+ + n$, differential cross sections at threshold for, (T), 23:39648

interactions $\gamma + p \to \pi^+ + n$, diffractive Regge pole model and conspiracy relation for, (T), 24:8643

interactions $\gamma + p \to \pi^+ + n$, dispersion relation calculation of phase of forward amplitude of, 25:50100

interactions $\gamma + p \to \pi^+ + n$, dispersion theory model for analysis of exotic currents in, 25:40934

interactions $\gamma + p \to \pi^+ + n$, divergence conditions for, 21:33640 (JINR-E2-3364)

interactions $\gamma + p \to \pi^+ + n$, double-Regge-exchange conspiracy for π^+ production in, 22:34928

interactions $\gamma + p \to \pi^+ + n$, evaluation of multipoles for, (T), 23:16948

interactions $\gamma + p \to \pi^+ + n$, fixed poles in model for differential cross sections and polarization in, (T), 24:49404

interactions $\gamma + p \to \pi^+ + n$, formulas for amplitudes from experimental data for, (T), 25:22735

interactions $\gamma + p \to \pi^+ + n$, Lorentz invariance in Reggeization of π trajectory in, 22:39336

interactions $\gamma + p \to \pi^+ + n$, model for Regge cut contributions to, 23:42778

interactions $\gamma + p \to \pi^+ + n$, moving cut contributions to amplitude for, 23:34565

interactions $\gamma + p \to \pi^+ + n$, multipole calculations of cross sections for, 24:52031

interactions $\gamma + p \to \pi^+ + n$, $N^* \to N + \gamma$ transition magnetic moment from, 21:27335

interactions $\gamma + p \to \pi^+ + n$, nucleon trajectory degeneracy in three-pole exchange model for backward, 23:49090

interactions $\gamma + p \to \pi^+ + n$, one-particle exchange model for, 21:40177

interactions $\gamma + p \to \pi^+ + n$, operators at $t = +-$ infinity in current algebra for, 21:4015

interactions $\gamma + p \to \pi^+ + n$, peripheral model for test of vector dominance in, 24:52012

interactions $\gamma + p \to \pi^+ + n$, pseudomodel predictions for differential cross sections for polarized, 25:59362

interactions $\gamma + p \to \pi^+ + n$, π conspiracy in, 23:8762 (INP-622(Vol.1), pp 28-38)

interactions $\gamma + p \to \pi^+ + n$, ratio of amplitudes with $\pi + N$ amplitudes for, 21:37747

interactions $\gamma + p \to \pi^+ + n$, Regge cut model for, 24:3588

interactions $\gamma + p \to \pi^+ + n$, Regge exchange models for relations among residue functions for, (T), 25:1461

interactions $\gamma + p \to \pi^+ + n$, Regge pole model for, 21:21165

interactions $\gamma + p \to \pi^+ + n$, Regge pole model with diffractive correction for cross section ratios with $\gamma + n \to \pi^- + p$ interactions for, 24:1549

interactions $\gamma + p \to \pi^+ + n$, Regge pole model with diffractive correction for, (T), 24:42903

interactions $\gamma + p \to \pi^+ + n$, Regge-pole model for pion-exchange, 22:7494

interactions $\gamma + p \to \pi^+ + n$, Reggeized U(6) x U(6) x O(3) absorptive peripheral model for, 24:37701

interactions $\gamma + p \to \pi^+ + n$, review of experimental data on, 23:10734 (SLAC-PUB-501)

interactions $\gamma + p \to \pi^+ + n$, review of experiments and theory for, 22:11609 (NP-17221)

interactions $\gamma + p \to \pi^+ + n$, review of N^* production in, (E/T), 23:49085

interactions $\gamma + p \to \pi^+ + n$, review of pion exchange in, 22:24684

interactions $\gamma + p \to \pi^+ + n$, soft pion theory in current algebra for, 23:49117

interactions $\gamma + p \to \pi^+ + n$, strong absorptive Regge-cut model for, (T), 25:7597

interactions $\gamma + p \to \pi^+ + n$, strong-absorption Regge-cut model for, 25:47783

interactions $\gamma + p \to \pi^+ + n$, test of vector dominance model from, 23:5569

interactions $\gamma + p \to \pi^+ + n$, tests of vector-meson dominance relations in electric Born model for, 23:49094

interactions $\gamma + p \to \pi^+ + n$, vector dominance and quark model relation for polarization in, 22:41769 (DESY-68/33)

interactions $\gamma + p \rightarrow \pi^+ + n$, vector dominance discrepancy in relation with $\pi^- + p \rightarrow \text{rho}^0 + n$ interactions for, 23:23408
interactions $\gamma + p \rightarrow \pi^+ + n$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \rightarrow \pi^+ + n$, vector meson dominance in, 24:18137
interactions $\gamma + p \rightarrow \pi^+ + n$, vector-meson dominance analysis of, 22:26664
interactions $\gamma + p \rightarrow \pi^+ + n$, Veneziano model for cross sections, asymmetry ratios, and baryon residues in, (T), 25:40926
interactions $\gamma + p \rightarrow \pi^- + N^*$, peripheral model for test of vector dominance in, 24:52012
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ above 5 GeV, non-Regge behavior in, 23:44624
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ at high energies, cross sections for, (E), 22:44308
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$, vector dominance model predictions for, (T), 23:42596
interactions $\gamma + p \rightarrow \pi^+ + N(1520)$, low-t theorems for forward π^+ production in, (T), 25:14609
interactions $\gamma + p \rightarrow \pi^+ + n(\Delta^0)$ at 12 GeV, asymmetry in, (E), 25:40863
interactions $\gamma + p \rightarrow \pi^+ + p$ at 300 to 1200 MeV, resonance structures in, (E), 25:30774 (INSJ-126)
interactions $\gamma + p \rightarrow \pi^- + p$ at high energies, predictions of finite-energy sum rules for, (E/T), 25:22732
interactions $\gamma + p \rightarrow \pi^+ + \pi^0 + n$ at 140 to 700 MeV, cross sections for, (E), 21:2351
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.85 to 1.21 GeV, differential cross sections for, (E), 22:46315
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.9 to 1.3 GeV, scintillation and Cherenkov counter study of cross sections for, (E), 22:3247
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.9 to 1.3 GeV, magnetic spectrometer study of cross sections for $\pi^-\pi^+$ and $N^*(1238)$ production in, 21:42243
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 1.4 to 3.3 GeV, correlation between photon polarization and rho production and decay in, (E), 24:32953 (DESY-70/19)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 16 GeV, cross sections for rho^0 production in, (E), 22:48212
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, conservation of s-channel helicity and natural parity exchange in rho^0 production in, (E), 25:17359
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV, rho^0—ω^0 interference in, (E), 25:40862
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in bubble chamber, cross sections, rho^0 production, rho^0 - ω interference, and $\Delta^{++}(1236)$ production in, (E) , 25:25282 (UCRL-19890)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, rho^0—ω interference parameters in diffractive meson production in, (E), 25:1368 (UCRL-19753)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at high energies, test of center-of-mass helicity conservation in diffractive, (T), 24:51986
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at high energies, diffraction-dissociation model for, 25:22747
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at high energies, diffraction—dissociation model for rho production in, (T), 24:42898 (DESY-70/23)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ below 1 GeV, invariant-mass and angular distributions for $P_{11}(1400)$ production in, (E), 25:22662
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ below 750 MeV, counter and spark chamber study of Δ (1236) production in, (E), 22:24513 (INSJ-107)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$, diffraction dissociation mechanism for, (T), 25:3320
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$, diffraction-dissociation, dual-resonance, and interference models for rho production in, 25:5323 (DNPL/R-7, pp 3-28)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$, five-body Veneziano amplitude for diffractive, 25:12152
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$, mass dependence of momentum transfer distributions in diffractive, (T), 24:42905
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$, yield measurements for, 21:33963(R) (NP-16498)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + \pi^0 + p$ at 2 to 16 GeV, cross sections for phi production in, (E), 23:21038
interactions $\gamma + p \rightarrow \pi^+(\pi^0) + n(p)$ below 1 GeV, review of, (E/T), 23:39598
interactions $\gamma + p \rightarrow \pi^+(\pi^0) + n(p)$ below 500 MeV, differential cross sections, asymmetry ratios, and recoil-nucleon polarization for, (T), 24:37682
interactions $\gamma + p \rightarrow \pi^+(\pi^0) + n(p)$ from threshold to 6 GeV/c in hydrogen bubble chamber, differential and total cross sections for, (E), 24:3559
interactions $\gamma + p \rightarrow \pi^+(\pi^0) + n(p)$ in second resonance region, fixed-t dispersion relations for, (T), 25:12146
interactions $\gamma + p \rightarrow \pi^-(\pi^+) + \Delta^{++}(1236)(\Delta^0(1236))$ at 16 GeV, differential cross sections for, (E), 24:45413
interactions $\gamma + p \rightarrow \text{rho} + N$ at high energies, cross sections for diffractive, (T), 25:22737
interactions $\gamma + p \rightarrow \text{rho} + p$ at 4 to 8.8 GeV, dipion mass spectra and angular distributions for, (E), 25:45631
interactions $\gamma + p \rightarrow \text{rho} + p$ at high energies, rho matter density in optical model for, (T), 25:22820
interactions $\gamma + p \rightarrow \text{rho} + p$ at very high energies, integrated cross sections, angular distributions, and pionization in diffractive, (T), 25:53050 (DESY-71/36)
interactions $\gamma + p \rightarrow \text{rho} + p$, cross sections for, 22:9554
interactions $\gamma + p \rightarrow \text{rho} + p$, optical theorem for, 22:41768 (DESY-68/28)
interactions $\gamma + p \rightarrow \text{rho} + p$, optical theorem for lower limit on cross sections for, 22:44354
interactions $\gamma + p \rightarrow \text{rho} + p$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \rightarrow \text{rho} + p$, rho form factor from Chou—Yang model for, 23:23413
interactions $\gamma + p \rightarrow \text{rho} + p$, two-pion exchange contributions to absorptive amplitude for, 22:3424
interactions $\gamma + p \rightarrow \text{rho} + p$, use for measuring rho beta decay coupling constant, 23:5519
interactions $\gamma + p \rightarrow \text{rho}(\omega) + p$, review of, (E), 25:25280 (DESY-70/64)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, s-channel helicity conservation in, (T), 25:47794
interactions $\gamma + p \rightarrow \text{rho}^0 + N + m\pi$ at 5 to 100 GeV, diffractive rho—N^* production and double peripheral processes with Pomeron and π exchange in, (T), 25:3308 (DESY-70/45)
interactions $\gamma + p \rightarrow \text{rho}^0 + N^{*+}$, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow \text{rho}^0 + p \rightarrow \pi^+ + \pi^- + p$ at 2.0 to 2.5 GeV, (E), 23:7073 (DESY-68/50)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 14 and 16 GeV, spectrometer study of upper limit for, (E), 22:24515
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 2 to 20 GeV, Regge pole theory for real part of amplitude for rho + p interactions from cross sections of forward, (T), 25:1538
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 2.5 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 2.8 and 4.7 GeV, S-channel helicity conservation in polarized, 25:14605
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 3 to 16 GeV, vector dominance for, 23:51898
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at 4.4 GeV, two-pion-exchange model predictions for rho decay angular distribution and cross section for, 23:23412
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \rightarrow \text{rho}^0 + p$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, C noninvariance in, 21:15285
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, Cheng—Wu picture for, (T), 25:9716
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, differential cross section from e + p interaction at 4.9 GeV, (E), 22:15716
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, impulse approximation and vector dominance hypothesis for differential cross sections of $\text{rho}^0 + p \rightarrow \text{rho}^0 + p$ interactions relation with differential cross sections of, (T), 25:53091
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, light cone and vector meson dominance in, 25:47781
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, N(1680) production in, (T), 23:42594
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, rho mass shift in, 25:3326
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, rho $\pi\gamma$ coupling constant from π exchange contribution to, 24:49374
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, $\text{rho}^0 \rightarrow \pi^+ + \pi^-$ at 1.4 to 3.3 GeV, diffractionlike behavior in, (E), 25:1376
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, $\text{rho}^0 \rightarrow \pi^+ + \pi^-$ at 50 to 90 GeV/c, proposed experiment on, 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, rho^0 mass shift and slope of forward differential cross section for, (T), 25:1460
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, s-channel helicity conservation in diffraction, 24:24337
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, s-channel helicity conservation for diffractive part of, (T), 25:30885
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, strong-absorption model for spin independence of, (T), 22:13691 (DESY-67/32)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, vector dominance for total cross sections for, 23:51877 (DESY-69/30)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \rightarrow \text{rho}^0 + p$, vector dominance model for γrho^0 coupling constant from, 23:36870
interactions $\gamma + p \rightarrow \text{rho}^0(\omega) + \Delta(1236)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \rightarrow \text{rho}^0(\omega) + N(1470)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \rightarrow \text{rho}^0(\omega) + N(1518)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \rightarrow \text{rho}^0(\text{phi}^0) + p$ interactions at 5.0 to 17.8 GeV, differential cross sections for, (E), 25:14524
interactions $\gamma + p \rightarrow \text{rho}^+ + \Delta^0$ at 4.3 GeV in bubble chamber, width of (rho $\pi\gamma$) from cross sections for, (E), 24:49301
interactions $\gamma + p \rightarrow \text{rho}^- + \Delta^{++}$ at 4 to 8 GeV, energy dependence of cross sections for, 25:33610
interactions $\gamma + p \rightarrow \text{rho}^+ + N$, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow \text{rho}^+ + n$, $\text{rho}^+ \rightarrow \pi^+ + \pi^0$, rho^+ Regge-trajectory-exchange model for, 22:44360
interactions $\gamma + p \rightarrow \text{rho}^+ + N^{*0}$, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow \text{rho}^- + N^{*++}$, nearest-singularity model for, 21:42296
interactions $\gamma + p \rightarrow \text{rho}^- (\text{rho}^0) + \Delta^{++} (\Delta^+)$ at 4.3 GeV in bubble chamber, width of (rho $\pi\gamma$) from cross sections for, (E), 24:49301
interactions $\gamma + p \rightarrow \Sigma + K$ near threshold, cross sections for, (T), 23:7110
interactions $\gamma + p \rightarrow \Sigma^0 + K^+$ at backward angles, anomalous magnetic moment of Σ^0 and Regge pole exchanges in, 24:42900
interactions $\gamma + p \rightarrow \Sigma^0 + K^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Sigma^0 + K^+$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \rightarrow \Sigma^+ + K^0$ at 1.5 GeV, emulsion study of Σ^+ magnetic moment from, 21:31521
interactions $\gamma + p \rightarrow \Sigma^+ + K^0$ at 1.5 to 5 GeV, momentum spectra and cross sections for, (E), 25:3248
interactions $\gamma + p \rightarrow \Sigma^+ + K^0$ at 1500 MeV, Σ^+ magnetic moment from, (E), 21:15254
interactions $\gamma + p \rightarrow \Sigma^+ + K^0$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Sigma^+ + K^0$, dispersion sum rules for Σ^+ magnetic moment from, 22:9537
interactions $\gamma + p \rightarrow \Sigma^- + K^+ + \pi^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow \Sigma^+ + K^+ + \pi^-$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \rightarrow$ vector meson + N_3^*, quark dissociation model for, 21:27329
interactions $\gamma + p \rightarrow$ vector meson + p at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \rightarrow$ vector meson + p at high energies, vector meson dominance and quark model for, 24:49379
interactions $\gamma + p \rightarrow$ vector meson + p, cross sections for, (T), 22:46448
interactions $\gamma + p \rightarrow$ vector meson + p, model for, 21:21160
interactions $\gamma + p \rightarrow$ vector mesons + p Regge-pole model, 24:12972
interactions $\gamma + p \rightarrow$ vector mesons + p, π conspiracy and factorization in, 24:49393
interactions $\gamma + p \rightarrow$ vector mesons + p, test of tensor meson dominance in SU(3)-symmetry breaking from, 25:33607
interactions $\gamma + p \rightarrow Y + K$ at 0.9 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p \rightarrow Y^* + K^+$ at 1800 to 2600 MeV, resonance widths and cross sections for, (E), 25:3251
interactions $\gamma + p \rightarrow Y_1^{*0} + K^+$ at 1.42 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p \rightarrow Y_1^{*+} + K^0$ at 1.42 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p$ above 1.2 GeV, data compilation on cross sections for hadron production in, (E), 25:12066 (DESY-HERA-70-1)
interactions $\gamma + p$ above 2 GeV, review of, 24:21963
interactions $\gamma + p$ above 3 GeV, review of experiments on, 22:22274 (CONF-670923-, pp 309-36)
interactions $\gamma + p$ above 4 GeV, quantum electrodynamics test from wide angle electron pair production from, (E), 23:51839
interactions $\gamma + p$ above meson production threshold, Compton, 23:8774
interactions $\gamma + p$ and $\gamma + n$, dip structure in ratio of π^0 production in, 24:35662
interactions $\gamma + p$ at 0.05 to 5.0 GeV in hydrogen bubble chamber, total cross section for hadron production in, (E), 22:41721 (DESY-68/31)
interactions $\gamma + p$ at 0.3 to 5.8 GeV, N^{*++} (1236) production from, (E), 21:15253 (DESY-66/32)
interactions $\gamma + p$ at 0.3 to 5.8 GeV, resonance meson production from, (E), 21:15253 (DESY-66/32)
interactions $\gamma + p$ at 0.5 and 5.0 GeV, total cross section for hadron preduction in, (E), 22:50278
interactions $\gamma + p$ at 0.5 to 45 GeV, kinematics tables for, 22:7421 (SLAC-77)
interactions $\gamma + p$ at 1 TeV, current algebra for total cross sections for W^+ boson and hadron production in, (T), 23:51890
interactions $\gamma + p$ at 1 to 6 GeV in hydrogen bubble chamber, cross sections for strange-particle production in, (E), 21:29424
interactions $\gamma + p$ at 1.0 to 6.4 GeV, scintillation counter study of total cross sections for hadron production in, (E), 24:40226 (DESY-70/17)
interactions $\gamma + p$ at 1.15 to 6.25 GeV, scintillation counter study of total cross sections for hadron production from, (E), 24:51890
interactions $\gamma + p$ at 1.44 to 4.7 GeV in hydrogen bubble chamber, energy dependence of hadronic total and partial cross sections for, (E), 23:44581
interactions $\gamma + p$ at 1.46 to 6.55 GeV, scintillation counter study of total cross sections for electron pair production in, (E), 24:51890
interactions $\gamma + p$ at 1.5 to 6 GeV, review of strange particle production from, 22:22273 (CONF-670923-, pp 254-69)
interactions $\gamma + p$ at 100 to 250 MeV, triplet production from total absorption cross sections for, 21:37668
interactions $\gamma + p$ at 120 to 280 MeV, analysis of elastic, (E/T), 21:33652
interactions $\gamma + p$ at 1450 and 1525 MeV, cross sections for neutral Y^* resonant states from, 21:27296
interactions $\gamma + p$ at 2 to 16 GeV, production of Δ^{++}, rho, ω, and phi in, (E), 24:28473

interactions $\gamma + p$ at 200 to 440 MeV, differential cross sections for π^0 production in, (E), 24:15448
interactions $\gamma + p$ at 200 to 440 MeV, magnetic spectrometer study of angular distributions and differential cross sections for, (E), 25:45642
interactions $\gamma + p$ at 200 to 450 MeV, π^+ production by linearly polarized, (E), 22:29616
interactions $\gamma + p$ at 220 to 380 MeV, cross section for backward production of π^0 in, (E), 22:11574
interactions $\gamma + p$ at 220 to 425 MeV, differential cross sections for π^+ production in, (E), 24:15447
interactions $\gamma + p$ at 220 to 425 MeV, differential cross sections for, (E), 24:49302
interactions $\gamma + p$ at 275 to 1850 MeV, total cross section for hadron production, 25:25376
interactions $\gamma + p$ at 290 to 550 MeV in hydrogen bubble chamber, π^+ production at O° and forward angles from, (E), 22:1377
interactions $\gamma + p$ at 3 to 19 GeV, total cross section for hadron production in, 23:25494(R) (UCSB-34-P-135-8)
interactions $\gamma + p$ at 3.5 GeV with linearly polarized photons, rho^0 asymmetry from, (E), 24:40237
interactions $\gamma + p$ at 3.5 GeV, cross section asymmetry and rho^0 decay angular distributions and asymmetry ratio from rho^0 production in, (E), 25:45645
interactions $\gamma + p$ at 3.5 to 7.5 GeV, additivity assumption in quark model for total hadronic cross sections of, 23:39655
interactions $\gamma + p$ at 3.7 to 17.9 GeV, scintillation counter study of total cross sections for, (E), 24:45409
interactions $\gamma + p$ at 3.7 to 17.9 GeV, total cross sections for, (E), 24:45410
interactions $\gamma + p$ at 335 MeV in spark chamber, cross sections for Compton, (E), 21:42242
interactions $\gamma + p$ at 4 GeV in bubble chamber, meson (eta^0) production from, (E), 22:52922
interactions $\gamma + p$ at 4 to 36 GeV, quark model for multiple π production in, 25:56514
interactions $\gamma + p$ at 4 to 9 GeV, cross sections for rho^0 production in, 23:14951
interactions $\gamma + p$ at 4 to 9 GeV, scintillation counter and spark chamber study of rho^0 production in, 23:16925
interactions $\gamma + p$ at 4.8 to 6.0 GeV in hydrogen bubble chamber, production of multipion final states in, (E), 22:34908
interactions $\gamma + p$ at 5 to 150 GeV, performance of proposed 25-foot bubble chamber for study of hadron production in, 24:50592 (TID-25473(Vol.2), pp 83-7)
interactions $\gamma + p$ at 5 to 17.8 GeV, cross sections for π, eta, rho, and phi production in, (E), 24:24208
interactions $\gamma + p$ at 5 to 7 GeV, rho—ω interference parameters in dipion production in, (E), 25:52991 (DESY-71/37)
interactions $\gamma + p$ at 5.0 to 17.8 GeV, B(1240) production in, (E), 25:14524
interactions $\gamma + p$ at 6.3 to 9 GeV, spectrometer and spark chamber study of cross section ratio of phi production in $\gamma + d$ interactions to phi production in, (E), 25:47711
interactions $\gamma + p$ at 6.3 to 9 GeV, total cross sections and amplitude of phi + N interactions and γphi coupling constant from, (E), 25:47711
interactions $\gamma + p$ at 6.4 to 9.0 GeV, cross sections for phi production in, (E), 25:38640
interactions $\gamma + p$ at 60 to 1450 MeV, dispersion relations for cross sections of Compton, (E/T), 23:23327
interactions $\gamma + p$ at 60 to 750 MeV, differential cross section for Compton, 22:13705
interactions $\gamma + p$ at 600 to 750 MeV, resonance effects in Compton, (T), 21:11751
interactions $\gamma + p$ at 7.4 GeV, rho—ω interference parameters from di-pion production in, (E), 25:53002
interactions $\gamma + p$ at 7.5 GeV in bubble chamber, total hadronic cross sections for, (T), 23:5518
interactions $\gamma + p$ at 8 and 16 GeV, cross sections for forward Compton, (E), 25:38638
interactions $\gamma + p$ at 850 MeV, magnetic spectrometer of asymmetric μ pair production in, (E), 22:22276 (CONF-670923-, pp 409-51)
interactions $\gamma + p$ at high energies in hydrogen bubble chamber, strange particle production from, (E), 22:13638
interactions $\gamma + p$ at high energies, bootstrap prediction for wide-angle Compton, 24:32988
interactions $\gamma + p$ at high energies, dispersion sum rules and Cabibbo—Radicati relation from Compton, 21:33658
interactions $\gamma + p$ at high energies, Drell—Hearn—Gerasimov sum rule for forward, (T), 21:46515
interactions $\gamma + p$ at high energies, fragmentation and duality in inclusive, 25:47795
interactions $\gamma + p$ at high energies, model for vector-meson production in, 25:38701
interactions $\gamma + p$ at high energies, model of rho^0 and phi production in, 23:36884
interactions $\gamma + p$ at high energies, modified coherent-droplet model for meson production in, 23:15025
interactions $\gamma + p$ at high energies, quark model for constant of, (T), 25:14595 (ITF-70-63-P)
interactions $\gamma + p$ at high energies, Regge analysis of particle production in, (T), 25:22728
interactions $\gamma + p$ at high energies, Regge pole description of two-body exchange, 24:24380
interactions $\gamma + p$ at high energies, Regge pole model for total cross sections of Compton, 25:59340
interactions $\gamma + p$ at high energies, Regge pole model for production of neutral vector mesons in, (T), 23:13057
interactions $\gamma + p$ at high energies, Regge residues for extrapolation to electroproduction region for total cross sections of, (T), 25:3312 (NYO-4204-6)
interactions $\gamma + p$ at high energies, review of meson production in, (E), 22:39234 (CERN-68-7(Vol.1), pp 556-70)
interactions $\gamma + p$ at high energies, review of peripheral model for origin of dips and spikes in differential cross sections for exchange, (T), 24:52099
interactions $\gamma + p$ at high energies, review of production of rho, phi, and ω in, (E), 25:52997
interactions $\gamma + p$ at high energies, review of, (E/T), 24:20061
interactions $\gamma + p$ at high energies, test of parton model from inelastic, 24:8592
interactions $\gamma + p$ at high energies, total summation of perturbation series for forward, (T), 25:17499 (JINR-E2-5509)
interactions $\gamma + p$ at high energies, vector dominance model for sum rule connecting photon—vector transition and meson—nucleon interaction with cross section of, 22:20173 (JINR-P2-3704)
interactions $\gamma + p$ at high energies, vector-dominance model and sum rules for, (T), 23:3678
interactions $\gamma + p$ at low energies, C violation in Compton, (T), 21:7485
interactions $\gamma + p$ at low energies, T violation in Compton, 21:37882
interactions $\gamma + p$ at nuclear resonance, real part of Compton amplitude from electron bremsstrahlung and pair production in, 24:13009
interactions $\gamma + p$ at very high energies, spectra of cosmic neutrinos produced in, (T), 24:20110
interactions $\gamma + p$ below 1.5 GeV, freon bubble chamber study of π^+ and π^- production from, 21:33589
interactions $\gamma + p$ below 150 MeV, analysis of experimental data for Compton, 22:20111
interactions $\gamma + p$ below 234 MeV, multipole analysis of π^0 production in, (T), 22:29662
interactions $\gamma + p$ below 40 GeV, proposed experiment on momentum transfer and excitation dependence of deep inelastic Compton, 24:51888 (TID-25473(Vol.4), pp 171-82)
interactions $\gamma + p$ below 400 MeV, review of experiments and theory for Compton, 23:8769 (TID-24667, pp 567-73)
interactions $\gamma + p$ below 5.8 GeV in hydrogen bubble chamber, particle angular and momentum distributions from, 21:27292
interactions $\gamma + p$ below 6 GeV in bubble chamber, resonance production from, (E), 22:15660 (DESY-67/40)
interactions $\gamma + p$ in e + d interactions at high energies, cross sections for particle production in, (E), 25:56405 (DESY-71/33)
interactions $\gamma + p$ in GeV range, design and performance of on-line data acquisition system for studying, 22:367
interactions $\gamma + p$ in helium-3 cloud chamber, meson (π) production in, (E), 23:46592 (LNF-68/73)
interactions $\gamma + p$ in hydrogen bubble chamber, research on, 21:27283 (MIT-2098-299, pp 16-18)
interactions $\gamma + p$ in parton model, cross section for μ^+—μ^- production in Compton, 24:32993
interactions $\gamma + p$ in quark model, relative cross sections for phi and rho production in, 21:11749
interactions $\gamma + p$ in Regge pole model, helicity amplitudes for vector-meson production in forward, 21:37751
interactions $\gamma + p$ in second resonance region, isobar model analysis of single π production in, 25:3313
interactions $\gamma + p$ in SU(6)-quark model, relations between differential cross sections for scalar and vector meson production in, 25:14626
interactions $\gamma + p$ near threshold, π^0 production in, 22:20182
interactions $\gamma + p$ on polarized targets, π angular distribution from production in, (T), 22:50322
interactions $\gamma + p$ to 1500 MeV in heavy-liquid bubble chamber, charged-pion pair production in, (E), 21:25224
interactions $\gamma + p$ up to 5.8 GeV, angular and momentum distributions of kaons, pions, and protons in, 21:13671 (DESY-66/34)
interactions $\gamma + p$, Adler—Fubini sum rule for, 22:48263
interactions $\gamma + p$, antibound state of two π with J = 2 and I = 1 in dispersion sum rules relating coupling constants of 2^+ mesons with integral of quadratic functions of amplitudes of, (T), 25:38708
interactions $\gamma + p$, asymptotic behavior of total cross sections off mass shell for, 25:53093
interactions $\gamma + p$, asymptotic expansion with γ mass tending to infinity for commutators of current density operators for, (T), 24:47413
interactions $\gamma + p$, asymptotic sum rules for photoproduction, 24:28512
interactions $\gamma + p$, branching ratios for vector meson and strange particle production in, 21:25259
interactions $\gamma + p$, collinear SU(4)/sub W/ for amplitudes of π^0 and eta production from, 21:35326
interactions $\gamma + p$, Compton effect in, (E/T), 23:8926 (TID-24667, pp 555-66)
interactions $\gamma + p$, computer program using Monte Carlo method for determining incident beam energy spectrum from electron pairs from, (T), 25:9705 (SLAC-123)
interactions $\gamma + p$, continuous dispersion sum rules for forward Compton, 24:40317
interactions $\gamma + p$, cross section for W pair production in, (T), 23:13061
interactions $\gamma + p$, cross sections for multipion production in, (T), 21:37752
interactions $\gamma + p$, cross sections for polarized Compton, (T), 24:32987
interactions $\gamma + p$, cross sections for vector-meson production in, (T), 21:11750
interactions $\gamma + p$, cross sections for virtual, (E), 24:3500
interactions $\gamma + p$, cross sections from e + p interactions, (E/T), 24:24217
interactions $\gamma + p$, diffraction dissociation for rho production from, (T), 21:46508
interactions $\gamma + p$, dispersion relation calculation of forward Compton amplitude from total cross sections for, (E/T), 24:32986
interactions $\gamma + p$, divergence conditions for meson production from, 21:33640 (JINR-E2-3364)
interactions $\gamma + p$, effects of C and T noninvariance in Compton, 21:18947
interactions $\gamma + p$, electromagnetic contribution to electron pair production from, 21:23321
interactions $\gamma + p$, eta, π, and rho meson production from, (E), 21:29460
interactions $\gamma + p$, fits to differential cross sections for π production in, 25:9727
interactions $\gamma + p$, fixed pole at J = 0 in Compton, 25:17448
interactions $\gamma + p$, fixed pole in virtual Compton amplitude for, 25:14608
interactions $\gamma + p$, high-energy limit for real part of forward Compton, 23:23429
interactions $\gamma + p$, leading light-cone behavior in total cross section for photoabsorption in, (T), 25:7600
interactions $\gamma + p$, lectures on, (T), 25:22726 (INP-712(Vol.1), pp 97-106)
interactions $\gamma + p$, mass and width of Δ(1236) from, 24:18194
interactions $\gamma + p$, meson and baryon resonance production in, 22:46375
interactions $\gamma + p$, model for Pomeranchukon exchange in total cross sections for, 25:36512
interactions $\gamma + p$, model for π production in, 21:9741
interactions $\gamma + p$, multiperipheral production mechanism and duality for rho'(1500) production in, 25:53097
interactions $\gamma + p$, multiple pion production in, (E/T), 22:17897
interactions $\gamma + p$, multiple π production in, 24:35613
interactions $\gamma + p$, neutral vector meson production in, (T), 24:18109 (CONF-690330-, pp 48-60)
interactions $\gamma + p$, Orsay electron linac experimental facility for studying π production in, 23:52089
interactions $\gamma + p$, parity doublet conspiracy of pion from finite energy sum rules in π^+ production in, 22:20183
interactions $\gamma + p$, photon—vector-meson analogy model for differential cross sections for Compton, 23:25557
interactions $\gamma + p$, polarization asymmetry in forward phi production in, (E), 25:38639
interactions $\gamma + p$, polarization effects on production of symmetric lepton pairs in, 22:34904
interactions $\gamma + p$, polarization in vector dominance model for π production in, 22:39419
interactions $\gamma + p$, Pomeranchuk decoupling from ordinary Regge trajectories in vector meson production in, (T), 25:5348 (COO-264-562)
interactions $\gamma + p$, production of heavy lepton in, (T), 23:7116
interactions $\gamma + p$, π^+ production in, (E/T), 21:7450
interactions $\gamma + p$, quantum-electrodynamics predictions for μ pair production in, (T), 21:903
interactions $\gamma + p$, quark model relations for differential cross sections of, 22:44382
interactions $\gamma + p$, Regge behavior and scaling law for asymptotical behavior of total cross sections off mass shell for, (T), 25:45692 (JINR-E2-5778)
interactions $\gamma + p$, Regge pole and quark models for coherent production of neutral vector mesons in, 24:42915
interactions $\gamma + p$, Regge pole model for vector meson production in, 22:37109
interactions $\gamma + p$, Regge pole residues near $\alpha = 0$ in presence of fixed pole effects in, (T), 24:26442
interactions $\gamma + p$, Regge poles for neutral nonstrange 0^- meson production from, 21:21169
interactions $\gamma + p$, Regge recurrence hypothesis and U(6)/sub W/ x O(2)/sub W/ predictions for N*(1688) and N*(1920) production in, 21:37809
interactions $\gamma + p$, relations among amplitudes for production of three mesons in, 21:27407
interactions $\gamma + p$, relations among amplitudes for production of meson pairs in, (T), 21:27407
interactions $\gamma + p$, relations among amplitudes for single meson production in, (T), 21:27407
interactions $\gamma + p$, review of production of several hadrons in, (E), 25:30716
interactions $\gamma + p$, review of resonance and strange particle production in, (E/T), 23:39660
interactions $\gamma + p$, review of S not equal to 0 baryon resonances in, 22:32057
interactions $\gamma + p$, review of vector dominance model for hadron production in, 23:27764 (DESY-69/10)
interactions $\gamma + p$, review on rho, ω, and phi production in, 25:5301 (DNPL/R-7, pp 29-70)
interactions $\gamma + p$, rho, phi, and ω production in, 24:24279
interactions $\gamma + p$, S = 1 baryon states from missing-mass spectrometer study of K^- production from, 21:35250
interactions $\gamma + p$, scintillation counter—spark chamber telescope for studying π^+ production in, 24:14305
interactions $\gamma + p$, search for S = +1 resonances and K^- production in, (E), 25:25286
interactions $\gamma + p$, spin dependence in inclusive, 25:33622
interactions $\gamma + p$, SU(3) symmetry and Regge pole model for differential cross section relations for π^+ and K^+ production in, 22:48347
interactions $\gamma + p$, SU(6) symmetry for meson production in, 21:11793
interactions $\gamma + p$, subtraction constants in sum rules for Compton, 22:15714
interactions $\gamma + p$, Sugawara theory of currents for asymptotic bounds on cross sections for virtual Compton, 24:8589
interactions $\gamma + p$, sum rules for Compton, 23:1615
interactions $\gamma + p$, sum rules for hadron production in, 23:23418

interactions $\gamma + p$, T invariance for Compton, 21:29600 (DESY-67/8)
interactions $\gamma + p$, T-odd spin correlations in Compton, (T), 21:25255
interactions $\gamma + p$, test of quantum electrodynamics from electron-pair production in, 24:32997
interactions $\gamma + p$, threshold conditions for helicity amplitudes for, 21:40172
interactions $\gamma + p$, U(6,6) peripheral absorption model for, 23:34579
interactions $\gamma + p$, unitary symmetry for meson production in, (T), 21:4090 (N-66-21182)
interactions $\gamma + p$, vector dominance and absorption model with U(6,6) couplings for, 24:1540
interactions $\gamma + p$, vector dominance for total cross sections of virtual, (E), 24:3501
interactions $\gamma + p$, vector dominance model for total cross section for hadron production from, 21:31553 (DESY-67/13)
interactions $\gamma + p$, vector dominance model for total hadronic cross sections for, 23:36870
interactions $\gamma + p$, vector dominance model to total cross sections for, (E/T), 23:21038
interactions $\gamma + p$, vector-meson dominance and subtraction constants in dispersion relations for Compton, (T), 23:5516
interactions $\gamma + \pi \rightarrow 2\pi$, coherent dissociation $\pi \rightarrow 2\pi$ in nuclear field for possible measurement of, (T), 22:32084
interactions $\gamma + \pi \rightarrow 2\pi$, parton model for dual amplitude for, 25:43592
interactions $\gamma + \pi \rightarrow$ anti N + N in t-channel, contribution to amplitude for meson resonance production, (T), 22:22357
interactions $\gamma + \pi \rightarrow \gamma + \pi$ near threshold, sum rules, rho dominance, and amplitude of, 22:29665
interactions $\gamma + \pi \rightarrow \gamma + \pi$, dynamical theory for, 21:25287
interactions $\gamma + \pi \rightarrow \gamma + \pi$, $\omega\pi$rho coupling in Veneziano model for Compton, 24:24296
interactions $\gamma + \pi \rightarrow \gamma + \pi$, parametrization of amplitude for Compton, (T), 25:12177
interactions $\gamma + \pi \rightarrow \gamma + \pi$, sum rules and field algebras for Compton, (T), 25:38709
interactions $\gamma + \pi \rightarrow \gamma + \pi$, threshold vector dominance hypothesis for Compton, 22:5544
interactions $\gamma + \pi \rightarrow \gamma + \pi$, Veneziano parametrizations of amplitude for, 23:42624
interactions $\gamma + \pi \rightarrow$ N + anti N at high energies, translation of symmetry properties of helicity amplitudes for polarization in, (E/T), 23:46656
interactions $\gamma + \pi \rightarrow$ N + anti N, analyticity properties of helicity amplitudes of, 22:39341
interactions $\gamma + \pi + N \rightarrow \gamma + \pi + N$, field-theoretic method for feedback in calculations of (n - p) mass difference in amplitude of, 24:26402
interactions $\gamma + \pi \rightarrow \pi + e + \tau$ near threshold, sum rules, rho dominance, and amplitude of, 22:29665
interactions $\gamma + \pi \rightarrow \pi + \gamma$, epsilon$\gamma\gamma$ and f$\gamma\gamma$ coupling constants from finite-energy sum rules for, (T) , 25:56463
interactions $\gamma + \pi \rightarrow \pi + \pi$ and $\gamma + \pi \rightarrow \gamma + \pi$, exchange of meson resonances in, 22:48270
interactions $\gamma + \pi \rightarrow \pi + \pi$ in Veneziano model, π^0 lifetime from, 24:40314
interactions $\gamma + \pi \rightarrow \pi + \pi$, γ—3π coupling constant from off-mass-shell extrapolation of Veneziano amplitude for, 24:26392 (COO-427-98)
interactions $\gamma + \pi \rightarrow \pi + \pi$, hard-meson current algebra and PCAC model for γ—3π coupling constant and form factor for, 25:59382
interactions $\gamma + \pi \rightarrow \pi + \pi$, hard-pion current algebra for, 25:22799
interactions $\gamma + \pi \rightarrow \pi + \pi$, null-spinor and current-conservation gauge conditions for, 24:15522
interactions $\gamma + \pi \rightarrow \pi + \pi$, use of current algebra and PCAC for γ—3π coupling constant in, 22:37114
interactions $\gamma + \pi \rightarrow \pi + \pi$, Veneziano model study of, 23:51892
interactions $\gamma + \pi +$ rho, dispersion relations for upper limit for constant of, 24:28472
interactions $\gamma + \pi \rightarrow$ rho^0 $+ \pi$, parametrization correlating s-channel helicity conservation and mass-dependent phenomena in, (T), 25:17485
interactions $\gamma + \pi$ at high energies, method for measuring total cross sections for, (T), 25:17436
interactions $\gamma + \pi$ at low energies, dispersion theories for π production from, 23:39662
interactions $\gamma + \pi$ with virtual photons, dispersion relations and hard-pion SU(2) x SU(2) current algebra for, 23:15029
interactions $\gamma + \pi$, dispersion sum rules for, 23:1616
interactions $\gamma + \pi$, invariant amplitudes for Compton, (T), 22:50340
interactions $\gamma + \pi$, low-energy theorem and sum rule for Compton, 21:42303
interactions $\gamma + \pi$, low-energy theorems and invariant amplitudes for Compton, 22:50324
interactions $\gamma + \pi$, low-energy theorems for Compton, 22:34905
interactions $\gamma + \pi$, low-energy theorems in S-matrix theory for isovector Compton, 22:34930
interactions $\gamma + \pi$, low-energy theorems to e^4 order for Compton, 22:48272
interactions $\gamma + \pi$, particle interaction constants from amplitudes of, (T), 22:13698
interactions $\gamma + \pi$, π electromagnetic form factor from Veneziano and soft-pion amplitudes for virtual Compton, 23:42593
interactions $\gamma + \pi$, π electromagnetic mass shift and spectral function for, 23:18863
interactions $\gamma + \pi$, sum rules for forward, 23:8784
interactions $\gamma + \pi$, sum rules for virtual Compton, 22:37111
interactions $\gamma + \pi$, use of gauge invariance in formalism of covariant Reggeization for Compton, (T), 24:20104
interactions $\gamma + \pi$, Veneziano model for Compton, 24:24273
interactions $\gamma + \pi$, Veneziano models for virtual Compton, 24:15516
interactions $\gamma + \pi^0 \rightarrow \gamma + \pi^0$, coupling constants for f$\gamma\gamma$ and epsilon$\gamma\gamma$ from finite-energy sum rules for, (T) , 25:43582 (DESY-71/20)
interactions $\gamma + \pi^0 \rightarrow \gamma + \pi^0$, exchange degeneracy of ω—A_2 trajectories in Compton, 24:35631
interactions $\gamma + \pi^+ \rightarrow \gamma + \pi^+$, gauge invariance condition in high virtual-photon mass limit in ladder model for Compton, (T), 24:49403
interactions $\gamma + \pi^+ \rightarrow \gamma + \pi^+$, superconvergent sum rule for coupling constants for epsilon $\rightarrow 2\pi$ and epsilon $\rightarrow 2\gamma$ decays from Compton, (T), 25:7598
interactions $\gamma + \pi^- \rightarrow \gamma + \pi^-$, zero-mass-limit for low-energy theorems and Veneziano parametrization for amplitude of Compton, 23:51883 (UCRL-19220)
interactions $\gamma + \pi^+ \rightarrow \gamma + \pi^+$, zero-mass-limit for low-energy theorems and Veneziano parameterization for Compton, 23:51883 (UCRL-19220)
interactions $\gamma + \pi^+ \rightarrow$ sigma$^+$ $+ \pi^0$, gauge invariance condition in high virtual-photon mass limit in ladder model for, (T), 24:49403
interactions $\gamma +$ rho, direct coupling for, (T), 21:23314 (BNL-994, pp 70-102)
interactions $\gamma +$ sigma $\rightarrow \pi + \pi$, gauge invariance method for amplitudes of, (T), 24:49475
interactions $\gamma + t$, Regge pole and quark models for coherent production of neutral vector mesons in, 24:42915
interactions $\gamma + Z \rightarrow Z + \tau +$ anti τ in photon-neutrino coupling theory, cross sections for, 23:46676
interactions $\gamma + Z \rightarrow Z + \tau +$ anti τ, proof of impossibility of, (T), 23:42592
interactions in carbon, aluminum, copper, and lead at 1.2 to 4.0 GeV, total cross sections for electron pair production in, (E), 22:34832
interactions in condensed media, multiple scattering effects on angular and energy distribution of charged particles produced from, (T), 22:17893
interactions in constant and uniform electric field, scalar-particle pair production from, (T), 22:22360
interactions in constant and uniform electric field, electron pair production from, 22:22360
interactions in e + p deep inelastic interactions, Reggeization scheme for, (T), 25:12148
interactions in electromagnetic field, induced splitting in, (T), 21:21299
interactions in emulsion chamber at 10^{12} eV, production of π mesons in cosmic, 21:37666
interactions in emulsion chambers above 10 TeV, (E), 22:3237
interactions in field of atom below 2.5 MeV, positron spectra and cross sections for pair production in, 23:5571
interactions in gravitational fields, (T), 22:18019
interactions in gravitational fields, cross sections for classical and quantum field theoretic-light and light-particle, (T), 23:51994 (NYO-2262-TA-209)
interactions in intense electromagnetic field, amplitude of elastic, (T), 24:10719
interactions in intense electromagnetic fields, electron pair production from, 21:33642
interactions in liquid xenon at 100 to 2000 MeV, electron—positron shower production from, 23:18783
interactions in nuclear emulsions at 0.4 to 1 GeV, cross sections for, (E), 23:14944
interactions in nuclear field and in atomic field of neon, streamer chamber study of electron pair and triplet production in, 21:42244
interactions in uniform electromagnetic field, probability for elastic, 21:15291
interactions involving, S-matrix theory for, 23:1720
interactions of cosmic background, with protons, (T), 22:45915
interactions of isovector, superconvergence relations from amplitude of, 21:44322
interactions of isovector, with spin-1 targets, non-Abelian Compton, 23:7109
interactions of microwave, with protons at ultra-high energies, calculation of neutrino spectrum from, (T), 23:13073
interactions of polarized, angular asymmetry and cross sections for pair production in, 24:26405
interactions of polarized, multipole analysis of charged-pion production by, 21:33653
interactions of polarized, with free quiescent magnetic moment of elementary particles, (T), 21:42317
interactions of polarized, with spin-1/2 particles, Compton, 22:26610
interactions of polarized, with spinless nuclei, coherent production of eta resonances from, (T), 23:7115
interactions of soft, classical currents for coherent states without infrared divergences, 22:34902
interactions of stellar, with photons in interstellar space, (T), 22:8968
interactions of virtual $\gamma + e \rightarrow \gamma + e$, tensor operators of rank two for SL(2,C) symmetry for Compton, 24:37844
interactions of virtual, with spin-0 target, conformal symmetry constraints on Compton amplitude of, 24:37834 (RLO-1388-577)
interactions of, algebraic simplification in quantum electrodynamics for Compton, 22:20317
interactions of, analytic structure of amplitudes for forward Compton, 25:53055
interactions of, axial-vector current in two-dimensional spinor electrodynamics with nonvanishing fermion mass for, 24:3741
interactions of, conference on, 22:22342 (CONF-670923)
interactions of, contribution to lepton pair production from C-noninvariant, 21:40188 (NP-16949)
interactions of, covariant amplitude as zero-mass limit of helicity amplitude for massive vector boson for, (T), 25:12177
interactions of, covariant formalism of Reggeized differential cross sections for, 24:49358
interactions of, crossing relations for helicity amplitudes of, (T), 25:40983
interactions of, dependence on photon polarization and multiple-scattering effects for azimuthal asymmetry of electron pair production plane from, (T), 24:3583
interactions of, differential-cross-section dip in, 21:15287
interactions of, fixed j-plane singularities in production, 25:14625
interactions of, helicity amplitudes at threshold for photoproduction processes, 23:25565
interactions of, infinite multiplet theory for amplitudes of Compton, 22:17892
interactions of, kinematic constraints and factorization in Regge-pole model for photoproduction processes, 23:25568
interactions of, lepton electromagnetic form factors from, 22:13719
interactions of, low-energy theorems for Compton and photopion production, 22:20192
interactions of, matrix element of rotation in O(4,2) for amplitude of Coulomb, 25:20040
interactions of, model for Pomeranchon for forward elastic Compton, 23:51883 (UCRL-19220)
interactions of, pion and conspirator residues and trajectories in π production from, 22:44355
interactions of, Pomeranchuk exchange and low-energy theorems in Compton, 23:36881
interactions of, potentials and multipole moments for amplitudes of, (T), 25:56455
interactions of, radiative corrections to low-energy theorems for Compton scattering, bremsstrahlung, and π photoproduction from, 24:3563
interactions of, reduction of electromagnetic vector potential to Lorentz group for amplitudes of, 21:21177
interactions of, relation between gauge invariance and zero rest-mass of photons from weak, 22:32103
interactions of, research at Lund Univ., 1970, (E), 25:56643(R) (NP-19018)
interactions of, review of elementary particle property determination from, 22:1403 (SLAC-PUB-355)
interactions of, review of vector meson production in, (E), 24:51879 (DESY-70/32)
interactions of, review of vector meson production in, (E), 22:39236 (DESY-68/29)
interactions of, S-matrix for, 25:12177
interactions of, S-matrix theory for, 22:20178
interactions of, stellar neutrino emission from weak, 24:3605
interactions of, test of Regge trajectory conspiracy from renormalizable perturbation expansion for, 22:37104
interactions of, threshold singularities for Compton, 25:14792
interactions of, total cross sections of hadron production in photon reactions with carbon, copper, deuterium, hydrogen, and lead below 18.3 GeV for study of, (E), 24:52021
interactions of, unitarity and connectedness structure of S-matrix for cancellation of infrared divergences in, 24:33047
interactions of, vector-meson dominance for single π and vector-meson production in, 24:24280
interactions of, wave functions and M-functions for Compton and photoproduction, 24:52018
interactions of, weak, 24:3606
interactions of, zero-mass-limit for kinematics and Veneziano parameterization for amplitudes of, 23:51883 (UCRL-19220)
interactions on complex nuclei, production of lepton pairs via vector meson decay in, (T), 22:32093
interactions p + p at 27 MeV, spin-correlation parameter for, (E), 21:25232
interactions $\pi + N \rightarrow$ rho $+ N^*$, vector dominance model for, 25:30784
interactions to 18 GeV, search for production of new particles in, (E), 22:50281
interactions with 0^+ mesons, form factor and virtual-Compton scattering amplitude in dual resonance model for, 25:53058
interactions with $1/2^+$-octet baryons, quark model for decay angular distribution relations for vector mesons and $1/2^+$-octet or $3/2^+$-decuplet baryons in, (T), 24:10720
interactions with arbitrary spin targets, low-energy theorems for e^4 Compton, 24:12980
interactions with arbitrary spin targets, low-energy theorem for Compton, 24:3561
interactions with arbitrary-spin hadron targets, kinematic singularities of helicity amplitudes for Compton, 22:26608
interactions with arbitrary-spin particles, extension of Kroll—Ruderman theorem for meson (π) production from, 23:44627
interactions with arbitrary-spin particles, Lorentz-covariant theory of gravitation for two-body, (T), 25:33837
interactions with arbitrary-spin particles, low-energy Compton, 23:15030
interactions with background radiation at very high energies in extragalactic space, e, μ, and π pair creation in, 25:30792
interactions with baryons and mesons, sum rules for Compton, 23:8784
interactions with baryons at high energies, vector dominance between vector meson-initiated and, (T), 24:3651 (DESY-69/40)
interactions with baryons in QQ anti Q model, cross-section sum rules and density-matrix analysis for photoproduction in, 24:37693
interactions with baryons, dispersion sum rules for Compton, (T), 21:9731 (JINR-P2-3029)
interactions with baryons, dispersion sum rules for Compton, 21:40184
interactions with baryons, dispersion sum rules for pseudoscalar mesons produced in, (T), 21:4011 (JINR-E2-2931)

interactions with baryons, higher resonance contributions to dispersion sum rules for Compton, 22:48267
interactions with baryons, hyperon magnetic moments from dispersion sum rules for π and K production in, 21:33655
interactions with baryons, O(4,2) symmetry for coupling in, 22:37173
interactions with baryons, review of dispersion sum rules for, 22:11644 (ITF-67-13)
interactions with baryons, saturation in SU(2) and SU(3) of sum rules for Compton, 21:42419
interactions with baryons, statistical model for high-energy, 22:50408
interactions with baryons, superconvergent sum rules for meson production from, 21:21167
interactions with bosons, external magnetic field effects on, 23:51886
interactions with bosons, gauge invariance and Regge pole theory for Compton, 24:8586
interactions with charged point fermions, polarization of recoil fermion in Compton, (T), 23:32678
interactions with charged vector mesons, electrodynamics of field interactions in, 23:42606
interactions with circular-polarized plane electromagnetic wave, electron and boson pair production from, (T), 23:18847
interactions with cosmic rays in Universe, (T), 22:34302
interactions with Coulomb field of heavy nuclei, eta production in, (E), 21:3970(R) (NP-16354)
interactions with deuterons, (T), 21:2605
interactions with electron, effects in opposite-beam e—e studies of, (T), 21:46146
interactions with electron-heavy electron system, coupling constant for, 21:26150 (MIT-2098-299, pp 35-51)
interactions with electrons as dipole, physical creation—annihilation operators in, 23:32674
interactions with electrons in Compton scattering, effect on electron distribution function of, 22:19756
interactions with electrons in standing light waves, stimulated Compton scattering in, (E), 22:20118
interactions with electrons, Compton effect, (T), 21:9324
interactions with electrons, kinetic theory of, 25:14490 (AD-711681)
interactions with electrons, multiple Compton energy losses in, (T), 24:19781
interactions with electrons, relativistic scattering, (T), 22:29102
interactions with electrons, renormalization phenomena in quantum theory for, 21:2019
interactions with elementary particles, electromagnetic current in strong-coupling theory for, 22:5645
interactions with elementary particles, fixed poles in π production, 24:18128
interactions with elementary particles, Regge pole hypothesis for amplitudes of, 22:9553
interactions with external field, quantum electrodynamics at infinite momentum for, 25:25363
interactions with external magnetic field, absorption coefficient and polarization selection rules for γ splitting from, (T), 24:52007
interactions with external static Coulomb field in quantum electrodynamics, 23:51987
interactions with fermions, asymptotic behavior of amplitudes for meson production in, 22:50332
interactions with fermions, pionization in, 25:33672
interactions with field of electromagnetic wave in homogeneous magnetic field, electron pair production from, (T), 25:53083
interactions with gravitational field, neutrino mass from, (T), 25:19966
interactions with gravitational fields, gravitational radiation production from, (T), 22:18022
interactions with gravitons in external gravitational field, use of lasers for studying, 23:10792
interactions with gravitons in Schwinger source theory, 24:24439
interactions with gravitons, effect on gravitational radiation production from mixed Compton effect in, (T), 22:18022
interactions with gravitons, zero-mass-limit for equivalence principle for, 23:51883 (UCRL-19220)
interactions with hadrons at extremely high energies, behavior of partial cross sections and multiplicity of secondaries from, (), 25:22758
interactions with hadrons at extremely high energies, amplitudes for diffractive inelastic, 25:53096
interactions with hadrons at high energies, fixed poles in Compton, (T), 24:45456
interactions with hadrons at high energies, vector meson dominance model for, 21:42338
interactions with hadrons at high energies, vector-meson dominance for range of, (T), 25:53074
interactions with hadrons at high energies, vector-dominance model of, 25:43597
interactions with hadrons in nonrelativistic potential scattering model, 24:47403
interactions with hadrons in polarized nuclei, T violation in, (T), 21:15380
interactions with hadrons in Regge pole model, crossing matrix for helicity amplitudes of, 21:37751
interactions with hadrons, asymptotic behavior for high—q^2 virtual, 25:40929
interactions with hadrons, asymptotic behavior of amplitude of composite meson production in, 23:36880
interactions with hadrons, chiral dynamics for, 22:29678
interactions with hadrons, continuous moment sum rules for single π production in, (T), 25:3327
interactions with hadrons, current algebra sum rules and dynamics for lepton pair production in, 21:11763
interactions with hadrons, diffraction model for production, (T), 24:40322
interactions with hadrons, dual resonance model with minimal gauge principle for, 24:40299
interactions with hadrons, dynamic resonance model for, 25:50101
interactions with hadrons, fixed poles and light cone singularities in amplitudes for virtual Compton, 25:33644
interactions with hadrons, hadron electrodynamics in resonance model for absorption cross sections for, 25:59386
interactions with hadrons, Lorentz invariant formulation of vector-meson dominance in, 25:9723
interactions with hadrons, models for backward production in, 25:40935
interactions with hadrons, parity rule and helicity conservation in rho° production in, 25:59384
interactions with hadrons, presence of sigma(740) in rho-production, (T), 25:22751
interactions with hadrons, radiative corrections and polarization effects contributions to cross sections for, (T), 25:53059
interactions with hadrons, radiative corrections to low-energy theorem for Compton, 24:3563
interactions with hadrons, Regge-pole theory for high-energy limit of Compton, 21:42310
interactions with hadrons, review of, 22:11568 (SLAC-PUB-370)
interactions with hadrons, review of ω—rho interference in hadron production in, (E), 25:17383
interactions with hadrons, review of properties and models of resonance production in, (T), 23:49086
interactions with hadrons, review of, (T), 25:33804 (ITF-71-5-E)
interactions with hadrons, review on mechanisms for, 24:24281
interactions with hadrons, s-helicity conservation in rho° production in, 25:17429
interactions with hadrons, scaling, fixed poles, and sum rules for, 25:14614
interactions with hadrons, sum rules for, 21:15292
interactions with hadrons, sum rules for Compton, 21:15294
interactions with hadrons, vector dominance model for, (T), 22:22344 (CONF-670923-, pp 270-308)
interactions with hadrons, vector-dominance hypothesis and quark model for meson production in, (T), 24:49375
interactions with hadrons, Veneziano model for amplitudes of Compton, 23:49114
interactions with hardonic gauge fields, sum rules from algebra of fields for, 21:37736
interactions with high-energy cosmic rays, energy-loss mechanisms in, (T), 25:55908
interactions with hyperons, quark model commutation relations for sum rules for amplitudes of π production from, (T), 25:14619
interactions with J/sup P/ = 1^- and $3/2^+$ particles, sum rules for Compton, 22:5538
interactions with K-shell electrons, calculation of cross sections for, 21:7013
interactions with leptons, model for, 22:5553
interactions with light nuclei, silicon surface-barrier detector hodoscope for studying pion production in, 24:21019
interactions with massless particles by graviton exchange, cross sections for, (T), 24:45599
interactions with massless particles, cross sections for gravitational, (T), 25:43706
interactions with matter, principles of, 21:45527
interactions with matter, radiative transfer with scattering, 22:52477 (LA-4006)
interactions with meson (π)—proton bound state at low energies, Hamiltonian for forward Compton, 23:39669
interactions with mesons from meson interactions in Coulomb field of nucleus, 22:41823
interactions with mesons, asymptotic behavior of helicity amplitudes from Regge poles for, 24:13143
interactions with mesons, electromagnetic unitarity corrections for high-energy, 24:8591
interactions with mesons, gauge condition in helicity formalism for Compton, (T), 25:22729
interactions with neutral scalar particles, virtual graviton exchange in differential cross sections of gravitational, (T), 24:45592
interactions with neutrinos in hot plasma, (T), 24:44840
interactions with neutrinos in supermassive stars, (T), 24:25831
interactions with neutrinos, astrophysical exclusion, (T), 25:40234
interactions with neutrinos, astrophysical implications of weak coupling, (T), 25:45191
interactions with neutrinos, coupling theory of weak, 25:25389
interactions with nuclear electrostatic fields, with two-photon emission, (E), 21:38300 (NASA-TM-X-1403)
interactions with nuclei with lepton pair production, analysis for interference effects in, (T), 24:52019
interactions with nuclei, research at Notre Dame Univ, 25:1763(R) (COO-427-105)
interactions with nuclei, survey of theories and experiments on, 24:52697
interactions with nucleons and nuclei, bubble chamber for studying π production in, 25:21434
interactions with particles, asymptotic expansion with fixed negative photon mass squared for commutators of current-density operators for amplitude of, 24:37713
interactions with particles, low-energy theorems for amplitudes of Compton, 21:7534
interactions with particles, relativistic kinematics of quasi-elastic, 23:3683
interactions with photons and charged particles near NP 0532, consequences of collision, (E/T), 25:35706
interactions with photons, experimental feasibility of, 21:28953 (CERN-67-15)
interactions with plasma of gas of, energy transfer from Compton collisions in, (T), 24:47256
interactions with polarized particles, structure of amplitude and differential cross sections for, (T), 25:56454
interactions with polarized point spin-1/2 particles, effective differential cross sections for Compton, 23:18843
interactions with pomerons, model for 2π production in, 25:30863
interactions with protons, effects on hyperfine splitting of hydrogen atom, 21:33647
interactions with quantized nonrelativistic electrons, Pauli and Fierz model with infrared catastrophe for, 24:15659
interactions with relic and radiofrequency radiations and magnetic fields in metagalaxy at high and superhigh energies, 24:24304
interactions with scalar bosons, cross sections for, (T), 25:12138 (NYO-2262-TA-222)
interactions with scalar charge-zero particles, review of gauge invariance for amplitudes of 2π production in, (T), 25:53073
interactions with scalar particles via one-graviton exchange, general relativity and quantum linearized field theories for cross section for, 23:23409
interactions with scalar target, Ladder model for asymptotic properties of amplitudes for virtual Compton, 24:13005
interactions with spin-$^1/_2$ baryons, quark model predictions for baryon resonance decay distributions in, 24:32985
interactions with spin-$^1/_2$ particles, helicity amplitudes for unified treatment of vector-meson and, 25:53174
interactions with spin-$^1/_2$ particles, low-energy theorem without C, P, and T invariance for Compton, 23:36869
interactions with spin-$^1/_2$ particles, photon polarization effects on gravitational, (T), 24:3551
interactions with spin-$^3/_2$ target, low-energy theorems for Compton, 24:15517
interactions with spin-0 and -$^1/_2$ particles, Pomeranchuk-exchange contribution to forward Compton, 21:37743
interactions with spin-0 and -$^1/_2$ targets in dispersion theory, low-energy theorems and sum rules for Compton, 22:15727
interactions with spin-0 and -1/2 particles, amplitudes for, (T), 23:8775
interactions with spin-0 particles, photon polarization effects on gravitational, (T), 24:3551
interactions with spin-0 system, low-energy theorem for Compton, 22:50330
interactions with spin-1 charged vector bosons at high energies, dependence on gyromagnetic ratio for total cross section for Compton, 24:6752
interactions with spin-1 target, low-energy theorems for Compton, 23:34559
interactions with spin-3/2 particles, differential and total sections for Compton, (T), 25:5329
interactions with spin-one particles, in variant amplitudes for Compton, 23:15028
interactions with spin-zero target, asymptotic behavior of highly virtual photons from lepton-pair production in, 25:25379
interactions with spinless mesons, non-Lagrangian field theory for, 24:15521
interactions with spinless targets, Regge pole phenomonology for large argument values of S-matrix elements for Compton, 22:20351
interactions with spinor particles, asymptotic behavior of vertex function in theory of nonrenormalizable CP-noninvariant, 22:7538 (JINR-E2-3557)
interactions with spinor particles, asymptotic behavior of vertex function in theory of nonrenormalizable CP-odd, 22:32187
interactions with stable particles and nuclei of arbitrary spin, total-cross-section sum rule for Compton, 22:15720
interactions with static electromagnetic fields, graviton production from, (T), 25:12272
interactions with three-level atoms, kinetics of, (T), 24:49286
interactions with two-fermion spin-1 system at low energies, Hamiltonian for forward Compton amplitude of, 23:39669
interactions with two-fermion system, Hamiltonian for electromagnetic, 23:39669
interactions with vector mesons, formulation of relativistic quark field theory for coupling constants in, 22:29743 (DESY-68/11)
interactions with weak gravitational fields, covariant Green functions of, (T), 25:20094
interference effects from single, in low-intensity beams, (E), 23:30697
ionization of lithium isoelectronic sequence by, (T), 23:20593
localizability of, in quantum mechanics, (T), 21:37629
Lorentz condition and gauge for longitudinal and scalar, 21:27434
magnetic dipole transition form factor of $\gamma N\Delta$ vertex, (E/T), 23:18780 (DESY-68/53)
mass energy transfer and mass energy absorption coefficients for, criticism of existing tabulations of, 25:43434
mass in intense electromagnetic field, enhancement of, (T), 24:10719
mass of, concentric spherical cavities for limits on rest, (T), 25:47787
mass of, effect on resonance frequency of lumped circuits, 25:40920
mass of, experimental test of Coulomb law from finite rest, 25:33623
mass of, gauge invariance with nonzero, 22:39337
mass of, geomagnetic limit on, (E), 22:44305
mass of, magnetic flux of galactic plasma for upper limit on, 25:40921
mass of, method for measuring, (E/T), 25:38711
mass of, method for measuring, (E/T), 25:38712
mass of, method for measuring, (E/T), 25:38710
mass of, pulsar test of, (T), 24:3088
mass of, terrestrial and extraterrestrial limits on, 25:47788
mass of, upper limit for, (T), 22:44374

mass of, upper limit for, (T), 23:51218 (NYO-1932(2)-152)
mass of, validity of special relativity theory for, 23:51984
mass of, very low-frequency parallel-resonance circuits for determining upper limits for rest, (E), 25:14510
measurements of reactor core, use in determining reactor noise, 21:35780
model for, (T), 24:47398
model for, based on breakdown of Lorentz symmetry, 23:44625
momenta of, regular null networks in flat space—time for four-, 22:35119
momentum distribution of pairs of, from positron annihilation in crystalline solids, (T), 21:37118
momentum transfer between, and electrons in rotating stars, effects on magnetic field generation, (T), 24:10243
motion in hyperbolic electrodynamic fields, (T), 21:9334
motion in magnetic fields, operator method for quantum effects in pair production from, 22:3583
motion in refracting medium, (T), 25:59325
motion in static Schwarzschild sphere, geodesic, 24:4980
motion of gases of, in primordial Universe, (T), 24:10358
nonvanishing mean free time of, entropy production associated with, 25:49692
physical meaning of Freundlich—Forbes empirical constant, (T), 22:1373
Planck constant of cosmic, method for determining, (E/T), 25:11665
polarization by circular dielectric infinite cylinders in interstellar space, (T), 25:30213
polarization effects in laser beam Compton scattering on relativistic electrons, 23:36875
polarization from electron reactions with gold and aluminum at 2 MeV, (E), 24:21917
polarization from $\gamma + e$ Compton interactions at high energies in crossed beams, (T), 23:51900
polarization in Compton $\gamma + e \to \gamma + e$ interactions at 412 keV, search for left-right asymmetric, (E), 25:22741
polarization in emission from particle inelastic scattering by nuclei, violation of P invariance in circular, (T), 24:10799
polarization in $n + p \to d + \gamma$ and $n + d \to 3p + \gamma$ interactions, weak-interaction Hamiltonian for, (T), 25:20039
polarization in $\pi^+ (K^+) + e \to \pi^+(K^+) + e + \gamma$ and $\pi^-(K^-) + e \to \pi^-(K^-) + e + \gamma$ interactions, circular, (T), 22:7470
polarization measurement from electron pair production, 22:3241
polarization measurements of, sensitivity of rectangular lithium-drifted silicon detector for, 25:8508
polarization of 2-MeV, design and performance of Compton polarimeter for measuring, 24:21020
polarization of high-energy, method using highly oriented graphite for, (E), 25:3257
polarization of virtual, in interactions of polarized massive leptons, (T), 24:45489
polarization of, dependence of azimuthal asymmetry of electron-pair photoproduction plane for parameters of, (E/T), 24:3583
polarization parameters from intense electromagnetic wave scattering by electrons at high energies, 23:51900
polarization states of, experimental test of hidden-variable quantum theory for, 21:21130
polarization states of, hierachy of idempotent matrices for, 24:1544
polarization tensor from $\gamma + \gamma$ interactions, effect on anomalous magnetic moment of muon, 22:9549
production and interaction data, computer program for, 22:26441 (LA-DC-9215)
production and propagation in upper atmosphere, secondary, (E/T), 25:43235
production by external electromagnetic field, 25:50102
production by positron annihilation in beryllium and lithium hydride, calculation of spectrum for, 23:12530
production by positron annihilation in hydrogen at 80 to 300 MeV, calculation of spectra of, 23:8443
production by real and simulated fallout fields, hazards from angle and energy distribution of, 21:383 (AD-640888)
production cross sections, LAPH computer program for retrieval from Evaluated Neutron Data File B of, 24:31133 (LA-4337)
production from anti $N + N$ annihilation from meteor interactions in atmosphere, (E), 21:9699
production from anti $\tau + \tau$ interactions, spinor theory in general relativity for, 21:27346
production from bremsstrahlung, synchrotron radiation, and Compton scattering in electron interactions at high energies in dilute gases, review of spectrum for, (T), 25:22755
production from cosmic particle reactions with carbon above 100 GeV, inelasticity coefficient for, (E), 21:7448
production from $e^+ + e^- \to 2\gamma$ interactions at high energies, γ circular polarization in, (T), 22:13709
production from $e^+ + e^- \to 2\gamma$ interactions, experimental method for investigating, 21:42306
production from $e^+ + e^- \to \gamma + \gamma$ and $\mu^+ + \mu^- \to \gamma + \gamma$ interactions, calculation of matrix elements with anomalous magnetic moment and polarization effects for, 22:20177
production from $e^+ + e^- \to \mu^+ + \mu^- + \gamma$ interactions, nonlocal interaction theory for circular and linear polarization in, 22:9532
production from electron scattering by diamonds at high energies, angular distribution in, (T), 22:39334
production from graviton interactions with static electromagnetic fields, (T), 25:12272
production from $K^+ \to \pi^+ + \pi^0 + \gamma$ decay in heavy liquid bubble chamber, angular distribution for, (E), 22:7433
production from $p + p \to p + p + \gamma$ interactions, cross sections for, (T), 22:1454
production from pair annihilation, operator method for quantum effects in, 22:3583
production from particle interactions, extension of Low soft-photon theorem for radiative cross sections for, 22:9551
production from positron annihilation in flight, calculation of spectrum for, (E/T), 23:15300 (CEA-CONF-1225)
production from scalar meson interactions with external gravitational fields, classical equation of motion for radiation from quantum falling charge for, (T), 25:25512
production from spin-0 and -1 particle decay, forbidden configurations in three-body, (T), 21:2411
production in anti $K^0 \to \pi^+ + e(\mu^-) +$ anti $\tau + \gamma$ and $K^- \to \pi^0 + e(\mu^-) +$ anti $\tau + \gamma$ decays, soft-pion theorems for spectra of, 24:13020
production in backward $e^+ + e^- \to e^+ + e^- + m\gamma$ interactions at high energies, double-logarithmic approximation for cross sections for, (T), 25:59374
production in backward $e^+ + e^-$ interactions at high energies, integral equation for cross sections from partial waves with multi-Regge poles for amplitudes of, (T), 25:59369
production in cascade showers in intergalactic space, 21:13410
production in cascade showers, Monte Carlo calculation of signal-to-noise ratio for, 22:49078
production in cosmic antiproton—proton interactions below 286 MeV, upper limits and selection rules for, (T), 22:20174 (NP-17316)
production in cosmic nucleon interactions in emulsion chambers at 100 to 1000 TeV, energy spectrum and transverse momentum of, 21:37692
production in $\Delta^+(1236)$ and fireball decay in $p + p \to p + p + \pi^0$ interactions below 1 GeV, spectrum for, (T), 22:20125 (NP-17315)
production in $e + e \to e + e + \gamma$ interactions at 2 x 160 MeV, integral cross section and emission probabilities for, (E), 22:44304
production in $e + p \to e + p + \gamma$ interactions at very high energies, wide-angle, (T), 24:21954 (LAL-1196)
production in $e^+ + e^- \to 3\gamma$ interactions at high energies, spectra and angular distributions in, (T), 23:3677
production in $e^+ + e^- \to \gamma + \gamma$ interactions under astrophysical conditions, spectra for, (T), 22:20175 (NP-17317)
production in $e^+ + e^- \to \mu^+ + \mu^- + \gamma$ interactions, invariant tensor integration for polarization in, (T), 23:27781
production in $e^+ + e^- \to \pi^+ + \pi^- + \gamma$ interactions in storage rings, study of even-charge hadronic systems from, (T), 25:14621
production in $e^+ + e^-$ interactions, invariant tensor integration for polarization in, (T), 23:27781
production in electron pair annihilation, asymptotics of total cross sections for, (T), 25:38706
production in electron reactions with nuclei at high energies, polarization in multiple, (T), 25:1450
production in electron scattering on gold, adsorbed gas effects on, 21:9336
production in electron—photon cascades at 1 to 2 GeV in xenon bubble chamber, fluctuation of characteristics of, (E), 23:42530(T) (ORNL-tr-2174)
production in electron—photon showers from cosmic particle interactions with lead at 200 and 440 MeV, (E), 23:23326(T) (ORNL-tr-1892)
production in elementary particle interactions, relation for amplitudes of weak, 21:13690 (NP-16545)
production in heavy-liquid bubble chamber, electron trajectories for determining, (T), 22:44300 (LAL-1190)
production in $K^+ \to \pi^+ + \pi^0 + \gamma$ decay, for counter and spark chamber study of inner bremsstrahlung mechanism for, (E), 22:39240 (COO-1749-4)
production in liquid scintillators, volume distribution of, 21:17839
production in meson (μ) and proton reactions with diamonds at high energies, interference in, 24:20118
production in meson (μ) reactions with carbon at 9 to 13 GeV/c in spark chamber, test of quantum electrodynamics in, (E), 23:21154
production in $N + N \to \gamma + N + N$ interactions, consistent treatment in one-boson-exchange model for $N + N$ exchange currents for, 23:51950 (DESY-69/28)
production in $N + N \to N + N + \gamma$ interactions, general form of amplitude of, (T), 22:39425 (JINR-P2-3803)
production in $N + N \to N + N + \gamma$ interactions, Low approximation for, (T), 23:13067
production in $N + N \to N + N + \gamma$ interactions, Low approximation for, 22:39426 (JINR-P2-3830)
production in $N + N \to N + N + \gamma$ interactions, review of, (E/T), 25:17372 (UCD-CNL-EX-130)
production in $N + N \to N + N + \gamma$ interactions, review of, (E), 25:59241 (CONF-710915-2)
production in $N + N \to N + N + \gamma$ interactions, review of, (E), 23:25647
production in $N + N \to N + N + \gamma$ interactions, sum rule calculation of velocity-dependent force effect on cross section for, 23:42597
production in $n + p \to \gamma + n + p$ interactions, cross sections and asymmetries for, (T), 25:33615
production in $n + p \to n + p + \gamma$ interactions, Bryan—Scott and Hamada—Johnston potentials for, (T), 25:1463
production in $n + p$ interactions at 14.1 MeV, relativistically covariant models for cross sections for, (T), 25:56526
production in neutrino annihilation of polarized leptons, angular distributions and spectra for, (T), 25:59402
production in nuclear reactions, ENDF formats and procedures for storage of data on, (T), 25:59838 (LA-4549)
production in nucleon interactions above 1000 GeV in emulsions, (E), 23:16952
production in $\tau + e \to \tau + e + \gamma$ interactions, γ energy and angular distribution and radiative corrections for total effective cross sections for, (T), 25:14600
production in $p + d \to p + d + \gamma$ interactions at 156 MeV, cross sections for, (T), 23:51884
production in $p + p \to p + p + \gamma$ and $p + n \to p + n + \gamma$ interactions, potential model calculations of cross sections for, 23:8779
production in $p + p \to p + p + \gamma$ and $p + n \to p + n + \gamma$ interactions, calculation of cross sections for, 23:25549
production in $p + p \to p + p + \gamma$ and $p + n \to p + n + \gamma$ interactions, Kroll—Ruderman theorem for ratio of total cross sections for, 23:32656
production in $p + p \to p + p + \gamma$ and $\pi^- + p \to \pi^0 + n + \gamma$ interactions, Low theorem for, 21:27388
production in $p + p \to p + p + \gamma$ at 10 to 200 MeV, potential model for cross section of coplanar and noncoplanar, 22:22418
production in $p + p \to p + p + \gamma$ at 20 MeV, cross sections and γ angular distributions and energy spectra for, (E), 25:14545
production in $p + p \to p + p + \gamma$ interactions at 10.5 MeV, preliminary results for surface barrier counter study of upper limit of cross section of, (E), 22:39233 (ANU-P-407)
production in $p + p \to p + p + \gamma$ interactions at 64.4 MeV, coplanar cross sections and noncoplanar dependence of, (E), 25:7530
production in $p + p \to p + p + \gamma$ interactions at 99.0 MeV, coincidence methods for study of angular distributions for, (E), 24:3493
production in $p + p \to p + p + \gamma$ interactions at low energies, (T), 23:25548
production in $p + p \to p + p + \gamma$ interactions, covariant formulation of, 23:42605
production in $p + p \to p + p + \gamma$ interactions, $N + N$ interactions below 350 MeV for, (T), 25:14734
production in $p + p \to p + p + \gamma$ interactions, nonrelativistic scattering theory for energy dependence of effective cross sections for, (T), 23:15036
production in $p + p \to p + p + \gamma$ interactions, proton electromagnetic structure effects on cross sections for, (T), 25:17519
production in $p + p \to p + p^* (p^* \to p + \gamma)$ interactions at 204 MeV, cross sections and asymmetries for, (E), 21:33601
production in photon scattering by nuclear Coulomb field at arbitrary energies and small angles, differential cross sections for, (T), 25:5335
production in $\pi^0 \to \gamma + \gamma$ decay in cosmic anti $p + p \to \pi^+ + \pi^- + \pi^0$ interactions below 1 GeV, spectra for, (T), 22:20125 (NP-17315)
production in $\pi^+ + n$ interactions at 2.34 GeV/c in xenon bubble chamber, (E), 25:14560 (JINR-E1-5349)
production in $\pi^- + p$ interactions at rest, angular correlations in, 23:23373
production in π^- reactions with xenon at 2.3 GeV/c, (E), 25:25298 (JINR-P1-5592)
production in $\pi^{+-} + n(p) \to \pi^{+-} + n(p) + 2\gamma$ interactions at high energies, amplitudes for, 23:39644 (ITF-69-38)
production in quantum electrodynamics, theory of sources for, 24:5263
production in quark fusion, (T), 25:9075
production in silver foils bombarded by nonnormal-incidence electrons, 21:13387
production in strong interactions at high energies in amplitude fast variation region, (T), 25:982 (ITEF-764)
production in strong interactions at high energies in amplitude fast variation region, (T), 25:5357
production in thin crystals, review of, 22:44371
production of circularly polarized, by polarized proton inelastic scattering by nuclei, 24:30731
production of coherent, from electron reactions with nuclei at 6 GeV in crystals, (E/T), 23:30694 (DESY-69/14)
production of cosmic, in cascades from particle interactions at high energies at 2900 m in emulsions, vertical intensity and spectrum for, (E), 22:22286
production of double, in electron reactions with nuclei at high energies, soft-photon approximation for radiative corrections to cross sections for, (T), 25:33620
production of electron—photon showers in layered media, calculations for, 24:15512
production of electron—photon showers in photon reactions in xenon bubble chamber at 20 to 300 MeV, (E), 24:15444(T) (ORNL-tr-2257)
production of electron—photon showers, cascade theory for, 21:46509
production of electron—photon showers, from cosmic meson (μ) interactions, (E), 21:29040
production of heavy, in electromagnetic interactions, indefinite metric for cross sections of, (T), 25:56547 (NYO-1932(2)-200)
production of heavy, in $K^- + p$, $\pi^- + p$, and anti $p + p$ interactions, (E/T), 21:2424
production of high-energy, by accelerators for use in therapy, 21:43474
production of monochromatic multi-GeV beam of, experimental facilities of SLAC linear accelerator for, 23:44767
production of monochromatic, using VEP-1 storage ring for calibrating total absorption counters, 21:40327
production of pairs of, from graviton decay in external electromagnetic and gravitational fields, 24:18127
production of polarized and monochromatic beams of, methods for, 22:22278 (CONF-670923-, pp 527-55)
production of showers of, in $\pi^- + p$ interactions at 1.5 GeV/c, spark chamber study of, (E), 22:34851
production of wide-angle, in electron reactions with nuclei at high energies, angular dependence of cross sections for, (E), 25:14529

production of wide-angle, in photon Compton scattering by nuclei, Glauber theory of multiple scattering for corrections for, (T), 25:19955
propagation and splitting in external electromagnetic field, nonlinear Lagrangian for, 25:7718
propagation and splitting in external electromagnetic fields, 24:42843 (NYO-3829-54)
propagation in expanding universe, (T), 24:15121
propagation in external electromagnetic fields, vacuum refraction index for, (T), 21:13738
propagation in external magnetic fields, (T), 22:5482
propagation in nonlinear electrodynamics, Lagrangians and equations of motion for, 24:20205
propagation in solar time-dependent gravitational field, general relativistic Doppler correction for, (T), 23:51993 (NYO-2262-TA-208)
propagation in static and solar gravitational field in general relativity, formula for frequency shift in, 22:39480
propagation of charged, (T), 24:46975
propagation of cosmic, through far-infrared radiation field, (T), 23:30369
propagator as function of charge and energy for, renormalization-group and Kaellen—Lehmann representation restrictions on analytical properties of, 24:20106
propagator for, hadronic contributions to, 23:23416
propagator in quantum electrodynamics for, μ^+—μ^- pair production in electron reactions with carbon at 4.9 GeV for test of, (E), 24:37605
propagator in rho-dominance model, 25:9846
propagators in quantum electrodynamics for, macrocausal, 24:3751
properties of electron—photon component of extensive air showers, (T), 23:10467
properties of photon tachyons in disappearing Fresnel wave, strong correlation between Cherenkov effect and, (T), 25:59573
properties of real and virtual, (T), 25:3331
properties of, (T), 23:12997
properties of, linear representation of spinors by tensors for zero-mass Dirac equation for, 21:27319
quantum field operators for, equivalence of free external field method, 23:39794
quantum field theory for coherent states of field of, 22:5637
quantum field theory for soft, functional methods in, 21:15399 (NYO-2262-TA-147)
quantum theory of multiphoton processes, double-photon contribution in, 22:20101
radiation fronts from, in gases, (E), 23:48652
radiative corrections to electron—photon vertex, fourth-order, 24:26408
radiative transfer in dispersive medium, 22:41217
range of virtual, in deep inelastic e + p scattering, (T), 24:40319
reaction with aluminum at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions (γ, n) D with tritium, analysis using Irving wave function and final-state interaction, 25:38869
reactions (γ,2d) with helium-4, cross section for, (T), 24:22066
reactions (γ,2n) and (γ,3n) with barium-138 at threshold to 30 MeV, cross sections for, (E), 23:44890 (UCRL-71827)
reactions (γ,2n) with copper-63 at 19.74 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,2n) with copper-63 at threshold to 26 MeV, cross section for, (E), 23:15396
reactions (γ,2n) with copper-65 at 17.82 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,2N) with double-magic nuclei, general formalism in terms of partial wave analysis for two-nucleon potential scattering for, 23:42982
reactions (γ,2p) with helium-3, final-state nucleon interactions in, (T), 21:23410
reactions (γ,2p2n) with helium-4 at 25 to 170 MeV, cross sections for, (E), 24:8834
reactions (γ,2pn) with aluminum-27 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,3n) with copper-65 at 28.66 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,3pn) with silicon-28 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,4p3n) with phosphorus-31 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,5p3n) with sulfur-32 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,6p5n) with chlorine-35 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,8p7n) with potassium-39 at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,9p7n) with calcium-40 to 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
reactions (γ,α) on beryllium, carbon, and cellophane, pulse-height spectra from, (E), 25:59734
reactions (γ,α), (α,t), and (γ,n) with calcium-48 at 39 to 55 MeV cross sections for, (E), 23:46953
reactions (γ,d) and (γ,2p) with helium-3, calculations using Cabibbo—Radicati sum rule, (T), 22:3603
reactions (γ,d) and (γ,n) with helium-3, cross sections for, (T), 22:7631
reactions (γ,d) and (γ,p) with nuclei at 700 to 1200 MeV, mass-number dependence of cross sections for, (E), 24:3858
reactions (γ,d) with helium-4 at 1 to 100 MeV, cross-section calculations including d—d final-state interactions, (T), 25:5543
reactions (γ,d) with helium-4, dispersive calculation using Omnes—Muskhelishvili equation of cross sections for, (T), 25:59698
reactions (γ,d) with helium-4, effect of d + d final-state interaction in, (T), 25:7801
reactions (γ,d) with lithium-6, E1 transitions in, (T), 23:25950
reactions (γ,e) with fourteen elements at 1 to 10,000 keV, compilation of differential cross sections for, (T), 23:39292 (EGG-1183-1406)
reactions (γ,e^+e^-) with beryllium at 4.1 to 6.1 GeV, phase of rho^0 production in, (E), 25:47718
reactions (γ,e^+e^-) with beryllium at 4.1 to 6.1 GeV, phase of rho^0 production in, (E), 25:47718
reactions (γ,e^+e^-) with beryllium, coherent interference between rho and ω decays in, (E), 25:47718
reactions (γ,e^+e^-) with nuclei, vector dominance model for rho—ω mixing in, 25:59364
reactions (γ,f) with gold and lead at 350 to 1000 MeV, angular distributions for fragments in, (E), 24:30755 (LUNP-7003)
reactions (γ,f) with gold, mercury, and thallium at 300 to 1000 MeV, cross sections for, (E), 25:50737
reactions (γ,f) with heavy nuclei at 0.1 to 5 GeV, giant resonance in yields and integral cross sections for, (E), 25:59794
reactions (γ,f) with nuclei, description of near-barrier, 25:5850
reactions (γ,f) with nuclei, excitation characteristics in, (T), 24:5437(T) (BNL-tr-169)
reactions (γ,f) with thorium-232 at 90 MeV, liquid-drop-model calculations of heavy-fragment masses in, (T), 25:56787
reactions (γ,f) with uranium-233 and uranium-238 at 12 MeV, angular distributions of fission fragments from, (E), 21:7805
reactions (γ,f) with uranium-238 at 35 MeV, liquid-drop-model calculations of heavy-fragment masses in, (T), 25:56787
reactions (γ,f) with uranium-238, analysis using dynamic collective model, (T), 25:15198
reactions (γ,f) with uranium-238, asymmetry and anisotropy in, (T), 23:47026
reactions (γ,f) with uranium-238, cross sections from dynamic collective model of, 25:20499
reactions (γ,He-3) with helium-4 at 20 to 80 MeV, cross sections for, (E), 25:36671
reactions (γ,n) and (γ,2n) at 10 to 50 MeV, 1000-liter liquid scintillation detector for determining cross sections for, 22:16881
reactions (γ,n) and (γ,2n) with gold-197 at 0.3 to 1 GeV, yields from, (E), 25:17357
reactions (γ,n) and (γ,2n) with magnesium-26 at 11 to 28.50 MeV, cross sections for, (E), 23:44851 (UCRL-71828)
reactions (γ,n) and (γ,2n) with polarized holmium-165 at 10 to 20 MeV, cross sections for, (E), 23:40047
reactions (γ,n) and (γ,2n) with uranium-238 in giant resonance region, cross sections for, 24:47665
reactions (γ,n) and (γ,2n) with yttrium-89 at 12 to 25 MeV, cross sections for, (E), 24:43272
reactions (γ,n) and (γ,np) with copper-63 at threshold to 25 MeV, cross sections for, (E), 23:15396
reactions (γ,n) and (γ,p) with A = 54 through 106 nuclei in giant resonance region, collective-model calculation of angular distributions and nucleon escape widths for, (T), 23:13236
reactions (γ,n) and (γ,p) with calcium-40, ground-state differential cross sections for, (T), 23:39990
reactions (γ,n) and (γ,p) with carbon-12 and oxygen-16 in giant resonance region, coupled-channels calculations of angular distributions and excitation functions for, (T), 25:45938
reactions (γ,n) and (γ,p) with carbon-12, leading to low-lying mass-11 states, continuum calculation of, (T), 25:17729
reactions (γ,n) and (γ,p) with helium-4, multipole analysis using two-particle unitarity and isotopic phase shifts, 25:53525
reactions (γ,n) and (γ,p) with lithium-6 up to 20 MeV, analysis using single-particle model, (T), 25:12417
reactions (γ,n) and (γ,p) with nitrogen-15 in giant resonance region, total cross sections for, (T), 22:53106
reactions (γ,n) and (γ,p) with nuclei at 40 to 140 MeV, shell model analysis with short-range nucleon-nucleon correlations, (T), 25:28488
reactions (γ,n) and (γ,p) with nuclei, method of accounting for continuous nucleon spectrum from, (T), 25:53770
reactions (γ,n) and (γ,p) with oxygen-16, shell-model analysis of, (T), 23:49340
reactions (γ,n) and (γ,p) with ultrahigh-energy cosmic helium-4 nuclei by universal radiation field, 23:32894
reactions (γ,n) and (γ,pn) with barium-138 at threshold to 30 MeV, cross sections for combined, (E), 23:44890 (UCRL-71827)
reactions (γ,n) and (γ,pn) with magnesium-24 at 16 to 30 MeV, resonance parameters and cross sections for, (E), 25:50672
reactions (γ,n) and (γ,pn) with nitrogen-14 at threshold to 30 MeV, cross sections for combined, (E), 23:44890 (UCRL-71827)
reactions (γ,n) in beryllium following uranium-235 fission, (E/T), 23:10912(T) (ORNL-tr-2046)
reactions (γ,n) with A = 25 to 208 nuclei near threshold energies, cross sections for, (E), 25:56702
reactions (γ,n) with aluminum-27 at 15 to 35 MeV, cross section for, (E), 23:52124
reactions (γ,n) with beryllium-9 near threshold, R-matrix calculations of cross sections for, (T), 22:48454
reactions (γ,n) with beryllium-9 up to 17 MeV, cross-section calculations using single-particle model with Saxon—Woods potential, (T), 24:10931
reactions (γ,n) with beryllium-9, interpretation of 1.7-MeV resonance in, 25:38882 (JAERI-1205, pp 41-3)
reactions (γ,n) with beryllium-9, threshold cross sections for, (E), 21:7773 (UCID-15036)
reactions (γ,n) with calcium-40, carbon-12, fluorine-19, lead-208, and oxygen-16, analysis by Feynman triangle diagrams of fine-structure peaks in cross sections for, (T), 25:56676
reactions (γ,N) with carbon-12 and oxygen-16 at high energies, direct reaction model analysis of, 24:35818
reactions (γ,n) with carbon-13 at threshold to 21 MeV, calculations using Saxon—Woods potential for direct, (T), 23:37112
reactions (γ,n) with carbon-13 below 17 MeV, analysis using particle-core model, (T), 24:5391
reactions (γ,n) with chromium-52, iron-56, and magnesium-25 at threshold energies with isobaric analog excitation, cross sections for, (E), 23:49356 (UCRL-71831)
reactions (γ,n) with copper-63 at 10 to 25 MeV, cross section for, (E), 22:20578 (WASH-1079)
reactions (γ,n) with copper-63 at 10.84 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,n) with copper-65 at 9.91 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,n) with deuterium at less than 180 MeV, effects of electromagnetic retardation in, (T), 24:10906
reactions (γ,n) with deuterium, differential cross section and polarization for, (T), 23:1787
reactions (γ,n) with deuterons, analysis of sum rules using Yale and Hamada—Johnston potentials, (T), 24:26584
reactions (γ,n) with helium-3 at threshold to 30 MeV, cross section for, (E), 24:45729
reactions (γ,n) with lead-207 and -208 and iron-56 and -57 at threshold, review of cross sections and photon doorways for, (E), 25:59784 (UCRL-73336)
reactions (γ,n) with lead-208 at 7 MeV, cross section for, (E), 23:46990 (UCRL-71830)
reactions (γ,n) with lead-208 at threshold energy, resonance effects in, (T), 25:12562
reactions (γ,n) with light nuclei at 150 to 950 MeV, mesonic contributions to, (T), 25:50825
reactions (γ,n) with light nuclei, mesonic contributions to, (T), 25:17957 (LUNP-7010)
reactions (γ,n) with lithium-7 at 7.25 to 50 MeV, cross sections for, (E), 21:21470
reactions (γ,n) with magnesium-24 at 17 to 27.5 MeV, cross sections for, (E), 23:44851 (UCRL-71828)
reactions (γ,n) with neodymium-148, -150, samarium-150, -152, and -154 at 8 to 22 MeV, cross sections for, (E), 24:8904
reactions (γ,n) with oxygen-16 at 15.8 to 22.15 MeV, mathematical-statistics analysis of cross sections and yield curves for, (T), 25:28186
reactions (γ,n) with oxygen-16 at 20 to 26 MeV, 3p—3h coupling in intermediate structure of giant dipole resonance from, (T), 25:36678
reactions (γ,n) with oxygen-16, giant dipole resonance in, (T), 21:9934
reactions (γ,n) with tritium at 15 MeV endpoint energies, polarization in, (T), 23:21241 (ZFK-130, pp 213-19)
reactions (γ,n), (γ,2n), (γ,3n), (γ,pn), and (γ,p2n) with holmium-165 at 8 to 29 MeV, total cross section for, (E), 23:28304 (WASH-1124)
reactions (γ,n), (γ,2n), (γ,3n), and (γ,4n) with tantalum-181 up 36 MeV, cross sections for, (E), 23:5913
reactions (γ,n), (γ,2n), and (γ,3n) at 300 to 1000 MeV, cross sections for, (E), 21:37667
reactions (γ,n), (γ,2n), and (γ,3n) with holmium-165, lanthanum-139, and terbium-159 up to 30 MeV, cross sections for, (E), 23:5913
reactions (γ,n), (γ,p), (γ,d) and (γ,α) with beryllium-9, cross-section calculations using shell model, (T), 23:30941
reactions (γ,n), (γ,p), (γ,d), and (γ,α) with beryllium-9 below 35 MeV, cross sections and particle spectra for, (T), 23:19161 (UJV-2092-F)
reactions (γ,n), (γ,p), and (γ,np) with helium-4, nucleon correlation in wave functions for calculating, 21:29868
reactions (γ,n), (γ,pn) and (γ,2n) with magnesium-26 at 10 to 30 MeV, resonance parameters and cross sections for, (E), 25:50672
reactions (γ,n), (γ,pn), and (γ,2n) with natural magnesium at 11 to 28 MeV, total cross sections for, (E), 25:50672
reactions (γ,n)2α with beryllium-9, cross-section calculations using Dirac model, (T), 25:12399
reactions (γ,n)p with deuterium, analysis of retardation in, (T), 25:20254
reactions (γ,n_0) and (γ,p_0) with oxygen-16, cross section calculations for, (T), 24:6838
reactions (γ,n2p) with helium-3, sum rules for, (T), 21:25423 (JINR-P4-3222)
reactions (γ,np) with copper-63 at 16.72 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,np) with copper-65 at 17.11 MeV, structure and energy dependence of differential cross sections for, (E), 25:28260
reactions (γ,np) with lithium-6, cross-section calculations using electric dipole approximation, (T), 22:39581
reactions (γ,np) with nuclei, description using Majorana exchange forces, (T), 23:13317
reactions (γ,np) with nuclei, nuclear correlation studies by, (E/T), 23:9034 (TID-24667, pp 480-1)
reactions (γ,p) and (γ,α) with nuclei, testing nucleon correlations by, (T), 23:9023 (TID-24667, pp 330-45)
reactions (γ,p) at 25 to 55 MeV, absolute differential and total cross sections, and angular distributions for, (E), 25:12362
reactions (γ,p) with aluminum-27 at 85 MeV, proton angular and energy distribution from, (E), 25:12501

reactions (γ,p) with beryllium-9 at 56 MeV, proton spectra and cross sections for, (E), 25:28194
reactions (γ,p) with boron-11 at 15 to 32 MeV, cross sections for, (E), 23:25816
reactions (γ,p) with carbon-12 and -13, cross sections for, (E/T), 25:28193
reactions (γ,p) with carbon-12 and -13, cross sections for virtual, (E), 25:3566 (SAL-14)
reactions (γ,p) with carbon-12 at 30.5 MeV, angular distribution of, 21:42278 (IS-1600, Paper 6)
reactions (γ,p) with copper at 17.6 MeV, proton spectra from, 25:20141
reactions (γ,p) with deuterium, cross section for, (T), 23:5807
reactions (γ,p) with deuterium, theory of, (T), 23:9020 (TID-24667, pp 271-86)
reactions (γ,p) with helium-3 and -4 at 200 to 500 MeV, differential cross sections for, (E), 24:52403
reactions (γ,p) with helium-3 at 15 MeV endpoint energies, polarization in, (T), 23:21241 (ZFK-130, pp 213-19)
reactions (γ,p) with helium-3, continuum shell-model calculation of cross section for, (T), 23:7342
reactions (γ,p) with helium-3, cross sections for, (T), 21:13802
reactions (γ,p) with helium-4, angular correlations between momentum transfer and emitted nuclear fragments in, (T), 23:45006
reactions (γ,p) with helium-4, cross-section calculations using particle-hole-core model, (T), 22:44796
reactions (γ,p) with helium-4, cross-section calculations using modified Irving wave functions, (T), 23:19144
reactions (γ,p) with helium-4, effects of velocity-dependent nuclear forces on, (T), 22:48449
reactions (γ,p) with nitrogen-13 at threshold to 18 MeV, calculations using Saxon—Woods potential for direct, (T), 23:37112
reactions (γ,p) with nitrogen-15 at 5 to 35 MeV, excitation functions for, (T), 25:5595
reactions (γ,p) with nuclei, cross-section calculations using velocity-dependent potentials, (T), 22:32485
reactions (γ,p) with nuclei, design and performance of lithium-drifted silicon spectrometer for studying, 23:29212
reactions (γ,p) with nuclei, research at Ames Laboratory on, 23:1580 (IS-1900, Paper 6)
reactions (γ,p) with oxygen-16 at 22 MeV, proton angular distribution for, (E), 23:8939
reactions (γ,p) with oxygen-16, analysis using eigenchannel theory, 24:20443
reactions (γ,p) with strontium-88 and zirconium-90 at 12 to 24 MeV with isobaric analog excitation, cross sections for, (E), 24:1835
reactions (γ,p), (γ,n) and (γ,pn) with helium-4 at 0 to 170 MeV, multipolarity in, (T), 22:48443
reactions (γ,p_0) with carbon-12 at 20 to 27 MeV, proton angular distributions for, (E), 24:13292
reactions $(\gamma,p2n)$ with tritium, sum rules for, (T), 21:25423 (JINR-P4-3222)
reactions (γ,pn) with nuclei, microscopic description of, (T), 24:49940
reactions (γ,π) with helium-3 and tritium, effect of $T = 3/2$ and S' admixtures on, (T), 23:17071
reactions (γ,π) with helium-3 and tritium, magnetic moment anomaly from, 22:13928
reactions (γ,π) with nuclei, current commutation relations for, (T), 23:19342
reactions (γ,π) with nuclei, inelastic meson (π) production with excitation of giant resonance analogs in, (T), 24:11029
reactions (γ,π) with nuclei, nuclear distortion effects on π emitted from, (T), 24:40712
reactions (γ,π) with nuclei, nuclear structure research by, (T), 23:9037 (TID-24667, pp 497-502)
reactions (γ,π) with nuclei, π—nucleus final-state interactions in, (T), 25:50865
reactions (γ,π) with nuclei, use in research on nuclear properties, (E/T), 23:9036 (TID-24667, pp 495-6)
reactions (γ,π^0) with helium-4 at 260 to 800 MeV, cross sections for coherent, (E), 24:12924
reactions (γ,π^0) with helium-4 at 335 MeV, differential cross sections for coherent, (E), 24:18067
reactions (γ,π^0) with helium-4, angular distribution for, (T), 21:38222
reactions (γ,π^0) with helium-4, Brueckner effect in, (T), 23:25793
reactions (γ,π^0) with helium-4, cross-section calculations for, (T), 23:44828
reactions (γ,π^0) with lead at 1.1 GeV, Primakoff method for determining meson (π^0) lifetime from angular distribution from, (E), 24:10658
reactions (γ,π^0) with lithium-7, differential cross sections for elastic and inelastic, 25:1707
reactions (γ,π^+) and (γ,π^-) with carbon-12, analysis using transition amplitude from impulse approximation, (T), 25:12407
reactions (γ,π^+) with aluminum-27 at 750 MeV, yields and cross sections for, (E), 22:48207
reactions (γ,π^-) with boron-11 at 150 to 700 MeV, yields and cross sections for, (E), 25:9620 (LUNP-7007)
reactions (γ,π^-) with boron-11 at 750 MeV, yields and cross sections for, (E), 22:48207
reactions (γ,π^-) with boron-11, effect of Coulomb potential on, (T), 24:49396
reactions (γ,π^-) with carbon-12, partial transitions and bound-state nitrogen-12 production in, (T), 22:26605
reactions (γ,π^+) with helium-3, cross-section calculations using impulse approximation, (T), 24:1741
reactions (γ,π^+) with nuclei at 150 to 700 MeV, yields and cross sections for, (E), 25:9620 (LUNP-7007)
reactions (γ,π^+) with oxygen-16, impulse approximation for transition amplitude for, (T), 21:35427
reactions (γ,π^+) with oxygen-16, nuclear distortion effects on π emitted from, (T), 24:40712
reactions (γ,π^+) with oxygen-16, partial transitions in π^+ and bound-state nitrogen-16 production in, (T), 22:26605
reactions (γ,π^-) with strontium-88 at 230 MeV, cross sections for, (T), 22:52959
reactions (γ,π^+) with vanadium-51 at 750 MeV, yields and cross sections for, (E), 22:48207
reactions (γ,π^-2n) with vanadium-51 at 750 MeV, yields and cross sections for, 22:48207
reactions (γ,π^-p) with carbon-12 at 650 to 1000 MeV, spark chamber and scintillation counter telescope study of proton polarization in, (E), 25:38635
reactions (γ,rho^0) with aluminum, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with beryllium, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with cadmium, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with carbon, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with carbon-12 at 4.0 to 16.0 GeV, P and P' trajectory-exchange model for differential cross sections of, (T), 25:22739
reactions (γ,rho^0) with copper, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with copper-64 and lead-208, angular distributions for, (T), 22:39429
reactions (γ,rho^0) with gold, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with indium, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with lead, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with silver, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with tantalum, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with titanium, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,rho^0) with uranium, nuclear radius from cross sections for, (E), 25:47718
reactions (γ,t) with helium-4 at 20 to 80 MeV, cross sections for, (E), 25:36671
reactions (γ,t) with lithium-6 at 17 to 30 MeV, cluster-model analysis for reaction mechanism in, (T), 24:45739
reactions (γ,t) with lithium-6 up to 25 MeV, integrated cross section for, (E/T), 23:15351
reactions (γ,x) with sulfur-32, structure of the giant dipole resonance in, (T), 24:28762
reactions (γ,xn) with iodine-127, cross sections for, (T), 23:32941
reactions (γ,xn) with lead-208, niobium-93, strontium-, and yttrium-89, cross sections for, (E), 25:17932
reactions (γ,xn) with nickel-58 and nickel-60, calculations using compound nucleus model with shell-independent parameters, (T), 23:39997
reactions (γ,xn) with tin isotopes and indium at 10 to 30 MeV, cross sections for, (E), 24:13379
reactions (γ,xn) with yttrium-89 and zirconium isotopes, cross sections for, (E), 21:12027(R) (UCRL-50001-66-2)
reactions (γ,xn) with zirconium isotopes at yttrium-89, cross sections for, (E), 21:7773 (UCID-15036)
reactions (γp) with carbon-12 at energies less than 80 MeV, cross sections for, (E), 23:46919
reactions (γp) with oxygen-16, angular distributions for, (E), 23:49398 (WASH-1127)
reactions (p,n) with nuclei up to 30 MeV, review of, (E), 25:20448
reactions at 845 to 2000 GeV in emulsions, angular and lateral structure of electromagnetic cascade production from, (E), 22:3242
reactions in boron-11 with pair production, effect of nuclear moments on, (T), 24:18139
reactions in copper at 1 to 6 GeV, Monte Carlo calculation for electromagnetic shower production from, 21:40164 (DESY-67/16)
reactions in emulsions, restricted energy loss from ionization, (E), 24:12926
reactions in liquid xenon at 35 to 2000 MeV, cross sections for e^+—e^- pair production in, (E), 25:52994
reactions in xenon bubble chamber at 20 to 300 MeV, properties of electron—photon showers from, (E), 24:15444(T) (ORNL-tr-2257)
reactions near interface of two materials, determination of ionization and absorbed energy from, (T), 23:51887
reactions of 14-MeV-neutron secondary, in atmosphere at 8,000 to 50,000 ft, Compton electron currents from, (T), 25:5497
reactions of high-energy, astrophysical implications of, (T), 22:29102
reactions of, chiral dynamics for differential cross sections for single π production, 23:32698
reactions of, target orientation by excitation from, 24:13235
reactions with $A = 3$ nuclei, analysis using dipole sum rule and realistic potentials, 25:3768
reactions with $A = 3$ nuclei, isospin sum rules for, (T), 24:1909
reactions with air, copper, and lead at 100 to 10,000 MeV, shower distribution tables for, 24:26407
reactions with alkali metals, ionization in, (T), 21:11447
reactions with alkali metals, review of ionization in, (E/T), 24:21586
reactions with aluminum and beryllium at 45 MeV, cascade calculations of energy deposited by, 25:7587 (ORNL-4631)
reactions with aluminum at 4.25 and 5.5 GeV, K_2^0 production in, 22:7427
reactions with aluminum at 5.4 GeV, total cross section for hadron production in, 25:27953
reactions with aluminum at 85 to 250 MeV, cascade model for differential cross sections for, 24:15791 (JINR-P2-4808)
reactions with aluminum, asymmetry ratio of cross section of pair production in polarized, (E), 24:26405
reactions with aluminum, beryllium, and copper at 1.5 to 5 GeV, cross sections for K^0 production in, (E), 25:3248
reactions with aluminum, carbon, and copper at 1.5 to 36 GeV, cross section for pair production in, (E), 23:14955
reactions with aluminum, carbon, and copper, meson (π^-) and (π^+) energy spectrum and π^-/π^+ ratio from, (E), 24:18069
reactions with aluminum, carbon, and hydrogen at 3.2 to 4.9 GeV, rho^0 mass and production cross sections from, (E), 22:13631 (DESY-67/30)
reactions with aluminum, carbon, and hydrogen at 3.2 to 4.9 GeV, cross sections for rho^0 production, (E), 22:9501
reactions with aluminum, carbon, and hydrogen at 3.2 to 4.9 GeV, cross sections for rho^0 production in, (E), 22:26546 (DESY-F-32/4)
reactions with aluminum, carbon, and lead, rho^0—ω^0 interference and $\omega \to \pi^+ + \pi^-$ decay amplitude from, (E), 25:40861
reactions with aluminum, carbon, copper, and hydrogen at 3.0 and 5.0 GeV, rho^0 production in, (E), 22:20114
reactions with aluminum, carbon, copper, and lead at 560 MeV, emulsion study of dependence on atomic weight for yields of π^+ and π^- from, (E), 25:59248
reactions with aluminum, carbon, lead, silver, tantalum, and zinc at 5.7 GeV, $\omega\gamma$ coupling constant and ωN cross section from ω production in, (E), 25:3247
reactions with aluminum-27, beryllium-9, carbon-12, and copper-64 at 8.8 GeV, amplitude for rho + N interactions for calculation of rho γ coupling constant from Glauber model for rho^0 production in, (E/T), 25:47790
reactions with aluminum-27, beryllium-9, carbon-12, and copper-64 at 8.8 GeV, Glauber model of multiple scattering for rho—γ coupling constant and rho + N amplitude from, (T), 24:40298 (INR-P-1166)
reactions with aluminum-27, carbon-12, and lead-207 at high energies, cascade mechanism for, (T), 24:20097(T) (ORNL-tr-2280)
reactions with anthracene crystals, transitions from, 21:5071
reactions with argon, krypton, and xenon, angular distribution of electrons from, (E), 24:10386
reactions with argon—ethylene mixtures, ionization efficiencies for, 24:39852 (ORNL-4446, pp 197-205)
reactions with atomic gases, book on ionizing, 21:11409
reactions with atomic hydrogen, yields from, (E), 22:36754
reactions with atomic K, L, and M shells, calculation of cross sections and polarization correlations for, (T), 21:46164
reactions with atomic K, L, and M shells, tables of calculated photoelectric cross sections for energies 10 to 3000 keV, 21:37097 (NYO-3829-9)
reactions with atomic nitrogen, cross sections for, (E), 22:36752
reactions with atomic oxygen, ionization cross sections for, (E), 22:36753
reactions with atomic sodium, ionization in multi-, (E), 23:12521 (NP-17745)
reactions with atomic systems, multichannel ionization of, (T), 21:11443
reactions with atoms and ions having one and two electrons, review, (E/T), 24:19749
reactions with atoms and ions, computer program for calculation of ionization cross sections for, 25:2903
reactions with atoms and ions, electron correlation effects in sudden-approximation treatment of multiple excitation accompanying ionization by, 23:32170
reactions with atoms and molecules, excitation and ionization in, review, 23:16678
reactions with atoms and molecules, interactions between ionization processes in, (T), 25:998
reactions with atoms at 1 to 2000 keV, compilation of calculated cross sections for, 21:33159
reactions with atoms at 1.073 to 2.615 MeV, effects of atomic-electron screening on cross sections for pair production in, (T), 25:56275
reactions with atoms at high energies, production of electron pairs in, 24:19734
reactions with atoms in optical and rf ranges, effects on atomic energy levels, (E), 23:30332
reactions with atoms of $Z > 71$, ionization cross sections for subshells 4d, 4f, 5p, 5d, 5f, and 6p in, (T), 24:1265
reactions with atoms, analytical approximations for total pair production cross sections for, 23:5557 (SC-RR-68-619)
reactions with atoms, calculation of angular distribution of electrons from, review, 24:17670
reactions with atoms, close-coupling method for calculation of cross sections for continuum processes in, 24:23806
reactions with atoms, Coulomb effects on ionization in, (T), 22:29236
reactions with atoms, excitation from multiple, (T), 25:40376
reactions with atoms, Monte Carlo calculations for coherent and incoherent scattering and pair production—annihilation in, 22:38730 (UCRL-14190)
reactions with atoms, peculiarities of Hartree—Fock cross section for ionization in, 23:22920
reactions with atoms, resonance fluorescence from, 22:19800
reactions with atoms, review of coherence effects in, 24:19734
reactions with atoms, review of coherence in, (E/T), 23:36478
reactions with atoms, review of experimental methods for study of, 23:30336
reactions with atoms, review of transitions involving, (E/T), 23:36477
reactions with atoms, sudden-approximation calculations of cross sections for multiple excitation accompanying ionization in, 24:21573

reactions with atoms, theory and review of experiments for, 21:46390 (CEA-Bib-95)
reactions with barium-138 and nitrogen-14 at 10 to 30 MeV, photoneutron total cross sections for, (E), 23:49398 (WASH-1127)
reactions with beryllium at 1.5 to 5.7 GeV, total cross section for hadron production in, 25:27953
reactions with beryllium at 15 GeV, high-mass dipion pair production in, (E), 25:17433
reactions with beryllium at 16 GeV, cross sections for high mass di-pion pair and upper limits for cross sections for vector meson production in, (E), 25:14511
reactions with beryllium at 4.1 to 6.1 GeV, phase of rho^0 production amplitude in, (E/T), 25:14527
reactions with beryllium at 4.1 to 6.1 GeV, ratio of real to imaginary amplitude of rho + N interactions from spectrometer study of phase of rho^0 production amplitude in, (E), 25:1364 (DESY-70/39)
reactions with beryllium at 4.1 to 6.1 GeV, real-to-imaginary amplitude ratio for rho + N interactions from phase of rho production amplitude in, (E), 25:3256
reactions with beryllium at 5.1 GeV, coherent interference between rho $\rightarrow e^+ + e^-$ and $\omega \rightarrow e^+ + e^-$ decays from production in, (E), 25:14528
reactions with beryllium at 5.1 GeV, structure of e^+e^- mass spectrum for coherent interference between rho and ω decays from, (E), 25:3288
reactions with beryllium at 5.1 GeV, vector meson—photon coupling constant ratio and rho—ω phase difference from structure of e^+e^- mass spectrum from rho and ω production in, (E), 25:1365(R) (DESY-70/40)
reactions with beryllium at 5.5 to 9.5 GeV, counter—spark chamber study of differential cross sections for K_1^0 production in, (E), 25:19887
reactions with beryllium at 6.8 GeV, cross sections for ω production in, (E), 25:47719
reactions with beryllium, carbon, and titanium at 1.5 to 5.7 GeV, energy dependence of cross sections for hadron production in, (E), 25:25281 (DESY-71/5)
reactions with beryllium-9 at 166 MeV, differential cross sections for π^0 production in, (T), 24:12984
reactions with beryllium-9 at 5.12 GeV, rho—ω interference and phase of amplitude in, (E), 24:24290
reactions with beryllium-9 in giant resonance region, shell-model analysis using harmonic oscillator potential with residual interaction, (T), 23:21238 (ZFK-130, pp 190-3)
reactions with boron-11, isospin of the giant resonance in, (E/T), 25:5554
reactions with calcium, carbon, and aluminum at 250 MeV, magnetic spectrometer study of meson (π^+) and (π^-) yields from $\gamma + p \rightarrow n + \pi^+$ and $\gamma + n \rightarrow p + \pi^-$ interactions in, (E), 24:18066
reactions with calcium-40 and carbon-12, coupled-channel calculations of giant dipole resonance in one-particle—one-hole continuum approximation, (T), 23:40141
reactions with calcium-40 and carbon-12, cross sections for, (E), 21:17394
reactions with calcium-40 and oxygen-16 in giant resonance region, nuclear surface effects in, 23:30954
reactions with calcium-40, carbon-12, and lithium-7 at 150 to 250 MeV, quasi-deuteron disintegration in, (E), 21:27529
reactions with carbon above 4 GeV, quantum electrodynamics test from wide-angle electron pair production in, (E), 23:51839
reactions with carbon and hydrogen, proposed experiment using range absorber method for production of very asymmetric μ pairs in, 22:44299 (DESY-68/34)
reactions with carbon and lead at 5 to 7 GeV, rho—ω interference parameters in dipion production in, (E), 25:52991 (DESY-71/37)
reactions with carbon and lead at 7.4 GeV, rho—ω interference parameters from di-pion production in, (E) , 25:53002
reactions with carbon at 1 to 2 GeV, differential cross sections for $\pi^+\pi^-$ production in, (E), 22:22287
reactions with carbon at 1.0 to 1.8 GeV, search for 1^- daughters of 2^+ and 3^- mesons of rho trajectory in, (E), 23:49029
reactions with carbon at 1.5 and 2.0 GeV, meson (π^0) lifetime from, (E), 24:15450
reactions with carbon at 1.5 to 5.7 GeV, total cross section for hadron production in, 25:27953
reactions with carbon at 1.8 GeV, cross section for phi production in, (E), 22:26551
reactions with carbon at 1.800 GeV, cross sections for meson (phi) production in, (E), 23:42534
reactions with carbon at 1.802 GeV/c, spectrometer study of rho—ω interference and phase in electron pair production in, (E), 24:28469
reactions with carbon at 10 GeV, test of quantum electrodynamics from $\mu^+\mu^-$ production in, (E), 24:32959
reactions with carbon at 150 to 550 MeV, wide-angle electron—positron pair production in, (E), 21:44251
reactions with carbon at 154 MeV, magnetic multipole amplitudes for π^0 production in, (E/T), 23:25545
reactions with carbon at 2.3 and 5.6 GeV, electron—positron pair production in, (E), 24:40233
reactions with carbon at 2.5 to 8.0 GeV, cross section asymetry and rho^0 decay angular distributions and asymmetry ratio from rho^0 production in, (E), 25:45645
reactions with carbon at 20 to 30 MeV, absorption cross section measurement for, 24:29547
reactions with carbon at 4.2 GeV, spectrometer study of magnitude and phase of rho—ω interference in π^+ and π^- production in, (E), 24:28471
reactions with carbon at 470 to 1070 MeV, μ pair production in, (E), 22:34825 (AD-665851)
reactions with carbon at 5.652 GeV, search for dipion resonances in mass range from 1360 to 1780 MeV from, (E), 23:42533
reactions with carbon at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions with carbon at 5.8 to 6.6 GeV/c, magnetic spectrometer study of (1550) enhancement in mass spectrum for $\pi^+ - \pi^-$ pairs produced in, (E), 25:19886 (DESY-70/61)
reactions with carbon at 6 GeV, rho^0 production and rho$^0 \rightarrow \mu^+ + \mu^-$ decay from, (E), 24:6683
reactions with carbon at 6.0 GeV, search for leptonic quarks in, (E), 21:37664
reactions with carbon at 6.0 GeV, spectrometer study of 930- to 1770-MeV invariant-mass μ^+—μ^- pair production in, (E), 25:1375
reactions with carbon at 6.0 to 7.4 GeV, spectrometer study of ratio of real-to-imaginary part of phi + N amplitude from phase and forward cross sections for phi production in, (E), 25:47706 (DESY-71/26)
reactions with carbon at 6.2 GeV, rho^0 production from, (E), 23:14952
reactions with carbon at 6.3 to 9 GeV, total cross sections and amplitude of phi + N interactions and γphi coupling constant from, (E), 25:47711
reactions with carbon at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with carbon at 6.8 GeV, cross sections for ω production in, (E), 25:47719
reactions with carbon at 7 to 9 GeV, validity of quantum electrodynamics at small distances in μ pair production in, (E), 23:30695
reactions with carbon at 8.3 and 9.8 GeV, yields of phi resonances from, (E), 24:40235
reactions with carbon at high energies, cross sections for asymmetric electron pair production from, (E), 25:1360 (AD-708409)
reactions with carbon at high energies, spectrometer study of enhancement in high-invariant-mass π^-—π^+ pair production in, (E), 25:14526
reactions with carbon at high energies, test of quantum electrodynamics predictions from asymmetric electron pair production in, (E), 23:23340
reactions with carbon below 260 MeV, scintillation counter study of momentum distribution of mesons (π^+) and (π^-) from, (E), 24:18071
reactions with carbon below 6.02 GeV, rho^0 production from, (E), 21:44245
reactions with carbon below nucleon threshold, production of eta in, (E/T), 23:32605
reactions with carbon dioxide, nitrogen, nitrogen oxide (NO), and nitrogen, review of excitation and ionization in, (E), 23:16629 (D-1-82-768)
reactions with carbon, copper, and hydrogen at 4.2 to 5.7 GeV, cross sections for antiproton production in, (E), 21:44247
reactions with carbon, copper, and lead, nonforward production of rho^0 from, (T), 22:48262
reactions with carbon, copper, and lead, test of vector-dominance model for rho production and decay in, (E/T), 22:11572
reactions with carbon, copper, and tin at 6 GeV, cross sections for rho^0 production in, (E), 24:8557
reactions with carbon, copper, deuterium, hydrogen, and lead below 18.3 GeV, study of photon interactions from total cross sections for hadron production in, (E), 24:52021
reactions with carbon, cross sections for asymmetric electron-pair production in, (E), 24:45407
reactions with carbon, cross sections for μ^+—μ^- pair production from phi, rho, and ω decay and Bethe—Heitler process in, (E), 25:45672
reactions with carbon, gas Cherenkov and shower counter study of electron pair invariant mass from, (E), 22:22276 (CONF-670923-, pp 409-51)
reactions with carbon, optical theorem for lower limit on cross sections for rho production in, 22:44354
reactions with carbon, phi $\rightarrow \mu^+ + \mu^-$ branching ratio, production of vector mesons, and quantum electrodynamics predictions from, (E), 24:51898
reactions with carbon, polarization asymmetry in forward phi production in, (E), 25:38639
reactions with carbon, radiative corrections to electron pair production in, 21:2425
reactions with carbon, spectrometer study of $\omega \rightarrow 2\pi$ decay from rho—ω interference in, (E), 25:17360
reactions with carbon, SU(2) x·SU(2) chiral symmetry for rho$\pi\pi$ coupling from rho production in, (E/T), 22:35055
reactions with carbon, test of quantum electrodynamics from electron—positron pair production in, 23:7169 (DESY-68/55)
reactions with carbon, validity of quantum electrodynamics from wide-angle electron pair production in, (E), 21:29624 (NP-16779)
reactions with carbon, vector dominance model for relative phase of rho and ω production in, (T), 25:5327
reactions with carbon, virtual Compton scattering in electron-pair production in, (E/T), 25:3252
reactions with carbon, virtual Compton scattering amplitude from electron-pair yields in, (E), 22:5495
reactions with carbon, wide-angle electron pair production in, (E), 21:3970(R) (NP-16354)
reactions with carbon-12 and oxygen-16, isolation of Regge trajectories in amplitudes of meson production in, (T), 25:36453
reactions with carbon-12 and oxygen-16, model analysis of, (T), 25:56661
reactions with carbon-12 at 160 to 440 MeV, differential cross sections for π^0 production in, (T), 25:33621
reactions with carbon-12 at 166 MeV, differential cross sections for π^0 production in, (T), 24:12984
reactions with carbon-12 at 30 to 40 MeV, total cross section for, (E), 24:1762
reactions with carbon-12 at 4.1 GeV, rho—ω interference and phase of amplitude in, (E), 24:24290
reactions with carbon-12 below 320 MeV, cascade model for differential cross sections for, 24:15791 (JINR-P2-4808)
reactions with carbon-12, calculation of dipole resonance with wave functions in intermediate coupling approximation in, (T), 23:40112
reactions with carbon-12, helium-3, helium-4, nitrogen-16, and oxygen-16, analysis using multipole sum rules, (T), 24:15787
reactions with carbon-12, multiple-scattering theory for $\pi^+\pi^-$ in, 24:1591
reactions with colliding atoms, double excitation in, (T), 22:29212
reactions with complex nuclei above 2 GeV, review of, 24:21963
reactions with complex nuclei above 230 MeV, determination of multipole amplitudes from π^0 production in, 25:33645
reactions with complex nuclei at 1.1 GeV, total eta—N cross section from, (E), 23:18782
reactions with complex nuclei at 3 to 16 GeV, incoherent π production in, 25:22734
reactions with complex nuclei at 4 and 8 GeV, vector-dominance predictions for incoherent meson (rho^0) production from, (E), 23:44584
reactions with complex nuclei at 4 to 8.8 GeV, dipion mass spectra, angular distributions, rho—γ coupling constant, and rho + N total cross sections from rho production in, (E), 25:45631
reactions with complex nuclei at 6.2 GeV, rho^0 production from, (E), 23:14952
reactions with complex nuclei at 6.8 GeV, coherent and incoherent mechanisms for ω production in, (E), 24:30429
reactions with complex nuclei at 8 and 16 GeV, π^+, π^-, and K^+ production in, (E), 24:5234
reactions with complex nuclei at 9 GeV, rho—N cross section and γrho coupling constant from rho production in, (E), 23:16924
reactions with complex nuclei at high energies, nuclear radii and density distribution from magnetic spectrometer study of rho^0 production in, (E), 24:24215
reactions with complex nuclei at high energies, review of rho, phi, and ω production in, (E), 25:52997
reactions with complex nuclei at high energies, Woods—Saxon radii from magnetic spectrometer study of rho^0 production in, (E), 24:24230
reactions with complex nuclei below 230 MeV, determination of multipole amplitudes from π^0 production in, 25:33646
reactions with complex nuclei in rho + rho' model, rho^0 production in, 24:8598
reactions with complex nuclei, amplitude of rho^0 coherent production in nonforward, (T), 22:29653 (DESY-68/15)
reactions with complex nuclei, cross sections for coherent production of mesons (eta) in, 24:45457
reactions with complex nuclei, effects of anomalous real parts of amplitude on rho—ω phase in, 25:45704
reactions with complex nuclei, extension of optical model analysis of coherent production of rho^0 in, 24:24275
reactions with complex nuclei, ω—γ coupling constant and ω—N scattering amplitude from, (E/T), 25:40860
reactions with complex nuclei, possible explanation of discrepancies in cross sections for, (T), 23:42957 (LNF-69/18)
reactions with complex nuclei, pseudoscalar meson production in, (E), 24:24278
reactions with complex nuclei, real part of rhoN scattering amplitude from, 24:1541
reactions with complex nuclei, relative phase angle in leptonic decay of rho, ω, and phi from production in, (E/T), 24:33005
reactions with complex nuclei, review of particle production in, (E/T), 24:20061
reactions with complex nuclei, review of rho^0 production in, (E/T), 24:51894
reactions with complex nuclei, review on rho, ω, and phi production in, 25:5301 (DNPL/R-7, pp 29-70)
reactions with complex nuclei, vector meson production in, 24:24279
reactions with complex nuclei, vector-dominance and optical models for, 23:42616
reactions with compounds and mixtures at 10 keV to 100 GeV, parameters for, 24:3492 (NSRDS-NBS-29)
reactions with concrete shielding, neutron transport calculations for, 23:27676
reactions with conducting materials at 1.25- or 0.66-MeV, low-energy electron spectra from, (E), 22:31985
reactions with conducting materials, fluence of low-energy electrons produced in and emitted from, 22:43114
reactions with copper at 250 to 1000 MeV, depth distribution of absorbed energy from, (E), 24:24220
reactions with copper at 5.4 GeV, total cross section for hadron production in, 25:27953
reactions with copper at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with copper at 6.8 GeV, cross sections for ω production in, (E), 25:47719
reactions with copper, intranuclear cascade model and electron—photon cascade calculations for nucleon and meson (π) production from, 23:49074 (ORNL-4443)
reactions with cosmic nuclei at 0.010 to 1 TeV/nucleon in emulsions, fragmentation without visible particle production from, (E), 22:3236 (INR-792/VI/PH)
reactions with cosmic protons and nuclei in supernova explosions, quasistellar objects, and pulsars, 24:5020
reactions with deuterium at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with deuterium metastable atoms of single, detection of two-photon emission from, (E), 24:37242
reactions with deuterium, closure-approximation validity for rho^0 production in, (T), 25:5336
reactions with deuterium, cross-section calculations using sum rules, (T), 22:32486

reactions with deuterium, deuterium hydride, and hydrogen molecules, dissociation cross sections for absorption from all vibrational levels of ground electronic state into Lyman and Werner continua, (T), 24:4994
reactions with deuterium, effects of nonlocality of nucleon—nucleon potential on integrated electric-dipole cross sections for, 25:25818
reactions with deuterium, helium, and hydrogen at 2 to 10000 MeV, corrections to total pair production cross sections for, (T), 24:20093 (DESY-70/3)
reactions with deuterium, helium-3, and helium-4, survey of research on, 25:18022
reactions with deuterium, helium-3, and tritium, Regge pole and quark models for neutral vector meson production in, 24:20095 (ITF-69-87)
reactions with deuterium, helium-3, helium-4, and tritium, bremsstrahlung-weighted E1 cross sections for disintegration, (T), 25:20252
reactions with deuterons, effects of momentum-dependent potentials on cross sections for, (T), 23:34716
reactions with deuterons, multiple-scattering analysis of total cross sections for, 23:42626
reactions with diamond crystals, electron pair production in, 21:18444
reactions with diamond single crystals, pair production cross sections for, 21:39793 (DESY-67/23)
reactions with dielectric solids, photon—plasmon coupling in, 25:19757 (ORNL-4584, pp 58-73)
reactions with double-closed-shell nuclei, effects of SU(4) breaking on charged meson (π) production in, 24:37842
reactions with doubly closed-shell nuclei, computer program for coupled-channel calculation of cross sections in one-particle—one-hole approximation for, 24:30872 (RT/FI-(69)29)
reactions with electrons, forced level shifts and energy renormalization in, (T), 25:43518
reactions with electrons, heavy particles, and photons, bibliography for 1969 on, 25:2901 (ORNL-AMPIC-13)
reactions with electrons, heavy particles, and photons, bibliography for July through December 1968 on, 23:32155 (ORNL-AMPIC-12)
reactions with electrons, heavy particles, and photons, bibliography for January through June 1965 on, 23:48732 (ORNL-AMPIC-4)
reactions with elements and water at 0.01 to 20 MeV, angular distributions and cross sections for, 21:5529 (AHSB(S)R-109)
reactions with elements having Z = 1 to 100 at 1 keV to 10 MeV, calculated differential and total cross sections and polarization correlations for, 23:20668
reactions with elements Z = 1 to 100 at 1 keV to 100 MeV, tables of cross sections for coherent and incoherent scattering, pair production, and photoelectric ejection in, 25:14409
reactions with europium-153, gadolinium-160, holmium-165, and tungsten-186 at 8 to 29 MeV, photoneutron cross sections for, (E), 24:11000
reactions with gaseous molecules and high-temperature vapors, ionization cross sections for, 23:17103(R) (ANL-7481)
reactions with gaseous molecules, isotope effects on ionization from, 23:817 (ANL-7360, pp 1-67)
reactions with gases, research program on energy deposition during ionization in, 24:35177(R) (GA-10135)
reactions with gold at 5.4 GeV, total cross section for hadron production in, 25:27953
reactions with gold, uranium, and tantalum, scattering cross sections for 662-keV, 22:36701 (AD-663424)
reactions with ground-state atomic hydrogen, theory for ionization by, 22:52497
reactions with H_2^+, dissociation cross sections from, (E/T), 22:7134
reactions with hafnium-179, excitation cross sections for, (E), 25:5690
reactions with heavy deformed nuclei in giant resonance region, analysis using hydrodynamic model, (T), 24:18460
reactions with heavy elements, x-ray yields from L subshells in, (E), 23:32171
reactions with heavy nuclei at high energies, Glauber theory of multiple scattering for cross sections for total photon absorption and vector meson and π^- and π^+ production in, (T), 25:19955
reactions with heavy nuclei at high energies, lectures on rho and ω production in, (T), 25:22726 (INP-712(Vol.1), pp 97-106)
reactions with heavy nuclei at high energies, total cross sections for, (T), 24:10700(T) (SLAC-Trans-102)
reactions with heavy nuclei, Drell—Trefil theory extension for rho^0 coherent production in electron reactions with heavy nuclei for amplitudes of rho^0 production in, (T), 25:5336
reactions with heavy nuclei, review of hadron production from, (E), 23:51876 (DESY-69/21)
reactions with helium 1^1S and 2^1S states at 0.20 to 2.40 and 3.15 to 3.30 Ry, cross sections for ionization in, (T), 25:11717
reactions with helium 1^1S_0 and 2^1S_0 states, cross sections for ionization in, (T), 25:52611
reactions with helium and helium-like ions, calculation of resonances between first and second ionization thresholds in, using diagonalization method, 25:9239
reactions with helium at 186 A, probability of simultaneous excitation and ionization in, (E), 23:20685
reactions with helium at 2.62 MeV in streamer chamber, pair and triplet production from, (E), 25:30717
reactions with helium at 80 eV and 5 keV, cross sections and oscillator strengths for excitation and ionization in, (T), 24:17695
reactions with helium atom, ionization cross section for, (T), 21:11414
reactions with helium excited 2S atoms, cross sections for three-photon ionization in, (E), 25:11734
reactions with helium metastable atoms, ionization in, (T), 25:47337
reactions with helium, asymptotic cross sections for simultaneous excitation and ionization and for double excitation in, (T), 25:7175
reactions with helium, calculation of cross section for double ionization in, using Hylleraas wave function, 24:21556
reactions with helium, cross section for ionization in double, (T), 21:27000
reactions with helium, evaluation of oscillator strength for ionization in, using dipole length and velocity formulations, 25:9205
reactions with helium, excess electron ejection by, (E), 25:5060 (NP-18484)
reactions with helium, polarization effects in absorption cross sections for, 24:51450
reactions with helium, total pair-production cross section from incoherent-scattering function for, (T), 22:44361
reactions with helium, unitary symmetry for meson production in, (T), 21:4090 (N-66-21182)
reactions with helium-3 and tritium with two- and three-body final states, cross sections for, (T), 22:9776
reactions with helium-3 and tritium, analysis for nuclear structure effects in photodisintegration, (E), 24:24499
reactions with helium-3 and tritium, cross-section calculations using separable potentials for two- and three-body photodisintegration, (T), 22:18118
reactions with helium-3 and tritium, cross-section calculations using modified Feshbach wave function and velocity-dependent potential, (T), 23:21243
reactions with helium-3 and tritium, simplifications for formulation of partial and total disintegration from, (T), 23:39666
reactions with helium-3 and tritium, structure determination from, (T), 21:38384
reactions with helium-3 to 800 MeV cross sections for single and double π production in, (E), 23:8721
reactions with helium-3, analysis using effective interaction, (T), 24:33110
reactions with helium-3, cloud chamber study of meson (π) production in, (E), 23:46592 (LNF-68/73)
reactions with helium-3, model analysis of, (E/T), 25:22970
reactions with helium-4 at 160 to 450 MeV, calculation of differential cross sections for π^0 production in, (T), 23:15020
reactions with helium-4 at high energies, model independent analysis for separation between exchange of natural and unnatural parity in π production in, (T), 25:53184
reactions with helium-4, calculation of integrated cross section using velocity-dependent potential, (T), 21:15476 (CONF-660221-, pp 156-60)
reactions with helium-4, calculation of the integrated cross section for, (T), 22:29902
reactions with helium-4, cross section for Λ-H^4 and K$^+$ production in, (T), 23:27777
reactions with helium-4, cross sections for Λ-He^4 and K^0 production in, (T), 23:27777
reactions with helium-4, cross-section calculation using two-body velocity-dependent potentials, (T), 22:9773
reactions with helium-4, integrated and bremsstrahlung-weighted cross sections for photodisintegration, (T), 25:23083
reactions with helium-4, relations among amplitudes for meson production in, (T), 21:27407
reactions with helium-4, sum rules for, (T), 22:44605
reactions with hydrogen and deuterium molecular ions, dissociation cross sections for, (E/T), 22:38759
reactions with hydrogen and helium at low to high energies, total pair production cross sections for, (T), 24:20092 (DESY-70/2)
reactions with hydrogen and nitrogen at 6 GeV, anti p production in, (E), 21:3970(R) (NP-16354)
reactions with hydrogen and nitrogen, energy distribution of electrons from auto-ionization in, (E), 23:48723
reactions with hydrogen at 1 to 2 GeV, differential cross sections for $\pi^+\pi^-$ production in, (E), 22:22287
reactions with hydrogen atom, analysis of multiphoton ionization, (T), 22:5050
reactions with hydrogen atom, cross section equation for two-photon ionization, 23:14644
reactions with hydrogen atoms at 860 to 700 A, Lyman-α fluorescence from dissociation in, (E), 24:37233
reactions with hydrogen atoms in ground state, numerical results for ionization by, 23:46263
reactions with hydrogen atoms in various initial states, differential and total cross sections for ionization in, (T), 24:17685
reactions with hydrogen atoms, bound—bound transitions in, (T), 22:50037
reactions with hydrogen atoms, calculation of radial transition matrix elements for, 25:58770
reactions with hydrogen atoms, perturbation-theory calculations of bound—bound and bound—free transitions in multi-, 25:55875
reactions with hydrogen atoms, tables of ionization cross sections for, 22:2780(T) (UCRL-Trans-10134)
reactions with hydrogen ions (H$^-$), effects of charged-particle interactions on absorption and ionization in, (T), 24:10392
reactions with hydrogen ions (H$^-$), many-body calculation of cross sections for electron detachment in, 25:33082
reactions with hydrogen to produce molecular ions, 22:5809(R) (ANL-7354)
reactions with hydrogen, ionization by multi-, (T), 23:1176
reactions with hydrogen, nitrogen, and oxygen molecules, angular distribution of electrons from, (E), 24:10386
reactions with hydrogen, sum rules for, 23:23418
reactions with indium-115, cross sections for, (E), 25:25770
reactions with interstellar grains, defect production by, (T), 23:41871
reactions with krypton and xenon at 300 to 2500 eV, absorption cross sections for, (E), 22:31597 (ORNL-4238, pp 105-15)
reactions with krypton and xenon, bound states in ionization from, 22:31634
reactions with lead at 1.1 GeV, nucleon distribution and π^0 mean free path in nuclei from π^0 production in, 25:43595
reactions with lead at 1.33 and 1.17 MeV, search for tachyons in, (E), 23:46593
reactions with lead at 1.5 and 2.0 GeV, meson (π^0) lifetime from, (E), 24:15450
reactions with lead at 15 to 100 MeV, electron—photon cascade from, (T), 22:9410 (ORNL-4192)
reactions with lead at 250 MeV, equipment for measuring fission fragment angular distributions from, 21:287
reactions with lead at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions with lead at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with lead at 6.8 GeV, cross sections for ω production in, (E), 25:47719
reactions with lead at 85 to 320 MeV, cascade model for differential cross sections for, 24:15791 (JINR-P2-4808)
reactions with lead below 1.1 GeV, spark chamber and scintillation counter study of meson (π^0) lifetime from, (E), 23:32637
reactions with lead, silver, and zinc at 4.0 to 5.5 GeV, eta production cross section and decay width from, (E) , 21:44253
reactions with lead, upper limit for production of faster-than-light particles in, (E), 22:44303
reactions with lead, virtual Compton scattering amplitude from electron-pair yields in, (E), 22:5495
reactions with lead-208 at 7 to 16 MeV, continuum shell-model calculation of total cross sections for, (T), 25:25780
reactions with lead-208, analysis using eigenchannel reaction theory and continuum shell model, (T), 25:56800
reactions with light mirror nuclei, isospin sum rules for T splitting of giant resonance for, 24:1882
reactions with light nuclei, model for rho^0 coherent production in, (T), 25:5336
reactions with light nuclei, time-of-flight spectrometer for angular distribution measurements of neutrons from, 24:27401
reactions with liquid helium II, electron ejection from bubble states in, (E), 22:1128
reactions with liquid xenon at 1 to 2 GeV, production of electron—photon showers in, (E), 23:8712 (JINR-P1-4077)
reactions with liquid xenon at 100 to 2000 MeV, fluctuations in development of showers in, (E), 22:41722 (JINR-P1-3919)
reactions with lithium, ionization cross sections for, (E), 25:24880
reactions with lithium, ionization cross sections for, 22:41378
reactions with lithium-7 and beryllium-9, differential cross sections for π^+ production in polarized, 25:14602
reactions with lithium-7 and carbon-12 at 650 to 840 MeV, polarization of protons produced in, (E), 24:30709
reactions with lithium-7 in giant resonance region, shell-model calculations with residual interaction, (T), 23:17082
reactions with magnesium at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with matter, quantum mechanical formalism for dissipative situations in, 23:22876
reactions with molecular hydrogen, ionization and absorption cross sections near threshold for, (E/T), 22:41309
reactions with molecules, ionization cross sections for, (T), 22:15347
reactions with negative atomic oxygen ions, electron detachment cross sections for, (T), 21:35008 (N-67-17774)
reactions with negative carbon and nitrogen ions, photodetachment cross sections for, (T), 22:38757
reactions with negative iodine ions, electron detachment cross sections for, (E), 22:41368
reactions with negative iodine ions, plane-wave approximation for two-photon electron detachment from, 22:2791
reactions with negative ions, cross sections and energies for detachment of electrons from, (E), 24:39859
reactions with negative ions, long-range correction to matrix elements for dissociation in, 25:14019
reactions with negative oxygen ions, electron photodetachment cross sections for, 21:11448
reactions with neodymium-148 and -150 and samarium-150, -152, and -154, giant dipole resonance in, (E), 24:1831
reactions with neon at 1.5 keV, K Auger spectra from, 24:44972 (ORNL-4545, pp 124-37)
reactions with neon, electron rearrangement energies and times following ionization by, 25:52698
reactions with neptunium-237, calculation of plutonium-236 formation in production of plutonium-238 by, 25:39552
reactions with nickel-58 and nickel-60 in the giant-resonance region, interpretation of, (E/T), 24:6882
reactions with nitrogen and oxygen atoms and ions, ionization cross sections for, 21:5070
reactions with nitrogen and oxygen, ionization cross sections for, 22:31613
reactions with nitrogen molecules, pseudopotential-method calculations of differential and total cross sections for ionization in, 23:27381

reactions with nuclear Coulomb field at 900 MeV, angular distribution of electron pairs from, (E), 25:53000
reactions with nuclear Coulomb field, coherent production of 0^+ $\pi\pi$(750) in, 24:30476 (CONF-690521-, pp 439-45)
reactions with nuclei above 2 GeV, vector dominance for meson (rho^0) incoherent production from, 23:51898
reactions with nuclei above 2 GeV, vector dominance for energy dependence of rho^0 + N total cross sections and cross section for incoherent rho^0 production in, (T), 23:51877 (DESY-69/30)
reactions with nuclei as elementary particles, meson(π) production in, 24:49381
reactions with nuclei as probes of nuclear structure, 24:35896 (KAPL-P-3867)
reactions with nuclei as probes of nuclear structure, 24:35895 (KAPL-P-3866)
reactions with nuclei at 1 to 2 GeV, mass spectra and cross sections for coherent $\pi^+\pi^-$ production in, (E), 23:13023
reactions with nuclei at 1.5 and 2.0 GeV, meson (π^0) lifetime from Cherenkov counter study of Primakoff effect for meson (π^0) production at small angles in, (E), 24:10653 (DESY-69/48)
reactions with nuclei at 1.600 GeV, eta + N interaction total cross section from, (E), 23:23359 (LNF-69/4)
reactions with nuclei at 10 GeV, test of linearity of quantum electrodynamics equations from cross section of, (T), 22:48360
reactions with nuclei at 10 keV to 100 GeV, data tabulations for, 24:3492 (NSRDS-NBS-29)
reactions with nuclei at 2.6 to 6.8 GeV, cross sections for rho^0 production in, (E), 24:51893
reactions with nuclei at 2.6 to 6.8 GeV, magnetic spectrometer study of cross sections and nuclear density distributions from rho^0 production in, (E), 24:20055 (DESY-69/50)
reactions with nuclei at 2.62 MeV, streamer chamber study of pair production in, (E), 25:17363
reactions with nuclei at 3 to 16 GeV, vector dominance for incoherent production of mesons (rho^0) and (π^+) and total cross sections for, (T), 24:18140
reactions with nuclei at 30 to 400 MeV, computer program for intranuclear-cascade calculation for, (T), 25:50809 (ORNL-4687)
reactions with nuclei at 300 to 1000 MeV, possible mass spectrographic study of multiple particle production in, (E), 23:27737
reactions with nuclei at 4.8 to 7.2 MeV/c, determination of strong-interaction nuclear radius from rho production in, (E), 24:28467 (DESY-70/6)
reactions with nuclei at 40 to 300 MeV, model calculations of, 24:15812
reactions with nuclei at 40 to 350 MeV, calculations of cross sections and spectra for, (T), 24:6970
reactions with nuclei at 5 to 150 MeV, Monte Carlo calculations including secondary particle—particle interactions, (T), 23:1881 (ORNL-TM-2364)
reactions with nuclei at 5.4 GeV, total cross sections for hadron production in, (E), 25:25281 (DESY-71/5)
reactions with nuclei at 5.5 GeV/c, angular distributions for ω production in, (E), 25:5249 (DNPL/R-7, pp 87-94)
reactions with nuclei at 5.7 GeV, ω—γ coupling and ω—N total cross sections from Cherenkov counter study of ω production from, (E), 25:1362 (DESY-70/33)
reactions with nuclei at 6.2 GeV/c, γ—rho coupling and reabsorption cross sections from coherent rho production in, (E), 24:24216
reactions with nuclei at 65 MeV, cross sections for, (E), 21:42278 (IS-1600, Paper 6)
reactions with nuclei at 65 MeV, design and performance of stilbene scintillation neutron spectrometers for studying, 21:34492
reactions with nuclei at 9 GeV, preliminary results for rho production in, (E), 23:16922 (SLAC-PUB-532(Exp.))
reactions with nuclei at 9.15 GeV, rho — N total cross sections and γ—rho coupling constant from cross sections for rho production in, (E), 24:15445
reactions with nuclei at high energies in emulsions, cross sections for triplet production in, (E), 25:17362
reactions with nuclei at high energies, accurate calculation of tables for radiation lengths from total cross sections for, 23:32598 (DESY-69/8)
reactions with nuclei at high energies, coherent and incoherent production in, (T), 24:52059
reactions with nuclei at high energies, cross sections for production of two electron pairs from, (T), 24:49380
reactions with nuclei at high energies, cross sections for π^0 production in, 23:36868(T) (SLAC-Trans-96)
reactions with nuclei at high energies, dynamical effects of instability in nonresonant and rho^0 production in π^+—π^- pair production in, (T), 25:43604
reactions with nuclei at high energies, effect of final-state interactions on properties of rho production in, 24:28513
reactions with nuclei at high energies, Glauber theory approximation of rhoN cross sections from rho production in, 25:3317
reactions with nuclei at high energies, intranuclear cascade model for inelastic, 24:28827(T) (ORNL-tr-2267)
reactions with nuclei at high energies, mechanisms for, 24:24281
reactions with nuclei at high energies, meson (ω) Regge trajectory, sign of $\pi^0 \rightarrow 2\gamma$ decay amplitude, and test of vector dominance model predictions from meson (π^0) production from, (T), 23:51891
reactions with nuclei at high energies, optical model for, (T), 25:19955
reactions with nuclei at high energies, ω - rho interference in, 25:5325 (DNPL/R-7, pp 115-38)
reactions with nuclei at high energies, production of nonresonant $\pi^+\pi^-$ pairs in, (T), 25:38698
reactions with nuclei at high energies, quark model for total cross section relations for, (T), 25:14595 (ITF-70-63-P)
reactions with nuclei at high energies, Regge amplitude for absorption in antinucleon production in, (T), 22:20194
reactions with nuclei at high energies, rho production in, (E), 24:51895
reactions with nuclei at high energies, surface effects in, (T), 24:10700(T) (SLAC-Trans-102)
reactions with nuclei at high energies, total cross sections for, 25:47796
reactions with nuclei at high energies, two-body correlation function for coherent and incoherent meson (rho^0) production from, (T), 24:3706
reactions with nuclei at high energies, unstable particle + nucleon cross sections from rho^0 production in, (T), 22:22419
reactions with nuclei at high energies, vector dominance model for asymmetry in π^+ production in, (T), 25:53075
reactions with nuclei at high energies, vector-meson dominance model for, 25:12151
reactions with nuclei at high energy, analysis using cascade model, (T), 24:5441 (JINR-P2-4661)
reactions with nuclei at high energy, Glauber multiple-scattering theory for meson production in, 23:32665
reactions with nuclei at high energy, nucleon energy spectra from, (E), 23:7281(R) (ORNL-4280)
reactions with nuclei at high energy, surface effects in, (T), 24:3983
reactions with nuclei at large momentum transfers, cross sections for incoherent production of neutral vector mesons in, (T), 25:47776 (JINR-P2-5864)
reactions with nuclei at low and intermediate energies, conference on disintegration from, 24:26365
reactions with nuclei at low and intermediate energies, conference on meson production in, 24:26366
reactions with nuclei below 120 GeV, proposed experiment for total cross sections for hadron production from, 24:51886 (TID-25473(Vol.4), pp 149-60)
reactions with nuclei below 150 MeV, photonuclear data index, Jan. 1965 to Jan. 1970 for, (E), 25:22961 (NBS-SPEC. PUBL-322)
reactions with nuclei below 18.3 GeV, rho dominance in proton strong interactions from total absorption cross sections for, (E), 24:3503
reactions with nuclei below 6.02 GeV, rho^0 production from, (E), 21:44244
reactions with nuclei in Coulomb field at high energies, hadron production in coherent, 25:56457
reactions with nuclei in emulsions, asymmetry ratio and differential cross sections in opening angle for electron pair production in, (E), 25:17364
reactions with nuclei in giant resonance region, 22:7784
reactions with nuclei in giant resonance region, pair-production cross sections for, (T), 21:21588
reactions with nuclei in two-layer absorber, transition effect for electron—photon shower from, 24:5269
reactions with nuclei near threshold, cross sections for heavy-meson production in, 22:7471
reactions with nuclei up to 1.1 GeV in emulsions, hammer track formation in spallation, (E), 25:50051
reactions with nuclei with modified fermion propagator in quantum electrodynamics, asymmetric lepton pair production in, 22:46495 (DESY-68/36)
reactions with nuclei with quasi-deuteron production, nucleon—nucleon correlations in, (T), 23:37296
reactions with nuclei, A/sup -1/6/ dependence of giant dipole resonance in, (T), 22:50673
reactions with nuclei, accuracy of photon-difference method for calculation of cross sections in, 25:30773 (DESY-71/3)
reactions with nuclei, analysis using Feynman diagrams, (T), 25:31435
reactions with nuclei, boson production with S = T = 0 from, (T), 22:3319
reactions with nuclei, calculations using Tchebycheff polynomials in integral equations, (T), 22:48571 (CEA-R-3427)
reactions with nuclei, Compton graph contribution to e^+e^- and $\mu^+\mu^-$ pair production from, (T), 21:42305
reactions with nuclei, conservation laws for Bethe—Salpeter equation for, 22:5877
reactions with nuclei, cross section calculations using mathematical statistics, (T), 21:44776
reactions with nuclei, cross sections for μ^+ - μ^- atom production from, (T), 23:46643(T) (SLAC-Trans-97)
reactions with nuclei, cross sections for, (T), 21:1132
reactions with nuclei, determination of exchange currents by disintegration, (T), 24:43523
reactions with nuclei, determination of real part of amplitude for Compton, 24:26390 (AD-694033)
reactions with nuclei, effect of rho—ω mixing in e^+—e^- pair production in, 24:26394 (DESY-70/13)
reactions with nuclei, effect of sign of ω—phi mixing angle on rho—ω interference in lepton pair production in, 24:18136
reactions with nuclei, eikonal approximation for forward scattering amplitude and total cross sections for, 23:27784
reactions with nuclei, ENDF formats and procedures for storage of data on, (T), 25:59838 (LA-4549)
reactions with nuclei, exchange currents from disintegration, (T), 24:40714
reactions with nuclei, Glauber model for coherent production in, 24:18110 (CONF-690330-, pp 152-60)
reactions with nuclei, hadron-like behavior of cross sections for, (T), 21:12115
reactions with nuclei, incoherent contributions to vector meson production in, 23:36871
reactions with nuclei, isolation of Regge trajectories in π and vector meson production in, (T), 24:24308
reactions with nuclei, isospin sum rule for, (T), 23:40096
reactions with nuclei, low-energy theorems for π production in, (T), 25:20019 (LYCEN-7081)
reactions with nuclei, method for determination of cross sections for, 24:30879
reactions with nuclei, momentum transfer in meson (π^0) production from, (T), 21:17084
reactions with nuclei, multiperipheral production mechanism and duality for rho'(1500) production in, 25:53097
reactions with nuclei, multipolar sum rules for, (T), 21:30070
reactions with nuclei, optical model for relative phase between rho^0 and ω^0 produced in, (T), 24:49387
reactions with nuclei, ω and B exchange contributions to π^0 production from, (T), 23:39651
reactions with nuclei, performance of multichannel analyzers for determining yields in, 23:16199
reactions with nuclei, polarization tensor in quantum electrodynamics for amplitude of coalescence into photons in, (T), 25:1598 (NP-18473)
reactions with nuclei, production of ($\mu^+\mu^-$) bound state in, (T), 24:8651
reactions with nuclei, proof of impossibility of neutrino—antineutrino pair production from, (T), 23:42592
reactions with nuclei, quark model for relations between total cross sections for π and K reactions with nuclei and differential cross sections for neutral vector meson production in, (T), 25:1442 (ITF-70-40)
reactions with nuclei, real part of Compton amplitude from electron bremsstrahlung and pair production in, 24:13009
reactions with nuclei, relative sign of Coulomb and Regge amplitudes in coherent neutral pseudoscalar production in, (T), 24:35624 (ITF-70-21)
reactions with nuclei, review of particle production in, (E), 23:23330
reactions with nuclei, review of rho and ω production in, (E/T), 25:5248 (DNPL/R-7, pp 71-85)
reactions with nuclei, review of rho^0 production from, (E), 22:22311 (CONF-670923-, pp 452-83)
reactions with nuclei, review of vector dominance model for vector meson production in, (T), 25:53076
reactions with nuclei, review of vector dominance model for total cross sections for particle production in, (T), 25:53076
reactions with nuclei, review of vector meson production in, (E), 24:51879 (DESY-70/32)
reactions with nuclei, review on, 25:3715 (NBS-MON-118)
reactions with nuclei, review on vector meson production in, 23:27767 (SLAC-PUB-589)
reactions with nuclei, rho^0 + N total cross section estimate from, 21:33712
reactions with nuclei, rho^0 production and decay inside nucleus from, (T), 25:5336
reactions with nuclei, rho—ω interference and phases of amplitudes in, 24:24290
reactions with nuclei, rho-dominance for energy and A dependence of total cross sections for, 23:42626
reactions with nuclei, single-difference unfolding method for measuring cross sections for, 25:17624
reactions with nuclei, soft-pion theorem for threshold meson (π) production in, 23:42981
reactions with nuclei, sum rules for, 21:15292
reactions with nuclei, tables of thresholds for, (E), 25:20237 (UCRL-50400(Vol.9))
reactions with nuclei, test of vector dominance model in, 24:24298
reactions with nuclei, theory of disintegration, (T), 22:13931
reactions with nuclei, use in research on nuclear structure, (E/T), 23:9035 (TID-24667, pp 485-94)
reactions with nuclei, use of sum rules for integrated cross sections for, 22:17833
reactions with nuclei, vector meson dominance in, 23:18844
reactions with nuclei, vector meson production and meson (rho) width and coupling constant from, (E), 23:51831 (NEVIS-173)
reactions with nuclei, vector meson production in, (T), 24:42930
reactions with nuclei, W-meson pair production from, 22:13724
reactions with nuclei, width of dipole resonance in, (T), 21:2721
reactions with nuclei, Wilson expansion chamber for measurements on, 24:4450
reactions with nuclei, yield measurements using activation, (T), 21:44760
reactions with odd-A nuclei at low energies, calculations using single-particle wave functions with undefined parity in, (T), 22:48596
reactions with oriented atoms, perturbation from, (T), 22:45966
reactions with oxygen ions (O^-), cross section and s-wave continuum wave function for electron detachment in, (T), 23:27374
reactions with oxygen, ionization cross sections for, 22:9021
reactions with oxygen-16 above giant resonance region, interference of E1 and E2 + M1 transitions in direct-reaction model for, (T), 25:7816
reactions with oxygen-16 at 0 to 170 MeV, electric-quadrupole transitions in, (T), 22:48458
reactions with oxygen-16 at 166 MeV, differential cross sections for π^0 production, (T), 24:12984
reactions with oxygen-16, analysis of structure of giant resonance from coupled-channel and eigen-channel cross section calculations for, (T), 23:40161
reactions with oxygen-16, cross section calculations using configuration-mixing model, (T), 22:53128
reactions with oxygen-16, dispersion calculation of cross section for meson (π^+) production in, (T), 24:47401
reactions with oxygen-16, resonance cross-section calculations using coupled-channel reaction theory, 21:15503
reactions with oxygen-16, Tamm—Dancoff-approximation calculation of dipole photoabsorption cross section for, (T), 25:39073

reactions with phosphorus, ionization in, 24:19749
reactions with plutonium and uranium at 1 to 600 keV, total cross sections for, (T), 24:52575
reactions with polarized nuclei, T violation in resonance, (T), 21:15380
reactions with praseodymium-141, calculation of the giant resonance considering the residual interaction, (T), 24:11005
reactions with quantum plasmas, theory and observation probabilities for nonlinear interactions excited by, 22:31923 (BNL-50083, pp 155-66)
reactions with self-conjugate nuclei, isospin mixing in the giant dipole resonance in, (T), 24:35926
reactions with silver at 1.5 and 2.0 GeV, meson (π^0) lifetime from, (E), 24:15450
reactions with silver at 5.4 GeV, total cross section for hadron production in, 25:27953
reactions with silver at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions with silver at 6.4 to 9.0 GeV, cross sections for phi production in, 25:38640
reactions with sodium atoms, ionization in, (E), 23:41927(T) (AEC-tr-7083)
reactions with spherical atoms, dispersion calculation of line shapes for ionization in resonant, 23:46284
reactions with spherical nuclei, effects of giant resonance coupling to surface quadrupole oscillations on, (T), 22:30058
reactions with spin-0 nuclei, determination of spin and parity of $X^0(960)$ from, (T), 25:53063
reactions with spinless nuclei, Primakoff effect for eta production in, (T), 22:39317 (JINR-P2-3845)
reactions with tantalum at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions with target materials, secondary electron emission from, (E), 24:32882
reactions with targets at low energies, theorems for Compton, 21:37737
reactions with three-particle nuclei, photodisintegration, (E/T), 21:27642
reactions with tissues, fluence of low-energy electrons produced in and emitted from, 22:43114
reactions with titanium at 1.5 to 5.7 GeV, total cross section for hadron production in, 25:27953
reactions with UN at 0 to 74 eV, optical constants from, (E/T), 25:56345
reactions with uranium at 10 to 300 keV, attenuation cross sections for, (E), 22:9020
reactions with uranium-238 in giant resonance region, total cross section for, 24:47665
reactions with various metals, secondary electron emission from, (E/T), 25:59107
reactions with xenon at 100 to 2000 MeV in bubble chamber, electron—photon shower production in, (E), 23:21035(T) (ORNL-tr-3022)
reactions with ytterbium, efficiency of double ionization in, (E), 24:35168
reactions with $Z = 1$ to 94 nuclei at 0.001 to 15.0 MeV, cross sections for, 21:17297 (UCRL-50178)
reactions with zinc at 1.5 and 2.0 GeV, meson (π^0) lifetime from, (E), 24:15450
reactions with zinc at 4.5 and 5.5 GeV, γ—γ coincidence method for measuring ω production and $\pi^0 + \gamma$ decay from, (E), 23:23335
reactions with zinc at 5.5 GeV, production and decay of phi from, (E), 23:32599 (DESY-69/15)
reactions with zinc at 5.5 GeV/c, branching ratio for phi $\rightarrow \pi^0 + \gamma$ decay from production in, (E), 23:34522
reactions with zinc at 5.7 GeV, cross sections for ω production in, (E), 25:47719
reactions with zinc, silver, and lead at 1.5 and 2 GeV, π^0 lifetime from Primakoff effect in, (E), 23:23338
reactions with zinc, silver, and lead at 4.0 and 5.5 GeV/c, eta lifetime from Primakoff effect in, (E), 23:23538
reflection coefficients for, angular dependence of mirror, (T), 22:11484 (JINR-P4-3614)
reflection of 10 MeV, from homogeneous slabs, calculation of, 22:4384
representation in quantum optics, (T), 21:44217
rest mass of, relation to Einstein's cosmological constant, (T), 22:45906
scattering amplitude for nuclei at low energy, in Thomson limit, (T), 22:9959
scattering angles for, Compton, (T), 21:41762
scattering at 279 keV on K shell electrons of lead, (E), 21:31249
scattering below 140 MeV, Mainz electron linear accelerator experimental facilities for, 25:20189
scattering by aluminum at 662 keV, polarization effects in Compton, 22:24041
scattering by arbitrary-spin targets, low-energy theorems for Compton, (T), 25:9710
scattering by aspherical free atoms, calculation of factors for Compton, 23:32173
scattering by atomic hydrogen, evaluation of Kramers—Heisenberg matrix element for, 22:17376
scattering by atomic Raman effect, polarization in, (T), 25:40837 (EUR-CEA-FC-594)
scattering by beryllium-9 and tin, Thomson cross section for, (E/T), 23:8926 (TID-24667, pp 555-66)
scattering by bound atomic systems at very high energies, amplitude for elastic, 23:15026
scattering by bound K-shell electrons, Compton, (T), 23:46288
scattering by bound K-shell electrons, evaluation of nonrelativistic matrix element for Compton, 23:25132 (IFA-FT-74)
scattering by carbon and tungsten in GeV range, forward, (E), 21:21129
scattering by carbon, deuterium, and helium-4, analysis for double scattering and glory effects in Compton, 25:59703
scattering by cosmic radiation field, experimental test for cosmological red shift in, 21:24863
scattering by Coulomb field, asymptotics and amplitudes of Delbrueck, (T), 25:33625
scattering by Coulomb-field at high energy, amplitude for Delbrueck, 25:7595
scattering by cylindrical targets, size effects on Compton, (E), 25:49971
scattering by deformed heavy nuclei, theory of, 21:31847
scattering by deuterium metastable atoms, anti-Stokes Raman, (E), 24:51420
scattering by electrons in stellar photospheres, (T), 22:43710
scattering by electrons moving in refracting medium, (T), 22:39322
scattering by electrons, Legendre polynomial expansion for Klein—Nishina formula for, 22:946
scattering by even-even nuclei, collective model analysis of tensor polarizability in giant resonance region, (T), 25:28489
scattering by freely oriented particles and medium fluctuations, intensity and polarization from multiple, (T), 23:51901
scattering by gold K-shell electrons at 662 keV, cross section for incoherent, (E), 23:30351
scattering by helium-4 at 190 to 430 MeV, impulse approximation for differential cross sections for Compton, 24:18129
scattering by helium-4 at π threshold to 1.200 GeV, resonance multipoles in Compton, (T), 25:33633
scattering by hydrogen atom, infinite-component wave equations for elastic, 23:44608
scattering by hydrogen atoms in region of resonance fluorescence, method for calculation of, 24:26008
scattering by hydrogen atoms, analytical exact formulas for elastic and combinational amplitudes in, 23:18416
scattering by hydrogen atoms, retardation in evaluation of matrix element for elastic, (T), 25:7178
scattering by hydrogen atoms, theory of Compton, 23:20702
scattering by hydrogen ground-state atoms, retardation effects on nonrelativistic elastic, analytical solution for, 23:27363
scattering by hydrogen, retardation in elastic, 22:43855 (IFA-FT-70)
scattering by hydrogenic atoms, retardation effects in second-order transitions in, (T), 23:34281
scattering by infinite medium, from monoenergetic isotropic point source, (T), 24:47294(T) (ORNL-tr-2349)
scattering by lead and uranium at 1.33 MeV, differential cross sections for elastic, (E), 25:31370
scattering by lead and uranium nuclei at 10.8 MeV, cross section for elastic, (E), 23:28308
scattering by light nuclei at 10 to 80 MeV, dipole oscillator strengths from, (E), 24:28706
scattering by materials, density dependence of back-, 21:20764
scattering by mercury-199, platinum-195, and strontium-87 with isomeric excitation, cross sections for, 23:23669
scattering by nuclear Coulomb field at arbitrary energies and small angles, differential cross sections for electron pair and photon production in, (T), 25:5335
scattering by nuclear field, polarization of electron pairs and photons from, (T), 25:12158
scattering by nuclei at high energies, amplitudes for Delbrueck, 23:42618
scattering by nuclei at high energies, asymptotic behavior of matrix element for Delbrueck, 23:42620
scattering by nuclei at high energies, impact factor for Delbrueck, 23:42614
scattering by nuclei in giant resonance region, cross sections for, (T), 22:14108
scattering by nuclei in single crystals, optimal conditions for observation of coherent, (T), 25:5174
scattering by nuclei with pion production, excitation of giant resonance analogs in inelastic, 24:52679
scattering by nuclei, (T), 22:18343
scattering by nuclei, amplitude and differential cross section for Delbrueck, 25:28070
scattering by nuclei, conservation laws for Bethe—Salpeter equation for elastic, 22:5877
scattering by nuclei, Doppler integral for resonance, 21:38379
scattering by nuclei, dynamic collective model formalism for, (T), 23:21401
scattering by nuclei, evaluation of Cabibbo—Radicati sum rule for, (T), 23:32971
scattering by nuclei, generalized formalism for, (T), 22:50687
scattering by nuclei, Glauber theory of multiple scattering for corrections to wide-angle bremsstrahlung from Compton, (T), 25:19955
scattering by nuclei, impact factor representation of amplitude for Compton and Delbrueck, 24:12990
scattering by nuclei, sum rules for Compton, 21:18957
scattering by oxygen atoms, cross sections for, (T), 21:35008 (N-67-17774)
scattering by palladium-106 using annihilation radiation, differential cross section for resonant, (E), 24:15943
scattering by perfect crystals, dynamic, (T), 21:33544
scattering by plane thick layer, photon distributions from multiple, 22:39303
scattering by plutonium-239, production of spontaneously fissioning isomers in inelastic, (E), 25:56738 (JINR-P15-5959)
scattering by polyethylene, aluminum, iron, and lead, radial distribution for back-, 23:29173
scattering by praseodymium-141, angular distributions from inelastic, (E), 25:15139
scattering by praseodymium-141, spectra and angular distributions for inelastic, (E), 23:31022
scattering by relativistic electrons with a power-law spectrum, (T), 25:7005
scattering by single photons, light, and particles, classical general relativity and quantized linearized field theory for cross sections of, 24:22008
scattering by spherically symmetric gravitational field, polarization in, (T), 25:12159
scattering by spin-0 or spin-1 targets, low-energy theorems for e^4 amplitude for Compton, 23:15023
scattering by system of static force centers, multiple, 21:40297
scattering by tellurium-130, spectra for inelastic, (E), 23:31017
scattering by thick layers of matter, polarization and angular distribution for, (T), 24:20108
scattering by tin at 6 to 9 MeV and zirconium at 8.5 to 12.5 MeV, (E), 25:14959
scattering by vibrational nuclei in giant resonance region, (T), 21:4337
scattering by $Z <$ or $= 94$ elements from 0.001 to 100 MeV, cross sections for coherent and incoherent, 23:10696 (UCRL-50400(Vol.6))
scattering cross sections for beryllium, carbon, magnesium, and sulfur at 30 to 130 keV, incoherent, (E/T), 22:17389
scattering from bound states, Drell—Hearn—Gerasimov sum rule for Compton, 23:15066
scattering from Maxwellian gas of free electrons, (T), 22:36629
scattering from point source near air—ground interface, spectral measurements of, 22:52839 (AD-669452)
scattering in gases, frequency redistribution during, (T), 23:34239
scattering in nova envelopes, (T), 24:46856
scattering in plane geometry, solution of one-speed transport problems in, 21:25397 (NP-16508)
scattering in quantum electrodynamics, nonlinear effects in, 23:1677
scattering in quantum mechanics, (T), 23:44574
scattering in slabs, variation of Green's functions, 21:4131
scattering in thick slabs, Monte Carlo technique for resonance-line, (T), 22:29206
scattering inelastically by oxygen-16 with π-meson production, analysis using Goldhaber—Teller model, (T), 24:52435
scattering of microwave, from high-energy electrons in Crab Nebula, 21:37205
scattering of optical, by electrons, polarized photon source from Compton back-, 22:24752 (UCID-15296)
scattering of polarized, asymmetry ratios and cross sections for Rayleigh, (T), 22:22647
scattering of polarized, in weak magnetic fields, resonance, (T), 23:39216
scattering of polarized, spin dependence of Rayleigh, 23:1525
scattering of, derivation of inverse Compton effect, (T), 25:30502
scattering of, effects on counting rates in radioisotope scintigraphy, 24:48637
scattering of, effects on radiant heat transfer, 23:17680
scattering of, line shapes for Compton, (E/T), 23:21331 (MIT-952-5(Pt.1), pp 200-314)
scattering of, low-energy theorems for, 22:26715
scattering of, resonance, 21:29352
scattering of, spectral change due to multiple Compton, (T), 22:31601
scattering of, transition probabilities for, (T), 21:3969
scattering of, two-point functions for, (T), 23:21030
scattering on arbitrary-spin targets, low-energy theorems for Compton, 25:27993
scattering on atomic hydrogen, analysis of elastic, (T), 22:950
scattering on electron gases, Compton cross sections for, 22:45919 (AWRE-O-33/68)
scattering on electron gases, multiple Compton, 23:8433 (CEA-R-3627)
scattering on electrons in plasma, Green function analysis of, (T), 23:32422
scattering on electrons in refractive media, (T), 22:29176 (JINR-E4-3760)
scattering on electrons, effects in Friedmann cosmologies, (T), 22:26118
scattering on gravitons, wave function renormalization for, 21:7388
scattering on helium, carbon, nitrogen, and oxygen, cross sections for Rayleigh, (T), 24:23564
scattering on potassium manganese fluorides, critical magnetic, (T), 21:6974 (BNL-9615)
scattering on quantum plasmas, perturbation-theory development of cross sections for, 23:3478
scattering on spinless systems at low energies, Compton, 22:15331
scattering, discrete ordinates treatment of induced, (T), 25:33392 (LA-4646)
scattering, intensity correlations in inelastic, 21:16785 (UCRL-17286)
scattering, Monte Carlo calculations of high energy back-, 24:45308
scattering, transport theory for, (T), 22:44288
self energy from extension of the renormalization group, 21:44312
self-energy graphs for, renormalization group for asymptotic behavior of, 22:15840
self-energy graphs in quantum electrodynamics, logarithmic asymptotic behavior of partial sums of, 23:46816
self-energy graphs of quantum electrodynamics, asymptotic estimates of Feynman integrals for, 22:50449
shielding calculations for high-energy, transverse, (T), 23:36772
shielding of scattered, for pinex experiments, 25:49959 (UCRL-51045)
source concept for electrodynamics, 21:37727
source theory for, 22:50318
sources of, discrete astrophysical, (T), 22:5174
spectra for calculation of absorbed dose in aluminum, copper, and water, 24:50911
spectra from cosmic π^0 decay, comparison with galactic γ flux for, (T), 25:27404
spectra from discharge of argon—alcohol G—M counter, measurement of, 23:17769

- spectra from meson (π^+) reactions with xenon at 2.34 GeV/c, (E), 23:18812
- spectra from three-quanta annihilation of electron pairs, 21:11756
- spectra in B approximation of cascade theory for, medium polarization and multiple scattering in equilibrium, 21:2412
- spectra in cascade showers in intergalactic space, 21:13410
- spectra in tagged photon beams, 21:27462 (CALT-68-128)
- spectra measurements above 100 MeV, miniature Cherenkov shower spectrometer for, 25:21437
- spectra of bremsstrahlung and annihilation radiation, (T), 23:9039 (TID-24667, pp 515-19)
- spectra of cosmic, for absorption probability for $\gamma + \gamma \rightarrow e^+ + e^-$ interactions at high energy, 21:24944
- spectra of high-energy cosmic, in atmosphere, (T), 21:5103
- spectra of prompt, from cosmic-ray bombardment of Moon, (T), 22:31534
- spectra of prompt, from cosmic-ray bombardment of Moon, (T), 24:30179
- spectral absorption coefficient of heated air at 0.6 to 3 eV, contribution of inverse neutral bremmsstrahlung to, (T), 21:26996
- spectral function of, contributions to, 23:18864
- spectral-line formation by noncoherent scattering with dipole phase function, (T), 24:12525
- spectrum of prompt, produced in lunar surface by cosmic-ray bombardment, (T), 22:15382 (ORNL-TM-2100)
- spin formalism in quantum electrodynamics, (T), 25:17572
- stability of, 25:27979
- stopping power ratios in cavity ionization chambers, 21:26165
- structure as composite particle in quantum electrodynamics, 21:33768
- structure as composite state of neutrino—antineutrino pair, 25:25389
- structure of, symmetry implications in, 23:30306
- symmetry for zero-mass, reduction of relativistic wavefunctions to irreducible representations of inhomogeneous Lorentz group in, 22:29728
- symmetry for, classification in SU, 22:17993
- symmetry for, weak localizability in Poincare group in, 22:20288
- theory for aging in cosmological red shift, experimental test of, 21:37738
- theory for continuous-spin, lightlike and spacelike representations of Poincare group in, 25:12236
- theory for electron—photon showers, characteristic functional for cascade processes in, 22:17896
- theory for photon—particle system, quantum wave propagation in, 21:40176
- theory for tachyon, in Fresnel evanescent wave, (T), 25:22890
- theory for, gravitational, 24:13167
- theory for, perturbation calculation of generalized two-point function in, 22:37186
- theory for, Pryce theorem for neutrino, 21:5365
- theory for, retinue for infrared divergence in quantum electrodynamics in, 25:47936 (ORO-3992-56)
- theory of tachyon, in Fresnel vanishing wave dipolar transitions on atoms and ions, 24:35699
- theory of tachyon, in vanishing wave with total reflection, 24:30556
- theory of, chilar-symmetric, 21:17171
- theory of, relation of vector meson equations in Kemmer formulation to, 23:25602
- theory of, S-matrix, 21:18966
- trajectories in superdense stars, gravitational field effects on, (T), 21:33042
- transfer in semi-infinite atmosphere, time-dependent, (T), 24:19590
- transfer of resonance, in half-space, (T), 24:12521
- transformations in external electromagnetic and gravitational fields, photon → graviton and graviton → photon, 24:18127
- transitions in hydrogen in Coulomb field, bound-state, 22:29211
- transmission through hot electron atmosphere, (T), 24:20026
- transport calculations for shielding against, adjoint and importance in Monte Carlo method for, 21:21009
- transport calculations for, computer program for multigroup cross sections for, 24:12871 (CTC-17)
- transport calculations for, computer program for using method of discrete ordinates for, 23:10695 (SC-RR-68-712)
- transport calculations using method of discrete ordinates, 23:36765
- transport calculations, DTF program for using method of discrete ordinates for, 22:3151 (SC-RR-67-419)
- transport calculations, Monte Carlo method for, 24:45305
- transport calculations, Monte Carlo method for, (T), 25:33394(T) (ORNL-tr-2464)
- transport equation for, non-linear Monte Carlo solution of, 25:57161 (CONF-710302-(Vol.2), pp 794-7)
- transport equations for, in nonuniform media, 21:7093
- transport in 2π geometry, Monte Carlo programs for calculating, 25:272
- transport in air, buildup factors for point sources, 21:7303
- transport in arbitrary finite body, invariant imbedding as generalization of resolvent equation for, 22:20345
- transport in liquid nitrogen, low-energy, (E/T), 25:5148
- transport in reactors, numerical solution of linear integral Boltzmann equation for, (T), 25:18231
- transport in shielding materials, (E/T), 23:8641 (SC-RR-68-659)
- transport in shielding materials, calculations using invariant imbedding theory, 22:52844
- transport in shielding, SORS code for CDC-6600 calculations of, 22:20035 (UCRL-50358)
- transport in spherically symmetric geometry, computer programs for, 21:44144
- transport in thin slab geometries, approximate method involving successive scatters for calculation of, 22:31893
- transport of cosmic, in homogeneous media, Monte Carlo simulation of, 24:5010 (HASL-213)
- transport of resonance, in optically thick media, (T), 24:42472
- transport problems, computer program modification for solution of, 24:30414 (SC-RR-69-739)
- transport representation of strongly collimated gamma-scan experiments, computer program for, 24:41210 (NEDO-13074)
- transport theory for, scattering process in radiative transfer, 24:8516 (ORO-3858-1, pp 434-97)
- transport theory for, use of generating functions and reflection and transmission functions in, 21:33862
- transport, Monte Carlo program for time-dependent, 25:9601 (LA-4539)
- use for radiotherapy, 22:23565
- use for scanning in man, review of, 24:34474
- use for therapy of malignant tumors of human uterine cervix, management of recurrences following ultrahard, 25:6756
- use in absorptiometric method for estimating mineral content and weight of human bone, 23:8017 (COO-1422-30)
- use in activation analysis, review on, 22:1975
- use of low energy, for measuring bone minerals, 23:4973 (COO-1422-21)
- use of low-energy radioisotope, for industrial control and measurement, review of, 24:29448
- vertex function for $A_1\pi\gamma$ from current algebra and Veneziano representation, 25:47851
- vortical motions of, in early Universe, (T), 22:45879
- wave equations for zero and nonzero self-mass, solution of Dirac—Hestenes, 23:51894
- wave equations for, Dirac and Weyl theories for, 24:24311
- wave equations for, multipole solutions and characteristic hypersurfaces for, 23:39656
- wave function for, in quantum relativistic theory, 21:9739
- wave function renormalization constants in quantum electrodynamics, functional relations for, 25:9848
- wave functions and M-functions for, tensor, 24:52018
- wave-mechanical action-at-a-distance theory for, one-dimensional, 24:3486
- width of (rho $\pi\gamma$), cross sections of $\gamma + p \rightarrow$ rho + Δ and $\gamma + n \rightarrow$ rho(ω) + Δ for, (E), 24:49301
- yields from electron passage through water, 23:35021

PHOTOPERIODISM
- book: Comprehensive Biochemistry, Vol. 27. Photobiology, Ionizing Radiations, 22:49222
- detection in animals, method for use of tritium-activated luminescent paint in, 22:25758
- effects on growth of Erysiphae graminis on wheat, 23:952
- responses in γ, neutron, and x radioinduced barley mutants, gene loci for, 23:43740

Photoprotons
- see photoproduction under Protons

PHOTOREACTIVATION
- book: Comprehensive Biochemistry, Vol. 27. Photobiology, Ionizing Radiations, 22:49222
- dose response relations for Tetrahymena, 21:22816
- effects on DNA in uv-irradiated Euglena, 23:45688 (AECL-3334)
- effects on DNA in uv-irradiated plant cells, 23:29344(R) (COO-1704-6)
- effects on DNA of Tetrahymena following uv-induced inactivation of, 23:35657
- effects on DNA polymerase and nuclei in uv-irradiated thymus cells, 21:24321
- effects on DNA synthesis in uv-irradiated tobacco cells, 24:11965
- effects on γ- and uv-radioinduced mutations in E. coli, 21:39535
- effects on mutations of bacteriophage induced by uv, 21:28699
- effects on recovery of uv-irradiated diploid yeast, 24:34767
- effects on repair from uv-radioinduced damage in Bacillus subtilis, 25:10960 (BNL-50203, pp 82-90)
- effects on repair mechanisms in DNA of uv-irradiated Escherichia coli, 21:22815
- effects on RNA from phage f2 following uv irradiation, 21:30778
- effects on RNA from uv-irradiated TMV, effects of in vitro or in vivo exposure on, 24:7739
- effects on survival of uv- and x-irradiated lambda bacteriophage, 21:41521
- effects on survival of uv-irradiated Anacystis nidulans, 24:36742
- effects on survival of uv-irradiated blue-green algae, 23:5056
- effects on survival of uv-irradiated Dictyostelium, effects of caffeine on, 24:27721
- effects on survival of uv-irradiated yeast, combined effects of diepoxybutane on, 23:50437
- effects on survival of uv-irradiated, uv-radiosensitive mutants of Saccharomyces cerevisiae, 24:14622
- effects on thymine dimerization in uv-irradiated Escherichia coli, 24:14416
- effects on transforming DNA extracted from uv-irradiated Bacillus subtilis spores on ruptured sporoplasts, 23:38461
- effects on uv and x-radioinduced mutations in Escherichia coli, 24:34260
- effects on uv-inactivated RNA from tobacco mosaic virus, 24:31844(R) (UCB-34-P-116-X-8)
- effects on uv-induced damage in bacterial DNA, 21:24320
- effects on uv-induced damage in nucleic acids, 21:24323
- effects on uv-irradated DNA of bacteria, review of mechanisms for, 24:48404
- effects on uv-irradiated Amoeba proteus, role of cytoplasm and nucleus in, 24:9918
- effects on uv-irradiated Blastocladiella, effects of acriflavine and dose fractionation on, 23:41500
- effects on uv-irradiated Chlamydomonas, 24:23169
- effects on uv-irradiated Chlamydomonas during meiosis, 24:21322
- effects on uv-irradiated Colpoda, 24:14574
- effects on uv-irradiated cultured plant cells, 23:6395
- effects on uv-irradiated cysts of Azotobacter vinelandii, white light, 24:8022
- effects on uv-irradiated cytoplasm, 21:24310
- effects on uv-irradiated DNA, 21:24322
- effects on uv-irradiated DNA in TMV, 23:45665
- effects on uv-irradiated Escherichia coli, kinetic model for, 23:45694 (ANL-7535, pp 122-3)
- effects on uv-irradiated Euglena, 23:31892
- effects on uv-irradiated Hydrogenomonas facilis and infecting bacteriophages, 24:34792
- effects on uv-irradiated kappa bacteriophage sorbed on non-photoreactivable Serratia mutant, 23:29436
- effects on uv-irradiated moss spores after 30 hours of growth, 24:916
- effects on uv-irradiated Mycoplasma laidlawii, 23:26965
- effects on uv-irradiated plants, 24:2716
- effects on uv-irradiated radioresistant and radiosensitive Escherichia coli, 24:928
- effects on uv-irradiated slime mold, combined effects of caffeine on, 23:50935
- effects on uv-radioinduced cell death and intragenic recombination, 23:20440
- effects on uv-radioinduced changes in base composition of messenger RNA in Escherichia coli, 23:38490
- effects on uv-radioinduced cyclobutyl dimers in Paramecium aurelia, 23:2795
- effects on uv-radioinduced degradation of ribosome in starved Escherichia coli, 23:33641
- effects on uv-radioinduced injury to skin of albino mice, 23:29751
- effects on uv-radioinduced lesions in Escherichia coli, mutation for enzyme activity during, 24:2638
- effects on uv-radioinduced lethal injuries and mutation in radiosensitive and resistant Escherichia coli, loss of, 24:2628
- effects on uv-radioinduced mutants of Saccharomyces cerevisiae, 21:41522
- effects on uv-radioinduced mutants of yeast, effects of oxygen on, 23:2809
- effects on uv-radioinduced mutations in Paramecium aurelia, 23:31709
- effects on uv-radioinduced mutations in yeasts, 23:38539
- effects on uv-radioinduced prophage in Escherichia coli, action spectrum for, 23:20444
- effects on uv-radiosensitivity of leaves of Xanthium during exposure, 24:25594
- genetic control of, in uv-irradiated bacteriophage, 21:24691
- induced by single light flashes in DNA of Haemophilus, effects of temperature on, 23:38476
- kinetics of enzymatic, following uv killing of bacteriophage Tl or Escherichia coli, 24:6149
- measurement in nuclease mutants of Neurospora crassa, 24:2639
- mechanism for uv-radioinduced lesions in DNA, 23:20131
- mechanisms for uv-radioinduced lesions in DNA of bacteria and bacteriophage, 23:20130
- mechanisms in animal cells, review of, 25:21807
- mechanisms in plants and plant viruses, research on, 24:6145(R) (RLO-1952-3)
- model in Escherichia coli, sequential, 24:41949 (ANL-7635, pp 229-91)
- molecular mechanisms for, 21:24677
- occurrence in uv-irradiated Streptomyces griseus, effects of wavelength on, 21:45852
- occurrence in uv-radioinduced mutations of maize, 23:31696
- radiation effects on kinetics of, in mutants of Escherichia coli, α and uv, 24:25615
- radiation effects on, of algae, uv, 21:43539
- radiation effects on, of Escherichia coli mutants, uv, 23:24596
- radiation effects on, of Escherichia coli, acute uv, 23:6618
- radiation effects on, of Escherichia coli, α, 24:34791
- radiation effects on, of Escherichia coli, uv, 25:11008 (BNL-50203, pp 14-26)
- radioinduced mutations for loss of ability for, in Saccharomyces cerevisiae, uv, 23:33679
- radioprotective effects of, in Escherichia coli, uv, 23:50949
- radiosensitivity in mutants of fungi, uv, 24:50817
- reaction mechanisms for, involved in repair of uv-induced inactivation of nucleic acids of viruses, 21:22802(R) (UCB-34-P-116-2)
- reaction mechanisms for, of uv-inactivated viruses, 21:22802(R) (UCB-34-P-116-2)
- reconstitution in, effects of, on uv-irradiated ribonucleic acid in tobacco mosaic virus, 21:26687
- response in uv-radiosensitive mutants of Saccharomyces cerevisiae in comparison to bacterial strains lacking excision-repair ability, 23:43907
- spectra for reduction of uv-radioinduced damage in Neurospora, 21:36767
- spectrum for uv-radioinduced inactivation of RNA of tobacco mosaic virus in pinto bean plants, 23:43704
- temperature effects on, of uv-irradiated yeasts, freezing, 23:6611

PHOTOSENSITIVITY
- detection of uv, in man, method for, 21:14686
- induction by long-wave uv rays from sun, effects of drugs on, 21:28659

PHOTOSPHERE
- see also Solar-Active Regions
- see also Solar Granules
- see also Sunspots
- abundances of iron and nickel in, (E), 25:16713

acoustic-wave propagation in, effect on spectral-line profile, (T), 23:25103
activity in, relation to coronal activity, (T), 24:10295
alkaline earth abundances in, (E/T), 22:43825
book: The Solar Granulation, 22:38676
bright network of, relation to magnetic fields, (E), 23:36380
brightness at 6263A, limb, (E), 24:35106
brightness differences associated with supergranulation, (E), 23:10386
brightness of faculae and flocculi in, (E), 24:17531
brightness of faculae and flocculi in, (E), 25:9095(T) (CSIRO-Trans-10258)
brightness of faculae and flocculi in, magnetic field effects on, (E), 25:2857(T) (AD-707256)
brightness of flocculi in, (E), 25:9096(T) (CSIRO-Trans-10289)
brightness temperatures in, (E), 25:58596
calcium abundance in, (E), 23:32110
capacity of, (T), 23:14525
carbon monoxide abundance in, (E), 22:36581
carbon monoxide abundance in, (E), 24:17545
carbon monoxide dissociation in layer between, and chromosphere, (T), 22:13116
carbon monoxide dissociation in, effect of electron collisions on, (T), 23:36359
carbon-12 and carbon-13 abundance in, (E), 22:17316
cell formation in, giant, (T), 25:9112
characteristics of small H-α plages, magnetic and spectral, (E), 25:9099
characteristics of solar, effect on production of solar chromosphere and corona, (T), 25:49660
convection in, physics of, (T), 23:18347
convection in, Rossby-wave dynamo for, (T), 23:46202
convection in, sunspot formation during, (T), 23:51279
convective motions in layers of, (T), 22:29063
correlation of Hα plage index with electron density variations in fixed-height ionosphere, (E), 25:38218
departures from LTE in stellar, (T), 22:13173
deuterium abundance in, (E), 25:24797
distribution of calcium plages or faculae in, (T), 21:46102
disturbances of, connection between N—S and E—W asymmetries in, (E/T), 25:13883
electric conductivity gradients in sunspots in, (T), 22:894
electric conductivity in faculae, (E/T), 25:58588
electric conductivity in inhomogeneous, (E/T), 25:901
electric conductivity in, (E/T), 25:58588
electric conductivity in, relation to sunspots, (T), 25:30186
electric field strength caused by pressure gradient in, (T), 21:28935
electron and ion motion above, (T), 25:49596 (AD-715925)
electron density in, (T), 22:13134
element abundance in, iron, magnesium, and neon, (T), 24:23662(T) (CTO-705)
element abundances in, (E), 23:12486
element abundances in, (E/T), 25:55750
element abundances in, (T), 22:26176
element abundances in, aluminum, phosphorus, potassium, sodium, and sulfur, (E), 22:23932
element abundances in, carbon, nitrogen, and oxygen, (E), 22:23956
element abundances in, iron group, (E), 22:23934
elemental abundance in, iron, magnesium, and silicon, (T), 22:41203
elemental abundances in, relative to corona, iron and silicon, (E/T), 22:34229
emission border in Hα line, formation of, (T), 21:41703(T) (NASA-TT-F-455, pp 43-7)
emission of sodium lines, intense flare-like, (E/T), 25:27380
energy conversion in, convective to magnetic, (T), 22:29167
energy emission at 4477 to 8638 A from center of, (E), 22:31579
energy flow from, to chromosphere and corona, (T), 22:19706
energy fluxes from, (E), 24:42455
energy release by magnetic-field dissipation in, (T), 23:10394
energy transport from small modes to large modes in, (T), 21:41697 (UCRL-50224)
energy transport in 190- to 320-km region of, (T), 24:25920
eruptions in, (E), 25:16707
Evershed effect as wave phenomenon in, (T), 22:11177
facula-to-photosphere contrast, effects of scattered light on, (T), 25:58587
faculae distribution in, (E), 24:17533
faculae in, connection to coronal polar plumes, (E), 22:29156
faculae in, spectra of, (E), 25:13882
faculae spectrum of, turbulent velocities associated with, (E), 22:52453
faculae, correlation of chromosphere faculae and, (E/T), 22:43794
flare continuum in, origin of, (E), 25:35722
flares in, generation of white-light, (E/T), 25:11619
fluctuations in, quasi-periodic, (E), 25:19415
fluctuations of, amplitude distributions of, (E/T), 21:46089
foreshortening for calcium plages, correction for, (T), 21:46079
formation of triatomic molecules in, (T), 21:33081
gas motions in, (E), 25:49641(T) (CSIRO-Trans-10552)
gas pressure in layers of, (T), 24:10284
generation of granules and supergranules in, (T), 23:18347
granular velocities in, (E), 25:27366
granular velocity field in, (E), 22:29158
granulation in several regions of, photoelectric photometry of, (E), 21:46080
granulation in, pattern of super-, (E), 22:17268
granulation of, high-resolution spatial cinematography of, (E), 22:26163
granulation of, properties of, (E), 23:34212
granulation of, relation to sunspot cycle, (T), 21:24875
granulation of, ultraviolet photography at 2000 A of, (E), 21:46099
granule formation in, super-, (T), 25:9112
gravity waves and five-minute oscillations in, trapped, (T), 25:19405
heating in flare stars, (T), 22:43710
heating of stellar, below flares, (T), 24:42315
helium abundance in, (E), 23:48665
helium abundance in, (T), 24:23667
hydrodynamics of lower, (E), 22:2765
hydrodynamics of lower, (T), 22:7105
hydrogen excitation in prominence surges, (T), 21:41702(T) (NASA-TT-F-455, pp 38-42)
hydrogen spectrum in, continuous and line, (T), 22:17275
infrared oxgyen spectroheliograms of, (E), 23:39195
infrared spectra of, continuum, (E), 24:17545
intensity observations of, effects of scattered light on, (E), 25:40254
intensity profile in far infrared and millimeter regions, (E), 22:17288
intensity ratio of spot umbra to, (E), 22:49872
interplanetary field origin in, (T), 22:38646 (AD-664509)
iron abundance in, (E), 23:39211
iron abundance in, (E), 23:46189
iron abundance in, (E), 24:17539
iron abundance in, (E), 25:30170
iron abundance in, (E), 24:4944
iron abundance in, (E), 25:7088
iron abundance in, (E), 23:10390
iron abundance in, (E/T), 23:51299
iron abundance in, (T), 24:44900
iron abundance in, (T), 22:8940
iron abundance in, (T), 24:23667
iron abundance in, (T), 24:25887
iron abundance in, effects of core opacity on, (T), 24:8290
iron abundance in, effects on opacity of solar core, (E), 24:37117
iron abundance in, inconsistencies in, (E/T), 25:49645
iron spectra in, forbidden lines of Fe II, (E), 23:39211
iron-group-nuclei abundances in, (E), 23:39200
magnetic field and sightline velocities in, (T), 23:36391
magnetic field of, comparison to interplanetary field, (E/T), 24:51336 (AD-709073)
magnetic field of, comparison with interplanetary magnetic field, (E/T), 22:890
magnetic field of, comparison with interplanetary field, (E), 25:11603
magnetic field of, differential rotation of, (E), 24:44906
magnetic field patterns associated with large-scale convective motions, (T), 25:49672
magnetic field strength in, (E), 24:17531
magnetic fields associated with "disappearing penumbra" phenomenon, (E), 23:39195
magnetic fields in pores, (E), 24:42452
magnetic fields in quiescent prominences, (E), 24:23685
magnetic fields in, (E), 24:44907
magnetic fields in, (E), 25:9095(T) (CSIRO-Trans-10258)
magnetic fields in, (E), 25:9096(T) (CSIRO-Trans-10289)
magnetic fields in, (E), 22:29158
magnetic fields in, (E), 23:30257
magnetic fields in, (E), 22:11189
magnetic fields in, (E/T), 25:22306
magnetic fields in, (E/T), 24:37084 (AD-694034)
magnetic fields in, (T), 23:18343 (AD-674527)
magnetic fields in, following proton flares, (E), 25:13893
magnetic fields in, line formation in, (T), 24:28022
magnetic fields in, on Mar. 7, 1970, (E), 24:37132
magnetic fields in, relation to 1420 MHz radio emission, (E), 23:30258
magnetic fields in, relation to central intensities in some Fraunhofer lines, (E), 23:10384
magnetic fields in, relation to filaments, (E), 23:36367
magnetic fields near sunspots in, longitudinal component of, (E), 23:36370
magnetic fields of, fine structure of, (T), 22:34146
magnetic fields of, flare positions relative to, (E), 22:880
magnetic fields of, relation to radio-emission spectra, (E), 22:36667
magnetic fields of, relation to solar oblateness, (T), 24:12573
magnetic knots in, properties of, (E), 24:3108
magnetic-field concentration in deep convection zone, (T), 23:36373
magnetic-field configurations in, perspective effects in, (E), 24:10330
magnetic-field distribution in active region of July 7, 1966, (E), 23:22773
magnetic-field distribution in, relation to solar activity, (E), 23:32114
magnetic-field expulsion from, (T), 23:41859
magnetic-field fine structure in active regions, (E), 23:36385
magnetic-field fine structure of, production by convection, (E/T), 25:7070
magnetic-field geometry in, method for determining, (E/T), 25:22304
magnetic-field intensities in, during spicule formation, (T), 23:51269
magnetic-field intensity in, (T), 25:40261
magnetic-field oscillations in, five-minute, (E), 25:49632 (AD-713856)
magnetic-field patterns in, (E), 22:36617
magnetic-field patterns in, large-scale, (E), 23:10412
magnetic-field patterns in, persistent, (E), 22:31560
magnetic-field polarity in, (T), 24:4941 (AD-692393)
magnetic-field polarity of, relation to interplanetary field, (E), 23:39187
magnetic-field rotation, rigid and differential, (E), 25:7068
magnetic-field structure in, (E), 23:30259
magnetic-flux quantization in, (E), 24:10304
magnetohydrodynamics of layers in, (T), 23:36372
mercury abundance in, (E), 25:925
metal abundance in, (E/T), 25:11610
model for A/sub m/ stars, (T), 22:4930
model for sunspot layers, (T), 25:40278
model for, (T), 22:24017
model for, (T), 25:49665
model for, empirical continuum, (T), 25:27369
model for, inhomogeneous, (T), 23:25104
model for, modification of Bilderberg Continuum Atmosphere, (T), 22:17282
model of, (T), 22:26175
model of, assuming local thermodynamic equilibrium, 21:20644
model of, Bilderberg, 22:17274
model of, using revised iron abundance, (E), 23:46189
models for solar and stellar, (T), 24:17429
models for, granulation, (T), 24:3097
models of faculae, (E/T), 25:7074
molecular abundances in, (E), 23:32111
molecular abundances in, (T), 23:39190
molecular vibrational states in, Boltzmann distribution for, (T), 25:40273
morphology of active regions, (T), 22:26189
motion in, small-scale, (E), 24:17567
motion in, velocity field distribution in, (E), 25:19404
motion of, (T), 23:44089 (AD-681456)
network of, interference filter for observing, (E), 24:42451
neutron production in, mechanisms for, (T), 25:33000
nickel abundance in, (T), 24:25887
nuclear charge composition of, (E), 22:52408
oblateness of, turbulent viscosity forces as cause of, (T), 21:39718
observation of, multichannel magnetograph, 24:10305
observations at Catania Observatory during 1968, 24:51347
observations in 1966 of, optical, (E), 23:5168
opacity of layers of, continuous, (E), 22:17285
opacity of, effects of H_3^+ on, (T), 24:23669
oscillations and Doppler velocity gradients in, short-period, (E), 24:17568
oscillations in, model for, (T), 25:13901
oscillations of, effects on hydrodynamics of solar atmosphere, (T), 24:44895
oscillations of, five-minute, (E/T), 25:7086
oscillations, spatial and temporal properties of, (E), 22:43798
oxygen abundance in, (E), 22:17280
oxygen abundance in, (E), 23:10388
photography of bright network in, (E), 24:28030
physical conditions in faculae and, (E), 25:40272
physical parameters of, (E), 22:52443
physics of, (T), 22:34143 (CNIE-PE-8)
plage structure in, vertical, (E), 25:13882
profiles of Hα line in the neighborhood of moving prominence, (T), 22:21795
properties of calcium plage producing post-limb flare of March 2, 1966, (E), 22:13170
properties of, correlations between brightness, velocity, and magnetic fields for, 22:34180
radiation at 2000 A to 100 μ from, (E), 22:52353
radiation field of, effect of uv continuum on, (T), 23:5099
radiation from, effects on coronal ions, (T), 23:44116
radiation intensity profiles in, Hα, (T), 22:21794
radio emission from small-area spot groups in, (E), 22:45899
resistive effects in turbulent, finite, (T), 25:30180
resonance scattering of solar radiation in prominences, (T), 21:41699(T) (NASA-TT-F-455, pp 1-14)
rhenium abundance in Fraunhofer spectrum of, (E), 24:42447
rotation as function of height in, (E), 24:3114
rotation of, differential, 24:10288
rubidium abundance in, (E), 22:43832
scanning of, Mt. Wilson magnetograph, (E), 22:43798
silicon abundance in, (E), 22:23933
solar-flare model, (T), 23:36422
spectra for bright prominences, (E), 21:41701(T) (NASA-TT-F-455, pp 28-37)
spectra from 3.5 to 24.4 μ, infrared, (E), 24:28004
spectra in region of lithium resonance lines, Fraunhofer, (E), 22:31575
spectra in, Fe 5250 and Fe 5233, (E), 23:32103
spectra in, generalized theory calculation of lambda 5250 triplet Zeeman, 22:43911
spectra of active and undisturbed, line profiles in, (E), 25:45252
spectra of faint and bright prominences, 21:41700(T) (NASA-TT-F-455, pp 15-27)
spectra of granulation of, (E), 22:29131
spectra of granulation of, (E), 22:29093
spectra of granules in, color in, (E), 22:29155
spectra of lower, (E), 22:29011
spectra of transition region with chromosphere, (E/T), 25:27370
spectra of transition zone with chromosphere, infrared, (E), 24:37098
spectra of water vapor in, absorption, (E), 24:3106
spectra of, (T), 22:13134
spectra of, (T), 21:41720
spectra of, absolute wavelengths of Fraunhofer lines in, (T), 22:29063
spectra of, analysis of equivalent widths of Fraunhofer lines in, (E), 23:10388
spectra of, asymmetries of iron lines in, (T), 21:33030 (NP-16850)
spectra of, broadening of Balmer line series in, (T), 23:6850
spectra of, center-limb observations of Mg b lines in, (E), 25:911
spectra of, complete photoelectric, (E), 24:42453

spectra of, continuum intensity of faculae in, 21:24878
spectra of, continuum source function in, (T), 22:29010
spectra of, damping constants for infrared Fraunhofer lines in, (T), 24:17572
spectra of, depth-dependent line blanketing by metals in, (T), 24:17569
spectra of, detection of weak molecular and atomic lines in, (E), 23:10389
spectra of, effect of macroturbulence on Fraunhofer lines in, (T), 25:27400
spectra of, effect of seeing on velocity measurements in, (E), 22:29140
spectra of, equivalent widths for Fe II lines in, (E), 23:36353
spectra of, equivalent widths of forbidden lines of singly ionized iron in, (E), 23:10390
spectra of, excitation of $H\alpha$ line in chromosphere, (T), 21:41706(T) (NASA-TT-F-455, pp 65-70)
spectra of, forbidden lines of Ca II in, (E), 23:32110
spectra of, gallium abundance from, 21:37022
spectra of, identification of silicon hydride ion in, (E), 25:9120
spectra of, K-line profiles in, (E), 25:58596
spectra of, magnetograph measurements with temperature-sensitive lines, (E), 24:10303
spectra of, mechanism for formation of cyanogen lines in, (T), 24:42441
spectra of, microwave absorption lines from dielectronic recombination of highly ionized atoms, (T), 22:31553
spectra of, origin of short-period oscillations in, (E), 22:29141
spectra of, profiles and asymmetry of Fraunhofer lines in, (E), 23:46191
spectra of, search for CH^+ in, (E), 25:55768
spectra of, search for quarks in, (E), 22:21836
spectra of, silicon hydride bands in Fraunhofer, (E), 24:35107
spectra of, variations in line profiles in transition region with chromosphere, (E), 24:37130
spectra of, wavelengths of forbidden lines of neutral oxygen in, (E/T), 22:29074
spectra, observations of wing of $H\alpha$ line in, (E), 23:12485
spectra, origin of short-period oscillations in, (E), 22:29139
spectral absorption lines in, (T), 23:10387
spectral line profiles in, europium- and lanthanum-ion, (E), 25:11613
spectral lines in faculae, magnetically nonsplit, (E), 25:47277
spectral lines in high, flare effects on, (E), 24:19649
spectral polarization of, (E/T), 25:11610
spectral profiles of, determination of van der Waals broadening, (E/T), 25:38095
spectral-line profiles of, numerical experiments on, (E), 25:9119
spectroheliogram study of evolution of network of, (E), 24:3101
spectrum of, center-to-limb behavior of molecular lines in, (T), 22:17279
spectrum of, identification of forbidden line lambda 7323.88 A of Ca II in, (E), 22:23925
spectrum of, oscillations of lines in, (E), 21:24887
spectrum of, resonance lines of ionized calcium and magnesium in, 22:4933
spectrum of, saturation function PSI (a,y) for, 22:13101
state of, prior to the appearance of sunspots, (E), 23:36379
structure of, coarse, (E/T), 24:3098
structure of, nonhomogeneous, (T), 22:26181
structure of, observation and properties of network, (E), 23:10401
structures in, formation of giant regular, (T), 25:906
sulfur abundance in, (E), 22:36618
sulfur abundance in, (E), 22:31550
sunspot brightness variations in, (E), 23:25083
sunspot umbrae, mean temperature gradients in, (T), 24:3104
sunspot umbral model, (T), 22:881
supergranulation in, magnetic fields associated with, (T), 24:35091
temperature distribution in, simplified model for, 22:17281
temperature distributions from center-limb variation of central intensities, (E), 21:41717
temperature fluctuations in lower, (E), 22:29011
temperature fluctuations in, (E), 23:25087
temperature fluctuations in, (T), 24:25920
temperature fluctuations in, mean limb darkening and second maximum for, (T), 24:3096
temperature model for, (T), 22:17283
temperature of carbon monoxide layer in, (E), 25:7055
temperature of, (E), 24:10276
temperature of, from cyanogen violet system, vibrational, (E), 25:45251
temperature perturbations in, relaxation time of, (T), 24:17548
temperature reversal in, following acoustic waves, (T), 22:41201
temperature-height profile of, from review of models, (T), 25:49644
temperatures for carbon monoxide in, vibrational and kinetic, (E), 22:7093
temperatures in line-gap regions, (E), 24:44908
temperatures of layers of, from Lyman-α and -β spectra, (E/T), 22:11173
transition region with chromosphere, line profiles and flash intensities in, (T), 25:13878
turbulence in, (E), 23:10389
turbulence in, (T), 23:6856
turbulence in, distinction between micro- and macro-, (T), 21:31138
turbulent velocities and damping constants in, (E), 25:19420
turbulent velocities in, (E), 23:27308
variations of supergranular network of, time and shape, (E), 24:44909
velocities in active and unperturbed, turbulent, (E), 24:25904
velocities in, (E/T), 25:22306
velocity field in, oscillatory and slowly varying components of, (E), 25:49667
velocity field in, turbulent, (T), 23:20629
velocity field of, model for, (T), 25:22305
velocity field of, reduction into oscillatory and slowly-varying components, (E), 25:47274
velocity field of, sodium experiment for, (E), 25:47275
velocity fields in active regions of, (E), 23:6847
velocity fields in active regions, temporal variations of, (E), 25:35750
velocity fields in facular and quiet regions of, (E), 25:22319
velocity fields in, (E), 24:17533
velocity fields in, (E), 24:44907
velocity fields in, 5-min oscillations and supergranulation, (E), 24:3099
velocity fields in, five-minute oscillations and supergranulation in, (E), 23:44100 (AD-687768)
velocity fields in, method for obtaining, (E), 23:34228
velocity fields in, oscillatory and supergranular motions at a function of height, (E), 25:32991
velocity fields in, properties of, (E), 22:882
velocity fields in, spatial distribution of the oscillatory field, (E), 24:3100
velocity fields in, spatio-temporal analysis of, (E), 22:41157
velocity fluctuations in lower, (E), 22:29011
wave generation in, heating of corona by, (T), 23:27292 (N-69-11448)
wave generation in, ion—acoustic, (T), 22:52414
wave motion in regions of continuous emission strips, (E), 22:8988

PHOTOSYNTHESIS
see also Chlorophylls
see also Chloroplasts
see also Hill Reaction
see also Photochemistry
bibliography on, 21:21822 (BNL-989)
book: Comprehensive Biochemistry, Vol. 27. Photobiology, Ionizing Radiations, 22:49222
carbon fractionating during, of algae and tobacco grown in presence of deuterium, 21:17955
chemical reactions during, abstracts of conference papers on, 25:32356 (CONF-690841-(Absts.))
effects on uptake of manganese-54 and technetium-99 by plankton in seawater, 25:32329
electron spin resonance measurement in, using photoreactive material in reaction centers, 22:53501(R) (NYO-3759-5)
energy conversion during, 22:10118 (BNL-50051)
energy conversion during, by benthic algae, 21:34627(R) (UH-235-P-4-2)
energy conversion processes during, 21:21822 (BNL-989)
energy conversion processes in, mechanisms for, 21:22772
enzymology of, research progress on, 25:34472(R) (RIAS-3706-16)
measurement in green algae, evaluation of methods for, 21:8746 (ORNL-4007, pp 43-119)
measurement in marine algae using carbon-14, 24:31803
measurement in phytoplankton of Chesapeake Bay during summer of 1964, 21:36479(R) (NYO-3497-11)
measurement of rate of, in phytoplankton, 21:47023(R) (NYO-1918-148 and App. A and B)
measurement of rate of, in soybean canopies, effects of row-spacing on, 21:28685
mechanisms in, 24:29127(R) (NYO-3759-17)
mechanisms of, role of triplet states in, 22:35829(R) (CALT-383-5)
metabolic pathways in, determination by radioisotopes, 23:31618
mutations in photosystem II portion of, research on, 25:2036(R) (RLO-2227-T-3-1)
oxygen-18 determination in products of, use of activation analysis for, 23:4553
photochemistry and enzymology of, 24:16387(R) (RIAS-3706-15)
pigment development and organization in, 25:15462 (UCRL-20202)
products of, ESR studies on illuminated, 21:3375 (UCRL-16806, pp 6-8)
radiation effects on carbon-14 activity during, in cotton and maize, γ, 23:22236
radiation effects on phytoplankton, additive effects of thermal shock on γ, 25:37756 (RLO-2225-T-1-4)
radiation effects on, by blue-green algae, uv, 23:5056
radiation effects on, effects of plastoquinone on uv, 23:7933(R) (RLO-1783-18)
radiation effects on, in algae and spinach chloroplasts, uv, 21:30781
radiation effects on, in Ankistrodesmus braunii, x, 21:24682
radiation effects on, in ash seedlings, effects of seed exposure on γ, 23:8085
radiation effects on, in biological materials, laser, 24:2569
radiation effects on, in cotton seedlings of different radiosensitivities, γ, 21:9015
radiation effects on, in plants at high altitudes, combined effects of temperature on uv, 21:4885
radiation effects on, in seedlings of silver maple and yellow poplar, effects of reduced light on fast neutron, 25:27076
radiation effects on, in silver maple and yellow poplar, effects of light intensity on fast neutron, 25:21622 (ORNL-4634, pp 56-70)
radiation effects on, in unicellular green algae, x, 21:3388
radiation effects on, of potato plants, γ, 21:6445
radiation effects on, of sugar beets, γ, 21:6717
radioinduced inhibition of, in peas, γ, 21:4753
radioisotope studies of, review of energetics and kinetics of, 24:50696
rate in vascular hydrophytes, effects of seasons and time of day on, 22:19299(R) (NYO-3018-18)
reaction mechanisms for carbon compounds in, 21:3395 (UCRL-16806, pp 25-30)
reactions, effects of light and oxygen on, 22:28285 (ORNL-4100, pp 135-40)
regulation of carbon reduction cycle in, metabolic, 23:9845 (UCRL-18216, pp 1-43)
research on, review of use of radioisotopes for, 24:23090
role of chloride ions in, 22:53493 (BNL-12532)
tracer studies in unicellular algae, preparation of carbon-14-labeled carbon dioxide for, 25:23945

Phototubes
see Photoelectric Cells

Photovoltaic Cells
see Photoelectric Cells

Phthalates
see salts under Phthalic Acid

PHTHALAZINE
complexes with uranium chlorides, preparation and physical properties of, 25:6327
complexes with uranium pentachloride, properties and spectra of, 23:43329
radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428

1,4-PHTHALAZINEDIONE, 5-AMINO-2,3-DIHYDRO-
chemiluminescence of, 23:31255 (MIT-905-133, pp 37-77)
luminescence in dimethyl sulfoxide and water, 21:15878(R) (MIT-905-81)
luminescence of, chemical mechanisms for, 22:30410(R) (NYO-3401-4)
reactions with hydrogen peroxides, effects of thorium on chemiluminescent, 24:11443
sodium salt, luminescence of, in dimethyl sulfoxide and water, 21:15878(R) (MIT-905-81)
spectra in methyl sulfoxide as function of time, chemiluminescence, 22:27626 (MIT-905-108, pp 33-62)

PHTHALALDEHYDE
polymerization to cyclopolymer, cationic, 23:28882
radioinduced polymerization to cyclopolymer, 23:28882

PHTHALEIN DYES
discoloration of aqueous alkaline solutions of Thymol Blue, effects of x-agent on, 21:25922
chlorobenzene—ethanol—thymolsulfonphthalein—toluene, radiolysis of, γ, 21:23990
chlorobenzene—ethanol—thymolsulfonphthalein—trimethylpentane, radiolysis of, γ, 21:23990
chlorohydrocarbons—ethanol—hydrocarbons—thymolsulfonphthalein, use as low-level chemical dosimeter, 21:6313

PHTHALIC ACID
complexes with neptunium, kinetic studies of, 22:27893
derivatives, complexes with uranium and EDTA or NTA, formation of, 21:27962
potassium acid salt of, properties as secondary ligand in uranium(IV) chelates, 21:35978
potassium acid salt, radiation effects on stability of buffer solutions of, γ, 24:13777 (ORNL-4466, pp 62-88)
potassium salt, complexes with EDTA or HEDTA in aqueous solutions, stability constants for, 24:27063
potassium salt, deuterium exchange reaction in transcarboxylation of mixture of deuterated and nondeuterated, mechanism of, 25:10545
reactions of ions of, with hydrated electrons, activation energy for, 22:23034 (IA-1128, pp 78-96)
reactions of, with uranyl ions, complex formation in, 21:14194
H_2O—phthalic acid—$Th(NO_3)_4$, phase studies of, effects of solvents on, 21:19607
potassium phthalate—$Th(NO_3)_4$, precipitate composition in aqueous solutions of, 21:10347

PHTHALIC ACID, BUTYL-, DIBUTYL ESTER
solvent properties of, for uranyl nitrate, 21:8410

PHTHALIC ACID, DIALLYL ESTER
cure rate of filled and unfilled, measurements using oscillating disk rheometer, 23:21598 (MLM-1550)
poly(diallyl phthalate)—vinyl compound, polymerization for coating woods, electron, 25:10606 (JAERI-5026, pp 101-7)
properties of mineral-filled, as mounting material for scandium oxide—zirconium oxide metallography, 24:8197 (CONF-670533-, pp 16-22)
radioinduced cross-linking of, with acrylonitrile polymers, 21:24041(P)
radioinduced cross-linking of, with cellulose acetate, 21:24041(P)
acrylonitrile—benzoyl peroxide—diallyl phthalate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
acrylonitrile—benzoyl peroxide—diallyl phthalate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
acrylonitrile—bis(2-hydroxyethyl methacrylate) phosphate—butyl acrylate—poly(diallyl phthalate), radioinduced polymerization of coatings of, on metals, electron, 25:10608 (JAERI-5026, pp 121-9)
acrylonitrile—diallyl phthalate, radioinduced curing of, using benzoyl peroxide catalyst, electron, 24:11570 (JAERI-5022, pp 103-10)
acrylonitrile—diallyl phthalate, radioinduced curing of, conditions for electron and γ, 24:31397
acrylonitrile—poly(diallyl phthalate), radioinduced polymerization in wood, γ or electron, 25:10607 (JAERI-5026, pp 108-20)
benzoyl peroxide—butyl acrylate—diallyl phthalate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
benzoyl peroxide—butyl acrylate—diallyl phthalate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)

benzoyl peroxide—diallyl phthalate—methyl acrylate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
benzoyl peroxide—diallyl phthalate—methyl acrylate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, effects of allyl acrylate on electron, 24:11571 (JAERI-5022, pp 111-24)
benzoyl peroxide—diallyl phthalate—methyl methacrylate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
benzoyl peroxide—diallyl phthalate—methyl methacrylate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
benzoyl peroxide—diallyl phthalate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, electron, 24:11571 (JAERI-5022, pp 111-24)
diallyl phthalate—methyl acrylate, radioinduced curing of, conditions for electron and γ, 24:31397
diallyl phthalate—methyl acrylate, radioinduced curing of, using benzoyl peroxide catalyst, electron, 24:11570 (JAERI-5022, pp 103-10)
diallyl phthalate—methyl methacrylate, radioinduced curing of, conditions for electron and γ, 24:31397
diallyl phthalate—vinyl acetate, radioinduced curing of, using benzoyl peroxide catalyst, electron and γ, 24:11570 (JAERI-5022, pp 103-10)
diallyl phthalate—vinyl acetate, radioinduced curing of, for use as laminate for wood veneer, effects of catalysts on electron, 24:11571 (JAERI-5022, pp 111-24)
diallyl phthalate—vinyl acetate, radioinduced curing of, conditions for electron and γ, 24:31397

PHTHALIC ACID, DIBUTYL ESTER
effects on photoluminescence of irradiated plexiglass, 21:24030

PHTHALIC ACID, 3-NITRO-
complexes with uranyl ions, preparation and stability of, 22:27655

PHTHALIC ACID, 4-NITRO-
complexes with uranyl ions, preparation and stability of, 22:27655

PHTHALIC ACID, TETRACHLORO-, ETHYLENE POLYMER ESTERS
radiation effects on, in dioxane solutions, spectral studies on γ, 24:46272

PHTHALIC ANHYDRIDE
effects on yields from γ radiolysis of tetrahydro-2-methylfuran or tetrahydrofuran, 24:11588
1,6-hexanediol—phthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343
ethylene glycol—phthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343

PHTHALIC ANHYDRIDE, TETRACHLORO-
1,2-propanediol—tetrachlorophthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343
1,6-hexanediol—tetrachlorophthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343
adipic acid—1,6-hexanediol—tetrachlorophthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343
ethylene glycol—tetrachlorophthalic anhydride, radiation effects on polyester from, in air, nitrogen, and vacuum, γ, 24:29343

PHTHALIDE, 3-METHOXY-3-PHENYL-
hydrolysis in aqueous sulfuric acid, effects of deuterium on, 22:45062

PHTHALIMIDE, N-1,3-BUTADIENYL-
polymerization of, 22:18835
radioinduced graft polymerization on polyethylene, α, β, γ, x, or high-energy neutrons, 24:11595(P)
radioinduced polymerization on polyethylene, γ, 22:18835

Phthalimide, N-(2,6-Dioxo-3-piperidyl)-
see Thalidomide

PHTHALIMIDE, N-VINYL-
radioinduced graft polymerization with polyethylene, reactions of propylamine with products from γ, 21:42971
radioinduced polymerization of solid-state and dimethylformamide solutions of, γ, 23:15910
radioinduced polymerization of, in solid and solution states, 22:10288

PHTHALOCYANINE
complexes with antimony, bismuth, hafnium, thorium, and uranium, preparation and absorption spectra of, 21:19601
complexes with cadmium, radiation effects on, chemical behavior of cadmium-115 recoil atoms produced by neutron, 24:46254
complexes with cadmium, radiation effects on, study of recoil cadmium-115 from neutron, 23:33218
complexes with cobalt, method for separation of cobalt complex with aniline from, 22:2102
complexes with cobalt, nickel, or zinc, radiation effects on, reactions of recoils from bremsstrahlung or neutron, 25:21071
complexes with cobalt, radiation effects on alpha- and beta-, thermal annealing of recoil cobalt-60 from neutron, 25:4130
complexes with cobalt, radiation effects on, thermal annealing of recoils from neutron, 25:32020
complexes with cobalt, Szilard-Chalmers reaction in, yields of cobalt-60 in, 22:2102
complexes with copper, neutron irradiation of, production of copper-64 by, 21:17675
complexes with copper, radiation effects on, reactions of recoil copper-64 from neutron, 24:38911
complexes with copper, reactions in, effects of crystal morphology on Szilard-Chalmers, 23:31381
complexes with divalent copper, use in determination of cerium, 24:2133
complexes with hafnium and zirconium, Szilard—Chalmers reactions of, isotope effects in, 23:4673
complexes with hafnium and zirconium, Szilard-Chalmers reactions in, recoil energies in, 22:37776 (BNL-50082, pp 79-92)
complexes with indium chloride, radiation effects on, Szilard—Chalmers process from neutron, 25:54680
complexes with indium, Szilard—Chalmers reactions in, production of isomeric indium-114 by, 22:16616
complexes with iron, catalytic effects of mixture of, with sulfur-35-labeled and normal barium sulfate on decomposition of hydrogen peroxide, 23:15891
complexes with iron, Moessbauer spectral studies on, 23:38027(R) (NYO-2269-13)
complexes with metals, Szilard-Chalmers reactions in irradiated, 22:33429
complexes with neptunium and protactinium, preparation of, from corresponding thorium and uranium complexes by elemental transformations, 24:48144
complexes with rare earths, radiolysis of, separation of recoil products from 660-MeV proton, 24:36332
complexes with thorium and uranium, preparation of, method for, 24:48144
complexes with thorium and uranium, properties and spectra of, 23:4631
complexes with titanium oxides, preparation and properties of polymeric, 24:11505 (IA-1190, pp 133-81)
complexes with uranium, preparation and properties of, 21:87
complexes with zinc, neutron reactions (n,γ) with, effects of crystal structure and isotope effects on behavior of recoil atoms from, 24:2243
complexes with zinc, reactions of recoil zinc-69m in neutron-irradiated, 23:331
complexes with zinc, recoil energy in γ- and neutron-irradiated crystals of, effects of initial retention on, 23:28916
compounds with gallium, radiation effects on, Szilard—Chalmers reactions in neutron, 24:4329
compounds, spectra of matrix-isolated, at 20°K, 23:40616 (UCRL-18735, pp 5-80)
properties of semiconductor detectors of, 25:23788
wear of bonded films of, at 20 to 800°C in carbon dioxide, 23:12414 (RD/B/N-1186)

PHTHALONITRILE
complexes with ruthenium and triphenylphosphine, ir and NMR spectral studies on, 23:49782
reactions with thorium and uranium tetraiodides, properties and spectra of diphthalocyaninatothorium(IV) and -U(IV) produced by, 23:4631

PHWR (Canada)
see Pressurized Heavy Water Reactor

PHYCOCYANINS
interaction with proteins, effects of deuterium on, 21:26373
preparation for x-ray diffraction studies, 21:22233 (BNL-994, pp 113-23)

Physa
see under Mollusca

PHYSICAL CHEMISTRY
see also Thermodynamics
bibliography of publications on, at Harwell, 1966, 21:21855 (AERE-Bib-152)
book: Annual Review of Physical Chemistry, 22:2073
book: Annual Review of Physical Chemistry. Vol. 19, 23:15871
book: Annual Review of Physical Chemistry, Vol. 21, 24:48082
book: Annual Review of Physical Chemistry. Volume 20, 23:43322
book: Chemical Consequences of Nuclear Spin, 25:30669
book: Handbook of Liquid—Solid Equilibria in Systems of Anhydrous Inorganic Salts, Vol. 1. Binary Systems, Vol. 2. Ternary and Multicomponent Systems, 24:22617(T) (AEC-tr-6983/1 and 2)
book: Influence of Isotopy on the Physicochemical Properties of Liquids, 24:38888
book: Phase Diagrams of Silicate Systems, in Russian, 24:16493
book: Physical Chemistry of the Solid State. Selected Problems, 24:10613
book: Stochastic Processes in Chemical Physics, 24:24201
conference on aerothermochemistry, 22:928 (AGARD-CP-12(Vol.1))
conference on aerothermochemistry, 22:939 (AGARD-CP-12(Vol.2))
conference on structure and chemistry of solid surfaces, Berkeley, Calif., 1968, (T), 24:10612
conference on, 159th ACS, Houston, Feb. 22 to 27, 1970, abstracts of, 25:64
conference on, 160th ACS, Chicago, Sept. 14 to 18, 1970, abstracts of, 25:63
conference on, Beersheba, October 8 to 10, 1968, 23:28674
research at Hebrew Univ. of Jerusalem, 1965-66, 22:6210(R) (NP-17097)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at Juelich Nuclear Research Center, 1969, 25:15964(R) (NP-18602)
research at Juelich, 1968, 24:27470(R) (NP-18083)
research progress on fundamentals of effusion and thermodynamics of materials, 25:57435(R) (COO-1029-39)
research progress on studies in, of high temperature systems, 25:8161(R) (ORO-2907-73)
solvent extraction in, review on, 22:6398
symmetry theory in, lectures on point, 21:32073 (TID-23857)
theory of effect of lattice defects in nonstoichiometric chemical reactions, review, 22:19659

PHYSICAL CONSTANTS TESTING REACTOR
core configuration for uranium-fueled bismuth metal-target, description of 5 x 5 lattice, 22:44885 (BNWL-692)
core configurations for T-shaped Supercell and 6 x 6 Test Cell in, description of, 22:42164(R) (BNWL-775)
core variations for, description of, neutron flux, 22:22804(R) (BNWL-685)
critical enrichment of hydrogenous uranyl nitrate systems in, determination of minimum, 22:12087 (BNWL-472, pp 5.1-16)
cross section evaluation in neutron cavity of, 24:23534 (BNWL-1279, pp 5.1-27)
design parameters of Fast Neutron Cavity, 24:18697(R) (BNWL-1304)
experimental facilities for, design parameters and safety tests for Fast Neutron Cavity, 23:23955 (BNWL-CC-1704)
fast fission measurements in, use of uranium isotopes for, 22:16270 (BNWL-633)
fuel assemblies for, RBU Monte Carlo analysis of urania 19-rod cluster of, 21:38707
fuel assemblies of, computer program methods for physics measurements in multi-composition and multi-configuration, (E/T), 22:37531 (DUN-SA-70)
fuel cell configuration for, description of light water-moderated plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:32743(R) (BNWL-739)
fuel elements for, null reactivity measurements in tubular, 22:48727 (BNWL-834)
fuel elements in graphite lattice of, effects of coolant flooding on physics parameters of uranium-metal, 23:13539(R) (BNWL-921)
fuel elements in, fast fission factor and initial conversion ratios in tubular, 22:48727 (BNWL-834)
fuel elements in, neutron multiplication factors and utilization ratio measurements in tubular, 22:48727 (BNWL-834)
fuel isotopic content, analysis of uranium, 22:18545 (BNWL-622)
fuel testing in, grain size effects on reactivity of plutonia—urania, 21:34154 (BNWL-427)
kinetics of Phoenix Core in, measurement of, 22:42164(R) (BNWL-775)
lattice cell parameters for, comparison of one- and two-dimensional calculations and measurements of, 24:7304
lattice constants measurements in 19-rod urania assembly in, 21:31904 (BNWL-SA-1176)
lattice parameter measurements in, 22:33044
lattice parameters for water-cooled—graphite-moderated integral target fuel in, comparison of measured and theoretical, (E/T), 23:17280 (BNWL-904)
multiplication factor for uranium—aluminum fueled fast core in, (E/T), 24:46122(R) (BNWL-1381-2)
multiplication factor for water moderated uranium oxide (UO_2)—plutonium oxide (PuO_2) lattices in, (E/T), 24:46122(R) (BNWL-1381-2)
multiplication factors for tubular fuel elements with integral target rods in water lattices, infinite medium, (E/T), 25:1966 (BNWL-1501)
neutron cross section evaluation in, use of Fast Neutron Cavity for, 25:18098(R) (BNWL-1522-1)
neutron flux measurements in, 22:22804(R) (BNWL-685)
neutron flux spectra in Fast Neutron Cavity of, multiple foil activation measurements of, (E/T), 24:47896 (BNWL-1487)
neutron flux spectrum in Fast Neutron Cavity of, measurement of, 23:13539(R) (BNWL-921)
neutron multiplication factor determinations in plutonium oxide (PuO_2)—uranium oxide (UO_2) graphite lattices in, 22:12085 (BNWL-472, pp 3.1-33)
neutron multiplication factor for uranium—lithium supercell in, determination of infinite medium, (E/T), 22:27459 (BNWL-634, pp 3.1-27)
neutron multiplication factor in, measurement in graphite moderated lithium and uranium square lattice supercell of infinite medium, 22:18545 (BNWL-622)
neutron multiplication factor measurements in, 21:35703 (BNWL-SA-769)
neutron multiplication factor measurements in, 22:33044
neutron multiplication factors in, poisoned and unpoisoned techniques for measurement of, 24:7168(R) (BNWL-1240)
neutron multiplication measurements in, use of uranium—lithium supercell for, 22:22804(R) (BNWL-685)
neutron production cross sections for uranium—lithium supercell in, determination of adjoint weighted excess, (E/T), 22:27459 (BNWL-634, pp 3.1-27)
neutron spectra in Fast Neutron Cavity, 24:7168(R) (BNWL-1240)
neutron spectra in Fast Neutron Cavity, 24:18697(R) (BNWL-1304)
neutron spectra in Fast Neutron Cavity of, measurement of GCFBR and FTR lattices, 24:31041(R) (BNWL-1381-1)
neutronic parameters in water-moderated plutonium oxide (PuO_2)—uranium oxide (UO_2) lattice in, measurement of microscopic, 23:15738(R) (BNWL-963)
physics experiments in, calculations for fast, 22:14255 (BNWL-CC-886)
physics measurements for aluminum—enriched uranium alloy and aluminum—lithium alloy 6 by 6 supercell lattice in graphite moderated, (E/T), 23:49583 (BNWL-1029)
physics measurements for multiple-configuration fuel-target lattices in, use of EXTERMINATOR-2 and HAMMER computer program combinations for, 22:53412 (DUN-SA-55)
physics measurements for plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled, analysis of, 23:6020(R) (BNWL-887)

physics measurements for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled, 24:18697(R) (BNWL-1304)
physics measurements for thorium oxide (ThO$_2$)—uranium oxide (UO$_2$)-fueled, description of, 22:42164(R) (BNWL-775)
physics measurements for water-moderated plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) square lattice, 23:9237(R) (BNWL-907)
physics measurements of, multigroup method for, (T), 23:33080(R) (BNWL-1053)
plutonium-239 neutron capture-to-fission ratio in fast spectra, integral measurements of, (E), 22:35288 (BNWL-774)
reactivity measurements in, effects of water losses on, 22:33044
reactivity measurements on plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)—water lattices in, plutonium oxide (PuO$_2$) particle size effects on, 22:20779 (BNWL-624, pp 3.1-159)
reactivity multiplication factor for multiple configuration thorium oxide (ThO$_2$)-target supercell of 8 x 8 lattice, measurement of infinite medium, 22:50800 (BNWL-792)
reactivity of 0.8 percent enriched uranium fueled graphite moderated lattices in, effects of various water coolant and flooding conditons on, (E), 23:52401 (BNWL-1153)
reactivity of 5 x 5 lattice uranium-fueled bismuth metal-target, computer program and activation analysis for, (E/T), 22:44885 (BNWL-692)
reactivity of aluminum—plutonium—thoria cells in, (E/T), 21:8093
reactivity of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled, effects of americium-241 buildup and plutonium-241 decay on, 24:31041(R) (BNWL-1381-1)
reactivity worth measurements in, determination of critical uranium-235 enrichment for uranyl nitrate using, 22:14251(R) (BNWL-534)
reactivity worth of graphite moderated thorium oxide (ThO$_2$)—uranium oxide (UO$_2$) fuel blocks in, 24:31041(R) (BNWL-1381-1)
test facility in, neutron flux measurements in fast neutron, 24:7225

PHYSICAL SECURITY
(Covering procedures and devices for the physical protection of reactors, plants, etc.)
see also Alarm Systems

PHYSICS
see also Astrophysics
see also Atomic Physics
see also Biophysics
see also Cryogenics
see also Geophysics
see also Health Physics
see also High-Energy Physics
see also Low-Temperature Physics
see also Mathematical Physics
see also Mathematics
see also Nuclear Physics
see also Quantum Mechanics
see also Solid State Physics
bibliographies on, 23:11385 (STI/DOC-11(Vol.6)(No.3))
bibliography on high-temperature materials, 25:2665 (NBS-SPEC. PUBL-315-5)
bibliography on high-temperature, of gases and plasmas, 22:30506 (NP-17479)
bibliography on high-temperature, of materials in the condensed state, 22:21646 (NP-17284)
bibliography on surface and vacuum, 23:10431 (NP-17736)
bibliography on surface and vacuum physics, 23:27340
book: Advances in Theoretical Physics, Vol. 1, 21:18867
book: Advances in Theoretical Physics. Vol. 2, 23:23316
book: Applications of Mathematics to Problems in Theoretical Physics, 22:9684
book: Basic Medical Radiation Physics, 25:42555
book: Basic Physics for Dosimetry and Radiation Protection, 25:46846
book: Classical Descriptions of Motion, 23:51990
book: Clinical Applications of Physics of Radiology and Nuclear Medicine, 24:9907
book: Foundations of Physics, 21:42237
book: Fundamental Physics of Radiology, 23:38635
book: Fundamental Principles of Modern Theoretical Physics, 24:42853
book: Fundamentals of Gas-Surface Interactions, 22:11003
book: Fundamentals of Quantum Optics, 22:17843
book: Handbook of Physics (2nd Ed.), 22:9116
book: High-Speed Physics, 22:36134
book: In Honor of Philip M. Morse, 24:8552
book: Introduction to Modern Theoretical Mechanics, 25:36361
book: Introduction to the Physics of X and Gamma Radiation, 22:15734
book: Introduction to Theoretical Physics. Vol. I (in German), 25:38622
book: Lectures on K(X), 24:20038
book: Many-Body Physics (In French), 23:5507
book: Methods of Resolution of Some Boundary Problems in Mathematical Physics, 22:46293
book: Pade Approximant in Theoretical Physics, 25:28063
book: Physics and Chemistry of the Earth, 21:30538
book: Physics of Many-Particle Systems, 22:11565
book: Physics Pocket Book, 22:1374
book: Physics: The Behavior of Particles, 25:47773
book: Problems and Solutions in Mathematical Physics, 23:14930
book: Program of the Physical Experiments on a 1000-GeV Cybernetic Proton Accelerator, 22:41881(T) (AEC-tr-6936)
book: Quantum Theory and Statistical Physics, 23:5498
book: Radiation Physics. IV. Ionic Crystals, in Russian, 21:24034
book: Radioisotopes, 22:21146
book: Radiological Physics, 21:28508
book: Relativistic Physics, 23:21160
book: Selected Topics in Solid-State and Theoretical Physics, 22:46353
book: Spectroscopic and Group Theoretical Methods in Physics, 23:18766
book: Springer Tracts in Modern Physics, Vol. 46, 23:34512
book: Statistical Physics, 23:42527
book: Symbol-Manipulation Techniques for Physics, 23:34513
book: Symmetry Concepts in Modern Physics, 21:35324
book: Symmetry Principles in Quantum Physics, 24:42995
book: Symposia On Theoretical Physics. Vol. V, 22:13623
book: The Application of Automatic Apparatus in Physical Experiment, 23:35554
book: The Application of Group Theory in Physics, 22:39448
book: The Constructive Uses of Nuclear Explosives, 22:25562
book: The New Age in Physics, 21:35033
book: Theoretical Physics: Applications of Vectors, Matrices, Tensors, and Quaternions, 23:21028
book: Theory of Groups in Classical and Quantum Physics. Vol. 1. Mathematical Structures and the Foundations of Quantum Theory, 22:7465
book: Thermal Physics, 24:47344
book: Topics in Modern Physics: A Tribute to Edward U. Condon, 25:58682
book: Vector Bundles in Mathematical Physics Volume I, 25:33807
book: Vector Bundles in Mathematical Physics. Volume II. Applications to Quantum Mechanics, 25:33503
carbon-14 uses in, bibliography on, 21:1328 (PAEC(A) IN-652(Suppl.1))
catalog of reprints of scientific papers in the Pauli Collection, (T), 24:10647 (CERN-Bib-8)
classical, basic concepts of, 23:39591
commutator products in, Baker—Hausdorff formula for properties of higher-order, 22:41832
computational methods in, problems and perspectives of, 25:7516
conference, 23:39626
conference on, 25:38630
conference on atomic, molecular, and solid-state theory and quantum biology, Sanibel Island, Florida, 1/69. Part 1, 25:33509
conference on atomic, molecular, and solid-state theory and quantum biology, Sanibel Island, Florida, 1/69, Part 2, 25:33510
conference on computational, Culham, England, 7/69, 25:56400
conference on growth points of, Florence, Italy, 4/69, 24:39737
conference on mathematics and theoretical, 23:12995
conference on mathematics and theoretical, 24:40291
conference on problems of general and applied, at Kazakh, USSR on May 15 to 19, 1967, 23:46555
conference on theoretical, Birmingham, England, 6/67, (T), 25:59209
conference on theoretical, Marseille, France, 4/67, 24:10649
conservation laws in, geometrical derivation of, 24:30561
conservation laws, invariance principles, and symmetries in, 23:32778
constants and units in, relations among atomic and cosmological, 22:1506
constants in, secular changes in atomic, 22:36750
constants of, determination of fundamental, (T), 21:23003
constitutive equations in continuum relativistic, formulation of, 24:24200
developments in, 24:41313 (IJS-252)
developments in radiological, July 1967—June 1968, 24:31808(R) (ANL-7489)
developments in theoretical, 22:32035
experiments in, error-correcting data link between acquisition and analysis computers for, 22:28210 (UCRL-17999)
experiments in, statistical methods in design of, 23:7071
exponential operators and parameter differentiation in quantum, 21:33634
formalism for justification of ensembles in quantum statistical mechanics, 25:3238
formalism for justification of ensembles in quantum statistical mechanics, 25:3237
fundamental constants in, review of research on, 23:20721
graph theory and statistical, 24:26858 (BNL-14629)
Green's function application in, 22:24501
harmonic oscillator in, properties of, 23:18762
information retrieval system, status and plans for AIP, 22:7943 (IARD-67-1)
Landau papers on, collection of, 22:15504
lecture notes on reactor, 21:35719 (KR-117)
lectures on mathematics and theoretical, Madras, India, 1966, 23:16908
length for, Lie triple algebras for elementary, 24:6697
length in, Cherenkov and scintillation counter study of meson (π^-) lifetime for upper limit of fundamental, (E), 24:3547
length in, electron and meson (μ) arrival times in EAS at 10^{12} to 10^{15} eV for upper limit for fundamental, (E), 24:10835
measurement of e/h, 23:20722
measurements in macro- and micro-, analysis of, 22:24495
measurements in, treatment of uncertainties in, 23:21033
measurements, units of, 22:31135
model of cooperativity in statistical mechanics, phenomenological, (T), 24:49280
nonequilibrium statistical, review of, 23:16913
partial derivative equations of mathematical, 24:16339(T) (BNL-tr-313)
phase—space integrals and distributions in, methods for calculating, 23:30687
plutonium technology in, 22:35726 (BNWL-672)
radiation, of electron beam therapy, conference on, 23:6526
radioisotope uses in, conference on, 22:28011 (CONF-660503)
research, 21:27282(R) (MIT-2098-299)
research and development at IAEA, 1968, 23:43248 (STI/DOC-10/98)
research and development, hearings on AEC authorizing legislation for fiscal 1970, 24:2089
research at AECL laboratories, 22:44967
research at Ames Lab., July 1968 to June 1969, 24:18097 (IS-2100, Sect. P)
research at ANL, 21:15813(R) (ANL-7029)
research at ANL Jan. through March 1970, 25:10015(R) (ANL-7699)
research at ANL Oct. through Dec. 1969, 25:9971(R) (ANL-7698)
research at Argonne National Laboratory during April through December 1968, 24:3915(R) (ANL-7512)
research at Argonne National Laboratory during January through March 1969, 24:3916(R) (ANL-7570)
research at Argonne, Jan.—Mar. 1967, 21:35406(R) (ANL-7312)
research at Atomic Energy of Canada Ltd., July 1 through Sept. 30, 1970, 25:38968 (AECL-3742)
research at Brookhaven National Laboratory, fiscal 1968, review on, 23:9274(R) (BNL-50106)
research at Cekmece Nuclear Research Center, July—Dec. 1967, 23:35544(R) (CNAEM-48)
research at Chalk River January 1 to March 31, 1971, 25:56733(R) (AECL-3912)
research at Chalk River Nuclear Laboratories, April 1, 1969 to June 30, 1969, 24:1774(R) (AECL-3417)
research at Chalk River October 1 to December 31, 1970, 25:53729(R) (AECL-3865)
research at Chalk River, July 1 to Sept. 30, 1968, 23:10905(R) (AECL-3166)
research at Hebrew Univ. of Jerusalem, 1965-66, 22:6210(R) (NP-17097)
research at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
research at Israel AEC, Jan.—Dec. 1967, 22:48806(R) (IA-1168)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at LRL Berkeley, 1967, 23:39592(R) (TID-25098)
research at LRL, Berkeley, 1966, 23:36817(R) (TID-25097)
research at National Physical Laboratory, 1966, 21:34389
research at NIRS during fiscal 1968, summary of, 24:39412(R) (NIRS-8)
research at Puerto Rico Nuclear Center, 1967, 22:48807(R) (PRNC-121)
research at Rutherford Lab. in 1968, 23:30689(R) (RHEL/R-180)
research at Saha Inst., summary of, 24:22145(R) (NP-18141)
research at Studsvik, Sweden in, 22:33399
research at University College, London, 1965-66, 21:34975 (NP-16781)
research at University College, London, summaries of theoretical, 21:34976 (NP-16781, 55-67)
research by Danish Atomic Energy Commission, 1967-1968, 23:13604(R) (NP-17754)
research in, 22:14416
research in experimental, collection of articles on, 21:28311(T) (AD-645794)
research in low- and medium-energy, summaries of, 21:46184 (TID-4005(Pts.3 and 4)(2nd Ed.))
research in plasma, in Sweden, 22:14468
research in radiation, at Case Western Reserve during 1969-1970, 24:41755(R) (COO-78-220)
research in radiological, at Columbia University, report on, 22:49325(R) (NYO-2740-5)
research in theoretical, review of Italian, 21:5385
research in Turkey, Jan. 1-June 30, 1967, 23:32949(R) (CNAEM-46)
research in, centers for, 21:29850
research in, federal funding of, 25:50276
research in, use of on-line computers for, 21:16251
research on military applications of, 1967 summary of French, 23:4499 (NP-17597, pp 83-95)
research on, IAEA sponsored, 24:39470 (STI/DOC-10/105)
research on, in Japan, index of papers in Busseiron—Kenkyu (1943 to 1962) on, 21:12385 (UCRL-14288)
research program at Ames Laboratory, July 1, 1967 to June 30, 1968, 23:2155(R) (IS-1900)
research program in, 21:19527(R) (UCRL-50001-66-1)
research program, AEC, 21:21938
research programs at Juelich on, 21:14127(R) (NP-16420)
research programs at M.I.T. Electronics Lab, 21:2191(R) (TID-23318)
research progress in, AEC, 25:26205
research progress in, at Aktiebolaget Atomenergi, Sweden, 25:24937(R) (AE-410)
research progress on chemical, 22:42653(R) (NP-17448)
research progress on theoretical phonon, 25:31711(R) (NYO-3699-53)
research progress on, April 1, 1969 to March 31, 1970, 25:38969(R) (ANL-7728)
research report from Ames Laboratory July 1, 1966—June 30, 1967, 21:42845(R) (IS-1600)
research using thermal reactor neutron beams, review of, 21:17278
review of developments during 1969, 24:8319
statistical mechanics and magnetism, 23:46415 (AD-685604)

statistical mechanics in, canonical transformations in, 23:18958 (ITF-68-29)
statistical mechanics of relativistic magnetic anomaly, 22:9493
superstable interactions in classical statistical mechanics, (T), 24:49290
symmetry number in classical statistical mechanics, 24:45399
theories in, unification of, 23:12994
theories of, differential geometry in, 21:7399
theory for, development and relation to other sciences, 21:31549
time symmetry in, statistical, 21:41741

PHYSIOLOGY
see also Biochemistry
see also Excretion
see also Metabolism
see also Reproduction
see also Respiration
animal, effects of space flight environment on, 23:6345(T) (JPRS-45798)
bibliography on use of tritium-labeled water in plant, 21:24340
book: Clinical Cardiopulmonary Physiology, 24:34382
book: Compartments, Pools, and Spaces in Medical Physiology, 22:6832 (CONF-661010)
book: Photophysiology. Current Topics in Photobiology and Photochemistry, 25:21805
book: Proceedings of Iowa Academy of Science for 1969, 24:39561
conference on tracer studies of plant, 21:41316 (STI/PUB-137)
deuterium effects on, of animals, microorganisms, and plants, review of, 21:41504
effects on ontogenetic adaptation among mammals, 23:4489(T) (ANL-Trans-569)
radiation effects on sleep, in monkeys, mixed γ and neutron, 23:29727 (AD-675041)
radiation effects on, chronic x, 22:51902
radiation effects on, microelectrical studies of, 21:10748
radiation effects on, of microorganisms, review of ionizing, 23:22253
radioisotope uses in plant, review on, 25:46671
report on research in, at Argonne Cancer Research Hospital, 23:35813(R) (ACRH-31)
research at CRNL in Canada during 1969, 24:41754 (AECL-3430, pp 5-18)
research at NIRS during fiscal 1968, summary of, 24:39428 (NIRS-8, pp 19-52)
research in cellular and whole animal, at Chalk River, Ontario, 23:35723(R) (AECL-3199)
research on cellular and animal, at Chalk River National Laboratory April 1—June 30, 1968, 22:51556 (AECL-3158)
research programs of Federal Health Office in Germany, 25:21675(R) (NP-18630)
research programs of Federal Health Office of Germany, 25:21676(R) (NP-18631)
tracer studies of plant, 21:20425 (STI/DOC-10/66)
use of tracer techniques for analysis of animal, IAEA program of, 22:6248

PHYSOSTIGMINE
effects on polarity of muscle cell membranes, combined effects of acetylcholine, cesium ions, and potassium ions on, 21:45495(R) (AD-629215)
sulfate, radiolysis of aqueous solutions of, effects of acidity and sodium pyrosulfite on γ, 23:19783
sulfate, thermal decomposition of aqueous solutions of, effects of acidity and sodium pyrosulfite on, 23:19783

PHYTIC ACID
alkali metal and alkaline earth salts of, sorptive properties for strontium-90 from milk, 25:2346(P)
effects on excretion of calcium-45 or strontium-90 in feces of rats, 23:35708
effects on retention of strontium-85 in mice and rats, 23:24545
radioprotective effects of, in rats, optimal amounts for strontium-90 β, 23:12172
sodium salt, effects of dietary, on strontium-90 metabolism in rats, 25:23975(T) (AEC-tr-7195, pp 236-40)
strontium-90 salt of, metabolism by rats, comparison with other forms of strontium, 23:22180(T) (AEC-tr-6944, pp 641-50)

PHYTIN
effects of dietary, on strontium-90 metabolism in animals and man, review on, 25:23972(T) (AEC-tr-7195, pp 209-19)
effects of dietary, on strontium-90 metabolism in rats, 25:23975(T) (AEC-tr-7195, pp 236-40)
precipitation of niobium, tantalum, thorium, tin, titanium, and zirconium from boiling acid solutions by, 22:33319
uptake from soil by rye-grass plants, evaluation of methods for preparation of phosphorus-32-labeled phytin for tracer studies of, 24:5976
use in analysis of iron and steels, 22:33319

PHYTOCHROMES
action on photomorphogenesis in plant leaves, 21:1837(R) (NYO-2587-21)
identification of chromophore species in plant, use of absorption spectra for, 22:43207(R) (NYO-2373-3(App.))
radiation effects on absorption spectra of plant, effects of wave length on monochromatic light, 22:43207(R) (NYO-2373-3(App.))
radiation effects on, of peas, x, 24:11966

PHYTOHEMAGGLUTININ
analysis for carbohydrates, use of gas-liquid chromatography for quantitative, 23:7932(R) (RLO-581-26)
effects of, on development of lymphocytes, 21:12786
effects of, on marrow regeneration in x-irradiated rodents, 21:6592
effects of, on transformation of lymphocytes in guinea pigs into pyrinophilic blast cells, 21:11002 (BNL-10722)
effects on abundance of antibody plaque-forming cells in spleen of mice, 22:38223
effects on adsorption of labeled RNA by lymphoid cells, 21:16262 (USNRDL-TR-1080)
effects on antibody-forming cells and macrophages, use of irradiated mice for study of, 24:36714
effects on blastoid transformations and radioresistance in human lymphocytes, effects of prednisolone on, 21:22309
effects on cell division in lymphocyte cultures, 22:14906 (BNL-50057, pp 123-37)
effects on count of cultured x-irradiated human leukocytes dose-dependency of, 24:6102
effects on count of eosinophils in irradiated lymphocyte cultures, 24:21272
effects on cytotoxicity of human lymphoid cells, 24:820
effects on development of virus-induced leukemia, 25:52008(R) (RLO-2226-T-1-7)
effects on DNA synthesis in irradiated cultured human lymphocytes, 24:7737
effects on DNA synthesis in irradiated rat lymphocytes as indicator of dose, in vitro, 25:42404
effects on DNA synthesis in x-irradiated human lymphocytes, 25:46950
effects on electrophoretic mobility of x-irradiated human lymphocytes, 25:55310
effects on frequency of x-radioinduced aberrations of chromosomes in cultured human leukocytes, comparison of antigen with, 22:28433
effects on genetics of lymph node cells of mice, 22:36170
effects on growth and differentiation of bone marrow cells in γ-irradiated mice, 23:48003
effects on human leukocytes, effects of deuterium oxide on biochemical and immune, 23:41200(R) (RLO-581-32)
effects on human lymphocytes in relation to RNA metabolism, 22:28629 (ORNL-4100, pp 104-9)
effects on immune reactions in mice, 23:7932(R) (RLO-581-26)
effects on incidence of chromosome aberrations in x-irradiated cultured lymphocytes, 23:35693
effects on irradiated lymphocytes from infant and adult man, 25:42602
effects on leukocyte count in x-irradiated, 23:31827
effects on leukocytes in irradiated human blood, 25:11299
effects on lymphatic leukemia patients following splenic irradiation, 21:10936
effects on lymphocyte count in leukemia patients, 24:4660
effects on lymphocyte cultures from leukemic cattle, 23:24720(R) (COO-910-15)
effects on lymphocyte transformation, effects of deuterium oxide on DNA and RNA synthesis following, 23:7932(R) (RLO-581-26)
effects on lymphocytes in guinea pigs, 21:22477 (BNL-994, pp 124-39)
effects on membrane interaction of x-irradiated lymphocytes, 23:38453 (ACRH-1000-137)
effects on mouse sarcoma cells, 21:26583
effects on nucleic acid synthesis in lymphocytes of man, 21:32736(R) (EUR-3455.d)
effects on protein synthesis in lymphocytes, 21:47031(R) (RLO-581-22)
effects on radioinduced synthesis of DNA in human lymphocytes, electron, x, 23:41246
effects on radiosensitivity of chromosomes in human blood cells, 22:25804
effects on radiosensitivity of hepatoma ascite cells, 22:33942
effects on radiosensitivity of liver cells in rats following focal or whole-body exposure, 23:38782
effects on recovery of DNA synthesis in x-irradiated cultured human lymphocytes, 23:31649
effects on sensitization of rat lymphocytes to x-irradiated fibroblast cultures from mice, 23:38510
effects on spleen-colony-forming capacity of mouse lymph node and blood cells, 21:6624
effects on survival and transformation to cell division in uv-irradiated lymphocytes, 23:776(R) (UCLA-34-P-118-4)
effects on survival of x-irradiated cultured lymphocytes from normal man and patients with Hodgkin's disease, 22:28333
effects on synthesis of globulins in human lymphocytes, 24:9735
effects on synthesis of immunoglobulin by lymphocytes in vitro, radioimmunoelectrophoretic studies of, 23:35589
effects on therapeutic effectiveness of intravenously injected lymphocytes and thymocytes in lethally x-irradiated mice, 25:24305
effects on transformation of leukocytes from patients with atoxia telangiectasia, 23:7932(R) (RLO-581-26)
effects on transformation of lymphocytes following treatment with D_2O and x radiation, 25:52008(R) (RLO-2226-T-1-7)
effects on transformation of lymphocytes, fluorescence analysis for mechanisms of, 23:7932(R) (RLO-581-26)
effects on transformation of x-irradiated rat lymphocytes in vitro, effects of serum from irradiated rats on, 24:27657
effects on ultrastructure of antibody-producing cells in mice, 25:37739 (RLO-2226-T-3-4)
effects on x radiosensitivity of lymphocytes, 25:26903
effects on x-irradiated lymphocytes, 25:52178(R) (RLO-2226-T-1-6)
effects on x-radioprotective effects of thymus cells injected into mice, 23:10008
effects on x-radiosensitivity of cultured human lymphocytes, 25:13472
effects on x-radiosensitivity of mitosis in lymphocyte cultures, 22:16996
effects on x-radiosensitivity of reproduction of leukocytes in cultures, 22:19292
mitogenic action of, studies on mechanism of, 25:52178(R) (RLO-2226-T-1-6)
mitogenicity of, effects of urea on, 21:47031(R) (RLO-581-22)
molecular structure of, 21:47031(R) (RLO-581-22)
molecular structure of, 25:52008(R) (RLO-2226-T-1-7)
molecular structure of, effects of proteolytic enzymes on, 25:52178(R) (RLO-2226-T-1-6)
molecular weight and specific volume of, in Phaseolus vulgaris, 23:41200(R) (RLO-581-32)
preparation of subunits of concanavalin A, 25:37857 (ANL-7770, pp 76-100)
purification of, method for, 23:7932(R) (RLO-581-26)
radiation effects on immune reactions to, in chickens, combined effects of bursectomy or thymectomy on, 23:8067
radiation effects on response of cultured human lymphocytes to, x, 22:43200 (AD-664651)
radiation effects on response of, in rat bone marrow, lymph node, and spleen cells, effects of thymus gland on x, 25:26673
radiation effects on stimulation of cell division by, x, 22:14929
radioprotective effects of, against cellular damage in x-irradiated E. coli, 21:6732
radioprotective effects of, in mice following intraperitoneal injection, dose reduction factor for x, 24:44532
radioprotective effects of, on content of transplantable colony forming unit in bone marrow of mice, x, 22:10796
radioprotective effects of, on human bone marrow, x, 21:28540
radioprotective effects of, on man, mice, and rats, 23:48083
radioprotective effects of, on mice, x, 24:25506
radioprotective effects on human bone marrow, x, 21:28540
response of lymphocytes to, as indicator of x radiation effects on immune competence, 25:37741
separation of subunits of, chromatographic, electrophoretic, and gel filtration methods for, 23:7932(R) (RLO-581-26)
stability of mitogenicity of, in storage, effects of temperature and time on, 23:7932(R) (RLO-581-26)
structure of, effects of ionic strength and pH on, 23:7932(R) (RLO-581-26)
toxicity of, in x-irradiated rodents, 21:6592
transformation of erythrocytes by, effects of erythropoietin on, 23:7932(R) (RLO-581-26)
transformation of lymphocytes by, blood serum requirements for, 23:7932(R) (RLO-581-26)
use for estimating lymphocyte count in thymectomized mice following x irradiation, 25:49295
use for study of fast neutron-radioinduced aberrations of chromosomes in cultured human lymphocytes, 22:28431
use for study of x-radioinduced aberrations of chromosomes in cultured human leukocytes, 22:28430
use for study of x-radioinduced aberrations of chromosomes in cultured human leukocytes, 22:28429
use of, in leukocyte cultures for chromosome studies, 21:14626

Phytomenadione
see under Vitamin K Group

Picket Fence (Cusp Thermonuclear Reactor)
see Thermonuclear Reactors

PICKERING POWER REACTOR, UNIT 1
(508 Mw(e))
completion schedule for, 25:53883 (70-CNA-630)
construction of, 24:43613
construction of multi-unit station with, description of, 22:30237
containment system for, description of negative-pressure, 22:32865
control system for, description of, 24:43617
control system for, description of digital computer, 24:11062 (AECL-3452)
control systems for, performance of digital computers in, 24:24692
core assembly of, description of, 22:35419 (AECL-3126)
core for, design and physics parameters of, 24:43616
core for, mechanical design of, 24:43615
cost estimates for, 24:43614
description and status of, 21:5595 (AECL-2486)
description of, 21:12202
description of 500 MW(e) multi-unit, with common containment system, 22:3809 (AECL-2941)
design parameters for, 22:22712 (STI/PUB-174)
design parameters of, 24:43614
economics of, 22:16106 (AECL-2795)
economics of multi-unit station with, description of, 22:30237
emergency cooling systems for, description of, 22:32852
fuel analysis for plutonium isotopic composition produced in, computer programs for, 21:1239 (AECL-2631)
fuel element assembly development for 42 W/cm operation in, 21:44813 (AECL-2949)
fuel elements for, design and performance of, 24:43618
fueling of, economics of, 22:12004 (AECL-2790)
fuels for, estimates of economics of, 25:3802
loading system for, description of on-power, 22:46921 (TID-24679(Vol.2))
loading system for, operation and performance of, 22:46920 (TID-24679(Vol.1))
neutron flux in, EPITHET computer program calculation of fast, 23:15618 (AECL-3167)
operation of, review of, 25:53928 (A/CONF.49/P-148)
power oscillations and control in, CEXE code analysis of xenon-induced spatial, 23:49554 (CEND-3932-2)
siting of, evaluation of Canadian policy toward, 22:50697 (AECL-3156)
siting of, evaluation of factors affecting, 23:43076
stability of, effects of xenon oscillations on, 24:16097
status during 1969—1970, summary of, 25:53879(R) (70-CNA-618)

PICKERING POWER REACTOR, UNIT 2 (508 Mw(e))
  completion schedule for, 25:53883 (70-CNA-630)
  construction of multi-unit station with, description of, 22:30237
  design parameters for, 22:22712 (STI/PUB-174)
  economics of multi-unit station with, description of, 22:30237
  emergency cooling systems for, description of, 22:32852
  fuels for, estimates of economics of, 25:3802
  status during 1969—1970, summary of, 25:53879(R) (70-CNA-618)
PICKLING
  see also Cleaning
  equipment and methods for metal surfaces, 23:38928(P)
PICOLINALDEHYDE
  complexes with molybdenum for use in photometric determination, 23:32
  complexes with uranium, preparation and characterization of, 21:34263
PICOLINE
  complexes with metal salts, radiation effects on, ESR study of free radicals from γ or electron pulse, 23:37982
  complexes with uranium pentachloride, preparation, properties, and structure of, 24:50368 (CONF-690916-(Vol.2), pp 279-82)
  complexes with uranyl nitrate, infrared spectra of, 22:14502
  deuterium exchange between heavy water and, on Group VIII metal catalysts, 22:50988
  effects of, on quenching of toluene scintillators, 21:4485 (EGG-1183-2111)
  mass spectra of, 22:42647(T) (AEC-tr-6937, pp 104-8)
  N-oxide, deuterium exchange reactions in alcoholic methylamine solutions of iodine methylates of, mechanism and rate constants for, 21:30415
  radiation effects on toluene solutions of, carbon-14 activity distribution in products of, 21:8333
  radiolysis in adamantane, ESR spectra of azabenzyl radicals from x, 25:31990
  reactions with deuterated and normal 2-nitropropane in presence of iodine, isotope effects and rates for, 21:23874
  spectra of, 22:8052
  picoline—pyridine, radiation effects on toluene solutions of, carbon-14 activity distribution in products of, 21:8333
2-PICOLINE
  complexes with uranium pentachloride, preparation, properties, and structure of, 24:50368 (CONF-690916-(Vol.2), pp 279-82)
  complexes with uranium(V) chloride, properties of, 25:29092
  complexes with uranyl nitrate, luminescence spectra of, 22:33304
  effects on extraction of copper or zinc by thenoyltrifluoroacetone, synergistic, 23:26342
  effects on γ-induced graft polymerization of acrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  effects on spectra of zinc complexes with 4-methyl-8-quinolinol and 8-quinolinol, solvent, 21:32139 (COO-676-1)
  formation constants for, adducts of zinc complexes with 2-methyl- and 4-methyl-8-quinolinol and 8-quinolinol in chloroform, 21:32139 (COO-676-1)
  properties as reagent in oscillopolarographic determination of palladium and rhodium in presence of other platinum metals, 23:28706
  radiation effects on, reactions in γ, 23:9478
  radiolysis in adamantane, ESR spectra of azabenzyl radicals from x, 25:31990
  reactions with acetic anhydride, effects of deuterium on, 22:27702
3-PICOLINE
  complexes with tetravalent thorium, preparation and properties of, 23:19725
  complexes with uranium(V) chloride, properties of, 25:29092
  effects on extraction of copper-64 or zinc-65 by thenoyltrifluoroacetone, synergistic, 23:26342
  radiation effects on, reactions in γ, 23:9478
  radiolysis in adamantane, ESR spectra of azabenzyl radicals from x, 25:31990
  fumaric acid—3-picoline 1-oxide, molecular structure of adduct of, 25:23441 (IS-T-439)
4-PICOLINE
  1-oxide, solvent properties for europium in aqueous salicylic acid solutions, 24:41402
  complexes with tetravalent thorium, preparation and properties of, 23:19725
  effects on extraction of copper-64 or zinc-65 by thenoyltrifluoroacetone, synergistic, 23:26342
  effects on γ-induced graft polymerization of acrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  effects on spectra of zinc complexes with 4-methyl-8-quinolinol and 8-quinolinol, solvent, 21:32139 (COO-676-1)
  formation constants for, adducts of zinc complexes with 2-methyl- and 4-methyl-8-quinolinol and 8-quinolinol in chloroform, 21:32139 (COO-676-1)
  properties as reagent in oscillopolarographic determination of osmium and rhodium in presence of palladium, 23:28706
  radiation effects on, reactions in γ, 23:9478
  radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428
  reactions with acetic anhydride, effects of deuterium on, 22:27702
2-PICOLINE, 6-PHENYL-
  reactions with acetic anhydride, effects of deuterium on, 22:27702
PICOLINE, VINYL-
  polymers, radiolysis of, ESR studies on reactions of gases with free radicals produced by, 22:37779(T) (ORNL-tr-1969)
  butadiene—vinylpicoline, polymers of, radiation effects on infrared, 22:14518(R) (ORO-2418-4)
2-PICOLINE, 5-VINYL-
  butadiene—5-vinyl-2-picoline, radiation effects on molecular structure of, ir spectral studies on mechanism of γ, 24:22671(R) (ORO-2418-7)
PICOLINIC ACID
  1-oxide, complexes with actinides, preparation and properties of, 25:20965 (KFK-1068)
  1-oxide, complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
  1-oxide, complexes with americium, neptunium, plutonium, and uranium, ir and NMR spectral and thermogravimetric studies on, 25:2194 (KFK-1070)
  1-oxide, complexes with neptunium, thorium, or uranium, preparation and stability of, 25:8237 (KFK-1210)
  complexes with actinides, preparation and properties of, 24:29263
  complexes with actinides, preparation and properties of, 25:20965 (KFK-1068)
  complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
  complexes with americium, neptunium, plutonium, and uranium, ir and NMR spectral and thermogravimetric studies on, 25:2194 (KFK-1070)
  complexes with molybdenum for use in photometric determination, 23:32
  complexes with neptunium, thorium, or uranium, preparation and stability of, 25:8237 (KFK-1210)
  complexes with plutonium, spectrophotometric study of, 23:9379
  complexes with rare earths, thermodynamic properties of, 22:21054 (ORO-1797-11, pp 1-113)
  hydrochloride, chlorine-36 exchange between gaseous hydrochloride and, kinetics of, 22:47146
  rare earth salts, formation constants of, 22:44951 (IS-T-242)
  reactions with 8-quinolinol and uranium, thermal decomposition and solubility of chelates from, 22:16513
  reactions with uranium, thermal decomposition and solubility of chelates from, 22:16513
PICOLINIC ACID, 1-(p-BROMOPHENYL)-1,4-DIHYDRO-5-HYDROXY-4-OXO-, ETHYL ESTER
  solvent properties for niobium and tantalum in oxalate solutions, effects of hydrochloric, hydrofluoric, oxalic, and sulfuric acids on, 24:5741
PICOLINIC ACID, 5-BUTYL-
  analysis of labeled, for nitrogen-15 by Dumas combustion and mass spectrometry, 23:26169
PICOLINIC ACID, 1,4-DIHYDRO-5-HYDROXY-4-OXO-1-PHENYL-, ETHYL ESTER
  solvent properties for niobium and tantalum in oxalate solutions, effects of hydrochloric, hydrofluoric, oxalic, and sulfuric acids on, 24:5741
PICOLINIC ACID, 1,4-DIHYDRO-5-HYDROXY-4-OXO-1-PHENYL-, METHYL ESTER
  solvent properties for niobium and tantalum in oxalate solutions, effects of hydrochloric, hydrofluoric, oxalic, and sulfuric acids on, 24:5741
PICOLINIC ACID, 1,4-DIHYDRO-5-HYDROXY-4-OXO-1-p-TOLYL-, ETHYL ESTER
  solvent properties for niobium and tantalum in oxalate solutions, effects of hydrochloric, hydrofluoric, oxalic, and sulfuric acids on, 24:5741
PICOLINIC ACID, 3-HYDROXY-
  complexes with rare earths, formation constants for, 23:35067
PICOLINIC ACID, 6-METHYL-
  complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
  complexes with plutonium and uranium, ir and NMR spectral and thermogravimetric studies on, 25:2194 (KFK-1070)
PICRATES
  structure of, theory and operation of Moessbauer spectrometer for micro-, 21:1559 (AD-634658)
PICRIC ACID
  radiolysis of aqueous solutions of, effects of hydrogen peroxide, pH, and temperature on γ, 24:33733
PICROTOXIN
  radiation effects on action of, in central nervous system of rabbits, 25:13561
Picrylhydrazyl, Diphenyl-
  see Hydrazyl, Diphenylpicryl-
Pieris
  see under Insecta
PIEZOELECTRIC CRYSTALS
  analysis of thin plate, Laplace transform, (T), 22:9426 (SC-RR-67-66)
  calibration of quartz, used as pressure gages for hydrogen bubble chambers, 22:40460 (DESY-68/30)
  development of bimorph, for coupling ultrasonic energy to air, 22:51276(R) (IDO-17269)
  electron reactions at 1 GeV with lead titanate zirconate, mechanical vibrations from, 23:35516
  lattice refrigeration of, below 10^{-3} °K, 25:45578
  neutron-diffraction analysis of, analogy to Moessbauer effect, (E/T), 23:12977
  performance for focusing x and γ radiation in spectrometers, 23:14029
  performance for measurements in bubble chambers, effects of high magnetic fields and low temperatures on, 25:34987 (CONF-700623-(Vol.2), pp 863-72)
  performance of ceramic, in spark chamber readout systems, effects of backing and matching on, 21:39216
  performance of multielectroded, sinusoidal steady-state, 21:27859 (SC-DC-67-1731)
  polarization direction of thin discs of, design of instrument for determining, 21:32065 (SC-DR-67-494)
  preparation of ceramic, containing antimony, iron, and niobium, 25:45117(P)
  radiation effects on acoustic generation of cadmium-sulfide films, 23:6336
  radiation effects on lithium niobate, 25:21521
  radiation effects on lithium niobate, gamma, 24:46552 (BNWL-1436)
  radiation effects on oscillation frequency of, γ, 21:25885
  readout system for, design of, 21:45345(R) (IDO-17234)
  response characteristics of, use of complex impedance admittance meter for determining, 21:45345(R) (IDO-17234)
  response of guard ring quartz, effect of electric field fringing around insulating gaps on, 23:21607 (SC-RR-69-55)
  signals across plates of, measurement for sodium technology, 21:35564(R) (APDA-193)
  surface waves on, analysis of, 25:11473(R) (AD-708712)
  testing of Pockels cell, methods for, 23:19617 (UCRL-50558)
  use in high-resolution pressure probe, (E), 21:24253
  use of lead titanate zirconate ceramic disk, for locating and discerning objects in liquid sodium, 22:4498 (APDA-210)
  use of lead zirconate titanate, in ultrasonic system for measuring thickness profile of fuel element coolant channel, 23:24493
  use of lead-titanate-zirconate, for ultrasonic post-irradiation dimension measurements of reactor fuel element coolant channels, 22:30899
  use of microphones utilizing, with pulse analyzers as data handling system for acoustic spark chamber, 21:39208
  use of quartz, for hf modulation of neutron beams, 21:36457
  use of thin, to measure thermal stress wave pressure in glass rods, (E/T), 21:32074 (UCRL-50252)
  vibrations in lead zirconate—titanate, irradiated by electrons at 0.2 to 1.0 GeV, 24:16939 (AD-695420)
PIEZOELECTRIC EFFECT
  measurements in shocked sucrose, 21:42863 (UCRL-70485)
Pigeons (Columba)
  see Columba under Aves
PIGMENTS
  see also Phytochromes
  abundance of, effects on laser-induced effects in human and rabbit skin, 21:9001
  age of art work, radiometric method for estimation of, 24:46334(R) (NYO-3953-2)
  analysis of, from ancient murals by neutron activation, 25:2133
  autoradiography in Araschnia levana prorsa using sulfur-35-labeled sodium sulfate, 24:27496
  composition in cultured marine algae, effects of light on, 22:42576(R) (NYO-3497-13)
  content of ascites tumor cells, effects of, on photooxidation of ascitic fluid, 22:25796
  content of chloroplast, in barley seedlings, effects of age and temperature on, 22:25801(R) (COO-332-2)
  content of chromolipoid, in lysosomes of rat thymus, 23:9882
  content of fungi in relation to γ-radiosensitivity, 23:43909
  content of hair of mice, effects of γ-irradiated RNA injections on, 22:25735
  development in insect eye, genetic control of, 21:2915 (BNL-976)
  dispersion in melanocytes of fish, combined effects of deuterium, pressure, and temperature on, 22:19273
  distribution of autofluorescent, in cerebral cortex of rats, 22:23592(R) (COO-1474-11)
  effects of, on effects of laser radiation on tissues, 21:8982
  effects of, on effects of lasers on skin, review of, 21:8954
  effects of, on uv radiosensitivity of human skin, review of, 21:14757
  effects on laser induced injuries in human eyes, 21:26570
  effects on laser radiation effects on tissues of bladder of dogs, determination of black ink, by histological examination, 21:22271
  effects on laser-induced lesions in eyes of humans and rabbits, 21:22679
  effects on laser-radiosensitivity of animal cells, 22:2541
  effects on laser-radiosensitivity of blood and skin, 23:9891
  effects on laser-radiosensitivity of blood cells and skin in guinea pigs and rabbits, 22:40823(T) (JPRS-44070, pp 10-18)
  effects on laser-radiosensitivity of cells, 22:12783
  effects on laser-radiosensitivity of eyes of man, 22:8620
  effects on laser-radiosensitivity of eyes of rabbits, 23:26907
  effects on laser-radiosensitivity of human eyes, 22:8621
  effects on laser-radiosensitivity of retina of eyes, 22:14962
  effects on laser-radiosensitivity of skin of hamsters, man, and rabbits, 22:12784
  effects on laser-radiosensitivity of skin of swine, pathological analysis of, 22:567
  effects on laser-sensitivity of man, rabbits, and swine, tattoo, 22:25989
  effects on photosensitivity of skin, 21:24607
  effects on severity of laser radiation effects on arthropods, 21:22760
  effects on survival of x-irradiated mice, bacterial, 21:22742
  effects on uv-radiosensitivity of cholesterol content of human skin, 22:51338
  effects on uv-radiosensitivity of growth in lettuce seedlings, phytochrome, 22:23679
  excretion of N-[β-(indolyl-3-acryl)]-glycine, in urine of patients with skin erythema induced by light, sun, or uv radiation, 21:22765
  extraction from Cyanophycene algae, decolaration by, 25:57236(T) (LA-tr-71-73)

  fluorescence properties of phycoerythrin, effects of protein structure integrity on chromophore migration in relation to, 22:43205(R) (COO-894-30)
  formation of, in denuded human skin treated with perfume and uv irradiation, 21:13056
  isolation and identification of purpurogenone, from Penicillum purpurogenum, 22:23678
  kinetics of excitation transfer in, of photosynthetic bacteria, 22:53501(R) (NYO-3759-5)
  labeling of bile, with tritium, 22:28273 (ANL-7278, pp 219-49)
  laser energy absorption by, in dermal melanomas and nevi, 21:18132
  molybdenum-99 decay in molybdenum blue, formation of technetium-99m in, 24:22666 (CEA-R-3933)
  properties of vision, photochemical and spectroscopic, 25:2032(R) (ORO-3736-4)
  radiation absorption by, of mammalian eyes, laser, 21:26569
  radiation effects on content of, in hair of mice, effects of dose and dose fractionation on x, 25:21886
  radiation effects on content of, in hair of mice, x, 22:49506
  radiation effects on content of, in hair of swine, fast neutron, 22:38427(R) (ORO-659)
  radiation effects on content of, in lichens, effects of dose on γ, 25:16374(R) (COO-2085-1)
  radiation effects on dermal tattoo, in man, laser, 22:10691
  radiation effects on eye, of Drosophila melanogaster, genetic analysis of x, 21:20156
  radiation effects on formation of, effects of intensity and time on uv, 22:40714
  radiation effects on melanogenesis in, of potto skin, uv, 21:430
  radiation effects on photochemistry of, in plants, uv, 21:20436
  radiation effects on production of, by ornamental plants, fast neutron, 21:36759
  radiation effects on production of, by Penicillium purpurogenum, uv, 22:23678
  radiation effects on production of, in integument of salmonid fish, β, 21:36744
  radiation effects on production of, in peaches, combined effects of temperature on, γ, 22:23695(R) (UCD-34-P-80-5)
  radiation effects on production of, in Pseudomonas aerugenosa bacteria, laser, 21:18189
  radiation effects on production of, in variegated Arabidopsis, stability of x, 22:6787
  radiation effects on tattoo, in human skin, laser, 22:47604
  radiation effects on tattoo, in human skin, vaporizing laser, 23:29836
  radiation effects on, in Euphorbia herbs, x, 21:13060
  radiation effects on, in eyes of dogs, laser, 22:15075
  radiation effects on, in human skin, action spectra of uv, 21:26580
  radiation effects on, in mice hair, dose fractionation studies of x, 24:32184
  radiation effects on, of hamster liver, x, 21:20394
  radiation effects on, of melanomas, laser, 22:38421 (CONF-660573-, pp 35-48)
  radioinduced changes in, of beef, 21:41529
  radioinduced changes in, of beef, during storage following processing, γ, 22:23703
  radioinduced migration of, in eyes of monkeys, histological determinations of laser, 21:22683
  radioinduced migration of, in eyes of rabbits, histological determinations of laser, 21:22676
  radioinduced mutations for, in Mycobacterium phlei, characterization of uv, 22:40623
  radioinduced production of molybdenum blue, by reduction of molybdate by formic aldehyde, 24:22666 (CEA-R-3933)
  radioinduced, in human skin, relation of phase of hair growth on, 21:3422
  radioinduction of purple, in Serratia marcescens, uv, 21:16540
  radioprotective effects of pulcherrimin, on Micrococcus violagabriellae, γ, 23:18080
  radioprotective effects of solutions of fungal, uv, 24:4698
  radiosensitivity of plant, 25:4467
  role in uv-radioinduced delay in germination of Aspergillus, 24:48742
  spectra of retinal, in man, monkeys, and rabbits in relation to laser-radiosensitivity of eyes, absorpton, 22:51922
PIKAS
  radiation effects on behavior of, effects of social stress on γ, 24:21096(R) (COO-1156-35)
  radiation effects on reproduction and survival of, in Colorado, γ, 25:21616 (COO-1156-40, pp 17-30)
  radiation effects on survival of captive or wild, LD/sub50/30/ for cobalt-60 γ, 24:32179 (COO-1156-32)
  radiation effects on survival of, in captive and natural habitat, comparison of γ, 25:6797
  radiation injuries to Colorado, determination of LD 50/30 for, 23:20142(R) (COO-1156-30)
PIKETON AREA (OHIO)
  radiation monitoring during 1969, 25:11001
  radiation monitoring in atmosphere and water during 1969 and 1970, α, β, and γ, 25:6697 (GAT-628)
  radiation monitoring in, Jan. through June 1968, 23:434 (GAT-574)
  radiation monitoring of, July through Dec. 1968, 24:31511
Piledriver Event
    see Nuclear Explosions, Underground
Piles
    see Reactors
PILGRIM POWER REACTOR
  accident analyses for, definition of strain limit criteria for, 22:50715 (DOCKET-50293-13)
  accident and safety analyses for, 22:50718 (DOCKET-50293-16)
  accidents at, radiation dose effects of postulated, 22:50709 (DOCKET-50293-5)
  accidents in, emergency plan for, 25:23174 (DOCKET-50293-40)
  accidents in, radiation hazards for, 24:33208 (DOCKET-50293-26)
  ACRS report on, 22:50708 (DOCKET-50293-4)
  auxiliary power system for, design parameters of, 24:33208 (DOCKET-50293-26)
  buildings at, tornado design criteria for, 23:17157 (DOCKET-50293-18)
  buildings for, final safety analysis of, 24:11094 (DOCKET-50293-22)
  buildings for, loading combinations and stress limits for, 22:50711 (DOCKET-50293-8)
  buildings for, preliminary safety analysis of, 22:50718 (DOCKET-50293-16)
  buildings for, stress requirements for, 24:33208 (DOCKET-50293-26)
  containment system for, analysis of effects of tornado loadings on secondary, 22:50712 (DOCKET-50293-10)
  containment system for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  containment system for, fission product retention capability of, 22:50718 (DOCKET-50293-16)
  containment systems for, final safety analysis of, 24:9019 (DOCKET-50293-20)
  containment systems for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  control rod drive systems for, description and analysis of, 22:50718 (DOCKET-50293-16)
  control systems and instrumentation for, final safety analysis of, 24:9020 (DOCKET-50293-21)
  control systems and instrumentation for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  control systems for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  coolant injection system for, control system logic for low pressure, 22:50709 (DOCKET-50293-5)
  coolant injection system for, design of low pressure, 22:50715 (DOCKET-50293-13)
  coolant loss and earthquake effects on, preliminary safety analysis of simultaneous, 22:50709 (DOCKET-50293-5)
  cooling system for, brittle fracture prevention of ferritic steel components in, 23:17157 (DOCKET-50293-18)
  cooling system for, final safety analysis of design for, 24:9019 (DOCKET-50293-20)
  cooling systems for, preliminary safety analysis of design of, 22:50717 (DOCKET-50293-15)
  core for, final safety analysis of design for, 24:9019 (DOCKET-50293-20)
  core for, preliminary safety analysis of design of, 22:50717 (DOCKET-50293-15)
  core for, test program for spray cooling system for, 22:50718 (DOCKET-50293-16)
  design drawings for, complete engineering, 22:50719 (DOCKET-50293-17)
  design parameters of, additional data on, 25:48189 (DOCKET-50293-53)
  design parameters of, deficiencies in final safety analysis required, 24:50033 (DOCKET-50293-28)
  design parameters of, requested additional information on, 25:23175 (DOCKET-50293-41)
  design parameters of, requested additional information on, 25:23176 (DOCKET-50293-42)
  design parameters of, responses to ACRS comments on, 25:34288 (DOCKET-50293-49)
  design parameters of, revised and additional data on, 24:52836 (DOCKET-50293-31)
  design parameters of, revised and additional data on, 25:20651 (DOCKET-50293-36)
  design parameters of, revised and additional data on, 25:23179 (DOCKET-50293-45)
  design parameters of, revised and additional data on, 25:41337 (DOCKET-50293-50)
  design parameters of, revised and additional data on, 25:20654 (DOCKET-50293-39)
  design parameters of, revised and additional data on, 25:15307 (DOCKET-50293-35)
  design parameters of, revised and additional data on, 24:47772 (DOCKET-50293-27)
  design parameters of, revised and additional data on, 25:23178 (DOCKET-50293-44)
  effluents from, effects on environment of chemical, radioactive, and thermal, 24:50034 (DOCKET-50293-29)
  electrical power systems for, final safety analysis of, 24:9020 (DOCKET-50293-21)
  electrical systems for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  emergency and auxiliary systems for, final safety analysis of, 24:9020 (DOCKET-50293-21)
  emergency and auxiliary systems for, preliminary safety analysis of, 22:50718 (DOCKET-50293-16)
  emergency core cooling system for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  Emergency Core Cooling system for, predicted operation and performance of, 22:50709 (DOCKET-50293-5)
  emergency core cooling system for, requested information on performance of, 25:46204 (DOCKET-50293-52)
  Emergency Core Cooling Systems for, analysis of operation of, 22:50712 (DOCKET-50293-10)
  Emergency Core Cooling Systems for, design requirements for, 22:50715 (DOCKET-50293-13)
  engineered safeguards for, final safety analysis of, 24:9019 (DOCKET-50293-20)
  engineered safeguards for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  engineered safeguards for, safety analysis of, 24:33208 (DOCKET-50293-26)
  heat exchangers for, design analyses of residual heat removal system, 22:50712 (DOCKET-50293-10)
  inspection and testing programs for, 24:33208 (DOCKET-50293-26)
  inspection program for, in-service, 24:16040 (DOCKET-50293-25)
  instrumentation for, circuit diagrams of, 24:33208 (DOCKET-50293-26)
  instrumentation for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  operation of, complete set of charts for, 24:9022 (DOCKET-50293-24)
  operation of, notice of AEC consideration of license for, 25:28613 (DOCKET-50293-47)
  operation of, preliminary safety analysis of, 22:50718 (DOCKET-50293-16)
  operational analysis of, nuclear safety, 24:9021 (DOCKET-50293-23)
  operations aspects of, additional data on, 25:48189 (DOCKET-50293-53)
  operations aspects of, deficiencies in final safety analysis required, 24:50033 (DOCKET-50293-28)
  operations aspects of, requested additional information on, 25:23175 (DOCKET-50293-41)
  operations aspects of, requested additional information on, 25:23176 (DOCKET-50293-42)
  operations aspects of, responses to ACRS comments on, 25:34288 (DOCKET-50293-49)
  operations aspects of, revised and additional data on, 24:47772 (DOCKET-50293-27)
  operations aspects of, revised and additional data on, 24:52836 (DOCKET-50293-31)
  operations aspects of, revised and additional data on, 25:15307 (DOCKET-50293-35)
  operations aspects of, revised and additional data on, 25:20654 (DOCKET-50293-39)
  operations aspects of, revised and additional data on, 25:20651 (DOCKET-50293-36)
  operations aspects of, revised and additional data on, 25:23178 (DOCKET-50293-44)
  operations aspects of, revised and additional data on, 25:23179 (DOCKET-50293-45)
  operations aspects of, revised and additional data on, 25:41337 (DOCKET-50293-50)
  operators for, G.E. training program for, 22:50711 (DOCKET-50293-8)
  owners of financial statements of, 22:50716 (DOCKET-50293-14)
  owners of, financial operations and asset data on, 23:17158 (DOCKET-50293-19)
  personnel for, final safety analysis of, 24:11094 (DOCKET-50293-22)
  personnel for, qualifications of startup, 25:23174 (DOCKET-50293-40)
  piping systems for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  piping systems for, final safety analysis of, 24:11094 (DOCKET-50293-22)
  piping systems for, flow diagrams of, 24:33208 (DOCKET-50293-26)
  piping systems for, recommendations for codes for power, 25:12741 (DOCKET-50293-33)
  piping systems for, requirements of welds in, 25:20652 (DOCKET-50293-37)
  piping systems for, withdrawal of requests for information on weld reinforcement for, 25:28614 (DOCKET-50293-48)
  power conversion system for, final safety analysis of, 24:11094 (DOCKET-50293-22)
  pressure vessel for, safety analysis of, 24:52837 (DOCKET-50293-32)
  protection systems for, final safety analysis of, 25:15306 (DOCKET-50293-34)
  pumps for, development of jet, 22:50718 (DOCKET-50293-16)
  quality assurance procedures and standards for, revised and additional data on, 24:50035 (DOCKET-50293-30)
  quality assurance program for, 24:9021 (DOCKET-50293-23)
  quality control program for, outline of, 22:50711 (DOCKET-50293-8)
  radiation monitoring at, description of equipment for, 22:50712 (DOCKET-50293-10)
  radioactive waste and control systems for, final safety analysis of, 24:9020 (DOCKET-50293-21)
  radioactive waste control systems for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  regulatory action on, AEC, 22:44854
  regulatory action on, summary of USAEC, 23:9109
  research and development program for, 24:9021 (DOCKET-50293-23)
  research and development programs for, preliminary description of, 22:50709 (DOCKET-50293-5)
  residual heat removal system for, bases for evaluation of, 22:50709 (DOCKET-50293-5)
  safety evaluation of, Division of Reactor Licensing, 25:50991 (DOCKET-50293-54)
  safety evaluation of, USAEC Division of Reactor Licensing, 22:37430 (DOCKET-50293-1)
  safety report on, Advisory Committee of Reactor Safeguards, 25:28612 (DOCKET-50293-46)
  shielding for, final safety analysis of, 24:11094 (DOCKET-50293-22)
  site for, design criteria for tornado-resistant structures at, 24:9021 (DOCKET-50293-23)
  site for, effects of seabreezes at, 24:9021 (DOCKET-50293-23)
  site for, environmental radiation monitoring program for, 25:23174 (DOCKET-50293-40)
  site for, environmental radiation survey during April to June 1971, 25:59966 (DOCKET-50293-56)
  site for, environmental radiation survey during January to March 1971, 25:41338 (DOCKET-50293-51)
  site for, environmental radiation survey during September to December 1970, 25:23177 (DOCKET-50293-43)
  site for, environmental survey through August 1970, 25:20653 (DOCKET-50293-38)

  - site for, final safety analysis of, 24:9019 (DOCKET-50293-20)
  - site for, geological data for, 24:33208 (DOCKET-50293-26)
  - site for, hurricane and storm analyses for, 22:50711 (DOCKET-50293-8)
  - site for, preliminary safety analyses of, 22:50710 (DOCKET-50293-7)
  - site for, preliminary safety analysis of, 22:50717 (DOCKET-50293-15)
  - site for, seismic analyses for, 22:50714 (DOCKET-50293-12)
  - site for, seismologic and geologic analyses of, 22:50712 (DOCKET-50293-10)
  - site for, test data on soils at, 22:50713 (DOCKET-50293-11)
  - startup of, effects on regional power supply of delay in, 25:59956 (DOCKET-50271-63)
  - structures and equipment for, no-loss-of-function criteria for Class I, 22:50714 (DOCKET-50293-12)
  - technical specifications for, complete proposed, 24:16040 (DOCKET-50293-25)
- PILOCARPINE
  - effects on antibody formation in rabbits, combined effects of radiation on, 21:36693
  - effects on cesium-137 excretion in rats, combined effects of prussian blue and, 25:26583
  - effects on cesium-137 retention by rats, combined effects of Prussian blue and, 24:31831
  - effects on diffusion of rubidium-86 from isolated ciliary processes of rabbits, 24:7726
  - effects on excretion of plutonium-239 by rats, 25:57998 (NIRS-Pu-8)
  - effects on iodine-131 deposition in chicken egg, 21:34571
  - effects on iodine-131 secretion in respiratory tract of guinea pigs and rats, 22:431
  - effects on phagocytosis in dogs, 21:1776
  - effects on phagocytosis in mice and rabbits, combined effects of radiation on, 21:36693
  - effects on strontium-85 excretion in rats, 23:24543
  - effects on x radiosensitivity of bone marrow and reticulo-endothelial system in rats, 25:13567
  - nitrate, effects on iodine-131 and technetium-99m scanning of human salivary glands, 25:29579
  - use in quantitative radioisotope scanning of salivary glands and thyroid of man, 22:36332
- PIMELIC ACID
  - complexes with uranium, potentiometric studies on stability constants of, 24:16540
  - decarboxylation of, effects of carbon-14 on, 21:32163
  - deuterium exchange between heavy water and, 22:12327
  - lithium salts, radiolysis of, yields of tritium-labeled hydrocarbons and carbon oxides from neutron, 24:36299
  - radioinduced decarboxylation of, effects of carbon-13 on γ, 21:35995
  - radiolysis at low temperature, EPR studies on mechanism of free radical production from, 23:35217
- Pinacol
    - see 2,3-Butanediol, 2,3-Dimethyl-
- Pinacolone
    - see 2-Butanone, 3,3-Dimethyl-
- Pinacyanol Chloride
    - see 2,2'-Quinocarbocyanine Chloride, 1,1-Diethyl-
- PINCH DEVICES
  - boundary solutions for high β, of large aspect ratio, (T), 23:30576 (LA-4098)
  - cable cartridge design and development for Scyllac, 24:24039 (LA-4250, pp Cl.3.1-8)
  - cable development for Scyllac, low-inductance, 24:24038 (LA-4250, pp Cl.2.1-5)
  - capacitor bank for Juelich, safety problems in, 22:46109 (JUL-540-PP)
  - capacitor banks for turbulence heating experiment, design of, 22:46102 (IPP-4/50)
  - capacitor development for Scyllac, 24:24037 (LA-4250, pp Cl.1.1-6)
  - control circuits for 2.6-MJ theta, design of, 22:3003 (IPP-1/71)
  - current decay in toroidal screw, longitudinal, (E), 25:38456 (CONF-710607-15)
  - current density at slot edges of, surface, (T), 25:30601
  - data acquisition system for Scyllac, 21:39974 (LA-3713)
  - data acquisition system for Scyllac, 24:24032 (LA-4250, pp B3.1-7)
  - description and operation of high-temperature low-magnetic-field theta, 22:24258
  - design and construction of PIACE, for injection and adiabatic compression, 25:30587 (EUR-4593, pp 431-41)
  - design and economic aspects of Scyllac, report of Ad Hoc Panel on, 21:27114 (TID-23705)
  - design and operation of conical, (E), 21:23215 (SC-RR-67-108)
  - design and operation of Isar I, 22:52731 (IPP-4/65)
  - design and operation of long cusp, 22:1140 (LA-3770, Paper G4)
  - design and performance of 500-kJ double-fed linear theta-pinch ISAR II, 22:46105 (IPP-4/58)
  - design and performance of explosive-driven theta, 21:39975 (SC-DC-67-2040)
  - design and performance of inverse, (E/T), 23:36728 (SC-RR-69-441)
  - design and performance of low-energy theta, 22:1251 (LA-3770, Paper D4)
  - design modification of linear, for production of intense, relativistic, self-focusing electron beams, 22:15913
  - design of 100 kV, for shock wave studies, 21:9592
  - design of 100-kJ fast theta, 24:17980
  - design of 15-meter theta-pinch Scyllac, 22:46110 (LA-DC-9507)
  - design of 500-kV theta, 25:7411 (IPP-4/68)
  - design of Columba, for high-temperature z-pinch plasma, 22:1249 (LA-3770, Paper G3)
  - design of explosive driven theta, (E), 23:20930 (SC-RR-69-51)
  - design of hard-core theta, 22:46108 (JUL-538-PP)
  - design of rotating field, numerical computation for, 24:40120 (LRP-44/70)
  - design of Scyllac, 24:24069 (LA-4250, pp F1.1-10)
  - design of Scyllac, 25:30564 (EUR-4593, pp 227-39)
  - design of Scyllac 5-meter toroidal sector, equilibrium configuration for, 25:19725 (LA-4597)
  - design of Scyllac, engineering aspects of, 21:25103 (LA-DC-8086)
  - design of shock-heated toroidal z, 24:42714 (LA-4352)
  - design of theta-, for shock-wave studies in nitrogen, 25:14350 (AD-711003)
  - design of toroidal ISAR I, 25:30585 (EUR-4593, pp 419-24)
  - design of transformer-coupled fast theta-, with variable rise time, 25:30577 (EUR-4593, pp 355-63)
  - design of ultra-fast theta, 22:3010
  - design of, for production and confinement of plasma, 21:18635(P)
  - development of, 22:5302(R) (JUL-494-PP)
  - development of 15-meter Scyllac, 22:1131 (LA-3770, Paper G1)
  - development of Chalice, research during 1966, 22:9274 (SIT-2582-25)
  - development of Chalice, review of, 22:9275 (SIT-2582-26)
  - development of continuous flow Z, (E/T), 23:14739(R) (LA-4075)
  - development of fast Z, (E/T), 23:14739(R) (LA-4075)
  - development of Pharos, technological problems from addition of hard core, 24:24035 (LA-4250, pp B7.1-6)
  - development of Scylla-III, -IV, Scyllac, and Scyllacita, 11/65-10/66, 21:9523(R) (LA-3628)
  - development of Scyllac, 22:11404(R) (LA-3831)
  - electric discharge formation in noncylindrical Z, (E/T), 22:46172
  - electrode mechanical properties in high-temperature plasmas, 21:27162
  - electrode spark gap development for Scylla, three, (E), 23:14739(R) (LA-4075)
  - electron acceleration mechanisms for theta, (E), 25:1164
  - electron beam equilibrium in toroidal, relativistic, (T), 25:33323
  - electron density and magnetic field measurement in theta-, using Faraday rotation of laser beams, (E), 25:49873 (IPP-1/116)
  - electron density in ISAR I, interferometric measurements of, 21:37416 (IPP-1/64)
  - electron density measurement in Z, optical resonator for, 24:23956
  - electron heating by large-amplitude oscillations in theta-, (E), 25:30467
  - Faraday rotation measurements in Scylla IV, 22:1155 (LA-3770, Paper A3)
  - Faraday rotation measurements in Scylla IV, 22:31842
  - Faraday rotation measurements in Scylla IV, 22:11404(R) (LA-3831)
  - feasibility of pulsed theta, high-β, 25:25156
  - feasibility of pulsed toroidal, 25:25157
  - hydrogen injection into superconducting levitron, properties of, (E), 22:19972 (UCID-15295)
  - hydromagnetic equilibrium of thin-skin, finite-beta toroidal, 22:13512 (LA-3778)
  - inertial effects in linear-z, (T), 21:11597(T) (SC-T-66-0771)
  - ion detection in low-pressure linear, highly ionized, (E), 25:27678 (WASH-1159, pp 172-83)
  - ion energy analysis from linear theta, using multichannel analyzers, (E), 24:5161 (IPP-1/98)
  - ion energy distribution in fast theta, spectroscopic measurement of, (E), 23:32347 (IPP-1/93)
  - ion energy distribution in strong collisionless compression wave, (E), 23:46464
  - ion energy distribution measurements in conical theta-, effect of analyzing slit dimension on, 25:52784
  - ion energy measurements in theta, 24:23958
  - ion energy of deuterium plasma in Isar I, determination from neutron yield, (E), 23:23081 (IPP-1/90)
  - ion heating in fast theta, deuterium, 23:6971 (IPP-1/87)
  - ion heating in high-voltage, (E), 25:38385 (CONF-710607-124)
  - ion heating in very fast theta, (E), 23:23069
  - ion temperature in Isar III theta, by laser forward scattering, (E), 22:41560
  - ion temperature measurement in Isar III theta-, by laser forward scattering, (E), 22:44085 (IPP-1/78)
  - lead design for minimum field distortion in theta, 22:13426 (67-C-252)
  - magnet coil performance for Levitron, superconducting, (E), 23:27653 (UCRL-71535)
  - magnet coils for Scyllac, modeling of stabilization, 22:11404(R) (LA-3831)
  - magnetic energy storage system for, pulsed cryogenic, 23:34461 (LA-4195)
  - magnetic equilibrium in fast theta, (T), 23:32453
  - magnetic field analysis in rotating, apparatus for, 22:13451 (LRP-35/67)
  - magnetic field calculations for fringe fields of, vacuum, (T), 25:30601
  - magnetic field disturbances in coil of theta, hf analog model for measuring, 22:46101 (IPP-1/80)
  - magnetic field in Levitron, analysis of superconducting current ring stabilized by feedback and eddy currents in, (E/T), 24:45280
  - magnetic field measurement with peaking strip in theta, zero, 22:39099
  - magnetic field measurements in theta, hf analog model for, 23:39500
  - magnetic field reversal in theta, spontaneous, (T), 24:51722
  - magnetic field symmetry in corrugated theta, inductive lenses for, (E), 23:32485 (IPP-1/89)
  - magnetic field symmetry in corrugated theta-, inductive lenses for, (E/T), 24:3410
  - magnetic fields for theta, elimination of symmetries in, 21:18619 (IPP-1/57)
  - magnetic force from helical fields on linear theta-, effects on plasma confinement, (E), 25:49930
  - magnetic reverse field configurations in linear theta, trapped, 22:1181 (LA-3770, Paper A4)
  - mass pickup in low-energy theta, measurement of, 22:1188 (LA-3770, Paper D6)
  - microwave radiations from plasma in, growth of azimuthal current in, (E), 24:10526(T) (AEC-tr-7112)
  - microwave scattering on turbulent plasma in Zeta, density measurements from, (E), 23:10623
  - neutron detection measurements from theta, 21:42149
  - neutron emission from Mk-1A plasma focus, 23:25381 (AD-678506)
  - neutron production and emission from deuterium Z, electrode metal effects on, (E), 24:6554 (AD-693125)
  - neutron production in dense deuterium focus, model for, 25:17205 (AD-712692)
  - neutron production in dense plasma focus, 22:34727 (LA-DC-9327)
  - neutron production in dense plasma focus, mechanism of, (T), 23:32497
  - neutron production in focused z, 22:34726 (AD-665416)
  - neutron production in non-cylindrical z, 25:5116(T) (SC-T-70-4046)
  - neutron production in noncylindrical z, in deuterium, 22:1280 (LA-3770, Paper C3)
  - neutron spectra from ISAR I, deuteron velocity distribution from, 22:50212 (IPP-1/83)
  - operation of ISAR, review of 1965, 22:7256(R) (NP-16754)
  - operation of Scylla IV, 21:3801 (LA-3596)
  - operational characteristics of Scylla 1A, with crowbar, 23:10600 (LA-4042)
  - operational properties and reproducibility conditions of toroidal, without axial magnetic fields, 21:29246
  - performance of fast 120-kV z, 21:15101
  - performance of hard-core theta, with reverse trapped magnetic field, 22:1141 (LA-3770, Paper G5)
  - performance of z-preheater, for MJ theta pinch devices, 22:1256 (LA-3770, Paper H2)
  - plasma acceleration in toroidal stabilized, ring, 21:27202
  - plasma and loss in Scylla III, laser interferometric measurement of, 22:11404(R) (LA-3831)
  - plasma anisotropy and relaxation in fast MJ theta, 22:1195 (LA-3770, Paper G2)
  - plasma anisotropy and relaxation in Isar-I, 22:1176 (IPP-1/67)
  - plasma ballooning in theta, for $\beta = 1$, 21:13610
  - plasma boundary layer stability in linear theta, M and S configuration, (E/T), 23:34375(T) (NP-tr-1794)
  - plasma confinement and equilibrium in M and S configuration in, (E/T), 23:34375(T) (NP-tr-1794)
  - plasma confinement and equilibrium in toroidal theta, 21:37409 (IPP-1/63)
  - plasma confinement in cusp-geometry Chalice, deuterium, 23:8588
  - plasma confinement in hard-core theta, with shear, (E), 23:32318
  - plasma confinement in Levitron, (E), 23:32336
  - plasma confinement in linear theta, end losses in, 21:9531
  - plasma confinement in linear theta, with trapped reverse magnetic field, (E), 23:32319
  - plasma confinement in radial, method and apparatus for, 23:48877(P)
  - plasma confinement in Scylla IV, (E), 25:25080 (LA-4611)
  - plasma confinement in theta, end-loss inhibition by nonadiabatic rough magnetic walls, (T), 23:32320
  - plasma confinement in theta, high beta, 21:46311
  - plasma confinement in theta, in M and S configuration, (T), 23:44386
  - plasma confinement in theta-, computer program for calculating, 25:19647 (IPP-6/90)
  - plasma confinement in toroidal axisymmetric theta, high-beta, (E), 25:38381 (CONF-710607-114)
  - plasma confinement in toroidal theta, high-beta, (T), 23:32321
  - plasma confinement in toroidal theta, snowplow model calculations for, (T), 23:14747
  - plasma confinement in toroidal theta, with superposed hexapole field, (E), 24:40037
  - plasma confinement in toroidal theta, with superposed hexapole, 24:47198
  - plasma confinement in toroidal, with superposed helical hexapole field, (E), 23:23064 (IPP-1/92)
  - plasma contraction in linear Z, (E), 21:9526
  - plasma coupling with magnetic fields in theta, collisionless, (E), 25:22482(R) (ORO-3393-5)
  - plasma current flows in R-Om, penetration of ion acoustic barrier in, (E), 25:38461 (CONF-710607-21)
  - plasma densities and confinement in large theta, 22:1132 (LA-3770, Paper A5)
  - plasma density and temperature measurement in theta, using 90° laser scattering, 22:3015 (IPP-1/58)
  - plasma density measurement in theta, using laser scattering, (E), 23:14767
  - plasma density measurements in theta, using laser scattering, 23:10616
  - plasma diagnosis in Scylla 1A, halo, (E), 23:14739(R) (LA-4075)
  - plasma diagnosis in Scylla, laser interferometer for, 23:10611
  - plasma diagnostics in Balloon experiment, 22:50126(R) (EUR-CEA-FC-352)
  - plasma diagnostics in BSG-I, using laser scattering, (E), 25:7366 (IPPJ-96)
  - plasma diagnostics in Columba Z, argon and deuterium, (E), 23:14739(R) (LA-4075)
  - plasma diagnostics in Scylla, research on, (E/T), 25:30450(R) (LA-4585)
  - plasma diagnostics in theta, determination using lasers, 21:3828
  - plasma diagnostics in theta, using Faraday rotation, (E), 23:36655
  - plasma diagnostics in theta, using lasers, 22:39053

plasma diagnostics in theta, using light scattering, 21:11610(R) (ORO-3393-2)
plasma diagnostics in theta-, using 10.6 μ interferometry, 25:52782 (IPP-1/117)
plasma diagnostics in theta-, using image-converter camera, 25:52789
plasma diagnostics in three-meter Scylla IV, (E), 25:47512
plasma diffusion and stability in 8-m theta, high-β, (E), 23:32461
plasma diffusion in theta, high-β, (E), 23:48878
plasma drift in curved theta, suppression of, (E), 23:14749
plasma drift in theta, magnetic field asymmetry effects on, 21:29195
plasma dynamic stabilization in theta, (T), 23:32481
plasma dynamics in high-frequency theta, 21:46341
plasma electron density and temperature measurement in theta, using lasers, (E), 25:1175
plasma electron density and temperature measurement in theta, using laser scattering, (E), 23:12787
plasma electron density in large, optical measurement of, 22:9299
plasma electron density measurement in theta, using Mach—Zender interferometers, 22:1156 (LA-3770, Paper D2)
plasma electron heating in theta, spectral analysis of, 21:9540 (JUL-413-PP)
plasma end loss inhibition by nonadiabatic rough magnetic walls in theta, computer simulation of, 22:44068 (LA-DC-9328)
plasma end losses in combined magnetic mirror and theta, (T), 25:30464
plasma end losses in slow theta, 22:7257
plasma energy and particle losses from short theta, (E), 24:17880
plasma equilibria and stability in toroidal screw, 21:27123
plasma equilibria in Scyllac, calculation of high-beta, 22:7329 (LA-3749)
plasma equilibrium and stability in ISAR IV toroidal screw, (E), 25:38459 (CONF-710607-18)
plasma equilibrium in toroidal, high-beta, (T), 25:19718
plasma equilibrium in Z, Vlasov methods for, 23:46495 (LA-3844(Pt.2))
plasma equilibrium in, two-dimensional calculations for high-beta, 22:1133 (LA-3770, Paper B4)
plasma flow in shock tubes, spectra of, (E), 24:6530 (AD-694106)
plasma focus and neutron emission mechanisms in z, (T), 23:32503
plasma heating and stability in combined, (E), 25:38332 (CONF-710607-13)
plasma heating by carbon dioxide lasers in theta, (T), 25:45454
plasma heating by lasers in, (T), 25:33216
plasma heating by shock waves in z, 25:38333 (CONF-710607-14)
plasma heating in ISAR I linear theta, with helical $l = 1$ symmetry, (E), 25:33203(T) (CTO-742)
plasma heating in $l = 1$ high-β stellarator, in linear ISAR I, 25:22469 (IPP-1/111)
plasma heating in theta, parameters of, 21:39983
plasma heating in theta, properties of low-density, (E), 24:6514
plasma heating in theta-, by lasers, (E/T), 25:45455
plasma heating in theta-, kinetics of, (E), 25:38386 (CONF-710607-125)
plasma heating in two-step theta, (E), 22:26360
plasma heating in ultra-fast theta, research on, 25:47495(R) (AD-714619)
plasma hydromagnetic instabilities in theta, 22:1265 (LA-3770, Paper B1)
plasma instabilities in bumpy theta, dynamic stabilization of, (T), 25:27785
plasma instabilities in diffuse screw, magnetohydrodynamic, 24:35461
plasma instabilities in high-β theta, collisionless tearing mode, (T), 23:23175
plasma instabilities in ISAR I linear theta-, $m = 0$ mirror, (E), 25:36182
plasma instabilities in ISAR I, mirror, (E), 24:51694 (IPP-1/105)
plasma instabilities in ISAR III, dynamic stabilization of $m = 1$ mode, (E), 25:38460 (CONF-710607-20)
plasma instabilities in toroidal screw pinch ISAR IV, (E), 25:9489
plasma instabilities in toroidal screw, shear and kink, (T), 25:43390
plasma instabilities in traveling bumpy theta, 22:7330
plasma instability in ISAR I, $m = 1$, (E), 25:49911 (IPP-1/115)
plasma instability in toroidal diffuse, resistive, (E), 25:36168
plasma intabilities in Scylla, research on, (E/T), 25:30450(R) (LA-4585)
plasma ion heating in fast theta, 22:1136 (LA-3770, Paper D1)
plasma kinetic theory in helically symmetric theta-, (T), 25:33317 (LA-4599)
plasma kinetics in hf theta, (E), 21:5236 (IPP-1/51)
plasma kinetics in theta-, with superimposed azimuthal magnetic fields, (T), 25:36129 (UARAEE-102)
plasma loss measurement from end of theta, using lasers, 22:26368
plasma loss measurements from theta, using laser interferometers, 22:1137 (LA-3770, Paper D3)
plasma loss rates from theta, collisionless equilibrium, 22:1134 (LA-3770, Paper B5)
plasma losses from end of theta, adiabatic, (T), 22:36885
plasma losses from theta, pressure gage measurement of, 21:31385 (CLM-R-70)
plasma losses in high-current, from inverse skin effect, (T), 25:58967
plasma losses in toroidal theta, with superposed hexapole, 23:6968 (IPP-1/82)
plasma oscillations in high-voltage theta, spectra of enhanced, (E/T), 24:8506
plasma parameters of noncylindrical Z, at implosion, 21:46336(T) (CLM-Trans-8)
plasma preheating in megajoule, (E), 23:16767 (N-68-33372)
plasma preionization method for theta, (E), 24:17910
plasma preionization properties in large inverse field, 22:1257 (LA-3770, Paper H6)
plasma preionization source for theta, design and performance of, 22:24354
plasma preionization source for theta, properties of, 22:24355
plasma pressure, density, and temperature measurements in Scylla III, 21:39995
plasma production in theta, without interaction between plasma and neutrals at ends, 22:1182 (LA-3770, Paper A8)
plasma properties in 1-MA currents, (E), 23:32377
plasma properties in 8-meter theta, 22:1180 (LA-3770, Paper A2)
plasma properties in Columba, 22:11404(R) (LA-3831)
plasma properties in combined z and theta, (E), 23:32396
plasma properties in dynamic z-, discharge ignition effects on, (E), 25:59015
plasma properties in linear theta, research in Garching, 22:1179 (LA-3770, Paper A1)
plasma properties in linear z, effects of repeated ignition of discharges on, (E), 24:49131(T) (AEC-tr-7170)
plasma properties in Scylla-1A, with crowbar, (E), 24:5183
plasma properties in theta with transverse magnetic fields, two-dimensional, 22:46136 (IPP-1/81)
plasma properties in theta, high-temperature, 22:41583
plasma properties in theta, in azimuthal magnetic fields, 22:29478(T) (NP-tr-1633)
plasma properties in theta, with azimuthal magnetic field, 22:15514
plasma properties in theta-, electron bursts in, (E), 25:59021
plasma purification process for theta, preionization, 21:3800 (CLM-R-62)
plasma radial motion in theta, simulation of, 25:52815 (IPPJ-DT-23)
plasma radial stability in Columba, (T), 23:14739(R) (LA-4075)
plasma radiations from theta, intensities of, 21:11636(T) (NP-tr-1489)
plasma screw instabilities in, parametric excitation of, (T), 25:1228
plasma simulation in theta, collisionless finite-β, (T), 23:39486
plasma simulation in, high-beta, (T), 23:1358 (LA-3990, pp C8.1-3)
plasma stability in bumpy field Scylla IV, 22:11404(R) (LA-3831)
plasma stability in hard-core theta, 22:1269 (LA-3770, Paper G6)
plasma stability in high-β toroidal, (E/T), 25:38457 (CONF-710607-16)
plasma stability in ISAR IV, (E), 25:38458 (CONF-710607-17)
plasma stability in Limpus corrugated theta, 21:11668 (IPP-1/55)
plasma stability in linear and toroidal theta, 22:46189 (LA-DC-9324)
plasma stability in rotating theta, kink, (T), 24:10569
plasma stability in rotating theta-, $m = 1$ mode, (T), 24:21815
plasma stability in Scyllac, review of, (T), 25:38481 (CONF-710607-117)
plasma stability in theta, (T), 21:9622
plasma stability in theta, effect of magnetic field nonuniformity on, (E), 23:34454 (N-69-20997)
plasma stability in toroidal Scyllac, (E/T), 23:14739(R) (LA-4075)
plasma stability in toroidal systems, critical-β for, (T), 23:39498
plasma stability in toroidal theta, linear experiments on, (E), 23:32462
plasma stability in z, focusing in, (E), 23:23166 (LA-4088)
plasma stability in, strong stabilizing effect in, (T), 24:35468
plasma stability in, two-fluid model for magnetohydrodynamic, 21:46385
plasma stabilization and equilibrium in helical-field theta-, linear and toroidal, (E), 25:38480 (CONF-710607-116)
plasma stabilization in Columba, 24:17975(R) (LA-4351)
plasma stabilization in linear theta, using feedback systems, (T), 25:27726 (LA-4598)
plasma stabilization in Scyllac device, feedback, 24:17975(R) (LA-4351)
plasma stabilization in slow theta, due to plasma outside mirror end points, 22:1264 (LA-3770, Paper A7)
plasma stabilization in theta, in series of caulked cusp fields, 24:28314
plasma stabilization in theta, properties of, (E), 22:29531
plasma stabilization in toroidal Tolosokop, hf, (E), 25:38462 (CONF-710607-22)
plasma stabilization in toroidal, by feedback, 23:5439
plasma stabilization of $m = 1$ mode in bumpy theta-, (T), 24:21817
plasma tearing-mode instabilities in, Bessel function model for, (T), 23:25377
plasma temperature and density measurements in long theta-, (E), 24:3317
plasma thermal equilibrium in theta-, Balmer line intensities for, (E), 25:52807
plasma turbulent heating and anomalous diffusion in, (T), 25:38351 (CONF-710607-66)
plasma turbulent heating by shock waves in theta-, (E), 25:38384 (CONF-710607-123)
plasma turbulent heating by straight discharge current, (E), 24:6511(T) (NP-tr-1862)
plasma waves in theta, area, 22:39135
plasmoid production and propagation in nonlinear Alfven waves in, (T), 22:36924
potential breakdown in hydrogen—methane and deuterium—methane filled theta, (E), 22:31841
power supplies for 500-kV theta, design of, 25:30567 (EUR-4593, pp 265-71)
power supplies for fast compression experiments, fast current pulse, 22:46104 (IPP-4/57)
power supplies for ISAR I, crowbar system for, 25:30560 (EUR-4593, pp 189-95)
power supplies for Pharos, clamp system for, 21:15086 (NRL-6422)
power supplies for theta, explosive driven generators for, 24:24053 (LA-4250, pp DI.8.1-6)
power supplies for, coaxial cable development for, 21:25104 (LA-DC-8087)
power supplies for, failure analysis of pulsed-capacitor, 21:35135 (IPP-4/35)
power supplies for, test facility design for high current, 21:25101 (66-C-483)
power supply for, crowbar system in Isar I, 22:45217 (IPP-4/59)
power supply switch for Pharos, design of, 21:7172 (NRL-6418)
properties of combination Z—THETA, with superimposed fields from superconducting coils, 23:5371
properties of inverse thetatron, 24:17981
properties of inverse, (T), 23:1366
properties of Scyllacita, 22:50131 (LA-3863)
properties of toroidal screw, in constant-pitch magnetic field, (E), 23:32394
properties of very-high-density theta, (E), 23:32382
radiation from fast z-, time—space resolved spectroscopic measurements of, (E), 25:56150 (LGI-70/14/E)
radiation losses from dense plasma in Z, 23:6970 (IPP-1/86)
radiation losses from theta, at 100 to 200 A, (E), 25:56149 (IPP-1/108)
radiation losses from theta-, in 10- to 200-A range, (E), 25:33258
research at LASL during 1969, 24:17975(R) (LA-4351)
research at LASL during Nov. 1969—Oct. 1970, 25:30450(R) (LA-4585)
research on Levitron program, (E), 24:21824 (UCRL-50002-69, pp 116-50)
research on Levitron, (E), 23:3447 (UCRL-50002-68, pp 164-73)
review of Perhapsatron research, 25:49921 (LA-4664)
review of Z- and theta, for plasma confinement, 24:15348(T) (CTO-686)
shock implosion calculations for theta, using collisionless ion Vlasov equation, 22:13450 (67-C-166)
shock structure and turbulent heating in deuterium, (E), 23:32341
shock wave and current sheet structure in theta-, in argon, (E), 24:28263
shock wave pressure measurement in inverse-Z, piezoelectric probe for, 23:3452(T) (NP-tr-1670)
shock wave production and properties in inverse, (E), 23:36672
shock wave production in inverse-z, plasma properties in, 21:11604 (IPP-1/52)
shock wave propagation in theta, stationary collisionless, (E), 24:17915
shock wave structure in fast theta, (E), 23:32402
shock wave structure in hydrogen plasma in theta, (E), 23:36673
spark gap and trigger system development for Scyllac, 24:24050 (LA-4250, pp DI.4.1-5)
spark gap design for Scyllac, ferrite-loaded piggy-back crowbar, 24:24051 (LA-4250, pp DI.5.1-3)
stability criteria for mirror instabilities in high-β theta, (T), 23:30574
stability in dense plasma focus, hydromagnetic, (T), 23:30573
switch design for conical theta, spark gap, 24:49200
switch development for Scylla, crowbar, (E), 23:14739(R) (LA-4075)
switch development for Scyllac, solid dielectric crowbar, 24:24052 (LA-4250, pp DI.6.1-10)
switches for Isar IV, design and operation of, 23:6969 (IPP-1/85)
switches for theta, design of vacuum crowbaring, 24:12850
use as high-intensity neutron sources, 21:44515 (CONF-660925, pp 623-34)
use for high-temperature plasma production, 22:31863
use of Z- and theta-, to produce megagauss magnetic fields, 23:1368
use of Z- and theta-, to produce megagauss magnetic fields, 24:47191(T) (LA-tr-70-18)
vacuum seals for Pharos , fabrication of insulated easily mountable, 23:36649
vacuum system development of toroidal, 23:8574
valve for theta, design of high speed, 22:47438
x ray emission from theta, 22:46167
x-ray production in focused z, 22:34726 (AD-665416)
x-ray production in focused z, 22:34726 (AD-665416)
x-ray spectra from, Ross filter system for measuring, 24:26174 (AD-699202)
PINCH EFFECT
  charged-particle motion in toroidal theta and screw, (T), 25:33214
  computer simulation of theta, 22:1193 (LA-3770, Paper F2)
  current dynamics in theta-, model for, (T), 24:26196
  current layers in Z, formation and acceleration of luminescence, (E), 23:30540
  current measurement in theta-, shorting, (E), 23:51626
  current sheet structure in argon z, (E), 24:26178
  current sheet structure in cylindrical argon plasma, 21:42122
  current sheet structure in rare gas, 21:25128 (N-67-12041)

  deuteron acceleration and neutron production in z, (E/T), 24:30361
  electric field fluctuations in turbulent plasma, (E), 25:38428 (CONF-710607-56)
  electrode distance effects on linear, in hf quadrupole fields, 23:8595(T) (AEC-tr-7003)
  electron beam interactions with plasma, reverse current induction in, (T), 24:10538
  electron beam transport in z-, intense relativistic, (E), 25:40624
  electron density and temperature measurement in theta, using laser scattering, 25:25099
  electron density measurement in Z, laser-excited optical resonator for, (E), 23:42238
  electron density profiles in theta, measurement using holographic interferometry, 24:47204
  electron drift velocities in z, laser scattering measurement of, 25:14256
  electron trajectories in toroidal, 22:17657
  electron velocity distribution measurements in theta, using lasers, 24:49116
  equilibrium of toroidal theta, stationary, (T), 24:3393
  flow in coupling of laser-created plasma with focus discharge, experiment on axial, 24:45221
  formation and breakup in plasma focus, 22:1185 (LA-3770, Paper C5)
  formation of linear theta, adiabatic time development of, 21:40020
  generation of cylindrical shock waves in Z-, piezoelectric probe for measuring pressure of, (E), 21:24253
  ion density and current distribution measurement in Z, using microwaves, (E), 24:3314
  ion distribution function for high-current z-, (E), 25:59024
  ion temperature measurement in rotating, helium, 24:40043 (LRP-40/70)
  ion velocity distribution in deuterium theta-, measurement using time-resolved neutron spectra, (E), 25:7365 (IPP-1/109)
  kinetic theory of longitudinal, in infinite cylinders, (T), 25:36135
  kinetics of, quasi-orthogonal theory for, 22:20005
  liquid stability in hard-core, conducting, 21:9372
  luminous radiations from argon plasma, (E), 23:23095
  magnetic field measurements in theta, Faraday rotation, 21:7241
  mass pickup in low-energy theta, (E), 22:9343
  microwave emission from theta, (E), 23:36671 (NP-17943)
  microwave radiations from theta, (E), 25:36122
  microwave scattering by lf plasma oscillations in theta-, (E/T), 25:9520
  model for cylindrical shock, (T), 21:2194 (N-66-21355)
  neutron acceleration mechanisms in z, in deuterium, (T), 24:51721
  neutron emission from deuterium—tritium cavity, (T), 24:12845 (KFK-992)
  neutron emission from deuterium—tritium discharges, (T), 24:8486
  neutron emission from focused z, in deuterium, 22:1281 (LA-3770, Paper C6)
  neutron emission in coaxial discharges, in deuterium and deuterium—tritium plasmas, 22:1279 (LA-3770, Paper C2)
  oscillations in electron—hole, finite-amplitude $m = 0$, 25:30544 (IAE-1950)
  plasma acceleration by moving current layer in theta-, (E), 25:7382 (NP-18539)
  plasma anomalous energy loss in theta, collisionless, 21:35146 (IPP-1/61)
  plasma compression with anomalous friction, collisionless, (E/T), 21:46303 (CONF-661041-14)
  plasma conductivity and temperature in theta, (E), 21:7199
  plasma confinement and stability in theta, effects of magnetic mirrors on, 22:1138 (LA-3770, Paper D7)
  plasma current sheath dynamics in Z, two-dimensional snowplough model for, 22:31853
  plasma density measurement in z, laser interferometry, (E), 24:12790
  plasma diagnostics in z, using Thomson and Rayleigh scattering, 23:42232 (IPP-1/95)
  plasma diagnostics in, using uhf wave reflection, 22:44089 (NP-17570)
  plasma drift in toroidal theta, (T), 24:17877
  plasma dynamic stabilization in theta, (T), 21:44130
  plasma dynamics in theta, in transverse magnetic field, 21:33461
  plasma dynamics in theta, with transverse magnetic fields, 22:44163
  plasma dynamics in Z, argon, 21:33468
  plasma electron densities in Z, determination using microwave probes, 21:3819
  plasma electron density measurement in rotating-field, 22:13437 (LRP-36/67)
  plasma electron density measurement in theta, using Mach—Zehnder interferometer, (E), 23:23078 (AD-672813)
  plasma energy loss in theta, 21:42083
  plasma equilibria in theta, collisionless, (T), 22:52773 (LA-3844)
  plasma equilibrium and stability in high-current, (T), 23:36708 (NP-17953)
  plasma equilibrium and stability in z and inverse, (T), 23:12872 (NP-17748)
  plasma equilibrium in constant and helical hf magnetic fields, 22:50171
  plasma focus in coaxial injector, (E), 23:32378
  plasma heating in theta, compression temperature for (T), 25:22478
  plasma heating in z-, current processes in, (T), 25:45449 (NP-18947)
  plasma hydromagnetic instabilities in bulged theta, deuterium, (E/T), 24:51705
  plasma hydromagnetic instabilities in theta, (T), 22:1273
  plasma impedance effects on time variation of inverse, 23:7017
  plasma instabilities in hard-core, compressible resistive tearing mode, (T), 24:10564
  plasma instabilities in low-density, wave kinetics in, 25:1233
  plasma instabilities in resistive sheet, (T), 23:48929
  plasma instabilities in tubular sheet, tearing mode of, (E/T), 23:48923
  plasma instabilities in z, finite-conductivity, (T), 23:25370
  plasma instability in hard-core, incompressible resistive, 21:42139
  plasma instability in helically symmetric theta-, high β, (T), 25:9498
  plasma instability in rotating theta, finite Larmor radius equations for, 25:9497
  plasma instability in screw, effect of force-free fields on, (T), 25:19706
  plasma instability in sheet, resistive, (T), 25:33309
  plasma instability in strong longitudinal magnetic fields, 24:49187
  plasma interactions in fast thetatron, collective, (E), 24:15298 (KHFTI-69-32)
  plasma interactions in fast thetatron, collective, (E), 24:45238(T) (AEC-tr-7164)
  plasma kinetics in cylindrical, undergoing neutral atom penetration, (T), 25:7389
  plasma magnetohydrodynamic instabilities in screw, (T), 24:30352 (IPP-1/100)
  plasma oscillations in column, radial, (T), 24:19918 (IPP-1/104)
  plasma preionization in z, for slow theta pinch, 24:17949
  plasma probing by two atomic beams in Tuman device, 24:51630
  plasma properties in conical Z, hydrogen, (E), 23:51644
  plasma properties in dynamical theta, (E/T), 21:7202
  plasma properties in theta, effects on beta in, (E), 22:17690
  plasma properties in theta, trapped magnetic field effects on, 21:31433
  plasma properties in z, helium, 24:21772
  plasma properties in z, pressure effects on, 22:7317
  plasma radiation losses from z, dense, (E), 23:39467
  plasma relaxation effects in non-Maxwellian high-temperature theta, (T), 21:18692
  plasma resistive instabilities in low-energy theta, (E/T), 22:13525
  plasma rotation in implosion phase of theta-, (E), 24:5164
  plasma rotation in theta-, collisional, (T), 24:28276
  plasma sausage instabilities in self-constricted, (T), 25:36173
  plasma sheath stability in theta, (T), 22:1268 (LA-3770, Paper F3)
  plasma stability and equilibrium in high-current, (T), 23:42333(T) (AEC-tr-7050)
  plasma stability in high-beta theta, z-dependent marginal, 22:1267 (LA-3770, Paper B7)
  plasma stability in rotating theta, (T), 23:18677
  plasma stability in screw, effect of oscillating quadrupole fields on kink modes of, (T), 23:18675 (LA-4081)
  plasma stability in screw, with Hall current, (T), 25:27732
  plasma stability in sharp screw, (T), 24:15336
  plasma stability in sheet, finite-resistivity, (T), 23:25375
  plasma stability in theta, high-β collisionless, (T), 24:21820
  plasma stability in, bounce model for, 21:29305
  plasma stability in, screw, (T), 23:51700
  plasma stability in, with longitudinal magnetic field, 21:40037 (NP-16976)
  plasma stabilization by force-free magnetic fields in linear, magnetohydrodynamic, (T), 25:56200
  plasma stabilization in linear z, by quadrupole magnetic fields, 25:19717
  plasma stabilization in linear, feedback, (T), 24:15346
  plasma stabilization in Z, using superimposed theta pinch, (E), 22:50200 (IPP-1/77)
  production of Megagauss z, in solid plasma, 22:11448
  production using rotating magnetic fields, 21:37444 (IRP-31/67)
  properties in cylindrical gas discharges, (T), 23:46480
  properties of helium in Z-, structure of, (E), 24:5165
  properties of relativistic sheet, with current shear, (T), 23:30558
  properties of repeated discharges in cylindrical Z, (E), 24:5162 (NP-18065)
  radiation losses from dense z, (E), 24:51643
  radiation losses from dense z-, (E), 25:5092(T) (SC-T-70-4044)
  radiations from argon plasma, stimulated emission of, (E/T), 24:12798(T) (AEC-tr-7127)
  radiations from theta, near plasma frequency, (E/T), 23:16789
  radiations from theta-, enhanced far-ir, (E), 25:9448
  radiations from, stimulated emission of, 21:15138
  relation to electrical explosion of metallic cylinders, 25:47516
  scattering in Thomson and Rayleigh preionization hydrogen z, (E), 23:42280
  shock wave formation in collisionless plasmas in theta, (E), 25:9452
  shock wave precursors in z, in helium and argon, 24:17916
  shock wave propagation in conical, effect of longitudinal magnetic field on, (E), 25:36117 (UARAEE-106)
  shock wave simulation in theta, using collisionless ion Vlasov equation, 21:44068 (NASA-SP-153, pp 269-73)
  shock waves in theta, numerical solution of, 21:44067 (NASA-SP-153, pp 237-64)
  simulation of sheet, computer, 25:3094
  simulation of theta, computer, 21:44064 (NASA-SP-153, pp 191-6)
  skin effect in conductivity of turbulent z discharges, (E), 25:17201
  skin effect in high-energy z, (E), 25:30507 (NP-18775)
  skin effect in z, ion—acoustic instabilities in, (E), 25:7380(T) (MATT-Trans-102)
  spectra of linear z-, in helium at 6 torr, (E), 23:14760
  stability and equilibrium of high-current discharges in low-temperature plasmas, (T), 23:48921
  stability of Bennett, hydromagnetic, (T), 25:27748
  stability of low-density, 25:30544 (IAE-1950)
  stability of sheet, finite-resistivity, 21:44131
  stability of toroidal screw, magnetohydrodynamic, (E/T), 23:30567 (NP-17881)
  stability of z, in quadrupole hf fields, effect of interelectrode distance on, 22:46135 (IAE-1486)
  stabilization of corrugated theta, with long-wave perturbations with $m = 1$, 25:9501
  stabilization of linear screw, dynamic, (E), 25:27790
  stabilization of $m = 1$ mode screw, dynamic, (T), 25:27749
  stabilization of z-, dynamic, (E/T), 25:27789
  theory for one-dimensional, static, 22:3081
  use with hydromagnetic accelerators, for dense plasma production, 22:1250 (LA-3770, Paper C1)
  viscous effects in liquid conductor model of hard-core, (T), 22:19978
  x-ray emission from focused z, in deuterium, 22:1281 (LA-3770, Paper C6)
  x-ray emission from focused z, in deuterium, 22:1281 (LA-3770, Paper C6)

Pine Burst
    see Hardtack Operation—Phase I
Pine Trees (Pinus)
    see Pinus under Gymnospermidae
PINEAL GLAND
  radiation effects of radioactive rainwater on, of pregnant mice, 21:435
  radiation effects on activity of hydroxyindole methyltransferase and synthesis of melatonin in, in rats, x, 25:13559
  radiation effects on fine structure of, of rats, x, 24:6000
  radiation effects on rat, x, 21:1807
  radioprotective effects of extract of, on rats, assessment of x, 22:33879
  removal of rat, effects on iodine-131 uptake by thyroid gland, 22:47475
2-PINENE
  radiation effects on, products from γ, 22:6323
  radioinduced polymerization under superdry conditions, γ, 25:57450 (ORO-3667-1)
  radioinduced polymerization with liquid formaldehyde at low temperature, γ, 23:35139 (TID-24923)
Pinky Pile
    see Sigma Piles
Pinot Project
    see Plowshare Project
Pions
    see Mesons (π)
PIPE FITTINGS
  connecting and disconnecting flanged, design of device for remotely, 23:2468(P)
  design and performance of, summary of experience on, 25:4188 (TID-25553)
  design of bypass and drain connection, standard for, 25:32113
  design of demountable leakproof, for connecting nonaligned pipes, 24:4401(P)
  design of forged steel, for use with lens gaskets in high-pressure chemical industry, standard for, 25:32116
  design of steel and Zircaloy-2 reactor, to withstand temperature-induced strains, 22:49695(P)
  elastic response and fatigue testing of, for nuclear service, 25:48290(R) (ORNL-TM-2663)
  elastic response and fatigue testing of, for nuclear service, 25:48291(R) (ORNL-TM-3411)
  elastic response and fatigue testing of, for nuclear service, 25:57092(R) (ORNL-TM-3483)
  erosion of high-pressure, chromium-50 and cobalt-60 tracer techniques for measuring, 25:57662
  failure of flawed ASTM A106B steel, hydrostatic testing of, 25:42845 (GEAP-10236)
  failure of tee-type, at Big Rock Point Power Plant, 23:27051 (GECR-5401)
  failure strength of elbow and tee, effects of flaws on, (E), 24:46034(R) (GEAP-11069)
  inspection of cast steel, standard for magnetic particle, 25:32156
  inspection of cast steel, standard for radiographic, 25:32153
  inspection of surfaces of cast steel, standard for visual, 25:32154
  maintenance for MSRE leaking quick disconnect air line, description of remote, 23:23930 (ORNL-TM-2555)
  repair of primary pressure system, in LACBWR power plant, 25:37931 (CONF-710512-11)
  standard marking system for, 25:34786
  standards for nuclear power plant, 25:46223
  stress analyses for tees, branch connections, and elbows in reactor systems, (E/T), 24:36051(R) (ORNL-TM-2984)
  stress analysis for ASA B 16.9 tees, (E), 24:29038(R) (ORNL-TM-2919)
  stress analysis for T-shaped cylinder, 25:34392(R) (ORNL-4647)
  stress analysis for T-shaped cylinder, 24:22431(R) (ORNL-4511)
  stress analysis for tees, branch connections, and elbows in reactor systems, (E/T), 24:46071(R) (ORNL-TM-3061)
  stress analysis of ASA B16.9 tees, (E), 24:20581(R) (ORNL-TM-2829)
  tensile properties of ASA B16.9 tees, 24:4077(R) (ORNL-TM-2718)
  testing of tangential, 25:28871(T) (ORNL-tr-1991)
  weld inspection in, radiographic method for, 23:6275
3-PIPECOLINE
  radiolysis of glasses of, at 77°K, ESR studies on trapped electrons produced by γ, 25:31983

- PIPERAZINE
  - effectiveness of water-based foams of, for methyl iodide removal from reactor containment, 23:2059 (NYO-841-14)
  - effects on deuterium exchange of isobutyraldehyde, 21:35967
  - radioprotective effects of, on hemin solutions, x, 22:8562 (NP-16875)
  - reactions with isobutyraldehyde, 21:35967
  - use as impregnant in activated charcoal for trapping methyl iodide from wet gases, 22:42945(P)
- PIPERIDINE
  - complexes with europium and terbium containing 1,3-diphenyl-1,3-propanedione, effects of deuterium on luminescence of, 22:18764
  - complexes with tetravalent thorium, preparation and properties of, 23:19725
  - complexes with uranium tetrachloride, preparation and characterization of, 23:6111
  - effects of, on quenching of toluene scintillators, 21:4485 (EGG-1183-2111)
  - effects on dehalogenation of 2- and 4-chloro- and fluoroquinoline derivatives, kinetics of deuterium isotope effects on, 23:2267
  - effects on deuterium exchange of isobutyraldehyde, 21:35967
  - effects on γ-induced isomerization of cis-stilbene in cyclohexane, 24:7458
  - effects on luminescence of ionic processes in x-irradiated p-terphenyl in cyclohexane, 22:35872
  - effects on mechanism of γ-radioinduced cis—trans isomerization of 2-pentene in cyclohexane solution, 24:18988
  - effects on separation of carbon-13 and oxygen-18 by chemical exchange of carbon dioxide with amine carbonate in methanol solutions, 22:133 (CU-755-4, Paper IIB)
  - effects on solvent extraction of beryllium from thiocyanate solutions using organic solvents, 23:43389
  - nitroxide free radicals in, 310-MHz NMR study of, 25:12034 (CEA-R-3855)
  - radiolysis of, effects of additives and temperature on yields from γ, 23:28899
  - radiolysis of, effects of nitrous oxide on hydrogen yields in γ, 23:244
  - radiolysis of, yields of products from γ, 25:6365
  - reactions of deuterated and normal, with substituted benzene compounds, kinetic deuterium isotope effects on group displaced in, 23:11509
  - reactions of, with 2,4-dinitrophenyl phenyl ether in aqueous dioxane, kinetic hydrogen and oxygen isotope effects in hydroxide ion-catalyzed, 21:3028
  - reactions of, with bischloronitroso compounds, deuterium isotope effects on, 21:5878
  - reactions with 4-chloro-1,6-dinitronaphthalene, effects of deuterium on, 22:37724
  - reactions with cyclohexyl 2,4-dinitrophenyl ether, effects of deuterium on, 22:37724
  - cyclohexane—piperidine, spectra of, effects of carbon-13 on chemical shifts in NMR, 21:42941
- PIPERIDINE, 1-ACRYLOYL-2-METHYL-
  - radioinduced polymerization of, effects of dose on kinetics of γ, 25:48531
- PIPERIDINE, 1-ACRYLOYL-2-METHYL-5-ETHYL-
  - radioinduced polymerization of, effects of dose on kinetics of γ, 25:48531
- PIPERIDINE, 4-tert-BUTYL-1-ETHYL-
  - reactions with methyl chloride in 1,2-dimethoxyethane, chlorine isotope effects in, 22:27627 (MIT-905-108, pp 63-78)
- PIPERIDINE, 1-DECYL-
  - solvent properties for plutonium and uranium in nitric acid solutions, relation of structure to effectiveness of, 25:21105
- PIPERIDINE, 1-METHACRYLOYL-
  - radioinduced polymerization of, effects of dose on kinetics of γ, 25:48531
- PIPERIDINE, 1-PHENYL-
  - photolysis of, effects of cyclohexene, cyclopentene, diethyl maleate, and N-phenylmaleimide on yields from uv, 23:49839
  - radiolysis of, effects of cyclohexene, cyclopentene, diethyl maleate, and N-phenylmaleimide on yields from γ, 23:49839
- 4-PIPERIDONE, 2,2,6,6-TETRAMETHYL-, N-OXIDE
  - effects on electron-radiosensitivity of Escherichia coli, 23:50953
  - effects on pulse electron radiolysis of thymine, mechanism of, 23:284
  - effects on x-radiosensitive mutants of Escherichia coli, 23:14226
  - effects on x-radiosensitivity of cultured Chinese hamster cells, 25:4561
  - effects on x-radiosensitivity of DNA in bacteria and bacteriophages, 25:4550
  - effects on x-radiosensitivity of Escherichia coli, 25:4550
  - radiation effects on bonding of, to hydroxyl-induced DNA transients, ESR spectral studies on spin-quenching effects of oxygen on, 24:50426
  - radioinduced complexing with DNA, binding energy and reaction kinetics for electron, 25:51994
  - radioinduced complexing with lysozyme, binding energy and reaction kinetics for electron, 25:51993
  - radiolysis in Escherichia coli, effects of nitrous oxide on, 23:35190
  - reactions with radioinduced free radicals from DNA and nucleotides in aqueous solutions, 25:4541
- PIPERONAL
  - radioinduced formation of, from insafrol, 21:5969(P)
- PIPERONYL BUTOXIDE
  - effects on toxicity of malaoxon or malathion in adult house flies x irradiated as pupae, synergistic and inhibitory, 25:16286
- PIPERAZINEDIONE
  - circular dichroism in, shapes and intensities of near uv, 24:22565 (UCLA-12-770)
- Piperylene
  - see 1,3-Pentadiene
- PIPES
  - (Generally thick walled, large diameter.)
  - see also Heat Pipes
  - see also Pipe Fittings
  - see also Tubes
  - arrays of intersecting uranyl nitrate-filled, empirical model for calculating criticality safety of, 24:48240 (RFP-1553)
  - boiling fluid flow in electrically heated vertical, spatial-averaged model to study stability in, 21:28160
  - boiling length of unstable two-phase flow in, effect of slip ratio on crucial, 21:36229 (BNL-11532)
  - boiling water in, calculation of forced convection heat transfer to flowing, 24:9588
  - bonding of, method for, 22:8719
  - burnout heat transfer in circular, with uniform heat flux distribution, 21:41113
  - burnout in vertical, with convective flow, correlation for, 23:43462
  - cleaning in heat exchangers, 22:12483
  - cleaning methods for N Reactor, 22:15142 (DUN-SA-45)
  - cleaning of nuclear systems, methods and requirements for, 24:44166
  - closing of aluminum, copper, and steel, using high explosives, 22:6513 (LA-3786)
  - closure device for ends of, design for handling radioactive materials, 25:8458(P)
  - configuration of gas-cooled reactor coolant flow channels, design criteria for improved, 23:13489
  - configurations of enriched uranyl nitrates in multiple intersecting, criticality parameters for, (T), 22:50807 (RFP-1197)
  - connectors for nonaligned, design of demountable leakproof, 24:4401(P)
  - corrosion by seawater, testing of, 24:30978
  - corrosion in La Crosse Boiling-Water Reactor forced-circulation cooling system, corrosion coupon and ultrasonic measurement methods for detecting, 23:15557 (SwRI-1228-P-11-2).
  - corrosion of oil well, monitoring using cobalt-60, 22:23724(P)
  - corrosion of power plant, methods for reducing, 22:52134
  - corrosion protection in heat exchangers, 22:12483
  - crack detection in pressure, acoustic emission method for, 23:52378(R) (BNWL-1187)
  - crack detection in pressure, acoustic emission method for, 23:43130(R) (BNWL-1084)
  - crack detection in pressure, acoustic emission signal analysis for, 23:9182(R) (BNWL-754)
  - crack detection in pressure, acoustic emission signal analysis for, 23:11252(R) (BNWL-926)
  - crack detection in pressure, acoustic emission signal analysis for, 23:11251(R) (BNWL-433)
  - crack detection in pressure, by acoustic emission signal analysis, 23:9183(R) (BNWL-816)
  - crack detection in pressure, use of acoustic emission signal analysis for, 23:2053(R) (BNWL-885)
  - crack detection in reactor pressure, acoustic emission method for, 24:36044(R) (BNWL-1315-2)
  - crack detection in, sonic method for, 22:12008(R) (BNWL-537)
  - crack growth in ASTM A-106B steel seamless, effects of flaw configurations on, 23:45069(R) (GEAP-5770)
  - crack growth in ASTM A-106B steel seamless, effects of bending and pressure stresses on, 23:47196(R) (GEAP-10024)
  - crack growth in metal, calculation of low cycle fatigue, 24:13543(R) (GEAP-10072)
  - crack growth in metal, equation derivation for probability of circumferential, (T), 22:50734(R) (GEAP-5637)
  - crack growth in metal, equations for probability of circumferential, (T), 23:26037(R) (GEAP-5680)
  - crack growth in metal, equations for through wall low cycle fatigue, 23:45069(R) (GEAP-5770)
  - crack growth in metal, equations for through-wall low-cycle fatigue, 23:26038(R) (GEAP-5716)
  - crack growth in metal, Monte Carlo analysis of through-wall low cycle fatigue, 23:47196(R) (GEAP-10024)
  - crack growth in reactor pressure, acoustic emission method for detection of, 24:14210
  - crack growth in reactor primary system, parameters of, 21:17449(R) (GEAP-5279)
  - crack growth in, acoustic emission method for detection of, (E), 22:51190 (BNWL-SA-1772(Pt.1))
  - crack initiation and growth in reactor cooling systems, effects of low-cycle fatigue on, (E), 25:1880(R) (GEAP-10207)
  - crack initiation and growth in reactor cooling systems, effects of low cycle fatigue on, (E), 25:12783(R) (GEAP-10207-22)
  - crack initiation and growth in reactor cooling system, effects of low-cycle fatigue on, (E), 25:28680(R) (GEAP-10207-23)
  - crack initiation and growth in reactor cooling systems, effects of low-cycle fatigue on, (E), 25:60061(R) (GEAP-10207-24)
  - cracking and deformation in natural gas, use of acoustic emission to detect, 22:269 (BNWL-SA-1262)
  - cracks in, acoustic emission method for detection of, 24:22423(R) (BNWL-1315-1)
  - cracks through walls of ductile, formulas for prediction of length of, 24:29466 (BMI-1883)
  - cross section and shape of, effects on convective heat transfer from rough surfaces, 21:43141
  - decontamination of stainless steel, effectiveness of hydrogen peroxide inhibited oxalic acid solution for, 24:50103 (DP-Report-410)
  - defects in metal, standard ultrasonic method for detecting longitudinal, 25:57686
  - deformation under dynamic loading, method for calculation of plastic, 25:21255 (ANL-7738)
  - deposits in welded, location with radioactive tracers, 21:16055(P)
  - description of Tokai-Mura Power Reactor cooling system, 22:20840
  - design and performance of glass, for reactors, 25:58421
  - design codes and standards in U.S. for liquid metal cooled fast breeder reactor, 25:20723 (SAN-781-217)
  - design criteria for Fast Test Reactor cooling system, structural, 24:11225 (BNWL-1236)
  - design criteria for liquid sodium thin wall large diameter, development of instability, 25:23271 (UNC-5234)
  - design criteria for nuclear installation, 22:7816(R) (ORNL-TM-2057)
  - design criteria for nuclear service, development program for, 25:48291(R) (ORNL-TM-3411)
  - design criteria for nuclear service, development program for, 25:34393(R) (ORNL-TM-3342)
  - design criteria for nuclear service, development program for, 25:57092(R) (ORNL-TM-3483)
  - design criteria for nuclear-service, development program for, 25:23313(R) (ORNL-TM-3263)
  - design criteria for use in sodium cooled rector systems, 25:8071
  - design for nuclear service, criteria for, 25:48765(R) (ORNL-4693)
  - design for nuclear service, criteria for, 24:44214(R) (ORNL-4576)
  - design for plutonium fabrication hood, engineering drawings for, 22:14654
  - design for plutonium nitrate solution handling facility, 25:18628
  - design for Sodium Component Test Installation, 22:48982(R) (LMEC-68-20)
  - design for Sodium Component Test Installation, 23:9609(R) (LMEC-68-1)
  - design for uranium hexafluoride sampling and transfer facility, engineering drawings for, 22:14639
  - design guide for liquid metal cooled fast breeder reactor systems, development and verification of, 25:15355 (SAN-781-100)
  - design guide for liquid metal cooled fast breeder reactor, philosophy and criteria of, 25:15360 (SAN-781-500)
  - design guide for liquid sodium, in liquid metal cooled fast breeder reactors, 25:20720 (SAN-781-1)
  - design of bubble chamber, for studies of alpha-induced void nucleation in superheated water, 25:13152(R) (SU-326-P-13-5)
  - design of components and systems of, summary of practices in, 25:4188 (TID-25553)
  - design of earthquake-proof systems of, simplified method for, 23:26423
  - design of earthquake-proof, transition matrix method for, 23:19881
  - design of pressurized water reactor, in Switzerland, 25:7932
  - design of superheating reactor steam distribution header, 23:40351(P)
  - design parameters of spaced in-core reactor, with multiple injection nozzles, 25:10200(P)
  - design requirements for high pressure and high temperature systems, for water cooled power reactors, 25:18131
  - design requirements for liquid metal cooled reactors, 25:20725 (WHAN-SA-46)
  - design requirements for liquid sodium cooled fast breeder reactor, 25:20721 (SAN-781-110)
  - design specifications for liquid metal cooled fast breeder reactor, comparison of dynamic analysis methods for, 25:15362 (UNC-5231)
  - design specifications for liquid metal cooled fast breeder reactor, review of research and development programs for, 25:15361 (SAN-781-518)
  - design, fabrication, assembly, and testing of systems of, for nuclear power plants, ASME Standard Code for, 22:40298
  - development for components and systems, summary of research on, 25:4188 (TID-25553)
  - development in Japan for liquid metal cooled fast breeder reactor cooling system, 25:18132
  - drilling of holes in reactor coolant loop, method for chipless, 24:25187
  - elasticity analysis of, computer program for, 21:38456(R) (GEAP-5474)
  - elbows in, computer program for stress analysis of, 22:50734(R) (GEAP-5637)
  - erosion of duct-type, by pumped liquid sodium, 23:3024
  - fabrication methods in Japan of reactor coolant loop, 22:14177
  - fabrication of bend sections in, by casting, 23:18201(P)
  - fabrication of cylindrical multiwalled metal, with or without prestressing, hydraulic pressure method for, 24:25178
  - fabrication of Dodewaard Power Reactor cooling system, 24:9067
  - fabrication of liquid metal cooled fast breeder reactor, requirements for, 25:15356 (SAN-781-220)
  - fabrication of pressurized water reactor, in Switzerland, 25:7932
  - fabrication of spiral multilayer, for pressure vessels, method for, 24:46404(P)
  - fabrication of steam, for Sodium Components Test Installation, 23:24344(R) (LMEC-69-1)
  - fabrication of subassemblies for liquid metal service, 25:48695 (RDT-F-6-11-T)
  - failure detection of reactor pressure, development of acoustic emission signal test for, 23:23935(R) (BNWL-1009)
  - failure in piping systems, effect of gross yielding on, 21:43095 (WAPD-TM-663)
  - failure in reactor cooling systems, probability analysis of, 25:1880(R) (GEAP-10207)
  - failure in reactor cooling systems, probability analysis of, 25:12783(R) (GEAP-10207-22)
  - failure in reactor cooling systems, probability analysis of, 25:28680(R) (GEAP-10207-23)
  - failure in reactor cooling systems, probability analysis of, 25:60061(R) (GEAP-10207-24)
  - failure in reactors, mechanisms of, 21:15730

failure of axially flawed, mathematical analysis of, 23:27050 (GEAP-5622)
failure of Babcock and Wilcox Test Reactor cooling system header, revised safety procedure for, 23:26098
failure of boiling reactor cooling system steel, testing for low cycle fatigue, 24:18631(R) (GEAP-10120)
failure of flawed ASTM A106B steel, hydrostatic testing of, 25:42845 (GEAP-10236)
failure of flawed, large diameter, thin-walled, prediction of, 23:27049 (GEAP-5620)
failure of liquid metal cooled fast breeder reactor, mechanisms and theories for, (T), 25:20724 (UNC-5235)
failure of liquid sodium cooled fast breeder reactor, mechanisms and incidents for, 25:20722 (SAN-781-214)
failure of nuclear power plant, effects of stress intensity on, 22:27952 (GEAP-5557)
failure of nuclear power plant, microfractographic and x-ray methods for detection of fatigue, 24:25238
failure of pressurized-water reactor inlet, one-dimensional approximation for annular region blowdown from, (E/T), 23:19512(R) (IDO-17266)
failure of reactor cooling system, bibliography on in-service, 24:26750 (CEA-Bib-79(Add.1))
failure of reactor primary, methods of estimating, 21:7878(R) (GEAP-5192)
failure of reactor primary-coolant, determination by reliability engineering, 21:25625(R) (GEAP-5427)
failure of reactor, probability analysis for, 25:8866 (GEAP-10205)
failure strength of elbows and tees in, effects of flaws on, (E), 24:46034(R) (GEAP-11069)
failures in nuclear power plants, bibliography on, 22:3816 (CEA-Bib-79)
failures in reactor cooling system, probability analysis for mechanisms of, 22:35459(R) (GEAP-5587)
fatigue cracking of high pressure, effects of flaws on low-cycle, (E), 24:46034(R) (GEAP-11069)
fatigue in sodium-filled SCTI, analysis of thermal transient, 23:9609(R) (LMEC-68-1)
fatigue testing of primary coolant, stress analysis for, 22:15174(R) (GEAP-5554)
fatigue testing of primary coolant, stress ratio analysis of, 22:15174(R) (GEAP-5554)
fatigue tests on ATR primary cooling system mockups, 23:40396 (TID-25139)
fittings for steam, testing of configurations and materials for, 25:5980 (KFK-1183)
flaw detection in welded seams in, 21:4720
flaw growth detection in reactor pressure, sensing by acoustic waves of, 21:35566 (BNWL-SA-1076)
flexibility in liquid metal-cooled fast breeder power reactor cooling system, design and analysis of, 22:39812
flow at exit of vertical, use of turning tee and beam to measure unsteady two-phase, 22:10488 (TID-24126)
flow in ducts of arbitrary cross section, numerical analysis of unsteady MHD, 24:17743
flow in long, stability of forced, 23:17683
flow of conducting fluids along insulating, singularities of Hartmann layers in MHD, 21:43884
flow of flashing fluid through, theory of critical, 22:42957 (AHSB(S)R-147)
flow of fluid—solid suspensions in, heat transfer measurements for turbulent, 22:45242 (ORNL-TM-2124)
flow of supersaturated water from short, equations for calculation of rate of, 23:17682
flow rates in large, radioactive tracer method for measurement of, 24:39042 (PRNC-135, pp 317-26)
flowrate limits in cryogenic stainless steel, 22:24194 (LA-DC-9163)
fluid flow effects on heat transfer in two-phase gas-liquid region in vertical, (T), 22:14299
fluid flow in circular, incompressible, viscous, MHD, (E/T), 21:20824
fluid flow in circular, unsteady MHD, (T), 24:15183
fluid flow in horizontal constant wall temperature, properties of freely convecting heat-generating liquids in, (E/T), 24:9584
fluid flow in rectangular, with perfectly conducting electrodes, 21:23058
fluid flow in, calculation of viscosity coefficients in turbulent interface of, 24:31580
fluid flow in, radiometric equipment for instantaneous measurement of, 21:34500
fluid flow through bends of, equations for predicting pressure losses in two-phase, 23:21879 (CONF-680118-2)
fracture behavior of flawed elbows and tees of, review of, 25:11369(R) (BMI-1892)
fracture opening of, relations with time, evaluation of instrumentation for measurement of, 25:24553(R) (BMI-1902)
fractures in reactor cooling system, flow analysis for accidental water discharge through, 23:26446
friction factors in roughened, effect of boundary conditions on, 21:24164
gamma attenuation in helical-plug-filled, (E), 21:13782 (AE-261)
gamma dose rate from neutron capture in walls of concrete ducts, computer code for calculating, 21:35210 (ORNL-3964)
gas flow in strongly heated circular, method for characterizing quasi-developed turbulent, (T), 25:8420
hangers and supports for, standard for design and fabrication of, 25:32117
hangers and supports for, standard for selection and uses of, 25:32118
heat transfer and frictional resistance in, effect of shape and surface characteristics on, 21:6143
heat transfer characteristics of, (T), 25:20790 (WHAN-FR-22)
heat transfer from heated, to two-phase annular flow, effects of diffusion and film formation on critical, (E), 25:54869 (FEI-217)
heat transfer from walls of, to liquid metals, effect of contact resistance on, 21:41112
heat transfer from, to moving fluids, effects of pipe surface roughness on, 22:23213(R) (RLO-1954-2)
heat transfer in entry sections of, 21:6143
heat transfer in noncircular, by steady laminar forced convection, 21:12582
heat transfer in two-phase flow in single and multiple, 21:41144
heat transfer in, with periodic boundary conditions, 21:24163
heat transfer to liquid metals flowing in, effects of wall-liquid metal interface on, 23:11717
heat transfer to liquid-metal containing, effects of axial conduction on, 21:8143
heat transfer to separated-flow air in, 21:43148
heat transfer to turbulently flowing nitrogen in, effects of temperature gradients on, 21:43149
helium II in cylindrical, temperature differences and mutual friction near lambda point in, 25:30405
hydraulics of noninstantaneous breaks in, blowdown approximation analysis of, (T), 23:52406(R) (IDO-17302)
inspection of Dresden Power Reactor Unit 1, description of nondestructive in-service, 22:53343
inspection of liquid metal cooled fast breeder reactor, comparison of methods for in-service, 25.15359 (SAN-781-243)
inspection of, design of gamma camera for, 22:47393(P)
installation of liquid metal cooled fast breeder reactor, requirements for, 25:15356 (SAN-781-220)
interface in, isotope-powered x-ray instrument for detecting arrival of, 22:43137(P)
joining of steel cooling system, to Zircaloy-2 pressure tubes, 23:16472 (BNWL-746, pp 8.1-7)
joint seal for coolant, description of inclined radial groove, 22:10092(P)
leak detection in inaccessible, review of radioactive tracer techniques for, 22:49034
leak detection in underground gas, use of bromine-82-labeled methyl bromine for, 23:7693 (EUR-4065)
leak testing of large, vacuum method for, 24:50104 (ZJE-85)
leak testing of welded, methods for, 24:397
leakage in reactor cooling systems, effects of low-cycle fatigue and service life on, (T), 24:46034(R) (GEAP-11069)
length of, for nuclear fuel reprocessing plants, formula for prediction of, 21:6100
liquid flow in rectangular, velocity stabilization of mercury MHD, 22:5209
liquid flow in, stoppage by sphere bridging, 21:12569 (AAEC/TM-331)
liquid freezing in large diameter horizontal, design of equipment for, 23:50005(P)
magnetohydrodynamic flow along cylindrical, in transverse magnetic field, (T), 22:13319
magnetohydrodynamic flow in, with sudden expansion, (E/T), 22:9158
maintenance in nuclear plants, design of remote cutting and welding tools for, 24:9576
maintenance of long steel cooling water intake, for Tokai Atomic Power Station, 23:13928
materials for fossil-fuel steam plant, review of, 22:52191
materials for LMFBR, evaluation of properties of, 24:32423
materials for steam, requirements of, 22:47672 (CONF-671007-5)
mechanical properties of reactor primary cooling system, design requirements for, 25:18254
mechanical properties of reactor primary cooling system, design requirements for, 25:18253
mechanical properties of reactor primary cooling system, design requirements for, 25:18256
mechanical properties of reactor primary cooling system, design requirements for, 25:18255
neutron attenuation by air ducts in shield, (T), 22:31910
neutron attenuation in helical-plug-filled, (E), 21:13782 (AE-261)
neutron streaming doses in two-legged concrete ducts, (E/T), 23:1507
neutron streaming in shield ducts, (E/T), 24:24105
neutron streaming in water-filled cylindrical, thermal, (T), 21:35208 (CEA-R-3196)
neutron streaming through concrete duct, (E/T), 22:31902
neutron streaming through ducts, analytical solution, 24:3442
neutron transmission through rectangular concrete ducts, computer code for calculating, 21:35210 (ORNL-3964)
neutron transmission through simple bent conducting, calculations of, 25:20245
neutron transport in, comparison of calculations and experiments on, 22:7338 (ORNL-TM-1965)
particle transport to walls of, from turbulent flow, 22:27996 (WAPD-TM-765)
performance in components and systems, summary of service experience in, 25:4188 (TID-25553)
performance of gas-cooled power reactor cooling system, effects of thermal shocks on, 23:26003 (ZJE-43)
performance of pressurized water reactor, in Switzerland, 25:7932
performance under coolant loss accident conditions of large steam, in boiling water reactors, 23:47094 (APED-5750)
pressure waves in gas cooled reactor cylinder shaped wave guide, propagation of, (T), 24:5523 (ZJE-54)
radiation streaming through off-set, parametric study, (E/T), 23:44491
reactions and stresses in, computer program for computing, 21:10500 (HW-74976)
reliability of reactor, time-to-damage method for estimating, 23:37799
repair of primary pressure system, in LACBWR power plant, 25:37931 (CONF-710512-11)
rupture in 24-in.-OD reactor coolant, effects of surface flaws on, 22:16787(R) (BMI-1828)
rupture in pressurized-water power reactor cooling system, simulation for blowdown analysis of, (E/T), 23:15665
rupture of ductile, mechanisms of, 24:41626(R) (BMI-1887)
rupture of ductile, mechanisms of initiation and extent of, 24:29935(R) (BMI-1880)
rupture of reactor coolant, effects of defect size on ductile, 21:14816(R) (BMI-1793)
rupture of reactor cooling system, research on ductile, 24:12391(R) (BMI-1876)
rupture of reactor primary coolant system, analysis of, (E/T), 23:24887
rupture of, status of research on mechanisms of, 25:22070
seals for horizontal, description of concentric cylinder with sphere covered hole for, 22:7867(P)
seismic analysis of, 24:24831
seismic analysis of power reactor primary cooling system, (T), 24:13545
sodium boiling characteristics in reactor coolant, oscillograph techniques for analysis of liquid, 24:24827
standard for ultrasonic testing for longitudinal discontinuities, 25:42026 (RDT-F-3-8-T)
standards code for U. S. power reactors, 25:3778
standards for nuclear power plant, 25:46223
standards for power reactor, description of safety, 24:1988
standards for pressure, for U. S. nuclear power plants, 25:25864
standards for ship pressure and power systems, 25:37099
steam—water flow in fog-cooled reactor power plant, dynamic model for, 24:2371 (CISE-R-121)
steam-water flow in heated, deterioration conditions of heat transfer in, (E), 21:39117(T) (NP-tr-1522)
stress analysis for statically loaded deep-hole casing, criteria for, 23:16020 (UCRL-50561)
stress analysis for stepped cylinder, 24:22431(R) (ORNL-4511)
stress analysis in metal, comparison of computer programs for, 24:18631(R) (GEAP-10120)
stress analysis in metal, comparison of computer programs for, 24:13543(R) (GEAP-10072)
stress analysis in metal, computer program for, 23:26038(R) (GEAP-5716)
stress analysis in metal, computer program for, 23:45069(R) (GEAP-5770)
stress analysis in metal, errors in PAPA-EPS computer program for, 23:47196(R) (GEAP-10024)
stress analysis in thick-walled, computer program for, 23:15759 (RD/B/N-1202)
stress analysis of boiling water reactor primary system of, design calculation model for, 23:47195 (GEAP-5724)
stress analysis of elbows in, computer program for, 23:26037(R) (GEAP-5680)
stress analysis of reactor primary system, using PAPA code, 21:17449(R) (GEAP-5279)
stress codes for nuclear component, comparison of fatigue test results with limitations set by, 24:41632 (TID-25479)
stress in boundaries of perpendicularly-joined circular, analysis in transition region of, 23:17285
stress limits for liquid metal cooled reactor, 25:20725 (WHAN-SA-46)
stress standards development for use in reactors, Sept. to Oct. 1969, 24:11214(R) (ORNL-TM-2777)
stresses at externally-loaded branch connections of, design formulas and indexes for analysis of, 24:41631 (ORNL-TM-3014)
stresses in gas-cooled reactor gas-outlet, analysis of thermoelastic, (E/T), 23:13516
stresses in internally pressurized out-of-round, method for calculation of, 25:8871 (ORNL-TM-3244)
stresses in nuclear power plant, analysis of earthquake- and thermal-induced, 25:54850
stresses in pressurized Tee joint branches of, comparison of calculated and measured, 24:44214(R) (ORNL-4576)
stresses in reactor cooling system, standards formulas for thermal, 24:1985
stresses in systems of, effects of dimensional inaccuracies on calculation of, 25:13182
support structures for, summary of experience on design of, 25:4188 (TID-25553)
surface damage of thin-walled sodium process, effects of trace heating on, 24:31638
systems of, calculation of limit loads in design of, 21:43095 (WAPD-TM-663)
systems of, use of computer program for analysis of, 21:36208 (TRG-Report-1409)
tees for nuclear service, elastic response and fatigue testing of, 25:34393(R) (ORNL-TM-3342)
temperature distribution in gas-cooled reactor gas-outlet, analysis of gradients in, (E/T), 23:13516
testing methods for liquid metal cooled fast breeder reactor, comparison of model, 25:15358 (SAN-781-234)
testing of stainless steel reactor, nondestructive method for, 23:17716
thermal expansion of steam generator, design of coupling to permit, 23:33299(P)
thermal loading of gas-cooled reactor cooling system, during sudden shutdown, 25:39640 (ZJE-67)
thermal ratchetting in, 25:54311
thickness measurement of, design of gamma backscatter and straight-through gages for, 25:46647(P)
thickness tests on, for use in gas-fired potassium—sodium heaters, 21:20472(R) (NASA-CR-72146)
transmission of desalted water in, effect of low cost power on, 21:23796 (ORNL-P-2960)
turbulent flow through, non-Newtonian correlation for, 22:12532
use in double pipe heat exchangers, mathematical analysis of heat transfer for, 21:43146

use in nuclear power plants, preparation and properties for, 22:32805
use of high pressure steel, for gas cooled graphite moderated reactor coolant and moderator storage systems, 23:31174(P)
use of plastic and plastic-lined, in plutonium scrap recovery plant, 22:27855 (ISO-SA-22)
valves for steam, reliability analysis of isolation, 25:6040 (RISO-214, pp 247-53)
vibrations in steam, analysis of, 21:210 (NAA-SR-Memo-11961)
void fraction measurements in rectangular, 21:16063
void fraction measurements in rectangular, 21:32308(R) (GEAP-5275)
volumetric concentration in two-phase flow in rectangular, 21:32308(R) (GEAP-5275)
water flow in circular, diffusion and mixing during turbulent, 22:47280 (AERE-R-5569)
water flow in, heat transfer measurements in, (E), 22:16766
water flow rates in discharge, effects of saturation and subcooled boiling on, 21:43178
water flow rates in, salt-dilution and salt-velocity methods for measuring, 21:45295 (TID-23737, pp 231-329)
water flow rates in, tracer diffusion studies for high pressure, (E/T), 21:45309 (TID-23737, pp 1-86)
water flow rates in, use of dye tracers for measuring, (E), 21:45313 (TID-23737, pp 145-230)
weld testing in, nondestructive methods for, 21:22109
welding in internal bore of, design of electric arc torch for, 23:19892(P)
welding of ferrous, for nuclear power plant service, standard for, 25:35308
welding of nuclear power plant metal, standard method for, 25:45026
welding of, design of remote automated welder for, 25:41981
welds in, fatigue evaluation of defective butt-type, 21:31006 (WAPD-TM-560)
welds in, radiation source carriage for radiographic equipment for inspection of, 23:2490(P)
welds in, review of fracture mechanisms in, 25:4781

PIPETS
calibration of micro-, 23:7 (IN-1203, pp 52-61)
design of disposable, for radioiodination, 23:9339
design of remote-control, for liquid radioactive samples, 22:37915
design of remotely controlled, 24:26987
design, fabrication, and testing of remote-controlled, corrosion-resistant, 21:1421(R) (ORNL-3965)
development for handling radioactive solutions, 23:29119
development of corrosion resistant, for use in reactor fuel reprocessing, 25:6258(R) (IN-1426)
holder for, design of remotely controlled, 21:43120(P)
stimulator for micro-, piezoelectric mechanical, 24:22538 (NYO-3406-18)

Piqua Nuclear Power Facility
see Piqua Power Reactor

PIQUA POWER REACTOR
control elements for, description of improved configuration modifications for, 22:46856 (AI-AEC-12696)
control rod drives for, safety evaluation of modified, 23:28363 (NAA-SR-12516)
control rod modification program summary to time of project termination, 23:9070 (AI-AEC-Memo-12648)
coolant chemistry during July to December 1966, 23:28362(R) (NAA-SR-12445)
coolant for, effects of out-of-core deposits on purification of, 22:3833(R) (NAA-SR-Memo-12540)
coolant fouling in, mechanisms for, 23:23894 (EUR-4206)
coolant system of, analog computer simulation of primary, 21:8640(R) (IDO-17211)
coolant temperatures in, effects of core depth on, 22:10006(R) (NAA-SR-12561)
core deposits in, formation mechanisms of carbonaceous, 23:28363 (NAA-SR-12516)
core deposits in, sampling and analysis of carbonaceous, 23:28362(R) (NAA-SR-12445)
core for, safety evaluation of modified, 23:28363 (NAA-SR-12516)
core inspection and modification, 21:23607(R) (NAA-SR-12148)
core inspection and unloading, 21:7955
core modification recommendations, 21:1169(R) (NAA-SR-Memo-12071)
core system for, description of hydraulic model studies of, 22:37406 (BNWL-518(Del.))
design and operating characteristics of, tabulation of, 22:7831
design, development, and economics of, 21:5609 (COO-284(Vol.1))
fuel assemblies in, effects of configuration on temperature of lower end grid support, date of, 22:35421 (AI-AEC-Memo-12574)
fuel assembly performance in Core I of, post-irradiation testing of, 22:44860
fuel element assemblies for, postoperation evaluation of core-I, 22:6026
fuel element characteristics of, 22:49822
fuel element performance in, postirradiation examination of, 21:40564(R) (NAA-SR-12395)
fuel elements for, analysis of coolant erosion of modified design for, 22:12031 (NAA-SR-Memo-12401)
fuel elements for, evaluation of performance of, 25:51030(R) (NAA-SR-12492)
fuel elements for, hydraulic testing of modified, 22:12033 (NAA-SR-Memo-12536)
fuel elements for, inspection of, 21:40546 (CONF-661001-54)
fuel elements for, performance of irradiated, 21:7885(R) (NAA-SR-12175)
fuel elements in Core II of, ISOCHECK method for isotopic analysis of, 22:16116 (CEND-291)
fuel elements in, measurement of heat transfer coefficients of, 22:10006(R) (NAA-SR-12561)
maintenance and operation for September 1967, 21:46840(R) (COO-652-43)
maintenance during July to December 1966, 23:28362(R) (NAA-SR-12445)
maintenance of, description of January 1966 shutdown, 22:46856 (AI-AEC-12696)
nuclear analysis of new core, 21:23607(R) (NAA-SR-12148)
operating availability evaluation following completion of recovery program modifications, 22:10007 (NAA-SR-Memo-12420(Vol.1))
operating availability evaluation for, reliability diagrams, component failure data, and failure mode and effect analyses used in, 22:10008 (NAA-SR-Memo-12420(Vol.2))
operation of, Jan.-Apr. 1966, 21:1169(R) (NAA-SR-Memo-12071)
operation of, summary for July 1965 to Jan. 1966, 21:7884(R) (NAA-SR-11995)
operation performance of, description during 1963 to 1966, 22:46856 (AI-AEC-12696)
operational performance of, 22:3833(R) (NAA-SR-Memo-12540)
operations analysis program for, 21:23607(R) (NAA-SR-12148)
operations during July to December 1966, 23:28362(R) (NAA-SR-12445)
operations history and statistics for 1968, 24:3996 (TID-25254)
operations history during January to July 1967, 22:10006(R) (NAA-SR-12561)
operations history of, total, 22:1821
operations of, tabulation of components and systems failures during, 25:39204(T) (LIB/Trans-357)
operations of, tabulation of systems and components failures during, 24:20580 (NP-18160)
pressure vessel surveillance, 21:28794(R) (BNWL-CC-355)
project justification data on, JCAE hearings on, 23:43077
radiation effects on core, 21:23607(R) (NAA-SR-12148)
retirement program for, 24:30979 (AI-AEC-12832)
shielding for, safety analysis of residual nuclides in concrete, (E/T), 24:38511 (AI-AEC-Memo-12708(Suppl.A))
structural steel surveillance in, 21:28795(R) (BNWL-CC-510)

PISTON ENGINES
see also Aircraft Engines
see also Internal Combustion Engines
design and performance of modified Stirling cycle, for circulatory support system, 22:40318 (AGN-8258)
piston ring wear in, radioactive tracer method for measuring, 22:49031
piston rings for, tracer method for measuring wear of, 25:32135
temperature of piston rings in Diesel, krypton-85 tracer method for measurement of working, 25:29282

Pisum
see under Angiospermidae

Pitch
see Bituminous Materials

PITCHBLENDE DEPOSITS
origin and significance of Canadian Athabasca region, 24:20906
seleniate mineral contents in Liauzun-en-Olloix, France, 22:48966

PITCHBLENDES
see also Uraninites
analysis by mass spectrography, 23:47369(T) (ORNL-tr-2220)
analysis for lead-210 and radon-222 by method involving solvent extraction of bismuth activities using Dalzin, 23:15808
analysis for uranium using ascorbic acid supporting electrolyte, polarographic, 24:38742
deposition of, with sulfides, effect of organic matter on, 21:8466
description and photography of, in France and Gabun, 23:47659
determination in bitumens by electron microscopy, 23:37896
europium abundance in, normal, 21:45267
formation in uranium ores, origin of, 24:11708
formation of deposits of, thermobaric conditions for, 23:15978
mineralization of, hydrochemical studies on, 23:35349
occurrence in Precambrian shield, 21:43067 (EUR-3481.e)
occurrence of crystallized, with halloysite, 21:6086
promethium-147 content in African, 22:35950
properties of Anna Procopi Mine, in Germany, 23:33277
rare earth content of, 21:45267
rare earth contents in, 21:14930(R) (ORO-3235-12)
separation of ruthenium from, by pressure precipitation using hydrogen sulfide, 21:25943
uranium distribution in, effects of radium on, 22:33577
vein fillings in iron ores in Sweden, 21:1472

PITTSBURGH AREA (PENN.)
radioactivity content of environment at Bettis Atomic Power Laboratory, during 1965, 22:28502
radioactivity monitoring in environs of Bettis Atomic Power Laboratory in, during 1968, 24:33791
radioactivity monitoring in environs of Bettis Atomic Power Laboratory in, during 1967, 24:2617
radioactivity survey and areal geology of, 21:8451 (CEX-59.4.12)

PITUITARY GLAND
ablation of, effects on sensitivity of rats to phosphorus-32, 21:22341
ACTH synthesis in rat, effects of adrenalectomy on, 22:23458
americium-241 content of, in beagles following intravenous injection, 24:552 (COO-119-240, pp 119-28)
content of thyrotropin in, of catfish, effects of antithyroid drugs, iodine-131, and L-thyroxine on, 23:50288
control of anterior, by hypothalamus, 25:10392(R) (TID-25619)
cytology of rat, effects of localized x irradiation of testes on, 24:48700
effect of disease of, on calcium and phosphorus metabolism, 21:20062
effects of radiothyroidectomy on cells of Bufo andersonii, 25:39924
effects on retina of grass frogs, surgery for, 23:50887
estradiol accumulation in nuclei of, in rats, tritium tracer study of, 23:35591
extract from posterior lobe of, effects on phosphorus-32 excretion in irradiated rats, 21:12777
extract of, combined effects with phosphorus-32 on functioning of rat adrenal cortex, 21:22341
extracts from hypothalamus of, effects of, on oxidative metabolism and synthesis of protein in cell cultures from glands of rats, 22:12175(R) (NYO-3827-3)
extracts of, effects of hypothalmic, from sheep, on content of pituitary growth hormone in plasma of monkeys, 21:14139 (UCRL-16898, pp 130-6)
gonadotropic hormone production by, effects of microwave irradiation of testes on, 21:22511
gonadotropin radioimmunoassay in human, in comparison to urinary gonadotropin for determining antigenic properties of, 24:34004
hypophysectomy of swine, surgical and irradiation methods for stereotaxic, 21:22744
luteinizing hormone radioimmunoassay in tissues of, 24:23062
luteinizing hormone radioimmunoassay of rats, effects of gonadectomy and sex on, 24:34146
metabolism in cell cultures from, of rats, effects of hypothalamic extracts on oxidative, 22:12175(R) (NYO-3827-3)
neoplasms in rat, induced by polonium-210, 21:4865
phosphorus-32 diffusion through, of rabbits, effects of traumatic shock on, 23:22192
phosphorus-32 incorporation into, of rats, effects of ovariectomy on, 23:41206
prolactin radioimmunoassay in, 24:23064
protein synthesis in cell cultures from, of rats, effects of hypothalamic extracts on, 22:12175(R) (NYO-3827-3)
radiation damage to, by yttrium-90 implantation in patients with mammary carcinomas, 21:10990
radiation dose to rats, following administration of tritiated corticosteroids, 21:24437
radiation effects on ACTH function of, during acute radiation sickness in mammals, review of, 24:19355
radiation effects on activity of acid phosphatase in, of mice in relation to circadian rhythm, effects of sex on uv and x, 23:38459
radiation effects on activity of dog, acute and chronic, 25:29642
radiation effects on activity of, of dogs and rats, effects of radioprotective compounds on x, 22:25896
radiation effects on adenohypophysis of, of castrated rats, cytological study of γ, 22:45663
radiation effects on adrenocorticotrophic function of, in rats, chronic, 24:16978
radiation effects on cytology and function of, in eels, iodine-131 β and γ, 23:26908
radiation effects on excised newt, effects of, on melanism and molting following autotransplantation, γ, 23:50852
radiation effects on function of dog, 21:26572
radiation effects on function of human, for therapy of infertility, 24:17117
radiation effects on function of rat, γ, 21:22768
radiation effects on function of rat, x, 25:52194
radiation effects on function of, from injected iodine-131, in rats, 21:17951(R) (LF-33)
radiation effects on function of, in cholesterol-fed rats, uv, 21:10809
radiation effects on function of, in man, microwave, 22:21623
radiation effects on function of, in radiological personnel, chronic ionizing, 23:43901
radiation effects on function of, therapeutic β, proton, and x, 21:28620
radiation effects on histochemistry and vasopressor activity of, x, 21:11030
radiation effects on histochemistry in, of mice, lethal x, 22:12906
radiation effects on histochemistry of, in mice, effects of dose on uv, 22:6732
radiation effects on histochemistry of, in rat, effects of dehydration and rehydration on, 21:22344
radiation effects on homogenates of, effects of, on bone, gonads, and thyroid of hypophysectomized rat recipients, x, 22:40539
radiation effects on hormone secretion by, in man, relation of blood group to β, 24:7973
radiation effects on human, chronic low-dose, 25:39942
radiation effects on human, effects of, on content of epitestosterone and testosterone in urine, 24:29709 (UCRL-18793, pp 113-17)
radiation effects on human, effects of, on ovulation and pregnancy, x, 23:43887
radiation effects on human, effects of, on ovulation and pregnancy, x, 23:48172
radiation effects on human, effects of, on vision, proton, 22:31150
radiation effects on hypophyseal tropic function of, in rats following minimal neoplastic doses, strontium-90 β, 23:29785
radiation effects on morphology and physiology of, in rats, fast neutron, 23:33869
radiation effects on neurosecretory activity of posterior, in rats, γ and x, 22:40565
radiation effects on pars tuberalis in, of frogs and rats, x, 25:24365

  radiation effects on protein synthesis in, of rats, effects of anabolic substances on, 21:28602
  radiation effects on rat, 18-month manifestation of thorotrast α and γ, 23:22398
  radiation effects on rat, x, 21:1807
  radiation effects on reserve function of, in cases of prostate carcinoma, measured by ACTH and Metopirone tests, x, 21:24645
  radiation effects on secretion by rat, polonium-210 α and strontium-90 β, 23:22369(T) (AEC-tr-6944, pp 300-8)
  radiation effects on secretion by, of guinea pigs, x, 23:29796
  radiation effects on structure and function of, in Triturus, effects of transplantation on, 22:19239(R) (ORO-3564-3)
  radiation effects on synthesis of ACTH in, of rats, x, 22:23458
  radiation effects on thyrotropic activity and weight of, in mice, combined effects of thyroidectomy on x, 23:12220
  radiation effects on ultrastructure of, in rats, acute γ, 22:49271
  radiation effects on vasopressor activity of, in rat, effects of dehydration and rehydration on, 21:22344
  radiation effects on, effects of, on production of thyrotropic hormone, strontium-90 β, 22:14964
  radiation effects on, from implant of iridium-192, radon-222, and yttrium-90, 22:51298(R) (COO-1484-3)
  radiation effects on, of albino rats, combined effects of heat treatment on ionizing, 22:10883
  radiation effects on, of animals, incorporated β and γ, 24:44596
  radiation effects on, of dogs, pathological laser, 22:570
  radiation effects on, of goldfish, cytological and physiological study of iodine-131 β and γ, 22:36208
  radiation effects on, of immature swine, β, 21:22744
  radiation effects on, of mammals in relation to radiation sickness, review of ionizing, 22:25966
  radiation effects on, of man, effects of age and dose on γ, heavy particle, and x, 22:8616
  radiation effects on, of mice, effects of, on diurnal rhythm of eosinophils, γ, 22:25993
  radiation effects on, of mouse and rabbit chimeras, γ, 25:21892
  radiation effects on, of rabbits, combined effects of burns and, 24:34648
  radiation effects on, of rats, effects of ablation of neurosecretory nuclei of hypothalamus on γ, 24:51075
  radiation effects on, of rats, effects of dose on chronic x, 22:31260
  radiation effects on, of rats, polonium-210 α and γ, 22:47606
  radiation effects on, of swine, stereotaxic method for introducing strontium-90 source for β, 22:36365
  radioactive rain water effects on, in pregnant mice, 21:435
  radioimmunoassay for thyrotropin in homogenates of human, 24:7705
  radioimmunoassay of luteinizing hormone in, of rats, 24:649
  radioimmunoassay of prolactin in, of sheep, method for in vitro, 23:4898
  radioinduced ablation in patients with diabetic retinopathy, effects on aqueous humor flow rates of high-dose α, 25:27037
  radioinduced ablation of human, by yttrium-90, 24:34547
  radioinduced ablation of human, following implantation of yttrium-90, response of diabetic retinopathy to β, 24:11950
  radioinduced ablation of human, for therapy of Cushing's syndrome, effects of, on citric acid metabolism, β, 23:43688
  radioinduced ablation of human, for treatment of acromegaly and Cushing's disease, gold-198 and yttrium-90, 24:41936
  radioinduced ablation of human, relation of, to treatment of metastases of mammary gland neoplasms, β, 24:19341
  radioinduced ablation of human, thyroid function following yttrium-90 implant β and γ, 25:13579
  radioinduced ablation of, by gold-198 or yttrium-90 implants, injuries resulting from, 21:12906
  radioinduced ablation of, comparison of, with surgical removal, 21:16415
  radioinduced ablation of, effects of, on metabolism of steroids in adrenal glands of human patients with metastatic neoplasms of mammary glands, yttrium-90 β, 23:4978
  radioinduced ablation of, for therapy in human patients, yttrium-90 β and γ, 24:2818
  radioinduced ablation of, for therapy of acromegaly in human patients, yttrium-90 β, 23:26855
  radioinduced ablation of, for therapy of acromegaly, proton, 24:803
  radioinduced ablation of, for therapy of neoplasms of human breast, yttrium-90 β, 23:26854
  radioinduced ablation of, for treating diabetic retinopathy, yttrium-90 implant, 21:22605
  radioinduced ablation of, for treatment of neoplasms in man, use of implants of gold-198 and yttrium-90 for, 22:51975
  radioinduced ablation of, for treatment of patients with acromegaly, Cushing's disease, diabetic retinopathy, or breast cancer metastases, use of high-energy charged-particle beams for, 25:572
  radioinduced ablation of, in human patients with diabetic retinopathy, effectiveness of x, 23:50744
  radioinduced ablation of, in human patients, activation of tissue elements during use of high-energy α beams for, 23:29508 (UCRL-18347, pp 155-70)
  radioinduced ablation of, in man, 24:6094
  radioinduced ablation of, in man, use of implantation of gold-198, iridum-192, or yttrium-90 for, 25:570
  radioinduced ablation of, in patients with Cushing's disease, charged particles, 23:8023 (UCRL-18066, pp 193-8)
  radioinduced ablation of, in swine, use of yttrium-90 implants for β, 23:2741(R) (COO-1339-22)
  radioinduced ablation of, in swine, yttrium-90 β and γ, 23:50270(R) (COO-1339-23)
  radioinduced ablation of, late pathological effects on cranial arteries of, 21:6702
  radioinduced ablation of, review of, 24:27640
  radioinduced ablation of, use for therapy of Cushing's syndrome, γ, 21:39469
  radioinduced ablation of, use for treatment of diabetic retinopathy, complication of x, 21:28567
  radioinduced ablation of, use for treatment of neoplasms, use of yttrium-90 implants for, 21:22609
  radioinduced ablation of, use of high-energy proton beams for, 21:12893(T) (UCRL-Trans-1333)
  radioinduced ablation of, use of yttrium-90 implant for, 21:26477
  radioinduced ablation of, use of yttrium-90 implants for, 21:16380
  radioinduced ablation of, use of yttrium-90 implants as β source for, 21:22545
  radioinduced ablation of, use of yttrium-90 implants for, 21:22546
  radioinduced ablation of, use of yttrium-90 needle for, late pathological effects of, 21:12933
  radioinduced ablation of, use of, for treatment of breast neoplasms in human patients, interstitial yttrium-90 β, 24:7973
  radioinduced ablation of, using gold-198 γ source, dosimetry for, 21:22544
  radioinduced ablation of, using yttrium-90 β source, dosimetry for, 21:22544
  radioinduced ablation of, with Bragg peak proton beam for control of diabetic retinopathy, 21:26550
  radioinduced abnormalities in, of human embryos, 21:11039
  radioinduced adenomas in rat, following thyroid exposure, x, 21:3444
  radioinduced destruction of, by implantation of yttrium-90, complications of, and treatment following, 21:10962
  radioinduced gonadotropic adenomas in, of rats, effects of exposure of thyroid gland on β and x, 22:10871
  radioinduced lesions in, of Beagle dogs, effects of ovariectomy and reproductive status on x, 25:6778 (UCD-472-117, pp 31-3)
  radioinduced lesions of, in mice, relation of, to production of follicle-stimulating hormone, β, 24:21294
  radioinduced necrosis of human, following yttrium-90 implant therapy, β, 22:49526
  radioinduced neoplasms in, of man, review of α, γ, and x, 21:45830
  radioinduced tumor of, of rats, astitine-211, 22:2538
  radioinduced tumors in rat, effects of dose on incidence of proton, 21:16481
  radioinduced tumors in, of rats following injection of radioisotopes, effects of dose on incidence of β, 23:38794
  radioinduced tumors in, pathogenesis of x, 22:15082
  radioinduced tumors of, in rats, determination of small dose for fast neutron and proton, 22:38483
  radioinduced tumors of, in rats, iodine-131, 22:45693
  radioinduced tumors of, in rats, iodine-131 β and γ, and x, 22:43452
  radioinduced tumors of, in rats, protons, 21:13049
  radiosurgery of, methods for and injuries from, 21:16394
  radiotherapy of adenoma of, development of leukemia following x, 21:45735
  radiotherapy of adenoma of, induced head injuries from, in man, 21:28623
  radiotherapy of adenomas in human, development of fibrosarcomas following x, 22:4669
  radiotherapy of adenomas in, of man, interstitial strontium-90 β, 23:31868
  radiotherapy of adenomas of, comparison of radium and x, 21:41465
  radiotherapy of adenomas of, effects of radium therapy on intraocular pressure following, 21:11065
  radiotherapy of adenomas of, effects of, on human growth hormone, proton, 22:47620
  radiotherapy of adenomas of, evaluation of methods for, 21:10947
  radiotherapy of adenomas of, in man, dose distribution and treatment plan for 15 to 37 MeV electron, 23:50766
  radiotherapy of adenomas of, use of combination of gold-198 and yttrium-90 for mixed β and γ interstitial, 21:22546
  radiotherapy of basophilism of, use of yttrium-90 implantations for, in human beings, 21:26541
  radiotherapy of basophilism of, use of yttrium-90 implantations for, in man, 21:26529
  radiotherapy of carcinomas in, of man using yttrium-90 implants, γ, 22:51820
  radiotherapy of chromophobe adenomas of, in man, combined effects of surgery on, 22:12876
  radiotherapy of Cushing's syndrome of, late effects from gold-198, 21:18084
  radiotherapy of human, activation patterns in head tissues following 910 MeV α beam, 23:43833
  radiotherapy of human, protection of eyeballs during linear accelerator x, 23:20233
  radiotherapy of malignant exophthalmos in, of man, development of hyperthyroidism following iodine-131 β and γ, 22:15105
  radiotherapy of neoplasms of, use of yttrium-90 implantations for, clinical results and complications of, 21:10953
  radiotherapy of tumor in human, proton, 22:49386
  radiotherapy of tumor of, in man, development of middle cerebral artery occlusion following γ and x, 22:28554
  radiotherapy of tumors in human, comparison of external irradiation, radioisotope implantation, and radiofrequency, 23:29700
  radiotherapy of tumors of human, evaluation of, 24:34530
  radiotherapy of tumors of, development of cerebral necrosis following γ, 23:38844
  radiotherapy of tumors of, effects of field size on dosimetry for distance γ and x, 21:39454
  radiotherapy of tumors of, evaluation of γ, 21:39494
  radiotherapy of tumors of, using "Gammamed" device, 21:6600
  radiotherapy of tumors of, using gold-198, iridium-192, and yttrium-90 applicators, 23:41399
  radiotherapy of, design of strontium-90 applicator for interstitial, 21:26489
  radiotherapy of, thermoluminescent dosimetry of strontium-90 applicators for β, 23:20230
  radiotherapy of, using heavy particle beams, 21:10967
  radiotherapy with isotope implants for cancer and endocrine diseases, injuries resulting from, 21:24644
  removal by surgery, effects of, on liver cholesterol synthesis in whole-body x-irradiated rats, 24:14426
  removal from male rats, effects of, on zinc-65 distribution in prostate and tissues, 24:4551
  removal from rats, effects of, on calcium-45 and sulfur-35 fixation in bones, 22:47494
  removal of diseased, by yttrium-90 ablation, 22:51820
  removal of hypophyses of, from rats, effects of, on iodine-131 uptake by thyroid gland, 23:35630
  removal of, effects of combined x irradiation and, on kidney cells of goldfish, 21:13034
  removal of, effects of, on food consumption by mammals, 22:21404 (COO-301-150)
  removal of, effects of, on iodine-125 metabolism in rat thyroid gland, 22:40517(R) (ORO-1643-89)
  removal of, effects of, on metabolism of strontium-85 in rat bones, 21:6425
  removal of, effects on iodine metabolism and weight of thyroid in estrogen-treated, 21:8685
  removal of, followed by yttrium-90 implantation for breast cancer therapy, 21:12900
  surgery in man, use of β-emitting radioisotopes for, 22:15031
  tritium-labeled testosterone uptake and distribution in guinea pig, 21:17959
  tumors in, of man, use of beam focus radiography with color isodose curve plotter for localization of hypophyseal, 22:28228
  use of extract of anterior, with prostigmine for elimination of colic gases during abdominal radiodiagnosis, 22:4640
  yttrium-90 implantation in, for therapy of prostate cancer, 21:22641
  zinc-65 distribution in rat, 25:21571

Pituitary Hormones
  see Hormones, Pituitary

PIVALALDEHYDE
  reactions on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)

PIVALIC ACID
  radiolysis in aqueous solutions, study of transient optical absorption spectra from pulse, 24:7457

PIVALIC ACID, ALLYL ESTER
  spectra of pure and carbon tetrachloride solutions of, NMR, 21:45086 (ORNL-4164, pp 46-56)

PIVALIC ACID, METHYL ESTER
  radiation effects on glasses of, at 77°K, effects of 1-chlorobutane or tetrahydro-2-methylfuran on anion production in γ, 23:33240
  radiolysis of, effects of tetrahydro-2-methylfuran rigid matrix on ESR spectra of radicals from γ, 24:216

PIVALIC ACID, p-NITROPHENYL ESTER
  hydrolysis of, effects of deuterium in solvent on elastase-catalyzed, 22:10214

PIVALIC ANHYDRIDE
  hydrolysis of, effects of deuterium, acids, and salts on, 21:3061

PIVALONITRILE
  hydrogen abstraction from, by polystyryl radicals, 23:6114

PIVALOPHENONE
  reactions of, with perchloric acid, carbon-14 tracer studies on rearrangements in, 21:14184(R) (ORO-3234-4)

PL-2
  see Army Reactors (PL-2)

PLACENTA
  blood volume of human, chromium-51-labeled erythrocytes for in utero measurement of, 24:32098
  cerium-144 transfer across, to embryos of mice, 24:4555
  cesium-137 content of human, in relation to content of tobacco products, 25:52046 (UUIP-739)
  cesium-137 content of, in rabbits and rats following administration to mother, 25:16024
  cesium-137 transfer through, in mice, 24:39456 (NIRS-8, pp 63-79)
  development in rabbits, use of sulfur-35 for studying, 24:25351
  iodine-125 and -131 transport across, in pregnant sheep, 25:55319 (UCD-472-118)
  iron-59 transport and uptake by, in rats, effects of fetusectomy, material anoxia, and xanthine oxidase activity on, 24:23069 (CONF-690501-, pp 25-44)
  localization in man, effectiveness of metastable technetium-99-labeled human serum albumin for, 24:32100
  localization of human, use of metastable technetium-99 and γ cameras for, 25:19045
  mercury-203 transport across, following injection into pregnant rats, effects of sodium selenite on, 24:23073 (CONF-690501-, pp 137-43)
  photoscanning of human, using technetium-99m-labeled albumins, 24:2744
  radiation dose to, of man, comparison of radioisotopic and x radiographic, 24:50882 (CONF-691212-, pp 157-84)
  radiation effects on blood circulation in, of rats, tracer method for determining microwave, 24:41965
  radiation effects on steroid synthesis in human, effects of dose on x, 25:46747

radioinduced damage to, of mice, relation of fetal malformation to x, 24:2790
radioisotope content of human, methods for determining effects of environmental contamination on cesium-137 and strontium-90, 24:48729
radioisotope content of, of rats following subcutaneous injection into mother, calcium-47, cesium-134, and strontium-85, 25:16000 (ORO-678, pp 14-24)
radioisotope diffusion across, of rats and sheep, 24:11908 (ORO-672, pp 21-2)
radioisotope transfer through human, following diagnostic use or radiation accidents, iodine-131, indium-113, radium-226, technetium-99, thorium-224, and xenon-133, 25:4673
radioisotope transfer through, to fetus, 25:32338
radioisotope transfer through, to fetus, review of mechanisms for, 24:4554
radioisotope transport across, following administration to pregnant rats, effects of gestation time on, 24:23074 (CONF-690501-, pp 153-60)
radioisotope transport across, in gravid cattle, sheep, and swine, 24:23068 (CONF-690501-, pp 9-23)
radium-228 transport across, following intravenous injection of Thorotrast into maternal rabbits, 24:23072 (CONF-690501-, pp 121-35)
scanning blood pools in human, comparison of effectiveness of indium-113m and technetium-99m for, 25:13516
scanning for localization in human patients using metastable indium-113, 24:48613
scanning for localization in man, use of metastable indium-113 for, 24:44494
scanning for localization of human, comparison of effectiveness of amniography with iodine-131-labeled RISA, 25:32498
scanning for localization of human, evaluation of metastable indium-113 for, 24:34455
scanning for localization of human, use of chromium-51-labeled erythrocytes or iridium-labeled or technetium-labeled serum albumines, 24:25535
scanning for localization of human, use of metastable indium-113 for, 24:23257
scanning for localization of human, using indium-113, 24:48632
scanning for localization using metastable indium-113 stabilized on gelatine at pH 4, 25:13502
scanning for localization, review of use of radioisotopes for, 24:44544
scanning of blood circulation in human, effectiveness of xenon-133 for, 24:48606
scanning of human, comparison of methods using metastable indium-113 or technetium-99 in combination with digital computer and scintillation camera for, 25:13517
scanning of human, evaluation of metastable technetium-99-labeled human serum albumin for, 24:32114
scanning of human, use of γ scintillation camera and metastable indium-113 for, 25:11228
scintigraphy for localization of, using metastable indium-113, 25:58060
strontium-89 uptake by, of sows following ingestion, 25:26594
strontium-90 transport across, in dogs, 25:23953(T) (AEC-tr-7195, pp 49-60)
thorium dioxide storage and uptake in yolk sac, of hamster, electron microscope study of, 24:21064

PLACENTAL TISSUES
analysis for radium-226, radiochemical, 23:7973(R) (NYO-3273-11)
analysis of, for trace elements, automated activation, 21:10254(R) (TEES-2671-5)
blood circulation in, of monkeys and sheep, tracer study of, 25:4655 (COO-1762-6)
cadmium-109 diffusion in hamster, following intravenous injection, effects of zinc on, 24:558
cerium-137 transfer across, in rats, 23:2850(T) (LA-tr-68-10)
cerium-144 transfer to offspring through, in pregnant mice, 21:6402 (IA-1082, pp 203-15)
cerium-144 transport across, of rats following injection, 22:30950
cesium-134 transport across, of rabbits, 22:38427(R) (ORO-659)
cesium-137 content of human, in Japan during 1969, 25:511
cesium-137 content of human, in Japan, relation of, to body burden, 22:45454
cesium-137 transfer by, to fetuses of pregnant guinea pigs and rats, 22:38329
cesium-137 uptake by, in pregnant females, effects of, on fetal irradiation, 23:24534
cesium-137 uptake through, by fetal mice, 23:14043
circulation of blood in sheep, chromium-51- and ytterbium-169-labeled microspheres for measurement of, 23:45625(R) (COO-1762-4)
copper-64 transport through, to human fetuses, 23:38404
effects on transfer of cesium-137 from rat dam to fetus, 24:576
iodine-125 content in rabbit, determination of, 21:20321(R) (ORO-653)
iodine-125 transport across, following injection into pregnant rabbits, 22:40827 (ORO-657, pp 3-10)
iodine-125 transport across, of rabbits and swine, 22:38427(R) (ORO-659)
iodine-131 content of fetal and maternal, in rabbits, comparison of, 22:10700
iodine-131 content of maternal, effects of, on protein-bound iodine in infants, 23:24563
iodine-131 distribution in rabbit, 21:10780
iodine-131 exchange in, of pregnant rabbits, 22:10687
iodine-131 metabolism in, following ingestion by gravid rats, 24:23312 (CONF-690501-, pp 45-62)
iodine-131 transport across, following injection into pregnant rabbits, 22:40827 (ORO-657, pp 3-10)
iodine-131 transport across, of rabbits and swine, 22:38427(R) (ORO-659)
ionic properties of, effects on fetal uptake of cesium-137 in guinea pigs and rats, 24:27518
localization during human pregnancy, use of iodine-131-labeled serum albumin for, 22:8589
localization in man using radioisotope sector counting and area scanning techniques, 23:18069
localization of human, by radiography or scanning, dose to fetuses from, 23:20415
localization of human, radioisotope tracer methods for, 23:38687
localization of human, use of technetium-99 and scintillation counters for, 22:31169
localization of human, use of technetium-99m for, 24:789
localization of, by external scintillation counting using iodine-131-serum albumin as tracer, 21:22449
localization using technetium-99-labeled albumin, 23:29644
location using iodine-125, comparison of, with use of iodine-131, 21:26542
neptunium-237 uptake by, following injection of pregnant rats, 22:30948
plutonium-239 uptake by, following injection of pregnant rats, 22:30948
polonium-210 uptake by mouse, autoradiographic measurement of, 21:20077
radiation dose to rats, following administration of tritiated corticosteroids, 21:24437
radiation effects on activity of lactic dehydrogenase in, of rats, x, 21:10761
radiation effects on blood supply of, of rats, repair of, 22:51953
radiation effects on coenzyme A content of, in rats, x, 23:29802
radiation effects on development of rat, x, 21:20362
radiation effects on distribution of isoamylases in, following maternal exposure, whole-body x, 23:7947
radiation effects on fat content of rat, x, 22:12897 (SZS-12/67)
radiation effects on immune reactions to injected, in mice, effects of age and strain of recipients on x, 21:6647
radiation effects on lipid balance in rat, x, 22:435
radiation effects on transport of iodine-131-labeled iodide and thyroxine in, of rats, γ, 22:47495
radiation effects on, in rats in comparison to fetal liver, cobalt-60 γ, 24:34097
radiation effects on, of mice, protective effects of vitamin E against γ, 23:41362
radiation effects on, of rats, effects of x, on tolerance of offspring to maternal skin grafts, 21:20341
radiodiagnosis of placenta praevia of, by photoscanning with technetium-99-labeled albumin, 22:40795
radiography of, genetic hazards from radiodiagnosis of placenta previa, 21:6638
radiography of, use of chromium-51-labeled erythrocytes for, 23:8044
radiography of, use of radioisotopes, 21:6548
radiography of, with radioisotopes, 21:12895
radioinduced changes in rat, x, 23:22356
radioisotope discrimination by, in favor of calcium, cesium-137 and strontium-90, 24:23070 (CONF-690501-, pp 97-104)
radioisotope distribution through, in guinea pigs, calcium-45, cesium-137, and iodine-125 and -131, 23:24535
radioisotope localization of, use of technetium-99-labeled sodium pertechnetate bound to human serum albumin and scintillation counting for, 21:39466
radioisotope permeability of, effects of chelation state and placental enzymes on, 23:24534
radioisotope scanning for localization of human, use of technetium-99-labeled pertechnetate and γ cameras for, 22:38359
radioisotope scanning of, hazards from, 23:16363
radioisotope sorption by, of mice, carbon-14 and tritium, 23:43663
radioisotope transfer across, in swine during early stages of gestation, cesium-134 and strontium-85, 23:9836 (ORO-661, pp 16-18)
radioisotope transfer in cat, calcium-45 and strontium-85, 23:33595 (PHS-PUBL.-1809, pp 59-88)
radioisotope transport across, in rats, discrimination among homologous elements in, 24:4548 (CONF-690501-7)
radioisotope transport across, of guinea pigs, comparison of rates of, 24:567
radioisotope transport across, of rats, effects of fetal age on rate of barium-133, beryllium-7, calcium-47, and strontium-87, 23:7931 (ORO-2401-13)
scanning for localization in man using indium-113-labeled human serum albumin and scintillation cameras, 23:38691
scanning for localization of human, comparison of iodine-132 and ultrasonic technique for, 23:50676
scanning for localization of human, evaluation of technetium-99m-labeled albumin for, 23:50679
scanning for localization of human, using iodine-131 or technetium-99m, 23:50717
scanning for localization of, in humans, comparison of radioisotope and ultrasound methods for, 23:50683
scanning for localization of, in man, use of technetium-99-labeled human serum albumin and intravaginal radioisotope marker for, 23:50661
scanning for localization of, in rabbits and rats using iodine-131-labeled human serum albumin, 23:38690
scanning for localization of, using indium-113, iodine-131-labeled albumin, or technetium-99m-labeled albumin, 23:50697
scanning for localization of, using iodine-131-labeled serum albumin, linear, 23:26843
scanning for localization using indium-113, 23:33764
scanning for localization using indium-113, 23:33765
scanning for localization using indium-113 colloids, 23:50721
scanning for localization with iodine-131-labeled serum albumin, indium-113, or technetium-99 in human patients, 23:50698
scanning for localization with technetium-99m-labeled-albumin and ultrasound in human patients, 23:50691
scanning in man using chromium-51-labeled erythrocytes, 22:33861
scanning of human, hazards to fetus following, 23:24759
scanning of human, use of technetium-99 in, 23:43813
scanning of pregnant human, use of technetium-99m-albumin for scintigraphic, 21:22522
scanning of, use of inhaled carbon-11-labeled carbon monoxide for, 23:38640
scanning of, use of iodine-132-labeled human serum albumin for, 23:38657
scanning of, use of strontium-87 or technetium-99-labeled pertechnetates and γ camera for, 23:38698
scanning of, use of technetium-99 for, 23:38660
scanning of, use of technetium-99m-labeled serum albumin and γ cameras, 23:38644
scanning using indium-113 m, 21:18090
scanning using technetium-99 and gamma cameras, 22:25940
scanning using technetium-99m, 23:33774
scanning using technetium-99m-labeled albumin, 23:50736
scanning with technetium-99 for diagnosis of placenta previa, 23:29607(T) (TT-68-50001/1, pp 111-15)
scintiscanning in man, using indium-113m and technetium-99m, 23:48152
scintiscanning in man, using technetium-99-labeled albumins, 22:49398
scintiscanning of, advances in digital, 21:28563
scintiscanning using technetium-99-labeled serum albumin, 22:25936
strontium-85 transfer in, from mother to fetus in mice, 21:22320
strontium-85 transfer through, to fetuses of mice, 22:450
strontium-85 transfer to fetuses of mice through, 22:36193
strontium-85 transport across, of rabbits, 22:38427(R) (ORO-659)
strontium-90 content of human, in Germany from 1958 to 1966, 22:33808 (BMwF-FBK-67-70)
strontium-90 transfer by, to rat offspring, 21:41350
strontium-90 transfer through, of dogs to offspring, 21:45570
strontium-90 transfer to fetuses through, of cattle in relation to calcium content of diet, 23:24509
transfer of tritium oxide across, in pregnant rats, 23:18039
tritium-labeled water transfer through, from maternal blood, 21:6460
uranium oxide diffusion across, of dogs and rabbits following intratracheal injection or oral administration, 25:4446
uranium-233 uptake by, following injection of pregnant rats, 22:30948
use of chromium-51-labeled erythrocytes to locate, in man, 23:2882
use of technetium-99m-labeled human serum albumin for detection of human, 23:2883
use of technetium-99m-labeled human serum albumin for detection of human, 23:2884

PLACER DEPOSITS
crater formation in, from high explosive and nuclear explosions, scaling relations between, 24:41559 (CONF-700101-(Vol.2), pp 1701-25)
effects of physical properties of surrounding, on size of underground explosion-produced craters, (E/T), 24:50490
location and types of underground, in central Nevada, well logging data on, 23:43402 (USGS-474-2)
radioisotope content of Los Alamos, N. Mex. area stream bed, plutonium-238 and plutonium-239, 25:15762 (LA-4561)
seismic wave propagation through, effects of geologic conditions on, 23:15989

Planaria (Dugesia)
see Dugesia under Platyhelminthes

PLANETARY NEBULAE
angular momentum transport in, (T), 22:2720
atmosphere of central stars of, bolometric corrections for, (T), 22:2747
atmosphere of, bolometric corrections for, (T), 22:2747
atmospheres of central stars of, model, (T), 22:8875
atmospheres of central stars of, model, (T), 25:27314
atomic energy level transition probabilities in, forbidden nitrogen and oxygen, (E/T), 25:14107
book: Planetary Nebulae, 24:32532
carbon monoxide radio emission at 2.6 mm from IRC + 10216, (E), 25:11568
central-star properties of, (T), 23:22721
central-star temperatures in, (T), 24:23575
classification of symmetrical, morphological, (T), 25:16665
classification system for, (E), 22:17272
classification system for, (E), 22:17272
composition of, (E), 24:35033
condensations in, formation of, (T), 25:35631
condensations in, life spans of neutral, (T), 25:55702
conference on, (T), 23:22721
data on, basic, (T), 23:22721
densities, masses, and space densities of, (T), 22:47748
dimensions of southern, (E), 21:36984
discovery of new, (E), 25:45207
distance estimates for 26, (E), 25:24699
distance scale for Seaton's, (T), 22:34165
distances of 600, (E), 25:13827
distances of, (T), 23:27232
distribution in open star clusters, (E), 25:19321
distribution in space, effects of galactic magnetic field on, (E), 24:23570
distribution of, (E), 25:13827
dust—radiation instability in, (T), 25:8999
dust-radiation instability in, (T), 25:35688
dusts in, light scattering by, (T), 24:12591
electron densities and temperatures in bright, (E), 25:47230
electron densities and temperatures in, (E), 25:27338

electron densities in, (E), 24:35045
electron density and temperature in IC 418, NGC 6572, and NGC 7027, (E), 24:19562
electron density and temperature in NGC 6826, (E), 25:52513
electron density and temperature in NGC 7027, (E), 24:51254
electron spectra in, relativistic, (E/T), 24:21456
electron temperature and electron density for IC4997, (E), 22:43702
electron temperature gradient in, (T), 22:43719
electron temperatures and densities in NGC 7662, (E/T), 25:22252
electron temperatures and densities in, (E/T), 25:22252
electron temperatures for eight, (E), 21:46061
electron temperatures for, (E), 22:36659
electron temperatures in, (T), 24:27925
electron temperatures in, (T), 22:34210
electron temperatures of IC 418, (E), 24:27924
electron temperatures of, from Balmer decrements, (E), 22:36660
electron temperture of two, (E), 22:8956
element abundance in NGC 7662 and IC 418, neon, nitrogen, and oxygen, (E), 24:19538
element abundances in 13, (E), 25:52514
elemental abundances in halo, (E), 23:48589
emission mechanisms for, (T), 24:23575
emission-line intensities in, (E), 22:826
evolution from combination variable stars, (T), 24:17469
evolution into white dwarfs, (T), 21:46041 (N-67-18355)
evolution of central stars of, (T), 22:13149
evolution of central stars of, (T), 25:47200
evolution of, (E/T), 22:8887
evolution of, (E/T), 22:8887
evolution of, (T), 22:13149
evolution of, effects of dust and Lyman-α radiation on, (E/T), 25:27323
evolution toward white-dwarf stage, (T), 23:51196
expansion of envelopes of, (T), 25:9013
expansion velocities of NGC 6853 and IC 3568, (E), 25:839
FG Sag, ejection of second shell from, (T), 23:39138
fluid motions in, (T), 23:27209 (AD-680415)
flux densities at 5 GHz, (E), 21:39748
formation around AG Pegasi, (E), 21:33098
formation from HBV 475, (E), 24:44855
formation in highly evolved stars, (T), 25:16656
formation of, (T), 24:17460
formation of, (T), 21:39770
formation of, (T), 22:43826
formation of, mechanisms for, (T), 24:17444
gravitational instabilities in, (T), 25:35631
He 1-5, photoelectric observations of brightness fluctuations of, (E), 23:36322
helium 2^3S state depopulation in planetary, (T), 22:857
helium abundances in, (E/T), 25:58446
helium doubly excited auto-ionizing in, depopulation mechanism for, (T), 22:13197
helium singlets in, capture-cascade intensities of, (T), 25:40205
helium spectrum in, neutral triplet, (E), 22:2768
helium triplet spectrum in expanding, (T), 22:17223
hydroxyl emission from NGC 2438, anomalous, (E), 25:35698
IC 3568, spectral line intensities for, (E), 23:20570
IC 418, detection of the 12.8-μ Ne^+ emission line from, (E), 23:14454
IC 418, radio spectrum of, (E), 23:22749
IC 4642, spectral line intensity variations in, (E), 23:14446
IC 5217, spectral-line intensities for, (E), 23:48590
identification of NGC 7635 as, (E), 25:43044
identification of YM 29 as, (E), 25:9047
infrared emission from eight, (E), 23:39081
infrared emission from graphite grains in, (E), 23:22742
infrared emission from NGC 7027, (E), 22:52374
infrared emission from NGC 7027, (E), 22:5003
infrared emission from young dust-filled, (T), 25:52515
infrared emission from, (T), 25:47198
infrared emission from, NGC 7027, (E), 22:5003
infrared line emission from, (E), 25:19327
infrared observations of BD 30°3639 and NGC 6572, (E) , 24:19568
infrared observations of IC 4997, VV 8, and FG Sge, (E), 25:11569
infrared observations of NGC 7027 and IC 418, (E), 25:13826
infrared spectrophotometry of, absolute, (E), 23:36323
infrared spectroscopy of IRC+10216, (E), 24:8259
infrared-line emission from, (T), 21:46050
inhomogeneities in, (E/T), 25:2837
ion population inversions in, (T), 24:1133
ionization stratification in model, (T), 22:36630
ionization stratification, (T), 22:34210
ionization structure of, (T), 22:17305
ionization structure of, (T), 21:24879
ionization structure of, heavy element effects in, (T), 24:15042
K3-50, radio observations of, (E), 23:39154
light absorption for, interstellar, (E), 22:52457
light absorption for, interstellar, (E), 22:52457
light polarization from, elliptical, (E), 25:35618
luminescence in, stratification of, (T), 22:8915
luminosity of, (T), 22:13130
Lyman-line decrements in low-density, (T), 23:14431
M3-27, spectrophotometry of super-dense, (E), 23:16563
magnitudes of, in Milky Way and Magellanic Clouds, (E) , 23:30235
mass ejection by radiation pressure in, (T), 25:30044
mass ejection by radiation pressure, (T), 24:17460
mass, radii, distances, electron densities, radio emission, and temperatures of, (T), 22:31581
matter emission from, (T), 25:9013
model for IRC + 10216, (E), 25:55686
model for NGC 7662 and NGC 7009, axially symmetric, (E), 25:840
model for, Bowen fluorescence mechanism in, (T), 23:48673
model for, computer, (T), 22:11187
model for, computer, (T), 22:11187
models for young dust-filled, (T), 25:52515
models for, (E/T), 25:35668
models for, (T), 24:35056
models for, computer, (T), 24:15042
models for, spatial and kinematic, (T), 22:41240
models of carbon-rich stars for, (T), 23:14437
models of NGC 7662 and IC 418, 24:19538
models of, dynamical, (T), 22:29024
morphology and kinematic study of NGC 6720 and NGC 6853, (E), 25:9048
morphology of unclassified and peculiar, (E), 22:26113
NGC 1514, photoelectric observations of brightness fluctuations of, (E), 23:36322
NGC 4361, abundance of Ne IV, Ne V, and O III in, (E), 23:44042
NGC 4361, electron temperature of, (E), 23:44042
NGC 4361, spectrophotometry of, (E), 23:44042
NGC 5189, emission-line spectrum of, (E), 23:48593
NGC 6857, radio emission from vicinity of, (E), 23:34199
NGC 6857, radio observations of, (E), 23:39154
NGC 7027, radio spectrum of, (E), 23:22749
NGC 7293, electron temperature in, (E), 23:48606
NGC 7293, model for fine radial filaments in, (T), 23:41784
NGC 7293, ratio of Hα to NII lines in, (E), 23:48606
NGC 7662, ionization stratification and chemical abundances in, (E), 23:36305
observations of, (T), 23:22721
optical depth of two, (E), 22:8956
optical fluxes from, Hβ, (E), 24:19548
orientation of axes of, spatial, (E), 24:42374
origin and evolution of, (T), 23:22721
origin and properties of, review on, (T), 24:6295
origin of, in carbon-12 stars, (T), 23:36302
origin of, role of helium shell-burning stars in, (T), 22:862
parameters of BD+30°3639, (E), 24:35011
parameters of two, with Wolf—Rayet nuclei, (E), 25:32927
parameters of, (E), 24:35033
parameters of, physical, (T), 22:29086
photography of NGC 7009, narrow-band filter, (E), 25:35643
photometry of southern, (E), 25:40222
photon emission from metastable state of He II in, two-, (E), 23:48587
physical parameters of, review, 23:44147
physical processes in, (T), 23:22721
polarization of continuum background in, (T), 23:22722
position correlation with x-ray sources, (E), 23:22767
production from carbon-12 stars, (T), 24:10232
production of, by FG Sagittae, (E), 22:43771
production of, by shell burning in carbon-12 stars, (T), 23:18308
proper motions and space velocities of absolute, (E), 22:41159
properties of, (T), 22:49961
properties of, (T), 23:27232
properties of, (T), 22:49961
radiation densities in, Lyman-α, (T), 22:856
radii of, relation to expansion velocities, (E), 25:24699
radio component detection in NGC 7027, (E), 24:44885
radio emission at 408 MHz from fourteen, (E), 22:4927
radio emission at 6 and 11 cm from, detection of, (E), 23:51234
radio emission characteristics at 10 and 21 cm, (E), 21:26945
radio emission from 121, (E), 25:58544
radio emission from neutral hydrogen in, search for, (E), 24:23599
radio emission from sixty-eight, (E), 22:34136 (AD-663168)
radio emission from, nonthermal, (E/T), 24:21456
radio emission from, search for H109α recombination line in, (E), 24:19614
radio emission from, survey of high-frequency, (E), 23:14476
radio flux densities at 10 cm for, (E), 22:846
radio flux densities at 8.0 and 16.2 GHz, (E), 24:19562
radio fluxes from, (E), 24:19548
radio observations at microwave frequencies of, (E), 22:8873
radio observations at microwave frequencies, (E), 22:8873
radio observations of, (E), 25:11567
radio observations of, (E/T), 25:35668
radio observations of, at 2 cm, (E), 25:8996
radio recombination line in NGC 7027, (E), 25:35642
radio spectrum at 5 GHz of NGC 7027, (E), 24:51254
radio structure of NGC 7027, (E), 25:6978
radio-wave absorption profile for K3-50, 21-cm, (E), 24:17526
reddening curves for, (E/T), 23:14477
resonance radiation transport in atmospheres of, (T), 24:42472
search for, in northern Milky Way, (E), 24:17461
shell ejection mechanism, (T), 25:6951
shell formation in FG Sge, (E), 25:11574
southern, masses and galactic distribution of, (E), 23:30236
specra of YM 29 at 318 and 606 MHz, (E), 25:35630
spectra from 0.4 to 15 GHz of K3-50, (E), 24:44884
spectra in, Hβ, O I, and N II, (E), 25:30115
spectra of 32, in range 4600 to 5900 A, (E), 24:46885
spectra of BD+30°3639, (E), 24:35011
spectra of HD 184738, comparison to star BD + 30°3639, (E), 25:19310
spectra of high-latitude, (E), 22:4973
spectra of hydrogen and helium in, recombination, (T), 24:6300
spectra of IC 2003, NGC 2022, and CD-23°12238, line-intensity data for, (E), 24:35035
spectra of IC 418, emission-line profiles in, (E), 24:19569
spectra of IC 418, NGC 6857, and NGC 7027, at short radio wavelengths, (E), 25:32913
spectra of MHα 328-116, continuum, (E), 24:44861
spectra of NGC 6210, (E), 25:6987
spectra of NGC 6857, optical radial velocity for, (E), 24:51291
spectra of NGC 7009, (E), 25:35643
spectra of NGC 7027 and NGC 7662, high-n Balmer lines in, (E), 25:30078
spectra of NGC 7027, detection of 10.5-μ line emission in, (E), 24:46886
spectra of NGC 7027, H109α radio recombination, (E), 24:25837
spectra of NGC 7027, profile of He I 10830-A line in, (E), 25:6950
spectra of NGC 7027, Stark broadening and radio recombination lines in, (E/T), 25:13814
spectra of NGC 7662, (E), 25:58516
spectra of NGC 7662, helium 10830-A line in, (E), 24:51290
spectra of NGC 7662, IC 418, and NGC 2392, infrared, 24:23585
spectra of nuclei of, classification of emission-line, (E), 23:48593
spectra of sixteen central stars of, power, (E/T), 25:19309
spectra of V1016 Cyg, identifications and intensities in, (E), 24:19583
spectra of, (E), 22:38713
spectra of, [OI] lambda6300 emission in, (E), 24:19570
spectra of, (T), 24:30080
spectra of, absolute emission-line intensities in, (E), 23:25029
spectra of, Bowen-line intensities in, (E), 24:17459
spectra of, detection of O VI doublet in, (E), 25:16642
spectra of, excitation by resonant scattering of radiation from central stars, (T), 22:29073
spectra of, He I lambda 10830 line in, (E), 22:52392
spectra of, helium and hydrogen lines in, (E), 25:55700
spectra of, line intensities in, (E), 24:46886
spectra of, Lyman lines in, (T), 25:7012
spectra of, neutral helium in, (E), 25:9046
spectra of, population of 2^3S level of helium in, (T), 25:9016
spectra of, radial velocities in, (E/T), 24:42358
spectra of, recombination, (T), 24:17468
spectra of, relative intensities of Bowen lines in, (E), 24:19534
spectra of, review of forbidden lines in, 23:44147
spectra of, ultraviolet, (T), 22:8914
spectral continuum absorption by heavy ions in high-excitation, (T), 23:20578
spectral emission-line intensities in NGC 2440, (E), 22:13184
spectral line intensities in NGC 7027, (E), 25:52525
spectral lines in, forbidden, (T), 24:27925
spectral profiles of [O III] 5007-A line in NGC 6853, (E), 25:45205
spectral rf recombination lines from carbon in, (E/T), 24:4918
spectrophotometry of high-excitation NGC 6741, (E), 24:17479
spectrophotometry of NGC 6309, NGC 70026, and IC 1147, (E), 25:6949
spectroscopic data for NGC 6826, (E), 25:52513
spectroscopy of, far-infrared, (T), 24:10228
spectroscopy of, ultraviolet, (T), 24:10228
spectrum near 1 micron of NGC 6543, (E), 22:41187
star classification of, central, (T), 24:25829
stars in, atmospheres and extended envelopes of central, (E), 23:39086
stars of, atmospheres for central, (T), 24:25841
stars of, extended model atmospheres for central, 25:35624
structure and dynamics of, (T), 23:22721
structure in, effects on ionization of small-scale, (E), 25:30115
structure of, spatial, (T), 22:26114
structure of, spatio-kinetic, (E), 22:38713
survey of southern, (E), 21:37042
temperature of central stars of, (T), 22:8914
temperatures of central O and Of stars of, effective, (E), 25:45172
temperatures of central stars of, effective, (T), 22:21821
thermal instability in presence of Hall current in, (T), 23:39073
thermal stability of model, (T), 22:36630
velocity of central star of NGC 3132, radial, (E), 25:11570
x-ray emission from, mechanisms for, (T), 24:15035
x-ray generation in free—free transitions in, (T), 24:51246 (N-70-27347)

PLANETS
see also Asteroids
see also Earth
see also Jupiter (planet)
see also Mars (planet)
see also Mercury (planet)
see also Neptune (Planet)
see also Pluto (Planet)
see also Saturn (planet)
see also Uranus (Planet)
see also Venus (planet)
analysis of surface materials by alpha scattering, (T), 21:24890(R) (N-67-12180)
analysis of surface materials using thermal-neutron-capture gamma rays, (E), 22:31533
analysis of surfaces of, for various elements by neutron inelastic scattering, 23:13655 (UCRL-14654(Rev.1))
analysis of surfaces of, using pulsed 14-MeV neutron-produced thermal neutron capture gamma rays, 21:35866
asteroid capture by, (T), 24:23609
atmosphere formation for terrestrial-type, (T), 22:52311 (BNL-50114)

- atmosphere of, alpha radiometric system for density measurement of, 24:7663(R) (N-69-38649)
- atmosphere of, ionization of cosmic and solar radiations in, (T), 25:16738
- atmosphere of, solutions of radiative transfer equations for, (T), 23:14597
- atmospheres of, absorption integrals of, (T), 22:41263
- atmospheres of, atomic and molecular processes in upper, (T), 21:9331
- atmospheres of, dynamic particle—spin orientation in, (T), 25:2831
- atmospheres of, ionization by penetration of energetic charged particles, (T), 25:55983
- atmospheres of, nonconservative Rayleigh scattering in, (T), 25:35826
- atmospheres of, problems involving atomic collision processes in, 21:46135
- atmospheres of, properties of, (T), 23:44239(R) (AD-683336)
- atmospheres of, radiative transfer by doubling very thin layers, (T), 23:14596
- atmospheres of, solar flare-associated ion-pair production rate in, (T), 25:49695
- atmospheres of, solar-wind interactions with, (T), 23:48838
- atmospheric evolution of, hydrodynamic and thermodynamic, 21:18367 (UCRL-50001-66-1, pp 54-66)
- atmospheric properties of, from inversion of occultation data, (T), 23:1154
- atmospheric structure of, 24:27905
- bibliography on 1966 Soviet studies on, 22:17461(T) (JPRS-44343)
- book: An Introduction to Astronomy: Planets, Stars, and Galaxies, 22:24022
- book: Introduction to Space Science, 22:19898
- book: Introduction to Space Science. Second Edition, 23:22707
- book: Physics of Planets, 22:43673
- book: Planets and Satellites: World of Space, 23:20659
- book: Radar Astronomy, 22:31592
- composition and physical characteristics, review of, 24:28031
- composition of terrestrial, (T), 24:15124
- composition of, chemical, (T), 25:43078
- condensation in solar system, (T), 25:24808
- condensation of, (T), 22:13125
- conference on atmospheres and surfaces of, Woods Hole, 8-69, 24:35144
- conference on infrared astronomy, (T), 23:6794
- conference on interior of, Newcastle upon Tyne, England, 3/67, (T), 24:30124
- conference on moon and, 22:2773
- contamination during exploration, model for deriving requirements for preventing, 21:38844 (SC-RR-67-462)
- cosmic gas in interplanetary region, theory for, 23:10471
- cosmic-radiation depth distribution in surface of, calculation of, 22:4940
- densities of terrestrial, (T), 24:15124
- detection of systems of, photometric method for, (T), 25:38056
- effects of solar-tide induced by, on activity cycle, (T), 22:29048
- effects on large-scale distribution of solar activity, (E), 25:58611
- effects on period variations of pulsars, (T), 24:35078
- effects on solar activity cycles, (T), 23:41858
- effects on solar activity, (T), 25:58570 (N-71-14166)
- effects on solar activity, joint tidal, 21:590
- effects on sunspot cycle, (T), 21:22951
- effects on sunspots, (T), 25:19427
- effects on wave motions in solar atmosphere, (T), 25:40269
- elements in interior of, behavior of light, (T), 25:45162
- environments for manned exploration, 21:3702 (N-66-29456)
- evolution of terrestrial, (T), 25:35825
- evolution of, model for, (T), 25:4921
- evolution of, nonsaturation of gravitational forces in, 23:30819
- exobiology survey of Pluto and Jovian, (T), 25:35829
- experimental program on terrestrial, proposed, (T), 23:44148
- formation around R Monocerotis, infrared evidence for, 21:9267
- formation from charged bodies ejected from Sun, (T), 25:58591
- formation in epsilon Aurigae eclipsing binary, (E/T), 25:30083
- formation in hot solar centrifuge, (T), 25:33047
- formation in inner solar nebulae, fractionation processes for, (T), 25:47270
- formation in nebulae surrounding young stars, (T), 25:24717
- formation of solar system, (T), 21:11340
- formation of systems of, around young stars, (T), 24:21461
- formation of systems of, computer simulation of, (T), 25:30178
- formation of systems of, from rapidly rotating main-sequence stars, (T), 22:866
- formation of terrestrial, segregation of material in, (T), 25:38098
- formation of, (T), 21:46043 (N-67-18360)
- formation of, (T), 22:19721
- formation of, (T), 24:51348
- formation of, (T), 25:914
- formation of, (T), 25:16690
- formation of, critical velocity hypothesis in, (T), 22:13098
- formation of, dimensions of gaseous ring prior to, (T), 24:37173
- formation of, floccule theory of, (T), 25:58586
- formation of, in association with newly formed neutron stars, (T), 24:12534
- formation of, in primordial solar nebula, (T), 25:24790
- formation of, mass distribution during, (T), 25:35832
- formation of, review of theories on, 22:26161
- formation of, use of fossil particle tracks in study of, 22:15314
- formation, gravitational instability of differentially rotating gases in, 21:29307
- gravitational capture of cosmic dust by, (T), 21:33089
- gravitational radiation from orbiting, theory of scalar, 22:5658
- heating by dynamo induction from pre-main sequence T Tauri solar wind, (T), 22:45859
- heating by solar wind in T Tauri phase of solar evolution, (T), 24:37092 (N-70-23526)
- heating of, solar-wind, (T), 24:39790
- hydrogen abundance in atmospheres of, molecular, (T), 22:7120
- hydrogen isotopes in coronae of terrestrial, (T), 25:24835
- infrared emission from atmosphere of, nonequilibrium, (T), 24:21516
- infrared emission from, (T), 24:25820
- interiors of terrestrial, structure and composition of, (T), 24:30126
- ion exosphere with variable conditions at baropause, (T), 23:18374
- ionosphere of, ionization of cosmic and solar radiations in, (T), 25:16738
- ionospheres of, beaming of electromagnetic radiation by, (T), 25:945
- ionospheric analysis for, research on, 21:31310 (NASA-CR-689)
- ionospheric electron density measurements for, 24:17854
- ionospheric parameters of, method for computing the distribution of, (E/T), 23:10554
- iron abundance in terrestrial, (T), 24:30126
- Kepler problem for, classical scalar fields theories for relativistic, (T), 25:17549
- life on, method based on catalysis of isotopic oxygen exchange for detection of extraterrestrial, 21:20042
- magnetic activity around conjunction and opposition of, (E), 21:39790
- magnetic fields in, origin and properties of intense, (T), 25:40227
- magnetic fields in, origin of, (T), 25:9129
- magnetic fields of, (T), 22:43692
- magnetic fields of, (T), 23:12695
- magnetic fields of, solar plasma interactions with, 21:33267
- magnetic fields of, survey of origin of, 23:14694
- magnetic fields of, test of Blackett hypothesis for, (T), 22:21792
- magnetic fields of, turbulent motion analysis for origin of, (T), 22:8929
- magnetic fields, turbulence caused dynamo mechanism for, 21:662
- mantles of terrestrial, conference on, 22:26196
- mass losses from, around NP 0532, (E), 25:24751
- mass ratio for, gravitational-to-inertial, 25:31009
- masses of, in pulsar systems, (T), 25:24767
- modulation of geomagnetic activity by, (T), 21:39887
- motion around fixed massive sun, equations of, 24:20232
- motion equations for perhelion advance and deflection angle of, (T), 21:46444
- motion in linear theory of gravitation, 22:50464
- motion of Pales (49), use in determining mass of Jupiter, (E), 25:35823
- motion of, geodesic equation in quaternion representation of general relativity for, 24:21513
- motion of, Kepler's third law for, (T), 22:43749
- motion of, quaternion representation of general relativity theory for gravitation and electromagnetism for, 22:29765
- orbit of Icarus, use in testing of general relativity, (E/T), 25:49691
- orbits for hypothetical trans-Neptunian, 24:18864(T) (UCRL-Trans-10431)
- orbits of, effects of general relativity on, (T), 22:8897
- orbits of, equilibrium solutions of secular variations in restricted three-body problem for, (T), 25:12057
- orbits of, momentum and angular momentum in general relativity theory for, 24:15676
- orbits of, of pulsars, (T), 24:12553
- orbits of, solar wind and, (T), 22:2753
- orbits of, torsion effects on perihelion motion of, (T), 25:59605
- origin and evolution of systems of, (T), 25:40334
- origin of, (E), 23:22709
- perihelion advance of, and solar oblateness, (T), 22:8924
- perihelion advance of, calculation of, 23:1700
- perihelion motion of 1566 Icarus, effects of solar charge on, (E/T), 25:35733
- physical characteristics of, (T), 22:43673
- physics of the system of, (T), 21:11338(T) (NASA-TT-F-342)
- plasma flow past, interplanetary, (E/T), 25:9348
- precession in gravitation theory, general relativistic correction for, 22:22456
- quasiperiodic solutions of first kind in plane n-body problem, (T), 22:45897
- radar studies of, (T), 22:31592
- radiation belts and magnetic fields of, estimates of, 21:9437
- radiation emission from, characteristic x- and γ-, (E/T), 24:32609
- radiation environment of, determination of resistance of bacteria to uv, 21:36762(T) (N-67-18938)
- radiation environments for grand tour missions, 24:6341
- radiation scattering in atmospheres of, curves of growth for reflection spectra, (T), 24:37174
- radiative transfer in atmosphere of, Rayleigh-scattering analysis of, (T), 22:17238
- radiative transfer in atmospheres of, (T), 23:12515
- radiative transfer problem in atmospheres of, model for, (T), 23:6766
- radio emission from, (E/T), 25:7034
- radio observations of, in short-microwave region, 24:4914
- Raman scattering in atmosphere of, rotational, (E), 23:8432
- research during 1965, NASA achievements in, 21:18366 (NASA-SP-136)
- research on, developments in, (T), 25:49597 (CONF-690732, pp 8.1-37)
- research on, USSR during 1969, 24:45087(T) (JPRS-51308)
- rotation of, due to solar wind, (T), 22:36859
- rotation of, test of Blackett hypothesis for, (T), 22:21792
- rotation of, test of Blackett hypothesis for, (T), 22:21792
- rotational motion in general relativity of, equations for, (T), 23:16625
- samples of, spectral analysis methods for, 21:36109
- soil analysis using capture and activation analysis techniques, 24:5641
- soil analysis using gamma probes, 24:5642
- soil analysis using x and gamma rays, spectral method for, 24:5640
- solar activity modulation by, (T), 22:29044
- solar wind activity in interplanetary space, forecasting of, (T), 21:14940
- solar wind interaction with, (T), 22:19712
- solar wind interactions with, dynamo effects from, 22:52627
- solar-wind interaction with, generation mechanisms of electric and magnetic fields from, (E/T), 25:40491
- solar-wind interactions with ionospheres of field-free, (T), 25:24958
- solar-wind interactions with ionospheric of, models for, 25:36011
- solar-wind interactions with, (T), 22:24167
- spectra from 1.35 to 4.10 μ, (E), 24:19555
- spectra of, inversion of limb-darkening equation using Prony algorithm, (T), 22:26130
- strontium isotope abundances in materials at time of formation of, (E), 23:22712
- structure and surface of, (T), 23:20659
- surface analysis by alpha scattering, 24:31251
- surface analysis by neutron inelastic scattering, 24:27008
- surface analysis of, by neutron activation, 25:26188 (BNWL-SA-3803)
- surface analysis of, using neutron die-away methods, 21:36108
- tidal effects on solar activity, (E), 24:35108
- Uranus magnetotail models with dipole axis parallel to solar wind, (T), 25:35828
- use of small, in pulsar model, (T), 22:41275
- x-ray fluorescence spectra of atmospheres of, (T), 25:947

PLANKTON

(Minute, free-floating water plants and animals.)

see also Chaetognatha

see also Protozoa

- alpha activity in, in environs of Safari I, 21:10878(R) (PEL-123)
- analysis for cadmium by neutron activation, 25:31880
- analysis for calcium, manganese, and sodium by neutron activation and γ spectrometry, 24:162
- analysis of, from Gulf of Naples and from Moroiso Cove in Japan by emission spectrography, 21:10250 (EUR-2771.d)
- barium uptake by, in Bahamas region, 21:41050
- beta activity in, in environs of Safari I, 21:10878(R) (PEL-123)
- calcium uptake by, in Bahamas region, 21:41050
- carbon-12 content of, off coasts of Ecuador and Peru, 22:40609
- carbon-13 to carbon-12 ratio in, from Atlantic and Pacific Oceans, 21:10760
- carbon-14 content of, at surface of Pacific Ocean, 23:50404(R) (UCSD-10-P-20-50(Pt.1))
- carbon-14 metabolism by, efficiency of liquid scintillation and Geiger—Mueller detectors for measuring, 22:38000
- carbon-14 specific activity in total carbonate of, 22:43311(R) (PRNC-85)
- carbon-14 uptake by, in Puerto Rico, 23:12044 (PRNC-60)
- cerium-144 content of, in Black Sea during 1966, 22:8550
- cesium-133 content of Colorado lake cesium kinetic studies on aquatic ecosystems from, 25:21615 (COO-1156-40, pp 12-16)
- cesium-137 content in aquatic, under conditions of nuclear warfare, 21:20233 (NP-16462)
- cesium-137 content of, in Black Sea during 1966, 22:8550
- cesium-137 content of, in Finland, 21:41378 (CONF-660827-2)
- cesium-137 content of, in lakes of Finland during 1964 and 1965, 23:12109
- cesium-137 uptake by, in Baltic Sea, 21:36582 (SFL-A-9)
- chemical composition of nitrogen- and phosphorus-deficient phyto-, 21:32077(R) (UCSD-34-P-108-55(Pt.1))
- chlorophyll production by, in Oyster Bay, Jamaica, 21:45499(R) (NYO-3480-3)
- chromium-51 content in, in Columbia River, 21:28338(R) (BNWL-353(Rev.))
- cobalt content of, in waters of Eniwetok Atoll, 21:43416
- collection at Institute of Marine Resources, San Diego, California, 23:50404(R) (UCSD-10-P-20-50(Pt.1))
- composition of phyto-, from Tvaeren Bay of Baltic Sea, 22:53489 (AE-327)
- contamination of, in Adriatic and Ligurian-Tyrrhenian seas by fallout, 21:8827
- content of acantharian, in Atlantic Ocean, 21:28411 (IAEA-2607-13)
- content of copper, manganese, and zinc in Sea of Azov, 23:24575 (A-AC-82/G/L-1243, pp 11-20)
- content of North Pacific Ocean in vicinity of Aleutian Islands, 23:13598 (BMI-171-112)

distribution in Gulf of Maine during September 1966, 21:47023(R) (NYO-1918-148 and App. A and B)
distribution in Oyster Bay, Jamaica, 21:45499(R) (NYO-3480-3)
distribution of zoo-, in relation to chlorophyll concentration, vertical, 25:26109 (RLO-1725-188)
distribution off coast of Washington and Oregon during 1961—2, 24:33598 (RLO-1725-169)
ecology in Columbia River estuary, 21:39373(R) (RLO-1750-22(Vol.1))
ecology in Pacific Ocean, 24:11893(R) (UCSD-10-P-20-52(Pt.2)(Vol.2))
ecology of acantharian, 21:28411 (IAEA-2607-13)
ecology of Amchitka Island, Alaska, freshwater, effects of Milrow nuclear test on, 25:49135
ecology of estuarine and river, 21:1725 (ORNL-3946)
ecology of marine, adjacent to Amchitka Island, Alaska, during 1967, 25:49138
ecology of phyto- and zoo-, of Oyster Bay, Jamaica, 23:2804(R) (NYO-3480-10)
ecology of, data from Aesop cruises 1 through 12 on, 24:53052 (NYO-3497-24)
ecology of, off La Jolla, Calif., April—Sept., 1967, 25:15468 (UCSD-10-P-20-54)
element content in, in Puerto Rico, 22:43311(R) (PRNC-85)
fallout concentration by, 21:18017
fallout monitoring of, in Adriatic Sea and Ligurian Sea during 1960 to 1968, 23:29484
fallout monitoring of, in Osaka Bay since 1962, 24:48552
fission product content of, in Black Sea, 21:39419
fission product uptake by, in Pacific Ocean after nuclear tests, 21:14578
fission product uptake by, in sea, 21:14590
growth of marine, effects of heated effluents on, 24:29730
ingestion by grazing animals, factors affecting, 21:32077(R) (UCSD-34-P-108-55(Pt.1))
iodine-131 content of, in Wisconsin lakes, 22:38236 (COO-1281-6)
iron-55 content of, in Finland, 21:41378 (CONF-660827-2)
iron-59 content in, in Columbia River, 21:28338(R) (BNWL-353(Rev.))
lead-210 content of, in Finland, 21:41378 (CONF-660827-2)
manganese uptake by, in Bahamas region, 21:41050
method for obtaining freshwater, 24:162
migration of Pacific Ocean, Operation Wigwam studies of, (E), 22:10409
number and size distribution of cells of, automatic counting using electronic particle counter, 23:50404(R) (UCSD-10-P-20-50(Pt.1))
organic matter from, release of dissolved, 25:37215 (RLO-1725-186)
organic matter release by marine, in coastal and offshore areas of Northeast Pacific Ocean, 24:36121 (RLO-1725-167)
phosphorus-32 transport by, in Columbia River, 21:41426
photosynthesis in benthic, tracer study of energy conversion during, 21:34627(R) (UH-235-P-4-2)
photosynthesis in Chesapeake Bay, during summer of 1964, 21:36479(R) (NYO-3497-11)
phyto-, chemical composition and vitamin B12 production of marine, 23:50404(R) (UCSD-10-P-20-50(Pt.1))
phyto-, fluorescence, photosensitivity, and photosynthetic response of, in laboratory and marine ecosystems, 23:50404(R) (UCSD-10-P-20-50(Pt.1))
phytoplankton, analysis for lead-210 and polonium-210 by solvent extraction, electrodeposition, and α counting, 24:36182
phytoplankton, productivity in Woronora estuary, Australia in relation to radioisotope transport, 23:33663 (AAEC/TM-492)
phytoplankton, radioactivity loss from carbon-14-labeled, during storage on membrane filters, β, 24:2539
phytoplankton, radioisotope transfer by, chromium-51 and zinc-65, 23:17899 (CONF-670503-, pp 420-30)
phytoplankton, radioisotope transfer by, chromium-51 and zinc-65, 23:17899 (CONF-670503-, pp 420-30)
phytoplankton, zinc-65 uptake from, by euphausiids, 23:33614
plutonium-239 content of Atlantic Ocean, 25:55161
polonium-210 content of marine, off South African coast during 1965 to 1966, 22:6817
polonium-210 content of, in Finland, 21:41378 (CONF-660827-2)
population and upwelling off coast of Peru, June, 1969, 25:34498 (UCSD-10-P-20-93)
population dynamics in, use of computer constructed biological models for study of, 21:47003 (BNWL-485)
populations of phyto-, in lakes, optical density profiles as aid in study of, 25:51286 (COO-1820-5)
production in North Pacific Ocean, 25:18304 (RLO-1725-187)
production off coast of Washington and Oregon during 1961—2, 24:33597 (RLO-1725-168)
quark content in, upper limit for, (E), 22:34841 (COO-1112-155)
radiation effects on productivity of, additive effects of thermal shock on γ, 25:37756 (RLO-2225-T-1-4)
radiation effects on, in seawater, (E), 22:12455(R) (EUR-3635)
radiation monitoring of, in Adriatic and Ligurian Seas during 1961 to 1968, 24:34210
radioactive contamination of marine, from Far Eastern seas following weapons tests of 1958, 21:8807(T) (AEC-tr-6641, pp 105-14)
radioactivity in Italian sea and fresh water, 21:39055(R) (PROT.-SAN.-02/66)
radioactivity in Italian sea and fresh water, 21:39056(R) (PROT.-SAN.-10/66)
radioinduced mutations in, from South Pacific nuclear test area, 23:24711 (A-AC.82/G/L-1254, pp 18-23)
radioisotope accumulation by marine phyto-, influence of cellular respiration inhibitors on, polonium-210 and plutonium-239, 25:10941
radioisotope accumulation by marine, mechanisms of, 25:55154
radioisotope concentration factors for, in Japan, 24:34225
radioisotope content in Irish Sea, 21:15995
radioisotope content of seawater, from fallout and waste disposal, (E), 25:51649 (A/CONF.49/P-457)
radioisotope content of, at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
radioisotope content of, from Columbia River during July 1966, 21:34650(R) (BNWL-322)
radioisotope content of, from fallout, studies in Italy, 24:34213
radioisotope content of, in Columbia River during 1966 and 1967, chromium-51, iron-59, manganese-54, niobium-95, phosphorus-32, scandium-46, zinc-65, and zirconium-95, 24:36726 (BNWL-1377)
radioisotope content of, in Columbia River, effects of reactor shutdown on, 22:10740 (BNWL-480, pp 153-93)
radioisotope content of, in Japan, cerium-144, praseodymium-144, rhodium-106, and ruthenium-106, 23:2828
radioisotope content of, in Pacific Ocean, 23:24580 (A-AC.82/G/L-1254, pp 13-17)
radioisotope content of, in Pacific Ocean following nuclear testing during 1966, 23:33665(T) (JPRS-47899)
radioisotope content of, in Pacific Ocean, cerium-141, cerium-144, niobium-95, ruthenium-103, zirconium-95, 24:12030(T) (AEC-tr-7128, pp 59-61)
radioisotope content of, in Pacific Ocean, lead-210 and polonium-210, 25:10997(R) (RLO-2225-T-14-1)
radioisotope content of, in Sea of Azov, determination of buildup factor of copper, manganese, and zinc, 23:24576 (A-AC-82/G/L-1243, pp 21-5)
radioisotope content of, in South Africa during 1967, cesium-137, potassium-40, and strontium-90, 23:6450 (PEL-181)
radioisotope sorption by, in Rhine River, cesium-137, iodine-131, phosphorus-32, strontium-85, zinc-65, 24:14481
radioisotope uptake by marine, 23:43718
radioisotope uptake by, along Puerto Rican coast, 21:16303
radioisotope uptake by, in Black Sea during 1958 to 1960, 25:39854(T) (AEC-tr-7232, pp 112-34)
radioisotope uptake by, in Columbia River system, 21:16090
radioisotope uptake by, in seawater, effects of iron and photosynthesis on, 25:32329
radioisotope uptake by, phosphorus-32 and zinc-65, 22:51488
radium content in Bahamas-region, 21:41050
radium-226 content of marine phyto-, off coast of South Africa, 25:55155
radium-226 content of, in Canadian lakes and rivers during 1969, 24:41875 (AECL-3430, pp 19-31)
radium-226 content of, in Chalk River area during 1969, 25:4473 (AECL-3687)
role in carbon-14 uptake from water by fish, 22:25837
role in transport of copper, manganese, and zinc in Sea of Azov, 24:12026(T) (AEC-tr-7128, pp 14-29)
sampling in Columbia River effluent, analysis of, 21:28412 (RLO-1725-82)
sampling of, design of equipment for, 21:34498
sorptive properties of Columbia River, for cobalt and zinc, (E), 23:11646(R) (COO-1264-5)
strontium content of, of Atlantic and Pacific Oceans, 22:36261
strontium distribution in marine, effects of Acantharia on, 21:36617
strontium uptake by, in Bahamas region, 21:41050
strontium-85 uptake by, in Baltic Sea, 21:36582 (SFL-A-9)
strontium-89 uptake by, in Lake Lucerne, 21:16302
strontium-90 accumulation by, effects of calcium content of lake water on, 22:47500
strontium-90 accumulation by, in Atlantic and Pacific oceans, 24:12029(T) (AEC-tr-7128, pp 57-8)
strontium-90 content in, effects of presence of acantharia on, 21:28411 (IAEA-2607-13)
strontium-90 content of, in Atlantic and Pacific Oceans, calculation of, 23:24579 (A-AC.82/G/L-1254, pp 10-12)
strontium-90 content of, in Black Sea area ecosystems, 23:17986 (NP-17713)
strontium-90 content of, in comparison to stable strontium, 23:24585
strontium-90 content of, in Danube River and Black Sea, 23:24574 (A-AC-82/G/L-1243, pp 6-10)
strontium-90 content of, in dystrophic, eutrophic, and mesotrophic lakes, 23:24604 (A-AC-82/G/L-1243, pp 3-5)
strontium-90 content of, in Finland, 21:41378 (CONF-660827-2)
strontium-90 determination in, from Black Sea, radiometric method for, 21:8809(T) (AEC-tr-6641, pp 121-7)
strontium-90 uptake by freshwater, in relation to uptake of stable strontium, 25:46692
strontium-90 uptake by, in Lake Lucerne, 21:16302
strontium-90 uptake by, in lakes, concentration factors for, 23:33602
thorium-228 content of marine, in south Atlantic and near southern African coast, 24:334
trace element content in coastal Puerto Rican, 21:8746 (ORNL-4007, pp 43-119)
trace element distribution in, off Colombia and Panama, effects of environmental factors on, 24:17020
uranium content of marine, (E), 24:48195
uranium-234/uranium-238 activity ratios in marine, (E), 24:48195
use of, as indicator of radioactive contamination in seas, radiometric analysis for determining, 21:8810(T) (AEC-tr-6641, pp 128-44)
use of, for biological indication of weak radioactive contamination in sea water, 21:8808(T) (AEC-tr-6641, pp 115-20)
yttrium-90 uptake by, in Lake Lucerne, 21:16302
zinc-65 content in, in Columbia River, 21:28338(R) (BNWL-353(Rev.))
zinc-65 transport by, in Columbia River, 21:41426
zinc-65 uptake by, from sea water, 21:28434(R) (EUR-3274.e)
zooplankton, analysis for lead-210 and polonium-210 by solvent extraction, electrodeposition, and α counting, 24:36182
zooplankton, radioisotope content of, near Tuamotu Island, γ spectra of cerium-141, cerium-144, niobium-95, ruthenium-103, and zirconium-95, 23:24586
zooplankton, radioisotope removal from, following labeling by fallout from nuclear tests and laboratory tracers, 23:17902 (CONF-670503-, pp 462-73)

Plant Cells
see Cells

Plant Hormones
see Hormones, Plant

Plant Physiology
see Physiology

Plant Reproduction
see Reproduction

Plant Respiration
see Respiration

PLANTS
(Limited to general papers on plants in the botanical sense.)
see also Bacteriophages
see also Bryophyta
see also Chlorophyta
see also Chrysophyta
see also Crops
see also Cyanophyta
see also Euglenophyta
see also Eumycota
see also Geotropism
see also Leaves
see also Microorganisms
see also Myxomycota
see also Phaeophyta
see also Pollen
see also Pyrrhophyta
see also Rhodophyta
see also Rickettsia
see also Roots
see also Schizomycota
see also Seed
see also Seedlings
see also Stems
see also Vegetables
see also Viruses
abundance of herbaceous, effects on beetle population at Hanford Works, 21:14615 (BNWL-280, pp 103-4)
accumulation of cerium, cesium, and yttrium, effects of soil aeration and chemistry on, 24:29158(R) (UCR-34-P-92-A)
age of woody, carbon-14 method for estimation of, 25:15771
alkaline earth elements in, distribution of, 21:20019 (ARCRL-16, pp 27-69)
alpha activity in, in environs of Safari I during 1965, 21:10878(R) (PEL-123)
analysis by neutron activation, 23:4553
analysis by neutron activation methods, 22:25278
analysis for aluminum and magnesium by fast-neutron activation, 23:4540
analysis for aluminum by separation and neutron activation, 25:54514
analysis for antimony, arsenic, and mercury by neutron activation and radiochemical separations, 24:124
analysis for arsenic and bromine by neutron activation, 23:24130
analysis for barium, manganese, and strontium by neutron activation and radiochemical ion exchange, 23:19678
analysis for beryllium, fluorometric, 22:18683 (AAEC/TM-87)
analysis for boron and uranium by nuclear track method, 25:39436
analysis for bromine by neutron activation methods, 22:49
analysis for bromine pesticides by neutron activation, 23:4539
analysis for bromine, methods for precision and sensitivity in activation, 22:42594 (TEES-2671-6)
analysis for calcium and strontium-90, radiochemical, 25:15513 (HASL-239, pp I.23-57)
analysis for calcium-45 and strontium-89 by liquid scintillation spectrometry, 23:7466
analysis for cerium-141 and cerium-144 by solvent extraction and beta counting, 24:29214 (SZS-1/70, pp 19-30)
analysis for cesium-134 by ion exchange and scintillation counting, 23:7454
analysis for cesium-137 and strontium-90, method for, 21:27895 (SZS-1/67)
analysis for cesium-137 by radiochemical isolation and γ spectrometry or beta detection, 25:57355
analysis for cesium-137 by solvent extraction, 24:31450
analysis for cesium-137, method for, 22:21029 (SC-M-67-3044)
analysis for copper and arsenic by neutron activation and radiochemical separation, 24:126
analysis for copper and manganese simultaneously by neutron activation and radiochemical separation, 25:10509
analysis for copper by neutron activation methods, 22:21044
analysis for elemental content of, photonuclear activation techniques for, 23:4541

analysis for fluorine, activation, 21:40798
analysis for gold by neutron activation, 25:41770
analysis for gross beta activity, method for, 22:21029 (SC-M-67-3044)
analysis for lead-210, radium-228, and thorium-228, 22:25829 (TID-24488)
analysis for major components by 14-MeV neutron activation and gamma spectrometry, 23:17361 (CEA-R-3636)
analysis for manganese and potassium by neutron activation methods, 21:40779
analysis for mercury by sublimation and extraction titration, 22:4057
analysis for metals by neutron activation methods, 21:30364
analysis for molybdenum and tungsten by activation methods, 23:40591
analysis for molybdenum and tungsten by neutron activation techniques, 22:47082
analysis for molybdenum, design of rotary separatory funnel rack and shaker for, 24:20698
analysis for molybdenum, effects of ionic strength on automated colorimetric, 24:20693
analysis for nitrogen by neutron activation and γ spectroscopy, 23:11475
analysis for nitrogen isotopes by optical spectrometry, 22:37644 (CEA-R-3410)
analysis for pesticide residues by neutron activation and γ spectrometry, 24:110
analysis for phosphorus-32, modification of counting method for, 24:46197
analysis for plutonium, thorium, and uranium by alpha spectroscopy, 22:48839
analysis for polonium-210 by deposition on silver discs and α counting, 25:40 (IDO-12073, pp 28-36)
analysis for potassium by gamma spectra from potassium-41, 22:18697
analysis for radioisotopes, 21:395
analysis for ruthenium by neutron activation method, 23:43282
analysis for strontium by atomic absorption spectrophotometry, 22:25245
analysis for strontium-90, 21:32081 (AAEC/TM-377)
analysis for strontium-90 by solvent extraction of yttrium-90 daughter using bis(2-ethylhexyl) phosphate, 22:30425 (AAEC/TM-421)
analysis for strontium-90 by strontium-85 internal tracer technique, 21:25798
analysis for strontium-90, method for, 22:21029 (SC-M-67-3044)
analysis for strontium-90, rapid method for, 25:4039
analysis for sulfur-35, 23:40532 (IDO-12071, pp 18-24)
analysis for trace amounts of molybdenum, 22:10175(T) (LB/G-2584)
analysis for trace amounts of rare earths by neutron activation and radiochemical separation, 24:18914 (CEA-R-3917)
analysis for trace elements by mass spectrometry, 23:4549
analysis for trace elements by neutron activation and beta counting or gamma spectrometry, 21:38922
analysis for trace elements, activation, 22:16423
analysis for trace impurities by fast and thermal neutron activation, 23:9327
analysis for uranium after concentration on sodium diethyl dithiocarbamate, 22:4057
analysis for uranium by extraction—photometric and luminescence methods, 23:13646
analysis for uranium by neutron irradiation and fission fragment recording, 24:20
analysis of aquatic, associated with radioactive wastes by neutron activation, 23:4576
analysis of aquatic, for trace amounts of cesium, cobalt, manganese, scandium, and zinc by neutron activation, 25:15540
analysis of ashes of, for microelements, activation, 21:32134
analysis of ashes of, for uranium, fluorimetric, 24:38715
analysis of colored extracts from, for β and γ emitting radioisotopes by Cherenkov counting, 25:15517
analysis of data on effects of site factors on, review of, 22:23478 (ORNL-TM-1974)
analysis of deposits on, for fluorine by neutron activation, 25:29011 (CEA-CONF-1747)
analysis of freeze-dried, for trace elements by neutron activation and γ spectrometry, 24:123
analysis of fresh-water, for cadmium by neutron activation, 25:31880
analysis of fresh-water, for cobalt, copper, iron, manganese, and zinc by neutron activation and γ spectrometry, 25:31883
analysis of low nitrogen-15-content, for nitrogen-14 and nitrogen-15 by optical spectrometry, 22:14443
analysis of organobromine and organochlorine compounds in, by neutron activation methods, 21:25774
analysis of quality control samples of, for calcium and strontium-90 at Health and Safety Laboratory, New York, 24:43964 (HASL-217, pp I.130-48)
analysis of standard, for selenium by neutron activation, 25:57380
analysis of tea, for trace amounts of bromine and metals by neutron activation, 25:20960
analysis of tissues of, for trace elements by neutron activation and γ spectroscopy, 24:115
analysis of tobacco leaves for alkali metals by ion exchange chromatography and atomic absorption spectrometry or gravimetry, 23:4737
analysis of, conference on activation, 23:4524 (STI/PUB-155)
analysis of, for arsenic, bromine, and mercury, automated activation, 21:10254(R) (TEES-2671-5)
analysis of, for calcium-45 by liquid scintillation counting, 21:15844
analysis of, for cobalt, copper, lead, iron, and silver, atomic-absorption spectrometric, 21:1266
analysis of, for copper, activation, 21:4460
analysis of, for elements and isotopes, solubilization method for, 21:14150 (UCLA-12-613)
analysis of, for strontium-90, strontium-85 tracer method for, 21:12280 (CONF-651008-, pp 48-68)
anaphase chromosome structure in, determination by uv photography, 24:21110
Arabidopsis thaliana, radioinduced mutation in, characterization of x, 21:20116(R) (COO-1609-1)
barium-140 content in, in New Mexico, survey of, 21:32654 (SC-DC-67-1844)
beta activity in, of Rybinsk reservoir, 21:8475(T) (AEC-tr-6641, pp 64-71)
beta activity of use of, for determining isotope content, 22:45540
bibliographies on effects of space flight on, 21:10196 (N-66-30084)
book: Effects of Ionizing Radiation on Hydrobionts and Land Plants, 25:24462
book: Mutagenesis of Agricultural Plants, 24:683
book: Principles and Methods of Radiation Plant Selectivity, 21:41519
book: Radiation Biophysics and Plant Radiobiology, 23:50356
book: Selective Mutation, 24:48486
breeding by mutation induction and selection, 21:32605 (STI/PUB-129)
breeding of disease-resistant, use of induced mutations for, 21:20425 (STI/DOC-10/66)
breeding of, conference on, 25:39824 (CONF-690974)
calcium uptake by, effects of soil organic matter on, 22:27901
Capsicum frutescens, radiation effects on ascorbic acid content in, γ, 21:41518
carbon-13 to carbon-12 ratios in marine and terrestrial, 21:10760
carbon-14 content in, of Venezuela, 21:19774
carbon-14 content of essential oils in Japanese, 1947 to 1969, 24:29392 (NIRS-RSD-25)
carbon-14 content of, in Japan and southeast Asia from 1948 to 1965, 22:40710
cation uptake by, effects of strontium-90 reactions with clay fractions of soils on, 22:6795(R) (COO-414-6)
cerium-144 content in aquatic, in Peconic River, 21:20163 (BNL-50001)
cerium-144 content of, in environs of Safari I, 21:10878(R) (PEL-123)
cesium to potassium ratios in aquatic, 21:8669(R) (CONF-660507-34)
cesium-133 content of Colorado lake cesium kinetic studies on aquatic ecosystems from, 25:21615 (COO-1156-40, pp 12-16)
cesium-134 uptake by Puerto Rican, 21:41010 (BMI-171-001)
cesium-137 contamination of foliage of, in relation to food chain transport, effects of soil type on importance of, fallout, 23:38553 (COO-1171-103)
cesium-137 content in aquatic vascular, effects of nuclear warfare on, 21:20233 (NP-16462)
cesium-137 content in aquatic, in Peconic River, 21:20163 (BNL-50001)
cesium-137 content in aqueous, use for monitoring of water supplies, 21:24412 (NP-16590)
cesium-137 content in arctic, effects on content in food chain, 21:12798
cesium-137 content in marine, in Faeroe Islands during 1965, 21:16340 (RISO-131)
cesium-137 content in mountain bog, 21:28427(R) (BNWL-335(Rev.))
cesium-137 content in Pelindaba, South Africa, 22:180 (PEL-89)
cesium-137 content in tissues of, methods for radiochemical analysis of, 21:43402
cesium-137 content in, consumed by insects in White Oak Lake area, 21:32651 (ORNL-P-3081)
cesium-137 content in, in Greenland, determination of, 21:20182 (RISO-132)
cesium-137 content in, in New Mexico, survey of, 21:32654 (SC-DC-67-1844)
cesium-137 content in, relation to content in fish, mollusks, and water, 21:22367 (NP-16594)
cesium-137 content in, review of hazards from, 21:28480
cesium-137 content of Danish, 1966, 22:10358 (RISO-155)
cesium-137 content of desert, use for monitoring of environment, 21:14634 (BNWL-280, pp 101-3)
cesium-137 content of, effects of soil erosion and washoff on, 23:50398 (CONF-671135-, pp 149-67)
cesium-137 content of, in Colorado during 1961 to 1967, 22:21459(R) (COO-1156-28)
cesium-137 content of, in Finland, 21:41378 (CONF-660827-2)
cesium-137 content of, in Finland during 1966 and 1967, 23:6445 (NYO-3446-11, pp 23-34)
cesium-137 content of, in freshwater reservoirs in France and Poland during 1963 to 1966, fallout, 25:32377
cesium-137 content of, in Greenland, 1966, 22:10359 (RISO-156)
cesium-137 content of, in lakes of Finland during 1964 and 1965, 23:12109
cesium-137 content of, in Soviet Union during 1966, 23:17999(T) (AEC-tr-7030, pp 1-13)
cesium-137 content of, in West Slovakia during 1963 and 1964, 21:8732
cesium-137 content of, of mountain bog, measurement of fallout, 24:31883 (BNWL-1050(Pt.2), pp 1.25-8)
cesium-137 distribution in Arctic region, 25:37497
cesium-137 residence half time in vascular, in Aleutian Islands and central Alaska during 1967 to 1970, 25:49122 (UCRL-72925)
cesium-137 sorption by marine, from fallout in seawater, 21:10827
cesium-137 uptake by aquatic, effects on decontamination of water supplies, 21:24412 (NP-16590)
cesium-137 uptake by, effects of salt solutions on, 23:17564
cesium-137 uptake by, effects of soil fertility and texture on, 21:43413
cesium-137 uptake by, effects of substrate conditions on, 21:28429 (BNWL-SA-1259)
cesium-137 uptake from soil in Sweden, effects of organic matter on, 21:22237 (FOA-4-4485-4623)
cesium-137 uptake from soils, 21:22772
chlorine-36 distribution in, after foliar or root uptake, 21:9006(R) (EUR-3163.e)
chromophore species in phytochrome of, use of absorption spectra to identify, 22:43207(R) (NYO-2373-3(App.))
cobalt-60 content in aquatic, in Peconic River, 21:20163 (BNL-50001)
cobalt-60 content in, consumed by insects in White Oak Lake area, 21:32651 (ORNL-P-3081)
Coleus Blumei, radioinduced metabolic changes associated in, fast neutron and γ, 21:20321(R) (ORO-653)
conference on breeding of, 23:4911
conference on breeding of, 25:24459
conference on genetics of, 23:6415
conference on genetics of variation in, 24:34247
conference on new approaches to breeding for improved proteins in, 23:31686 (STI/PUB-212)
contamination of aquatic, by nuclear power plants, 23:31683
contamination of leafy, by local fallout from near-surface nuclear explosions, 23:19863 (CONF-680507-, pp 49-64)
contamination of, with fission products, 21:16349(T) (JPRS-38849)
content of trace elements in, neutron activation analysis of, 23:6357
content of volatile compounds in forage, effects of, on palatability to deer, 23:2826(R) (UCD-34-P-104-12)
Crepis capillaris, radioinduced chromosome aberrations in cells of, x, 21:32618
Cynara scalymus, radiation effects on restoration of fragments of, x, 21:9014
deposition of atmospheric particle pollutants, equations for, 24:41786
determination of removal rate of iodine-131 from pasture, 22:28452 (NYO-2147-13, pp 152-9)
development, growth, and metabolism of, effects of simulated low-gravity environments on, 22:28701 (ANL-7278, pp 297-303)
diffusion in stomata of, argon-41 tracer study of resistance to, 23:38386
diseases of, tracer studies, review, 21:438
distribution of saxicolous, in relation to microtopography and microweathering of granite, 22:23480(R) (ORO-2412-7)
ecological attributes of perennial, in northern Mojave desert, 25:49120 (UCLA-12-815, pp 63-97)
ecological succession of terrestrial, on volcanic island, 25:39382(R) (NYO-3549-64)
ecology in Biscayne Bay, effects of heated effluents on, 24:23151(R) (TID-25339)
ecology in Colorado alpine watershed, 21:26387 (COO-1445-5)
ecology in land areas of Atlantic-Pacific Interoceanic Canal, 21:39370 (BMI-171-011)
ecology in Manitoba, Canada, pre-irradiation studies of, 24:17011 (AECL-3424)
ecology in Panama, classification of, for feasibility studies of proposed Atlantic-Pacific interoceanic canal, 24:48453 (BMI-171-37)
ecology in Savannah River, 22:6775
ecology in tropical rain forest of Puerto Rico, 22:47496(R) (PRNC-103)
ecology of Amchitka Island, Alaska, 25:49132
ecology of aquatic, marine, and terrestrial, in vicinity of Amchitka Island, effects of MILROY underground nuclear test on, 24:12211 (BMI-171-122(Rev.))
ecology of marine, in American isthmian region, effects of construction of interoceanic canal on, 25:6660 (BMI-171-44)
ecology of marine, in coastal areas of Atlantic-Pacific Interoceanic Canal, 21:39364 (BMI-171-005)
ecology of Pasco Basin, Washington, 25:37745(R) (BNWL-1550(Vol.1)(Pt.2))
ecology of succession of, on denuded land, 21:8746 (ORNL-4007, pp 43-119)
ecology of vascular, in Iceland, 22:18662(R) (ORO-3556-11)
ecology of vascular, in old-field community, effects of climate on, 21:39374 (TID-23858(Pt.9))
ecology of, at Amchitka Island, Alaska, effects of Milrow underground explosion on, 25:16079 (NVO-79, pp 49-71)
ecosystems at Argonne National Laboratory site, 23:38516 (ANL-7559)
effects of freshwater, on hydraulic transport of radioisotopes in ecosystems, (E), 24:20875 (ORO-490-20)
effects of freshwater, on transport of radioisotopes in model river system, mathematical simulation of, 24:20874 (ORO-490-19)
effects of gravity on, clinostat rotation for nullification of, 25:37896 (ANL-7770, pp 101-15)
effects of marine, on transport of radioisotopes from ocean to land, 21:10827
effects of temperature on development and survival of, in Columbia River, 25:35115 (BNWL-1543)
effects on animals and plants, role of radiotoxins in, 25:47004
effects on deuterium content in ground water, 22:18939
effects on radioecology in Grenoble, France, 23:29417(T) (AEC-tr-7038)
effects on transport of radioisotopes in surface waters, (E), 23:43401(R) (TID-25134)
enclosures for growing, use of warm water from nuclear power plants for cooling and heating, 25:48692 (ORNL-TM-3381)
energy metabolism in higher, control of, 24:43913(R) (TID-25485)

epiphytic, fixation of atmospheric nitrogen by, 23:50403 (PRNC-129, pp 122-44)
ethnobotanical dictionary of, collected along proposed routes for interocean canals in Colombia and Panama, 23:13595 (BMI-171-004)
extracts from ligneous, in soil, effects of, on cerium-144 sorption by soils, 24:7772
fallout activity in, effect on natural radioactivity of, 21:12536
fallout content in Bulgarian, effect of altitude on, 21:16007
fallout content in, at Novo-Voronezh power plant, 21:12160
fallout content of Danish, 1966, 22:10357 (RISO-154)
fallout content of, review of methods for determining, 21:14154
fallout fission product contamination on forage, Colorado, 1966, 21:26408(R) (COO-1156-22)
fallout monitoring near detonation site of Project Rulison, 24:14483 (SWRHL-94-r)
fallout uptake by, 21:22407 (EIR-103)
fallout uptake by forage, in Nevada Test Site environs, 22:18963 (BNWL-481-1, pp 93-101)
fallout uptake by, after Operation Plumbbob, 21:1461 (WT-1488)
fallout uptake by, at Boris Kidric Institute of Nuclear Sciences, 24:41743
fiber mass and water content of, design of herbage meter to measure, 21:32553
fission product retention by, values for, 24:34308
fission product sorption by, 22:51445
fission product uptake and cycling in agricultural, 25:52044 (A/CONF.49/P-686)
fission product uptake by above-ground parts of, 21:14579
fission product uptake by, effects of soil conditions and seed characteristics on, (E), 25:15764 (ORO-678, pp 124-5)
fission products distribution in, use of γ spectrometry to measure low-level, 22:6795(R) (COO-414-6)
fission products in, analysis of γ spectra of, 21:16171
fission products transport in freshwater, quantitative model for, 25:2548
fission products uptake by, from soil, cesium-137 and strontium-90, 24:48372
flammability of, effects of meteorological conditions on, 21:203 (RM-5073-TAB)
gamma emissions from potassium-42 in tissues of, use of liquid scintillation spectrometer for counting of, 22:503
gamma irradiation of, design of apparatus for, 22:2290(P)
genetic control of development in, 21:2915 (BNL-976)
genetics of, conference on effects of space on, 24:31953
germination and survival of desert, following exposure to blast, fire, and radiations during surface and underground nuclear explosions, 25:37757 (UCLA-12-817)
germination of pollen of, effects of calcium on, in various species, 21:9011
germplasm stocks of, progress on information retrieval system for, 24:21321(R) (RLO-353-42)
growth in soils irrigated with reactor-heated water, proposal for studying, 23:28655 (DUN-SA-59)
growth of agriculturally-important, effects of macro- and microquantities of elements and minerals on, 21:28683
growth of, development of capacitance probe for determining, 21:34517 (ORNL-4091, pp 22-35)
growth of, effects of background radiation on, 21:26212 (ANL-7220, pp 115-19)
growth of, effects of contrasting slope exposures and meteorology on, 24:39077 (BNWL-1307(Pt.1), pp 136-8)
growth of, effects of phosphorus-32 and sulfur-35 concentrations on, 21:12792
growth of, effects of radiotoxins isolated from rat liver on, 24:17142
growth on Arid Land Ecology Reserve near Hanford, Washington, effects of microclimate on, 24:14079 (BNWL-1051(Pt.1), pp 65-77)
growth on contaminated soils, effects of, on vertical migration of cerium-144 in soil, 24:7776
herbicide metabolism in, 22:14913 (ORNL-TM-2042)
herbicide residues in, detection of, use of radioisotopes for, 21:20029 (STI/PUB-123)
herbicide uptake and distribution in, tracer studies using 35 carbon-14-labeled compounds and autoradiography, 24:31823
induced mutations in, review of chemical and physical agents for, 24:41819
infectivity of nematodes on, tracer study, 21:20425 (STI/DOC-10/66)
infectivity of viruses on, tracer study, 21:20425 (STI/DOC-10/66)
insect distribution associated with, at Nevada Test Site, review of, 22:23483
interactions with soil, tracer studies of, 25:52279 (A/CONF.49/P-162)
inventory of vascular, in southern Nevada, 25:49120 (UCLA-12-815, pp 63-97)
iodine radioisotopes in, radiochemical method for determining, 23:6398
iodine radioisotopes uptake and half-life in tissues of, role of species differences and standard methods of data expression in prediction of fallout, 25:13395 (SWRHL-90-r)
iodine-131 content in liquid and solid specimens of, use of γ spectrometry for measuring, 21:41410
iodine-131 content in tissues of, methods for radiochemical analysis of, 21:43402
iodine-131 content of, instruments and techniques for measurement of, 22:8535
iodine-131 content of, ratio of, to content of atmosphere and milk, 22:17001 (CONF-680108-1)
iodine-131 measurement in, following chemical treatment, 21:4463
iodine-131 transport from atmosphere to, properties of turbulent, 22:40252 (AECL-2787, pp 589-601)
ion leaching from foliage of, tracer study on, 21:28357
ion uptake from soils by, review of, 21:21840 (STI/DOC-10/65)
iron-55 content of, in Finland, 21:41378 (CONF-660827-2)
iron-55 content of, in Finland during 1962 and 1963, 23:41301 (NYO-3446-13, Paper 20)
iron-55 content of, in Finland during 1967 and 1968, 23:6444 (NYO-3446-11, pp 16-22)
iron-59 uptake by aquatic, from water, coefficients for accumulation following, 24:50738
krypton-85 uptake by, method for calculation of, 23:13863
leaching from above-ground parts of, radioisotope tracer study of, 23:24505(R) (NYO-2598-45)
lead content of, on Galician soils, effects of release by soils on, 22:6826
lead uptake by, from air, soil, and water, 23:769 (ANL-7360, pp 68-149)
lead-210 content of, in Finland, 21:41378 (CONF-660827-2)
leaf development of vascular, 25:37203 (NYO-3597-16)
leaf extracts from ligneous, effects of, on migration of manganese-54 in soils, 24:7773
leaf extracts from ligneous, effects of, on radioisotope mobility in soils, 24:7779
leaf-water-content changes and moisture state of, beta-ray gaging techniques for analysis of, 22:6669
legumes, content of phenols containing amino group in, effects of radiosensitivity on, 23:29899
manganese content of, neutron activation analysis of, 23:43651
manganese-54 uptake by alpine, effects of fertilizers on, 23:47938
manganese-54 uptake by Puerto Rican, 21:41010 (BMI-171-001)
mass of periphyton, in streams, determination of, using tracers, 21:8746 (ORNL-4007, pp 43-119)
material leaching from above-ground, organic and inorganic, 25:31709(R) (NYO-2598-52)
materials loss from above-ground parts of, inorganic and organic, 24:22537(R) (NYO-2598-49)
measurement of beta activity of, marine, 21:12806
mercury toxicity for marine, tracer studies of, 24:31897
metabolism in, effects of genotype on trace element, 21:41347
metabolism of cadmium, cerium, cesium, cobalt, iodine, strontium, and zinc in marine, tracer studies of, using radioactive wastes disposed in sea, 24:31897
metabolism of tritium-labeled water in leaves of, 21:24340
metabolites production in irradiated, anomalous, 21:6651
mineral nutrition in lower, review of, 22:12781
mineral uptake by, kinetics and mechanism of, 24:41152(R) (UCB-34-P-5-56)
mineral uptake by, mechanism and kinetics of, 25:48422 (UCB-34-P-5-60)
mineral uptake by, research progress on mechanism and kinetics of, 25:46407(R) (UCB-34-P-5-59)
mutation breeding of agricultural, EURATOM-ITAL research on, 24:39587(R) (NP-18287)
mutation breeding of crop, review of, 24:34262
mutations in higher, characteristics of induced vs spontaneous, 21:6470 (RLO-353-7)
mutations of, mechanisms for chemically induced, 21:8776
mutations of, properties of induced, 21:20137
nitrogen uptake by, effects of soil type on, 21:22238(R) (NP-16547)
nitrogen-15 content in, spectrographic method for determining, 23:85
nutrient uptake from fertilizers and soil by, review on tracer studies on, 25:46670
nutrition and physiology of, conference on tracer studies of, 21:41316 (STI/PUB-137)
nutrition of, effects of radioisotopes in soil on, bibliography on, 21:24298 (PAEC(A)IN-655)
Papaver sp., opium alkaloids synthesis by, reaction mechanisms for, 21:3378 (UCRL-16806, pp 31)
parasite growth on, tracer studies of, 21:20425 (STI/DOC-10/66)
periphyton, strontium-90 content of Zegrzynski artificial lake, Poland, 1963 and 1964, 23:47629
pesticide distribution in leaves of, use of gold-198-labeled compounds to study, 22:6747
pests of, use of radiation for control of, review of, 21:4893
phosphorus uptake by, effects of soil type on, 21:22238(R) (NP-16547)
phosphorus-32 absorption and distribution in, effect of tobacco mosaic virus on, 21:8737
phosphorus-32 absorption and distribution in, effect of tobacco mosaic virus on, 21:8737
phosphorus-32 content of tissues of, autoradiographic method for determination of, 22:31070
phosphorus-32 transport in roots of, use of autohistoradiography for determining, 21:41345
photosynthesis in desert, in relation to growth and survival, 25:4477 (UCLA-12-782, pp 49-81)
photosynthesis in, tracer study of effects of chloroplast mutations on, 21:41342
photosynthesis, respiration, and transpiration of, improved feedback control for Null-Point compensating system for measurement of, 25:31741 (UCLA-12-813)
photosynthetic reactions in, energy conversion by, 21:21822 (BNL-989)
physiology during space flight, bibliographies on, 21:16429 (N-66-33446)
physiology of, effects of rust-inducing fungi on, 21:20425 (STI/DOC-10/66)
physiology of, review of effects of deuterium on, 21:41504
physiology of, review of use of radioisotopes for determining, 24:23090
plutonium content in, after Palomares accident, use as indicator of effectiveness of gross decontamination procedures, 23:20201 (CONF-680507-, pp 456-9)
plutonium-239 distribution in, in relation to soils and small mammals, 24:4590 (UCLA-12-754)
plutonium-239 uptake from soil by, 21:43414
plutonium-239 uptake from soil by, effects of DTPA on fallout, 25:4478
polonium-210 content of foliage of greenhouse, role of fallout as primary source for, 25:8593 (COO-1733-11)
polonium-210 content of, in Finland, 21:41378 (CONF-660827-2)
polonium-210 uptake by, from alkaline soils, hazards of, in agricultural areas, 24:27564
polonium-210 uptake from soil by, mechanisms for, 25:510
population dynamics of Euterpe globosa and Viguiera porteri, in natural ecosystem, 25:42316(R) (ORO-3299-107)
populations in terrestrial ecosystems in Colombia and Panama, transport of stable elements through, 23:45685
populations of, research on development of, (E/T), 25:3947(R) (COO-1761-14)
populations of, research on development of, (E/T), 25:3946(R) (COO-1761-13)
potassium-40 content in Pelindaba, South Africa, 22:180 (PEL-89)
potassium-40 content of, in environs of Safari I, 21:10878(R) (PEL-123)
primary productivity of, determination of, in Puerto Rico, 22:22904 (PRNC-104, pp 90)
production in Hot Creek Valley, Nevada, use of soil and floristic correlates for estimating, 25:37240 (TID-25723)
propagation of desert, by root cuttings and seed, methods for, 25:4477 (UCLA-12-782, pp 49-81)
propagation of shrubs from Nevada Test Site, 21:20112 (UCLA-12-612, pp 77-93)
protein characteristics of, serological studies on, 21:8776
protein synthesis in, RNA metabolism in relation to regulation of, 25:37237(R) (SRO-643-1)
radiation dose to marine, following discharge of radioactive wastes into seawater, 25:42373
radiation dosimetry in aquatic, performance of thermoluminescent detectors for direct measurements of, 25:37795 (BNWL-SA-3712)
radiation effect on, ecological study of chronic γ, 22:51487
radiation effects in tropical rain forest, photography of γ, 25:21634 (TID-24270, pp B.63-78)
radiation effects on, 21:11003 (CMN-Pub-2/65(Suppl.2))
radiation effects on absorption spectra of phytochrome in, effects of wave length on monochromatic light,, 22:43207(R) (NYO-2373-3(App.))
radiation effects on agricultural and tropical, 23:10108(R) (NYO-2043-173)
radiation effects on apical dominance and regeneration in, effects of dose on γ, 23:29897
radiation effects on biochemical reactions and cytology of, effects of environment on, 23:9910(R) (EUR-4080)
radiation effects on biochemistry of, 21:14764
radiation effects on biology of, ionizing radiation, uv, and visible light, 21:22789
radiation effects on calcium absorption by pollen tubes of, uv and x, 21:9011
radiation effects on cell organelles of, 21:45600
radiation effects on chlorophyll content and growth of, solar uv, 22:43484
radiation effects on chlorophyll production by tropical rain forest, γ, 25:21583 (TID-24270, pp I.21-33)
radiation effects on content of anthocyanin in leaves of higher, γ and x, 22:31285
radiation effects on content of DNA and histones in cell nuclei of, effects of dose on γ, 24:27541
radiation effects on cultivated, in France, review of mutagenic, 24:25448
radiation effects on cytology and pollen sterility in Kerala Coast, natural background, 25:39948
radiation effects on cytology of, in tropical rain forests, γ, 25:21972 (TID-24270, pp G.3-14)
radiation effects on development and yield of agriculturally-important, 21:24674
radiation effects on development of food, in Columbia and Panama, fallout, 23:13596 (BMI-171-15)
radiation effects on development of, x, 21:16525
radiation effects on ecology of freshwater and terrestrial, bibliography on, 25:6664 (TID-3910(Suppl.6))
radiation effects on ecology of, research on, 23:48007 (UCLA-12-724, pp 1-21)
radiation effects on embryos of, x, 21:13059
radiation effects on enzyme activity of, γ, 21:6719
radiation effects on enzymes in, 21:14764
radiation effects on fertility of, fast-neutron, 21:6720
radiation effects on genetics of, exposed during space flight, 21:39386
radiation effects on green tissues of, prediction of laser, 21:24335
radiation effects on growing tips of root and stem of, lethal, 21:36740
radiation effects on growing, Spanish National Institute of Agronomy gamma field facility for studies of, 23:24380 (CONF-670649-9)
radiation effects on growth and survival of, effects of homologous DNA on, 25:29716
radiation effects on growth and survival of, in old field community, combined effects of dose, dose rate, and season on cesium-137 γ, 23:43719
radiation effects on growth of agricultural, following contamination with mixtures of fresh fission products, effects of radiation dose and stage of maturity on, 25:52044 (A/CONF.49/P-686)
radiation effects on growth of, effects of dose on γ and x, 25:21967
radiation effects on growth of, in desert, chronic low-level γ, 23:43717 (UCLA-12-734)

radiation effects on growth of, low-dose, 21:13058
radiation effects on growth of, under conditions of long-term exposure, γ and x, 21:20233 (NP-16462)
radiation effects on growth, organ structure, somatic mutations, and survival of woody perennial, chronic cobalt-60 γ, 24:31928
radiation effects on herbs, lichens, mosses, shrubs, and trees, comparison of chronic cesium-137 γ, 24:34203
radiation effects on higher, methods for determining cobalt-60 γ, 24:34763
radiation effects on infection and immune mechanisms in, bibliography on ionizing, 22:4566 (TID-23990(Suppl.1))
radiation effects on infection and immune reactions in, bibliography on ionizing, 22:4565 (TID-23990)
radiation effects on living, bibliography on, 22:4663 (AED-C-04-30)
radiation effects on metabolism and transpiration in tropical rain forest, γ, 25:21953 (TID-24270, pp I.103-64)
radiation effects on metabolism of auxins in, photoreactivation of uv, 21:43330
radiation effects on metabolism of, low-dose, 21:13058
radiation effects on morphology of, 21:14764
radiation effects on morphology of alpine, in Colorado watershed, fallout, 21:26387 (COO-1445-5)
radiation effects on nuclear volume of, in tropical rain forests, γ, 25:21949 (TID-24270, pp G.15-20)
radiation effects on ornamental, fast neutron, 21:36759
radiation effects on photosynthesis in, at high eelevations, uv, 21:4885
radiation effects on physiology of, 21:14764
radiation effects on pollen from, fruit and seed production following x, 21:20439
radiation effects on polyphenol oxidase activity in, 24:39431
radiation effects on populations of, in relation to ecosystem, chronic γ, 23:17988 (ORO-2412-18)
radiation effects on productivity in, review on, 25:47046
radiation effects on radionuclide leaching from, in tropical rain forests, γ, 25:21638 (TID-24270, pp H.187-9)
radiation effects on rain forest, γ, 25:21926 (TID-24270, pp C.3-22)
radiation effects on reproduction of, in desert ecosystems, fallout, 25:4477 (UCLA-12-782, pp 49-81)
radiation effects on seeds and cuttings of berry, effects of dose and species on gamma, 25:58151
radiation effects on seeds of, international program for reactor neutron, 23:45947 (CNM-R-2(Vol.2), pp 826-40)
radiation effects on small, effects of energy on microwave, 25:8790
radiation effects on species composition of, in granite outcrop ecosystem, γ, 23:17969 (CONF-670503-, pp 99-109)
radiation effects on sprouting of tropical rain forest, γ, 25:21944 (TID-24270, pp D.305-8)
radiation effects on succession of, ecological studies of γ, 21:24373
radiation effects on survival and yield of agricultural, review of extrapolation studies on fallout γ, 25:47035
radiation effects on survival and yield of agricultural, review of extrapolation studies on fallout γ, 25:47035
radiation effects on synthesis of proteins and RNA in, effects of seed exposure on x, 23:29343(R) (COO-1313-22)
radiation effects on terrestrial, combined effects of oxygen with uv, 21:22653(R) (N-66-31381)
radiation effects on tropical rain forest, photography of γ, 25:21945 (TID-24270, pp D.309-11)
radiation effects on vegetative propagation of shrubby, thermal and γ, 21:18184
radiation effects on woody, ionizing, 24:41788
radiation effects on, abstracts of symposium on, 23:31950
radiation effects on, agricultural use of neutron, 21:22783
radiation effects on, bibliography on, 21:41473 (AED-C-04-29)
radiation effects on, bibliography on, 22:51869 (AED-C-04-31)
radiation effects on, combined effects of space flight factors in Cosmos-110 biosatellite on ionizing, 23:12242
radiation effects on, design of cesium-137 radiation source for studies of, 24:11737
radiation effects on, dosimetry in, 22:14525
radiation effects on, during space flight, proton, 22:12899(T) (N-67-29205, pp 77-82)
radiation effects on, effects of developmental stage, ploidy, and speciation on, 21:43407
radiation effects on, effects of dose and dose rate on mutagenic, 25:46796
radiation effects on, effects of nutritional elements following exposure of seeds in reactor, 21:6720
radiation effects on, effects of seed exposure on, 21:36758
radiation effects on, electromagnetic field, 24:27661
radiation effects on, following nuclear war, review of, 22:28395 (TID-23939)
radiation effects on, in biosatellite programs in relation to safety of astronauts, 22:31078
radiation effects on, in Brazil, high-level natural background, 23:7973(R) (NYO-3273-11)
radiation effects on, in El Verde tropical rain forest, from 1965 to 1967, γ, 25:21928 (TID-24270, pp D.3-75)
radiation effects on, in space flight, review of, 23:29717
radiation effects on, in tropical rain forests, cesium-137 γ, 25:21929 (TID-24270, pp D.77-102)
radiation effects on, ionizing, 22:17020
radiation effects on, kinetic model of response to γ, 25:21927 (TID-24270, pp C.49-52)
radiation effects on, mutagenic, 23:10048(R) (ORO-661)
radiation effects on, neutron, 22:16997
radiation effects on, of forest ecosystem, cesium-137 γ, 22:47497
radiation effects on, of Mojave desert, low-level γ, 24:41794
radiation effects on, protective effects of DNA-photoreactivating enzymes against uv, 24:2716
radiation effects on, protective effects of plastic covers against fallout β, 25:4477 (UCLA-12-782, pp 49-81)
radiation effects on, proton, 22:38474
radiation effects on, RBE for protons in relation to cosmic, 24:846
radiation effects on, RBE of proton, 22:36273
radiation effects on, reaction mechanisms for x, 21:1837(R) (NYO-2587-21)
radiation effects on, research methods for study of, 21:32792
radiation effects on, review of, 21:39485 (CONF-650847)
radiation effects on, review of gamma sources and methods used at Brookhaven National Laboratory for study of, 21:3453
radiation effects on, review of ionizing, 25:10976
radiation effects on, space, 22:21634
radiation injuries of, protective effects of thiourea against uv, 21:20287
radiation lethality for germination and survival of ornamental, LD$_{50}$ for, 25:4724
radiation monitoring in environs of Ames Research Reactor during 1971, 25:55152 (IS-2658)
radiation monitoring in vicinity of Savannah River Plant during July 1 to December 31, 1966, 21:16336(R) (DPST-67-30-1)
radiation monitoring of BNL area, 1965, 22:40258 (BNL-50093)
radiation monitoring of Ispra environs, 23:13870 (EUR-4088)
radiation monitoring of Savannah River Plant, January through June 1968, 22:45178(R) (DPST-68-30-2)
radiation monitoring of, at Atomics International in California during 1968, 23:29507(R) (TID-25018)
radiation monitoring of, from environs of nuclear research center at Pelindaba, South Africa during 1968, 24:23195 (PEL-192)
radiation monitoring of, from environs of Savannah River Plant during January 1 through June 30, 1970, 24:50897(R) (DPST-70-30-2)
radiation monitoring of, in Black Sea, 21:43376
radiation monitoring of, in environment of Ames Research Reactor during 1969, 24:21149 (IS-2260)
radiation monitoring of, in environs of Phoebus rocket reactor test, 23:43751 (SWRHL-45-r)
radiation monitoring of, in off-site areas in Alaska, Colorado, and Nevada following underground nuclear tests, 25:24133 (SWRHL-98-r)
radiation monitoring of, in Project Gasbuggy environs, preshot and postshot, 24:22845 (SWRHL-99-r)
radiation monitoring of, in vicinity of Paducah Plant during 1965 to 1966, 22:491 (KY-543)
radiation monitoring of, in vicinity of Paducah plant during 1967 and 1968, 23:33705 (KY-582)
radiation monitoring results for, in Savannah River Plant area, 24:2654 (DPST-69-30-2)
radiation protection methods for, 25:21960
radioactive aerosol retention by, in comparison to retention of particulate fallout, effects of particle size on, 25:29444
radioactive contamination by Palomares accident, 23:20200 (CONF-680507-, pp 446-55)
radioactive contamination of La Hague Center, France, 23:545 (CEA-R-3459)
radioactive contamination of, effects of fallout on, 24:46592 (SZS-10/70)
radioactivity content of off-site, from Gasbuggy-2 Redrill, 24:44127 (SWRHL-105-r)
radioactivity content of, relation of, to post attack food supply of domestic animals and man, 22:38263 (TID-24459)
radioactivity in Columbia River, effects of reactor effluent on, 21:28427(R) (BNWL-335(Rev.))
radioactivity in vicinity of burial sites for radioactive wastes, seasonal variations in, 21:24434
radioactivity in, correlation with fallout activity, 21:22407 (EIR-103)
radioactivity in, effects of high level of natural, on occurrence of hemorrhagic cystitis in cattle in Rumania, 21:11101
radioactivity in, from West Valley Processing Plant site, α and β, 24:9422 (DOCKET-50201-21)
radioactivity in, from West Valley Processing Plant site, α and β, 24:9423 (DOCKET-50201-22)
radioactivity in, from West Valley Processing Plant site, α and β, 24:9424 (DOCKET-50201-23)
radioactivity in, near Ames Research Reactor, 1962 to 1968, 22:25532 (IS-1776)
radioactivity in, near Savannah River Plant, 1967, 21:43055(R) (DPST-67-30-2)
radioactivity monitoring in environs of Savannah River Plant during July to December 1969, 25:21693
radioactivity monitoring in Italian, 1966, 21:43056 (EUR-3554.e)
radioactivity monitoring in, near Atomics International Plants in California during 1967 to 1968, gross, 23:31777
radioactivity monitoring of, in vicinity of Ames Research Reactor, 21:18037 (IS-1523)
radioactivity monitoring of, West Valley, New York, 1969, 25:13080 (DOCKET-50201-62)
radioactivity near Ames Research Reactor, 1968, 23:31431 (IS-2025)
radioactivity of French, effects of fallout on, 1961 to 1965, 22:25538
radioactivity of, on Pacific Island of Niue, 22:2215
radiobiological parameters of, use of, for genetic classification, 21:22233 (BNL-994, pp 113-23)
radiobiological research projects with cultivated, in Denmark, description and methods of, 21:9010
radioecology of terrestrial, research on, at Battelle-Northwest during 1969, 24:50801 (BNWL-1306(Pt.2), pp 2.1-31)
radioecology of, methods of research in, 22:19302
radioinduced aging in leaves of, effects of genetic redundancy on x, 25:608
radioinduced chimeras in, detection of, for breeding purposes, 21:24659
radioinduced chromosome aberrations in cells of, review of neutron, 22:51492 (UCRL-18432)
radioinduced chromosome aberrations in, comparison of, with animals and humans, 22:38245
radioinduced chromosome aberrations in, grown from proton- and γ-irradiated seed, 21:16519(T) (JPRS-38272, pp 371)
radioinduced chromosome aberrations in, mechanism for, 21:16313
radioinduced chromosome aberrations in, relation between chromosome volume and natural background, 25:46782
radioinduced injuries in, effects of genetic factors and time on regeneration following, 25:21960
radioinduced lethality in, dose required for 7-day γ, 21:20233 (NP-16462)
radioinduced mutations and bract morphology in horticultural, fast neutron and γ, 21:20321(R) (ORO-653)
radioinduced mutations for improved quality and yield in vegetable, γ, 25:52279 (A/CONF.49/P-162)
radioinduced mutations for improvement of yield of, 25:21658
radioinduced mutations for improvement yield from, 25:21965
radioinduced mutations for occurrence of spherical particles in hybrid clones of, β and x, 21:36550
radioinduced mutations for quantitative characteristics in, thermal neutron, 24:51104
radioinduced mutations in agricultural, 25:52020 (A/CONF.49/P-844)
radioinduced mutations in agricultural, for increased productivity, 25:51962 (A/CONF.49/P-694)
radioinduced mutations in agricultural, in Latin America, 24:46599 (NP-18164)
radioinduced mutations in agricultural, review of literature on, 25:4482
radioinduced mutations in agriculturally important, in Poland, 25:52015 (A/CONF.49/P-329)
radioinduced mutations in crop, dosimetry for neutron, 22:31047
radioinduced mutations in crop, economics of, 25:24091
radioinduced mutations in crop, in India for improved quality and yield, 25:52017 (A/CONF.49/P-537)
radioinduced mutations in economically important, summary through 1969 of useful, 24:50825
radioinduced mutations in grain, cosmic, 21:6480
radioinduced mutations in, agricultural significance of ionizing, 23:50925(R) (NYO-2043-195)
radioinduced mutations in, conference on use in plant breeding of, 21:9020
radioinduced mutations in, conference on use of, in breeding, continuous γ, 24:31927
radioinduced mutations in, economics of, 25:24094
radioinduced mutations in, effects of, on breeding, review of, 24:41837
radioinduced mutations in, factors affecting, 24:50809 (NP-18424)
radioinduced mutations in, for breeding, 24:41852
radioinduced mutations in, for breeding in India, review of, 24:41854
radioinduced mutations in, for disease resistance, 25:52256 (STI/PUB-271)
radioinduced mutations in, for flower, fruit, and root quality and disease resistance, effects of dose and seed exposure on, 25:18964(P)
radioinduced mutations in, for use in agricultural breeding programs, 21:45857
radioinduced mutations in, for use in agriculture, 21:43358
radioinduced mutations in, for use in agriculture, 22:10881
radioinduced mutations in, for use in agriculture, 25:47047
radioinduced mutations in, gene transmission and genotypic ratio of, 23:48256
radioinduced mutations in, program for γ and neutron, 24:12043 (ORO-672, pp 186-8)
radioinduced mutations in, RBE of fast and thermal neutrons, 25:6670 (CONF-691106-, pp 315-39)
radioinduced mutations in, review of, 24:41814
radioinduced mutations in, review of ionizing, 25:10977
radioinduced mutations in, review of mechanisms of, 24:21112
radioinduced mutations in, role in plant improvement of, 25:46797
radioinduced mutations in, significance of, to genetic selection, 21:4789
radioinduced mutations in, use of reactors as radiation source for studies of neutron, 24:21325
radioinduced mutations of, 21:1836 (BNL-10555)
radioinduced mutations of, applications in plant breeding programs, 21:9006(R) (EUR-3163.e)
radioinduced mutations of, mechanisms for, 21:8776
radioinduced mutations of, use in breeding programs, 21:24673
radioinduced mutations of, use of, for improvement, 23:4913
radioinduced reduction of diversity of, in oak-pine forest, γ, 21:36538
radioinduced stigmata of flowers of, uv, 21:14763
radioinduced thermoluminescence of lipid components of seeds from, theoretical analysis of x, 24:9781
radioinduced toxin production in, effects of, on tumors of rats, 24:34764
radioinduced toxins in, effects of gibberellins on activity of, 24:9967
radioinduced toxins in, mutagenic effects of, on Escherichia coli, 22:51522
radioisotope accumulation by aquatic, following uptake from nutrient solution, effects of EDTA on cadmium-115, mercury-203, and zinc-65, 24:7713

radioisotope accumulation by, in natural waters, 25:2547
radioisotope accumulation by, in Nitelua River in Norway, 21:10749
radioisotope accumulation by, of fresh and salt waters, coefficient for, 23:17987 (NP-17714)
radioisotope accumulation in edible aquatic and marine, 23:24507 (UCRL-50564)
radioisotope analysis in, following accident at Savannah River Plant, plans for emergency, 22:36251 (DP-MS-68-1)
radioisotope availability to roots of, 21:43323
radioisotope concentrations in aquatic, mathematical formulae for, 21:22370
radioisotope contamination of, effects of irrigation by spraying on cesium-137 and strontium-90, 24:41864
radioisotope contamination of, models to study mechanism of cesium and strontium, 24:41865
radioisotope content in aquatic, from lower Hudson River, 24:31984 (DOCKET-50201-26)
radioisotope content in Finnish, during 1970, 25:37789(R) (NYO-3446-15)
radioisotope content in, from West Valley Processing Plant site, strontium-90, 24:9424 (DOCKET-50201-23)
radioisotope content in, from West Valley Processing Plant site, strontium-90, 24:9423 (DOCKET-50201-22)
radioisotope content in, from West Valley Processing Plant site, strontium-90, 24:9422 (DOCKET-50201-21)
radioisotope content of Amchitka Island, Alaska, during 1969 and 1970, 25:52045(R) (NVO-269-11)
radioisotope content of marine, at selected world locations, 23:29461(T) (AEC-tr-7022)
radioisotope content of Nevada Test Site, 25:37792 (UCLA-12-816)
radioisotope content of seed, use for indicator of radioactive contamination, 24:41791
radioisotope content of Southeast USA, 25:18935(R) (ORO-3905)
radioisotope content of terrestrial, at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
radioisotope content of use of Cherenkov radiation for measuring chlorine-35 and chlorine-36, 24:7706
radioisotope content of woody, 25:52011 (A/CONF.49/P-685)
radioisotope content of, at Savannah River Plant during 1969, 24:25473(R) (DPST-70-30-1)
radioisotope content of, cerium-144, cesium-137, radium-226, strontium-90, zirconium-95, 22:25800 (UCLA-12-668, pp 37-58)
radioisotope content of, cesium-134, radium-226, strontium-85, 23:904 (NP-17579, pp III.17-30)
radioisotope content of, development of three-dimensional scheme for measurement of, 23:20193 (CONF-680507-, pp 340-5)
radioisotope content of, effects of infection with pathogens or symbionts on, 22:12798
radioisotope content of, in Alaska and Amchitka Island during 1967 and 1968, cerium-144, cesium-137, europium-155, manganese-54, niobium-95, antimony-125, zirconium-95, 24:27562 (UCRL-50786)
radioisotope content of, in Colorado, sampling variability in, 21:41414
radioisotope content of, in Columbia River Estuary in relation to transport through marine food chain, seasonal variations in chromium-51, scandium-46, and zinc-65, 24:14399 (RLO-1750-54, pp 177-85)
radioisotope content of, in Columbia River, effects of Hanford reactor closure on, 21:26407 (BNWL-SA-1248)
radioisotope content of, in comparison to fish and mollusks, lead-210 and strontium-90, 23:24587
radioisotope content of, in comparison to radium and uranium, 24:41742
radioisotope content of, in Denmark during 1968, cesium-137 and strontium-90, 24:4589 (RISO-202)
radioisotope content of, in environs of nuclear fuels reprocessing plant, cesium-137, sodium-22, 24:25438
radioisotope content of, in Faroe Islands during 1969, cesum-137 and strontium-90, 25:4476(R) (RISO-221)
radioisotope content of, in France during 1962 to 1966, fallout, 22:43317
radioisotope content of, in Germany during 1960 to 1963, cesium-137 and strontium-90, 22:51587
radioisotope content of, in Germany during 1966, cesium-137, strontium-90, 23:29475 (SZS-12/68)
radioisotope content of, in Germany from 1966 to 1968, effects of fallout on cesium-137 and strontium-90, 24:48471
radioisotope content of, in Greenland during 1967, monitoring of fallout cesium-137 and strontium-90, 23:12071 (RISO-182)
radioisotope content of, in Greenland during 1969, 25:16080(R) (RISO-222)
radioisotope content of, in Greenland in 1968, cesium-137 and strontium-90, 24:7768 (RISO-203)
radioisotope content of, in Isere River, 21:20174 (NP-16593)
radioisotope content of, in South Africa during 1967, cerium-141, cerium-144, ruthenium-103, and zirconium-95, 23:6450 (PEL-181)
radioisotope content of, in Soviet Union during 1962 to 1963, cerium-144, cesium-137, niobium-95, strontium-90, and zirconium-95, 23:2816 (A-AC-82/G/L-1170)
radioisotope content of, in Soviet Union, fallout cerium-144, cesium-137, ruthenium-106, strontium-90, and zirconium-95, 24:12062(T) (AEC-tr-7128, pp 152-62)
radioisotope content of, in Yugoslavia following passage through food chain, cesium-137 and strontium-90, 24:41790
radioisotope content of, methods of determining and separating cerium-144, cesium-137, and strontium-90, 22:33818 (UCLA-12-676)
radioisotope content of, near Aiken, S. C. during Jan. to July 1969, 24:36420
radioisotope content of, on Panola mountain, 23:22249(R) (ORO-2412-16)
radioisotope dynamics in natural communities of, effects of soil reaction products on, 25:37742 (A/CONF.49/P-85)
radioisotope fixation by aquatic, in Meuse River, cobalt-60 and manganese-54, 25:2544
radioisotope from soil uptake by, following nuclear explosions, 23:50397 (CONF-671135-, pp 143-8)
radioisotope retention in, fallout, 25:11038 (UCRL-72716(Rev.1))
radioisotope sorption by dead tissues of, in aquatic ecosystem, cerium-144, cesium-137, ruthenium-106, and strontium-90, 24:7777
radioisotope sorption from soils by, method for study of fission product, 22:51301 (FOA-4-4323)
radioisotope translocation in, in relation to food chain availability, pathways for, 25:37742 (A/CONF.49/P-85)
radioisotope transport in Mediterranean Sea, cesium-137, strontium-90, and uranium-238, 25:8630
radioisotope uptake and retention by aquatic, statistical analysis of, 25:10998
radioisotope uptake and translocation in banana and coconut, following foliar application, cesium-134, iron-59, strontium-85, and tungsten-185, 23:45635
radioisotope uptake and translocation in, lead-210, polonium-210, radium-226, and thorium-230, 24:50698
radioisotope uptake by aquatic, antagonistic relation of cerium-144 and strontium-90 in, 24:21062
radioisotope uptake by aquatic, comparison studies on, 25:41833(R) (IA-1218)
radioisotope uptake by aquatic, effects of concentration in water on concentration factor for fallout, 25:2548
radioisotope uptake by aquatic, from KAPL wastes, 22:21497 (HW-43112)
radioisotope uptake by forage, tracer study of, 25:21568
radioisotope uptake by marine, 23:43718
radioisotope uptake by roots of Florida forage, cesium-137 and strontium-85 content in milk following, 25:46769
radioisotope uptake by tropical rain forest, effects of epiphytic mode of growth on, 25:21548 (TID-24270, pp H.167-76)
radioisotope uptake by, direct and indirect, 21:43322
radioisotope uptake by, effects of environmental, morphological, and physiological conditions on, 24:7788
radioisotope uptake by, in mockup of river ecosystem, cerium-144, cesium-137, and strontium-85, 23:29418(T) (AEC-tr-7039)
radioisotope uptake by, irrigated with effluent-contaminated water, 21:16304
radioisotope uptake by, on granitic outcrops of Georgia Piedmont, 21:19759 (NP-16464)
radioisotope uptake during irrigation, development of model for, 25:18938
radioisotope uptake from soils by roots of, 22:43233
radioisotope use in nutrition studies on, 21:26364
radioisotope uses for measurement of root development in, 21:11126
radioisotope uses of for research on, review of, 21:17791
radiometry in carbon-14-labeled, design of respirators for, 21:39331
radionuclide content in, 21:20112 (UCLA-12-612, pp 77-93)
radionuclide content of Finnish, 1962 to 1964, 21:4629
radionuclide cycling by periphyton, design of apparatus for continuous measurement of, 21:28341 (BNWL-SA-1254)
radionuclide uptake in, grown in various types of soil, 21:17952 (NP-16646)
radiosensitivity of agriculturally important, in Poland, 25:52015 (A/CONF.49/P-329)
radiosensitivity of cells of, effects of mitosis and ploidy on, 21:36682
radiosensitivity of conifer, fast neutron, 21:22772
radiosensitivity of Ephedra shrub in Nevada Test Site area, 21:20112 (UCLA-12-612, pp 77-93)
radiosensitivity of forest, use of chromosome volumes for evaluating fast neutron, 23:18128 (CONF-670503-, pp 120-6)
radiosensitivity of pigments of, 25:4467
radiosensitivity of seeds and seedlings of, in relation to taxonomic differences, γ and x, 22:36411
radiosensitivity of, effects of γ radiation and fire on natural populations of Gaylussacia and Vaccinium, 21:1835 (BNL-9434)
radiosensitivity of, research on, 24:21321(R) (RLO-353-42)
radium content of, in uranium mining areas of Czechoslovakia during 1964 to 1967, 25:4157
radium transport in, 21:43415
radium-226 content in meadow, 25:32373
radium-226 distribution in, of aquatic ecosystem, 22:47498
radon-222 release from, measurements in Champaign County, Illinois, 22:171 (PHS-999-RH-26)
recovery in γ-irradiated tropical rain forest, 22:49282(R) (PRNC-119)
relation of aphids to, use of radioisotopes for determining, 24:31827
reproduction of marine, in vicinity of Amchitka Island, Alaska, 25:48675
research by UT-AEC Agricultural Lab in 1969, 24:12229(R) (ORO-672)
research on metabolism and nutrition of agricultural, use of tracer techniques in Ukrainian SSR in, 25:51962 (A/CONF.49/P-694)
response of desert shrub, to water potential, 25:49120 (UCLA-12-815, pp 63-97)
role in distribution and transport of radioisotopes in natural waters, 25:2547
root development of, use of tracer techniques to study, 22:6449
root growth pattern, rubidium-86 tracer studies of, 25:51966 (A/CONF.49/P-506)
rubidium-86 distribution in, after foliar or root uptake, 21:9006(R) (EUR-3163.e)
rubidium-86 uptake from, by insects, 21:8746 (ORNL-4007, pp 43-119)
ruthenium-106 content in, consumed by insects in White Oak Lake area, 21:32651 (ORNL-P-3081)
sampling of, for ecological studies, 21:8746 (ORNL-4007, pp 43-119)
scandium-46 uptake by, effect of soil type on, 21:16039
selenium distribution in, 22:51325
selenium transport in, 22:51325
selenium-75 content in, use of activation analysis for measurement of, 21:34650(R) (BNWL-322)
sensitivity to heat in Biscayne Bay, Florida, 23:29425(R) (TID-24951)
separation of strontium-90 from, evaluation of methods for, 25:15753
silver-108m content of, at Bikini and Eniwetok atolls following nuclear testing during 1958, 25:42377
soil relations to, review of use of radioisotopes in determining, 24:23089
space flight effects on genetics and physiology of, effects of seed exposure during space flight on, 22:45488
species in Nevada Test Site area, estimation of numbers of, 21:20112 (UCLA-12-612, pp 77-93)
species of potted, effects of, on cesium-137 and strontium-89 uptake, 22:43313 (RISO-170)
strontium to calcium discrimination factors for, in aquatic environment, 21:8669(R) (CONF-660507-34)
strontium uptake by, effects of soil organic matter on, 22:27901
strontium-85 translocation in, effects of foliar application on, 21:22314
strontium-85 uptake and release by aquatic, in aquaria and rivers, 22:33815(R) (ORO-490-14)
strontium-85 uptake and retention by, effects of fertilizer, soil type, species, and stable strontium on, 23:50278(R) (ORO-3459-4)
strontium-85 uptake by Puerto Rican, 21:41010 (BMI-171-001)
strontium-85 uptake by, in streams, 22:10356 (ORO-490-12)
strontium-89 uptake by forage, effects of soil properties on, 21:1723
strontium-89 uptake by potted, effects of calcium/strontium ratio, soil type, and species on, 22:43313 (RISO-170)
strontium-90 accumulation in freshwater, in relation to calcium content of water, discrimination coefficient for, 25:29452
strontium-90 concentration factors for marine, of Soviet Union, 24:11901(T) (AEC-tr-7128, pp 39-49)
strontium-90 contamination of food chain, correlation between aerial and soil sources in relation to rate of fallout, 25:24079
strontium-90 contamination of, physical and chemical factors affecting, 21:43409
strontium-90 content in arctic, effects on content in food chain, 21:12798
strontium-90 content in marine, in Faeroe Islands during 1965, 21:16340 (RISO-131)
strontium-90 content in Pelindaba, South Africa, 22:180 (PEL-89)
strontium-90 content in tissues of, methods for radiochemical analysis of, 21:43402
strontium-90 content in, in environs of Safari I, 21:10878(R) (PEL-123)
strontium-90 content in, in German Democratic Republic, 1961 through 1965, 21:28502
strontium-90 content in, in Greenland, determination of, 21:20182 (RISO-132)
strontium-90 content in, in New Mexico, survey of, 21:32654 (SC-DC-67-1844)
strontium-90 content of agricultural, in East Germany, effects of fallout from nuclear weapons tests on, 25:57986
strontium-90 content of Danish, 1966, 22:10358 (RISO-155)
strontium-90 content of Danish, 1966, 22:10357 (RISO-154)
strontium-90 content of Zegrzynski artificial lake, Poland, 1963 and 1964, 23:47629
strontium-90 content of, in Black Sea during 1965 and 1966, 22:33805 (A-AC-82/G/L-1194)
strontium-90 content of, in comparison to stable strontium, 23:24585
strontium-90 content of, in Finland, 21:41378 (CONF-660827-2)
strontium-90 content of, in Greenland, 1966, 22:10359 (RISO-156)
strontium-90 content of, in West Slovakia during 1963 and 1964, 21:8732
strontium-90 deposition on, in Hungary, 1962 to 1966, 21:28500
strontium-90 deposition on, transport of, to milk, 21:14645
strontium-90 distribution in Arctic region, 25:37497
strontium-90 distribution in, after foliar or root uptake, 21:9006(R) (EUR-3163.e)
strontium-90 sorption by marine, from fallout in seawater, 21:10827
strontium-90 uptake by, 21:36603
strontium-90 uptake by, 21:43408
strontium-90 uptake by, 23:7627(R) (COO-414-8)
strontium-90 uptake by aquatic, in relation to distribution in ecosystem, 24:7778
strontium-90 uptake by freshwater, in relation to uptake of stable strontium, 25:46692
strontium-90 uptake by root crop and vegetable, effects of chemical properties of soil on, 24:46564
strontium-90 uptake by, during 1965 to 1969, 25:11050
strontium-90 uptake by, effects of calcium content in soils on, 23:35329
strontium-90 uptake by, effects of calcium on, 21:43325
strontium-90 uptake by, effects of, on removal from soil, 24:9807

strontium-90 uptake by, factors affecting, 21:32648 (NP-16523)
strontium-90 uptake by, from soils, 23:9910(R) (EUR-4080)
strontium-90 uptake from soil in Sweden, effects of organic matter on, 21:22237 (FOA-4-4485-4623)
succession of old-field, in Savannah River area, 21:14619
succession on flood plain, effects of nuclear explosion on secondary, 22:23480(R) (ORO-2412-7)
sulfate uptake by, effects of sulfur dioxide content in atmosphere on, 21:41346
synthesis of RNA in higher, phosphorus-32 tracer study of precursors in, 23:35581(R) (COO-1377-10)
tantalum-182 uptake by, effect of soil type on, 21:16039
thermal environment around shade-producing, effects on earth—air energy exchange mechanism, 23:11374 (BNWL-715-3, pp 184-90)
toxicity of tritium-labeled thymidine on genetic material of, 22:51555
trace element content in, determination of, by neutron activation analysis, 22:17049
tracer studies of calcium, sulfur, and zinc utilization by, in relation to soil transport, 25:52017 (A/CONF.49/P-537)
tritium content in, at Sedan site, 21:28446 (UCRL-70292)
tritium uptake by Sedan crater soil, 23:45434 (UCRL-71867)
tumor growth on, tracer studies of, 21:20425 (STI/DOC-10/66)
tungsten-181 content in off-site, following Schooner Event, (E), 25:57574 (PNE-524)
tungsten-185 uptake by, effect of soil type on, 21:16039
uptake of antimony-124 by, effect of soil type on, 21:16039
uptake of cesium-137 by, 21:8565 (ORNL-4007, pp 1-41)
uptake of chlorine-36-labeled DDT by, in marsh ecosystem, 21:34626 (COO-1358-3)
uptake of iodine-132-labeled methyl iodide by, 21:6411
uptake of neutron activation products from Project Sedan by, 21:16039
uranium content of marsh, effects of humidity on, 25:13116
uranium content of, of New Zealand in relation to deposits, 24:34305
uranium uptake by, from soil and surface water, 21:1727
uranium-238 content in, in New Mexico, survey of, 21:32654 (SC-DC-67-1844)
use of extract of, as radioprotective agent, 21:16423
water evaporation from, in arid regions, methods for measurement of, 22:23350
water uptake by, effects of root development on soil, 22:23352
yttrium-90 content in, in New Mexico, survey of, 21:32654 (SC-DC-67-1844)
zinc-65 content of, in Columbia River estuary, 22:45469
zinc-65 distribution in, after foliar or root uptake, 21:9006(R) (EUR-3163.e)
zinc-65 distribution in, of aquatic ecosystems, 22:14980
zinc-65 uptake by, in aquatic environment, 23:20143 (COO-1499-3)

Plants (Fuel Reprocessing)
see Radiochemical Processing Plants

PLANTS (INDUSTRIAL)
see also Electromagnetic Separation Plant
see also Gaseous Diffusion Plants
see also Power Plants
see also Radiochemical Processing Plants
see also Uranium Ore Processing Plants
ammonium uranate content in air of industrial, recommendations regarding maximum permissible, 25:16119
authorization for construction of Italian nuclear, review of Italian procedures for, 25:41979
description of fuel cladding fabrication, at Norwegian Institute for Atomic Energy, 25:13645
description of uranium dioxide pellet production, 23:29040 (JEN-182-DMe/I-17).
design and construction of Eurex, 23:31450 (EUR-4217)
design for bitumen coating of highly radioactive concentrates, 23:31448 (CEA-R-3734)
design for fixation of high-level liquid wastes in glass, 24:9627
economic analysis of, for production of ceramic fuel elements, 24:9569
equipment for, computerized simulation models for prediction of requirements for, 25:10757 (RFP-1527)
operation of Columbia, S. C., for fabricating Zircaloy-clad rod-type uranium dioxide fuel elements, 25:46584
safeguards systems for fuel fabrication, rapid response diversion detection in, 25:21340
safeguards systems for fuel fabrication, theoretical studies of accuracy of, 25:21334
safeguards systems for Japanese fuel fabrication, development of automated, 25:51746 (A/CONF.49/P-265)
safeguards systems for uranium fuel fabrication, nuclear process simulation model for evaluating, 25:21335
safeguards systems for, mathematical model for evaluating efficiency of, 25:51844
safeguards systems in US nuclear, evaluation of accounting methods for, 25:21316
safety in Japanese fuel fabrication, methods and standards for, 25:21376
size of nuclear fuel fabrication, PRICE and START computer programs for determination of optimum, 23:7665 (ORNL-TM-2346)

PLASMA
(Ionized gas)
see also Blood Plasma
see also Electric Arcs
see also Electron Gas
see also Ion-Acoustic Waves
see also Lymph
see also Pinch Effect
see also Plasma Accelerators
absorption coefficient for hot, intensity dependence of inverse bremsstrahlung, (T), 22:48120
absorption coefficient measurement by gas lasers, 22:41567
absorption coefficient of homogeneous nonequilibrium, (T), 21:44096
absorption coefficients and opacities for hydrogen, at high pressures, (T), 24:8461 (N-69-39187)
acceleration and shock wave formation by electromagnetic force fields, 25:14274
acceleration by focused laser beams, single-cycle, (T), 25:40651
acceleration by high-frequency fields, calculation of self-consistent field in, 21:25135
acceleration by moving current layer in theta pinch, (E), 25:7382 (NP-18539)
acceleration by radiation amplification, estimates, (T), 23:16805
acceleration calculations from scalar potentials, 24:23976 (MATT-769)
acceleration in axially nonuniform magnetic fields, space-charge, (T), 23:3508
acceleration in axisymmetric diverging magnetic fields, dipole moment theory for, 21:11628 (NASA-TN-D-3782)
acceleration in coaxial channels, (T), 23:1469
acceleration in electric discharge by self-induced magnetic field, 21:42127
acceleration in electric fields, variational calculation of, (T), 22:11455
acceleration in magnetic mirror, stochastic, (T), 22:17627
acceleration in rf fields, review, (E/T), 21:44022
acceleration of argon, by propagating current sheets, 22:31843
acceleration of cylindrical shell in presence of magnetic field, stability of, (T), 25:30547
acceleration of hydrogen, in strong electric fields, (E), 21:33459
acceleration of ions in ion cyclotron resonance-heated, in nonuniform magnetic fields, (T), 24:12808
acceleration of laser-produced, (T), 22:9383(T) (NP-tr-1605)
acceleration of plasmoids, method for, 22:31783
acceleration of stellar, to ultrarelativistic velocities, (T), 24:4887
acceleration of, conical z-pinch gun for, 21:27180
acceleration of, effect of intensive mass transfer on integral characteristics of electrodynamic, 24:17925
acceleration of, relaxation processes in electrodynamic, (T), 24:28290
acceleration of, time-of-flight analysis of, 21:27192
acceleration over sunspots, (T), 23:10397
acceleration with traveling electromagnetic waves, (E), 22:50173
admittance in uniform rf electric fields, (E/T), 22:5809(R) (ANL-7354)
alpha particle effects on low-β, in thermonuclear reactors, 24:3408
alpha particle reactions with, optical emission from slowing down, 22:1245
amplification effects in partially ionized, collision-induced, (T), 24:26210
antenna immersion in hot, properties of oscillating dipole, (T), 23:12838
antenna immersion in isotropic compressible, radiation from dipole, (T), 25:14275
antenna immersion in isotropic, noise spectra in, (T), 23:42296
antenna impedance in anisotropic, (E), 23:18637
antenna impedance in cold, with perpendicular magnetic field, (T), 23:12801
antenna impedance in compressible, cylindrical, (T), 23:20877
antenna impedance in warm, (T), 22:9285
antenna theory in magnetized, quasi-static, (T), 23:20876
antennas in isotropic, impedance and radiation patterns in, (E/T), 24:37444
antennas in magnetized, radiations from dipoles in, (T), 24:37350
antennas in magnetized, vlf radiation resistance of dipole, (T), 24:32761
atom densities in helium—neon, created by products of ^{10}B(n,α) reaction, metastable, (E), 24:32829
atom emission from high temperature, flux of, (T), 25:30514 (JAERI-Memo-4243)
atomic beam interactions with magnetic barrier, conditions affecting gradient of magnetic field, (T), 24:12819(T) (SC-T-70-4002)
atomic beam interactions with, excitation of hydrogen, 22:5329(T) (UCRL-Trans-10139)
atomic beam interactions with, resonant charge exchange and ionization cross sections for, 21:18439
atomic beam scattering by, collective effects from, 22:50184
atomic energy levels from alpha-particle-produced, metastable, (E/T), 25:40620
atomic energy levels in, theory of critical screening radius for, (T), 25:52818
atomic metastable densities in helium, neon, and mixed helium—neon, in neutron environment, (E/T), 25:59003
atomic properties of, basic data on, 21:18617
attenuation in Ramus II device, use of ferrite resonance switch for, 23:12893 (NP-17759)
beam bunches in magnetic bottles, electrodynamics of extended charge structures for, 23:34564
beam interactions in partially ionized, nonlinear effects of, (T), 22:24854 (IA-1128, pp 12-20)
beam interactions with electrons in, mean cross sections for ionization by neutral, (T), 24:1289
beam interactions with, fast randomization of electron gas by trapped electro—acoustic waves from, (T), 23:12791
beam interactions with, lithium, (E), 21:41751(R) (AD-646244)
beam scattering from, collective effects in atomic, (T), 23:25334 (AD-680201)
bibliography, 21:29187 (AED-C-03-06(Pt.1)(Vol.2))
bibliography, 22:48074 (AED-C-03-21)
bibliography of reports and publications from Princeton Laboratory, 21:18614 (MATT-1(6th Ed.))
bibliography of Stanford publications, 22:50127 (SU-IPR-255)
bibliography of translations available at Culham Lab, 23:30516 (CLM-LM-3/69)
bibliography on, 21:18618
bibliography on, 21:18613 (AED-C-03-04)
bibliography on, 21:29188 (AED-C-03-07(Pt.1)(Vol.2))
bibliography on, 21:42011 (AED-C-03-08)
bibliography on, 22:2998 (AED-C-03-11)
bibliography on, 22:2999 (AED-C-03-12)
bibliography on, 22:5301 (AED-03-13)
bibliography on, 22:7254 (AED-C-03-13)
bibliography on, 22:13425 (AED-C-03-14)
bibliography on, 22:22118 (AED-C-03-16)
bibliography on, 22:26348 (AED-C-03-17)
bibliography on, 22:31784 (AED-C-03-18)
bibliography on, 22:36880(R) (N-68-16284)
bibliography on, 22:36879 (AED-C-03-19)
bibliography on, 22:52720 (AED-C-3-22)
bibliography on, 23:1354 (AED-C-03-23)
bibliography on, 23:6966 (AED-C-3-24)
bibliography on, 23:10598 (AED-C-3-25)
bibliography on, 23:34366
bibliography on, 23:34367
bibliography on, 23:36638
bibliography on, 23:36639
bibliography on, 23:36637
bibliography on, 23:36641
bibliography on, 23:42219
bibliography on, 23:42221
bibliography on, 23:44378
bibliography on, 23:46447
bibliography on, 24:1367
bibliography on, 24:1368
bibliography on, 24:6506
bibliography on, 24:6505
bibliography on, 24:10494
bibliography on, 24:12776
bibliography on, 24:12775
bibliography on, 24:17875
bibliography on, 24:17874
bibliography on, 24:17871
bibliography on, 24:23941
bibliography on, 24:28222
bibliography on, 24:28223
bibliography on, 24:32805 (TID-3557(1969 Suppl.))
bibliography on, 24:32807
bibliography on, 24:35367
bibliography on, 24:42641
bibliography on, 24:51599
bibliography on, 25:1155
bibliography on, 25:1156
bibliography on, 25:11857
bibliography on, 25:17120
bibliography on, 25:17119
bibliography on, 25:25079
bibliography on, 25:27667
bibliography on, 25:27668
bibliography on, 25:30454
bibliography on, 25:36082
bibliography on, 25:40581
bibliography on, 25:52766
bibliography on, 25:52767
bibliography on, 21:42013 (AED-C-03-10)
bibliography on, 21:42012 (AED-C-03-09)
bibliography on, 22:15503 (AED-C-03-15)
bibliography on, 22:46094 (AED-C-03-20)
bibliography on, 23:18570 (AED-C-3-26)
bibliography on, 23:51589 (SU-IPR-333(Rev.))
bibliography on, 24:32806
bibliography on, 24:45217
bibliography on chemistry and physics of high-temperature, 21:37451 (NP-16908)
bibliography on computer simulation of, 22:3046 (IPPJ-54)
bibliography on controlled fusion and plasma research, 25:33202 (TID-3557(1970 Suppl.))
bibliography on controlled fusion and plasma research, 24:49103 (TID-3557(1967-68 Suppl.))
bibliography on fusion technology, 23:23066 (IPP-4/56)
bibliography on high-temperature chemistry and physics of, 21:21916 (NP-16421)
bibliography on high-temperature chemistry and physics of, 21:16915 (NP-16583)
bibliography on high-temperature chemistry and physics of, 22:17608 (NP-17283)
bibliography on high-temperature chemistry and physics of, 22:44064 (NP-17580)
bibliography on high-temperature chemistry and physics of, 23:5367 (NP-17683)
bibliography on instabilities in, 25:49910 (AD-722085)
bibliography on laser uses in plasma physics, 23:30526 (STI/PUB-21/35)
bibliography on plasma physics, 23:27601
bibliography on plasma physics, 24:3294
bibliography on plasma physics and fusion reactors, 24:40034
bibliography on plasma physics and fusion reactors, 24:51600
bibliography on plasma physics and fusion reactors, 25:5067
bibliography on plasma physics and fusion reactors, 25:11856
bibliography on plasma physics and fusion reactors, 25:11858
bibliography on plasma physics and fusion reactors, 25:22467
bibliography on plasma physics and fusion reactors, 25:22468

bibliography on plasma physics and fusion reactors, 25:36081
bibliography on plasma physics and fusion reactors, 25:52768
bibliography on plasma physics and fusion reactors, 25:52769
bibliography on plasma physics and fusion reactors, 25:58955
bibliography on Stanford reports, papers, and conference presentations on, 22:5000 (SU-IPR-190)
bibliography on tokamak devices, 25:49858 (IPP-6/93)
book: Advances in High Temperature Chemistry, 25:29081
book: Advances in Plasma Physics, Vol. 2, 24:3140
book: Advances in Plasma Physics. Vol. 3, 24:10495
book: An Introduction to Magneto-Fluid Mechanics, 21:37271
book: Arc Physics, 23:36664
book: Atomic Collisions and Elementary Processes in Plasma (in Russian), 25:43349
book: Collective Oscillations in a Plasma, 21:27194
book: Electric Probes in Plasmas, 24:15280
book: Electric Propulsion, 23:20952
book: Electrical Probes for Plasma Diagnostics, 24:45231
book: Electrodynamics of Particles and Plasmas, 24:23983
book: Electrodynamics of Plasmas, 22:20018
book: Electromagnetics and Plasmas, 22:39114
book: Electron Waves and Resonances in Bounded Plasmas, 23:5395
book: Electronic Processes in Gases and Solids, 22:26431
book: Electrons, Ions, and Waves, 21:29286
book: Flow Equations for Composite Gases, 24:40033
book: Fundamentals of Gaseous Ionization and Plasma Electronics, 25:52794
book: Glow Discharge and an Introduction to Plasma Physics, 21:7289
book: High-Frequency Plasma Properties, 21:37408
book: High-Frequency Properties of Plasma, 23:32359
book: High-Temperature Thermal Physics, 24:3351
book: Instrumentation for High Speed Plasma Flow, 21:2218
book: Introduction to Dynamics of Rarefied Gases, 22:20017
book: Introduction to Electrical Discharges in Gases, 21:23220
book: Introduction to Plasma Physics, 23:42220
book: Introduction to the Spectroscopy of Plasmas, 22:19959
book: Kinetic Equations of Gases and Plasmas, 21:23210
book: Kinetic Processes in Gases and Plasmas, 24:15294
book: Lectures on Plasma Diagnostics, 22:46126
book: Lectures on Plasma Physics, 22:36945
book: Linear Transport Theory, 22:20104
book: Low-Temperature Plasma, 22:17698
book: Low-Temperature Plasma Generators, in Russian, 23:48916
book: Magnetic Traps, 24:17873
book: Magnetic Traps, Third Edition, 23:5378
book: Magneto-Fluid Mechanics, 21:31303
book: Methods in Computational Physics; Advances in Research and Applications, Vol. 9. Plasma Physics, 24:49154
book: Methods of Experimental Physics. Vol. 9. Plasma Physics. Part A, 25:27689
book: Methods of High-Speed Measurements in Gas Dynamics and Plasma Physics (translated from Russian), 23:34390(T) (N-69-19881)
book: Methods of Measuring Velocities in Gasdynamics and Plasma Physics, 22:31800
book: Microwaves, 24:35366
book: Nonlinear Effects in Plasma, 22:11468
book: Nonlinear Plasma Theory, 23:36684
book: Phase-Space Dynamics of Particles, 23:19097
book: Physical Processes in Electromagnetic Shock Tubes, 22:46158
book: Physics of Gas Discharge Plasma, 25:3076
book: Physics of Gas-Discharge Plasmas, 24:15262
book: Plasma Chemistry in Electrical Discharges, 22:20016
book: Plasma Confinement in Stellarators, 23:3449
book: Plasma Diagnostics, 23:10610
book: Plasma Diagnostics, in Russian, 23:46458
book: Plasma Dynamics, 24:45216
book: Plasma in the Universe and the Laboratory, 23:23062
book: Plasma Physics, 22:20019
book: Plasma Physics, 22:46097
book: Plasma Physics, 24:23939 (EUR-4268)
book: Plasma Physics and Problems of Controlled Thermonuclear Synthesis, 25:58957
book: Plasma Physics in Theory and Application, 21:9610
book: Plasma Physics: Collective Processes in Plasma and Turbulent Heating, 22:26432
book: Plasma Physics, in Czech, 22:1244
book: Plasma Physics: Issue 2; Collection of Articles, in Russian, 24:35368
book: Plasma Physics. Vol. 2. Weakly Ionized Gases, 22:34573
book: Plasma Spectroscopy, 23:39447
book: Plasma State, 25:45444
book: Plasma Technology, 23:46449
book: Plasma; The Fourth State of Matter, 22:50128
book: Principles of Cosmic Electrodynamics, 21:41748
book: Problems of Plasma Theory, 22:15542
book: Propagation of Electromagnetic Waves in Plasma, 22:15543
book: Propagation of Electromagnetic Waves in Plasma, 22:29524
book: Properties of Gases at High Temperatures, in Russian, 25:9444
book: Radiation Processes in Plasmas, 21:25155
book: Rarefied Gas Dynamics, Vol. 1, 24:49105
book: Rarefied Gas Dynamics, Vol. 2, 24:49106
book: Results of Plasma Physics and Gas Electronics. Vol. I, 22:22142
book: Reviews of Plasma Physics. Vol. 5, 24:37424
book: Shock Waves in Gas Plasma, 23:32360
book: Sources of Plasma Physics, Vol. 1, 25:49901
book: Spectral Line Formation, 22:24021
book: Spectroscopic Gas Temperature Measurement; Pyrometry of Hot Gases and Plasmas, 21:37438
book: Statistical Theory of Nonequilibrium Processes in Plasma, 21:37492
book: Studies of Plasma Clusters, 21:37407
book: Studies of Plasma Clusters, 23:46448
book: Study of Plasma Clusters, in Russian, (T), 21:3867
book: Technology of Strong Pulsed Currents and Magnetic Fields, 25:30604
book: The Magnetohydrodynamic Theory in Plasma Physics, 21:23063
book: The Ultra-High-Frequency Methods of Investigation of Plasma, 23:5394
book: Theoretical Methods in Plasma Physics, 22:5304
book: Theory of Plasma Instability, Vol I. Instability of Uniform Plasmas (in Russian), 25:25136
book: Topics in Plasma Diagnostics, 25:25096
book: Use of Lasers in Plasma Research, in Russian, 24:47209
book: Vacuum Ultraviolet Spectroscopy, 22:24019
book: Waves in Plasmas, 23:27620
boundaries of, heat flow calculations through Langmuir, 21:27177
boundary conditions between dielectric and compressible, 21:44097
boundary conditions for adsorbing—emitting electrodes in, 24:23955
boundary conditions for magnetized, at plane electrode, (T), 22:41624
boundary conditions for stability theory of, 25:1232
boundary dynamics of slabs of, electron, (T), 21:39972 (TID-23971, pp 123-212)
boundary dynamics of, ion motion in, (T), 24:28298
boundary dynamics of, one-dimensional, 23:1436 (N-68-30031)
boundary effects on stability of, (T), 24:8480
boundary interactions in discharge, properties of, 23:1432 (N-68-25821)
boundary interactions with moving, kinetic theory for, (E/T), 21:37448 (NASA-CR-868)
boundary layer between cold, and confined magnetic field, (T), 23:3394
boundary layer between thermionic electrode and, theory, 23:30380(T) (AEC-tr-7044)
boundary layer calculations in transverse magnetic fields, 22:26294
boundary layer computations for, grid method for, 21:44033 (NASA-SP-153, pp 75-83)
boundary layer dynamics in, (T), 22:9308 (TID-24203, pp 73-134)
boundary layer equations for partially ionized argon, laminar, 22:3076
boundary layer in magnetic bottles, stationary waves in, (T), 23:12848
boundary layer interactions with vacuum walls, wall material effects on, 25:30496 (EUR-4593, pp 461-70)
boundary layer near cathode, nonequilibrium, (T), 25:45474
boundary layer near electrodes, approximation method for calculating, 25:59051
boundary layer of magnetically confined, Ferraro—Rosenbluth model for, 21:15160
boundary layer of microwave-discharge, skin-slab, 22:13475
boundary layer of microwave-heated magnetic mirror-confined, electron, 21:44027
boundary layer of nonequilibrium, electron density and temperature in, (E), 25:27685
boundary layer of turbulent, electron density in, 22:5313
boundary layer of two-temperature, with electrodes in MHD channel with crossed electric and magnetic field, (T), 23:42034
boundary layer of, in external magnetic fields, (T), 22:34692
boundary layer on electrodes in completely ionized, solution of equations with components at different temperatures for, 25:40653
boundary layer over cathode, nonequilibrium, (T), 25:43361 (N-71-12679)
boundary layer structure at conducting sphere, (E), 25:43356
boundary layer structure in shock-produced argon, (E/T), 22:3118
boundary layer structure of neutral anisotropic, in magnetic fields, (T), 24:19894
boundary layer structure of shock-produced argon, 21:5267 (N-66-30595)
boundary layers for conducting wedges in anisotropic, intrinsic loss in, (T), 22:15530
boundary layers in capacitor, space charge, (E/T), 23:10651
boundary layers in weakly ionized, collision-dominated, (T), 24:32834
boundary layers involving nonequilibrium ionization in, magnetohydrodynamic, 22:46137(R) (N-68-23191)
boundary layers near cathode in magnetohydrodynamic channel flows, (E), 25:47374
boundary layers of magnetic-combined, electron acceleration in, 22:9369
boundary layers of, stability of, (T), 22:31881
boundary layers of, temperature variations at discontinuous, (T), 22:9366
boundary layers of, transition radiation at vacuum, (T), 25:43367
boundary model for, charge separation effects in, (T), 24:3362
boundary of liquid—gas interface, dynamic stabilization of interchange instability, (T), 24:19909
boundary of two semi-infinite, temperature relaxation in, (T), 23:14795
boundary of, hydromagnetic equilibria of vacuum, (T), 25:27691
boundary oscillations outside cylinder of rarefied, electric potential, (T), 24:1410
boundary problem at air junction in parallel-plate waveguide, 24:51669
boundary problems at plane interface between vacuum and Vlasov, (T), 25:45470 (AD-719926)
boundary problems in, finite-difference solutions for, 25:9460
boundary problems in, solution by method of steepest descent, 23:1424 (LA-3990, pp C5.1-4)
boundary sheath criterion for, ion speed effects on, (T), 25:19677
boundary sheath criterion in anisotropic, generalization of, (T), 24:51672
boundary sheath dynamics in weakly ionized, microscopic model for collision-dominated, (T), 25:19673 (DLR-FB-69-78)
boundary sheath evolution near electrodes in, (T), 24:49205
boundary sheath growth in low-pressure, (T), 25:30531
boundary sheath growth in low-pressure, limits of, (T), 25:14299
boundary sheath growth in mercury discharge, (E), 23:20905
boundary sheath in argon glow discharge, (E/T), 24:17897
boundary sheath in magnetic fields, kinetic theory of, 25:43378
boundary sheath in positive column discharges, (T), 25:17178
boundary sheath in weak magnetic fields, (T), 24:26200
boundary sheath kinetics between two, theory of, 25:14320
boundary sheath near cathode in disturbed, (T), 25:59035
boundary sheath near electrodes in low-temperature, (T), 24:3363
boundary sheath near floating plate in argon arc, collisionless, (E), 24:21786
boundary sheath near pulsed transparent grid, ion distribution function for, (T), 25:43369
boundary sheath near spherical metallic probe, effects on admittance, 25:22497
boundary sheath of, collision and ionization effects in, (T), 23:12831
boundary sheath of, ion acceleration in, (E/T), 25:17147
boundary sheath of, ion—acoustic analysis of, (E), 23:18634
boundary sheath of, particle structure and orbit in, (T), 23:32430
boundary sheath properties in quadrupole and hexapole magnetic fields, (T), 24:12829
boundary sheath response to rf potentials, linear and nonlinear, 25:40616
boundary sheaths for, capacitance and thickness of space charge at wall, 25:33254
boundary sheaths in, transient and Langmuir, (E/T), 23:34400 (ORNL-4401, pp 113-44)
boundary space charge sheaths of, theory for, 21:18747
boundary structure of collisionless, with transverse flow, (T), 22:17683
boundary theory near electrodes, collisionless, 21:7249
boundary value problem for two-stream instability in spherical geometry, 25:14339
boundary—sheath interactions in argon and cesium discharge, (T), 23:12827
boundary-value problems for, numerical solutions using reflection, 25:33265 (NYO-1480-167)
boundary-value problems in, double Laplace transformations for, 25:11889
bremsstrahlung emission from weakly ionized, (E), 24:37452
bremsstrahlung from extreme relativistic, spectrum and energy losses from ion-electron, (T), 22:21837
capacitor immersion in collisionless, Bernstein mode excitation by plane grid, 25:17238
cavity formation by magnetic line currents in, 23:30406
cesium-ion beam interactions with cesium, ion acoustic waves from, (E), 21:3895 (N-66-29297)
cesium-ion beam interactions with cesium, oscillations from, 21:27143 (N-67-16618)
characteristics of relativistic, (T), 24:51654 (AD-708182)
charge exchange of dense current in ultrasonic magnesium jet, (E), 25:3079
charge-particle motion in weakly turbulent magneto-, energy losses of, (T), 21:7184
charged impurities in magnetic fields, quantum theory of static shielding of, (T), 24:1409
charged particle acceleration in interplanetary, 23:41854
charged particle acceleration in turbulent, (T), 21:11637
charged particle acceleration in turbulent, (T), 22:3106
charged particle beam interactions with hot, oscillations from, (T), 22:1231
charged particle beam interactions with magneto, oscillations from, (T), 22:39101
charged particle beam interactions with nonlinear, radiations from, (T), 25:56168
charged particle beam interactions with, dispersion equation for, 22:44118
charged particle beam interactions with, hydromagnetic instabilities from, (T), 22:26308
charged particle beam interactions with, statistical analysis of hf oscillations from, 22:52794
charged particle beam interactions with, steady-state oscillations in, 22:44145
charged particle beam scattering by current-carrying, (T), 22:3069
charged particle distribution in, in potential well, 21:46358
charged particle energy losses in, calculation of, 21:44020 (ORNL-4150, pp 1-35)
charged particle energy spectra in, disordered, 21:44093

charged particle equilibrium configuration and self-consistent field with axial symmetry, 22:3043 (IPPCZ-64)
charged particle interactions with electron, stopping power of, (T), 22:26375 (BNL-10300)
charged particle interactions with, application to decay of plasma wave echoes, (T), 22:44170
charged particle interactions with, stochastic acceleration in, 22:34647 (N-68-11000)
charged particle kinetics in stochastic electromagnetic fields, 22:9494
charged particle motion in constant fields, adiabatic invariance in, (T), 23:25358
charged particle motion in helical fields, effects of electric fields on, (T), 23:42286(T) (AEC-tr-7058)
charged particle motion in inhomogeneous magnetic fields, nonadiabatic behavior of, (T), 23:32426
charged particle motion in isotropic, radiations from, 21:44103
charged particle motion in linear and toroidal multipole fields, nonadiabatic, (E/T), 25:5091
charged particle motion in magnetic mirror fields, limits of adiabatic theory for, 24:10500
charged particle motion in magnetic mirror-confined, (E), 22:3005(T) (UCRL-Trans-1358)
charged particle motion in mirror-confined, with progressive wave at electron cyclotron resonance, 21:25102 (CEA-R-3115)
charged particle motion in slightly-damped sinusoidal potential wave, (T), 23:36701
charged particle motion in spatially modulated magnetic field, invariants in, 23:5375
charged particle motion in superposed Heliotron and biconical cusp fields, guiding center of, (T), 25:14330
charged particle motion in toroidal stellarator fields, (T), 22:9280
charged particle motion in two-dimensional Maxwellian, test, (T), 25:49899
charged particle radiation losses in, test, (T), 22:9344
charged particle scattering by Alfven waves in, coefficients for, 21:25145
charged particle shielding in, regions of validity for Debye and inverse third-power models for test, 24:17942
charged particle spiraling in cold, spectra of radiation from, (T), 21:16749
charged-particle acceleration by electromagnetic pulse, relativistic, (T), 25:27715
charged-particle acceleration by stochastic electrostatic waves in, (T), 24:35501
charged-particle acceleration by strong electric fields, stochastic, (T), 24:1416
charged-particle acceleration in bounded, stochastic processes in, 22:34653 (TID-24491, pp 85-97)
charged-particle acceleration in nonuniform magnetic field, gyroresonant, (T), 23:18644 (CONF-680113-(Vol.2), pp 541-603)
charged-particle acceleration in turbulent, 22:39103
charged-particle acceleration in turbulent, Fermi statistical theory for, 21:15134
charged-particle acceleration in weakly turbulent, (T), 25:17182
charged-particle acceleration in, hf field effects on, 21:18732
charged-particle acceleration in, review of, 22:26418
charged-particle acceleration in, review of, (T), 21:18731
charged-particle beam interaction with, electrostatic surface-wave excitation in bounded, (T), 25:33331
charged-particle beam interactions in one-dimensional infinite geometry, (T), 23:32504(R) (SU-IPR-283)
charged-particle beam interactions with collisionless electron, test, (T), 24:30341
charged-particle beam interactions with electron, stability of, (T), 23:39497
charged-particle beam interactions with magnetized, instabilities from, (E), 23:23110
charged-particle beam interactions with magnetized, return current from relativistic, (T), 25:11886 (NYO-4077-1, Paper 4)
charged-particle beam interactions with magnetized, excitation of characteristic oscillations in, (T), 24:1431
charged-particle beam interactions with magnetized, parametric, (T), 25:17170
charged-particle beam interactions with magneto-, excitation of surface waves in, (T), 25:17189
charged-particle beam interactions with magneto-, quasilinear theory for, 21:16944
charged-particle beam interactions with magnetoactive, surface wave excitation in, (T), 24:28277
charged-particle beam interactions with nonequilibrium, lf echoes from, (T), 25:25194
charged-particle beam interactions with Ohmic, resistive instabilities from, (T), 21:27210
charged-particle beam interactions with quantum, theory of test particle, 22:5343
charged-particle beam interactions with quiescent, instabilities from, (E), 24:28249
charged-particle beam interactions with semi-infinite, double Laplace transformations for, 25:11889
charged-particle beam interactions with, collisional damping of hf instabilities from, (E), 24:28280
charged-particle beam interactions with, cyclotron wave excitation in, 22:3094
charged-particle beam interactions with, diagnostic use of, (T), 23:23084 (N-68-20940)
charged-particle beam interactions with, dispersion relations for, 24:40088
charged-particle beam interactions with, dispersion relations for oscillations from, (T), 23:44485
charged-particle beam interactions with, distribution function for, (T), 22:36930
charged-particle beam interactions with, effect of hf instabilities on production and heating in, (E), 23:42268
charged-particle beam interactions with, electromagnetic wave amplification in, (T), 22:26404
charged-particle beam interactions with, excitation by Cherenkov radiation from, (T), 23:36703
charged-particle beam interactions with, experimental control unit design for, 25:22510
charged-particle beam interactions with, finite dielectric insulator effects on, 21:23208
charged-particle beam interactions with, growth rates and stability limits for, (T), 25:17185
charged-particle beam interactions with, heating in, (T), 24:6515
charged-particle beam interactions with, hf electron oscillations from, (T), 21:16947
charged-particle beam interactions with, hf oscillations from, (E), 24:23970
charged-particle beam interactions with, hose instabilities from, 21:811
charged-particle beam interactions with, instabilities from, (T), 23:18652
charged-particle beam interactions with, instabilities from, (T), 22:5391
charged-particle beam interactions with, instabilities from, 21:15203
charged-particle beam interactions with, ion wave excitation in, (T), 21:20950
charged-particle beam interactions with, lf oscillations from, 25:27816
charged-particle beam interactions with, longitudinal oscillations from, (T), 21:16948
charged-particle beam interactions with, nonlinear instabilities in, (T), 23:48928
charged-particle beam interactions with, nonlinear properties of hf instabilities from, (E), 25:38421 (CONF-710607-59)
charged-particle beam interactions with, nonlinear theory for, 25:9466
charged-particle beam interactions with, nonlinear stabilization of instabilities from, (T), 21:16946
charged-particle beam interactions with, nonlinear theory of, 23:39478
charged-particle beam interactions with, optical emission from slowing down, 22:1245
charged-particle beam interactions with, oscillations from, (E), 23:42363
charged-particle beam interactions with, oscillations from modulated, 22:44177
charged-particle beam interactions with, oscillations from, (T), 22:11459
charged-particle beam interactions with, research on, (E/T), 21:16938
charged-particle beam interactions with, review of instabilities from, (E/T), 24:23961(T) (UCRL-Trans-10437)
charged-particle beam interactions with, spectral analysis of oscillations from, (E/T), 25:9535
charged-particle beam interactions with, time-resolved beam distribution functions in, (E/T), 23:32363
charged-particle beam interactions with, unified theory of relaxation in, ((T), 22:24304
charged-particle beam interactions with, vlf wave amplification in, (E), 25:35972
charged-particle beam interactions with, wave excitation in, (T), 25:17184
charged-particle beam interactions with, wave excitation and propagation in, (T), 21:16942
charged-particle beam interactions with, waves from, 22:17664
charged-particle beam motion in nonadiabatic magnetic fields, (T), 23:14790
charged-particle beam scattering on, coefficients for, (T), 21:9575
charged-particle beam scattering probability in, fast test, (T), 25:9467
charged-particle beam self-focusing in, rf defocusing of, (E/T), 23:23105
charged-particle diffusion in weakly turbulent stochastic fields, Fokker—Planck equation for, (T), 25:30520
charged-particle diffusion in, theory for test particle, (T), 24:42687
charged-particle distribution function for weakly ionized, energy, (T), 23:25340 (BMwF-FBK-69-3, pp 16.1-17)
charged-particle distribution functions for high-temperature, relativistic corrections to, (T), 23:27632
charged-particle distribution functions for relativistic, locally Maxwellian, (T), 23:25339 (BMwF-FBK-69-3, pp 15.1-30)
charged-particle distribution near charged spherical body in rarefied, (T), 24:8464
charged-particle distribution-function autocorrelations for monatomic, (T), 23:23155
charged-particle distributions in magnetic-mirror confined, spatially dependent Fokker—Planck equation for, (T), 24:10548
charged-particle drift motion and adiabatic invariance in varying magnetic fields, (T), 25:40647
charged-particle drift surfaces and magnetic surfaces in stellarator field, (T), 25:3128 (IPPJ-95)
charged-particle energy losses in isotropic, in hf electric fields, (T), 24:23962
charged-particle energy losses in magnetized, test-ion, (T), 24:35429
charged-particle energy losses in unstable, effects of dielectric constant and Brownian movement on, 24:47242
charged-particle energy losses in weakly nonlinear, (T), 23:20925
charged-particle equilibrium distribution in, (T), 23:34433
charged-particle interactions with anisotropic, field calculations for test, 24:35433
charged-particle interactions with turbulent, energy from, (T), 21:15156
charged-particle interactions with weakly nonlinear, longitudinal fields from, (T), 25:14313
charged-particle interactions with, diffusion and dynamical friction coefficients for test, (T), 23:44430
charged-particle interactions with, thermodynamics of, (T), 23:14773
charged-particle losses from contact-ionized, (E), 24:26183
charged-particle motion in axial magnetic fields, radial space-charge field effects on, (T), 21:11586 (CEA-R-3103)
charged-particle motion in axisymmetric magnetic mirror fields, single-particle, (T), 25:30516 (N-70-42698)
charged-particle motion in axisymmetric systems with toroidal electric fields, single, (T), 25:17122 (CLM-R-105)
charged-particle motion in circularly polarized wave packet, (T), 25:33348
charged-particle motion in cusped magnetic fields, adiabaticity of, (T), 23:30559
charged-particle motion in discharge, properties of, (E/T), 23:1401 (AD-670176)
charged-particle motion in electric and magnetic fields, guiding center approximation for, 21:27141 (AD-641281)
charged-particle motion in electromagnetic waves propagating in uniform magnetic fields, (T), 25:17186
charged-particle motion in external electromagnetic fields, (T), 23:46483
charged-particle motion in helical fields with equipotential coinciding magnetic surfaces, 22:44077 (NP-17586)
charged-particle motion in helical magnetic fields, effect of electric fields on, (T), 25:36084
charged-particle motion in helical magnetic fields, (T), 21:16899
charged-particle motion in hf electromagnetic fields, amplification of emissions from, (T), 23:46470 (NP-18007)
charged-particle motion in homogeneous magnetized, shell structure from, (T), 25:52816 (UUIP-724)
charged-particle motion in inhomogeneous magnetic fields, effect of radiation damping on, (T), 25:22524
charged-particle motion in inhomogeneous magnetized, radiations from, (T), 24:5172
charged-particle motion in inhomogeneous magnetostatic and hf fields, (T), 23:27637
charged-particle motion in inhomogeneous stationary, theory for test-, 25:19695
charged-particle motion in magnetic mirror traps, (T), 23:51597
charged-particle motion in magnetic mirror-confined, (T), 21:15093
charged-particle motion in magnetic mirror-confined, (T), 21:15092
charged-particle motion in magnetic mirrors, simulation of Fokker—Planck equation by random-walk approximation, 24:30338 (N-70-19813)
charged-particle motion in magnetic mirrors, undergoing cyclotron resonance, (T), 24:47239 (NYO-3782-4, App.16)
charged-particle motion in magnetized, radiation reactions from, 22:52812
charged-particle motion in magnetized, radiations from test, (T), 25:14325
charged-particle motion in magneto-, adiabatic, (T), 21:9535
charged-particle motion in magneto-, magnetic moment of, (T), 21:725
charged-particle motion in minimum-B fields, 22:44082
charged-particle motion in mirror fields with radial time-variant electric fields, 21:29226 (TID-23827, pp 141-216)
charged-particle motion in multiple-cusp magnetic fields, single, (T), 23:27635
charged-particle motion in nonequilibrium, electromagnetic field solutions for, (T), 23:23137
charged-particle motion in nonequilibrium, radiations from, (T), 25:3092
charged-particle motion in oscillating electromagnetic fields, (T), 23:23132
charged-particle motion in presence of finite-amplitude harmonic cyclotron waves, (T), 24:42688
charged-particle motion in resonantly perturbed magnetic fields, velocity diffusion in, 24:28294
charged-particle motion in self-consistent continuous spectrum of waves, (T), 25:17230
charged-particle motion in self-consistent standing potential wave, (T), 23:51672
charged-particle motion in superimposed homogeneous magnetic and Coulomb-type electric fields, (T), 24:40079
charged-particle motion in superposed Heliotron and biconical cusp fields, (T), 24:3365
charged-particle motion in toroidal and superimposed rotational magnetic fields, (T), 24:10544
charged-particle motion in toroidal theta and screw pinches, (T), 25:33214
charged-particle motion in, effects of mass transfer processes and resistance forces on, (T), 23:25349
charged-particle motion in, electric field effects on microturbulence in, (T), 23:44429
charged-particle motion in, electromagnetic radiations from, (T), 24:1412
charged-particle motion in, formation of Debye potential well in, (T), 25:56174
charged-particle motion in, radiation from, (T), 22:31819
charged-particle motion in, radiations from, (T), 21:7227
charged-particle motion in, shielding of slow test, (T), 24:8471
charged-particle motion in, single-field polarizing spectrophotometer for measuring, 21:17942(P)
charged-particle motion in, stability of, (T), 22:1225
charged-particle motion in, theory of test, 24:47258
charged-particle orbit approximation in periodic systems, straight-line, (T), 25:43373
charged-particle orbits in two electrostatic waves of arbitrary amplitude, (T), 25:9477
charged-particle pair distribution function for, (T), 23:23153
charged-particle positions in, strong correlations of, (T), 21:27185

charged-particle scattering and slowing down in, test, (T), 24:28281
charged-particle scattering in, effective cross sections for fast test, (T), 24:49144 (COO-1726-52)
charged-particle separator and analyzer for, design of, 21:749(P)
charged-particle shielding in, inverse third power law for test, 23:3494
charged-particle transport in nonisothermal, Ohm's law for, (T), 21:7251
charged-particle trapping by large-amplitude electron waves, (E), 25:33259
charged-particle trapping in static mirror fields, (T), 25:27674
charged-particle velocity distribution functions for, maximum entropy calculation of, 23:1377 (N-68-25920)
charged-particle-beam interactions with, nonlinear theory for relaxation in, 25:36130
charged-particle-beam interactions with, oscillations from modulated, (T), 23:3482
charged-particle-beam interactions with, summaries of conference papers on, 22:7311
chemistry of, 21:40875
chemistry of, review of Soviet research on, 22:12343(T) (JPRS-44048)
clustering in, (T), 21:3867
collapse in external growing magnetic fields, (T), 21:3869
collision coefficients and equilibrium relations for, 24:23991
collision coupling in warm compressible electron, growing-wave phenomena from, (T), 21:3848
collision frequency of electrons in, effect of finite ion size on, (T), 24:49174
collision integral for particles of disparate mass, 25:56179
collision integral for, in strong magnetic fields, derivation of, 21:29240
collision measurements in magnetized, by pulse response, 25:17144
collision operator for relativistic Lorentz, Fokker—Planck theory for, (T), 23:23154
collision processes in, quantum theory for linear and nonlinear, (T), 25:19687
collision processes in, spectral study of, 22:34642 (AD-666946)
collisional effects on Rayleigh—Taylor and Kelvin—Helmholtz instabilities in, 25:17195
collisional processes in, review of, 22:39131
collisions and oscillations in three-component, integral models for, 24:51681
collisions and velocity effects on electron density in, 21:2233
collisions in afterglow discharge, electron—neutral, 25:33282
collisions in alkali magneto-, drift modes from, 21:13525 (MATT-523)
collisions in arc-discharge, temperature effects on cross sections for, 21:44117
collisions in argon afterglow, ion conversion in, 22:41579
collisions in argon and hydrogen at 0.1 to 10 eV, neutral particle, (T), 24:51671
collisions in argon arc, energy exchange in, 22:9331
collisions in argon, frequency of electron—atom, (E), 22:22137 (TID-24331, pp 153-65)
collisions in barium, effects on density of, (E), 23:27603 (MATT-Q-26, pp 1-141)
collisions in barium, rates of electron—atom inelastic, (E), 22:24243 (MATT-Q-25, pp 118-65)
collisions in carbon, rate coefficients for helium-like, 22:9354
collisions in cesium, electron momentum transfer, (T), 21:29244
collisions in cesium-discharge, momentum transfer cross sections for electron-atom, (T), 22:26238
collisions in cold, inverse Compton, (T), 25:12537
collisions in contact-ionized cesium, charge-exchange cross sections for, (E), 24:25973
collisions in decaying helium, effects on neutral particle density, 22:39057 (CEA-R-3450)
collisions in dense beams, Coulomb, 25:36640
collisions in dense neutral, cross sections for atom—atom, (T), 22:29482
collisions in discharge column at immediate pressures, static theory for, 21:9585
collisions in discharge, spatially dependent relaxation of electron energy distribution for, (T), 25:47547
collisions in electric field immersed, model for electron—ion, (T), 21:2225 (MATT-441)
collisions in electron, Compton scattering in, (T), 23:36697
collisions in helium afterglows, inelastic, (E), 25:22516
collisions in helium and helium—mercury, cross sections for metastable, 24:32831
collisions in helium, ion production in atomic, (E), 23:42281
collisions in helium, transition rates and recombination in, (E), 23:27603 (MATT-Q-26, pp 1-141)
collisions in helium—neon, cross sections for transfer of excitation energy in, (E), 22:9035
collisions in high-current discharges, collective effects on heating in, (E), 24:37427(T) (LA-4382-TR)
collisions in high-temperature, apparatus for measuring, (E), 25:7374
collisions in hydrogen, cross sections for, (E), 23:36670 (IAE-1713)
collisions in hydrogen, energy losses in, (T), 23:44418 (N-69-29905)
collisions in laser-produced, Compton, 24:42670
collisions in laser-produced, ion, (E), 25:47529
collisions in loss cone, ambipolar potential effects on Coulomb, (T), 25:1198 (CEA-CONF-1609)
collisions in low-temperature helium, destruction of metastables in, (E), 25:56151(T) (SC-T-713064)
collisions in low-temperature neutral helium, rates of inelastic electron—atom, (E), 22:24242 (MATT-Q-25, pp 30-117)
collisions in low-temperature, effects on relaxation processes of interatomic, (T), 22:50172
collisions in low-temperature, elementary processes of, (T), 21:20958
collisions in magneto-, radiations from particle—wave, (T), 22:26405
collisions in multicomponent assembly, Fokker—Planck formalism for, 21:7243
collisions in nitrogen, effects of vibrational excitation on frequency of electron—molecule collisions in, (T), 25:27711
collisions in nitrogen, electron energy losses in, 21:37487
collisions in oxygen, excitation rate coefficients for, 21:37485
collisions in partially ionized, Boltzmann equation for nonelastic, (T), 23:25333 (AD-678627)
collisions in partially ionized, effects of nonelastic, (T), 24:15324
collisions in partially ionized, effects of nonelastic, (T), 24:15325
collisions in partially ionized, kinetic theory of, 22:17688
collisions in partially ionized, nonelastic, (T), 23:42292
collisions in Q devices, barium resonance line excitation in, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
collisions in quantum, bremsstrahlung emission in, (T), 22:1202
collisions in rotating, method and apparatus for producing fusion, 24:26238(P)
collisions in seeded, effects on nonequilibrium properties of, 21:35170
collisions in stationary solutions of Vlasov equation with external electric fields, 23:14788
collisions in thermionic diode, computer simulation of, 21:18491
collisions in turbulent weakly ionized, cross sections for, (T), 25:59039
collisions in turbulent, Coulomb, (T), 22:11446
collisions in turbulent, effects on nonlinear interactions of electrostatic waves of ion—ion, (T), 24:37466
collisions in turbulent, effects on nonlinear Langmuir wave interactions in, 21:37445 (JINR-P9-3373-2)
collisions in turbulent, effects on spectra of, 21:37446 (JINR-P9-3394-2)
collisions in turbulent, properties of, (T), 22:3088
collisions in two-component, collective variables in, 23:8627
collisions in two-temperature, level populations and inelastic losses from, 21:37476
collisions in unequal ion and electron temperature, effects on noncoherent scattering spectra, 24:47228 (CEA-N-1295)
collisions in uniform electric fields, (E), 23:32504(R) (SU-IPR-283)
collisions in weakly ionized lithium and mercury, theory of, 24:40082
collisions in weakly ionized turbulent magneto-, density fluctuations and longitudinal conductivity of, (E), 24:17911
collisions in weakly ionized, Boltzmann equation for, 21:11654
collisions in xenon, effects on lasing properties of, 21:42119
collisions in, asymptotic solution of Fokker—Planck equation for, (T), 23:20926
collisions in, binary and cloud, (T), 24:40086
collisions in, bremsstrahlung emission from electron—electron, 21:775
collisions in, bremsstrahlung radiations from, 23:1474
collisions in, collective oscillations from, (T), 25:33492
collisions in, computer analysis of, 21:3839 (N-66-29435)
collisions in, conference on, 21:20910
collisions in, cross sections for basic, (E/T), 25:3075 (CEA-CONF-1627)
collisions in, dc noise from electron—ion, (T), 25:14303
collisions in, diffusion in velocity space from ion—ion, (E), 24:8433
collisions in, dispersion relation calculational method for, 23:3468(T) (SC-T-68-1542)
collisions in, effects of charged-particle—neutral, on scattering, (T), 23:39485
collisions in, effects on drift instabilities, (T), 21:27211
collisions in, effects on drift waves in, 21:20970
collisions in, effects on ion acoustic wave growth in, (T), 25:52883
collisions in, effects on ion-wave instabilities, (T), 24:10540
collisions in, effects on parametric instabilities in, (T), 25:27782
collisions in, effects on thermal conductivity of, 21:771
collisions in, effects on thermodynamic potential of, (T), 23:16814
collisions in, effects on transport processes for screened Coulomb interactions, (T), 24:28297
collisions in, electron energy balance in, (T), 25:45485
collisions in, electron thermalization in, 21:2253
collisions in, electron—electron relativistic, (T), 22:29509
collisions in, enhanced screening in classical binary, 21:23174 (66-C-219)
collisions in, Fokker—Planck equations for, 21:40013
collisions in, Fokker—Planck theory for, 21:9556 (AD-642161)
collisions in, Fokker—Planck theory for, 22:1247
collisions in, geometry and velocity space effects on collective modes in, (T), 24:19888
collisions in, Green function for Coulomb, 22:15529
collisions in, hydrodynamic drift instabilities from, (T), 21:3902
collisions in, ion pair production by electrons below 1 keV, (T), 25:47548
collisions in, ionic effects on thermal conductivity of, 21:772
collisions in, kinetic theory of Compton, 22:34685
collisions in, linear Fokker—Planck equation for, 21:791
collisions in, nonlinear temperature effects in electron—ion, 22:3072
collisions in, oscillations from photon, (T), 21:5288
collisions in, oscillations from, (T), 21:3859
collisions in, particle flux associated with stochastic processes in, (T), 25:30518 (N-71-11853)
collisions in, properties of swarm, 24:8452
collisions in, quantum transport cross sections for, 25:44297
collisions in, radiation processes from, (T), 21:18719
collisions in, scattering spectrum for unequal electron and ion temperatures in presence, (T), 22:17689
collisions in, simulation of binary, (T), 24:40084
collisions in, statistical theory of inelastic, 21:27164
collisions in, statistical theory of nonlinear particle—wave, 23:32413 (NP-17885(Pt.2))
collisions in, statistical theory of particle—wave, (T), 23:32412 (NP-17885(Pt.1))
collisions in, summaries of conference papers on, 22:7306
collisions in, system for two-dimensional many body calculations, 25:56187
collisions in, theory for electron density fluctuations in, 25:33276
collisions in, theory for torsion scattering, (T), 23:42324
collisions in, theory of vibrational relaxation of diatomic molecules, (T), 23:51662
collisions in, transport coefficients from, 21:42086
collisions in, transport cross sections for inelastic, 22:39078 (SC-RR-68-171)
collisions of two-beam, energy conversion in, 23:1453
compression and heating of arc, method for, (E), 22:26363(P)
compression in toroidal magnetic fields, adiabatic, (E), 22:19933(T) (MATT-Trans-52)
compression of deuterium and deuterium—xenon, by imploding liners, (E), 23:32379
compression of rarefied, by converging magnetic mirrors, 21:42018
compression of relativistic, anisotropic, 22:3078
compression of solar, by magnetic fields causing loop prominences, (T), 22:844
compression of, getter materials for use in magnetic, 21:3808 (UCRL-70028)
computer simulation of guiding center fluids, three-dimensional, 22:3047 (IPPJ-55)
computer simulations of, bibliography on, 22:3046 (IPPJ-54)
conductivities of hydrogen, electric and thermal, (E), 24:15285
conductivities of ionized, electric and thermal, (T), 25:33235
conductivity and anomalous diffusion of weakly ionized, in dc discharges, (E), 24:8457
conductivity and heating in electric fields, anomalous, (T), 24:28224 (MATT-756)
conductivity and pair distribution of weakly ionized, electric, (T), 23:16781(T) (ORNL-tr-2068)
conductivity and pair distribution of weakly ionized, (T), 21:18723
conductivity and pair distribution of weakly-ionized, (T), 21:18728
conductivity and permittivity in linear corrugated and helical fields, 21:15148
conductivity and permittivity of air, in magnetic fields, (E), 23:20908
conductivity and pressure increase in hydrogen column, tables for thermal, 24:30325 (IPP-3/101)
conductivity and temperature in theta pinch, (E), 21:7199
conductivity and viscosity of argon, thermal, 21:37437
conductivity and viscosity of ionic, thermal, (T), 21:767(T) (SC-T-66-0747)
conductivity and viscosity of weakly ionized argon, thermal, 21:31409
conductivity approximations for weakly ionized, convergence of electric, 21:13574
conductivity at 3 to 120 kbar pressures, electric, 21:11606 (N-66-38710)
conductivity at high frequency, calculation neglecting electron—electron correlations, 21:44106
conductivity between coaxial cylinders and concentric spheres, thermal, (T), 23:12850
conductivity decay in arc columns, electric, (E), 24:3341
conductivity determination by profile methods, coil capacitance effects on, 22:9330
conductivity due to Landau waves, trans-, (T), 22:7295
conductivity during current heating in stellarators, (E/T), 25:38376 (CONF-710607-109)
conductivity during turbulent heating, anomalous, (E), 25:47501
conductivity enhancement of supersonic argon, in electric discharges, (E), 25:9451
conductivity in Al'fa machine, measurement of hf electric, 22:3027
conductivity in capacitors, peaks at cyclotron harmonics, (E/T), 24:49129
conductivity in circular tube electric arcs, thermal, 21:20964
conductivity in combustion-driven shock tubes, electric, (E), 24:17903
conductivity in electric arc, thermal, 21:25130(R) (N-67-13538)
conductivity in fast-moving, in shock tubes, electric, (T), 22:39136
conductivity in general force fields, thermal, (T), 21:15167
conductivity in high-frequency electric fields, (T), 24:8474
conductivity in high-frequency fields, electric, (E), 23:23111
conductivity in high-pressure arc, electric and thermal, (E/T), 24:3323

conductivity in large electric fields, hydrogen electric, (E), 24:28246 (COO-1726-42)
conductivity in magnetic field, from Hall effect and from solenoidal electric field interaction, (E), 24:17912
conductivity in magneto-, determined by models, 21:33412
conductivity in magnetohydrodynamic shock tubes, electric, (T), 23:36693
conductivity in NaK-seeded argon, electric, (E), 21:2212
conductivity in presence of ion acoustic waves, electric, (T), 25:22481
conductivity in Sirius stellarator, anomalous, (E), 25:49868
conductivity in spatially inhomogeneous magnetic field, electric, (T), 24:12824
conductivity in steady magnetic fields, electric, (T), 23:1388
conductivity in steady magnetic fields, electric, (T), 21:37429
conductivity in step electric fields, onset of anomalous, (E), 25:33262
conductivity in strong magnetic field, effects of fluctuations on electric, (T), 24:49117
conductivity in strong magnetic fields, anomalous, (T), 25:33272
conductivity in strong magnetic fields, electric, 22:13467
conductivity in strong magnetic fields, electric, (T), 22:19974(T) (NP-tr-1623)
conductivity in subcritical electric fields, anomalous electric, (T), 24:35437
conductivity in supercritical electric fields, anomalous, (T), 25:30625
conductivity in T-3 and ST Tokamak, mathematical model for, 25:56162 (CEA-CONF-1801)
conductivity in Tokamak TM-3 device, anomalous, 22:19934(T) (NP-tr-1617)
conductivity in Tokamak TM-3, anomalous electric, (T), 24:28275 (ORNL-TM-2988)
conductivity in Tokamak TM-3, anomalous resistance in, (E), 24:3332(T) (MATT-Trans-92)
conductivity in toroidal devices with trapped particles, electric, (T), 25:59046
conductivity in turbulent cylindrical discharges, electric, (E), 24:40059 (ORNL-TM-3038)
conductivity in turbulent discharge tubes, anomalous, (E), 25:7394
conductivity measurement by rf probe, effects of collision frequency and axial inhomogeneity on average electric, (T), 24:8447
conductivity measurement in strong magnetic fields, using test-particle methods, (T), 23:14757
conductivity measurement in, immersion-type rf probe for electric, 22:52745
conductivity measurement method for, high-time-resolution electric, (E), 25:3081
conductivity measurement of low-frequency, in capacitors, (E), 23:10649
conductivity measurement of neon, capacitor method for electric, 22:48098
conductivity measurement using rf probes, 21:42035
conductivity measurement using rf probes, (E), 23:25296
conductivity measurement using rf probes, complex, (E/T), 24:15283
conductivity measurements for diagnostics, rf, (E), 24:51627
conductivity measurements in argon—potassium, at various gas temperatures, 21:18640 (IPP-3/42)
conductivity measurements in C stellarator, using Thomson scattering, (E), 22:24242 (MATT-Q-25, pp 30-117)
conductivity measurements in cylindrical, calibration standard for electric, 21:25111 (IHT-1-17)
conductivity measurements in, magnetic method for, 21:20925
conductivity of air, argon, and nitrogen at 6,500 to 16,500°K, thermal, (E/T), 24:40056
conductivity of air, effects of multiple ionization on, (T), 25:43362 (N-71-18715)
conductivity of air, probe design for measurement of shock-ionized, 21:23206
conductivity of alkali-metal-seeded carbon dioxide, electric, (E), 24:35407
conductivity of alkali-metal-seeded rare gas, effects of bulk gas on electric, (T), 22:24319
conductivity of alkali-seeded argon, electric, (E/T), 21:13555 (AGARD-CP-8(Vol.2), pp 443-71)
conductivity of argon and helium, electric and thermal, 23:1437(R) (N-68-30295)
conductivity of argon arc, thermal, (E), 22:22151
conductivity of argon, hydrogen, and nitrogen at high temperatures, electric and thermal, (E/T), 24:17898
conductivity of argon, in arcs, 21:16926
conductivity of argon, in pulsed electric fields, (E), 24:26181
conductivity of argon, in stabilized arcs, (E/T), 25:1194
conductivity of argon—cesium, equilibrate, 21:27133
conductivity of argon—potassium, at moderate temperatures, electric, (E/T), 24:10523
conductivity of argon—potassium, effects of gas temperature on electric, (E), 23:25329
conductivity of axially symmetric, contour effects on electric, (T), 23:51654
conductivity of cesium, thermal, 22:34683
conductivity of cesium, thermal, (E), 21:39987(T) (AD-653555)
conductivity of cesium—argon, electric, (T), 24:19886 (JUL-617-TP)
conductivity of cesium—rare gas mixtures, electric, (E), 23:20900 (IAE-1619)
conductivity of cesium-seeded argon, electric, 21:27169
conductivity of charged, in magnetic field, (T), 25:19658
conductivity of collisional, in magnetic fields, relativistic corrections for, (T), 23:14805
conductivity of collisionless magnetized, in weakly turbulent magnetic field, (T), 24:8472
conductivity of collisionless magneto-, thermal, (T), 22:50149 (RISO-175)
conductivity of collisionless, asymptotic solution of anomalous, (T), 25:52820
conductivity of collisionless, in weakly turbulent magnetic fields, (T), 22:39070 (N-68-19706)
conductivity of collisionless, theory of electric, 24:47250
conductivity of combustion, electric, 25:14285 (BMBW-FBK-70-29)
conductivity of condensing metallic, electric, 22:1162
conductivity of degenerate, electric and thermal, (T), 22:36941
conductivity of dense cesium, electric, (E), 23:20901 (IAE-1626)
conductivity of dense toroidal-confined, electric, 21:46321
conductivity of dense, research on electric, 22:1151(R) (AD-646889)
conductivity of externally ionized, electric, (T), 24:1435
conductivity of Fermi, frequency dependence on, (T), 22:50164
conductivity of flowing, determination from interaction with magnetic field, 21:37421
conductivity of fully ionized, effects of density fluctuations on electric, (T), 23:46475
conductivity of fully ionized, electric and thermal, (T), 22:31832
conductivity of fully ionized, electric, (T), 21:42036
conductivity of fully ionized, electric, (T), 22:9374
conductivity of fully ionized, in strong magnetic fields, electric, (T), 24:5169
conductivity of fully ionized, logarithm term for electric, (T), 25:19683
conductivity of fully ionized, nonlinear hf, (T), 23:1430 (MATT-638)
conductivity of fully ionized, with ion—ion correlations, (T), 25:43363 (NP-18805)
conductivity of helium, in electrodeless accelerator, 21:23164 (NP-16694)
conductivity of high-current discharges in hydrogen, 24:15295 (CONF-680520-, pp 316-25)
conductivity of high-pressure pulsed-discharge argon and xenon, (E/T), 25:45461
conductivity of high-temperature argon, thermal, (E), 22:26401
conductivity of highly nonequilibrium, electric, (T), 24:26192 (N-70-13474)
conductivity of highly turbulent argon, hydrogen, and xenon, electric, (E), 22:46179
conductivity of homogeneous magnetized, electric, (T), 23:16824
conductivity of hot hydrogen, in electric fields larger than runaway field, (E), 25:19672
conductivity of hydrogen at 2000 and 7000°K, thermal, 23:14753
conductivity of hydrogen, effects of gas heating on electric, (E), 24:8448
conductivity of hydrogen, in magnetic field, thermal, (E), 22:52758
conductivity of impact-ionized nitrogen in magnetic field, transverse electric, (E), 24:28259
conductivity of impure, with electrothermal instabilities, (T), 24:30347
conductivity of inhomogeneous, electric, (T), 24:35425
conductivity of Lorentz, ac electric, (T), 23:12806
conductivity of Lorentzian, effect of frequency-modulated electric field on nonlinear electric, (T), 23:51664
conductivity of low temperature high density uranium fluoride, electric, 21:33384
conductivity of low-frequency, electric, (T), 22:34667
conductivity of low-temperature, double probe method for electric, 21:20924
conductivity of magnetically confined, with low electric fields, (E/T), 25:9443
conductivity of magnetized nonrelativistic equilibrium, statistical mechanical perturbation theory of bilinear, 25:3090
conductivity of magnetized potassium, anomalous, (E), 25:56159
conductivity of magnetized, convergent kinetic equation for electric, (T), 25:40638
conductivity of magnetized, theory for, 24:47251
conductivity of magneto-, Boltzmann equation for electric, 21:9611
conductivity of magneto-, effect of ion motion on collisional, (T), 24:17930
conductivity of magneto-, effective parameters for non-Maxwellian, (T), 22:34623 (AD-660810)
conductivity of magneto-, effective parameters for Maxwellian, (T), 22:34622 (AD-660809)
conductivity of multicomponent mixtures of, maximum electric, (T), 21:31413
conductivity of multicomponent, transport properties for, (T), 23:51661
conductivity of neon, collisional effects on electric, (T), 22:22181
conductivity of nitrogen in electric arcs, thermal, 22:9332
conductivity of non-Maxwellian magneto-, electric, (T), 21:2219 (AD-630611)
conductivity of nonequilibrium cesium-seeded helium, optimum seeding for, (T), 22:24310
conductivity of nonequilibrium two-temperature, generalized Saha equation for electric, (T), 22:19981
conductivity of nonequilibrium, hf, (T), 25:9463
conductivity of nonrelativistic electron, nonlinear, (T), 23:25346
conductivity of ohmic discharge, in Sirius stellarator, (E), 23:46467
conductivity of optically transparent xenon, electric, (T), 25:47551
conductivity of oxygen arc, electric and thermal, 23:6992
conductivity of partially ionized argon—potassium, electric, (T), 21:3818
conductivity of partially ionized homogeneous, calculation of, 21:37470
conductivity of partially ionized noble gas, electric, (T), 23:14768
conductivity of partially ionized, calculation of electric, (T), 25:3093
conductivity of partially ionized, electric, (T), 22:3001
conductivity of partially ionized, in electric fields, (T), 21:29208
conductivity of partially ionized, in long-wavelength limit, 21:33387
conductivity of partially ionized, Ohm's law for, 21:42031
conductivity of partially ionized, steady electric field induced anisotropy in ac, 22:52809
conductivity of petroleum and coke, electric, (T), 22:17436
conductivity of positive column, thermal, 22:31838
conductivity of positive-column, low-frequency, (T), 21:37428
conductivity of potassium and sodium, temperature and pressure effects on thermal, (E/T), 22:9328
conductivity of potassium- and oxygen-seeded, measurement of, 22:17636
conductivity of potassium-seeded argon and helium, electric, 22:5357
conductivity of potassium-seeded argon and helium, in crossed fields, 22:3017 (IPP-3/59)
conductivity of potassium-seeded argon, electric, 22:5361
conductivity of potassium-seeded argon, nonequilibrium electric, (E), 23:48894
conductivity of potassium-seeded helium, electric, (E), 25:7371
conductivity of potassium-seeded nitrogen, electric, 22:52769 (AD-672249)
conductivity of potassium-seeded nitrogen, electric, (T), 22:39126
conductivity of pulsed, effects on skin-current penetration and heating in, (T), 25:33268
conductivity of rare gas, in crossed electric and magnetic fields, electric, (E), 22:39052
conductivity of relativistic, electric, 22:34628 (AD-662904)
conductivity of relativistic, frequency-dependent, (T), 21:13557 (AGARD-CP-8(Vol.2), pp 573-86)
conductivity of rf-confined, anomalous resistivity, (E/T), 25:38411 (CONF-710607-19)
conductivity of seeded-flame, (E), 22:41565
conductivity of shock-heated argon, thermal, (E/T), 23:30536
conductivity of shock-heated argon—potassium and nitrogen—potassium, electric, 22:5359
conductivity of shock-heated, probe design for measuring electric, 21:18694
conductivity of shock-ionized air, electric, 23:3502
conductivity of theta pinch-hydrogen, electric, (E), 22:29470
conductivity of toroidal loop, thermal, (T), 25:36141
conductivity of toroidal, Thomson scattering measurement of, 22:22140
conductivity of trapped, effect of electron collisions on electric, (T), 25:9480
conductivity of turbulent magnetized, microwave, 23:8616
conductivity of turbulent, anomalous electric, (T), 25:36145
conductivity of turbulent, anomalous hf, (T), 23:12832
conductivity of turbulent, anomalous high-frequency, (E/T), 23:18612 (CONF-680113-(Vol.1), pp 245-87)
conductivity of turbulent, dc electric, 22:15526
conductivity of turbulent, determination of anomalous using test waves, (T), 24:47236 (NYO-3782-4, App.11)
conductivity of turbulent, determination using test waves, (T), 24:47237 (NYO-3782-4, App.12)
conductivity of turbulent, electric, (T), 22:31811
conductivity of two-dimensional flows, electric, (T), 24:17933
conductivity of warm, near lower hybrid resonance, (T), 25:43375
conductivity of weakly ionized imperfect, electric, (T), 23:51660
conductivity of weakly ionized turbulent, electric, (T), 22:44092(T) (NSJ-tr-122)
conductivity of weakly ionized, effect of electron collision frequency on electric, (T), 25:14308
conductivity of weakly ionized, effect of ion—acoustic waves on electric, (T), 23:39476
conductivity of weakly ionized, effects of ion—acoustic oscillation on electric, (T), 23:30560
conductivity of weakly ionized, effects of ion—acoustic oscillations on electric, (T), 23:39477
conductivity of weakly ionized, electric, (T), 23:14772(T) (ORNL-tr-2067)
conductivity of weakly ionized, in quiescent and turbulent states, (T), 23:46476
conductivity of weakly turbulent, electric, (T), 25:19685
conductivity of well-magnetized, laminar, (T), 22:50193
conductivity of xenon discharge, electric, (E), 24:19882
conductivity of xenon in shock tube at 5500 to 9000°K, electric, (E), 24:28234 (AD-691254)
conductivity of xenon pulse, electric, (E), 23:18638
conductivity of, asymptotic solutions for anomalous, 25:14309
conductivity of, calculation of electric, 21:9607
conductivity of, calculation of electric, using convergent kinetic equation, 21:18681
conductivity of, calculation of total thermal, 22:36911 (N-68-16681)
conductivity of, collision effects on thermal, 21:771
conductivity of, computer simulation of anomalous, 25:38430 (CONF-710607-65)
conductivity of, computer simulation of anomalous resistance in, 24:51678
conductivity of, correction to Kubo formula for electric, (T), 23:23135
conductivity of, effect of electrostatic turbulence on anomalous, (T), 25:33267

conductivity of, effect of space charge and diffusion on electric, (T), 24:1436
conductivity of, effects of electron collisions on thermal, (T), 22:36931
conductivity of, effects of impurities on electric, (T), 22:1163
conductivity of, effects of turbulent spectrum on anomalous, (T), 24:51673
conductivity of, electric, (T), 24:15323
conductivity of, electrode current saturation in MHD ducts, (E), 21:2271
conductivity of, hysteresis effects on electric, 21:46328
conductivity of, in crossed electric and magnetic fields, electric, (T), 23:8594
conductivity of, kinetic equation for hf, (T), 22:24334
conductivity of, nonlinear high-frequency, (T), 23:18654
conductivity of, one-dimensional solution considering scattering effects, (T), 23:10627 (D-1-82-774)
conductivity of, quantum theory of finite dc, 24:15310
conductivity of, research on anomalous, (E/T), 25:38431 (CONF-710607-67)
conductivity of, resonant charge exchange effects on thermal, 21:772
conductivity of, similarity arguments for high-field electric, (T), 24:51674
conductivity profiles in, measurement of impedance as a function of frequency for, (E/T), 21:25123
conductivity ratios for rare gas, electron—neutral momentum transfer cross sections from, 23:5427
conductivity tensor for collision-dominated weakly ionized, (T), 24:51677
conductivity tensor for collisional, in magnetic field, (T), 23:14807
conductivity tensor for collisionless, in magnetic field, (T), 23:36680 (AD-687070)
conductivity tensor for, in magnetic fields, 24:45248
conductivity tensor for, in steady magnetic fields, (T), 24:49148 (SINP-TH-68-3)
conductivity tensor of homogeneous, in steady magnetic fields, (T), 24:47240 (SINP-TH-67-8)
conductivity tensor of inhomogeneous Lorentz, nonlinear, 22:34670
conductivity, density and collision frequency from rf, 22:39047
conference on, 22:7255
conference on, 25:30451
conference on contemporary physics, Trieste, 7/68, 24:1113 (STI/PUB-214(Vol.1))
conference on feedback and control of, Princeton, N. J., 6/70, 25:27752
conference on fusion technology, 6th, Aachen, Germany, 9/70, 25:30449 (EUR-4593)
conference on high magnetic fields, Nottingham, England, 9/69, 24:24080
conference on interactions between oscillating fields and, Saclay, 1/68, 2nd international, 23:34399 (CONF-680113-(Vol.4))
conference on interactions between oscillating fields and, Saclay, 1/68, 2nd international, 23:44376 (CONF-680113-(Vol.5))
conference on interactions between oscillating fields and, Saclay, 1/68, 2nd international, 23:34363 (CONF-680113-(Vol.3))
conference on laser interaction and related plasma phenomena, East Windsor, Connecticut, 6/69, 25:36147
conference on one-particle distribution functions in, Marburg, Germany, 9/68, 23:25306 (BMwF-FBK-69-3)
conference on phenomena in ionized gases, Bucharest, 9/69, ninth international, 24:8426
conference on plasma physics and controlled nuclear fusion, third international, Novosibirsk, 8/68 (translations of Russian papers), 23:36640
conference on plasma physics and controlled nuclear fusion, third international, Novosibirsk, 8/68, 23:32306 (STI/PUB-192(Vol.1))
conference on plasma physics and controlled thermonuclear reactions, third international, Novosibirsk, 8/68, 23:32307 (STI/PUB-192(Vol.2))
conference on plasma waves in space and in the laboratory, 24:37346
conference on plasma waves in space and laboratory, Roeros, Norway, 4/68, 25:17002
conference on quiescent, Paris, 9/69, 24:26139
conference on quiescent, Paris, 9/69, 24:26140
conference on quiescent, Paris, 9/69, 24:26141
conference on relativistic, Coral Gables, 2/68, 23:44423
conference on solar-system, Adelaide, Australia, 8/68, 23:34203
conference on stability of astrophysical, Pacific Grove, Calif., 10/68, 23:51156
conference on turbulence of fluids and, New York City, 4/69, 24:1414
confined clouds of, dynamics and structure of inertially, (T), 24:10335
confinement and accumulation of electrons in magnetic mirror traps, (E), 24:49113
confinement and buildup in beam-generated mirror machine, 21:31392
confinement and buildup in quadripolar field coils, 25:1160 (CEA-CONF-1604)
confinement and compression in cusp geometries, 21:31388 (JUL-457-PP)
confinement and compression of, assemblies for, 21:722 (AD-635779)
confinement and decay in PR-6 device, 25:38365 (CONF-710607-94)
confinement and energy balance in Tokamak ST, (E), 25:38338 (CONF-710607-32)
confinement and equilibrium in M and S configuration theta pinch, (E/T), 23:34375(T) (NP-tr-1794)
confinement and equilibrium in toroidal theta pinch, 21:37409 (IPP-1/63)
confinement and heating by nonlinear laser-beam interactions, (T), 23:30517 (IPP-3/87)
confinement and heating in compressed toroidal magnetic fields, 24:45281
confinement and heating in Doublet and Tokamak devices, 25:17131
confinement and heating in Helios device, research on, 23:5370 (ORO-2454-11)
confinement and heating in internal ring device F IV, 25:38327 (CONF-710607-5)
confinement and heating in multipole structures, (E), 25:38324 (CONF-710607-2)
confinement and heating in stellarators, (E), 23:32329
confinement and heating in Tokamak T-3, (E), 25:30461(T) (MATT-Trans-79)
confinement and heating in Tokamak T-4, (E), 25:38337 (CONF-710607-31)
confinement and heating in Tokamak-3, effects of discharge current pulse on, (E), 23:27604
confinement and heating in Tuman device, (E), 23:51717
confinement and heating in Uragan stellarator, (E), 25:22476
confinement and heating of, research review of, 24:26146
confinement and heating of, research reviews on, 21:9527
confinement and heating, electric behavior of pulsed chemical-explosive MHD generator for energy supply for, (E/T), 23:32207 (CEA-R-3714)
confinement and heating, use of energy density of megagauss fields in, 24:3480
confinement and instabilities in magnetic traps, (T), 22:26359
confinement and losses in LM-1 and spherator devices, (E), 23:27603 (MATT-Q-26, pp 1-141)
confinement and penetration by rf electromagnetic fields, (T), 25:17130
confinement and potential fluctuations in small aspect ratio levitron, (E/T), 23:32337
confinement and production in W IIa stellarator, electron cyclotron resonance, 25:7395 (IPP-2/85)
confinement and production of laser-produced, optical interferometer measurements of, (E), 24:35444
confinement and production of, device for, 24:17948(P)
confinement and production, research on, (E), 23:36645 (JUL-567-PP)
confinement and stability in Astron device, 25:38331 (CONF-710607-11)
confinement and stability in minimum B toroidal fields, 21:20919
confinement and stability in strong vhf fields, (E), 23:44385 (CONF-680113-(Vol.5), pp 229-51)
confinement and stability in toroidal magnetic fields, 22:5311
confinement and stability in toroidal screw pinch, 21:27123
confinement and stability of theta-pinch, effects of magnetic mirrors on, 22:1138 (LA-3770, Paper D7)
confinement and stabilization in strong uhf fields, (E), 23:34452 (CONF-680113-(Vol.4), pp 1173-1201)
confinement and stabilization using MHz electromagnetic fields, (E), 23:34451 (CONF-680113-(Vol.4), pp 1147-72)
confinement and thermoisolation in Sirius stellarator, 24:15265 (KHFTI-69-47)
confinement and trapping of hot electron clouds in magnetic mirrors, (E), 25:40584
confinement and turbulent heating in toroidal magnetic traps, (E), 25:56127
confinement between mixed-field accelerator and periodic magnetic mirror, 24:12784
confinement between two infinite plane walls, losses in, (T), 24:10498 (SC-RR-69-836)
confinement by electromagnetic fields, density distribution in, (T), 24:1370
confinement by electrostatic devices, computer simulation of, 25:47497 (AD-716860)
confinement by external electromagnetic fields, (T), 25:19655
confinement by high-frequency electromagnetic fields in closed magnetic configurations, (T), 25:52779
confinement by high-frequency fields, 23:6973 (NP-17707)
confinement by magnetic fields, research developments in, 25:25083
confinement by magnetic fields, upper bounds for, (T), 23:36648
confinement by nonuniform electromagnetic fields, (E/T), 21:23534(R) (ANL-7246)
confinement by rf fields, (T), 24:42642 (D-1-82-977)
confinement by rotating magnetic fields, (E), 21:7170 (CLM-R-65)
confinement enhancement in theta pinch using nonadiabatic rough magnetic walls, computer simulation of, 22:44068 (LA-DC-9328)
confinement for high-power duplexer systems, techniques for, 21:720(R) (AD-632344)
confinement from atomic beam interactions with ECR-heated targets, (T), 25:58969
confinement in 2X and Alice mirror machines, research on, 24:21822 (UCRL-50002-69, pp 29-77)
confinement in 2X machine, analysis of, 22:13429 (UCRL-70656)
confinement in 2X mirror machine, (E/T), 25:38368 (CONF-710607-99)
confinement in ac polyhedric systems, 21:7179
confinement in adiabatic traps with increasing strength in radial and longitudinal directions, 21:39978(T) (AD-651089)
confinement in Alice device, 21:11593 (UCRL-50002-66-1, pp 5-59)
confinement in Astron with proton E-layer, (E), 24:23945 (UCRL-71769(Rev.1))
confinement in B-3 stellarator, rotational effects on, 21:9528
confinement in C stellarator, anomalous resistivity effects on, (E), 23:32334
confinement in C Stellarator, ion cyclotron resonance heating effects on deuterium, 21:729
confinement in C Stellarator, parameters of, 21:13537
confinement in C stellarator, xenon, (E), 22:24242 (MATT-Q-25, pp 30-117)
confinement in C stellarators, loss and expansion rates for, 21:33363 (MATT-Q-24, pp 1-195)
confinement in caulked stuffed cusp magnetic field, (E/T), 23:44390
confinement in Chalice cusped geometries, (E/T), 23:20889(R) (SIT-2582-27)
confinement in circular magnetic well DECA II B, (E), 25:38360 (CONF-710607-88)
confinement in circular quadrupole magnetic well DECA II B, (E), 25:3053 (CEA-CONF-1597)
confinement in CLIMAX toroidal quadrupole device, convective motion in, (E/T), 25:38329 (CONF-710607-7)
confinement in closed magnetic configurations, properties of, (T), 21:39979(T) (CLM-Trans-12)
confinement in closed magnetic line systems, (T), 25:38382 (CONF-710607-119)
confinement in closed magnetic systems, theory for, 24:37429
confinement in closed magnetic trap Sirius, with helical fields, (E), 22:26356(T) (NP-tr-1620)
confinement in closed magnetic trap with spiral field, (E), 22:7261
confinement in closed quadrupole magnetic traps, (E), 24:51612
confinement in closed systems, diagnostic methods for analyzing electron, 24:12796
confinement in collisionless equilibrium configurations, loss rate of high-beta, 22:1134 (LA-3770, Paper B5)
confinement in combined mirror and octupole magnetic fields, (E), 25:9399
confinement in conducting cylinder with magnetic fields, 21:11589 (IPP-2/51)
confinement in cusp fields superimposed on toroidal discharge, Hall effects on, (T), 23:12758
confinement in cusp fields, device for, 21:9539(P)
confinement in cusp geometries, (T), 23:14744
confinement in cusp magnetic fields, (E/T), 23:51594
confinement in cusp magnetic fields, dynamic control of losses in, (E/T), 25:27676
confinement in cusp-geometry Chalice device, deuterium, 23:8588
confinement in cusped geometries, electron, (E/T), 23:42224 (NP-17974)
confinement in cusped magnetic field combined with electrostatic field, 23:1371
confinement in cusped magnetic geometries, by rf electric fields near ion cyclotron frequency, (E), 25:40590
confinement in cylindrical tubes, optics of, 21:42026
confinement in dc octupole device, hydrogen, (E), 24:10504
confinement in dc octupoles, (E), 25:38325 (CONF-710607-3)
confinement in DCX-1.5, properties of, 22:52723 (CONF-671127, pp 46-76)
confinement in DECA II device, limitations of, 22:50126(R) (EUR-CEA-FC-352)
confinement in DECA II experiment, 22:52725 (CONF-671127, pp 144-69)
confinement in DECA IIB, equilibrium in, (E), 25:58958 (CEA-CONF-1807)
confinement in dense focus and Tokamak systems, radiation losses in, (T), 25:38357 (CONF-710607-77)
confinement in diverters, mass—energy measurements of, (E), 24:10496(T) (AEC-tr-7108)
confinement in divertor aperture during asynchronous two-beam injection, (E), 23:42230
confinement in double-toroidal hydromagnetic equilibrium configurations with perfectly conducting sphere, (T), 23:39445
confinement in electromagnetic traps, review of, 23:5368(T) (AEC-tr-7002)
confinement in electromagnetic traps, survey of, (E/T), 24:3295(T) (AEC-tr-7002(Rev.))
confinement in field of pulsed magnetic barrier, 24:37426 (KHFTI-70-2)
confinement in fundamental-mode resonant cavities, frequency-shifting method of exciting, (E), 23:34370 (CONF-680113-(Vol.3), pp 987-1024)
confinement in fusion devices, echo studies of, 25:9420
confinement in Garching octupole W V device, potassium, 24:5152 (IPP-2/78)
confinement in glow discharges, effusion measurements for, 21:31393
confinement in hard-core theta pinch, with shear, (E), 23:32318
confinement in hard-core theta-pinch with reverse trapped magnetic field, 22:1141 (LA-3770, Paper G5)
confinement in helical magnetic fields, symmetry effects on, 23:5376
confinement in Heliotron device, (E), 23:25287
confinement in Heliotron field, properties of, 21:35136
confinement in Heliotron magnetic fields with inner conductors, (E), 22:22134
confinement in Heliotron P field, (T), 24:26143
confinement in Heliotron P field, losses in, (RE), 23:18589
confinement in Heliotron, with buried ring conductors, 24:35377
confinement in hf fields, properties of, 21:3811
confinement in hf multipole electromagnetic fields, properties of, 21:29199
confinement in hf theta-pinch devices, 21:5236 (IPP-1/51)
confinement in high-field toroidal quadrupole, (T), 25:5070
confinement in high-shear stellarators, single-particle, (E), 23:32332
confinement in hybrid multipole-stellarator fields, (E), 24:8429 (UCRL-71721)

confinement in IMP facility, trapping calculations for, (T), 24:45265 (ORNL-4545, pp 38-57)
confinement in intense magnetic fields, research review of, 22:22132
confinement in INTEREM experiment, research on, 25:45450 (ORNL-4688, pp 24-43)
confinement in isolated column, free expansion in, 22:48081
confinement in J.I.P.P. stellarator, magnetic configuration effects on, 25:38374 (CONF-710607-107)
confinement in J-mirror, using longitudinal invariant of motion, 23:8586
confinement in JFT-1 hexapole with high toroidal field, 25:38328 (CONF-710607-6)
confinement in l = 2 stellarator, (E/T), 24:19867(T) (MATT-Trans-100)
confinement in l = 3 stellarators, source and electron cyclotron resonance heating effects on, (E), 25:30457 (IPPJ-102)
confinement in L-1 and Tor-1 and -2 stellarators, (E/T), 24:5150(T) (AEC-tr-7072)
confinement in L-1 stellarator, drift mechanisms in, 24:47188(T) (AEC-tr-7157)
confinement in large magnetic fields, research on, 24:23946
confinement in large theta pinch devices, 22:1132 (LA-3770, Paper A5)
confinement in levitated spherator, (E), 25:49864 (MATT-Q-28, pp 1-34)
confinement in levitated spherator, helium, 25:17127
confinement in levitated toroidal quadrupole fields, 21:13531 (ORNL-4063, pp 36-70)
confinement in levitated toroidal quadrupoles, effects of supports on, (E), 24:35476
confinement in Levitron device, 21:46308 (UCRL-50002-67, pp 105-26)
confinement in Levitron device, (E), 23:32336
confinement in levitron device, research on, 25:17124 (UCRL-50002-70, pp 4.1-17)
confinement in linear multipole and spherator, 22:44069 (MATT-620)
confinement in linear multipole and spherator experiments, (E), 23:32338
confinement in linear multipoles, loss structure in, (E), 24:42651
confinement in linear octupole, computer simulation of, 24:35369 (AD-703284)
confinement in linear quadrupole LM-1, magnetic field intensity effects on, 24:15266 (MATT-734)
confinement in linear quadrupole, nonclassical particle losses in, (E), 22:41543
confinement in linear theta pinch, with trapped reverse magnetic field, (E), 23:32319
confinement in linear theta pinches with helical magnetic fields, (E), 25:49930
confinement in linear theta-pinch, end losses in, 21:9531
confinement in linear Z-pinch tube, (E), 21:9526
confinement in LM-1 linear quadrupole configuration, 22:46111 (MATT-592)
confinement in LM-1 quadrupole configuration, (E), 23:30523
confinement in long cusp pinch devices, 22:1140 (LA-3770, Paper G4)
confinement in M and S configuration in theta pinches, (T), 23:44386
confinement in magnetic bottles, upper bounds of, (T), 25:19581
confinement in magnetic cusp geometry, (E), 23:44387
confinement in magnetic fields by system of line currents, (T), 24:42653
confinement in magnetic fields with compensating curvature, hot-electron, 21:42023
confinement in magnetic fields, design and fabrication of CLASP toroidal system for, 22:11412
confinement in magnetic fields, design of electrolytic tank analog for simulation of, 21:730
confinement in magnetic fields, expansion of resistive spherical, (T), 22:52733
confinement in magnetic mirror compression experiment, self-consistent theory for particle loss in, (E/T), 25:30465
confinement in magnetic mirror machines, energy losses due to Coulomb scattering, 24:28226
confinement in magnetic mirror machines, possibilities of, (T), 22:52728 (CONF-671127, pp 280-308)
confinement in magnetic mirror machines, rf electron plugs for, (E), 25:1161 (CEA-CONF-1605)
confinement in magnetic mirror systems, effects of spatial variations on collisional losses in, (T), 24:26145
confinement in magnetic mirror systems, ion velocity distribution effects on, 21:18629
confinement in magnetic mirror traps, with fluctuating electric fields, (T), 25:40591
confinement in magnetic mirrors with short-wavelength fluctuations, (T), 25:49862 (COO-2081-4)
confinement in magnetic mirrors, direct conversion of losses, 25:17209 (UCRL-50002-70, pp 2.1-44)
confinement in magnetic mirrors, effect of co-ordinate space phenomena on end losses, (T), 25:9406
confinement in magnetic mirrors, effect of electron heating on, 25:36088
confinement in magnetic mirrors, effect of end regions on, (E), 25:17128
confinement in magnetic mirrors, effect of ionization losses on electron, 22:41539(T) (NP-tr-1677)
confinement in magnetic mirrors, effect of rf fields on loss cone, 25:19649
confinement in magnetic mirrors, electrostatic potential of hot electron, 24:23949
confinement in magnetic mirrors, optimization of, (T), 22:36883 (UCRL-70681)
confinement in magnetic mirrors, repelling of end losses with electron cyclotron resonance, (E), 24:6512
confinement in magnetic mirrors, single interaction nonadiabatic losses from, 21:9530
confinement in magnetic mirrors, with fluctuating electric fields, (T), 25:49861 (COO-2081-3)
confinement in magnetic traps with opposed fields, 21:18628
confinement in magnetic wells, decay modes in, (E), 23:32327
confinement in magnetic-mirror traps, duration equations for, (T), 25:27669 (IAE-1972)
confinement in magnetostatic mirrors with helping microwaves, cone losses in, (E), 25:30463
confinement in medium- and high-shear stellarators, (E), 25:40583
confinement in MHD-stabilized toruses, lf loss mechanisms in, 22:44071 (MATT-624)
confinement in MHD-stabilized toruses, lf loss mechanisms in, (T), 23:32311
confinement in minimum-B fields, anomalous losses from, 21:39977 (UCRL-70519)
confinement in minimum-B fields, baseball seam conductor for, 21:5241 (UCRL-70023)
confinement in minimum-B fields, conductor arrangement for, (T), 21:25107
confinement in minimum-B geometries, particle motion in, (E), 23:8569(T) (AEC-tr-7004)
confinement in mirror fields, charge exchange losses from injected hydrogen, 22:5310
confinement in mirror fields, cyclotron radiations from, 25:17126
confinement in mirror machines, density calculations for end regions, (T), 25:40582 (UCRL-20615)
confinement in mirror machines, research on, (T), 25:47581(R) (COO-2081-5)
confinement in mirror machines, wave mechanical model for nonadiabatic losses in, (T), 25:22470
confinement in mirror systems, fuel cycles, loss reduction, and energy recovery for, 24:17978 (UCRL-71753)
confinement in mirror systems, ion cyclotron instabilities in, (T), 24:15270
confinement in mirror theta pinches, end losses, (T), 25:30464
confinement in mirrors with ion cyclotron instabilities, density effects on, (T), 25:52776
confinement in modified Torsatron systems, system development for, 24:35479
confinement in MTSE II device, (E/T), 25:40588
confinement in multiple magnetic mirrors in collisional regimes, (T), 24:35372(R) (UCB-34-P-128-14)
confinement in multiple-mirror systems, Monte Carlo calculations for, 21:15088
confinement in multipole devices, research on, (E), 23:20879(R) (GA-9003)
confinement in nonuniform rf fields, potential well theory of, 23:34369 (CONF-680113-(Vol.3), pp 949-86)
confinement in ohmic-heated model C stellarator, (E/T), 23:25289
confinement in open-ended magnetic systems, electrostatic plugging system for, 24:12781
confinement in open-ended magnetic traps, collisional losses and ambipolar potential in, 24:47190 (EUR-CEA-FC-552)
confinement in open-ended systems with magnetically rough walls, 22:11404(R) (LA-3831)
confinement in open-ended systems, reduction of end losses in, (T), 22:22130
confinement in open-ended systems, research review on, (E), 23:27605
confinement in pinch devices, losses from inverse skin effect, (T), 25:58967
confinement in Pleiade device, 25:38364 (CONF-710607-93)
confinement in Pleiade device, lifetime measurements in, (E), 25:1159 (CEA-CONF-1603)
confinement in Pleiade machine, 24:12782
confinement in PR-6 adiabatic trap with minimum-B, (E), 23:32326
confinement in Princeton spherator using supported superconducting rings, 23:51590
confinement in Proto-Cleo stellarators, 25:38373 (CONF-710607-106)
confinement in Q device with rotational symmetric temperature distribution at end plates, (E), 24:26148
confinement in Q devices with curved fields, 21:20988 (MATT-Q-23, pp 181-320)
confinement in Q devices with symmetrically heated end plates, (E), 23:14750
confinement in Q devices, convective and oscillatory losses in, 24:6508 (MATT-717)
confinement in Q devices, cross-field losses in, (E), 23:20874(R) (SIT-2813-47)
confinement in Q devices, electrostatic, (T), 25:56013
confinement in Q devices, end losses in, (E), 23:27603 (MATT-Q-26, pp 1-141)
confinement in Q devices, ion temperature and increased end losses in, (T), 24:17882
confinement in Q devices, ion temperature effects on, (E), 22:24243 (MATT-Q-25, pp 118-65)
confinement in Q devices, loss processes from collisions and diffusion in, (E), 24:35410
confinement in Q devices, rate of end losses in cesium, (E), 23:16774
confinement in Q devices, temperature gradient effects on, (T), 24:35378
confinement in Q devices, time measurement for cesium, 21:33371
confinement in quadrupole devices, research on, 23:5369(R) (GA-8526)
confinement in quadrupole minimum-anti B fields, optimum configuration for, (T), 23:18593
confinement in radial pinches, method and apparatus for, 23:48877(P)
confinement in relativistic proton coils in toroidal configurations, (T), 22:22121 (UCID-15282)
confinement in resonant-cavity fields, (T), 21:3812
confinement in rf fields, review, (E/T), 21:44022
confinement in rf supplemented magnetic traps, quasi periodicity of particle motion in, (T), 25:1158 (CEA-CONF-1599)
confinement in rf-supplemented magnetic mirror machines, (T), 22:31789
confinement in rf-supplemented magnetic mirrors, single-particle, (T), 23:14748
confinement in rotating electromagnetic fields, (E), 23:34380(P)
confinement in rotating fields, secondary current layers in, (T), 23:34372 (CONF-680113-(Vol.4), pp 1095-1103)
confinement in rotating magnetic fields, short-wavelength instabilities in, (T), 25:9487 (LRP-42/70)
confinement in Scylla III, laser interferometric measurement of end loss, 22:11404(R) (LA-3831)
confinement in Scylla IV theta pinch, (E), 25:25080 (LA-4611)
confinement in short theta pinch, energy and particle losses in, (E), 24:17880
confinement in Sirius stellarator, (T), 24:12777(T) (CTO-672)
confinement in Skornyakov traps, field line trajectories for, 22:39037
confinement in slow theta pinch, end losses, 22:7257
confinement in specified bounded spatial domain using localized feedback controls, 24:51603 (AD-708180)
confinement in spherator, 25:38326 (CONF-710607-4)
confinement in Spherator, (E), 24:10572 (MATT-735)
confinement in spherator, effect of neutral particles and supports on, (T), 24:8427 (MATT-706)
confinement in spherator, relation of fluctuations and particle losses in, 24:17881
confinement in spherical multipole magnetic fields, 22:3002 (INR-836/XVIII/PP)
confinement in spherical multipole magnetic fields, 22:44066 (INR-914)
confinement in spherical multipole magnetic fields, 22:44065 (INR-912)
confinement in spherical multipole magnetic fields, (T), 22:3008
confinement in spherical multipole magnetic traps, (E), 25:11863
confinement in spherical multipole systems, (E), 22:44079
confinement in ST Tokamak, effect of nonaxisymmetry on, (E), 25:38339 (CONF-710607-33)
confinement in static magnetic bottles, temporary, (E/T), 21:42022
confinement in static mirror fields, charged particle injection and trapping in, (T), 25:27674
confinement in stationary and high-frequency fields, (T), 24:21760
confinement in stationary magnetic and hf fields, 24:21759
confinement in stationary magnetic and hf fields, (T), 24:49109
confinement in steady-state self-heated thermonuclear reactors, feasibility calculations for, 25:7421
confinement in stellarator fields, effects of inertia on losses, (T), 25:3060
confinement in stellarator—torsatron configurations, (E/T), 25:38377 (CONF-710607-110)
confinement in stellarators for different free path lengths, (E), 23:32331
confinement in stellarators, binary collision losses in, (T), 23:20880
confinement in stellarators, computer simulation of, (T), 23:32330
confinement in stellarators, computer simulation of, 22:46112 (MATT-618)
confinement in stellarators, diffusion coefficients for, (T), 24:32808 (NP-18257)
confinement in stellarators, diffusion effects on, (T), 25:7357(T) (LA-tr-70-23)
confinement in stellarators, effect of self-consistent electric field on, 21:20988 (MATT-Q-23, pp 181-320)
confinement in stellarators, equilibrium conditions for, 24:30308
confinement in stellarators, single-particle, (E), 22:50136
confinement in stellarators, velocity—space effects in computer simulation of, 22:50132 (MATT-648)
confinement in stellarators, velocity-space effects in computer simulation of, 23:1360 (LA-3990, pp D5.1-5)
confinement in stepped magnetic mirror fields, 24:19868(P)
confinement in straight hf quadrupole magnetic fields, 24:49112
confinement in stuffed cusp fields, nonadiabatic particle orbits in, (T), 24:35475
confinement in thermonuclear devices, screening from neutral gas penetration, (T), 23:14745
confinement in theta pinches, computer program for calculating, 25:19647 (IPP-6/90)
confinement in theta pinches, end loss inhibition by nonadiabatic rough magnetic walls, (T), 23:32320
confinement in theta-cusp experiment, (E), 23:32317
confinement in theta-pinch devices, adiabatic and losses in, (T), 22:36885
confinement in theta-pinch devices, loss measurements using laser interferometers, 22:1137 (LA-3770, Paper D3)
confinement in three-dimensional cusp fields, (T), 21:9529
confinement in three-dimesional trap formed by microwave quasipotential, (E), 22:22131
confinement in time changing toroidal octupole magnetic field, motion in, (E/T), 25:9402
confinement in Tokamak device, pressure equilibrium distribution in, (T), 22:3011
confinement in Tokamak devices, (E), 23:32342
confinement in Tokamak devices, limiting pressure in, (T), 25:38394
confinement in Tokamak devices, space—time evolution of, (T), 25:3052 (CEA-CONF-1595)
confinement in Tokamak TM-3, lifetime measurements for, (E), 24:49110

confinement in Tokamak-3 device, measurement of diffusion lifetime in, (E), 25:49867(T) (MATT-Trans-106)
confinement in Tokamak-3, effect of discharge parameters on, (E/T), 24:28227
confinement in Tokamak-3, energy lifetime, (E), 23:36647(T) (NP-tr-1798)
confinement in Tokamak-3, ion lifetime, (E/T), 25:1170
confinement in Tokamak-6, properties of, (E), 25:38358 (CONF-710607-79)
confinement in tokamak-type devices, energy balance in, (T), 25:19654
confinement in tokamaks and bumpy torus, energy flow and current diffusion in, (T), 25:58961 (CONF-711016-1)
confinement in tokamaks and stellarators, review of, (T), 25:49865 (MATT-Q-28, pp 35-48)
confinement in Tokamaks at high temperatures, (T), 25:38340 (CONF-710607-34)
confinement in Tokamaks with β much greater than 1, with arbitrary current distribution, (T), 25:38359 (CONF-710607-84)
confinement in tokamaks, anomalous electron thermal losses in, (T), 25:49869
confinement in tokamaks, effects of effective electron collision frequency on, (E), 25:58974
confinement in Tokomak devices, classical diffusion analysis for, 24:35374
confinement in Tor-1 stellarator during uhf heating, (E), 25:38369 (CONF-710607-102)
confinement in TOR-1 stellarator, effects of resonance structure on, 24:51606 (NP-18470)
confinement in Tor-1 stellarator, effects of resonance structure on, (T), 25:17123(T) (CTO-740)
confinement in TOR-1, effects of collision frequency on, 25:52772 (NP-18973)
confinement in Tor-2 stellarator, at resonance values of rotational transform angle, (T), 25:38372 (CONF-710607-105)
confinement in toroidal axisymmetric devices, high-beta, (E), 25:38381 (CONF-710607-114)
confinement in toroidal devices, design of quadrupole for, 22:11404(R) (LA-3831)
confinement in toroidal devices, equilibria in, (T), 25:19652
confinement in toroidal devices, improvements in, 24:35380(P)
confinement in toroidal devices, numerical simulation with fluid model, 25:56129
confinement in Toroidal devices, research on, 23:3447 (UCRL-50002-68, pp 164-73)
confinement in toroidal devices, research on, (T), 25:47498(R) (ORO-3458-28)
confinement in toroidal devices, scaling law for, (E/T), 23:32309
confinement in toroidal equilibrium, effect of inertia on losses from, (T), 24:1375
confinement in toroidal equilibrium, effect of inertia on losses, (T), 24:19866 (IPP-6/80)
confinement in toroidal fields with superimposed multipole fields, 21:27113 (MPI-PAE/P1-4/65)
confinement in toroidal fields, with spatial magnetic axes, 21:15090
confinement in toroidal Heliotron D, (E), 25:38375 (CONF-710607-108)
confinement in toroidal injection devices, 21:44023
confinement in toroidal magnetic fields, apparatus for stable, 24:28338(P)
confinement in toroidal magnetic fields, losses in, (T), 22:17618
confinement in toroidal magnetic fields, particle loss analysis for, (E), 21:42025
confinement in toroidal magnetic traps, transfer phenomena in, 21:37412
confinement in toroidal multipole devices, properties of, 22:7260
confinement in toroidal multipoles with shielded supports, (T), 25:19651
confinement in toroidal octupole device, (E), 22:17609 (GA-8141)
confinement in toroidal octupole device, (E), 22:52734
confinement in toroidal octupole device, research on, 22:5306(R) (COO-1233-59)
confinement in toroidal octupole magnetic field, (E), 23:32339
confinement in toroidal octupole magnetic fields, (E/T), 25:38396
confinement in toroidal octupole, cold ion, (E), 24:28231
confinement in toroidal octupole, effect of magnetically guarded hangers on, (T), 24:28230
confinement in toroidal octupole, effects of toroidal magnetic field on, 22:26358
confinement in toroidal octupoles, 22:39031 (CONF-680805-7)
confinement in toroidal octupoles, convection losses in, (E), 24:30310
confinement in toroidal octupoles, effects of obstacles on convection in, (T), 24:26144
confinement in toroidal octupoles, effects of time-varying fields on, (E/T), 25:3059
confinement in toroidal octupoles, loss mechanisms in, (E/T), 24:32812
confinement in toroidal quadrupole device, (E), 23:44389
confinement in toroidal system with powerful negative bias, (T), 24:15269
confinement in toroidal systems with negative V" and magnetic shear, (T), 22:19936(T) (NP-tr-1621)
confinement in toroidal systems, conference on, 24:15263(T) (CONF-680466)
confinement in toroidal systems, effect of trapped particles on, (T), 25:22480
confinement in toroidal systems, inertial and resistive effects in, (T), 25:33215
confinement in toroidal systems, numerical model for low-pressure, 25:14236
confinement in toroidal systems, properties of, 21:13534
confinement in toroidal systems, velocity space instabilities in, (T), 21:15207
confinement in toroidal theta pinch with superposed helical hexapole field, (E), 23:23064 (IPP-1/92)
confinement in toroidal theta pinch with superposed hexapole, 24:47198
confinement in toroidal theta pinch with superposed hexapole, 23:6968 (IPP-1/82)
confinement in toroidal theta pinch with superposed hexapole field, (E), 24:40037
confinement in toroidal theta pinch, snowplow model calculations for, (T), 23:14747
confinement in toroidal theta pinches, high-beta, (T), 23:32321
confinement in toroidal traps using hf electric fields, (E/T), 25:58976
confinement in toroidal traps with destructed magnetic fields, 25:33204(T) (MATT-Trans-40)
confinement in toroidal traps with destructed magnetic surfaces, (T), 21:25108
confinement in trapped-particle-free stellarators, adiabatic compression of, (T), 25:58964
confinement in triple-wound stellarators with circular magnetic axis, 22:3012
confinement in two-dimensional cusped and minimum-B fields, self-consistent kinetic model for, (T), 23:32343
confinement in two-inlet stellarators, 24:45273 (NP-18378)
confinement in WIIa stellarator, neoclassical diffusion, (E/T), 25:19645 (IPP-2/86)
confinement in Z-pinch, radiation losses from, 23:6970 (IPP-1/86)
confinement in Zeta, during period of reduced fluctuations, 21:27125
confinement lifetime and ion energy spectra in multipole devices, (E), 25:36085
confinement lifetime in magnetic mirror traps, electrons, (E/T), 22:17621
confinement of alkali, in stellarators, 21:11590 (IPP-2/52)
confinement of beam-injected, in B-3 and Etude stellarators, 22:26357
confinement of cesium in Q devices, particle losses from charge-exchange in, (E/T), 22:17628
confinement of cesium, in fields with variable curvature, 21:20943 (MATT-Q-23, pp 91-179)
confinement of cesium, in mirror fields, 21:20943 (MATT-Q-23, pp 91-179)
confinement of collisional, in mirror theta pinches, (E), 23:32316
confinement of collisionless, using external electromagnetic fields, (T), 25:3057
confinement of contact-ionized barium, in Wendelstein W II stellarator, (E), 23:32335
confinement of cosmic particles in galactic disk by instabilities, (T), 25:40402
confinement of dense turbulent-heated, in Ogra-2T, (E), 25:38346 (CONF-710607-54)
confinement of dense, theory of inertial, 22:1142 (LA-3770, Paper H4)
confinement of deuterium in magnetic wells, decay modes of, 22:36884 (UCRL-70869)
confinement of discharge, device and method using two cusp magnetic fields for, 23:46454(P)
confinement of electron cloud, in toroidal devices, 22:1143(R) (NYO-3863-1)
confinement of electron cloud, in toroidal magnetic fields, (E/T), 24:8435
confinement of electron clouds in toroidal magnetic fields, 21:723 (AD-636120)
confinement of electron cyclotron resonance heated, (E), 22:50134
confinement of electron cyclotron resonance-heated, in open-ended devices, 22:52727 (CONF-671127, pp 267-79)
confinement of electron, in toroidal geometries, (E/T), 24:51602 (AD-706401)
confinement of electron, in toroidal magnetic fields, 21:13538
confinement of electron-cyclotron-resonance-heated, in magnetic mirrors, (E), 23:12760
confinement of electron-cyclotron-resonance-heated, in magnetic mirrors, (E/T), 23:12739(T) (AEC-tr-7007)
confinement of electrons in cusped geometries, diffusion in, (T), 25:1167
confinement of electrons in magnetic mirrors, bunching in, (E/T), 22:24257(T) (NP-tr-1648)
confinement of energetic, in magnetic mirrors in Model C stellarator, 21:27127
confinement of finite-β, magnetic equilibrium configuration for toroidal, 24:42715
confinement of glow discharge, using electric fields, 21:9525
confinement of gun-injected, in toroidal quadrupoles, (E), 25:38330 (CONF-710607-8)
confinement of hf-heated, particle energies from, 21:15096
confinement of hf-heated, particle energies from, 21:15095
confinement of high beta, in theta pinch and cusp magnetic fields, 21:46311
confinement of high β, in toroidal fields, (E/T), 21:7178
confinement of high-beta theta-pinch, simulation of, (T), 23:1358 (LA-3990, pp C8.1-3)
confinement of high-beta, in toroidal geometries with helical multipole fields, (E), 25:43336
confinement of high-density, in pulsed magnetic mirror wells, (E), 23:32328
confinement of high-temperature, device for, 22:5312(P)
confinement of high-temperature, device for, 22:13433(P)
confinement of high-temperature, rigid drift model of, 24:15273
confinement of hot electron, in cusped magnetic fields, (E), 25:27677
confinement of hydrogen, electron multiplier tube performance for detecting losses, (E), 23:34266 (ORNL-4401, pp 160-75)
confinement of hydrogen-ion injected, into magnetic mirrors, (E), 22:15512
confinement of injected cesium, in magnetic mirrors, (E), 25:27671
confinement of injected hydrogen and microwave-produced xenon in model C stellarator, (E), 23:32333
confinement of injected plasmoids, in multipole magnetic fields, (E), 23:51632
confinement of injected, in cusp magnetic fields, (E), 22:17615
confinement of injected, in minimum-B magnetic traps, 25:11859 (EUR-CEA-FC-563)
confinement of injected, in stellarators, (E), 22:24242 (MATT-Q-25, pp 30-117)
confinement of injected, into Heliotron C field, (E), 24:12786
confinement of injected, into stellarators with double-helix-type magnetic fields, 22:15508
confinement of ion, analysis of electron analog simulation of, 23:42288 (N-69-25394)
confinement of ionized fusion gases, inertial-electrostatic method for, 22:1150
confinement of laser-irradiated lithium hydride, 24:51608
confinement of laser-produced deuterium, (E/T), 23:10606
confinement of laser-produced lithium hydride, 22:1254 (LA-3770, Paper F5)
confinement of laser-produced, (T), 23:14746
confinement of laser-produced, in mirror fields, 21:42125
confinement of laser-produced, in resonant cavities by electromagnetic fields, (E), 25:17121 (AD-713064)
confinement of low-beta toroidal, fluid description of, 23:1359 (LA-3990, pp D4.1-5)
confinement of low-beta toroidal, prospects for, (E/T), 22:19929 (TID-24228)
confinement of negatively charged, in magnetic mirrors, 24:3302
confinement of neutral-injected, in superconducting Levitron, 25:17125 (UCRL-50976)
confinement of noncylindrical discharge, by cusp geometry, (E), 23:16766 (CEA-R-3523)
confinement of ohmic-heated, in Sirius stellarator, 25:25086
confinement of ohmic-heated, in Uragan stellarator, 24:15264 (KHFTI-69-48)
confinement of potassium, shear stabilization for, 21:25168
confinement of puffs of high-β, rotational effects in, (E), 24:10527
confinement of pulse-heated, in octupolar minimum-B configuration, (E), 25:38362 (CONF-710607-90)
confinement of quiescent asymmetric, effect of magnetic shear on, (E), 23:51595
confinement of rotating, in magnetic traps, 22:48078
confinement of simulated fusion, particle losses in, 21:29194
confinement of theta pinch, pressure gage measurement of losses from, 21:31385 (CLM-R-70)
confinement of toroidal low-beta, fluid description of, (T), 22:24247 (MATT-Q-25, pp 201-22)
confinement of toroidal theta-pinch, in periodic caulked cusp fields, (E), 25:38380 (CONF-710607-113)
confinement of toroidal, in rotating magnetic fields, 21:721(R) (AD-632379)
confinement of turbulent-heated, in toroidal devices, 22:46099 (IAE-1485)
confinement of warm streaming, by magnetic fields, (T), 22:31721
confinement of warm, in uniformly sheared magnetic fields, (T), 21:13535
confinement of weakly ionized, in toroidal fields, 21:20913 (IPP-2/56)
confinement of, analog simulation of, 24:9705 (CEA-CONF-1364)
confinement of, annular magnetic mirror device for, 21:44028(P)
confinement of, asymmetric minimum B configuration with outer resonant windings for, 23:8577
confinement of, axisymmetric minimum average B configuration for, 21:7181
confinement of, baseball seam magnet design for, 24:15268(P)
confinement of, closed magnetic traps with zero rotation transform angle, 21:37414
confinement of, computer simulation of rf, (T), 25:1199 (CEA-CONF-1617)
confinement of, criteria for electrostatic-inertial, 24:51604 (AD-708522)
confinement of, design of 3-kG aluminum electromagnet for, 22:43186
confinement of, design of cusp field device for, 21:31387 (CONF-661016, pp 72-6)
confinement of, design of rf pulse generator for producing 1.8 kG rotating magnetic field for, 22:28225
confinement of, design of spherical multipole magnets for, 24:6556
confinement of, design of superconducting baseball coil for, 21:23155 (UCRL-70380)
confinement of, design of toroidal device for, 24:45283(P)
confinement of, design of toroidal system for, 23:8578
confinement of, development of magnetic mirrors for, 21:11593 (UCRL-50002-66-1, pp 5-59)
confinement of, development of superconducting magnets for, 23:42786 (BNL-50155(Pt.3), pp 709-966)
confinement of, effect of shear and connection length of drift waves on, 22:44072 (MATT-625)
confinement of, energy balance equation and enhanced diffusion in, (T), 24:19865 (IPP-6/78)
confinement of, helical Heliotron field for, 25:33212
confinement of, kinetic theory of, 23:10604

confinement of, magnetic field measurement of tetrahedral spire for, (E), 22:17624
confinement of, magnetic field rotational transforms for, 21:18626
confinement of, minimum B Heliotron field for, 22:22133
confinement of, momentary magnetic field generator for, 21:23157(P)
confinement of, negative V" system with deep magnetic well for, (T), 23:30524
confinement of, new device for, 21:18635(P)
confinement of, optimal control of class of linear hyperbolic systems for, (T), 24:6513
confinement of, optimization problems in, 25:43337
confinement of, performance of pinch devices for, 24:15348(T) (CTO-686)
confinement of, polynomial representation of mirror-cusp fields for, (T), 23:12753
confinement of, problem survey of, 24:1373
confinement of, properties of, 21:33372
confinement of, properties of deep negative electrostatic potential well in spherical geometry for, 23:1369
confinement of, quasi force-free magnetic field system for, 21:31386 (CONF-661016, pp 35-52)
confinement of, relation of convection to anomalous losses, (E), 24:10503
confinement of, research on inertial electrostatic, 25:33318(R) (NYO-4109-2)
confinement of, review of, 24:8430
confinement of, review of developments in, 24:37500
confinement of, review of United Kingdom research on, 21:5242
confinement of, review of, (E/T), 24:1374
confinement of, use of coils with tennis ball seam configuration for, 22:11413
confinement on magnetic mirror traps, collisional, (E), 25:38366 (CONF-710607-96)
confinement on, field minimum line with arbitrary curvature and torsion, (T), 23:42228
confinement temperature for magnetized, minimum, 21:44019 (N-67-21766)
confinement time in Q devices, cesium, 21:33363 (MATT-Q-24, pp 1-195)
confinement time in SM magnetic trap, (E), 23:18591
confinement time in stellarators, model for, (T), 23:25288
confinement time in W IIa stellarator, minimum, (E/T), 25:38370 (CONF-710607-103)
confinement time of cesium and potassium, in Q devices, (E), 22:44080
confinement time of cesium, in Q device, 21:33367 (CONF-670104-Pt.1, pp 243-58)
confinement time of dense deuterium, in Chalice, 21:46305 (SIT-2582-24)
confinement times in stellarators, semi-empirical model for, 23:8585
confinement using electrostatic methods, properties of, (T), 24:6516
confinement using relativistic electron beams, reveiw of, 23:5373
confinement using rf fields, aspects of, (E/T), 23:34368 (CONF-680113-(Vol.3), pp 919-48)
confinements in 2X device, properties of, 21:46306 (UCRL-50002-67, pp 7-58)
confinment using laser beams, parameters of, 24:42652
contraction of rotating clouds of gravitational, (T), 25:35819
convection cells produced by low-frequency flute instabilities, (T), 25:27734
convection effects on current patterns in nonequilibrium, (T), 22:13317
convection produced by ion-driven drift instabilities, (T), 25:27735
cooling in Q-device, ion collision effects on, 21:29196
cooling of flare-produced, in solar corona, (T), 25:13889
cooling of low-density, radiative, (T), 25:40587
corotation of magnetospheric, with a celestral body, (T), 22:5220
cosmic-ray interaction with instellar, (T), 25:35900
cosmic-ray scattering by turbulent pulsations of interstellar, (T), 21:5102
critical size of deuterium-tritium and pure deuterium for fusion, (T), 25:1238
current density and equilibrium in magnetically confined, 22:41601
current density in homogeneous, combination frequency components of, (T), 21:23192
current density in, second-harmonic generation by nonuniform microwave fields in, 22:19984
current distribution in cylindrical, with variable conductivity, pulsed, (T), 25:27721
current distribution in nonequilibrium, in argon—cesium pulse discharge with sectional electrodes, 25:9482
current distributions in planar anisotropic, (T), 25:47539
current flow in electrode discharge, skin effect in, (T), 22:9313
current intensity amplification in negative glow, of hollow-cathode discharge in magnetic field, (T), 23:1491
current interrelation between dc and rf signals in, 21:30091(R) (ANL-7210)
current layers formation in, with strong magnetic fields, (T), 25:38442
current measurement between shock-driven and flat plates, 22:5326 (SC-CR-67-2748)
current partitioning at tungsten cathode in 1-atm argon, 24:51629
current sheet formation and destruction in, (E), 23:30539
current sheet in electromagnetic shock tube with energy source of constant voltage, (E/T), 24:6546 (RISO-206)
current sheet structure in pinch-discharge, in rare gases, 21:25128 (N-67-12041)
current—voltage characteristic of argon, behind shock wave in nonself-maintaining discharge, (E), 25:7385
currents drawn to wedge probe in flow of collisionless, predictions, 22:48094
currents in linear discharge, magnetic interruption of, 21:31444
currents in magnetoplasmadynamic arc, (E), 23:1434(R) (N-68-27701)
currents in moving and decaying, diagnostics of, 21:20956
currents in seeded, electrode effects on, 21:7240
currents in stellarator-confined, from oscillation of helical winding currents, (T), 25:9511
currents in toroidal magnetized, in traveling rf fields, (E), 25:49892
cyclotron echo formation in nitrogen and rare gas, (E/T), 21:23186
cyclotron echoes in weakly ionized cesium, (E/T), 24:15366
data acquisition system for monitoring, use of loop multichannel tape recorders in, 21:19988 (MATT-503)
decay of discharge, in inert gases at high pressure with cesium vapor impurity, (E), 23:7006
decay of electron—hole, design of nanosecond rise time, high power, variable delay double pulse generator for measuring, 22:8415
deionization in mercury, (E), 21:25161
dense intergalactic, possibility of existence of, (T), 24:17609
density behavior of nonequilibrium Boltzmann gas, logarithmic, (T), 21:9557 (AD-643808)
density distribution changes in mercury discharge, microwave field effects on, 22:3095
density distribution changes in, effect of uhf electromagnetic field on, 21:46355
density distribution in stationary electromagnetic wave field, (T), 21:23191
density fluctuation approach to classical, (T), 22:24312
density fluctuations in hollow-cathode discharge, (E), 21:2228 (TID-23318, pp 93-121)
density fluctuations in, correlation velocities for, (T), 21:3885
density in magnetotail, (T), 22:13349
density of resonantly sustained, (E), 22:17702
density of, stabilized 70-GHz microwave interferometer for measuring, 24:14378
density perturbations in cesium, velocity of, (E), 22:34662
density variations of, in solar neighborhood, (E), 22:17300
detection of dense intergalactic, by x-ray emission, (E), 22:41178
determination of cesium ground-state depletion in low-pressure cesium—argon, (E), 22:7265
deuteron reactions with argon hollow cathode discharge at 10 to 70 keV, energy loss from, 21:33394 (AECL-2669)
deuteron—deuteron interactions in Burnout magnetic mirrors, 21:31473
diagnostic acquisition system for INTEREM facility, 24:32814 (ORNL-4425)
diagnostic drives and controls for thermonuclear research, 24:24045 (LA-4250, pp CII.6.1-5)
diagnostic experiment, laboratory simulation of satellite-mounted, 21:37300
diagnostic measurements of thermal, within magnetosphere, 21:24975 (N-67-11369)
diagnostic research using lasers, 21:9523(R) (LA-3628)
diagnostic techniques for, review of, 25:36095
diagnostic techniques for, survey of, 25:36090 (MATT-838)
diagnostics, 23:20931
diagnostics and production of pulsed, laser application for, 22:3020
diagnostics around hypervelocity projectiles, electron density, 21:15123
diagnostics around spheres using microwave scattering, (E/T), 24:12791
diagnostics at ion cyclotron resonance point, density and temperature, 21:7201
diagnostics behind collisionless shock waves, using Thomson scattering of laser light, (E), 23:51605(T) (NP-tr-1840)
diagnostics behind reflected shock waves, electron temperature, 22:36890
diagnostics behind reflected shocks in, split-image line reversal technique for, (E), 25:49872 (AD-721090)
diagnostics behind shock fronts, infrared, 25:11868(T) (SC-T-70-4054)
diagnostics behind shock waves, infrared method for electron density and temperature, (E/T), 24:40045
diagnostics by absorption of resonant laser radiation, temperature, (T), 23:36654
diagnostics by broadening of spectral lines in inhomogeneous interatomic electric fields, 25:52788
diagnostics by interference holograms in pulsed discharges, 21:37434
diagnostics by lasers, 21:25122
diagnostics by measuring Faraday effect on plane polarized laser light, 21:23163 (IPP-3/47)
diagnostics by probing with electron beams, (E), 21:16906
diagnostics by scattering method, calculation of critical aperture in, 22:46127
diagnostics by self-reversed contours of spectral lines, 22:5315
diagnostics during adiabatic compression in Tuman device, microwave, 24:37440
diagnostics during shock wave interactions, Langmuir probe, 23:5381
diagnostics during space vehicle re-entry, microwave, 25:22496
diagnostics for local thermodynamic equilibrium, using radiations from rf-excited, (E), 23:36661
diagnostics from electron-bombardment ion sources, 21:13541 (AGARD-CP-8(Vol.2), pp 385-418)
diagnostics from high-temperature sources, x-ray detection system for electron temperature, (E), 23:18611(P)
diagnostics from microwave noise in, electron temperature, 21:20929
diagnostics in 2X machine, spectroscopic, 21:27132 (UCID-15107)
diagnostics in 3-meter theta pinch Scylla IV, (E), 25:47512
diagnostics in ac arcs, calculation of temperature, 24:1386
diagnostics in arc discharges, electron and atom temperature, 22:5320
diagnostics in arcs in strong magnetic fields, temperature distribution, (T), 23:20888 (NP-17811)
diagnostics in arcs using carbon dioxide lasers, interferometric and Schlieren, 24:51616 (IPP-4/4)
diagnostics in arcs, density near electrode boundary in, (T), 25:1206
diagnostics in Astron device, carbon dioxide laser heterodyne system for, 25:11869
diagnostics in Astron device, density measurements from emitted light, 24:21823 (UCRL-50002-69, pp 78-115)
diagnostics in Astron during E-layer formation, rf, (E), 24:28238
diagnostics in axial-discharge afterglow, using double electric probes, 24:47214
diagnostics in beam-plasma discharge, ion energy, (E), 22:34594 (TID-24491, pp 111-16)
diagnostics in Burnout V during turbulent heating, spectroscopic, (E), 23:34378 (ORNL-4401, pp 98-112)
diagnostics in Burnout V facility, 24:45220 (ORNL-4545, pp 72-103)
diagnostics in Burnout V, fractional fringe HCN laser interferometer for, 25:19663
diagnostics in C stellarator, density, (E), 22:24242 (MATT-Q-25, pp 30-117)
diagnostics in C stellarator, electron and excited-state densities in helium afterglow, (E/T), 24:12788 (MATT-610)
diagnostics in C stellarator, helium electron density and excited state populations in, 24:3320
diagnostics in Chalice cusped geometries, (E/T), 23:20889(R) (SIT-2582-27)
diagnostics in Chalice device, research on, 24:37434 (SIT-2582-33)
diagnostics in Chalice device, Thomson scattering for measurement of electron temperatures, 24:5156(R) (SIT-2582-31)
diagnostics in Chalice, data acquisition system for Thompson scattering, 24:24033 (LA-4250, pp B4.1-4)
diagnostics in closed systems, methods for electron confinement, 24:12796
diagnostics in coaxial discharges, using magnetic probes, 24:32815
diagnostics in collisionless shocks, calorimetric measurement of electron temperature, (E), 23:36659
diagnostics in collisionless shocks, density and electron temperature from laser scattering, (E), 24:5153 (IPP-1/94)
diagnostics in Columba Z-pinch, argon and deuterium, (E), 23:14739(R) (LA-4075)
diagnostics in cusped geometry Chalice, Thomson scattering, 24:42658(R) (SIT-2582-34)
diagnostics in cylindrical and spherical discharge tubes, electron distribution, 23:1391
diagnostics in cylindrical column by longitudinal resonances of surface waves, electron density, (E), 23:32349
diagnostics in cylindrical columns, by surface wave resonances, (T), 24:8440
diagnostics in cylindrically symmetric electric arc columns, temperature, 22:52759
diagnostics in dc arcs, radial temperature distribution, 21:42030
diagnostics in DCX-2 device, 21:13528 (ORNL-4063, pp 10-20)
diagnostics in diffuse toroidal pinches, laser measurement of poloidal magnetic field, 24:47203 (ORNL-TM-3128)
diagnostics in diffusion-controlled discharges, radial and longitudinal charge distribution, (E), 25:1174
diagnostics in diffusion-controlled, radial profiles of carrier density and energy, (E), 23:14763
diagnostics in direct energy conversion devices, spectroscopic, 21:13601 (AGARD-CP-8(Vol.1), pp 279-324)
diagnostics in discharges, inhomogeneity effects on temperature in, (E), 23:23090
diagnostics in discharges, noise temperature using external probes, 24:40051
diagnostics in electric arcs, spectral for argon, 21:44036
diagnostics in electric arcs, using lasers, (E), 23:5380(P)
diagnostics in electric discharges, electron drift velocity, 21:37436
diagnostics in electrodeless accelerator, spectroscopic, 21:23164 (NP-16694)
diagnostics in electrodeless discharges, spectroscopic, 22:50142
diagnostics in electromagnetic shock tubes, using microwaves, 22:19952
diagnostics in exosphere by whistlers, 21:27057
diagnostics in fast theta pinch, ion energy distribution, (E), 23:32347 (IPP-1/93)
diagnostics in focus machine, using laser scattering, 24:17884 (CEA-CONF-1344)
diagnostics in Fontenay-aux-Roses injection device, 21:750
diagnostics in free-burning arcs, density and temperature, 25:7368
diagnostics in free-burning arcs, spectroscopic, (E/T), 25:58998
diagnostics in gas-discharge tubes, three-mirror laser interferometer for, 24:11867
diagnostics in glow discharges, impurity effects on Langmuir probe, 24:45232
diagnostics in glow discharges, mass spectrometer for, 21:31404
diagnostics in hf discharges, circuit for measuring electron energy distribution, (E), 24:37455
diagnostics in hf discharges, electron density and temperature, (E), 23:32348 (NP-17903)

diagnostics in hf electrodeless ring discharge, electron density and temperature, (E), 23:12781
diagnostics in hf glow discharges, using orifice probes, 25:25092
diagnostics in hf ring discharges, Langmuir probe measurement of electron energy, 24:47213
diagnostics in high-current hollow-cathode discharges, temperature, 22:52750
diagnostics in high-power pulsed discharges, electron temperature, 21:46320
diagnostics in high-pressure discharges, use of rotational and vibrational temperatures for, 24:21775
diagnostics in high-pressure torch discharges, electron energy distribution, 21:29217
diagnostics in high-temperature arcs, radial temperature distributions, (E), 23:25300
diagnostics in hollow-cathode arcs, 22:22148 (TID-24331, pp 167-209)
diagnostics in hollow-cathode arcs, 22:9308 (TID-24203, pp 73-134)
diagnostics in hollow-cathode arcs, ion temperature, 22:22147 (TID-24331, pp 121-52)
diagnostics in hollow-cathode MPD arcs, (E), 23:16779 (N-68-33838)
diagnostics in hydrogen-arc, electron density and temperature, 21:42041
diagnostics in IMP facility, apparatus design for, 24:45265 (ORNL-4545, pp 38-57)
diagnostics in inertial electrostatic confinement device, methods for, 25:33318(R) (NYO-4109-2)
diagnostics in inverse-z pinch, shock wave effects on, 21:11604 (IPP-1/52)
diagnostics in ISAR I, interferometric, 21:37416 (IPP-1/64)
diagnostics in L-1 stellarator, equipment for electron density and fluctuation, 22:44091 (NP-17587)
diagnostics in large theta pinch, electron density, 22:9299
diagnostics in laser cavities, electron density, 24:35397
diagnostics in levitated pulsed octupole, density, 25:7364 (COO-1726-54)
diagnostics in linear octupole and quadrupole guide fields, (E), 23:42279
diagnostics in long theta-pinch, temperature and density, (E), 24:3317
diagnostics in low-pressure rare gas discharges, using probes, 24:12853 (AD-481429)
diagnostics in magnetic fields, electron density from spectroscopic, (E), 23:23096
diagnostics in magnetic mirrors with hexapole fields, use of probes in, (E), 22:46124 (TID-24666, pp 92-5)
diagnostics in magnetic mirrors, cavity perturbation technique for density, (E), 23:48882
diagnostics in magnetic quadrupole fields, electron density, 21:35139 (CONF-661041-6)
diagnostics in magnetic-mirror compression experiment, density profile, floating potential, and flux line measurements, 24:42725(R) (UCB-34-P-128-11)
diagnostics in magnetic-mirror compression experiment, density and energy, (T), 24:42726(R) (UCB-34-P-128-12)
diagnostics in medium-beta torus JFT-2, microwave interferometric, (E), 25:58979 (JAERI-Memo-4530)
diagnostics in metal vacuum chambers, diamagnetic probe, 21:11613
diagnostics in MHD ducts and combustion chambers, spectroscopic, (E), 23:46338
diagnostics in MHD ducts, temperature, (E), 23:46339
diagnostics in microwave discharges, using skin effect, 24:37439
diagnostics in moving striations, electron energy and density, (E/T), 23:25293 (BMwF-FBK-69-3, pp 9.1-12)
diagnostics in negative luminescence glow discharges, electron energy distribution, (E), 25:7369
diagnostics in nitrogen arc, radial temperature distribution, (E), 24:17894
diagnostics in noisy discharges, electron energy distribution from two-probe, 24:45228
diagnostics in Ogra II, ionization gage for molecular flux density, 25:9430
diagnostics in open cavity resonators, electron collision frequency, 22:34596
diagnostics in Ormak device, research on, 25:45507 (ORNL-4688, pp 44-66)
diagnostics in Ormak-II, feasibility of Thomson scattering for poloidal magnetic fields, (E), 25:1173 (ORNL-TM-3093)
diagnostics in PIG discharges, Langmuir probe, 21:7274 (AD-636956)
diagnostics in PIG discharges, probe for, 21:15103 (CONF-660221-, pp 372-5)
diagnostics in pinch device with rotating fields, electron density, 22:13437 (LRP-36/67)
diagnostics in pinch-discharge laser, spectroscopic, (E), 24:1389
diagnostics in Polytron cusped fields, (E/T), 25:38413 (CONF-710607-44)
diagnostics in positive column discharges, use of atomic temperatures for, (E/T), 24:26158
diagnostics in positive column in magnetic fields, radial density distribution, (T), 24:30322
diagnostics in positive column, effects of gas heating and volume recombination on electron density, 21:18656
diagnostics in positive column, in nonhomogeneous hf fields, 21:23184
diagnostics in positive column, using microwaves, (E), 24:51628
diagnostics in Proto—Cleo stellarator, ion temperature, (E), 25:38405
diagnostics in pulsed discharge, limitations on magnetic probes for, 23:1397
diagnostics in pulsed discharges, density, 23:5386
diagnostics in pulsed reflex PIG discharge, using microwaves, 24:3337
diagnostics in Q devices, camera for, 25:36099
diagnostics in Q devices, comparison of microwave, Langmuir probe, and resonance fluorescent scattering methods for, 21:35140 (CONF-670104-Pt.2, pp 523-30)
diagnostics in Q devices, energy analysis of cesium ions, 25:27686
diagnostics in Q devices, ion and electron temperature, (E), 24:26166
diagnostics in Q devices, ion energy using electrostatic disturbances, (E), 24:26160
diagnostics in Q-devices, camera for, 22:31793 (SIT-2813-45)
diagnostics in Ramus installation, calorimetric, 23:12763 (NP-17749)
diagnostics in Ramus installation, colorimetric, 23:44392(T) (AEC-tr-7068)
diagnostics in reactor cores, microwave, 21:7203
diagnostics in reflex discharges, using cw laser scattering, 22:29472
diagnostics in resonant cavities, electron density, 22:31792 (IPPCZ-53)
diagnostics in resonant cavities, sampling system to display frequency shifts in, 24:19875
diagnostics in resonating column, dipolar radial electric fields from probe, (E), 25:47510
diagnostics in reverse-brush-cathode device, digital correlation measuring device for, 24:47202 (IPPJ-DT-16)
diagnostics in rf discharges, electron temperature, (E), 23:14765
diagnostics in rf sputtering glow discharge, (E), 25:38404
diagnostics in ring discharges, xenon energy, 21:15108
diagnostics in rotating hf fields, electron density gradient from Schlieren, (E), 23:23083 (LRP-38/68)
diagnostics in scalloped-torus-type devices, spectroscopic, 24:45227
diagnostics in Scylla 1A toroidal theta-pinch, (E), 23:14739(R) (LA-4075)
diagnostics in Scylla devices, research on, (E/T), 25:30450(R) (LA-4585)
diagnostics in Scylla IV theta pinch, using Faraday rotation, 22:1155 (LA-3770, Paper A3)
diagnostics in shock tubes, electron density from interferometric, 21:42034
diagnostics in shock tubes, electron temperature, 24:30317
diagnostics in shock tubes, electron temperature and density, 25:9418
diagnostics in shock tubes, spectroscopic, (E), 22:13449
diagnostics in shock tubes, using Lecher wires, 21:35147 (IPP-3/53)
diagnostics in single-ended Q device, ion density, 21:33397 (CONF-670104-Pt.1, pp 35-47)
diagnostics in slow theta pinch BSG-I using laser scattering, (E), 25:7366 (IPPJ-96)
diagnostics in spark discharges, spectroscopic, (E/T), 23:32351
diagnostics in spark discharges, temperature and electron density, (E), 25:56142
diagnostics in standing striations, using microwaves, 21:31405
diagnostics in static magnetic fields, impedance of rf probe in, (E/T), 24:37352
diagnostics in stationary induction discharges, spectra for temperature, 21:44038
diagnostics in strong hf discharges, using corpuscular method, 25:45456 (NP-18946)
diagnostics in strong magnetic fields, emission probes for potential, (E), 25:22491
diagnostics in strong magnetic fields, using electron plasma waves, (T), 23:25302
diagnostics in strong shock waves, argon and xenon, (E), 25:22483
diagnostics in strong shock waves, ion energy distribution and density profile, (E), 23:32355
diagnostics in thermal argon, from standard intensity source at 1100 to 3100 A, carbon dioxide-, hydrogen-, and nitrogen-seeded, (E), 25:30488
diagnostics in thermonuclear devices, temperature profile in, 25:56216 (NP-19014)
diagnostics in theta pinch with azimuthal magnetic field, density and temperature, 22:15514
diagnostics in theta pinch, ion energy, 24:23958
diagnostics in theta pinch, using holographic interferometry, 24:47204
diagnostics in theta pinch, using neutron yields, (E), 23:23081 (IPP-1/90)
diagnostics in theta-pinch Balloon experiment, 22:50126(R) (EUR-CEA-FC-352)
diagnostics in theta-pinch, electron density and magnetic field from Faraday rotation of laser beams, (E), 25:49873 (IPP-1/116)
diagnostics in theta-pinch, using Faraday rotation, (E), 23:36655
diagnostics in tokamak devices, current density distribution, (E), 25:47502 (JAERI-Memo-4437)
diagnostics in Tokamak T-3 device, energy, (E), 24:45229
diagnostics in Tokamak T-3a, using lasers and microwaves, (E), 25:52786
diagnostics in Tokamak T3-A, density and temperature, (E), 25:5079 (CLM-R-107)
diagnostics in Tokamak TM-3 device, neutral hydrogen atom density, 23:1389
diagnostics in Tokamak TM-3, electron temperature by Thomson scattering, 24:6524
diagnostics in Tokamak TM-3, using fast hydrogen atomic beams, 25:22492
diagnostics in Tokamak-3 device, energy, (E), 23:12762 (IAE-1601)
diagnostics in Tokamak-3 device, energy, (E), 23:42233(T) (MATT-Trans-87)
diagnostics in Tokamak-3, by Doppler broadening of deuterium and helium lines, 24:30321
diagnostics in Tokamak-3, from Doppler broadening of spectral lines of neutral hydrogen and deuterium, 24:15276(T) (CTO-681)
diagnostics in Tokamak-5, spatial distribution of ion temperature, (E), 25:36097
diagnostics in tokamak-type devices, current distributions from laser scattering, 25:11867 (MATT-818)
diagnostics in tokamaks using alpha particles, current distribution, (T), 25:58980 (JAERI-Memo-4531)
diagnostics in toroidal magnetic fields, plasmoid, (E), 21:3824
diagnostics in toroidal magnetic traps, flow measurements using probes, 24:45223 (NP-18372)
diagnostics in toroidal magnetic traps, using plane probe, 25:9410(T) (CTO-736)
diagnostics in toroidal octupoles, distribution functions, (E), 25:11872
diagnostics in transverse magnetic fields, (E), 21:3822
diagnostics in wall-stabilized arcs, laser interferometer technique for electron density, 22:7271
diagnostics in wall-stabilized electric arcs, (T), 23:25297
diagnostics in weak-current arc discharges, optical probe, 24:49119
diagnostics in wide unstable positive column, radial density distribution, 22:44103
diagnostics method, temperature effects on whistler resonance, 22:1160
diagnostics near antennas, using microwaves, 22:19951
diagnostics near boundary of quartz wall, temperature, 25:58985
diagnostics near ion cyclotron resonance, in mirror traps, 21:9547
diagnostics of acoustic waves in, electron density, (E), 22:11422
diagnostics of afterglow helium and neon, mass spectroscopy, 21:18655
diagnostics of afterglow, electron temperature and density decay in, 21:9569
diagnostics of afterglow, microwave interferometer for, 24:26153
diagnostics of afterglow, sensitive microwave-gated radiometer for, 25:40601
diagnostics of afterglow, using microwaves, 22:46125
diagnostics of air behind strong shock waves, probe, 24:49118
diagnostics of alkali metal, in Q device, (T), 22:11404(R) (LA-3831)
diagnostics of alkali metal, using electrostatic probes, 22:19946 (MATT-520)
diagnostics of alkali-metal-seeded argon, temperature, 22:9292
diagnostics of alkali-seeded argon in electric fields, temperature, 22:3036
diagnostics of anisotropic deuterium, using time-resolved neutron spectra, (E), 25:7365 (IPP-1/109)
diagnostics of anisotropic, performance of electrodeless conductivity probe for, 24:19872
diagnostics of anisotropic, using transient signal reflection, 21:7196
diagnostics of anisotropic, with Fabry—Perot resonator, (E), 23:44398
diagnostics of arc discharge, electron energy distribution, 21:29216
diagnostics of arc, review of methods for particle-density and temperature measurement, 23:30532
diagnostics of arc, spectral analysis for electron density, 22:52752
diagnostics of arc, spectroscopic measurement of electron density and atom and ion temperatures, 22:41549
diagnostics of arc, spectroscopic method for, 23:5393
diagnostics of arc, using double floating probes, 22:24267
diagnostics of arc, using vacuum uv radiation, 22:34586 (AD-662626)
diagnostics of arc-heated, refractive index, 21:23160 (ARL-66-0222)
diagnostics of argon afterglow, electron temperature and density, (E), 23:30528
diagnostics of argon afterglow, electron velocity distribution function, (T), 21:39972 (TID-23971, pp 123-212)
diagnostics of argon afterglow, microwave and spectroscopic, 25:14257
diagnostics of argon and helium, spectroscopic determination of electron and ion temperature, (E), 24:6517 (AD-694063)
diagnostics of argon and hydrogen arc, photoelectric spectroscopic, (E), 23:23089
diagnostics of argon and nitrogen discharge, spectral, 21:42039
diagnostics of argon and nitrogen, spectroscopic, 21:11603 (ARL-65-92)
diagnostics of argon arc, electron temperature from spectral line intensities, (E/T), 22:36894
diagnostics of argon arc, electron-density measurements using laser interferometers, 21:42042
diagnostics of argon arc, ion temperature, charge exchange and collisions, (E), 22:34616
diagnostics of argon arc, spectroscopic, 22:34619
diagnostics of argon arc, spectroscopic determination of electron density in, (E/T), 22:36901
diagnostics of argon arc, spectroscopic temperature measurement, (T), 23:44393 (PB-184132)
diagnostics of argon arc, spectroscopic, (E), 22:29474
diagnostics of argon arc, spectroscopic, (E/T), 25:56139
diagnostics of argon arc, temperature, 21:44045
diagnostics of argon arc, temperature distribution and thermal conductivity in, (E), 25:56140
diagnostics of argon arc, thermodynamics, (E), 25:30478(T) (SC-T-713024)
diagnostics of argon arc, using lasers, (E), 23:12778
diagnostics of argon arcs, spectroscopic, 25:52781 (AD-720856)
diagnostics of argon discharge, axial current density, (E), 23:23098
diagnostics of argon discharge, continuum probe theory for, 25:9429

diagnostics of argon discharge, electrostatic probe determination of electron density, (E), 24:23959
diagnostics of argon discharge, radial particle distribution, (E/T), 25:1179
diagnostics of argon discharge, using Langmuir probes, (E/T), 21:15121
diagnostics of argon in rf discharges, potential, (E), 24:40040 (AD-705134)
diagnostics of argon pinch, luminous radiation from, (E), 23:23095
diagnostics of argon positive column, electron density, 21:23171
diagnostics of argon rf discharge, electron density and temperature, 25:49879
diagnostics of argon thermal induction, maintenance potential, (E), 24:40075
diagnostics of argon theta pinch, temperature, 21:31395 (BRL-MR-1847)
diagnostics of argon Z-pinch, microwave measurement of ion density and current distribution, (E), 24:3314
diagnostics of argon, aerodynamic, 21:42032
diagnostics of argon, effects of rf potential on electron energy and density, 22:39048
diagnostics of argon, electron—atom collision frequency, 22:22137 (TID-24331, pp 153-65)
diagnostics of argon, in positive column, under conditions for helical instability, 24:23951
diagnostics of argon, in Saha equilibrium, computer program for, 23:10613
diagnostics of argon, interferometric, (E), 23:25303
diagnostics of argon, radial electron density and energy distribution profiles, (E), 25:1176
diagnostics of argon, relaxation phenomena in shock tubes, (E), 25:3064
diagnostics of argon, spectroscopic temperature, 21:37423
diagnostics of argon, spectroscopic, (E), 22:22139
diagnostics of argon, spectroscopic, (E), 22:50138
diagnostics of argon, spectroscopic, (E), 23:10625
diagnostics of argon, using transverse and longitudinal uhf microwaves, (E), 23:51610
diagnostics of argon-arc, with sodium impurities, 21:46324
diagnostics of axially symmetric arc-heated, differential interferometer use for, 21:7185 (AD-633646)
diagnostics of barium and barium—cesium, ion energy, 21:29207
diagnostics of barium atomic beam in Q device, spectroscopic, 23:5379 (IPP-2/66)
diagnostics of barium or barium-doped, using tunable dye lasers, 23:39454
diagnostics of barium Q, electron and ion temperature, (E), 24:30329(R) (SIT-2813-49)
diagnostics of barium Q, electron temperature from luminosity of, (T), 22:26370
diagnostics of barium Q, optical, 21:35141 (CONF-670104-Pt.2, pp 531-42)
diagnostics of barium, in Q devices, 21:27145(R) (SIT-2813-40)
diagnostics of barium, using optical scattering, 22:1164
diagnostics of beam-induced oscillations in, spectroscopic, (E/T), 24:35395
diagnostics of beam-produced, density and potential distribution, (T), 23:48883
diagnostics of boundary of, laser photography for, 21:46327
diagnostics of bounded, using spherical electrostatic probe, properties of, (T), 24:21770
diagnostics of capillary discharge, capillary radius effect on temperature, (E), 21:2214
diagnostics of carbon, transition probability measurements for, 21:29202 (LRP-29/66)
diagnostics of carbon, two-wavelength interferometry of laser-produced, 22:11424
diagnostics of carbon, using ion excited states, 21:31397 (INR-782/XVIII/PP)
diagnostics of carbon-arc, electron density, 21:743
diagnostics of cesium and potassium, Q device for, 22:9290
diagnostics of cesium arc, energy level splitting from Stark effect in, (T), 23:42237
diagnostics of cesium diodes, electron beam probing techniques for, 21:42040
diagnostics of cesium discharge, spectroscopic, 25:19665
diagnostics of cesium discharge, spectroscopic, 25:25094
diagnostics of cesium in thermionic cells, inert gas background effects on, 21:2074(R) (AD-631005)
diagnostics of cesium using Langmuir probes, atomic production cross sections from, 24:47206
diagnostics of cesium, local potential and density fluctuation, (E/T), 24:40047
diagnostics of cesium, mass-spectrometric, (E), 23:10618
diagnostics of cesium, spatial distributions in, (E), 24:47215
diagnostics of cesium, Stark spectral shift for electron density, 21:2203(R) (N-66-21655)
diagnostics of cesium, Stark-broadening measurements for electron density, 25:9421
diagnostics of cesium, using grid probes, 21:31401
diagnostics of cesium, using hf spherical and Langmuir, (E), 23:34396
diagnostics of cesium, using hot and cold probes, (E), 25:58986
diagnostics of cold collisionless, using microwaves and Fabry—Perot interferometers, 25:9408 (COO-1789-1)
diagnostics of cold, using 90° laser scattering, (E), 23:18610
diagnostics of collision-dominated magnetized, saturation currents to Langmuir probes for, (T), 24:3309
diagnostics of collision-dominated non-Maxwellian, antenna for, 24:12792
diagnostics of collision-dominated, Langmuir probe performance for, (T), 23:34385 (AD-682519)
diagnostics of collisional, Langmuir probe theory for, 22:1272(R) (SU-IPR-198)
diagnostics of collisional, spherical probe analysis for, (E/T), 22:36893
diagnostics of collisional, using microwave probing, (T), 25:33230
diagnostics of collisionless Maxwellian, spherical and cylindrical Langmuir probe theory for, 22:11427
diagnostics of collisionless sheath, electrostatic probe, (E/T), 25:33231
diagnostics of collisionless theta-pinch, anomalous energy loss, 21:35146 (IPP-1/61)
diagnostics of collisionless, probe method for density, 25:38407
diagnostics of collisionless, using cylindrical probes, (T), 23:42245
diagnostics of column of, density gradient in, (E), 23:5384
diagnostics of column of, electron and neutral gas density variations in, 21:23158(R) (AD-631843)
diagnostics of column, electron density and radial distribution, (E), 23:34391
diagnostics of conical-electrode shock tube, spectroscopic, 21:7200
diagnostics of constricted-discharge hydrogen, spectroscopic, (E), 23:51606
diagnostics of continuum flowing, using conical electrostatic probes, 24:26151 (AD-701083)
diagnostics of continuum gas, theory of cooled spherical electrostatic probe for, 25:58982
diagnostics of contracted argon column, microwave, 25:30486
diagnostics of cyclotron echoes in, electron beam probing for, 21:29224(R) (SU-IPR-145)
diagnostics of cylindrically symmetrical transparent, temperature, 21:18646
diagnostics of decaying helium, time dependence of ion density, (E), 21:18700
diagnostics of decaying helium, using lasers and microwaves, 22:44101
diagnostics of decaying helium—neon and neon, time dependence of ion density, (E), 21:18701
diagnostics of decaying hydrogen, atomic density, 21:15106 (UCRL-17177)
diagnostics of decaying hydrogen, atomic density, 22:11428
diagnostics of decaying hydrogen, neutral atom density, (E), 22:36892
diagnostics of decaying hydrogen, probe interferometer, (E), 23:48884
diagnostics of decaying hydrogen, spectral and microwave, (E), 23:36652 (NP-17950)
diagnostics of decaying hydrogen, using double microwave interferometers, 22:50137 (NP-17620)
diagnostics of decaying lithium, temperature estimation, 24:23954
diagnostics of decaying, Alfven wave determination of neutral particle density, 21:18642 (NP-16631)
diagnostics of dense argon, electron-heavy particle nonequilibrium, 21:15102 (ARL-66-0143)
diagnostics of dense argon, using cooled electrostatic probe, (E), 21:9554
diagnostics of dense oscillating, potential variations, 24:21773
diagnostics of dense steady-state, using microwave interferometers, 23:3461
diagnostics of dense xenon discharge, temperature, (E/T), 24:17887
diagnostics of dense, calorimetric probe with electric-arc air heater method for, (E), 25:33234
diagnostics of dense, produced by explosion of wires and mercury filaments, 23:5385
diagnostics of dense, spectroscopic, (E/T), 24:5159
diagnostics of dense, transient probe response for, 24:10505 (AD-695052)
diagnostics of dense, using laser interferometers, 22:1151(R) (AD-646889)
diagnostics of dense, using scattered gamma radiation, (E), 23:51609
diagnostics of deuterium arc, density determination using deuteron beams, 21:735 (AD-628890)
diagnostics of deuterium by efflux velocity measurements, temperature, 22:48088
diagnostics of deuterium discharge, by self-reversed spectral lines, (E/T), 22:52757
diagnostics of deuterium theta-pinch, using space—time resolved Mach—Zehnder interferometers, (E), 23:12780
diagnostics of deuterium, spectroscopic, 22:46133
diagnostics of deuterium, spectroscopic, 23:6982
diagnostics of deuterium, using 90° laser scattering, (E), 23:20885 (CEA-CONF-1036)
diagnostics of deuterium, using carbon dioxide lasers, (E), 25:1177
diagnostics of deuterium, using differential neutron spectrum, 22:48087
diagnostics of deuterium, using molecular hydrogen ion dissociation, 21:15107
diagnostics of deuterium, using neutrons from d—d interactions, 21:35145 (IPP-1/60)
diagnostics of deuterium, using neutrons from d—d reactions, 23:3453(T) (NP-tr-1671)
diagnostics of deuterium, using neutrons from d—d interactions, 22:26364(T) (LA-tr-67-113)
diagnostics of deuterium, vacuum uv spectroscopy of electron temperature, 25:9407 (CEA-N-1391)
diagnostics of deuterium—tritium, using carbon dioxide lasers, 25:33243
diagnostics of diffusion in magnetic fields, ac, (E), 24:21768
diagnostics of diffusion-controlled, distribution of charge carriers in, 22:39045
diagnostics of discharge afterglow, using microwave probing of standing acoustic waves, 21:7194
diagnostics of discharge column of, surface wave analysis for, (E/T), 21:11602 (AFCRL-66-765)
diagnostics of discharge, dc probe for, 21:9544
diagnostics of discharge, electron energy distribution, (E), 25:56138
diagnostics of discharge, Langmuir paradox observation in, 23:1390
diagnostics of discharge, microwave and spectroscopic, (E/T), 24:30312 (AD-691905)
diagnostics of discharge, pressure effects on probe, (E), 25:33240
diagnostics of discharge, probe noise in, (E), 23:12784
diagnostics of discharge, probe techniques for, 21:15110
diagnostics of discharge, properties of incandescent probe, 21:46323
diagnostics of discharge, temperature, (E/T), 25:9411 (ECRC/N-288)
diagnostics of discharge, time-resolved measurements of electron energy distribution, (E/T), 23:25294 (BMwF-FBK-69-3, pp 11.1-12)
diagnostics of discharge, using refracting microwave beam, (E), 24:3305(T) (LA-tr-69-27(Draft))
diagnostics of discharge, using toroidal resonators, 21:13548
diagnostics of discharge-produced hydrogen, hot electron, 21:11616
diagnostics of drifting, using multi-grid probes, 25:22494
diagnostics of ECR-heated, swept Langmuir probe for, 25:40602
diagnostics of electric discharge, temperature, (E/T), 21:5252
diagnostics of electric field-produced hydrogen, microwave, 22:3019 (JUL-480-PP)
diagnostics of electric-field-excited toroidal hydrogen, using microwaves, 22:19949(T) (NP-tr-1630)
diagnostics of electrodeless discharge, (E/T), 22:50140
diagnostics of electrodeless discharge, using double probes and laser scattering, 24:40039 (AD-704822)
diagnostics of electrodeless rf, use of electrostatic probes for, 22:19950
diagnostics of electron beam-excited, microwave, 21:11609(R) (NP-16471)
diagnostics of electron beam-produced, electron density, 22:44106
diagnostics of electron cyclotron resonance, electron anisotropic energy distribution, 21:33378
diagnostics of electron cyclotron, using microwaves, (E), 21:29287 (COO-1695-1)
diagnostics of electron density fluctuations in, ultrahigh-frequency probe studies, 22:44090 (NP-17571)
diagnostics of electron-beam produced, density distribution, 21:5304
diagnostics of electron-cyclotron-resonance-heated, research on, 25:38484(R) (COO-1695-33)
diagnostics of energetic, polarized pyrometric probe performance for, 21:35144 (CONF-670104-Pt.2, pp 589-98)
diagnostics of equilibrium, electron density fluctuations, (T), 23:23091
diagnostics of exploding-wire nonstationary column, optical thickness, 23:44402
diagnostics of fast protons in cold, energy losses in, 24:47225
diagnostics of fast theta-pinch, using lasers, 21:3828
diagnostics of fission-fragment-produced helium—neon, electron density, (E), 23:25298
diagnostics of flame, probe measurements of electron temperature, (E), 23:20896
diagnostics of flow in MHD channel, calculated spectral shapes for self-reversed lines used in temperature, 25:33229
diagnostics of flowing collisionless, Langmuir probe theory for, 23:5391
diagnostics of flowing partially ionized dense, using electrostatic probes, 23:6983
diagnostics of flowing, classical Langmuir probe theory for, 21:25113(R) (N-67-11698)
diagnostics of gamma-ionized, nonlinear electric fields in, (T), 25:33223
diagnostics of gas-discharge, probe technique for, (E), 25:33159
diagnostics of gas-driven shock-tube, by spectroscopic measurements, 21:25114(R) (N-67-12078)
diagnostics of gaseous, use of Michelson-type carbon dioxide laser for, 21:31416
diagnostics of glow discharge, anode effects on electron energy, 21:11607 (NP-16434)
diagnostics of helium afterglow, electron binding energy, 22:48099
diagnostics of helium afterglow, Langmuir probe, 23:48885
diagnostics of helium afterglow, using Langmuir probes and microwaves, 22:1167
diagnostics of helium afterglow, using Langmuir probes, 22:44100
diagnostics of helium afterglow, using mass spectrometers, 22:44099
diagnostics of helium afterglow, using microwave interferometers, 25:9417
diagnostics of helium afterglow, using microwaves, 22:31797
diagnostics of helium afterglow, using narrow-band far-infrared interferometer, 22:22147 (TID-24331, pp 121-52)
diagnostics of helium and hydrogen discharge, electron density, (E/T), 25:25090
diagnostics of helium arc, electron density determination from He$^+$ 3203 A line, 22:7262
diagnostics of helium arc, pressure profiles and, (E/T), 22:39054
diagnostics of helium arc, spectroscopic, (E), 24:3306 (N-69-36755)
diagnostics of helium arc, using spectroscopic techniques, (E), 25:5082 (N-70-33122)
diagnostics of helium discharge, effect of atom collisions on Langmuir probe, 24:32818
diagnostics of helium discharge, second derivative of spherical probe curve from, (E/T), 23:25292 (BMwF-FBK-69-3, pp 4.1-8)
diagnostics of helium in magnetic fields, rf and spectroscopic methods for, 21:13540 (AGARD-CP-8(Vol.1), pp 325-52)
diagnostics of helium positive column discharge, continuous spectra for, (E/T), 24:26159

diagnostics of helium reflex discharge, electron velocity distribution from laser scattering, 22:34592 (TID-24491, pp 43-5)
diagnostics of helium theta pinch, spectroscopic, (E), 23:51619
diagnostics of helium z-pinch discharge, time developments in, 24:21772
diagnostics of helium, by probing with H_2^+ beams, density, (E), 23:27612
diagnostics of helium, determination of excited population densities by electron impact spectroscopy, (E), 25:30481
diagnostics of helium, effects of cascading and metastable atoms on electron temperature, (E/T), 22:24268
diagnostics of helium, electron temperature determination from intensity of 4686 A line, (E), 24:12635
diagnostics of helium, electron temperature from He I intensity measurements, (E), 23:27603 (MATT-Q-26, pp 1-141)
diagnostics of helium, electron temperature from spectra line intensities, (E), 23:44397
diagnostics of helium, excitation in stationary PIG discharge, population densities from, (E/T), 25:30479
diagnostics of helium, from Stark broadening of spectral lines, 22:34607
diagnostics of helium, in T shock tubes, (E/T), 23:27613
diagnostics of helium, microwave density measurement system with microsecond response time, (E), 24:15281
diagnostics of helium, spectroscopic, 21:11614
diagnostics of helium, temperature determination from spectra, 22:1161
diagnostics of helium, using optical techniques, 22:24261
diagnostics of helium, using Stark profiles, (T), 23:44391 (AD-687283)
diagnostics of helium—krypton discharges, 21:29210
diagnostics of helium-3, using pulsed ionization chamber techniques, 24:6527
diagnostics of hf discharge, spectroscopic, (E), 23:34389(T) (AEC-tr-7065)
diagnostics of hf helium discharge, electron density and temperature, 21:18647
diagnostics of hf helium discharge, electron temperature, 23:1398
diagnostics of high speed flows, instrumentation for, 21:2218
diagnostics of high temperature, microwave component analysis for, 21:11611 (RT/ING-(66)6)
diagnostics of high-β, diamagnetism in magnetic mirrors, 23:34377 (ORNL-4401, pp 79-97)
diagnostics of high-current discharges with skin effect, microwave, 25:9424
diagnostics of high-current toroidal, turbulence effects in, (E/T), 23:14825
diagnostics of high-frequency argon discharge, probe, (E), 23:20892
diagnostics of high-pressure and high-temperature uranium, (E), 25:7387
diagnostics of high-pressure rare gas, temperature and electron density, 23:6978
diagnostics of high-pressure, energy density and conductivity, 21:11617
diagnostics of high-pressure, pulsed Langmuir probe measurement of ionization, 24:47211
diagnostics of high-pressure, spectroscopic, 22:36897
diagnostics of high-temperature alkali-seeded argon, electrostatic probe theory for, 22:11425
diagnostics of high-temperature and high-pressure nitrogen, density, 21:31400
diagnostics of high-temperature discharge, errors in magnetic probe measurements, 24:15290
diagnostics of high-temperature helium, electron density, 21:23163 (IPP-3/47)
diagnostics of high-temperature using laser scattering, (E), 25:25091
diagnostics of high-temperature, apparatus for measurement of collisions in, (E), 25:7374
diagnostics of high-temperature, by two-seeding method, temperature, 22:24270
diagnostics of high-temperature, conference on, 25:5080(T) (LA-4520-TR)
diagnostics of high-temperature, passive corpuscular, 24:45225
diagnostics of high-temperature, review of spectroscopic, 25:30492
diagnostics of highly ionized steady-state, mass—energy, 25:38400 (IPPJ-DT-22)
diagnostics of highly ionized, density calculation of thermodynamic equilibrium, (T), 25:25097
diagnostics of highly transient, laser interferometer for, 24:16925
diagnostics of hot deuterium using time-resolved neutron spectra, velocity distribution, 25:33218(T) (ORNL-tr-2429)
diagnostics of hot deuterium, using neutrons from, 22:1169
diagnostics of hot isotropic, properties of quadrupolar probe, 24:51623
diagnostics of hot nonuniform, using microwaves, 21:16908
diagnostics of hot, electrostatic analyzer for electron and ion energies, 22:1153 (IPP-1/66)
diagnostics of hot, ion energy spectra, 21:23161 (CEA-R-3129)
diagnostics of hot, optical spectra measurements for proton velocity distribution, 25:30493
diagnostics of hot, review of corpuscular method for, 22:9296
diagnostics of hot, using incident radiation of two wavelengths, 24:37435 (SIT-2582-33, pp 1-13)
diagnostics of hot-electron mirror-confined, performance evaluation for, 25:30489
diagnostics of hot-ion, optical spectra for measuring electric fields, (E), 25:11874
diagnostics of hydrogen afterglow, probe interferometer measurement of electron density, (E), 23:42234 (NP-17977)
diagnostics of hydrogen arc, ion temperature using Doppler effect, 25:9413(T) (SC-T-71-3001)
diagnostics of hydrogen arc, relaxation effects on spectroscopic temperature measurements, 23:6977 (IPP-3/77)
diagnostics of hydrogen arc, thermal Doppler measurements for ion temperature, 23:30525 (IPP-3/88)
diagnostics of hydrogen discharge, electron and ion energy, 21:11615
diagnostics of hydrogen discharge, far-uv spectra for electron temperature, (E), 23:16776 (CEA-R-3359)
diagnostics of hydrogen discharge, laser interferometer for electron density, 22:13436 (LRP-33/67)
diagnostics of hydrogen discharge, mass-spectrometric measurement of ion densities, 23:5396
diagnostics of hydrogen negative glow, electron, (E), 23:32356
diagnostics of hydrogen, at cyclotron resonance, probe technique for density and temperature, 22:5318
diagnostics of hydrogen, electron density and temperature, 22:52742 (NP-17568)
diagnostics of hydrogen, electron density and temperature, 21:2192 (TID-23318, pp 127-72)
diagnostics of hydrogen, energy level studies for, (T), 23:39449
diagnostics of hydrogen, for two-phase excitation at cyclotron frequency, 25:5087
diagnostics of hydrogen, in a magnetic well, (E), 22:26365
diagnostics of hydrogen, in reflex discharges in magnetic fields, (E), 22:11421
diagnostics of hydrogen, spectroscopic, 21:7208(R) (AD-638677)
diagnostics of hydrogen, spectroscopic, 22:9427 (TID-24201)
diagnostics of hydrogen, using fast particle beams, 21:737 (AD-634808)
diagnostics of hydrogen, using helium atomic beams, (E), 25:1182
diagnostics of hydrogen-containing, electron density from hydrogen intensity measurements, 23:42246
diagnostics of induction-coupled argon, excitation temperature, (E), 23:25305
diagnostics of inhomogeneous boundary layer, using microwaves, (E/T), 22:24272
diagnostics of inhomogeneous, light-scattering method for, 25:1186
diagnostics of inhomogeneous, using electromagnetic wave probes, 25:56145
diagnostics of inhomogeneous, using microwaves, 22:36895
diagnostics of ion—acoustic wave propagation in argon, electron beam, (E), 24:15288
diagnostics of ionospheric, analysis of satellite data on, 21:24979(R) (N-67-13726)
diagnostics of ionospheric, electron density, 21:700
diagnostics of ionospheric, electrostatic probe theory or, 21:10696 (NASA-CR-704)
diagnostics of ionospheric, steady-state and dynamic probe characteristics in, (E), 25:56012
diagnostics of ionospheric, study of resonances using a mutual-impedance probe in, (E/T), 21:31420
diagnostics of isotropic, using thin cylindrical antennas, (T), 24:1388
diagnostics of Jutphaas injection experiment, using microwaves, 21:18641 (NP-16588)
diagnostics of keV high-density deuterium, helium, and neon, 21:7278
diagnostics of laboratory, review of, 25:17140
diagnostics of Landau damping of surface waves resonator method for, in column, (E), 25:30491
diagnostics of large diameter theta-pinch, description of series interferometer for, 21:36446
diagnostics of laser produced air and deuterium—air, temperature measurement from gas breakdown in, (E), 22:41555
diagnostics of laser produced, using mass spectrometers, 25:40610
diagnostics of laser spark-produced, electron density, 21:23219
diagnostics of laser-focus, nanosecond axial schlieren photography, (E), 23:16775 (CEA-CONF-1204)
diagnostics of laser-heated carbon, temperature, (E), 23:44394
diagnostics of laser-induced, Langmuir probe performance for electron temperature, 21:736 (AD-631517)
diagnostics of laser-produced, 21:3833
diagnostics of laser-produced aluminum, linear and nonlinear properties of, (E), 24:10509
diagnostics of laser-produced aluminum, microwave, (E), 23:18605
diagnostics of laser-produced argon, ultrafast spectroscopic, (E), 23:20887 (CEA-CONF-1060)
diagnostics of laser-produced deuterium, temperature, (E/T), 23:12866 (CEA-CONF-1205)
diagnostics of laser-produced deuterium, temperature, (E), 23:36706
diagnostics of laser-produced helium afterglow, using lasers, 22:31798
diagnostics of laser-produced helium, spectroscopic, (E), 23:32354
diagnostics of laser-produced hydrogen, spectroscopic, 21:9543
diagnostics of laser-produced lithium, 22:34597
diagnostics of laser-produced lithium hydride, optical, (E), 23:23100
diagnostics of laser-produced lithium hydride, using lasers, (E), 23:42244
diagnostics of laser-produced lithium hydride, uv and visible spectra, 24:45234
diagnostics of laser-produced metal, 22:36904
diagnostics of laser-produced sparks, Stark broadening in, 24:21776
diagnostics of laser-produced streaming, microwave and Langmuir probe, (E), 24:37433(R) (ORO-3819-2)
diagnostics of laser-produced xenon, electron density, (E), 25:9485
diagnostics of laser-produced, density and temperature, 21:9542
diagnostics of laser-produced, density and temperature, 21:33471
diagnostics of laser-produced, electron density and temperature, 24:17890
diagnostics of laser-produced, Fabry—Perot interferometer for, 21:31402
diagnostics of laser-produced, from bremsstrahlung x-ray spectra, 24:35384
diagnostics of laser-produced, ion oscillations, 21:31403
diagnostics of laser-produced, ion temperature, 24:35382
diagnostics of laser-produced, ion temperature, (E/T), 23:34384 (AD-681904)
diagnostics of laser-produced, Langmuir probe and microwave, (E), 25:43342
diagnostics of laser-produced, Mach—Zehnder interferometry, 22:7266
diagnostics of laser-produced, microwave cavity, (E), 23:10620
diagnostics of laser-produced, plane electrostatic analyzer for, (E), 25:56137
diagnostics of laser-produced, probe method for, 25:30477 (NP-18765)
diagnostics of laser-produced, spectroscopic, 23:3459
diagnostics of laser-produced, temperature measurement using neutron detection technique, 21:37422
diagnostics of laser-produced, temperature, (E), 23:12765
diagnostics of laser-produced, two-wavelength interferometer analysis for, (E), 25:33221
diagnostics of laser-produced, use of laser light scattering for electron density measurements in, 22:41558
diagnostics of laser-produced, use of recombination continuum in temperature measurements, 24:35388
diagnostics of laser-produced, using electron beams, 25:40600
diagnostics of laser-produced, using holographic interferometry, 25:30487
diagnostics of laser-produced, using holographic method, (E), 23:51600 (CEA-CONF-1375)
diagnostics of laser-produced, using multi-layer targets, (E/T), 25:11870
diagnostics of laser-produced, x-ray temperature, 25:19701
diagnostics of layers of, using electromagnetic wave scattering, 21:11612
diagnostics of lithium arc, using emission spectra, 22:9289
diagnostics of lithium, in magnetic mirror compression experiment, 24:49104(R) (UCB-34-P-128-15)
diagnostics of lithium, microchemical analysis application to, 22:34602
diagnostics of lithium, using microchemical analysis, 23:1399
diagnostics of loss processes in discharge microwave equipment for, 21:31407
diagnostics of low-density argon, using cylindrical Langmuir probes, (E), 25:11873
diagnostics of low-density barium, optical, (E), 24:26162
diagnostics of low-density magneto-, comparison of methods for, 22:24263
diagnostics of low-density nonequilibrium hydrogen, steady-state composition from, 21:739 (NASA-TN-D-3457)
diagnostics of low-density nonequilibrium, using thermo anemometer—Langmuir probe, 24:17885
diagnostics of low-density, electric-probe method for relative density, 24:35387
diagnostics of low-density, electrostatic probe techniques for, 21:35142 (CONF-670104-Pt.2, pp 563-78)
diagnostics of low-density, Lecher wire microwave interferometers for electron density, 21:45478
diagnostics of low-density, microwave interferometer for, 24:23045
diagnostics of low-energy electron groups in hollow-cathode discharge, Langmuir-probe analysis method for, 24:15286
diagnostics of low-power MPD wind tunnel, electron, ion, and neutral-particle, 25:5105
diagnostics of low-pressure cesium discharge, Langmuir-probe measurement of electron energy distribution, (T), 25:9419
diagnostics of low-pressure discharge, Langmuir paradox in, (E/T), 23:18602
diagnostics of low-pressure discharges in longitudinal magnetic fields, (E/T), 25:1178
diagnostics of low-pressure magnetized, ion temperature, 25:40598
diagnostics of low-pressure mixtures of, using electromagnetic wave scattering, 25:52791(P)
diagnostics of low-pressure xenon, Langmuir probe for, 22:26367
diagnostics of low-temperature cesium, in flat diode, 21:31286
diagnostics of low-temperature cesium, probe techniques for, 22:13435 (FEI-20)
diagnostics of low-temperature discharge, density, 22:39049
diagnostics of low-temperature helium, electron temperature, (T), 25:19661
diagnostics of low-temperature, effect of resonance radiation on electron energy distribution, (T), 23:18603
diagnostics of low-temperature, electrostatic probe and electronic circuit for, 24:30320
diagnostics of low-temperature, spectroscopic, 21:39988(T) (AD-653557)
diagnostics of low-temperature, using rf conductivity measurements, 22:39047
diagnostics of magnetically compressed high-temperature, spectroscopic, (E/T), 24:10515
diagnostics of magnetized afterglow, microwave sampling radiometer for absorption and emission measurements in, 24:508

diagnostics of magnetized and time-varying, electron temperature, 22:48092
diagnostics of magnetized, collisional effects on diffusion electron current to cylindrical probe in, (T), 25:36098
diagnostics of magnetized, γf properties of electric probes for, 22:52747
diagnostics of magnetized, ion and atom temperature, (E/T), 25:58988
diagnostics of magnetized, magnetic-mirror probe method for anisotropy of electron temperature, 25:40608
diagnostics of magnetized, space potential measurement using cylindrical probes, 25:22493
diagnostics of magnetized, spherical resonance probes for, (E), 23:12771
diagnostics of magnetized, transfer impedance of hf quadrupole probe for, 24:26152
diagnostics of magneto-, by large-angle laser scattering, 21:27128 (ARL-67-0020)
diagnostics of magneto-, cavity resonance in, (T), 22:36823
diagnostics of magneto-, cylindrical probe theory for, 21:12721
diagnostics of magneto-, development of microwave transient response technique for, 25:35833(R) (ORO-3027-19)
diagnostics of magneto-, effects of electron drift velocity on probe, 22:34603
diagnostics of magneto-, electron properties of probe, (T), 22:29475
diagnostics of magneto-, electrostatic probe for electron density, 21:29206
diagnostics of magneto-, ion-sensitive probe for, 21:8646
diagnostics of magneto-, negative characteristics of cylindrical probe for, 21:14508
diagnostics of magneto-, research program on microwave transient response technique for, 24:37220(R) (ORO-3027-16)
diagnostics of magneto-, resonant frequency in cylindrical cavity resonators, (E/T), 24:51625
diagnostics of magneto-, theory for resonance probe, 21:7192
diagnostics of magneto-, theory of cylindrical impedance probe for, 21:5741
diagnostics of magneto-, using antennas, (T), 21:3827
diagnostics of mercury arc, using Langmuir probes, (E), 23:18598 (AD-673699)
diagnostics of mercury discharge, density, 21:31418
diagnostics of mercury discharge, microwave measurement of electron density, 22:22152
diagnostics of mercury discharge, using Langmuir probes, 24:35396
diagnostics of mercury, at 1,000 to 15,000°K and 10 torr and 50 atm, 23:6979
diagnostics of mercury, microwave measurement of electron density profile, 22:34617
diagnostics of mercury-discharge, using microwaves, (E), 25:25093
diagnostics of MHD, electrostatic probe theory for, 21:15018
diagnostics of MHD, review of basic studies on, 22:43974
diagnostics of microwave-excited, ion kinetics in, 23:8593
diagnostics of microwave-heated, in magnetic mirror traps, (E/T), 23:36653(T) (NP-tr-1789)
diagnostics of microwave-produced, electron density and temperature, (E), 24:21774
diagnostics of mirror-confined, bremsstrahlung spectra for electron distribution, 25:17135 (ORNL-TM-3302)
diagnostics of mirror-confined, pressure anisotropy, (E), 25:5085
diagnostics of mirror-confined, trochoidal E x B analyzer for hot electron, 23:51704 (CEA-CONF-1391)
diagnostics of molecular hydrogen discharges, ion density from Stark broadening, 25:3068
diagnostics of molecular hydrogen, spectroscopic, 22:13438 (NP-17214)
diagnostics of moving density-modulated, microwave scattering measurements for, 21:740
diagnostics of moving striations in argon, simultaneous measurement of electron density and temperature in, 24:37438
diagnostics of natural gas combustion, using double probes, 24:21767
diagnostics of negative helium glow, ion distribution, 21:744
diagnostics of neon discharge, probe, 22:52763
diagnostics of neon positive column, at average gas pressures, (E/T), 24:8442
diagnostics of neon, using transmission and reflection coefficients in trapezoidal distribution, (T), 23:23094
diagnostics of neutral, electron density, (T), 21:44044
diagnostics of nitrogen positive column, double Langmuir probe for, 25:5081 (N-70-32493)
diagnostics of nitrogen reflex arc, Langmuir probe, 24:28235 (AD-701669)
diagnostics of nitrogen, comparison of rotation temperature of N_2^+, (E), 25:30480
diagnostics of nitrogen, excitation and electron temperature, (E), 23:23079 (AD-675210)
diagnostics of nitrogen, using Stark broadening, (E), 23:36660
diagnostics of nonequilibrium boundary layer of, electron density and temperature, (E), 25:27685
diagnostics of nonequilibrium boundary layer, electron temperature and density, 25:14258
diagnostics of nonequilibrium nitrogen, spectroscopic, (T), 23:3455
diagnostics of nonequilibrium, laser and spectroscopic, (E), 23:25290(R) (AD-679177)
diagnostics of nonequilibrium, spectroscopic measurement of electron and atom temperature, (T), 23:42242
diagnostics of nonequilibrium, spectroscopic, (T), 25:3061 (CEA-CONF-1628)
diagnostics of nonlinear phenomena in, using hodographic method, 24:12797
diagnostics of nonthermal, electron density from relative ion intensities, 21:33375 (INR-789/XVIII/PP)
diagnostics of nonthermal, temperature, 21:13545
diagnostics of nonuniform cylindrical, using electromagnetic waves, 21:35137 (CEA-R-3133)
diagnostics of nonuniform, Boltzmann plots for spectral temperatures, (T), 23:16785
diagnostics of nonuniform, resonance probe characteristics in, (E), 23:42247
diagnostics of optically dense, multiparameter method for, (T), 21:25118
diagnostics of oscillating, electron energy distribution, (T), 24:10513
diagnostics of oscillations from shf-field-excited, probe, (E), 24:51617 (NP-18471)
diagnostics of oxygen positive column, electron density, (E), 24:17904
diagnostics of oxygen, electron temperature, 21:44029(R) (AD-651512)
diagnostics of partially ionized in electric fields, electron temperature, (T), 22:22135 (AE-313)
diagnostics of partially ionized, continuum theory of electrostatic probe, 23:12772
diagnostics of partially ionized, in electric fields, electron temperature, (T), 23:44396
diagnostics of partially ionized, two-wavelength holographic, (E), 24:10510
diagnostics of Penning discharge, using rf resonance probes, 21:15104 (CONF-660221-, pp 376-80)
diagnostics of Penning-discharge, electric properties from, 21:9612
diagnostics of perturbed, probe measurement of electron energy distribution, (E/T), 25:47508
diagnostics of pinch shift in Tuman device, using two atomic beams, 24:51630
diagnostics of pinch, spectroscopic measurement of impurities and ion temperature, (E), 23:18600 (LRP-39/68)
diagnostics of pinch, using uhf wave reflection, 22:44089 (NP-17570)
diagnostics of plane probe sheath in, rf, (E), 24:15284
diagnostics of plasma focus, using Schlieren and shadow pictures, (E), 23:51598 (CEA-CONF-1373)
diagnostics of positive column argon and neon, spectroscopic and probe, 21:25120
diagnostics of positive column discharge, electron density, 22:19958
diagnostics of positive column with moving striations in, Langmuir probe analysis for, 21:747
diagnostics of positive column, dust effects on probe, 25:47507
diagnostics of positive column, microwave, (E), 25:30483
diagnostics of positive column, radial density profile, (E), 21:9549
diagnostics of positive column, using microwaves, (E), 24:8445
diagnostics of positive-column, electron energy distribution, (E/T), 21:25110 (CEA-R-3165)
diagnostics of pulse discharge, electron density, 22:41568
diagnostics of pulsed high-density, in linear pinch, 22:1282 (LA-3770, Paper H5)
diagnostics of pulsed xenon discharge, interferometer, 24:17886
diagnostics of pulsed, laser techniques for, 21:13549
diagnostics of pulsed, phasometers for, 21:44035
diagnostics of pulsed, positive ion detectors for, 24:51620 (SC-RR-70-583)
diagnostics of quasi-isothermal hot, temperature from emission spectra, 25:22485
diagnostics of quiescent cesium, rf resonance probe for, 21:20923 (IPP-2/54)
diagnostics of quiescent cesium, rf resonance probe performance for, 21:35149
diagnostics of quiescent, probe noise in, 23:6984
diagnostics of quiescent, probe noise in, (E), 23:1376 (IPPJ-71)
diagnostics of radio-frequency, microwave, 22:24273
diagnostics of rapidly changing, electron temperature from ion-intensity ratio, (E), 25:33220
diagnostics of rare gas, at medium pressures, effect of photoeffect on probe, (E), 23:51618
diagnostics of rare gas, excitation temperature functions for, 25:9172
diagnostics of rare gas, in crossed electric and magnetic fields, (E), 22:39052
diagnostics of rare gas, review of light-spectrometer, mass-spectrometer, and microwave-cavity methods for, 24:21787
diagnostics of rare-gas, Langmuir probe and microwave, (E), 22:29473
diagnostics of rarefied using thermoanemometer—Langmuir probes, 24:26156
diagnostics of reactor-produced, microwave investigation of, (E), 21:16907
diagnostics of reentry, using flush-mounted electrostatic probes, 24:51619 (SC-RR-70-413-A)
diagnostics of reflex discharge, using lasers, 22:9188 (TID-24203, pp 37-43)
diagnostics of reionized decaying, ion density and temperature measurement, 21:2216
diagnostics of rf discharge, probes for current, 21:44047
diagnostics of rf-discharge, frequency analysis of probe current in, (E/T), 23:16783
diagnostics of rotating helium pinch, ion temperature, 24:40043 (LRP-40/70)
diagnostics of rotating mixtures, mass separation effects in, 25:14278 (NP-18643)
diagnostics of semi-infinite sharply bounded nonuniform, microwave, 24:35385
diagnostics of sheaths between Saha, and field-modified emitting electrodes, (T), 22:22170
diagnostics of shf discharge, electron density, 21:44041
diagnostics of shock produced, magnetic probes for, 22:13443
diagnostics of shock waves produced from injecting into magnetic funnels, (E), 24:47210
diagnostics of shock-heated argon, microwave measurement of temperature, 21:39992
diagnostics of shock-heated argon, using Langmuir probes, 22:31794
diagnostics of shock-heated, use of conical probes for, (E/T), 25:56144
diagnostics of shock-produced argon, electron density, 22:9287
diagnostics of shock-produced argon, microwave, 21:37425
diagnostics of shock-produced argon, spectroscopic, 25:9423
diagnostics of shock-produced xenon, spectroscopy and laser interferometry, 25:9422
diagnostics of shock-produced, electron density, 23:8630 (BMwF-FBK-68-29)
diagnostics of shock-produced, electron density and temperature, 22:9293
diagnostics of shock-produced, electron density measurements using lasers, 24:45226
diagnostics of shock-produced, infrared laser interferometry for electron density, 22:15515
diagnostics of shock-produced, Langmuir probe and microwave, 21:7187 (AD-638025)
diagnostics of shock-produced, microwave measurement of electron density and collision frequency, 21:20940
diagnostics of shock-produced, microwave reflection, (T), 23:5389
diagnostics of shock-produced, use of laser for, 22:13441
diagnostics of shock-produced, using microwave reflection probe, 21:37435
diagnostics of shock-produced, using polychromator techniques, (E), 23:16782
diagnostics of shock-produced, using Thomson scattering of laser light, 21:20936
diagnostics of shock-wave, electron density and temperature determination by laser light scattering, 22:7263
diagnostics of shock-wave-produced, 21:15124
diagnostics of shocks in discharges with longitudinal magnetic fields, (E), 25:36092 (UARAEE-101)
diagnostics of slab, density profile, (T), 23:36657
diagnostics of slightly ionized collision-dominated, analysis of ellipsoidal Langmuir probes for, 21:9553
diagnostics of space, satellite-borne data processing system for, 22:23376
diagnostics of space, satellite-borne mass-energy spectrometer for, 22:23377
diagnostics of space-related resonance phenomena of, (E/T), 25:49876 (N-71-22585)
diagnostics of stationary hydromagnetic shocks in discharge, using magnetic probes and lasers, 24:42659
diagnostics of stationary quiescent, theory of electrostatic probe for, 24:47212
diagnostics of striating neon discharge, energy distribution, 25:5077 (AD-710597)
diagnostics of striations in hydrogen discharge, microwave, 25:9425
diagnostics of striations in positive column, electron temperature, 22:7273
diagnostics of strong-current discharges with skin effect, using microwaves, 25:9428
diagnostics of surface wave damping in mercury, microwave, (E/T), 24:35392
diagnostics of surfaces of, using microwave scattering, 21:15114
diagnostics of tenuous, conductivity probe for, (E/T), 23:20897
diagnostics of thermal, electron density enhancement from metastable atoms in, 21:3829
diagnostics of thermal, spectra analysis for temperature, 21:3830
diagnostics of Theta Pinch Isar III, by laser forward scattering, (E), 22:44085 (IPP-1/78)
diagnostics of theta pinch, by laser forward scattering, (E), 22:41560
diagnostics of theta pinch, conductivity and temperature, 21:7199
diagnostics of theta pinch, density and temperature, 21:37430
diagnostics of theta pinch, temperature and density from laser scattering, 22:11423
diagnostics of theta pinch-hydrogen, density and temperature, 22:29469
diagnostics of theta-pinch deuterium, space-time resolved Mach—Zender interferometer for electron density, 22:1156 (LA-3770, Paper D2)
diagnostics of theta-pinch end loss, using laser interferometers, 22:1137 (LA-3770, Paper D3)
diagnostics of theta-pinch end loss, using lasers, 22:26368
diagnostics of theta-pinch helium, spectroscopic, 22:24266
diagnostics of theta-pinch using Mach—Zehnder interferometer, electron density, (E), 23:23078 (AD-672813)
diagnostics of theta-pinch, effect of slit dimension on ion energy distribution, 25:52784
diagnostics of theta-pinch, electron density and temperature from laser scattering, (E), 23:12787
diagnostics of theta-pinch, electron density and temperature measurement using laser scattering, 25:25099
diagnostics of theta-pinch, electron velocity distribution using lasers, 24:49116
diagnostics of theta-pinch, fractional-fringe holographic interferometry for, 21:35150
diagnostics of theta-pinch, spectral analysis for electron heating, 21:9540 (JUL-413-PP)
diagnostics of theta-pinch, using 90° laser scattering, 22:3015 (IPP-1/58)
diagnostics of theta-pinch, using Faraday rotation of far-infrared laser beam, (E), 24:21769
diagnostics of theta-pinch, using image-converter camera, 25:52789

diagnostics of theta-pinch, using infrared masers, 21:42029 (ARL-67-0062)
diagnostics of theta-pinch, using laser scattering, (E), 25:1175
diagnostics of theta-pinch, using laser scattering, (E), 23:14767
diagnostics of theta-pinch, using lasers, 22:39053
diagnostics of theta-pinch, using light scattering, 21:11610(R) (ORO-3393-2)
diagnostics of theta-pinch, using Mach—Zehnder interferometer with pulsed laser, (E), 23:12767
diagnostics of theta-pinch, using Mach—Zehnder interferometers with lasers, 22:46132
diagnostics of theta-pinch, using side-on interferometry at 10.6 μ, 25:52782 (IPP-1/117)
diagnostics of time-dependent, using electric probes, 24:30324
diagnostics of time-varying discharge, electron energy distribution, (E), 23:42248
diagnostics of time-varying, laser interferometer system for refractive index, (E), 25:49877
diagnostics of Tokamak-3, material balance, (E), 25:19657(T) (MATT-Trans-16)
diagnostics of toroidal discharge, hydrogen, 21:18648
diagnostics of toroidal-confined, conductivity measurements from Thomson scattering, 22:22140
diagnostics of toroidal-confined, Rogowski loop measurement of electron acceleration in, 21:39991
diagnostics of transient low-density, laser interferometer for, 23:10611
diagnostics of transient nonlinear processes in, apparatus for, 25:40604
diagnostics of transient, performance of pulsed laser interferometer for, 25:17137 (UCRL-50983)
diagnostics of transient, phase sensitive interferometer for electron density, 23:42249
diagnostics of transient, using microwave Fabry—Perot resonators, 24:6521
diagnostics of trapped particles in fusion devices, using echo phenomena, 25:9420
diagnostics of travelling-wave density-modulated column of, microwave determination, 21:741
diagnostics of Tuman-confined, by probing with fast argon and hydrogen atomic beams, (E), 23:51617
diagnostics of turbulence in collisionless shocks, using laser light scattering, (E), 24:42663
diagnostics of turbulence in, optical measurements of electrostatic, (E), 25:5083
diagnostics of turbulent arc, nonlinear corrections to spectroscopic temperature, 22:34587(R) (AD-665143)
diagnostics of turbulent boundary layer of, electron density, 22:5313
diagnostics of turbulent electric fields in discharge, using polarization of Stark profiles, (E), 25:43344
diagnostics of turbulent helium, optical measurement of fluctuation level, 24:40053
diagnostics of turbulent toroidal discharge, using microwave probe, 22:39043(T) (NP-tr-1676)
diagnostics of turbulent, continuum ion probe, 21:33380
diagnostics of turbulent, fringe HCN laser-interferometer for, (E), 25:38408
diagnostics of turbulent, in high-current toroidal discharges by shf probing, 22:46121(T) (MATT-Trans-61)
diagnostics of turbulent, Langmuir probe response for, (E/T), 24:47208
diagnostics of turbulent, method for, 22:39040 (N-68-11059)
diagnostics of turbulent, microwave cutoff measurements of density, 21:31419
diagnostics of turbulent, microwave performance for, (E), 23:10623
diagnostics of turbulent, microwave techniques for, 22:3026
diagnostics of turbulent, probe geometry effects on, (E), 25:58983
diagnostics of turbulent, radar interferometric, 23:5392
diagnostics of turbulent, response of free-molecule cylindrical Langmuir probes for (E/T), 24:6528
diagnostics of turbulent, use of magnetic spectrum analyzer for noise, (E/T), 25:40611
diagnostics of turbulent, using charged particle beams, 25:43339 (IYAF-7-70)
diagnostics of turbulent, using dual electric probes, (E/T), 25:49874 (KHFTI-70-71)
diagnostics of turbulent, using electromagnetic waves, (T), 21:15139
diagnostics of turbulent, using free molecular cylindrical Langmuir probes, (E/T), 23:34383 (AD-681838)
diagnostics of turbulent, using microwaves, 22:44098
diagnostics of turbulent, using radar interferometry, 24:1378
diagnostics of turbulent, using shf wave scattering, (T), 25:58996
diagnostics of two-component non-Maxwellian, using light scattering, (E/T), 24:51621
diagnostics of ultra-high-temperature air—nitrogen, spectroscopic, 22:46122 (N-68-24571)
diagnostics of underdense turbulent, using microwaves, 21:5248
diagnostics of unstable turbulent, using Stark effect in hf stochastic fields, (T), 21:46326
diagnostics of upper hybrid resonant-heated, electron density and temperature, 21:2213
diagnostics of uranium matrix in dc arcs, temperature, voltage, and electric field, 22:52749
diagnostics of uranium, spectroscopic, 25:59000
diagnostics of uranium, temperature and partial pressure, (E), 24:28271
diagnostics of uv-pre-ionized, density and temperature variations, (T), 24:51657 (IPP-1/106)
diagnostics of varying electron and gas temperature, equivalent excited-state temperature, (T), 24:1391
diagnostics of warm anisotropic, Green's function analysis of electric dipole radiation characteristics in, 24:12793
diagnostics of warm anisotropic, resonance cones in field pattern of short rf probe for, 25:14259
diagnostics of warm anisotropic, using resonance cones in field pattern of rf probes, 25:27683
diagnostics of warm, use of dielectric sphere for, 21:29203 (NASA-TN-D-4003)
diagnostics of weak-current arc discharges, using optical probing, 25:3065
diagnostics of weakly ionized helium, optical measurement of hf electric fields, 25:36094
diagnostics of weakly ionized, electron heat transfer to probe in, (E), 23:23092
diagnostics of weakly ionized, kinetic theory for near-surface electron temperature, (T), 23:27611 (N-69-15764)
diagnostics of weakly ionized, kinetic theory for near-surface electron temperature, 23:39455
diagnostics of weakly ionized, theory of continuum flush probes for, 25:40596
diagnostics of xenon discharge, electron density using laser interferometer, 21:25119
diagnostics of xenon pinch, interferometric, 25:30484
diagnostics of xenon pulsed-discharge, temperature, (E), 23:42243
diagnostics of xenon, methods for temperature, 25:14261
diagnostics of z-pinch, electron drift velocities from laser scattering, 25:14256
diagnostics of Z-pinch, laser-excited optical resonator for electron density, (E), 23:42238
diagnostics of Z-pinch, optical resonator for electron density, 24:23956
diagnostics of z-pinch, using Thomson and Rayleigh scattering, 23:42232 (IPP-1/95)
diagnostics of, absorption and emission coefficient calculations for temperature, 21:2202 (AD-641145)
diagnostics of, absorption of infrared radiation for temperature determination, 25:17145
diagnostics of, admittance of plane grid capacitor for nonlinear effects analysis, 25:14251
diagnostics of, allowance of spectral line overlap for optical thickness, 21:31411
diagnostics of, analysis of directional Langmuir probe for particle-flux, 24:51626
diagnostics of, aperture effects in parameter determination by scattering method, (T), 25:9415
diagnostics of, asymmetric broadening of Balmer line H/sub β/ in argon, 21:20935
diagnostics of, automatic data collection and processing at HBTX for, 25:30474 (EUR-4593, pp 557-66)
diagnostics of, automatically swept photoelectric Fabry—Perot interferometer for, 23:20043 (MATT-562)
diagnostics of, based on Stark broadening of Balmer lines, 21:44043
diagnostics of, boundary phenomena in MHD generators, 22:41397 (AD-668454)
diagnostics of, by electromagnetic interactions, (T), 22:48091
diagnostics of, by stimulated Mandelstam—Brillouin scattering, 25:38416
diagnostics of, calculation of composition and application to temperature determination in, 21:20934
diagnostics of, camera design for ultrafast exposure-times, 24:35390
diagnostics of, cavity modes for determination of electron density, 25:33241
diagnostics of, circuit for measuring electron energy distribution, 24:6523
diagnostics of, coaxial three-coil probe for electric conductivity and velocity, 24:47207
diagnostics of, collision-frequency measurement using rf probes, 24:17892
diagnostics of, conference on, 21:20912
diagnostics of, conference on, 21:29191(T) (NASA-TT-F-433)
diagnostics of, conference papers on, 24:8444
diagnostics of, conparison of microwave and electrostatic probes, 23:48886
diagnostics of, continuous electron density, 22:52753
diagnostics of, continuum theory of slender electrostatic probes for, 25:33232
diagnostics of, continuum theory of spherical electrostatic probes for, 25:17139
diagnostics of, corpuscular method for streaming particles, 25:30485
diagnostics of, correlation measurements for, 25:11866 (EUR-CEA-FC-570)
diagnostics of, correlation techniques for, 25:19664
diagnostics of, cross section measurements in, 22:38809
diagnostics of, cylindrical probe analysis for, 21:5249
diagnostics of, density and temperature from spectroscopic, 22:9282
diagnostics of, density measurements with energetic beams, 21:42027(R) (AD-647835)
diagnostics of, design and performance of 5-kHz to 25-MHz spectral analyzer for, 21:34503 (CEA-R-3216)
diagnostics of, design and performance of galvanometric probes for, (E), 24:26155
diagnostics of, design and performance of plasmascope for, 23:36662
diagnostics of, design of adjustable Langmuir probes for electron temperature, 25:46654
diagnostics of, design of low-energy positron beam for, 25:37551
diagnostics of, design of microwave circular polarizer for, 24:49199
diagnostics of, design of pulsed laser holographic camera for, 24:14340 (CEA-CONF-1459)
diagnostics of, design of scanning analyzer for, 24:45230(P)
diagnostics of, design of uhf correlator for, 24:44346 (EUR-CEA-FC-547)
diagnostics of, development of ceramic window for microwave, 21:45475
diagnostics of, dielectric waveguide for, 21:20939
diagnostics of, differential charged-particle energy analyzer measurements of electron temperature, 25:33227
diagnostics of, differential electrostatic analyzer for electron temperature, 25:7373
diagnostics of, diffusion theory for spherical Langmuir probe, (T), 23:30527
diagnostics of, distortion of probe characteristics in, 23:1392
diagnostics of, double microfield probe for, (E), 25:58990
diagnostics of, double spherical electrostatic probe continuum theory for, 21:33377
diagnostics of, double-probe method with stepwise high-frequency pulsed voltage, 21:42038
diagnostics of, effects of magnetic field on performance of resonance probes and rf impedance probes in, 21:37426
diagnostics of, effects of refraction and absorption on antenna coupling for, 22:3025
diagnostics of, effects on nonthermal noise sources on microwave, 21:31406
diagnostics of, electro-optical converter for, 24:28243
diagnostics of, electro-optical shutter for photography for, 21:37419 (NP-16711)
diagnostics of, electro-optical techniques for, 21:35138 (CEA-R-3237)
diagnostics of, electron beam probing techniques for, 21:11633(R) (SU-IPR-124)
diagnostics of, electron decay in diffusion and recombination controlled afterglow, 22:39041 (N-68-17892)
diagnostics of, electron density, 21:745
diagnostics of, electron density measurements using gas lasers in, 23:39446(T) (LA-tr-69-12)
diagnostics of, electron density measurements using gas lasers in, 23:1381
diagnostics of, electron gun for determining, 21:2211
diagnostics of, electron temperature and density from spectroscopic, 21:29205
diagnostics of, electron temperature and recombination coefficients from spectroscopic, (E/T), 25:58993
diagnostics of, electron velocity distribution, (T), 23:30531
diagnostics of, electrostatic separation probe for electron velocity distribution function, 21:35143 (CONF-670104-Pt.2, pp 579-87)
diagnostics of, electrostatic, probe theory for, 21:13546
diagnostics of, energy density and conductivity at 3 to 120 kbar, 21:11606 (N-66-38710)
diagnostics of, energy—mass analyzer for, (E), 25:3063
diagnostics of, exact fields of pulsed dipoles in homogeneous cold, (T), 24:35383
diagnostics of, fabrication of probes for, 21:31396 (CONF-661016, pp 355-8)
diagnostics of, field strength measurement from Stark effect, (E), 23:20890(T) (UCRL-Trans-1388)
diagnostics of, floating potential of emitting probes for, 24:35394
diagnostics of, focused Fabry—Perot resonator for density, (E), 23:12782
diagnostics of, focused Fabry—Perot resonator for density, 23:42241
diagnostics of, focused microwave systems for, 21:44034 (NP-17039)
diagnostics of, generalization of symmetric three-probe method for, 22:9284
diagnostics of, hf electromagnetic field, 22:46120 (IPP-4/51)
diagnostics of, holographic camera for, (E), 23:32346 (CEA-CONF-1276)
diagnostics of, holographic interferometry with double-flash laser for, (E), 23:16787
diagnostics of, hot Langmuir probe properties for, 21:44039
diagnostics of, in MHD conversion device, (E), 24:39909 (RT/FI-(69)48)
diagnostics of, instrumentation and technical developments for, 21:11593 (UCRL-50002-66-1, pp 5-59)
diagnostics of, interferometric method for electron density distribution, 25:7372
diagnostics of, ion beam probing of space potential, (E), 24:35393
diagnostics of, ion current to plane probe in, (T), 25:14249
diagnostics of, ion resonance observation by rf probe in, 21:2209
diagnostics of, ion resonance probe for density, 21:33381
diagnostics of, ion temperature, 23:8589
diagnostics of, Langmuir probe measurement of drift-wave potential oscillations in, (T), 25:27809
diagnostics of, Langmuir probe use for, 21:10700
diagnostics of, laser interferometer for electron density, 22:11414 (LA-3730)
diagnostics of, laser phasography for, 21:18654
diagnostics of, laser phasography method for, 21:46319
diagnostics of, liquid crystal film for image conversion in carbon dioxide laser interferometric, 24:14374
diagnostics of, low impedance pulse generator for, 21:26289
diagnostics of, LTE temperatures below 10,000°K, 25:11876
diagnostics of, magnetic field measurement using scattered light, (E), 24:15289
diagnostics of, magnetic field measurements using scattered light, 22:1154 (IPP-1/69)
diagnostics of, magnetic probe characteristics for, 23:32353
diagnostics of, magnetic probe for, 21:748
diagnostics of, magnetic probe induction theory for, 25:17134 (AD-713104)
diagnostics of, measurement objectives for characterization of, (E), 25:38403
diagnostics of, method for density, 21:33386(P)
diagnostics of, methods for, 21:46318
diagnostics of, methods for, 22:1171
diagnostics of, methods for, 22:19827

diagnostics of, microwave electron density probe for, (E), 22:26369
diagnostics of, microwave interferometer for density, 21:46316 (JUL-473-PP)
diagnostics of, microwave interferometer for density, 25:42183(T) (CTO-756)
diagnostics of, microwave methods for, 24:35483(T) (AEC-tr-7146)
diagnostics of, microwave receiver for, 21:9550
diagnostics of, microwave reflection technique for electron density, 22:34614
diagnostics of, microwave system for, 25:43345(P)
diagnostics of, microwave techniques for, 22:1170
diagnostics of, microwave techniques for, (E), 23:18604
diagnostics of, modification of ion sheath by electron-emitting probe, (T), 24:35398
diagnostics of, modulation pyrometer for temperature, 21:20930
diagnostics of, multichannel spectral analyzer for, 21:25112 (LRP-30/67)
diagnostics of, multichannel system for determination of time-varying spectral line profiles, 25:43343
diagnostics of, multigrid energy and mass analyzer for, 23:32352
diagnostics of, nonisothermal theory of electrostatic probe for, (T), 25:52790
diagnostics of, on-line data acquisition system for, 25:7363 (CLM-R-104)
diagnostics of, optical interferometric techniques for, 21:15105 (NP-16554)
diagnostics of, parallel-plate capacitor impedance calculations for, 25:3100
diagnostics of, performance of 35-GHz microwave probe and 150 GHz microwave interferometry for, (E), 23:12766
diagnostics of, performance of cylindrical Langmuir probes for, (E), 25:14242 (AD-711095)
diagnostics of, performance of probes for energy spectra, (E), 23:25291 (BMwF-FBK-69-3, pp 1.1-15)
diagnostics of, performance of quadrupole probes for, 24:37353
diagnostics of, performance of rf and Langmuir probes for, 21:37431
diagnostics of, performance of spectroscopic temperature, 21:7189 (NASA-TN-D-3737)
diagnostics of, performance of spherical Langmuir probe for, (T), 25:1171 (AD-709185)
diagnostics of, performance of surface waves for determining electron density, 21:753
diagnostics of, performance of toroidal resonator for, 22:9288
diagnostics of, periodic potential probe for ion, 24:8446
diagnostics of, perturbation of electron-energy distribution by probes in, (T), 21:3834
diagnostics of, photoelectronic attachment for temperature measurement in, 22:36891
diagnostics of, piezoelectric probe for measuring pressure pulses, 24:21762 (JUL-607-PP)
diagnostics of, potassium beam probe for electron density, 21:23162 (CLM-R-68)
diagnostics of, probe measurements of electron energy distributions (E), 24:45224
diagnostics of, probe positioning mechanisms for, 24:24046 (LA-4250, pp CII.7.1-4)
diagnostics of, procedures for use of microwave reflection probe for density, 24:35389
diagnostics of, properties of circular antenna focused in Fresnel zone for, 22:216
diagnostics of, quasi-optic imaging resonator for electron density, 21:42037
diagnostics of, radiation temperature measurements as function of magnetic field, 21:37420
diagnostics of, radio frequency method for, (T), 22:24260
diagnostics of, rapid scan spectrometer for, 23:1385
diagnostics of, rapid-time and space-resolved measurement of luminous density distribution, 22:48083 (JUL-537-PP)
diagnostics of, reduction by electron—neutral atom collisions of shot noise to probe in, 22:44096
diagnostics of, research on, 22:22143
diagnostics of, research on methods for, 21:42029 (ARL-67-0062)
diagnostics of, resonances of rf probe in, 21:2208
diagnostics of, response of Langmuir probe in strong magnetic fields, (E), 25:40597
diagnostics of, review of high-speed methods for, 22:36899
diagnostics of, review of spectroscopic, (E), 23:23088
diagnostics of, review of techniques for, 25:3069
diagnostics of, rf impedance method for electron density and collision frequency, (E), 25:1184
diagnostics of, schlieren method for measuring density gradients, (E/T), 25:3067
diagnostics of, sensitive microwave interferometer for, 24:19874
diagnostics of, sensitive rotating-vane electrometer for potential, 25:22487
diagnostics of, slide rule for parameter calculation for, 24:6519
diagnostics of, space-charge effects on electrostatic analyzers, 25:19660
diagnostics of, spectral techniques for helium-like, 22:19955
diagnostics of, spectral width of oscillations in, 24:30318
diagnostics of, spectrophotometer development for, 21:27131 (TID-23760, pp 123-36)
diagnostics of, spectroscopic, 23:1373 (AD-671494)
diagnostics of, spectroscopic measurement of ion temperature, (E/T), 22:46123 (TID-24666, pp 85-91)
diagnostics of, spectroscopic method for electron temperature, 21:15119
diagnostics of, spectroscopic methods for temperature measurement, review, 22:13448
diagnostics of, spectroscopic technique for electric field measurement, 25:17136 (UCRL-50002-70, pp 5.1-15)
diagnostics of, spectroscopic techniques for, 21:29211
diagnostics of, spectroscopic, (T), 22:11415
diagnostics of, Stark measurements of hf electric field, 22:11419
diagnostics of, statistical processing of spectral line contours for, 22:52751
diagnostics of, summaries of conference papers on methods for, 22:7268
diagnostics of, techniques for, 21:11605 (MIT-1842-36)
diagnostics of, temperature determination from continuum radiation from nitrogen and oxygen, 21:751
diagnostics of, temperature determination from spectral shift and broadening, 22:3021
diagnostics of, temperature determination from spectral intensity ratios, 22:52765(P)
diagnostics of, theory of hot spherical probe for, 21:5251
diagnostics of, theory of resonance probe for electron density, 21:25124
diagnostics of, theory of spectroscopic, 21:11608 (NP-16443)
diagnostics of, thermocouple for temperature, 21:39986(T) (AD-643375)
diagnostics of, time and spatially resolved spectra of exploding copper wire, (E/T), 25:38409
diagnostics of, time-resolved measurements of electron energy distribution, 24:51622
diagnostics of, transient ion sheath effects on probe admittance, 25:22497
diagnostics of, translation of book on high-speed methods for, 21:13544(T) (JPRS-39657)
diagnostics of, twin-probe method for potential measurements, 21:7195
diagnostics of, two-channel Fabry—Perot interferometer for Doppler temperature, 21:33383
diagnostics of, ultra-fast laser holography for, (E), 23:10624
diagnostics of, ultrafast double-converter spectrometer for, 21:4689 (NP-16394)
diagnostics of, use as impedance element in Fabry—Perot microwave resonator, 22:41547 (TID-24566)
diagnostics of, use of charged particle beams for, (T), 23:23084 (N-68-20940)
diagnostics of, use of electroacoustic resonances for, 21:25133(R) (SRRC-CR-66-48)
diagnostics of, use of high-frequency Stark effect in, 25:3062
diagnostics of, use of Langmuir probes for low-density, (T), 22:7269
diagnostics of, use of lasers for, (E), 23:46490
diagnostics of, using circular polarization from electrons in, 25:17141(P)
diagnostics of, using electron absorption of electrostatic waves, (T), 22:36898
diagnostics of, using electron cyclotron harmonic wave propagation, (E/T), 25:17143
diagnostics of, using ion sound waves, 21:35148 (ORNL-4089)
diagnostics of, using microwave refraction techniques, 21:18649
diagnostics of, using multipass laser interferometry, 25:40603
diagnostics of, using optical Mach—Zehnder and holographic interferometry, (E), 25:3071
diagnostics of, using particle-loss measurements and beam interactions, 25:58994
diagnostics of, using radial waveguides, 22:5323
diagnostics of, using remote scanning spectrometers, 25:52783
diagnostics of, using ultrarapid photometric camera, 25:56132 (CEA-R-4079)
diagnostics of, velocity effects on electron density in, (T), 21:2233
diagnostics of, viscosity measurement at atmospheric pressure, 25:14260
diagnostics of, waveguide propagation constants for, 21:5256
diagnostics or arc, spectra for eleccron temperature, 21:9551
diagnostics using 337-μm maser interferometer, electron density, (E), 23:25304
diagnostics using 90° laser scattering, ion temperature, 23:51599 (CEA-CONF-1374)
diagnostics using 90-degree laser-beam scattering, (E), 23:34392
diagnostics using absorption measurements of continuum x radiation from, electron temperature, 22:34589 (CLM-R-81)
diagnostics using acoustic waves, (E), 23:51616
diagnostics using admittance probe methods, electron temperature, 22:48096
diagnostics using argon laser with Schlieren photography, (E), 23:18608
diagnostics using atomic beams, collective effects from, 23:1374 (AD-671838)
diagnostics using automatic recording Fabry—Perot interferometers, 23:1384
diagnostics using beat frequencies in ring laser, electron density, (T), 24:23952
diagnostics using bremsstrahlung spectra, electron distribution function, (T), 23:5390
diagnostics using calorimetric, gas-sampling probe, enthalpy profiles from, 25:14263
diagnostics using capacitor systems, quasi-static approximate value of resonance of, 22:52760
diagnostics using capacitors in magnetic fields, 21:9545
diagnostics using carbon dioxide laser interferometers, electron density, 23:1393
diagnostics using carbon dioxide lasers, 25:40606
diagnostics using carbon dioxide lasers, density, (E), 22:48085
diagnostics using carbon dioxide lasers, in TP—D machine, (E), 25:52792
diagnostics using charged particle beams, 23:1400
diagnostics using charged-particle beams, (T), 23:12783
diagnostics using circularly polarized microwaves, (E/T), 24:30319
diagnostics using coaxial three-coil conductivity—velocity probe, boundary corrections for, (T), 23:27609 (N-69-15308)
diagnostics using coefficients of transmission and complex reflection for dielectric films, (T), 23:20895
diagnostics using continuous cross modulation of microwaves, helium, 23:1395
diagnostics using continuum radiation from oxygen and nitrogen, temperature, 21:5253
diagnostics using continuum x radiation from, electron temperature, (E/T), 23:34382 (AD-681728)
diagnostics using continuum x-ray spectra, electron temperature, 21:25116 (NRL-6541)
diagnostics using continuum x-ray spectra, electron temperature, (E/T), 23:12764 (NRL-6738)
diagnostics using cooled probes, performance for, (E), 24:15279
diagnostics using cooled spherical electrostatic probes, continuum theory of, (T), 23:18607
diagnostics using cylindrical Langmuir probes, response in transition regime, (E/T), 25:56136
diagnostics using cylindrical Langmuir probes, voltage—current characteristics in, 25:58999
diagnostics using cylindrical microwave cavities, electron density, (E), 25:14262
diagnostics using cylindrical probe, effect of magnetic field and collisions on, (T), 23:36658
diagnostics using cylindrical probe, saturation electron current in magnetic field calculation in, 22:41557
diagnostics using cylindrical probes at medium pressures, density, 25:30494
diagnostics using cylindrical probes in weak magnetic fields, ion current collection in, (T), 24:12794
diagnostics using cylindrical probes, ion current flow in, (T), 24:40049
diagnostics using cylindrical probes, theory for, 24:37442
diagnostics using cylindrical TM$_{010}$ microwave cavity, electron density, (E/T), 23:3463
diagnostics using dielectric and double resonance probes, performance for density, 21:7191
diagnostics using differential energy analyzer, electron temperature, 24:15277 (NP-18115)
diagnostics using direct display system, electron energy distribution, (E), 25:52787
diagnostics using directional twin probe, current measurements in, 22:41577
diagnostics using dispersion-corrected three-wavelength laser heterodyne, density, (E), 23:10617
diagnostics using Doppler broadening of spectral emission lines, review, 25:11875
diagnostics using Doppler broadening of spectral lines, velocity field, 24:40041 (AD-705155)
diagnostics using Doppler effect at electron cyclotron frequency, (E), 25:58997
diagnostics using Doppler-broadened spectroscopy, temperature, 22:26349(R) (IPPCZ-72)
diagnostics using Doppler-shifted scattered radiation, 24:3307 (N-69-36939)
diagnostics using double electric probes, in strong magnetic fields, (E), 23:34386(T) (AD-683090)
diagnostics using double nonemitting probes, electron temperature, (E/T), 24:17888
diagnostics using double probes, automatic recording and analysis of, (E), 23:14764
diagnostics using double probes, density, (E/T), 23:23093
diagnostics using double probes, effect of electron and ion drifts on, (T), 25:58981
diagnostics using double probes, electric conductivity, (E), 23:51611
diagnostics using double probes, electric field, 25:25089
diagnostics using drift mass spectrometers, (E), 24:3304(T) (AEC-tr-7101)
diagnostics using eight channel polychromator, density, 22:48095
diagnostics using electric probes, effects of electron attachment on, (T), 23:14769
diagnostics using electric probes, effects of secondary electrons on, 22:24264
diagnostics using electric probes, sheath kinetics for varying potentials, 24:40048
diagnostics using electric probes, theory for, 24:40046
diagnostics using electromagnetic phase changes, density, 22:46130
diagnostics using electromagnetic surface-wave probe method, (T), 25:49880
diagnostics using electromagnetic wave reflection coefficient measurements, 21:9548
diagnostics using electromagnetic wave scattering, detection limits for, 25:36101
diagnostics using electromagnetic waves in extraordinary modes, density profile, (T), 24:42662
diagnostics using electromagnetic waves, density and temperature, (T), 24:3319
diagnostics using electromagnetic waves, electron density and collision frequency, 22:41552
diagnostics using electromagnetic waves, model for, (T), 21:15120
diagnostics using electron beams, electric field, 21:3897(R) (SU-IPR-106)
diagnostics using electron beams, performance of, 21:9541 (UTIAS-120)
diagnostics using electron beams, potential distribution, 25:36093
diagnostics using electron temperature probes, effect of electron heating on, (T), 23:44400
diagnostics using electron-beam echo method, 24:26154
diagnostics using electrostatic cylindrical probes, probe properties in, 22:34605
diagnostics using electrostatic probes in magnetic fields, (T), 23:1396
diagnostics using electrostatic probes in shock tubes, 21:27136
diagnostics using electrostatic probes, (T), 21:15113
diagnostics using electrostatic probes, current—voltage characteristics of, 24:23960

diagnostics using electrostatic probes, inverse problem in, 24:45233
diagnostics using electrostatic probes, potential, (E), 25:58992
diagnostics using electrostatic probes, theory for, 21:7198
diagnostics using electrostatic probes, theory for, 21:7193
diagnostics using electrostatic probes, theory for, 21:17921
diagnostics using electrostatic probes, theory for use in strong magnetic fields, 22:52739 (AD-672273)
diagnostics using electrostatic probes, time-dependent theory of, 24:15278
diagnostics using emissive probe, potential, (E), 23:51603 (CEA-CONF-1394)
diagnostics using emissive probes, potential, (E), 25:25087(T) (LA-4431-tr)
diagnostics using energy level population analysis, (T), 23:42231 (INR-1027)
diagnostics using external rf probes, effect of glass wall on conductivity, (T), 25:30527
diagnostics using Fabry—Perot interferometers, electron density and temperature, (E), 24:12787 (CEA-R-3748)
diagnostics using Faraday rotation of laser radiation, magnetic field, (E), 23:51608
diagnostics using Faraday rotation, magnetic field, (E), 23:46455(T) (NP-tr-1835)
diagnostics using feedback oscillators, electron density, 23:1383
diagnostics using feedback stabilization, (E/T), 25:27769
diagnostics using flat probes, current solutions for, (T), 23:44401
diagnostics using floating double probe, electron temperature measurements in, 22:41556
diagnostics using floating double probe, electron temperature, 22:39051
diagnostics using floating probe, equations for probe current and potential in, 23:14754
diagnostics using flush electrostatic probes, edge effects in, (T), 23:23086
diagnostics using focused conductivity method, limits for using, 22:34600
diagnostics using fractional fringe HCN laser interferometers, 24:42657 (ORNL-TM-3092)
diagnostics using gas lasers, electron density, 22:9283
diagnostics using gas lasers, refractive index, 24:26149 (AD-697997)
diagnostics using grid probes, ion temperature, 22:48093
diagnostics using gridded electrostatic analyzers, time resolution of potential, (E), 25:25098
diagnostics using grids, multiple pseudowave excitation in, (E/T), 23:42235 (ORNL-TM-2656)
diagnostics using Hall current effect, 22:34618
diagnostics using helical coils, electron density and collision frequency, 22:3032
diagnostics using helium—neon laser interferometers, (E), 23:23080 (IPP-1/88)
diagnostics using hf radio waves, (E), 25:14248
diagnostics using highly negative Langmuir probes, kinetic theory for, 22:22136 (MATT-563)
diagnostics using holographic techniques with two wavelengths, 24:42660
diagnostics using holographic techniques, review of, 23:51604(T) (JPRS-46949, pp 1-22)
diagnostics using holography, review of, 22:41545(T) (LA-tr-68-23)
diagnostics using holography, review of, 22:41546(T) (NP-tr-1679)
diagnostics using holography, review of, 22:52741 (LA-3968)
diagnostics using holography, review of, 23:5387
diagnostics using hot diffusion probes, theory for, 22:44109
diagnostics using impedance bridges, rf, 22:19948 (SC-RR-68-30)
diagnostics using improved Mach—Zehnder interferometer, electron density, (E), 23:23099
diagnostics using incoherent scattering of millimeter waves, electron temperature, (T), 24:23957
diagnostics using increased-sensitivity holographic techniques, 24:26167
diagnostics using infrared lasers, (E/T), 24:5155 (IPP-3/98)
diagnostics using interference filters, microwave radiation, 24:49121
diagnostics using interferometers, far infrared, 21:29204 (TID-23827, pp 71-134)
diagnostics using ion energy analysis and laser interferometers, (E), 23:34400 (ORNL-4401, pp 113-44)
diagnostics using ion—acoustic wave propagation, drift velocity, 24:47216
diagnostics using Langmuir probes and microwaves, in Q-devices, (E), 23:14762
diagnostics using Langmuir probes in magnetic fields, density, 25:1172 (EUR-CEA-FC-540)
diagnostics using Langmuir probes, alternating voltage effects on potential changes in, 21:46325
diagnostics using Langmuir probes, comparison with collisionless probe theory, 24:28242
diagnostics using Langmuir probes, distortion properties of, 23:8590
diagnostics using Langmuir probes, effects of collisions on, 25:56135
diagnostics using Langmuir probes, effects of fluctuations on electron density, 22:3022
diagnostics using Langmuir probes, effects of surface conditions on, (E), 24:28241
diagnostics using Langmuir probes, electron distribution functions for, (E), 24:1377
diagnostics using Langmuir probes, electron energy distribution, (E), 25:14246
diagnostics using Langmuir probes, in strong magnetic fields, (T), 24:10512
diagnostics using Langmuir probes, ion current extrapolation for, (T), 22:36900
diagnostics using Langmuir probes, ion current measurement for electron density, 22:34615
diagnostics using Langmuir probes, ion current response to ion—atom collisions, (E), 25:43340 (N-71-17594)
diagnostics using Langmuir probes, microwave nonlinear properties of, (E/T), 24:6522
diagnostics using Langmuir probes, paired comparison tests for capacitive and floating, 25:33222
diagnostics using Langmuir probes, plasma wave effects on, (T), 24:8438
diagnostics using Langmuir probes, relation of ion density to ion current, (T), 23:12786
diagnostics using Langmuir probes, review of, 23:3450 (IPPJ,DT-9)
diagnostics using Langmuir probes, rf response in, (T), 23:42240
diagnostics using Langmuir probes, wing-slope techniques for analyzing performance of, 21:29218
diagnostics using laser beam absorption, electron temperature, 25:47506
diagnostics using laser beam scattering, 21:5261
diagnostics using laser beam scattering, electron density and temperature, 23:10616
diagnostics using laser beams, at atmospheric pressure, 23:12777
diagnostics using laser beams, electron and ion temperature, 21:3821
diagnostics using laser heterodyne, electron density from, 21:3831
diagnostics using laser interferometer at 337-μm wavelength, electron density, 23:5388
diagnostics using laser interferometers employing phase modulation, (E), 23:36651 (FTI-165)
diagnostics using laser interferometers, density, (E), 24:8436(T) (AEC-tr-7114)
diagnostics using laser interferometers, electron density, (E), 23:51613
diagnostics using laser interferometers, electron density, 23:1375 (CEA-R-3461)
diagnostics using laser interferometers, electron density, (E), 23:51612
diagnostics using laser interferometers, electron density measurement limits in, 25:3072
diagnostics using laser interferometers, in presence of transverse density gradients, (E), 24:12790
diagnostics using laser interferometers, interference calculations for, 24:30316
diagnostics using laser light scattering, magnetic field, (E), 25:1183
diagnostics using laser light scattering, research on, 22:22138 (TID-24331, pp 217-30)
diagnostics using laser light sources, 24:47201(T) (AEC-tr-7166)
diagnostics using laser phasography, 21:7186 (AD-633703)
diagnostics using laser radiation, 24:26163
diagnostics using laser scattering and interferometry measurements, 25:14255
diagnostics using laser scattering, calibration of apparatus for, 23:6976 (IPP-1/84)
diagnostics using laser scattering, computational method for Thomson, (T), 25:11865 (CEA-R-4058)
diagnostics using laser scattering, effects of aperture on spectra, (E/T), 25:1181
diagnostics using laser scattering, electron density, (E), 25:9409(T) (CTO-733)
diagnostics using laser scattering, electron energy effects on, (E/T), 23:48881
diagnostics using laser scattering, electron thermalization, 22:3030
diagnostics using laser scattering, temperature, density, and correlation spectrum, 25:5086
diagnostics using laser-beam scattering, research on, 25:14241 (AD-710718)
diagnostics using lasers, bibliography on, 23:30526 (STI/PUB-21/35)
diagnostics using lasers, density, 22:46131
diagnostics using lasers, density, (E), 25:3066
diagnostics using lasers, electron density, 21:13542 (AGARD-CP-8(Vol.2), pp 517-27)
diagnostics using lasers, electron density, 21:25117
diagnostics using lasers, electron density, 23:18609
diagnostics using lasers, electron density, (E), 23:12779
diagnostics using lasers, methods for, 22:17630 (CEA-R-3125)
diagnostics using lasers, properties of, 21:13543 (AGARD-CP-8(Vol.2), pp 529-72)
diagnostics using lasers, review of, 22:34611
diagnostics using lasers, review of, 24:40044
diagnostics using lasers, survey of methods for, 24:28237(T) (CTO-635)
diagnostics using lasers, temperature, density, and correlation spectrum, (E/T), 23:46456 (UCRL-50699)
diagnostics using lasers, theory of, 24:3308(T) (NP-tr-1857)
diagnostics using lasers, velocity distribution, 21:18636 (ARL-66-0234)
diagnostics using light scattering from magnetic fluctuations, 25:30490
diagnostics using light scattering spectra from, relativistic corrections for, 23:1386
diagnostics using light scattering, (E/T), 25:27680
diagnostics using light scattering, drift instabilities from, (T), 21:5245 (IPP-1/48)
diagnostics using light scattering, electronic computer calculations for, (E/T), 25:33233
diagnostics using light scattering, research on, 24:10506(R) (ORO-3393-7)
diagnostics using light scattering, research on, 25:22482(R) (ORO-3393-5)
diagnostics using light scattering, research on, (E), 23:10607(R) (TID-24891)
diagnostics using light scattering, review of, 22:3035
diagnostics using light scattering, techniques for, 22:13439(R) (ORO-3393-3)
diagnostics using loaded waveguides, 22:50141
diagnostics using m = 1 rf magnetic fields, apparatus development for, 21:39972 (TID-23971, pp 123-212)
diagnostics using medium dispersion optical spectrographic and source monitoring equipment, 22:44094
diagnostics using microwave and probe methods, comparison of, 21:2207
diagnostics using microwave cavities, effect of lossy dielectrics and plasma shape on, 21:27129 (D-1-82-0602)
diagnostics using microwave cavities, perturbations in, (E), 23:10619
diagnostics using microwave cavities, research on, (E/T), 25:45493(R) (COO-1695-34)
diagnostics using microwave damping and cutoff, 21:18637 (FTI-211/R-065)
diagnostics using microwave dragging, drift velocity and Lorentz polarization, 21:37417 (IPP-3/55)
diagnostics using microwave Fabry—Perot resonator, 22:34610
diagnostics using microwave Fabry—Perot resonator, 22:39046
diagnostics using microwave interferometers, 21:18638 (FTI-212/R-066)
diagnostics using microwave interferometers, effects of multiple reflections on accuracy of, 22:19953
diagnostics using microwave interferometry, collision frequency, 22:19947 (NP-17340)
diagnostics using microwave interferometry, effect of multiple reflections on electron density, 22:3018 (IPPCZ-70)
diagnostics using microwave interferometry, effect of refraction on electron density measurements, (T), 24:3315
diagnostics using microwave interferometry, errors in, 22:48089
diagnostics using microwave reflection, methods for, 25:58995
diagnostics using microwave refraction, 21:18639 (FTI-213/R-067)
diagnostics using microwave refraction technique, (E), 22:11420
diagnostics using microwave refraction techniques, 22:11418
diagnostics using microwave resonant cavities, density, 23:1379 (N-68-28007)
diagnostics using microwave resonant cavities, electron density, 22:52762
diagnostics using microwave resonant cavities, profile, 22:52761
diagnostics using microwave resonators, effect of plasma access holes on, 24:26164
diagnostics using microwave scattering techniques, design of linear polarization diplexer operating at 34 GHz for, 23:31584
diagnostics using microwave scattering, (E/T), 25:27679
diagnostics using microwave scattering, in rectangular waveguides, 22:34604
diagnostics using microwave techniques, 22:52748
diagnostics using microwave TM_{010} cavities, electron density, (E), 24:42664
diagnostics using microwaves, 21:15109
diagnostics using microwaves in Q devices, (E), 24:26165
diagnostics using microwaves, apparatus for, (E), 23:12761 (CEA-CONF-1115)
diagnostics using microwaves, comparison of methods for, 22:11417
diagnostics using microwaves, cylindrical waveguide properties for, 21:7197
diagnostics using microwaves, density and temperature, 21:15112
diagnostics using microwaves, electron collision frequency in mercury-vapor dc charge, (E/T), 25:40607
diagnostics using microwaves, electron collision frequency, 22:19957
diagnostics using microwaves, electron density, 21:15122
diagnostics using microwaves, electron density, 22:19954
diagnostics using microwaves, electron density and ionization rate, 22:9295
diagnostics using microwaves, electron density and collision frequency from, (E), 25:47503
diagnostics using microwaves, electron density and collision frequency, 24:30323
diagnostics using microwaves, electron density, (E), 23:16784
diagnostics using microwaves, electron density, (T), 25:19656 (EP-RR-21)
diagnostics using microwaves, enhanced scattering by instabilities in, 23:6985
diagnostics using microwaves, equipment development for, 22:24281 (MATT-Q-25, pp 305-20)
diagnostics using microwaves, focusing lens for, 21:20937
diagnostics using microwaves, research on, 21:29226 (TID-23827, pp 141-216)
diagnostics using microwaves, review of, (E), 23:25301
diagnostics using microwaves, signal processing system using modulated scatterers, 24:5154 (IPP-2/77)
diagnostics using microwaves, techniques for, 24:32817
diagnostics using microwaves, using reflection coefficient, 21:42045
diagnostics using millimetric and submillimetric waves, technique for, 25:33217(T) (MATT-Trans-9)
diagnostics using modified Langmuir probes, performances of, (T), 22:19956
diagnostics using molecular hydrogen ion beam breakup, density contour, 21:31417
diagnostics using multi-channel Fabry—Perot interferometer, ion temperature, 25:43341
diagnostics using multi-electrode probes, (E), 24:1376
diagnostics using multi-electrode probes, with relative negative potentials, (E), 24:1384
diagnostics using multigrid energy analyzers, first grid effects on performance of, 24:49124

diagnostics using narrow-band far-infrared interferometers, electron density, 24:6520
diagnostics using neutral atom ejection analysis, method for detecting, 22:13440
diagnostics using neutral helium beams, electron temperature and density, 23:42236 (UCRL-50638)
diagnostics using neutral potassium beams, 24:49104(R) (UCB-34-P-128-15)
diagnostics using nonlinear interacting electromagnetic waves, density, (E), 23:51601 (CEA-CONF-1392)
diagnostics using nonlinear mixing of electromagnetic waves, electron density, (T), 25:27684
diagnostics using open barrel-shaped cavities, 25:22490
diagnostics using open cylindrical cutoff resonators, 25:22495
diagnostics using open resonator, density, 25:58977(T) (AEC-tr-7271)
diagnostics using open resonators, density, (E/T), 25:36089 (KHFTI-69/51)
diagnostics using open resonators, electron collision frequency, 22:41554
diagnostics using optical and Mach—Zehnder interferometers, 25:17142
diagnostics using optical interferometers, method for, 24:37436 (SIT-2582-33, pp 14-42)
diagnostics using optical interferometry and holographic techniques, 25:59001
diagnostics using optical line modulation by high-frequency oscillations, (E), 24:10508
diagnostics using optical maser beams, 23:42251
diagnostics using oscillatory circuit, density, (E), 24:17889
diagnostics using photodetachment flash, negative ion density in, (E), 24:3316
diagnostics using photon counting, properties of, 22:34609
diagnostics using planar probes, electrostatic waves near sheath of, (E), 25:47511
diagnostics using plane capacitor containing inhomogeneous and anisotropic plasma, 23:25299
diagnostics using plane grid capacitor, rf admittance of, (E), 23:12769
diagnostics using plane grid capacitors, rf properties of, (T), 23:12770
diagnostics using plane probes, voltage drop across pre-sheath of, (T), 24:23953
diagnostics using plane resonance probes, (T), 24:17891
diagnostics using polarized light scattering, temperature, (T), 22:26366
diagnostics using polycrystalline probes, (T), 24:3318
diagnostics using positron annihilation, (E), 24:35381 (AD-702760)
diagnostics using principle of maximum entropy, velocity distribution function, 23:1377 (N-68-25920)
diagnostics using probes at high and intermediate pressures, saturation ion current to probe in, 24:49122
diagnostics using probes at intermediate pressures, saturation ion current, (T), 24:49120
diagnostics using probes, calculation of electron current saturation in magnetic field for, 23:3465
diagnostics using probes, density determination from probe ion characteristics over varying pressure range in, 24:49123
diagnostics using probes, effects of thermionic electron emission on, (T), 24:21771
diagnostics using probes, electron energy distributions, 24:8441
diagnostics using probes, electrostatic sheath kinetics for, 21:15111
diagnostics using probes, impedance analysis for, (E), 24:37441
diagnostics using probes, method for measuring dc currents of floating potentials, 22:7267
diagnostics using probes, resonance rectification effects in, 21:39985 (SU-IPR-177)
diagnostics using propagation of extraordinary wave, density-profile, (E), 23:51602 (CEA-CONF-1393)
diagnostics using pulsed ion chamber technique, 24:15180
diagnostics using quadrupole mass filters, performance of, 24:40042 (IPPJ-T-5)
diagnostics using radar interferometry, 22:46129
diagnostics using reflection of circularly polarized electromagnetic waves, 21:3816 (AD-642123)
diagnostics using refractive microwave beam, electron density and temperature, (E), 23:18601 (NP-17785)
diagnostics using refractory methods, review of, 22:17632
diagnostics using relativistic Doppler broadening, 22:44105
diagnostics using resistively and capacitively coupled probes, coherent oscillations and turbulence, 24:30315 (N-70-21713)
diagnostics using resonance plane probes, theory for, 22:24274
diagnostics using resonance probes, boundary theories for, 22:26372
diagnostics using resonance probes, properties near ion frequency, 21:39993
diagnostics using resonant cavities, electron density, (E/T), 24:8443
diagnostics using resonant charge transfer with neutral beams, density, 21:9555(P)
diagnostics using resonant probes, computer simulation of, (T), 23:12768
diagnostics using resonator method, electron density, 24:49125
diagnostics using retardation method and multi-electrode probes, (E), 24:1383
diagnostics using rf conductivity measurements, (E), 24:51627
diagnostics using rf conductivity measurements, density and collision frequency, 25:7367
diagnostics using rf floating double probe, 24:28239
diagnostics using rf impedance methods, electron density and collision frequency, (E), 23:20894
diagnostics using rf Langmuir probes, 23:12775
diagnostics using rf probes, complex conductivity, (E/T), 24:15283
diagnostics using rf probes, electric conductivity, (E), 23:25296
diagnostics using rf probes, space potential, (E), 24:12795
diagnostics using Rogowski coils, current measurement, 23:36656
diagnostics using scanner apparatus, data processing system for current—voltage curves from, (E), 23:23087
diagnostics using scattered laser light, electron oscillations, (E), 23:32350
diagnostics using scattered radiation phase shifts, electron density, 22:48086
diagnostics using scattering of laser emission by electrons, (E), 24:6525
diagnostics using screened probes, positive ion collection on, 24:51615 (IPP-2/83)
diagnostics using selective change of optical thickness, electron density, (E), 25:56133 (INR-P-1322)
diagnostics using selective change of optical thickness, electron density, (T), 25:40609
diagnostics using shf radiations from, electron temperature, 25:11877
diagnostics using small retarding field energy analyzers, electron distribution function, 24:40052
diagnostics using small-angle electromagnetic wave propagation, density, (T), 23:18606
diagnostics using small-angle electron scattering, 22:34588 (AD-666475)
diagnostics using sounding probes, in magnetic fields, (E), 24:3312
diagnostics using space potential probes with guard rings, (E/T), 24:3311
diagnostics using spectral analysis of laser beam scattering, 25:40605
diagnostics using spectral line broadening, density, 22:34599
diagnostics using spectral temperature recorder, 25:40595 (INR-1258)
diagnostics using spectroscopic methods, limitations in, 22:41566
diagnostics using spherical electrostatic probes, anomalous currents in, (T), 24:8439
diagnostics using spherical electrostatic probes, continuum theory for, 21:44031 (N-67-23272)
diagnostics using spherical electrostatic probes, theory for, 24:35400
diagnostics using spherical electrostatic probes, kinetic theory for, 22:3031
diagnostics using spherical electrostatic probles, asymptotic theory for, 22:24262
diagnostics using spherical Langmuir probes, theory for, 22:13444
diagnostics using spherical probes, effects of electron emission on, (T), 23:12785
diagnostics using spherical probes, effects on ionization and recombination in, 25:5084
diagnostics using spherical probes, response to alternating potentials, (T), 23:12773
diagnostics using standing radial waves, 24:26161
diagnostics using Stark broadening, nonequilibrium electric field, (E), 25:22488
diagnostics using Stark—Zeeman effect, spectroscopic, 24:40050
diagnostics using surface wave propagation, electron density, (T), 22:44107
diagnostics using surface waves, electron density, 21:18645
diagnostics using thin cylindrical probes, in magnetic fields, 23:10621
diagnostics using Thomson scattering of laser beams, electron-optical method for recording, 21:46317(T) (LA-tr-67-77)
diagnostics using Thomson scattering of laser light, ion and electron temperature and density, (E), 23:14766
diagnostics using Thomson scattering of laser light, electron temperature and density, (E), 25:33242
diagnostics using Thomson scattering of laser light, construction of electron distribution, 25:56143
diagnostics using Thomson scattering of laser light, magnetic field, (E), 25:9427
diagnostics using Thomson scattering, electron temperature, 24:37437 (SIT-2582-33, pp 43-51)
diagnostics using three-coil probe, boundary conditions for, 22:39042 (N-68-21691)
diagnostics using time-resolved sampling technique, ionization-wave, 25:14247
diagnostics using torsional Alfven waves, (E), 23:30530
diagnostics using two-frequency single-exposure holography, (E/T), 25:49878
diagnostics using two-quantum transitions and spectral line shifts, electric field, 23:3469 (UCRL-50002-68, pp 174-89)
diagnostics using two-wavelength interferometry with color film, electron density, 22:13442
diagnostics using ultrasonic propagation, high-temperature, 24:10514
diagnostics using vhf electromagnetic field, method for, 21:39990
diagnostics using Voigt effect and laser radiation, magnetic field, 23:51614
diagnostics using waveguide interactometers, measurement interpretations from, 21:5250
diagnostics using waveguide probe, temperature, 22:26374
diagnostics using x-ray spectroscopy, temperature, 25:3073
diagnostics, arrangement for laser scattering in, (T), 21:15117
diagnostics, design of double magnetic probe for, 23:10609
diagnostics, extension of measurable density ranges in microwave, (E), 21:9552
diagnostics, heat transfer effects to probe in, 24:46425
diagnostics, impedance of probe in warm, (T), 23:46457
diagnostics, particle escape in nonadiabatic traps in, (E), 21:2206 (TID-23318, pp 193-206)
diagnostics, potassium beam probe for, 21:23162 (CLM-R-68)
diagnostics, thin fused-quartz bubble window for, 21:2228 (TID-23318, pp 93-121)
diagnostics, use of high-sensitivity schlieren technique for, 21:5258
diagnostics, use of mass spectrometers in, (T), 21:15118
diagnostics, use of rotating Langmuir probes in flowing, 21:5259
diamagnetism in magnetic fields, electromagnetic wave effects on, (T), 24:40102
diamagnetism inside coil and metallic liner, eddy current effects on, (T), 24:40061
diamagnetism of positive column discharge, 22:34710
diamagnetism of radially inhomogeneous, in uniform magnetic field, (T), 22:22149 (TID-24331, pp 211-15)
dielectric constant in multicomponent, calculation of longitudinal, 21:15115
dielectric constant of cylindrical plasmoid, tensor for, 21:27152
dielectric constant of cylindrical, at microwave regions, (T), 25:3087
dielectric constant of electron, hf, (T), 22:29498
dielectric constant of two-temperature, effects on plasma kinetics, 21:15127 (JPL-TR-32-888)
dielectric constant of weakly turbulent, (T), 23:32421
dielectric constant tensor of weakly inhomogeneous, (T), 24:5166
dielectric function for homogeneous, calculation of, 22:19979
dielectric permeability of equilibrium and nonequilibrium, exact equation for longitudinal, (T), 23:25360
dielectric permittivity in strong magnetic fields, (T), 25:14312
dielectric permittivity of weakly ionized, in crossed fields, (T), 25:59050
dielectric tensor of collisionless, guiding-center approximation for, 24:19922
diffusion across a magnetic field during drift instability of coilisionless potassium, (T), 21:25169
diffusion across magnetic field lines, nonlinear effects in, (T), 22:26361
diffusion across magnetic field, resonant, 21:42021
diffusion across magnetic field, review of, (E), 22:24254(T) (NP-tr-1640)
diffusion across magnetic fields in two dimensions, simulation of, (T), 25:47500
diffusion across magnetic fields, (E), 21:33365 (CONF-670104-Pt.1, pp 223-34)
diffusion across magnetic fields, (E), 22:48079
diffusion across magnetic fields, (T), 21:9536
diffusion across magnetic fields, (T), 21:18625
diffusion across magnetic fields, ac diagnostics of, (E), 24:21768
diffusion across magnetic fields, ambipolar, (T), 24:21756
diffusion across magnetic fields, effects of electric fields on, (E/T), 22:7282
diffusion across magnetic fields, electric fields from, (E), 21:7252
diffusion across magnetic fields, electron and ion, (T), 21:7182
diffusion across magnetic fields, inertial effects on, (T), 21:5237 (NP-16389)
diffusion across magnetic fields, ion—acoustic oscillation effects on, 21:15202
diffusion across magnetic fields, phase method for measuring, (E), 23:12754
diffusion across magnetic fields, pressure effects on, (E/T), 23:1355 (IPPJ-70)
diffusion across magnetic fields, properties of, (E/T), 21:2195 (NP-16363)
diffusion across magnetic fields, resonant, (T), 21:33362 (MATT-Q-24, pp 197-334)
diffusion across magnetic fields, turbulent, (T), 24:1372
diffusion across magnetic fields, Vlasov theory for, 21:726
diffusion across magnetic fields, weak turbulence effects on current decay in, (T), 23:12746
diffusion across Q-device, potassium, 22:34581 (SIT-2813-46)
diffusion across transverse magnetic fields, (E), 23:8582
diffusion across uniform magnetic field, kinetic theory of transverse, 22:1147
diffusion and anomalous instabilities in homogeneous, research on, 22:46191(R) (SU-IPR-249)
diffusion and conductivity of turbulent weakly ionized, in dc discharges, (E), 24:8457
diffusion and drift-wave fluctuation in fully ionized cesium, anomalous, (E), 24:3391
diffusion and heating in beam—plasma system, enhanced, (E), 24:6507 (AD-693807)
diffusion and microinstabilities in thermal, (E/T), 22:24367
diffusion and oscillations in afterglow, anomalous, (E), 24:35489
diffusion and oscillations in helium and neon afterglow, (E), 23:23107 (IPP-2/65)
diffusion and recombination in Q devices, (E), 23:32395
diffusion and recombination in, (T), 22:20009
diffusion and spectra in turbulent, with collisional and collisionless dissipations, (T), 24:1418
diffusion and stability in toroidal systems, (T), 23:42344
diffusion and thermalization of turbulent, research on anomalous, 22:34580(R) (ORO-3458-11)
diffusion and thermodiffusion coefficients of multicomponent thermal nonequilibrium, in stationary electromagnetic field, 22:41575
diffusion and turbulent heating in pinch, anomalous, (T), 25:38351 (CONF-710607-66)
diffusion between magnetosphere and solar wind, 21:678 (AD-633251)
diffusion coefficient measurements in Daphnis I and II, 21:39984

diffusion coefficient measurements in magnetically confined, wave technique for, (E), 22:22147 (TID-24331, pp 121-52)
diffusion coefficients for Tokamak devices, (E/T), 22:19937(T) (NP-tr-1622)
diffusion due to drift-dissipative instability, kinetic theory of, 25:1157 (CEA-CONF-1596)
diffusion due to ion—ion collisions in multicomponent, 21:9600
diffusion due to weak nonaxisymmetry in magnetic or electric fields, (T), 25:49870
diffusion during current instability, turbulent, (T), 23:27606
diffusion during drift instability, turbulent state in potassium, (T), 21:25170
diffusion enhancement in turbulent, relation between enhanced longitudinal resistivity and transverse, (T), 22:31818
diffusion equation for positive column, approximate solution for, 21:29198
diffusion equation for, numerical solution of, 25:9468
diffusion equation for, stability of wave solutions for, (T), 21:44026
diffusion from positive columns above critical magnetic field, (T), 22:13495
diffusion in 8-m theta-pinch high-β, (E), 23:32461
diffusion in afterglow discharges, anomalous, (E), 24:37451
diffusion in arc discharges in magnetic fields, quasi-ambipolar, (T), 25:17187
diffusion in argon glow discharges, ambipolar, 24:49140
diffusion in axially decaying magnetized, in presence of oscillations, (T), 25:52774
diffusion in axisymmetric magnetic traps, effect of electric fields on, (T), 25:38335 (CONF-710607-28)
diffusion in axisymmetric toroidal systems, anomalous, (T), 25:33210
diffusion in axisymmetric torus, collisional, (T), 24:15274
diffusion in closed magnetic traps, effects of charged particle streams on, (T), 25:58975
diffusion in cold-cathode reflex discharges, properties of anomalous, 22:11408(R) (SU-IPR-207)
diffusion in collision-dominated positive columns, radial structure in, 24:35431
diffusion in crossed electric and magnetic fields, along direction of electric field, (T), 24:35422
diffusion in crossed-fields, (E), 22:24277 (MATT-Q-25, pp 166-82)
diffusion in curved theta pinch, suppression of, (E), 23:14749
diffusion in cylindrical column above critical magnetic field, 24:51658 (N-70-23950)
diffusion in cylindrical discharge column, anomalous, (E), 22:26381 (NP-17439)
diffusion in discharges in magnetic fields, ambipolar, (E/T), 23:5433
diffusion in discharges, properties of, 23:5414
diffusion in electric and magnetic fields, drift velocity, (T), 23:34423(T) (AEC-tr-7049)
diffusion in electric arcs, (E), 22:9307 (TID-24203, pp 53-71)
diffusion in electric fields, electron and ion, 24:21803
diffusion in electric fields, statistical theory of, 21:42020
diffusion in flash x-ray discharge tubes, 25:30499 (UUIP-659)
diffusion in Garching octupole device, 22:5307 (IPP-6/61)
diffusion in glow discharges, determination from density fluctuations, (E/T), 24:40055
diffusion in helically perturbed magnetic field, resonant and nonresonant, 21:39972 (TID-23971, pp 123-212)
diffusion in helium and xenon afterglow, measurement of thermal, 22:1222
diffusion in hf discharges in magnetic fields, (E/T), 24:8431
diffusion in induced hf discharge, (E/T), 23:42257
diffusion in l = 3 stellarators, calculation using stellarator expansion technique, 25:13793
diffusion in l = stellarators, effects of non-equipotentiality of magnetic surfaces on, (T), 24:12778(T) (CTO-674)
diffusion in L-1 stellarator, (E/T), 24:5151 (CONF-690619-15)
diffusion in linear E-type rf discharges, anomalous, (E/T), 21:46304 (ORO-3516-2)
diffusion in low-pressure cross-field heating device, helium, (E), 24:19884
diffusion in low-pressure hf discharges, enhanced, 21:44018 (CONF-670810-4)
diffusion in magnetic fields, density distribution effects on local decay time, (T), 25:14294
diffusion in magnetic fields, effects of Coulomb interactions on, (E/T), 24:26171
diffusion in magnetic fields, effects of electron temperature on, (E), 23:30520 (NP-17896)
diffusion in magnetic fields, effects of oscillations on, (T), 24:42654
diffusion in magnetic fields, nonlinear properties of, 23:7016
diffusion in magnetic fields, transverse, 21:11588 (IPP-2/50)
diffusion in magnetic fields, two-dimensional, (T), 25:40586
diffusion in magnetic mirror fields, violation of third adiabatic invariant, (T), 22:3009
diffusion in magnetic mirror traps, transverse, 25:45448 (NP-18917)
diffusion in magnetic mirrors, computer simulation of, 25:17129
diffusion in magnetically driven shock tubes, effect on current-sheet speed, 25:17155
diffusion in magnetically perturbed multipoles, effect of toroidal field on, (E), 25:43335
diffusion in magnetized columns, enhanced losses in rf, (E), 24:26173 (AD-698039)
diffusion in magneto-, relation of high-frequency oscillation to enhanced, (E), 21:7222
diffusion in magnetostatic and potential fields, (T), 21:2200
diffusion in medium-pressure positive column discharges, in neon, (T), 23:6994
diffusion in minimum B fields, 22:46100 (IAE-1488)
diffusion in minimum-B geometries, (E), 23:8569(T) (AEC-tr-7004)
diffusion in multipoles toward conductors and walls, (T), 25:58970
diffusion in neon afterglow, measurement of thermal, 21:29239
diffusion in nonaxisymmetric toroidal systems, collisional, (T), 24:15275
diffusion in nonisothermal, (T), 23:20772
diffusion in nonuniform transverse magnetic fields, (E/T), 21:18632
diffusion in one-dimensional magnetohydrodynamic systems, radiative reactions in resistive, (T), 24:21757
diffusion in Penning discharges, effect of lf oscillations on, 24:35373
diffusion in PIG discharges, (E), 24:15302
diffusion in positive column discharge tubes, transverse, 22:34708
diffusion in positive column discharges, for small electron densities, (T), 21:46313
diffusion in positive column discharges, transverse, (T), 24:32842
diffusion in positive columns in longitudinal magnetic fields, (E), 25:22477
diffusion in positive columns in magnetic fields, normal to anomalous, (E/T), 24:26172
diffusion in positive columns, theory for, 21:2259
diffusion in positive-gradient magnetic-field configurations, reduced, 21:13536
diffusion in Q devices, convective and oscillatory losses in, (E), 24:26184
diffusion in Q devices, convective losses in, (E), 24:26177
diffusion in Q devices, dispersion relation for, 22:36881 (RISO-171)
diffusion in Q devices, drift-wave growth rates for, (E), 24:15373
diffusion in Q devices, effect of shear on, (E), 22:24243 (MATT-Q-25, pp 118-65)
diffusion in Q devices, ion—neutral collisional effects on, 22:11404(R) (LA-3831)
diffusion in Q devices, research on, 22:41571(R) (TID-24563)
diffusion in Q devices, research on, 22:31865(R) (ORO-3405-20)
diffusion in Q devices, research on, (E), 24:32848(R) (ORO-3405-29)
diffusion in Q-device, wave-excited anomalous, 21:9532
diffusion in Q-machine, potassium, 21:15196 (MATT-522)
diffusion in Q-machines, cross-field, 21:7180
diffusion in relativistic electron, test particle, (T), 21:25139
diffusion in rf-excited magnetized, ambipolar, (T), 23:23075
diffusion in shf discharges, longitudinal and transverse, (E), 25:45447 (NP-18916)
diffusion in single-ended Q device, cross-field, 21:27145(R) (SIT-2813-40)
diffusion in Sirius stellarator, effect of divertor magnetic surface on, 25:22475
diffusion in solar-active region, anomalous, (T), 23:36376
diffusion in Spherator SP-1, Bohm and classical, 23:3439 (MATT-607)
diffusion in stellarators, (T), 23:51591
diffusion in stellarators, effects on confinement, (T), 25:7357(T) (LA-tr-70-23)
diffusion in stellarators, recombination effects on, (E/T), 25:30462 (NP-18767)
diffusion in stochastic fields, (E/T), 22:24259
diffusion in stochastic fields, heating rates for, (T), 21:727
diffusion in stochastic fields, rates for, (T), 21:727
diffusion in stochastic fields, transverse, (T), 25:27719
diffusion in stochastic rf fields, (T), 23:46453
diffusion in supermassive stars, (T), 21:20642
diffusion in thermionic converters, temperature gradient effects on, 21:9580
diffusion in time-dependent meridional magnetic fields, guiding-center, (T), 23:12747
diffusion in Tokamak devices, currents from, (T), 25:33208
diffusion in Tokamak devices, effect of longitudinal magnetic fields on, (T), 25:1166
diffusion in Tokamak devices, effects of electrostatic fields on untrapped particle, (T), 25:5071
diffusion in tokamak devices, effects of trapped-particle pinch effect in, (T), 25:38336 (CONF-710607-29)
diffusion in Tokamak devices, electric field effects on, (T), 25:14238
diffusion in tokamak devices, research on, (T), 25:45494 (ORNL-4688, pp 1-23)
diffusion in toroidal and superimposed rotational magnetic fields, (T), 24:10544
diffusion in toroidal configurations, probability of trapping-state transitions in, (T), 25:40585
diffusion in toroidal confinement system, equilibrium conditions for, 24:28232
diffusion in toroidal devices, anomalous contribution of lf long-wavelength fluctuations in, (T), 25:38355 (CONF-710607-73)
diffusion in toroidal devices, ignition when undergoing Bohm, (T), 22:36882 (UCID-15334)
diffusion in toroidal geometries, energy balance equation for, 24:35379
diffusion in toroidal geometries, transport coefficients for, (T), 25:38354 (CONF-710607-71)
diffusion in toroidal magnetic fields, 23:6975
diffusion in toroidal magnetic fields with divertors, (E), 25:38395
diffusion in toroidal magnetic fields, (E/T), 22:17613
diffusion in toroidal magnetic fields, (E/T), 22:17614
diffusion in toroidal magnetic fields, development of ambipolar electric fields in, (T), 25:38356 (CONF-710607-74)
diffusion in toroidal magnetic fields, field motion in, 21:42017
diffusion in toroidal magnetic traps, (T), 24:37425(T) (CTO-721)
diffusion in toroidal magnetic traps, momentum conservation in, (T), 24:21761
diffusion in toroidal magnetic traps, relaxation in, (T), 23:48876(T) (MATT-Trans-90)
diffusion in toroidal octupole fields, research on, (E/T), 21:5240(R) (TID-23454)
diffusion in toroidal stellarator, (T), 25:43374
diffusion in toroidal stellarators, (T), 22:24255(T) (NP-tr-1644)
diffusion in toroidal stellarators, (T), 23:18594
diffusion in toroidal systems with anisotropic pressure, (T), 24:45247
diffusion in toroidal systems, classical, (T), 25:9400
diffusion in toroidal systems, effects of temperature perturbations on, (T), 24:10501
diffusion in toroidal systems, turbulent, (T), 24:35376
diffusion in toroidal theta pinch, (T), 24:17877
diffusion in Townsend discharges, in uniform electric fields, 22:7300
diffusion in transverse magnetic field, effects of electron scattering on, (T), 23:3499
diffusion in uniform electric and nonuniform magnetic fields, (T), 24:47229 (IPP-4/5)
diffusion in uniform magnetic fields, turbulence induced electron—ion, (T), 25:40670
diffusion in Uragan stellarator, ohmic-heated, (E), 24:26175(T) (CTO-677)
diffusion in velocity space from ion—ion collisions and ion-wave microturbulence, (E/T), 24:26147
diffusion in velocity space from ion—ion collisions in, (E), 24:8433
diffusion in weakly turbulent, anomalous, 21:42085
diffusion in, atomistic computer modeling of anomalous, 22:48110
diffusion in, correlation to density fluctuations, (E/T), 21:2198
diffusion into ambient gas in external magnetic fields, (E/T), 25:45458 (AD-719885)
diffusion lifetime in Tokamak-3, measurement of, (E), 25:49867(T) (MATT-Trans-106)
diffusion modes of alkali magneto-, ion—ion collisional effects on, 21:13525 (MATT-523)
diffusion of afterglow, anomalous, (E), 21:35134 (IPP-2/62)
diffusion of axisymmetric toroidal, two-fluid model for, 25:7361
diffusion of cesium in magnetic fields, density profiles in, (E/T), 25:52824
diffusion of cesium in Q devices, drift wave effects on, (E/T), 24:17999
diffusion of cesium in Q devices, viscous, (T), 22:24280 (MATT-Q-25, pp 257-303)
diffusion of cesium, in narrow columns, (E), 22:24243 (MATT-Q-25, pp 118-65)
diffusion of cesium, in stellarators, 21:2199
diffusion of cesium-compound, in ionosphere, (E), 24:5051 (N-69-35358)
diffusion of collisional magneto-, anomalous, (T), 24:37470
diffusion of collisional, Landau damping in, (T), 24:30364 (AD-696150)
diffusion of cylindrical, drift instability effects on, 21:15100
diffusion of decaying helium in stellarator, across magnetic fields, (E/T), 25:30472
diffusion of decaying helium, across magnetic fields, (E/T), 24:51634
diffusion of decaying, transition from ambipolar to free, (T), 23:12841
diffusion of dense decaying, in stellarators, (T), 25:1163 (NP-18502)
diffusion of discharge, across magnetic fields, (E), 22:24250(T) (AD-666145)
diffusion of discharge, in static magnetic fields, 21:44017 (CONF-660421-3)
diffusion of electromagnetic and ion cyclotron wave effects on, (T), 24:18003
diffusion of electrons in toroidal magnetic fields, effects of nonadiabatic scattering on, 25:30466
diffusion of equilibrium toroidal, at intermediate and higher collision frequencies, 25:52778
diffusion of fast electrons in stochastic magnetic fields, (T), 23:12745
diffusion of fully ionized, in magnetic fields, drift velocity, (T), 23:39444
diffusion of helium afterglow, 22:39038
diffusion of high-β, in theta pinch, (E), 23:48878
diffusion of high-electron-temperature, transverse to magnetic field, (E), 23:30521 (NP-17897)
diffusion of high-frequency, (E), 22:9406
diffusion of homogeneous nongyrotropic magneto-, kinetic equation for transverse, (T), 21:11598
diffusion of hot, in magnetic fields, (T), 21:7183
diffusion of hydrogen colymn, in magnetic field, 21:23224 (CEA-R-3130)
diffusion of inhomogeneous, (T), 21:5244
diffusion of localized density fluctuation in uniform magneto-, (T), 25:43370
diffusion of low-beta axisymmetric toroidal, properties of, (T), 25:52777
diffusion of low-β, across magnetic fields, (T), 23:23068
diffusion of low-β, camera observations of electric and pressure, (E), 24:3344
diffusion of low-density, in H_{11} wave, radial divergence in, (E/T), 23:5435

diffusion of magnetically confined cesium, radial electric field effects on, 21:33366 (CONF-670104-Pt.1, pp 235-42)
diffusion of magnetically confined low-beta collision-dominated, cross-field, (E), 23:23071
diffusion of magnetized, drift-wave fluctuations in, (T), 24:26287
diffusion of magneto-, collisional transverse, (T), 22:17616
diffusion of magneto-, drift wave effects on transverse, 21:29197
diffusion of magneto-, in Q-devices, 22:13428 (NP-17257)
diffusion of magnetoactive relativistic, quasilinear theory of resonant, 22:41592
diffusion of microwave-excited afterglow, (E), 24:51636 (AD-705693)
diffusion of microwave-excited, (E), 25:38425
diffusion of nitric oxide, in decaying helium, (T), 24:28278
diffusion of nonequilibrium seeded, drift velocity of, (T), 22:13492
diffusion of nongyrotropic column of, Landau equation for, 21:13526 (N-66-26751)
diffusion of partially ionized, across magnetic fields, (E), 23:20903 (UCRL-17601)
diffusion of partially ionized, cross-field convection, (T), 24:10502
diffusion of potassium magneto-, in Q device, (E), 22:26352 (NYO-2813-39)
diffusion of potassium Q, transverse, (E), 22:24283(R) (SIT-2813-44)
diffusion of potassium, in Q device, 21:33368 (CONF-670104-Pt.1, pp 259-70)
diffusion of quiescent potassium magneto-, cross-field, (E), 22:31828
diffusion of relation of singularities of fluid equations to anomalous, 22:19943
diffusion of rf-excited magneto-, ambipolar, (T), 23:1361 (MIAPH-PL-68.4)
diffusion of ring of, in toroidal magnetic fields, 21:11587 (IPP-1/53)
diffusion of ring, in toroidal magnetic fields, (E), 22:19942
diffusion of stationary toroidal, classical, (T), 23:14751
diffusion of strongly ionized thermal cesium, in magnetic fields, (E/T), 25:52797
diffusion of thermal potassium, turbulent, (E), 22:17617
diffusion of theta pinch, due to asymmetry of magnetic field, 21:29195
diffusion of toroidal discharge, (T), 21:732
diffusion of toroidal, with radial electric fields, (T), 23:23070
diffusion of toroidal-confined, rotation and shock formation from resistive, (T), 25:14235
diffusion of turbulent, in electric fields, (T), 25:27673
diffusion of turbulent, in magnetic fields, (T), 25:33211
diffusion of turbulent, transport coefficients for, 22:29464
diffusion of two-component bounded magneto-, research on, (T), 22:1270(R) (ORO-2454-9)
diffusion of unstable strongly inhomogeneous, across magnetic fields, 23:8581
diffusion of weakly ionized helium, in metal chamber immersed in magnetic field, 21:29200
diffusion of weakly ionized turbulent, without external magnetic field, 25:7360
diffusion of, computer experiments on anomalous, 22:11407(R) (SU-IPR-202)
diffusion of, computer simulation of anomalous, 21:33374
diffusion of, effects of geometric factors on anomalous, (T), 24:40038
diffusion of, general theory for, 21:18634
diffusion of, internal electric and magnetic field effects on, 21:27150
diffusion of, magneto-fluctuation theory of ambipolar, 24:3297 (N-69-33418)
diffusion of, plasma wave echo measurement of velocity space, (E), 23:39471
diffusion of, relativistic magnetoionic theory for, 22:22182
diffusion of, relativistic properties of, 22:34575 (AD-662908)
diffusion of, research on, 25:47515(R) (UCSD-34-P-85-13)
diffusion on Tokamak discharges, radial, (T), 25:38334 (CONF-710607-27)
diffusion processes in toroidal devices, (T), 23:3443(T) (NP-tr-1701)
diffusion rate of toroidal, at intermediate collision frequencies, equilibrium, (T), 24:17883
diffusion tensor of inhomogeneous Lorentz, nonlinear, 22:34670
diffusion theory of positive column, with two-stage ionization and collisional de-excitation, 24:17935
diffusion—recombination processes in column of, (T), 25:38437
discharge, transport and energy balance coefficients in helium and neon, (E), 23:23117
dispersion kernel of homogeneous hot, without magnetic field, 21:15179
distribution function and correlation energy of high-temperature, binary, (T), 22:26386
distribution function for classical Coulomb gas, pair, 24:45251
distribution function for Debye-approximation equilibrium, transformation of, 24:28287
distribution function for dense, binary, 22:20015
distribution function for hydrogen, calculation of radial, (T), 22:22154
distribution function for magnetically confined, effect of aperture on measurement of, (T), 24:51659 (N-70-24369)
distribution function for, quantum-mechanical calculation of radial, 23:12776
distribution functions for electron, quantum mechanical, 23:1448
distribution in Alice device, effects of ion cyclotron instabilities on, 22:41628 (UCRL-70868)
distribution of excited species in, technique for measuring radial, 23:3456
distribution of thermal, in Jovian magnetosphere, 22:17208
disturbances in cold, three-dimensional, (T), 22:34466
drift inhomogeneities in interplanetary, radioastronomical investigations of, (T), 24:15085
drift-wave instabilities in magnetic fields of, with temperature gradient, (T), 25:43244
driver for, design of thermoacoustic generator for, 22:209 (SC-CR-67-2759)
dynamics of magnetospheric, (T), 25:33115
dynamics of rarefied, 23:14666(R) (NP-17752)
effect of collisionless magneto-, on gyro-synchrotron radiation emission from accelerated electrons, (T), 25:38243
effects in solid-state detectors, 21:24207
effects of flowing, on wall conductivity of glass discharge tubes, (E), 21:20832
effects of magnetic field of flowing, on boundary shape of cavity containing a dipole field, (T), 22:15450
effects of rf-activated inert gas, on bondability and critical surface tension of polydimethyl silicones and polyethylene, 25:57272 (SC-RR-710483)
effects of solar atmospheric, on gyrosynchrotron emission spectra, (T), 22:34152
effects of supernova counterstreaming, on cosmic-ray acceleration, (T), 24:47045 (UCRL-50880)
effects on noise figure of space vehicle microwave receivers, 22:10636 (SC-RR-67-2964)
effects on synchrotron emission by electrons, (T), 22:31551
ejection from galactic nuclei and quasars, (T), 24:6311
ejection of bodies of, from galactic nuclei and quasars, (T), 25:11658
electric and magnetic fields in relativistic, probability distributions of, 22:34700
electric arc discharges in, with transverse magnetic fields, 21:42047 (ARL-67-0119)
electric breakdown of gap between cold electrodes and argon, by induced electric field, 25:33291
electric conductivity between cold electrodes in shocked xenon, 23:51639
electric conductivity decrease in turbulent, relation between enhanced transverse diffusion and longitudinal, (T), 22:31818
electric conductivity enhancement in, syringe for alkali metal seeding for, 21:14509
electric conductivity in wave front of laser-produced, in magnetic fields, (E), 23:32374
electric conductivity of, 22:1172(R) (AD-646672)
electric conductivity of fully ionized, in magnetic field, (T), 23:14756
electric conductivity of low-density, calculations for impedance bridge technique for measuring, 21:22199 (SC-RR-67-190)
electric conductivity of, two coil rf method for determining, 23:42250
electric discharge currents in, in crossed electric and magnetic fields, 21:42111
electric discharge formation in noncylindrical Z-pinch, (E/T), 22:46172
electric discharge in 3-torr helium, spectrographic measurements of, 21:11645
electric discharge in argon, using brush cathodes, 21:9617
electric discharge in dense lithium, diagnostics of high-current pulsed, (E/T), 25:33238
electric discharge in flowing, specific energy and electric field for maintenance of electrodeless, (E), 22:11472
electric discharge in seeded argon at atmospheric pressure, characteristics of uhf, 23:3457
electric discharge in, computer simulation of breakdown potential, (E/T), 25:59004
electric discharge in, effect of negative ions on, 21:35156 (CONF-670104-Pt.2, pp 335-47)
electric discharge in, frequency conversion in sheath capacitance of dc, between coaxial cylinders, (E/T), 23:3486
electric discharge in, self-similar problem in high-current, 25:38455
electric discharge with oscillating electrons in helium, mechanism of populating excited states of neutral atoms in, (T), 23:1490
electric discharge, vaporization during powder insufflation into, 22:44111(T) (IS-Trans-76)
electric discharges at electron cyclotron resonance, multipacting, (E), 23:18620 (CONF-680113-(Vol.1), pp 145-7)
electric discharges between metallic dielectric electrodes in helium, ac, (E), 23:25321
electric discharges in air, optical and energy characteristics of high-power, (E), 24:49143
electric discharges in air, simulation of spark, (T), 25:52826
electric discharges in argon and cesium, ion species in high-pressure, (E/T), 23:34397(R) (AD-683685)
electric discharges in argon and neon, onset properties of positive column, 21:37488
electric discharges in argon columns, self-excited steady layers in, (T), 25:9465
electric discharges in argon, correlation of light fluctuations in positive column, (E), 23:14778 (NIJS-P-224)
electric discharges in argon, current structure in pinch, 21:42122
electric discharges in argon, drag width of short moving arc, 22:7316
electric discharges in argon, electron and atom distribution in high-current, 24:40069
electric discharges in argon, electron density in contracted hf, 22:50139
electric discharges in argon, excitation of coherent radiation in, (E), 24:47224(T) (UCRL-Trans-10478)
electric discharges in argon, light fluctuations in positive column, (E), 23:51631
electric discharges in argon, neutral gas temperature in, (E), 22:29504
electric discharges in argon, properties of high-current, 24:32826
electric discharges in argon, striation motion in low-pressure, (T), 25:40639
electric discharges in argon—mercury, axial mixing in, (E/T), 23:34403
electric discharges in bounded magneto-, energy loss of modulated axial current in, (T), 22:39121
electric discharges in breakdown potential for, 22:44116 (SC-RR-68-284)
electric discharges in carbon dioxide—oxygen mixtures, 23:42360
electric discharges in cesium, electrode effects in, (E), 25:47528
electric discharges in cesium, electron drift velocities in, (E), 23:51645
electric discharges in cesium, ion composition in high-pressure, (E), 24:30328(R) (AD-702077)
electric discharges in cesium, molecular ion density in arc, (E), 23:8617
electric discharges in cesium, molecular ion formation in, (E), 24:21781
electric discharges in cesium—argon, cesium depletion in, (E), 23:34269
electric discharges in cesium—argon, cesium ground-state depletion in, (E), 23:34268
electric discharges in cesium-seeded argon, preionization kinetics of, (E), 23:44441 (AD-686104)
electric discharges in column of, in magnetic field, (T), 21:33442
electric discharges in column, resonant behavior of, (E/T), 24:10521
electric discharges in flowing potassium-seeded argon, effects of velocity and temperature on, (E), 23:42261
electric discharges in flowing, striations in, (E), 24:21783
electric discharges in free-electron, negative point-to-plane breakdown in, (E), 22:34705
electric discharges in helium and hydrogen, electric field distribution in pulsed, (E), 23:14783
electric discharges in helium and neon, moving striations in, (E), 25:9453
electric discharges in helium, atomic and molecular processes in positive column, 22:2813
electric discharges in helium, energy balance in low-pressure, (T), 25:14301
electric discharges in helium, energy balance in positive column, 24:42667
electric discharges in helium, energy balance of positive column, (E/T), 24:49126 (NP-18450)
electric discharges in helium, excitation and ionization processes in microwave, (E), 24:10532
electric discharges in helium, excitation of higher energy states by, (E), 23:51641
electric discharges in helium, in magnetic fields, (E), 24:17917
electric discharges in helium, ionization and drift waves in, (E/T), 23:39503 (SU-IPR-301)
electric discharges in helium, ionization and energy level populations in positive column, 24:42666
electric discharges in helium, light emission study of late-time ionization in, 23:8609
electric discharges in helium, molecular helium formation in afterglow, (E), 23:16802
electric discharges in helium, pressure buildup in stationary magnetically stabilized, 21:18664 (IPP-3/48)
electric discharges in helium, time-dependent study of emitted light and electron density in low-pressure, (E/T), 22:15528
electric discharges in helium, turbulent eddies in high-density, 22:34627 (AD-662346)
electric discharges in helium—hydrogen, mixing phenomena in, (E/T), 24:8454
electric discharges in helium-3, nuclear polarization in, 22:50175
electric discharges in high-pressure, radiations from, (E), 24:28269
electric discharges in high-temperature, electrode mechanical properties in, 21:27162
electric discharges in hydrogen and deuterium, potential gradients in positive column, (E), 24:37450
electric discharges in hydrogen, current limitation and electric double sheet in, 22:26349(R) (IPPCZ-72)
electric discharges in hydrogen, development of spark, (E), 23:44410
electric discharges in hydrogen, electron losses in afterglow, (E), 24:28250
electric discharges in hydrogen, electron temperature and density development in, (E), 24:28270
electric discharges in hydrogen, formation of high-voltage pulsed, 21:44082
electric discharges in hydrogen, ion motion in, 21:42066
electric discharges in hydrogen, ionization waves in, (E), 23:42273
electric discharges in hydrogen, neutral atom density in decaying, (E), 22:36892
electric discharges in hydrogen, time lapse effects of gamma and x radiation on, 22:24318
electric discharges in hydrogen, wall-current analysis in positive column, (E/T), 24:8451
electric discharges in inhomogeneous electric and transverse magnetic fields, properties in, (E), 23:42265
electric discharges in low-density, collective interactions in, (E), 24:15297 (KHFTI-69-31)
electric discharges in low-density, collective interactions in high-current, (E), 24:45239(T) (AEC-tr-7165)
electric discharges in low-pressure hydrogen, potential breakdown in, (E), 25:59022
electric discharges in magnetic mirror confined, Penning, 21:31424 (NP-16805)

electric discharges in magnetized rare gas, rotation in, (E), 25:45469
electric discharges in mercury, lf helical waves in low-pressure, (E), 23:39502 (SU-IPR-300)
electric discharges in mercury—krypton, effect of striations on electron distribution in, 22:48115
electric discharges in neon, acoustic perturbations from rf, (E), 24:21788
electric discharges in neon, electron drift velocities in positive column, 24:45243
electric discharges in neon, electron energy distribution in, (E/T), 23:25307 (BMwF-FBK-69-3, pp 10.1-12)
electric discharges in neon, ionization layers in, (E), 23:23114
electric discharges in neon, ionization waves in, (E), 23:16804
electric discharges in nonuniform, hf breakdown in, (T), 22:24299
electric discharges in positive column, contraction of, (E), 24:1402
electric discharges in positive column, contraction in, (T), 24:1427
electric discharges in positive column, effects of volume recombination on contraction of, (T), 24:8465
electric discharges in pulsed xenon, absorption and emission properties in, (E/T), 24:35404
electric discharges in quasi-neutral, charge separation in, (T), 24:24005
electric discharges in rare gas, impurity effects on, (T), 23:39473
electric discharges in rare gas, nonequilibrium effects in stationary, (T), 25:1209
electric discharges in rare gas, pressure gradients in dc, (E), 24:3339
electric discharges in shock-ionized air, current measurements for, 21:23179 (ARL-66-0182)
electric discharges in sodium, temperature distribution in high-pressure, (E), 25:47521
electric discharges in solenoidal configuration of, properties of, 21:44050(R) (AD-651601)
electric discharges in toroidal, high-temperature, 22:50143 (IPP-6/67)
electric discharges in unbalanced, radial electric field effects on magnetomechanical properties of, 21:42112
electric discharges in water vapors, hydrogen and deuterium distribution in, (E), 24:12805
electric discharges in xenon, absorption of radiation in, (E), 24:23965
electric discharges in xenon, properties of electrodeless, (E), 23:20910
electric discharges in xenon, resistance of pulsed column, 23:10659
electric discharges in xenon, temperature effects on electric conductivity of, (E), 24:51649
electric discharges in, ambipolar diffusion in positive column, 21:46348
electric discharges in, amplification of microwave oscillations in, (E), 24:28260
electric discharges in, approach to quasi equilibrium in high-current glow, (E), 23:12811
electric discharges in, axial current analysis in Penning, (E), 24:12814
electric discharges in, axial pressure gradients in, (T), 24:3359
electric discharges in, capacitor simulator for pulsed, 22:34669
electric discharges in, cathode effects in positive column, (T), 23:42313
electric discharges in, collective interactions in, (E), 24:15296 (KHFTI-69-30)
electric discharges in, conference on, 21:20910
electric discharges in, current calculations for, 22:5367
electric discharges in, current—voltage characteristics in, 24:21790
electric discharges in, cyclotron echoes from positive column, 22:1272(R) (SU-IPR-198)
electric discharges in, density variations in, (E), 22:22157
electric discharges in, diffusion and instabilty in cold-cathode PIG, (E), 25:49893
electric discharges in, dispersion and stability of moving striations in, (E), 23:44411
electric discharges in, dispersion relations for moving striations in, (T), 21:25144
electric discharges in, distribution of ion densities in, (T), 25:3085 (LYCEN-7061)
electric discharges in, dust effects in positive column, (T), 24:12827
electric discharges in, dust-induced quenching of afterglow, (E), 24:32825
electric discharges in, effect of conducting wall on positive column, (E), 22:52818
electric discharges in, effect of temperature nonuniformity on positive column, (T), 25:27714
electric discharges in, effects of inelastic collisions in low-temperature, (T), 23:12837
electric discharges in, effects of volume recombination on, (E/T), 24:10522
electric discharges in, electrode sheath kinetics in, 22:44180
electric discharges in, electron and ion distribution in microwave and hf, (E), 22:19982
electric discharges in, electron density and potential measurements in PIG, 22:3024
electric discharges in, electron density and temperature effects on striation motion in, 21:31438
electric discharges in, electron energy distribution in positive column, (T), 23:42306
electric discharges in, electron energy distribution in moving striations in, (E), 25:47509
electric discharges in, electron energy distribution in striations in, 22:3063
electric discharges in, electron temperature determination in cold, (T), 23:46481
electric discharges in, electron velocities in low-pressure dc, (E), 23:44412

electric discharges in, electrophoresis in, (E), 24:3331 (AD-691007)
electric discharges in, energy balance equations and transport coefficients for nonthermal, (T), 25:1210
electric discharges in, energy balance in capillary, 22:41613
electric discharges in, energy balance in constricted high-power, (T), 24:47241
electric discharges in, energy conditions in hf unipolar, 23:6998
electric discharges in, energy-exchange in high-pressure, 22:39094
electric discharges in, field strength calculation for, 23:6997
electric discharges in, formation time in crossed fields, 24:31425 (UCRL-17448)
electric discharges in, frequency effects on properties of, 22:17696
electric discharges in, from concentric spherical electrodes, 22:11458
electric discharges in, ion current near center of hollow cathode, (E/T), 23:34405
electric discharges in, ion emission from, (E/T), 25:22500
electric discharges in, ionization and current growth in E x B, (E), 23:20907
electric discharges in, ionization nonequilibrium during cooling of pulsed, (T), 25:9462
electric discharges in, kinetic theory for collisional positive column, 25:1212
electric discharges in, maintenance by dc and hf waves, 25:14266
electric discharges in, motion processes in pulsed, (T), 22:9325
electric discharges in, neutron emission from noncylindrical rotating, 21:29318
electric discharges in, noise emission from electrodeless ring, 22:5324 (CONF-670810-6)
electric discharges in, noise emission in, 21:44108
electric discharges in, nonlinear effects in electron cyclotron resonance, (E), 22:19971 (NP-17361)
electric discharges in, nonlinear effects on resonance properties of, (E), 24:51651
electric discharges in, particle density profiles in, (E/T), 25:1190
electric discharges in, potential breakdown at rf energies, 24:8450
electric discharges in, potential breakdown in nonuniform fields, (T), 23:23131
electric discharges in, potential breakdown of, (E), 23:12802
electric discharges in, potential distribution in Penning, (E/T), 25:49884
electric discharges in, pressure buildup in magnetically stabilized, 22:5342
electric discharges in, propagation of microwave, (E/T), 25:52798
electric discharges in, properties in low-pressure spark, (E), 24:40062
electric discharges in, properties near electrodes, 23:10661
electric discharges in, properties of capillary, 25:33253
electric discharges in, properties of coaxial, (T), 24:17941
electric discharges in, properties of electron—ion, (E/T), 24:3322
electric discharges in, properties of rf plasmoid, 22:36939
electric discharges in, pseudowave reflection from potential barrier of gridded energy analyzer in, (E), 25:9531
electric discharges in, radial and axial emissions from spark channel, 23:3466 (BMwF-FBK-68-33)
electric discharges in, relative diffusion and recombination losses in negative glow, (E/T), 23:25311
electric discharges in, resonance loading in dc, (E/T), 23:42255
electric discharges in, rotation in hollow cathode reflex, 22:3079
electric discharges in, shock propagation from, (T), 24:17922 (NP-18067)
electric discharges in, sound pulses in low-pressure, 22:29514
electric discharges in, space-charge effects on hf, 22:3083
electric discharges in, striation formation with aligned magnetic fields, (T), 25:40652
electric discharges in, temperature effects on contraction in, 21:46354
electric discharges in, temperature effects on cyclotron resonance in, 21:31434
electric discharges in, theory for high-current positive column, 24:47234 (NP-18427)
electric discharges in, theory of cathode potential in glow, (T), 23:12855
electric discharges in, theory of positive column, 25:17171
electric discharges in, transition between resonances in hf, (E), 22:22180
electric discharges in, trapped electroacoustic waves in, (T), 22:13479
electric discharges in, upper existence limit for stratification in, (T), 23:42310
electric field and dispersion calculations for hot, inhomogeneous cylindrical, (T), 21:759(R) (AD-632541)
electric field calculation for low-pressure gas-discharge, (T), 21:792(R) (AD-629496)
electric field distribution around ion in one-component, Monte Carlo calculation of, (T), 23:16807 (CEA-R-3615)
electric field distribution in hot, joint probability calculation for, (T), 23:44433
electric field distribution in hydrogen arcs, with axial magnetic fields, (E), 25:3083

electric field effects on runaway electrons in, quasilinear theory for, 21:27160
electric field fluctuations in magnetized, conditions for enhancement of, (T), 23:8633
electric field fluctuations near body in, amplification of, (T), 24:1428
electric field in collision-dominated three-component, (T), 21:29235
electric field in collisionless magnetized, disturbance behind moving body of, (T), 24:39969
electric field interactions with bounded magnetized, penetration of, 21:15141
electric field measurements in, using Stark effect, 22:11419
electric field near charged spherical body in rarefied, (T), 24:8464
electric field penetration into limited magneto-, (T), 21:33449
electric field penetration into, solutions for specular and diffuse reflection and fractional accommodation for, (T), 23:12790
electric field potential behind spheres in rarefied, (E), 22:44009
electric fields in carotating, (T), 22:34146
electric fields in collisionless magneto-, (E/T), 21:15129 (NP-16478)
electric fields in dense astrophysical, Monte Carlo study of Stark, (T), 23:48605
electric fields in one-dimensional, correlation function for, (T), 22:15541
electric fields in, kinetic theory of, (T), 24:12821
electric fields in, short-range corrections to probability distribution of, (T), 24:10553
electric microfield distributions in, calculation using collective-coordinate technique, 22:26423
electric microfield distributions in, in presence of magnetic fields, (T), 24:6541
electric microfield distributions in, low-frequency component of, 22:9357
electric microfield distributions in, low-frequency, 22:39063 (N-68-12828)
electric potential breakdown in nonuniform electric fields, (T), 23:14803
electric potential distribution in collisionless, in weak magnetic fields, (T), 21:13586
electric potential in, calculation of floating, 21:9582
electric potential in, design of Langmuir probe for measuring, 22:45370
electric potential of photo-emitting plate in interplanetary, surface, (T), 25:27360
electric potential on rectangular mesh, computer simulation of, 23:1429 (LA-3990, pp D6.1-7)
electric properties for magnetohydrodynamic power generation, 21:7074
electric properties of metallic, (T), 21:2242
electrical fluctuations in argon—potassium nonequilibrium MHD, (E), 23:3454
electroacoustic resonance in mercury-vapor, surrounding metallic cylinder, (E), 22:52793
electrode immersion in, volt—ampere properties of cathode, (T), 25:3107
electrodes in, kinetic coefficient for electron reflection at interface of, 24:49170
electrodynamic theory for, Weber's mixed boundary-value problem in, 21:27155
electrodynamics of moving, 21:13569(R) (N-66-37577)
electromagnetic energy conservation law for moving, (T), 23:16700
electromagnetic field in cold anisotropic, with two-dimensional inhomogeneity, (T), 25:30533
electromagnetic field measurement techniques for, hf, 22:46120 (IPP-4/51)
electromagnetic field properties in unbounded compressible magneto-, (T), 21:765 (AD-636581)
electromagnetic field representation in cold lossy time-varying electron, decoupled Maxwell—Euler equations for, 24:15367
electromagnetic field representation in relativistic, by surface integral, 24:15320
electromagnetic fields in magneto-, antenna parameters from, 21:13570
electromagnetic induction in, properties of, 21:20959
electromagnetic radiation shielding in magnetic field by bounded slab, low-frequency, (T), 24:35504
electromagnetic waves in interstellar, polarization transfer in, (T), 24:10346
electromagnetic-wave propagation in cosmic, change of polarization in, (T), 23:14521
electromagnetic-wave propagation in inhomogeneous, asymptotic solutions for, (T), 23:23002
electromagnetic-wave propagation in stratified, equations for transient, (T), 25:24996
electromagnetic-wave propagation in two-component intense, effects on density and heating, (T), 25:30619
electron acceleration and scattering by magnetic-field inhomogeneities in moving, (T), 24:45070
electron acceleration by focused laser beams, single-cycle, (T), 25:40651
electron acceleration by local electron cyclotron resonance, (E), 23:34420
electron acceleration by microwaves in crossed fields at electron cyclotron resonant frequency, (E), 25:27698
electron acceleration in electric field-immersed, nonadiabatic theory for, 21:18734
electron acceleration in electron—cyclotron-heated, induced radioactivity from, (E), 24:51644
electron acceleration in interstellar, relativistic, (T), 23:51315
electron acceleration in theta pinches, (E), 25:1164
electron and ion acceleration by nonlinear waves in cosmic, (T), 21:5192
electron and ion scattering by carbon-12 in electron—helium, electromagnetic de-excitation from, 21:41740
electron and ion temperature calculations for fusion, 24:28339
electron balance equation for thermally inhomogeneous positive column, (T), 24:49175

electron beam equilibria in, E-layer, (T), 25:27798
electron beam equilibrium in toroidal, relativistic, (T), 25:33323
electron beam formation in bound, method for intense, 24:12836
electron beam in cold, negative mass instability of E-layer, (T), 25:27746
electron beam injection into dense, self fields and currents from relativistic, (T), 25:56166 (NP-19012)
electron beam interaction with collisionless discharge, thermal explosion from, (E/T), 25:43372
electron beam interaction with, excitation and control of relaxation oscillations during, (E/T), 25:40593
electron beam interactions and transmission in, relativistic, 25:25110
electron beam interactions at 17.7 keV, microwave radiations from, (E), 22:29511
electron beam interactions at 600 to 1500 eV, microwave radiations from, (E), 22:29497
electron beam interactions at finite temperatures, instabilities from, (E/T), 23:39456 (SU-IPR-297)
electron beam interactions in, 21:2192 (TID-23318, pp 127-72)
electron beam interactions in cold-cathode Penning discharges, radiations from, (E/T), 21:35153 (CEA-R-3081)
electron beam interactions in magnetic mirrors, instabilities from, (E), 24:30330
electron beam interactions in, finite length bound instabilities in, (T), 23:25361
electron beam interactions with argon, wave interactions from spiraling, (E/T), 24:42665
electron beam interactions with beam-generated, in plane diode configuration, (T), 25:40614 (N-71-17824)
electron beam interactions with bounded finite-temperature, dispersion properties of, (T), 23:36687
electron beam interactions with bounded magneto-, boundary conditions for, (T), 21:5283
electron beam interactions with bounded magneto-, energy losses in, (T), 22:39121
electron beam interactions with bounded, instabilities from relativistic, (T), 23:18641 (AD-672283)
electron beam interactions with bounded, relativistic, 23:8628
electron beam interactions with bounded, surface wave analysis for, (E/T), 23:39504 (SU-IPR-302)
electron beam interactions with bounded, wave excitation in, 21:15144
electron beam interactions with cavities of, lf modes for modulated, (E/T), 25:40618
electron beam interactions with cesium, microwave amplification in, 22:9322
electron beam interactions with cesium, oscillations from, (E/T), 24:3324
electron beam interactions with cold homogeneous, nonlinear, (T), 25:33274
electron beam interactions with cold magnetized, return current from relativistic, (T), 25:33275
electron beam interactions with cold, heating processes in, (E), 25:49871
electron beam interactions with cold, linear theory of, 24:8512
electron beam interactions with cold, wave interactions from, (T), 22:34657 (TID-24491, pp 131-6)
electron beam interactions with collisionless, dispersion relations for linear waves from, 25:56170
electron beam interactions with collisionless, energy transfer in, (T), 21:3835 (AD-641639)
electron beam interactions with collisionless, nonlinear development of wave instabilities from, (T), 24:42690
electron beam interactions with collisionless, nonlinear evolution of, (T), 25:40634
electron beam interactions with collisionless, nonlinear time evolution of, (T), 24:21801
electron beam interactions with collisionless, oscillations from, (T), 21:15170
electron beam interactions with collisionless, selective excitation of harmonics from double counterstreaming, (T), 24:12834
electron beam interactions with confined, instabilities from (T), 25:7401
electron beam interactions with cylindrical bounded, oscillations from, 23:3496
electron beam interactions with dense, collective slowing down of intense relativistic, (T), 25:14292
electron beam interactions with dense, collective deceleration of relativistic, (T), 25:33266(T) (ORNL-tr-2432)
electron beam interactions with density gradients in, one-dimensional, (T), 24:45264 (ORNL-4545, pp 9-37)
electron beam interactions with double-stream, instabilities in, (T), 25:36174
electron beam interactions with electron, Fokker—Planck analysis of relaxation in, 21:29281
electron beam interactions with electrostatic waves in, instabilities from, 22:50178
electron beam interactions with fast magneto-acoustic waves in, shf radiations from, (E), 24:40070
electron beam interactions with fast magnetoacoustic waves in, (E), 23:32386
electron beam interactions with finite, temporal and spatial growth of fluctuations from, (T), 24:35430
electron beam interactions with finite-amplitude waves in, theory for nonlinear relativistic, 24:35423
electron beam interactions with finite-beta, equilibrium of relativistic, (T), 25:11887 (NYO-4077-1, Paper 5)
electron beam interactions with helium, electron velocity distributions in, 23:8603
electron beam interactions with helium, spectra analysis for, (E), 24:21780 (UCRL-50002-69, pp 151-67)
electron beam interactions with homogeneous cold, theory for cylindrical, (T), 23:32415 (SU-IPR-275)
electron beam interactions with homogeneous cold, (E/T), 23:32369 (SU-IPR-276)
electron beam interactions with homogeneous, dispersion relations for linear waves from, (T), 25:56169
electron beam interactions with hydrogen magneto-, properties from, (E), 22:39122
electron beam interactions with hydrogen, ion cyclotron harmonics for perpendicularily injected, (E), 23:39465
electron beam interactions with hydrogen, ion heating in, (E), 25:3054 (CEA-CONF-1611)
electron beam interactions with hydrogen, stationary distributions from, (T), 24:49165
electron beam interactions with inhomogeneous finite, quasi-linear relaxation of, 24:3372
electron beam interactions with inhomogeneous, electrostatic wave propagation and amplification in, (T), 24:3376
electron beam interactions with inhomogeneous, electron—ion oscillations from, (E), 25:30506(T) (MATT-Trans-84)
electron beam interactions with inhomogeneous, instabilities from, (T), 24:17961
electron beam interactions with inhomogeneous, oscillations from, (T), 25:17183
electron beam interactions with inhomogeneous, oscillations from relativistic, (T), 23:12836
electron beam interactions with inhomogeneous, quasi-linear relaxation in, (T), 23:46471(T) (NP-tr-1837)
electron beam interactions with inhomogeneous, quasilinear relaxation in, (T), 23:42319
electron beam interactions with inhomogeneous, theory for weak, 23:42321
electron beam interactions with inhomogeneous, transformation of waves and electron heating in, (T), 24:3367
electron beam interactions with inhomogeneous, wave transformation and absorption in, (T), 23:25408
electron beam interactions with layered dielectrics and, resonance propagation in, 21:16950
electron beam interactions with layered, radiation spectra from, 21:3854
electron beam interactions with magnetic-mirror confined, heating processes in, (E/T), 24:6509 (NP-18059)
electron beam interactions with magnetically confined inhomogeneous, phase velocity and growth rate of instability modes in, (T), 24:28365
electron beam interactions with magnetized, Bernstein mode excitation in, (E), 25:25179
electron beam interactions with magnetized, characteristic oscillations from, (T), 24:1430
electron beam interactions with magnetized, electron—ion oscillations from, (E), 25:30505(T) (MATT-Trans-83)
electron beam interactions with magnetized, electron scattering by electrostatic fluctuations in, (E), 25:27699
electron beam interactions with magnetized, excitation of characteristic oscillations in, (T), 24:1431
electron beam interactions with magnetized, excitation of Bernstein modes in, (E), 24:30331
electron beam interactions with magnetized, instabilities from, (E/T), 23:18616
electron beam interactions with magnetized, microwave emission from, (E), 25:47524
electron beam interactions with magnetized, radiations from relativistic, (T), 23:10636
electron beam interactions with magnetized, rotational effects of, (E), 25:47527
electron beam interactions with magneto-, coherent Cherenkov radiation from, (T), 25:22526
electron beam interactions with magneto-, instabilities from, 22:46173
electron beam interactions with magneto-, instabilities from, (E), 22:17650
electron beam interactions with magneto-, oscillations from, 21:35165 (IPP-2/61)
electron beam interactions with magneto-, oscillations from, (T), 22:19977
electron beam interactions with magneto-, oscillations from, (T), 22:22146 (NP-17389)
electron beam interactions with magneto-, oscillations from, (T), 23:14799
electron beam interactions with magneto-, suppression of Bernstein waves in, (E), 25:22514
electron beam interactions with magnetoactive, wave excitation from inhomogeneous, (T), 24:40092
electron beam interactions with Maxwellian, dispersion relations for hf, (E/T), 24:10517 (N-70-11397)
electron beam interactions with Maxwellian, nonlinear processes in, (T), 24:49145 (COO-2059-2)
electron beam interactions with Maxwellian, temperature effects on hf, (T), 24:21799
electron beam interactions with mercury, instabilities from slow, (E), 25:9447
electron beam interactions with mercury, transverse modulation effects on, (E), 22:1198
electron beam interactions with mercury-discharge, properties from transverse modulated, 21:37454 (SU-IPR-141)
electron beam interactions with mirror-confined hydrogen, ion heating in, (E), 21:18623
electron beam interactions with mirror-confined neutral streams, ionization in, 25:3113
electron beam interactions with mirror-confined, electron heating in, (E), 24:8432
electron beam interactions with mirror-confined, heating in, 24:47189(T) (AEC-tr-7160)
electron beam interactions with mirror-confined, heating in, 21:20921
electron beam interactions with mirror-confined, instabilities from, (E/T), 23:10650
electron beam interactions with mirror-confined, wall potential effects on, (E), 23:23125
electron beam interactions with neutral gas, turbulence from, (T), 25:9455 (AD-705265)
electron beam interactions with nitrogen, collision wave structure in, 22:9377
electron beam interactions with nonisothermal, Langmuir wave decays in, 22:3057
electron beam interactions with nonlinear process in, (E), 22:39071 (N-68-19962)
electron beam interactions with oscillations in homogeneous, (T), 25:52827
electron beam interactions with potassium, oscillations from, 22:13458
electron beam interactions with preformed decay, nonlinear stabilization of beam instability in, (E), 25:3126
electron beam interactions with quiescent, multiple scattering and energy loss of test, 24:49127
electron beam interactions with slow waves in waveguides, effect of inhomogeneities on, (T), 25:36234
electron beam interactions with suppression of longitudinal electron oscillations by beam modulation, (E), 25:27702
electron beam interactions with surface waves in, amplification in, (T), 23:32414 (SU-IPR-266)
electron beam interactions with surface waves of, properties of, 22:46168
electron beam interactions with turbulent, microwave radiations from, (E), 24:1397
electron beam interactions with uniformly magnetized, electron heating in, (E), 23:12752
electron beam interactions with waveguide, transformation of longitudinal into transverse energy in cyclotron, 25:3080
electron beam interactions with waveguides filled with, 22:3068
electron beam interactions with weakly ionized, energy relaxation from cathode, 22:5353
electron beam interactions with whistlers in, (E), 22:24277 (MATT-Q-25, pp 166-82)
electron beam interactions with, absorption of waves in, 22:17649
electron beam interactions with, amplification in, 21:13550 (AD-639057)
electron beam interactions with, amplification in, 21:46352
electron beam interactions with, amplification in, 21:46372
electron beam interactions with, amplification in, 22:3121
electron beam interactions with, amplification in, 22:5340
electron beam interactions with, amplification in, 23:3498
electron beam interactions with, amplification of uhf radiations from, (E), 24:5163
electron beam interactions with, anomalous scattering and phase focusing of modulated, (T), 23:51653
electron beam interactions with, beam distribution functions for, 25:17156
electron beam interactions with, beam energy spread and radiations from, (E), 22:31806 (ORNL-4238, pp 67-104)
electron beam interactions with, Bernstein wave excitation in, (E), 25:56241
electron beam interactions with, boundary effects on instabilities from, (T), 23:48899 (AD-690128)
electron beam interactions with, Cherenkov coupling for amplification in, (T), 21:768
electron beam interactions with, Cherenkov coupling for amplification in, 21:769
electron beam interactions with, coherent domains in parameter spaces inherent in, (E), 21:37463
electron beam interactions with, coherent radiations from, (E), 24:3350
electron beam interactions with, collision processes from relativistic, (T), 25:45472 (NP-18942)
electron beam interactions with, collisionless relaxation of ultra-relativistic, (E/T), 25:38414 (CONF-710607-68)
electron beam interactions with, collisionless thermalization in, (E), 23:36674
electron beam interactions with, comparison of wave growth in, (E/T), 24:8511
electron beam interactions with, computer model of, 22:9308 (TID-24203, pp 73-134)
electron beam interactions with, computer program for analyzing, 24:35414 (SC-RR-70-314)
electron beam interactions with, computer simulation of, 21:44066 (NASA-SP-153, pp 217-35)
electron beam interactions with, conference papers on, 24:8424
electron beam interactions with, coupled-mode description of, (T), 24:10539
electron beam interactions with, critical current problem in relativistic, 24:42679(T) (UCRL-Trans-10470)
electron beam interactions with, critical currents of relativistic, 24:28248 (NP-18233)
electron beam interactions with, current density calculation for, 25:14321
electron beam interactions with, current-convective instabilities from, 22:7276(T) (UCRL-Trans-10149)
electron beam interactions with, current-convective instability in, 22:13522
electron beam interactions with, cyclotron harmonic noise from, 21:46373
electron beam interactions with, decay of, 22:5348
electron beam interactions with, density decay and oscillations from, (E/T), 22:34654 (TID-24491, pp 118-22)
electron beam interactions with, dispersion relations for excited waves in, 24:45296
electron beam interactions with, dispersion relations for low-density, 22:41596
electron beam interactions with, dispersion relations for, 21:20955
electron beam interactions with, distribution functions for, (E), 23:34415
electron beam interactions with, distribution function for, (T), 24:37464
electron beam interactions with, Doppler shifts at cyclotron frequency in, (E), 25:58997

electron beam interactions with, dynamic effects of high nu/gamma, (E), 24:51641 (AD-708032)
electron beam interactions with, E-layer precession in, (T), 25:11925 (NYO-4077-1, Paper 2)
electron beam interactions with, effect of collisions on instability in, (E/T), 25:9494
electron beam interactions with, effect of electron collisions on instabilities in, (E/T), 25:22499
electron beam interactions with, effects of pair scattering on stability of, (T), 23:51703
electron beam interactions with, electroacoustic waves from, (T), 22:24326
electron beam interactions with, electromagnetic wave production in, (E), 23:18639(P)
electron beam interactions with, electromagnetic wave excitation by relativistic, (T), 25:49931 (NP-18982)
electron beam interactions with, electron acceleration at beam instability, (E), 23:34417
electron beam interactions with, electron acceleration in, (E), 23:46468
electron beam interactions with, electron cyclotron instabilities and hf ionization in, (E), 23:23124
electron beam interactions with, electron cyclotron radiations from, 21:15126 (IPP-2/53)
electron beam interactions with, electron heating and turbulence in, (E), 24:35375
electron beam interactions with, electron heating in, (E), 23:46450 (CEA-CONF-1313)
electron beam interactions with, electron heating in, (T), 22:17659
electron beam interactions with, electron heating in, (E/T), 23:12911
electron beam interactions with, electron heating by, (E), 25:36118
electron beam interactions with, electron oscillations from, (E), 21:7257
electron beam interactions with, electrostatic oscillations from, 21:27218
electron beam interactions with, energetic ion emission from, (E), 24:12803
electron beam interactions with, energy loss from, (T), 21:16937
electron beam interactions with, energy loss in, (E), 21:3841(T) (AD-639428)
electron beam interactions with, energy losses in, 21:33457
electron beam interactions with, equilibrium and stability of intense relativistic, (T), 24:28295
electron beam interactions with, excitation of Bernstein modes in, (E/T), 22:52819
electron beam interactions with, excitation of electromagnetic waves in, (T), 25:36235
electron beam interactions with, excitation of hf oscillations in, (E), 23:27622
electron beam interactions with, excitation of ion cyclotron harmonic waves in, (E), 22:22185
electron beam interactions with, excitation of lf oscillations and control of two-stream instabilities in, (E), 24:12809
electron beam interactions with, excitation of nonlinear waves in, (T), 25:52872
electron beam interactions with, excitation of surface oscillations in, (E), 23:32410
electron beam interactions with, excitation of surface modes in, (E), 23:44406 (AD-686374)
electron beam interactions with, excitation of whistler modes in, (E), 23:25322
electron beam interactions with, fast beam-switching gun for, 23:39459 (D-1-82-871)
electron beam interactions with, fine structure of distribution function for, (E), 25:1193
electron beam interactions with, fine structure of distribution function for, (E), 25:52811
electron beam interactions with, finite amplitude electrostatic waves from nonlinear, (T), 25:43365
electron beam interactions with, finite Moliere scattering in, (T), 25:45471 (AD-874659)
electron beam interactions with, finite-geometry effects on nonlinear development of, (T), 24:17928
electron beam interactions with, finite-temperature relativistic, (T), 25:22530
electron beam interactions with, flute-like instabilities from relativistic, (T), 24:35463
electron beam interactions with, frequency multiplication in, 22:46141(R) (N-68-25551)
electron beam interactions with, frequency reduction factors for, (T), 23:25353
electron beam interactions with, growth and damping of wave—particle interactions in, (E), 24:15305
electron beam interactions with, gun design for, 24:3330 (AD-690791)
electron beam interactions with, harmonic current generation and multi-signal effects in, (T), 23:27636
electron beam interactions with, harmonic generation in, (E/T), 23:27617(R) (N-69-10968)
electron beam interactions with, heating and enhanced diffusion in, (E), 24:6507 (AD-693807)
electron beam interactions with, heating from modulated, 21:13531 (ORNL-4063, pp 36-70)
electron beam interactions with, heating in linear discharges, (E), 24:28262
electron beam interactions with, heating in open traps, (T), 24:12783
electron beam interactions with, heating mechanism of, 23:51593
electron beam interactions with, hf instabilities from, (E), 22:17711
electron beam interactions with, hf instability threshold in, (E), 24:28267
electron beam interactions with, hf oscillations in, (E), 24:1398
electron beam interactions with, hf wave production in, (E), 23:18640(P)
electron beam interactions with, highly ionized ion production by relativistic, (E), 25:27694 (WASH-1159, pp 184-9)
electron beam interactions with, hyperfrequency parametric amplification in, 24:47259
electron beam interactions with, in magnetic mirrors, production kinetics and oscillations in, (E), 23:39464
electron beam interactions with, in uniform magnetic fields, fast neutron fluxes from, (E), 24:49135
electron beam interactions with, induced current from relativistic, (T), 25:11894
electron beam interactions with, inhomogeneity effects on relaxation of ultrarelativistic, (T), 25:9472
electron beam interactions with, instabilities from, (E/T), 21:2279
electron beam interactions with, instabilities from, 21:15201
electron beam interactions with, instabilities from, (E), 23:1457
electron beam interactions with, instabilities from, 23:23177
electron beam interactions with, instabilities from, (T), 21:16943
electron beam interactions with, instabilities from, 21:11633(R) (SU-IPR-124)
electron beam interactions with, instabilities from hf, (T), 24:1406 (SU-IPR-327)
electron beam interactions with, instabilities from double, (T), 23:12852
electron beam interactions with, instabilities from, (E), 24:23966
electron beam interactions with, instabilities from, 21:27216
electron beam interactions with, instabilities from spiraling, 22:46144 (TID-24666, pp 96-102)
electron beam interactions with, instabilities from, 22.5371
electron beam interactions with, instabilities from nonlinear, (T), 25:14296
electron beam interactions with, instabilities from, 22:48117
electron beam interactions with, instabilities from, 21:9621
electron beam interactions with, instabilities from, (E/T), 25:17151
electron beam interactions with, instabilities near ion frequency, (E/T), 24:40063
electron beam interactions with, instabilities near electron cyclotron harmonics in, 22:44181
electron beam interactions with, instabilities near electron cyclotron harmonics, (E), 23:34421
electron beam interactions with, instability onset in, 21:9632
electron beam interactions with, interactions of microwave and lf oscillations in, (E), 24:3343
electron beam interactions with, ion acceleration in, (E), 25:27696 (WASH-1159, pp 204-18)
electron beam interactions with, ion cyclotron resonance excitation in, x-ray spectra from, and properties in minimum-B fields, 21:29226 (TID-23827, pp 141-216)
electron beam interactions with, ion emission from, 21:33448
electron beam interactions with, ion emission from, (E), 25:30255 (EUR-4593, pp 67-74)
electron beam interactions with, ion energy measurements in, 22:34594 (TID-24491, pp 111-16)
electron beam interactions with, ion heating and lf instabilities in, (E), 24:51613
electron beam interactions with, ion heating control by feedback system, (E/T), 24:47193
electron beam interactions with, ion heating during development of hf instabilities, (E), 25:5073
electron beam interactions with, ion heating from modulated, (E/T), 24:49104(R) (UCB-34-P-128-15)
electron beam interactions with, ion heating in, (T), 25:19650
electron beam interactions with, ion momentum analysis from, (E), 25:27697 (WASH-1159, pp 219-26)
electron beam interactions with, ion oscillations in, (T), 25:47534
electron beam interactions with, ion oscillations from, (E), 23:25328
electron beam interactions with, ion oscillations from, (E/T), 22:24349
electron beam interactions with, ion production in, (E), 25:27695 (WASH-1159, pp 196-203)
electron beam interactions with, ion wave excitation in, (E), 22:26416
electron beam interactions with, ion—acoustic interactions in, 25:1252
electron beam interactions with, ion-acoustic wave excitation in, (E), 25:1247
electron beam interactions with, ion-cyclotron resonance excitation in, (E/T), 21:39972 (TID-23971, pp 123-212)
electron beam interactions with, ion-wave amplification in, (T), 25:7428
electron beam interactions with, ion-wave excitation in, (E), 25:14378
electron beam interactions with, ionization instabilities from relativistic, (E), 25:47519 (AD-717399)
electron beam interactions with, Landau damping and relation to inviscid shear flow, (T), 24:15370
electron beam interactions with, lectures on, 21:37493
electron beam interactions with, lf and hf oscillations from, (E), 22:11451
electron beam interactions with, limitations on ion and electron heating in, 24:45220 (ORNL-4545, pp 72-103)
electron beam interactions with, linear and nonlinear theory for, 24:35484(R) (SU-IPR-357)
electron beam interactions with, longitudinal oscillations from, (T), 21:16949
electron beam interactions with, longitudinal wave reflection in, (T), 25:56247
electron beam interactions with, longitudinal wave excitation in, (T), 24:3373
electron beam interactions with, longitudinal wave excitation in, (T), 25:56232 (NP-19020)
electron beam interactions with, low- and high-frequency instabilities from, 21:35201 (CONF-670104-Pt.2, pp 447-59)
electron beam interactions with, low-frequency waves from, 21:40031
electron beam interactions with, method for injecting, (E), 23:36676
electron beam interactions with, microwave amplification in, 21:18658(R) (AD-640372)
electron beam interactions with, microwave diagnostics of oscillations from, 21:11609(R) (NP-16471)
electron beam interactions with, microwave emission from, (T), 25:33345
electron beam interactions with, microwave oscillations from, (E), 24:1401
electron beam interactions with, microwave oscillations from, (E), 22:34703
electron beam interactions with, microwave radiations from high-current relativistic, (E), 25:22509
electron beam interactions with, microwave scattering from unstable electron waves in, (E), 25:33346
electron beam interactions with, microwave scattering on fluctuations in, (E), 23:48891
electron beam interactions with, millimeter wave production in, 22:41618
electron beam interactions with, mode analysis for crossed-field amplifiers, 21:7269
electron beam interactions with, mode coupling in, (E), 24:23967
electron beam interactions with, modulated relativistic, (E/T), 25:40628
electron beam interactions with, multi-velocity stream formation in nonlinear, (E), 25:25114
electron beam interactions with, noise levels of Langmuir oscillations from, (E), 25:56249
electron beam interactions with, nonlinear effects of nonrelativistic and relativistic, (E), 25:38419 (CONF-710607-57)
electron beam interactions with, nonlinear effects and turbulent behavior in, (E), 23:23112
electron beam interactions with, nonlinear effects from, 21:40032
electron beam interactions with, nonlinear hydromagnetic instabilities from, (T), 22:19964 (JINR-P9-3690)
electron beam interactions with, nonlinear instabilities in, (T), 23:46493 (CEA-CONF-1308)
electron beam interactions with, nonlinear interaction of oscillations in, (T), 22:13491
electron beam interactions with, nonlinear interaction of Bernstein waves in, (E), 25:25189
electron beam interactions with, nonlinear limitation of two-stream instability in, (E), 25:22508
electron beam interactions with, nonlinear oscillations from relativistic, (T), 23:51659
electron beam interactions with, nonlinear perturbations and electron scattering in, (E), 25:27703
electron beam interactions with, nonlinear phenomena in, 21:15177
electron beam interactions with, nonlinear processes in, (T), 24:1420
electron beam interactions with, nonlinear processes in, (T), 24:1419
electron beam interactions with, nonlinear processes in, (E/T), 24:3418(R) (SU-IPR-336)
electron beam interactions with, nonlinear properties of one-dimensional, (T), 25:27710
electron beam interactions with, nonlinear radial self-focusing in, (T), 23:48911
electron beam interactions with, nonlinear theory of, 23:32420
electron beam interactions with, nonlinear theory for electron oscillations in, (T), 25:9469
electron beam interactions with, nonlinear theory for monochromatic wave excitation in, 25:14311
electron beam interactions with, nonlinear wave excitation in, (T), 24:19925
electron beam interactions with, oscillations at ion—ion hybrid frequencies, (E), 24:3336
electron beam interactions with, oscillations from, 21:15154
electron beam interactions with, oscillations from, 22:41580
electron beam interactions with, oscillations from, 23:3505
electron beam interactions with, oscillations from, 22:7290
electron beam interactions with, oscillations from, (E), 21:33404 (NASA-CR-819)
electron beam interactions with, oscillations from, (E), 21:16939
electron beam interactions with, oscillations from, (E/T), 22:22148 (TID-24331, pp 167-209)
electron beam interactions with, oscillations from, (T), 21:20968
electron beam interactions with, oscillations from, (T), 21:16945
electron beam interactions with, parametric amplification in, 22:7288
electron beam interactions with, particle acceleration in, 23:3497
electron beam interactions with, plasma density effects on relativistic, (T), 24:17937
electron beam interactions with, potential distribution from, (E), 21:7263
electron beam interactions with, propagation of high-current relativistic, (T), 24:35427
electron beam interactions with, properties of relativistic, 25:17166 (AD-713576)
electron beam interactions with, properties of, (T), 24:35415
electron beam interactions with, quantum electrodynamics for, 21:5273 (UCRL-50148)
electron beam interactions with, quasi-linear dynamics from, 21:5300
electron beam interactions with, quasi-linear equations for, 25:36142

electron beam interactions with, quasi-linear theory for two-body collisions, 24:15330
electron beam interactions with, radial self-focusing in, (T), 23:27639
electron beam interactions with, radiations from unstable waves in, (E), 25:30510
electron beam interactions with, radiations from, (E), 21:7212 (TID-23459, pp 65-77)
electron beam interactions with, relativistic beam equilibria with back currents, (T), 24:49182
electron beam interactions with, relativistic, (T), 22: 29509
electron beam interactions with, relaxation processes in, (E), 25:27700
electron beam interactions with, research in USSR, 22: 1130
electron beam interactions with, research on, 21:27148 (TID-23760, pp 141-69)
electron beam interactions with, research on, 22:19962 (IPPCZ-91)
electron beam interactions with, research on, 22: 50126(R) (EUR-CEA-FC-352)
electron beam interactions with, research on relativistic, (E/T), 23:44403(T) (AEC-tr-7061)
electron beam interactions with, research on, (E/T), 22: 26349(R) (IPPCZ-72)
electron beam interactions with, research on, (T), 25: 5125(R) (SU-IPR-389)
electron beam interactions with, resonance heating of electrons in, (E), 24:10525(T) (AEC-tr-7107)
electron beam interactions with, resonant resistive instabilities from, 22:7278
electron beam interactions with, response to relativistic, (T), 25:52823
electron beam interactions with, reversibility and damping of double beam instabilities in, (E/T), 24: 1446
electron beam interactions with, reversibility of Vlasov equation for, 21:2260
electron beam interactions with, rf amplification in, (E/T), 24:15292
electron beam interactions with, rf oscillations from, 21: 39972 (TID-23971, pp 123-212)
electron beam interactions with, slipping-stream instability analysis in, (T), 24:49189
electron beam interactions with, slipping-stream instability analysis in, (T), 24:49190
electron beam interactions with, small-amplitude oscillations from, (T), 25:33271
electron beam interactions with, spectra from, (E), 24: 6547
electron beam interactions with, stability of inhomogeneous relativistic, (T), 24:3401
electron beam interactions with, stability of nonlinear waves from counter-streaming, (T), 24:42739
electron beam interactions with, stability of relativistic, 25:36169
electron beam interactions with, stabilization of two-stream instabilities in, (E), 24:26226
electron beam interactions with, stochastic acceleration from nonlinear, (T), 25:11885 (NYO-4077-1, Paper 3)
electron beam interactions with, stochastic acceleration in, (T), 24:47267 (NYO-3782-4, App.13)
electron beam interactions with, structure of rf oscillations from, (T), 24:37474
electron beam interactions with, structure of two-stream oscillations from, 24:47288
electron beam interactions with, surface instabilities from, (T), 23:25356
electron beam interactions with, surface wave propagation and amplification in, (E/T), 24:8508
electron beam interactions with, surface waves from, (T), 21:18706
electron beam interactions with, symmetric and transverse modulation for, 21:11632 (SU-IPR-114)
electron beam interactions with, synchrotron instabilities from relativistic, (T), 22:22176
electron beam interactions with, theory for, 21:29226 (TID-23827, pp 141-216)
electron beam interactions with, three-stage instability from, (E), 22:3138
electron beam interactions with, three-wave interactions from, (T), 25:43407 (N-71-18696)
electron beam interactions with, threshold of hf instabilities from, (E/T), 24:45236(T) (AEC-tr-7159)
electron beam interactions with, threshold of hf instabilities from, (E/T), 24:12799 (NP-18102)
electron beam interactions with, time behavior of electron temperature in, (E), 23:32403
electron beam interactions with, transition radiation from, (T), 25:22525
electron beam interactions with, transverse modulation in, 21:13551 (AD-639210)
electron beam interactions with, transverse modulation in, 22:7286
electron beam interactions with, turbulent ion heating in, (T), 24:45264 (ORNL-4545, pp 9-37)
electron beam interactions with, two-rotating-stream instabilities from, (T), 25:40669
electron beam interactions with, two-stream instabilities in, (T), 23:51694
electron beam interactions with, two-stream instability in, (T), 22:41570 (ORO-3458-13)
electron beam interactions with, wave electrodynamics of, (T), 23:12819 (NP-17757)
electron beam interactions with, wave excitation and transformations in, (T), 25:38429 (CONF-710607-61)
electron beam interactions with, wave excitation and growth in, (E), 24:8502
electron beam interactions with, wave excitation in, (E/T), 23:7003
electron beam interactions with, wave excitation in, (E), 24:15300
electron beam interactions with, wave excitation in, (E), 23:32388
electron beam interactions with, wave growth from, (T), 25:3157
electron beam interactions with, wave growth in, (T), 22:34658 (TID-24491, pp 137-40)
electron beam interactions with, wave interactions from nonrelativistic, 21:37441 (AFCRL-67-0375)
electron beam interactions with, wave interactions in nonrelativistic, 22:39072 (N-68-20825)
electron beam interactions with, wave interactions from, (T), 22:24337
electron beam interactions with, wave propagation from, (T), 21:23178 (AD-644695)
electron beam interactions with, waves from, (T), 22: 44115 (NP-17582)
electron beam interactions with, weak, (T), 23:14776
electron beam probing of, echo method for diagnostics of, 24:26154
electron beam propagation in, nonlinear wave excitation in relativistic, (T), 24:37523
electron beam repelling by local electron cyclotron resonance in magnetic mirrors, (E), 24:42669
electron beam runaway in toroidal, formation and properties of, (E), 23:27625
electron beam self-focusing in, relativistic, 21:761 (AD-634634)
electron beam stability calculations in betatrons, (T), 23: 32483
electron beams for research in, production of intense, 25:30254 (EUR-4593, pp 59-65)
electron beams in, coherent acceleration of protons by electric fields of, 21:13748 (CONF-650923-32)
electron beams in, qualitative streamer theory for, (T), 23:18650
electron beams interactions with, harmonic generation and turbulencelike spectrum in, 21:42033
electron behavior in collision-dominated weakly ionized positive column, (T), 23:1454
electron blanket production in magnetic mirror, method for energetic, 21:27205(P)
electron cloud dispersion in collisionless, quasi-neutral inhomogeneity in, (T), 25:52819
electron cloud injection into cylindrical afterglow, diffusion and thermalization of, (T), 25:38440
electron clouds in magnetic fields, electrostatic equilibrium of, (T), 22:24307
electron collision frequency in impact-ionized nitrogen, effects of impact velocity on, (E/T), 24:28259
electron collisions with beryllium-like ions in, excitation-rate coefficients for, (E), 25:52804
electron concentration in, measurement by broadened hydrogen lines of, 22:3028
electron confinement in toroidal apparatus, (E/T), 22: 44199(R) (NYO-3863-8)
electron cooling in, laser properties from, 21:14957
electron current in moving, thermal emission, 21:5293
electron cyclotron damping in microwave emission along magnetic field, (E/T), 23:25409
electron cyclotron echo trains in, single-particle collisional theory of, 21:37469
electron cyclotron resonance interactions in, spectral resolution of far-infrared radiation from, 24:42672
electron cyclotron resonance line formation by negative absorption in, (T), 23:42299
electron cyclotron resonance multipacting in microwave cavities, (E), 23:36678
electron decay in diffusion and recombination controlled afterglow, 22:50174
electron densities in stellar, upper limit on free, (T), 23: 20592
electron densities in, design of microwave probe for measuring, 23:14759
electron densities in, microwave measurements using complex reflection coefficient, 22:44104
electron density and collision frequency in afterglow, 22: 20022
electron density and collision frequency in varying magnetic fields, (T), 25:14315
electron density and pressure variations in active region of hollow-cathode discharges, (E/T), 25:33224
electron density and temperature elevation of potassium-seeded, by laser pumping, (T), 24:15311
electron density and temperature in h-f discharge, measurement using Langmuir probe, (E), 21:23534(R) (ANL-7246)
electron density decay in mercury afterglow, free-fall theory for, (T), 23:16825
electron density distribution in waveguide filled with, 21:31408
electron density fluctuations and diffusion in weakly ionized, microscopic theory of, 25:19686
electron density fluctuations in, effects on plasma resonances, 22:48133
electron density in arcs, effects of cathode vapors on, (E) , 23:1394
electron density in circumsolar, from pulsar translucing, (E/T), 25:4920(T) (CSIRO-Trans-9897)
electron density in fission-fragment-generated, prediction, 23:1230 (AD-670469)
electron density in helium, effect of optical orientation of helium-4 atoms on, (E), 23:32411
electron density in hydrogen, use of double microwave interferometer for measuring decay of, 23:4860
electron density in nonequilibrium, (T), 25:9435
electron density in, determination by extreme resolved line number, (T), 24:17565
electron density in, effects of solid particles on, 24: 47061
electron density in, formed by fast electron beam, 22: 44102
electron density in, interferometric—spectrographic method of measurement of, 22:5322
electron density inhomogeneities in, effect of initial conditions on, (T), 25:52821
electron density measurement in dense transient, using far-infrared laser interferometer, 23:3458
electron density of relativistic electron-beam-produced, interferometric measurements, 24:51624
electron diffusion coefficient in thermal radiation field in, (T), 21:25138
electron diffusion in magneto-, method for inducing selective, (T), 24:23978
electron diffusion in, (T), 21:16917
electron diffusion in, higher-order thermal, (T), 25:1203
electron diffusion velocity in, under influence of crossed electric and magnetic fields, (T), 21:46339
electron distribution function and atomic state densities in, self-consistent analysis of, 22:24346
electron distribution function at cyclotron resonance, (T), 24:32819
electron distribution function deformation under influence of large-amplitude wave, (E), 25:59012 (CEA-CONF-1833)
electron distribution function for cesium discharge, (T), 23:44436
electron distribution function for collision-dominated positive column, (T), 22:41603
electron distribution function for discharge, effects of diaphragm on, (T), 25:9471
electron distribution function for electric field-immersed, collisional effects on, (T), 22:26408
electron distribution function for fully ionized, in steady magnetic fields, (T), 25:19691
electron distribution function for helium discharge, (T), 23:42305
electron distribution function for inhomogeneous partially ionized, 22:52789
electron distribution function for Lorentz, (T), 25:56173
electron distribution function for Lorentz, resolution of Boltzmann equation for, 22:19975
electron distribution function for Lorentzian, anisotropies and harmonics of, (T), 22:26417
electron distribution function for Lorentzian, in varying electric fields, (T), 22:24287
electron distribution function for low-temperature, (T), 25:36134
electron distribution function for low-voltage cesium discharge, (E), 24:3349
electron distribution function for molecular discharge, (T) , 22:3085
electron distribution function for molecular, effects of inelastic collisions on, (T), 24:8463
electron distribution function for nonequipartition, 22: 11465
electron distribution function for nonequipartition, in strong electric fields, (T), 23:48913
electron distribution function for partially ionized, calculation of, (T), 22:24323
electron distribution function for partially ionized moving, (T), 23:30556
electron distribution function for weakly ionized time-varying, generalized electron cyclotron resonance, (T), 23:32418
electron distribution function for weakly ionized, in time-dependent electric and magnetic fields, (T), 22:34671
electron distribution function for, calculation of, (T), 23: 25335 (BMwF-FBK-69-3, pp 2.1-25)
electron distribution function for, collision effects on, 21:40025
electron distribution function for, effect of electrostatic wave damping on, (E), 25:27823
electron distribution function for, effects of large-amplitude electron wave on, (E), 25:33259
electron distribution function in arbitrary time-dependent electromagnetic fields, (T), 25:9470
electron distribution function in discharge, effects of diaphragm on, (E), 23:25319 (BMwF-FBK-69-3, pp 8.1-11)
electron distribution function in Lorentz, in two-frequency electromagnetic fields, (T), 23:23144
electron distribution function in Tokamak, (E), 22: 19938(T) (NP-tr-1624)
electron distribution function measurement in toroidal octupoles, (E), 25:11872
electron distribution function of discharge, effects on microwave emission and hf conductivity of, (E/T), 23: 18615
electron distribution function of Lorentzian, in frequency-modulated electric field, (T), 23:51615
electron distribution function of Lorentzian, when crossed by progressive transverse wave, (T), 24:3369
electron distribution functions for homogeneous, 22: 48084
electron distribution functions for Lorentzian, (T), 24: 26204
electron distribution functions for weakly ionized, (T), 23:46469 (MATT-640)
electron distribution functions for weakly ionized, (T), 24:10550
electron distribution functions in grid region of three-electrode hydrogen arc, density, (E), 23:25318 (BMwF-FBK-69-3, pp 7.1-9)
electron distribution in electrode sheath of weakly ionized, effect of inelastic collisions on, (E), 25:22518
electron distribution in hf argon discharges, energy, (E), 23:25317 (BMwF-FBK-69-3, pp 5.1-8)
electron distribution in mirror-confined hot-electron, bremsstrahlung measurements for, 25:47525
electron distribution in Townsend discharges, (T), 23: 25338 (BMwF-FBK-69-3, pp 14.1-7)
electron distribution in, non-Maxwellian equilibrium of, (T), 24:21798
electron distribution in, self-consistent Astron E layer, 22:7302
electron drift velocities in hydrogen, in crossed magnetic fields, (T), 24:5170
electron drift velocity and mean free path in, (E/T), 22: 17638
electron drift velocity in dense, electric and magnetic field effects on, (T), 21:18726
electron drift velocity in, solution of equation governing initial distribution function for, 24:47342
electron elastic and inelastic scattering by argon, angular distribution from, (E), 25:11879
electron elastic scattering resonances in lithium, effects on electric properties, 24:35386

electron emission from a plane of, properties of, (T), 21:18707
electron emission from sparks in, properties of, 21:29275
electron energies in weakly ionized, Maxwellian distribution derivations in, 22:39092
electron energy balance equation for positive column, self magnetic fields in, (T), 25:59038
electron energy balance in collisional, with molecular impurities, (T), 25:45485
electron energy dependence of momentum-transfer cross section in xenon, microwave measurement of, 24:51640 (AD-707091)
electron energy distribution and ionization rate in cesium discharge, effects of electric fields on, (T), 24:1434
electron energy distribution at cathode sheath, (T), 24:37476
electron energy distribution function for hf induction discharges, (E/T), 25:49888
electron energy distribution function for neon positive column, radial changes of, 25:38438
electron energy distribution function for weakly ionized, effects of inelastic collisions on, (T), 25:36146
electron energy distribution functions for cesium and helium discharge, (T), 23:25337 (BMwF-FBK-69-3, pp 13.1-14)
electron energy distribution functions for helium and helium—argon, 23:48908
electron energy distribution functions for helium, effects of collisions with excited atoms on, (T), 24:19889
electron energy distribution in electrode sheath in weakly ionized, (T), 24:37475
electron energy distribution in hf discharges, circuit for measuring, (E), 24:37455
electron energy distribution in neon discharge, effects of Coulomb collisions on, (T), 25:49900
electron energy distribution in positive column of helium discharge, (E), 25:36119
electron energy distribution in presence of moving striations, (E), 22:50153
electron energy distribution in thermionic, effects of excitation relaxation on, (T), 25:9267
electron energy distribution in weakly ionized cold, (E/T), 21:25110 (CEA-R-3165)
electron energy distribution in, random walk approximation for, (T), 23:36698
electron energy levels in Debye field, 23:51657
electron energy relaxation in nitric oxide magneto-, 22:41576
electron energy-loss factors in, method for measuring, 24:12789 (N-69-35413)
electron existence and maintenance in electrodeless high-frequency, conditions for fast, (E/T), 22:31822
electron fluctuation spectra in nonequilibrium state, (T), 23:18663
electron gas, integrals in theory of degenerate, 21:3866
electron gas, natural resonant frequency of quasi-bound, (E), 21:742
electron heating by magnetic shock waves in, (E), 22:1235
electron imbedding in cold ambient magneto-, growth role of synchrotron radiation from, (T), 22:36921
electron inhomogeneities in hollow cathode discharges, helium, 21:29250
electron interactions with cold magnetized, synchrotron radiation from, (T), 23:23152
electron losses from magnetically confined hf-heated, energy of, 21:15096
electron losses from magnetically confined hf-heated, energy of, 21:15095
electron losses in electrodeless hydrogen, (E), 21:11658
electron mean free path determination in, method for, 21:27173
electron mobility and conductivity in wall-stabilized argon arc, (E/T), 22:41559
electron mobility in magnetic field in weakly ionized, gyromagnetic effect on Pedersen, (T), 24:8475
electron motion in magnetic mirror traps in, 22:44083
electron motion in weakly ionized, in electric fields, (T), 21:11642
electron motion in, effects of electron—ion collisions on, (T), 21:37457
electron motion in, equation of state for adiabatic, (T), 24:49146 (COO-2059-3)
electron motion in, stochastic analysis for free, (T), 23:25362
electron partition function for high-temperature, frozen properties and cutoff criteria for, (T), 24:42681
electron reabsorption of synchrotron radiation in, (T), 24:12569
electron recombination in argon, at 10,000°K, (E), 21:27182
electron recombination, attachment, and diffusion in afterglow of nitric oxide, (E), 22:39130
electron relaxation time in dense, in homogeneous fields, (T), 24:3378
electron resonance excitation in magneto-, using hf electromagnetic fields, 21:2223 (CEA-R-3053)
electron runaway in electric fields, (E/T), 22:24343
electron runaway in fully ionized Lorentz, suppression by crossed electric and magnetic fields, (T), 25:19682
electron runaway in Lorentz, in time-varying electric fields, (T), 25:17179
electron runaway in, electric field effects on, (T), 21:27160
electron scattering by, application of Moliere's theory to, 22:26422
electron scattering cross sections for potassium-seeded argon and helium, 21:11652
electron scattering in air—argon, microwave study of elastic, at 3500 to 4750°K, 23:12793
electron scattering on surface of, effects on surface wave damping in, 24:51740
electron shell-structure in magnetic mirrors, microwave-produced, (E), 23:18622 (CONF-680113-(Vol.1), pp 429-55)
electron shielding in non-neutral, test-particle, (T), 25:56175
electron shock waves in collisionless, (T), 24:47197
electron spin resonance in gaseous, (T), 24:6540
electron temperature determination in nonthermal, intensity ratio of spectral lines of ion for, 21:44042
electron temperature distribution in diodes, (T), 22:34325 (RT/FI-(68)7)
electron temperature distribution in non-equilibrium partially ionized flowing, spectroscopic measurements, 23:1380
electron temperature distribution in nonequilibrium, radiation operator for, 22:26373
electron temperature in fission-fragmented-generated, calculations, 23:1230 (AD-670469)
electron temperature measurement in alkali-metal-seeded rare-gas, use of line-reversal method for, 22:44086 (IPP-3/69)
electron temperature measurement in hot, spectrophotometer for, 22:5317
electron temperature measurement in shock-heated MHD, use of line-reversal method for, (E), 23:20891
electron temperature measurements in torus, using spectrophotometer, 22:5316
electron temperature of laser-created deuterium, evaluation by measurement of x-ray emission, 23:14755
electron temperatures in, development of laser—spectrophotometer system for measuring, 21:26265 (AWRE-O-42/67)
electron thermalization in cesium arc, 21:11651
electron thermionic emission from, kinetic-reflection coefficients for, 21:35176
electron trajectories in stuffed and ordinary cusped magnetic fields, (T), 25:33207 (UARAEE-53)
electron transport coefficients for Lorentzian, (T), 24:26204
electron transport coefficients for partially ionized magneto-, collisional effects on, (T), 22:36944
electron transport coefficients for partially ionized, computer program for, 24:15307 (AD-696243)
electron transport in partially ionized, effect of inelastic collisions on, (T), 24:28292
electron transport in rare gas, scattering cross sections for, 22:34676
electron transport in weakly ionized argon, in transverse magnetic field, (T), 23:3499
electron velocity distribution function for homogeneous Lorentz, (T), 25:9474
electron velocity distribution function for homogeneous argon, (T), 25:56186
electron velocity distribution function for Lorentz, convergency problem in, (T), 25:9473
electron velocity distribution function for neon positive column, (E), 25:40629
electron velocity distribution function for, analog device for determining, (T), 23:46484
electron velocity distribution function for, power series expansion of, 21:40024
electron velocity distribution functions for magnetic fields in, 21:18724
electron velocity distribution in argon discharge, 21:27147 (TID-23760, pp 137-40)
electron velocity distribution in electric and magnetic fields, (T), 25:25121
electron velocity distribution in fully ionized, in crossed electric and magnetic fields, (T), 25:19688
electron velocity distribution in Knudsen-discharge argon, (E), 25:7370
electron velocity distribution in low density, deviation from Maxwellian, 25:43023
electron velocity distribution in nitrogen, non-Maxwellian form of, (E), 22:11443
electron velocity distribution in optically thin hydrogen, (T), 25:3102
electron velocity distribution in weakly ionized, transient relaxation of, 24:42680
electron velocity distribution in, determination using laser, 21:18636 (ARL-66-0234)
electron velocity distribution in, effect of inelastic collisions on tail of, (T), 24:17943
electron velocity distributions in bounded quiescent, (T), 21:18665 (LA-DC-8213)
electron viscosity coefficients for low-turbulence, 22:46169
electron—electron—ion recombination in hydrogen and alkali, (T), 24:10549
electron—helium ion recombination in afterglow of helium discharge, (E), 21:7233
electron—helium ion recombination in helium afterglow, (E), 22:26426
electron—ion beam interactions with magneto-, wave excitation in, (T), 21:7264
electron—ion dissociative recombination coefficient for molecular oxygen at 180 to 630°K, 22:52792
electron—ion dissociative recombination in flowing nitrogen, (E), 24:32820
electron—ion dissociative recombination rates for diatomic molecules, (E/T), 24:51635
electron—ion partition and recombination energy in decaying rare gas, 23:1433 (N-68-27401)
electron—ion recombination and diffusion in cryogenic helium, (E), 25:38424
electron—ion recombination and diffusion kinetics in, initial boundary-value problems in, (T), 25:1349
electron—ion recombination and ion conversion processes in helium—neon mixtures, (E), 24:51650
electron—ion recombination and ionization coefficients for quasi-stationary helium, (T), 25:30540
electron—ion recombination and ionization coefficients for helium, collisional-radiative, (T), 23:51647 (CEA-CONF-1396)
electron—ion recombination and ionization in hydrogenic, model for, (T), 25:22531
electron—ion recombination calculations for two-component, (T), 25:56167
electron—ion recombination coefficient for, with three-body collisions, (T), 24:1425
electron—ion recombination coefficients for helium, pressure and electron density effects on, (E/T), 24:23963
electron—ion recombination coefficients for vibrationally excited, dissociative, (E), 23:46466
electron—ion recombination during radial free expansion of sphere of, 21:795 (AD-636182)
electron—ion recombination effects on stability of, 21:27221
electron—ion recombination energy in rare gas, partition of, (E/T), 22:1204
electron—ion recombination equation for, asymptotic integral property of, 22:31854
electron—ion recombination in, 22:52787
electron—ion recombination in 300°K helium, effects of He_3^+ and He_4^+ on, (E), 25:974
electron—ion recombination in afterglow nitrogen, temperature effects on, 22:5344
electron—ion recombination in afterglow, dependence of emitted light on charge density of, 22:50168
electron—ion recombination in alkali-metal, neutral flux measurement from, (E), 22:24243 (MATT-Q-25, pp 118-65)
electron—ion recombination in argon and helium afterglow, laser interferometric measurement of, 22:3124
electron—ion recombination in argon discharge, effects of electron temperature on, (T), 23:1442
electron—ion recombination in argon, spectral analysis of, (E/T), 22:13497
electron—ion recombination in argon, transition from three-body to dissociative, (E), 24:40074
electron—ion recombination in atmospheric argon, (E), 24:1393
electron—ion recombination in cesium afterglow, microwave measurement of, (E), 22:26371
electron—ion recombination in collision hydrogen, (T), 25:40646
electron—ion recombination in collisionless, near critical density in uhf fields, (E), 23:39460 (NP-17962, pp 18-21)
electron—ion recombination in columns of, (T), 22:11450
electron—ion recombination in cryogenic helium, (E), 25:56152(T) (SC-T-713065)
electron—ion recombination in decaying cesium discharge, spectra of, (E), 23:44413
electron—ion recombination in decaying helium, (E), 25:45468
electron—ion recombination in decaying hydrogen, (T), 25:45475
electron—ion recombination in dense hydrogen, (E), 23:34419
electron—ion recombination in dense rf argon, (E/T), 25:22498
electron—ion recombination in dense, laser beam effects on, 22:11404(R) (LA-3831)
electron—ion recombination in glow-discharges, 22:13465
electron—ion recombination in helium afterglow, 22:46155
electron—ion recombination in helium afterglow, spectroscopic study of, 22:22144 (AE-311)
electron—ion recombination in helium afterglow, temperature decay in, (E), 23:23121
electron—ion recombination in helium, at low temperatures, (E), 25:56161
electron—ion recombination in helium—potassium, at high pressures, 21:18677
electron—ion recombination in helium-afterglow, 25:24938 (AE-410, pp 5-34)
electron—ion recombination in helium-like high-pressure, at gas temperature of 300°K and electron temperatures from 300 to 2000°K, collisional-radiative, (T), 23:8608
electron—ion recombination in high-pressure, Saha equation for, 21:33451
electron—ion recombination in high-temperature hydrogenic, (T), 25:56164 (LGI-71/1/E)
electron—ion recombination in hydrogen, in azimuthal pinch, (E), 21:29236
electron—ion recombination in hydrogen, spectral and microwave studies of decaying, (E), 23:36652 (NP-17950)
electron—ion recombination in laser-produced helium, (E), 23:10640
electron—ion recombination in laser-produced hydrogen, (E/T), 21:3845
electron—ion recombination in laser-produced lithium hydride, (E), 24:28253
electron—ion recombination in neon discharge, effects of pressure and temperature on, 22:15527
electron—ion recombination in neon, electron temperature effects on, 22:9353
electron—ion recombination in optically thick helium afterglow, (T), 25:47535
electron—ion recombination in optically thick helium and hydrogen, 21:33440
electron—ion recombination in oxygen, coefficients for, (T), 25:24887
electron—ion recombination in positive column, (T), 24:28293
electron—ion recombination in potassium, three-body, (E), 24:19881
electron—ion recombination in pulsed helium, at low and high pressures, (E), 25:25109 (AE-410, pp 35-62)
electron—ion recombination in Q devices, in surface collisions, (T), 24:35436
electron—ion recombination in Q devices, loss processes from collisions and diffusion in, (E), 24:35410
electron—ion recombination in Q devices, surface, (T), 24:26211
electron—ion recombination in rare gas, review of measurements and mechanisms of, 24:21787
electron—ion recombination in vibrationally excited, dissociative, (T), 23:46478
electron—ion recombination in weakly ionized helium, pressure effects on, 23:10664

electron—ion recombination in weakly ionized, (T), 21:25153
electron—ion recombination in, atomic and molecular, 21:23180 (IAE-1085)
electron—ion recombination in, calculation of coefficient for, 21:25147
electron—ion recombination in, summaries conference papers on, 22:7306
electron—ion recombination of argon in argon—helium mixtures, (E), 24:28254
electron—ion recombination processes in atmospheric, 21:33395 (AFWL-TR-66-121)
electron—ion recombination processes in decaying rare gas, (E), 25:22515
electron—ion recombination processes in laser-produced lithium hydride, 25:19697
electron—ion recombination processes in laser-produced lithium hydride, (T), 25:25124
electron—ion recombination rate coefficients for argon, (T), 25:56182
electron—ion recombination rate in high-pressure helium, electron-density dependence of, (E), 24:45052
electron—ion recombination rate in, calculation of, 21:29268
electron—ion recombination rates in inert gases, (E), 24:3348
electron—ion recombination rates in rare gas, collisional-radiative, (E/T), 23:18614
electron—ion recombination, radiative energy loss, and level populations in cesium discharge, 22:24316
electron—ion recombinational decay problem in, self-modeling solutions of, 21:37461
electron—ion ring in, stability of, 23:21190(T) (UCRL-Trans-1392)
electron-beam backscattering by, in thermionic cesium diodes, (T), 23:6904
electron-beam interaction with, stabilization of instabilities from, (T), 25:1229
electron-beam interactions in, instabilities in crossed fields, (T), 23:5431
electron-beam interactions with dense, intense monoenergetic, (E/T), 25:30504
electron-beam interactions with, calculation of visible radiations from, 21:20945 (ORNL-TM-1797)
electron-beam interactions with, control of instabilities in, (E), 23:32376
electron-beam interactions with, electron resonance heating in, (E), 23:36646 (NP-17945)
electron-beam interactions with, formation of hot electron component in, (E/T), 24:49214
electron-beam interactions with, nonlinear theory of modulated relativistic, 25:38443
electron-beam quasi-linear relaxation in inhomogeneous and homogeneous, ultrarelativistic, (T), 25:30534
electron-density inhomogeneities in interplanetary, formation mechanism of, (E/T), 25:22444
electron-ion energy transfer in, (T), 21:12027(R) (UCRL-50001-66-2)
electron-transport phenomena in thermionic converter, (E/T), 22:11444
electrostatic fields in magnetized, calculation of, 25:33252
emission from solar-active regions, interplanetary flow of, (E), 24:12586
emission from Sun, effect of thermal conductivity on, (T), 23:20635
emission of Hβ from hot, temperature dependence of, (E/T), 25:38410
emissivity of homogeneous nonequilibrium, (T), 21:44096
energy balance and voltage—current characteristic for arc discharge in hydrogen gas in magnetic field, (T), 24:35441
energy balance equation for argon induction, solution of, 22:52768 (AD-672247)
energy calculation for Maxwell, quantum corrections for, 21:35173
energy calculation for, upper bound for free, 24:51662
energy determination for positive column, (E/T), 21:2258
energy distribution functions for dark space in glow discharges, 21:27176
energy level population calculations for nonthermal, 24:23987
energy level population calculations for nonthermal, 24:23988
energy level population in optically thin, of hydrogen-atom, hydrogen-like ion, and helium-atom, (T), 24:30337 (EUR-CEA-FC-534)
energy level population inversion when mixing with cold gas, 23:5397(T) (JPRS-42891)
energy level populations in carbon, nitrogen, and oxygen, electron density and temperature from, (T), 22:41544 (INR-859)
energy level populations in, relaxation times for, (T), 24:12826
energy level populations of thermal hydrogen, density relaxation of, (T), 24:12815 (AD-695472)
energy level transitions in theta-pinch helium, (E), 22:50187
energy level transitions in wall-stabilized argon arcs, 22:36732
energy levels in nonequilibrium low-temperature, distribution of, (T), 21:46360
energy levels of argon, laser action in z-pinch, (E), 24:28268
energy levels of cesium discharge, (E), 24:21782
energy levels of decaying helium, effect of neutral particle density on population of, (T), 23:12820(T) (SC-T-69-1001)
energy levels of, effects of radiative absorption on local thermodynamic equilibrium, (T), 24:8468
energy loss from thin annular xenon, in short-duration discharge at 12,000 to 42,000°K, 25:38397
energy losses from resonance radiation in argon—potassium, in long cylinders, (T), 24:51667
energy of eddy-current blobs in, (T), 24:21497
energy of electron, ground-state, (T), 22:50167
energy of low-density quantum, free, (T), 23:36700
energy of spherical thermal, radius effects on, (T), 21:5294
energy of turbulent in zeta device, partition of, (T), 23:23151
energy of two-temperature, electrostatic, (T), 21:46344
energy partition functions for atoms and ions in astrophysical, internal, (T), 24:51247 (N-70-29796)
energy states in oscillating electromagnetic fields, stationary, (T), 23:34431
energy transfer between electrons and ions in, velocity dependence of Coulomb logarithm in calculation of, 21:7232
energy transfer in flow of, non-equilibrium effects on, (T), 21:661(R) (AD-634767)
energy transfer in highly-ionized, including collective and non-Maxwellian effects, (T), 24:17927
energy transfer mechanisms in, (T), 24:45250
energy transport in nongrey nonscattering, effective absorption coefficients for radiant, 21:35181
energy-level transitions in positive column of helium—xenon, (E), 22:5065
equation of state for dense, application to white dwarfs and metallic hydrogen, (T), 25:52498 (UCRL-51055)
equations for, use of Prigogine—Resibois master equation in developing classical quasilinear, 23:42326
equilibrium and MHD stability in Tokamak and hybrid systems, (T), 25:38472 (CONF-710607-82)
equilibrium and rotation in Tokamak devices, neoclassical effects on, (T), 25:38465 (CONF-710607-35)
equilibrium and shock structure in toroidal devices, fluid model for, (T), 25:38468 (CONF-710607-75)
equilibrium and stability in Astron and minimum-B mirror systems, (T), 25:36165 (UCRL-51030)
equilibrium and stability in closed magnetic traps without rotational transformation, (T), 25:9491
equilibrium and stability in cylindrical discharge, with homogeneous temperature, (T), 25:45501
equilibrium and stability in Doublet II, (T), 25:7410(R) (GA-10278)
equilibrium and stability in Heliotron magnetic fields, (T), 25:30549
equilibrium and stability in high-beta toroidal systems, (T), 25:38482 (CONF-710607-118)
equilibrium and stability in Tokamak-type devices, magnetohydrodynamic, 25:11911 (EUR-CEA-FC-569)
equilibrium and stability in toroidal fields, effects of hf electric fields on, 25:9499
equilibrium and stability in toroidal systems with currents, (T), 24:12837(T) (AEC-tr-7123)
equilibrium and stability of current-carrying, (T), 24:49188
equilibrium and stability of electron gas, Vlasov, (T), 24:28320
equilibrium and stability of non-neutral, rotor, (T), 24:51709
equilibrium and stability of noncircular cross section, in Tokamak devices, (T), 25:38473 (CONF-710607-83)
equilibrium and thermal insulation in low-shear Sirius stellarator, 25:25138
equilibrium calculations for confining vacuum magnetic field, two-dimensional, 25:56207
equilibrium calculations for helically symmetric, (T), 25:5106 (NYO-1480-161)
equilibrium calculations for symmetric field-free, in toroidal configurations, 25:25131 (JUL-700-PP)
equilibrium calculations for, magnetostatic, 24:26225
equilibrium composition and compressibility factor of superheated mixed-gas, calculation method for, 22:48130
equilibrium configuration of finite-β toroidal, Shafranov-type, (T), 24:17959
equilibrium configuration of finite-β toroidal, Shafranov type, (T), 24:17960
equilibrium configurations in magnetic fields close to neutral point, 24:17966
equilibrium configurations of, for fit in spheres, (T), 25:47541
equilibrium in axially symmetric toroidal devices, finite-beta, (T), 25:33306
equilibrium in betatron, with azimuthal magnetic fields, (T), 23:48922
equilibrium in linear current multipole experiment, 24:21821
equilibrium in magnetic fields, diamagnetism from electromagnetic waves in, (T), 24:40102
equilibrium in magnetic mirrors with external absorbing walls, (T), 23:3469 (UCRL-50002-68, pp 174-89)
equilibrium in magnetic mirrors, high-β, (T), 23:1468
equilibrium in nonaxially symmetric toroidal systems, effects of trapped particles on, 24:17962
equilibrium in pinch discharges, lack of partial thermal, (E), 25:52807
equilibrium in poloidal Heliotron field, (T), 24:12843
equilibrium in stellarator-type vintotron, low-β, (T), 24:28317
equilibrium in stellarators, determination using guiding-center equations, (T), 23:20881
equilibrium in stellarators, effects of electric conductivity on, (T), 24:3387(T) (NP-tr-1855)
equilibrium in stellarators, effects of electric conductivity on, 25:11912 (MPI-PA-7/62)
equilibrium in straight stellarators, finite pressure, 23:6972(T) (LA-tr-68-43)
equilibrium in Tokamak devices, magnetohydrodynamic, (T), 24:45264 (ORNL-4545, pp 9-37)
equilibrium in Tokamak discharges, thermal, (T), 25:5117
equilibrium in Tokamak-type devices, axisymmetric hydromagnetic, (T), 25:19716
equilibrium in toroidal devices, with conventional supports, (T), 23:12742
equilibrium in toroidal geometries with symmetric revolution, magnetohydrodynamic, (T), 25:17193 (EUR-CEA-FC-551)
equilibrium in toroidal geometries, critical beta for magnetohydrodynamic, (T), 25:33301
equilibrium in toroidal geometries, stationary, 22:48118
equilibrium in toroidal magnetic fields, stationary, (T), 22:26395
equilibrium in toroidal theta pinch, high-beta, (T), 25:19718
equilibrium of collisionless theta-pinch, (T), 22:52773 (LA-3844)
equilibrium of collisionless, computer simulation for, 23:1419 (LA-3990, pp B2.1-8)
equilibrium of collisionless, in Z pinches and multipoles, (T), 23:46495 (LA-3844(Pt.2))
equilibrium of column, in rotating magnetic fields, (T), 23:34453 (CONF-680113-(Vol.4), pp 1245-62)
equilibrium of ellipsoidal, in external high-frequency fields, 24:40112
equilibrium of finite Larmor radius, with anisotropic pressure, (T), 22:29495
equilibrium of finite-β toroidal helices, (T), 25:36171
equilibrium of high-β, in toroidal magnetic field with nonplanar axis, (T), 22:39033 (REIC-TR-29).
equilibrium of imperfect multiply ionized, equation of state for, (T), 25:14304
equilibrium of pinch, in constant and helical hf magnetic fields, 22:50171
equilibrium of relativistic electron, in toroidal geometries, (T), 24:47265 (NYO-3782-4, App.7)
equilibrium of rotating cylindrical, macroscopic, 22:34663
equilibrium of rotating, (T), 25:19690
equilibrium of stationary, variational principle for, (T), 23:23134
equilibrium of toroidal confined, effect of inner current-carrying rings on, (E), 25:33313
equilibrium of toroidal theta pinch, stationary, (T), 24:3393
equilibrium of toroidal, with circular hard core, 23:1431 (MATT-645)
equilibrium of, poloidal vacuum fields in closed-line magnetohydrodynamic, (T), 23:16832
equilibrium properties of quantum, at finite temperatures, (T), 25:40648
equilibrium properties of rare gas—nitrogen, between 5,000 and 35,000°K, 24:47227
equilibrium solutions with spherical boundaries, toroidal hydromagnetic, (T), 24:15342
equilibrium, electrodynamics and statistical mechanics of, (T), 23:27209 (AD-680415)
excitation by modulated beam, (T), 21:2192 (TID-23318, pp 127-72)
excitation by plasma-jet generator to determine transition probabilities in argon, 21:27199
excitation in cold, magnetoacoustic resonance for nonlinear, (E/T), 22:17699
excitation in fundamental-mode resonant cavities, frequency-shifting method for, (E), 23:34370 (CONF-680113-(Vol.3), pp 987-1024)
excitation in, estimation of cross section of stepwise, 21:27153
excitation of, theory of four-plasmon parametric, 22:3058
excitation phenomena in induction-coupled, 23:213 (IS-1900, Paper 3)
excitation—heating of carbon-arc, (E), 23:23077
excited atoms in hydrogen nonthermal, effects of electron—atom and atom—atom collisions on number densities, 24:17944
expansion from spherical source into vacuum, (T), 25:56180
expansion from spherical source into vacuum, effect of partial ionization and recombination on, (T), 25:56181
expansion from Starfish burst, asymmetric, (E), 23:34316
expansion in inductive rf discharge, (E), 23:7002
expansion in magnetic field of, produced by laser irradiation of foils, 23:3517
expansion into vacuum environment, (T), 23:34430 (SC-R-69-1270)
expansion into vacuum environment, particle number and electric field junctions of space and time for, (T), 23:30547 (SC-DC-69-1772)
expansion into vacuum, computer simulation of, (T), 25:27709
expansion of collisionless, one-dimensional free, (T), 23:23150
expansion of high-altitude nuclear explosion, photographic observations and theoretical analysis of, 21:9462
expansion of laser-produced, from spherical targets, (E), 23:42330
expansion of laser-produced, into vacuum, (E), 25:19703
expansion of laser-produced, model for high-beta, (T), 25:47558
expansion of laser-produced, nonlinear effect of, (T), 25:36154
expansion of laser-produced, self-similarity model for, 25:36132
expansion of luminous front of laser-produced graphite, 21:804
expansion of plasma shell into vacuum magnetic field, (T), 23:36691
expansion of rarefied, in vacuum, (T), 25:59049
expansion of small volume, model of, 25:7392
expansion of spherical, thermokinetic theory for, 25:36131
experimental facilities for, design and testing of pressurized 40 kV and 20 kV spark gap for, 21:30571 (BMwF-FBK-67-36)
experimental facilities for, inductive pulse-current generator for, 21:30570 (BMwF-FBK-67-35)
explosion of ionized gaseous filament, effect of plasma frequency on, (E), 24:15304
explosion of small particle in powerful light beam, initial time-dependent parameters of light, (T), 25:30471
explosions in sloping magnetic fields, shock analysis from, (T), 21:23205

flow across magnetic fields, variational·method for transverse, 21:18660 (AD-642242)
flow along ducts, analysis of, (T), 21:9378
flow along magnetic fields, instabilities in, (T), 21:29316
flow around conducting sphere in magnetic field, (T), 21:29284
flow around disk, Langmuir-probe study of, 25:16875
flow around solid bodies, collisionless, (T), 24:17936
flow around two-dimensional magnetic dipole, supersonic, (E), 23:10536
flow at magnetopause during magnetic storm of Jan. 13—14, 1967, (E), 22:47977
flow between cold electrodes, current calculations for, 21:44113
flow deceleration of helium T-tube, in transverse magnetic field, (E), 22:34686
flow dynamics of, 24:3229
flow fields and temperature in wall-stabilized magnetically deflected arcs, (E/T), 24:15291
flow fields in collisionless, kinetic theory for, 21:18743
flow in annular MHD duct at high Hall-parameter values, (E), 25:30343
flow in azimuthal magnetic fields, contraction in, (T), 22:29515
flow in channel, theory of highly conducting plane, 25:19671
flow in coaxial channels, two-dimensional, (T), 23:1469
flow in constricted arcs, equilibrium model for, 24:17924
flow in electromagnetic shock tubes, (E), 23:7009
flow in fast stellarators, finite conductivity, (T), 25:38379 (CONF-710607-112)
flow in geomagnetic tail following geomagnetic bays, outward, 22:5230
flow in inherent fields of arc discharges, compressible, (T), 25:3103
flow in magnetic field of compressible, supersonic, 23:1242 (AD-670158)
flow in magnetic shock tubes, with unsteady magnetic fields, (E), 23:12803
flow in magnetosphere, model for, (T), 22:47960
flow in MHD channels, preionization and velocity effects in nonequilibrium, 25:30348
flow in MHD generator channel, boundary layers in laminar, (T), 25:38209
flow in positive column arc discharges, properties of, 24:49172
flow in self-induced magnetic field of arc discharge, (T), 25:36103 (DLR-FB-70-13)
flow in shock tubes, dynamics of, (E), 25:55920
flow in shock tubes, spectra of, (E), 24:6530 (AD-694106)
flow in wall-constricted arcs, properties of, (E/T), 22:39061 (N-68-11083)
flow into vacuum of partially ionized argon, source, (E), 22:9184
flow near electrodes in electric arcs, (E), 22:17647
flow of anisotropic, well-posedness criteria for unsteady, (T), 24:35428
flow of arc, balanced magnetically in transverse gas stream, (E), 22:2903
flow of argon, induced emf measurements during supersonic, 22:43969
flow of collisionless, cold-ion approximation for kinetics of, 21:29280
flow of high-temperature argon, arc-measurement of, 21:33379
flow of hot, steady-state axisymmetric, (T), 23:8598 (LA-4015)
flow of hydrogen, in crossed electric and magnetic fields, (T), 21:44089
flow of ideal, in own electric field, (T), 25:45482
flow of interplanetary, past Earth and planets, (E/T), 25:9348
flow of multicomponent viscous, equations for parallel, 21:7060
flow of potassium-seeded argon, ionization and recombination processes in nonequilibrium, 22:5360
flow of rarefied, around two-dimensional bodies, supersonic, (T), 25:17138
flow of rarefied, past charged bodies, far-wake structure in, 25:9478
flow of relativistic, hydromagnetic free expansion, 25:24764
flow of weakly ionized, relation between Langmuir probe current and turbulence in, (E), 21:37480
flow of, amplification of weak magnetic fields in turbulent, (T), 23:48585
flow of, classical diffusion limit for one-dimensional, (T), 22:26392
flow of, current patterns in nonequilibrium, 21:33407 (R-67-SD-28)
flow of, in magnetosheath, (E), 24:26069
flow of, magnetic flux transfer at hyperbolic neutral point, (E/T), 24:51648
flow of, nonequilibrium magnetohydrodynamic, (T), 22:5213
flow of, under anisotropic pressure, plane, (T), 25:49785
flow over boundary of magnetic field, nonequilibrium and enhanced mixing during, (T), 22:4939
flow past cylindrical object, computation of Coulombian drag of collisionless, (T), 24:45249
flow past flat plates, boundary-layer studies of, (E/T), 25:14276
flow past flat plates, current collection in, 22:15513 (SC-DC-67-2052)
flow past spherical object, (E), 23:12493
flow past thin wedge, effects of finite Larmor radius on steady, (T), 25:14329
flow pattern in magnetosheath, (E), 23:30422
flow patterns in magnetosphere, effects of ionospheric conductivity on convective, (T), 24:47140
flow through annular channel with radial magnetic field, effects of Hall effect on two-dimensional, (T), 23:51433
flow through channel with magnetic field followed by injection through electrodes, effects of Hall effect on steady-state, (T), 25:30344
flow toward electrodes in high-current discharges, effect of transverse field on, (E), 24:21785
flow velocity in K_2CO_3-seeded argon, (E), 21:9396
flow velocity of free-molecular, accuracy of probe measurements of, (T), 25:3074
flow, results of two-dimensional Lax—Wendroff hydromagnetic code for, (T), 22:50150 (SC-DC-68-2404)
fluid flow in rarefied, Poisson—Vlasov equations applied to supersonic, 21:25148
focus discharge coupling with laser-created, experiment on flow in, 24:45221
geomagnetic disturbance propagation in magnetized, cold, 22:48011
gravitational instability of rotating anisotropic, with inclusion of finite Larmor radius effect, (T), 23:18361
Hall current attenuation by strong magnetic field in neon discharge, 24:1380
Hall effects in ionized, 22:34711
heat exchange in argon, magnetic field effect in, 23:12788
heat transfer calculations through Langmuir sheath of, 21:27177
heat transfer from argon, flowing in circular tubes, 22:12524
heat transfer from argon, flowing in water-cooled tubes, (E/T), 24:46424
heat transfer from argon, flowing in water-cooled tubes, 23:523 (SU-247-14)
heat transfer from hot, to solid surfaces, 21:13554 (AGARD-CP-8(Vol.1), pp 353-84)
heat transfer in collisionless, along magnetic field lines, (T), 25:14317
heat transfer in quiescent nonequilibrium, to spherical bodies, electron, (T), 24:46425
heat transfer in toroidal, due to trapped-electron instabilities, (T), 24:10562
heat transfer in, effect of electric and magnetic fields on, 22:237
heat transfer in, in pulsed accelerator, 22:44154
heat transfer of arc, balanced magnetically in transverse gas stream, (E), 22:2903
heat transfer properties of, (T), 23:12817 (CONF-680832-1)
heat transfer to electrodes from flowing argon—potassium, 25:33288
heat transfer to solid wall boundary, 22:41582
heating and adiabatic compression in Tuman device, (E), 23:32340
heating and adiabatic compression in Tuman-2, uhf, (E), 25:38389 (CONF-710607-141)
heating and anomalous diffusion in pinch, turbulent, (T), 25:38351 (CONF-710607-66)
heating and collisions in, models for simulating, 25:59033
heating and compression when particle motion is nonadiabatic, (T), 24:21755
heating and confinement in Doublet and Tokamak devices, 25:17131
heating and confinement in internal ring device F IV, 25:38327 (CONF-710607-5)
heating and confinement in multipole structures, (E), 25:38324 (CONF-710607-2)
heating and confinement in Tokamak T-3, (E), 25:30461(T) (MATT-Trans-79)
heating and confinement in Tokamak T-4, (E), 25:38337 (CONF-710607-31)
heating and confinement in toroidal magnetic traps, turbulent, (E), 25:56127
heating and confinement in Uragan stellarator, (E), 25:22476
heating and confinement, research review of, 24:26146
heating and enhanced diffusion in beam—plasma system, (E), 24:6507 (AD-693807)
heating and ionization by harmonic absorption of microwaves, (E), 25:3145 (CEA-CONF-1607)
heating and lf instabilities in beam—plasma system, ion, (E), 24:51613
heating and losses in Tokamak devices, turbulent, (T), 25:38349 (CONF-710607-63)
heating and production by high-power electrostatic waves, (E), 25:49946
heating and production by microwaves, (E), 24:3382
heating and shaping in vhf fields, hf wave effects on, (E), 23:44381 (CONF-680113-(Vol.5), pp 1-39)
heating and stability in combined pinch, (E), 25:38332 (CONF-710607-13)
heating and turbulence in beam—plasma system, (E), 24:35375
heating at electron cyclotron frequencies, breakdown of adiabatic invariance in, 24:49104(R) (UCB-34-P-128-15)
heating at electron cyclotron frequencies, relativistic and finite cyclotron radius effects in, (T), 24:45264 (ORNL-4545, pp 9-37)
heating at electron cyclotron frequency in nonuniform magnetic fields, (E), 23:25286
heating at electron cyclotron resonance, conditions for, 25:11861 (NP-18635)
heating at electron cyclotron resonance, high-power 8-GHz, 25:30456 (EUR-4593, pp 551-6)
heating at electron cyclotron resonance, nonlinear, (T), 24:49218
heating at electron—ion hybrid resonance frequency, (E/T), 23:10602 (ORO-3777-1)
heating at ion cyclotron frequencies, properties of, 21:46315
heating at ion cyclotron resonance, collisionless, 25:58973
heating at second harmonic of electron cyclotron frequency, (E), 25:58971
heating by 8-mm microwaves in ELMO, electron cyclotron, (E), 23:18578 (CONF-680113-(Vol.1), pp 161-78)
heating by adiabatic compression in Tokamak devices, (T), 24:49108
heating by adiabatic compression, anomalous electron, 22:9281
heating by alpha particles in magnetic mirrors, energy balance in, 25:25084
heating by charged-particle pulse, (T), 24:6515
heating by coherent wave scattering on, collisionless, (T), 25:38522
heating by collisionless large-amplitude shock waves, (T), 25:38353 (CONF-710607-70)
heating by collisionless low-β shock waves, near critical Alfven—Mach number, (E), 25:30468
heating by collisionless shock waves, electron, 22:3013
heating by counterstreaming ion beams, electron, (T), 24:19870
heating by current in magnetic mirror field, turbulent, 21:20920
heating by currents in high-shear Uragan stellarator, (E), 25:38378 (CONF-710607-111)
heating by currents in magnetic traps, turbulent, (E), 23:18587
heating by currents in mirror machines, neutron measurements of turbulent, 25:38347 (CONF-710607-55)
heating by currents in open and closed traps, turbulent, (E), 23:32312
heating by currents in stellarators, electric conductivity in, (E/T), 25:38376 (CONF-710607-109)
heating by currents in turbulent linear discharges, (E), 23:32345
heating by currents, current-interchange instability during turbulent, (E/T), 25:14344
heating by currents, shock waves, and electron beams, turbulent, (E), 25:38341 (CONF-710607-49)
heating by currents, turbulent, (T), 23:18579 (CONF-680113-(Vol.1), pp 203-34)
heating by cyclotron waves in nonuniform magnetic fields, (T), 25:9404
heating by cyclotron waves in nonuniform magnetic fields, (T), 25:9403
heating by cyclotron-frequency fields, ion and electron, 24:47200
heating by dissipation of current-driven turbulence, (E), 25:38343 (CONF-710607-51)
heating by electric fields, anomalous hf resistivity in, (T), 24:28224 (MATT-756)
heating by electric fields, effects of inelastic collisions on, (T), 23:20883
heating by electromagnetic waves near lower hybrid resonance, (E), 25:38390 (CONF-710607-142)
heating by electromagnetic waves, nonresonant, (T), 24:17878
heating by electron beam interactions with mirror-confined, (E), 21:18623
heating by electron beam interactions with, ion, (E), 25:3054 (CEA-CONF-1611)
heating by electron beam, probe measurements of ion energy distribution in, 22:34715
heating by electron beams in Burnout V, 24:45220 (ORNL-4545, pp 72-103)
heating by electron beams in magnetic mirror fields, (E), 23:32315
heating by electron beams in magnetic mirror system, ion, (E), 24:49114
heating by electron beams in magnetic mirror traps, (E), 23:32314
heating by electron beams in magnetic mirrors, (E/T), 24:6509 (NP-18059)
heating by electron beams in open traps, (T), 24:12783
heating by electron beams in uniform magnetic fields, (E) , 23:12752
heating by electron beams, effects of magnetic fields on, (E), 25:58972
heating by electron beams, properties of, 23:3438 (IAE-1630)
heating by electron beams, properties of, (E/T), 23:44379(T) (AEC-tr-7055)
heating by electron cyclotron resonance absorption, (E), 25:22534
heating by electron cyclotron resonance radiation, instabilities and waves in, (E), 23:27644(R) (COO-1695-15)
heating by electron cyclotron resonance, numerical simulation of, 24:51607
heating by electron cyclotron resonance, resonant particles in, 24:42645
heating by electron cyclotron waves in mirror fields, electron trapping in, (E/T), 23:34376 (ORNL-4401, pp 25-44)
heating by electron cyclotron waves, lf wave excitation in, (E), 25:14343
heating by explosive energy, nondiffusive effects in radiative propagation from, (T), 24:42648
heating by external hf electromagnetic fields, (E), 25:30460(T) (MATT-Trans-13)
heating by fast compression, generation of rapid rise current pulses for, 22:46104 (IPP-4/57)
heating by fast hydromagnetic waves, 22:9279
heating by fast large-amplitude magnetoacoustic waves, 22:46118
heating by fast large-amplitude magnetosonic waves, 22:44073 (NP-17551)
heating by fast magnetoacoustic waves in waveguides, (E/T), 24:49115
heating by fast magnetosonic wave of large amplitude, 22:11410
heating by hf electromagnetic fields, (T), 22:46107 (IPP-6/64)
heating by hf electromagnetic fields, research in USSR on, 22:1130
heating by hf fields at cyclotron resonance, (T), 23:12748
heating by hf fields near lower-hybrid frequency, (E), 25:11860 (FTI-282)
heating by hf fields when in ion cyclotron resonance state, 21:15099
heating by hf fields, cyclotron, (E), 22:48077(T) (MATT-Trans-60)

heating by hf fields, in presence of magnetic fields greater than cyclotron field, 22:48076(T) (MATT-Trans-57)
heating by hf fields, research on, (E/T), 25:38391 (CONF-710607-143)
heating by hf waves in magnetic mirrors, (E), 23:30561(T) (NP-tr-1768)
heating by hf waves near lower hybrid frequency, (E), 25:33206(T) (ORNL-tr-2435)
heating by high-power microwaves, matching technique for, (E), 23:42227
heating by inhomogeneous time-varying electric fields, ion, (T), 23:10603 (ORO-3777-2)
heating by intense electron beam in mirror-confined, 22:31790
heating by interacting electron beams, (E), 25:49871
heating by inverse bremsstrahlung process, (T), 25:40645
heating by ion acoustic waves in ion-streaming, ion, (E), 25:30458 (IPPJ-104)
heating by ion cyclotron resonance in nonuniform magnetic field, Stix coil for, 23:42223 (MATT-681)
heating by ion cyclotron waves in magnetic beaches, (E), 25:56231 (N-71-25439)
heating by ion wave turbulence in, electron, (T), 25:5072
heating by ion—acoustic waves in streaming, ion, (E), 25:14240
heating by large currents, turbulent, (E), 23:44382 (CONF-680113-(Vol.5), pp 41-75)
heating by large transverse fields near 2ω/sub pe/, (T), 25:47496 (AD-715073)
heating by large-amplitude Alfven waves, nonlinear, (E), 23:16769 (NP-17781)
heating by large-amplitude electromagnetic fields, steady-state effects of, (T), 23:34373 (CONF-680113-(Vol.4), pp 1219-43)
heating by large-amplitude high-frequency electric field, computer experiments on anomalous, (T), 24:35456
heating by large-amplitude oscillations in theta-pinch, electron, (E), 25:30467
heating by large-amplitude whistler excitation in, turbulent, (T), 25:30470
heating by laser beams, self-similar thermal wave in two-temperature, (T), 25:14237
heating by laser irradiation of lithium hydrides, (E/T), 24:51690
heating by laser irradiation, anomalous, (E/T), 25:25082 (MATT-817)
heating by laser, x-ray production, (T), 24:15271
heating by laser-beam irradiation, lf instabilities from, (T), 24:8434
heating by laser-irradiation of deuterium—tritium, net fusion energy from, (T), 25:22537
heating by laser-irradiation of lithium deuteride, electron-ion relaxation in, (E/T), 25:1169
heating by laser-irradiation of lithium deuterides, temperature and expansion energy in, (E), 25:22535
heating by laser-irradiation of solid targets, hydrodynamic model for, (T), 25:22479
heating by laser-irradiation of stationary, one-dimensional, (T), 25:9405
heating by lasers and electron beams, (T), 25:30452
heating by lasers in density range 10^{17} to 10^{19}/cm^3, 25:59054 (MATT-782)
heating by lasers in Wendelstein stellarators, continuous, (E), 23:23065 (IPP-2/73)
heating by lasers, charged-particle motion in, (T), 24:21758
heating by lasers, energy requirements for inertially confined, (T), 25:19646 (IPP-4/7)
heating by lasers, in pinch devices, (T), 25:33216
heating by lasers, prospects for, 25:59057
heating by lasers, review of, 24:17876
heating by lf electromagnetic waves, nonlinear theory of turbulent, 23:44383 (CONF-680113-(Vol.5), pp 77-84)
heating by lf electromagnetic waves, turbulent, (T), 23:18580 (CONF-680113-(Vol.1), pp 235-43)
heating by magnetic field compression, (T), 22:15510
heating by magnetic pumping using field-line torsion, 25:38388 (CONF-710607-138)
heating by magnetic pumping, nonlinear effects in transit-time, (T), 25:1162 (CEA-CONF-1606)
heating by magnetic pumping, torsional magnetic perturbation in, (T), 25:19648
heating by magneto-acoustic resonance, nonlinear processes in, (T), 25:52773
heating by magnetoacoustic waves, (E), 23:18590
heating by microwave scattering, turbulent, (E), 23:42222 (CU-3958-2)
heating by microwaves below electron cyclotron frequency, absorption in, 22:48075(T) (NP-tr-1668)
heating by microwaves in ELMO facility, off-resonant, 25:45451 (ORNL-4688, pp 67-76)
heating by microwaves in INTEREM facility, electron cyclotron, 22:31787 (ORNL-4238, pp 59-66)
heating by microwaves in magnetic fields larger than cyclotron field, (E), 23:8583
heating by microwaves near cyclotron resonance frequency, charged particle density in, 21:44024
heating by microwaves near cyclotron resonance frequency, 21:44025
heating by microwaves, off-resonance, (E/T), 25:11909(R) (COO-1695-31)
heating by microwaves, off-resonance, (E/T), 25:11910(R) (COO-1695-32)
heating by microwaves, turbulent, (E), 24:23943(R) (CU-3958-3)
heating by modulated electron beams, ion, (T), 25:19650
heating by neutral injection into stellarators, 25:30455 (EUR-4593, pp 479-84)
heating by opposing beams of coherent radiation, (T), 24:47194
heating by opposing magnetic fields, turbulent, 22:48080
heating by quasi-static ion cyclotron waves, research on, 24:49107(R) (ORO-3871-4)
heating by random fields, stochastic theory of turbulent, 24:45222
heating by reflected ionizing shock waves, (T), 24:42650
heating by reflection of ultrahigh-frequency waves in, compression in, 22:39032(T) (MATT-Trans-59)
heating by rf electric fields in magnetic mirrors, (T), 24:28225
heating by rf electromagnetic waves, 22:39102
heating by rf fields at ion-cyclotron resonance, effect of internal fields on, (E), 25:38402
heating by rf fields in Helios experiment, (E), 23:34371 (CONF-680113-(Vol.3), pp 1037-46)
heating by rf fields in toroidal octupoles, ion and electron cyclotron, (E/T), 25:7358
heating by rf fields, efficiency of, (T), 25:11864
heating by rf fields, ion acceleration in, (T), 24:12808
heating by rf methods, research on, 25:49866 (MATT-Q-28, pp 54-63)
heating by rf power concentration at second harmonic of electron cyclotron frequency, (E), 22:11411
heating by shf waves near lower hybrid resonance, (E), 23:44380(T) (AEC-tr-7066)
heating by shock waves in z pinches, 25:38333 (CONF-710607-14)
heating by shock waves, theory of laminar, 25:40655 (NYO-1480-170)
heating by stochastic fields in magnetic mirror machines, (T), 23:5374
heating by stochastic fields, theory of relativistic, 22:17629
heating by stochastic methods, (T), 24:32813
heating by straight discharge current, turbulent, (E), 24:6511(T) (NP-tr-1862)
heating by strong electron beams in magnetic mirror traps, 24:47189(T) (AEC-tr-7160)
heating by strong interaction with electron beam in magnetic mirrors, (E), 23:18581 (CONF-680113-(Vol.1), pp 289-318)
heating by strong shock waves, (E), 24:6510(T) (NP-tr-1861)
heating by strong shock waves, (E), 25:38383 (CONF-710607-120)
heating by strong shock waves, (E/T), 25:27670
heating by strong shock waves, apparatus for, (E/T), 23:25284 (AD-678637)
heating by subnanosecond laser pulses, (T), 23:42225 (UCRL-71733)
heating by superhigh-frequency fields, in magnetic fields, 23:3440 (NP-17655)
heating by surface wave fields, anomalous, (T), 24:15267 (NP-18118)
heating by transit time magnetic pumping, in torus, 25:43332 (EUR-CEA-FC-595)
heating by trapped-particle modes in, turbulent, (T), 25:5068 (AD-710318)
heating by turbulence in tokamak devices, ohmic, (E), 25:56123(R) (ORO-4087-1)
heating by turbulent current flow, temporal and spatial origin of hot ions in, 24:42655
heating by turbulent electric fields, (T), 23:1357 (LA-3990, pp A5.1-8)
heating by turbulent flow, measurement of fluctuation level in, (E), 25:1165
heating by turbulent linear discharge, electron beam, (E/T), 24:1369
heating by two hf electromagnetic waves beating near cyclotron frequency, (T), 25:52780
heating by two-phase excitation, ion cyclotron, (E), 25:5076
heating by uhf field in magnetic trap with plugs, electron reflection in electron-cyclotron, (E/T), 22:44075 (NP-17565)
heating by uhf fields in magnetic fields, (E), 23:32324
heating by uhf waves, properties of, (E/T), 23:18576 (CONF-680113-(Vol.1), pp 11-48)
heating by ultra-fast theta pinches, research on, 25:47495(R) (AD-714619)
heating by ultrashort laser pulses, electronic heat conduction mechanism, (T), 24:47196
heating by wave damping near ion cyclotron harmonics, (E/T), 24:8428(R) (ORO-3778-2)
heating device for, transpiration cooling of electric arc, 21:20918
heating due to beam cyclotron instability in, 25:45445 (AD-720675)
heating due to electrons trapped along magnetic field, ion, (E), 23:36650
heating during annihilation of opposite magnetic fields, turbulent, (E), 25:30469
heating during beam instability of straight discharge current, 23:51593
heating during current instability, (T), 23:27606
heating during development of electron—acoustic instability, turbulent, (E), 23:16770
heating during development of electron-acoustic instability, turbulent, 24:10497(T) (AEC-tr-7115)
heating during growth of electron acoustic instabilities, turbulent, (E), 23:36642 (FTI-218)
heating efficiency in electron cyclotron resonance experiments, (E), 24:35446(R) (COO-1695-27)
heating from nonlinear effects of large-amplitude Alfven waves, (E/T), 23:32325
heating in adiabatic trap at electron cyclotron resonance, anisotropic instabilities in, 23:18584 (CONF-680113-(Vol.1), pp 407-28)
heating in Alice machine, enhanced ion cyclotron radiations and stabilizing effects of microwave, 22:26355 (UCRL-70841)
heating in arcs, method for increasing, 21:7176(T) (ORNL-tr-1438)
heating in beam—plasma discharge, resonance, (E), 23:36646 (NP-17945)
heating in beam—plasma system, conditions for electron, (E), 23:46450 (CEA-CONF-1313)
heating in beam—plasma system, during development of hf instabilities, (E), 25:5073
heating in beam—plasma system, limitations in, 24:45220 (ORNL-4545, pp 72-103)
heating in Bille-en-Tete device, 22:50126(R) (EUR-CEA-FC-352)
heating in Burnout V machine, turbulent ion, 24:47195
heating in Burnout V, turbulent ion, (T), 24:35370 (ORNL-TM-3036)
heating in Burnout V, turbulent, (E), 23:34378 (ORNL-4401, pp 98-112)
heating in C stellarator, computer calculation of ohmic, (T), 23:12751
heating in C stellarator, properties of ion cyclotron, 21:20915 (MATT-Q-23, pp 1-90)
heating in closed magnetic traps, by electron injection, 22:46114(T) (N-68-24459)
heating in closed magnetic traps, stochastic, 22:46119
heating in cusp magnetic geometries by injection of 20-keV hydrogen ions, 25:47554 (NP-18939)
heating in DCX-2 device, turbulent, (E), 23:34456 (ORNL-4401, pp 52-78)
heating in dense plasma focus, ion, (E), 25:9401
heating in discharges with skin current, turbulent, (E), 24:21754(T) (MATT-Trans-99)
heating in discharges with skin current, turbulent, (E), 24:28233
heating in discharges with skinned current, turbulent, (E), 24:12779 (NP-18106)
heating in electric arcs, properties of, (T), 22:22125
heating in ELMO and INTEREM facilities, electron-cyclotron, 21:13529 (ORNL-4063, pp 21-8)
heating in ELMO facility, electron cyclotron, 21:44021 (ORNL-4150, pp 56-70)
heating in ELMO facility, electron cyclotron, (E), 23:44388
heating in ELMO facility, off-resonant and long wavelength, (E), 24:45219 (ORNL-4545, pp 59-71)
heating in Etude device, ion temperatures in, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
heating in fast theta pinch, ion, 23:6971 (IPP-1/87)
heating in fast theta pinch, ion, 22:1136 (LA-3770, Paper D1)
heating in Helios, near cyclotron frequency, 25:9398(R) (ORO-3895-15)
heating in Heliotron C, ohmic, (E), 25:58963
heating in high-current discharges, collisional effects on, 25:17132
heating in high-current discharges, effects of collective interactions on, (E), 24:37427(T) (LA-4382-TR)
heating in high-current discharges, efficiency of, (E/T), 24:40036 (KHFTI-69/43)
heating in high-current discharges, energy balance in, (T), 25:38352 (CONF-710607-69)
heating in high-frequency fields, properties of, (E), 23:32323
heating in high-pressure electrodeless discharges, 23:10605
heating in high-voltage theta pinch, ion, (E), 25:38385 (CONF-710607-124)
heating in homogeneous magnetic fields, model for stochastic electron, 24:37432
heating in ISAR I linear theta pinch, with helical $l = 1$ symmetry, (E), 25:33203(T) (CTO-742)
heating in JFT-2 device, performance of Joule, (T), 25:47499
heating in $l = 1$ high-β stellarator, in linear ISAR I, 25:22469 (IPP-1/111)
heating in laser discharges, at the shock front, (E), 23:27607
heating in laser-beam-irradiated, electron, 25:14279
heating in linear discharges in magnetic mirrors, 21:37413
heating in linear discharges, beam instabilities in, (E), 24:28262
heating in linear discharges, turbulent, (E), 25:38345 (CONF-710607-53)
heating in local mirrors of C stellarators, ion cyclotron, 21:27126
heating in magnetic mirror field, electron beam, 21:20921
heating in magnetic mirror fields, nonadiabatic and stochastic mechanisms of, (E), 23:20882
heating in magnetic mirror fields, stochastic, 24:30309
heating in magnetic mirror geometries, turbulent, (E), 24:42649
heating in magnetic mirror machines, turbulent ion, (E), 22:22129
heating in magnetic mirror traps, cyclotron resonance, (T), 23:42289(R) (NYO-3782-3)
heating in magnetic mirrors, limit of cyclotron resonance, (T), 22:29465
heating in magnetic mirrors, stochastic model of ECR, (T), 25:58968
heating in magnetic mirrors, stochastic model of electron-cyclotron, (T), 25:3055 (IPPJ-100)
heating in magnetic mirrors, stochastic model of electron cyclotron, (T), 23:20884
heating in magnetic mirrors, stochastic, (E), 23:12743
heating in magnetic mirrors, stochastic, (T), 23:42226
heating in magnetic mirrors, stochastic, (T), 25:3058
heating in magnetic mirrors, strong turbulent, (E), 23:32313
heating in magnetic mirrors, turbulent, 22:41542
heating in magnetic mirrors, turbulent, (E), 25:38342 (CONF-710607-50)
heating in magnetic mirrors, with fast condenser discharges, 22:1139 (LA-3770, Paper E1)
heating in megajoule theta-pinch experiment, 23:16767 (N-68-33372)
heating in metal chambers, properties of hf, 21:15187
heating in metal discharge chambers by absorption of cold electrons, 25:40594
heating in microwave discharges, nonlinear, (E/T), 24:32811
heating in mirror fields, theory for electron cyclotron, 21:27124
heating in mirror machines, research on turbulent, (E/T), 25:45452 (ORNL-4688, pp 77-91)

heating in mirror machines, review of turbulent, 25:3056 (ORO-1171-1, pp 78-97)
heating in mirror, turbulent, 22:3007
heating in model C stellarator, ion cyclotron, (E), 23:48879
heating in model ST tokamak, ohmic, (E), 25:30459 (MATT-813)
heating in nonuniform magnetic fields, Stix coil for ion cyclotron, 25:17133
heating in nonuniform magnetic fields, use of Stix coil for ion cyclotron resonance, (E), 23:27603 (MATT-Q-26, pp 1-141)
heating in Ormak device, research on, 25:45507 (ORNL-4688, pp 44-66)
heating in Penning discharges, ion, (E), 25:5075
heating in presence of ion acoustic waves, ion, (T), 25:22481
heating in pulsed experiments, effects of electrostatic instabilities on turbulent, (T), 25:33268
heating in pulsed z discharges, current processes in, (T), 25:45449 (NP-18947)
heating in Q devices, electron cyclotron, 22:11404(R) (LA-3831)
heating in Q devices, electron cyclotron resonance, (E), 24:28229
heating in QP machine, ion cyclotron, (E/T), 23:18582. (CONF-680113-(Vol.1), pp 343-78)
heating in rapidly rising magnetic fields, shock, (E), 25:1168
heating in Sirius stellarator, by runaway electron beam, 22:9276(T) (MATT-Trans-44)
heating in Sirius stellarator, ohmic, (E), 25:49868
heating in spherator, electron cyclotron resonance, (E), 23:27603 (MATT-Q-26, pp 1-141)
heating in stellarators, stochastic, (E), 24:51611
heating in stochastic fields, (E/T), 22:24259
heating in stochastic fields, (E/T), 22:24259
heating in stochastic fields, rate of, (E), 22:3064
heating in stochastic fields, rates for, (T), 21:727
heating in straight turbulent discharge in air, dynamics, 23:16835
heating in strong discharges, efficiency of current, 24:19871
heating in strong electric fields, turbulent, (E), 25:22473
heating in strong magnetic fields, laser use for, 21:46312
heating in strong magnetic fields, turbulent, (T), 25:33272
heating in strong shf fields, anomalous, (E), 23:39443 (NP-17962, pp 28-31)
heating in superconducting levitron, 25:38446 (CONF-710607-9)
heating in superconducting Levitron by energetic electrons, 24:32809 (UCRL-50824)
heating in TARGET experiments, electron cyclotron, (E) , 23:32322
heating in theta pinches, compression temperature for, (T), 25:22478
heating in theta pinches, kinetics of, (E), 25:38386 (CONF-710607-125)
heating in theta-pinch devices, parameters of, 21:39983
heating in theta-pinch, properties in, (E), 24:6514
heating in tokamak devices, high-frequency, (T), 25:58966
heating in Tokamak devices, ion energy balance in, (E), 24:42646
heating in Tokamak TM-3, turbulent, (T), 25:52775
heating in Tokamak-3, ion, (E), 23:51592
heating in tokamak-like JFT-2, Joule, 25:14233 (JAERI-Memo-4186)
heating in tokamak-type configurations, methods for, 25:38393 (EUR-CEA-FC-579)
heating in tokamaks by increasing longitudinal magnetic field, (T), 25:56125
heating in toroidal devices, ignition, (T), 25:25081 (MATT-800)
heating in toroidal devices, transit-time magnetic pumping in, 25:58959 (CEA-CONF-1830)
heating in toroidal geometries, limitations on ion cyclotron resonance, (E), 22:24242 (MATT-Q-25, pp 30-117)
heating in toroidal magnetic configurations, kinetics of ohmic, (T), 24:42643 (EUR-CEA-FC-538)
heating in toroidal magnetic traps, by excitation of ion cyclotron waves, (E), 25:7359
heating in toroidal magnetic traps, hf, (E), 25:38392 (CONF-710607-144)
heating in toroidal magnetic traps, research on microwave, 21:44020 (ORNL-4150, pp 1-35)
heating in toroidal multipoles, microwave, (E), 24:3298 (UR-4054-6)
heating in toroidal octupoles, electron cyclotron, (E), 25:43334
heating in toroidal systems with currents, turbulent, (E), 23:18596
heating in toroidal systems, neoclassical theory of magnetic pumping, 25:38387 (CONF-710607-137)
heating in turbulent, microwave use for ion, 21:37411
heating in two-step theta-pinch, (E), 22:26360
heating in ultra-fast thetatron pinch, 22:3010
heating in variable electric fields, resonance phenomena in, 25:14368
heating in wall-stabilized electric arcs, curvature effects on, 25:33213
heating near lower hybrid frequency, hf, (E), 25:36087
heating near lower hybrid resonance, resistive loading in, (E/T), 25:19653
heating of alkali, electron cyclotron, 21:20943 (MATT-Q-23, pp 91-179)
heating of alkali, electron cyclotron resonance, 21:35132 (CONF-670104-Pt.2, pp 543-62)
heating of alkali, method for electron cyclotron resonance, 22:1149
heating of carbon-arc, excitation—, (E), 23:23077
heating of collisionless, by hydromagnetic waves, (T), 23:5161
heating of collisionless, by strong shock waves, (E), 23:32344
heating of collisionless, research on rf, 21:20917(R) (ORO-3110-8)
heating of current-carrying turbulent, stochastic, (T), 25:40589
heating of cylindrical, rf, 22:31791
heating of dense hydrogen, ohmic, (E), 22:22124
heating of dense magnetized, microwave method for electron component, 22:34578 (CLM-R-78)
heating of deuterium ions, in very fast theta pinch, (E), 23:23069
heating of deuterium theta-pinch, by lasers, (E/T), 25:45455
heating of deuterium—tritium, by lasers, (T), 25:58965
heating of electron component of magneto-, by magnetic perturbations, (T), 25:25085
heating of electrons by injection of hot molecules, (T), 25:45485
heating of electrons by large hf electric fields, anomalous, (E/T), 25:27675
heating of electrons by nonresonant microwaves, (E), 23:18577 (CONF-680113-(Vol.1), pp 87-100)
heating of electrons by uhf fields and of ions by hf fields in magnetic mirror, 22:44076 (NP-17567)
heating of electrons in beam—plasma system, (E), 24:10525(T) (AEC-tr-7107)
heating of electrons in beam—plasma system, wave, 24:3367
heating of electrons in homogeneous, quasilinear theory of Cherenkov, 22:29466
heating of electrons in magnetic traps, adiabatic, (E/T), 22:24256(T) (NP-tr-1646)
heating of electrons in magnetic-mirror-confined, by electron beams, (E), 24:8432
heating of electrons in magnetized, resonances in anomalous microwave, (E), 25:56124
heating of electrons in weakly ionized, by hf electromagnetic waves, (T), 23:32310
heating of hydrogen, by ion cyclotron resonance, (E), 23:51596
heating of hydrogen, by large amplitude ion cyclotron wave, 21:46314
heating of hydrogen, induction, 21:9524 (NASA-CR-657)
heating of hydrogen, induction system performance for, 23:1362 (N-68-29888)
heating of hydrogen, ion energy distribution in turbulent, (E), 25:56131
heating of inhomogeneous collisional, by magnetic pumping, (T), 23:14742
heating of inhomogeneous collisional, magnetic pumping, (E), 23:44384 (CONF-680113-(Vol.5), pp 107-11)
heating of inhomogeneous collisional, using magnetic pumping, (T), 23:18585 (CONF-680113-(Vol.1), pp 485-90)
heating of inhomogeneous cosmic, density-dependent, (T) , 25:56126
heating of ions and electrons in, cyclotron resonance, (E) , 24:30306 (IPP-2/81)
heating of ions by electrostatic ion cyclotron waves, low-loss coupling method for, 25:58962 (IPP-IV-25)
heating of ions by external stochastic fields, (E), 23:18595
heating of ions by MHD waves in, theory of turbulent, 22:48137
heating of ions by modulated electron beams, (E/T), 24:49104(R) (UCB-34-P-128-15)
heating of ions by two-stream instabilities in external magnetic fields, (T), 25:27672
heating of ions in current of nonisothermal, turbulent, (T), 21:27121
heating of ions in hf discharges, skin effects in, (E), 24:23947
heating of ions in magnetic mirror traps, using electron and atomic beams, (E), 24:49111
heating of ions in magnetized, nonlinear resonant, (T), 24:51614
heating of ions in ORMAK II, neutral-beam, (T), 24:37428 (ORNL-TM-3076)
heating of ions in skinned hf discharges, turbulent, (E), 24:23944 (NP-18187)
heating of ions in strongly nonuniform magnetic field, turbulent, (T), 24:3301
heating of ions in, anomalously turbulent, (T), 23:18592
heating of ions in, by exciting drift-beam instability, (T), 24:47193
heating of laser-produced, at lower hybrid resonance, (E), 25:58960 (CEA-CONF-1831)
heating of layers during expansion of plasma cylinder in parallel magnetic field, discovery of nonlinear, 23:5436(T) (JPRS-46727)
heating of Lorentzian, using electric fields, (T), 21:46310
heating of magnetically confined, by lasers, 24:42702
heating of magnetized, nonlinear resonant, (T), 25:30473
heating of magnetized, shock wave, (E/T), 22:1135 (LA-3770, Paper B8)
heating of magnetized, using magnetic field perturbations, (T), 24:47199
heating of plasmoids in axially symmetric magnetic fields, (T), 21:3810
heating of solar-wind, by hydromagnetic waves, (T), 23:14534
heating of thermal, in inner magnetosphere, 21:15030
heating of theta-pinch, by carbon dioxide lasers, (T), 25:45454
heating of theta-pinch, by shock waves, (E), 25:38384 (CONF-710607-123)
heating of toroidal betatron, turbulent, (E), 23:42229
heating of toroidal confined, current-induced turbulent ion, (E), 25:5069
heating of toroidal stabilized pinch, by relativistic electrons, (E/T), 25:33209
heating of toroidal, numerical simulation of turbulent, (T) , 25:11862
heating of toroidal, turbulent, 22:48082
heating of toroidal, turbulent, (E), 23:16773
heating of turbulent, by magnetic pumping, (T), 25:36083
heating of turbulent, in Burnout V, (T), 25:38348 (CONF-710607-62)
heating of turbulent, nonlinear problems in stochastic, (T), 25:7391
heating of turbulent, pressurized switching unit to start and crowbar experiment on, 22:46103 (IPP-4/52)
heating of weakly ionized by rf fields, nonlinear, (T), 24:12780
heating of, anomalous resistance during turbulent, (E/T), 24:23948
heating of, burner designed for, 21:807(P)
heating of, computer simulation of, 25:1200(R) (UCB-34-P-128-16)
heating of, computer simulation of electron cyclotron resonance, 24:35446(R) (COO-1695-27)
heating of, computer simulation of electron cyclotron, (T), 25:1199 (CEA-CONF-1617)
heating of, cw microwave systems for electron-cyclotron, 21:3805 (ORNL-P-2669)
heating of, cyclotron resonance, (T), 22:24280 (MATT-Q-25, pp 257-303)
heating of, design and operation of high-current linear betatron for, 21:17246
heating of, design of rf amplifiers for, 25:7362
heating of, electric arcs for, 22:52738
heating of, electron cyclotron, (E), 23:14739(R) (LA-4075)
heating of, energy losses and performance of turbulent, (E), 23:36644 (IAE-1656)
heating of, instabilities in electron cyclotron, 21:44126(R) (COO-1695-4)
heating of, ion cyclotron, (E/T), 22:44081
heating of, ion-acoustic wave excitation in turbulent, 24:19924
heating of, kinetic theory for energy release in, 23:10673(T) (SC-T-68-1541)
heating of, kinetics of turbulent, (T), 23:12744
heating of, klystron amplifier for electron cyclotron resonance, 22:6702
heating of, linear turbulent, (E), 22:15511
heating of, magnetic field implosion technique for, 21:11599
heating of, noise diagnostics during turbulent, 24:19869
heating of, performance of Faraday-shielded Stix coil for ion cyclotron resonance, 21:731
heating of, performance of ion cyclotron, (E), 23:32308(T) (NP-tr-1775)
heating of, performance of rf structures for, (T), 24:40099
heating of, power requirements for various methods of, 25:43333 (MATT-803)
heating of, properties of stochastic magnetic pumping, 21:39980
heating of, quasi-linear theory of Cherenkov, 22:17620
heating of, research on turbulent, 25:33205(R) (NYO-3958-4)
heating of, research on turbulent, (T), 23:42289(R) (NYO-3782-3)
heating of, research on, (E/T), 23:8568 (ORNL-TM-2337)
heating of, review of hf, 21:15098
heating of, shock tube development for, 21:15094
heating of, skin effect and anomalous resistivity in turbulent, (E), 25:47501
heating of, stochastic model for electron cyclotron, 21:44020 (ORNL-4150, pp 1-35)
heating of, stochastic, (T), 23:1356 (JINR-P9-4044)
heating of, superconducting storage circuit for energy transfer in, 24:30307(P)
heating of, theory of stochastic, 22:26350 (IPPCZ-77)
heating of, turbulent, 22:7258
heating of, use of industrial magnetrons for, 22:24281 (MATT-Q-25, pp 305-20)
heating of, use of lasers for, 22:44132
heating of, using modulated electron beams, 21:13531 (ORNL-4063, pp 36-70)
heating simulation during development of ion—acoustic instability, turbulent, 24:51605 (LA-4510)
heating using lasers, prospects for, 25:56128
heating using transverse current, turbulence in, 25:52771 (KHFTI-70-62)
heating with combined rf and steady magnetic fields, (E), 24:51609
heating, critical parameters for electrothermal instabilities in electron, (T), 23:42339
heating, difference frequency harmonic ion, 21:31391
helium metastable atom destruction in low-temperature, kinetics of and heating effects of, (E), 25:30512
helium-atom energy levels in, calculation of population densities of, 21:18680
helium-ion reactions with helium, excitation of oscillations in, (E), 23:32387
hydrodynamics of, 22:19986
hydrogen atom energy distribution from, at 2 keV to 1 MeV, methods for measurement and display of time-varying, 22:40378
hydrogen atom reactions with, ionization processes in, 22:20020 (IAE-1364)
hydrogen behavior in, quantum-mechanical cellular methods for determining, (T), 24:46894
hydrogen impurities in noble gas discharges, removal techniques for, 21:18659 (AD-641360)
hydrogen ion (H_3^+ and H_2^+) partition functions in equilibrium hydrogen, up to 60,000°K, (T), 22:46147
hydrogen ion (H_3^+) injection into lithium, proton energy losses in, 24:47225
hydrogen ion dissociation in lithium, molecular, 21:14991
hydrogen ion reactions with lithium at 20 to 50 keV, cross sections for proton production in, (E), 21:11656
hydrogen-ion reactions with hydrogen, wave excitation in, (E), 21:18674
hydromagnetic disturbances in cold, three-dimensional, (T), 22:34465

impurities in hf pulsed hydrogen, oxygen and silicon ion, (E), 21:7261
impurities in rare gas, transverse separation of metallic, 21:5281
impurities in surface of electron gas, screening of, (T), 22:3098
impurity removal by injection across octupole magnetic fields, (E), 23:51633
impurity segregation in, cataphoretic, (E/T), 22:1259
information on, experiments in storage and retrieval of, 22:46096
information storage in collisionless, description of, 25: 25174
injection and buildup in mirror machines, neutral beam, 25:38367 (CONF-710607-97)
injection and confinement from atomic beam interactions with ECR-heated targets, (T), 25:58969
injection and confinement in B-3 and Etude stellarators, 22:26357
injection and confinement in caulked stuffed cusp magnetic field, (E/T), 23:44390
injection and confinement in closed quadrupole magnetic traps, (E), 24:51612
injection and confinement in cusp magnetic fields, (E), 22:17615
injection and confinement in cusp magnetic fields, (E/T), 23:51594
injection and confinement in cusped fields, (E), 23:8576
injection and confinement in diverters, (E), 24:10496(T) (AEC-tr-7108)
injection and confinement in Heliotron P device, (E), 23:25287
injection and confinement in L-2 stellarator with n = 2, 21:2197(T) (NP-tr-1430(Draft))
injection and confinement in magnetic fields, 24: 19868(P)
injection and confinement in magnetic mirrors, (E/T), 23:18586 (CONF-680113-(Vol.2), pp 677-99)
injection and confinement in magnetic mirrors, collisional, (E), 25:38366 (CONF-710607-96)
injection and confinement in magnetic traps with opposed fields, 21:18628
injection and confinement in minimum-B magnetic traps, neutral atom, 25:11859 (EUR-CEA-FC-563)
injection and confinement in MTSE II device, (E/T), 25:40588
injection and confinement in multipole structures, (E), 25:38324 (CONF-710607-2)
injection and confinement in spherical multipole magnetic traps, (E), 25:11863
injection and confinement in superconducting Levitron, neutral, 25:17125 (UCRL-50976)
injection and confinement in toroidal magnetic traps, (T), 21:18633
injection and confinement in toroidal octupole magnetic fields, (E/T), 25:38396
injection and confinement in toroidal quadrupoles, (E), 25:38330 (CONF-710607-8)
injection and confinement of cesium, in magnetic mirrors, (E), 25:27671
injection and confinement of electron cloud, in toroidal magnetic fields, (E/T), 24:8435
injection and confinement of hot electron, in magnetic mirrors, (E), 23:23067
injection and dissociation of hydrogen granions in INGRA device, 25:38361 (CONF-710607-89)
injection and motion in transverse magnetic fields, (E), 23:8582
injection and transmission in curved-field mirror machines, 21:728
injection experiment for loading a magnetic field, 22: 11404(R) (LA-3831)
injection in axially symmetric magnetic fields, instabilities from, (E), 21:3900
injection in magnetic fields, confinement properties of two-beam, 21:18630
injection in Sirius stellarator via diverter, (E), 23: 30519(T) (MATT-Trans-86)
injection in transverse magnetic fields, diagnostics of, (E), 21:3822
injection in transverse magnetic fields, properties of, (T), 21:3868
injection into 2X mirror machine, large-area high-current ion source for, 25:56212 (LBL-35)
injection into adiabatic magnetic mirrors, solution of Lorentz force equation for, (T), 23:23073
injection into Baseball II, multi-aperture 1-kV ion source for, (E), 25:56217 (UCRL-73387)
injection into closed magnetic configurations, (T), 22: 19940
injection into closed magnetic systems, polarization measurements from, 21:29272
injection into closed magnetic trap with two-phase helical field, (E), 21:18737
injection into closed magnetic traps with double-helix field, (E), 23:12750
injection into curvilinear magnetic fields, instabilities in, 24:40117
injection into cusp magnetic fields, reflection of waves in high-β, (E), 22:48123
injection into cusped magnetic fields, (T), 21:15163
injection into cusped magnetic fields, microwave diagnostics of, 21:18641 (NP-16588)
injection into cusped magnetic geometries, 20-keV hydrogen ion beam, 25:47554 (NP-18939)
injection into double curvature magnetic geometries, ion drift in, 22:3038 (CEA-R-3278)
injection into double-bend magnetic fields, drifts and purification in, (E/T), 23:39457
injection into guide field of rings of, probe measurements of, 21:27137
injection into Heliotron C, confinement in, (E), 24: 12786
injection into levitated toroidal quadrupole, azimuthally localized fluctuations in, (E), 22:29484
injection into linear multipoles, motion in, 24:42647
injection into linear octupole and Ioffe fields, high-β, (E), 24:49134
injection into linear octupole and quadrupole guide fields, motion in, (E), 23:42279
injection into linear octupole magnetic fields, energy properties in, (E), 23:18618 (AD-671512)
injection into longitudinal magnetic fields, adiabatic motion of, 21:5266
injection into longitudinal magnetic fields, electrostatic instabilities from, (T), 21:27209
injection into longitudinal magnetic fields, steady-state properties of, 21:16931
injection into magnetic barriers, shock formation in, (E), 23:12815
injection into magnetic cusp, diamagnetic, 21:18620 (NP-16612)
injection into magnetic dipole fields, properties of, (E), 22:13481
injection into magnetic field of divertor, interactions in, (E), 23:25326
injection into magnetic fields, plasmascope observations of, 23:3436 (CLM-R-82)
injection into magnetic fields, resonant and near-resonant wave—particle interactions in, (T), 22:34660 (TID-24491, pp 183-92)
injection into magnetic funnels, shock production in, (E), 24:47210
injection into magnetic mirrors, accumulation in front of, (E), 22:34584
injection into magnetic mirrors, collision processes in neutral atom, (E/T), 25:40615
injection into magnetic mirrors, Fokker—Planck equations for hydrogen formation in, 22:26434
injection into magnetic mirrors, shock wave formation in, (E), 25:43359
injection into magnetosphere, (T), 23:30449
injection into mirror machines, ion source development for, 25:56213 (LBL-327)
injection into mirror trap with adiabatic compression, 21:27120(T) (UCRL-Trans-1282(L))
injection into quadripolar field coils, buildup in, (T), 25: 1160 (CEA-CONF-1604)
injection into quadrupole magnetic fields, trapping in, (E), 25:30450(R) (LA-4585)
injection into stellarators with double-helix-type magnetic fields, trapping in, 22:15508
injection into stellarators with oblique magnetic fields, diffusion in, 23:8599 (NP-17664)
injection into stellarators, external, 21:2196(T) (NP-tr-1429)
injection into superconducting quadrupolar coils, atomic beam, (E), 25:38511 (EUR-CEA-FC-580)
injection into superconduction levitron, hydrogen, (E), 22:19972 (UCID-15295)
injection into thermonuclear devices, duoPIGatron source for, 25:56208 (CONF-711012-9)
injection into toroidal magnetic field, confinement in, (E), 23:12755
injection into toroidal magnetic fields, motion in, (E), 24:3300
injection into toroidal octupole device, magnet coil system for, (E), 22:19926 (GA-7423)
injection into toroidal octupole fields, magnet coil design for, 21:30585 (CONF-661016, pp 229-34)
injection into toroidal systems, performance for heating and startup, 25:38505 (CONF-710607-130)
injection into transverse magnetic field, ring formation in, 22:9318
injection into transverse magnetic fields, (E), 23: 14739(R) (LA-4075)
injection into transverse magnetic fields, boundary layers from, (T), 22:7277
injection into transverse magnetic fields, polarization from, 21:29273
injection into transverse magnetic fields, polarized, (E), 24:3299
injection into uhf fields, anomalous decay of collisionless, (E), 24:28264
injection of 4-MeV H_2^+ ions in magnetic mirrors, accumulation in, 25:9506 (ORNL-TM-3207)
injection of Circe-type, into Pleiade accelerator, (E), 21: 31460
injection of fast atomic deuterium into high-temperature, penetration of, (T), 25:59030
injection of high-β, into longitudinal magnetic fields, rotation in, (E), 24:10527
injection of hydrogen ions (H_2^+) into magnetic mirrors, magnetron source for, 24:45276
injection of lithium hydride particles into laser beams, apparatus for, 25:22551
injection of loop configuration into transverse magnetic field, oscillations from, (E), 25:1195
injection of neutral hydrogen, in torus, (T), 22:19930 (UCID-15298)
injection of neutral hydrogen, into stabilized magnetic mirrors, (E), 25:38363 (CONF-710607-92)
injection of, development of intense ion and neutral sources for, 25:56218 (UCRL-73412)
injection system for magnetic mirrors, design of multi-ampere duoPIGatron source for, 25:45510 (ORNL-TM-3472)
injection through diverter of closed magnetic trap, method for, 24:49197
injection, heating, and confinement in stellarators, (E), 23:32329
interaction in magnetosphere, 21:677(R) (AD-632266)
interactions between cosmic, and neutral gas, (T), 24: 47101 (NP-18421)
interactions in cold mercury vapor discharges at low pressure, 24:1396
interactions in cold, nonlinear extraordinary, (E/T), 23: 39509
interactions in magnetic field of divertor, (E), 23:36667 (FTI-166)
interactions in magnetic field of divertors, (E), 23:36668 (FTI-167)
interactions of argon and neon, in pseudo equilibrium with additions, 25:59018
interactions of astrophysical, (T), 25:14072
interactions of astrophysical, with neutral gases, (T), 25: 16703
interactions of clouds of, cross sections for two and three dimensions, (T), 24:42725(R) (UCB-34-P-128-11)
interactions of clusters of, in magnetic field of divertor, (E), 24:3333(T) (NP-tr-1858)
interactions of counterstreaming laser-produced, (E), 25: 22517
interactions of flowing, with magnetic fields, 21:37421
interactions of fully ionized, with neutral gas blanket, (E), 25:25113
interactions of laser-produced, with strong magnetic induction, (E), 25:14334
interactions of laser-produced, with strong transverse magnetic fields, (E), 25:22512
interactions of laser-produced, with uniform magnetic fields, (T), 24:51683 (EUR-CEA-FC-548)
interactions of moving, with dipole field, (E), 22:17491
interactions of shock-heated with magnetic fields, arc phenomena in, (E), 23:16801
interactions of shock-heated, with magnetic fields, arc phenomena in, (E), 23:32375
interactions of two laser-produced lithium deuteride, interpenetration from, (E), 24:12806
interactions with axially symmetric magnetic fields, (E), 21:3872
interactions with axially symmetric magnetic fields, diagnostics of, 21:3823
interactions with axially symmetric magnetic fields, (E/T), 25:52793 (KHFTI-70-50)
interactions with axially symmetric magnetic fields, (E), 21:3871
interactions with axially symmetric magnetic fields, probe measurements of, (E), 23:25324
interactions with barium, with electric and magnetic fields around the Earth, (T), 23:14686
interactions with beams in beam-generated systems, (T), 22:22166
interactions with cloud of carbon dioxide sublimed from dry ice, (E), 22:13146
interactions with containing hf-traveling magnetic field, (E), 23:32383
interactions with corrugated magnetic fields, boundary stabilization of, (E), 21:3901
interactions with corrugated magnetic fields, skin effect in, (T), 25:40617
interactions with dipole magnetic fields, (T), 22:17509
interactions with dipole magnetic fields, standing bow shock from, (E), 23:48897
interactions with divertor magnetic field, (E), 23:25327
interactions with electric and magnetic fields, polarization from, 21:35190
interactions with electric fields, nonlinear dielectric function and fluctuations in, 24:24001
interactions with electric fields, one-dimensional Vlasov, (T), 22:39073 (N-68-21096)
interactions with electric fields, penetration in, (T), 23: 5415
interactions with electric fields, properties in, (T), 24: 23998
interactions with electric fields, response of Vlasov, (T), 22:52781
interactions with electric fields, shielding in, (T), 24: 21797
interactions with electromagnetic fields in conducting cylinders, nonlinear skin effect in, (T), 23:36704
interactions with electromagnetic fields, anomalous skin effect in, (E), 23:32401
interactions with electromagnetic fields, anomalous skin effect in, (T), 25:40633
interactions with electromagnetic fields, anomalous skin effect in bounded, (E), 23:23113
interactions with electromagnetic fields, penetration depth in, 23:12797
interactions with electromagnetic fields, radiation pressure from time-averaged stress tensor for, 23: 16772
interactions with electromagnetic fields, skin-effect theory for, 21:5289
interactions with electrostatic fields, penetration in, (T), 25:27707
interactions with grid in single-ended Q-devices, (E), 24: 8459
interactions with hf electromagnetic fields in magnetic fields, properties of, 22:52771 (CONF-671127, pp 215-60)
interactions with hf electromagnetic fields in presence of Hall effect, (T), 24:12823
interactions with hf electromagnetic fields, drift instabilities from, (T), 25:36177
interactions with hf electromagnetic fields, penetration in case of Ohm's law, (T), 24:28354
interactions with hf fields, circuit design for analysis of, 25:38518 (NP-18895)
interactions with hf fields, parametric excitation of surface oscillations in, (T), 24:8497
interactions with hf fields, R-Ohm installation for studying, 25:30508 (NP-18801)
interactions with hf fields, research on, 22:26349(R) (IPPCZ-72)
interactions with hf magnetic fields increasing toward periphery, (E), 23:32459
interactions with high magnetic fields, dielectric function and magnetization waves in, (T), 23:34436
interactions with high-frequency magnetic fields, penetration in, (E/T), 22:31802 (D-1-82-0706)
interactions with high-frequency magnetic fields, penetration in, (T), 23:32429
interactions with inhomogeneous transverse magnetic fields, (E), 25:38426
interactions with inhomogeneous transverse magnetic fields, (E), 25:43355
interactions with large magnetic fields, relaxation effects behind shock fronts in, 24:42671

interactions with large-amplitude hf fields, nonlinear theory for, 25:47582 (MATT-835)

interactions with linearly increasing transverse magnetic fields, reflection of, 21:46351

interactions with longitudinal electric fields, penetration in, (T), 23:51650(T) (JPRS-46949, pp 23-32)

interactions with longitudinal electric fields, penetration in, (T), 22:50163

interactions with longitudinal magnetic fields, rotational effects in, (E), 24:10527

interactions with low-frequency magnetic fields, diffusion in, (E/T), 25:17154

interactions with magnetic dipoles, measurement of, 22:26298(T) (MATT-Trans-56)

interactions with magnetic field in Jovian magnetosphere, (T), 23:44146

interactions with magnetic field of n line currents, time-dependent motions of cavity from, (T), 23:12840

interactions with magnetic fields, 21:27118(T) (LA-tr-65-30)

interactions with magnetic fields in Delta device, Hall effects on, 24:28256

interactions with magnetic fields in diverters, (E), 24:10524(T) (AEC-tr-7105)

interactions with magnetic fields in divertors, (E), 24:3334(T) (NP-tr-1859)

interactions with magnetic fields in theta pinch, collisionless coupling in, (E), 25:22482(R) (ORO-3393-5)

interactions with magnetic fields in toroidal cusp and mirror fields, high-β, (E), 24:28261

interactions with magnetic fields in travelling-wave accelerators, one-dimensional analysis of, 22:1516 (AD-646778)

interactions with magnetic fields, anomalous skin depth from cylindrical, (E), 21:2210

interactions with magnetic fields, anomalous skin effect in, 22:31801 (D-1-82-0705)

interactions with magnetic fields, effect of anomalous viscosity on skin effect in, (T), 25:33273

interactions with magnetic fields, effects of ion-acoustic instability on skin effect in, (T), 24:10543

interactions with magnetic fields, exact solutions for tenuous, (T), 25:43379

interactions with magnetic fields, expansion and shock wave formation due to, 22:41578

interactions with magnetic fields, inductance coefficients for plasmoid, (T), 21:3870

interactions with magnetic fields, movement in, (E), 23:12810

interactions with magnetic fields, properties of, 21:9403

interactions with magnetic fields, properties of constant-velocity traveling-wave, (E), 21:2263

interactions with magnetic fields, skin effect in, 22:44131

interactions with magnetic fields, skin effect in, (T), 25:36138

interactions with magnetic fields, stability in, (T), 24:12774(T) (AEC-tr-7119)

interactions with magnetic fields, temperature distributions in arc, 21:755(R) (AD-631569)

interactions with magnetic fields, theta pinch gun for studies of high-beta, (E), 24:42675

interactions with magnetic fields, wave excitation at interface of, (T), 22:19999

interactions with magnetostatic field gradient from axial current, plasmoid, (T), 23:12862

interactions with neutral gas blanket, in poloidal magnetic fields, (E/T), 25:11878

interactions with nonuniform magnetic fields, (E), 21:3873

interactions with nonuniform magnetic fields, retardation in, 21:37486

interactions with oblique magnetic fields, (T), 24:10534(T) (AEC-tr-7113)

interactions with photon gas, energy transfer from Compton collisions in, (T), 24:47256

interactions with plasma jets in quasi-stationary discharges, (E), 23:44414

interactions with pulsed ac electric fields, response of Lorentzian, (T), 24:40081

interactions with pulsed electric fields, relaxation of Lorentz, (T), 23:44434

interactions with pulsed electric fields, response to, (E), 22:24329

interactions with radial magnetic fields in shock tubes, 22:48114

interactions with rf fields, average force in, (T), 25:49904

interactions with sputtered wall materials, (T), 25:30497 (EUR-4593, pp 471-7)

interactions with strong hf electromagnetic fields, properties in, (T), 24:17921(T) (MATT-Trans-96)

interactions with time-varying sinusoidal magnetic fields, heating and cooling effects of, (T), 24:47199

interactions with toroidal magnetic fields, diagnostics of, (E), 21:3824

interactions with toroidal magnetic fields, electric fields from, (E), 21:3874

interactions with transverse electric fields, resonant behavior of bounded, (E/T), 24:10521

interactions with transverse magnetic field, longitudinal polarization in, (E), 23:51635

interactions with transverse magnetic fields in shock tubes, (E), 23:14781

interactions with transverse magnetic fields, induced voltage from, (T), 24:40077(T) (AD-705162)

interactions with transverse magnetic fields, properties of, (E), 23:23118

interactions with traveling magnetic field, reactive energy production in, 22:41604

interactions with turbulent gas flow, response of weakly ionized argon, (E), 24:51647

interactions with uhf fields, parametric excitation of longitudinal oscillations in, (T), 23:51726

intercombination oscillator strengths in helium sequence in, (T), 23:41853

ion acceleration from hot, method and apparatus for, 24:28255(P)

ion acceleration in electron—cyclotron-heated, induced radioactivity from, (E), 24:51644

ion acceleration under action of varying electric field, anomalous, (E), 24:3347

ion and electron temperature calculations for fusion, 24:28339

ion beam excitation of drift waves in cesium and potassium, 21:9584

ion beam extraction from quiescent argon, with variable T/sub i//T/sub e/, 24:26186

ion beam extraction from, computer program for calculating surface shape and particle trajectories for, 22:41585

ion beam extraction from, ion optical system for dense, 21:43815

ion beam injection into, performance of duoplasmatron for, 25:7376 (IPP-2/87)

ion beam interaction with, efficient transfer of energy during, (E), 25:30511

ion beam interactions in, low-frequency instabilities in, (T), 24:3377

ion beam interactions with bounded electron, oscillations from, (E), 23:25320 (BMwF-FBK-69-3, pp 19.1-19)

ion beam interactions with bounded, electrostatic instability of, (T), 21:9574

ion beam interactions with cesium, drift wave excitation in, 21:20943 (MATT-Q-23, pp 91-179)

ion beam interactions with confined, wave structure in, (E), 23:32517

ion beam interactions with electron, hf instabilities from proton, (E), 23:51628

ion beam interactions with homogeneous oscillations from, (E), 22:19961 (IAE-1400)

ion beam interactions with hot-electron, instabilities from, (E), 25:9450

ion beam interactions with magneto-, quasi-linear solutions for, 25:19694

ion beam interactions with nonisothermal, oblique ion wave excitation in, (E), 23:32542

ion beam interactions with toroidal-confined, driving of currents in, 24:35480

ion beam interactions with, collisionless relaxation of, (E), 25:38420 (CONF-710607-58)

ion beam interactions with, electron heating in counterstreaming, (T), 24:19870

ion beam interactions with, energy loss in test, (T), 23:44431

ion beam interactions with, energy losses of fast test ions in, (T), 24:1432

ion beam interactions with, excitation of ion cyclotron oscillations in, (E), 24:49141

ion beam interactions with, explosive three-wave interactions from, (T), 24:47238 (NYO-3782-4, App.14)

ion beam interactions with, instabilities from, (E), 22:5350

ion beam interactions with, ion cyclotron instabilities from, (E), 25:52840 (IAE-2044)

ion beam interactions with, ion-wave propagation from, (T), 25:7423 (IPPJ-98)

ion beam interactions with, lectures on, 21:37493

ion beam interactions with, low-frequency oscillations from, (E), 25:52812

ion beam interactions with, nonlinear explosive instabilities from wave coupling in, 25:33304

ion beam interactions with, oscillations from, 21:15142

ion beam interactions with, oscillations from, 21:16940

ion beam interactions with, oscillations from, 24:35406(T) (AD-704009)

ion beam interactions with, research on, (E/T), 22:26349(R) (IPPCZ-72)

ion beam interactions with, self-consistent field approximation for, (T), 21:11647

ion beam interactions with, two-stream instabilities from, (E/T), 24:10519

ion beam interactions with, wave excitation in, (T), 23:14830(T) (AEC-tr-7017)

ion beam production having two components of velocity distribution, 24:45289

ion beam scattering on turbulent oscillations in, (E), 25:1180

ion burst excitation by grids in, (T), 25:5122 (COO-2059-4)

ion burst excited by pulsed mesh grid in, characteristics of, (E), 24:15365

ion burst velocity in, calculation, 24:35503

ion clusters in, electron structure of Ar_{33}^+, 24:40078 (IFA-FT-82)

ion conversion in xenon afterglow, atomic—molecular, (E), 25:40630

ion cooling in Q devices, differential, (E), 23:23109 (RISO-188)

ion correlations in hf electric fields, effect on conductivity in, (T), 24:26203

ion currents behind spheres in rarefied, (E), 22:44009

ion cyclotron instabilities and effects of microwave heating in PHOENIX II, (T), 23:32465

ion density of nitrogen, effects of electron distribution function on, (E/T), 24:3325

ion detection in low-pressure linear pinch, highly ionized, (E), 25:27678 (WASH-1159, pp 172-83)

ion diffusion and mobility in hydrogen, (E), 23:23122

ion diffusion in strong electric fields in presence of charge-exchange collisions, (T), 23:12851

ion dissociation in layered oxygen, (E), 21:3863

ion distribution function and viscosity tensor of fully ionized collisional, (T), 24:35420

ion distribution function for high-current z discharges, (E), 25:59024

ion distribution function for low-pressure neon, effects of step ionization on, (T), 25:30525

ion distribution function from ion—acoustic wave excitation in, (E/T), 23:25312

ion distribution function in sheath near pulsed transparent grid, (T), 25:43369

ion distribution function in toroidal octupole, (E/T), 24:17900

ion distribution function measurement in toroidal octupoles, (E), 25:11872

ion distribution functions for Alice experiment, effects of ion cyclotron instabilities on, (T), 23:32424

ion distribution functions for collisionless surface ionized, (E/T), 25:5098

ion distribution functions for homogeneous, 22:48084

ion distribution functions for homogeneous, 22:48084

ion drift in L-1 stellarator, motion of, (E/T), 25:38371 (CONF-710607-104)

ion drift in single-ended Q devices, measurement using radioactive test ions, 25:33260

ion emission from discharge, effects of wall space-charge on, (E), 23:16798

ion emission from hot, energy spectra of, 21:23161 (CEA-R-3129)

ion emission from laser-produced lithium hydride and lithium deuteride, 21:42126

ion emission from Penning discharges, in inhomogeneous magnetic fields, 24:37454

ion emission from thermal and nonthermal, highly-ionized, (E), 23:39881

ion energy analysis from linear theta pinch, using multichannel analyzers, (E), 24:5161 (IPP-1/98)

ion energy balance in hydrogen positive column, (E), 23:42276

ion energy dispersion from rf, measurement of, (E), 24:28247 (IPPJ-87)

ion energy distribution in back-diffusion type, control of, (E), 24:42673

ion energy distribution in Tokamak devices, hydrogen, 22:19944

ion energy distribution in toroidal devices, (E/T), 25:49885

ion energy distribution in, design of trochoid spectrometer for measuring, 21:12718(T) (NP-tr-1484)

ion energy level population in, relaxation in, (T), 22:31857

ion energy loss in weak magnetic field, fast test, (T), 23:48910

ion energy loss in, test, (T), 24:12828

ion energy losses in lithium arc, fast test hydrogen, (E), 24:12801 (EUR-CEA-FC-472)

ion energy losses in magnetized, test, (T), 24:35429

ion energy losses in, Coulomb logarithm for test, 24:44972 (ORNL-4545, pp 124-37)

ion energy spectra of laser-produced aluminum, (E), 22:1217

ion excitation in mercury gas-discharge, spectroscopic study of mechanisms for $6\,^3P(^1/_2)$ state of, 22:41319

ion existence in helium, He_3^+ and He_4^+, (E), 23:34413

ion extraction from hot-electron, heavy-, 24:37178 (ORNL-TM-2981)

ion extraction from puffs of, in magnetic guide fields, (E), 24:40073

ion extraction from rf, energy dispersion of, (T), 24:35432

ion extraction from, effects of space charge layers on, (T), 24:32835

ion formation and dissociative recombination in argon, helium, and neon, temperature dependence of diatomic, (E/T), 23:8607

ion formation in helium-3—metal vapor, in field-free regions, (E), 23:23106 (AE-350)

ion frequency in, use of low pressure alkali metal vapor thermionic cells for analysis of, 22:33087 (ANL-7310, pp 513-22)

ion heating in heavy-current arcs in longitudinal magnetic field, anomalous, (T), 25:38398

ion heating using whistler waves, difference-frequency harmonic, (T), 24:32810

ion impurities in anisotropic deuterium, relaxation of, (T), 23:23127 (IPP-1/91)

ion injection in, performance of helium hydride for, 21:7270

ion interactions with density pulses in Q machine, (E), 24:45240

ion kinetics in argon afterglow, mass spectrometer analysis of, (E), 24:23971

ion losses from magnetically confined hf-heated, energy of, 21:15095

ion losses from magnetically confined hf-heated, energy of, 21:15096

ion mass conversion in krypton afterglow, (E), 24:23972

ion measurements in hydrogen glow discharge, mass spectrometric, (E), 23:34393

ion metastable levels in low-density nebular, SII and ArII, 24:35054

ion mobilities in pure argon and neon afterglow, 22:44153

ion mobility in afterglow, effect of impurities on, (E), 23:42274

ion mobility in high-pressure argon, (E), 23:14775

ion mobility in rare gas, properties of, (E), 22:31833

ion motion effects on spectra line broadening in, (T), 24:47248

ion motion in electric fields, (T), 22:13477

ion motion in homogeneous magnetic fields, calculation of, 22:17668

ion motion in, computer simulation of electric field-induced, 21:9566 (UCRL-14558(Rev.1))

ion motion in, in electric fields, 22:52807

ion oscillation quenching in, at sheath—plasma resonance, (E), 23:5411

ion production and loss in decaying helium—nitrogen, nitrogen, (E/T), 23:42258

ion production and loss processes in helium—nitrogen mixtures, (E), 25:59014

ion production in mirror-confined, multiply charged heavy, 24:21810

ion recombination in astrophysical, dielectronic, (T), 24:17576

ion recombination in decaying nitrogen, diffusion and surface catalysis in, (E), 22:19980

ion recombination in dense, effect of ionization resonance on nonequilibrium population during, (T), 25:30519
ion recombination on tungsten end plates of Q devices, cesium and potassium, (E/T), 24:5167
ion recombination rates from Burgess general formula for low-density, tables of dielectronic, 23:46230
ion relaxation in strong magnetic fields, fast test, (T), 24:1432
ion resonance excitation in magneto-, hf electromagnetic fields, 21:2223 (CEA-R-3053)
ion resonance in, theory for, 22:22172
ion sampling through anode and cathode of dc discharges in argon—cesium mixtures, (E), 24:1404
ion scattering by electric fields in inertially confined, (E), 25:11880
ion separation effects in boundary region of neutral-gas surrounded, (T), 24:47232 (NP-18420)
ion slip coefficients for partially ionized argon and helium, (T), 25:22532
ion slip in slightly ionized alkali-metal-seeded rare gas, (T), 22:46000
ion species in argon and argon—cesium rf discharge, (E), 23:30529
ion stream interaction with target, during recharging, (T), 22:46148
ion temperature in rarefied multicomponent, (E), 24:21668
ion temperature measurement in hot, spectrophotometer for, 22:5317
ion trajectories in Penning discharge tubes, effect of magnetic fields on, (T), 25:33247
ion trajectories in Penning discharges, calculation of, 25:36133
ion transitions in theta-pinch, Ne VII and Ne VIII 3s—3p, (E), 23:51627
ion velocity distribution from diffusion-type sources, (E), 24:42674
ion velocity distribution function in single-ended Q devices, shaping of, (E), 25:19670
ion velocity distribution functions for partially ionized, (T), 22:24306
ion velocity distribution in free-fall positive column, (T), 25:38439
ion velocity distribution in hf electric fields, anisotropy of, (T), 25:40643
ion velocity distribution in non-isothermal, relation to Maxwellian distribution, (T), 25:27722
ion velocity distribution in single-ended Q devices, cesium, (E), 24:23968
ion velocity distributions in magnetic-mirror compression experiment, 24:42726(R) (UCB-34-P-128-12)
ion velocity from, crossed-field velocity analyzer for determining, 24:16927
ion—electron beam emission from plane, (T), 23:12844
ion—molecule reactions in 50-MHz, kinetics of, (E), 22:52801
ion-density profiles in boundary layer of supersonic flow, electrostatic probe measurement of, (E), 21:8521
ion-sampling probe for, model simulation of rocket-borne, 21:34502(R) (AD-649854)
ionization and distribution of excited states in cesium, (T), 22:15520
ionization and heating by harmonic absorption of microwaves, (E), 25:3145 (CEA-CONF-1607)
ionization and motion in rf discharges, (E), 24:51646
ionization and recombination coefficients for helium, collisional-radiative, (T), 23:51647 (CEA-CONF-1396)
ionization and recombination coefficients for quasi-stationary hydrogen, (T), 23:39482
ionization and recombination coefficients in positive column glow discharges, (T), 25:36136
ionization and recombination in hydrogenic, model for, (T), 25:22531
ionization and recombination in low-temperature cesium, (T), 23:10658
ionization and recombination in low-temperature, theory of, 23:39493
ionization and recombination processes in hollow-cathode discharge, calculations, 24:40087
ionization and recombination processes in hydrogen, 22:24315
ionization and recombination rates in cesium-seeded argon, nonequilibrium, (E), 25:17158 (AD-712710)
ionization and volume recombination coefficients for quasi-stationary helium, (T), 25:30540
ionization behind shock waves, microwave measurement of argon, (E), 25:22540
ionization by electron impact in neon, rate coefficients for, (E), 22:52509
ionization by electron-fluid-dynamical waves, 22:24353
ionization by uv radiation in laser-produced, (E), 23:34441(T) (NP-tr-1790)
ionization calculations for inert gas, approximate methods for, (T), 24:10542
ionization coefficients for non-LTE cesium, effective, (T), 25:47559
ionization coefficients for oxygen, (T), 25:24887
ionization current sheets in un-ionized, propagation of, (T), 24:40096
ionization decay in collisionless, near critical density in uhf fields, (E), 23:39460 (NP-17962, pp 18-21)
ionization decay in hydrogen and deuterium discharge, (E), 24:3340
ionization decay in hydrogen and potassium, (T), 25:45484
ionization decay in hydrogen, collisional effects on, (T), 23:39483
ionization decay in neon—nitrogen, ion production and loss in, (E), 25:59019
ionization decay studies of hydrogen, using spectral and microwave analysis, 23:39468
ionization degree in nonequilibrium, equation for, 25:9435
ionization enhancement by laser radiation, (T), 24:30350
ionization equation for optically thin nonequilibrium, 21:13602 (AGARD-CP-8(Vol.2), pp 495-515)
ionization equilibria for oxygen, neon, silicon, and iron in, (T), 23:14530
ionization equilibria of elements having Z between 6 and 28 in low-density, at 10^4 to 10^8°K, (T), 23:22769
ionization equilibria of hydrogen-like and alkali-like, differences in, 21:20942 (IPP-3/52)
ionization equilibrium and population levels in two-temperature, (T), 25:1215
ionization equilibrium electron density and temperature measurements in, (T), 24:35417
ionization equilibrium in optically thin hydrogen and alkali-metal, 22:17663
ionization equilibrium in, effect of electron density on, (T), 22:34157
ionization equilibrium of hydrogen, (T), 25:14319
ionization equilibrium of low-density cosmic, (T), 23:48901
ionization equilibrium of nonthermal hydrogen, (T), 23:32423
ionization equilibrium of optically thick self-excited, simultaneous equations for, 25:33389 (CONF-710107-, pp 624-54)
ionization equilibrium of two-temperature, population densities in, (T), 25:22521
ionization for collisionless shock wave experiments by ultraviolet radiation, (E/T), 24:51684 (IPP-1/99)
ionization front velocity in cesium-seeded argon, effects of magnetic field on, 25:7396
ionization in combined z- and theta pinches, (E), 24:17910
ionization in combined z- and theta-pinches, 24:17949
ionization in discharges, effects of inelastic electron—atom collisions on, (T), 24:45260
ionization in electric discharges, asymptotic stability of wave equation for, 21:42130
ionization in hydrogen, derivation of Saha equation for equilibrium in, 23:8611
ionization in large inverse pinch device, 22:1257 (LA-3770, Paper H6)
ionization in low-voltage arcs, nonequilibrium, (T), 22:20025
ionization in nonequilibrium low-pressure cesium, excited states in, (T), 25:59008
ionization instability in nonsteady-state homogeneous, in absence of two-temperature approximation, (T), 25:33310
ionization instability of self-sustaining low-pressure discharges in strong transverse magnetic fields, (E/T), 25:36159
ionization kinetics of argon arc, 22:17695
ionization kinetics of cesium, in photoresonant conditions, (E), 24:40095
ionization level of equilibrium, Saha equation for, 21:20966
ionization levels in argon and cesium high-pressure discharges, 22:34643(R) (AD-666970)
ionization levels in cesium high-pressure discharges, (E), 25:45463(R) (AD-720713)
ionization levels in cesium, population of, 25:59034
ionization levels in hydrogen, with radiation absorption, 22:17662
ionization levels in low-current helium arc, population of, (E), 25:59017
ionization levels in recombining hydrogen, 21:44086
ionization levels in thin, effect of heavy-particle collisions on, (T), 24:51668
ionization levels in, partition functions for, 25:40621
ionization levels of carbon, nitrogen, and oxygen, population of, 22:31824
ionization lifetime in Tokamak TM-3 device, (E), 23:34374(T) (MATT-Trans-80)
ionization losses in astrophysical, (T), 22:29102
ionization measurements in electromagnetically driven shock tubes, precursor, 25:17190
ionization mechanisms in, (T), 22:13098
ionization of argon—potassium, by dc electric fields and metastable nitrogen molecules, 22:34680
ionization of cesium in low-voltage arcs, nonequilibrium processes in, 22:5381
ionization of cesium in low-voltage arcs, nonequilibrium processes in, 22:5382
ionization of deuterium, in toroidal high-β experiments, 25:30541 (IPP-1/114)
ionization of flowing argon—cesium, properties of electric arc, 21:20983
ionization of helium arc, effects of diffusion and mass currents on, (E/T), 23:30534
ionization of hydrogen in magnetic traps, cascade excitation of, 25:33290
ionization of uranium, relation to temperature and density, (T), 25:30536
ionization of, charge separation by recombination radiation, (T), 24:37471
ionization of, method for pre-, (E), 25:45489
ionization of, particle velocity distributions in contact, (E/T), 23:25365 (BMwF-FBK-69-3, pp 12.1-12)
ionization of, pre-theta-pinch, 21:3800 (CLM-R-62)
ionization of, rectangular pulse generators for, 24:42701(P)
ionization potential of atoms in, partition function for, (T), 25:43364
ionization processes in neon discharge, (T), 22:26433
ionization processes in, effect of radiative capture on, 22:52806
ionization properties with violation of intercombination forbiddenness in, 22:15536
ionization rate equations for magnetized, in reactive nonequilibrium, 23:10677
ionization rate in cesium discharge, effects of electric fields on, (T), 24:1434
ionization rate in shock-heated gases, measurement using lecher wire microwave method, 22:44087 (IPP-3/70)
ionization rate variations in ionization waves in, 24:21802
ionization rates for carbon, nitrogen, oxygen, and neon, collisional, (E), 25:17163
ionization rates for deuterium, in uniform electric fields, 22:7327
ionization rates in hf electric fields, (T), 25:22541
ionization rates in inert-gas, (E/T), 21:23195
ionization rates of neon in stellerator, temperature dependence of, 22:1232
ionization relaxation length in closed-cycle MHD generator channel, effects of radiation transport on, 23:48784
ionization relaxation processes in nonequilibrium, (T), 23:30553
ionization source for hydrogen and helium, for theta pinch experiments, 22:24355
ionization source for hydrogen, for theta pinch experiments, 22:24354
ionization wave excitation in positive columns by acoustic pulses, (E), 25:56154
ionization waves and transport parameters for, (T), 23:42308
ionization waves and transport parameters in, (E), 23:42271
ionization waves in discharge, nonlinear coupling of, 22:34651 (TID-24491, pp 74-6)
ionization waves in gaseous, 21:23175 (AD-637866)
ionization waves in gaseous, (T), 21:27165
ionization waves in helium positive column, axisymmetric, (T), 25:47546
ionization waves in positive column, feedback control of, (T), 25:27773
ionization waves in, rate variations in, (E/T), 24:40152
ionization—recombination processes in magnetic fields, 22:26409
ionizing, partition functions in, (T), 25:19397
iron-ion reactions with, optical emission from slowing down, 22:1245
kinetic coefficients of multicomponent nonisothermal, 22:44156
kinetic energy corrections for ionization of, Saha equation for, 24:28289
kinetic energy of Fermi, inhomogeneity correction for, (T), 23:23141
kinetic equation for, 23:12825
kinetic equation for completely ionized, 21:29259
kinetic equation for fully ionized, solution of Boltzmann, 21:25154
kinetic equation for high-frequency conductivity of, (T), 22:24334
kinetic equation for inhomogeneous, asymptotic, 21:9589
kinetic equation for inhomogeneous, derivation of, (T), 21:16929
kinetic equation for inhomogeneous, in magnetic fields, 22:46164
kinetic equation for low-density homogeneous, (T), 21:18727
kinetic equation for single-particle distribution function for, 25:52984
kinetic equation for unstable, 21:46332 (N-67-18433)
kinetic equation for unstable waves in weakly turbulent, general, 24:15328
kinetic equation for weakly turbulent collisional, 22:36935
kinetic equation for weakly unstable, 21:42081
kinetic equation for, extension to small wave numbers of, (T), 21:3849
kinetic equation for, unified, 24:32844
kinetic equation in external electromagnetic field, ring approximation, (T), 23:1409 (INR-P-926)
kinetic equation with electromagnetic interactions, 21:27188
kinetic equations for, 21:7235
kinetic equations for autocorrelation functions for, 25:3099
kinetic equations for classical, derivation of convergent, 21:18681
kinetic equations for drifted, Lenard—Balescu, 22:36938
kinetic equations for excitations and wave interactions, review of, 22:44113 (NP-17575)
kinetic equations for fully ionized, 24:15331
kinetic equations for motion in dipole magnetic fields, moment, 24:32736
kinetic equations for normal charged Fermi fluid, 23:3491
kinetic equations for unstable, 23:8596 (CEA-R-3525)
kinetic equations for unstable, ring approximation for, (T), 23:16820
kinetic equations for weakly turbulent magnetospheric, conservation, 22:52647
kinetic equations for, comparison of, 22:17674
kinetic equations for, difficulties in derivation of, 22:34696
kinetic equations for, generating function for exact solution of Vlasov, 25:7393
kinetic equations for, information—theory derivation for one-particle distribution function, 22:34697
kinetic equations for, partial summation derivation for one-particle distribution function, 22:34695
kinetic equations for, research on, 22:50126(R) (EUR-CEA-FC-352)
kinetic equations in, Lorentz transformation in Liouville, (T), 23:16912
kinetic equations including magnetic interactions for warm, 23:8612
kinetic equations, probabilistic derivation of BBGKY hierarchy, 22:44147
kinetic model for, generalized Fokker—Planck, 21:33455
kinetic model of magneto-, one-dimensional, 22:44168
kinetic theory and relaxation processes in weakly ionized, 23:1402 (AD-670218)
kinetic theory and transport properties of magnetized, (T), 23:32432
kinetic theory for, 21:20944 (NP-16644)
kinetic theory for clouds of, drag and diffusion coefficients for, 24:42726(R) (UCB-34-P-128-12)
kinetic theory for collisionless, in vhf electric fields and constant magnetic fields, (T), 25:40631 (NP-18885)

kinetic theory for electrons in external electric fields, Boltzmann equation for, 25:11898
kinetic theory for high-speed processes in, 24:19896
kinetic theory for homogeneous electron, in strong magnetic fields, (T), 24:10554
kinetic theory for near-surface electron temperature in weakly ionized, 23:39455
kinetic theory for non-resonant region, quasi-linear, 25:27717
kinetic theory for nonadiabatic harmonic oscillators, 24:42689
kinetic theory for quantum, spin-wave, 23:44417(T) (AEC-tr-7063)
kinetic theory for radiation interactions with, 23:48898 (AD-689230)
kinetic theory for transverse waves in, 25:30526
kinetic theory for, basics of, 21:9596
kinetic theory for, curvilinear polyadic moments of Boltzmann equation, 23:46472 (ORO-3895-2)
kinetic theory for, hierachies for Vlasov, 21:27156
kinetic theory for, phase-space hydrodynamics of equivalent nonlinear systems, (T), 24:21800
kinetic theory for, quantum, 24:10551
kinetic theory for, review of Vlasov, 21:18667 (N-66-24978)
kinetic theory for, using Debye—Hueckel approximation, 21:46365
kinetic theory in circular magnetic fields, Boltzmann equation for, (T), 25:19689
kinetic theory in electromagnetic fields, wave-mechanical, 25:11899
kinetic theory in external electromagnetic fields, Liouville equation for, 23:36699
kinetic theory in helically symmetric theta pinches, (T), 25:33317 (LA-4599)
kinetic theory in magnetic fields, 25:33277
kinetic theory in magnetic fields, classical self-correlation functions in, 24:30342
kinetic theory in magnetic fields, dispersion relations and sum rules for, 24:12822
kinetic theory in magnetic fields, Vlasov equation for, 24:49150 (SINP-TH-68-9)
kinetic theory in small electric fields, enlarged dispersion function in, (T), 25:38433
kinetic theory in steady magnetic fields, Boltzmann equation for, 25:19692
kinetic theory in strong external fields, nonlinear, 25:1214
kinetic theory in strong inhomogeneous magnetic fields, hydrodynamics of, 24:28284
kinetic theory in strong magnetic fields, quantum mechanical, 22:13493
kinetic theory in thermal equilibrium, quantum statistical, 25:25116 (ITF-70-93-P)
kinetic theory in weak electric fields, pressure and temperature gradients in, 24:30339 (N-70-21710)
kinetic theory in weakly inhomogeneous magnetic fields, for arbitrary collision frequency, 25:52830
kinetic theory of, 21:18741
kinetic theory of, 22:48106
kinetic theory of astrophysical, Compton effect in, 22:34664
kinetic theory of axially symmetric toroidal, perturbation, 25:14327
kinetic theory of bounded inhomogeneous, self-consistent solutions of Vlasov—Poisson equations, 23:36695
kinetic theory of classical Coulomb, effective field formulation for, 25:17175
kinetic theory of classical electron gas, 23:36692
kinetic theory of classical equilibrium, 22:50180
kinetic theory of classical relativistic, 23:16821
kinetic theory of classical, collision integral for, 25:38435
kinetic theory of classical, statistical mechanics of quadratic response functions for, (T), 25:47550
kinetic theory of collisional anisotropic, hydromagnetic equations for, 25:19674 (IPP-1/112)
kinetic theory of collisional, electron density fluctuations in, 25:33276
kinetic theory of collisionless, finite-Larmor-radius equations for, 25:56178
kinetic theory of collisionless, fluid dynamic equations including strong magnetic fields, 24:35435
kinetic theory of collisionless, general relativistic, 24:32840
kinetic theory of collisionless, Vlasov solutions for, 25:43368
kinetic theory of column of, 22:17692
kinetic theory of correlationless relativistic, with time-dependent background state, (T), 25:47531
kinetic theory of dense, (T), 23:18656
kinetic theory of dense, statistical, 23:51621
kinetic theory of dissipative, Lie-admissible model for, 23:51651
kinetic theory of dressed particles in, 23:48905
kinetic theory of electron, 23:12833
kinetic theory of electron, eigenfunctions of linearized Vlasov—BGK operator, 24:3379
kinetic theory of electron, extended ring summation for, 24:3380
kinetic theory of electron, with anomalous magnetic moments in magnetic fields, (T), 23:16809 (N-68-32069)
kinetic theory of expanding, into vacuum, (T), 24:8460 (MATT-736)
kinetic theory of finite beta, continuum equations for, 22:1184 (LA-3770, Paper B6)
kinetic theory of fluctuating homogeneous, Green's function for, (T), 25:25272
kinetic theory of fluctuations in turbulent, (T), 23:46474
kinetic theory of fully ionized two-temperature, Lenard—Balescu, 25:7390
kinetic theory of fully ionized, BBGKY hierarchy, 25:43376
kinetic theory of fully ionized, correlation functions for, 25:30523
kinetic theory of fully ionized, Mott—Smith solution of Fokker—Planck equation, 25:14295
kinetic theory of fully ionized, quantum, 24:21804
kinetic theory of fully ionized, statistical, 25:17169
kinetic theory of helium, outside local thermodynamic equilibrium, 25:38432 (EUR-CEA-FC-578)
kinetic theory of high-temperature, quantum statistical mechanics for, 22:9373
kinetic theory of highly nonequilibrium, 22:44159
kinetic theory of homogeneous, in unidirectional oscillatory electric field, 25:22527
kinetic theory of homogeneous, quantum, 25:17176
kinetic theory of hot, Compton Fokker—Planck equation for, 25:36137
kinetic theory of hydrogeneous, effective potentials for components of, 25:59042
kinetic theory of inelastic processes in, statistical, 22:20014
kinetic theory of inhomogeneous, 22:39069 (N-68-19082)
kinetic theory of inhomogeneous, 23:23128
kinetic theory of inhomogeneous electron, perturbation theoretic treatment of, (T), 23:18661
kinetic theory of inhomogeneous, (T), 23:14792
kinetic theory of inhomogeneous, Vlasov solution for, 23:5402
kinetic theory of injected hydrogen, solution of Fokker—Planck equations for, 21:44059 (NASA-SP-153, pp 85-90)
kinetic theory of interaction of positive-energy waves in, 24:35490
kinetic theory of ionized, with partial trapping of radiation, quasi-static, 24:19887
kinetic theory of Landau damping in, asymptotic method for Vlasov equation for, (T), 24:12866
kinetic theory of Landau damping in, asymptotic method for Vlasov equation for, (T), 24:12865
kinetic theory of lf electromagnetic properties of turbulent, 23:44416(T) (AEC-tr-7060)
kinetic theory of longitudinal excitations, linear response, 24:42683
kinetic theory of Lorentz, 22:24339
kinetic theory of Lorentz, Legendre polynomial development for, (T), 25:30522
kinetic theory of Lorentz, solid-angle integration of n-th stage tensors for, 23:3501
kinetic theory of magneto-active, in quasi-linear approximation, (T), 25:30532
kinetic theory of many particle systems, quasi-particle descriptions of classical, 24:37459 (AD-686856)
kinetic theory of Maxwellian, Boltzmann solutions for, 23:42323
kinetic theory of metal—nonmetal phase transition in dense, 25:38434
kinetic theory of mirror-confined hot-electron, Fokker—Planck equation for, 24:17932
kinetic theory of mirror-confined, solution of Fokker—Planck equation for, 24:49164
kinetic theory of multicomponent, model Fokker—Planck equations for, 23:12846
kinetic theory of multicomponent, with transport phenomena, 24:17926
kinetic theory of noncollisional, classical self-correlation functions in, 24:24002
kinetic theory of nondegenerate, quantum mechanics of static transport phenomena, 22:11467
kinetic theory of nonrelativistic fully ionized, quantum statistical, 24:47244
kinetic theory of one-component, particle correlations in classical, 24:28286
kinetic theory of partially and fully ionized, transport, 22:34698
kinetic theory of partially ionized, 22:17688
kinetic theory of partially ionized hydrogen, deviations from thermodynamic equilibrium, (T), 25:3106
kinetic theory of partially ionized hydrogen, Monte Carlo method for, 24:26205
kinetic theory of partially ionized hydrogen, statistical mechanics of, 24:23979
kinetic theory of partially ionized nonisothermal, unified transport theory, 24:28279
kinetic theory of partially ionized, Coulomb interaction and ionization equilibrium in, 23:44435
kinetic theory of partially ionized, effects of nonelastic collisions on, (T), 23:42292
kinetic theory of partially ionized, inelastic Boltzmann equation for, (T), 23:14789
kinetic theory of particle—wave interactions in turbulent, nonlinear, 24:12855(T) (AEC-tr-7129)
kinetic theory of quantum, in external magnetic field, 21:7236
kinetic theory of quantum, method of collective variables for, 23:51665
kinetic theory of rapidly changing, equations for occupation density of quantum levels in, 22:52797
kinetic theory of rarefied, hydromagnetic equations for, 25:45479
kinetic theory of relativistic scalar, 22:13462
kinetic theory of relativistic, Boltzmann equation for, 25:11765
kinetic theory of relativistic, energy-momentum tensor for, (T), 25:47532
kinetic theory of relativistic, general, 25:12058
kinetic theory of relativistic, in strong magnetic fields, 25:11903
kinetic theory of relativistic, Liouville equations for, 24:47247
kinetic theory of semi-infinite, correlation effects in, 24:40083
kinetic theory of shock structure in, Boltzmann equation for, 25:36126 (NYO-1480-173)
kinetic theory of spatially inhomogeneous, with time-independent average properties, 25:11895
kinetic theory of stable and unstable, research on, 22:24280 (MATT-Q-25, pp 257-303)
kinetic theory of stable and weakly unstable, 22:50179
kinetic theory of stable and weakly unstable, 23:12843
kinetic theory of stable and weakly unstable, (T), 23:20928
kinetic theory of strong turbulence in, statistical, 23:30557
kinetic theory of strongly ionized hydrogen, equation of state, 25:1208
kinetic theory of thermal equilibrium, density and fugacity expansions for, 25:25117 (ITF-70-94-P)
kinetic theory of toroidal-confined, perturbation, 25:25120 (ORNL-TM-3351)
kinetic theory of turbulent pulsations in, correlation functions for, 25:9475
kinetic theory of turbulent, nonlinear, (T), 25:7391
kinetic theory of turbulent, propagators for, 25:52828
kinetic theory of turbulent, quasi-linear approximation for, 25:59027 (IPP-6/94)
kinetic theory of two-component, equilibrium correlation functions for, 22:17673
kinetic theory of two-component, magnetoconductivity, 24:32841
kinetic theory of two-temperature, 21:42065
kinetic theory of two-temperature fully ionized, unified transport, 23:1407 (CNAEM-59)
kinetic theory of two-temperature, Chapman—Enskog solution of Lenard—Balescu equation for, (T), 24:10507 (SC-CR-69-3203)
kinetic theory of unstable, in strong electric and magnetic fields, 21:42117
kinetic theory of Vlasov, energy conserving numerical approximations for, 24:47257
kinetic theory of warm electron, eigenvalue problems for Lagrangian systems, 25:59052
kinetic theory of warm, biorthogonal expansions for, 21:40010
kinetic theory of weakly ionized time-varying magneto-, 23:44437
kinetic theory of weakly ionized, in electric fields, 23:5401
kinetic theory of weakly ionized, in external constant electric fields, 25:14328
kinetic theory of weakly ionized, in time-varying crossed fields, 23:32417
kinetic theory of weakly turbulent electron—ion, 22:31820
kinetic theory of weakly turbulent, (T), 22:39087
kinetic theory of weakly turbulent, nonlinear, 23:39481
kinetic theory of weakly turbulent, statistical mechanics of, 24:19898
kinetic theory of, analog device for solving Vlasov dispersion equation, 24:28285
kinetic theory of, analysis of Grad approximation for, 24:26190 (N-70-13092)
kinetic theory of, approximations of Maxwell distributions for, (T), 24:15315
kinetic theory of, asymptotic master equations for, 22:39090
kinetic theory of, Bogolyubov method for, 21:18748
kinetic theory of, Bogolyubov, (T), 23:25332 (AD-678577)
kinetic theory of, Boltzmann and Fokker—Planck equations for, 24:15332
kinetic theory of, Boltzmann equation for electron distribution function, (T), 23:20916
kinetic theory of, Case formalism for singular normal modes of Vlasov—BGK equation, 24:23984
kinetic theory of, Cauchy problem for linearized relativistic Boltzmann equation, 25:11902
kinetic theory of, collective analysis for, 24:23999
kinetic theory of, collision integrals for nonelastic processes in, 24:12817 (N-70-11930)
kinetic theory of, computer experiments on microscopic, 21:44055 (NASA-SP-153, pp 3-23)
kinetic theory of, conditional distribution functions for, 21:33445
kinetic theory of, conference papers on, 24:8424
kinetic theory of, constants of linearized motion of Vlasov, 23:39489
kinetic theory of, constants of linearized Vlasov equation for, 22:17652
kinetic theory of, current correlations in, 24:23980
kinetic theory of, cut contributions to ring equations for, 23:48903
kinetic theory of, derivation from random fluctuation spectrum, 24:21809
kinetic theory of, derivation of quasi-linear equations, 24:23994
kinetic theory of, derivation of Vlasov equation for, 25:11900
kinetic theory of, dielectric constant in Hartree—Fock approximation for, (T), 23:16826
kinetic theory of, difference method for solving Fokker—Planck equations, 24:47255
kinetic theory of, difference scheme for Vlasov solutions, 25:5096 (COO-2059-5)
kinetic theory of, distribution functions for, 22:15537
kinetic theory of, dressed-particle model for, 23:1456
kinetic theory of, electrodynamic, 24:12831
kinetic theory of, electrodynamics and statistical mechanics of linear response functions in, 24:30340
kinetic theory of, exact Green function for Lenard—Bernstein operator in magnetic fields, 25:30537
kinetic theory of, experimental test of quasi-linear, 25:14323
kinetic theory of, experimental verification of microscopic, (E), 23:10630 (SU-IPR-250)
kinetic theory of, finite-difference methods for Fokker—Planck equation, 25:14307
kinetic theory of, finite-Larmor-radius theory for adiabatic invariant, 25:22528
kinetic theory of, Fokker—Planck equation using projection techniques, (T), 24:12820
kinetic theory of, formal developments in, 22:39091
kinetic theory of, formulation of macroscopic Maxwell, 24:3355 (ORNL-4406(Pt.1))
kinetic theory of, formulation of macroscopic Maxwellian, 24:3356 (ORNL-4406(Pt.2))

kinetic theory of, four-dimensional phase space Vlasov solution for, 21:44062 (NASA-SP-153, pp 155-61)
kinetic theory of, Fourier transform solutions of magnetohydrodynamic equations, 25:22520
kinetic theory of, general survey on, 24:1424
kinetic theory of, generalization of Bogolyubov—Lenard—Balescu, 25:40650
kinetic theory of, generalization of Vlasov—Landau—Bogolyubov, (T), 25:40649
kinetic theory of, Grad method extension for relativistic Boltzmann equation, 25:11901
kinetic theory of, guiding-center approximation in lowest order, (T), 23:12845
kinetic theory of, Hamiltonian formalism for hydrodynamic models of, 25:38441
kinetic theory of, Hamiltons principle and solution of Vlasov equations for, 22:24276(R) (LA-3831(Add.))
kinetic theory of, higher-order corrections to guiding-center, 24:6544
kinetic theory of, higher-order corrections to guiding-center, 23:39488
kinetic theory of, Holtzmark-continuum model for, 24:23986
kinetic theory of, hydrodynamic description in BBGKY hierarchy, 21:33444
kinetic theory of, in stochastic electromagnetic fields, 23:51821
kinetic theory of, integration methods for Vlasov equation for, 25:59040
kinetic theory of, interactions of Coulomb fields and radiations in, 24:10511
kinetic theory of, Landau damping and the water-bag model, 24:6539
kinetic theory of, lectures on, 22:13502
kinetic theory of, Lorentz model and time-dependent diffusion, 23:39490
kinetic theory of, macroscopic, 22:24342
kinetic theory of, magnetohydrodynamic, 21:44063 (NASA-SP-153, pp 163-89)
kinetic theory of, mathematical models of, 24:23995
kinetic theory of, method of normal modes for Vlasov—BGK equations, 25:43377
kinetic theory of, minimum energy principle in, 24:23993
kinetic theory of, model Fokker—Planck equations for transport theory, 23:12847
kinetic theory of, model for, 24:3375
kinetic theory of, modification of quasi-linear equations for, (T), 25:27739
kinetic theory of, modified truncation procedure for BBGKY hierarchy for, (T), 23:20929
kinetic theory of, modified WKB, 24:37461 (ITF-70-11)
kinetic theory of, negative diffusion coefficients in quasi-linear, 25:27713
kinetic theory of, negative diffusion coefficients in quasi-linear, 25:27712
kinetic theory of, nonlinear dielectric tensors for relativistic Vlasov, 24:23985
kinetic theory of, nonlinear effects in, 24:26207
kinetic theory of, nonlinear Fokker—Planck equation for, 25:45477
kinetic theory of, nonlinear properties of Vlasov equation, 24:23950(R) (COO-2059-1)
kinetic theory of, nonlinear solutions for, 24:45255
kinetic theory of, numerical integration of Vlasov equation, 25:5097 (COO-2059-6)
kinetic theory of, numerical solution of diffusion equation, 25:9468
kinetic theory of, numerical solution of nonlinear Vlasov equation, (T), 24:45264 (ORNL-4545, pp 9-37)
kinetic theory of, one-dimensional n-body problem for, 25:47538
kinetic theory of, perturbation approach to nonlinear Vlasov equation, 24:15314
kinetic theory of, perturbation theory of Vlasov equation for, 24:3368
kinetic theory of, polynomial expansion method for problems involving relativistic Maxwellian distribution, 25:59053
kinetic theory of, properties of inelastic collision operator in, 21:25151
kinetic theory of, properties of reversible collision operators, (T), 23:23133
kinetic theory of, quantum mechanical, 24:30334 (AD-685806)
kinetic theory of, quantum mechanical, 25:47530 (AD-715997)
kinetic theory of, quantum mechanical, (T), 24:3361
kinetic theory of, quantum statistical second virial coefficient for, 25:14322
kinetic theory of, quantum-mechanical, 25:52814 (AD-718436)
kinetic theory of, quasi-linear equations for wave number spectra in, 25:27716
kinetic theory of, reduced probability distribution functions for, (T), 23:36702
kinetic theory of, relation to classical elasticity, 22:13464
kinetic theory of, relativistic ring equations for, 23:44438
kinetic theory of, reversibility of Vlasov equation for, 22:13454
kinetic theory of, review of, 22:1205
kinetic theory of, revised formulation for, 24:17923 (ORNL-4474)
kinetic theory of, revised formulation of, 24:12830
kinetic theory of, semi-Lagrangian formulation of Vlasov equation, 25:11897
kinetic theory of, similarity rules in, 25:14318
kinetic theory of, similarity rules in, 25:33270
kinetic theory of, solution of one-dimensional time dependent MHD equations for, 22:1192 (LA-3770, Paper F1)
kinetic theory of, solution of Vlasov equation by transform methods, 24:49156
kinetic theory of, spherically symmetric solutions of time-independent Boltzmann—Vlasov equations for, 22:31835
kinetic theory of, stationary solutions of electrostatic Vlasov equation, 25:40641
kinetic theory of, statistical, 24:30335 (AD-692744)
kinetic theory of, statistical, 25:56185
kinetic theory of, statistical mechanics for, 23:23140
kinetic theory of, statistical problems in, 22:46157
kinetic theory of, temperature renormalization in nonlinear Vlasov problem, 24:12833
kinetic theory of, test-particle method for, 24:26202
kinetic theory of, test-particle method for, (T), 23:34425 (N-69-22149)
kinetic theory of, transition between Landau and Van Kampen treatments of Vlasov, 21:33432
kinetic theory of, transport properties using semi-classical quantum potential, (T), 23:18649
kinetic theory of, transport theory and correlation functions considering Coulomb interactions, 23:8619
kinetic theory of, variational solutions for Poisson—Boltzmann boundary-value problems for, 23:16818
kinetic theory of, velocity moments of linearized Vlasov equation for, 24:3360
kinetic theory of, Vlasov equation with electric field and BGK-collision terms, (T), 23:18662
kinetic theory of, Vlasov equations for special distribution functions for, 21:44060 (NASA-SP-153, pp 91-136)
kinetic theory of, Vlasov solutions for, 21:44061 (NASA-SP-153, pp 137-44)
kinetic theory of, water-bag model for, 24:49157
kinetic theory of, wave propagation and spectral problems in, (T), 23:20923
kinetic theory of, with time-dependent background state, 22:1209
kinetic thory of, research on, 21:44020 (ORNL-4150, pp 1-35)
kinetics in alternating electric and magnetic fields, Boltzmann equation for, 24:15327
kinetics in alternating electric and magnetic fields, Boltzmann equation for, 24:15326
kinetics in arc-mode thermionic converters, 21:18492
kinetics in crossed electric and magnetic fields, theory of rotating, 25:36139
kinetics in discharge tubes, gas pumping effects in, (T), 22:26425
kinetics in discharge tubes, gas pumping effects in, (E), 22:26424
kinetics in electric and magnetic fields, acceleration, (T), 23:34423(T) (AEC-tr-7049)
kinetics in electromagnetic fields, functional methods in statistical mechanics for, (T), 23:30550
kinetics in electromagnetic fields, steady-state, (T), 23:32419
kinetics in external electromagnetic fields, ring approximation for, (T), 23:44439
kinetics in field of pulsed magnetic barrier, 24:37426 (KHFTI-70-2)
kinetics in hf theta-pinch device, 21:5236 (IPP-1/51)
kinetics in homogeneous Lorentz, nonlinear effects under hf electric field, 21:3862
kinetics in intermediate-pressure discharge column in magnetic fields, (T), 21:11631 (SU-IPR-105)
kinetics in longitudinal electric fields, wave mechanical formalism for, 25:11891
kinetics in magnetic fields, heat and diffusion fluxes in, (T), 23:44421
kinetics in MHD generators, (E/T), 21:643(R) (AD-635459)
kinetics in microwave cavities, eigenvalues for variable radial density, 24:30343
kinetics in nonuniform electromagnetic fields, nonadiabatic particle behavior in, 24:3374
kinetics in oscillating fields, tensor of time-averaged stresses for, (T), 23:12859
kinetics in Q devices, stationary convective cells in, (E), 24:40064
kinetics in spark channels, luminescence from, 21:42103
kinetics in strong hf fields, hydrodynamics, (T), 24:15308 (NP-18119)
kinetics in strong hf fields, hydrodynamics, (T), 25:1197(T) (AEC-tr-7163)
kinetics in strong magnetic and electric fields, Born approximation calculation of, (T), 25:30530
kinetics in toroidal discharges without axial magnetic fields, 21:29246
kinetics in toroidal magnetic field, model for low-pressure, (T), 24:49153
kinetics in uniform magnetic field, transverse dielectric tensor for free-electron, 23:48904
kinetics of anisotropic electron, Vlasov solution for, 21:42069
kinetics of anisotropic, discontinuities in, 22:1213
kinetics of anisotropic, nonlinear mixed frequency generation in, (T), 22:24335
kinetics of anisotropic, relaxation with dynamic shielding, 23:5409
kinetics of anisotropic, relaxation, (T), 21:44074
kinetics of anisotropic, shielding in, (T), 21:42059
kinetics of arbitrary current source in homogeneous anisotropic, solution to problem of, (T), 21:25150
kinetics of arc, inhomogeneity degree in, (E), 21:786
kinetics of argon—helium, Monte Carlo solution of Maxwellization process in, 25:3098
kinetics of body moving in rarefied, analysis of drag, (T), 21:24964
kinetics of Bogolyubov, evolution of probability distributions and correlation functions for, 22:34666
kinetics of Bogolyubov, probability distributions and correlation functions for, 21:39999 (ARL-67-0103)
kinetics of Boltzmann, development of partition function in, (T), 23:23136
kinetics of bounded one-dimensional, minimum energy property, (T), 23:14796
kinetics of bounded quiescent, theory of velocity distributions in, 24:26212
kinetics of charge-neutral self-consistent, (T), 24:49147 (NYO-1480-139)
kinetics of classical Coulomb, finite-wavelength hf dielectric constant for, (T), 24:51680
kinetics of classical electron, irreversible processes in, (T), 22:24324
kinetics of classical electron, radial distribution function for, 22:17661
kinetics of classical two-component, short-distance divergence, (T), 23:14793
kinetics of classical, quantum corrections to pair distribution function in, 22:41587
kinetics of clouds of, spherical and cylindrical nonlinear waves in, (T), 24:25839
kinetics of collisional, quasilinear approximation equations for, 22:3056
kinetics of collisionless two-component, equation of state for adiabatic electron, 25:19675
kinetics of collisionless, covariant dispersion theory for uniform fields, (T), 23:44424
kinetics of collisionless, in strong magnetic fields, hydrodynamic equations for, 23:30548
kinetics of collisionless, in transverse magnetic fields, initial-value problems for, 23:1420 (LA-3990, pp C1.1-5)
kinetics of collisionless, one-dimensional free expansion, 22:3115
kinetics of collisionless, perturbation method for solution of Vlasov equation for, 24:24203
kinetics of column, uniform description of core and sheath, 21:20967
kinetics of comet envelopes of, fountain model for, 23:3171
kinetics of completely ionized hydrogen, Navier—Stokes solutions for plane piston problem, 23:42322
kinetics of Coulomb quasi-equilibrium, 21:44077
kinetics of cylindrical pinch, undergoing neutral atom penetration, (T), 25:7389
kinetics of dark sheath in rf-discharge, (E/T), 22:3061
kinetics of Debye—Hueckel, shear viscosity, 22:34701
kinetics of dense discharge, temperature, current, and energy, (T), 21:33413
kinetics of dense one-component, Born—Green—Yvon equation for, 21:18689
kinetics of dense stellar, statistical mechanics for, 22:34145 (UCRL-71080)
kinetics of dielectronic recombination in hot dilute solar, overlapping metastable levels in, 21:18376
kinetics of dielectronic recombination in, effect of radiation fields on, (T), 22:17311
kinetics of disintegrating helium, at 20°K, (E/T), 21:25146
kinetics of dissipative, Lie algebra and Hamiltonian mechanics for, 24:15634
kinetics of electron in magnetic fields, Goldstone theorem for, 22:13455
kinetics of electron, in magnetic field, 21:31427(T) (NASA-TT-F-479)
kinetics of electron—ion gas in random-phase approximation, single-particle effects on, 21:18452
kinetics of envelope of, noncylindrical Z-pinch, 21:46336(T) (CLM-Trans-8)
kinetics of equilibrium, correlation functions for, (T), 25:47543
kinetics of equilibrium, statistical theory for, 21:18673
kinetics of excited atoms in optically dense, 22:52805
kinetics of flowing collisionless, effects of finite Larmor radius on mixing in, (T), 24:28274 (N-70-11902)
kinetics of free electrons in partially ionized, statistical mechanics of, 24:8462
kinetics of freely expanding, in magnetic fields, 22:3052
kinetics of fully ionized, fifth and sixth approximations to electron transport coefficients for, (T), 22:17682
kinetics of fully ionized, in electric and magnetic fields, (T), 22:7264
kinetics of fully ionized, Monte-Carlo calculation of equation of state for, 22:34679
kinetics of fully ionized, quantum nature of, (T), 23:46477
kinetics of galactic, (T), 21:31166
kinetics of gyroviscous, (T), 21:9565 (UCRL-14466(Rev.1))
kinetics of helium discharge, elementary processes in, (E/T), 21:25142
kinetics of hf discharge in argon, (E), 21:23169
kinetics of high beta, adiabatic treatment of Vlasov equation for, (T), 21:44071(R) (NYO-3782-1)
kinetics of high-temperature, second virial coefficient for free energy, 22:1240
kinetics of homogeneous electron, (T), 21:13576
kinetics of hot electron cloud in cold, quasi-gasodynamic theory for, 24:19900
kinetics of hot, lectures on, 25:14305
kinetics of hydrogen and helium, generalized one-dimensional MHD computer program for partially ionized, 25:33263 (LRP-46/71)
kinetics of hydrogen discharge, Monte Carlo model for, (T), 23:25336 (BMwF-FBK-69-3, pp 6.1-10)
kinetics of hydrogen, equation of state, 25:14319
kinetics of hydrogen, equation of state for, 22:52786
kinetics of hydrogen, finite partition functions for, (T), 23:48907
kinetics of hydrogeneous, radial distribution functions for, (T), 23:14806
kinetics of hydrogenous, Monte Carlo study near ionization temperature of, 22:39112
kinetics of imperfect, thermodynamically complete equation of state for, (T), 25:30521
kinetics of imploding magnetically driven axisymmetric sheets of, 22:44171
kinetics of inhomogeneous, computer simulation of, 22:34656 (TID-24491, pp 127-30)
kinetics of isotropic, Green's function theory for field correlations in, 24:32836
kinetics of laser-produced carbon, (E), 25:52809
kinetics of laser-produced, microscopic processes in, (E), 23:48889 (AD-689439)

kinetics of Lorentz, collision term of Boltzmann equation for, 21:33437
kinetics of Lorentz, in elliptic magnetic fields, 23:44432
kinetics of Lorentz, one-dimensional model for, 21:33423
kinetics of Lorentz, tensorial surface harmonics development of Boltzmann equation for, 23:7001
kinetics of Lorentzian homogeneous and inhomogeneous, nonlinear effects in, (T), 23:25355
kinetics of low-density quantum, free energy, (T), 23:20921
kinetics of low-density quantum, free energy, (T), 24:42682
kinetics of low-pressure discharge column of, in axial magnetic fields, (T), 21:9563 (TID-23490)
kinetics of low-pressure nitrogen, electron temperature effects on composition of, 25:25102
kinetics of low-pressure positive column, in magnetic field, (T), 21:9606
kinetics of low-voltage cesium arc, thermodiffusion theory of, 21:18493
kinetics of magnetized weakly ionized, density fluctuations in, (T), 25:47544
kinetics of magnetized, energy balance, (T), 23:25351
kinetics of magnetized, nonthermal ion space-charge effects in, 22:1210
kinetics of magnetized, particle, momentum, and heat balance, 22:9304 (N-67-22496)
kinetics of magnetized, quasi-linear approximation for, 23:5423
kinetics of molecular, hydrodynamic equations for, (T), 24:6543
kinetics of monatomic, transport properties for, (T), 22:1206
kinetics of multicomponent, double Laplace transformation in mixed-boundary initial-value problems, 24:26189 (AD-699957)
kinetics of nitrogen afterglow, energy level, 22:31827
kinetics of nondegenerate, static transport phenomena, (T), 21:37456 (UCRL-50166)
kinetics of nonequilibrium partially ionized, transport properties of, 22:1248
kinetics of nonequilibrium two-temperature, generalized Saha equation for, 22:19981
kinetics of nonisothermal electron—ion, statistical structure of, 23:5421
kinetics of nonisothermal, correlation functions for, 22:9309(T) (NP-tr-1606)
kinetics of nonradiating, model for, 22:26419
kinetics of one-component, in uniform electric field, nonequilibrium statistical-mechanical study of, (T), 23:16813
kinetics of one-component, linearized superposition theory for, 21:15162
kinetics of one-dimensional warm, correlation function for, 24:42726(R) (UCB-34-P-128-12)
kinetics of one-dimensional, collision effects on, 22:11466
kinetics of one-dimensional, computer calculation of, (T), 23:27628 (N-69-10471)
kinetics of one-dimensional, statistical mechanics for model of, (T), 21:33362 (MATT-Q-24, pp 197-334)
kinetics of partially ionized hydrogen, statistical mechanics of, 21:42118
kinetics of partially ionized hydrogen, variations of Saha law for, 22:44144
kinetics of partially ionized, statistical mechanisms of, 22:46178
kinetics of Penning discharge, ion, 21:7283
kinetics of Penning-discharge, ion, 21:7262
kinetics of periodic slab, resonant terms in model of, (T), 23:42298
kinetics of positive column, in inclined magnetic fields, (T), 21:7260
kinetics of quantum Coulomb, first order phase transitions in, 22:31815
kinetics of quantum, calculation of exchange term of pair distribution function, 22:44142
kinetics of quantum, equation of state, (T), 23:25354
kinetics of quantum, nonlinear interactions in, (T), 22:31807 (ORNL-TM-2101)
kinetics of quantum, nonlinear interactions in, (T), 23:23138
kinetics of quantum, radial distribution function for, 23:1443
kinetics of quantum-Coulomb, first-order phase transitions in, (T), 23:16817
kinetics of radiating, approach to equilibrium, (T), 21:27144 (R-65-SD-65)
kinetics of radiation interaction with, (T), 21:29258
kinetics of reactor-produced, microwave investigation of, (E), 21:16907
kinetics of relativistic electron, quantum Vlasov equation and dispersion relation for, 21:18666 (MPI-PAE/PL-2/67)
kinetics of relativistic electron, Vlasov equation and dispersion relations for, 21:35169
kinetics of relativistic in hf electromagnetic fields, stress tensor, (T), 24:19892
kinetics of relativistic quantum, phase space description of, (T), 23:44572
kinetics of relativistic, anisotropic compression, 22:3078
kinetics of relativistic, branch-cut contribution to longitudinal electric field, 21:44078
kinetics of relativistic, causality requirements for, (T), 23:44426
kinetics of relativistic, integral equation for total charge density, (T), 25:30538
kinetics of relativistic, locally Maxwellian distributions in, 22:34629 (AD-662906)
kinetics of relativistic, phase-space symmetry, 22:41590
kinetics of relativistic, symmetry theory for, 23:44425
kinetics of rotating cylindrical, generalized Helmholtz equation for, 21:29241
kinetics of rotating, (T), 21:777
kinetics of sheet, in Earth's magnetotail, (T), 24:6467
kinetics of slightly relativistic, (T), 22:29502
kinetics of slightly relativistic, (T), 22:29501
kinetics of stable homogeneous, binary correlations for, (T), 21:18698
kinetics of strongly ionized, hydrodynamic approximations for, (T), 23:51666
kinetics of test particle in, diffusion and friction coefficients for, (T), 23:44430
kinetics of thermal electrons in attractive Coulomb potential, Boltzmann solution for, 24:19891
kinetics of turbulent magneto-, diffusion, particle orbits, and field fluctuations in, 22:44169
kinetics of turbulent, dynamic friction and diffusion in, (T), 23:25341 (BMwF-FBK-69-3, pp 17.1-16)
kinetics of turbulent, equation for energy spectrum in, 22:48107
kinetics of turbulent, quasi-linear theory of, 22:48109
kinetics of turbulent, renormalized quasilinear theory for, (T), 23:34437
kinetics of two-component nonisothermal, characteristic magnitudes in, (T), 23:25359
kinetics of two-component, collective variables in, 23:8627
kinetics of two-component, statistical, 22:39104
kinetics of two-component, steady-state Vlasov equations for monotonic electric potential, 25:19680
kinetics of two-dimensional classical, partition function in, (T), 23:3471
kinetics of two-dimensional Coulomb, exact pair correlation function for, 21:16918
kinetics of two-temperature, dielectric constant effects on, 21:15127 (JPL-TR-32-888)
kinetics of two-temperature, modified Chapman—Enskog solution of Lenard—Balescu equation, (T), 23:36682 (SC-CR-69-3174)
kinetics of two-temperature, momentum and energy transfer frequencies in, (T), 23:36681 (SC-CR-69-3173)
kinetics of two-temperature, Saha equation and lowering of ionization energy for, (T), 23:42302
kinetics of unstable, thermodynamic theory for, 23:12853
kinetics of uv-pre-ionized, density and temperature variations, (T), 24:51657 (IPP-1/106)
kinetics of Vlasov, energy requirement for nonlinear density fluctuations in, (T), 22:19985
kinetics of Vlasov, Hamilton's principle for numerical analysis of, 24:49162
kinetics of weakly ionized, effect of collisions on incoherent scattering in, (T), 23:25236
kinetics of weakly ionized, generalized Ohm law for nonstationary, (T), 23:18664
kinetics of weakly ionized, steady-state charged-particle distribution in, (T), 25:59048
kinetics of weakly ionized, theory for, 21:23193
kinetics of weakly turbulent, correlation functions for, (T), 24:37472
kinetics of weakly turbulent, in case of Coulomb collisions, (T), 23:51658
kinetics of weakly turbulent, unified quasilinear theory of, 22:41594
kinetics of, anomalous skin effect in, 21:27191
kinetics of, asymptotic solution of Fokker—Planck equation for, (T), 23:20926
kinetics of, asymptotic solutions for anomalous resistance, 25:14309
kinetics of, atomic processes in, (T), 25:27705
kinetics of, BBGKY hierarchy treatment of high-frequency branch of dispersion relation in, 22:46149
kinetics of, binary Slater sums and distribution functions for, (T), 23:20922
kinetics of, Boltzmann equation with cutoff potentials for, 22:1207
kinetics of, Boltzmann expansion of BBGKY hierarchy for, 21:2255
kinetics of, boundary effects on singularities of two-fluid equations for, 21:40023
kinetics of, breakdown of adiabatic invariance in, (T), 24:15329
kinetics of, Brownian motion of electrons in, (T), 23:12830
kinetics of, collective fraction in microfields, (T), 23:5420
kinetics of, collisional transfer contributions in quantum theory of transport phenomena, 22:29522
kinetics of, compatibility requirements in BBGKY expansion for, 22:34665
kinetics of, computational problems in, 22:39081 (UCRL-71205)
kinetics of, computer calculations for MHD, 24:49163
kinetics of, computer simulation of, 22:34702
kinetics of, conference on, 21:20911
kinetics of, conservative difference schemes for Fokker—Planck equation, 23:1423 (LA-3990, pp C4.1-8)
kinetics of, convergence of correlation function for two-component, 22:41550
kinetics of, correlation functions for nonequilibrium states, (T), 24:26193
kinetics of, correlation of electric field intensity and current density in, (T), 24:49149 (SINP-TH-68-8)
kinetics of, Debye—Hueckel lower bounds in, 22:39110
kinetics of, density matrix formalism and relaxation phenomena in, 21:46374
kinetics of, dispersion relation for Vlasov equation, (T), 23:20920
kinetics of, double-adiabatic hydromagnetic equations for electrons with pressure gradients, 23:12824
kinetics of, during electrostatic acceleration, (T), 21:46334 (SC-RR-67-703)
kinetics of, effect of Coulomb collisions on contrastreaming, 21:3843
kinetics of, effects of variations of positive ion density on, 21:31436
kinetics of, electric field effects on microturbulence in, (T), 23:44429
kinetics of, electromagnetic field representation in relativistic, by surface integral, 24:15320
kinetics of, electromagnetic, (T), 23:12863
kinetics of, electrostatic shielding in, (T), 23:39480
kinetics of, elliptic boundary-value solutions for, 25:9456 (JUL-663-PP)
kinetics of, equation of state for excited gas of resonance atoms, 22:22177
kinetics of, equation of state for two-dimensional, 21:42113
kinetics of, equations of state for, 21:44072
kinetics of, evolution equations for coherence function in, (T), 21:37468
kinetics of, exact solutions of Boltzmann—Vlasov equations for, 22:38839 (N-68-11353)
kinetics of, exact stationary wave solutions of nonlinear Vlasov equation for, 22:31847
kinetics of, experimental and theoretical concepts for, 22:1244
kinetics of, finite-difference method for solution of free-boundary problems in, 23:36805 (NYO-1480-116)
kinetics of, fluctuating microfields in system of charged particles in, (T), 24:6538
kinetics of, fluctuation—dissipation theorems for, 24:18052
kinetics of, Fokker—Planck equation for, 22:24309
kinetics of, Fourier—Hermite solutions of Vlasov equations in linearized limit, 21:27187
kinetics of, free energy at 10^4 to 10^{10}°K, 23:3475
kinetics of, functional random-walk model of, 24:26345
kinetics of, fundamental solution for linearized guiding-center equations for, (T), 22:26390
kinetics of, generalized BGK collision model for transport processes, 21:46361
kinetics of, generalized Fokker—Planck equation for, (T), 23:12857
kinetics of, geometrical and tensorial Lorentz transformations for, 22:29603
kinetics of, gyro-viscous stress theory for, 21:18729
kinetics of, Hamilton's principle and numerical solution of Vlasov equations, 22:50147 (LA-3803)
kinetics of, higher order corrections to Chew—Goldberger—Low theory for, 21:20988 (MATT-Q-23, pp 181-320)
kinetics of, hovering freely in hf deuterium discharge, (T), 24:30357(T) (JPRS-50255)
kinetics of, hypergeometrization of relativistic phase-space formalism for, 22:48128
kinetics of, inelastic processes in, 21:27164
kinetics of, invariant of higher-order Chew—Goldberger—Low theory for, 21:18697
kinetics of, Korteweg—de Vries equation for, 22:52803
kinetics of, Korteweg—de Vries equation for, 22:52802
kinetics of, Kubo's modified theory of Brownian motion for, 24:8473
kinetics of, lectures on, 21:18615(T) (AD-645818)
kinetics of, Lorentz invariance of distribution in phase space, 23:46482
kinetics of, macroscopic equations for stationary, 24:47230 (IPP-6/84)
kinetics of, magnetohydrodynamic description of, 22:9324
kinetics of, magnetohydrodynamic equations for, (T), 21:40012
kinetics of, many-body simulation using cloud-in-cloud and cloud-in-cell theory, (T), 23:25348
kinetics of, mathematical aspects of relativistic statistical mechanics for, 22:26407
kinetics of, mixed-boundary initial-value problem for Vlasov equation, 25:1196 (AD-707676)
kinetics of, non-perturbative approach to relativistic ring equations for, 23:48906
kinetics of, nonlinear Vlasov equation for, 21:13566 (N-66-37206)
kinetics of, nonlinear Vlasov equation for one-dimensional, 21:33424
kinetics of, numerical simulation of, (T), 23:34429 (ORNL-4401, pp 1-24)
kinetics of, numerical solution to Poisson equation for simulation of, 21:29221 (MATT-538)
kinetics of, one-dimensional Vlasov—Poisson equations for, 22:39056 (AD-664585)
kinetics of, particle flux from stochastic scattering processes in, (T), 25:30518 (N-71-11853)
kinetics of, particle flux from stochastic scattering, (T), 25:17164 (AD-713124)
kinetics of, path integral for class of Fokker—Planck processes, (T), 23:12856
kinetics of, pattern recognition and statistical mechanics for, 24:1492
kinetics of, potential calculations for, 24:49158
kinetics of, power series expansion of Boltzmann equation for, (T), 23:12821
kinetics of, quadratic response functions and triple correlations in, (T), 24:3364
kinetics of, quasistationary theory for nonstationary processes in, 21:20951
kinetics of, radial distribution functions at zero particle separation for, 22:39111
kinetics of, radiative transfer processes in, (T), 22:24331
kinetics of, relation of elementary collective coordinates and Vlasov equation, (T), 25:1201
kinetics of, relativistic Debye—Hueckel law for perfect gas in external field, 21:44107
kinetics of, relativistic kinetic equations including radiation effects, 22:29513
kinetics of, relativistic statistical mechanics for, 21:44298
kinetics of, relaxation of ion pressure anisotropy and energy transfer between ions and electrons in dense, (E), 23:32380
kinetics of, research on, 22:46140 (N-68-23989)
kinetics of, research on, 21:27106 (CONF-660452-1)
kinetics of, review of, (E/T), 23:32365
kinetics of, second virial coefficient for, 23:3490
kinetics of, shock-like solutions of electrostatic Vlasov equation, 22:39075 (N-68-21832)
kinetics of, shock-like solutions of electrostatic Vlasov equations for, (T), 23:25357

kinetics of, singular perturbation methods for calculating, 22:52770 (AD-672516)
kinetics of, singular solutions of integral equations for, (T), 21:5262 (AD-629685)
kinetics of, small-amplitude solutions to spatially uniform continuity equations for, 22:36916 (N-68-22887)
kinetics of, small-amplitude solutions to Volterra,s problem for, (T), 23:48902
kinetics of, solution of linearized Vlasov equation for space—time-dependent distribution function, 22:26391
kinetics of, solution of Milne problem for BGK equation, (T), 23:36694
kinetics of, solution of Poisson equation for, 22:34707
kinetics of, solution of Vlasov equation with Lenard—Bernstein collision term for, 23:10637
kinetics of, spherical-harmonic and power-series expansion of Boltzmann equation for, 22:31844
kinetics of, statistical mechanics for, 21:9595
kinetics of, stochastic approach to theory of fluctuations in, 22:19995
kinetics of, stochastic equations for, 22:46156
kinetics of, stochastic processes in, (E), 24:3352 (CONF-690803-31)
kinetics of, summaries of conference papers on transport processes in, 22:7310
kinetics of, theory of microfields in, 22:44129
kinetics of, three-dimensional homogeneous, (T), 21:20974
kinetics of, transformation of Boltzmann equation for electron component of, (T), 23:18653
kinetics of, transitory regime in, (T), 24:23989
kinetics of, transverse electromagnetic fields in, (T>, 25:30535
kinetics of, validity conditions for local thermodynamic equilibrium, 23:48914
kinetics of, velocity autocorrelation functions for self-diffusion in, (T), 24:47246
kinetics of, virial and equations of state for, 22:44151
kinetics of, Vlasov equation for special distribution functions for, 21:40014
kinetics of, Vlasov solutions for, 21:13594
kinetics of, Vlasov solutions for, 21:13595
kinetics of, Vlasov solutions for electric fields and BGK collision terms, (T), 23:42300
kinetics of, volume forces in, 21:42056
kinetics of, Wigner distribution function for, 21:44111
kinetics, expansion theorem for linearized Fokker—Planck equation for, 21:33450
kinetics, microscopic approach to theory of, 21:18682
kinetics, nonlinear effects in, 21:23188
kinetics, relaxation to equilibrium of dilute electron, (T), 21:18683
kinetics, solutions of certain integral equations in, 21:16928
Landau papers on, collection of, 22:15504
laser action in xenon by high-current pinched discharges, 24:12813
laser beam incoherent scattering on, research on, 21:29228 (TID-23827, pp 223-9)
laser beam interactions with argon, threshold for spark maintenance in, (E), 25:14331
laser beam interactions with cold overdense, relativistic nonlinear propagation of, (T), 24:15321
laser beam interactions with cylindrical, propagation of, (T), 25:33256
laser beam interactions with helium, local thermodynamic equilibrium conditions in, (T), 24:1433
laser beam interactions with hydrogen, electron scattering cross section for, 21:46172
laser beam interactions with inhomogeneous, acceleration properties of, 21:29245
laser beam interactions with solid deuterium, hydrodynamic properties of, (E/T), 24:15272
laser beam interactions with xenon, transparancy effect in, (E), 23:25323
laser beam interactions with, absorption coefficients for, 21:7214 (TID-23459, pp 37-58)
laser beam interactions with, electron heating and bremsstrahlung radiations from, 25:14279
laser beam interactions with, enhanced scattering from optical mixing in double, (T), 25:45476
laser beam interactions with, inverse bremsstrahlung process in, (T), 25:40645
laser beam interactions with, ionization properties of, (T), 21:46377
laser beam interactions with, self-focusing in, (E), 24:3346
laser beam interactions with, self-focusing in, (T), 24:51633
laser beam interactions with, self-focusing of, 21:3832
laser beam interactions with, shock wave emission from, 21:42029 (ARL-67-0062)
laser beam interactions with, stimulated and nonlinear effects from, (T), 25:11884 (CEA-N-1399)
laser beam interactions with, thermal and electromagnetic forces from, (T), 24:21796
laser beam reactions with argon and nitrogen, spectra from, 22:9346
laser beam reactions with dense, absorption in, (T), 22:24280 (MATT-Q-25, pp 257-303)
laser beam reactions with, in magnetic field, (T), 22:1214
laser beam scattering by dense, cross sections for, (T), 25:3101
laser beam scattering by, effect of impurities on spectra of, 25:17188
laser beam scattering by, spectra profile of, (E), 24:12807
laser beam scattering from magnetized arc, spectra of, (E), 24:15375
laser beam scattering on finite volume of, light mixing in, (T), 24:51661(T) (NRC-TT-1415)
laser beam scattering on hydrogen, spectra profiles from, (E), 24:40076
laser beam scattering on magnetized arc, anomalous, (E), 25:36123
laser beam scattering on theta-pinch, spectra from, 21:31428
laser beam scattering on, effect of oblique incidence on absorption, (T), 25:9476
laser beam scattering on, enhanced signals from, (E), 25:52878
laser scattering on dense, electron—positron pair production in, 25:17153
laser-beam absorption by inhomogeneous laser-produced, (E/T), 25:43400
laser-beam interactions with exploded lithium wire, energy absorption in, (E), 24:32830
laser-beam interactions with solid deuterium, neutron emission from, (E), 24:12849
laser-beam interactions with, optical absorption and expansion in, (T), 23:23162
laser-beam scattering from theta-pinch, spectral study of, 21:40028
laser-radiation reactions with, by induced Compton effect, 23:14787
light absorption in, effect of intensity on, (E), 23:5383
light backscattering from laser-produced, spectral analysis of laser-beam, (E), 25:40625
light emission coefficient from integrated intensity distribution, (T), 21:18643
light scattering by atoms, electrons, ions, and molecules in, (T), 21:18742
light scattering by marginally stable, (T), 25:36144
light scattering by nonMaxwellian, electron energy effects on, (E/T), 23:48881
light scattering by weakly ionized, theory of Thomson, 25:56165 (N-71-27890)
light scattering by, in magnetic field, (T), 22:48097
light scattering on collisionless, effect of strong magnetic field on Thomson, (T), 25:36140
light scattering on weakly ionized, continuum theory for Thomson, 25:17172
loading of rf induction-coupled, resonance, (T), 23:12865
loss mechanisms in linear Hall and Faraday MHD generators, (E), 21:7054 (AD-634098)
losses in negative glows, survey of recombination and diffusion, 23:3473
luminescence of helium—neon, kinetics of post, 21:42099
luminescence of, use of image converters for cinematography of transient weak, 21:20922 (CEA-R-3097)
luminosity of barium Q, electron temperature from, (T), 22:26370
luminosity of decaying, determination of, 21:3861
magnetic dipoles in stationary, free boundary of, (T), 25:19699
magnetic field annihilation in current pinches, 21:37053
magnetic field confinement by streaming, (T), 22:22034
magnetic field dissipation in, charged particle acceleration by, (T), 21:781
magnetic field distribution in, between concentric boundaries, (T), 25:56163 (LGI-70/16/E)
magnetic field effects in resonantly sustained, axial, (E), 22:17702
magnetic field effects on equilibrium configurations of, two-dimensional dipole, (T), 24:30279
magnetic field effects on low-pressure cold-cathode discharge in argon, axial, 23:46489
magnetic field effects on, uniform and nonuniform, 24:17879
magnetic field excitation in turbulent, spontaneous, 22:46163
magnetic field in collisionless magnetized, disturbance behind moving body of, (T), 24:39969
magnetic field intensification in magnetoactive, (T), 21:18695
magnetic field measurements in, using scattered light, 22:1154 (IPP-1/69)
magnetic field production by electrons of, undergoing inverse Faraday effect, (E), 25:3082
magnetic field relaxation rates in magnetoactive, effect of relativistic charged-particle interactions on, 21:33453
magnetic fields in rotating clouds of, (T), 25:35819
magnetic fields, collective effects during annihilation of opposite, (E), 25:30469
magnetic guarding of, acceleration from dipole, (T), 23:1370
magnetic properties of relativistic, 21:40011
magnetic Reynolds number of flowing, determination from interaction with magnetic field, 21:37421
magnetic surfaces in rotating high-β toroidal, perturbation of, 24:42698
magnetic-field generation in nonuniformly rotating, by viscous forces, (T), 23:5122
magnetization in, creation by inverse Faraday effect, 21:25137
magnetofluiddynamics of, conference on, 21:27110
magnetohydrodynamic description of, 21:5120
magnetohydrodynamic equilibrium solutions with azimuthal symmetry, 22:13309 (67-C-102)
magnetohydrodynamics of interstellar, of gas and dust, (T), 23:32119
mass pickup in low-energy theta-pinch devices, measurement of, 22:1188 (LA-3770, Paper D6)
measurement and theoretical treatment of interplanetary space, 21:13344
measurements in, equipment for pressures of 1 to 2 atm, 21:35701(R) (BNL-50023)
metal surfaces in hydrogen, arc initiation at, 21:9604
microwave emission during beam instability development in, (E), 22:29530
model for equilibrium, free—bound, 21:20965
model for Sco X-1, (T), 21:11355
model for, along magnetic field lines outside the plasmasphere, (T), 24:12691 (N-70-11777)
model of extended shell of, for thermal cosmic x-ray sources, (T), 25:40245
models for two-dimensional, properties of Cloud-in-Cell and Nearest-Grid-Point, 25:56191
molecular beam production in, from charge exchange reactions, 21:29007
motion across inhomogeneous magnetic fields, effects of particle velocity distribution on, (T), 25:27720
motion and cutoff in transverse magnetic fields, 22:24330
motion and equilibrium in unsymmetric magnetic fields, (T), 25:3097
motion and polarization in multipole magnetic fields, (E), 23:51632
motion at frontal point of magnetosphere, (T), 24:12722
motion in axially symmetric torus, guiding center equations for, 24:42686
motion in crossed fields, Ohm's law for, 22:41605
motion in cusped magnetic fields, flow velocity in, (T), 25:3091
motion in cylindrical cavities with external magnetic fields, 22:3055
motion in electric and magnetic fields, higher-order adiabatic equations for, 24:26199
motion in electric and magnetic fields, research on, 21:3865
motion in electric and magnetic fields, time characteristic of, (T), 24:23990
motion in electric arcs with transverse magnetic fields, (E), 22:31831
motion in electromagnetic fields, (T), 22:20012
motion in electromagnetic fields, shock-wave production in, (T), 25:25127
motion in field-free region, expansion of, 21:3880
motion in gravitational fields, convection, (T), 24:10535 (MATT-749)
motion in helical fields having equipotentials coinciding with magnetic surfaces, 23:8570(T) (AEC-tr-7008)
motion in helical magnetic fields, effects of electric fields on, (T), 23:12818 (NP-17747)
motion in hf electromagnetic fields, nonlinear theory of, 25:59037
motion in inhomogeneous transverse magnetic fields, (T), 24:1437
motion in linear quadrupole and toroidal octupole magnetic fields, (E/T), 23:23102
motion in magnetic field, relation of diffusive spreading of inhomogeneities to, (T), 21:25001
motion in magnetic fields, research on, 22:1174 (AD-648083)
motion in magnetosphere under perturbed geomagnetic conditions, (T), 25:40462
motion in minimum-B stellarator fields, (T), 24:28273 (IPPJ-88)
motion in nonuniform magnetic channel, expansion and thermalization of, 22:41616
motion in parallel electrode shock tubes, helium and hydrogen, 21:42106
motion in Q devices, effects on electrostatic disturbances in, (E), 24:15306
motion in quadrupole magnetic fields, guiding-center, 23:8579
motion in random electromagnetic field, averaged equation of, 21:13596
motion in semi-infinite circular waveguides, (T), 22:9336
motion in stellarator fields, (T), 24:51660 (NP-18475)
motion in stellarator magnetic fields, effect of electric fields on, (T), 25:22474
motion in theta pinches, simulation of radial, 25:52815 (IPPJ-DT-23)
motion in time-dependent electric fields, drift velocity, (T), 24:26197
motion in upper ionosphere, (T), 24:6430
motion near axis of symmetry in magnetosphere, (T), 24:30280
motion near electrodes in magnetic fields, effects of electrode space—charge sheath in, (T), 24:37465
motion of collisionless, effects of finite Larmor radius on, (T), 25:17174
motion of collisionless, in magnetic fields, (T), 23:23076
motion of gravitating rarefied, equation solutions for axially symmetric, 22:1239
motion of injected, in time-changing toroidal octupole magnetic fields, (E/T), 25:9402
motion of low-pressure arc discharge between concentric electrodes in transverse magnetic field, Lorentz, stationary, and retrograde, (E/T), 24:17919
motion of low-pressure, stationary convective, (T), 22:24136
motion of magnetized, rotational, (T), 22:22145 (FOA-4-4341-23)
motion of magnetospheric, plasmapause formation by plasma escape and, 21:5152
motion of nonuniform collisionless magnetized, in magnetic fields, (T), 24:49152
motion of rarefied, automodel for, (T), 22:29483
motion of strongly turbulent, in magnetic field, (T), 22:24297
motion of toroidal-confined, total mass, (T), 21:39982
motion of weakly ionized in external electric fields, time-dependent, (T), 23:42314
motion of weakly ionized, in nonuniform magnetic fields, (T), 22:34648 (NP-17503)
motion of, theory for axially symmetric coordinate system, 25:43366
motion through uniform transverse magnetic fields, two-dimensional time-independent solutions for, 22:1148
motion-induced disturbances in ionospheric, (T), 21:23066(R) (AD-641175)
motions in ionospheric F region, (T), 23:20774
motions of magnetospheric, (T), 23:30447
N-body problem in, (T), 25:22327
neutral sheet in magnetotail, two-dimensional model of, (T), 23:27502
neutrino emission from stellar, (T), 24:44849
neutrino photoproduction and energy loss rate in hot, (T), 21:18963
neutrino processes in stellar, energy losses due to, (T), 22:11149
neutrino production in hot stellar, (T), 22:8977
neutrino—photon interactions in hot, (T), 24:44840

neutron emission from cavity pinch discharges in deuterium—tritium, (T), 24:12845 (KFK-992)
neutron emission from deuterium—tritium pinch discharges, (T), 24:8486
neutron emission from deuteron—deuteron interactions in Burnout V machine, 21:44141 (ORNL-4150, pp 71-102)
neutron emission from focused discharges in deuterium, anisotropies in, (E), 23:25386
neutron emission from focused noncylindrical discharges, (E), 23:20950
neutron emission from focused z-pinch deuterium, 22:1281 (LA-3770, Paper C6)
neutron emission from laser irradiated deuterated polyethylene, 25:56219
neutron emission from laser irradiation of solid deuterium, (E), 24:12849
neutron emission from laser-irradiated lithium deuteride, (E), 23:14829
neutron emission from Mk-1A plasma focus, 23:25381 (AD-678506)
neutron emission from noncylindrical z-pinch in deuterium, 22:1280 (LA-3770, Paper C3)
neutron emission mechanisms in plasma-focus z pinch, (T), 23:32503
neutron flux anisotropy in high-energy deuterium, (T), 24:19913 (IPP-1/103)
neutron scattering on ion oscillations in, cross sections for, (T), 24:35438
neutron yields and energy spectra for hot deuterium—tritium, 24:51711 (IPP-1/107)
nonlinear processes in, second Orsay Summer Institute proceedings on, 24:23992
nuclear Q values for dense stellar, (T), 23:41809
opacity of, effect of Z on radiative Rosseland mean, 22:7319
optical constants of fully ionized hydrogen, for laser radiation, (T), 24:35434
optical properties of barium, in Q devices, (E), 24:30329(R) (SIT-2813-49)
optical properties of uranium, 22:18541 (GA-8244)
optical transparency of, criterion for, (T), 24:23977
oscillation continuity equations for, closed-form approximation for, (E/T), 24:28342 (N-70-17635)
oscillation excitation by electron beams in, turbulence from, 21:770
oscillation excitation by helical beam in, ion cyclotron, (T), 24:3439
oscillation excitation in, electron temperature effects on, (T), 23:44484
oscillation in constant electric fields, dispersion relations for, (T), 23:18704
oscillation interactions with radiation field, 21:2276
oscillation levels from reactive marginal instabilities in magnetized, (T), 24:26224
oscillations and anomalous diffusion in afterglow, (E), 24:35489
oscillations and anomalous diffusion in fully ionized cesium, drift-wave, (E), 24:3391
oscillations and collisions in three-component, integral models for, 24:51681
oscillations and Debye shielding in, 21:16936
oscillations and instabilities in finite, (T), 22:31866 (ORNL-4238, pp 1-27)
oscillations and noise in Etude stellarator, Langmuir probe excitation of, (E), 24:10575 (MATT-743)
oscillations and transport in reflex discharges, 22:48103 (SU-IPR-204)
oscillations at anode of alkali-metal-vapor arc, (T), 22:41588
oscillations at harmonics of cyclotron frequency, parametric instabilities from, (E), 24:40145
oscillations at ion—ion hybrid frequencies, (E), 24:3336
oscillations from electron currents in weakly ionized, 22:22168
oscillations from interacting rare gas flows, electrostatic, (T), 25:3089
oscillations in afterglow, electrostatic, (E), 24:37522
oscillations in alternating external electric fields, electrostatic, (T), 23:14840
oscillations in anisotropic, kinetics of, (T), 21:11649
oscillations in anisotropic, Landau damping of, (T), 21:11648
oscillations in anisotropic, nonlinear low-frequency, (T), 23:25402
oscillations in anisotropic, spectra of nonlinear lf, 23:8597 (JINR-P9-4041)
oscillations in anode region of discharge, uhf, 21:42101
oscillations in beam—plasma system, dispersion relations for, (T), 23:44485
oscillations in beam—plasma system, microwave radiations from, 25:27816
oscillations in beam—plasma system, noise levels from Stark broadening analysis, (E), 25:56249
oscillations in beam—plasma system, spectral analysis of, (E/T), 25:9535
oscillations in beam—plasma system, suppression and excitation of electron, (E), 25:40721
oscillations in beam—plasma systems, interactions of microwave and lf, (E), 24:3343
oscillations in beam-plasma system, light emission from, (E/T), 24:35395
oscillations in beam-plasma system, structure of two-stream, 24:47288
oscillations in beam-produced, high-frequency, (E), 24:23970
oscillations in beams of, bounded by plane conducting walls, 21:15197
oscillations in bi-Maxwellian, dispersion relations for, (T), 24:42735
oscillations in bounded current-carrying thermal, constant-frequency, (E), 25:30624
oscillations in bounded current-carrying, potential, (T), 22:39115
oscillations in bounded hot, electrostatic, (T), 22:39109
oscillations in bounded magnetized hydrogen, nonlinear, (E), 21:35155 (CONF-670104-Pt.2, pp 325-34)
oscillations in bounded magnetized, longitudinal, (E), 25:9532
oscillations in bounded magneto-, electron stream coherent amplification in, 22:3082
oscillations in bounded one-dimensional nonuniform, longitudinal, (T), 24:26245 (AD-697979)
oscillations in bounded one-dimensional nonuniform, longitudinal, (T), 22:17685
oscillations in bounded, electrostatic, (T), 21:5278
oscillations in bounded, hot magnetized, resonance, (T), 23:32543
oscillations in bounded, lf microscopic, (T), 21:13578
oscillations in bounded, mathematical models for nonlinear mode interactions from, 21:18672 (ORO-3405-14)
oscillations in bounded, semiclassical theory for, (T), 25:22560
oscillations in bounded, symmetry of combination frequency spectra in, (T), 25:22554
oscillations in bounded, with external electric field, 22:3077
oscillations in boundless magneto-, uncoupled approximation for longitudinal electron, (T), 22:41581
oscillations in boundless Maxwellian, magnetic field effects on Landau damping of, (T), 22:7299
oscillations in C stellarator, Ohmic-heated, (E), 22:24242 (MATT-Q-25, pp 30-117)
oscillations in cesium, drift wave, 21:33402 (CONF-670104-Pt.1, pp 173-80)
oscillations in cesium, ion beam excitation of drift wave, 21:20943 (MATT-Q-23, pp 91-179)
oscillations in cold inhomogeneous, electrostatic, (T), 25:56242
oscillations in cold inhomogeneous, electrostatic, (T), 23:42362
oscillations in cold inhomogeneous, small-amplitude electrostatic, (T), 25:30623
oscillations in cold magnetized, effect of ion motion on parametric, (T), 25:49937
oscillations in cold magnetized, nonlinear, (T), 25:3160
oscillations in cold, finite temperature effects on magnetosonic, (T), 24:47277 (NYO-3782-4, App.1)
oscillations in cold, nonlinear, (T), 23:14833
oscillations in cold, virtual eigenvalues and singular eigenfunction expansion for, (T), 23:30552
oscillations in collisional, kinetic theory of, 22:24301
oscillations in collisional, nonlinear instabilities of Langmuir, (T), 24:40143
oscillations in collisionless alkali metal, noise from, (E), 23:27660
oscillations in collisionless bounded, surface-drift and current-convective, (T), 25:22552
oscillations in collisionless electron, frequency shift of nonlinear, (T), 23:42367
oscillations in collisionless, damping of, 21:15155
oscillations in collisionless, flute modes of, (T), 23:42371
oscillations in collisionless, gyroresonance of suprathermal, (T), 25:49639 (AD-721337)
oscillations in collisionless, in electric fields, growth of, (T), 21:33458
oscillations in collisionless, ion, (T), 22:13480
oscillations in collisionless, nonlinear, (T), 24:15372
oscillations in collisionless, perturbation theory for nonlinear, 22:31810
oscillations in collisionless, quasi-fluid electron flute modes of, (T), 23:23207
oscillations in collisionless, resonant electron effects on nonlinear, (T), 23:42369
oscillations in collisionless, water bag model in phase space for, (T), 24:47291
oscillations in column of inhomogeneous rarified, flute, 21:11675
oscillations in column, effect on cyclotron radiations from, (E), 24:37458
oscillations in constant electric fields, dispersion relations for, 22:48104 (UUIP-593)
oscillations in constant homogeneous electric fields, (T), 24:42728
oscillations in crossed electric and magnetic fields, (E), 25:45467
oscillations in crossed electric and magnetic fields, resonance excitation of ion cyclotron, 24:18012
oscillations in current-carrying thermal, constant-frequency, (E/T), 24:26274
oscillations in current-carrying weakly ionized, instability of nonpotential, (T), 23:14846
oscillations in current-carrying, buildup of electrostatic, (T), 25:49951
oscillations in current-carrying, electron cyclotron harmonic, 22:11447
oscillations in current-carrying, Newtonian-velocity sound in, (T), 25:3156
oscillations in current-carrying, nonlinear effects of, 21:27186
oscillations in current-carrying, overstable modes due to resistive gradients, 22:5374
oscillations in cylindrical columns of, low-frequency resonance, 21:31443
oscillations in cylindrical current-carrying, potential, (T), 22:3086
oscillations in cylindrical non-neutral, electrostatic electron, (T), 25:27808
oscillations in cylindrical resonators, self, (T), 21:37483
oscillations in cylindrical, magnetoacoustic, (T), 23:20956 (NP-17813)
oscillations in cylindrically bounded, Landau damping of, (E/T), 21:18745
oscillations in cylindrically confined, dispersion relations for, 21:31446
oscillations in dc corona discharges, in rarefied air, (E), 25:49934
oscillations in dense electron gas containing a fixed-point charge, collective modes in, (T), 25:36239
oscillations in deuterium, helium, and neon partially ionized, (E), 23:27658 (N-69-14525)
oscillations in diodes, ion, (E/T), 24:26275
oscillations in discharge, ion—acoustic wave excitation of electron, (E), 22:17648
oscillations in discharge, nonlinear behavior of Tonks—Dattner resonance, (E), 23:42283
oscillations in electric and magnetic fields, dispersion relations for, 22:46166
oscillations in electron beam—plasma system, ion, (T), 25:47534
oscillations in electron beam-produced, properties of, 21:5280
oscillations in electron, dispersion relations for, (E), 21:27131 (TID-23760, pp 123-36)
oscillations in electron, dispersion relations for, (T), 23:30589
oscillations in electron, nonlinear kinetics of, 21:37465
oscillations in electron, nonlinear theory of, 21:29261
oscillations in electron-beam-produced, microwave scattering on, 21:7214 (TID-23459, pp 37-58)
oscillations in electron-cyclotron resonance discharge in helium, low-frequency, (E), 21:2229 (TID-23318, pp 123-6)
oscillations in energetic electric arcs, properties of, (E), 21:7206(R) (AD-634023)
oscillations in external electric fields, initial value problems for, (T), 23:20970
oscillations in external electric fields, kinetic theory of, 21:42073
oscillations in finite pressure, drift wave, (T), 21:5310
oscillations in finite slab of, (T), 21:2192 (TID-23318, pp 127-72)
oscillations in finite-conductivity, dispersion relations for, 21:37473
oscillations in finite-temperature, electrostatic, (T), 22:3119
oscillations in flow of nonisothermal, low-frequency resonant electric, (E), 23:51671
oscillations in glow discharge positive column, electromagnetic field effects on, (E), 23:44471
oscillations in Gulf GA quadrupole device, (E), 24:35488
oscillations in half-bounded, electromagnetic, 22:1242
oscillations in helium hf discharges, low-frequency, (E/T) , 23:1445
oscillations in helium positive column, device for analyzing, 21:31414
oscillations in helium, harmonics of ion, (E), 23:12930
oscillations in hf-field-immersed, dissipative—parametric buildup of, (T), 22:34721
oscillations in high-temperature, dispersion relations for, 22:15524
oscillations in high-voltage theta pinch, spectra of enhanced, (E/T), 24:8506
oscillations in highly ionized column of, spatially damped temperature, (T), 25:45517
oscillations in hollow cathodes in magnetic fields, ion, 24:37446
oscillations in homogeneous anisotropic low-pressure, (T) , 22:11431(T) (UCRL-Trans-10202)
oscillations in homogeneous collisionless, electrostatic, (T), 25:19750
oscillations in homogeneous, theory of electromagnetic, 22:3112
oscillations in homogeneous, ultrasound effects on longitudinal, (T), 21:44088
oscillations in hot cathode discharge, ion intensity, 21:15174
oscillations in hot electron magnetized, longitudinal nonlinear, (T), 25:36217 (UARAEE-88)
oscillations in hot, non-collisional damping of, 21:20961
oscillations in hot-cathode Penning discharges, lf, (E), 24:28366
oscillations in hot-cathode PIG discharge tube, (E), 21:9623
oscillations in hydrogen, correlation functions and dispersion relations for, 24:42719 (EUR-CEA-FC-474)
oscillations in hydrogen, electrostatic ion cyclotron, 21:33435
oscillations in ideal, in presence of radiation, (T), 22:31859
oscillations in inhomogeneous anisotropic, stability of electrostatic, (T), 22:20006
oscillations in inhomogeneous by compressible gravitating cylinders of, (T), 22:11457
oscillations in inhomogeneous cold, (T), 22:34655 (TID-24491, pp 123-6)
oscillations in inhomogeneous cold, (T), 22:46145 (TID-24666, pp 103-5)
oscillations in inhomogeneous cylindrical column of, (T), 21:33438
oscillations in inhomogeneous electron, collective modes in, (T), 24:8491 (NYO-1480-127)
oscillations in inhomogeneous flows, theory for, 25:45515
oscillations in inhomogeneous hf fields, relaxation, (E), 24:51742
oscillations in inhomogeneous magnetic fields, cyclotron, (T), 25:17248
oscillations in inhomogeneous magnetized, electrostatic low-frequency, (E/T), 25:3163
oscillations in inhomogeneous, convective modes of, (T), 23:14841
oscillations in inhomogeneous, dynamics of, (T), 23:1418 (LA-3990, pp A7.1-16)
oscillations in inhomogeneous, electrostatic, (T), 25:45498
oscillations in inhomogeneous, ion—acoustic, (E), 24:1463
oscillations in inhomogeneous, Landau damping of resonance, (T), 25:11941
oscillations in inhomogeneous, review of, 22:3113
oscillations in inhomogeneous, theoretical models for resonance, 24:19923
oscillations in inhomogeneous, theory for electrostatic, 23:27661
oscillations in inhomogeneous, Vlasov solution for, (T), 21:35160 (CONF-670104-Pt.2, pp 511-20)
oscillations in iodine vapor, kilocycle, (E), 21:27222

oscillations in ion-beam-produced, collective, (E/T), 25:36220
oscillations in isotropic homogeneous, power spectrum from collective, (T), 22:17681
oscillations in isotropic, production and detection of Landau, 21:27146 (SU-IPR-100)
oscillations in L-1 stellarator, (E), 23:32389
oscillations in Lagrangian, eigenvalue problem for, 21:27154
oscillations in laser-produced, ion, 21:31403
oscillations in Liven-1 stellarator, (E), 23:14740 (NP-17762)
oscillations in Liven-1 stellarator, (E), 23:42352(T) (AEC-tr-7054)
oscillations in long gas discharge, microwave, (E), 22:50159
oscillations in Lorentz electron gas, longitudinal, (T), 25:22558
oscillations in Lorentzian electron gas, Landau damping of longitudinal, (T), 25:27822
oscillations in low-density helium, correlation of power and optical, 24:35450
oscillations in low-pressure discharges in magnetic fields, (E), 25:1246
oscillations in low-pressure discharges, longitudinal, 22:50182
oscillations in low-pressure gaseous discharges, 24:12853 (AD-481429)
oscillations in low-pressure Penning discharges, (E/T), 25:36242
oscillations in low-temperature helium discharge, effects of wall temperature on, (E), 23:32540
oscillations in magnetic field of relativistic electron, covariant dispersion relations for, (T), 24:15313
oscillations in magnetic field, damping of, 21:33418
oscillations in magnetic fields, feedback suppression system for current-convective, (E/T), 25:33311
oscillations in magnetic fields, instabilities in parametric, (T), 24:26257
oscillations in magnetic mirror machines, stable and unstable flute, 22:11430 (ERL-M-213)
oscillations in magnetic well of DECA II, ion cyclotron, (E/T), 23:16836 (CEA-CONF-1004)
oscillations in magnetized afterglow, with transverse currents, (E), 25:36175
oscillations in magnetized carbon arc, low-frequency, 22:15539
oscillations in magnetized, modulation of magnetic, (E), 24:51734
oscillations in magnetized, with anisotropic initial distribution, (T), 21:18684
oscillations in magneto-, effect of ion viscosity on destabilization of, 21:29293 (NP-16768)
oscillations in magneto-, effect of neutral impurity levels on spectra from, (E), 22:24298
oscillations in magneto-, excitation of longitudinal, (T), 21:16948
oscillations in magneto-, induced dispersion of Langmuir, 21:15159
oscillations in magneto-, nonlinear drift, 21:46347
oscillations in magneto-, quasi-linear theory of, 21:27170
oscillations in Maxwellian, computer check of analytic second-order theory of, 22:34661
oscillations in Maxwellian, damping and dispersion of, (T), 21:3844
oscillations in Maxwellian, nonlinear, (T), 22:24341
oscillations in Maxwellian, quasilinear theory of ion, 24:12862
oscillations in Maxwellian, third-order, (T), 21:18690
oscillations in mercury dc discharge excited by microwaves in Tonks—Dattner mode, low-frequency, (E), 24:15364
oscillations in mercury discharge, effect of dc conductivity on, (E), 23:32529
oscillations in mercury-vapor, parametric excitation of, (E), 21:37458
oscillations in microwave-produced, 21:20943 (MATT-Q-23, pp 91-179)
oscillations in minimum-B confined, magnetic moment calculation in, 21:33431
oscillations in MPD arc thruster, spectra of, (E), 25:7384
oscillations in multilayer, dispersion relations for surface, 23:3504
oscillations in multipole experiments, trapped-particle modes in, (T), 23:16812
oscillations in multipole-confined, (T), 23:8621
oscillations in multipole-confined, ballooning modes of, 22:11433
oscillations in negative hydrogen ion-rich reflex discharges, low-frequency, (E), 25:52881
oscillations in negative ion, dispersion relations for, (T), 21:33401 (CONF-670104-Pt.1, pp 119-28)
oscillations in non-Maxwellian, electrostatic, (T), 23:1414 (LA-3990, pp A2.1-7)
oscillations in nonequilibrium electron gas, correlation functions for, (E), 24:12863
oscillations in nonequilibrium, nonlinear, (T), 24:17997
oscillations in nonhomogeneous, damping of electromagnetic, 21:31447
oscillations in nonuniform cylindrical, in magnetic field, (T), 21:35179
oscillations in nonuniform magnetized, Nyquist diagrams for low-frequency, (T), 23:12915
oscillations in nonuniform, electro-acoustic resonances of, (T), 23:25394 (AD-680407)
oscillations in nonuniform, nonlinear theory of hf hybrid resonances in, 23:42375
oscillations in nonuniform, normal-mode theory for linear, 24:45295
oscillations in partially ionized deuterium, helium, and neon, continuity equations for, 24:28345
oscillations in partially ionized, in electric and magnetic fields, (T), 23:18711
oscillations in partially ionized, low-frequency ionization—diffusion, (T), 25:3152
oscillations in partially ionized, low-frequency, (T), 22:9341
oscillations in PIG discharges, resonant, 21:18686
oscillations in PIG hydrogen discharges in uniform and diverter-type magnetic field configurations, (E), 23:14818
oscillations in pinched columns, radial, (T), 24:19918 (IPP-1/104)
oscillations in plane diode, (T), 21:23203
oscillations in plane diodes, low-frequency, 22:44155
oscillations in plane, small transverse, (T), 21:44138
oscillations in positive column discharges, in magnetic fields, (E), 21:18712
oscillations in positive column of glow discharge, (E), 23:20957 (UCRL-18678)
oscillations in positive column of, transition from moving striation to helical, 21:9633
oscillations in positive-column, in large longitudinal magnetic fields, 21:13572
oscillations in presence of periodic Langmuir wave, 21:46359
oscillations in Q devices, electron temperature effects on, (E), 23:32508
oscillations in Q devices, lf, (E/T), 24:32860 (ORO-3405-31)
oscillations in Q devices, nonlinear relaxation of, (T), 24:17992
oscillations in Q devices, periodic pulling and transition to turbulence in, (T), 22:34649 (ORO-3405-21)
oscillations in Q devices, turbulent drift, (E), 22:24243 (MATT-Q-25, pp 118-65)
oscillations in Q machines in magnetic fields, induced scattering of, (E), 25:1248
oscillations in Q machines, minimum-B suppression of, 21:7245
oscillations in Q-device, noncorrelation with anomalous transport and equilibrium density in, 22:3080
oscillations in Q-machine, potassium, 21:15196 (MATT-522)
oscillations in quasineutral, effects of trapped particle motion on, 24:17970
oscillations in quiescent, destruction of coherent, 21:35157 (CONF-670104-Pt.2, pp 361-9)
oscillations in rarefied magnetized, low-frequency, 23:8625
oscillations in rarefied with noncompensated space charge, flute, 21:33403 (IAE-1176)
oscillations in rarefied with uncompensated space charge, flute, (T), 22:39116
oscillations in rarefied, in hf fields, (T), 25:40700
oscillations in rarefied, in presence of uncompensated space charge, (T), 21:18710
oscillations in rarefied, stability of ion cyclotron, (T), 24:40146
oscillations in rarefied, with surrounding walls of complex conductivity, (E), 23:5416
oscillations in relativistic, covariant theory of, 22:44148
oscillations in relativistic, in uniform magnetic fields, 22:7305
oscillations in relativistic, Landau damping of, (T), 21:25125 (CTS-PA-67-1)
oscillations in rf excited, dipole resonance, 22:3060
oscillations in rf resonant cavities, frequency shift in, (T), 23:34474 (CONF-680113-(Vol.3), pp 1025-36)
oscillations in sheath of, (T), 21:33464
oscillations in Sirius stellarator, turbulent, (E), 23:36734 (FTI-190)
oscillations in slab, nonlaminar effects in, 21:44057 (NASA-SP-153, pp 41-56)
oscillations in slab, resonant modes of electron, (T), 22:19983
oscillations in slabs of magneto-, radiative modes of, (T), 22:13482
oscillations in spherator, argon and hydrogen, (E), 23:27603 (MATT-Q-26, pp 1-141)
oscillations in spherical magnetized cold-cathode discharge, (E), 24:26248 (N-70-15129)
oscillations in spherical magnetized cold-cathode discharges, vlf, (E), 25:30617
oscillations in stable nonequilibrium, micro-field, (T), 23:25352
oscillations in temperate, Volterra integral equation for, (T), 23:30585
oscillations in toroidal discharge alpha device, spectra of, (E), 23:32527
oscillations in toroidal machine, properties of low-frequency, 21:40044
oscillations in toroidal octupoles, probe measurement of, 22:44160
oscillations in toroidal, in large electric fields, (E), 25:36237
oscillations in TP-D device, (E), 22:29506
oscillations in turbulent cosmic, quasi-linear approximation of spectral energy density of, (E/T), 25:2929
oscillations in turbulent microwave-heated stellarator, modes of, (E), 22:24242 (MATT-Q-25, pp 30-117)
oscillations in turbulent, kinetic theory of, (T), 23:46474
oscillations in turbulent, statistical mechanics of, (T), 21:2251
oscillations in two-stream, stability of transverse, (T), 22:41586
oscillations in unbounded longitudinal, diffusive transition of, (T), 23:46523
oscillations in uniform magnetic fields, damping of high-frequency, 21:37484
oscillations in uniform, near electron cyclotron harmonics, (T), 21:9586
oscillations in unstable, developments in nonlinear theory of, 21:27207(R) (NP-16763)
oscillations in unstable, longtime behavior of pulse, (T), 24:40134
oscillations in Vlasov in external electric field, electrostatic, (T), 21:27151
oscillations in Vlasov magneto-, theory of, 22:34681
oscillations in Vlasov, formulation of electrostatic, (T), 21:11673
oscillations in Vlasov—Maxwell, nonlinear, (T), 22:13483
oscillations in warm, microwave scattering from, 21:29204 (TID-23827, pp 71-134)
oscillations in weakly inhomogeneous, (T), 24:10579
oscillations in weakly inhomogeneous, with collisions, (T) , 24:21836
oscillations in weakly ionized collisional, (T), 24:1459
oscillations in weakly ionized, in crossed electric and magnetic fields, (E), 21:7256
oscillations in weakly ionized, longitudinal, (T), 24:32869
oscillations in weakly ionized, nonlinear, (T), 23:25396
oscillations in weakly ionized, quantum kinetic equation for electron, (T), 25:25176
oscillations in weakly turbulent hollow-cathode discharge, low-frequency, (E), 24:1456
oscillations in weakly turbulent, kinetic theory of, 22:31816
oscillations in weakly turbulent, phase velocity of, (T), 25:9515
oscillations in weakly unstable electron, numerical solutions for, (T), 23:34476 (N-69-20774)
oscillations in weakly unstable, nonlinear solutions for electron, (T), 23:48951
oscillations in Zeta device, turbulent, (E), 23:20959
oscillations in, amplification of fundamental mode through nonlinearity, 23:48946
oscillations in, approach to thermal equilibrium, (T), 21:13585
oscillations in, asymmetry of combination frequency spectrum of, 25:43410
oscillations in, beam-induced hf electron, (T), 21:16947
oscillations in, book on collective, 21:27194
oscillations in, boundary effects on, 21:7242
oscillations in, causal behavior of forced, (T), 21:13579
oscillations in, Chew—Goldberger—Low approximation for hydromagnetic, 24:28367
oscillations in, class of exact invariants for classical and quantum time-dependent harmonic, 23:19093
oscillations in, collision effects in small amplitude, 21:13597
oscillations in, collisional damping of, (T), 23:23212
oscillations in, collisional damping of, (T), 23:51742
oscillations in, continuity equations for low-frequency, (E/T), 23:14844
oscillations in, convective instabilities from, 22:5393
oscillations in, current excitation of longitudinal, (T), 23:10646
oscillations in, damping of Tonks—Dattner resonances from, 21:18740
oscillations in, density-gradient mechanism of parametric excitation in external oscillating electric fields, (T), 21:37478
oscillations in, detection using electron paramagnetic resonance, (E), 25:40716
oscillations in, determination using Raman scattering, 21:2249
oscillations in, dispersion relations for ion cyclotron, (T), 24:3438
oscillations in, dispersion relations for radiation damping of relativistic, (T), 23:46524
oscillations in, dispersion relations from correlation function measurements, (T), 23:32525
oscillations in, effect of electromagnetic wave field on longitudinal, (T), 25:52862 (KHFTI-70/58)
oscillations in, effect of ion—ion collisions and shear on resistive drift modes of, 21:33400 (CONF-670104-Pt.1, pp 111-18)
oscillations in, effect of symmetric double-humped velocity distribution on, (T), 25:17232
oscillations in, electromagnetic wave excitation of electron, 21:778
oscillations in, electromagnetically-excited, (T), 22:5345
oscillations in, electron beam excitation of longitudinal, (T), 21:16949
oscillations in, electron beam interactions with hf, (E), 24:37457
oscillations in, electron beam-induced, (T), 21:20968
oscillations in, electron temperature effects on excitation of ion cyclotron, 21:42121
oscillations in, electron temperature effects on ion acoustic, 21:13531 (ORNL-4063, pp 36-70)
oscillations in, electron untrapping in longitudinal, (T), 25:22557
oscillations in, electron-beam induced, (E), 21:16939
oscillations in, electron-beam induced, (T), 21:16943
oscillations in, electron-beam induced, (T), 21:16945
oscillations in, electron-beam-induced, (E), 21:7257
oscillations in, emission of intensity-modulated light from, (E), 21:23189
oscillations in, excitation by external hf fields, (T), 24:8497
oscillations in, excitation by local electron cyclotron resonance, (E), 24:10585
oscillations in, excitation near ion cyclotron frequency, 21:35163 (CONF-670104-Pt.2, pp 411-23)
oscillations in, excitation of electrostatic ion cyclotron, 21:7247
oscillations in, excitation of ion cyclotron, 21:20988 (MATT-Q-23, pp 181-320)
oscillations in, frequency multiplication from, 21:5285
oscillations in, frequency shifts from nonlinearity in, 24:21828
oscillations in, generation by electron beam, (E), 22:7332
oscillations in, helical electron, 25:30544 (IAE-1950)
oscillations in, higher-order approximations in theory of longitudinal, (T), 23:12905
oscillations in, inclined magnetic field effects on cyclotron resonance, (T), 21:15132
oscillations in, induced scattering and disintegrations of electron-acoustic, (T), 23:42370
oscillations in, initial-value problem for relativistic, 22:13472
oscillations in, instabilities in parametric, (T), 22:41599

oscillations in, integral equation treatment of linearized theory of electrostatic, 22:24296
oscillations in, interaction of electrons with, (E), 21:29233
oscillations in, interactions of low- and high-frequency, 21:15154
oscillations in, interactions of, (T), 21:7246
oscillations in, interactions of, (T), 22:29521
oscillations in, ion cyclotron wave interactions with hf, 21:18703
oscillations in, ion-beam induced, 21:16940
oscillations in, kinetic instability of flute, (T), 23:12890
oscillations in, kinetic theory of forced, 22:24347
oscillations in, Korteweg—de Vries equation for evolution of, 21:5298
oscillations in, Landau damping and growth of electrostatic modes of, (T), 21:13577
oscillations in, Landau damping factor for, (T), 21:7225
oscillations in, Landau damping of large amplitude, 21:44056 (NASA-SP-153, pp 25-30)
oscillations in, Landau damping of, (T), 21:23173 (66-C-155)
oscillations in, Langmuir probe measurement of drift-wave potential, (T), 25:27809
oscillations in, linear damping of sinusoidal, (T), 24:6563
oscillations in, localized electromagnetic, 23:3489
oscillations in, magnetic field effects on Langmuir, (T), 24:6566
oscillations in, method for solving nonlinear differential equations for, 25:7430
oscillations in, microwave diagnostics of, 21:9599
oscillations in, modification to Harris quasi-linear equations for, 22:9338
oscillations in, moments method for Landau damping of electrostatic, 21:46346
oscillations in, nonadiabatic behavior of electrostatic, (T), 22:24305
oscillations in, nonlinear effects near upper hybrid resonance, 21:13584
oscillations in, nonlinear ion cyclotron, 22:15523
oscillations in, nonlinear processes in, (E/T), 25:56229 (EUR-CEA-FC-602)
oscillations in, nonlinear stabilization of electron, (T), 22:22175
oscillations in, nonlinear theory for ion-beam excited, 21:15142
oscillations in, numerical solution of nonlinear parabolic equation for, (T), 24:3414 (INR-1099)
oscillations in, optical line modulation from high-frequency, (E), 24:10508
oscillations in, parametric coupling of electron and ion-acoustic, (E/T), 21:2254
oscillations in, parametric excitation and higher-order mode coupling in, (T), 23:23200
oscillations in, parametric resonance excitation of, 21:33415
oscillations in, perpendicular to magnetic field, (T), 21:9578
oscillations in, perturbation approach to, 22:31871
oscillations in, photon excitation of, (T), 21:5288
oscillations in, production of superthermal electrons in, (E/T), 23:12911
oscillations in, quantum effects on solution of dispersion relations for, 21:37490
oscillations in, quasi-linear theory of, (T), 25:19738
oscillations in, radiation from growing, 21:13616
oscillations in, radiations from, 21:7694 (IA-1082, pp 27-74)
oscillations in, relation between high-frequency and low-frequency, (E), 21:7223
oscillations in, relation of enhanced diffusion to high-frequency, (E), 21:7222
oscillations in, relation to anomalous diffusion, 25:17229
oscillations in, research at Stanford on, 25:45512(R) (SU-IPR-411)
oscillations in, research on, 21:7205(R) (AD-633974)
oscillations in, research on, 21:37440 (AD-650579)
oscillations in, research on, (E/T), 21:3897(R) (SU-IPR-106)
oscillations in, resonance interaction of flute, 22:39086
oscillations in, resonant electron interactions with turbulent ion—acoustic, (T), 25:1258
oscillations in, review of, 21:11659
oscillations in, review of atomic, 21:3852
oscillations in, review of nonlinear theory for, 23:36737
oscillations in, secular behavior of nonlinear equations for, (T), 21:13583
oscillations in, shear stabilization of drift, (T), 21:29304
oscillations in, sheet model for plane, (T), 21:11622 (IPPJ-52)
oscillations in, singular solutions to equations for, 21:3859
oscillations in, sinusoidal density gradient computer experiment, (E/T), 24:35372(R) (UCB-34-P-128-14)
oscillations in, spectra measurements of width of, 24:30318
oscillations in, statistical analysis of, 22:26413
oscillations in, statistical theory of nonequilibrium, 21:37492
oscillations in, structure of large-amplitude longitudinal, (T), 25:40706
oscillations in, studies of Hall effect in, 25:30544 (IAE-1950)
oscillations in, suppression of ion oscillations by electron, (E), 23:3526
oscillations in, theory for ultrasound, 21:7217
oscillations in, theory of longitudinal, 22:9380
oscillations in, turbulence from electrostatic, 21:37447 (N-67-18008)
oscillations in, two-dimensional computer analysis of noise in, 22:31852
oscillations in, variational calculations for velocity space, (T), 23:14843
oscillations in, "water bag model" for nonlinear electron, 23:1450
oscillations in, water-bag model solutions for nonlinear electron, 24:26278
oscillations in, with Fermi distribution of electrons, (T), 23:25417
oscillations near column edge of Q device, effects of pressure drifts on, (E), 25:36245
oscillations near electron cyclotron harmonics in, nonlinear, 22:44182
oscillations of astrophysical, non-linear, (T), 22:34132(R) (AD-661573)
oscillations of cylindrical, in pressure equilibrium with cold gas blanket, (T), 23:30581 (NP-17879)
oscillations of degenerate relativistic, longitudinal, (T), 25:30529
oscillations of density and local potential in cesium, phase shifts in, (E), 24:3431
oscillations of diffusion layer, in magnetic fields, (T), 23:46498
oscillations of drift waves in inhomogeneous, nonlinear, (T), 24:6565
oscillations of free-burning electric arc, in oscillating transverse magnetic field, (T), 24:32847
oscillations of inhomogeneous, normal mode representation of hf properties of, (T), 23:18699
oscillations of magnetized, in standing wave, (T), 25:22565
oscillations of nonuniform finite-pressure, (T), 22:20010
oscillations of positive column in, measurement of light intensity for detection of, (E), 21:9601
oscillations of relativistic in magnetic fields, statistical theory of, (T), 23:25411
oscillations of relativistic, in presence of an external magnetic field, (T), 23:30225
oscillations of solar, production of fast drift bursts in, 21:11357
oscillations of strongly turbulent microwave-heated, in Etude stellarator, 22:36905 (MATT-580)
oscillations of two-component, in magnetic field, stability conditions for, (E), 23:44463 (AD-685889)
oscillations of Vlasov, in magnetic fields, (T), 22:39084
oscillations of, in constant magnetic field, effect of high-frequency electric fields on, (T), 23:51670
oscillations of, ion—electron hybrid resonance with partial propagation along the magnetic field, (T), 21:18708
oscillations produced by smooth large disturbance in nonisothermal, (E), 22:46185
oscillations with frequency of one-half the ion-cyclotron frequency, stability of, (T), 24:10582
oscillations, derivation of momentum equations in many-particle systems, (T), 21:15172
oscillations, perturbation of potential field in many-particle systems, 21:15173
oscillations, solution of transcendental equations for, (T), 21:11657
parameter estimation by mathematical statistics, 22:3100
parameters in, in supernova envelopes, (T), 22:13112
particle acceleration and deceleration in inhomogeneous magnetic fields, bimodal diffusion mechanism of, (T), 22:52676
particle acceleration in cosmic, (T), 22:21972
particle acceleration in solar-flare, (T), 23:36423
particle density and diffusion in energetic electric arcs, effects of magnetic fields and pressure on, (E), 21:37459
particle density profile in negative glow neon, radial, (E), 21:3842
particle distribution around infinite charged cylinder in, (T), 22:24290
particle distributions in stream of, device for forming replica images of, 22:36902(P)
particle scattering by waves in, test, (T), 21:42120
particle stability in quasineutral, oscillating trapped, 24:17970
particle—spin orientation in astrophysical, dynamic, (T), 25:2831
permittivity at cyclotron resonance in large electromagnetic fields, (E/T), 24:21777
perturbation near electrodes in, analysis of region of, 22:50071
perturbation of, by strong electromagnetic wave, (T), 23:8624
phase transition in imperfect metal-vapor, formation of heavy negative charged clusters in, (T), 25:3086
photo-emitting plate in interplanetary, potential distribution around, (T), 24:32572
photoionization cross sections for, using spectral analysis, 21:5292
photon absorption in nonrelativistic, free—free, (T), 25:47537
photon scattering in cold, theory of inverse Compton, (T), 25:13941
photon scattering on electrons in, Green function analysis of, (T), 23:32422
photon scattering on quantum, perturbation-theory derivation of cross sections for, 23:3478
photon spectra of, Bose condensation and shock waves in, (T), 23:8622
physics of quiescent, conference on, 21:35131 (CONF-670104-(Pt.1))
physics of, conference on, Milan, Italy, 6/63, 23:3435
pinch contraction in positive discharge columns, effects of nonuniform distribution on excitation and ionization processes in, (T), 24:51610
pinch discharge in methane, carbon V ion triplet-to-singlet excitation rate from spectral measurements in theta-, 22:31795
pinch discharges in cavity, calculation of neutron emission from deuterium—tritium, (T), 24:12845 (KFK-992)
pinch discharges in deuterium, deuteron acceleration and neutron production in z, (E/T), 24:30361
pinch discharges in helium, structure of Z-, (E), 24:5165
pinch discharges in thetatron, collective interactions in, (E), 24:45238(T) (AEC-tr-7164)
pinch discharges in thetatron, collective interactions in, (E), 24:15298 (KHFTI-69-32)
pinch effect for trapped particles in Tokamak devices, (T), 24:37430
pinch effect in argon rf induction, (E/T), 23:10641
pinch effect in argon, current sheet structure in z, (E), 24:26178
pinch effect in argon, radiations from, (E), 23:32368 (NP-17892)
pinch effect in argon, shock and current sheet structure in theta-, (E), 24:28263
pinch effect in dense deuterium, neutron production in, 22:34727 (LA-DC-9327)
pinch effect in deuterium, electrode metal effects on, (E), 24:6554 (AD-693125)
pinch effect in deuterium, ion energy distribution in strong, (E), 23:46464
pinch effect in deuterium, neutron and x-ray production in focused z, 22:34726 (AD-665416)
pinch effect in high-temperature, properties in theta, 22:41583
pinch effect in hydrogen, Thomson and Rayleigh scattering in preionization z, (E), 23:42280
pinch effect in low-density, current sheet structure in, (T), 24:45253
pinch effect in low-density, in QP device, (E), 23:32381
pinch effect in quadrupole hf fields, effect of interelectrode distance on, 22:46135 (IAE-1486)
pinch effect in shock-tube, properties of theta, (E/T), 23:1459
pinch effect in toroidal, electron trajectories in, 22:17657
pinch effect in toroidal, screw, 22:41569 (NP-17527)
pinch effect in turbulent, fluctuating electric fields from, (E), 25:38428 (CONF-710607-56)
pinch effect in, area waves in theta, 22:39135
pinch effect in, collisionless compression with anomalous friction in, (T), 22:17677
pinch effect in, computer simulation of, 22:1193 (LA-3770, Paper F2)
pinch effect in, current kinetics in theta-, (T), 24:26196
pinch effect in, current layer formation and acceleration in Z, (E), 23:30540
pinch effect in, effect of impedance on time variation of inverse, 23:7017
pinch effect in, effect of oscillating quadrupole field on kink modes of screw, (T), 23:18675 (LA-4081)
pinch effect in, effects on beta in theta-, (E), 22:17690
pinch effect in, experimental facilities for studying shock-heated toroidal z, 24:42714 (LA-4352)
pinch effect in, finite-resistivity instabilities in sheet, (T), 23:25375
pinch effect in, ion—acoustic instabilities in fast z-, (E), 25:7380(T) (MATT-Trans-102)
pinch effect in, kinetic theory of longitudinal, (T), 25:36135
pinch effect in, longitudinal current decay in toroidal screw, (E), 25:38456 (CONF-710607-15)
pinch effect in, mass pickup in low-energy theta, (E), 22:9343
pinch effect in, one-dimensional static solutions for, 22:3081
pinch effect in, properties of 90-MW rotating magnetic field, (E), 24:47220 (LRP-43/70)
pinch effect in, quasi-orthogonal theory for, 22:20005
pinch effect in, relativistic sheet with current shear, (T), 23:30558
pinch effect in, sheath stability in, (T), 22:1268 (LA-3770, Paper F3)
pinch effect in, shorting currents from theta-, (E), 23:51626
pinch effect in, skin effect in high-energy z, (E), 25:30507 (NP-18775)
pinch effect in, transport of intense relativistic electron beams in z-, (E), 25:40624
pinch effect in, two-dimensional dynamics with transverse magnetic fields in theta, 22:44163
pinch effect in, two-dimensional snowplough model for, 22:31853
pinch effect in, viscous effects in liquid conductor model of hard-core, (T), 22:19978
pinch effect in, Vlasov theory for supercritical magnetoacoustic compression pulse, 25:30513 (IPP-1/113)
pinch effect in, without interaction between plasma and neutrals at ends of theta, 22:1182 (LA-3770, Paper A8)
pinch formation and breakup in coaxial discharge, 22:1185 (LA-3770, Paper C5)
pinch implosion calculations for, ion Vlasov equations for theta, 22:13450 (67-C-166)
pinch in turbulent z discharges, skin effect in conductivity of, (E), 25:17201
plasma equilibrium in Tokamak devices, axisymmetric, (T), 25:7399 (IPP-3/1)
plasma jet interactions with stationary, Cherenkov and cyclotron instabilities from, 21:20990
plasmoid acceleration in super hf waveguides, 21:16927
plasmoid expansion in external magnetic field, variable conductivity, 22:22160
plasmoid expansion in laser-produced, in magnetic fields, (T), 22:13509
plasmoid forward velocity from button source, theory of Bostick, 23:3515
plasmoid injection along double-bend magnetic field, depolarizing currents in, 22:1190 (LA-3770, Paper E4)
plasmoid injection into transverse magnetic fields, properties of, 22:46115 (NP-17516)
plasmoid interactions with magnetic fields, properties in, (E), 23:25314(R) (AD-678093)
plasmoid interactions with magnetostatic field gradients, (E), 23:25315(R) (AD-678094)
plasmoid motion along axis of semi-infinite circular waveguide, 21:29271
plasmoid motion in axially symmetric spatially periodic magnetic field, (T), 24:49176
plasmoid motion in curved magnetic fields, collisional effects on, (E), 21:29252
plasmoid motion in longitudinal magnetic fields, adiabaticity of, (E/T), 21:15135
plasmoid motion in longitudinal, transverse, and two dimensional multipolar magnetic fields, (E), 21:18736

plasmoid motion in, precursor ionization in front of, (E), 24:37448
plasmoid production and motion in guiding magnetic field with mirrors, (E), 22:36932
plasmoid production and propagation in nonlinear Alfven waves in, (T), 22:36924
plasmoid production from, hydrogen, 21:23204
plasmoid production in magnetic-field-free space, creation model of, 24:49178
plasmoid propagation at high pressures, 21:37467
plasmoid properties in rf discharges, ion beam measurements of, (E), 23:34407 (AD-682992)
plasmoid properties in, variational method for determining, 21:44053 (CONF-670434-1)
plasmoid rotation in external hf fields in constant magnetic fields, (T), 24:1411
plasmoid structure in, variational calculations of, 22:1194 (LA-3770, Paper F4)
plasmoid velocity in, parameters controlling Bostick, (E), 23:14811
plasmoids in, Doppler measurement of kinetic energy of, 21:42057
plasmoids in, multipole degeneracy of eigenfrequencies in, 24:37478
plasmoids in, toroidal model for Bostick, (T), 23:12854
plasmon interactions in, (T), 21:7246
plasmons in, linear and nonlinear two-stream instabilities from, (T), 25:43387
polarization transfer in inhomogeneous magnetized, (T), 25:14286 (N-70-40979)
positron annihilation in, diagnostic use of, (E), 24:35381 (AD-702760)
positron annihilation in, nonrelativistic Hamiltonian for, 24:30336 (AD-702406)
positron annihilation in, theory for, 25:14290
positron creation and annihilation in low-density relativistic, (T), 25:45478
positron equilibrium concentration in optically thin relativistic, (T), 25:1207
potassium-ion motion in, in electric fields, 22:52807
potential distribution in magnetized cold, effects of electric fields on, (E/T), 22:7282
power flow from, with complex electrostatic-wave impedance, (T), 21:9593
power transfer to finite, near lower hybrid resonance, 22:1124
pressure broadening in, quantum theory of, (T), 22:39050
pressure buildup in high-density, high-temperature helium, 21:23163 (IPP-3/47)
pressure distribution in doubly ionized helium, thermomagnetic (Nernst) effect on, (E), 21:20969
pressure measurement in pulsed MHD wind tunnel, design of gage for, 21:34536
pressure of components of, partial, (T), 25:30539
probe impedance in anisotropic, loop, 21:14497 (N-67-10894)
probes in, superious second harmonics from modulated Langmuir, 22:1166
production and acceleration by hf fields in static magnetic fields, (E), 23:18665 (CONF-680113-(Vol.2), pp 525-40)
production and acceleration of, electrodeless device for, 21:11660(P)
production and acceleration of, methods for, 21:3882(P)
production and acceleration using resonant cavities, 24:24008(P)
production and confinement in mirror theta pinches, (E), 23:32316
production and confinement in spherical multipole magnetic fields, 22:44066 (INR-914)
production and confinement in spherical multipole magnetic fields, 22:44065 (INR-912)
production and confinement in straight hf quadrupole magnetic fields, 24:49112
production and confinement in Tokamak devices, space—time evolution of, (T), 25:3052 (CEA-CONF-1595)
production and confinement in toroidal geometries, (E/T), 24:51602 (AD-706401)
production and confinement in W IIa stellarator, electron cyclotron resonance, 25:7395 (IPP-2/85)
production and confinement of gun-injected, in C stellarator, (E), 22:24242 (MATT-Q-25, pp 30-117)
production and confinement of laser-produced lithium hydride, 22:1254 (LA-3770, Paper F5)
production and confinement of laser-produced, optical interferometer measurements of, (E), 24:35444
production and confinement of, device for, 24:17948(P)
production and confinement of, discharge device for, 23:20932(P)
production and confinement of, for sputter-propulsion engine, 21:8506
production and confinement, research on, (E), 23:36645 (JUL-567-PP)
production and diagnostics in PIG discharges, 21:7274 (AD-636956)
production and diagnostics of cesium, in thermodynamic equilibrium, 21:3883(R) (AD-641854)
production and diagnostics of electron cyclotron, using microwaves, (E), 21:29287 (COO-1695-1)
production and diagnostics of keV high-density deuterium, helium, and neon, 21:7278
production and diagnostics of, design of vacuum surfaces for, 24:26221
production and diagnostics using lasers, (E), 23:51600 (CEA-CONF-1375)
production and expansion of argon, by carbon-dioxide laser pulse heating, (E), 25:30542
production and fluctuation measurement in linear quadrupole device, 21:33363 (MATT-Q-24, pp 1-195)
production and heating by electron cyclotron resonance absorption, (E), 25:22534
production and heating by hf waves in magnetic mirrors, (E), 23:30561(T) (NP-tr-1768)
production and heating by high-power electrostatic waves, (E), 25:49946
production and heating by intense photon and electron beams, (T), 23:36705 (UCRL-71775)
production and heating by laser irradiation of lithium hydrides, (E/T), 24:51690
production and heating by laser pulses, 23:1484(T) (NP-tr-1696)
production and heating by laser-irradiated solids, 25:36150
production and heating by lasers, research on, 24:42702
production and heating by lasers, review of, 24:17876
production and heating by microwaves, (E), 24:3382
production and heating by uhf waves, properties of, (E/T), 23:18576 (CONF-680113-(Vol.1), pp 11-48)
production and heating in metal chambers, properties of, 21:15187
production and heating in superconducting levitron, 25:38446 (CONF-710607-9)
production and heating in toroidal multipoles, by lasers and microwaves, (E), 24:3298 (UR-4054-6)
production and heating of deuterium, using lasers, (E), 23:23158 (CEA-R-3472)
production and heating of, performance of rf structure for, (T), 24:40099
production and heating processes in tokamak devices, (T), 25:38412 (CONF-710607-30)
production and heating using lasers, possibilities of, 25:59054 (MATT-782)
production and heating using lasers, properties of, 22:29526 (NP-17453)
production and kinetics of hydrogen-arc, in axial magnetic fields, 21:11661 (IPP-3/44)
production and loss from nitrogen afterglow, (E/T), 23:10675
production and properties from electron-bombardment ion sources, 21:13600 (AGARD-CP-8(Vol.1), pp 215-78)
production and properties from mercury ion beams, (E), 23:42328 (CEA-R-3724)
production and properties in Penning discharges, 23:10678
production and properties in spindle-cusp geometry, (T), 25:25129 (JUL-708-PP)
production and properties of cesium, in electric discharges, 21:44124
production and properties of high-temperature low-magnetic-field theta pinch, 22:24258
production and properties of hydrogen, by high-power microwaves, (E), 22:39118
production and properties of, review of, 22:13466
production and separation of alkali metals in magneto-, using contact ionization, 22:1260
production and stability of cesium, Pascal Q device for, 22:5379
production and stabilization by harmonic frequencies in Penning discharges, (E), 24:51691(P)
production and uses of induction-coupled, in analytical spectroscopy, 23:45181 (IS-T-309)
production at high levels of rf power densities, (E), 23:32439
production behind steady radiation fronts, (T), 23:41814
production by 1.5-MeV electron beam, spectra from, (E), 24:6547
production by 4-MeV electron beams, air and oxygen, 21:7275 (UCRL-50137)
production by carbon dioxide laser irradiation of solid hydrogen targets, (E), 25:52833 (IPP-IV-16)
production by CO_2 lasers, performance of, (T), 24:42700 (MATT-786)
production by combined transverse and longitudinal currents, properties of, 21:15190
production by conical electrode guns, properties of, 21:2267
production by contact ionization in Garching Octopole, cesium, (E), 23:32440
production by contact ionization, particle velocity distributions in, (E/T), 23:25365 (BMwF-FBK-69-3, pp 12.1-12)
production by cosmic-ray reactions with metallic surfaces, (E), 23:48915(T) (N-69-32778)
production by dc generators, dynamic current—voltage characteristics, 25:36161
production by dissociation of accelerated hydrogen cluster beam, 25:3109 (CEA-CONF-1610)
production by electric arcs, heat properties in, (E), 22:9396
production by electron beam injection into magnetic mirrors, (E), 23:48917
production by electron beam injection into magnetic mirrors, (E), 25:49906
production by electron beam irradiation of solid deuterium—tritium, (T), 25:38447 (CONF-710607-45)
production by electron beams, nonvacuum, 22:34714
production by electron beams, properties of, 25:33292
production by electron beams, theory for, 21:5079
production by electron ionization of gases, density effects on, (T), 21:33469 (CONF-670104-Pt.1, pp 107-8)
production by focused laser beam on thin target, (E), 21:29289
production by focused laser beams, review of, 25:33284(T) (NRC-TT-1450)
production by focused laser giant pulses on surfaces of aluminum, beryllium, and lead, (E), 21:25160
production by focused laser radiation on solids, (E), 22:50196
production by focusing laser emission on lithium deuteride surface, (E), 22:50198
production by giant pulse lasers, properties of, 22:29528
production by hf slotted line in magnetic mirror fields, (E), 24:3345
production by high-power Q-switched laser, research on, 21:37497(R) (WERL-3472-7)
production by high-power Q-switched laser, research on, 22:46180(R) (WERL-3472-11)
production by high-power Q-switched lasers, research on, 22:36947(R) (WERL-3472-10)
production by high-power Q-switched lasers, research on, 22:24350(R) (WERL-3472-9)
production by high-power Q-switched lasers, research on, (E/T), 22:7325(R) (WERL-3472-8)
production by injection of fast neutral atoms into a target plasma of dense energetic-ions, (T), 21:27198 (ORNL-4080)
production by injection of ionized molecular beams into magnetic fields, (E), 24:19901(P)
production by intense electron beam interactions with matter, (T), 25:36157
production by ion sources, principal properties of, 24:45257
production by ionization of gas by ohmically heated electrons, model for, 22:44185 (IPP-1/79)
production by laser beam irradiation of deuterium solid particles, 22:34716
production by laser beam irradiation of lithium hydride, research on, (E/T), 21:37496(R) (NYO-3578-6)
production by laser beam irradiation of lithium hydride solid particles, 22:11471(R) (NYO-3578-4)
production by laser beam irradiation of lithium hydride solid particles, research on, 22:41623 (NYO-3578-9)
production by laser beam irradiation of solid hydrogen foils, (T), 23:23161
production by laser beam irradiation of solid particles, 22:13441
production by laser beam irradiation of solid particles, 23:1489
production by laser beam irradiation of solid particles, 21:15182(R) (NYO-3578-5)
production by laser beam on polythene films, (E), 22:17700
production by laser beam, (E), 25:33221
production by laser beams, model for expansion of, (T), 25:47558
production by laser focusing in air and deuterium, (E), 23:14812
production by laser focusing on spherical particles, (E/T), 23:51678(R) (WERL-3472-14)
production by laser focusing on tungsten target, 21:7279
production by laser irradiation of argon, threshold conditions for, (T), 25:40661
production by laser irradiation of foils, x-ray temperature measurements for, 25:19701
production by laser irradiation of free targets, expansion properties of, (E), 25:36152
production by laser irradiation of lithium plates, motion and collision of two blobs, (E), 25:36158
production by laser irradiation of solid aluminum targets, uv emission from, (E), 24:51688
production by laser irradiation of solid deuterium, density scaling laws for, 25:40659
production by laser irradiation of solid deuterium targets, thermonuclear reactions in, 24:51714
production by laser irradiation of solid deuterium, neutron spectra from, 25:36203
production by laser irradiation of solid deuterium, energy transfer in, (T), 24:47260 (CEA-N-1337)
production by laser irradiation of solid deuterium, thermonuclear reactions in, 24:51716
production by laser irradiation of solid deuterium, (E), 25:38449 (CONF-710607-47)
production by laser irradiation of solid deuterium, (T), 25:38445 (CEA-R-4148)
production by laser irradiation of solid deuterium, neutron emission from, (E), 24:24081
production by laser irradiation of solid deuterium, focusing lenses for, 24:51686
production by laser irradiation of solid deuterium, thermonuclear reactions in, 24:51715
production by laser irradiation of solid hydrogen and deuterium, (E/T), 25:43380 (IPP-4/9)
production by laser irradiation of solid hydrogen foils, (E), 24:32846
production by laser irradiation of solid hydrogen foils, (E), 24:5177 (IPP-3/96)
production by laser irradiation of solid hydrogen and deuterium, (E/T), 25:38448 (CONF-710607-46)
production by laser irradiation of solid hydrogen, (T), 24:28302
production by laser irradiation of solid hydrogen, (T), 24:10555(T) (UCRL-Trans-10424)
production by laser irradiation of solid hydrogen, (T), 24:5176 (IPP-3/95)
production by laser irradiation of solid hydrogen, (E), 22:1262
production by laser irradiation of solid hydrogen, numerical computation of, 22:52821 (IPP-3/74)
production by laser irradiation of solid nickel targets, (E), 25:9484
production by laser irradiation of solid particle, heating and confinement in, (E), 23:32438
production by laser irradiation of solid particles, research on (E/T), 24:24007(R) (NYO-3578-11)
production by laser irradiation of solid target, spontaneous magnetic fields in, (E), 25:33285
production by laser irradiation of solid targets, 24:51685
production by laser irradiation of solid targets, review of, 25:36149
production by laser irradiation of solid targets, techniques for, 25:36151
production by laser irradiation of solid targets, stimulated Raman scattering in, (E), 25:49907
production by laser irradiation of solid targets, (T), 24:35443
production by laser irradiation of solid targets, interactions with uniform magnetic fields in, (T), 24:51683 (EUR-CEA-FC-548)
production by laser irradiation of solid, dynamical calculations for one-dimensional geometry, 23:3516
production by laser irradiation of solids, 21:15191
production by laser irradiation of solids, ionization processes in, (T), 24:51689
production by laser irradiation of solids, shock-wave kinetics from, (T), 25:36153
production by laser irradiation of targets, (E), 25:27724
production by laser irradiation, bibliographic references on, 25:3110 (IN-1425)

production by laser irradiation, efficiency of, 25:36155
production by laser irradiation, heating and expansion properties in, 22:50126(R) (EUR-CEA-FC-352)
production by laser irradiation, high-density and high-temperature, (E/T), 25:36156
production by laser irradiation, probe method for ion measurements from, 25:30477 (NP-18765)
production by laser irradiation, use with transformers for electricity generation, 24:51477(P)
production by laser sparks, in air, (T), 24:40094
production by laser-beam irradiation of light solids, (T), 23:30563
production by laser-beam irradiation of metallic surfaces, problems in, (E), 22:22188 (SC-DC-67-3217)
production by laser-beam irradiation of nonmetals, 23:10676
production by laser-beam irradiation of solid deuterium, neutron emission from, (T), 24:10558
production by laser-beam irradiation of solid particle, (E), 24:26214(T) (LA-tr-70-6)
production by laser-beam irradiation of solid particles, research on, (E/T), 23:14810(R) (NYO-3578-10)
production by laser-beam irradiation of solid particles, thermoelectron emission and plasma divergence in, 22:46186
production by laser-beam irradiation of solid particles, (E), 23:32435
production by laser-beam irradiation of, temperature and magnetic field increases in, (T), 24:10557
production by laser-beam irradiation, ionization by uv radiation in, (E), 23:34441(T) (NP-tr-1790)
production by laser-beam irradiation, properties of, (E/T), 23:39491(T) (NP-tr-1823)
production by laser-beam reactions with surfaces, (E), 21:3661
production by laser-induced spark in helium, time and space parameter development for, (E/T), 23:30562
production by laser-irradiation of air, pulse width effects on, 25:33287
production by laser-irradiation of aluminum targets, model for, (T), 25:33293
production by laser-irradiation of lithium hydride solid particle, 23:7022 (CEA-CONF-1010)
production by laser-irradiation of polyethylene, expansion of, 25:25130
production by laser-irradiation of targets, ion emission from, 25:31137
production by laser-irradiation, use for power generation and space propulsion, 25:5104
production by laser-produced radiation, (E), 23:5437
production by laser-produced sparks in 200-kG magnetic field, (E), 23:5438
production by lasers, expansion anisotropy in, (E/T), 23:12871
production by lasers, ionization kinetics of, (T), 24:17947
production by lasers, review of, 25:1219
production by lasers, solid hydrogen pellet fabrication for, 24:49177 (IPP-4/3)
production by lasers, wave phenomena during growth of, 24:47262
production by magnetic induction at low frequencies, (E/T), 25:52835
production by microwaves at electron cyclotron resonance in waveguides, (E), 23:42331
production by microwaves near electron cyclotron resonance, (E), 25:1217 (NP-18503)
production by microwaves near electron cyclotron resonance of, with variable temperature and density profiles, (E), 24:49179
production by molecular ion injection and trapping in magnetic mirrors, 25:27725
production by molecular ion injection into magnetic mirrors with supplementary rf electric fields, (E), 25:52838
production by multibeam laser system, 24:28304
production by neutral beam injection into magnetic mirrors, 25:38451 (CONF-710607-98)
production by photoionization from pinch discharges, (E), 24:42705
production by pulsed discharges, research on, 22:34712(R) (AD-661327)
production by rf helix, density characteristics in, (T), 25:14333
production by shock waves in an electromagnetic field, (T), 22:20024
production by shock waves, computer program for equilibrium states in, 21:37494 (N-67-19934)
production by standing helicon waves, (E/T), 25:11908
production by strong hf fields, steady-state (T), 24:5174 (AD-691818)
production by strong uv radiation from linear pinches, hydrogen and rare gas, (E), 23:18670
production by surface ionization on tungsten, spectra from argon, 23:3514 (SC-RR-68-218)
production by tip explosion of wire electrode, spectra from, (E), 23:25366
production by titanium hydride injectors, (E), 25:47557
production by titanium sources, nonlinear properties of, 21:44122
production by two-photon ionization of cesium and sodium, (E), 24:51687
production by uhf microwaves, parameters of pulsed regime from, (E/T), 23:51681
production by uhf microwaves, parameters of stationary regime from, (E/T), 23:51680
production by wire explosions, temperature in, 22:5384
production costs of tenuous, volume ion, (T), 21:40036 (NASA-TN-D-4150)
production device for, film-cooling of generator anode of, 22:46184
production facility for simulating solar wind, 21:29100
production for drift-wave experiments, lithium ion source for, 24:28300
production for fusion research, review of, 25:3114
production for injection experiments, duoPIGatron source for, 25:45453 (ORNL-4688, pp 92-101)
production for use as light source for optical pumping, shock-wave, 21:11665
production from electromagnetic wave scattering on rough surfaces, 21:27196 (D-1-82-0581)
production from exploding wires, positive ion heating in, 22:11475
production from fast atom injection into magnetic traps, 22:41622 (IAE-1399)
production from high-speed shock propagation in air, rate of, 21:799
production from laser beam irradiation of single solid particles, 22:9382(R) (NYO-3578-7)
production from neutral injection into closed line magnetic traps, (T), 21:13607
production from particles of condensed matter, (T), 23:12868(T) (NP-tr-1726)
production from single solid particle, by giant laser pulse, (E/T), 23:39492
production in afterglow discharges, rate equations for, 24:42704
production in air, properties of laser-induced, 21:7280
production in back-streaming dc arcs, 23:1483 (N-68-25877)
production in coaxial discharge tubes, x-ray spectra from, 21:44119 (SC-DC-67-1864)
production in coaxial guns, 21:3884
production in confined-discharge generators, effects of local fluid constriction on, (E), 25:52837
production in conical theta-pinch source, (E), 21:23215 (SC-RR-67-108)
production in crossed-field devices, energy distribution in, 25:3115
production in discharge tubes, gas protection of quartz walls from heating in, (E), 24:6548
production in discharges in 100-kOe magnetic fields, flow in, (E), 23:18669
production in discharges using large V-groove cathodes, (E), 23:44443 (N-69-29140)
production in discharges when pressed to wall by magnetic field, (E), 23:20933
production in discharges, method and device for, 23:25367(P)
production in electric arcs with transpiration-cooled porous electrodes, 22:22190
production in electric arcs, electrode behavior in flowing, 21:20984
production in electric arcs, electron flow equations for, 21:13606
production in electric discharge shock tubes, 21:5302
production in electromagnetic shock tubes, kinetics of, 21:13605
production in electromagnetic shock tubes, precursor ionization, 25:9486
production in gas-filled cavity resonators by γ heating in reactors, microwave diagnosis for power monitoring, 22:37585
production in glow discharges, diagnostic studies in, 25:52834 (N-71-22676)
production in hf electrodeless discharges, properties of, 22:29527
production in hf vortex discharges, properties of, (T), 21:2265
production in high vacuum, fast acting valve for neutral gas injection for, 24:16928
production in high-energy discharges, spectral luminescence in, 21:3888
production in high-frequency fields, properties in, (E), 23:25364 (AD-677296)
production in high-pressure and high-current long arcs, (E), 25:3112
production in hollow cathode discharges, kinetics of, 21:7286
production in inductive hydrodynamic shock tube with high-speed valve, 23:46488
production in laser beam interactions with solid materials, 21:5308
production in laser beam interactions with solid particle lithium hydride, kinetics of, 22:3127(R) (NYO-3578-1)
production in laser beam interactions with solids, 21:7277
production in laser sparks, effects on external magnetic fields, 21:9615
production in laser sparks, electron density in, 21:23219
production in magnetic fields using lasers, resistive plasmoid expansion in, (T), 22:13509
production in magnetic fields, shock wave, (T), 21:23217
production in magnetic fields, using electron guns and resonant microwaves, (E), 23:34400 (ORNL-4401, pp 113-44)
production in magnetic mirrors at cyclotron frequencies, (E), 25:52831(R) (AD-720847)
production in magnetic mirrors by electron beam injection, 25:3113
production in magnetic mirrors, by superhigh-frequency fields, 21:35198
production in magnetic traps, review of laser beam, 21:44123
production in microwave discharges at harmonics of electron cyclotron frequency, (E), 25:49909
production in modified PIG discharges, 25:30543
production in nonstationary electric arcs, (T), 21:11664
production in Penning discharge with ring cathode, (E/T), 25:1216 (AD-709594)
production in Penning discharges, (E), 23:46486 (CEA-CONF-1312)
production in Penning discharges, ion energy and angular distributions from cathode, 21:15189
production in PIG discharges, noise analysis in, 23:3521
production in positive column discharges, wave propagation in, (E), 21:7281
production in proximity of changing dipole, polar and equatorial, (T), 23:41773
production in puffatron and Q-machine, 25:7475(R) (RISO-215)
production in Q devices, barium, 21:44125
production in reactors as indicator of power level, 22:37613(P)
production in reflex discharges, negative hydrogen ion, 24:35442
production in resonant cavities, frequency shifting method for, (E), 23:18666
production in rf discharges, efficiency of, 21:9614
production in rf helix with and without magnetic fields, density properties in, (E/T), 25:38452 (CONF-710607-139)
production in shock tubes, air flow luminescence front in, 21:5307
production in shock tubes, chemical and ionization equilibrium in, (T), 21:793 (AD-635761)
production in shock tubes, kinetics of, (E), 21:7284
production in shock tubes, precursor phenomena in, 21:798 (NP-16358)
production in shock tubes, total absorption coefficients for, 21:5301
production in spark discharges, shock wave effects on, (E/T), 22:13507
production in superhigh-pressure pulsed arcs, in argon and helium, (E), 24:47261
production in SUPPER II, using ionizing hydromagnetic waves, 21:37495 (NP-16892)
production in torch discharges, 21:31464
production in Tornado II device, 24:37479
production in transpiration-cooled arcs, uncertainties in, (E), 24:19902
production kinetics in electromagnetic shock tubes, argon, (E), 23:12869
production kinetics of hydrogen, in pulsed discharges, (E), 22:9381 (CEA-R-3185)
production of air, in stabilized arcs at 35,000°K, 23:42332
production of alkali metal, furnace design for, 21:42124 (RT/FI-(67)9)
production of alkali metal, generator design for, 21:35162 (CONF-670104-Pt.2, pp 397-409)
production of aluminum by high-power lasers, confinement of, 21:42125
production of ambi-, during metagalaxy development, separation of matter and antimatter in, (T), 22:9305 (N-67-22498)
production of argon and krypton, using lasers, 21:5305
production of argon in positive columns, striation motion from, (T), 21:7287
production of argon in positive columns, striation motion in, (E), 21:7288
production of argon, by photoionization in spark discharges, (E), 22:13511
production of argon, by superhigh-frequency fields, 23:3513 (NP-17674)
production of argon, for use in MHD experiments, 22:1263
production of argon, properties of shock wave, 21:9616
production of beryllium and deuterium, by laser beams, properties of, (E/T), 23:10679
production of beryllium, using lasers, (E), 22:22187 (CEA-R-3296)
production of cesium by thermal ionization, magnetic field effects on diffusion in, 24:42703
production of cesium, by two-photon laser beam, (T), 21:23213 (CEA-R-3113)
production of cesium, design and performance of device for, 21:33476
production of cesium, device for, 23:10612
production of cesium, in arc discharges, 21:46375
production of clusters of, in dc arcs in inhomogeneous magnetic fields, 25:11905
production of completely ionized, device for, 21:20987(P)
production of dense deuterium, by giant laser pulse, (E), 23:32436
production of dense deuterium, using hydromagnetic accelerators with fast z-pinch, 22:1250 (LA-3770, Paper C1)
production of dense hot, research on, (E), 25:47553 (AD-715275)
production of dense low-temperature, shock tubes for, 25:3116
production of dense thermonuclear, by intense field emission discharge, possibility of, 22:48135
production of dense thermonuclear, by pulsed high-intensity field-emission discharge, (E), 23:1487
production of dense, by exploding wires, 23:7024
production of dense, by microwaves in magnetic fields, (E), 25:36160
production of dense, by pulsed microwaves, 22:1258 (LA-3770, Paper H7)
production of dense, image converter observation of focus discharge, 21:802
production of dense, research on, (E/T), 25:43381 (LGI-68/16)
production of dense, shock wave pre-ionization for theta pinches, 25:59056
production of deuterium and beryllium, from laser irradiation of solid targets, (E/T), 24:17946 (CEA-CONF-1460)
production of deuterium using lasers, time-resolved temperature in, (E), 23:51674 (CEA-CONF-1372)
production of deuterium, by laser-beam irradiation of solid particle, (E), 23:36706
production of deuterium, by short laser pulse, 23:8631
production of deuterium, by subnanosecond laser pulses, (E/T), 23:32441
production of deuterium, primary ionization coefficient for, 22:1261
production of deuterium, surface ionization for thermonuclear reactions, 23:3519
production of deuterium, using laser, device for, 23:1488
production of deuterium—tritium, by laser irradiation, 25:38454
production of ellipsoidal, in external static fields, (T), 25:22538
production of fissioning, in a shock tube, (E), 23:30565

production of helium, in non-LTE discharges, (T), 21:18759
production of high temperature, pulsed constricted arcs for, (E), 24:26215
production of high-density, as soft x-ray source, 21:19821
production of high-temperature lithium deuteride, using lasers, 22:1255 (LA-3770, Paper F6)
production of high-temperature lithium hydride, using laser beams, 21:801
production of high-temperature, by exploding wires, 23:10681
production of high-temperature, by laser heating, 21:25158(R) (WERL-3472-5)
production of high-temperature, device for, 22:5385(P)
production of high-temperature, device for, 24:8476(P)
production of high-temperature, laser use for, 23:20931
production of high-temperature, review of methods for, 22:31863
production of high-temperature, spark-gas technique for, 21:7290(P)
production of high-temperature, using lasers, 24:8047
production of high-temperature, z-pinch Columba device for, 22:1249 (LA-3770, Paper G3)
production of highly ionized argon, by shf fields, (E), 23:46485(T) (AEC-tr-7056)
production of highly ionized, by laser-beam irradiation, (E), 25:27723 (WASH-1159, pp 162-7)
production of highly radiative, using wall-stabilized pulsed arc, (E), 21:2272
production of highly stripped ion, by laser irradiation of solid particles, 24:8477
production of homogeneous field-free spherical, device for, 24:45261
production of hot dense, method and apparatus for, 21:27206(P)
production of hot, during atomic injection into magnetic traps, (T), 23:14809(T) (AEC-tr-7016)
production of hydrogen column, in magnetic field, 21:23224 (CEA-R-3130)
production of hydrogen, by laser beam irradiation of solid foils, (E), 22:26436
production of hydrogen, formation time for breakdown in crossed fields, (E/T), 22:26435
production of hydrogen, nonadiabatic theory of, 21:13347 (N-66-39932)
production of hydrogen, shock wave, (E/T), 21:15185(R) (SC-CR-66-2145)
production of hydrogen, shock-wave, (E), 21:13604
production of hydrogen, using lasers, 21:16952
production of intense, using lasers, 21:15181 (CEA-R-3109)
production of laser-produced deuterium, (E/T), 23:12866 (CEA-CONF-1205)
production of lithium deuteride, neutron emission from laser pulse, 23:7027(T) (UCRL-Trans-10287)
production of lithium hydride using lasers, expansion kinetics in, (E), 23:51676 (CEA-CONF-1390)
production of lithium hydride, by focusing two laser beams, 24:19904
production of lithium hydride, by laser beam irradiation of solid particles, (E), 22:24352
production of lithium hydride, by laser focusing on solid targets, 22:5380
production of lithium hydride, by laser irradiation of solid targets, 25:19702
production of lithium hydride, by laser-beam irradiation of solid particles, 22:13506(R) (NYO-3578-8)
production of lithium hydride, by laser-beam irradiation of solid particle, (E), 23:32437
production of lithium hydride, hydrodynamic model for laser, 22:52822
production of lithium hydride, using lasers, 21:37500
production of lithium, laser, 22:34597
production of lithium, spectra from electric discharge, 21:20986
production of lithium, volt—ampere calculations of low-pressure arcs for, 22:9389
production of low-frequency induction, using magnetic materials, (E), 24:40093 (AD-704586)
production of low-temperature, design and performance of electric arc source for, 22:52825
production of low-temperature, plasmatron design for, 21:31465
production of magnetized, using microwaves, (E), 24:21774
production of mercury, in shock tubes, 21:13599(R) (AD-640245)
production of molecular hydrogen, nonequilibrium, 21:7282
production of multiply charged ions by laser irradiation of solids, 24:37480
production of nitrogen, for pulsed MHD accelerators, 21:46378
production of nitrogen, in hf ring electrode discharges, 21:15186
production of nuclear-seeded, for magnetohydrodynamic generators, (E/T), 24:51470 (AD-707420)
production of potassium-seeded argon, plasmatron for, 23:10674
production of predetermined electron-density, electronic tuning for, 24:30348
production of pure hydrogen, palladium and titanium sources for pure hydrogen, (E), 25:52836
production of pure, in ellipsoidal systems using spherical explosives, 24:35445(P)
production of quasi-electron-free, using electronic attachment, 25:5103
production of quiescent alkali, using porous ionizers, 21:35192 (CONF-670104-Pt.2, pp 601-16)
production of quiescent arc, by hollow-cathode discharge, (E), 21:2192 (TID-23318, pp 127-72)
production of quiescent cesium, in thermal ionization chamber, 21:35194 (CONF-670104-Pt.2, pp 617-25)
production of quiescent discharge with high electron temperatures, 21:33363 (MATT-Q-24, pp 1-195)
production of quiescent discharge, with high electron temperatures, 22:20023
production of quiescent, by nonresonant rf absorption, (E), 24:26218
production of quiescent, in skipping magnetic fields, (E), 25:59055
production of quiescent, photon, 24:26219
production of quiescent, using surface ionization, 21:35195 (CONF-670104-Pt.2, pp 633-6)
production of quiescent, with T/sub i/ > T/sub e/ in magnetic fields, (E), 25:9483
production of rare gas, in electrodeless discharges, 21:2266
production of rf quiescent, for pre-ionization in confinement devices, 25:47556
production of steady-state, feedback control of, (E), 25:19713
production of thermally ionized with negative ions, 21:20943 (MATT-Q-23, pp 91-179)
production of thermally ionized with negative ions, in Q device, 21:33363 (MATT-Q-24, pp 1-195)
production of thermionic lithium, for drift wave studies, 23:51677 (CLM-R-98)
production of three-component quiescent, from cesium chloride, 24:26220
production of three-component, kinetic model for, 21:800
production of turbulently heated electron, for shielding of Franck—Condon neutrals, (E), 25:17191
production of xenon and xenon—neon, in shock tubes, kinetics of, 22:3129
production of zirconium iodide, using laser irradiation of solid particles, (E), 22:22189
production of, arc design for steady-state, 23:1482 (AD-671979)
production of, autoionization properties for, 21:33474
production of, by free expansion of gas, (E), 25:40657(P)
production of, design of reflex source with axial extraction for, 25:3111 (LYCEN-7065)
production of, development of neodymium glass laser for, 25:11906
production of, development of porous ionizers for, 24:5175(R) (COO-1776-5)
production of, device for, 22:41626(P)
production of, explosive generator powered theta pinch for, (E), 23:20930 (SC-RR-69-51)
production of, funnel-type source for, 24:1441
production of, gas purifier for device for, 21:17582
production of, generator for, 22:11476(P)
production of, generator for, 22:44187
production of, high-density electron beams for, (E), 24:51692(P)
production of, high-pressure inductive plasmatron torch for, 24:12835
production of, high-pressure pulsed arcs for, 21:35197
production of, high-temperature and high-power stabilized electric arcs for, 21:27195(T) (AD-640728)
production of, igniting aid for high-efficiency, 25:43382(P)
production of, in charged particle source, 22:41625(P)
production of, ion source design and performance for, 24:45259
production of, magnetic field effects on thermal, (T), 21:3889
production of, new device for, 21:18635(P)
production of, performance of hot cathode Penning discharges for, 21:44121
production of, planar source for, (E), 23:12867 (NP-17746)
production of, planar source for, (E), 23:44442(T) (AEC-tr-7057)
production of, plasmatron development for, 25:40654 (INR-1285)
production of, properties of vortex-stabilized plasmatron for, (E), 22:9395
production of, properties of, (T), 21:9618
production of, Q-switched laser development for, 21:31463(R) (WERL-3472-6)
production of, source for space flight simulation, 25:19700 (NP-18722)
production of, titanium electric arcs for, 21:18756
production of, use of lasers for, (E), 23:46490
production of, voltage—current characteristics of linear dc arcs for, (E), 25:49908
production processes for rare gas, in discharge column, (T), 21:2269
production rate of cesium, in electric discharges, 21:18751 (NP-16613)
production system for, stability of rf, 21:796 (LRP-27/66)
production using discharges with large V-groove cathodes, (E), 25:40656
production using divertor-type sources, performance of, 24:40098
production using electron beams in waveguides, density of, 21:5304
production using laser beams, 24:17945 (CEA-CONF-1342)
production using laser beams, photon correlations in, 21:3886
production using laser beams, review of, 21:18757
production using laser radiation, review of, 23:34440(T) (AD-683171)
production using laser sparks, properties of, 21:35199
production using laser-beam irradiation of solid spheres, expansion kinetics in, (E), 23:18668
production using lasers and pulsed discharges, comparison of, 21:46376
production using lasers, acceleration in, (T), 22:9383(T) (NP-tr-1605)
production using lasers, apparatus for solid target positioning for, 23:1486
production using lasers, basic theory for, 21:46377
production using lasers, bibliography on, 23:30526 (STI/PUB-21/35)
production using lasers, breakdown mechanisms for, 21:33477
production using lasers, breakdown wave analysis for, (E/T), 23:10680
production using lasers, collisionless shock analysis in, (E/T), 23:27643(R) (ORO-3819-1)
production using lasers, confinement of, (E), 23:18673 (AD-673512)
production using lasers, diagnostics of, 21:3833
production using lasers, efficiency estimate for x ray production in, (E), 23:23157 (AD-672964)
production using lasers, electron counting in, (E/T), 23:51675 (CEA-CONF-1376)
production using lasers, energy adsorption measurements in, (E), 23:46487 (UCRL-50708)
production using lasers, evolution of, (T), 23:18667
production using lasers, ponderomotive force in, (T), 25:14332
production using lasers, precursor ionization fronts from, (E/T), 25:45488 (ORO-3819-4)
production using lasers, preparation of thin solid hydrogen targets for, 23:16827
production using lasers, review of, 25:11907
production using lasers, review of, 21:33470 (UCRL-70501)
production using lasers, review of, 25:59058
production using lasers, spark analysis in strong magneric fields, (E), 22:13508
production using long-wavelength lasers, 25:38450 (CONF-710607-48)
production using multiple laser beams, (E), 21:12027(R) (UCRL-50001-66-2)
productions using lasers, optical constants for, (E/T), 23:23159 (IPP-3/81)
propagation on column of, nonlinear excitation of surface, (E), 22:24293
properties around line dipole—line current in, model for, (T), 23:36683
properties at high temperatures, bibliography on chemical and physical, 22:5417 (NP-17130)
properties at pressures up to 130 atm, arc and radiation, (E), 25:30509
properties from pulse discharges in axial-turbulent air flows, (E), 23:12792
properties in 1-MA z-pinch discharges, (E), 23:32377
properties in 8-meter theta-pinch device, 22:1180 (LA-3770, Paper A2)
properties in ac electric fields, 23:1435(T) (N-68-28449)
properties in ac flow-stabilized arcs, 22:39074 (N-68-21242)
properties in alternating electric fields, 22:17693
properties in alternating electric fields, (E), 22:17694
properties in anomalous glow discharges, at parameter changes of nanoseconds, 22:48105
properties in arc discharges in axial magnetic fields, hydrogen, 24:32845
properties in arc discharges, thermal conductivity and velocity, 21:40029
properties in arcs, combined effects of irradiation and conduction in, (T), 25:25123
properties in atmospheric argon arcs, thermal, (E/T), 25:25107
properties in auto-oscillating PIG discharges, nonlinear, 22:7289
properties in BSG-II, expansion and thermalization processes in, (E/T), 24:6529
properties in caulked stuffed cusp experiment, 22:11404(R) (LA-3831)
properties in cavity resonators, 24:28257
properties in cavity resonators, resonant frequency, (E), 24:40057 (AD-703743)
properties in cavity resonators, resonant frequency shift in, 21:35154 (CEA-R-3122)
properties in combined z and theta pinches, (E), 23:32396
properties in cylindrical arc columns, effects of natural radial convection on, (T), 24:3366
properties in dc external electric fields, steady-state, (T), 25:49905
properties in duoplasmatron source, effect of magnetic fields on, 24:45258
properties in dynamic z-pinch, discharge ignition effects on, (E), 25:59015
properties in electric arcs, effects of mass injection on, (E/T), 24:35405
properties in electric-driven shock tubes, cold electrode effects on, 21:46337
properties in electrodeless ring discharges, during ignition phase, (E), 25:25100 (JUL-691-PP)
properties in electromagnetic shock tubes, local thermal equilibrium, (E/T), 24:49133
properties in electromagnetically driven shock tubes, 22:3016 (IPP-3/58)
properties in fast MJ theta-pinch devices, 22:1195 (LA-3770, Paper G2)
properties in glow discharges, inertial, 23:10655
properties in high-beta mirror machines, two-dimensional equilibrium calculations for, 22:1133 (LA-3770, Paper B4)
properties in high-frequency ring discharges, 22:5366
properties in high-frequency theta-pinch discharges, 21:46341
properties in high-pressure and high-frequency discharges, (E), 24:12802
properties in high-pressure arcs, hydrogen, (T), 23:34434
properties in high-pressure electric arcs, 22:31806 (ORNL-4238, pp 67-104)
properties in high-pressure high-frequency discharges, (E), 24:21779(T) (JPRS-50157)
properties in high-pressure pulsed arcs, (E), 24:17908
properties in hollow cathode discharges, 21:35174
properties in hollow-cathode arcs, rotation, (E), 22:26389
properties in inductive electrodeless discharges, (T), 24:40090
properties in INTEREM mirror field with quadrupole coils, (E/T), 23:34376 (ORNL-4401, pp 25-44)

properties in inverse thetatron, 24:17981
properties in kiloampere discharges, 22:50156
properties in levitated toroidal multipole devices, (E), 23:32499
properties in linear current multipole, experiment, (E), 24:42716
properties in linear theta pinch devices, research in Garching, 22:1179 (LA-3770, Paper A1)
properties in linear z pinches, effects of repeated ignition of discharges on, (E), 24:49131(T) (AEC-tr-7170)
properties in low-pressure discharges, in longitudinal magnetic fields, (T), 25:25122
properties in low-pressure discharges, radial structure of, (T), 22:24294
properties in low-voltage arcs, research on, 22:34625(R) (AD-661304)
properties in magnetic dipole fields, bunching in, (T), 23:32433
properties in magnetic fields, quantum mechanical theory of nonlinear, 22:50177
properties in magnetic mirror machines, research on, 21:46300(R) (AD-641083)
properties in magnetized positive column, in turbulence, (T), 23:32416
properties in magnetostatic and electric fields, stationary state, 21:46368
properties in magnetostatic and potential fields, stationary state, 22:3093
properties in magnetostatic and potential fields, stationary state, 22:3044 (IPPCZ-66)
properties in medium-pressure positive column discharges, (T), 23:42312
properties in MPD arcs, with nonequilibrium ionization, 22:39067 (N-68-14559)
properties in negative glow discharges, (T), 23:32431
properties in nonstationary discharges, periodic, (T), 23:42311
properties in Penning discharges in inhomogeneous magnetic mirror fields, (E), 22:52779
properties in positive column discharges in magnetic fields, (E),' 25:22513
properties in positive column discharges, in transverse magnetic field, 22:3075
properties in positive column discharges, nonlinear asymptotic analysis of, (T), 22:13499
properties in positive column glow discharges, impedance and equivalent circuit for, (T), 23:23101
properties in positive column with hf fields, frequency effects on, 21:18702
properties in positive column, Galerkin method calculation for, (T), 23:14801
properties in pulsed capillary discharges, 22:44095
properties in pulsed toroidal discharges in crossed fields, (E), 22:29499
properties in Q devices, longitudinal inhomogeneities in, (T), 23:36689
properties in Q devices, radial electric field effects on, 21:33396 (CONF-670104-Pt.1, pp 67-77)
properties in Q devices, research survey on, 24:3327
properties in Q devices, review of, (E/T), 25:1188 (AD-709230)
properties in Q devices, stable state of thermally ionized, (E/T), 25:1189(T) (LA-tr-70-19)
properties in Q-devices, stable state, (E/T), 23:20898 (NP-17786)
properties in quasistatic hf electric fields, (T), 24:17938
properties in radiation-dominated electric arcs, temperature profiles, (T), 24:30344
properties in reflex arcs in low magnetic fields, 25:19666
properties in rotationally stabilized electric arcs, (T), 23:44419
properties in Scylla-1A theta pinch with crowbar, (E), 24:5183
properties in shf fields in steady-state condition, (E), 23:42259(T) (AEC-tr-7052)
properties in Sirius divertor, mass—energy, (E/T), 23:32364
properties in spindle-cusp geometry, (T), 25:25129 (JUL-708-PP)
properties in stabilized electric arcs, (T), 22:9361
properties in stationary electric arc in narrow-slot chamber, (T), 23:14802
properties in stationary electric arcs, helium, (E/T), 24:49130
properties in stellarators, for large electron mean-free paths, 25:38415 (CONF-710607-101)
properties in Target experiments, 22:52724 (CONF-671127, pp 77-97)
properties in theta pinches, very-high-density, (E), 23:32382
properties in theta-pinch discharges, electron bursts in, (E), 25:59021
properties in theta-pinch discharges, with superimposed azimuthal magnetic fields, (T), 25:36129 (UARAEE-102)
properties in toroidal arcs, with cold gas blanket, (T), 23:32425
properties in toroidal devices, effect of transverse magnetic fields on, (E), 23:12756
properties in toroidal discharge Polytron, with pulsed magnetic cusps, (E), 23:32397
properties in toroidal geometries, curvature effects on, 22:39058 (CEA-R-3490)
properties in toroidal multipoles, 22:31806 (ORNL-4238, pp 67-104)
properties in toroidal positive column discharges, 21:42100
properties in transient electric discharges, time-resolved studies for, 25:33249
properties in vortex-stabilized plasmatrons, 22:9362
properties in wall-stabilized toroidal electric arcs, (T), 25:40642
properties in wall-stabilized toroidal electric arcs, 25:14269
properties in Wendelstein WIIa stellarator, 24:47275
properties in z-pinch Columba experiment, 22:11404(R) (LA-3831)
properties in z-pinch discharges, pressure effects on, 22:7317
properties in Zeta discharge, energy flow in, (T), 23:18658
properties near cathode region of MPD arc jet, (E), 25:43353 (N-71-19984)
properties of afterglow, volume densities and wall currents in, (T), 25:45473 (SC-RR-710089)
properties of air and argon, dielectric, (E), 22:17654
properties of alkali metal—rare gas mixtures, in electric discharges, 21:31445
properties of anisotropic, pressure and dielectric tensor, (T), 25:17181
properties of argon and cesium, in electric arcs, 22:44128
properties of argon and helium afterglow, (E), 23:32385
properties of argon and helium in arcs, nonequilibrium, 24:37462
properties of argon in arc discharges, rotation, (E), 24:35409
properties of argon, in electric arc column, (E/T), 22:13500
properties of argon, in high-pressure arcs, (E), 23:51637
properties of argon, in low pressure positive column discharges, 21:27175
properties of argon, refractive index at 6328 A and 1.15 μ, 22:34641 (AD-666665)
properties of argon—cesium, at entrance of MHD generators, 22:5332
properties of argon—cesium, in shock tubes, 21:31440
properties of astrophysical, containing matter and antimatter, (T), 25:19466
properties of barium, cesium, and potassium, graphical compilation of, 22:3049 (SIT-2813-42)
properties of cesium arc, electron thermalization in, (E), 23:12813
properties of cesium chloride, in BARBARA Q device, 24:45244
properties of cesium thermal, in strong high-frequency electric field, 22:17667
properties of cesium, electric field effects on, 21:46340
properties of cesium, energy level, (T), 21:42097
properties of cesium, in electron-bombardment ion engines, 21:20948
properties of cesium, review of physical, 22:5349
properties of cesium-seeded helium in pulse discharges, physical, (E/T), 22:9329
properties of "classical" and "highly compressed", (T), 23:34432
properties of classical scalar, evaluation using relativistic Hartree approximation, 21:40026
properties of collisionless magnetized, viscosity, (T), 23:20915
properties of collisionless, collective effects on, 21:29230
properties of cometary, (T), 22:8858
properties of compressible, in waveguides, (T), 21:33456
properties of cool dense helium, using optical spectroscopy, (E/T), 25:40622
properties of cylindrical, Maxwell equation for potential, 25:11904
properties of dense intergalactic, (T), 23:48691
properties of dense, electric, 22:39039 (CONF-680704-2)
properties of electric-discharge, in magnetic fields, equipment for measuring, 23:3510
properties of electron, transients in, (T), 24:26187 (AD-697947)
properties of finite gyromagnetic, separation constants for, (T), 22:24313
properties of finite-β, in toroidal devices, (T), 23:32427
properties of flowing argon, in channels with cooled walls in transverse magnetic fields, 25:9281
properties of fully ionized, statistical theory of emission, absorption, and conductivity of, 22:34631 (AD-662910)
properties of gas-particle, ionization, 21:9583
properties of helium afterglow, collisional processes in, (T), 23:14808
properties of helium and hydrogen, in high-pressure pulsed electric arcs, 21:31455
properties of helium arc, at 10 atm, (E/T), 24:40054
properties of helium in glow discharges, effects of vhf fields on, 22:46175
properties of helium positive column, in magnetic fields, (E), 25:22471
properties of helium, 2^3S level effects on, 21:27163
properties of helium, in high-pressure arcs, 21:44141 (ORNL-4150, pp 71-102)
properties of helium—potassium, temperature gradient, 24:19878
properties of hf-discharge, at electron cyclotron resonance, (E/T), 25:47517
properties of high-beta, research on, 24:47187(R) (NYO-3782-4)
properties of high-temperature uranium, (E), 23:36675
properties of high-voltage discharge, in magnetic fields, (E), 23:34406(R) (AD-682306)
properties of hydrogen and nitrogen, in low-pressure arc discharges in magnetic field, 21:29274
properties of hydrogen arc, current density and temperature, 25:14268
properties of hydrogen spark discharge, at small pd values, (E), 23:16794
properties of hydrogen, in conical Z pinches, (E), 23:51644
properties of hydrogen, in electromagnetic coaxial shock tubes, (E), 23:3479
properties of hydrogen, in high-current arcs, 22:5330
properties of hydrogen, in kiloampere discharges, (E), 21:23211 (AD-643197)
properties of induction discharge, at atmospheric pressures, (E/T), 24:26168
properties of inductively coupled argon, 22:7279
properties of inert gas—mercury mixtures in positive column discharges, 23:5426
properties of inhomogeneous anisotropic, geometrical optics approximation for electrodynamics of, (T), 23:20924
properties of inhomogeneous electron, dielectric permeability tensor for, 25:14291
properties of inhomogeneous, dielectric tensor for, (T), 25:36127 (UARAEE-65)
properties of interplanetary, 22:26429
properties of interplanetary and magnetospheric, (T), 24:39789
properties of interplanetary, (T), 22:45872
properties of interplanetary, from Vela 3 positive-ion data, July 1965 to June 1967, 24:47142
properties of interstellar and interplanetary, 22:15307
properties of ionospheric, 21:688 (N-66-22936)
properties of ionospheric, (T), 22:44017
properties of laser-produced cesium, refractive index, 23:48890 (N-69-30622)
properties of low-density hydrogen—helium, atomic processes in, 25:14302
properties of low-pressure discharge column in axial magnetic fields, (T), 21:40017
properties of low-temperature, nonequilibrium, 22:41609
properties of low-temperature, transport, 24:8048
properties of magnetically confined laser-produced, (T), 23:23142
properties of magnetized, rotational, (T), 23:10668
properties of magneto-, electromagnetic, (T), 21:11640
properties of magnetospheric, review of, (E/T), 25:58910
properties of Maxwellian and nonMaxwellian magneto-, effective parameters for, 22:44152
properties of microwave-excited argon, analytical and physical, (E), 25:56158
properties of microwave-produced, in magnetic fields, 22:39093
properties of microwave-produced, in toroidal quadrupole fields, (E), 23:34411 (ORNL-4401, pp 145-59)
properties of moving, in electric driven shock tubes, 21:44109
properties of neon positive column discharge, (E), 23:23116
properties of neon positive column discharges, (T), 23:23146
properties of nitrogen, in positive column discharges, 21:27174
properties of nonequilibrium cesium, from fundamental processes, (E/T), 24:1379
properties of nonequilibrium helium arc, model for, 24:28283
properties of ohmically heated, in Heliotron magnetic field, (E), 23:32399
properties of one-dimensional Vlasov, effect of external electric fields on, (T), 23:12861
properties of Penning discharge, (E), 24:49137
properties of plane condensers, in crossed electric and magnetic fields, (T), 25:27718
properties of positive column, in longitudinal magnetic fields, (E), 23:42277
properties of positive column, nonlinear asymptotic analysis of, 21:42060
properties of positive column, relaxation length of electron temperature, (T), 23:42309
properties of post-luminescence cesium, microscopic, (T), 24:26213
properties of pulsed thermonuclear facilities, range of, 24:49198
properties of rare gas discharge, dielectric, (E), 23:16800
properties of rare gas, in discharge columns, 21:27166
properties of rare gas, in low-pressure positive column discharges, 21:42067
properties of rare gas, in low-pressure positive column discharges, 21:42068
properties of rare gas, in low-voltage arcs, 22:34624(R) (AD-661073)
properties of rare gas, in medium-pressure positive column discharges, 23:6993
properties of relativistic rings of, (T), 23:23126 (IPP-1)
properties of repeated discharges in cylindrical Z-pinch, (E), 24:5162 (NP-18065)
properties of rf induction-heated, (T), 23:34427 (N-69-22638)
properties of rf, near lower hybrid resonance, (E), 23:42266
properties of rf, nonequilibrium, (E), 22:34699
properties of rf-generated, in static magnetic fields, review, (E/T), 22:52833
properties of rf-produced, (E), 22:31814
properties of rotating, 22:39100
properties of rotating cylindrical, at zero temperature gradient, pulsating, 21:42096
properties of rotating Slepian discharge, with Penning ion source, (E), 23:12864
properties of rotating, in magnetic mirror geometries, (E), 23:34412 (RISO-191)
properties of space, 21:11487 (N-66-19717)
properties of static, two-particle correlation theory for, 21:42082
properties of strongly nonideal, (T), 24:3371
properties of supercooled dense, (T), 24:26206
properties of thermal induction, undergoing radial conduction losses, (T), 24:24003
properties of thermionic, 22:13461
properties of theta pinch, in azimuthal magnetic fields, 22:29478(T) (NP-tr-1633)
properties of theta-pinch, with transverse magnetic fields, 22:46136 (IPP-1/81)
properties of thin-beta toroidal, (T), 23:16806 (CEA-CONF-1005)
properties of toroidal glow discharge, 21:42098
properties of toroidal screw pinch, in constant-pitch magnetic field, (E), 23:32394
properties of turbulent, theory of lf electromagnetic, (T), 23:42373
properties of two laser-produced interpenetrating lithium deuteride, (E), 24:12806

properties of warm anisotropic, resonance cone structure in, (T), 24:23981
properties of warm electron, equivalent dielectric tensor for, (T), 23:25345
properties of waveguide, equivalent circuit for cylindrical, 22:41607
properties of weakly ionized, in emitting surfaces, (T), 24:21791
properties of, (E), 22:24311
properties of, computer simulation of, 21:44054 (NASA-SP-153)
properties of, Debye approximation for avalanche-to-streamer transition, 25:17146 (JINR-P13-5504)
properties of, effect of distribution function on noise temperature of, (T), 23:42307
properties of, electromagnetic, 21:33390(R) (AD-631859)
properties of, hodographic method for electrodynamic, 22:24291
properties of, measurement objectives for characterization of, (E), 25:38403
properties of, pseudopotential of quasi-classical, (T), 22:44178
properties of, reflection coefficient for exponentially tapered electron density and fixed collision frequency, (T), 23:16811 (SC-R-68-3907)
properties of, research on, 21:9558(R) (AFCRL-66-752)
properties of, research on electromagnetic, 21:33393(R) (AD-642271)
properties of, review of, 22:48134
properties of, review of, 23:18617
properties of, statistical calculations for atomic, 21:20926
properties of, summaries of conference papers on fundamental, 22:7309
properties of, theoretical review of, 22:34574
properties of, thermal relaxation in one- and two-dimensional models, (T), 24:26198
prospects of controlled fusion, final report of IAEA panel on, 25:17218
proton beam interactions with arc discharge helium and hydrogen, energy losses in, (E), 22:39124
proton beam interactions with potassium, oscillations from, 22:13458
proton interactions with interplanetary, cosmic-, (T), 23:30368
proton reactions with argon hollow cathode discharge at 10 to 70 keV, energy loss from, 21:33394 (AECL-2669)
quenching by electronegative gases, effect of detachment processes on, 21:29242
radiation absorption (negative) in noncollective, cyclotron and gyromagnetic, (T), 22:4936
radiation amplification in, properties of short-wave, (T), 22:34694
radiation characteristics of antenna in, (E/T), 24:26170
radiation conditions for magnetized, causality principles for, 24:40080
radiation diffraction in cold, lossless, isotropic, plane-stratified, solution to half-space configurations and similarity principle for, (T), 22:36922
radiation emission and absorption in nonequilibrium, synchrotron, (T), 25:16692
radiation emission and absorption in relativistic, coherent synchrotron, (T), 24:32843
radiation emission and absorption of exploding tungsten wire in nitrogen at high pressure, 24:6545 (BMwF-FBK-69-35)
radiation emission and reabsorption by relativistic, synchrotron, (T), 22:23912(T) (NASA-TT-F-521)
radiation emission at electron cyclotron frequency from highly ionized, effects of microwave irradiation on, (E), 21:37481
radiation emission at electron cyclotron frequency in, anomalous rf, (E), 21:7224
radiation emission by electron—atom collisions in positive neon column, bremsstrahlung continuum, (E), 22:29486
radiation emission from axially symmetric, calculation of radial intensity distribution of, 22:41572
radiation emission from neon positive column, (T), 21:29288
radiation emission from nonequilibrium, effects of spatial dispersion on cyclotron, (E), 25:59097
radiation emission from solar, line splitting in, 21:577
radiation field of magneto-, Hamiltonian with relativistic effect for, 22:9314
radiation from beam—plasma system, microwave, (E), 25:47524
radiation from collisional hydrogen, bremsstrahlung, (T), 25:40646
radiation from dense deuterium, cooling in, (E), 24:10531
radiation from deuterium—tritium, synchrotron, (T), 24.10571 (MATT-658)
radiation from drifting magnetized, inhomogeneity effects on synchrotron, 24:51663
radiation from electric dipole in magneto-, 21:5295
radiation from electrically excited carbon dioxide—nitrogen and carbon dioxide—helium—nitrogen, spectra of infrared, 22:1229
radiation from electron-cyclotron hydrogen, cyclotron, (E), 21:2205 (TID-23318, pp 187-91)
radiation from heated, in regular regime, (T), 23:10673(T) (SC-T-68-1541)
radiation from helium discharge, absorption resonances at cyclotron harmonics in, (E), 22:1223
radiation from high-pressure, (T), 22:11442
radiation from highly relativistic, amplification of synchrotron, (T), 22:29138
radiation from homogeneous, bremsstrahlung, (T), 24:19890
radiation from hot-electron, measurement of synchrotron, 21:46300(R) (AD-641083)
radiation from isothermal hydrogen, at 40,000°K, 21:18717
radiation from isothermal layers of dense hydrogen, absolute intensity measurement of, 22:34678
radiation from magnetic-field-free electron-hole, gigahertz, 21:27142 (D-1-82-0608)
radiation from magnetically confined, intensity of x, 21:23209
radiation from magneto-, Cherenkov, 21:35168
radiation from magneto-, Cherenkov, 21:44102
radiation from magneto-, Cherenkov induction of Alfven, 21:44092
radiation from magneto-, theory of synchrotron, 21:18720
radiation from magneto-upper-hybrid resonance, 21:33420
radiation from Maxwell—Boltzmann, bremsstrahlung, (T) , 21:31426 (UCRL-50227)
radiation from nonlinearly excited, (T), 21:23185
radiation from partially ionized, anomalous bremsstrahlung, 21:15175
radiation from shock-heated, optically thin, (T), 23:32428
radiation from thermal bremsstrahlung in, x, (T), 21:7239
radiation from waves in isotropic homogeneous, bremsstrahlung, 23:1473
radiation from, polarization effects on relativistic electron, 23:3483
radiation from, properties of bremsstrahlung, (T), 21:33426
radiation in weakly inhomogeneous magnetic fields, spectral distribution of, (T), 25:56177
radiation intensity amplification in negative glow, of hollow-cathode discharge in magnetic field, (T), 23:1491
radiation intensity in axisymmetric dense, radial distribution of, (T), 25:59036
radiation interaction with, frequency shift and amplitude jump of electrostatic mode for, (T), 22:39127
radiation interaction with, nonlinear effects for induced resonance in, (T), 22:39127
radiation interactions with, quantum theory of emission—absorption properties in, (T), 23:42291
radiation lines from carbon and fluorine, at 10,000 to 100,000°K, (T), 22:52814
radiation loss in nonequilibrium, differential approximation for, (T), 23:42320
radiation losses from dense z-pinch, (E), 23:39467
radiation losses from dense z-pinch, (E), 24:51643
radiation losses from dense z-pinch, (E), 25:5092(T) (SC-T-70-4044)
radiation near electron cyclotron harmonic frequencies, distribution of, (T), 23:10669
radiation pattern from magnetic line source on conducting plane, angular anisotropy of EM- and P-mode, (T), 22:46152
radiation pressure on vacuum boundary of, (T), 23:16772
radiation processes in astrophysical, material coefficients of, (T), 23:51656
radiation processes in astrophysics, 23:39071(T) (AEC-tr-7074)
radiation processes in, incoherent, (T), 21:5265 (AD-637587)
radiation properties of jet in M87 radio galaxy, (E), 22:21834
radiation transfer in, 22:19986
radiation transfer in, 22:19986
radiation transfer in slab, solutions for, (T), 23:25482
radiation transmission in, properties of, (T), 23:5429
radiation transport equation for, 22:44112 (NP-17460)
radiation transport in nonuniform atomic, (T), 22:31821
radiation transport in, collective effects on polarized, (T), 25:36143
radiation transport processes in, (T), 21:16916
radiations and conduction losses in thermal induction, (T), 24:24004
radiations and heat conduction losses in thermal induction, (T), 24:26188 (AD-698330)
radiations at electroacoustic resonance frequencies, noise, (E), 23:39469
radiations during electron cyclotron heating, cutoff of cyclotron harmonic, (E), 23:16796
radiations from 34-GHz microwave discharge, harmonic, 23:7008
radiations from afterglow, sensitive microwave-gated radiometer for measuring, 25:40601
radiations from air, cross sections for bremsstrahlung, (E) , 23:27623
radiations from anisotropic hot electron, polarization of free—free bremsstrahlung, (E), 25:43357
radiations from anisotropic turbulent, electromagnetic, (T), 24:47243
radiations from anisotropic, approximations for free—free bremsstrahlung, (T), 24:35446(R) (COO-1695-27)
radiations from anisotropic, polarization of free—free bremsstrahlung, (E/T), 25:45493(R) (COO-1695-34)
radiations from argon and neon magneto-, microwave, 22:41608
radiations from argon pinch discharge, stimulated emission of, (E/T), 24:12798(T) (AEC-tr-7127)
radiations from argon, absorption and emission, 21:33430
radiations from argon, absorption and emission properties of, 22:34621 (AD-660576)
radiations from argon, at high temperatures and pressures, 21:20952
radiations from argon, in low-pressure torch discharges, 25:36124
radiations from axially magnetized column of, with immersed current source, (E), 24:6535
radiations from beam—plasma system, measurement of x, 25:52806
radiations from beam-generated, microwave, (E), 24:1397
radiations from bounded cold magneto-, synchrotron, (T) , 23:42294
radiations from bounded, instabilities from, (T), 22:3133
radiations from bounded, sheet model for, 24:15318
radiations from cesium, microwave, 21:33363 (MATT-Q-24, pp 1-195)
radiations from cesium, resonant, (E/T), 25:14264(R) (AD-711828)
radiations from cold, from electric and magnetic dipoles, 23:46392
radiations from cold, gyrosynchrotron, (T), 25:12537
radiations from cold, macroscopic quasi-linear theory of hf, (T), 23:23149
radiations from collisional, properties of, (T), 23:12927
radiations from collisionless shock tubes, wave scattering effects on, (T), 25:14314
radiations from column of, pulse-stimulated, (E/T), 22:13456
radiations from column, effect of oscillations on cyclotron, (E), 24:37458
radiations from compressible, ray-optical analysis of, (E/T), 22:13505
radiations from contracted argon column, at average pressure, 23:10638
radiations from cylindrical, dipolar modes of, 21:774
radiations from decaying, amplification of, 21:23194
radiations from dense decaying helium, amplification of vacuum uv, 25:5090
radiations from dense hot theta-pinch, bremsstrahlung, 22:1187 (LA-3770, Paper D5)
radiations from dense xenon, energy loss calculations for, 24:21792
radiations from dense, in electric arcs, (E), 25:49889 (AD-708161)
radiations from dense, theory for bremsstrahlung, 21:18663 (ARL-66-0239)
radiations from density inhomogeneities in, supraluminous, (T), 23:44422
radiations from discharge, electron cyclotron frequency, (E), 25:17161
radiations from discharges in inhomogeneous magnetic fields, microwave, (E), 23:51636
radiations from ECR discharge, enhanced cyclotron, (E), 22:34659 (TID-24491, pp 177-82)
radiations from electric dipole on column of anisotropic, (T), 23:30551
radiations from electrodeless discharge, cyclotron harmonic resonances in, 21:40018
radiations from electrodeless helium discharge, cyclotron harmonic resonances in, 21:42089
radiations from electron beam-produced helium, electron cyclotron, 21:15126 (IPP-2/53)
radiations from electron beam-produced, electron cyclotron harmonics of, 21:3853
radiations from electron cyclotron resonance, velocity distribution of free—free bremsstrahlung, (E), 23:18623 (CONF-680113-(Vol.1), pp 457-83)
radiations from electron cyclotron resonance-heated, bremsstrahlung, (E/T), 24:8490(R) (COO-1695-25)
radiations from electron cyclotron resonance-heated, free—free bremsstrahlung, (T), 25:11910(R) (COO-1695-32)
radiations from electron motion in magnetized, (T), 23:48909
radiations from electron—ion collisions in, dc noise, (T), 25:14303
radiations from electron-beam-irradiated, calculation of visible, 21:20945 (ORNL-TM-1797)
radiations from electron-cyclotron-resonance-heated, bremsstrahlung, (E/T), 25:38484(R) (COO-1695-33)
radiations from exploding ionized gaseous filament, effects of plasma frequency on, (E), 24:15304
radiations from explosive-produced, in vacuum, (E), 24:1403
radiations from extreme relativistic hydrogen, bremsstrahlung, (T), 24:10552
radiations from fast z-pinch, time—space resolved spectroscopic measurements of, (E), 25:56150 (LGI-70/14/E)
radiations from finite thickness hydrogen, spectra of, 22:52804
radiations from finite-volume nonequilibrium, (T), 24:24006
radiations from fully ionized in infrared, bremsstrahlung, 22:44165
radiations from fully ionized, bremsstrahlung, (T), 23:12860
radiations from fully ionized, infrared bremsstrahlung, 22:39060 (CONF-670928-5)
radiations from fully ionized, photon momentum distribution in, 23:8601
radiations from fully ionized, Planck's law and dielectric constant for, 23:8602
radiations from growing oscillations in, 21:13616
radiations from gyrating electrons in magnetized, synchrotron, (T), 23:20918
radiations from helium negative glow, microwave, (E), 25:17160
radiations from helium, effect of optical orientation of helium-4 atoms on, 23:32411
radiations from heterogeneous, electromagnetic, (T), 25:11890
radiations from high-temperature uranium, (E), 23:36675
radiations from high-temperature, flux of fast neutral, (T) , 25:30514 (JAERI-Memo-4243)
radiations from homogeneous anisotropic, conditions for, 22:52785
radiations from homogeneous magnetized, (T), 25:19696
radiations from hot electron, measurement of synchrotron, 21:9609
radiations from hot electron, photon transport in, (T), 25:17165 (AD-713485)
radiations from hot electron, spontaneous rf, 21:39972 (TID-23971, pp 123-212)
radiations from hot electron, synchrotron, (E/T), 24:28245
radiations from hot electrons, synchrotron, 22:44166
radiations from hot-cathode arc-discharge, shf, 22:3067
radiations from hot-electron, scattering and energy loss rates in, (E/T), 23:34377 (ORNL-4401, pp 79-97)

radiations from hydrogen, effects on atomic state density and electron distribution function, (T), 25:14316
radiations from impure hydrogen, energy losses in, (T), 24:6537 (SC-RR-69-758)
radiations from inhomogeneous spherical, thermal, (T), 24:37477
radiations from isotropic and uniaxial, electric dipole, (T), 23:27634
radiations from isotropic, Cherenkov, 21:29282
radiations from isotropic, cyclotron and synchrotron, (T), 25:27706
radiations from laser-beam-irradiated, bremsstrahlung, 25:14279
radiations from laser-produced, collisional effects on, (T), 24:17929
radiations from laser-produced, far-infrared, 25:19679
radiations from laser-produced, stimulated, (E), 24:32824
radiations from layered, spectra of electron-beam induced, 21:3854
radiations from low-pressure helium and neon, at cutoff frequency, 21:31431
radiations from low-temperature argon, continuous, (E), 24:21784
radiations from magnetized Maxwellian, microwave, (T), 24:47253
radiations from magnetized, at cyclotron frequencies, 24:37443
radiations from magneto-, (E/T), 22:31805 (LA-DC-9540)
radiations from magneto-, absorption and emission of, 21:7268
radiations from magneto-, angular spectra of ion cyclotron harmonic, 22:3070
radiations from magneto-, conditions for, (T), 21:33392 (AD-641661)
radiations from magneto-, cyclotron and Cherenkov mechanisms for exciting, (T), 23:14800
radiations from magneto-, dispersion equation coefficients for synchrotron, 25:17228
radiations from magneto-, echo, 21:42102
radiations from magneto-, effect of electron collisions on Cherenkov, (T), 24:35440
radiations from magneto-, gyro-synchrotron emission and absorption, (T), 23:27630 (N-69-18769)
radiations from magneto-, gyrosynchrotron, 25:30515 (N-70-41892)
radiations from magneto-, intensity of cyclotron, 21:15146
radiations from magneto-, kinetic equations for, 21:18719
radiations from magneto-, pulse stimulation near second harmonic of gyrofrequency, 21:2241
radiations from mercury discharge, at high densities, (E), 23:18629(T) (UCRL-Trans-10325)
radiations from microwave excited at cyclotron resonance, 21:9603
radiations from microwave-heated magnetic mirror-confined, (E), 22:26387
radiations from microwave-heated, microwave, 21:29227 (TID-23827, pp 219-21)
radiations from mirror-confined, bremsstrahlung, (E/T), 25:11909(R) (COO-1695-31)
radiations from nitrogen and oxygen, temperature dependence on continuum, 21:751
radiations from nitrogen, bremsstrahlung and recombination, (E), 23:16803
radiations from nitrogen, continuum, 24:15303
radiations from nonequilibrium, (T), 21:33421
radiations from nonequilibrium, energy losses in, (T), 23:18659
radiations from nonequilibrium, in magnetic traps, (T), 25:14288
radiations from nonisothermal hydrogen, conduction and convection in, (T), 24:5171
radiations from nonisothermal hydrogen, effects of surface emissivity on, (T), 24:28282
radiations from nonisothermal magneto-, lf waves, 21:15147
radiations from nonrelativistic, with independent electrons, 23:3470 (UCRL-50496)
radiations from oscillating electrons in, electromagnetic, (E/T), 23:20899
radiations from oxygen, measurements of bremsstrahlung and recombination continuum, 21:33433
radiations from partially ionized, at cyclotron frequencies, 21:2193
radiations from partially ionized, bremsstrahlung, (T), 22:34673
radiations from partially ionized, optical frequency, 21:5311
radiations from periodically stratified, transition, (T), 24:47245
radiations from PIG discharge, electron cyclotron, 24:17902
radiations from PIG discharge, self-absorption resonances at electron cyclotron harmonics, 22:3042 (IPP-3/60)
radiations from pinch discharge, stimulated emission of, 21:15138
radiations from planar afterglow with reflecting walls, decay of resonance, 23:7011
radiations from positive column near electron cyclotron harmonics, single-particle, (E/T), 25:52802
radiations from positive column, resonances in, 21:2244
radiations from pulse discharge, device for polarization measurements from, 22:5370
radiations from pulse discharge, time characteristics of, 22:5333
radiations from Q devices, near electron cyclotron harmonics, (E), 22:22146 (NP-17389)
radiations from quantum, emission of electron—electron bremsstrahlung, (T), 22:1202
radiations from quasistationary, microwave, (E), 21:16909
radiations from rare gas positive column, production from electron collisions, (T), 23:23139
radiations from rare gas, cross sections for bremsstrahlung, (E), 23:27624
radiations from reflex discharge, at electron cyclotron harmonics, (E), 25:49891
radiations from reflex discharges in magnetic fields, microwave, (E), 24:49138
radiations from relativistic cosmic, (T), 24:23698
radiations from relativistic electrons in, enhanced bremsstrahlung, (T), 23:48912
radiations from relativistic, dielectric permeability tensor calculations for synchrotron, (T), 23:25347
radiations from relativistic, theory for bremsstrahlung, 25:27687 (NP-18758)
radiations from rf-produced helium, intensity transitions in, (E), 23:39466
radiations from ring source around compressible column of, 24:49168
radiations from shock-heated argon, (E/T), 21:33389
radiations from shock-heated argon, effects on ionization, (E/T), 23:12789
radiations from shock-heated krypton, vacuum-ultraviolet, (E), 25:47522
radiations from singly ionized oxygen, (E), 22:5119
radiations from slab, synchrotron, (T), 24:35439
radiations from slabs of magneto-, dispersion relations for, (T), 22:13482
radiations from sodium-seeded, electron—ion recombination data from, 23:10635
radiations from sources immersed in partially ionized, (T), 22:36914 (N-68-22708)
radiations from sphere in compressible, (T), 21:37472
radiations from spherical, analysis of microwave, (T), 21:29251
radiations from spiralling electrons in, magneto-ionic mode, (T), 23:5403
radiations from steady-state coaxial layers of, bremsstrahlung, (T), 24:49171
radiations from stream-plasma system in kinetic regime, instabilities from, (T), 21:27215
radiations from strongly magnetized, nonrelativistic electron bremsstrahlung, (T), 24:47249
radiations from Table Top IV confined, properties of, 21:46306 (UCRL-50002-67, pp 7-58)
radiations from tangential velocity discontinuities in, hydromagnetic wave, (T), 25:47540
radiations from test particles in, (T), 22:9344
radiations from thermally excited cesium, resonance (E/T), 24:5160 (AD-691470)
radiations from thermally magnetized, nonlinear harmonic generation by microwaves, (E), 25:59013 (CEA-CONF-1835)
radiations from theta pinch, at 100 to 200 A, (E), 25:56149 (IPP-1/108)
radiations from theta pinch, bremsstrahlung, 23:51624 (JUL-578-PP)
radiations from theta-pinch, enhanced far-ir, (E), 25:9448
radiations from theta-pinch, growth of azimuthal current and microwave, (E), 24:10526(T) (AEC-tr-7112)
radiations from theta-pinch, in 10- to 200-A range, (E), 25:33258
radiations from theta-pinch, intensities of, 21:11636(T) (NP-tr-1489)
radiations from theta-pinch, microwave, (E), 23:36671 (NP-17943)
radiations from theta-pinch, microwave, (E), 25:36122
radiations from theta-pinch, near plasma frequency, (E/T), 23:16789
radiations from theta-pinch, x, 22:46167
radiations from thetatron, resonance, (T), 22:1175 (IPP-1/65)
radiations from Tokamak device, microwave, 22:34693
radiations from Tokamak-confined, synchrotron, (T), 25:3095
radiations from turbulent, bremsstrahlung, (T), 22:9307 (TID-24203, pp 53-71)
radiations from turbulent, noise, 21:44094
radiations from turbulent, theory for bremsstrahlung, 25:27704 (NP-18759)
radiations from two-stream instabilities in, (T), 24:23982
radiations from unstable waves in electron-beam excited, (E), 25:30510
radiations from upper hybrid resonance electrons, (E/T), 23:14739(R) (LA-4075)
radiations from uranium, optical, (E), 24:6534
radiations from vacuum boundaries of, transition, 24:42684
radiations from warm anisotropic, spectra of Cherenkov, (E/T), 23:25310
radiations from warm collisionless slab, cyclotron harmonic, (T), 24:21795
radiations from warm magneto-, cyclotron harmonic dispersion relations for, 21:15166
radiations from warm, near electron cyclotron frequency, microwave, 21:29204 (TID-23827, pp 71-134)
radiations from Z-pinch, vacuum uv, 23:6970 (IPP-1/86)
radiations from, analysis of microwave spectra, (E), 24:37456
radiations from, at 6000 to 12000°K, 22:44125
radiations from, atomic screening parameters for, (T), 24:46998 (NP-18278)
radiations from, bremsstrahlung and scattering at harmonics of plasma frequency, 22:44164
radiations from, calculation of bremsstrahlung near plasma frequency, (T), 23:27641
radiations from, collective, (T), 24:12825
radiations from, correlation function for bremsstrahlung, 22:44134
radiations from, effect of collisions on noise spectra, 24:51665
radiations from, effects of collisions on bremsstrahlung, 23:1474
radiations from, effects on ionization instabilities in, (T), 23:20943
radiations from, electron and ion temperature effects on, 22:3054
radiations from, electron beam-induced, (E), 21:7212 (TID-23459, pp 65-77)
radiations from, electron bremsstrahlung in field of argon and helium atoms, (E/T), 25:52810
radiations from, electron cyclotron harmonic, (E), 22:19997
radiations from, electron distribution function from bremsstrahlung, (T), 23:5390
radiations from, electron temperature determination from microwave, 21:20929
radiations from, electron temperature determination from shf, 25:11877
radiations from, electron temperature determination from continuum x, (E/T), 23:12764 (NRL-6738)
radiations from, electron velocity determination from microwave, 21:7213 (TID-23459, pp 59-64)
radiations from, free—free bremsstrahlung, (E), 22:26388
radiations from, interference filters for analyzing, 21:5257
radiations from, kinetics of, (T), 22:3116
radiations from, linear response analysis of electromagnetic, 24:21807
radiations from, magnetic field corrections to bremsstrahlung spectra, (T), 24:3358
radiations from, measurement using interference filters, 24:49121
radiations from, microwave and rf, 21:11624(R) (N-66-19653)
radiations from, microwave harmonic generation under external magnetic field, (T), 21:29234
radiations from, near electron gyrofrequency harmonics, 21:29219 (IPP-6/55)
radiations from, noise suppression techniques for macroparticle models, 25:9457 (UCRL-72604)
radiations from, nonuniform electric field and static magnetic field effects on cyclotron resonance, (T), 21:39972 (TID-23971, pp 123-212)
radiations from, photomultiplier radiometer for detection of r-f modulated, 22:44140
radiations from, pressure anisotropy from bremsstrahlung, 22:11445
radiations from, production mechanism for electron cyclotron echoes, (T), 21:3850
radiations from, properties of single-pulse induced, 21:760 (AD-634287)
radiations from, properties of, (T), 21:9598
radiations from, pulse stimulated at gyrofrequency harmonics, 21:762 (AD-635155)
radiations from, pulse stimulation at electron gyrofrequency, 21:27179
radiations from, quantum theory of resonance, 23:10432 (ORNL-4316, pp 161-229)
radiations from, quasilinear theory of spontaneous, 23:39487
radiations from, readsorption of synchrotron, 23:3488
radiations from, relativistic bremsstrahlung, (T), 21:5268 (N-66-32129)
radiations from, relativistic correction to bremsstrahlung, 22:17678
radiations from, relativistic corrections to bremsstrahlung, (T), 23:30554
radiations from, relativistic kinetic theory for, 24:10511
radiations from, research on, 21:27106 (CONF-660452-1)
radiations from, resonance observation from microwaves, 21:42070
radiations from, resonance, (T), 21:5270 (N-66-32304)
radiations from, resonance, (T), 21:5269 (N-66-32303)
radiations from, scintillation detection of x, 21:7258
radiations from, semiclassical calculations of bremsstrahlung power density, 25:59045
radiations from, summaries of conference papers on, 22:7312
radiations from, synchrotron, (T), 23:27629 (N-69-10866)
radiations from, theory of cyclotron harmonic, 22:19991
radiations from, time-dependent behavior of nonequilibrium, 22:50166
radiations from, transport theory for, 22:1203
radiations from, two-dimensional rod model for noise, 21:44058 (NASA-SP-153, pp 57-60)
radiations from, unified theory for compressible lossy, (T), 23:42315
radiations from, use for laser pumping, 23:7019
radiations from, use of correlation radiography for analyzing, 23:1404 (AD-670844)
radiations from, Vlasov solutions for electric fields and BGK collision terms, (T), 23:42300
radiations from, wave transformation effects on noise, 21:29265
radiations in anisotropic electron, polarized in strong magnetic fields, (T), 24:15319
radiations near electron frequency in Maxwellian, temperature of enhanced, (E), 24:3342
radiative cooling of dense deuterium, calculation of, 23:51655
radiative cooling of low-density, (T), 23:48901
radiative decay of tangential surface plasmons in silver, (T), 22:52824
radiative processes in, infinities in Prigogine statistical theory of, 23:44440
radiative temperature of bounded nonthermal, (E), 25:43354
radiative temperature of bounded nonthermal, (T), 25:43371
radiative transfer in astrophysical, (T), 25:32967
radiative transfer in homogeneous, generalized Newton—Raphson method for excitation and, 25:59041
radiative transfer in magnetoactive, equation of, (T), 23:20562
radiative transfer in nonuniform magnetoactive, equation for, (T), 25:49630
radiative transfer in, Zheleznyakov's equation of, (T), 24:14998
radio emission from turbulent, (T), 25:7016
radio propagation in, polarized, (T), 23:51656

radio-wave propagation in stratified ionosphere, reciprocity theorem for magnetoionic modes, (T), 25:24994
radio-wave refraction coefficient for ionospheric, (T), 24:12731
radioimmunoassay for luteinizing hormone, 23:9858
radioimmunoassay of human growth hormone in, 23:50256
reaction kinetic studies of argon—cesium, 23:1230 (AD-670469)
reactions in current-carrying admixtures of, synthesis of differently charged nuclei in, 25:3140
reactions with metal surfaces, secondary electron spectra from, (T), 22:7150
reactions with powdered niobium carbide, effects of dispersiveness and oxygen on compositions from, 23:12433
reactions with powdered zirconium carbide, effects of dispersiveness and oxygen on compositions from, 23:12433
recombination coefficient in dense argon, 22:41548
recombination coefficients in highly ionized cesium and potassium, (E), 22:39128
recombination in coronal, effects of electron and radiation density on dielectronic, (T), 23:44116
recombination in dense weakly ionized cesium, mechanism and coefficients for, (T), 24:35245
recombination of primeval, (T), 22:41233
refractive index of argon, at 9500 to 1900°K, measured, 21:44105
refractive index of argon, measurement of, 21:23159(R) (AD-643077)
reionization of decaying hydrogenous, by large-amplitude Alfven waves, (E), 21:2216
relaxation and anisotropy in Isar-I megajoule theta pinch device, 22:1176 (IPP-1/67)
relaxation in laser-irradiated lithium deuteride, (E/T), 25:1169
relaxation in nonequilibrium mixture of argon and cesium, unsteady-state, (E), 25:33312
relaxation of anisotropic, with dynamic shielding, 23:1438
relaxation of magnetized, temperature, (T), 24:51676
relaxation of temperature anisotropy in collisionless, (T), 25:11893
relaxation of thermal boundary layers in highly ionized, temperature, (T), 24:5173
relaxation processes and amplification of radiation in dense, 22:50169
relaxation processes in dense argon, asymptotic thermochemical, 25:19684
relaxation processes in electrodynamic, (T), 24:28290
relaxation processes in electron beam—plasma system, (E), 25:27700
relaxation processes in magnetoactive, quasi-linear approximation for collisional, 25:59007
relaxation time calculation for electron, (T), 21:18696
relaxation times in totally ionized, (T), 24:39741(T) (LA-4460-TR)
research, 21:9610
research, 21:13523(R) (ORNL-4063)
research at Cekmece Nuclear Research Center, July—Dec. 1967, 23:35544(R) (CNAEM-48)
research at Commissariat a l'Energie Atomique, 25:52765 (A/CONF.49/P-813)
research at Culham Lab. analog computer calculations in, 24:37502
research at Fontenay-aux-Roses, 1967, (E/T), 23:46451(R) (EUR-CEA-FC-470)
research at Fontenay-Aux-Roses, 1969, 25:11854(R) (EUR-CEA-FC-542(Pt.1))
research at Fontenay-aux-Roses, Jan. 1, 1968—March 31, 1969, (E/T), 23:46452(R) (EUR-CEA-FC-518)
research at Garching, 1965, 22:7256(R) (NP-16754)
research at Garching, 1968, 25:5066(R) (NP-18495)
research at Grenoble, April 1969—February 1970, 25:11855(R) (EUR-CEA-FC-542(Pt.2))
research at Inst. of Nuclear Research, Warsaw, 1968, 23:51857(R) (INR-1100)
research at Inst. of Nuclear Research, Warsaw, 1969, 25:2497(R) (INR-1180)
research at Institut fuer Plasmaphysic, 1966, 22:5302(R) (JUL-494-PP)
research at Institut fuer Plasmaphysik, 1969, 25:17117(R) (NP-18496)
research at Institut fuer Plasmaphysik, Garching, 1966, 23:36635(R) (NP-17598)
research at Institut fuer Plasmaphysik, Garching, 1967, 23:36636(R) (NP-17732)
research at Institute fuer Plasmaphysik, Garching 1967, (E/T), 23:36645 (JUL-567-PP)
research at Institute of Nuclear Research at Swierk, 22:52722
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at Juelich Nuclear Research Center, 1969, 25:15964(R) (NP-18602)
research at Juelich Nuclear Research Institute, 23:3433(T) (NP-tr-1699)
research at Juelich, 1968, 24:27470(R) (NP-18083)
research at Kharkov Physico-Technical Institute, 25:52770
research at Laboratoire de Researches en physics of plasmas, 23:34364 (CONF-680113-(Vol.4), pp 1047-75)
research at LASL during Nov. 1969—Oct. 1970, 25:30450(R) (LA-4585)
research at Lawrence Radiation Lab., Nov. 1969 to June 1970, (E/T), 25:17351(R) (UCRL-20120)
research at Lawrence Radiation Laboratory, Nov. 1968 to April 1969, 23:51868(R) (UCRL-18877)
research at LRL May to October 1969, (E/T), 24:37662(R) (UCRL-19415)
research at LRL, July 1969-June 1970, 25:17118(R) (UCRL-50002-70)
research at ORNL, 22:19927 (ORNL-TM-2146)
research at ORNL, Jan.—Dec. 1970, 25:45443(R) (ORNL-4688)
research at Physico-Technical Institute in Sukhumi, 1968-69, 25:38323 (NP-18901)
research at Poland Inst. of Nuclear Research, 22:9270 (INR-P-846/XVIII/PP)
research at Saha Inst., summary of, 24:22145(R) (NP-18141)
research at Sydney, 23:18573(R) (NP-17775)
research at Sydney Univ, 25:14231(R) (NP-18663)
research at Sydney Univ., Australia, 23:51588(R) (NP-17634)
research at Sydney Univ., Australia, 25:47494(R) (NP-18963)
research at Sydney Univ., Jan.-June 1970, 24:42640(R) (NP-18360)
research at Sydney University, Australia, 23:48887(R) (NP-18027)
research at Sydney University, July—December 1969, 24:23940(R) (NP-18193)
research at Sydney, Australia, Jan.-June, 1967, 21:44015(R) (NP-17048)
research at UCRL July 1967—June 1968, 23:3434(R) (UCRL-50002-68)
research at UCRL, Livermore, July 1968—June 1969, 24:21752(R) (UCRL-50002-69)
research at UKAEA, 25:4088(R) (NP-18528)
research at UKAEA, 1968—1969, 24:38482(R) (NP-18112)
research at Wills Plasma Physics Department, Jan.—June 1969, 23:44377(R) (NP-17989)
research at Wills Plasma Physics Dept., Sydney Univ, 21:18669(R) (NP-16637)
research at Wills Plasma Physics Dept., Sydney Univ., Jan.-June 1968, 22:50133(R) (NP-17625)
research in Federal Republic of Germany, 25:52763 (A/CONF.49/P-377)
research in Helios Q device, Sept. 1970, 25:9398(R) (ORO-3895-15)
research in Italy 1966-1967, 23:20878
research in Italy, 1968—69, 24:40032 (UPee-70/2)
research in magnetic mirror machines, report of Ad Hoc Panel on, 22:26353 (TID-24254)
research in Soviet Union, 23:5372
research in Ukraine, 1957 to 1968, 24:28328(T) (JPRS-49859)
research in United Kingdom, 21:2826 (NP-16347)
research in United Kingdom, review of, 25:52845 (A/CONF.49/P-488)
research in US, review of, 25:38490 (A/CONF.49/P-836)
research in USSR, 25:52764 (A/CONF.49/P-441)
research in USSR, 22:1130
research in USSR, review of, 25:33314(T) (AEC-tr-7185)
research on, 21:13521 (AGARD-CP-8(Vol.2))
research on, 21:13520 (AGARD-CP-8(Vol.1))
research on, 21:13524(T) (AEC-tr-6675)
research on, 21:15085
research on, 21:20909(R) (MATT-Q-23)
research on, 21:27108(T) (NASA-TT-F-449)
research on, 21:27107(R) (TID-23760)
research on, 21:29193
research on, 21:31383(T) (AEC-tr-6672)
research on, 21:31384
research on, 21:33364(R) (SU-SEL-67-020)
research on, 21:33361(R) (MATT-Q-24)
research on, 21:44016(R) (ORNL-4150)
research on, 22:9273(R) (N-67-22920)
research on, 22:19924(R) (NP-17332)
research on, 22:22143
research on, 22:31781
research on, 23:27600(R) (MATT-Q-26)
research on, 22:5303(R) (NP-17128)
research on, 25:47515(R) (UCSD-34-P-85-13)
research on atmospheric, (E), 24:51488(R) (AD-706073)
research on controlled fusion, review of, 24:40122
research on controlled fusion, review of, 25:17217
research on controlled nuclear fusion, 23:34468
research on dense, 21:7209 (BMwF-FBK-66-27)
research on dense, (E/T), 25:43381 (LGI-68/16)
research on high-temperature, review of, 22:15525
research on laboratory and interplanetary, conference on, 22:5305
research on Mark II Torus experiment, (E), 23:14741(R) (NYO-3863-11)
research on Q device technology, review of, 23:34457(R) (TID-25120)
research on space, 23:25105
research on thermonuclear, relation to accelerators, 21:16897 (COO-1233-44)
research on, (E/T), 21:46302 (UCRL-50002-67, pp 147-68)
research on, (E/T), 24:5181(R) (COO-1726-39)
research on, (E/T), 23:8568 (ORNL-TM-2337)
research on, 1967 summary of French, 23:4460 (NP-17597, pp 7-39)
research on, astrophysical, 23:25069 (AD-677314)
research on, conference on, 21:29192
research on, design of electromagnetic valves for use in, 25:48690 (IPPJ-DT-17)
research on, documentation of fusion technology, 23:23066 (IPP-4/56)
research on, Princeton Univ, 23:42253(R) (NYO-3927-5)
research on, review of, 25:19730
research on, review of AEC, 23:17316
research on, similarity rules for, 25:14354
research on, space experiments for, 24:23942
research on, theoretical, 23:27627 (MATT-Q-26, pp 143-206)
research program and progress, 21:12098
research program and progress at Saha Institute, Calcutta, 21:27995(R) (NP-16755)
research programs at Juelich on, 21:14127(R) (NP-16420)
research progress and prospects for controlled fusion, 24:8487
research progress on controlled fusion, summary of, 25:30600 (WASH-1172)
research prospects of, Japanese committee report on, 25:40685 (JAERI-13486)
research review at Institute of Nuclear Research, Swierk, Poland, 24:17870(T) (AEC-tr-6931/7)
research review on, 24:8430
research review on controlled thermonuclear, 23:42345 (CONF-670846-, pp 36-57)
research state of the art, midyear, 1969, 24:26142 (NP-17949)
research status in U. S., Aug. 1968 conference report on, 23:6967 (TID-24804)
research summary on thermonuclear, 24:35478
research, Soviet papers presented at Culham conference on, 9/65, 21:7175(T) (AEC-tr-6760)
resistive loading near lower hybrid resonance, deuterium and hydrogen, (E), 25:22472
resonance rectification effects in magneto-, (E), 22:1215
resonance-rectification effects in warm magneto-, (E), 22:7292
resonances in aluminum, study of optically excited, (E), 22:41621 (DESY-68/27)
resonances in bounded magneto-, (E/T), 21:37479
resonances in ionospheric magneto-, 21:790
resonances in magnetized cylindrical, ion—ion, (T), 24:6562
resonances in positive column, natural mode, (T), 21:3851
resonances in positive column, near electron cyclotron frequencies, 21:2244
resonances in radial magnetic field confined, (T), 21:16865
resonances in self-maintained, ionic modulation of Tonks—Dattner, (E), 22:50155
resonances in weakly ionized, generalized electron cyclotron, (T), 22:50154
resonances in, higher-order cyclotron harmonic, (E), 22:41476
resonances in, nonlinearity and parametric, (T), 21:46357
review for teaching purposes, 25:5100
review of controlled thermonuclear research, 25:49860 (UCRL-73158)
rotation in Puffatron device, 24:12891(R) (RISO-M-961)
rotation of hot, energy measurements in, (E), 25:47523
rotation of toroidal-confined, from resistive diffusion, (T), 25:14235
rotation of, effects of inertial forces on current excitation in, (T), 23:14804
sheath formation near conducting walls, (T), 25:52817
shielding conditions in external electric fields, (T), 24:21797
shock formation and structure in colliding, collisionless electrostatic, (E/T), 25:9437
shock formation in Q devices, (E), 22:19993
shock formation in toroidal-confined, from resistive diffusion, (T), 25:14235
shock front production by dense focused, plane stable, 24:17950
shock fronts in, structure of collisionless, (E), 23:32392
shock generation in counterstreaming, simulation of turbulent collisionless electrostatic, (T), 24:35460
shock heating, laminar theory of perpendicular, (T), 25:40655 (NYO-1480-170)
shock jump conditions for anisotropic, (T), 23:12909
shock phenomena in, equipment for studying, 21:17909 (IPP-3/43)
shock production in alkali metal, Landau damping effects on, 21:33419
shock production in laser-produced lithium deuteride, electrostatic, 21:18753
shock profile in, unified, (T), 22:9337
shock propagation and structure in magnetized, collisionless, (E), 23:36669 (IAE-1646)
shock propagation in high beta, destruction of, 22:9302 (CLM-R-74)
shock propagation in, with anomalous friction, 22:9303 (IPP-1/72)
shock relations for interplanetary, (T), 23:25096
shock structure and equilibrium in toroidal devices, (T), 25:38468 (CONF-710607-75)
shock structure in argon, hydromagnetic, (T), 22:13504
shock structure in argon, nonequilibrium, 21:37439 (AD-650828)
shock structure in argon, nonequilibrium, (T), 22:13494
shock structure in argon—helium mixtures of, 21:42087
shock structure in collisionless hydrogen, 21:33462
shock structure in collisionless, properties of, (T), 21:33434
shock structure in Fermi, theory for, 24:45246
shock structure in high-β, turbulent, (T), 25:7274
shock structure in high-temperature, effects of inelastic collisions on transport properties of, (T), 23:39474
shock structure in hydrogen, 21:42090
shock structure in laser-produced, 21:40034
shock structure in magnetized, dispersion effects on, 21:33447
shock structure in magneto-, magnetically-driven, (T), 21:46331 (LA-3674)
shock structure in partially ionized, electron temperature from, 21:39994
shock structure in rarefied, theory of, 22:5372
shock structure in, oblique collisionless, (E), 22:9306(R) (ORO-3647-1)
shock structure in, quasi-stationary magnetohydrodynamic, (E), 22:29480(T) (NP-tr-1643)
shock wave decay in, properties of MHD, (T), 22:9351
shock wave destruction in rarefied, magnetic-sound, 21:27159
shock wave evolution in, turbulent electrostatic, (E), 25:59020
shock wave fine structure in collisionless magnetized, (E), 25:38436

shock wave formation and propagation in, multidimensional magnetohydrodynamic calculations for, 25:56192
shock wave formation in collisionless, magnetic-piston, (E), 25:9452
shock wave formation in finite-temperature, collisionless, (T), 25:33280
shock wave formation in finite-temperature, collisionless, (T), 24:47219 (NYO-3782-4, App.4)
shock wave formation in MHD shock tubes, single-fluid model for, (T), 23:12849
shock wave formation in, collisionless magnetohydrodynamic, (T), 23:36688
shock wave in current-carrying, electromagnetic, 25:52805
shock wave interaction with stationary magnetic field in argon, (E), 21:11621 (IPP-3/45)
shock wave interactions in magnetic fields, convergence of, (T), 23:12925
shock wave interactions in magnetized, collisionless, (E), 24:40066
shock wave interactions with air and argon, ion density profiles in, 22:1221
shock wave interactions with air and argon, ionization relaxation times in, (E), 23:30544
shock wave interactions with air and argon, structure in, (E), 22:22159
shock wave interactions with air, electron distributions and collisions in, 22:1197(T) (AD-653513)
shock wave interactions with air, velocity profiles behind, (T), 22:26428
shock wave interactions with argon, electrophysical properties of, 22:5331
shock wave interactions with argon, ionization and nonequilibrium radiations from, (T), 22:24356
shock wave interactions with argon, ionization properties of, (T), 22:50197
shock wave interactions with argon, ionization rates and collision cross sections for, (E), 22:52777
shock wave interactions with argon, precursors ahead of, (E), 23:32406
shock wave interactions with argon, precursors ahead of, (E), 23:32405
shock wave interactions with argon, properties of ionizing, (T), 24:26195
shock wave interactions with argon, relaxation phenomena, 21:15128 (N-66-36073)
shock wave interactions with argon, structure in, (T), 23:25363
shock wave interactions with argon—nitrogen, radiation processes from nitrogen, 22:41610
shock wave interactions with cesium, thermodynamics of, 21:5306
shock wave interactions with collisionless, instabilities from, (T), 23:12922
shock wave interactions with deuterium and hydrogen, electric field measurement in front of, 21:44118 (NP-17051)
shock wave interactions with helium, ionization in, (T), 23:42301
shock wave interactions with helium, precursor vacuum uv radiation from, (E), 23:32407
shock wave interactions with hydrogen, Chapman—Jouguet solutions for, (T), 23:42329
shock wave interactions with isothermal hydrogen—helium, equilibrium radiations from, 22:34709
shock wave interactions with magnetic fields, atomic and electron densities in, (E/T), 24:8455
shock wave interactions with magnetized, electron temperatures from, 22:3013
shock wave interactions with magneto-, anomalous resistivity from drift waves in, (T), 23:39522
shock wave interactions with magneto-, structure of, 21:23128
shock wave interactions with nonequilibrium, electron density and temperature in, 22:9293
shock wave interactions with optically thin, effects on radiation on, (T), 23:32428
shock wave interactions with plasmoids, properties of, 21:3879
shock wave interactions with rare gases, radiations from, (E), 22:26430
shock wave interactions with transverse magnetic fields, (T), 24:28291
shock wave interactions with transverse magnetic fields, field structure in, (E), 24:26176
shock wave interactions with turbulent, model for, 21:18687
shock wave interactions with, ballistic wake of turbulence in, (T), 23:23129
shock wave interactions with, curvature of magnetic field lines behind, (T), 23:20917
shock wave interactions with, damping in, (T), 23:12934
shock wave interactions with, electric conductivity in, (E), 23:16799
shock wave interactions with, electric field ahead of, (E), 22:26399
shock wave interactions with, electric field properties in front of, 21:37489
shock wave interactions with, electron and ion diffusion in, (T), 23:18655
shock wave interactions with, electron density behind, (E/T), 25:9446
shock wave interactions with, electron density measurements in, 23:8630 (BMwF-FBK-68-29)
shock wave interactions with, electron distribution in, (T), 22:36925
shock wave interactions with, electron temperature in, (T), 23:51668
shock wave interactions with, electron temperature distribution in, (T), 23:44428
shock wave interactions with, electron temperature effects in, (T), 23:44427
shock wave interactions with, excitation processes in, 21:23218
shock wave interactions with, in normal and transverse magnetic fields, (E/T), 23:30537
shock wave interactions with, in transverse magnetic fields, 21:18754
shock wave interactions with, ion density and electric field perturbations from, (T), 22:20001
shock wave interactions with, isomagnetic jump in front of strong, (E), 22:24292
shock wave interactions with, jump conditions for transverse, (T), 23:12926
shock wave interactions with, magnetohydrodynamic wave modes in, 22:17686
shock wave interactions with, magnetohydrodynamic wave modes behind, (E), 22:19970 (NP-17347)
shock wave interactions with, precursor observations in, (E), 23:32408
shock wave interactions with, properties of, 22:52767 (AD-669572)
shock wave interactions with, properties of MHD, (T), 22:9352
shock wave interactions with, properties of normal ionizing, (E), 22:36950
shock wave interactions with, properties of oblique, normal, and transverse, 21:33472
shock wave interactions with, properties of, (E/T), 22:39055(R) (AD-664342)
shock wave interactions with, Rankine—Hugoniot equilibrium calculations for, (T), 21:18725
shock wave interactions with, rarefaction waves in, (T), 22:3074
shock wave interactions with, stability of trans-Alfvenic ionizing, (T), 24:17931
shock wave interactions with, summaries of conference papers on, 22:7313
shock wave interactions with, turbulent, (T), 22:52774 (MPI-PAE/PL-6/68)
shock wave interactions with, vorticity behind, (T), 23:12829
shock wave measurements in, description and performance of pressure transducers for, 21:34540
shock wave parameters in singly ionized nonequilibrium, (T), 21:25140
shock wave precursors in argon and helium z-pinch, 24:17916
shock wave production and interactions in ion—acoustic system, (T), 24:42693
shock wave production and propagation in magneto-, (E), 21:9415
shock wave production and properties in inverse pinch, (E), 23:36672
shock wave production and structure in, collisionless, (E), 23:32390
shock wave production in collisionless, ion-acoustic, (T), 25:19698
shock wave production in collisionless, kinetic theory of, 25:17220 (CU-3954-7)
shock wave production in counter-streaming, collisionless electrostatic, 21:33422
shock wave production in discharge, magnetic probe and laser diagnostics of, 24:42659
shock wave production in laser-produced, properties of, 21:33473
shock wave production in Q devices, (E), 23:23108 (RISO-186)
shock wave production of, diagnostic techniques for, 21:7187 (AD-638025)
shock wave propagation in anisotropic magnetized, jump relations for, (T), 24:42699
shock wave propagation in argon and helium, properties of, 22:13453
shock wave propagation in channels with inhomogeneous magnetic fields, (T), 25:1254
shock wave propagation in cold collisionless, near-steady oblique, (T), 25:14324
shock wave propagation in collisionless cesium, properties of, (E), 23:39463
shock wave propagation in collisionless magnetized, (T), 25:9461
shock wave propagation in collisionless magnetized, kinetic model for unstable equilibrium in, 25:56190
shock wave propagation in collisionless magneto-, properties of, (T), 22:15535
shock wave propagation in collisionless Vlasov, existence conditions for hydromagnetic, (T), 25:14326
shock wave propagation in collisionless, anomalous resistivity in, (E), 23:46463
shock wave propagation in collisionless, in absence of magnetic fields, (E/T), 25:36106
shock wave propagation in collisionless, instabilities from, (T), 25:27731
shock wave propagation in collisionless, instability of whistler-dominated, (T), 25:40636
shock wave propagation in collisionless, instabilities in, (T), 23:42289(R) (NYO-3782-3)
shock wave propagation in collisionless, isomagnetic discontinuities in, (E), 25:36125
shock wave propagation in collisionless, laminar electrostatic, (T), 24:51666
shock wave propagation in collisionless, numerical solutions for electrostatic, 25:19678
shock wave propagation in collisionless, two-fluid model for, 25:11930
shock wave propagation in decreasing-density, structure in, (T), 24:28296
shock wave propagation in dense, magnetic field effects on, 21:29257
shock wave propagation in deuterium, neutron emission from strong, 24:45285
shock wave propagation in discharge, (T), 24:17922 (NP-18067)
shock wave propagation in discharges in longitudinal magnetic fields, (E), 25:36092 (UARAEE-101)
shock wave propagation in electromagnetic shock tubes, simulation of strong, (T), 25:43360 (CU-3954-9)
shock wave propagation in finite-β magnetized, structure of oblique, (T), 24:42694
shock wave propagation in high β, (T), 21:31328
shock wave propagation in high β, collisionless, (T), 21:31327
shock wave propagation in high ion temperature, stationary collisionless, (E), 24:19879 (IPP-1/97)
shock wave propagation in high-beta, transverse, (E), 25:47518 (AD-717397)
shock wave propagation in high-temperature, properties of, (T), 21:29319
shock wave propagation in hydrogen and deuterium, strongly ionizing, (E), 25:52839
shock wave propagation in hydrogen, electron heating in, 21:42019
shock wave propagation in hydrogen, ionizing, (E), 24:12804
shock wave propagation in hydrogen, jumps across transverse MHD, (T), 24:24085 (AD-680447)
shock wave propagation in inhomogeneous, oblique, (T), 23:39479
shock wave propagation in magnetic fields, (T), 25:45483
shock wave propagation in magnetized hydrogen, oblique hydromagnetic, (E), 23:32393
shock wave propagation in magnetized, double-structured, (T), 25:33269
shock wave propagation in magnetized, properties of, 22:52796
shock wave propagation in magnetized, weak turbulent, (T), 25:40637
shock wave propagation in magnetized, weak turbulent, (T), 24:47235 (NYO-3782-4, App.3)
shock wave propagation in magneto-, properties of, (T), 21:11662
shock wave propagation in mixtures of deuterium, hydrogen, and helium, normal ionizing, 25:17157
shock wave propagation in nearly stable, collisionless, (T), 24:42697
shock wave propagation in pinch discharge, effect of longitudinal magnetic field on, (E), 25:36117 (UARAEE-106)
shock wave propagation in planar electromagnetic shock tubes, normal ionizing, (T), 24:47231 (NP-18406)
shock wave propagation in rarefied, high-speed, (E), 23:27621
shock wave propagation in theta pinch, stationary collisionless, (E), 24:17915
shock wave propagation in theta-pinch, collective dissipation in, (E), 25:38423 (CONF-710607-122)
shock wave propagation in viscous, with finite electric conductivity, (T), 24:17939
shock wave propagation in z-pinch, velocity and current density in, 22:39097
shock wave propagation in, asymptotic stability of monotonic, (T), 24:19895
shock wave propagation in, attenuation of, (T), 21:15188
shock wave propagation in, computer simulation of ion acoustic, (T), 25:47545
shock wave propagation in, decomposition of decelerating ionizing, (T), 25:19667
shock wave propagation in, effect of fluctuations on MHD, (T), 25:14287
shock wave propagation in, effect of radiation on magnetohydrodynamic, 25:17177
shock wave propagation in, electric field from, 21:11663
shock wave propagation in, instabilities from collisionless, (T), 25:40635
shock wave propagation in, ion wave instabilities from electrostatic, (T), 25:33302
shock wave propagation in, laser measurements of turbulence in collisionless, 25:33257
shock wave propagation in, models for collisionless, 25:56189
shock wave propagation in, nonlinear quasi-neutral solutions for, 24:28347
shock wave propagation in, nonlinear solutions for, 24:45255
shock wave propagation in, pinch device for studying, 21:9592
shock wave propagation in, properties of collisionless, (E), 25:38422 (CONF-710607-121)
shock wave propagation in, relativistic theory of detonation, 25:59043
shock wave propagation in, research on, (E/T), 21:18661(R) (AFCRL-66-826)
shock wave propagation in, review of collisionless, (E/T), 25:56147
shock wave propagation in, solution for cylindrical blast, 24:26217
shock wave propagation in, Stark measurement of turbulence level in collisionless, 24:47281
shock wave propagation in, structure of magnetohydrodynamic, (E), 25:52803
shock wave propagation in, thermal, (E/T), 25:33251
shock wave propagation in, transverse magnetic field effects on structure of, (T), 21:7237
shock wave propagation in, turbulent processes in front of, (E/T), 23:32367
shock wave properties in, electric-driven, (E), 23:23123
shock wave reflection in argon, interferometric study of nonequilibrium processes in, (E), 23:20902 (N-68-37052)
shock wave reflection in xenon, structure of, (E/T), 22:52776
shock wave reflection in, electron density separation from current sheet in, (E), 22:36926
shock wave reflection in, generalized calculations for, (T), 25:33279
shock wave reflection in, microwave measurement of electron temperature in, 22:36890
shock wave simulation in collisionless, two-dimensional, (T), 23:1422 (LA-3990, pp C3.1-11)
shock wave simulation in, high-Mach-number turbulent magnetosonic, (T), 25:59044
shock wave stability in infinitely conducting, (T), 23:12903
shock wave stability in, relativistic MHD, 21:27052
shock wave structure along magnetic fields, collisionless, (T), 24:42696
shock wave structure and propagation in, ionizing, (T), 23:12913

shock wave structure and turbulent heating in theta pinch, (E), 23:32341
shock wave structure in argon, (T), 22:17687
shock wave structure in argon—helium, 22:52766 (AD-669570)
shock wave structure in binary gas mixture, kinetic model for, (T), 23:12822
shock wave structure in binary mixtures, (T), 24:10546
shock wave structure in collisionless, from turbulent wave-particle interactions, 24:37469
shock wave structure in collisionless, laminar wave-train, (T), 25:40632
shock wave structure in electric discharge shock tubes, strong collisional, (E), 24:40065
shock wave structure in electromagnetic shock tubes, (E/T), 25:9445
shock wave structure in fast theta-pinch, (E), 23:32402
shock wave structure in hydrogen theta pinch, (E), 23:36673
shock wave structure in hydrogen, effect of electrode geometry on, (E), 24:28252
shock wave structure in hydrogen, interferometer measurements of, (E), 24:8456(T) (SC-T-69-1058)
shock wave structure in low-density, collisionless, (T), 25:14298
shock wave structure in magnetized hydrogen, oblique hydromagnetic, 22:36917 (ORO-3647-3)
shock wave structure in magnetized, collisionless, (T), 24:19897
shock wave structure in magnetized, review of collisionless, (E/T), 25:43347
shock wave structure in rarefied, (T), 23:16808 (N-68-31436)
shock wave structure in weakly ionized mixtures of, (T), 23:14798
shock wave structure in weakly ionized, (T), 22:26397
shock wave structure in weakly ionized, (T), 23:16846
shock wave structure in, finite-Larmor-radius analysis of laminar collisionless, (T), 25:5102
shock wave structure in, heating effects in, (E), 23:32398
shock wave structure in, hydromagnetic, (T), 25:30528
shock wave structure in, kinetic theory for, 24:8469
shock wave structure in, model for hydromagnetic ionizing, 24:8470
shock wave structure in, oblique and normal ionizing, (T) , 25:14284 (AD-711086)
shock wave structure in, precursor ionization effects on MHD, (T), 25:19681
shock wave structure in, quasi-steady magnetohydrodynamic, (T), 22:22158
shock wave structure in, research on collisionless oblique, (E), 22:24282(R) (ORO-3647-2)
shock wave structure in, research on, (E/T), 21:9613(R) (NP-16419)
shock wave structure in, resistivity-controlled, (T), 23:18657
shock wave structure in, strong transverse, (T), 23:51649 (CLM-R-96)
shock wave structure in, switch-on, (T), 23:20914
shock wave structure in, theory for radiation hydrodynamics, 25:5095 (CEA-R-4057)
shock wave structure in, transverse resistive, (T), 24:26201
shock wave structure in, with electromagnetic fields, 22:50181
shock wave structure in, with nonequilibrium radiation and ionization, 23:39458
shock wave structures in monatomic, ionizing, 23:1471
shock waves from electromagnetic electron—ion streaming instabilities in, (T), 24:17963
shock waves from light sparks in, diamagnetic moment of, (E/T), 25:14282
shock waves in collisionless, existence of, (T), 25:27708
shock waves in collisionless, jump conditions for, 21:40015
shock waves in discharge, steepening of MHD switch-on, 21:44070 (NP-17050)
shock waves in fully ionized, structure of weak, (T), 22:26402
shock waves in high β, collisionless, (T), 23:5314
shock waves in high-density stellar neutron, (T), 22:2738
shock waves in highly ionized helium, (E), 22:39076 (N-68-22854)
shock waves in magneto-, two-fluid equations for potential jump in, (T), 24:35421
shock waves in rarefied, turbulent structure and radio emission of, (T), 22:7086
shock waves in theta pinch, energy dissipation in collisionless, (E), 23:32391
shock waves in, diffusive separation of ions and atoms in, 21:27193
shock waves in, discontinuous structure of viscous isoelectron-temperature, 22:44157
shock waves in, downstream state of collisionless, (T), 25:5099
shock waves in, effect of longitudinal electric field on ionizing, 22:50165
shock waves in, interferometric study of electromagnetically accelerated, 21:29247
shock waves in, isomagnetic discontinuity in collisionless, (E/T), 25:52799
shock waves in, nonadiabatic treatment of finite temperature effects in, (T), 25:40640
shock waves in, properties of collisionless, (E/T), 23:32366
shock waves in, review of, 24:3328
shock waves in, review of, 24:10518
shock-wave interactions in fast thetatron discharges, collective, (E), 23:20906
shock-wave interactions in magnetic fields, arc phenomena in, (E), 23:10628 (IPP-3/78)
shock-wave interactions with hydrogen, ionization processes in, (E/T), 23:1481 (AD-670838)
shock-wave interactions with krypton, radiation cooling behind, (E), 23:30543
shock-wave interactions with rare gas, properties of, (E), 23:25316(R) (AD-678097)
shock-wave interactions with, ambipolar diffusion in, (T), 23:5418
shock-wave interactions with, current status of research on, (E), 23:30541
shock-wave interactions with, flow behind two-dimensional, (T), 23:42316
shock-wave interactions with, ionization properties of MHD, (E/T), 23:25308
shock-wave production in gas discharge, (E/T), 24:35418
shock-wave propagation in collisionless, along magnetic-field lines, (E/T), 25:30620
shock-wave propagation in warm, two-fluid model for collisionless, 24:26191 (N-70-13357)
shock-wave propagation in weak magnetic fields, (T), 25:49903
shock-wave structure in collisionless, review of, (T), 23:51652
shock-wave structure in, with multiply ionized atoms, large-amplitude, (T), 25:40644
simulation by computer, dispersion relations for, 24:18001
simulation by computer, modifications to oscillations, fluctuations, and collisions in, 25:9459 (UCRL-72635)
simulation by computer, optimization of particle calculations in 2 and 3 dimensions, 24:10536
simulation by computers, analog, 24:45252
simulation by computers, research at UCRL on, 24:21753 (UCRL-50002-69, pp 1-28)
simulation by the particle-in-cell method, 24:49159
simulation in cylindrical geometry with azimuthal symmetry, computer, 24:45245 (SU-IPR-373)
simulation in pinch devices, computer program for, 25:52815 (IPPJ-DT-23)
simulation in stellarators, velocity-space effects on, 23:1360 (LA-3990, pp D5.1-5)
simulation of anomalous resistance in, computer, 25:38430 (CONF-710607-65)
simulation of axisymmetric collisionless finite beta, 23:1421 (LA-3990, pp C2.1-16)
simulation of axisymmetric collisionless finite-β, numerical, (T), 23:39486
simulation of azimuthally symmetric cylindrical, computer, 25:25128
simulation of beam discharge, computer, 21:2192 (TID-23318, pp 127-72)
simulation of Bernstein modes in two-dimensional, computer, (T), 25:52884
simulation of binary collision processes in, (T), 24:40084
simulation of cloud interactions, with and without spatial end, 23:1428 (LA-3990, pp D2.1-5)
simulation of collisionless, noise suppression techniques for macroparticle models, 25:9457 (UCRL-72604)
simulation of cyclotron instabilities by computers, 24:35426
simulation of drift loss cone instabilities, computer, 25:17168 (UCRL-50002-70, pp 1.1-36)
simulation of electromagnetic wave interactions with, Darwin model for, 25:14293
simulation of electron cyclotron resonance heating of, numerical, 24:51607
simulation of electron cyclotron resonance heating in, computer, 24:35446(R) (COO-1695-27)
simulation of electron diffusion in magnetic mirrors, computer, 25:17129
simulation of electron-cyclotron-resonance-heated, research on, (T), 25:38484(R) (COO-1695-33)
simulation of electrostatic counterstreaming instabilities in ion beams, (T), 24:40091
simulation of expanding, into vacuum, (T), 25:27709
simulation of fluid ion motion in, computer, 23:46473 (TID-25184)
simulation of heating processes in, computer, 25:1200(R) (UCB-34-P-128-16)
simulation of injection and confinement in linear octupole, 24:35369 (AD-703284)
simulation of low-beta toroidal confined, fluid description for, 23:1359 (LA-3990, pp D4.1-5)
simulation of low-β, fluid model for, 25:25119 (MATT-822)
simulation of low-frequency nonlinear behavior in cold, computer, 24:45291 (ORNL-4545, pp 104-15)
simulation of low-pressure toroidal, one-fluid model for, 25:25118 (MATT-814)
simulation of magnetized, difference schemes for, 24:49104(R) (UCB-34-P-128-15)
simulation of microinstabilities in, reduced space models for computer, 23:1493 (LA-3990, pp D3.1-5)
simulation of microinstabilities in, using superparticle computer models, 25:56206
simulation of nonlinear instabilities in, (T), 25:45495 (UCRL-51059)
simulation of relativistic streaming instabilities in, one-dimensional, (T), 25:52844
simulation of relativistic, computer, 23:44420
simulation of rf heating and confinement of, computer, (T), 25:1199 (CEA-CONF-1617)
simulation of sheet pinch instabilities in, computer, 24:51700
simulation of sheet pinch, computer, 25:3094
simulation of spherically symmetric, computer, 24:51655 (AD-708523)
simulation of spherically symmetric, computer, 25:14289
simulation of stellar atmosphere, using hydrogen, (E), 25:24683 (MPI-PAE/EXTRATERR-38)
simulation of toroidal confinement using fluid model, 25:56129
simulation of turbulent heating in hydrogen, 24:51605 (LA-4510)
simulation of turbulent heating of hydrogen, numerical, (T), 25:11862
simulation of two-beam electrostatic instabilities in, (T), 24:3403
simulation of two-stream instabilities in, methods for, 24:35464
simulation of warm two-beam, (T), 23:1416 (LA-3990, pp A4.1-10)
simulation of warm two-beam, numerical, 24:3357
simulation of Weibel instability in collisionless, 24:42706 (LA-4482)
simulation of Weibel instability in one and two dimensions, numerical, (T), 25:27737
simulation of, accessibility of exact nonlinear stationary states in water-bag model, 25:59025 (CEA-CONF-1832)
simulation of, bit-pushing and distribution pushing techniques for solution of Vlasov equation, 25:25115 (COO-1726-68)
simulation of, cloud-in-cell computer experiments on, 23:1427 (LA-3990, pp D1.1-6)
simulation of, collision and heating in two-dimensional, 25:59033
simulation of, compact noniterative Poisson solver for, 23:42290 (SU-IPR-294)
simulation of, conference on, 23:1412 (LA-3990)
simulation of, effects of spatial grid on, (T), 25:1213
simulation of, electrostatic sheet model for, 24:49155
simulation of, finite-difference methods for models of collisionless, 24:49161
simulation of, finite-size particle model for, (T), 23:1413 (LA-3990, pp A1.1-10)
simulation of, formulation of self-consistent 2- and $2^1/_2$-dimensional electromagnetic and relativistic, 25:9458 (UCRL-72613)
simulation of, modified particle-in-cell method for collisional, 25:17167 (CU-3954-6)
simulation of, research on computer, 25:17168 (UCRL-50002-70, pp 1.1-36)
simulation of, research on, (T), 23:14739(R) (LA-4075)
simulation of, space—time grid effects in, (T), 24:42726(R) (UCB-34-P-128-12)
simulation of, spatial grid theory for, 24:35372(R) (UCB-34-P-128-14)
simulation of, two-dimensional Lax—Wendroff hydromagnetic code for, 23:1426 (LA-3990, pp C7.1-8)
simulation using computers, review of, 25:38444
simulation using finite-size particle techniques, 24:49160
simulation using finite-size particles, (E/T), 25:52825
simulation using finite-size particles, theory of, 24:40085
skin effect in, effect of anomalous viscosity on, (T), 25:33273
slowing down of clusters of, in magnetic fields, (E), 23:42033
sound generation by stimulated Mandelstam—Brillouin scattering, nonlinear, 25:38416
sound propagation in low-pressure discharge, (E), 22:17669
sound propagation in partly ionized, (T), 21:46250
sound velocity in multitemperature, (T), 23:30549
sound velocity in weakly ionized argon, anomalous, (E), 25:52879
space-charge field in dc-discharge, effects of electron temperature gradient on, (T), 22:3096
specific heat of helium and nitrogen, effect of electron excitation on, 25:27692
spectra analysis at outlet of plasmatron, argon, 24:40097
spectra and diffusion in turbulent, with collisional and collisionless dissipations, (T), 24:1418
spectra at high electron densities, H/sub β/ Stark-broadening in, (E), 22:50188
spectra at high electron densities, H/sub β/ Stark-broadening theory for, (E/T), 22:50189
spectra broadening of hydrogen Balmer lines in magnetic fields, Stark, (E), 23:16786
spectra from argon and neon in electromagnetic shock tubes, 24:51632(R) (N-70-28240)
spectra from burnout devices, (E), 22:31806 (ORNL-4238, pp 67-104)
spectra from dense arc discharges, argon and nitrogen, (E), 23:42262
spectra from dense high-temperature hydrogen, (T), 22:24269
spectra from dense slab, line shape of, (T), 24:28459
spectra from discharge-produced, visible and uv, 21:18650
spectra from discharge-produced, visible and uv, 21:18651
spectra from exploding copper wires, time and spatially resolved, (E), 24:47223 (TID-25509)
spectra from helium and hydrogen, comparison of, 21:746
spectra from high-temperature, electron temperature determination from x-ray, 21:25116 (NRL-6541)
spectra from highly ionized dense, x-ray, (E), 25:17162
spectra from highly ionized laser-produced, uv, (E), 23:48893
spectra from inhomogeneous sources, charged particle densities from, 24:15282
spectra from laser-produced aluminum and calcium, 21:23170
spectra from laser-produced sodium, (E), 23:42284
spectra from laser-produced, vacuum uv, 22:20008
spectra from low-density hydrogen, Stark-broadened profiles of H_4—H_{12} lines, (E/T), 24:19877
spectra from low-pressure discharge, uhf, 21:23172
spectra from low-pressure mercury, effects of lf electric fields on luminescence, 24:17918
spectra from magneto-, effect of neutral impurity levels on, (E), 22:24298
spectra from medium-temperature, vacuum uv, (E), 23:12808
spectra from nitrogen afterglow, in magnetic fields, (E), 23:18630
spectra from shock-heated argon, continuous emission, (E), 24:6531 (BMwF-FBK-69-28)
spectra from shock-produced, streak spectrograph for, 21:23167
spectra from sodium-seeded high-temperature, (E), 23:25325
spectra from spark discharge, optical, 21:27134
spectra from, conference papers on, 24:8424

spectra from, measurement of wave-number, (E), 23:20886 (CEA-CONF-1059)
spectra in arc discharges, electron and atom temperature determination from, 22:5320
spectra in argon and hydrogen, Hβ Stark broadening profiles in, (E/T), 25:30268
spectra in crossed electric and magnetic fields, ion luminescence, (E), 25:45467
spectra in electric arcs, partial equilibrium in, (E), 25:1192
spectra in powerful pulsed capillary discharges, (E), 23:32373
spectra in Q devices, discrete and continuum, 22:44093 (ORO-3405-17)
spectra in rf discharges in Omega device, Stark broadening in, (E), 25:7381 (NP-18532)
spectra in shock tubes, infrared spectrometer for, 21:23166
spectra in stochastic varying fields, Doppler broadening of, (T), 23:39451
spectra in strong electric and magnetic fields, Stark effect in, 22:9301
spectra line broadening in, Franck—Condon principle for isolated, 25:59032
spectra line broadening in, ion motion effects on, (T), 24:47248
spectra line broadening in, theory of Stark, 23:3451 (N-68-27559)
spectra line intensity measurements in Tokamak TM-3, hydrogen, 22:3029
spectra line profiles of hydrogen, asymmetry of, (T), 24:12832
spectra line profiles of, one-electron approximation for, (T), 21:2239
spectra lines of, calculation of contour of readsorbed, 22:5321
spectra lines of, effect of electron distribution function on intensity of, 22:52754
spectra measurements of hydrogen, precision, (E), 25:56156
spectra measurements of, electric arc source for, 24:26237
spectra of air and nitrogen, intensity of, (E), 23:34267
spectra of air, carbon dioxide, and nitrogen at 10^4 °K, emissive powers from, (E), 23:51638
spectra of alpha-particle-irradiated rare-gas, (E), 25:40627
spectra of arc discharge, relaxation method analysis of, (T), 23:32358
spectra of argon arc, probabilities of 19 Ar I lines in, (E/T), 24:1392
spectra of argon arc, transition probabilities of Ar I from, (E), 23:39452
spectra of argon positive column, visible, 21:33388
spectra of argon theta pinch, temperature determination from, 21:31395 (BRL-MR-1847)
spectra of argon, in arc discharges, 23:10614
spectra of argon, nitrogen, and oxygen, total, (E), 24:28266
spectra of argon, Stark broadening at high electron densities, (E/T), 23:27336
spectra of argon, Stark broadening parameters of electron-irradiated, (E), 22:24321
spectra of argon, transition probabilities from, 24:25975 (AD-700979)
spectra of argon—deuterium, 4412 A emission line, (E), 22:49946
spectra of argon—hydrogen, variations with temperature of 4300-A line, 24:21789
spectra of barium II, Stark broadening in radially symmetric sliding discharge, (E), 23:25155
spectra of beam-plasma system, analysis of oscillations from, (E/T), 24:35395
spectra of carbon I in arc, Stark broadening in, (E/T), 23:34404
spectra of carbon II and nitrogen II, resonance multiplet line shapes from, 24:23739 (NRL-6950)
spectra of carbon II and nitrogen II, resonance multiplets in, (T), 25:11881
spectra of carbon, transition probability measurements for, 21:29202 (LRP-29/66)
spectra of cesium and cesium—nitrogen mixtures, (E), 23:18619 (AD-674120)
spectra of cesium discharge, effect of electrode polarities on, 24:42668
spectra of cesium, electron density determination from Stark shift in, 21:2203(R) (N-66-21655)
spectra of cesium, electron—ion recombination effects on, 21:37424
spectra of cesium, oscillator strengths from, (E), 23:6986(T) (CEA-tr-R-1939)
spectra of classical ideal gas, correlation of density fluctuations in, (T), 22:20013
spectra of coronal, (E), 23:48669
spectra of cylindrical nonuniform, Doppler widths and Boltzmann temperatures from, 25:47505
spectra of cylindrical, spatial resolution of emission and absorption coefficients for, 22:34638 (AD-665826)
spectra of decaying cesium, maximum luminescence of, (E), 24:26180
spectra of decaying helium, time dependence of, (E), 21:18700
spectra of decaying helium—neon and neon, time dependence of, (E), 21:18701
spectra of decaying hydrogen, in shock tubes, 22:34606
spectra of dense helium, contours and intensity of liner in, 25:59016
spectra of dense helium, profiles of 4471- and 4922-A lines, (E), 25:45466
spectra of dense hydrogen arc, Stark broadening of H/sub α/, (E), 23:14758
spectra of dense, profile asymmetry of Lyman, Balmer and Paschen lines, (T), 22:52740 (IAE-1440)
spectra of deuterium, in Burnout IV device, 21:44141 (ORNL-4150, pp 71-102)
spectra of deuterium, Stark broadening in, 22:11449
spectra of He in H—He, Stark broadening of, (E), 22:38753
spectra of He$^+$ 4686-A line in, broadening in, 24:51404
spectra of helium (He$^+$), profile measurements of pressure-broadened, (E), 24:12810
spectra of helium afterglow, absorption effects on, 25:25088 (NP-18740)
spectra of helium afterglow, time-dependent behavior of 10,830-A line in, (E), 23:32139
spectra of helium and nitrogen, optical, (E), 25:14277 (AD-712024)
spectra of helium arc, equilibrium conditions in, (E), 23:42282
spectra of helium I during turbulent heating, satellites near forbidden lines of, (E), 24:40060
spectra of helium II, unfolding procedure for Stark- and Doppler-broadened, (E/T), 24:8449 (NP-18086)
spectra of helium ions (He$^+$) in, Stark-effect calculations of second Lyman series in, as function of density and temperature, 25:978
spectra of helium, electron and ion broadening in, (T), 23:42239
spectra of helium, electron impact broadening of isolated lines of, (T), 23:16822
spectra of helium, electron temperature and density effects on, 21:11614
spectra of helium, in super hf electric discharges, 21:18715
spectra of helium, polarization shift for resonance line of, (E), 24:10528
spectra of helium, pressure broadening of, 21:27135
spectra of helium, relaxation theory of Stark broadening in, 25:56184
spectra of helium, Stark broadening in, (E), 24:23969
spectra of helium, Stark broadening of 5876-A line in, 24:35411
spectra of helium, Stark broadening of, (E), 24:6533
spectra of hf electric fields in, from two-quantum transitions and spectral line shifts, (E), 23:14784
spectra of high-β toroidal, Stark profiles for turbulence in, (E), 24:32850
spectra of high-density helium arc, 22:31806 (ORNL-4238, pp 67-104)
spectra of high-density lithium, linear Stark broadening in, (E), 23:1387
spectra of high-density, from exploded lithium wires, 23:10622
spectra of high-temperature, bibliography on, 21:29189 (NP-16788)
spectra of high-temperature, use of shock tubes for, (E), 23:30542
spectra of highly turbulent, satellite lines of emission, 25:25125
spectra of hydrogen, asymptotic Holtsmark formula for live broadening by electron and ion impact in, (T), 21:20963
spectra of hydrogen, Balmer line, (E/T), 23:51622
spectra of hydrogen, effect of strong collisions on H/sub α/ profile, 22:31823
spectra of hydrogen, in magnetic field, 21:25109 (CEA-R-3161)
spectra of hydrogen, Inglis—Teller limit of Lyman and Balmer series, 24:32616
spectra of hydrogen, magnetic field effects on, 21:7188 (CEA-R-3057)
spectra of hydrogen, magnetic field effects on, 21:27139
spectra of hydrogen, radiative transport properties of, (E), 23:34416
spectra of hydrogen, Stark-profile calculations for first four Balmer lines in, (T), 24:48999 (SC-M-70-584)
spectra of hydrogen—carbon at 40,000°K and 70 atm, coefficient of continuous absorption, (E/T), 23:34402
spectra of inhomogeneous, dispersion contour of, 21:20933
spectra of inhomogeneous, Doppler contour of, 21:20932
spectra of laser-produced helium, (E), 23:48880 (AD-690193)
spectra of laser-produced lithium hydride, uv and visible, 24:45234
spectra of laser-produced, effects on, 22:20007
spectra of linear z-pinch discharge in helium at 6 torr, (E), 23:14760
spectra of low-density arc-heated nitrogen, properties of, 21:738 (AD-640625)
spectra of low-temperature, effect of nonhomogeneous interatomic electric fields on, (T), 25:3108
spectra of magnetically compressed high-temperature, (E/T), 24:10515
spectra of magnetohydrodynamic turbulent, (T), 24:12818 (NP-18110)
spectra of mercury discharge, effect of specific pressure and electron impact broadening on, (E), 23:18378(T) (UCRL-Trans-10322)
spectra of mercury, line intensity in discharge afterglows, 25:14100
spectra of multiply ionized atoms of, produced by lasers, (E), 22:50196
spectra of neon, nitrogen, and oxygen, rate coefficients for collisional excitation, (E), 25:22506
spectra of neutral argon and neon, Stark broadening of resonance lines of, 25:9171
spectra of neutral silicon in argon arc, (E), 21:46370
spectra of nitrogen at 0.5 to 1.1 μ, (E), 23:5430
spectra of nitrogen in glow discharges, negative absorption, 21:42043
spectra of nitrogen positive column, mass, 21:2261
spectra of nitrogen, excitation energy determination from, 21:37433
spectra of nitrogen, photodetachment cross sections for negative ions in, (E), 23:12795
spectra of nitrogen, Stark broadening in, 21:44040
spectra of nonequilibrium cesium, light emission, 24:1381
spectra of nonhydrogenic ions in, Stark broadening functions for, 25:11892
spectra of one-electron ion in, higher-order perturbation theory for, 25:14283 (AD-710950)
spectra of optically thick, absorption corrections for, 25:5088 (AD-710218)
spectra of oxygen and nitrogen, emissive power of, (E/T), 23:10633
spectra of oxygen, transition probabilities from, (E), 23:51646
spectra of partially ionized xenon, absorption, (E), 25:14280
spectra of positive column, ionization waves in, (E), 24:51645
spectra of rare gas, continuous, (T), 22:17660
spectra of rarefied, population of highly excited levels in, (T), 24:1407
spectra of rotational-symmetric, radial distribution of emission and absorption coefficients for, (T), 25:30524
spectra of rotationally symmetric, computer program user's manual for analyzing, 23:1372 (AD-670170)
spectra of shf field-excited, with and without magnetic fields, (E), 23:18621 (CONF-680113-(Vol.1), pp 179-201)
spectra of shf-excited, resonance effects on, 21:39989
spectra of shock-heated, ion energy, (E), 23:51620
spectra of thermal, temperature effects on, 21:3830
spectra of turbulent flow heating in, fluctuation level, (E), 25:1165
spectra of turbulent heated in Burnout V, Doppler broadening in, (E), 23:42278
spectra of turbulent helium, forbidden transitions in, 25:25126
spectra of turbulent, Coulomb collision effects on, 21:37446 (JINR-P9-3394-2)
spectra of turbulent, high-frequency, 22:50064
spectra of turbulent, mode coupling and energy cascading in, (E), 25:52813
spectra of two-component, thermal excitation functions from, 21:16921
spectra of undriven electron oscillations in nonuniform collisionless, (T), 22:24295
spectra of unequal ion and electron temperature, effects of collisions on noncoherent scattering, 24:47228 (CEA-N-1295)
spectra of warm uniaxial, Doppler effect in, (T), 22:52746
spectra of xenon, absorption in continuum region, (E), 23:23119
spectra of, calculation of profiles of forbidden components of Stark-broadened lines of, 24:45000
spectra of, clean shock tube development for, 25:9510
spectra of, collision broadening of, 21:2217
spectra of, collisional broadening of ion lines in, (T), 24:35055
spectra of, continuous, (E/T), 21:41787
spectra of, contribution of perturbed radiation to electron-impact broadening of, (T), 23:10634
spectra of, device for measuring time-resolved profiles of, 25:58989
spectra of, diagnostic use of, (T), 21:11608 (NP-16443)
spectra of, Doppler shift in, (T), 24:3353 (JINR-P4-4647)
spectra of, effects of intermolecular electric fields on probabilities of dipole transitions, (T), 23:32148
spectra of, electrodynamic line broadening and linear Stark effect in, (T), 24:48916
spectra of, electron collisional effects on, 22:9297
spectra of, electron correlations in Lyman-α, 21:29215
spectra of, electron correlations in unified line shapes, (T), 25:59026 (CEA-CONF-1834)
spectra of, electron density and temperature determination from, 21:29205
spectra of, electron density determination from intensity of, 21:42044
spectra of, electron density determination from relative ion intensities in, 21:33375 (INR-789/XVIII/PP)
spectra of, electron temperature and recombination coefficients from, (E/T), 25:58993
spectra of, electron-broadening shift functions for, (T), 24:32833
spectra of, emission coefficients from, 22:41551
spectra of, field strength measurement from Stark effect, (E), 23:20890(T) (UCRL-Trans-1388)
spectra of, Green's function theory of atomic line broadening in, (T), 23:14761
spectra of, He-like resonance lines in, (E), 23:18351
spectra of, internal electric field effects on, 21:46335 (UCRL-50002-67, pp 127-46)
spectra of, line shape in optically dense, (T), 21:31415
spectra of, method for analysis of wave number, (T), 22:52744
spectra of, non-Markovian impact theory for, (T), 23:51648 (CEA-CONF-1399)
spectra of, pressure broadening of lines of, review, (T), 24:17934
spectra of, radiative transfer in lines of, 21:20928
spectra of, relation of thermodynamic properties to, (T), 21:43711
spectra of, relaxation theory of line broadening in, 21:29238
spectra of, remote scanning spectrometer for electron temperature determination, 25:52783
spectra of, review of Soviet work related to, 22:2788
spectra of, shift and width of ion lines in adiabatic limit, 21:37432
spectra of, Stark broadening in two-level approximation in, (T), 24:30066
spectra of, Stark broadening of Hγ in, (E), 23:44112
spectra of, Stark broadening of hydrogen lines in, (T), 22:1168
spectra of, Stark broadening of isolated ion lines in, 21:29214
spectra of, Stark broadening of Lyman α line in, 22:43886
spectra of, Stark effect in, (T), 21:33382
spectra of, Stark widths and shifts for neutral atomic lines, 24:23973

spectra of, techniques for vacuum uv and soft x-ray, 22:9300
spectra of, temperature and electron density determination using Saha equation, (T), 25:36102
spectra of, volume light sources for, 25:33246
spectra profiles of helium in pulsed arcs, (E), 25:25112
spectra variations from, effects of Maxwellian energy distribution on, 23:8614
spectra, radiation transfer in, (T), 22:945(T) (CLM-Trans-10)
spectral absorption in cesium-seeded hydrogen, uv, (E), 24:1394
spectral absorptivity of pulsed discharge, determination from spectral density of radiance, 23:6980
spectral analysis of, review of, 21:18652
spectral broadening and shift in argon, 23:3460
spectral broadening and shift of calcium by microfields in, (E), 24:10516
spectral broadening in, theory of electron-impact, 24:37460 (IPPJ-90)
spectral distributions of turbulence in collisional and collisionless, (T), 23:16810 (N-68-33899)
spectral evolution of laser-produced helium, satellite lines of forbidden transition in, (E), 24:1395
spectral line broadening from, unified model for Stark, (T), 24:8466
spectral line broadening in arcs, Stark effect, 25:33244 (PTB-JB-1/71)
spectral line broadening in hydrogen, (T), 22:24314
spectral line broadening in hydrogen, Holtsmark formula for, 21:13568 (N-66-37319)
spectral line broadening in, charge-density fluctuations in, (T), 24:5168
spectral line broadening in, collective effects on, (T), 24:26194
spectral line broadening in, electron correlations in, 22:13447
spectral line broadening in, electron correlations in, 22:39064 (N-68-12880)
spectral line broadening in, relaxation theory for, 21:33385
spectral line broadening in, theory for electron-impact, 25:22523
spectral line broadening in, transition between quasi-static and impact limits in, (T), 24:1438
spectral line broadening theory for, 23:23148
spectral line broadening theory for, effects of ion microfield distributions on, 23:10615
spectral line broadening theory for, generalized width and shift functions for electron, (T), 24:1440
spectral line distortion in inhomogeneous, thickness effects on, 21:31410
spectral line emission characteristics of argon—tungsten and argon—uranium, (E), 23:34409 (N-69-22920)
spectral line emission characteristics of argon—tungsten and argon—uranium, (T), 23:34424 (N-69-21124)
spectral line intensities in, effect of electron temperature variations on, 25:56171
spectral line intensity cutoffs in, application of screened Coulomb potential model to, (T), 23:46292
spectral line overlap allowance for optical thickness determination, 21:31411
spectral line profile and shift measurements for, instruments for, (E), 25:36091 (UARAEE-95)
spectral line profiles of from low-density, low-temperature, Balmer and Paschen, (T), 21:15116
spectral line profiles of, effect of resonance broadening and reabsorption on, 23:1204
spectral line shift due to electrons and ions in, impact theory of, (T), 23:41802
spectral line shift in cesium, electron density correlation with, (E), 22:41563
spectral lines due to electrons and ions in, impact theory of broadening and shift of, (T), 23:36696
spectral lines emitted by aluminum and lithium, at 5,000 to 100,000°K, (E), 23:3464
spectral lines in argon arc, Stark broadening of, 22:7270
spectral lines in, effects of radial dependence on parameters of symmetric self-reverse contour of, (T), 22:52816
spectral lines of argon, transition probabilities, half-widths, and dislocation of, 22:39079(T) (SC-T-68-1530)
spectral lines of hydrogen from, broadening by electrons, (T), 23:5131
spectral lines of ionospheric, Thomson scattering probe for examining, 22:34439
spectral lines of optically thin, profile approximations of, 22:34272
spectral lines of, electron broadening of isolated, 22:41564
spectral polarization shifts in, self-consistent field formulation of, (T), 25:17173
spectral properties of discharge in hydrogen cluster beams, 21:27109
spectral resonance lines of singly ionized calcium in, shape and shift of electron-excited, (T), 24:17895
spectral theory for one-electron ion in, perturbation theory for, 25:22522
spectral-line broadening in hydrogen, amplitude modulation and nonadiabaticity of Stark, (T), 25:14310
spectral-line broadening in singly ionized argon, Stark, 24:30149
spectral-line broadening in turbulent hydrogen, Stark, (T) , 25:19693
spectral-line broadening in, (T), 23:34387(R) (AD-683353)
spectral-line broadening of aluminum, argon, and helium, (E/T), 24:28244(R) (N-70-16988)
spectroscopy of, bibliography on, 21:20015
spherical wave focusing in semi-confined, linear, (T), 22:41584
spin-exchange scattering in, (E), 25:49621 (AD-716800)
stabilities in finite, dispersion relation for in-,, 23:32531
stability against interchanges in general magnetic fields, (T), 24:10570
stability against low-frequency interchanges, energy principle for, 22:13524
stability analysis for, Newcomb entropy method for, 21:9628
stability and anomalous diffusion in reflex discharges, 22:52836
stability and configurations in electric arcs, 21:20995
stability and cyclotron wave excitation in mirror-confined hot-electron, (E/T), 23:46494 (CEA-CONF-1309)
stability and entropy of equilibrium configurations, (T), 23:12892
stability and equilibria of collisionless, in cylindrical geometry, (T), 22:17708
stability and equilibrium in Astron and minimum-B mirror systems, (T), 25:36165 (UCRL-51030)
stability and equilibrium in closed magnetic traps without rotational equilibrium, (T), 25:9491
stability and equilibrium in Doublet II, (T), 25:7410(R) (GA-10278)
stability and equilibrium in Heliotron magnetic fields, (T>, 25:30549
stability and equilibrium in high-beta toroidal systems, (T), 25:38482 (CONF-710607-118)
stability and equilibrium in high-current discharges, (T), 23:42333(T) (AEC-tr-7050)
stability and equilibrium in linear multipole magnetic fields, (T), 24:35470
stability and equilibrium in Tokamak and hybrid systems, (T), 25:38472 (CONF-710607-82)
stability and equilibrium in Tokamak-type devices, magnetohydrodynamic, 25:11911 (EUR-CEA-FC-569)
stability and equilibrium in toroidal systems with currents, (T), 24:12837(T) (AEC-tr-7123)
stability and equilibrium in toroidal systems, (T), 23:42337 (NP-17973)
stability and equilibrium of current-carrying, (T), 24:49188
stability and equilibrium of high-current discharges in low-temperature, (T), 23:48921
stability and equilibrium of non-neutral, rotor, (T), 24:51709
stability and equilibrium of noncircular cross section, in Tokamak devices, (T), 25:38473 (CONF-710607-83)
stability and equilibrium of toroidal, effect of hf electric fields on, 25:9499
stability and equilibrium of toroidal, with small aspect ratio, (T), 24:26040
stability and gas breakup in DCX-2, 24:45266 (ORNL-4545, pp 116-23)
stability and melting of solid electron, (T), 21:33490
stability and nonlinear processes in short magnetized positive columns, 21:37506
stability and transport processes in toroidal-confined, 22:5386(T) (NP-tr-1600)
stability and turbulence in alkali metal, research on, 22:1270(R) (ORO-2454-9)
stability and voltage oscillation in MHD generator, (T), 22:38850
stability and wave propagation in finite, kinetic theory of, 24:8495
stability and wave propagation in nonuniform, vlf, 24:37513
stability and wave propagation theory for, 24:37512
stability at magnetic field interface with, turbulence, (E/T), 22:36951(R) (N-68-15826)
stability between plane conducting walls, radiations from, 21:15197
stability calculation for Astron configurations, 23:8572 (MATT-653)
stability conditions in, dynamic stabilization of low-frequency microin-, (T), 22:52834
stability criteria for hot, using wave analysis, 24:26222 (AD-697949)
stability criteria for magnetically confined, (T), 25:25137
stability criteria for mirror instabilities in high-β theta pinches, (T), 23:30574
stability criteria for multipole-confined, electromagnetic modes of, (T), 25:38485 (EUR-CEA-FC-574)
stability criteria for relativistic, in magnetic fields, (T), 25:59064
stability criteria for self-consistent low-β, low-frequency interchange, (T), 25:17200
stability criteria for, effects of irregular distribution function on, 24:37488
stability criteria in nonuniform magnetic fields, energy, (T), 23:51686
stability criterion for helical instability of hollow column of, in magnetic field with shear, (E/T), 22:24359
stability criterion for magnetic wells, (T), 25:1239
stability during turbulent heating by currents, current-interchange, (E/T), 25:14344
stability for anisotropic ion velocity distributions in, quasilinear theory of, 22:11478
stability growth and damping rates in crossed fields, resistive in-, (E), 23:14817
stability in 8-m theta-pinch high-β, (E), 23:32461
stability in absence of magnetic field of weakly inhomogeneous, with two ion species, (T), 24:28313
stability in adiabatic magnetic mirror traps, cyclotron, (E/T), 23:32469
stability in adiabatic magnetic traps, cyclotron, (T), 25:22549
stability in adiabatic minimum B fields, ion cyclotron, 21:44136
stability in adiabatic traps, review of, 24:30354
stability in annular electrodeless discharges, 21:20992
stability in arbitrary geometries, theory for, 23:34444 (AD-684544)
stability in argon arcs in magnetic fields, (E/T), 25:56196(R) (N-71-25028)
stability in Astron device, (T), 23:32448
stability in "average minimum-B" configurations, low-frequency interchange, 22:7334
stability in axially symmetric magnetic fields, 21:3900
stability in axisymmetric closed configurations, magnetohydrodynamic, (T), 24:30353 (IPP-6/81)
stability in axisymmetric systems, temperature gradient, (T), 23:36717
stability in axisymmetric tori, quasi-electrostatic modes in, (T), 24:42709
stability in axisymmetric toroidal configuration, ballooning modes of, (T), 24:40113
stability in axisymmetric toroidal systems, trapped-particle, (T), 23:32478
stability in axisymmetric torus, low-frequency, (T), 23:32476
stability in axisymmetric toruses, low-frequency, (T), 22:46190 (MATT-617)
stability in B/sub theta/ magnetic fields, negative mass, (T), 22:13526
stability in Bille-en-Tete device, 22:50126(R) (EUR-CEA-FC-352)
stability in bounded collisionless, drift, (T), 24:35453
stability in bumpy field in Scylla IV, 22:11404(R) (LA-3831)
stability in bumpy theta pinch ISAR I, m = 1, (E), 25:49911 (IPP-1/115)
stability in closed configurations, magnetohydrodynamic, (T), 24:28305 (AD-700106)
stability in closed configurations, magnetohydrodynamic, (T), 25:19721
stability in closed systems, (T), 23:32480
stability in closed traps without rotational transform, (T), 24:12838(T) (CTO-671)
stability in coaxial discharges, hydromagnetic, (T), 23:30573
stability in cold, effect of multiperiodic hf field on two-stream, (T), 22:17703
stability in collision-dominated, universal, (T), 21:2192 (TID-23318, pp 127-72)
stability in collisionless potassium, ion-cyclotron in-, (E), 22:52837
stability in collisionless shock waves, ion—acoustic, (T), 23:18676
stability in collisionless shocks, nonlocal behavior of ion acoustic, (T), 25:52843
stability in Columba Z-pinch, radial, (T), 23:14739(R) (LA-4075)
stability in combined electric and magnetic fields, with two ion species, (T), 25:49913
stability in combined magnetic fields, (E), 22:9404
stability in constant magnetic and hf electric fields, lf, (T), 25:3121
stability in contrastreaming, gravitohydromagnetic, (T), 25:35793
stability in controlled fusion reactions, review of, 22:31882
stability in corrugated magnetic fields, (T), 24:17971
stability in corrugated theta-pinch magnetic fields, 21:11668 (IPP-1/55)
stability in cross fields, from ionization and recombination processes, 22:17705
stability in crossed electric and magnetic fields, frequency and amplitude shifts in, (T), 25:14338
stability in crossed fields, nonlinear, (T), 21:33488
stability in crossed-field geometries, onset and suppression of, 23:1495 (N-68-29902)
stability in current layer of turbulent z discharges, ion-acoustic, (E), 25:17201
stability in current multipole Doublet-I experiments, 23:32445
stability in current toroidal multipoles, theory for, 24:35469
stability in current-carrying curved columns, flute, (T), 23:14816
stability in current-carrying toroidal systems, (T), 25:36181
stability in curvilinear columns with currents, flute, 23:3523(T) (MATT-Trans-54)
stability in curvilinear magnetic fields, ion cyclotron, 21:33491
stability in cusp magnetic geometries, for 20-keV hydrogen-ion beam injection, 25:47554 (NP-18939)
stability in cylindrical circularly polarized magnetic fields, magnetohydrodynamic, 21:46380
stability in cylindrical geometry, nonlocal drift, 21:42137
stability in DCX-1.5, Z-mode, (E), 23:34455 (ORNL-4401, pp 45-51)
stability in DCX-2 device, modified negative mass, (E/T) , 23:34456 (ORNL-4401, pp 52-78)
stability in DCX-2 device, modified negative mass, (E), 23:32466
stability in DCX-2 experiment, 22:52827 (CONF-671127, pp 98-143)
stability in DECA II machine, ion cyclotron, (E), 23:32467
stability in diffuse pinch configurations, high-beta, (T), 25:40676
stability in dipole magnetic field, correlated with auroral phenomena and origin of planetary systems, (E/T), 21:18774
stability in discharge, suppression by rf electric field of drift-wave, (E), 24:35458
stability in discharges, conditions for electrothermal, (T), 24:28318
stability in discharges, criteria for interchange, (T), 24:40116
stability in discharges, research on alkali metal, (E/T), 25:1222(R) (ORO-2454-14)
stability in discharges, superheating, (T), 25:1226
stability in double beam—plasma system, reversibility and damping in, (E/T), 24:1446
stability in electric and magnetic fields, E x B, (T), 23:23176
stability in electric arcs, anode sheath theory for, 21:23221 (66-C-494)
stability in electric arcs, hydrogen, 21:44141 (ORNL-4150, pp 71-102)
stability in electric arcs, operational parameters for vortex, 21:20993
stability in electric discharges, 22:3137

stability in electrodeless induction discharges, wave excitation and thermalization in, 21:15199
stability in electromagnetic fields, parametric and Raman, (T), 24:24019
stability in electromagnetic shock tubes, 21:20991
stability in electron cyclotron resonance discharge, enhanced, 22:46193 (TID-24666, pp 135-44)
stability in electron-cyclotron-resonance, electromagnetic, (E/T), 24:32853
stability in ELMO device, maximum pressure for, (T), 24:45264 (ORNL-4545, pp 9-37)
stability in ELMO facility, 24:45219 (ORNL-4545, pp 59-71)
stability in external electric fields oscillating near plasma frequency, (T), 25:59067
stability in external hf electric fields, loss cone, (T), 23: 18680
stability in external magnetic fields, electron—ion drift velocity effects on electrostatic, (T), 25:47561 (ORNL-TM-3532)
stability in extraordinary waves across magnetic field, (T) , 21:2205 (TID-23318, pp 187-91)
stability in fast theta pinches, magnetic equilibrium, (T), 23:32453
stability in field of weak transverse wave, (T), 24:24012
stability in fluctuating toroidal magnetic fields, (T), 21: 23231
stability in general magnetic field configurations, drift, (T), 22:20031
stability in geodesic curving magnetic fields, interchange, (T), 21:33362 (MATT-Q-24, pp 197-334)
stability in gravitational field, hydromagnetic, (T), 23: 46499
stability in gravitational fields, interchange, (T), 24: 10535 (MATT-749)
stability in Gulf GA octupole and quadrupole devices, (E/T), 23:51683(R) (GA-9674)
stability in Gulf General Atomic multipole devices, (E), 23:32477
stability in hard-core theta-pinch devices, 22:1269 (LA-3770, Paper G6)
stability in helical magnetic fields, pressure effects on, 22:15546
stability in helicoidal magnetic field of stellarators, drift, 21:40039
stability in Helios device, centrifugal, (E), 23:20945
stability in helium—oxygen mixtures, helical, (E), 22: 9402
stability in hf discharges in toroidal magnetic fields, (E), 25:38488
stability in hf discharges, electron temperature in, (E/T), 24:24010 (NP-18188)
stability in hf electric fields, quasi-linear destabilization of dissipative parametric, (T), 25:36170
stability in hf electric fields, velocity anisotropy, (T), 25: 38489
stability in hf electromagnetic fields, drift, (T), 25:36177
stability in hf spatially uniform external electric fields, 22:9400
stability in high-β toroidal pinch, (E/T), 25:38457 (CONF-710607-16)
stability in high-current discharge, collective interactions in, (E), 24:17968
stability in high-current discharges, (T), 23:12872 (NP-17748)
stability in high-current pinch discharges, (T), 23:36708 (NP-17953)
stability in high-energy discharges, (T), 25:33297
stability in hollow column, radial density profile and critical magnetic field for helical, (E), 21:44139
stability in hollow positive column discharges, effect of azimuthal magnetic field on helical, (E), 22:31874
stability in homogeneous magnetic field, in case of separated electron streams, (T), 21:18773
stability in homogeneous magnetic fields, with exponential density profiles, (T), 25:49917
stability in inhomogeneous magnetic fields, current-convective, (T), 21:18770
stability in inhomogeneous mirror machines, loss-cone modes, (T), 25:36166 (UCRL-73135)
stability in injection device DCX-2, 21:44129 (ORNL-4150, pp 47-55)
stability in injectors, ion cyclotron, (T), 22:34720
stability in INTEREM facility, 24:45265 (ORNL-4545, pp 38-57)
stability in ISAR I linear theta-pinch, m = 0 mirror, (E), 25:36182
stability in ISAR I theta-pinch, mirror, (E), 24:51694 (IPP-1/105)
stability in ISAR IV toroidal screw pinch, (E), 25:38459 (CONF-710607-18)
stability in ISAR IV toroidal screw pinch, (E), 25:38458 (CONF-710607-17)
stability in kinetic regime, radiative, (T), 21:27215
stability in l = 1 stellarators, high-beta, (E), 25:38479 (CONF-710607-115)
stability in large volume neutral injection mirror machines, (T), 21:23232 (UCID-15108)
stability in linear and toroidal theta pinches, 22:46189 (LA-DC-9324)
stability in linear discharge, thresholds of two-stream, (E) , 25:49920
stability in linear Hall accelerator, screw, 21:27220
stability in linear multipole magnetic fields, 23:44456
stability in linear multipoles, convective cells in quiescent, (E), 24:35462
stability in linear quadrupole device, flute, (E), 23:44454
stability in linearized systems, marginal, (T), 23:30568 (NP-17891)
stability in longitudinal magnetic fields, shear, (T), 23: 14815
stability in loss cone of magnetic field, electrostatic, (T), 22:13518(T) (UCRL-Trans-10203)
stability in low-energy theta pinch, resistive, (E/T), 22: 13525
stability in low-temperature seeded MHD, effects of electron current along magnetic field on ionization in-, (T), 24:35454
stability in magnetic field, quasi-linear theory of electron beam relaxation, 22:31870
stability in magnetic fields, effects of Hall current and electric conductivity on Rayleigh—Taylor, (T), 24: 42712
stability in magnetic fields, electron-cyclotron drift, (T), 25:1230
stability in magnetic fields, finite-amplitude, (T), 24: 24020
stability in magnetic fields, relation to adiabatic invariants, (T), 21:11667 (CLM-R-63)
stability in magnetic fields, review of, (T), 21:9634
stability in magnetic fields, temperature gradient effects on, (T), 21:18765
stability in magnetic fields, with anisotropic distribution function, (T), 25:22546
stability in magnetic mirror ELMO facility, diamagnetic, (T), 23:34429 (ORNL-4401, pp 1-24)
stability in magnetic mirror fields, (T), 21:35207
stability in magnetic mirror fields, cyclotron-wave, (T), 21:18767
stability in magnetic mirror fields, loss cone, (T), 22: 31866 (ORNL-4238, pp 1-27)
stability in magnetic mirror geometries, hf, (T), 24: 19907 (ORNL-TM-2864)
stability in magnetic mirror machines, computer analysis of slow interchange, 23:42340
stability in magnetic mirror machines, cyclotron, (T), 21: 46383
stability in magnetic mirror machines, drift-cyclotron, 22:52829 (CONF-671127, pp 350-62)
stability in magnetic mirror machines, electrostatic modes of, (T), 25:47570
stability in magnetic mirror machines, research on, (T), 25:45494 (ORNL-4688, pp 1-23)
stability in magnetic mirror traps, ion-cyclotron and negative mass, 24:24014
stability in magnetic mirror wells, ion cyclotron drift loss cone, (T), 23:14819
stability in magnetic mirrors in C stellarator, ion cyclotron, (E), 23:32482
stability in magnetic mirrors, boundary conditions for convective wave, (E/T), 25:27750
stability in magnetic mirrors, effect of finite plasma length on ion cyclotron, (T), 23:25378
stability in magnetic mirrors, high-temperature, (T), 21: 31470
stability in magnetic mirrors, loss cone, (T), 21:23227
stability in magnetic mirrors, loss-cone, (T), 21:23228
stability in magnetic mirrors, resonant loss-cone, (T), 23: 32470
stability in magnetic mirrors, simulation using superparticle computer models, 23:39496 (UCRL-71636)
stability in magnetic traps, (T), 22:26359
stability in magnetic traps, drift wave, (T), 23:44453
stability in magnetic traps, magnetohydrodynamic theory for, 22:15548
stability in magnetic traps, theory for microinstabilities in, 22:50203
stability in magnetic wells produced by beam currents, (T), 22:31878
stability in magnetic wells, ion cyclotron, 21:46381
stability in magnetic wells, ion cyclotron, (E), 23:23163 (CEA-R-3680)
stability in magnetic wells, low-frequency interchange, (T), 23:1499
stability in magnetic-mirror confined, ion cyclotron, (T), 24:12841
stability in magnetically balanced cross-flow arcs, (E), 24:17920
stability in magnetized afterglow, with transverse currents, (E), 25:36175
stability in magnetized helical glow discharges, drift losses in, (E), 23:42343
stability in microwave-excited positive columns, ion, (T), 25:14336 (NP-18662)
stability in minimum B adiabatic traps, ion cyclotron, (E) , 22:20026 (IAE-1331)
stability in minimum B Q-devices, anomalous transport and oscillations in, 21:33481 (CONF-670104-Pt.1, pp 283-301)
stability in minimum-B adiabatic traps, ion-cyclotron, 22:13516(T) (NP-tr-1604)
stability in mirror machines at low density, flute, 21: 29314
stability in mirror machines, approximate equations for, 21:29313
stability in mirror machines, ion cyclotron, 25:38478 (CONF-710607-95)
stability in Model C stellarator, ion cyclotron, 22:52828 (CONF-671127, pp 196-214)
stability in model mirror fields, micro-, (T), 24:45264 (ORNL-4545, pp 9-37)
stability in modified Penning discharges, lf, (E), 24: 28311
stability in modified Penning discharges, temperature, (T) , 24:40115
stability in modified PIG discharge, low-frequency, (E/T) , 23:42336 (IPP-3/92)
stability in multipole devices, 23:7025 (GA-8669)
stability in multipole devices, effect of trapped particles on drift-cyclotron, (T), 24:24021
stability in multipoles, electromagnetic trapped-particle modes in, (T), 24:51703
stability in negative V fields, 21:20988 (MATT-Q-23, pp 181-320)
stability in negative V stellarators, pressure effects on, 21:15208
stability in neutral injection device DCX-1.5, flute, 21: 44128 (ORNL-4150, pp 36-46)
stability in nonuniform electric fields, drift, 24:26230
stability in nonuniform electric fields, flute, 21:27217
stability in nonuniform electric fields, flute, (E/T), 23: 8639
stability in nonuniform magnetic fields, current effects on, (T), 23:32472
stability in nonuniform magnetic fields, ion cyclotron, (T) , 24:47269(T) (UCRL-Trans-10482)
stability in nonuniform radial electric fields, drift, (T), 25:45496
stability in open-end magnetic traps, review of linear theory for, 21:13609 (ORNL-4063, pp 94-110)
stability in open-ended systems, research review on, (E), 23:27605
stability in operating fusion reactor, thermal, (T), 25: 38483 (CONF-710607-132)
stability in oscillating discharges, nonlinear theory of, 21:810
stability in parallel electric and magnetic fields, kinetic equation for, 21:9624
stability in Penning discharges, helical, 21:9626
stability in perpendicular collisionless shock waves, (T), 25:27731
stability in Phoenix II experiment, ion cyclotron, 22: 52826 (CONF-671127, pp 1-26)
stability in PIG reflex discharges, in strong magnetic fields, 21:18771
stability in planetary magnetospheres, 21:9453
stability in positive column discharges with longitudinal magnetic fields, screw, (T), 22:31875
stability in positive column discharges, (T), 25:59072
stability in positive column discharges, in hf electric fields, (E/T), 25:40675
stability in positive column discharges, in magnetic fields, (T), 21:11633(R) (SU-IPR-124)
stability in positive column discharges, quasi-linear theory of spiral, 23:51685 (UR-3942-5)
stability in positive column discharges, research on, (E/T), 22:1272(R) (SU-IPR-198)
stability in positive column of finite length, in magnetic fields, (E/T), 24:51701
stability in positive column, quasi-linear theory of spiral, (T), 24:8483
stability in positive columns, effect of helical, on radial density and potential distribution, (T), 25:27738
stability in postive column discharges, relations for helical, ion acoustic and drift, (T), 23:36710 (SU-IPR-296)
stability in PR-5 machine, ion cyclotron, (E), 23:32468
stability in pre-flare chromosphere, (T), 21:41708(T) (NASA-TT-F-455, pp 78-82)
stability in presence of neutral particles, hydromagnetic Kelvin, 22:1276
stability in Q device in low-density regime, (E/T), 23: 30570
stability in Q devices, development of collisional-drift, (E), 24:3385 (MATT-730)
stability in Q devices, drift, (E), 25:5112
stability in Q devices, effect of finite ion Larmor radius on Kelvin—Helmholtz, 22:1271 (RISO-158)
stability in Q devices, effect of radial electric fields on, (E), 23:32475
stability in Q devices, periodic pulling of drift wave, (E/T), 24:32849 (ORO-3405-30)
stability in Q devices, periodic pulling of drift, (E), 25: 14337
stability in Q devices, soft- and hard-onset and amplitude saturation of collisional drift instabilities, 24:26233
stability in Q devices, transverse Kelvin—Helmholtz, (T), 24:15337
stability in Q machine, research on, 21:18761(R) (ORO-3405-11)
stability in Q machines, collisional drift, (T), 25:3119
stability in Q machines, mode synchronization phenomena in universal, 21:20989 (ORO-3405-15)
stability in quadrupole devices, (T), 23:14739(R) (LA-4075)
stability in quadrupole magnetic fields, ballooning, 22: 9399
stability in quasi-homogeneous magnetic field, hydromagnetic, (T), 22:13521
stability in reflex arcs, effects of steady-state oscillations on, (E/T), 25:19707
stability in rf discharges in argon, in magnetic fields, 24: 21812
stability in rf fields, review, (T), 21:44022
stability in rotating inhomogeneous, drift, (E/T), 24: 35457
stability in rotating magnetic fields, 22:9401
stability in rotating magnetic fields, short-wavelength, (T) , 25:9487 (LRP-42/70)
stability in sac configuration, fast-randomization phenomena in, 21:42128
stability in Scylla devices, research on, (E/T), 25: 30450(R) (LA-4585)
stability in Scyllac devices, review of, (T), 25:38481 (CONF-710607-117)
stability in self-constricted pinch discharges, sausage, (T), 25:36173
stability in shallow magnetic wells as in DECA II B, MHD criteria for, (T), 25:56194 (EUR-CEA-FC-598)
stability in sheared field devices, maximal ordering of, 21:20988 (MATT-Q-23, pp 181-320)
stability in sheared magnetic fields, (T), 23:14820
stability in short magnetic mirrors, bounce effects in negative mass, (T), 25:30551
stability in short magnetic mirrors, ion cyclotron, (T), 23:36714
stability in skin layer of collisional, (T), 22:9403
stability in slow theta pinch, end effects in, (E), 22:7331
stability in solar magnetic fields, (T), 21:41707(T) (NASA-TT-F-455, pp 71-7)
stability in solar wind, thermal anisotropies associated with, 21:13439
stability in ST Tokamak, (E), 25:38470 (CONF-710607-78)
stability in steady-state fusion reactors, thermal, (T), 25: 36178
stability in stellarator-type magnetic fields, (T), 21:18777

stability in stellarators, effect of current-carrying rings on, (T), 24:3394
stability in stellarators, hydromagnetic, (T), 24:12839
stability in stellarators, resistive interchange and ballooning modes of, (T), 22:24357 (MATT-Q-25, pp 223-38)
stability in stellerator, loss-cone, (T), 21:27208(T) (NP-tr-1530)
stability in straight two-turn field with helical symmetry, (T), 23:32449
stability in strong alternating electric fields, frequency spectra of, 24:24013
stability in strong electric fields, (E), 23:18682
stability in strong electric fields, nonlinear stage of hydromagnetic current, (T), 25:43386(T) (ORNL-tr-2434)
stability in strong hf fields, 21:9629
stability in strong hf fields, ion-cyclotron, 21:44133
stability in strong high-frequency electric field, (E), 23:32455
stability in strongly nonuniform magnetic field, (T), 25:3122
stability in Table Top IV machine, radiations from, 21:46306 (UCRL-50002-67, pp 7-58)
stability in Taylor minimum-B configurations, low-frequency loss-cone, (T), 21:25167
stability in theta pinch, parametric excitation of screw, (T), 25:1228
stability in time-dependent magnetic fields, electrostatic, (T), 23:25373
stability in Tokamak and screw pinches, toroidal contributions to shear and kink instabilities, (T), 25:43390
stability in Tokamak configurations, dissipative drift modes, (T), 25:38475 (CONF-710607-86)
stability in Tokamak devices with temperature gradients, (T), 23:23164 (IPP-3/84)
stability in Tokamak devices, (T), 24:3388 (ORNL-TM-2766)
stability in tokamak devices, effect of detrapping on trapped-particle, (T), 25:47571
stability in Tokamak devices, hydromagnetic, 22:36954
stability in Tokamak devices, macroscopic, (E), 25:38469 (CONF-710607-76)
stability in Tokamak devices, nature of large-scale, (E), 25:52841
stability in Tokamak devices, research on, 24:47268(R) (ORO-3458-9)
stability in Tokamak devices, resistive equilibrium model for, 25:33300
stability in tokamak devices, trapped-particle, (T), 25:56195 (JAERI-Memo-4483)
stability in Tokamak discharges, (T), 25:5117
stability in Tokamak-3, correlation method for studying, 24:45267(T) (ORNL-tr-2352)
stability in Tokamak-3, for large β, (E/T), 25:1225
stability in tokamaks, collisional effects on dissipative, (T), 25:59060 (CEA-CONF-1800)
stability in Tokamaks, nonlinear kink and tearing mode in, (T), 25:38476 (CONF-710607-87)
stability in tokamaks, review of, 25:56198
stability in torodial magnetic fields, hydromagnetic, (T), 21:44137
stability in toroidal configurations, growth rate of kink, (T), 25:9492
stability in toroidal devices, radial dependence of trapped-particle, (T), 25:43391
stability in toroidal fields, theory for, 21:29295(T) (CLM-Trans-11)
stability in toroidal geometries, magnetohydrostatic boundary value problem for, (T), 24:5178 (IPP-6/75)
stability in toroidal geometries, velocity space, (T), 21:25166 (TID-23813)
stability in toroidal geometry, flute, 21:16953
stability in toroidal magnetic fields, 21:9631
stability in toroidal magnetic fields, electric field effects on, 21:40040
stability in toroidal magnetic fields, magnetohydrodynamic, (T), 22:17710
stability in toroidal magnetic fields, quasilinear approximation for stochastic, (T), 23:16831(T) (MATT-Trans-63)
stability in toroidal magnetic systems, 21:33487
stability in toroidal magnetic systems, (T), 25:40664 (JAERI-13759)
stability in toroidal magnetic traps, (T), 21:29306
stability in toroidal quadrupole and octupole configurations, (E), 22:36956
stability in toroidal screw pinch ISAR IV, (E), 25:9489
stability in toroidal screw pinch, resistive, (E), 25:36168
stability in toroidal systems, balloon mode of, (T), 22:22191
stability in toroidal systems, critical-β, (T), 23:39498
stability in toroidal systems, drift, 23:3530
stability in toroidal systems, trapped-particle effects on drift-wave, (T), 25:9490
stability in toroidal systems, trapped-particle, (T), 23:36722
stability in toroidal theta pinch, linear experiments on, (E), 23:32462
stability in tubular sheet pinch, tearing, (E/T), 23:48923
stability in uhf electromagnetic fields, 21:31472
stability in uniform magnetic fields, turbulence induced electron—ion cross field streaming, (T), 25:40670
stability in uniform magnetic fields, velocity-shear and low-frequency, (T), 25:9496
stability in uniform magnetic fields, velocity-space, 24:47270
stability in uniformly rotating cylindrical, drift, (T), 23:14824
stability in vicinity of magnetic axis, criterion for hydromagnetic, (T), 24:37483
stability in waveguides in magnetic fields, finite-amplitude, (E/T), 24:49115
stability in zeta device, properties of, (E/T), 23:32479
stability in, critical-current thresholds of beam, (E), 22:48139
stability inside finite conducting walls, (T), 25:40672
stability integrals for linear multipole configurations, 23:5440
stability kinetics of, boundary interaction effects on, (T), 24:8480
stability limitations for stellarators with sharp surfaces, (T), 23:23169
stability limits for finite-pressure, in toroidal systems, (T), 25:22545
stability near harmonics of electron gyrofrequency, combination microwave scattering study of, (E), 21:31471
stability near ion frequency, in beam—plasma system, (E/T), 24:40063
stability of accelerated shell of, in magnetic fields, (T), 25:30547
stability of adiabatically confined hot electron, anisotropic, (E/T), 23:10691
stability of afterglow, drift dissipative, (E), 24:28326
stability of afterglow, drift-dissipative, (E), 25:17197
stability of alkali-metal, finite ion Larmor radius and ion collisional effects on drift wave, 22:44188 (MATT-619)
stability of ambipolar diffusion layer, in magnetic fields, (T), 23:46498
stability of anisotropic collisionless unmagnetized, strong stabilizing effect in, (T), 24:35468
stability of anisotropic hydrogen, transverse wave, (T), 21:7295
stability of anisotropic pressure, dispersion equation for magnetohydrodynamic, 25:25178
stability of anisotropic pressure, quasi-hydrodynamic theory for, 23:10687
stability of anisotropic relativistic, in magnetic field, (T), 23:12882
stability of anisotropic, cyclotron wave, (T), 24:37486
stability of anisotropic, effect of Hall current on, (T), 24:17967
stability of anisotropic, effect of self-gravitation or finite ion mass on, (T), 25:16691
stability of anisotropic, nonlinear oscillations from hose, (T), 24:45269
stability of anisotropic, one-dimensional nonlinear model of, (T), 23:30572
stability of anisotropic, quasi-linear dynamics of ion cyclotron, (T), 25:11915
stability of anisotropic, research on, (E/T), 25:45493(R) (COO-1695-34)
stability of anisotropic, temperature, (T), 22:41631
stability of anisotropic, with magnetic shear, slipping stream, (T), 23:12881
stability of arc discharge, electric field effects on, (E/T), 21:3905
stability of arc discharge, in magnetic fields, (E/T), 21:3904
stability of argon discharge, acoustic kink, 21:29297
stability of axially symmetric, with finite ion Larmor radius, flute, (T), 23:12888
stability of axisymmetric, magnetohydrodynamic, (T), 25:38474 (CONF-710607-85)
stability of beam—plasma discharge, nonlinear limitation of two-stream, (E), 25:22508
stability of beam—plasma system, (E), 24:23966
stability of beam—plasma system, collisional damping of hf, (E), 24:28280
stability of beam—plasma system, flute, (T), 24:35463
stability of beam—plasma system, nonlinear, (T), 23:46493 (CEA-CONF-1308)
stability of beam—plasma system, nonlinear, (T), 23:48928
stability of beam—plasma system, two-stream, (T), 23:51694
stability of beam—plasma systems, effects of pair scattering on, (T), 23:51703
stability of beam—plasma systems, temporal and spatial growth of oscillations from, (T), 24:35430
stability of Bennett pinch, hydromagnetic, (T), 25:27748
stability of bounded, one-dimensional inhomogeneous, collisionless, based on Vlasov and Poisson equations, (T), 23:8500
stability of bounded, periodic pulling and turbulence in, (E/T), 23:14826
stability of bounded, theory for two-stream instability in spherical geometry, 25:14339
stability of bulged theta pinch, hydromagnetic, (E/T), 24:51705
stability of bumpy theta-pinch, MHD, 21:35202 (IPP-6/57)
stability of cesium in minimum-B fields, helical, 22:1270(R) (ORO-2454-9)
stability of cesium, electron heating effects on, (E), 21:16954
stability of cesium, velocity-space, (E), 23:18673 (AD-673512)
stability of cesium-seeded argon or mercury, effects in MHD converters of, (T), 22:5179(T) (CEA-tr-R-1901)
stability of charged layers in cold, diocotron, (T), 24:3398
stability of circumsolar, (E), 24:25907
stability of closed geometries, magnetohydrodynamic, (T), 24:40100 (AD-704621)
stability of cold and warm electron beams in, effect of collisions on, (E/T), 25:9494
stability of cold magnetized, with intense azimuthal streams and radially dependent density, (T), 24:8479
stability of cold, under magnetoelectric confinement, 25:19714
stability of colliding streams of, resonance model for, 24:42713
stability of collision-dominated helium thermal column, (T), 21:29298
stability of collisional finite-pressure, with temperature inhomogeneities, (T), 25:49918
stability of collisional, drift wave, (E/T), 25:27729
stability of collisional, in curved magnetic fields, (T), 24:3399
stability of collisional, shear stabilization calculations for, 21:27212
stability of collisional, universal drift, (T), 25:27747
stability of collisionless high beta, in steady shocks, (T), 23:42289(R) (NYO-3782-3)
stability of collisionless low-β, effects of temperature gradients and resonances on, (T), 24:49181
stability of collisionless magneto-, with ion temperature gradients, (T), 22:29529
stability of collisionless magnetosphere-tail, analysis,(T), 24:35465
stability of collisionless one-dimensional, trapped-particle, (T), 25:36180
stability of collisionless, cross-stream hydromagnetic—electrostatic, (T), 22:36955
stability of collisionless, cross-stream, (T), 24:15345
stability of collisionless, dispersion relations for drift-wave, (T), 25:7398 (EUR-CEA-FC-565)
stability of collisionless, drift, (E), 25:14345
stability of collisionless, in closed multipole fields, drift wave, (T), 22:24364
stability of collisionless, in high-frequency E-wave field, drift, 23:8638
stability of collisionless, including finite ion Larmor radius and finite β effects, (T), 23:12877
stability of collisionless, loss-cone modes, 24:45262(R) (COO-2081-1(Rev.))
stability of collisionless, numerical simulation of Weibel, 24:42706 (LA-4482)
stability of collisionless, relation of thermodynamical and dynamical, (T), 23:16834
stability of collisionless, transverse electromagnetic, (T), 25:19722
stability of collisionless, transverse, (T), 24:3396
stability of collisionless, with magnetic shear, (E/T), 24:26232
stability of column of, in Tokamak TM-3 by correlation techniques, (E/T), 25:17204
stability of column, effect of geometry on current-convective, (E), 23:25372
stability of column, formation of axisymmetric bulged region in, (E/T), 25:19709
stability of confined hot electron, (E/T), 23:16829 (CEA-CONF-1006)
stability of confined hot un-neutralized electron, (E), 25:25133
stability of confined, effects of finite beta on, (T), 23:46492 (CEA-CONF-1307)
stability of constricted-discharge hydrogen, (E), 23:51606
stability of contrastreaming, effect of Coulomb collisions on, 21:46379 (N-67-18712)
stability of cosmic, growth rate of relativistic fire-hose, (T), 23:48760
stability of counter-streaming, electromagnetic, (T), 25:14342
stability of counterstreaming electron—ion, linearly polarized mode in, (T), 24:35466
stability of counterstreaming ion beams, heating by two-stream instabilities in external magnetic fields, (T), 25:27672
stability of counterstreaming, electromagnetic, (T), 25:9493
stability of counterstreaming, electrostatic ion cyclotron, (T), 25:5128
stability of counterstreaming, ordinary-mode electromagnetic, (T), 25:5129
stability of cross-field, irregularities in ionosphere due to, (E), 22:36824
stability of current-carrying cold, Kelvin, 21:29311
stability of current-carrying column in strong longitudinal magnetic fields, hydromagnetic, (T), 24:6551(T) (NP-tr-1863)
stability of current-carrying inhomogeneous, lf hydrodynamic, (T), 24:1445
stability of current-carrying pinch in strong longitudinal magnetic field, 24:49187
stability of current-carrying toroidal confined, collective modes in, (T), 25:38471 (CONF-710607-80)
stability of current-carrying, (T), 22:5387(T) (UCRL-Trans-10147)
stability of current-carrying, effect of hf field on ion—acoustic, (T), 25:3125
stability of current-carrying, electron cyclotron drift in normal magnetic fields, (T), 24:47263 (LA-4487)
stability of current-carrying, flute, 24:37482
stability of current-carrying, in linear tubular discharge with solid core, 21:29308
stability of current-carrying, in magnetic fields, (T), 25:33338
stability of current-carrying, ion-wave instabilities and anomalous resistivity in, (T), 24:40118
stability of current-carrying, overstable modes due to resistivity gradients in, 22:34718 (AD-665421)
stability of current-carrying, overstable modes due to resistivity gradients in, (T), 22:41632
stability of current-carrying, overstable modes due to resistivity gradients in, (T), 23:25369 (AD-679110)
stability of current-carrying, with zero-order density gradients, (T), 21:9625
stability of cylindrical, effect of diffusion distribution on, 22:50207
stability of cylindrical, in traveling wave considering Hall currents, 24:47271
stability of cylindrical, ion cyclotron, (T), 25:3124
stability of dense confined, dissipative, 23:51687
stability of dense equilibrium, thermodynamic, (T), 24:17958
stability of dense plasma focus, (E), 23:23166 (LA-4088)
stability of dense, dissipative trapped-particle, 24:3389(T) (UCRL-Trans-10378)
stability of dense, effects of stationary electric field on cyclotron, (T), 25:3120
stability of dense, in magnetic confinement devices, (T), 23:25376
stability of dense, variational calculations for, 22:39139 (MIAPH-PL-68.3)

stability of differentially rotating, gravitational, (T), 21:29307
stability of diffuse screw pinch, magnetohydrodynamic, 24:35461
stability of dilute and dense, drift, (E/T), 22:50210
stability of discharge, ion—acoustic wave, 21:29312
stability of discharge, ion—wave, (T), 21:7214 (TID-23459, pp 37-58)
stability of disturbed zone in vicinity of body in, (T), 21:46249
stability of double-stream, with Coulomb collisions, (T), 25:36174
stability of drift waves in sheared fields, eikonal equations for, 25:52869
stability of drift waves in varying magnetic fields, (T), 25:49941
stability of drifted electron, negative absorption due to collisions in, (T), 23:10689
stability of electron beam, at harmonics electron cyclotron half-frequency, 23:34459
stability of electron cyclotron heated, interchange, 21:42148
stability of electron cyclotron resonance excited, (E/T), 23:42334(R) (COO-1695-19)
stability of electron cyclotron resonance excited, (E/T), 23:48944(R) (COO-1695-24)
stability of electron cyclotron resonance heated, (E/T), 23:10683 (COO-1695-14)
stability of electron cyclotron resonance, electromagnetic, (E), 24:15344
stability of electron cyclotron resonance-heated, (E/T), 24:8490(R) (COO-1695-25)
stability of electron cyclotron waves in, (T), 23:36720
stability of electron cyclotron-heated, research on, 21:44126(R) (COO-1695-4)
stability of electron gas in magnetic field, Vlasov description of, (T), 23:25371
stability of electron plasma and injected-beam system, (T), 23:39497
stability of electron, in time-dependent electric field, 21:20994
stability of electron, in toroidal geometries, (E/T), 24:51602 (AD-706401)
stability of electron, zero frequency Harris, (T), 21:2277
stability of electron-beam produced, in uniform magnetic fields, (E/T), 21:2279
stability of electron-cyclotron-heated, (E), 23:27644(R) (COO-1695-15)
stability of electron-cyclotron-heated, in adiabatic trap, (E), 23:44447 (CONF-680113-(Vol.5), pp 85-106)
stability of electron-cyclotron-heated, interchange, 21:37503 (TID-23947)
stability of electron-cyclotron-resonance-heated, (E/T), 24:30351(R) (COO-1695-26)
stability of electron-cyclotron-resonance-heated, research on, 22:39138(R) (COO-1695-10)
stability of elliposoidal, in traveling electromagnetic fields, (t), 25:43392
stability of entropy waves in finite-pressure, effects of gyro-relaxation on, (T), 24:49212
stability of equilibrium collisionless, energy criteria for, (T), 24:40104
stability of excited, wave modes in, (T), 23:48943 (CEA-R-3862)
stability of exploding or imploding cylindrical shell in magnetic field, analysis, 23:14670
stability of finite and high-pressure, with finite electron thermal conductivity, (T), 25:30546
stability of finite beta toroidal, hydromagnetic equilibrium, 22:1266 (LA-3770, Paper B2)
stability of finite β, macroscopic theory for, 21:13612
stability of finite length, electrostatic, (T), 21:25162 (CEA-R-3156)
stability of finite length, flute, 21:7291 (CEA-R-3089)
stability of finite magneto-, dispersion relations for, 21:37508
stability of finite mirror-confined, ion cyclotron, (T), 25:14348
stability of finite pressure, drift wave effects on, (T), 21:5310
stability of finite pressure, in homogeneous magnetic fields, (T), 25:47566
stability of finite systems of, (T), 22:52831 (CONF-671127, pp 408-72)
stability of finite thermal conductivity, current, (T), 25:1227
stability of finite-beta, in toroidal multipoles, (T), 25:45497
stability of finite-β mirror-confined, ion cyclotron harmonic, (T), 25:40666
stability of finite-β, linear and toroidal magnetohydrodynamic equilibria, (T), 24:19906 (IPP-6/77)
stability of finite-conductivity discharge, constrictions in, (T), 23:25370
stability of finite-length, electrostatic, 21:29310
stability of finite-length, electrostatic, (T), 21:25164 (EUR-CEA-FC-404)
stability of finite-length, electrostatic, (T), 21:25163 (EUR-CEA-FC-392)
stability of finite-length, Harris modes in, (E), 24:40109
stability of finite-pressure, with anisotropic electron velocity distribution, 24:28316
stability of finite-pressure, with trapped particles, (T), 25:17194
stability of finitely conducting rotating, finite Larmor radius effects on gravitational, 23:14828
stability of flowing, Kelvin—Helmholtz, (T), 23:23167 (LA-4107)
stability of flute disturbances in cylinder of rarefied, in hf electromagnetic fields, (T), 23:16833
stability of free, drift modes of, (T), 24:21813
stability of fully ionized inhomogeneous, effect of velocity space diffusion on universal, (T), 25:19719
stability of fully ionized non-Maxwellian, (T), 21:5313
stability of fully ionized, Boltzmann equation solution for, 21:25154
stability of galactic cosmic-ray gas, isotropy of, (T), 23:44132
stability of gravitating streams in interstellar, 21:3584
stability of grossly nonneutral, ion resonance, (T), 24:8482
stability of guiding center, 22:11477 (ORNL-TM-2025)
stability of guiding-center, (T), 22:50209
stability of guiding-center, in sheared magnetic fields, 21:42136
stability of Hall, Rayleigh—Taylor, (T), 23:12880
stability of helium afterglow, lf drift, (E), 24:35447
stability of helium and hydrogen in oscillating PIG discharges, drift, 21:44134
stability of helium arc magneto-, low-frequency, 22:41634
stability of helium positive column, helical modes of, (T), 25:47569
stability of helium positive column, nonlinear theory for spiral, (T), 24:49184
stability of hf beam—plasma system, (T), 24:1406 (SU-IPR-327)
stability of hf discharge, critical fields and structure of ion-acoustic, (E/T), 23:51696
stability of hf discharge, in magnetic field, (T), 21:7299
stability of hf discharges, in magnetic fields, (E), 24:1442
stability of hf oscillations in arbitrary configurations, (T), 24:28306 (AD-701401)
stability of high β, in helically symmetric theta pinch, (T), 25:9498
stability of high-beta collisionless, effect of temperature gradient on drift, (T), 25:47572
stability of high-beta relativistic electron, in axisymmetric and non-axisymmetric magnetic mirrors, (E), 25:38477 (CONF-710607-91)
stability of high-beta theta-pinch, z-dependent marginal, 22:1267 (LA-3770, Paper B7)
stability of high-beta, magnetohydrodynamic, (E/T), 25:27730
stability of high-beta, thin-skinned, toroidal, calculation of, 22:7329 (LA-3749)
stability of high-β inhomogeneous, with weak pressure gradient, (T), 25:36176
stability of high-β plasmoids, global, (T), 24:32851
stability of high-β theta pinch, collisionless tearing mode, (T), 23:23175
stability of high-β, compressional drift mode of, (T), 25:40677
stability of high-β, ordinary mode electromagnetic, (T), 24:26227
stability of high-current discharge in dense optically transparent, equilibrium and, (T), 23:12799
stability of high-frequency resonant, (E), 25:59063 (NP-19031)
stability of high-frequency, (E), 22:9406
stability of high-pressure, in dense blanket of neutral gas, (T), 25:27744
stability of high-temperature, (E/T), 21:5309 (UCRL-70049)
stability of high-temperature, convective and absolute two-stream, (T), 24:3384 (INR-P-1056)
stability of high-temperature, with isotropic distribution functions in a magnetic field, 22:11480
stability of highly ionized column of, drift wave, 22:1277
stability of homogeneous, anisotropic velocity distribution function for micro-, (T), 21:9619 (CEA-R-3074)
stability of homogeneous, beam cyclotron, (T), 25:36167
stability of homogeneous, between two parallel surfaces, 25:40682
stability of homogeneous, in currents, (T), 24:10568
stability of hot electron in quadrupole mirror machines, cyclotron, (E/T), 22:17707
stability of hot electron, density thresholds for onset of anisotropy and loss-cone, (T), 25:19708
stability of hot electron, gravity driven, 21:20988 (MATT-Q-23, pp 181-320)
stability of hot electron, interchange, (E/T), 21:7297
stability of hot, classification of two-stream instability into absolute and convective, (T), 24:19905 (INR-P-1132)
stability of hot, classification of two-stream, (T), 25:19710
stability of hot, convective and absolute two-stream, (T), 23:27648
stability of hot, growing wave criteria for, (T), 21:31469
stability of hot, two-stream, (T), 25:40662 (INR-1261)
stability of hot-electron in Bille-en-Tete experiment, (E), 23:32464
stability of hot-electron mirror-confined, (E/T), 25:14349
stability of hot-electron, distribution functions for, (T), 24:42726(R) (UCB-34-P-128-12)
stability of hot-electron, micro-, (T), 23:34429 (ORNL-4401, pp 1-24)
stability of hot-ion, threshold density for ion-cyclotron, 22:3139
stability of hydrogen discharge, with oscillating electrons, drift-dissipative, (E/T), 23:51667
stability of impure, drift, (T), 23:10684
stability of incompressible cylindrical, in monotonic fields, (T), 25:14346
stability of incompressible magneto-, combined Taylor and Helmholtz, (T), 21:23230
stability of incompressible sheet, overstable modes due to resistivity gradient, (T), 23:44445 (AD-688887)
stability of inhomogeneous beam—plasma system, (T), 24:17961
stability of inhomogeneous collisional and collisionless, (T), 25:40663 (JAERI-13758)
stability of inhomogeneous confined, collisionless, (T), 25:25132
stability of inhomogeneous finite-β, ion cyclotron drift, (T), 25:59070
stability of inhomogeneous hot electron, short-wave, (T), 25:47567
stability of inhomogeneous hot flowing, 23:3525 (NP-17656)
stability of inhomogeneous hot, kinetic theory of, (T), 23:39494(T) (AEC-tr-7053)
stability of inhomogeneous magnetized, effect of hf electromagnetic field on, (T), 25:1223
stability of inhomogeneous two-stream, Lyapunov, (T), 25:5108
stability of inhomogeneous weakly ionized, collisional drift, (E/T), 24:21819
stability of inhomogeneous, (T), 23:18674(R) (COO-1478-5)
stability of inhomogeneous, electron beam analysis of, (T), 23:48919 (D-1-82-876)
stability of inhomogeneous, from hollow ion beams, (E), 24:35448
stability of inhomogeneous, Galerkin theory for, 21:7294
stability of inhomogeneous, high-frequency electrostatic, (T), 23:46491 (CEA-CONF-1305)
stability of inhomogeneous, in crossed electric and magnetic fields, low-frequency, 21:31466 (IPPCZ-50)
stability of inhomogeneous, in crossed electric and magnetic fields, 21:42141
stability of inhomogeneous, in crossed electrical and magnetic fields, (T), 21:11672
stability of inhomogeneous, in homogeneous magnetic fields, (T), 25:1234
stability of inhomogeneous, in presence of pulse disturbances, (T), 23:42338 (UCRL-71644)
stability of inhomogeneous, ion cyclotron, 22:1278
stability of inhomogeneous, micro-, (T), 21:15193(R) (COO-1478-2)
stability of inhomogeneous, microinstabilities, (T), 24:17953(R) (COO-1478-6)
stability of inhomogeneous, nonlinear, (T), 23:16830 (CEA-CONF-1008)
stability of inhomogeneous, oscillation modes from current, 21:13614
stability of inhomogeneous, parametric, (T), 25:3118
stability of inhomogeneous, parametric, (T), 25:47568
stability of inhomogeneous, properties of, 21:33479 (CONF-670104-Pt.1, pp 129-36)
stability of inhomogeneous, quasilinear relaxation dynamics for, 21:15200
stability of injected collisionless, in longitudinal magnetic fields, (T), 21:27209
stability of intense quasi-static, in magnetic fields, (E), 25:1224
stability of ion and electron currents in low-pressure discharge in transverse magnetic field, (E), 23:5441
stability of ion beam—plasma system, two-stream, (E/T), 24:10519
stability of ion beam-produced, ion cyclotron, (E), 25:52840 (IAE-2044)
stability of ion-cyclotron heated, electron and ion temperature effects on, (T), 21:46382
stability of large-amplitude electrostatic wave in collisionless, (T), 25:22542
stability of laser-irradiated homogeneous, for electric fields near plasma frequency, (T), 25:33295 (LA-4604)
stability of linear pinch, tearing-mode, (T), 25:27751
stability of lithium arc, collisional drift, (T), 25:40678
stability of loss-cone, effect of electron temperature on, 22:41633
stability of low density, complete spectrum of flute, (T), 22:3130 (IPPCZ-73)
stability of low-beta, nonlinear computer model for interchange, 22:3142
stability of low-β fully ionized, absolute and convective microinstabilities, (T), 24:10561 (N-70-10027)
stability of low-β, effects of transverse anisotropy on magnetic flute modes, (T), 23:36716
stability of low-density pinches, wave kinetics in, 25:1233
stability of low-frequency waves in, quasilinear theory of ion beam, 21:13615
stability of low-temperature magnetized, ionization, (T), 25:1220(T) (AD-707116)
stability of magnetic mirror-confined, dissipative effects on flute, 22:5389
stability of magnetically confined electron gas, characteristic, (T), 24:37484
stability of magnetically confined, effects of radial electric fields on, (T), 24:42711
stability of magnetically confined, variation calculations of, (E/T), 22:17701 (MIAPH-PL-67.10)
stability of magnetized column, Kelvin—Helmholtz, (E/T), 25:43395
stability of magnetized in positive column, screw, (E/T), 24:17955
stability of magnetized self-gravitating collisionless, (T), 23:12885
stability of magnetized, in hf electric fields, (T), 24:37489
stability of magnetized, in strong hf fields, (T), 24:1448
stability of magnetized, nonlinear electrostatic, (T), 25:1221 (CEA-CONF-1615)
stability of magneto-, effect of temperature gradient on, 21:29302
stability of magneto-, flute, (T), 24:17957
stability of magneto-, gravitation effects on, 21:809
stability of magneto-, low-frequency streaming, (T), 25:25135
stability of magneto-, low-frequency, (T), 21:44135
stability of magneto-, nonlinear limit of drift, 22:1275
stability of magneto-, particle analysis of drift, (T), 21:11669 (IPPJ-53)
stability of magneto-, with imperfect boundaries, 21:9635
stability of magneto-current-convective, (T), 22:13523
stability of magnetoactive, with monoenergetic component, 23:8640
stability of magnetospheric, (T), 23:30448
stability of magnetospheric, relation to whistler-mode turbulence, 23:51523
stability of mercury-discharge, drift, (T), 21:5312

stability of MHD nonequilibrium, boundary effects in linear development of electrothermal, (T), 25:3127
stability of MHD sheet flow, dissipative, (T), 24:6549 (AD-693405)
stability of microwave-heated, (T), 25:27743
stability of microwave-heated, in magnetic mirrors, (E), 23:8636
stability of microwave-heated, in magnetic mirrors, (E/T), 23:32454
stability of mirror-confined in C stellarator, ion-cyclotron, (E), 22:24242 (MATT-Q-25, pp 30-117)
stability of mirror-confined inhomogeneous, electrostatic oscillations in, (T), 24:49183
stability of mirror-confined potassium, flute, (E/T), 22:3141
stability of mirror-confined, loss-cone, 21:11593 (UCRL-50002-66-1, pp 5-59)
stability of mixed argon—zinc, electron and ion composition for, 21:18775
stability of monochromatic waves in, (T), 24:12840
stability of multi-component, high-frequency flutelike, (T), 25:5110
stability of multicomponent hot electron, electrostatic, (T), 24:45264 (ORNL-4545, pp 9-37)
stability of multicomponent, electrostatic, (T), 25:9500
stability of multicomponent, flutelike gyroharmonic, (T), 23:34429 (ORNL-4401, pp 1-24)
stability of multicomponent, high-frequency flute, (T), 22:24362
stability of multicomponent, high-frequency flutelike, (T), 21:44020 (ORNL-4150, pp 1-35)
stability of multicomponent, modes of, (T), 22:13515 (UCRL-70665)
stability of multipole machine, effect of toroidal magnetic field on, 22:39142
stability of negative wave interactions in, explosive, (T), 24:6569
stability of neutral sheet of, (T), 22:34724
stability of non-Maxwellian, drift, (E), 23:32452
stability of non-neutral, two-rotating-stream, (T), 25:40669
stability of nonhomogeneously magnetized, current layer, (T), 21:40038(T) (AD-644037)
stability of nonisothermal magnetized, Kelvin—Helmholtz, (T), 25:47562
stability of nonisothermal, collisional drift, (E), 21:15195 (MATT-507)
stability of nonisothermal, nonlinear theory of current, 21:9630
stability of nonstationary, (T), 22:20032
stability of nonuniform guiding-center, exponential, (T), 21:33493
stability of nonuniform magnetized, effects of boundary conditions on, (T), 23:23179
stability of nonuniform, electron temperature, (T), 22:3135
stability of nonuniform, in boundary near confining magnetic field, (T), 24:47264 (NYO-3782-4, App.6)
stability of nonuniform, in electric dc fields, (T), 22:17712
stability of Ohmic, general theory for resistive beam, 21:27210
stability of one-dimensional inhomogeneous finite, electrostatic marginal, 24:42708
stability of one-dimensional self-gravitating, approach to equilibrium, (T), 23:30569
stability of one-dimensional, two-stream, 22:44189 (MATT-623)
stability of oscillating discharge, nonlinear effects of, (T), 21:15210
stability of partially ionized magneto-, nonlinear theory of collision-induced, 23:8635
stability of partially ionized, at optical frequencies, 21:5311
stability of partially ionized, critical condition for electrothermal, (T), 24:28323
stability of partially ionized, for arbitrary collision cross sections, (T), 23:20942
stability of partially ionized, ionization—recombination, 23:51699
stability of partially ionized, linear theory of collision-induced, 21:37504
stability of pinch, Bessel function model for tearing-mode, (T), 23:25377
stability of plasma cells, onset of stationary convective, 24:15341
stability of plasma diode, linear, (T), 23:51697
stability of plasmoids in corrugated magnetic fields, (E), 21:3901
stability of plasmoids in longitudinal magnetic guide fields, diffusion broadening of, 25:22548
stability of positive column in crossed fields, helical, 21:40045
stability of positive column in magnetic fields, helical, (E), 23:18681
stability of positive column magneto, helical, (E/T), 23:27649
stability of positive column, effect of ionized oscillations on interchange, (T), 24:28325
stability of positive column, in longitudinal magnetic fields, (T), 23:44452
stability of positive column, longitudinal magnetic field effects on helical, (E), 21:16957
stability of positive column, modes of screw, 22:5388
stability of positive column, nonlinear theory of spiral, 25:14347
stability of positive column, perturbation density from helical, (E), 22:26437
stability of positive column, properties of, 22:29477(R) (SU-IPR-224)
stability of positive column, quasi-neutral screw, (T), 23:10688
stability of positive column, research on, 21:29224(R) (SU-IPR-145)
stability of positive column, research on, (E/T), 21:3897(R) (SU-IPR-106)
stability of potassium in Q device, current, 21:33480 (CONF-670104-Pt.1, pp 137-43)
stability of potassium in Q machines, electric field effects on, 21:18762 (UCRL-70115)
stability of potassium, in presence of electric currents, 21:7293(T) (UCRL-Trans-10067)
stability of pure electron, in cylindrical geometry, (T), 23:20934(R) (N-68-36689)
stability of Q devices, photography of flute, 22:44196
stability of quiescent, from interacting waves in, 24:40153
stability of rarefied noncompensated, flute, (T), 23:51701
stability of rarefied, in Q devices, (T), 24:26229
stability of rarefied, nonlinear analysis of flute, (T), 24:28310
stability of rarefied, suppression of cyclotron by feedback systems, 23:1497
stability of relativistic anisotropic, to perpendicular magnetosonic waves, (T), 25:19712
stability of relativistic, gardenhose, (T), 22:22192
stability of resistive column of, universal modes of, 21:33486
stability of resistive sheet pinch, (T), 23:48929
stability of rf discharge, ion-acoustic, 21:15198
stability of ring configurations in magnetic mirrors, flute, (T), 24:40114
stability of rotating anisotropic, gravitational, 21:42138
stability of rotating anisotropic, with Hall effect, 24:28319
stability of rotating hydrogen arc in axial magnetic field, Rayleigh—Taylor, (T), 24:28324
stability of rotating hydrogen arc, Rayleigh—Taylor, (E), 23:42335 (IPP-3/83)
stability of rotating hydrogen arc, Rayleigh—Taylor, (E), 23:51698
stability of rotating magnetized, guiding-center approximation for gravitational, (T), 25:49915
stability of rotating streaming, Kelvin—Helmholtz, 25:17196
stability of rotating theta pinch, finite Larmor radius equations for, 25:9497
stability of rotating theta-pinch, (T), 23:18677
stability of rotating theta-pinch, kink, (T), 24:10569
stability of rotating theta-pinch, $m = 1$ mode, (T), 24:21815
stability of rotating transverse Kelvin—Helmholtz, (E/T), 23:48927
stability of rotating, (T), 24:15334
stability of rotating, cyclotron resonance, (T), 25:17199
stability of rotating, effect of ion Larmor radius on Rayleigh—Taylor, 24:35467
stability of rotating, equations for, 21:9620
stability of rotating, excitation of Kelvin—Helmholtz, 21:9627
stability of rotating, gravitational, 21:40046
stability of rotating, gravitational, (E), 23:20938
stability of rotating, surrounded by neutral gas, (T), 23:32473
stability of rotating, two-fluid theory for flute, (T), 23:23168 (RISO-187)
stability of screw pinch, (T), 23:51700
stability of screw-pinch, effects of force-free fields on, (T), 25:19706
stability of screw-pinch, with Hall current, (T), 25:27732
stability of Scyllac toroidal theta-pinch, (E/T), 23:14739(R) (LA-4075)
stability of self-gravitating cylindrical, including Hall effect, (T), 21:18764
stability of self-gravitating layers of, Hall effect in, (T), 25:22323
stability of self-pinched symmetric beam of, general theory of, 21:23223 (AD-643355)
stability of semi-infinite plane slab, kink and tearing-mode, (T), 25:59068
stability of semiconductor, in crossed electric and magnetic fields, (T), 21:2275
stability of sharp boundary toroidal, magnetohydrodynamic, (T), 25:40673
stability of sharp screw pinch, (T), 24:15336
stability of sheaths of, in magnetic fields, (T), 22:31881
stability of sheet pinch in, finite-resistivity, 21:44131
stability of sheet pinch, resistive, (T), 25:33309
stability of sheet, trapped-particle, (T), 24:51706
stability of simulated, explosive, (T), 25:27736
stability of solar coronal, radio evidence of, (T), 23:51277
stability of solar, effects on origin of x-ray flares, 23:51276
stability of solar, relation to sunspots and photospheric convection, 23:51279
stability of stationary, effect of electric conductivity on magnetohydrodynamic, (T), 23:32451
stability of steady finite-amplitude convection in rotating fluid layers, 24:51695 (IPP-6/86)
stability of steady state, in uniform electric field, (T), 21:27219
stability of stratified anisotropic, internal gravitational, 22:3134
stability of stratified cesium, Kelvin—Helmholtz, 21:20943 (MATT-Q-23, pp 91-179)
stability of stratified, growth rate of Kelvin—Helmholtz, (T), 23:34443 (AD-683352)
stability of stream—plasma system, radiative, (T), 23:36711
stability of streaming collisional, transverse, 24:51702
stability of streaming compressible, surrounded by nonconducting gas, (T), 23:44450
stability of streaming relativistic, in uniform ambient magnetic field, 24:8362
stability of streaming relativistic, superluminous waves in, (T), 25:5107
stability of streaming, in parallel uniform magnetic fields, (T), 25:56202
stability of strong-current discharge in dense optically transparent, (T), 22:44191 (NP-17573)
stability of strongly inhomogeneous, 22:47884
stability of strongly interacting, thermodynamic, 23:3528
stability of superposed, effect of finite ion Larmor radius on, (T), 21:23226
stability of synthesis, 22:44193
stability of Taylor minimum-B low-frequency, (T), 21:2278
stability of tenuous crossed-field, in magnetic mirrors, (E), 21:33494
stability of thermal, diffusion processes from micro, (E/T), 22:24367
stability of thermally anisotropic, ion-cyclotron, (T), 23:18679
stability of thermally ionized, properties of, 22:3131(T) (UCRL-Trans-10142)
stability of theta-pinch ballooning of $\beta = 1$, 21:13610
stability of theta-pinch, (T), 21:9622
stability of theta-pinch, effects of magnetic field nonuniformity on, (E), 23:34454 (N-69-20997)
stability of theta-pinch, hydromagnetic, 22:1265 (LA-3770, Paper B1)
stability of theta-pinch, hydromagnetic, (T), 22:1273
stability of toroid-geometry, condition for flute, (T), 21:46388
stability of toroidal column of, in steady-state and hf magnetic fields, (T), 22:17713
stability of toroidal confined, field curvature effects on, (T), 21:13611
stability of toroidal confined, low-frequency limit of interchange, (T), 22:24360
stability of toroidal confined, velocity space, (T), 21:15207
stability of toroidal discharge, Rayleigh—Taylor, (E), 23:10686
stability of toroidal high-beta, equilibrium, (T), 22:24365
stability of toroidal screw pinch, magnetohydrodynamic, (E/T), 23:30567 (NP-17881)
stability of toroidal, ballooning effects on, (T), 23:12889
stability of toroidal, conditions for static, (T), 21:42146
stability of toroidal, hydromagnetic, (T), 23:12879
stability of toroidal, normal-mode analysis of kink, 25:19704 (NP-18681)
stability of toroidal, resistive, (E), 22:34722
stability of toroidal, resistive, (E), 23:18671 (AD-671901)
stability of toroidal, resistive, (E), 23:23172
stability of toroidal-confined, critical rotational velocities in, (T), 25:7402
stability of toroidal-confined, drift-cyclotron, 21:40044
stability of transverse waves in relativistic, (T), 23:14821
stability of trapped particles in toroidal systems, drift-dissipative, (T), 25:33296(T) (MATT-Trans-42)
stability of trapped, when quasineutrality is disturbed, 23:3524(T) (MATT-Trans-67)
stability of trapped-particle equilibrium, (T), 25:27733
stability of traveling bumpy theta-pinch, 22:7330
stability of turbulent magnetized, drift, (T), 23:36721
stability of turbulent, effects of electromagnetic properties on, (T), 23:42373
stability of turbulent, ion—acoustic oscillation effects on, 21:15202
stability of turbulent, multiplasmon decay, (T), 21:46387
stability of turbulent, nonlinear drift, 22:50201 (JINR-P9-3981)
stability of turbulent, particle acceleration statistics for, 21:3903
stability of two-beam, quasi-linear theory for, 21:20996
stability of two-component anisotropic, electrostatic, (T), 25:59061 (CEA-CONF-1828)
stability of two-component columns of, (T), 22:41630
stability of two-component electron, cyclotron, 21:42142
stability of two-component electron, low-density cyclotron, (E), 24:51707
stability of two-component, (T), 21:15204
stability of two-component, nonlinear flute, (T), 24:3392
stability of two-dimensional configurations, nonlinear, (T), 23:23165 (IPP-6/68)
stability of two-dimensional nonhomogeneous, effects of initial conditions on, 22:5392
stability of two-dimensional, in magnetic fields, (T), 23:44451
stability of two-stream, dispersion relations for, (T), 24:19910
stability of two-stream, methods for simulating, 24:35464
stability of two-stream, two pole models for, 25:14340
stability of uniform homogeneous, effect of anisotropic ion velocity distribution on electrostatic, (T), 23:32484
stability of uniform induction, electromagnetic micro-, (T), 23:12878
stability of uniform magnetized, linear theory for, (T), 25:59102
stability of uniformly rotating magnetized, resistive, (T), 25:56203
stability of unmagnetized, effects of temperature anisotropy on, (T), 23:20937 (UCRL-18751)
stability of unmagnetized, from temperature anisotropy in, (T), 24:15339
stability of variable conductivity, (T), 22:34717(R) (AD-664924)
stability of viscous fluid with horizontal boundary, resistive, (T), 22:31876
stability of Vlasov, formulation of streaming, (T), 21:11673
stability of Vlasov, higher-order modes of oscillation in counterstreaming, (T), 21:27213
stability of Vlasov, magnetogravitational, (T), 23:12891
stability of weakly inhomogeneous magnetized, absolute and convective, (T), 24:51699
stability of weakly ionized after glow, in short tubes with weak magnetic fields, (E/T), 24:35471
stability of weakly ionized discharge, helical, (E), 23:14823
stability of weakly ionized discharge, onset of helical, (E), 23:1494 (MIAPH-PL-68.5)
stability of weakly ionized in pressure of feedback, current-convective, 24:3395

stability of weakly ionized layer of, in crossed electric and magnetic field, 22:44192
stability of weakly ionized magneto-, collisional drift-like, (E/T), 24:3383 (AD-692193)
stability of weakly ionized magneto-, effect of transverse electric field on, (T), 25:36185
stability of weakly ionized magneto-, low-frequency, (T), 25:19720
stability of weakly ionized, acoustic, (T), 24:8481
stability of weakly ionized, collisional effects on ion—acoustic, (E), 23:44468
stability of weakly ionized, current, (T), 24:19908
stability of weakly ionized, drift-dissipative, (T), 24:17954
stability of weakly ionized, effects of electron thermal energy gradients on, (T), 25:47565
stability of weakly ionized, finite amplitude, 21:42133 (D-1-82-0626)
stability of weakly ionized, in alternating electric fields, 21:35205
stability of weakly ionized, in crossed electric and magnetic fields, 21:29292 (IPPCZ-48)
stability of weakly ionized, in external electric fields, (T), 23:14827
stability of weakly ionized, in nonuniform magnetic fields, convection, (T), 22:31880
stability of weakly ionized, unified linear theory for magnetohydrodynamic, 25:59066
stability of zero-β, in multipole magnetic field configurations, (T), 25:33299
stability of, adiabatic invariants and equilibrium of magnetically trapped particles, (T), 21:18772
stability of, amplitde limitation of collisional drift, (T), 25:9495
stability of, analysis of density gradient-driven collisional drift, 24:49104(R) (UCB-34-P-128-15)
stability of, analysis of, (T), 22:9308 (TID-24203, pp 73-134)
stability of, analysis using collisionless Boltzmann—Vlasov equation, 25:16734
stability of, anomalous resistive, 21:29301
stability of, asymptotic behavior of two-stream, (T), 25:59062 (IPP-6/97)
stability of, asymptotic state of two-stream, (T), 23:12884
stability of, bibliography on, 25:49910 (AD-722085)
stability of, Bohr—van Leeuwen theory for, 21:25165 (NASA-TN-D-3880)
stability of, bounce effects on negative mass, (T), 25:3117 (CEA-CONF-1598)
stability of, boundary current effects on, (T), 23:46496 (ORO-3895-1)
stability of, classification of convective and absolute, (T), 24:40108
stability of, classification of lf, (E/T), 25:27728
stability of, collision effects on Rayleigh—Taylor, (T), 25:9502
stability of, collisional effects at cyclotron harmonics, 23:8634
stability of, computer simulation of drift loss cone, 25:17168 (UCRL-50002-70, pp 1.1-36)
stability of, conditions for longitudinal disturbances in, (T), 22:26439
stability of, conditions for maximum entropy and low-frequency interchange modes, (T), 23:36715
stability of, conditions for two-stream, (T), 23:12883
stability of, conference on, 21:29191(T) (NASA-TT-F-433)
stability of, convection from ion-driven drift, (T), 25:27735
stability of, convective and absolute Harris, (T), 21:15209
stability of, convective and absolute, (T), 22:13520
stability of, convective and nonconvective, (T), 21:11670 (UCRL-50002-66-1, pp 126-48)
stability of, convective cells from flute, (T), 25:27734
stability of, correlation of wave transformation with, (T), 21:3899
stability of, Coulomb collision effects on drift, (T), 21:27211
stability of, criterion for absolute and convective, (T), 24:49186
stability of, density gradient effects on convective modes of, 21:13613
stability of, destabilization and quasilinear evolution of ion flute mode, (T), 23:48926
stability of, dispersion relation for Kelvin—Helmholtz, (T), 23:12874
stability of, drift mirror, (T), 24:8394
stability of, drift-dissipative, (T), 24:5087
stability of, drift-temperature, 21:33485
stability of, drifting across magnetic field, (T), 23:3529
stability of, effect of anisotropic velocity distributions on, (T), 23:23170
stability of, effect of dissipation on nonlinear interactions in, (T), 23:27650
stability of, effect of electron- and ion-temperature perturbations on, (T), 22:20028
stability of, effect of electron—ion collisions on parametric, (T), 25:27782
stability of, effect of finite ion Larmor radius on Kelvin—Helmholtz, 22:17709
stability of, effect of finite Larmor radius on gravitational, (T), 22:36626
stability of, effect of finite Larmor radius on Rayleigh—Taylor, (T), 24:3397
stability of, effect of gyro-viscosity on Rayleigh—Taylor, 25:19711
stability of, effect of hf magnetic field on, (T), 22:39141
stability of, effect of homogeneity on, (T), 22:15545 (IIF-LA-9)
stability of, effect of inductive and capacitive walls on diocotron, (T), 22:34723
stability of, effect of magnetic curvature on density gradient drift, (T), 23:18678
stability of, effect of nonuniform electric fields on drift, (T), 25:17198
stability of, effect of resonant particles on flute, (T), 23:42341
stability of, effect of shear and connection length on drift, (E), 23:32474
stability of, effect of sheared magnetic fields on ion cyclotron drift, (T), 24:15340
stability of, effect of viscosity on, (T), 22:17704
stability of, effects of anisotropic velocity distributions on, 21:33483(R) (ORO-2598-1)
stability of, effects of bounce resonance on, 22:41629
stability of, effects of collisional background on two-stream, 24:45263 (INR-P-1188)
stability of, effects of collisional plasma background on two-stream, (T), 25:22543
stability of, effects of dispersion of curvature drift velocities on, (T), 22:7336
stability of, effects of electric currents on, 22:39102
stability of, effects of electron current with velocity gradient on, 22:3107
stability of, effects of electron cyclotron resonance radiation on, 23:1408(R) (COO-1695-13)
stability of, effects of electron runaway and ion drift on, (E), 23:30539
stability of, effects of electron velocity distribution on, (T), 22:29532
stability of, effects of hf electric fields on density-gradient-driven microinstabilities, 24:51696
stability of, effects of high-frequency magnetic fields on, 22:11481
stability of, effects of Larmor radius and collisions on gravitational in-, (T), 23:39100
stability of, effects of magnetic field spatial variations on, (T), 22:50211
stability of, effects of magnetic shear on density gradient, 22:17706
stability of, effects of parametric coupling on, (T), 21:7298
stability of, effects of radiant emission and thermal conductivity on, (T), 23:20943
stability of, effects of stochastic rf field on, (T), 23:44455
stability of, effects of temperature gradients on ion flute modes, (T), 23:23174
stability of, effects of thermonuclear reactions on, 22:11483
stability of, effects of wave interactions on explosive, (T), 25:5109
stability of, effects on controlled thermonuclear research, 21:18769
stability of, electromagnetic and finite β/sub e/ effects on counterstreaming ion, (T), 25:43394
stability of, electromagnetic cyclotron, (T), 25:38487
stability of, electromagnetic electron—ion streaming, (T), 24:17963
stability of, electromagnetic instabilities parallel to magnetic fields, (T), 25:56204
stability of, electromagnetic wave effects on temperature anisotropy, (T), 25:11916
stability of, electromagnetic wave interaction effects on, 21:812
stability of, electromagnetic, (T), 23:18672(T) (AD-673188)
stability of, electron beam interaction effects on, 21:9621
stability of, electron beam interaction effects on, 21:11633(R) (SU-IPR-124)
stability of, electron beam interactions causing hose, (E), 21:16955
stability of, electron beam-induced, 21:9632
stability of, electron cyclotron resonance radiation effects on, (E/T), 22:7328(R) (COO-1695-5)
stability of, electron- and ion-cyclotron wave effects on, (T), 21:18766
stability of, electrostatic electron—ion streaming, 24:17964
stability of, energy constants for nonlinear theory of electromagnetic, 25:40668
stability of, evolution from linear to nonlinear saturation of, (E), 24:35459
stability of, exact inversion of dispersion relations for, (T), 21:808
stability of, excited by azimuthal electron beam, 22:31872
stability of, explosive, (T), 23:39495 (ORNL-TM-2652)
stability of, finite β effects on, (T), 21:7296
stability of, frequency cusp for determining convective and nonconvective, (T), 24:28312
stability of, general algorithm for, (T), 23:27647
stability of, general algorithm for, (T), 23:34445 (AD-684545)
stability of, general review of, (T), 24:1424
stability of, gravitational, 22:39143
stability of, guiding-center treatment of finite gyroradius fluid equations for, 22:31879
stability of, Hall effects on gravitational, (T), 23:3531
stability of, Hall effects on Kelvin—Helmholtz, (T), 23:3527
stability of, Hamilton's principle for two-stream, (T), 23:1492 (LA-3990, pp B1.1-4)
stability of, heating frequency and mirror ratio effects on, (E/T), 24:35446(R) (COO-1695-27)
stability of, hydrodynamic theory for, (T), 23:12873 (NP-17760)
stability of, hydrodynamic theory for, (T), 23:44446(T) (AEC-tr-7071)
stability of, hydromagnetic analog of Kelvin—Helmholtz problem including Hall effects, 25:30392
stability of, hydromagnetic theory for interchange, 23:10690
stability of, ideal hydromagnetic theory for interchange, 21:31467 (MATT-447)
stability of, identification of collisional drift, using correlation techniques, (E), 24:6550 (AD-694126)
stability of, in Astron device, 22:36953 (UCRL-70876)
stability of, in strongly inhomogeneous magnetic field, (T), 23:8637
stability of, inhomogeneous two-stream, (T), 22:24363
stability of, integration of perturbed Vlasov equation in reduced phase space, 22:9405
stability of, interaction of negative mass and loss cone modes, (T), 24:40106
stability of, internal collision effects on, (T), 21:3902
stability of, ion collision effects on resistive-g, 21:15205
stability of, ion drift waves in, (T), 24:21831
stability of, ion energy effects on, 23:1500
stability of, ion resonance, 22:48138 (TID-24688)
stability of, kinetic theory of diochotron, (T), 23:10685
stability of, kinetic theory of drift-dissipative, 21:7292(T) (MATT-Trans-31)
stability of, kinetic theory of drift-dissipative, 22:15547
stability of, kinetic theory of drift-dissipative, (T), 23:48930
stability of, kinetics of flute, (T), 23:12890
stability of, Landau singularities for double stream, (T), 24:10583
stability of, Larmor radius and collisional effects on combined Taylor and Kelvin, 22:39144
stability of, least stable mode in cylindrical systems, 23:1498
stability of, light scattering effects on drift, (T), 21:5245 (IPP-1/48)
stability of, linear growth rates and nonlinear saturation coefficients of, (E), 23:36718
stability of, literature survey on, 21:23222 (AD-642936)
stability of, low-frequency interchanges, (T), 24:5179 (IPP-6/76)
stability of, macroscopic quasi-linear theory of garden hose, 22:39140 (N-68-17428)
stability of, macroscopic quasi-linear theory of garden-hose, 22:52832
stability of, macroscopic quasi-linear theory of two-stream, 22:9398
stability of, magnetic curvature effects on drift-cyclotron, 21:40043
stability of, magnetic field strength and temperature effects on, (T), 24:35372(R) (UCB-34-P-128-14)
stability of, MHD solutions for nonlinear waves and turbulence from macroinstabilities, (T), 25:40671
stability of, model for nonlinear ion wave, 21:20988 (MATT-Q-23, pp 181-320)
stability of, model with particles trapped in electrostatic wave for satellite frequencies for, 23:51688
stability of, negative mass, (T), 24:10563
stability of, nonlinear analysis for, (T), 24:1443
stability of, nonlinear development of beam—cyclotron, (T), 25:45500
stability of, nonlinear development of two-stream, (T), 23:12875
stability of, nonlinear dynamics of single harmonic loss-cone flute mode, (T), 23:36713
stability of, nonlinear dynamics of single nonharmonic loss-cone flute mode, (T), 24:26228
stability of, nonlinear effects on current, (T), 23:27651
stability of, nonlinear evolution of multiple-finite amplitude resonant loss-cone modes, 24:40107
stability of, nonlinear evolution of resonant interchange, (T), 22:24361
stability of, nonlinear evolution of two-stream, 21:37505
stability of, nonlinear explosive, (T), 23:34429 (ORNL-4401, pp 1-24)
stability of, nonlinear generation of cyclotron harmonics from flute mode, (T), 24:1447
stability of, nonlinear plasma waves and turbulence from macroinstabilities, (T), 25:36164 (TID-25713)
stability of, nonlinear properties of explosive and two-stream, (T), 24:49180 (TID-25531)
stability of, nonlinear solutions for ion—acoustic waves in, (T), 23:51684 (NP-18032)
stability of, nonlinear theory for explosive instabilities in presence of linear damping or growth, (T), 25:25139
stability of, nonlinear theory of drift-dissipative, (T), 24:51708
stability of, nonlinear theory of hydrodynamic beam, 24:10567
stability of, nonlinear theory of hydrodynamic beam, 23:3522(T) (CERN-Trans-68-6)
stability of, nonlinear theory of low-frequency, 23:12876
stability of, nonlinear wave interactions from beam, (T), 22:11479
stability of, nonlinear waves from two-stream, (T), 23:1417 (LA-3990, pp A6.1-9)
stability of, nonlinear, (T), 21:29296
stability of, nonlocal theory for trapped-particle in toroidal systems, (T), 25:52842
stability of, numerical experiments on nonlinear, 25:56205
stability of, numerical simulation of ionization, 24:28309
stability of, numerical simulation of ionization, (T), 23:25374
stability of, numerical simulation of Weibel, (T), 25:27737
stability of, numerical solutions for explosive, 25:11914
stability of, observation of velocity-space, (E), 23:20940
stability of, one-dimensional simulation of relativistic streaming, (T), 25:52844
stability of, optical parametric backward-wave, 24:15347
stability of, ordinary-mode electromagnetic cyclotron, (T), 25:49919
stability of, parametric enhancement of drift, 23:48920
stability of, particle analysis for electromagnetic and electrostatic due to anisotropic velocity distributions, 21:35206
stability of, particle aspect analysis of drift, (T), 21:35204
stability of, particle trajectories in drift-wave, (T), 21:42132 (AD-645148)
stability of, periodic slab model for drift-wave, (T), 24:28308
stability of, persistence of magnetohydrodynamic in two-fluid model, 21:46385
stability of, physical mechanism for collisionless drift wave, (T), 23:23173
stability of, plasmon theory for linear and nonlinear two-stream, (T), 25:43387

stability of, properties of, 21:33482 (NP-16818)
stability of, properties of recombination, (T), 23:48925
stability of, quasi-linear theory for, 21:46384
stability of, quasi-linear theory of aperiodic, 21:46386
stability of, quasistationary theory for, 21:20951
stability of, radiation-induced decay of Bernstein modes, (T), 23:23171
stability of, recombination effects on, 21:27221
stability of, reduced space models for computer simulation of, 23:1493 (LA-3990, pp D3.1-5)
stability of, relativistic cyclotron, 24:35451
stability of, research at Innsbruck Univ., Austria, 25:47560 (AD-717751)
stability of, research on electrostatic, 21:29294(R) (SIT-3785-3)
stability of, research on macroscopic and microscopic, (E/T), 23:34446 (AD-684563)
stability of, research on magnetohydrodynamic, 24:28307 (AD-701453)
stability of, research on universal, 21:2273(R) (ORO-3405-9)
stability of, research on universal, 22:31865(R) (ORO-3405-20)
stability of, research on universal, 25:38486(R) (ORO-3405-35)
stability of, research on universal, (E), 23:20936(R) (ORO-3405-26)
stability of, research on universal, (E), 23:27645(R) (TID-25037)
stability of, research on universal, (E/T), 23:20935(R) (ORO-3405-25)
stability of, research on, (E/T), 23:8568 (ORNL-TM-2337)
stability of, research on, (E/T), 21:11670 (UCRL-50002-66-1, pp 126-48)
stability of, resistive interchanges and negative V" criterion, (T), 23:12887
stability of, resonant loss-cone, 22:52830 (CONF-671127, pp 374-407)
stability of, review of, 22:7333
stability of, review of, 23:1496 (TID-24759)
stability of, review of magnetohydrodynamic, 23:51692
stability of, review of micro- and macro-, 24:40105
stability of, review of tearing-mode, (T), 23:51693
stability of, ring approximation theory for, 22:26438
stability of, saturation of nonlinear explosive, (T), 24:3402
stability of, self-consistent calculation of explosive, (T), 25:40667
stability of, self-excited subharmonics from current-convective, (T), 24:24022
stability of, simulation of electrostatic two-beam, (T), 24:3403
stability of, simulation of microinstabilities using superparticle computer models, 25:56206
stability of, simulation of nonlinear interactions in, (T), 25:45495 (UCRL-51059)
stability of, singularity interaction of oscillation modes in theory of, 22:31869
stability of, soft- and hard-onset and amplitude saturation of collisional drift, (E), 24:3386 (MATT-731)
stability of, studies of two-stream, (T), 21:44138
stability of, subdominant solutions using partial Wronskian, (T), 23:36719
stability of, survey of universal, 21:20988 (MATT-Q-23, pp 181-320)
stability of, technique for determining propagation characteristics of, (T), 24:21832
stability of, theory for, 21:35203(T) (NASA-TT-F-436)
stability of, theory for microscopic, 21:42143
stability of, theory for nonlinear explosive, 25:11913 (UUIP-722)
stability of, theory of adiabatic invariants in electromagnetic fields, 23:7026 (IPP-6/66)
stability of, theory of hf, 25:27727
stability of, theory using ring approximation, 22:13519
stability of, three-wave interaction effects on explosive, 25:33304
stability of, time-averaged density profile in m = 2 mode finite-amplitude, (T), 25:19715
stability of, transient development of hose, 21:33484 (UCID-15127)
stability of, turbulence theory for two-stream, (E/T), 24:1423
stability of, turbulent diffusion and ion heating during current, (T), 23:27606
stability of, turbulent relaxation of, 24:3400
stability of, two-streaming cyclotron, 21:40042
stability of, variational analysis of dissipative, 24:40111
stability of, velocity-anisotropic, (T), 23:51695
stability of, weak-turbulence analysis of two-stream, (T), 25:27740
stability of, with axially symmetric velocity distribution, 22:11482
stability of, with finite Larmor radius, gravitational in, (T), 23:39094
stability of, zero current azimuthal current toroidal configuration for, 21:31468(T) (NP-tr-1556)
stability simulation by computers, cyclotron frequency, (T), 24:35426
stability simulation by one-dimensional computer models, cyclotron, 24:21753 (UCRL-50002-69, pp 1-28)
stability simulation in sheet pinch, by computers, 24:51700
stability theory for, asymptotic methods of, 21:3898(T) (AEC-tr-6834)
stability theory for, boundary conditions in, 25:1232
stability theory for, use of slab models for hydromagnetic, 21:40041
stability under strong electromagnetic wave action, ion cyclotron in, 22:52835
stability with loss from ends of axially symmetric magnetic bottle, analysis of low β limiting case, 23:25379
stability, calculation of statistical entropy for nonequilibrium, 22:3136
stability, effects of unstable magnetosonic waves in relativistic, (T), 21:16841
stability, relativistic garden hose, (T), 21:16956
stability, theory of conditions for hydromagnetic, 25:17203
stabilization and confinement in strong uhf fields, (E), 23:34452 (CONF-680113-(Vol.4), pp 1173-1201)
stabilization and confinement using MHz electromagnetic fields, (E), 23:34451 (CONF-680113-(Vol.4), pp 1147-72)
stabilization and equilibrium in helical-field theta-pinch, linear and toroidal, (E), 25:38480 (CONF-710607-116)
stabilization by external feedback systems, (T), 24:35449
stabilization by feedback, in IMP device, 25:45450 (ORNL-4688, pp 24-43)
stabilization by floating walls, (T), 24:24016
stabilization by hf electromagnetic fields, (E), 23:32442(T) (LA-4056-TR)
stabilization by high-frequency magnetic fields, (T), 23:34447 (CONF-680113-(Vol.4), pp 1077-88)
stabilization by rotation of arc discharge tube, (E), 23:20944(P)
stabilization criteria for electrostatic modes in magnetic mirror machines, (T), 23:32471
stabilization effect of mode coupling in collisionless, 21:33492
stabilization effects of hf magnetic fields on lf instabilities in, (T), 25:40680
stabilization in Columba device, 24:17975(R) (LA-4351)
stabilization in external hf fields, drift, (E/T), 22:50206
stabilization in helical magnetic fields, shear, 21:18763(T) (NP-tr-1512)
stabilization in magnetic mirrors, by feedback, (T), 25:40674
stabilization in magnetic mirrors, effect of gyration radii on, 22:50126(R) (EUR-CEA-FC-352)
stabilization in magnetic mirrors, effects of ion distribution function on, (T), 22:36883 (UCRL-70681)
stabilization in minimum-B fields, warm quiescent, 25:19705
stabilization in Penning discharges, electron transport, (E/T), 23:34400 (ORNL-4401, pp 113-44)
stabilization in Q devices using remote feedback by microwaves, (E/T), 25:27766
stabilization in Q devices, passive feedback, (E), 25:27771
stabilization in Q devices, shear, 21:33363 (MATT-Q-24, pp 1-195)
stabilization in Scyllac device, feedback, 24:17975(R) (LA-4351)
stabilization in sharp-surface stellarators, by longitudinal currents, (T), 24:51698
stabilization in stellarators, by finite-Larmor-radius and ion—ion collisions, 21:42135
stabilization in theta pinch devices, due to plasma outside mirror end points, 22:1264 (LA-3770, Paper A7)
stabilization in tokamak devices, feedback control problems in, (T), 25:27763
stabilization in Tolosokop toroidal pinch, hf, (E), 25:38462 (CONF-710607-22)
stabilization of absolute loss-cone instabilities, effect of finite β on, 22:24358 (UCRL-50397)
stabilization of acoustic oscillations in magneto-, effects of ion viscosity on, (T), 22:13517(T) (NP-tr-1607)
stabilization of antisymmetric mode of cyclotron frequency in Ogra 2, feedback, (E), 24:40103
stabilization of beam—plasma system, (T), 25:1229
stabilization of bounded, by feedback, 24:37487
stabilization of collision-dominated, shear, 22:50208
stabilization of collisional drift instabilities by modulated microwaves, remote feedback, (E), 24:10565
stabilization of collisional drift waves by modulated parallel-electron-current sink, 24:26231
stabilization of collisional, in toroidal magnetic fields, (T), 23:42342
stabilization of collisional-drift waves in, using feedback, (E/T), 23:46497
stabilization of collisionless multi-mode drift centrifugal waves in mirror-confined, feedback, (E), 25:27768
stabilization of collisionless trapped-particle instabilities in, finite-beta, (T), 25:43388
stabilization of column, by hf multipole magnetic fields, (E), 23:32459
stabilization of confined collisionless, using electromagnetic fields, (T), 25:3123
stabilization of confined, by oscillating electromagnetic fields, (T), 23:27646
stabilization of confined, dynamic, (T), 24:24009 (CEA-CONF-1397)
stabilization of convective instabilities in, by superhigh-frequency fields, 22:46188 (IAE-1490)
stabilization of convective instabilities in, use of uhf fields for, (E/T), 23:27608(T) (AEC-tr-7012)
stabilization of convective instabilities in, using vhf fields, (E), 23:44449 (CONF-680113-(Vol.5), pp 203-27)
stabilization of convective loss-cone mode in warm, (T), 23:20941
stabilization of corrugated theta pinch, with long-wave perturbations with m = 1, 25:9501
stabilization of current, using conducting walls, (T), 21:18768
stabilization of curved theta-pinch, in series of caulked cusp fields, 24:28314
stabilization of cyclotron instabilities in OGRA II device, feedback, (E), 25:27776
stabilization of cylindrical, with current in longitudinal magnetic field, (T), 22:22194
stabilization of cylindrically rotating, along magnetic fields, high-frequency, (T), 23:32456
stabilization of dense, in closed magnetic traps, (T), 22:50204
stabilization of density gradient drift instabilities in, magnetic shear effects on, 21:37502 (MPI-PAE/PL-3/67)
stabilization of density gradient instabilities, shear, (T), 21:18760 (MPI-PAE/PL-1/67)
stabilization of discharge, feedback-control, (E), 25:19713
stabilization of dissipative drift instability by hf fields, (T), 23:32447
stabilization of dissipative instabilities by hf electromagnetic fields, 25:22544
stabilization of drift and ion acoustic instabilities, feedback, (E/T), 25:27767
stabilization of drift cyclotron instabilities in, shear, (T), 24:17956
stabilization of drift cyclotron instabilities in, shear, (T), 24:6553
stabilization of drift dissipative instabilities using inhomogeneous hf fields, 25:33294 (EUR-CEA-FC-581)
stabilization of drift instabilities by feedback system, (E), 23:32446
stabilization of drift instabilities by hf electromagnetic fields, 24:32854
stabilization of drift instabilities by rf electric fields, (E), 24:37481 (IPPJ-91)
stabilization of drift instabilities in discharge, feedback, (E), 23:34458
stabilization of drift instabilities in discharges, by rf electric fields, (E), 25:27787
stabilization of drift instabilities in magnetized, using feedback technique, 25:30550
stabilization of drift instabilities, feedback, (T), 24:15338
stabilization of drift instability in magnetically confined isothermal, (T), 21:29309
stabilization of drift loss cone instabilities in, effects of helicons on, 24:45268
stabilization of drift modes in inhomogeneous, nonlinear, (T), 23:32450
stabilization of drift waves by modulated electron sources, feedback, (T), 24:8500
stabilization of drift waves by nonuniform hf electromagnetic fields, (T), 25:27741
stabilization of drift waves in alkali metal, ion mass, (E), 22:24243 (MATT-Q-25, pp 118-65)
stabilization of drift waves in cesium, by ac electric fields, (E), 23:32519
stabilization of drift waves in collision-dominated, by ac current, (T), 24:35455
stabilization of drift waves in collisionless, by ac electric fields, (T), 25:27779
stabilization of drift waves in collisionless, by electric fields, (T), 25:33303
stabilization of drift waves in magnetically confined low-β, ac and dc methods for, (E), 25:38463 (CONF-710607-23)
stabilization of drift waves in mirror-confined, feedback, (E), 24:28315
stabilization of drift waves in Q devices, by ac electric fields, (E), 25:7403
stabilization of drift waves in Q devices, minimum-B, (E), 24:51697
stabilization of drift waves in Q devices, shear, 24:51704
stabilization of drift waves in weakly inhomogeneous magneto-, dynamic, 24:35452
stabilization of drift waves in, by feedback, (E), 24:35372(R) (UCB-34-P-128-14)
stabilization of drift waves in, shear, (T), 21:29304
stabilization of drift- and flute instabilities by hf pressure, (T), 24:1444
stabilization of drift-dissipative instabilities by rf magnetic and electric fields, (T), 25:36179
stabilization of drift-dissipative instabilities by inhomogeneous rf fields, (T), 25:27780
stabilization of drift-dissipative instabilities in inhomogeneous rf fields, (T), 25:40665
stabilization of drift-dissipative instabilities in afterglow, dynamic, (E), 25:27786
stabilization of drift-dissipative instability, by charged particle beams, (T), 23:44457
stabilization of edge oscillations in Q devices, using feedback, (E), 25:27770
stabilization of electromechanical equilibria, videotype sampling in feedback, (T), 25:27761
stabilization of electron waves in, quasi-linear calculation with allowance for spontaneous emission, (T), 25:9524
stabilization of electrostatic drift instabilities in, minimum-B field, 21:18776
stabilization of electrostatic instabilities in nonuniform, by helicon waves, 25:36183
stabilization of electrostatic instabilities in, dynamic, (T), 25:27777
stabilization of electrostatic instabilities in, feedback, (T), 25:27756
stabilization of electrostatic modes by feedback, (T), 24:21818
stabilization of electrostatic oscillations in, effect of stochastic rf fields on, (T), 25:49914
stabilization of filaments of, with variable current by quadrupole magnetic field, 25:43389
stabilization of fluctuations in stellarators, feedback, (E), 24:40101 (UCRL-72473)
stabilization of flute growth in, large amplitude, 22:1274
stabilization of flute instabilities in axially asymmetric magnetic fields, (T), 25:47564
stabilization of flute instabilities in cold, using electron beams, (T), 24:45270
stabilization of flute instabilities in magnetic fields with minimum B, (T), 25:47563
stabilization of flute instabilities in magnetic mirrors, (E/T), 23:36709 (ORNL-TM-2639)
stabilization of flute instabilities in magnetic mirrors, (T), 24:32852
stabilization of flute instabilities in magnetic mirror traps, (T), 24:15343
stabilization of flute instabilities in Phoenix II, by feedback system, (E), 23:32443(T) (NP-tr-1774)
stabilization of flute instabilities in Phoenix II, by feedback system, 25:36163(T) (CTO-737)

stabilization of flute instabilities in, by feedback, 22:46187 (IAE-1444)
stabilization of flute instabilities in, using integrating feedback system, (E), 25:56197
stabilization of flute instabilities using a feedback system, (E/T), 22:50205
stabilization of flute instabilities using uhf fields, (E), 23:34449 (CONF-680113-(Vol.4), pp 1105-30)
stabilization of flute instabilities with finite enforcer electrodes, (T), 25:33307
stabilization of flute instability by feedback system, (E), 23:32460
stabilization of flute instability in inhomogeneous, criteria for, (T), 25:30548
stabilization of flute oscillations in high-density, effects of electric field on, (T), 22:44197
stabilization of hf instabilities in magnetic fields, nonlinear, (T), 24:40110
stabilization of hf instabilities in magnetic fields, nonlinear, (T), 24:47266 (NYO-3782-4, App.8)
stabilization of high-β columns, feedback, (E), 25:27774
stabilization of high-β sharp boundaried column in helical fields, feedback, (T), 25:27764
stabilization of high-β stellarator-confined, feedback, (T), 24:49185
stabilization of high-β toroidal, magnetohydrodynamic, (T), 23:30571
stabilization of high-β, dynamic, (T), 25:27783
stabilization of highly conducting, feedback, (T), 24:15346
stabilization of highly conducting, feedback, (T), 24:26223 (AD-698810)
stabilization of hot electron, by homogeneous temperature effects, 23:51689
stabilization of hot electron, feedback, (E), 25:27775
stabilization of hydromagnetic instabilities in filament, feedback, (T), 25:7400
stabilization of inhomogeneous, by feedback, 22:34725
stabilization of instabilities by mode coupling, (T), 25:47573
stabilization of interchange instabilities in, dynamic, (E/T), 25:27791
stabilization of interchange instability at liquid-gas interface, (T), 24:19909
stabilization of ion acoustic instabilities in, (T), 25:25185
stabilization of ion and electron modes in, feedback, (E), 25:27765
stabilization of ion wave instabilities in, by hf electric fields, (E), 25:36172
stabilization of ion—acoustic and drift waves in, generalized boundary conditions for, 24:42710
stabilization of ion—acoustic instability by method of asynchronous quenching, (E), 24:15335
stabilization of ion—acoustic instability in, by nonlinear resonance effects, (T), 23:51691
stabilization of ion—sound instability by modulated source at electron cyclotron resonance frequency, feedback, 24:40119
stabilization of ionization instabilities in, feedback, (T), 25:45502
stabilization of ionization waves in positive columns, using feedback, (T), 25:27773
stabilization of Kelvin—Helmholtz instabilities in Q devices, feedback, (E/T), 25:27772
stabilization of Kelvin—Helmholtz instability in cesium, by passive feedback, 25:5111
stabilization of Kruskal—Shafranov modes in, feedback, (T), 25:27762
stabilization of large-growth rate flute modes in, feedback, 25:40679
stabilization of linear screw pinch, dynamic, (E), 25:27790
stabilization of linear theta pinches, by feedback systems, (T), 25:27726 (LA-4598)
stabilization of linear z-pinch, by magnetic quadrupoles, 25:19717
stabilization of loss cone instabilities in field of helicon wave, (T), 25:45516
stabilization of $m = 1$ instabilities in bumpy theta pinch, dynamic, (T), 25:27785
stabilization of $m = 1$ instability in bumpy theta-pinch, dynamic, (T), 24:21817
stabilization of $m = 1$ mode in screw-pinch, dynamic, (E), 25:38460 (CONF-710607-20)
stabilization of magnetic mirror-confined, criteria for electrostatic modes in, 22:36952 (UCRL-70866)
stabilization of magnetically confined, using hf potential, (T), 25:27778
stabilization of magneto-, using hf electric fields, 21:11674
stabilization of magnetohydrodynamic instabilities, dynamic, (T), 25:27784
stabilization of magnetohydrodynamic instabilities, (T), 23:51682 (CLM-R-97)
stabilization of magnetohydrodynamic instabilities using nonlinear feedback, (T), 25:27760
stabilization of magnetohydrodynamic instabilities in, by force-free magnetic fields, (T), 25:40681
stabilization of MHD instabilities by force-free magnetic fields in cylindrical geometries, (E), 25:56201
stabilization of MHD instabilities by force-free magnetic fields, (T), 25:56199
stabilization of MHD instabilities in force-free magnetic fields in linear pinches, (E), 25:56200
stabilization of MHD instabilities using feedback, review of, 25:27759
stabilization of microinstabilities in magnetic mirrors, feedback, (E/T), 24:5180
stabilization of mirror-confined, using feedback, (T), 25:27757
stabilization of nonlinear instabilities by dissipation, 23:32444
stabilization of oscillations in rotating potassium, (E), 24:49104(R) (UCB-34-P-128-15)
stabilization of partially ionized, control using electric fields, 25:33298
stabilization of pinch, by hf electromagnetic fields, (E), 23:44448 (CONF-680113-(Vol.5), pp 113-201)
stabilization of pinch, in longitudinal magnetic fields, (T), 24:17969
stabilization of potassium, shear, 21:25168
stabilization of potential oscillations in Q devices, by hf magnetic fields, (E/T), 23:36712
stabilization of potential oscillations in, by hf magnetic fields, (E), 23:36707 (IAE-1657)
stabilization of Rayleigh—Taylor instabilities in, (T), 25:9488 (LRP-45/70)
stabilization of resistive ballooning mode by sound waves, (T), 21:33362 (MATT-Q-24, pp 197-334)
stabilization of resistive drift waves in spherator, by shear, (E), 25:33308
stabilization of resistive drift waves in, by feedback from neutral beam injection, (T), 24:12842
stabilization of resonant loss-cone instabilities, warm, (T), 23:48924
stabilization of screw instabilities in current-carrying, by feedback, (T), 25:43384(T) (CTO-759)
stabilization of screw pinch $m = 1$ mode, dynamic, (T), 25:27749
stabilization of screw-type instability of, by hf field, (E), 22:50202
stabilization of self-excited ion—acoustic waves by cusped magnetic geometries, 24:42727
stabilization of straight axisymmetric bumpy column of, 22:44195
stabilization of temperaure gradient drift instabilities in, effects of ac electric fields on, (T), 25:22547
stabilization of theta pinch, dynamic, (T), 23:32481
stabilization of theta pinch, properties of, (E), 22:29531
stabilization of thin filaments of, dynamic, (T), 25:59071
stabilization of toroidal current column, by feedback, 23:5439
stabilization of toroidal current discharge in magnetic fields, hf, (E), 23:32457
stabilization of transverse instability, quasi-linear, (T), 24:21816
stabilization of transverse Kelvin—Helmholtz instability, electric field, (E/T), 25:7404
stabilization of trapped-particle instability by finite orbit effect, (T), 22:31873
stabilization of trapped-particle instability in, effect of hf magnetic fields on, (T), 25:27745
stabilization of trapped-particle mode by cool plasma component, (T), 24:42707
stabilization of two-stream instabilities in inhomogeneous, (T), 25:49912
stabilization of two-stream instabilities in, dynamic, (E), 25:27788
stabilization of two-stream instabilities in, possibility of, (E), 22:31877
stabilization of two-stream instability in beam—plasma system, (E), 24:26226
stabilization of two-stream instability in cold, using multiperiodic hf fields, (T), 23:34448 (CONF-680113-(Vol.4), pp 1089-93)
stabilization of universal instability in curved magnetic fields, (T), 25:45499
stabilization of universal instability modes in large-shear magnetic field, 25:14341
stabilization of universal-mode, in curved cusped geometries, (T), 23:23178
stabilization of Vlasov, feedback, (T), 25:27753
stabilization of weakly ionized, by large electron drifts, (T), 23:20939
stabilization of z-pinch, dynamic, (E/T), 25:27789
stabilization of Z-pinch, using theta pinch, (E), 22:50200 (IPP-1/77)
stabilization of, conference on, 25:27752
stabilization of, device for, 23:51690(P)
stabilization of, generalized boundary conditions for feedback systems for, (T), 25:27755
stabilization of, geometric limitations of feedback systems for, 25:27754
stabilization of, magnetic shear effects on, 21:42134
stabilization of, quasi-linear equations for, (T), 25:27739
stabilization of, review of methods for, 22:9397
stabilization of, strong turbulence theory for nonlinear, 25:19723
stabilization of, use of distributed automatic control systems for, 21:44132
stabilization using alternating electromagnetic fields, (T), 23:34450 (CONF-680113-(Vol.4), pp 1131-46)
stabilization using feedback and dynamic techniques, power requirements for, 25:38464 (CONF-710607-24)
stabilization using feedback by remote modulated source at ECR frequency, (E/T), 25:36184
stabilization using feedback control systems, (E), 25:25134
stabilization using feedback in Tokamak TO-1, equilibrium in, 25:38467 (CONF-710607-72)
stabilization using feedback, diagnostic use of, (E/T), 25:27769
stabilization using feedback, review of, 25:27742
stabilization using gravity, (T), 24:17965
stabilization using hf fields, ordinary- and helicon-wave, (T), 25:27781
stabilization using hf fields, skin effect in toroidal magnetized, (E), 25:38461 (CONF-710607-21)
stabilization using high-frequency electric field, energy spreading and, 21:29315
stabilization using minimum-average-B configurations, prospects for, (T), 23:12886
stabilization using oscillatory motions, (T), 23:32458
stabilization using two carbon dioxide laser beams, (T), 25:27758
stabilization with crossed field lines, temperature drift, 21:20997
Stark profile calculations for $H\alpha$, $H\beta$, $H\gamma$, and H delta lines in hydrogen, (T), 22:41562
stress tensor in hf electromagnetic fields, collisional effects on, 22:46165
striation formation in discharge, review of, 23:16791
striation motion in glow discharge, relation to acoustic waves, 21:33460
striation motion in helium positive column discharges, magnetic field effects on, 21:11671
striation motion in longitudinally magnetized positive column, 21:9588
striation motion in neon discharge, saturation processes in, (E), 23:18635
striation motion in neon, variations of plasma parameters in, 22:44149
striation motion in positive column, electron thermal relaxation length in neon, (E/T), 22:52795
striation motion in positive column, Langmuir probe analysis of, 21:747
striation motion in r-type, (T), 23:3477
striation motion in, variation of plasma parameters in, 22:44150
striation motion in, velocity calculation of, 21:42063
striation production in low-pressure, in strong hf field, 21:31437
striation production in, theory of artificial, 22:29517
striations in clouds of barium ions in ionospheric E region, (E), 24:32741
striations in column, nonlinear stabilization of, (E), 25:43393
striations in discharge, critical magnetic field for disappearance of, (E), 23:23115
striations in discharge, microwave measurements of electron density in, 22:9312
striations in discharge, nonlinear analysis of, 23:3512
striations in discharge, origin of moving, 22:41606
striations in discharge, review of, (E/T), 23:16790
striations in hf high-pressure discharges, (E), 23:12809
striations in high-frequency discharge, without external electric field, (E), 21:7221
striations in longitudinally magnetized column of, moving, (E), 21:733
striations in nitrogen discharge, dispersion curves for, 23:5408
striations in positive column of dc discharge in hydrogen, cross wave of moving, (E), 22:1230
striations in positive column, damping by hf field of moving, (E/T), 22:3099
striations in positive column, field reversal in, (E), 23:12814
striations in positive column, Langmuir probe analysis of, 23:1382
striations in positive column, microwave reflection on, 21:42077
striations in, forward positive moving, (T), 23:3462
striations in, potential variations in, (E), 22:24288
structure of interplanetary, radioastronomical study of inhomogeneous, 22:52314
structure of interstellar, from pulsar study, (E/T), 25:24783
structure of nonequilibrium sodium-seeded argon, in crossed fields, (E), 25:7386
structures in interplanetary, analysis of micro-scale, (E/T), 22:34237
synchrotron emission and absorption in, (T), 24:4920
temperature difference of ions and electrons in collisional, quasi-linear approximation of, 25:59007
temperature distribution in constricted positive column in neon, radial gas, 24:15287
temperature in high-pressure arcs, argon, (E), 25:33219
temperature in theta pinch, 21:7199
temperature measurement in, orbit analyzer probes for, 21:44046
temperature measurement, optical-spectroscopic method for, 22:34595
temperature profile of induction discharge at atmospheric pressure in argon, (E/T), 25:33236
temperature relaxation in, ion and electron, (T), 25:59028
temperature relaxation of electron-ion, in hf electric and constant magnetic fields, (T), 25:30545
temperature relaxation of, in strong magnetic fields, electron and ion, (T), 24:37467
theory, 21:17019(R) (UCRL-17282)
theory for anisotropic, space—time conductivity tensor in, (T), 25:40736
theory for collisionless nonrelativistic, dispersion relation in, 21:23327 (BNL-994, pp 103-10)
theory for tachyon, classical tachyon mechanics for formulation of Maxwell—Vlasov, (T), 25:59556 (IPP-6/95)
theory for, Grad method of momentum for relativistic Boltzman, 24:43043
theory of turbulent, in interstellar space, 25:13912
thermal conductivity of coronal and chromospheric, (T), 23:27307
thermal conductivity of electron, with inelastic electron scattering by optical phonons, 21:11653
thermal conductivity of Lorentz, in magnetic field, (T), 23:42325
thermal diffusion in highly ionized column of, (T), 24:35413 (MATT-758)
thermal equilibrium of argon, 22:5358
thermal forces in, effects on pressure and thermal conductivity of, (T), 23:7021
thermal radiation from Q-device, design and performance of ratio pyrometer for measuring, 24:16930
thermal stability of model hydrogen, (T), 24:37078
thermalization by magnetic mirror fields in BSG-I experiments, (E), 23:14779
thermodynamic calculations for high-temperature air—carbon dioxide, 22:44183
thermodynamic equilibrium for ground state of helium I in, (T), 23:27638
thermodynamic equilibrium in laser-induced xenon, local, 25:36121
thermodynamic equilibrium in rf argon, local, 22:41553
thermodynamic equilibrium in spark, (T), 25:49897(T) (SC-T-713054)
thermodynamic equilibrium in, criteria for complete and partial local, (T), 25:5094 (CEA-CONF-1629)

thermodynamic equilibrium of hydrogen, effects of radiation readsorption on, 21:5299
thermodynamic functions for alkali-metal, at 2,000 to 25,000°K and 10^{-4} to 100 atm, (T), 22:26411
thermodynamic functions for free electrons and protons in hydrogen, 22:9359
thermodynamic functions of argon—nitrogen, at atmospheric pressure between 5,000 and 35,000°K, (T), 23:36685
thermodynamic functions of ionizing atomic stellar, (T), 22:26126
thermodynamic processes in hydrogen, nonlinear transport in, (T), 25:47533
thermodynamic properties of alkali metal, (T), 21:2262
thermodynamic properties of argon, at 5,000 to 60,000°K, (T), 23:42287 (AWRE-O-20/69)
thermodynamic properties of argon—oxygen, between 2,000 and 35,000°K, 25:36104 (NP-18772)
thermodynamic properties of cesium—mercury, in MHD generators, (E/T), 22:52557 (CONF-680704-3)
thermodynamic properties of high-pressure, measurement and interpretation of, 21:18739
thermodynamic properties of high-temperature rare gas mixtures, (T), 25:17180
thermodynamic properties of highly ionized mixtures of, 21:46367
thermodynamic properties of nitrogen at 5000 to 40,000°K, (T), 25:45486
thermodynamic properties of nonideal, free-energy minimization method for, (T), 24:1439
thermodynamic properties of nonideal, method for determining, (E/T), 25:45460
thermodynamic properties of superheated mixed-gas, calculation method, 22:48129
thermodynamic properties of uranium, (T), 22:18541 (GA-8244)
thermodynamic properties of, effects of level-occupation numbers on, (T), 21:46127 (R-67-SD-53)
thermodynamic state of free burning argon, in arcs, (E), 24:10533
thermodynamics in tube arc heaters, enthalpy distribution in, (T), 25:1218
thermodynamics of air—carbon, calculation of, 22:9342
thermodynamics of argon and hydrogen, in anode regime of electric arcs, 21:18750(R) (N-66-22938)
thermodynamics of bound states in, statistical, 21:20949
thermodynamics of collisionless, at equilibrium in magnetic fields, (T), 23:14791
thermodynamics of degenerate dense, (T), 22:41615
thermodynamics of dense, (T), 21:11650
thermodynamics of dense, (T), 22:13470
thermodynamics of dense, (T), 23:14773
thermodynamics of dense, (T), 25:49902
thermodynamics of dense, numerical integration of equations for, 22:3103
thermodynamics of electron gas, collective theory for, 25:11896
thermodynamics of helium-arc, in cylindrical ducts, 21:758 (AD-632422)
thermodynamics of high-temperature, chemical, 21:3820
thermodynamics of high-temperature, quantum statistics for, 21:42104
thermodynamics of lithium, 21:46366
thermodynamics of mixed gas, (T), 23:23145
thermodynamics of partially ionized hydrogen, (T), 23:46479
thermodynamics of partially ionized, canonical transformation method in, 25:56172
thermodynamics of partially ionized, equation of state and Saha equation for, (T), 23:16819
thermodynamics of petroleum and coke, (T), 22:17436
thermodynamics of shock-produced low-temperature, 21:40003(T) (AD-653553)
thermodynamics of strongly ionized multicomponent, (T), 25:22529
thermodynamics of strongly nonideal, review, 25:7377
thermodynamics of unstable, (T), 23:12853
thermodynamics of weakly relativistic, (T), 22:29519
thermodynamics of, cluster expansion for, 21:9564 (TID-23497)
thermodynamics of, determination of normal temperatures for nonthermal, 25:49898(T) (SC-T-713056)
thermodynamics of, equilibrium approximations for, (T), 21:2232
thermodynamics of, evolution criteria considering radiation interactions in, (T), 24:1408
thermodynamics of, isoperimetric solutions for, (T), 23:27633
thermodynamics of, kinetic energy corrections to Klein's theorem for, (T), 23:16823
thermodynamics of, review of, 22:1238
thermokinetic expansion theory for, (T), 24:8460 (MATT-736)
thermonuclear combustion waves in dense, existence of, (T), 25:27820
thermonuclear energy from, Lawson criteria for, 25:36191 (MATT-844)
thermonuclear reaction waves in solid deuterium—tritium, (T), 25:52847 (AD-720839)
thermonuclear reactions from neutral beam injection into toroidal confined, (T), 25:40694
thermonuclear reactions in deuterium, neutron flux anisotropy in, (T), 24:19913 (IPP-1/103)
thermonuclear reactions in deuterium, time-resolved neutron spectra analysis from, (E), 25:47504
thermonuclear reactions in deuterium—tritium, kinetic processes in, 25:25160
thermonuclear reactions in deuterium—tritium, rate calculations for, 24:24024 (FOA-4-4392)
thermonuclear reactions in deuterium—tritium, reaction rates and energy spectra from, 24:15355
thermonuclear reactions in high-temperature, reaction rates and energy spectra for, 24:19912 (IPP-1/101)
thermonuclear reactions in, emission spectra from, (T), 25:9504 (FOA-4-4438)
thermonulcear reactions in dense, energy balance when contained by walls, (T), 24:28335
thermophysical properties of, conference on, 22:25611
transition probabilities of singly-ionized argon in, (E), 21:43768
transport across magnetic fields, design of high-speed correlator for determining anomalous, 22:28219
transport across strong magnetic field in toroidal, increased coefficients for, (T), 25:40592
transport and fluctuations in Gulf GA toroidal quadrupole, (T), 23:36643 (GA-9226)
transport behavior of relaxation, near emitting electrodes, (T), 25:47364
transport calculations for, usefulness of ionization fraction for, (T), 23:27640
transport calculations using shielded Lande potential, (T), 25:1202
transport coefficient calculations for ionized, 24:15333
transport coefficients for collisional, using quasi-linear approximation, (T), 23:25342 (BMwF-FBK-69-3, pp 18.1-24)
transport coefficients for helium and neon, electron energy distribution, (T), 25:9464
transport coefficients for helium, (T), 23:42304
transport coefficients for inhomogeneous magnetized, (T), 24:42691
transport coefficients for multicomponent mixture of, (T), 24:51679
transport coefficients for partially ionized argon, 21:15164
transport coefficients for partially ionized helium, (T), 23:12842
transport coefficients for partially ionized two-temperature, 22:9365
transport coefficients for TM-3 apparatus, 23:34379
transport coefficients for, (T), 21:27189
transport coefficients for, resolution of BBGKY hierarchy for, (T), 23:18660
transport coefficients in binary mixtures of, (T), 21:27190
transport coefficients in collisional, quasi-linear approximation for, 23:36679 (AD-682336)
transport coefficients in Tokamak TM-3, (E/T), 24:3296(T) (MATT-Trans-93)
transport coefficients in, influence of inelastic collisions on, 22:36903
transport coefficients of degenerate, (T), 22:31860
transport coefficients of degenerate, (T), 22:36941
transport coefficients of dense, Bogolyubov distribution functions in, (T), 22:34821
transport coefficients of multi-temperature gas mixtures in stationary electromagnetic fields, (T), 24:23975 (JUL-620-TP)
transport coefficients of nitrogen from 5000 to 13000°K, 24:47254
transport coefficients of partially degenerate, calculation of, 22:48108
transport coefficients of partially ionized hydrogen, (T), 23:12835
transport coefficients of partially ionized krypton and xenon, (T), 23:20927
transport coefficients of partially ionized, in magnetic fields, (T), 23:23147
transport cross sections for hydrogen, inelastic, (T), 23:12823
transport cross sections for screened and cutoff Coulomb potentials, (T), 23:14797
transport equation for magnetized, frequency-dependent, (T), 24:51664
transport equation for relativistic, solution of Boltzmann, 24:32839
transport equation for, magnetic corrections to Boltzmann, 21:7234
transport equation with elastic binary collision terms, relativistic Boltzmann, (T), 24:15312
transport equations for degenerate electron gas in magnetic field, (T), 24:32838
transport equations for weakly ionized electron, 22:44158
transport equations for weakly ionized, hydrodynamic, 24:49166
transport equations for, calculation using 13-moment method, (T), 23:20913 (N-68-36317)
transport functions for cylindrical arcs, hydrogen, (E/T), 23:46462
transport in current-carrying, linear mechanism for thermal energy, (T), 24:47252
transport in magnetic quadrupole fields, 25:36086
transport in magnetoplasmadynamic arc, (E), 23:42264
transport in multipole devices, effects of magnetic field errors on, (E), 25:33261
transport in strong magnetic fields, linear response theory and irreversibility in, (T), 23:32434
transport in Tokamak TM-3, diffusion and thermal conductivity effects on, (E/T), 25:14239
transport in toroidal devices due to magnetic perturbations, (T), 25:47536
transport of charged-particle system in magnetic field, gauge-independent formalism for, (T), 24:32837
transport of flare-produced, to Earth, (E/T), 22:24171
transport parameters in solid-state, apparatus for microwave measurements of, 21:14511
transport phenomena in cesium, in thermionic and MHD generators, (T), 24:39914
transport phenomena in magnetized, effects of radiation processes on, (T), 22:52813
transport processes across strong magnetic field, elementary theory of, 22:26410
transport processes in l = 1 stellarators, effects of non-equipotentiality of magnetic surfaces on, (T), 24:12778(T) (CTO-674)
transport processes in toroidal magnetic traps, (T), 24:42644 (NP-18340)
transport processes in toroidal magnetic traps, (T), 23:25285
transport processes in toroidal magnetic traps, (T), 24:42678 (NP-18341)
transport processes in two-component fully ionized, on basis of Landau equation, 24:21794
transport processes in weakly ionized, kinetic theory of subsonic and supersonic, 24:45254
transport processes in, effects of screened Coulomb interactions on, (T), 24:28297
transport processes in, second-order contributions to, (T), 22:41593
transport processes in, summaries of conference papers on, 22:7310
transport properties and distribution function dynamics in one-dimensional models, (T), 23:34426 (N-69-22195)
transport properties in fully and partially ionized, (T), 23:27631 (SC-CR-68-3559)
transport properties in high-power arcs, hydrogen and nitrogen, (E), 24:3329 (AD-689277)
transport properties in magnetic field, solution of Dirac equation in constant orthogonal electric and magnetic fields for transverse, 23:44711
transport properties in magnetic fields, (T), 23:23156
transport properties in strong magnetic fields, (T), 23:42318
transport properties in strong magnetic fields, (T), 23:14785(T) (MATT-Trans-85)
transport properties in strong magnetic fields, (T), 24:51675
transport properties near 15,000°K, (E), 24:40071
transport properties of mixtures of, (T), 23:14794
transport properties of nonequilibrium potassium-seeded helium, at 1000 to 5000°K, (T), 24:35419
transport properties of partially ionized, 21:15165
transport properties of partially ionized argon, (T), 25:56183
transport properties of partially ionized nonequilibrium, (T), 24:21808
transport properties of partially ionized, in magnetic fields, (T), 22:9340
transport properties of rare gas—nitrogen, between 5,000 and 35,000°K, 25:25105
transport properties of rare gas—nitrogen, between 5,000 and 35,000°K, 25:25104
transport properties of rarefied, in toroidal magnetic traps, (T), 25:33264(T) (MATT-Trans-47)
transport properties of thermal nitrogen, calculation of thermal conductivity and viscosity, (T), 22:26414
transport properties of turbulent, (T), 23:42289(R) (NYO-3782-3)
transport properties of two-temperature partially ionized, (T), 23:34422 (AD-683347)
transport properties of, (T), 23:27209 (AD-680415)
transport properties of, research on, 23:1437(R) (N-68-30295)
transport properties of, use of ionization level as variable for plotting, 21:16923
transport theory for low-energy, applications to thermionic converters, (T), 21:7049
transport theory for multicomponent, 23:27626 (AD-677339)
transport theory for multicomponent, Grad method for, 24:37468
transport theory for point, curvilinear polyadic moments of Boltzmann equation for, 25:7388
transport theory for, quantum mechanical, (T), 24:3361
transport theory of partially degenerate, 23:1406 (AD-671837)
transport theory of two-temperature fully ionized, unified, 23:42327
transport toward hoops in single-ring dc device, 25:9503(R) (COO-1726-70)
turbulence from wave—particle interactions in, (T), 25:33341
turbulence growth in homogeneous, thermodynamic limits for, (T), 24:1421
turbulence in anisotropic, electromagnetic radiations from, (T), 24:47243
turbulence in argon arcs in magnetic fields, (E/T), 25:56196(R) (N-71-25028)
turbulence in astrophysical, relation to primary cosmic radiation, (T), 25:14077
turbulence in Burnout V facility, 24:45220 (ORNL-4545, pp 72-103)
turbulence in collisionless shock waves in, (E), 23:18633
turbulence in collisionless, H function for, 22:5390
turbulence in collisionless, spectra of magnetohydrodynamic, (T), 25:3096
turbulence in collisionless, strong, (T), 24:24000
turbulence in discharges, research on alkali metal, (E/T), 25:1222(R) (ORO-2454-14)
turbulence in helium positive column, (E), 24:26179
turbulence in high-beta collisionless shocks, laser scattering measurements of, 25:33257
turbulence in high-current toroidal discharges, (E/T), 23:14825
turbulence in high-current toroidal discharges, (E/T), 22:20027(T) (MATT-Trans-53)
turbulence in highly ionized magnetized, instabilities in, 25:43385(R) (N-71-12892)
turbulence in homogeneous, weak, (T), 21:15194 (MATT-496)
turbulence in homogeneous, weak, (T), 21:42147
turbulence in hydrogen, analysis using Stark broadening of spectral lines, (E), 24:35408
turbulence in low-β cesium, 21:20943 (MATT-Q-23, pp 91-179)
turbulence in magnetic fields, statistical theory of, 24:42692
turbulence in magnetically confined, at high electric fields, (T), 25:38350 (CONF-710607-64)
turbulence in magneto-, velocity space diffusion from weak, (T), 21:9573
turbulence in Q devices, one-dimensional weak, 21:35200 (CONF-670104-Pt.2, pp 349-51)
turbulence in Q devices, periodic pulling in, (T), 24:26209
turbulence in rarefied, (T), 24:3381
turbulence in shock-produced helium, (E), 22:13503

turbulence in solar flares, (T), 23:39236
turbulence in straight discharge in air, dynamics, 23:16835
turbulence in strong magnetic fields, spectra of, 24:23997
turbulence in toroidal systems, theory of, 24:37485
turbulence in toroidal-confined high-β, Stark-broadened profiles for, (E), 24:32850
turbulence in Vlasov, model equations for, 21:42144
turbulence in weakly ionized argon, hydrodynamic, 21:39972 (TID-23971, pp 123-212)
turbulence in ZETA high-current discharges, (E/T), 24:24017
turbulence in, (T), 21:29299
turbulence in, approximation theories for weak, 21:46342
turbulence in, calculation of Kolmogorov—Obukhov constant for, 21:11630 (PPL-AF-9)
turbulence in, cascade mechanism in wave—mixing processes in, (T), 24:23996
turbulence in, comparison of Dupree's perturbation theory with quasilinear theory, 24:28321
turbulence in, conference on, 24:1414
turbulence in, development of collisional-drift-wave, (E), 24:26208
turbulence in, diagram approach to theory of collisionless, 23:1446
turbulence in, electrodynamics of, 23:8605
turbulence in, electrodynamics of, (T), 23:8606
turbulence in, electromagnetic properties of, 23:6989 (NP-17705)
turbulence in, electromagnetic properties of, (E/T), 23:46459(T) (AEC-tr-7079)
turbulence in, entropy analysis of weak, 21:42062
turbulence in, equation for weak, (T), 21:13571
turbulence in, from strong wave—particle interactions, (T), 24:32859 (NP-18256)
turbulence in, Hamilton—Jacobi solutions for Vlasov equation for, 21:13593
turbulence in, kinetic equations for microscopic, 22:13513 (MPI-PAE/PL-4/67)
turbulence in, magnetohydrodynamic, (T), 24:1413
turbulence in, methods of nonlinear mechanics in weak, 24:10219 (MPI-PAE/Astro-24)
turbulence in, nonlinear theory of drift-wave and enhanced diffusion in, (T), 21:29300
turbulence in, periodic pulling in system with discrete modes, (T), 24:1417
turbulence in, production of electron beams with velocity spread of few percent for studying weak, 23:5405
turbulence in, quantum mechanical interpretation of, (T), 23:23130
turbulence in, review, 22:46194
turbulence in, review of, (T), 24:24018
turbulence in, solution of linear portion of Dupree's perturbation theory for, 23:6987 (IPP-6/65)
turbulence in, spectra of stationary electrostatic, (T), 24:42685
turbulence in, statistical theory for weak, 21:42140
turbulence in, statistical theory of, 22:5338
turbulence in, test waves in, (T), 21:33489
turbulence in, theoretical review of, (T), 24:1415
turbulence in, theory for, 21:37507
turbulence in, theory for magnetohydrodynamic, 25:30517(R) (N-71-11428)
turbulence in, theory of, 21:35203(T) (NASA-TT-F-436)
turbulence in, theory of stationary-state, 22:9356
turbulence in, theory of strong, 24:28322
turbulence in, theory of strong, 24:28376
turbulence in, theory of strong trapped particle, 25:38466 (CONF-710607-60)
turbulence in, theory of weak, 22:3140
turbulence in, time-asymptotic perturbation theory for weak, (T), 25:27810
turbulence in, time-asymptotic perturbation theory for weak, (T), 25:27811
turbulence in, two-dimensional, 22:44161
turbulence in, two-stream instabilities in, (E/T), 24:1423
turbulence in, with high radiation density, excitation and spectrum of, (T), 24:25871
turbulence of low-β, in Q machines, 21:7244
turbulence of, as mechanism of pulsar radiation, (T), 24:35079
turbulence spectra and second sound propagation in, weak, (T), 24:19899
turbulence structure due to nonlinear cross-field instability in, (T), 22:20030
turbulent flow in arcs, argon and nitrogen, (E), 24:40058 (AD-705200)
turbulent processes in shock front of, (E/T), 23:46460(T) (NP-tr-1836)
use as heat source, 21:25143
use as impedance element in Fabry—Perot microwave resonator, 22:41547 (TID-24566)
use as light source, review of, 25:17149
use in cavity resonators, for resonance maintenance, (E), 23:32861 (CEA-R-3677)
use in chemical technology, 25:40613 (INR-1284)
use in production of spherical granular ceramic nuclear fuels, 23:14381(P)
use of fusion-torch, industrial, 24:3406 (WASH-1132)
use of high-temperature air, in transpiration cooling of nuclear rocket nozzles, 25:57640 (N-71-22591)
use of induction-coupled argon, for producing molybdenum, 21:16585
use of laser-produced, as spectroscopic light source, 25:30498 (N-70-41880)
use of laser-produced, for high-power microwave switching, (E), 23:12812
use of magneto-, as microwave lens, 22:10640
use of rf-generated nonequilibrium, in MHD power generator, 22:47870
uses in powder metallurgy, 25:58187(T) (SCL-T-710281)
uses of thermal, in nuclear engineering, metallurgical, 22:15156
vibrations in, review of criteria for absolute, convective, and global instability and amplification and nontransmission of, 25:36560 (ITF-70-96-P)
viscosity in strong magnetic fields, unified theory for, 25:59029
viscosity of argon, at atmospheric pressure at 3500 to 8500°K, (E), 24:49132
viscosity of collisionless magneto-, (T), 22:50149 (RISO--175)
viscosity of high-temperature cesium, 22:5334
viscosity of partially ionized hydrogen, (T), 21:37475
viscosity of stellar, relation to generation of constant magnetic fields, (T), 23:20566
viscosity ratios for high-temperature hydrogen, helium, argon, and nitrogen, (E), 24:8458
Vlasov equation and irreversibility in, (T), 24:30068
vortices in magnetic fields, properties of, (T), 24:28272 (AD-700107)
wave absorption above cyclotron frequencies, microwave, 24:49219
wave absorption and dispersion in magnetized quantum, electromagnetic, (T), 22:31830
wave absorption and emission by bounded, collisionless electromagnetic, (T), 22:29523
wave absorption and emission by charged particles in magnetized, (T), 23:1148
wave absorption and emission by hot bounded, collisionless electromagnetic, 22:3071
wave absorption and emission coefficients for optically dense, radial distribution of, (T), 22:22173
wave absorption and emission in one-dimensional, collisional, (T), 22:24280 (MATT-Q-25, pp 257-303)
wave absorption and emission in one-dimensional, longitudinal, (T), 23:23196
wave absorption and propagation in hot, ion cyclotron, (E), 22:24278 (MATT-Q-25, pp 183-99)
wave absorption and transformation in, electromagnetic, (E/T), 25:1243 (NP-18504)
wave absorption and transmission through argon and helium, skin effect in, 21:44084
wave absorption at electron cyclotron resonance in, negative electromagnetic, 22:3092
wave absorption at supercritical electron densities, anomalous microwave, (E), 24:37516
wave absorption at upper hybrid frequency, microwave, (E), 25:59091
wave absorption at upper hybrid resonance, electromagnetic, (T), 25:30616
wave absorption at upper hybrid resonance, shf, (E/T), 25:30606 (NP-18807)
wave absorption between electron cyclotron and lower hybrid frequencies, limits of, (E/T), 25:36238
wave absorption between electron cyclotron and lower-hybrid frequency, boundary of hf, 25:11927 (FTI-295)
wave absorption by bounded, electrostatic, (E), 25:49946
wave absorption by cold, boundary effects on, (T), 25:59084 (CEA-CONF-1827)
wave absorption by collisional, radiations from, (T), 23:12927
wave absorption by cylindrical, electromagnetic, (E), 21:2238
wave absorption by cylindrical, resonant-, (T), 25:40712
wave absorption by dense argon, resonant magneto-acoustic, (E/T), 25:52866
wave absorption by dense collisionless, in circular waveguide, high-power H/sub II/, (E), 23:39501 (NP-17962, pp 8-11)
wave absorption by electrons in, electrostatic, (T), 22:36898
wave absorption by hot bounded magnetized, rf, (T), 25:40699
wave absorption by inhomogeneous slab, full wave equations for electromagnetic, (T), 25:1241 (CEA-CONF-1613)
wave absorption by inhomogeneous, strong electromagnetic, (E), 25:40714
wave absorption by magnetized low-density, harmonic cyclotron, (E), 25:3145 (CEA-CONF-1607)
wave absorption by weakly turbulent, electromagnetic, (T), 25:33326(T) (MATT-Trans-105)
wave absorption by, boundary for electron cyclotron and low hybrid frequency, 25:56224(T) (AEC-tr-7270)
wave absorption by, effect of external dc electric fields on microwave, (T), 25:30628
wave absorption by, resonant microwave, (T), 25:33344
wave absorption due to plasma resonance in transient layer, surface, (T), 24:5188
wave absorption in air, argon, and carbon dioxide, microwave, (E/T), 24:51756
wave absorption in axially nonuniform magnetic fields, lf electrostatic, (T), 24:47282
wave absorption in bounded magneto-, electromagnetic, (T), 25:22553
wave absorption in bounded, electron-cyclotron, (T), 24:49215
wave absorption in collisionless, anomalous dissipation of energy from micro-, (E/T), 25:40717
wave absorption in collisionless, electromagnetic, (E), 23:34487
wave absorption in collisionless, instabilities from anomalous, (T), 24:40154
wave absorption in confined, cyclotron, (T), 24:3413(T) (AEC-tr-7073)
wave absorption in confined, electron cyclotron, 23:7020
wave absorption in cylindrical argon, measurement at 27 MHz, 21:16925
wave absorption in cylindrical column of cold magnetized, electromagnetic, (T), 25:59088
wave absorption in heterogeneous layer of, ion hybrid, (T), 25:11928 (IAE-1949)
wave absorption in hf discharge, electron cyclotron resonance, 22:13476
wave absorption in inhomogeneous collisionless, electromagnetic, (T), 24:18013
wave absorption in layers of nonuniform, electromagnetic, 22:1243
wave absorption in magnetic fields greater than cyclotron field, ultrahigh-frequency, 22:44088 (NP-17560)
wave absorption in magnetic fields, effect of collisions on, (T), 25:1251
wave absorption in magnetic fields, micro-, (T), 24:17989
wave absorption in magnetic mirror compression experiment, electron cyclotron resonance, (E), 23:20958
wave absorption in magneto-, electromagnetic, 22:1228
wave absorption in magneto-, helical configuration from micro-, 21:18693
wave absorption in magneto-, in ion cyclotron resonance, 21:15099
wave absorption in magneto-, ion acoustic, (T), 23:12933
wave absorption in mirror-confined, equilibrium density and temperature profiles in, (T), 25:40707
wave absorption in nonisothermal, anomalous, (T), 25:14373
wave absorption in nonuniformally magnetized, electron cyclotron resonance, 25:33342
wave absorption in nonuniformly magnetized, resonant, (T), 23:18684 (CONF-680113-(Vol.1), pp 119-43)
wave absorption in partially ionized, electromagnetic, (E/T), 22:24333
wave absorption in positive column, resonances in micro-, 21:2245
wave absorption in reflecting skin of collisionless, light, (T), 23:23221
wave absorption in reflex discharge, micro-, 21:11646
wave absorption in slightly ionized, negative cyclotron, (T), 24:24098
wave absorption in strongly inhomogeneous, electromagnetic, (T), 23:46507(T) (AEC-tr-7070)
wave absorption in strongly inhomogeneous, electromagnetic, (T), 23:23190 (FTI-104)
wave absorption in toroidal hard-core configuration, hydromagnetic, (E/T), 25:3148 (CEA-CONF-1614)
wave absorption in weakly ionized gas near electron cyclotron harmonics, radio-, (E), 24:17984
wave absorption in zero-temperature nonuniform, resonant, (E/T), 23:23197
wave absorption in, Cherenkov and cyclotron radiation effects on electromagnetic, 21:3858
wave absorption in, Doppler broadening of cyclotron resonance, 21:39972 (TID-23971, pp 123-212)
wave absorption in, effects of neutral atoms on light, (T), 23:25390 (AD-677375)
wave absorption in, electrostatic, (E), 21:35159 (CONF-670104-Pt.2, pp 475-89)
wave absorption in, energy parameters from electromagnetic, (E), 23:34478(T) (NP-tr-1788)
wave absorption in, holographic measurement of light, (E), 22:22178
wave absorption in, negative cyclotron resonance, 22:34639(R) (AD-665886)
wave absorption in, noise spectrum of rf, (T), 23:51733
wave absorption in, quantum theory of rf, 24:15310
wave absorption in, rf, 22:9307 (TID-24203, pp 53-71)
wave absorption near electron cyclotron frequencies, electromagnetic, (E), 24:5186 (CONF-690619-16)
wave absorption near electron cyclotron harmonic frequencies, (T), 22:39089
wave absorption near harmonic of electron cyclotron frequency, electromagnetic, 21:29264
wave absorption near hybrid resonance in weakly ionized nonuniform, electromagnetic, 23:3509
wave absorption near ion-electron lower hybrid resonance, thermal corrections for, (T), 25:22567
wave absorption near lower hybrid frequency, rf, (E), 24:37517
wave absorption near natural frequency, anomalous micro, (E), 25:40718
wave absorption near second harmonic of electron cyclotron frequency, (E), 22:26394
wave absorption spectrum in resonant cavities, 22:22164
wave amplication in, neutral acoustic, (T), 24:12870
wave amplification and instabilities in, cyclotron-harmonic, (E), 23:25400
wave amplification and suppression in, ion acoustic, (E), 23:34414
wave amplification due to large-amplitude electron oscillations, (E/T), 25:49945
wave amplification in argon, parametric Alfven, (E), 24:45293
wave amplification in beam—plasma system, ion, (T), 25:7428
wave amplification in cold, by magnetoacoustic resonance, 23:10672
wave amplification in external electric fields, sound-, (T), 25:49952
wave amplification in gaseous, ultrasonic-, (T), 22:44120
wave amplification in partially ionized, rf, 21:15176
wave amplification in systems with negative energy waves, parametric, (T), 23:32536
wave amplification in, energy transformation in, 21:44095
wave amplification in, parametric pumping of electrostatic, 21:33443
wave amplification in, possibility of ion-acoustic, 21:13573
wave amplification in, pulsed microwave, (T), 23:32541
wave attenuation and dispersion in partially ionized, longitudinal, (T), 22:39068 (N-68-18703)
wave attenuation in weakly inhomogeneous, longitudinal, (T), 21:31448
wave attenuation in, dispersion relations for acoustic, (T), 25:3155
wave attenuation on surface of column, electromagnetic, (T), 23:20960
wave attenuation on surface of column, electromagnetic, (T), 22:31817
wave backscattering from random slab, electromagnetic, (T), 24:15368
wave broadening in, high-amplitude monochromatic cyclotron, (T), 25:52871

wave buildup in hf electric fields, electron Langmuir and ion-acoustic, 22:13468
wave buildup in inhomogeneous finite-β, ion cyclotron drift, (T), 25:59070
wave collisional damping in, echo, 22:17653
wave conversion at dielectric boundary of, transverse electromagnetic to longitudinal, (T), 21:5275
wave conversion from transverse to longitudinal in magnetized, (T), 24:35498
wave conversion in fluctuations in, theory of longitudinal-to-transverse, 22:44137
wave conversion in, transverse electromagnetic to longitudinal, 21:5276
wave coupling across density discontinuity in magnetized, (T), 23:12898
wave coupling across shock waves in viscous, (T), 24:28359
wave coupling and decay in, Langmuir, (E/T), 23:27656 (CEA-R-3639)
wave coupling and drift instabilities in nonuniform collisionless, hydromagnetic, (T), 23:36742
wave coupling and propagation in cylindrical column, ion cyclotron, (E), 24:21840
wave coupling and weak nonlinear resonance phenomena in cold, (T), 23:30583
wave coupling at boundary of relativistic collisionless, (T), 24:21835
wave coupling at hybrid frequencies in inhomogeneous, nonlinear, (T), 25:19747
wave coupling below second electron cyclotron harmonic in, transverse and longitudinal, (T), 21:11619(R) (AD-802270)
wave coupling below second electron cyclotron harmonic, transverse and longitudinal, 21:42051 (NP-16945, pp 139-42)
wave coupling coefficients for, Lagrangian derivation of nonlinear, 24:35485 (SU-IPR-362)
wave coupling in bounded, low- and high-frequency resonance, (E/T), 24:10576
wave coupling in bounded, parametric excitation of lf, (E/T), 24:28346
wave coupling in collisionless drifting magneto-, transverse and longitudinal, (T), 24:42734
wave coupling in column, kinetic model of Tonks—Dattner resonances in, (T), 23:18701
wave coupling in diffuse layers, neutral—acoustic and ion—acoustic, 24:17801
wave coupling in ECR discharges, nonlinear, (E), 22:34650 (TID-24491, pp 71-4)
wave coupling in high-pressure, whistler and acoustic, (T), 23:3507
wave coupling in hollow cathode in longitudinal magnetic field, ion and electron, (E), 25:52868
wave coupling in hot inhomogeneous electron, (T), 21:11643
wave coupling in inhomogeneous compressible, electromagnetic and electron acoustic, (T), 22:7323
wave coupling in inhomogeneous lossy, electromagnetic and electron acoustic, (T), 25:43404 (AD-715910)
wave coupling in inhomogeneous, electromagnetic, (E), 25:56225 (CEA-CONF-1802)
wave coupling in inhomogeneous, parametric effects of alternating field on, (T), 23:18706
wave coupling in ionospheric, E-region irregularity effects on, (E/T), 21:13453
wave coupling in magnetized, coefficients for nonlinear, (T), 21:37471
wave coupling in magnetized, modulation of electron and ion resonance, 24:32862
wave coupling in magnetized, with particle drift motions, (T), 24:3426
wave coupling in magneto-, (T), 21:33391 (AD-640237)
wave coupling in magneto-, resonant three-wave, (T), 25:47596
wave coupling in magneto-low-frequency, (E), 23:32506
wave coupling in mirror geometries, modification of electrostatic dispersion relation for, (T), 24:45264 (ORNL-4545, pp 9-37)
wave coupling in nongyrotropic, dispersion relation for electrostatic, (T), 24:35512
wave coupling in nonlinearly unstable, phase locking of, (T), 25:25192
wave coupling in nonuniform collisionless, hydromagnetic, (T), 23:12667
wave coupling in nonuniform, transverse and longitudinal, (T), 25:27825
wave coupling in Q devices, nonlinear drift, (E), 24:18002
wave coupling in quiescent cesium, drift, (E), 22:36907 (N-68-16007)
wave coupling in quiescent potassium, nonlinear drift, (E), 24:10593
wave coupling in resistive, Alfven and sound, 24:42721 (NP-18351)
wave coupling in Tonks—Dattner resonances in, hf and lf electromagnetic, (E), 22:29487
wave coupling in Van der Pol, growth rate, nonlinear saturation coefficients, and mode—mode, (E), 25:11944
wave coupling in Vlasov, longitudinal and transverse mode, 21:33425
wave coupling in warm, Lagrange solutions for three nonlinear, (T), 25:56245
wave coupling in waveguides of, electromagnetic, (T), 24:5189
wave coupling in waveguides of, fast and slow, (E), 22:26406
wave coupling in waveguides, nonlinear, (T), 22:29505
wave coupling in weakly turbulent, kinetic theory of, 22:39087
wave coupling in, at density discontinuity, 21:13582
wave coupling in, beam cyclotron instabilities from electron cyclotron and ion acoustic, (T), 25:36167
wave coupling in, coherent electron, (T), 24:26276
wave coupling in, correction formula for electromagnetic and Bohm—Gross, (T), 25:27817
wave coupling in, discontinuity formation by nonlinear lf electromagnetic and ion-acoustic, (T), 25:1244
wave coupling in, drift and externally excited ion acoustic, (T), 25:40720
wave coupling in, drift, (T), 24:3415 (N-69-33202)
wave coupling in, effects of electron scattering on ion and electron, (T), 24:40151
wave coupling in, electromagnetic and ion, (T), 21:20972
wave coupling in, grid assembly development for analyzing, 25:17241
wave coupling in, ion and electron, (T), 21:29262
wave coupling in, ion, (E), 24:26254
wave coupling in, ion-, (E/T), 25:9513
wave coupling in, kinetic equation for resonant three, (T), 23:25410
wave coupling in, nonlinear behavior of large-amplitude, (T), 23:46508 (CEA-CONF-1311)
wave coupling in, nonlinear cyclotron harmonic, 22:44173
wave coupling in, nonlinear mode, (T), 25:11943
wave coupling in, observation of nonlinear electromagnetic and electrostatic, (E/T), 25:33333
wave coupling in, one-dimensional model for, 21:44056 (NASA-SP-153, pp 25-30)
wave coupling in, possibilities of three-, (T), 24:19930
wave coupling in, radiations from two-stream instabilities in, (T), 24:23982
wave coupling in, research on nonlinear, (T), 21:44020 (ORNL-4150, pp 1-35)
wave coupling in, resonance broadening in mode, (T), 25:49950
wave coupling in, stabilization of instabilities by nonlinear ion acoustic, (T), 25:47573
wave coupling in, stimulated modulational instabilities in, (T), 24:28361
wave coupling in, three and four ion, (T), 23:36745
wave coupling in, transverse electromagnetic and electron, (T), 23:14837
wave coupling in, transverse electromagnetic and longitudinal electron, 21:42046 (AD-645745)
wave coupling theory for, nonresonantly unstable, (T), 25:14366
wave coupling to acoustic resonances in warm, high-power micro-, 22:3128
wave coupling to cyclotron harmonic resonances in, 21:42052 (NP-16945, pp 142-6)
wave damping along column of, resonator method for measuring Landau, (E), 25:30491
wave damping and echoes in, Landau, 22:44136
wave damping and entropy in, Landau, 22:17656
wave damping and excitation in, Thomson scattering measurements of magnetic field effects on, (E/T), 23:23216
wave damping and growth in, Langmuir, (E), 23:18695
wave damping and growth in, nonlinear Landau, (T), 25:56234
wave damping and noise emission in, Landau, (T), 23:51730
wave damping and phase shifts in finite conductivity, magnetohydrodynamic, (T), 24:1455
wave damping and reflection in open-ended magnetic well, Landau, (T), 25:7425 (UCRL-50900)
wave damping and velocity space diffusion in collisional, Landau, (T), 24:30364 (AD-696150)
wave damping by external hf fields, ion, (T), 25:27807
wave damping due to scattering by ion—acoustic waves, hf, (T), 24:1465
wave damping due to trapped particles in, correction term for Landau, 24:37503 (IPPJ-89)
wave damping due to trapped particles in, correction term for Landau, (T), 24:40150
wave damping from finite gyroradius coupling to ion—acoustic mode, Alfven, (T), 24:15371
wave damping in adiabatic, nonlinear Landau, (T), 25:40704
wave damping in argon, effects of electron drift on ion—acoustic, (E), 24:37514
wave damping in Born approximation for, (T), 25:36223
wave damping in cesium, Landau nonlinear, (E), 22:3065
wave damping in cesium, large-amplitude ion—acoustic, (E), 23:34482
wave damping in collisional, electron cyclotron, (E), 23:30596
wave damping in collisional, ion acoustic, 22:9358
wave damping in collisionless with gravity field, ion-acoustic, (T), 23:25418
wave damping in collisionless, asymptotic method for Vlasov equation, (T), 24:12865
wave damping in collisionless, collective, (T), 21:42105
wave damping in collisionless, large-amplitude whistler, (T), 25:40708
wave damping in collisionless, nonlinear Landau, (T), 24:18005
wave damping in collisionless, small- and large-amplitude, (E), 21:44098
wave damping in collisionless, standing wave measurement of Landau, (E), 25:27819
wave damping in collisionless, Vlasov equation for Landau, (T), 24:12866
wave damping in crossed-field electron beams and inviscid shear flow, Landau, (T), 24:15370
wave damping in current-carrying, anisotropic ion—acoustic, 22:3051
wave damping in cyclotron wave interaction experiment, Landau, (E), 25:17240
wave damping in dense, collisional effects on whistler mode of, 21:23207
wave damping in dilute, collisional corrections for Landau, 24:42722 (NP-18364)
wave damping in electron, collisional, (T), 22:24344
wave damping in fully ionized collisional, velocity space diffusion and Landau, (T), 25:17169
wave damping in fully ionized, collisional, (T), 23:42357
wave damping in fully ionized, dispersion relations for electron, (T), 25:56238
wave damping in helium—ion-contaminated xenon, electrostatic ion Landau, (T), 23:25403
wave damping in hot electron, ion—acoustic, (T), 24:49208
wave damping in infinite homogeneous, longitudinal ion mode, (T), 25:25193
wave damping in inhomogeneity of cold collisionless, electromagnetic, (T), 25:59081(T) (AEC-tr-7272)
wave damping in inhomogeneous, anomalous collisionless Alfven, 21:785
wave damping in inhomogeneous, drift-, (T), 25:59103
wave damping in inhomogeneous, Landau, (T), 25:11941
wave damping in intense inhomogeneity of cold, electromagnetic, 24:40132 (KHFTI-69/53)
wave damping in magnetized, correlation, (T), 25:40719
wave damping in magnetized, magnetic field effects on Landau, 23:1464
wave damping in magnetized, nonlinear Landau, (E), 25:1253
wave damping in magneto-, Langmuir, (T), 22:5368
wave damping in Maxwellian as $t \to 0$, Landau, (T), 22:20002
wave damping in mirror-confined, collisionless, (E), 24:19919
wave damping in nondegenerate magneto-, correlation, (T), 25:30621
wave damping in nonuniform, ion, (E/T), 23:44469
wave damping in relativistic Vlasov, Alfven, (T), 22:26376 (D-1-82-0709)
wave damping in slightly relativistic, collisional, (T), 23:30595
wave damping in turbulent, magnetoacoustic, (E), 23:34479
wave damping in uniform magnetic fields, ion—acoustic, (E), 24:26260
wave damping in variable-temperature cesium, Landau, 23:12796
wave damping in weak magnetic fields, electron, (T), 22:31809
wave damping in weakly ionized, collisional, (T), 24:30367
wave damping in xenon in uniform magnetic fields, Landau, (T), 23:34400 (ORNL-4401, pp 113-44)
wave damping in, amplitude effects on ion—acoustic, (E), 22:34637 (AD-665529)
wave damping in, collisional effects on Landau, (T), 22:24302
wave damping in, collisional effects on longitudinal, (T), 23:30594
wave damping in, controlled Landau for ion-acoustic, 21:37460
wave damping in, echoes from, (E), 25:56226 (CEA-CONF-1804)
wave damping in, effect of free-streaming particles on spatial Landau, (E/T), 22:17680
wave damping in, effect of ion—neutral collisions on large-amplitude ion-acoustic, (T), 25:19748
wave damping in, effect of Landau, on electron velocity distribution, (E/T), 23:32522
wave damping in, effect on correlation functions for, (T), 22:7324
wave damping in, effect on electron distribution function, (E), 25:27823
wave damping in, effects of electron scattering on surface, 24:51740
wave damping in, effects of nonuniformities on finite-amplitude, (T), 24:40137
wave damping in, effects of particle phase mixing on, (T), 22:31848
wave damping in, eigenfrequencies for, 24:51733
wave damping in, electromagnetic, (T), 25:43408
wave damping in, electron temperature variation effects on ion-acoustic, 21:29223 (ORNL-4079)
wave damping in, energy loss relation between spatial dispersion and Landau, 22:5346
wave damping in, heating effects from ion cyclotron harmonic, (E/T), 24:8428(R) (ORO-3778-2)
wave damping in, Landau, (T), 25:3166
wave damping in, large-amplitude electron, (E), 25:47578 (AD-715074)
wave damping in, large-amplitude electron, (T), 25:1257
wave damping in, large-amplitude spatial, 24:49207
wave damping in, large-amplitude, (E), 25:17233
wave damping in, large-amplitude, (T), 24:42723 (SIT-3785-10)
wave damping in, light contaminant effects on ion acoustic, 21:44141 (ORNL-4150, pp 71-102)
wave damping in, noncollisional, (T), 23:18688 (CONF-680113-(Vol.1), pp 499-502)
wave damping in, nonlinear and collisional effects on Landau, (T), 23:42368
wave damping in, nonlinear and collisional effects on Landau, (T), 22:52782
wave damping in, nonlinear corrections for Landau, (T), 25:25185
wave damping in, nonlinear ion—acoustic, 23:8629
wave damping in, nonlinear ion-acoustic, (T), 23:1415 (LA-3990, pp A3.1-6)
wave damping in, nonlinear Landau, (T), 23:12894
wave damping in, nonlinear Landau, (T), 25:30615
wave damping in, nonlinear theory of cyclotron, (T), 23:18712
wave damping in, observation of nonlinear Landau, (E), 25:33334
wave damping in, physical model of cyclotron, (T), 24:10578
wave damping in, quasi-linear theory for, 25:19751
wave damping in, random phase approximation for nonlinear Landau, 21:42080
wave damping in, relation of elementary collective coordinates and Vlasov equation for, (T), 24:24087 (SIT-2582-32)
wave damping in, research on quasi-static ion cyclotron, (E), 25:56233(R) (ORO-3871-6)
wave damping in, stochastic electron heating effects on hydromagnetic, 22:3073

wave damping in, Tonks—Dattner resonance, (E), 22:39133
wave damping in, transverse electromagnetic, (T), 23:23213
wave damping near ion gyromagnetic frequency, nonlinear electromagnetic, (T), 23:18686 (CONF-680113-(Vol.1), pp 379-90)
wave damping on surface of mercury, microwave analysis of, (E/T), 24:35392
wave decay in xenon column, spectrum of Langmuir, 23:14822
wave decay in, nonlinear cyclotron harmonic, (E), 24:51748
wave decay instability in, excitation of oscillations in, 21:42053
wave decay into Bernstein mode and ion acoustic wave, (E), 25:47590
wave decay into ion acoustic waves in, neutral, 23:1472
wave detection in, by observing discharges, electromagnetic, (T), 22:3090
wave diffraction by ideal conducting wedge in anisotropic, solution for cylindrical, (T), 23:1458
wave diffraction by metal plates in anisotropic, electromagnetic, 21:25121
wave diffraction by wedge in anisotropic, electromagnetic, (T), 23:8620
wave diffraction in active, theory of electromagnetic, 23:46519
wave diffraction on half-plane in cold anisotropic, (T), 23:14851
wave diffraction on impedance wedge in anisotropic, electromagnetic, (T), 24:17998
wave diffraction on ionospheric, electromagnetic, (T), 22:36810(T) (N-68-22366)
wave diffraction on radially inhomogeneous, electromagnetic, (T), 22:36943
wave diffraction on two parallel radial nonuniform cylinders of, plane electromagnetic, (T), 22:36889
wave disintegration in electron, Langmuir, (E/T), 23:51734
wave dispersion and damping in uniform magnetic fields, electrostatic ion, (E), 24:26253
wave dispersion in collisionless, (T), 21:15157
wave dispersion in highly ionized argon magneto-, ion—acoustic, (E/T), 22:52783
wave disturbances in positive column, large-amplitude, (T), 25:9529
wave echo calculations for, higher-order temporal and spatial, (T), 24:10584
wave echo decay in, test particle analysis of, (T), 22:44170
wave echo excitation by two cyclotron waves in collisionless, longitudinal, (T), 24:15361
wave echo generation in, electromagnetic, (T), 23:23215
wave echo phenomena in highly ionized, cyclotron, 22:46154
wave echo phenomena in, physical mechanisms of cyclotron, (T), 23:46520
wave echo theory for, 24:12856 (ITF-69-68)
wave echoes from column, electron cyclotron, (E/T), 24:32867
wave echoes from electron cyclotron, (E/T), 23:46512 (SU-IPR-311)
wave echoes from rare-gas afterglow, near upper hybrid resonance, (E), 24:40139
wave echoes in cesium, cyclotron frequency, (E), 24:8492 (UCRL-19085)
wave echoes in cesium, cyclotron, (E/T), 25:14387
wave echoes in collisionless magnetized, temporal, (T), 23:32530
wave echoes in collisionless, amplitude of, 24:19926
wave echoes in collisionless, effects of pulse length on spatial, (T), 25:3154
wave echoes in collisionless, saturation and damping of, (T), 24:42742
wave echoes in collisionless, standing wave measurement of, (E), 25:27819
wave echoes in collisionless, theory for nondamping, 25:3164
wave echoes in dc discharge, ion acoustic, (E), 23:42364
wave echoes in inhomogeneous magnetic fields, E—H cyclotron, (T), 25:52870
wave echoes in low density magnetized, electron cyclotron, (E/T), 24:3418(R) (SU-IPR-336)
wave echoes in magnetic fields, (E/T), 23:27662
wave echoes in magnetized column, electron cyclotron, (E), 25:49935
wave echoes in magnetized, quasi-static, 24:28377
wave echoes in nonequilibrium, low-frequency, (T), 25:25194
wave echoes in nonequilibrium, temporal and spatial, (T), 24:24086 (ITF-69-93)
wave echoes in one-dimensional, cross modulation of supraluminous, 24:42731
wave echoes in relativistic, frequency effects on, (T), 25:19739
wave echoes in temporal, effect of collisions on, (T), 23:39515
wave echoes in trapped, in electrostatic wells, (E), 24:1460
wave echoes in weakly turbulent electron, (T), 24:28370
wave echoes in, analysis of temporal using resolvent kernel method, 24:24093
wave echoes in, collisional effects on spatial ion-, (T), 24:35514
wave echoes in, collisional effects on temporal, (T), 25:19755
wave echoes in, cyclotron resonance, (E/T), 23:25393 (AD-678840)
wave echoes in, cyclotron-harmonic, (T), 22:52798
wave echoes in, damping of, (T), 25:3144 (CEA-CONF-1601)
wave echoes in, detection of, (E/T), 25:27800
wave echoes in, E—H cyclotron, (T), 24:51735
wave echoes in, effect of Coulomb collisions and microturbulence on, 23:1479
wave echoes in, effect of electron—neutral collisions on spatial, 24:51745
wave echoes in, effect of Fokker—Planck collisions on, (T), 24:10537
wave echoes in, effect of noise broadening on trapped-particle, (T), 25:43409
wave echoes in, effects of collisions on spatial, (T), 24:21814
wave echoes in, electromagnetic, (T), 24:35505
wave echoes in, exact test-particle propagator of Lenard—Bernstein equation for, (T), 25:59087
wave echoes in, excitation by two cyclotron waves, (T), 23:36743
wave echoes in, higher-order temporal and spatial, (T), 25:9534
wave echoes in, initial value solutions for, (T), 23:23195
wave echoes in, nonlinear theory for, 25:36216 (ITF-70-56)
wave echoes in, observation of ballistic electron, (E/T), 24:35486
wave echoes in, observation of, (E), 22:31845
wave echoes in, properties of ion acoustic, (E/T), 25:30611
wave echoes in, saturation of spatial, (T), 25:47594
wave echoes in, second-order perturbed distribution in, (T), 24:42736
wave echoes in, spacial theory of, 24:15356 (ITF-69-84)
wave echoes in, spatial and temporal cyclotron harmonic, (E), 23:27603 (MATT-Q-26, pp 1-141)
wave echoes in, spatial ballistic theory for, (T), 25:33328
wave echoes in, spatial ion, (E/T), 23:23214
wave echoes in, temporal, (T), 23:36746
wave echoes in, theory for spatial, 25:9519
wave echoes in, theory of temporal, 24:45297
wave echoes in, theory of three-momentum oscillations in, (T), 24:28374
wave echoes in, theory three-momenta vibrations, 24:12857 (ITF-69-73)
wave echoes in, transverse, (T), 23:16845
wave echoes in, transverse, (T), 23:25392 (AD-678350)
wave echoes in, two- and three-pulse electron cyclotron, (E), 23:32504(R) (SU-IPR-283)
wave echoes near upper hybrid resonance, temporal, (T), 24:40140
wave effects on charge-particle drifts in, electromagnetic and ion cyclotron, (T), 24:18003
wave emission along magnetic field from helium, electron cyclotron damping in micro-, (E/T), 23:25409
wave emission from dense, microwave, (T), 25:33345
wave emission from density inhomogeneities in, supraluminous, (T), 23:44422
wave emission from magneto-, Alfven and magnetoacoustic, 21:15147
wave emission from rotating neutron-star, (T), 23:34183
wave emission from weakly ionized xenon, cyclotron harmonics from electromagnetic, 21:2246
wave energy and momentum in nonuniform, (T), 23:34472 (AD-682315)
wave energy and momentum in nonuniform, (T), 23:44474
wave enhancement in argon hollow cathode discharge, drift, (E), 24:26285
wave enhancement in H—He, ion cyclotron, (T), 22:50148 (N-68-18485)
wave equation approximations for nonlinear electrodynamics and optics, (T), 23:36735 (NP-17915)
wave equation approximations for nonlinear solutions in, 24:21827(T) (AEC-tr-7135)
wave equation for inhomogeneous warm, gradient coupling in, 22:17642
wave equation for lossy warm anisotropic, dyadic Green function for, 24:12793
wave excitation and damping in, collisional drift, (E/T), 24:5192
wave excitation and damping in, drift, 21:16924
wave excitation and damping in, ion and pseudo-acoustic, (E), 24:40149
wave excitation and detection in nonisothermal, ion, (E), 24:51755
wave excitation and detection in, Landau, 22:3120
wave excitation and free-streaming electron bursts in, (E/T), 25:47595
wave excitation and growth in beam—plasma system, (E), 24:8502
wave excitation and growth in cold, electrostatic, (T), 24:42720 (EUR-CEA-FC-541)
wave excitation and growth in electron beam—plasma system, (T), 25:3157
wave excitation and higher-order resonances in, parametric, (E), 24:47286
wave excitation and instabilities in heated, (T), 23:48943 (CEA-R-3862)
wave excitation and interactions in, ion—acoustic soliton, (E), 24:37518
wave excitation and interactions in, kinetic equations for, 23:3467(T) (NP-tr-1678)
wave excitation and ion heating in magnetic beaches, ion cyclotron, (E), 25:56231 (N-71-25439)
wave excitation and ion sheath evolution from electrodes in, ion—acoustic, (T), 24:49205
wave excitation and propagation along magnetic field, electromagnetic, (T), 25:22568
wave excitation and propagation in gas discharges in noble gas, 21:44101
wave excitation and propagation in weakly turbulent, electromagnetic, (T), 21:18714
wave excitation and propagation in, beam-induced, (T), 21:16942
wave excitation and quenching in, longitudinal, (T), 23:36748
wave excitation and spatial response in, ion-acoustic, (E), 25:17225
wave excitation and stabilization in rf, ion acoustic, (E), 25:25183
wave excitation and stabilization in rf, ion-acoustic, 25:19744
wave excitation and turbulence effects from macroinstabilities in, (T), 25:36164 (TID-25713)
wave excitation at electron cyclotron resonance, nonlinear, (T), 24:49218
wave excitation at magnetic boundaries of, (T), 22:19999
wave excitation at upper hybrid frequency in inhomogeneous, harmonic, 25:9521
wave excitation by anisotropic energy distributions in, research on, (E/T), 25:45493(R) (COO-1695-34)
wave excitation by anisotropic energy distribution produced by electron cyclotron resonance, (E/T), 23:42334(R) (COO-1695-19)
wave excitation by antenna in hot, electroacoustic, 21:46329
wave excitation by Cherenkov and cyclotron coupling in beam—plasma system, Bernstein, (E), 25:56241
wave excitation by cluster of transverse waves, nonlinear, (T), 24:10587
wave excitation by collisional instabilities in partially ionized mercury, (E), 25:27802
wave excitation by counter-streaming electron beams, stability of nonlinear, (T), 24:42739
wave excitation by coupling between transverse and longitudinal fields, electron, 25:59101
wave excitation by current pulses in, acoustic, (E), 23:5417
wave excitation by current pulses in, sound-, (E), 23:51720(T) (JPRS-46949, pp 33-42)
wave excitation by currents in, anomalous resistance during ion—acoustic, (T), 24:32863
wave excitation by different electron and ion temperatures, low frequency, (T), 25:59069
wave excitation by electric fields, ion acoustic, 22:9347
wave excitation by electromagnetic waves in, cyclotron harmonic, (E), 23:18714
wave excitation by electromagnetic waves in, ion-acoustic, 22:15521
wave excitation by electromagnetic waves, acoustic, (T), 24:40142
wave excitation by electron cyclotron resonance radiations, (E/T), 23:48944(R) (COO-1695-24)
wave excitation by electron cyclotron resonance radiation, 23:1408(R) (COO-1695-13)
wave excitation by electron cyclotron resonance, instabilities from, (E/T), 24:8490(R) (COO-1695-25)
wave excitation by electron cyclotron resonance, ion—acoustic, 24:42727
wave excitation by electron drifts in magnetic fields, ion cyclotron, (T), 25:33338
wave excitation by external fields, conditions for optimum, 24:17994
wave excitation by fast electrons in inhomogeneous, cyclotron harmonic, (E/T), 24:30363 (AD-685766)
wave excitation by grid in, pseudo-, (E/T), 22:48124
wave excitation by grids above ion plasma frequency, (E/T), 24:18008
wave excitation by grids in collisionless, ion, (E/T), 25:59095
wave excitation by grids in, ion burst, (T), 25:5122 (COO-2059-4)
wave excitation by grids in, ion-acoustic, (T), 25:19742
wave excitation by grids in, longitudinal, (T), 21:33362 (MATT-Q-24, pp 197-334)
wave excitation by grids in, symmetry considerations for ion—acoustic, (E), 24:26272
wave excitation by helical beam in, ion cyclotron, (T), 24:3439
wave excitation by hf electric fields, electrostatic, (T), 24:28369
wave excitation by hf waves in, ion—acoustic, 23:1410 (JINR-P9-4042)
wave excitation by interpenetrating electron beams, dispersion relations for, 24:45296
wave excitation by ion acoustic waves, electron, (E/T), 24:47283
wave excitation by large-amplitude lf waves in, hf, (T), 22:31808
wave excitation by longitudinal acoustic waves in, transverse electromagnetic, (T), 25:25190
wave excitation by nonlinear mixing of two strong microwaves in magnetized, harmonic, (T), 25:47589
wave excitation by nonlinear wave—wave interactions in, transverse, (T), 23:23219
wave excitation by oscillating electric fields, parametric, (T), 25:17231
wave excitation by plane grid capacitors in collisionless, Bernstein modes of, (T), 25:17238
wave excitation by probe antennas in bounded, electron cyclotron and electrostatic, (E), 25:36241
wave excitation by pseudowave packets, Cherenkov ion acoustic, (E), 25:49944
wave excitation by pulsed dipole antennas, at upper hybrid resonance, 25:49802
wave excitation by relativistic electron beam interactions, electromagnetic, (T), 25:49931 (NP-18982)
wave excitation by shf fields, recording of, (E), 24:51617 (NP-18471)
wave excitation by single voltage pulse in, multiple pseudo-, (E/T), 23:42235 (ORNL-TM-2656)
wave excitation by single voltage pulse, multiple pseudo-, (E), 24:28368
wave excitation by step electric fields, ion acoustic, (E), 25:22566
wave excitation by stochastic processes in, nonlinear, 24:21841
wave excitation by supercritical electric fields, hf, (T), 25:30625
wave excitation by temperature modulation in, acoustic, (E), 23:25404
wave excitation by transverse waves in, Langmuir, (T), 25:14370
wave excitation by trapped electrons in, BGK solution for ion acoustic, 25:7424 (IPPJ-99)
wave excitation by two nonuniform electric fields in magneto-, 24:17991

wave excitation by uhf electric fields, parametric, (T), 23:51726
wave excitation during electron cyclotron heating, lf, (E), 25:14343
wave excitation from thermal fluctuation at drift wave frequencies in, parametric, 22:44174
wave excitation from two-stream instabilities in, (T), 23:1417 (LA-3990, pp A6.1-9)
wave excitation in afterglow, electroacoustic resonance densities in, (E), 24:3423
wave excitation in beam—plasma system, Bernstein mode, (E), 25:25179
wave excitation in beam—plasma system, electromagnetic, (T), 25:36235
wave excitation in beam—plasma system, finite amplitude electrostatic, (T), 25:43365
wave excitation in beam—plasma system, ion-, (E), 25:14378
wave excitation in beam—plasma system, kinetics of, (E), 24:15300
wave excitation in beam—plasma system, longitudinal, (T), 25:56232 (NP-19020)
wave excitation in beam—plasma system, nonlinear, (T), 24:19925
wave excitation in beam—plasma system, nonlinear, (T), 25:52872
wave excitation in beam-plasma system, ion-acoustic, (E), 25:1247
wave excitation in beam-plasma system, longitudinal, (T), 24:3373
wave excitation in bounded cold magnetized, space and surface, (T), 23:39508
wave excitation in bounded magnetized, by modulation of ion resonances, (E), 23:42365
wave excitation in bounded, by external fields, 22:13474
wave excitation in bounded, parametric, (E/T), 25:22559
wave excitation in bounded, radial ion resonances in, (E), 24:26273
wave excitation in C stellarator, ion cyclotron, (E/T), 23:51721 (MATT-673)
wave excitation in C stellarator, ion cyclotron, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
wave excitation in cold nonuniform magnetized, harmonic, (T), 25:9523
wave excitation in cold, extraordinary, (T), 24:26251
wave excitation in collisional, drift, (E), 23:27659 (N-69-18189)
wave excitation in collisionless, density gradient drift, (E), 24:35372(R) (UCB-34-P-128-14)
wave excitation in collisionless, ion-acoustic and solitary, (T), 25:17220 (CU-3954-7)
wave excitation in column at resonance, harmonic, (E), 23:18705
wave excitation in column of, using external ring source, (E), 22:24332
wave excitation in compressible, acoustic and electromagnetic, (T), 21:7248
wave excitation in compressible, electro—acoustic lateral, (T), 21:20977
wave excitation in compressible, equivalence relations and, 22:1201
wave excitation in crossed electric and magnetic fields, cyclotron resonance instability in rotating, (T), 25:17199
wave excitation in current-carrying, electromagnetic, 22:9350
wave excitation in cylindrical anisotropic, traveling wave antenna for, 25:56254
wave excitation in cylindrical, magneto-acoustic, (T), 24:51757
wave excitation in cylindrical, torsional Alfven, (E), 23:30530
wave excitation in dc magnetic fields by microwaves, 22:7303
wave excitation in discharge, microwave harmonic, (E/T), 22:31834
wave excitation in discharge, Tonks—Dattner resonances in, (E/T), 24:37511
wave excitation in electron cyclotron resonance heated, (E/T), 23:10683 (COO-1695-14)
wave excitation in electron-cyclotron-resonance-heated, (E/T), 24:30351(R) (COO-1695-26)
wave excitation in electron-cyclotron-resonance-heated, research on, 22:39138(R) (COO-1695-10)
wave excitation in external electric fields, ion cyclotron, (T), 23:14845
wave excitation in fast z-pinch, ion—acoustic, (E), 25:7380(T) (MATT-Trans-102)
wave excitation in fully ionized, theory of electrostatic, 25:33336
wave excitation in gas-discharge, in magnetic fields, (T), 22:3102
wave excitation in hf discharges, drift and ion acoustic, 24:45298
wave excitation in hf electric fields, ion—acoustic, (T), 24:12869
wave excitation in hollow-cathode arcs, relation to anomalous diffusion, 25:17229
wave excitation in infinite cylindrical column of, edge effects on magnetoacoustic, (E), 25:59089
wave excitation in inhomogeneous magnetic fields, cyclotron frequency, (T), 25:49932(T) (ORNL-tr-2495)
wave excitation in inhomogeneous magnetized, second harmonic, (E), 25:25177
wave excitation in inhomogeneous slab, longitudinal, (T), 22:24300
wave excitation in inhomogeneous, by external electric fields, (T), 25:17224
wave excitation in inhomogeneous, optimum second harmonic, (T), 24:51732
wave excitation in inhomogeneous, parametric, (T), 25:27814
wave excitation in magnetic fields, parametric, (T), 23:14831
wave excitation in magnetized by electric fields, growing modes in, (T), 24:51751
wave excitation in magnetized column of, bulk, (T), 22:29496
wave excitation in magnetized, by transverse electromagnetic waves, (T), 25:9518
wave excitation in magneto-, exothermal, (T), 22:52791
wave excitation in magneto-, from electron—ion beam interactions, (T), 21:7264
wave excitation in magneto-, unstable synchrotron, (T), 25:47591
wave excitation in mercury discharge, nonlinear effects on parametric, (E), 25:49949
wave excitation in MHD waveguides, by coaxial waveguide, 21:15152
wave excitation in nitrogen, effect of collision on, 22:39106
wave excitation in nitrogen, effect of collisions on harmonic, (T), 23:23217
wave excitation in nonisothermal, oblique ion, (E), 23:32542
wave excitation in nonlinear, self-, (T), 24:24090
wave excitation in nonuniform electric and magnetic fields, sum-and-difference frequency generation in, (T), 23:18709
wave excitation in nonuniform, ion-acoustic, 22:3084
wave excitation in Q devices by grids, (E), 24:26270
wave excitation in Q devices, Green function for ion—acoustic, 24:26268
wave excitation in Q devices, ion acoustic, 22:41571(R) (TID-24563)
wave excitation in Q devices, ion acoustic, (E/T), 25:40709
wave excitation in Q devices, ion—acoustic, (E/T), 24:26277
wave excitation in resistive, drift, (T), 23:30597
wave excitation in rf discharges, space-charge, 23:5406
wave excitation in rf discharges, space-charge, (E), 23:44408
wave excitation in rf, ion—acoustic and drift, (E), 24:26264
wave excitation in rf, self-excited ion—acoustic, (E), 23:44479
wave excitation in rotating, ion cyclotron, (E), 23:51725
wave excitation in single-ended Q devices, effects of biased grid on, (E), 24:26267
wave excitation in slab, parametric, (T), 23:32537
wave excitation in space-charge-neutralized cesium, longitudinal electrostatic, (E), 25:22563
wave excitation in stellarator-confined, fast magnetoacoustic, 22:7275(T) (MATT-Trans-43)
wave excitation in strong hf electric fields, parametric resonance, (T), 25:14376
wave excitation in toroidal magnetic traps, heating by ion cyclotron, (E), 25:7359
wave excitation in toroidal under turbulent heating, ion acoustic, 24:19924
wave excitation in turbulent pulsating, dissipative spectral transfer in, 24:19921
wave excitation in weak magnetic fields by virtual transmitters, ion—acoustic, (E), 24:45291 (ORNL-4545, pp 104-15)
wave excitation in weakly ionized in electric fields, electrostatic ion cyclotron, (T), 23:27666
wave excitation in weakly ionized, Hall current effects on ion, (T), 21:2243
wave excitation in weakly ionized, ion acoustic, 23:10662
wave excitation in weakly ionized, parametric, (T), 25:49943
wave excitation in, amplitude oscillations of large amplitude ion-acoustic, (E), 22:24327
wave excitation in, anisotropic temperature effects on cyclotron harmonic, 23:3493
wave excitation in, Bernstein, (E/T), 25:11934
wave excitation in, by external currents, 21:44110
wave excitation in, by external currents, (T), 21:33439
wave excitation in, by upper hybrid resonance microwaves, 22:34636 (AD-665527)
wave excitation in, charged-particle beam induction of ion—acoustic, (T), 21:20950
wave excitation in, collisionless electrostatic shocks from ion acoustic, (E), 24:15357
wave excitation in, coupled electromagnetic, (T), 22:29508
wave excitation in, dielectric tensor analysis of, (T), 22:26377 (NP-17429)
wave excitation in, echoes from, 21:35187
wave excitation in, effects of bunched ion bursts on nonlinear ion—acoustic, (T), 24:49206
wave excitation in, electron cyclotron harmonic, (E/T), 22:52811
wave excitation in, electron temperature effects on, (T), 23:44484
wave excitation in, ion acoustic, (E), 22:41619
wave excitation in, ion distribution function from ion—acoustic, (E/T), 23:25312
wave excitation in, ion-acoustic, 22:44119
wave excitation in, ion-heating mechanism of magnetoacoustic, (E), 22:3105
wave excitation in, large-amplitude, (E), 24:28372
wave excitation in, linear and nonlinear theory of grid, (T), 24:5185 (AD-691883)
wave excitation in, lumped-element line generator for low-rf magnetoacoustic, 25:36229
wave excitation in, magnetic field modulation for Alfven, 21:5297
wave excitation in, nonlinear acoustic, 22:48100 (JINR-P9-3980)
wave excitation in, nonlinear low-frequency, (E/T), 23:5413
wave excitation in, nonlinear processes in, (E/T), 22:31829
wave excitation in, nonlinear properties of higher-order resonances from, (T), 24:19929
wave excitation in, perturbed ion distributions in ion waves and echoes, (T), 24:42733
wave excitation in, power dissipated from, (T), 22:3039 (CEA-R-3288)
wave excitation in, properties of spatial ion-wave echoes from, (E), 22:11454
wave excitation in, research on ion cyclotron, (E), 22:9308 (TID-24203, pp 73-134)
wave excitation in, self-excited subharmonics from current-convective, (T), 24:24022
wave excitation in, strong turbulence theory for harmonic, 25:19723
wave excitation in, subharmonics of Tonks—Dattner resonances, (E), 23:25398
wave excitation in, temporal and spatial echoes, (T), 22:13478
wave excitation in, upper and lower hybrid modes, 22:11452
wave excitation near electron cyclotron harmonics, longitudinal, (E/T), 22:13489
wave excitation near electron cyclotron resonance, potential, (T), 24:24091
wave excitation near ion cyclotron frequency, power transfer from Stix coil for, (T), 22:39062 (N-68-11404)
wave excitation near lower hybrid resonance, magneto-acoustic, (E), 24:37520
wave excitation of, electron and ion-acoustic oscillations from electromagnetic, (E/T), 21:2254
wave excitation on dielectric—plasma interface by infinite slot antenna, 24:35517
wave excitation on surface of inhomogeneous, heating in, 24:15267 (NP-18118)
wave excitation under skin-effect conditions in nonisothermal, oblique electromagnetic wave incidence for ion—acoustic, (E), 23:51728
wave focusing in two-level, electromagnetic, (T), 23:20962
wave focusing in, electromagnetic, (T), 22:11438
wave focusing in, ion acoustic, (E), 23:34400 (ORNL-4401, pp 113-44)
wave focusing in, ion—acoustic, 22:50170
wave generation and emission in coherent, nonthermal radio, (T), 23:3207
wave generation and propagation in, ion-cyclotron, (E), 21:2192 (TID-23318, pp 127-72)
wave generation by electron cyclotron resonance in column, ion—acoustic, (E), 24:35502
wave generation by hydromagnetic turbulence, Alfven, (T), 23:5274
wave generation in anisotropic, theory of nonlinear mixed-frequency, 22:1173 (AD-647683)
wave generation in astrophysical, radio, (T), 23:34159
wave generation in inhomogeneous, in strong magnetic field, (T), 25:55923
wave growth and damping in, lf electrostatic, (E), 25:5121 (AD-709878)
wave growth and damping in, rate measurements of, 21:23225
wave growth and decay in, resonant, (T), 24:3427
wave growth in beam—plasma systems, beam modulation effects on, (E), 25:36227
wave growth in cylindrical waveguides, nonlinear electron, (T), 24:3421
wave growth in electron beam interactions with, (E/T), 24:8511
wave growth in infinite homogeneous, electrostatic, (T), 25:14384
wave growth in slab, electromagnetic, (T), 24:6564
wave growth in symmetrical double-humped velocity distributions, (T), 25:49933
wave growth in, effect of rotation on Alfven, 21:40016
wave growth in, electron—ion collisional effects on ion acoustic, (T), 25:52883
wave instabilities in auroral-zone ionospheric, (E), 23:1287
wave instabilities in magnetized, nonlinear, (T), 25:14367
wave instabilities in Q devices, periodic pulling of drift, (E/T), 24:32849 (ORO-3405-30)
wave instabilities in sheared fields, eikonal equations for drift-, 25:52869
wave instabilities in unmagnetized, driven by shear flow, (T), 24:51752
wave instabilities in, nonlinear dynamics of single nonharmonic loss-cone flute mode, (T), 24:26228
wave instabilities in, self-trapping of cyclotron, (T), 24:28364
wave instabilities in, technique for determining propagation characteristics of, (T), 24:21832
wave instabilities in, theory for hf, 25:27727
wave interaction in isotropic, electromagnetic and ion—acoustic, trapping in resonant, (T), 25:14374
wave interaction with charged particle beams in ionic, (T), 21:25152
wave interaction with Langmuir sheath in, computer simulation of reflection-like ion—acoustic, 24:37515
wave interaction with magnetospheric, nonlinear mechanisms of, (T), 25:5031
wave interactions and coupling in hot, theory for, (E/T), 24:35484(R) (SU-IPR-357)
wave interactions and excitation in, kinetic equation for, (T), 23:46509(T) (NP-tr-1678(Rev.))
wave interactions in beam—cesium plasma system, (E/T), 24:3324
wave interactions in beam—plasma system, nonlinear Bernstein, (E), 25:25189
wave interactions in beam—plasma system, three-, (T), 25:43407 (N-71-18696)
wave interactions in beam-plasma system, ion—acoustic, 25:1252
wave interactions in bounded magneto-, nonlinear, (T), 25:9514
wave interactions in bounded, magnetohydrodynamic, (T), 24:28348
wave interactions in bounded, mathematical models for nonlinear mode, (T), 24:24096
wave interactions in bounded, nonlinear electromagnetic, (T), 23:12937

wave interactions in bounded, nonlinear space and surface, (T), 23:51729
wave interactions in cold collisionless, three, (T), 24:21838
wave interactions in cold magnetized, nonlinear transverse, (T), 23:39505 (SU-IPR-303)
wave interactions in cold magneto-, synchronism and growth characteristics of nonlinear transverse, (T), 23:39506 (SU-IPR-304)
wave interactions in cold, nonlinear extraordinary, (E/T), 23:18691 (SU-IPR-264)
wave interactions in collisionless, three electrostatic, (T), 25:27812
wave interactions in discharge, ion acoustic and ionization, (E/T), 25:59098
wave interactions in homogeneous electron, three ordinary electromagnetic, (T), 25:49936
wave interactions in homogeneous magnetized, coupling in, (E/T), 24:3418(R) (SU-IPR-336)
wave interactions in homogeneous plasma, electrostatic oscillations from optical, (T), 24:35511
wave interactions in homogeneous, nonlinear properties of, (T), 23:5425
wave interactions in hot electron, three extraordinary, (T), 25:9528
wave interactions in inhomogeneous magnetized, nonlinear electron and ion, (E/T), 25:56246
wave interactions in inhomogeneous Vlasov, quasi-transverse and quasi-longitudinal, (T), 25:14388
wave interactions in ion beam—plasma system, nonlinear explosive three-wave, (T), 24:47238 (NYO-3782-4, App.14)
wave interactions in magnetized, density determination from nonlinear, (E), 23:51601 (CEA-CONF-1392)
wave interactions in magnetized, frequency multiplication in, (T), 25:36232
wave interactions in magnetized, kinetic theory of three-, 25:19737
wave interactions in magnetized, nonlinear electromagnetic, (T), 25:52882
wave interactions in magnetized, nonlinear, (T), 24:47284
wave interactions in magnetized, parametric amplification of cyclotron harmonic, (T), 23:10631 (SU-IPR-253)
wave interactions in magneto-, effect of electron density and temperature on electromagnetic, (T), 24:15359
wave interactions in magneto-, interference of characteristic, 22:34706
wave interactions in magneto-, nonlinear electromagnetic, 22:41600
wave interactions in magneto-, nonlinear electromagnetic, (T), 22:13490
wave interactions in magneto-, nonlinear processes in electrostatic, 22:1211
wave interactions in magneto-, nonlinear theory for, 21:18704
wave interactions in magneto-, quasi-longitudinal, (T), 21:13587
wave interactions in magnetoactive finite-temperature, dispersion relations for, 21:23181 (N-67-14817)
wave interactions in nonisothermal, nonlinear ion acoustic and longitudinal, (T), 24:49217
wave interactions in nonisothermal, nonlinear surface, (T), 24:18014
wave interactions in nonlinear disperse media, high- and low-frequency, 24:45292
wave interactions in nonlinear media with saturation, electromagnetic, (T), 24:10586
wave interactions in nonlinear processes of, (T), 23:16837 (CEA-CONF-1007)
wave interactions in positive column, microwave frequency electroacoustic and TEM, 22:1177 (IPP-3/54)
wave interactions in Q devices, nonlinear drift, (E), 24:26284
wave interactions in Q-device, nonlinear drift, (E), 23:51741
wave interactions in quiescent, explosive instabilities from, 24:40153
wave interactions in rarefied, nonlinear positive and negative modes of, (T), 24:6568
wave interactions in rarefied, nonlinear positive and negative modes of, (T), 24:6567
wave interactions in rarefied, self-action in magnetic fields, (T), 23:25399
wave interactions in relativistic, nonlinear effects from longitudinal and transverse, (T), 23:10648
wave interactions in semiinfinite magneto-, nonlinear, (T), 24:49216
wave interactions in simulated, explosive instabilities from, (T), 25:27736
wave interactions in static magnetic fields, electromagnetic, (T), 24:26280
wave interactions in time-dependent inhomogeneous media, hydromagnetic, (T), 24:51749
wave interactions in transverse electromagnetic fields, detonation, (T), 23:12870
wave interactions in turbulent, cascade mechanism of nonlinear, (T), 24:12859 (N-70-11953)
wave interactions in turbulent, effects of ion—ion collisions on nonlinear, (T), 24:37466
wave interactions in turbulent, ion acoustic, (T), 22:9348
wave interactions in turbulent, ion collisional effects on nonlinear Langmuir, 21:37445 (JINR-P9-3373-2)
wave interactions in turbulent, Langmuir and acoustic, 22:50144 (JINR-P9-3978)
wave interactions in turbulent, Langmuir and acoustic, (T), 23:39517
wave interactions in turbulent, nonlinear analysis of, (T), 25:7391
wave interactions in uniformly turbulent nonlinear, time evolution of, (T), 23:12907
wave interactions in warm magnetized, nonlinear cyclotron harmonic, (T), 23:7007
wave interactions in warm magneto-, nonlinear cyclotron harmonic, 22:46142 (SU-IPR-244)
wave interactions in warm, Lagrange theory for nonlinear, 25:5124 (SU-IPR-381)
wave interactions in waveguides in magnetic fields, nonlinear properties of, (T), 25:17237
wave interactions in waveguides of, resonant frequency of, 24:42732
wave interactions in waveguides, electron-beam space charge, (T), 22:34657 (TID-24491, pp 131-6)
wave interactions in waveguides, volume and surface, (T), 25:17236
wave interactions in weakly turbulent, effects on energy spectrum and frequency of Langmuir waves, (T), 22:3104
wave interactions in weakly turbulent, ion—acoustic, (T), 21:27161
wave interactions in, asymmetry of combination frequency spectrum of, 25:43410
wave interactions in, circularly polarized and electron, (T), 25:25175
wave interactions in, collisionless heating by coherent, (T), 25:38522
wave interactions in, dispersion relations for ion and electron, 22:1241
wave interactions in, dissipation effects on coupling coefficients for nonlinear, (T), 25:27815
wave interactions in, effect of collisions on nonlinear resonant three-, (T), 25:17227
wave interactions in, effect of Coulomb collisions on nonlinear transverse, (T), 22:50146 (JINR-P9-4040)
wave interactions in, effect of dissipation on nonlinear, (T), 23:27650
wave interactions in, effects of ion—ion collisions on nonlinear Langmuir, (T), 22:19963 (JINR-P9-3689)
wave interactions in, effects of ion—ion collisions on nonlinear Langmuir, (T), 24:10589
wave interactions in, electro-acoustic and TEM, (E), 23:23220
wave interactions in, electromagnetic and plasma, (T), 22:5328(T) (NP-tr-1598)
wave interactions in, electromagnetic radiations from electron, (T), 23:30591
wave interactions in, electromagnetic radiations from longitudinal, 22:5355
wave interactions in, electromagnetic, (T), 23:20965
wave interactions in, electromagnetic, plasma, and ion—acoustic, (T), 22:13488
wave interactions in, equilibrium states of three nonlinear, (T), 25:30627
wave interactions in, explosive instabilities from three-, (T), 24:30373
wave interactions in, explosive instabilities from, (T), 23:39495 (ORNL-TM-2652)
wave interactions in, explosive instabilities from negative, (T), 24:6569
wave interactions in, explosive instabilities from three, 25:33304
wave interactions in, explosive instabilities from positive and negative energy, (T), 25:5109
wave interactions in, Fokker—Planck equation for, 21:9581
wave interactions in, four-plasmon, (T), 23:44466
wave interactions in, from beam instability, 22:11479
wave interactions in, geometry and velocity space effects on collective modes in, (T), 24:19888
wave interactions in, harmonics from coherent electromagnetic, 21:2257
wave interactions in, interference of characteristic, (E), 22:19967 (NP-17342)
wave interactions in, ion acoustic and helicon nonlinear, (T), 25:30607
wave interactions in, ion and electron, (T), 23:39512
wave interactions in, isolation and amplification of difference frequency of electromagnetic, 21:18716
wave interactions in, kinetic equation for unstable or damped, 24:15328
wave interactions in, kinetic equations for two electron and one ion, 23:5407
wave interactions in, kinetic theory of positive energy, 24:35490
wave interactions in, kinetics of three, (E), 22:29490
wave interactions in, low- and high-frequency, (T), 24:28353
wave interactions in, magnetoacoustic, entropy, and normal magnetohydrodynamic, (T), 23:32532
wave interactions in, microwave and longitudinal, (E), 23:12895
wave interactions in, nature of rotational discontinuity in, (T), 23:14838
wave interactions in, nonlinear, 21:23176 (AD-637868)
wave interactions in, nonlinear coherent electron, 25:17250
wave interactions in, nonlinear electron, (T), 25:59099
wave interactions in, nonlinear hf electromagnetic and cyclotron, (T), 25:1249
wave interactions in, nonlinear Landau damping and heat wave trapping in, 24:47279 (NYO-3782-4, App.15)
wave interactions in, nonlinear Landau damping and beat wave trapping in, (T), 25:27824
wave interactions in, nonlinear positive and negative energy mode, (T), 23:32513
wave interactions in, nonlinear processes in, 21:18733
wave interactions in, nonlinear properties of four, (T), 23:18710
wave interactions in, nonlinear properties of transverse, (T), 25:33350
wave interactions in, nonlinear resonance conditions for three, (T), 25:17246
wave interactions in, nonlinear surface, (T), 23:48949
wave interactions in, nonlinear temperature effects in electron—ion, 22:3072
wave interactions in, nonlinear theory for positive- and negative-energy, (T), 24:40155
wave interactions in, nonlinear, (T), 23:23203
wave interactions in, parametric coupling in ion and electron, 21:23177 (AD-637949)
wave interactions in, phase effects in nonlinear negative-energy, 23:30586
wave interactions in, plasma and electromagnetic, (T), 22:15531
wave interactions in, positive and negative energy, (T), 22:52778
wave interactions in, positive-energy, (T), 23:23192 (IPP-6/72)
wave interactions in, quasilinear theory for nonlinear electrostatic, 21:29220 (IPP-6/56)
wave interactions in, random phase approximation for nonlinear,(T), 22:15518 (IIF-LA-6)
wave interactions in, research on, (T), 25:5125(R) (SU-IPR-389)
wave interactions in, resonance transport from electromagnetic and cyclotron, (T), 23:18713
wave interactions in, resonant four, 23:1441
wave interactions in, resonant nonlinear, (T), 24:17982 (FOA-2-2349)
wave interactions in, review of nonlinear, (T), 22:44113 (NP-17575)
wave interactions in, self-consistent weak turbulence theory for resonant three-, (T), 25:40703
wave interactions in, spectra of Langmuir, (T), 24:3432
wave interactions in, stability aspects of uhf, (E/T), 23:27608(T) (AEC-tr-7012)
wave interactions in, surface current excitation from electromagnetic and and electrokinetic, (T), 21:18738
wave interactions in, surface wave production in electromagnetic, 21:5282
wave interactions in, theory for nonlinear, (T), 23:34471(T) (AD-679686)
wave interactions in, theory for three, 24:24088 (UUIP-667)
wave interactions in, theory of magnetohydrodynamic, 25:3159
wave interactions in, transverse and longitudinal, 21:35178
wave interactions in, transverse and longitudinal, 22:13473
wave interactions in, transverse, (E), 23:32504(R) (SU-IPR-283)
wave interactions in, turbulence for strong, (T), 24:32859 (NP-18256)
wave interactions in, validity conditions of random phase approximation for nonlinear, 22:29479(T) (NP-tr-1634)
wave interactions in, with velocity-dependent collisions, (T), 21:39998 (ARL-67-0102)
wave interactions near electron cyclotron harmonics, effects on plasma spreading in, (E), 25:5132
wave interactions with argon, refractive index for light, (E), 23:42263
wave interactions with boundary of vacuum and magnetized, electromagnetic, (T), 24:21842
wave interactions with boundary of, transmission and reflection of, 25:19749
wave interactions with bounded compressible, nonlinear effects in, (T), 22:39098
wave interactions with bounded lossless, micro-, (T), 21:789
wave interactions with bounded, electromagnetic, (T), 22:46150
wave interactions with cavities and waveguides of, electromagnetic, (T), 21:27158
wave interactions with charged particles in open-ended Q devices, (E/T), 25:27693
wave interactions with charged particles in, cyclotron-frequency, (T), 25:59096
wave interactions with charged particles in, stochastic electrostatic, (T), 24:35501
wave interactions with charged particles in, turbulence from, (T), 25:33341
wave interactions with classical and quantum, electromagnetic, 22:11469
wave interactions with cold magnetized, circularly polarized electromagnetic, (T), 23:23210
wave interactions with cold rotating, cyclotron resonance in, 22:11434
wave interactions with cold, in constant longitudinal magnetic field, circularly polarized electromagnetic, 22:44110 (IPP-6/62)
wave interactions with cold, nonlinear relativistic electromagnetic, (T), 23:30582
wave interactions with collisional, multiple scattering of plane, 21:44116
wave interactions with collisionless, fast electrons from shf, 25:47585 (NP-18958)
wave interactions with collisionless, nonlinear effects in, 21:18730
wave interactions with collisionless, perturbations from electromagnetic, (T), 23:34475 (CONF-680113-(Vol.4), pp 1203-17)
wave interactions with column, deformation of resonance curves in, 25:14266
wave interactions with compressible magneto-, antenna field pattern for, 21:40005
wave interactions with compressible magneto-, reflection and transmission of electromagnetic, (T), 21:764 (AD-636493)
wave interactions with current-carrying, two-stream instability from uhf, 22:3143
wave interactions with cylindrical and slab, trapped modes of, 22:36910 (N-68-16507)
wave interactions with cylindrical, electromagnetic, (T), 22:46162
wave interactions with cylindrical, transmission of microwaves, (T), 25:19656 (EP-RR-21)
wave interactions with dense, matching technique for hf, (E), 23:42227
wave interactions with dense, nonlinear effects from laser beam, (T), 23:42317
wave interactions with dense, self-trapping of intense electromagnetic, (E), 25:36225
wave interactions with density disturbances in, electromagnetic, (T), 23:39518
wave interactions with density fluctuations in inhomogeneous magnetized, extraordinary, (T), 25:5126

wave interactions with density fluctuations in inhomogeneous magnetized, electromagnetic, (E), 25:43402 (AD-715277)
wave interactions with density gradients in inhomogeneous, Vlasov solutions for, 25:17226
wave interactions with dispersive, nonlinear, (T), 25:17223 (SU-IPR-396)
wave interactions with electron wave instability, electromagnetic, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
wave interactions with electron, echoes from, (E), 22:9319
wave interactions with electron, quantum electrodynamics of, 23:12834
wave interactions with electron, stochastic kinetic theory of strong electromagnetic, 25:52874
wave interactions with electrons in magneto-, electromagnetic, (T), 25:24977
wave interactions with electrons in, at Doppler shifted cyclotron frequency, (E), 25:43412
wave interactions with electrons in, electrostatic, (T), 23:12935
wave interactions with electrons in, electrostatic, (E), 24:8489 (CEA-R-3720)
wave interactions with electrons, ions, and waves in, Hamiltonians for, 22:31820
wave interactions with exponential density distribution, electromagnetic, (T), 25:56230 (INR-1321)
wave interactions with external electric fields, ion—acoustic, (E), 22:11432
wave interactions with fully ionized Vlasov, transverse electromagnetic, (T), 21:13581
wave interactions with galactic hydrogen, instability from electrostatic, (T), 21:29303
wave interactions with half-space, reflection and penetration of oblique p-polarized electromagnetic, (T), 25:14361
wave interactions with hf discharge, energy transmission in electromagnetic, 22:17655
wave interactions with hf electric fields in, ion, (T), 25:52867
wave interactions with hf oscillations in, ion cyclotron, 21:18703
wave interactions with highly ionized cesium, nonlinear, (E/T), 23:5434
wave interactions with hot dense, electromagnetic, (T), 25:17130
wave interactions with hot slab, penetration in, (T), 24:26261
wave interactions with imperfect Lorentz, nonlinear effects from electromagnetic, (T), 25:40722
wave interactions with inhomogeneous column of, upper hybrid resonance, (E/T), 25:14381
wave interactions with inhomogeneous layer, nonlinear electromagnetic, (T), 23:39513
wave interactions with inhomogeneous magnetized, linear transformation in, (T), 23:23191 (FTI-144)
wave interactions with inhomogeneous, nonlinear effects and energy transformation in, 22:3091
wave interactions with inhomogeneous, second harmonics from electromagnetic, 23:16843
wave interactions with ionized slab, harmonic generation in electromagnetic, (T), 22:36927
wave interactions with isotropic, complex refractive index of electromagnetic, 23:8615
wave interactions with layers of, oblique electromagnetic, (T), 23:42374
wave interactions with Lorentzian, response to ac pulse, (T), 24:40081
wave interactions with lossy, Faraday rotation of, 21:16930
wave interactions with magnetic mirror-confined, acceleration processes from hf, 21:44065 (NASA-SP-153, pp 199-216)
wave interactions with magnetized column of, transmission from electric dipoles, 25:17239
wave interactions with magnetized nonuniform columns of, longitudinal modes of, 21:9587
wave interactions with magnetized, anomalous skin effect of microwave, (E/T), 25:33337
wave interactions with magnetized, beam mixing in, (T), 23:23205
wave interactions with magnetized, cyclotron harmonic, 23:5400(R) (SU-IPR-259)
wave interactions with magnetized, cyclotron resonance, (T), 25:43403 (AD-715636)
wave interactions with magnetized, propagation of heat along acoustic, (E/T), 23:23201
wave interactions with magneto-, acceleration processes from circularly polarized electromagnetic, 21:44052 (CEA-R-3262)
wave interactions with magneto-, cyclotron echoes from, (T), 21:35151 (AD-654026)
wave interactions with magneto-, dielectric response of, (T), 21:44020 (ORNL-4150, pp 1-35)
wave interactions with magneto-, electron and ion resonance excitation in electromagnetic, 21:2223 (CEA-R-3053)
wave interactions with magneto-, electron cyclotron echoes from, (E), 24:35484(R) (SU-IPR-357)
wave interactions with magneto-, nonlinear dielectric response function and parametric instabilities in, 24:24097
wave interactions with magneto-, oblique electromagnetic, (T), 21:44099
wave interactions with magneto-, penetration of electromagnetic, (T), 24:15363
wave interactions with magneto-, radiations from, (E/T), 22:31805 (LA-DC-9540)
wave interactions with magneto-, refraction of oblique incident electromagnetic, (T), 22:19968 (NP-17343)
wave interactions with magneto-, skin effect in micro-, (T), 24:17986
wave interactions with magneto-, stimulated Brillouin effect from, 22:9345
wave interactions with magnetoionic, ion sheath effects on, 21:11638
wave interactions with moving compressible, plane electromagnetic, (T), 23:14849
wave interactions with moving, coupling of rf, 24:47280
wave interactions with nonhomogeneous magneto-, electromagnetic field properties from, 21:15151
wave interactions with nonhomogeneous magneto-, nonlinear effects of electromagnetic, (T), 23:51736
wave interactions with nonhomogeneous, rf, 21:31442
wave interactions with nonisothermal, lf resonances and averaged potential in, (T), 25:3165
wave interactions with nonisothermal, lf resonances and averaged field potential in, (T), 23:36753
wave interactions with partially ionized, electron density growth in electromagnetic, (T), 22:1246
wave interactions with partially ionized, penetration of hf electromagnetic, (T), 23:32509
wave interactions with particles in hf structures, analog calculation of, 24:37526
wave interactions with particles in nonuniform finite-pressure, Alfven, 22:15522
wave interactions with particles in turbulent, statistical theory of nonlinear, 24:12855(T) (AEC-tr-7129)
wave interactions with particles in, heating and acceleration in, (T), 23:18583 (CONF-680113-(Vol.1), pp 391-406)
wave interactions with plasmoids, forces of electromagnetic, (T), 22:9323
wave interactions with positive column, resonances from electromagnetic, (T), 21:3851
wave interactions with rare gas, shield formation in electromagnetic, (E), 23:23218
wave interactions with semi-infinite longitudinally drifting magneto-, electromagnetic, (T), 22:9320
wave interactions with shock-produced argon, skin-depth in, (E), 23:12805
wave interactions with shock-produced, electromagnetic, 22:46153
wave interactions with slab and half-space, oblique electromagnetic, (T), 25:14386
wave interactions with slab in waveguides, electromagnetic, (T), 23:25397
wave interactions with slab, oblique electromagnetic, (T), 24:32870
wave interactions with slab, oblique incident electromagnetic, (T), 25:25186
wave interactions with spherical cavities of, eigenmodes of, (E/T), 23:30588
wave interactions with stellar, self-trapping and red shift in optical, 22:34687
wave interactions with thermal cesium, nonlinear electromagnetic, 22:48131
wave interactions with theta pinch, Faraday rotation in, 22:31842
wave interactions with theta-pinch, Faraday rotation of laser, (E), 22:34613
wave interactions with toroidal, polarization of electromagnetic, (T), 25:19735
wave interactions with turbulent, effects on anomalous skin layer, (E), 22:3109
wave interactions with turbulent, hf transverse electromagnetic, 21:15139
wave interactions with two-component, reflection and transmission of lf Alfven, (T), 25:59093
wave interactions with uniformly moving, theory for electromagnetic, 21:18662 (AFCRL-66-827)
wave interactions with vacuum—plasma boundary, radiation pressure in, (T), 23:42297
wave interactions with warm magnetized, theory of, 23:12904
wave interactions with weakly ionized magneto-, nonlinear micro-, (E), 21:37462
wave interactions with weakly ionized, acoustic wave amplification in, (E), 22:19998
wave interactions with, acoustic instabilities from transverse electromagnetic, 25:17245
wave interactions with, analysis using attenuators based on ferrite resonance switches, 23:46500(T) (AEC-tr-7067)
wave interactions with, boundary effects on electromagnetic, 22:11436
wave interactions with, Cherenkov heating of electrons in, (T), 22:29466
wave interactions with, convective instabilities from electromagnetic, 21:812
wave interactions with, convective instabilities from electromagnetic, 21:15161
wave interactions with, cooperative effects in cyclotron echo phenomena in, 21:35161 (CONF-670104-Pt.2, pp 317-24)
wave interactions with, cyclotron echo radiation from, (E/T), 22:6704
wave interactions with, Darwin model for simulating electromagnetic, 25:14293
wave interactions with, dispersion of MHD and magnetosonic, 21:7216
wave interactions with, effect on microinstabilities for anisotropic ion temperatures, 25:59083 (CEA-CONF-1826)
wave interactions with, effects of varying polarizability changes on radiation pressure, (T), 23:34488
wave interactions with, electro-acoustic wave excitation by hf electromagnetic, (T), 25:40715
wave interactions with, electron entrainment in electromagnetic, 21:35180
wave interactions with, electron oscillations from electromagnetic, 21:778
wave interactions with, energy absorption in electromagnetic, (T), 22:24284(T) (AD-666147)
wave interactions with, energy exchange in electrostatic, (E/T), 22:17675
wave interactions with, energy transfer in quasi-monochromatic, (T), 22:29494
wave interactions with, equipment for high-power hf electromagnetic, (E), 22:24285(T) (AD-666148)
wave interactions with, excitation by specially-confined source, (T), 23:36747
wave interactions with, harmonics from electromagnetic, (T), 22:13498
wave interactions with, in bounded spherical cavities, (T), 23:42356
wave interactions with, in dipole magnetic fields, (E), 23:16838 (N-68-31988)
wave interactions with, in dipole magnetic fields, (E/T), 23:44405
wave interactions with, in inhomogeneous magnetostatic fields, (T), 23:18690 (CONF-680113-(Vol.2), pp 511-23)
wave interactions with, instabilities and wave excitation from electron cyclotron resonance, (E/T), 22:7328(R) (COO-1695-5)
wave interactions with, instabilities and wave excitation in, (T), 23:48943 (CEA-R-3862)
wave interactions with, instabilities from electron cyclotron resonance, (E/T), 23:48944(R) (COO-1695-24)
wave interactions with, ion density response to acoustic, (T), 21:39714 (TID-23971, pp 1-122)
wave interactions with, ion echoes from, (E), 22:13457
wave interactions with, kinetic theory of, 23:48898 (AD-689230)
wave interactions with, loss cone instabilities in helicon, (T), 25:45516
wave interactions with, low-amplitude electromagnetic, (T), 24:40144
wave interactions with, method for determination of electron collision data from transient response to, 23:32156(R) (ORO-3027-15)
wave interactions with, microinstabilities from electromagnetic, (E/T), 22:22156
wave interactions with, microwave harmonics from, 22:34630 (AD-662909)
wave interactions with, multiple echoes of longitudinal, (T), 22:19976
wave interactions with, negative Faraday rotation in, (E), 25:52865
wave interactions with, nonlinear behavior of Tonks—Dattner resonances in, (T), 25:43411
wave interactions with, nonlinear effects from electromagnetic, (T), 22:44121
wave interactions with, nonlinear effects from electromagnetic, 23:34473(T) (AD-682974)
wave interactions with, nonlinear processes in, 22:11468
wave interactions with, nonlinear processes in electromagnetic, (T), 24:24095
wave interactions with, nonlinear processes in hf electromagnetic, (T), 23:32539
wave interactions with, nonlinear relativistic electromagnetic, 21:42048 (IPP-6/58)
wave interactions with, nonlinear resonance in modulated radio, (T), 23:32243
wave interactions with, parametric amplification in, (E), 22:29507
wave interactions with, parametric effects of electromagnetic, 21:11655
wave interactions with, perturbations from electromagnetic, (T), 23:44465 (CONF-680113-(Vol.5), pp 253-69)
wave interactions with, phase mixing and spatial Landau damping of ion—acoustic, (E), 23:48945 (RISO-190)
wave interactions with, properties of low-frequency electromagnetic, (T), 21:42075
wave interactions with, pulse response and determination of collision data in, 22:22167
wave interactions with, quantum theory of, 23:36751
wave interactions with, radiation pressure on vacuum boundary of, (T), 22:31825
wave interactions with, reflection of harmonic components of electromagnetic, (T), 22:15540
wave interactions with, relativistic refinements and collective theory for electromagnetic, 22:50176
wave interactions with, remote control, heating, and diagnostic use of nonlinear electromagnetic, 25:38515 (CONF-710607-25)
wave interactions with, resonance spectra from, (E), 23:20911
wave interactions with, resonances in, (T), 22:13501
wave interactions with, self-focusing of laser, (T), 23:42293
wave interactions with, shielding response for electromagnetic, 21:13553 (AD-641899)
wave interactions with, skin effect from electromagnetic, (T), 25:33354
wave interactions with, solutions for radiations from open-ended waveguides, (T), 24:32866
wave interactions with, strong turbulence theory for electromagnetic, 22:46146 (TID-24666, pp 145-56)
wave interactions with, study of acoustic, (T), 22:50152
wave interactions with, theory for cyclotron resonance electromagnetic, 25:17221 (D-1-82-1010)
wave interactions with, theory for parametric shf, (T), 23:42353(T) (AEC-tr-7078)
wave interactions with, theory for parametric uhf, 23:42372
wave interactions with, third harmonic generation in microwave, (T), 25:30609
wave interactions, acoustic with ionization, in striated neon discharge, 23:3487
wave interferometry of phase and amplitude of transmission coefficient of, micro-, 22:44184
wave kinetics along axially magnetized column of, surface, 21:44115
wave kinetics in anisotropic, magneto-acoustic, (T), 25:36233
wave kinetics in infinite homogeneous, nonlinear processes in, (T), 24:10594
wave kinetics in Q devices, research at Aerospace Research Labs, 24:51727 (AD-708519)
wave kinetics in random media, statistical properties of, (T), 23:34481
wave kinetics in, compressitivity tensor and dispersion relations for, 24:3436
wave kinetics in, quantum theory of, 24:10551

wave linear transformation in magnetoactive, left-hand circularly polarized, (E), 24:35497
wave measurements in, Langmuir probe performance for hydromagnetic, 21:752
wave mixing in bounded magneto-, electromagnetic, (E/T), 23:27655 (AD-681121)
wave mixing in bounded magneto-, space-charge, 23:1477
wave mixing in Q machines, nonlinear ion—acoustic, (E), 24:40141
wave mixing in slab, emission of vlf waves from microwave, (T), 24:51744
wave modes in magnetized, validity of electrostatic approximation for, 24:26255
wave modes in warm cylindrical, normal, (E), 23:44470
wave motion in magneto-, imperfect boundary effects on, 21:9635
wave motions in, effects of constant gravitational and magnetic fields on, (T), 22:47781
wave multiple scattering on underdense, electromagnetic, (T), 23:30587
wave packets in hot inhomogeneous, (T), 25:17242
wave packets in weakly inhomogeneous, Lagrangian formalism for, 25:19754
wave parametric coupling in, light-, (T), 25:45513
wave phenomena in interstellar, review of, 24:3132
wave phenomena in, linearized equations for, 21:31435
wave phenomena in, review of, 22:9321
wave potential and density perturbation yields from, ion acoustic, (T), 23:1475
wave potential and density perturbations from, ion acoustic, (T), 23:34400 (ORNL-4401, pp 113-44)
wave processes in anisotropic, ion—acoustic and helicon, (T), 24:10588
wave processes in, nonlinear three-, 23:32523
wave production and amplification in, micro-, 22:5356
wave production and analysis in, research on ion—acoustic, 21:25129(R) (N-67-12223)
wave production and growth in, transition region for ion acoustic, 22:11461
wave production and propagation in C stellarator, ion cyclotron, (T), 24:18006
wave production by longitudinal fluctuations in infinite stable, nonlinear, 22:41589
wave production from probes in, harmonics of, 21:29204 (TID-23827, pp 71-134)
wave production in C stellarator, optimum ion cyclotron, (E), 22:24242 (MATT-Q-25, pp 30-117)
wave production in homogeneous, harmonics of, (T), 21:7255
wave production in inhomogeneous magneto-, nonlinear second harmonic of, (T), 21:7254
wave production in magneto-, method for, 22:36937(P)
wave production in uniform and nonuniform, ion cyclotron, 21:33405 (NASA-TN-D-4058)
wave production in varactor sheath of, harmonics of, 21:15130 (NP-16548)
wave production in warm electron, from collision coupling, (T), 21:3848
wave production in, electrostatic quasi-linear, (T), 22:34668
wave production in, hybrid ion—electron resonance, 22:5325(R) (ORO-3110-10)
wave production in, nonlinear harmonic at plasma resonances, 22:46143 (TID-24666, pp 76-82)
wave propagation above ion cyclotron frequency, electrostatic ion, (E), 25:30612
wave propagation across magnetic field in parabolic layer of, electromagnetic, (T), 25:56236
wave propagation across magnetic fields in warm collisionless, magnetosonic, (T), 23:5173
wave propagation across magnetized, effect of charged-particle streaming on electromagnetic, 23:1470
wave propagation across magneto-, charged particle thermal motion effects on Alfven, 21:2247
wave propagation along annular, electromagnetic, (E/T), 21:2236
wave propagation along axially magnetized positive column, power from surface, (T), 21:9568
wave propagation along cold collisionless axially magnetized, electromagnetic, 25:14360 (AD-711649)
wave propagation along column of weakly magnetized, space-charge, (E/T), 25:30618
wave propagation along conducting wire in magnetized, electromagnetic, (E), 25:11935
wave propagation along interface of vacuum—overdense, electromagnetic surface, (T), 25:36214 (DEMO-71/5)
wave propagation along layer of magnetized, effect of hf potential on, (T), 25:52861 (KHFTI-70/57)
wave propagation along layer of, effect of electromagnetic field pressure on, (T), 25:56235
wave propagation along layer of, large-amplitude transverse electromagnetic, (T), 23:36739
wave propagation along layers of, high-amplitude electromagnetic, (T), 23:51737
wave propagation along magnetic field of disturbance in cold two-fluid, (T), 23:12906
wave propagation along magnetic fields in multicomponent collisionless, (T), 25:1245
wave propagation along moving column of, surface electromagnetic, 23:7004
wave propagation along uniform magnetic fields, adiabatic invariants for, (T), 23:42354(R) (SIT-3785-9)
wave propagation along warm cylindrical, trapped low-frequency, (T), 24:51750
wave propagation along warm slab, trapped, (T), 23:27657 (N-69-10624)
wave propagation and absorption at electron gyroresonance in nonuniformly magnetized, electromagnetic, (T), 24:12864
wave propagation and absorption in heterogeneous layer of, ion hybrid, (T), 25:11928 (IAE-1949)
wave propagation and absorption in hot, ion cyclotron, (E), 23:27663
wave propagation and absorption in, low-frequency, (T), 23:18683 (CONF-680113-(Vol.1), pp 77-85)
wave propagation and amplification by electron beam interactions with, surface, (E/T), 24:8508
wave propagation and amplification in beam—plasma system, electrostatic, (T), 24:3376
wave propagation and attenuation in nonuniform resistive, Alfven, (T), 23:32544
wave propagation and attenuation in, ion cyclotron, (E), 21:18691
wave propagation and coupling in inhomogeneous, (T), 22:17640
wave propagation and damping in hot bounded, (T), 25:52863 (ORO-3778-6)
wave propagation and damping in relativistic, Alfven, (T), 23:12923
wave propagation and damping in uniform magnetic fields, electrostatic ion, (E/T), 24:47287
wave propagation and damping in, harmonic ion cyclotron, 24:10574 (AD-694693)
wave propagation and damping in, ion cyclotron frequency, 21:46315
wave propagation and damping in, large-amplitude ion-acoustic, (E), 22:22179
wave propagation and decay in cesium, ion acoustic, (E), 25:49948
wave propagation and dispersion in magneto-, hydromagnetic and ion cyclotron, (E/T), 22:36906(R) (N-68-15521)
wave propagation and dispersion in, ion acoustic, 21:44073
wave propagation and formation of collisionless electrostatic shocks in, ion—acoustic, (E/T), 25:14389
wave propagation and growth in partially ionized, electrothermal, (T), 24:35487
wave propagation and instabilities in finite, kinetic theory for, 24:8495
wave propagation and instabilities in magnetic traps, (T), 23:44453
wave propagation and instabilities in magnetized, hydromagnetic, 23:1467
wave propagation and instabilities in nonuniform, vlf, 24:37513
wave propagation and instabilities in positive column, (E/T), 24:3418(R) (SU-IPR-336)
wave propagation and instabilities in positive column, (E/T), 23:32504(R) (SU-IPR-283)
wave propagation and instabilities in rotating anisotropic, (T), 23:32511
wave propagation and instability theory for, 24:37512
wave propagation and interactions in Q devices, lf, (E/T), 24:32860 (ORO-3405-31)
wave propagation and properties in magnetic-mirror compression experiment, drift, 24:42726(R) (UCB-34-P-128-12)
wave propagation and properties in magnetic-mirror compression experiment, drift, 24:42725(R) (UCB-34-P-128-11)
wave propagation and reflection by moving, nonlinear electromagnetic, (T), 25:25187
wave propagation and reflection in inhomogeneous, loss-cone mode of, (T), 22:24340
wave propagation and reflection in, refractive index for, (T), 24:32871
wave propagation and reflection in, transverse cyclotron, (T), 25:11931
wave propagation and rotation in hollow-cathode arc discharges, 22:3126
wave propagation and stability, effect of impurity ions on drift, (T), 25:56243
wave propagation at angle to magnetic field in, (T), 23:18707
wave propagation at anisotropic pressures, stationary, (T), 25:59085
wave propagation at lower frequency than plasma frequency, electron, (E/T), 25:49947
wave propagation below ion cyclotron frequency in, compressional Alfven, (E), 22:26380 (NP-17437)
wave propagation below ion cyclotron frequency, compressional Alfven, (E), 22:22153
wave propagation below second electron cyclotron harmonic, resonances and wave conversion in, (T), 24:28371
wave propagation below second electron cyclotron harmonic in, coupling of transverse and longitudinal, 21:16935
wave propagation constant for filled dielectric tube, in waveguides, (T), 21:5256
wave propagation from current sources in isotropic, (T), 21:29278
wave propagation from localized source of, including Hall effect, MHD, (T), 22:31684
wave propagation in absorbing media, group velocity formulation from, (T), 23:25395
wave propagation in adiabatic, normal modes for drift, 24:28341 (AD-701402)
wave propagation in afterglow, helicon, (E/T), 24:35491
wave propagation in anisotropic electron, properties of, (T), 21:37491
wave propagation in anisotropic homogeneous, distortion of electromagnetic, 22:17645
wave propagation in anisotropic inhomogeneous, potential equations for electromagnetic, 21:23202
wave propagation in anisotropic pressure, dispersion equation for, 25:25178
wave propagation in anisotropic temperature, instability of electromagnetic, (T), 24:28343 (N-70-19273)
wave propagation in anisotropic, effect of electrostatic field on electromagnetic, (T), 24:3422
wave propagation in anisotropic, electromagnetic, (T), 24:12854 (AD-695798)
wave propagation in anisotropic, matrix solutions for electromagnetic, (T), 23:25414
wave propagation in anisotropic, quasi-linear analysis of, (T), 24:3428
wave propagation in anisotropic, transient electromagnetic, (T), 24:3430
wave propagation in anisotropic-pressure collisionless, dispersion relation for small-amplitude, (T), 24:35472
wave propagation in argon column, standing acoustic-, (E), 25:14380
wave propagation in argon positive column discharge, electrostatic, (E/T), 23:10667
wave propagation in argon positive column, electron cyclotron harmonic, (E), 24:51728 (IPP-2/84)
wave propagation in argon, electron beam probing of ion—acoustic, (E), 24:15288
wave propagation in astrophysical, (T), 22:43784
wave propagation in atmospheric, model analysis of ulf, 21:33467
wave propagation in auroral, temporal variations of ion-acoustic, (T), 25:40454
wave propagation in barium Q, effects of collisional drift waves on density in, (E), 23:44475
wave propagation in beam—plasma system, stationary ion acoustic, (T), 23:36741
wave propagation in binary mixtures, kinetic theory of, (T), 25:9533
wave propagation in bounded cold, electromagnetic, (T), 25:27804
wave propagation in bounded gyrotropic, multipolar mode of, 22:22165
wave propagation in bounded magnetized, electromagnetic, (T), 24:30368
wave propagation in bounded magnetized, nonlinear theory of, 24:37505
wave propagation in bounded magneto-, kinetic theory of electromagnetic, 22:11439
wave propagation in bounded streaming, instability of coupled longitudinal and transverse EM modes of, 22:20029
wave propagation in bounded, dispersion relations for hf, (T), 22:50160
wave propagation in bounded, effects of magnetic field strength on electrostatic, (T), 24:1461
wave propagation in bounded, hot magneto-, radiations from, 21:13565(R) (N-66-28833)
wave propagation in bounded, nonlinear effects in, (T), 23:5424
wave propagation in bounded, one-dimensional ion—acoustic, (T), 25:11937
wave propagation in cables, electromagnetic, 22:50183
wave propagation in carbon dioxide discharge, (E), 23:16797
wave propagation in cesium and mercury circular columns, electromagnetic, (E), 22:24338
wave propagation in cesium magneto-, ion—acoustic, (E), 23:32520
wave propagation in cesium, dispersion relations for drift-, (E), 25:33349
wave propagation in cesium, ion—acoustic, 21:35162 (CONF-670104-Pt.2, pp 397-409)
wave propagation in circular waveguides, TM_{01}, (T), 23:18689 (CONF-680113-(Vol.1), pp 503-10)
wave propagation in cold collisional, weak nonlinear magnetoacoustic, (T), 24:26252
wave propagation in cold collisionless magneto-, periodic, 23:1480
wave propagation in cold collisionless, relativistic effects on nonlinear, (T), 24:42744
wave propagation in cold collisionless, weak nonlinear hydromagnetic, (T), 23:32507
wave propagation in cold cylindrical, dispersion of ion cyclotron, (T), 25:52880
wave propagation in cold magnetized, over stability of, (T), 25:22556
wave propagation in cold magneto-, nonlinear constant profile, (T), 21:23197
wave propagation in cold rotating, energy absorption from electromagnetic, 21:29277
wave propagation in cold rotating, in presence of Coriolis force, 25:17249
wave propagation in cold three-component, solitary compression, (T), 25:22564
wave propagation in cold, growth rate calculations for electron—electron modes of, (T), 24:42737
wave propagation in cold, in presence of external magnetic field and Coriolis force, (T), 25:36240
wave propagation in cold, nonlinear dispersion of, 25:11940
wave propagation in cold, nonlinear effects from two transverse monochromatic, (T), 25:52885
wave propagation in cold, nonlinear effects of extraordinary, 22:44162
wave propagation in cold, nonlinear processes in electrostatic, (T), 25:30613
wave propagation in cold, oblique hydromagnetic, (T), 23:32533
wave propagation in cold, Poynting flux of electrostatic, (T), 24:28363
wave propagation in cold, reductive perturbation method for nonlinear hydromagnetic, 22:29512
wave propagation in cold, strong cylindrical, (E/T), 23:34470(T) (AD-679537)
wave propagation in collision-dominated mercury, ion—acoustic, (E/T), 23:12800
wave propagation in collision-free, echoes in, (T), 22:1224
wave propagation in collision-free, nonlinear hydromagnetic solitary, (T), 22:7284
wave propagation in collisional magnetized, lf electrostatic, (E), 24:51736
wave propagation in collisional, dispersion relations for, (T), 22:24275 (CEA-R-3413)
wave propagation in collisional, dispersion relations for lf electrostatic, (T), 24:40138
wave propagation in collisional, finite amplitude, 22:1183 (LA-3770, Paper B3)
wave propagation in collisional, kinetic theory of, 22:24301
wave propagation in collisionless argon, large-amplitude electron, (E/T), 25:30610
wave propagation in collisionless gravity-supported magneto-, ion-acoustic, (T), 25:19736

wave propagation in collisionless homogeneous, dispersion relation of nonpotential ion-harmonic, (T), 25:7429
wave propagation in collisionless hydrogen, drift-, (E/T), 25:3167
wave propagation in collisionless interplanetary, Chew—Goldberger—Low theory for, 25:45514
wave propagation in collisionless interplanetary, Chew—Goldberger—Low theory for, 25:47579 (AD-717186)
wave propagation in collisionless magnetized, trapped-particle effect on drift-, (T), 25:3149 (CEA-CONF-1616)
wave propagation in collisionless magneto-, dispersion relations for, (T), 23:12938
wave propagation in collisionless magneto-, magnitude of nonlinearities in, 21:25131 (N-67-13679)
wave propagation in collisionless nonequilibrium, drift, (T), 24:40135
wave propagation in collisionless one-dimensional, trapped-particle instabilities from, (T), 25:36180
wave propagation in collisionless Vlasov, dispersion relations for, 25:19752
wave propagation in collisionless Vlasov, dispersion relations for electrostatic, 25:19753
wave propagation in collisionless warm magneto-, hydromagnetic, 22:52810
wave propagation in collisionless with negative ions, electromagnetic, (T), 21:5296
wave propagation in collisionless, Bernstein modes in, (T), 25:47581(R) (COO-2081-5)
wave propagation in collisionless, CGL approximation for hydromagnetic, 22:5339
wave propagation in collisionless, Chew—Goldberger—Low analysis for, (T), 23:34483
wave propagation in collisionless, drift-, (E), 25:3147 (CEA-CONF-1612)
wave propagation in collisionless, dynamic stabilization of drift, (T), 25:33303
wave propagation in collisionless, exact nonlinear undamped, (T), 22:22147 (TID-24331, pp 121-52)
wave propagation in collisionless, fundamental modes of, (E/T), 22:36915 (N-68-22847)
wave propagation in collisionless, heat, (E/T), 25:45518
wave propagation in collisionless, in magnetic fields, dispersion relations for, (T), 24:15362
wave propagation in collisionless, instabilities in electrostatic, (T), 25:22542
wave propagation in collisionless, kinetic theory of hydromagnetic, 21:37464
wave propagation in collisionless, Korteweg—De Vries equation for solitary drift, (T), 25:5127
wave propagation in collisionless, large-amplitude whistler and weak electrostatic, (T), 25:52864(R) (SIT-3785-16)
wave propagation in collisionless, magnetic-compression, 21:29237
wave propagation in collisionless, nonlinear ion—acoustic, (T), 24:26279
wave propagation in collisionless, nonlinear, (T), 24:8499
wave propagation in collisionless, physical model of cyclotron damping, 21:37453 (RM-5356-PR)
wave propagation in collisionless, quasi-linear theory of hydromagnetic, 23:12896
wave propagation in collisionless, spectra of turbulence of whistlers, (T), 24:51730 (NP-18482)
wave propagation in collisionless, stability of large periodic, (T), 24:26259
wave propagation in collisionless, time-dependent structure of one-dimensional magnetic compression, 21:25132 (NASA-TN-D-3947)
wave propagation in collisionless, weak discontinuities, (T), 25:56237
wave propagation in column of, electromagnetic, (T), 22:52808
wave propagation in column, group velocity of, 25:19746
wave propagation in column, spontaneous lf longitudinal, (E/T), 25:36221
wave propagation in column, theory for electromagnetic, 24:40147
wave propagation in column, time-of-flight measurements of, 25:25184
wave propagation in compressible magneto-, acoustic, (T), 22:24317
wave propagation in compressible unbounded, ray-optical analysis of, (E/T), 22:13505
wave propagation in compressible, dispersion relations for electromagnetic, 21:44075
wave propagation in compressible, MHD, (T), 25:22561
wave propagation in compressible, refractive index for, (T), 21:9602
wave propagation in compressible, with homogeneous drift velocity and magnetic field, (T), 23:39510
wave propagation in confined, magneto-acoustic, (T), 25:22555
wave propagation in contact-ionized alkali, low-frequency, (E), 22:24325
wave propagation in coronal, stable and unstable modes of, (T), 22:2736
wave propagation in cosmic-ray, transverse electromagnetic, 22:1212
wave propagation in counterstreaming, ion cyclotron, (T), 25:5128
wave propagation in counterstreaming, linearly polarized mode, (T), 24:35466
wave propagation in counterstreaming, ordinary-mode electromagnetic, (T), 25:5129
wave propagation in counterstreaming, ordinary-mode electromagnetic, (T), 25:5128
wave propagation in current-carrying cesium, ion, 21:35164 (CONF-670104-Pt.2, pp 355-60)
wave propagation in current-carrying, surface-, 24:51758
wave propagation in cylindrical argon magneto-, electromagnetic, (E/T), 21:27130 (IPP-2/59)
wave propagation in cylindrical column of, magnetohydrodynamic, (T), 22:50161
wave propagation in cylindrical columns of, fast magneto—acoustic, (T), 24:32868
wave propagation in cylindrical electron, dispersion and damping of, (E/T), 21:35158 (CONF-670104-Pt.2, pp 463-73)
wave propagation in cylindrical magneto-, circularly polarized electromagnetic, 22:5341
wave propagation in cylindrical magneto-, trapped modes in, (T), 23:7014
wave propagation in cylindrical waveguides, hybrid electromagnetic, (E/T), 25:43405 (CERN-71-4)
wave propagation in cylindrical waveguides, measurement of, (E), 22:39077 (REIC-TR-18).
wave propagation in cylindrical, collisional effects on quasi-electrostatic, (T), 22:50126(R) (EUR-CEA-FC-352)
wave propagation in cylindrical, density gradient effects on Alfven, (E/T), 21:773
wave propagation in cylindrical, electromagnetic, (T), 21:40006
wave propagation in cylindrical, helicon, (T), 24:35495
wave propagation in cylindrical, MHD and helical, 22:3114
wave propagation in cylindrical, vacuum boundary conditions for helicon, (T), 24:5187
wave propagation in cylindrically stratified axially magnetized, transverse electromagnetic, (T), 23:36738
wave propagation in dc discharges in weak magnetic fields, low-frequency, (E/T), 25:47593
wave propagation in decaying hydrogen, compressional and torsional, 21:37450 (NP-16893)
wave propagation in degenerate electron liquid, 22:52799
wave propagation in dense, cyclotron, (T), 25:25182
wave propagation in dense, existence of thermonuclear combustion, (T), 25:27820
wave propagation in dense, ion sound turbulence in, (T), 25:43406 (JINR-P9-5846)
wave propagation in dense, ion—acoustic, (T), 21:18713
wave propagation in discharge column of, diagnostics from surface, (E/T), 21:11602 (AFCRL-66-765)
wave propagation in discharge column, ion and drift, (T), 22:26385 (SU-IPR-226)
wave propagation in discharge, acoustic, (T), 23:32534
wave propagation in discharge, electron temperature effects on ion—acoustic, (E/T), 22:13486
wave propagation in discharge, ion acoustic, (T), 22:13485
wave propagation in discharge, nonlinear theory for electromagnetic, (T), 25:38519
wave propagation in discharge, relation of acoustic to striation motion, 21:11625 (N-66-24584)
wave propagation in discharge, Tonks—Dattner resonances in electron, (E), 24:1464
wave propagation in dispersive media, nonlinear, (T), 24:3433
wave propagation in dispersive, multiple-time technique for nearly linear, 25:30622
wave propagation in drifting electron, Fresnel drag effect in micro-, (E), 24:15358
wave propagation in drifting isotropic hot, electromagnetic, (T), 21:763 (AD-636395)
wave propagation in drifting magnetized, relativistic theory for, (T), 23:16842
wave propagation in drifting warm, oblique electromagnetic, (T), 22:22183
wave propagation in drifting, spherical electro-acoustic, (E/T), 24:26265
wave propagation in drifting, whistler, (T), 22:34691
wave propagation in electric-field-immersed, (T), 23:3484
wave propagation in electric-field-immersed, damping of hf longitudinal, (T), 25:19743
wave propagation in electron, turbulence theory for, 21:2250
wave propagation in electron—ion magneto-, equations for, 21:3847
wave propagation in external magnetic fields, microwave, (E), 24:17988
wave propagation in field of magnetic monopole, Alfven, (T), 25:22562
wave propagation in finite geometry, dispersion relations for ion—acoustic, 25:9525
wave propagation in finite gyrotropic, separation constants for electromagnetic, 21:7229
wave propagation in finite temperature electromagneto-, whistler, (T), 22:36928
wave propagation in finite, kinetic theory for electromagnetic, 21:15149
wave propagation in finite, modes of electromagnetic, 21:7231
wave propagation in finite-length, lower-hybrid resonance, (T), 22:3117
wave propagation in finite-temperature magnetoactive, effect of electrostatic fields on electromagnetic, 21:46333 (N-67-19043)
wave propagation in fully ionized collisional, ion acoustic, (T), 25:56251
wave propagation in fully ionized, nonlinear effects from electromagnetic, (T), 22:52780
wave propagation in fully ionized, small-amplitude, (T), 22:17671
wave propagation in fully-ionized, small-amplitude, (T), 22:17672
wave propagation in half-space relativistic, electromagnetic, (T), 25:19740
wave propagation in half-space, surface, 24:35509
wave propagation in Hall-effect-dominated, dispersion relations for magneto-acoustic, 25:47592
wave propagation in helium discharge, near plasma cutoff, (E), 23:48953
wave propagation in helium discharge, rapid-display method for dispersion characteristics, 25:7427
wave propagation in helium magneto-, dispersion curve for drift, (E), 23:42366
wave propagation in high temperature, ultrasonic, (E), 24:10514
wave propagation in higher-order Chew—Goldberger—Low, normal modes of, (T), 24:42745
wave propagation in hollow cathode discharges, ion-, (E), 24:32864
wave propagation in homogeneous infinite, electrostatic, (T), 25:47588
wave propagation in homogeneous magnetized, electron cyclotron resonance, (E), 23:18685 (CONF-680113-(Vol.1), pp 149-60)
wave propagation in homogeneous magneto-, lf, (T), 24:51743
wave propagation in homogeneous sheath of, kinetic theory for longitudinal, (T), 25:49942
wave propagation in homogeneous, Grad's thirteen-moment approximation of small-amplitude, (T), 24:35496
wave propagation in homogeneous, reciprocal transformation of MHD, 25:38521
wave propagation in hot anisotropic electron, coupling of, (T), 21:757(R) (AD-631844)
wave propagation in hot collisionless, shock, (E), 21:783
wave propagation in hot collisionless, solution of Vlasov equations for, 24:28352
wave propagation in hot cylindrical, in inhomogeneous magnetic field, cyclotron, 22:1178 (IPP-6/60)
wave propagation in hot electron and cold ion, (T), 22:24289
wave propagation in hot electron, effect of spatially uniform external periodic magnetic field on, (T), 25:30614
wave propagation in hot magnetized, theory of electromagnetic, 23:48941 (AD-689828)
wave propagation in hot magnetized, transverse, (T), 23:30592
wave propagation in hot nonuniform, longitudinal, (E), 21:16908
wave propagation in hot, collisional magnetoplasma, equations for nonlinear electrostatic, (T), 25:24995
wave propagation in hot, ion cyclotron, (E), 23:30593
wave propagation in hot, whistler, (T), 22:31855
wave propagation in hydrogen, torsional Alfven, 21:20978
wave propagation in hydromagnetic systems, geodesic acoustic, 23:1476
wave propagation in ideal electron, Doppler effect in, (T), 22:5347
wave propagation in ideal magnetohydrodynamic fluid, geometric optics in, (T), 25:49938
wave propagation in incompressible inhomogeneous, resistively modified hydromagnetic modes in, (T), 22:24357 (MATT-Q-25, pp 223-38)
wave propagation in indium, m = +1 or -1 helicon, 21:13563 (CLM-R-66)
wave propagation in inhomogeneous adiabatic, resistive drift, (T), 24:26282
wave propagation in inhomogeneous and anisotropic, dispersion relations for, (T), 24:17993
wave propagation in inhomogeneous anisotropic, dispersion relations for hf, 22:44122
wave propagation in inhomogeneous anisotropic, dispersion relations and energy transfer for, (T), 23:23223
wave propagation in inhomogeneous bounded, magnetic field effects on, (T), 24:51739
wave propagation in inhomogeneous cold, attenuation of electromagnetic, (T), 24:28375
wave propagation in inhomogeneous collisional, kinetic model for, 25:56248
wave propagation in inhomogeneous compressible magneto-, coupling of electromagnetic and electroacoustic, 21:27157
wave propagation in inhomogeneous cylindrical, Landau absorption of, (T), 21:2222 (CEA-R-2960)
wave propagation in inhomogeneous electromagnetic, (T), 22:13364
wave propagation in inhomogeneous magnetic fields, hydromagnetic, (E), 25:19732
wave propagation in inhomogeneous magnetic fields, nonlinear drift, (T), 25:40723
wave propagation in inhomogeneous magnetic fields, radio, (E), 24:49224
wave propagation in inhomogeneous magnetized, dispersion relations for oblique, 24:49104(R) (UCB-34-P-128-15)
wave propagation in inhomogeneous magnetized, electrostatic, (T), 23:7013
wave propagation in inhomogeneous magnetized, magnetohydrodynamic, (T), 25:40701
wave propagation in inhomogeneous magnetized, nonlinear sum and difference frequency of, (T), 23:51727
wave propagation in inhomogeneous magneto-, dispersion curve for drift, 25:19731
wave propagation in inhomogeneous magneto-, electromagnetic, (T), 22:36936
wave propagation in inhomogeneous magneto-, electrostatic drift, 23:42359
wave propagation in inhomogeneous magneto-, electromagnetic, (T), 22:5362
wave propagation in inhomogeneous plasma, resistive drift, (T), 24:6558 (AD-694110)
wave propagation in inhomogeneous positive column, (E), 23:10645
wave propagation in inhomogeneous Vlasov, dispersion relations for, 24:30365 (IPP-6/82)
wave propagation in inhomogeneous with finite pressure, Alfven, 24:49220
wave propagation in inhomogeneous, Alfven and magneto-acoustic, (T), 23:10644
wave propagation in inhomogeneous, electromagnetic, (T), 25:27801
wave propagation in inhomogeneous, high-frequency surface, (T), 21:25149
wave propagation in inhomogeneous, in gravitational fields, Alfven, (T), 23:20961
wave propagation in inhomogeneous, magnetohydrodynamic, (T), 23:32518

wave propagation in inhomogeneous, nonlinear magneto-acoustic, (T), 25:59086
wave propagation in inhomogeneous, nonlinear oscillations in drift, (T), 24:6565
wave propagation in inhomogeneous, simultaneous transformation and channeling of energy in, (T), 25:33325(T) (MATT-Trans-103)
wave propagation in inhomogeneous, slow nonelectrostatic, (T), 24:37525
wave propagation in inhomogeneous, theory of electromagnetic, 24:26249
wave propagation in inhomogeneous, torsional Alfven, (E), 22:39059 (CONF-670840-1)
wave propagation in inhomogeneous, torsional and compressional, (E/T), 24:47080 (NP-18419)
wave propagation in inhomogeneous, upper hybrid mode, (T), 24:24092
wave propagation in inhomogeneous, Vlasov equation for electromagnetic, (T), 22:11453
wave propagation in inhomogeneous, Weinberg method for magnetohydrodynamic, 24:45294
wave propagation in inhomogeneous, whistler, 21:33411
wave propagation in ion beam—plasma system, ion-, (T), 25:7423 (IPPJ-98)
wave propagation in ion—acoustic, nonlinear Vlasov, (T), 24:18007
wave propagation in laminar, magneto-acoustic, (T), 25:3158
wave propagation in laminated waveguides of, kinetic theory of electromagnetic, 22:5352
wave propagation in layered magneto-, kinetic theory of electromagnetic, 21:35172
wave propagation in layered waveguide in strong magnetic field, (T), 21:7226
wave propagation in layers of, diagnostics use of electromagnetic, 21:11612
wave propagation in layers of, kinetic theory for electromagnetic, 21:7238
wave propagation in limited magneto-, kinetic theory of electromagnetic, 21:18678
wave propagation in linear hard-core, lf electromagnetic, (E), 23:20971
wave propagation in Lorentz magneto-, collisional effects on electron, 25:25180
wave propagation in Lorentz, electron temperature and sound velocity from, (E), 24:5190
wave propagation in lossless isotropic, electromagnetic, (T), 21:7207 (AD-634083)
wave propagation in lossy compressible, layer effects on, 21:782
wave propagation in low pressure discharge, production and detection of acoustic, 21:27167
wave propagation in low pressure mercury discharge, ion—acoustic, 21:18657 (AD-637229)
wave propagation in low-density, apparatus for analyzing, 25:33340
wave propagation in low-pressure hydrogen discharge, lf, (E), 23:36749
wave propagation in low-pressure, electro-acoustic, 21:29209
wave propagation in low-pressure, ion-rarefaction, (T), 25:11938
wave propagation in low-temperature cesium discharge, ion acoustic, (E), 25:36231
wave propagation in low-temperature magneto-, laminar hydromagnetic, (T), 21:46345
wave propagation in magnetic field, slow surface, (T), 24:35499
wave propagation in magnetic fields, dispersion relations for electrostatic ion, (E), 23:34400 (ORNL-4401, pp 113-44)
wave propagation in magnetic fields, kinetic theory of, 24:10595
wave propagation in magnetic fields, properties of lf electrostatic, (T), 24:21830
wave propagation in magnetic fields, pseudo-, (E), 24:26271
wave propagation in magnetic fields, self-similar, (T), 25:14369
wave propagation in magnetic traps from ring currents, magneto-acoustic, (T), 25:40702
wave propagation in magnetically confined, hydromagnetic, (T), 22:5375
wave propagation in magnetized bounded, eigenvalues for slow, (T), 25:11945
wave propagation in magnetized column of, field distribution of forward mode of, (T), 22:48122
wave propagation in magnetized column of, low-frequency, (T), 25:5123 (SU-IPR-366)
wave propagation in magnetized self-gravitating collisionless, cylindrical, (T), 23:12885
wave propagation in magnetized slabs of, numerical solutions for electromagnetic, (T), 23:23204
wave propagation in magnetized streaming, modified extraordinary mode, 24:26247 (N-70-14545)
wave propagation in magnetized with anisotropic pressure, coupled equations for, (T), 25:11946
wave propagation in magnetized, acoustic, (T), 23:5412
wave propagation in magnetized, dispersion relations for surface, (T), 25:59092
wave propagation in magnetized, dispersion relation of ion-acoustic, (E/T), 24:47289
wave propagation in magnetized, electron counterstreaming modes in electromagnetic, (T), 23:23208
wave propagation in magnetized, finite-amplitude electromagnetic, (T), 23:46517
wave propagation in magnetized, finite-amplitude ion—acoustic, (T), 23:46516
wave propagation in magnetized, hydromagnetic compression, 23:48948
wave propagation in magnetized, ion cyclotron harmonic, (E), 24:51746
wave propagation in magnetized, large-amplitude TM, (T), 25:59094
wave propagation in magnetized, longitudinal ion, (T), 25:36222
wave propagation in magnetized, nonlinear electromagnetic, (T), 23:12914
wave propagation in magnetized, self-focusing of whistler, (T), 23:18692
wave propagation in magnetized, single-integral form of dispersion relation for, (T), 24:10581
wave propagation in magnetized, surface, (T), 23:12902
wave propagation in magnetized, surface, (T), 24:37506
wave propagation in magnetized, temperature-anisotropy instability from, (T), 25:11916
wave propagation in magneto, radio, (E), 22:34684
wave propagation in magneto-, adiabatic transformation of electromagnetic, 22:13469
wave propagation in magneto-, Alfven, (T), 22:19854
wave propagation in magneto-, circularly polarized electromagnetic, (T), 22:19966 (NP-17341)
wave propagation in magneto-, collisionless heating in acoustic, (T), 22:13487
wave propagation in magneto-, decay instability of electron, (T), 22:29488
wave propagation in magneto-, dispersion relations for near lower hybrid frequency, 21:31456
wave propagation in magneto-, dispersion relations for, (T), 21:44071(R) (NYO-3782-1)
wave propagation in magneto-, eikonal equation for, 22:36942
wave propagation in magneto-, electromagnetic and electrostatic, (T), 21:42116
wave propagation in magneto-, electromagnetic, (T), 21:44100
wave propagation in magneto-, electromagnetic, (T), 22:34675
wave propagation in magneto-, electron- and ion-cyclotron, (T), 21:18766
wave propagation in magneto-, electron—atom collision effects on, 21:29225 (TID-23827, pp 135-40)
wave propagation in magneto-, forward and backward Bernstein, 24:28349
wave propagation in magneto-, hf electrostatic, 22:11429 (CLM-R-75)
wave propagation in magneto-, hydromagnetic, (E), 22:19928 (RAE-TR-67279)
wave propagation in magneto-, hydromagnetic, (T), 21:756(R) (AD-631694)
wave propagation in magneto-, ionization and recombination effects on Alfven, 21:40022
wave propagation in magneto-, latitude-dependent, (T), 21:13580
wave propagation in magneto-, modes of electromagnetic, 21:3857
wave propagation in magneto-, near cyclotron frequencies, circularly polarized, 22:3045 (IPPCZ-74)
wave propagation in magneto-, nonlinear demodulation of, (T), 22:9327
wave propagation in magneto-, nonlinear theory of Koerper resonance, 22:11435
wave propagation in magneto-, plane electromagnetic, (T), 22:26403
wave propagation in magneto-, plane, (T), 25:14379
wave propagation in magneto-, properties of large amplitude Alfven, 21:27178
wave propagation in magneto-, refractive index equation for oblique, (T), 21:2227 (P-3188(RAND))
wave propagation in magneto-, resonant instabilities from, (T), 21:23198
wave propagation in magneto-, self-focusing of electromagnetic, (T), 21:787
wave propagation in magneto-, self-focusing of electromagnetic, (T), 21:2234
wave propagation in magneto-, self-modulation of, (T), 24:15360
wave propagation in magneto-, studies of helicon, (E), 21:11695(R) (NYO-2150-22)
wave propagation in magneto-, surface potential, 22:3087
wave propagation in magneto-, synchrotron emissivity coefficients from dispersion relation for, 25:17228
wave propagation in magneto-, transverse electromagnetic, (T), 22:17679
wave propagation in magneto-, vlf electromagnetic, (T), 22:48111
wave propagation in magneto-, vlf, (E), 22:2965
wave propagation in magneto-, whistler, (T), 21:15168
wave propagation in magnetoactive finite-temperature, equations for nonlinear electromagnetic, 21:23182 (N-67-15299)
wave propagation in magnetoactive multicomponent collisionless, stationary, (T), 24:37524
wave propagation in magnetoactive, dielectric tensor and constant for, (T), 22:17639
wave propagation in magnetoactive, structure of relativistic solitons, (T), 24:28373
wave propagation in marginally stable state, nonlinear, (T), 24:17990
wave propagation in mercury vapor, Landau dispersion equation for instabilities in ion, 21:40027
wave propagation in mirror-confined, cyclotron-frequency, (T), 23:51723
wave propagation in mirror-confined, electron cyclotron, (T), 25:33335
wave propagation in mirror-confined, hf electrostatic, (T), 23:51735
wave propagation in mirror-confined, near upper hybrid frequency, (E), 25:36243
wave propagation in moving magneto-, electromagnetic, (T), 22:46159
wave propagation in moving, electromagnetic, (T), 22:7296
wave propagation in moving, slow, (T), 23:5294
wave propagation in multi-component, electromagnetic, (T), 23:32505
wave propagation in multi-component, ion acoustic, (T), 25:45492 (AD-720773)
wave propagation in multicomponent cold, at angles to magnetic field, (T), 25:59090
wave propagation in multicomponent collisionless, nonlinear, 24:51760
wave propagation in multicomponent Vlasov, dispersion relations for, 22:17665
wave propagation in multicomponent, dispersion relations for plane, (T), 25:5133
wave propagation in neon discharge at low pressures, ion, 23:46515
wave propagation in non-Maxwellian magneto-, electromagnetic, (T), 21:31423(R) (M-65-4-FR)
wave propagation in nonhomogeneous in parallel magnetic and gravitational fields, Alfven, 21:37466
wave propagation in nonhomogeneous, quasi-linear theory of Alfven, (T), 23:18693
wave propagation in nonlinear anisotropic time-dependent, transverse electromagnetic, (T), 22:29516
wave propagation in nonlinear homogeneous and inhomogeneous, relativistic Doppler effect and group velocity in, (T), 25:36215 (DEMO-71/6)
wave propagation in nonlinear media, instability of fixed-phase beam of transverse, (T), 25:52877
wave propagation in nonlinear, electromagnetic, (T), 23:10647
wave propagation in nonlocal conducting, helicon, (E/T), 21:35167 (NYO-2150-27)
wave propagation in nonresistive cylindrical and spherical, helicon, (T), 23:12900
wave propagation in nonuniform gyrotropic, electromagnetic, (T), 21:40009
wave propagation in nonuniform hydrogen, hydromagnetic, (E/T), 23:12899
wave propagation in nonuniform layers of electromagnetic, (T), 24:26246 (AD-700993)
wave propagation in nonuniform magnetic fields, hydromagnetic, (T), 23:46518
wave propagation in nonuniform magnetized, whistler, (T), 24:42743
wave propagation in nonuniform, compressional Alfven, (T), 25:19745
wave propagation in nonuniform, dispersion of helicon, (T), 23:10666
wave propagation in nonuniform, longitudinal, (T), 22:9339
wave propagation in nonuniform, near second electron cyclotron harmonic, (T), 23:12910
wave propagation in nonuniform, relativistic formulation for nonlinear, (T), 23:12917
wave propagation in nonuniformly magnetized, for all electron and ion temperatures, (T), 24:12867
wave propagation in one-component, kinetic theory of, (T), 25:9527
wave propagation in one-dimensional and one-component, nonlinear processes in, (T), 21:15158
wave propagation in one-dimensional, Landau poles and branch cut analysis for, 24:35492
wave propagation in one-dimensional, nonlinear behavior in, (E), 22:36929
wave propagation in parabolic background, electromagnetic, 21:43900
wave propagation in parallel-plate waveguides of, (T), 22:29520
wave propagation in paramagnetic, dispersion relations for, 21:18508
wave propagation in partially filled waveguide of, in infinite axial magnetic field, electromagnetic, (T), 22:1199
wave propagation in partially ionized plasma, electromagnetic, (T), 24:19927
wave propagation in partially ionized viscous, (T), 24:49209
wave propagation in partially ionized, acoustic, (T), 24:8494
wave propagation in partially ionized, acoustic, (T), 23:25407
wave propagation in partially ionized, dispersion relations for, 21:42055
wave propagation in partially ionized, drift, (T), 24:42738
wave propagation in partially ionized, in electric fields, ion—acoustic, (T), 23:23224
wave propagation in partially ionized, linear theory of collision-induced instability in, 21:37504
wave propagation in partially ionized, longitudinal, (T), 24:21833
wave propagation in partially ionized, thermodynamics of magnetohydrodynamic, (T), 23:5404
wave propagation in partially ionized, thermodynamics and magnetohydrodynamics of, (T), 22:44123
wave propagation in periodic, dispersion relation for periodic, 24:35506
wave propagation in periodically varying, amplitude modulation of microwaves, (T), 24:17996
wave propagation in perpendicular collisionless shock, instabilities in, 24:51738
wave propagation in plane stratified, oblique electromagnetic, (T), 24:17995
wave propagation in plane ungrounded slab, surface, (T), 23:25412
wave propagation in positive column discharges, ion, (T), 21:11633(R) (SU-IPR-124)
wave propagation in positive column discharges, low-frequency, (T), 25:59072
wave propagation in positive column, acoustic, (T), 24:30372
wave propagation in positive column, acoustic-, (T), 24:35510
wave propagation in positive column, in magnetic fields, (E/T), 25:38520
wave propagation in positive column, instabilities from low-frequency, (T), 24:35484(R) (SU-IPR-357)
wave propagation in positive column, instabilities from, (E/T), 25:5125(R) (SU-IPR-389)
wave propagation in positive column, longitudinal low-frequency, (T), 24:17985
wave propagation in positive column, low frequency, (E), 23:5400(R) (SU-IPR-259)
wave propagation in positive column, m = 1 azimuthal mode of, (E), 24:8503

wave propagation in positive column, space-charge, 22:39096
wave propagation in positive column, with finite-amplitude helical instability, (E), 25:9530
wave propagation in potassium magneto-, Fermi-liquid effects in, (T), 22:24328
wave propagation in presence of transverse inhomogeneity, ion—acoustic, (T), 24:35513
wave propagation in Q devices, ion—acoustic, (E/T), 25:9522
wave propagation in quiescent, ion and electron, (E), 25:7426
wave propagation in random media, (T), 24:8493
wave propagation in rare gas, pulse-excited ionic, (T), 22:13496
wave propagation in rarefied rotating, Alfven, 21:15171
wave propagation in rarefied, cylindrical, (T), 21:33417
wave propagation in rarefied, cylindrical, (T), 22:5369
wave propagation in rarefied, ion sound excitation in, 21:35177
wave propagation in rarefied, overturning of, (T), 25:52873
wave propagation in rarefied, with finite Larmor radius, (T), 21:2252
wave propagation in relativistic anisotropic, supraluminous, (T), 25:19733
wave propagation in relativistic Vlasov, dispersion relations for, 22:26393
wave propagation in relativistic, dispersion relations for longitudinal, 24:30371
wave propagation in relativistic, dispersion relations for transverse, (T), 24:18009
wave propagation in relativistic, dispersion relation for longitudinal, (T), 25:9516
wave propagation in relativistic, stability of transverse, (T), 24:51670
wave propagation in relativistically warm magneto-, refractive index for electromagnetic, (T), 24:12861
wave propagation in resonant cavities, electromagnetic, (T), 23:7010
wave propagation in rf electric fields, ion-, (E), 25:5130
wave propagation in rf, drift, (E), 23:36750
wave propagation in Scylla IV theta pinch, Faraday rotation measurement of, 22:11404(R) (LA-3831)
wave propagation in sheared magnetic field, polarization of electromagnetic, (E), 25:3146 (CEA-CONF-1608)
wave propagation in sheared magnetic fields, electromagnetic, (T), 25:27821
wave propagation in sinusoidally striatified, electromagnetic, (T), 23:32514
wave propagation in slab of, dispersion and stability of TE mode, 22:34704
wave propagation in slab, impedance sheet approximation for, 23:3481
wave propagation in slabs and cylinders, trapped modes in, 23:8626
wave propagation in slightly relativistic, electromagnetic, (T), 25:56228 (CEA-CONF-1806)
wave propagation in spatial and temporal dispersive inhomogeneous, asymptotic theory of, (T), 25:40736
wave propagation in stellarators W-II, marginally stable collisionless drift, (T), 25:1242 (IPP-6/85)
wave propagation in stratified compressible magneto-, coupled electromagnetic and electrostatic, 21:42110
wave propagation in stratified compressible, coupled electromagnetic and electron acoustic, (T), 21:7220
wave propagation in stratified electron, singularities of coupled fields in, (T), 25:19756
wave propagation in stratified, invariant imbedding techniques for electromagnetic, (T), 24:5193
wave propagation in streaming relativistic, superluminous, (T), 24:28362
wave propagation in streaming, ion—acoustic, (E), 24:26266
wave propagation in streaming-ion, ion—acoustic, (E/T), 25:3161
wave propagation in strong magnetic fields, linear and nonlinear theory for, 24:35508
wave propagation in strongly curved configurations of, dispersion relations for, 25:56253
wave propagation in system with electron beam, confined by magnetic field, 22:44117
wave propagation in temperature gradient, nonlinear drift, (T), 23:32521
wave propagation in three-component collisionless, solitary, 24:37519
wave propagation in three-component magneto-, oblique, (T), 24:37508
wave propagation in transverse magneto-, stability of electromagnetic, (T), 22:31849
wave propagation in trapped relativistic, space-charge, (T), 25:19734
wave propagation in turbulent magneto-, index of refraction for radio, (T), 24:15369
wave propagation in turbulent, second sound, (T), 22:9355
wave propagation in turbulent, slow ion, (E), 25:1255
wave propagation in turbulent, theory of lf, (T), 23:42373
wave propagation in two-component, collisional drift, (T), 24:26283
wave propagation in two-dimensional, Bernstein mode, (T), 25:52884
wave propagation in two-ion-species, dispersion and stability of collisional drift-, (T), 25:14365
wave propagation in two-stream magneto-, electromagnetic, (T), 23:44472
wave propagation in two-streaming electron, thermal stabilization of modified ordinary mode in, (T), 23:23209
wave propagation in two-temperature, with periodic electric fields, (T), 24:30366
wave propagation in unbounded electron, high-frequency, (T), 23:12912
wave propagation in unbounded magnetized, dispersion relations for electromagnetic, 25:36218 (UARAEE-92)
wave propagation in unbounded magnetoactive one-component, with anisotropic pressure, (T), 22:3097
wave propagation in uniaxial with curved magnetic fields, electromagnetic, (T), 24:6559 (AD-694499)
wave propagation in uniform anisotropic Maxwellian, electromagnetic, (T), 23:12924
wave propagation in uniform infinite, with weak beam, (T), 25:9526
wave propagation in uniform magnetic fields, dispersion measurements of ion, 24:40136
wave propagation in uniform magnetized, linear theory of transverse, (T), 25:59102
wave propagation in uniform magneto-, cyclotron harmonic, (T), 22:26384 (SU-IPR-205)
wave propagation in uniform nonresistive, dispersion relations for helicon, (T), 25:11936
wave propagation in vacuum channel with magnetic fields, electromagnetic, (T), 25:17251
wave propagation in vacuum channel, guided electromagnetic, (T), 25:38517 (EUR-CEA-FC-577)
wave propagation in varying magnetic fields, drift-, (T), 25:49941
wave propagation in viscous fully ionized, longitudinal, (T), 23:12897
wave propagation in Vlasov, nonlinear transverse, (T), 24:42740
wave propagation in warm collisionless, Alfven, (T), 24:19922
wave propagation in warm collisionless, Bernstein modes of, (T), 24:37509
wave propagation in warm collisionless, Korteweg—de Vries equation for nonlinear hydromagnetic, (T), 23:48950
wave propagation in warm collisionless, structure of, (T), 21:7250
wave propagation in warm drifting uniaxial electron, dispersion relations for, (T), 24:18011
wave propagation in warm homogeneous magnetized, cyclotron harmonic, (T), 23:46514 (SU-IPR-326)
wave propagation in warm homogeneous magnetized, cyclotron harmonic, (T), 23:46513 (SU-IPR-325)
wave propagation in warm homogeneous magneto-, cyclotron harmonic, (T), 25:17234
wave propagation in warm inhomogeneous, linear conversion of oblique, (T), 25:52886
wave propagation in warm isotropic, electromagnetic, (T), 21:7230
wave propagation in warm magnetized, group velocity in, (T), 24:32737
wave propagation in warm magnetized, nonlinear decay processes in electromagnetic, (T), 24:3437
wave propagation in warm slabs with normal magnetic fields, oblique electromagnetic, 21:40007
wave propagation in warm turbulent, coherent, (T), 24:32861
wave propagation in warm two-component magnetized, dispersion relations for, 24:40148
wave propagation in warm Vlasov, magneto-acoustic, (T), 24:6570
wave propagation in warm, dispersion relations for, 24:42730
wave propagation in warm, nonlinear longitudinal, (T), 23:32516
wave propagation in warm, nonlinear theory for, 25:11930
wave propagation in wave guides of, electron beam effects on, 21:20960
wave propagation in waveguide filled with, (T), 21:27181
wave propagation in waveguide, electromagnetic, (T), 21:7266
wave propagation in waveguide-filled, microwave field distribution in, 24:49225
wave propagation in waveguide-filled, modes of, (T), 22:17644
wave propagation in waveguides filled with, dipolar mode, (E), 23:34410 (NP-17867)
wave propagation in waveguides filled with, dispersion relations for, 21:37455 (UCRL-17564)
wave propagation in waveguides filled with, modes of microwave, (E/T), 21:37452 (NP-16955)
wave propagation in waveguides filled-with, (T), 21:33466
wave propagation in waveguides of warm uniaxial, mode theory of, 23:44482
wave propagation in waveguides of, (T), 22:24336
wave propagation in waveguides of, (T), 21:16934
wave propagation in waveguides of, dispersion and attenuation of helicon, (T), 23:12918
wave propagation in waveguides of, dispersion modes of, 21:20976
wave propagation in waveguides of, effect of transverse density nonuniformities on, (T), 23:10652
wave propagation in waveguides of, electromagnetic, (T), 23:51732
wave propagation in waveguides of, electron collisions and drift-velocity effects on, 21:18746
wave propagation in waveguides of, Fresnel effects in, (T), 24:6560 (IPP-3/94)
wave propagation in waveguides of, high-intensity electromagnetic, (E), 22:44138
wave propagation in waveguides of, in strong magnetic field, (T), 21:16951
wave propagation in waveguides of, in transverse magnetic fields, 23:44483
wave propagation in waveguides of, nonlinear effects of, 21:15145
wave propagation in waveguides of, power flow in, 23:7012
wave propagation in waveguides of, properties of electromagnetic, (T), 21:2264
wave propagation in waveguides of, properties of electromagnetic, (T), 21:2248
wave propagation in waveguides of, with axial magnetic field, (T), 21:15169
wave propagation in waveguides, surface, 22:34689
wave propagation in weakly inhomogeneous collisionless magneto-, mode conversion in, (T), 24:10580
wave propagation in weakly inhomogeneous, WKB approximation for energy transfer in, (T>, 25:17244
wave propagation in weakly ionized magneto-, lf electrostatic, (E), 25:14383
wave propagation in weakly ionized magneto-, unified theory for drift and ion, 25:19720
wave propagation in weakly ionized, acoustic, (T), 21:33454
wave propagation in weakly ionized, conductivity from electromagnetic, (T), 21:29256
wave propagation in weakly ionized, conductivity from electromagnetic, (T), 21:29255
wave propagation in weakly ionized, dispersion properties of small amplitude, (T), 21:3864
wave propagation in weakly ionized, electromagnetic, (T), 21:13558 (AGARD-CP-8(Vol.2), pp 587-618)
wave propagation in weakly ionized, harmonics from electromagnetic, (T), 25:33355
wave propagation in weakly ionized, instabilities from ion and drift, (T), 23:10632 (SU-IPR-265)
wave propagation in weakly ionized, ion, (E), 25:25188
wave propagation in weakly ionized, longitudinal ion, (E/T), 21:44104
wave propagation in weakly ionized, nonlinear transport in, (T), 22:31851
wave propagation in weakly ionized, resonant electromagnetic and electroacoustic, 21:13592
wave propagation in weakly ionized, strong cylindrical and spherical electromagnetic-, (T), 25:56240
wave propagation in weakly Langmuir turbulent, small-amplitude transverse, (T), 24:42741
wave propagation in weakly turbulent magnetized, electromagnetic, (T), 24:28350
wave propagation in weakly turbulent, correlation functions for, 25:9475
wave propagation in, (T), 21:23190
wave propagation in, (T), 22:7293
wave propagation in, amplitude and phase distortion of Gaussian pulse carrier, 23:3480
wave propagation in, amplitude dispersion and nonlinear instability of whistler, (T), 23:30598
wave propagation in, amplitude dispersion in electromagnetic modes, (T), 25:33351
wave propagation in, anisotropic instabilities of hydromagnetic, (T), 25:52875
wave propagation in, band theory of helicon, 22:29485
wave propagation in, behavior of ion—acoustic, (T), 21:2240
wave propagation in, Bernstein-mode, (E), 24:32858 (IPP-3/102)
wave propagation in, breakdown of nonlinear microwave, (T), 25:45511 (AD-719764)
wave propagation in, Brillouin diagram solutions of real dispersion relations for, (T), 23:34429 (ORNL-4401, pp 1-24)
wave propagation in, charged-particle motion in self-consistent spectrum of, (T), 25:17230
wave propagation in, circuit analysis of, (T), 23:44481
wave propagation in, coherent magnetohydrodynamic, (T), 23:39521
wave propagation in, collision-induced instabilities near electron cyclotron harmonics in, (T), 22:7283
wave propagation in, collisional effects on hydromagnetic, (T), 22:9317
wave propagation in, collisional effects on ion wave instabilities, (T), 24:10540
wave propagation in, collisional effects on, (T), 22:29491
wave propagation in, comparison of compressional and torsional Alfven, (E/T), 22:17691
wave propagation in, compressional and torsional Alfven, (E), 22:26379 (NP-17436)
wave propagation in, conference papers on, 24:8424
wave propagation in, constants of linearized motion for large-amplitude electrostatic, (T), 22:24279 (MATT-Q-25, pp 239-56)
wave propagation in, convection from large-amplitude, (T), 22:24279 (MATT-Q-25, pp 239-56)
wave propagation in, cyclotron harmonic, 22:39105
wave propagation in, cyclotron harmonic resonance, (E/T), 22:39065(R) (N-68-13142)
wave propagation in, cyclotron harmonic, (T), 23:1447
wave propagation in, cyclotron instabilities from hydromagnetic, (T), 23:12931
wave propagation in, cyclotron instabilities from hydromagnetic, 21:23229
wave propagation in, damping and instabilities from cyclotron, 21:15180
wave propagation in, decay instability of, 21:29263
wave propagation in, decay instability of cyclotron harmonic, (T), 25:3162
wave propagation in, detection of spatially decaying ion-acoustic, 25:19741
wave propagation in, dispersion and absorption of hybrid, (T), 21:11641
wave propagation in, dispersion of ion acoustic, 22:31806 (ORNL-4238, pp 67-104)
wave propagation in, dispersion of ion—acoustic, (E), 23:12929
wave propagation in, dispersion of whistler mode of, (T), 21:23196
wave propagation in, dispersion relations for computer simulated, 24:18001
wave propagation in, dispersion relations for cyclotron harmonic, (E), 23:32504(R) (SU-IPR-283)
wave propagation in, dispersion relations for electron, (E/T), 23:23222
wave propagation in, dispersion relations for ion cyclotron, (T), 25:33339
wave propagation in, dispersion relations for, (T), 23:10670
wave propagation in, dissipative effects on electro-acoustic, (T), 24:3435
wave propagation in, Doppler shift in electromagnetic, (T), 24:28360

wave propagation in, echoes at upper hybrid resonance, (E), 22:17658
wave propagation in, effect of electron radiations on longitudinal, (T), 24:6561
wave propagation in, effect of electron trapping on ion—acoustic, (T), 24:3425
wave propagation in, effects of finite Larmor radius on, (T), 24:8504
wave propagation in, effects of increasing frequency on ion—acoustic, (E), 22:1216
wave propagation in, effects of ion—atom collisions on ion-acoustic, (E), 22:31850
wave propagation in, effects of negative dielectric constant on electrosonic, (T), 23:34485
wave propagation in, effects of rf electric field on dispersion of ion, (T), 25:3150 (IPPJ-93)
wave propagation in, effects of stimulated scattering on, 24:19932
wave propagation in, effects on Tonks—Dattner resonant frequencies, (T), 25:56252
wave propagation in, electromagnetic cyclotron instabilities in, (T), 25:38487
wave propagation in, electromagnetic modifications of electrostatic dispersion relation, (T), 25:40711
wave propagation in, electromagnetic, (T), 22:13452
wave propagation in, electron and ion acoustic, (E/T), 25:27800
wave propagation in, electron cyclotron, (E), 22:17637 (IAE-1244)
wave propagation in, electron density effects on electromagnetic, (T), 22:24320
wave propagation in, electron inertia effects on ion cyclotron, (E/T), 23:36736
wave propagation in, electron temperature and Landau damping effects on ion—acoustic, 21:15131 (ORNL-P-2827)
wave propagation in, electron temperature effects on electromagnetic, (T), 21:46356
wave propagation in, equations for ion—acoustic, 21:2224 (IPPJ-51)
wave propagation in, equivalent circuit for impedance in, (T), 23:16844
wave propagation in, exact solutions for electromagnetic, (T), 23:46505(T) (AEC-tr-7062)
wave propagation in, existence of shock-like solutions of Korteweg—de Vries equation for ion acoustic, 25:27818
wave propagation in, finite Larmor radius effects in magnetosonic pulse, (T), 24:8505
wave propagation in, finite-amplitude helicon, (T), 24:40133
wave propagation in, geometrical optical analysis of magneto-acoustic, (T), 24:8498
wave propagation in, growth rates of flutelike loss-cone modes in, (T), 23:34429 (ORNL-4401, pp 1-24)
wave propagation in, guiding-center model for exact nonlinear evolution of Alfven, (T), 25:33352
wave propagation in, harmonics in ion, (E/T), 22:41574
wave propagation in, helicon, (E/T), 24:35494
wave propagation in, Huygens principle in magnetohydrodynamic, 22:11440
wave propagation in, hydromagnetic toroidal resonance, (T), 21:41904
wave propagation in, independence of geometry in ion, 22:1219
wave propagation in, instabilities from monochromatic, (T), 24:12840
wave propagation in, instabilities from whistler, (T), 25:17243
wave propagation in, instability of periodic magnetoacoustic, 22:46134 (IAE-1455)
wave propagation in, interferometer for measurement of Fresnel dragging effect in, 23:10629 (IPP-3/79)
wave propagation in, ion Bernstein modes from electromagnetic dispersion relations, (T), 23:12920
wave propagation in, ion collisional effects on ion acoustic, (T), 25:49940
wave propagation in, ion drift instability, (T), 24:21831
wave propagation in, ion gyroradius effects on solitary pulse, (T), 24:47278 (NYO-3782-4, App.2)
wave propagation in, ion—acoustic, (E), 23:32528
wave propagation in, ion—ion hybrid resonance in, (E/T), 23:42358
wave propagation in, ionospheric Thomson scattering for analyzing, 22:7274 (MATT-555)
wave propagation in, kinetic theeory of transverse, 25:30526
wave propagation in, kinetic theory of acoustic, (T), 23:42355
wave propagation in, kinetic theory of longitudinal forced and free, 25:30605 (NP-18673)
wave propagation in, Landau poles for, (T), 22:44179
wave propagation in, Landau singularities for double-stream instability, (T), 24:10583
wave propagation in, large amplitude Alfven, 21:37449 (NP-16891)
wave propagation in, large amplitude steady-state harmonic cyclotron, 24:45290 (COO-2081-2)
wave propagation in, lf whistler mode from electromagnetic, 21:7121
wave propagation in, linear instability of finite amplitude ion, (T), 24:26258
wave propagation in, longitudinal ion, (E), 22:17643
wave propagation in, magnetic field effects on Alfven, 21:35171
wave propagation in, MHD equations for simple, 24:37504
wave propagation in, nonequilibrium ionization effects on magnetofluiddynamic, 21:13559 (AGARD-CP-8(Vol.2), pp 619-41)
wave propagation in, nonlinear analysis of ionization, (T), 24:28344
wave propagation in, nonlinear demodulation of amplitude-modulated electromagnetic, (T), 22:1226
wave propagation in, nonlinear dissipative instability of magneto-acoustic, 24:10590
wave propagation in, nonlinear drift, (T), 24:26286
wave propagation in, nonlinear effects from ion drift, (T), 22:24279 (MATT-Q-25, pp 239-56)
wave propagation in, nonlinear effects of electromagnetic, 21:7253
wave propagation in, nonlinear effects of large-amplitude Alfven, (E), 22:19969 (NP-17346)
wave propagation in, nonlinear effects of large-amplitude ion—acoustic, (E), 25:3151 (IPPJ-94)
wave propagation in, nonlinear effects of large-amplitude Alfven, (E), 22:19990
wave propagation in, nonlinear electromagnetic, (T), 23:18702
wave propagation in, nonlinear perturbation solution of ion—acoustic, (T), 24:51731
wave propagation in, nonlinear processes in, (T), 25:33327
wave propagation in, nonlinear processes of, (E), 22:24345
wave propagation in, nonlinear quasi-neutral electrostatic, (T), 23:23193 (IPP-6/74)
wave propagation in, nonlinear quasi-neutral solutions for, 24:28347
wave propagation in, nonlinear solutions of Vlasov and Poisson equations for, 25:56244
wave propagation in, nonlinear stable collisionless drift, (T), 24:35516
wave propagation in, nonlinear theory of electromagnetic, 23:12798
wave propagation in, nonlinear Vlasov equation for finite-amplitude, (T), 25:11933
wave propagation in, oblique cyclotron harmonic, 25:17235
wave propagation in, of oscillators, electromagnetic, (T), 21:3952
wave propagation in, parametric amplification of Alfven, (T), 25:33353
wave propagation in, particle scattering coefficients from Alfven, 21:25145
wave propagation in, particle trapping in large-amplitude, (T), 25:56227 (CEA-CONF-1805)
wave propagation in, periodic ion acoustic, (T), 23:14848
wave propagation in, perturbation solutions for nonlinear, (T), 23:48947
wave propagation in, perturbation solutions to nonlinear Vlasov equation for electrostatic, 25:36236
wave propagation in, phase velocities for, (T), 21:2221 (AD-632125)
wave propagation in, Poyntings theorem for, (T), 23:46511 (ORO-3895-3)
wave propagation in, properties of high-frequency, 24:35483(T) (AEC-tr-7146)
wave propagation in, pseudowaves, (E/T), 23:34400 (ORNL-4401, pp 113-44)
wave propagation in, pulse dispersions from electromagnetic, 21:25133(R) (SRRC-CR-66-48)
wave propagation in, quadratic form for collisional drift, (T), 22:24357 (MATT-Q-25, pp 223-38)
wave propagation in, quasi-linear effects on ion acoustic, (T), 24:28378
wave propagation in, quasi-static ion cyclotron, 21:40021
wave propagation in, quasi-static ion cyclotron, (E), 25:17222 (ORO-3871-5)
wave propagation in, quasilinear theory of ion—acoustic, 21:3860
wave propagation in, radiation characteristics from monopole and dipole antennas, (E/T), 24:32823
wave propagation in, reductive perturbation method for calculating nonlinear, 22:22184
wave propagation in, relation of gravity waves in incompressible fluids to ion, (T), 25:27806
wave propagation in, relation to disk-like galaxies, 21:18364 (N-67-13127)
wave propagation in, relativistic kinetic theory of large-amplitude transverse Alfven, 25:49939
wave propagation in, research on, 21:7204(R) (AD-631047)
wave propagation in, research on cyclotron resonance, 22:34644 (LFEN-NL-28-a)
wave propagation in, research on ion, 21:29224(R) (SU-IPR-145)
wave propagation in, research on ion acoustic and cyclotron harmonic, 22:29477(R) (SU-IPR-224)
wave propagation in, research on, (E), 23:16839 (N-68-34367)
wave propagation in, resonant frequencies and dispersion relation calculations for, 25:52858 (AD-719799)
wave propagation in, rotational discontinuity in Alfven, (T), 22:24303
wave propagation in, self-focusing of electromagnetic, (T), 25:36226
wave propagation in, self-focusing of electromagnetic, (E), 25:49954
wave propagation in, sheath dynamics of laminar collisionless electrostatic, (T), 24:47233 (NP-18426)
wave propagation in, shock formation from ion, (T), 23:25343 (BMwF-FBK-69-3, pp 22.1-17)
wave propagation in, small-amplitude electromagnetic, (E/T), 24:30370
wave propagation in, solitary longitudinal pulse, (T), 21:31458
wave propagation in, solitary pulse ion acoustic, 22:11437
wave propagation in, solitary-wave pulse, (T), 22:39117
wave propagation in, solution of nonlinear relativistic Vlasov equation for, (T), 24:28351
wave propagation in, solutions for magneto-acoustic, under gravity, (T), 25:43073
wave propagation in, splitting effect of cyclotron harmonic, (E/T), 23:51719 (CEA-CONF-1395)
wave propagation in, theoretical analysis of ballistic signal, (T), 24:26269
wave propagation in, theory for electromagnetic, 25:27803
wave propagation in, theory of strong turbulence in, 24:28376
wave propagation in, time-asymptotic perturbation theory for weakly turbulent, (T), 25:27810
wave propagation in, transverse electromagnetic, (T), 21:9577
wave propagation in, two-pole approximation for dispersion relation for, 22:13484
wave propagation in, Vlasov theory for weakly turbulent, (T), 25:27811
wave propagation in, wave-front destruction of magnetoacoustic waves in, 21:23183(T) (NP-tr-1527)
wave propagation in, wavefront and signal velocities of rf, (T), 24:5191
wave propagation in, wavelength calculation for ion acoustic, (T), 23:34400 (ORNL-4401, pp 113-44)
wave propagation in, with arbitrary electron velocity distributions, 21:3846
wave propagation near coupling point in thin slabs of inhomogeneous warm, (T), 24:5194
wave propagation near cyclotron resonance, relativistic effects on dielectric behavior of, (T), 23:36752
wave propagation near electron cyclotron frequency, electromagnetic, (E), 23:20963
wave propagation near electron cyclotron frequency in magneto-, electromagnetic, (E), 22:19965 (NP-17339)
wave propagation near electron cyclotron harmonics in uniform, (T), 21:9586
wave propagation near field of electrical disturbance, acoustic, (T), 23:39511
wave propagation near frequency of damped oscillations, energy density and velocity of rf, (T), 23:20968
wave propagation near frequency of damped oscillations, energy density and velocity of rf, (T), 23:20969
wave propagation near hybrid ion—electron resonant frequency in contact cesium, linear electromagnetic, (E/T), 23:1455
wave propagation near ion cyclotron frequency, electrostatic ion, (E/T), 23:1452
wave propagation near ion cyclotron frequency, ion—acoustic, (E), 24:21837
wave propagation on axially magnetized, surface, (T), 23:14852
wave propagation on bounded, phase properties of space-charge, (T), 25:14372
wave propagation on cold nonuniform columns of, guided, (E), 22:24322
wave propagation on column of magnetized, dispersion equation for dipolar surface, 23:7005
wave propagation on column of, surface, (T), 22:11463
wave propagation on column, effects on plasma resonances in, (E/T), 24:10592
wave propagation on electron beam in, Maxwell solutions for, (T), 23:25406
wave propagation on inhomogeneous column, surface, (E/T), 25:59100
wave propagation on inhomogeneous columns of, surface, 23:3511
wave propagation on inhomogeneous positive column, surface, (T), 24:15309
wave propagation on surface of column, electromagnetic, (E), 24:30369
wave propagation on surface of warm, low-frequency, (T), 25:1256
wave propagation on surface of, electromagnetic, (T), 21:44087
wave propagation on surface of, kinetic theory of electromagnetic, 21:15150
wave propagation on two parallel radially inhomogeneous cylinders of, electromagnetic, (T), 23:46522
wave propagation on, attenuation and coupling impedance of backward dipole surface, 22:7287
wave propagation perpendicular to magnetic field, relativistic dispersion relation for, (T), 24:35500
wave propagation theory for, model of nonlinear dispersive equation for, 22:52800
wave propagation through anisotropic, hydromagnetic, (T), 23:12908
wave propagation through axially slotted sheath of, electromagnetic, 21:11627 (NASA-CR-677)
wave propagation through compressible inhomogeneous, electromagnetic, (T), 21:31421 (AFCRL-67-0299)
wave propagation through conducting slab, electromagnetic, (T), 25:52876
wave propagation through inhomogeneous, from ground plane, (T), 23:39507
wave propagation through inhomogeneous, transient signal, (T), 23:20967
wave propagation through magneto-, sound, 21:33408 (RAE-TN-AERO-2742)
wave propagation through magnetoactive electromagnetic, (T), 21:20947
wave propagation through slowly varying, WKB solution of electromagnetic, (T), 25:30608
wave propagation transverse to electric current density in, magnetohydrodynamic, 21:39972 (TID-23971, pp 123-212)
wave propagation transverse to mirror-confined, electromagnetic, (T), 23:12828
wave propagation, theory of magnetohydrodynamic, 23:46345
wave properties in collisionless, longitudinal, (T), 21:33428
wave properties in collisionless, transverse, (T), 21:33429
wave properties in high-temperature, nonlinear, (T), 23:32512
wave properties in low-pressure discharge, acoustic, 21:31439
wave properties in, induced Compton, (T), 23:12470 (NP-17750)
wave properties in, research on quasistatic ion cyclotron, (E/T), 23:46510(R) (ORO-3871-1)
wave properties of dense magnetized column of, hf, 24:3420
wave reflection and absorption in inhomogeneous, electrostatic, (E), 25:3153
wave reflection and refraction by moving uniaxially anisotropic slabs of, electromagnetic, (T), 23:30584

wave reflection and refraction in moving layers of, electromagnetic, (T), 23:51738
wave reflection and refraction in planar inhomogeneous, (T), 24:12858 (N-69-40811)
wave reflection and refraction on homogeneous magneto-, electromagnetic, (T), 22:31856
wave reflection and transmission by moving, electromagnetic, 21:33441
wave reflection and transmission from drifting, electromagnetic, (T), 23:1462
wave reflection and transmission in homogeneous sheaths of, electromagnetic, 21:20979
wave reflection and transmission in inhomogeneous, electromagnetic, (T), 25:36228
wave reflection and transmission in magnetized slabs of, electromagnetic, (T), 22:17684
wave reflection and transmission in magneto, optimum third-harmonic generation in, (T), 25:36244
wave reflection and transmission in slab, invariant imbedding method calculation of electromagnetic, (T), 24:3416 (SC-R-69-1368)
wave reflection and transmission in slab, microwave, (E), 25:33347
wave reflection and transmission in, electromagnetic, (T), 23:18694
wave reflection and transmission on slab, in magnetostatic fields, (T), 24:12860
wave reflection at boundary of half-space of, electromagnetic, (T), 25:11939
wave reflection at vacuum boundary of, electromagnetic, (T), 23:18715
wave reflection by cold magneto-, electromagnetic, (T), 21:11629 (NP-16466)
wave reflection by magnetic field-aligned irregularities, Alfven, (T), 25:33330
wave reflection from anisotropic, circularly polarized electromagnetic, 21:40008
wave reflection from boundary of semi-infinite, electromagnetic, 23:51740
wave reflection from boundary of, electromagnetic, 22: 1227
wave reflection from cold lossless slab, plane electromagnetic, (T), 23:23206
wave reflection from electron sheath, electrostatic, (T), 21:31451
wave reflection from half-space, oblique electromagnetic, (T), 23:36744
wave reflection from inhomogeneous absorption layer, electromagnetic, 24:19920
wave reflection from inhomogeneous, electromagnetic, (T), 24:28357
wave reflection from interface between stationary and moving, electromagnetic, (T), 25:49953
wave reflection from isotropic, polarization of, (T), 23: 32515
wave reflection from layers of, electromagnetic, (T), 24: 10591
wave reflection from layers with Epstein profiles of electron density, electromagnetic, (T), 23:51722
wave reflection from longitudinally magnetized coaxial waveguide, microwave, (E), 25:27813
wave reflection from magnetic cliff, compressional Alfven, (E/T), 24:42729
wave reflection from magnetically active, oblique electromagnetic, (T), 23:44480
wave reflection from moving magneto-, electromagnetic, (T), 22:22162
wave reflection from oscillations in discharge, micro-, 21:42077
wave reflection from potential barrier of gridded energy analyzer in discharge, ion-, (E), 25:9531
wave reflection from semi-infinite, oblique electromagnetic, (T), 21:37308
wave reflection from stratified, with perturbed profiles, electromagnetic, (T), 21:39903
wave reflection from vacuum—plasma interface, electromagnetic, (T), 24:1466
wave reflection from, kinetic theory for electromagnetic, 21:20953
wave reflection from, nonlinear theory of oblique incident electromagnetic, (T), 25:30626
wave reflection from, oblique electromagnetic, (T), 22: 50162
wave reflection in beam—plasma system, longitudinal, (T), 25:56247
wave reflection in inhomogeneous, nonlocal, (T), 22: 17676
wave reflection in perturbed, ion, 22:41591
wave reflection in positive columns of, kinetic model of Tonks—Dattner resonances, 21:42107
wave reflection in slowly varying, (T), 21:42058
wave reflection in warm beam—plasma system, nonlocal, (T), 25:47580 (AD-717659)
wave reflection in, cyclotron echo measurement for, 22: 31836
wave reflection in, effects of wall permittivity and plasma thickness on, 23:5428
wave reflection in, with exponentially tapered electron density and fixed collision frequency, (T), 23:44473
wave reflection on inhomogeneous layers of, electromagnetic, (T), 22:44146
wave reflection on, density gradient effects on magneto-Kerr effect, 21:18670 (NP-16641)
wave reflection on, time delay in electromagnetic, 21: 37482
wave refraction and focusing in nonuniform parabolic layers of, spherical electromagnetic, (T), 21:18718
wave refraction in cylindrical, electromagnetic, (T), 22: 34652 (TID-24491, pp 76-85)
wave refraction in theta-pinch hydrogen, electromagnetic, 21:46330 (JUL-493-PP)
wave refraction on collisionless magneto-, phase and group indices for, (T), 22:36809 (N-68-21904)
wave regeneration in inhomogeneous, WKB approximation for, (T), 23:23199
wave resonance in bounded, at high magnetic fields, (E/T), 24:49204
wave resonance phenomena in thermal cesium, in electric fields, 25:14368
wave resonances in discharge, nonlinear damping of Tonks—Dattner, (E/T), 25:11942
wave resonances in electron, in strong hf electric fields, 25:14377
wave resonances in hot bounded, ion—electron, 25:5134
wave resonances in low-pressure discharges, helicon, (T), 25:9512 (NP-18554)
wave resonances in magnetized Vlasov, higher order, (E/T), 23:44289
wave resonances in nonuniform waveguides, transverse modes of, (T), 23:48952
wave resonances in rare-gas, Tonks—Dattner, (E), 24: 1462
wave resonances in Tor-2 stellarator, compensation of perturbations of, (T), 25:17219(T) (CTO-741)
wave resonances in TOR-2 stellarator, compensation of perturbations of, (T), 24:51729 (NP-18477)
wave resonances in warm inhomogeneous, Tonks—Dattner, (E), 24:35507
wave resonances in, asymptotic time behavior of, 25: 17011
wave resonances in, higher-order cyclotron harmonic, 25:17008
wave resonances in, ion—ion hybrid, (E/T), 23:44476
wave resonances in, ion—ion hybrid, (T), 25:14390
wave resonances in, review of, (T), 24:37510
wave scattering and anomalous absorption in, light, (T), 24:3419
wave scattering and beam trapping in, laser, (E), 24: 10529
wave scattering and decay into plasma waves, light, (T), 23:34480
wave scattering and noise emission from rare gas afterglow, electromagnetic, (E), 23:30590
wave scattering and transformation in external electric and magnetic fields, electromagnetic, (T), 23:18716
wave scattering and transformation in magneto-, electrodynamics of, 21:18721
wave scattering by cylindrical inhomogeneous, electromagnetic, (T), 22:15538
wave scattering by electrons in, nonlinear ion—acoustic, (T), 23:34486
wave scattering by ellipsoidal, moving along external static magnetic field, (T), 23:10653
wave scattering by finite objects in compressible, electromagnetic, (T), 21:13598
wave scattering by fluctuations in bounded, reciprocity theorem for electromagnetic, (T), 24:37507
wave scattering by impedance half-plane in anisotropic, electromagnetic, (T), 21:780
wave scattering by imperfectly conducting spheres, (T), 24:49278 (SC-R-70-4277)
wave scattering by inhomogeneities in, supraluminous, (T), 22:31839
wave scattering by lf oscillations in electrodeless discharge, electromagnetic, (E), 24:40131 (KHFTI-69/52)
wave scattering by lf oscillations in theta-pinch, micro-, (E/T), 25:9520
wave scattering by magnetized columns of, near upper hybrid resonance, (E/T), 25:14382
wave scattering by metallic, absorption effects on optical, (T), 21:2242
wave scattering by moving column, analysis of obliquely incident micro-, (T), 24:8509
wave scattering by nonuniform columns of, upper hybrid resonance, (E/T), 24:26256
wave scattering by nonuniform magnetized column of, electromagnetic, (T), 24:21839
wave scattering by piece-uniform, with zero layer, (T), 22:24286
wave scattering by turbulent astrophysical, electromagnetic, (T), 24:46911
wave scattering by turbulent pulsations in inhomogeneous magnetized, electromagnetic, (T), 23: 14832
wave scattering by turbulent weakly ionized, electromagnetic, (T), 22:36940
wave scattering by turbulent, frequency spectra of microwave, (T), 24:51747
wave scattering by turbulent, time-dependent autocorrelation functions for light, (T), 22:29476 (NP-17456)
wave scattering by turbulent, transport equation for multiple electromagnetic, (T), 23:12901
wave scattering by, radiation transport approximation for electromagnetic, (T), 24:49211
wave scattering by, range of cyclotron resonances from, (T), 25:25181
wave scattering from anisotropic turbulence in, electromagnetic, (E/T), 22:39085
wave scattering from cylindrical inhomogeneous, electromagnetic, (T), 24:32865
wave scattering from electron density fluctuations micro-, 21:2228 (TID-23318, pp 93-121)
wave scattering from finite, electromagnetic, (T), 24: 26250
wave scattering from magnetically confined high-temperature, electromagnetic, (T), 24:8513
wave scattering from magnetized arc, laser, (E), 24: 15375
wave scattering from positive column of mercury discharge under free-space conditions, micro-, (E), 24: 8510
wave scattering from turbulent, microwave, (E/T), 24: 1458
wave scattering from turbulent, model for calculating, 25:14364
wave scattering from turbulent, scalar radiative transport model for electromagnetic, 24:8507
wave scattering from underdense slabs of, electromagnetic, (T), 24:1457
wave scattering from underdense turbulent, frequency effects of electromagnetic, (T), 24:47290
wave scattering fron anisotropic turbulence in, microwave, (T), 24:12868
wave scattering in bounded, nonlinear effects from electromagnetic, (T), 23:36740
wave scattering in compressible, boundary-value solutions for electromagnetic, 21:13590
wave scattering in compressible, ray optics solutions for electromagnetic and electroacoustic, 21:13589
wave scattering in external electric fields, oscillations from electromagnetic, 21:44091
wave scattering in inhomogeneous, electromagnetic, (T), 21:23199
wave scattering in magnetic fields, (E/T), 23:27662
wave scattering in magneto-, helical, 21:46338
wave scattering in magneto-, quasi-longitudinal, (T), 23: 14850
wave scattering in rarefied, electromagnetic, (T), 21: 25028
wave scattering in time-varying inhomogeneous, electromagnetic, (T), 24:3429
wave scattering in turbulent, electromagnetic-, (T), 25: 9481
wave scattering in underdense turbulent, electromagnetic, (T), 25:47586 (UCRL-20689)
wave scattering in waveguide, electromagnetic, (T), 24: 18015
wave scattering in, application to ionospheric irregularities of Brillouin, (T), 22:29333
wave scattering in, continuum theory of incoherent electromagnetic, 22:39113
wave scattering in, dispersion of pulsed electromagnetic, (T), 21:16933
wave scattering in, resonant cyclotron harmonic, (E/T), 23:39519
wave scattering in, theory for two-dimensional inverse, 24:51754
wave scattering in, time behavior of multiple electromagnetic, 21:754 (AD-631339)
wave scattering in, turbulence determination from electromagnetic, 21:2249
wave scattering near ion cyclotron frequency in inhomogeneous, electromagnetic, (T), 23:12919
wave scattering on anisotropic hollow column, resonances in electromagnetic, (T), 24:15374
wave scattering on anisotropic, diagnostics from electromagnetic, 21:3816 (AD-642123)
wave scattering on anisotropic, electromagnetic, (T), 21: 7267
wave scattering on argon, index of refraction from, 21: 13552 (AD-641387)
wave scattering on beam—plasma system, microwave, (E), 25:33346
wave scattering on charged particles in, cross sections for electromagnetic, 22:5327(T) (AD-659875)
wave scattering on collisional, density effects on magneto-Kerr effect in, (E), 21:18699
wave scattering on column of, free-space electromagnetic, (E), 23:5432
wave scattering on compressible cylindrical, oblique incidence electromagnetic, 21:31450
wave scattering on critical electron density fluctuations in, use of Born theory for, 25:14363
wave scattering on cylindrical, angular distribution from electromagnetic, (E/T), 21:7218
wave scattering on cylindrical, electromagnetic, (E/T), 22:50126(R) (EUR-CEA-FC-352)
wave scattering on dense, diffusion of laser light, (E), 23:10665
wave scattering on density fluctuations in alkali, electromagnetic, 22:41602
wave scattering on density fluctuations in collisionless shocks, laser, 23:44404
wave scattering on density fluctuations in cylindrical, electromagnetic, (T), 21:31449
wave scattering on density fluctuations in, electromagnetic, (T), 21:11623 (N-66-19146)
wave scattering on electron density fluctuations in, Tonks—Dattner resonances from laser, (E/T), 24: 10520
wave scattering on ellipsoidal formations in atmosphere, electromagnetic, (T), 24:49223
wave scattering on field-aligned columns of, radio frequency, (T), 22:26412
wave scattering on finite-volume turbulent, electromagnetic, (T), 23:44467
wave scattering on fluctuations in beam—plasma system, (E), 23:48891
wave scattering on half-space, Maxwell—Vlasov equation for, 21:18688
wave scattering on high-temperature, spectra from electromagnetic, 21:42084
wave scattering on hydrodynamic pulsations of turbulent, electromagnetic, (T), 23:23202
wave scattering on hydrodynamic pulsations of turbulent, electromagnetic, (E), 23:34477(T) (N-69-22179)
wave scattering on hydrogen, cross sections for electromagnetic, 21:5255
wave scattering on inhomogeneous and nonstationary, electromagnetic, (T), 21:42061
wave scattering on inhomogeneous collisionless cylinders of, electromagnetic, (T), 22:29492
wave scattering on ion-acoustic oscillations in finite, Raman, 21:40004
wave scattering on ionospheric, effect of electron and ion collisions on Thomson electromagnetic-, (T), 25:22420
wave scattering on ionospheric, proton gyroresonance in incoherent, 21:40019
wave scattering on large inhomogeneous sphere, cross sections for radar, (T), 24:17983 (SC-DC-69-1720)
wave scattering on lf magnetoacoustic waves in, magnetohydrodynamic, (T), 25:47587
wave scattering on longitudinal oscillations in, cyclotron, (T), 24:37521
wave scattering on magnetically confined, micro-, (E), 21:25127 (N-67-11358)
wave scattering on magnetized column of, dipolar resonances in plane, 24:51753

wave scattering on moving cylindrical, electromagnetic, (E/T), 23:51739
wave scattering on multicomponent, laser, (T), 23:12858
wave scattering on nonhomogeneous rotating ellipsoidal, electromagnetic, (T), 22:9376
wave scattering on relativistic, depolarization of light, (T), 22:26366
wave scattering on spherical electron cloud, hf, 24:5184 (AD-691428)
wave scattering on spherical, electromagnetic, (T), 22:26382 (SC-R-68-1691)
wave scattering on spherical, electromagnetic, (T), 22:26383 (SC-R-68-1692)
wave scattering on thetatron, ion effects on cross section of light, 21:9571
wave scattering on turbulent oscillations in, electromagnetic, 22:44198
wave scattering on turbulent, limits of validity of Born approximation for, 21:42091
wave scattering on turbulent, power spectra of radar, (T), 24:26262
wave scattering on turbulent, shf electromagnetic, (T), 25:58996
wave scattering on ultrarelativistic electrons in, radio noise generation by, 25:35896
wave scattering on, characteristic curves for collective electromagnetic, (T), 25:14375
wave scattering on, cross section for fundamental modes of electromagnetic, 23:3485
wave scattering on, diagnostics from micro-, 21:18649
wave scattering on, energy conversion in, 23:6988 (NP-17701)
wave scattering on, induced Compton effect in, (T), 23:42285(T) (AEC-tr-7051)
wave scattering on, model for diagnostic use of electromagnetic, (T), 21:15120
wave scattering on, nonlinear incoherent light, 21:33446
wave scattering on, nonlinear processes in electromagnetic, (T), 24:24094
wave scattering on, oblique incidence electromagnetic, (T), 22:19994
wave scattering on, particle collisional effects on electromagnetic, 21:42108
wave scattering on, radiated power from electromagnetic, 23:8600
wave scattering on, statistical properties of coherent, (T), 21:13588
wave self-trapping and instability in cold magneto-, hydromagnetic, (T), 22:39132
wave spectra in, quasi-linear relaxation of ion-acoustic, (T), 24:24089
wave stability in collisionless, cross-stream, (T), 24:15345
wave stability in finite-pressure, effects of gyro-relaxation on, (T), 24:49212
wave stabilization by feedback in mirror-confined, drift, (E), 24:28315
wave stabilization by generalized boundary conditions, ion—acoustic and drift, 24:42710
wave stabilization by random fields in sodium, drift-, (T), 22:7335
wave stabilization in, magnetic well effects on helical, 21:15206
wave stabilization in, quasi-linear calculation with allowance for spontaneous emission, (T), 25:9524
wave structure in multicomponent collisionless, nonlinear, (T), 23:36754
wave structure in rarefied, solitary, (T), 23:39514
wave structure in, variational calculations of magnetohydrodynamic, 22:1194 (LA-3770, Paper F4)
wave structure of ion—acoustic fronts in collisionless, (T), 24:21829
wave suppression in cesium by ac electric fields, drift, (E), 23:32519
wave theory for, experimental verification of microscopic, (E), 23:10630 (SU-IPR-250)
wave theory of, effective density and experimental tests of, 21:42074
wave trajectories in anisotropic, near resonance, (T), 22:47966
wave transformation and absorption in inhomogeneous beam—plasma system, (T), 23:25408
wave transformation and absorption in, hf, (E/T), 25:38516 (CONF-710607-140)
wave transformation and absorption in, linear, (E/T), 24:49222
wave transformation and absorption in, linear, (T), 25:56250
wave transformation and decay processes in inhomogeneous, second harmonic, 24:51759
wave transformation and emission from beam—plasma discharge, density effects on, (E/T), 25:59104
wave transformation and scattering in electric field-immersed, electromagnetic, (T), 22:22163
wave transformation at upper hybrid resonance, for oblique incidence, (T), 25:59082 (CEA-CONF-1803)
wave transformation between electron cyclotron and low hybrid frequencies, (T), 25:5131
wave transformation conditions in longitudinally inhomogeneous, microwave, (E), 25:47584 (NP-18913)
wave transformation from, on vacuum boundary of, longitudinal-to-transverse, (T), 24:49221
wave transformation in cold magneto-, surface-to-longitudinal, (T), 25:25191
wave transformation in inhomogeneous hot layers of, (T), 25:33329
wave transformation in inhomogeneous magnetized, linear, (T), 23:46506(T) (AEC-tr-7069)
wave transformation in inhomogeneous, anomalous, 24:18000
wave transformation in inhomogeneous, effect on threshold currents of beam instability in, (T), 25:14371
wave transformation in inhomogeneous, nonlinear effects of, (T), 21:9594
wave transformation in inhomogeneous, theory of linear, 25:36224
wave transformation in magnetized nonuniform, linear, (T), 24:3434
wave transformation in magnetized, effects of electron density on resonance phenomena in uhf, (T), 24:35515
wave transformation in magnetoactive, hf weakly damped, (T), 24:35493
wave transformation in weakly inhomogeneous, (T), 21:18675
wave transformation in, anomalous, (T), 21:3899
wave transformation in, coupled equations for electromagnetic, (T), 25:59105
wave transformation into electromagnetic wave at dielectric boundary, analysis of longitudinal, 22:46151
wave transformation into longitudinal oscillations in waveguides, surface, (T), 25:52860 (KHFTI-70/55)
wave transformation into longitudinal oscillations in inhomogeneous, near ideally conducting surface, (T), 25:52859 (KHFTI-70/54)
wave transformation regions in uhf discharges, microwaves, (E), 25:47583 (NP-18912)
wave transformations in inhomogeneous, (T), 21:33406 (NP-16829)
wave transformations in, kinetic and hydrodynamic theory of nonlinear, (T), 23:42361
wave transmission and reflection at boundary of relativistic, electromagnetic, (T), 23:16841
wave transmission in low-pressure argon, in GHz-frequency range, electroacoustic, 21:31398 (IPP-3/51)
wave transmission in magnetic quadrupole confined, drift, (E/T), 22:15517 (GA-8074)
wave transmission through hypersonic air, electromagnetic, 22:1196 (SC-CR-67-2710)
wave transmission through slab, calculation of electromagnetic, (T), 24:3417 (SC-R-69-1369)
wave trapping in, nonlinear theory of electromagnetic, 25:36230
wave—particle beam interactions in, hydromagnetic, (T), 25:9455 (AD-705265)
wave—particle interactions in cold, large-amplitude, (T), 24:47285
wave—particle interactions in flute-like hf mode in, energy transfer in, (T), 25:40705
wave—particle interactions in inhomogeneous one-dimensional, (T), 24:21834
wave—particle interactions in weakly turbulent magneto-, (T), 22:26405
wave—particle interactions in weakly turbulent, in magnetic fields, (T), 23:23211
wave—particle interactions in weakly turbulent, nonlinear effects of, (T), 22:19989
wave—particle interactions in weakly turbulent, stochastic acceleration in, (T), 25:17182
wave—particle interactions in, for particles with double-hump distribution function, (E), 23:20955 (CEA-CONF-1064)
wave—particle interactions with cylindrical, resonant, (T), 25:14362
wave-coupling coefficients for Bernstein modes, 25:40710
wave-particle scattering in magnetic fields, nonlinear, (T), 25:33350
wave-propagation in, definition of positive and negative energy, (T), 25:56239
waves in argon discharge, effect of neutrals on lf, (E), 24:51737
waves in beam waveguide, normal modes of, 22:11464
waves in beam—plasma system, unstable, (T), 23:34429 (ORNL-4401, pp 1-24)
waves in boundary of, relation of transverse, surface, and longitudinal, 22:9349
waves in bounded, hot, electrostatic, (T), 22:39109
waves in cold, frequency shift of nonlinear extraordinary, (T), 21:27183
waves in cold, theory of cyclotron, 22:7322
waves in collision-dominated slab, lf, (T), 25:14385
waves in collisional, nonlinear instabilities from Langmuir, 22:50145 (JINR-P9-3979)
waves in collisionless, water bag model in phase space for, (T), 24:47291
waves in compressible isotropic turbulent, dispersion relations for, (T), 23:20966
waves in current-carrying bounded, surface, (T), 24:28356
waves in current-carrying cold bounded, long-wavelength surface, (T), 24:28355
waves in cylindrical, effect of electric field and Debye length on drift, (T), 23:51718 (CEA-CONF-1389)
waves in cylindrical, field of electron cyclotron, 22:3125
waves in cylindrical, resistive loading near lower hybrid resonance, (T), 23:44477
waves in DCX-2 device, microinstability-coupled drift, (E/T), 23:34456 (ORNL-4401, pp 52-78)
waves in decaying mercury, large-amplitude ion, (E), 24:26263
waves in dense, properties of, (T), 23:27209 (AD-680415)
waves in electron, method for solving linearized dispersion equation for, 23:46521
waves in finite conductivity, model of Alfven, (T), 22:9367
waves in finite, dispersion relation for, 23:32531
waves in half space, longitudinal, 22:34645 (N-68-10073)
waves in half-space, longitudinal, 23:1461
waves in high-β, two-fluid approximation for small-amplitude, (T), 23:25416
waves in highly ionized, correlation measurements of ion acoustic, 22:41598
waves in homogeneous, effects of temperature relaxations on, (T), 23:18708
waves in hot, surface, (T), 23:44478
waves in inhomogeneous column of, resonances in, 22:52788
waves in inhomogeneous incompressible, resistively modified normal modes of, (T), 23:25419
waves in inhomogeneous magneto-, first-order coupled differential equations for, 21:46369
waves in inhomogeneous mirror geometries, destabilization of negative energy, (T), 23:25401
waves in inhomogeneous warm magneto-, linear equations for coupled, 22:22174
waves in inhomogeneous warm, dyadic in theory of, 23:1440
waves in inhomogeneous warm, theory of, 23:8610
waves in inhomogeneous, effect of second-order terms on second harmonic and sum and difference frequency generation in, (T), 22:17641
waves in inhomogeneous, fluid-like electron and ion modes of, (T), 22:50186
waves in inhomogeneous, near second harmonic of electron cyclotron frequency, (T), 21:40001 (NP-16979)
waves in ionospheric, Landau damping of, (E), 22:13339
waves in isotropic electron, Landau, (E), 22:7294
waves in isotropic Lorentz, electrostatic relaxation, 21:42079
waves in linear regime, collisional drift, (E/T), 24:18004
waves in low-pressure, instability of magneto-acoustic, 22:9333
waves in magnetized, negative group velocity of, (T), 23:14847
waves in magneto-, decay instability of Alfven, (T), 22:50158
waves in microparticle, dispersion relations for longitudinal and transverse, (T), 22:29503
waves in multicomponent, dispersion relations for linear, (T), 23:14834
waves in nonequilibrium discharges in potassium-seeded argon, electrothermal, (E/T), 24:18010
waves in nonequilibrium, electrothermal instabilities from, (E/T), 23:27665
waves in nonisothermal, collisional drift, (E), 21:33363 (MATT-Q-24, pp 1-195)
waves in nonuniform magnetized, hf electrostatic, (T), 23:20972
waves in periodic slab, gravitational and drift, (T), 22:19960 (CLM-R-83)
waves in positive column, asymmetric modes of low-frequency, (E), 23:32370 (SU-IPR-288)
waves in positive column, axisymmetric modes of, (T), 23:18696
waves in positive column, axisymmetric modes of, (T), 23:18697
waves in Q device, soft and hard onset of collisional drift, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
waves in quiescent magneto-, dispersion relations for lf, 21:31422 (ARL-67-0055)
waves in rare gas discharge, ion, 22:7321
waves in rarefied, kinetics of, (T), 23:32538
waves in rf bounded, effect on density of, (T), 23:1451
waves in spatially inhomogeneous, dispersion of upper hybrid mode in, (T), 23:14842
waves in strongly magnetized inhomogeneous warm, theory of, 22:44143
waves in three-component, dispersion relations for linear, (T), 23:14835
waves in uniform warm viscous, with electron drift, 23:25413
waves in unstable, finite-amplitude drift, 23:5422
waves in warm collisionless, solitary, (T), 23:39520
waves in warm magneto-, review of cyclotron harmonic, 22:3050 (SU-IPR-189)
waves in waveguides of, dispersion properties of, (E), 23:34484
waves in weakly ionized hf magneto-, unstable, (E), 23:25415
waves in weakly ionized multicomponent, linear, (T), 23:14836
waves in weakly ionized, charged-particle motion in sound, (T), 24:1454
waves in weakly ionized, collisional effects on ion—acoustic, (E), 23:44468
waves in weakly ionized, decays of ion-sound, 21:42114
waves in weakly ionized, ion—acoustic, (T), 23:23194
waves in weakly ionized, parametric excitation of ion, (T), 22:7285
waves in weakly turbulent, test, (T), 21:33489
waves in, amplitude limitation of collisional drift, (T), 25:9495
waves in, analog device for computing dispersion relations for electron, 25:9517
waves in, asymptotic solution of Korteweg—de Vries equations for nonlinear dispersive, 22:9326
waves in, collisional drift modes of, (T), 21:33362 (MATT-Q-24, pp 197-334)
waves in, conference on space and laboratory, Roeros, Norway, 4/68, 25:17002
waves in, constants of motion for perturbation of large-amplitude electrostatic, (T), 23:18698
waves in, coupling at shock front between electron—acoustic and ion—acoustic and electromagnetic, (T), 22:39129
waves in, critical fluctuations and growth rates associated with collisional drift, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
waves in, damping and reflection of ion—acoustic, (E), 22:41573
waves in, diagnostic use of ion sound, 21:35148 (ORNL-4089)
waves in, dispersion relations for drift, (T), 23:12928
waves in, effect of heat transport on dispersion relation of collisional drift, 24:26281
waves in, effect of weak collisions on ion—acoustic, (T), 24:19928
waves in, electron current and distribution function for electron, (E/T), 25:1240 (CEA-CONF-1600)
waves in, electron cyclotron resonance effect on helicon, (E/T), 23:5410
waves in, electron density in acoustic, (E), 22:11422
waves in, energy density of acoustic, (T), 22:5363
waves in, energy transfer from whistlers to electrostatic modes by trapped particle instabilities in, (T), 24:42724 (SIT-3785-11)

waves in, evolution of nonlinear ion acoustic, (T), 22:7281
waves in, feedback stabilization and mode coupling of ion, (E), 24:26234
waves in, finite ion Larmor radius and ion—ion collisional effects on drift, (E), 23:32526
waves in, finite-amplitude resistive drift, 22:34672
waves in, generation of sum and difference frequencies by microwave fields, (T), 23:20964
waves in, higher-order Landau modes of, (T), 23:18700
waves in, in strong electric and magnetic fields, fluctuations and scattering of, (T), 23:8623
waves in, ion—ion collision effects on drift, 21:20970
waves in, Korteweg—de Vries and Burger equation for, 23:27664
waves in, losses caused by collisional drift, 22:3132
waves in, magneto-gravity, (T), 22:39083
waves in, magnetostatic field perturbations from hf, (T), 23:32510
waves in, method for solution of Korteweg—de Vries equation for, 22:3053
waves in, mode—mode coupling of collisional drift, (T), 23:23198
waves in, model for shock-like electrostatic drift, 21:27214
waves in, modes of internal magneto-gravity, 22:48101 (N-68-23990)
waves in, modification of Bernstein modes by electron—electron collisions, 24:19931
waves in, modification to Harris quasi-linear equations for, 22:9338
waves in, negative cyclotron resonance absorption, 22:39107
waves in, nonlinear effects in transverse, (T), 24:49213
waves in, nonlinear effects of large-amplitude, 22:41597
waves in, nonlinear kinetics of ion, 22:41617
waves in, nonlinear theory of longitudinal, 21:31457
waves in, numerical solutions for linear confining potential, (T), 22:31846
waves in, one-dimensional models for nonlinear, (T), 23:32524
waves in, parametric resonance in magnetosonic, 21:42115
waves in, perturbation method for nonlinear modulation of, 24:10577
waves in, power dissipation or generation from excited modes in, (T), 23:18687 (CONF-680113-(Vol.1), pp 491-7)
waves in, production of vorticity from sound, 21:27184
waves in, properties of collisional drift, 23:1478
waves in, properties of large-amplitude steady electrostatic, (T), 23:32535
waves in, pulsating distributions of turbulent sound, (T), 21:16941
waves in, relativistic MHD Alfven, 22:52607
waves in, research on electromagnetic modes, 23:48942 (AD-690537)
waves in, self-trapping and self-focusing of electromagnetic, (T), 22:31813
waves in, spectral resolution and solution of field problems for, (T), 23:12936
waves in, stability of electrostatic drfit, (T), 22:44141
waves in, stop- and pass bands for harmonic ion cyclotron, (E), 23:18703
waves in, structure of Bernstein modes of, (T), 23:12916
waves in, structure of MHD, (T), 22:24108
waves in, summaries of conference papers on, 22:7311
waves in, theory for electromagnetic, (T), 23:25391 (AD-677649)
waves in, total energy of, (T), 23:5419
waves in, wavelength measurements for, (E), 23:30580 (CEA-R-3740)
waves in, weak turbulence theory of resonant four, (T), 23:14839
waves with a magnetic field in cosmic, nonlinear ion, (T), 23:5095
waves with finite amplitude in, drift, (T), 22:7301
wires in arc, ionization effects on heat transfer to, (E/T), 25:7378
x-ray emission from dense deuterium focus, intensities and energy distributions of, (E), 23:48937
x-ray emission from focused z-pinch deuterium, 22:1281 (LA-3770, Paper C6)
x-ray emission from focused z-pinch deuterium, 22:1281 (LA-3770, Paper C6)
x-ray emission from high-temperature low-density, (T), 25:49664
x-ray emission from hot, in Cygnus Loop, (E), 25:30132
x-ray emission from linear turbulent-heated mirror-confined, (E), 22:52764
x-ray emission from solar, (E), 22:13172
x-ray emission in 0.5 to 50 A range, curved-grating spectrograph for, 24:14363
x-ray measurements from laser-induced breakdown in air, (E), 24:28251
x-ray production by laser heating of high-z planar, efficiency of, (T), 24:15271
x-ray production from bremsstrahlung in laser-created deuterium, (E), 23:14755
x-ray production from bremsstrahlung in SCO X-1, (T), 22:5005
x-ray production in coaxial discharge tubes, (E), 23:14780
x-ray spectra from pinch, Ross filter system for measuring, 24:26174 (AD-699202)
x-ray spectra from, regularization technique for electron energy distribution function for, 25:56134 (ORNL-TM-3582)

PLASMA ACCELERATORS
acceleration process in stabilized high-current arc, 23:3476
actuators for, design of thermal expansion, 21:3881(P)
anode losses in coaxial Hall, 21:27168
arc rotation in coaxial MPD thruster, equations for, (T), 24:15185
arc-front structure in MHD, (T), 25:47552
beam focusing system for, properties of, 21:15178
boundary effects on operation of, (E/T), 22:46139(R) (N-68-23572)
boundary layer growth in, gas—surface interaction effects on, (E), 23:36666 (AD-681519)
boundary layers in seeded diatomic gases in, electric properties of, 23:1405 (AD-671528)
boundary layers in, ionization and thermal nonequilibrium in, (E), 25:43352 (AD-715272)
charged particle energy in coaxial, effects of impurities on, (E), 23:14770
charged-particle acceleration in electrodynamic, (T), 24:10541
charged-particle interactions with current layers in, (T), 22:26396
charged-particle motion in, effects of mass transfer processes and resistance forces on, (T), 23:25349
charged-particle motion in, with crossed electric and magnetic fields, 21:16911 (INR-712/VII/PP)
circuit for traveling wave, design of feedback, 24:11890
circuit phase-velocity tapering in crossed-field, 21:5291
control system for AMICON 8000 kW, automatic, 24:45237
current and voltage measurements in DP, 21:16913 (INR-714/XVIII/PP)
current density in progressive-wave, 21:31453
current distribution between electrodes of coaxial, 21:18709
current distribution in exhaust plume of pulsed, 21:44032(R) (N-67-25493)
current distribution in homopolar, 21:7259
current distribution in nonequilibrium J x B devices, (T), 22:7298
current distribution in pulsed rail-type, with dielectric erosion, 24:49203
current distribution measurements in coaxial, using magnetic probes, (E), 24:49136
current distributions in coaxial, 22:46160
current distributions in coaxial, (E), 21:3876
current measurements in MPD, spoke, (E), 23:20909
current pattern and gas flow stabilization in pulsed, (E), 24:17905
current pattern stabilization in pulsed, 23:3472
current pulse development between plane electrodes, two-step, (E), 24:37449
current ratios in coaxial, 24:19914
current sheath structure in dense focus, (E), 25:56157
current sheet structure in parallel-plate rail-type, (E), 24:40124
current sheets and gas flow stabilization in pulsed, (E), 24:30332
current sheets in coaxial, calculation of, 24:30346
current sheets in coaxial, dynamics of, 21:2237
current sheets in, steady one-dimensional motion of, (T), 22:52775
current spokes in arc, rotation properties of, 25:36111
current spokes in arcs, occurrence and properties of, 25:36110
current-sheet velocity in coaxial, (E/T), 24:32828
currents in betatron, runaway electron, 21:20971
description, 22:31783
description and performance of 500-kJ pulsed MHD, as wind tunnel, 24:17740
design and operation of hf, 21:13560 (AGARD-CP-8(Vol.2), pp 643-58)
design and operation of, flute instabilities in, 21:37501 (EUR-2530.f)
design and performance for plasma injection into toroidal octupoles, 25:56220
design and performance for thermonuclear research, 23:32498
design and performance of disc focus, 25:27794
design and performance of gun-type, 21:27204(P)
design and performance of high-velocity, 21:11644
design and performance of induction, with reduced impurity content, 24:37497
design and performance of MPD arc, 21:18668(R) (N-67-13101)
design and performance of titanium electrode, 21:46363
design and performance of titanium hydride, (E), 25:47557
design and performance of traveling-wave magnetic field, 25:14358
design for aerophysical studies, at high pressures, 23:8613
design for producing single pulses, 21:44114
design for propulsion thrust, 25:36105(P)
design for solid hydrogen injection into INGRA device, 25:38361 (CONF-710607-89)
design for thermonuclear reactors, 21:3815(P)
design for use with stellarators, (E), 23:32329
design of, 21:3882(P)
design of 20-MW linear Faraday-type, 25:47575 (N-71-15819)
design of coaxial, for quadrupole injection experiment, 24:24028 (LA-4250, pp A3.1-6)
design of conical electrode, 21:2267
design of converging-barrel, 25:43350(P)
design of electrodeless, 21:11660(P)
design of fast-pulsed, using pulsed coils, 21:25156(P)
design of homopolar, 23:16792(P)
design of ion sources for high-temperature plasmas, 24:30349
design of magnetic, for plasmoids and metallic projectiles, 25:40696(P)
design of magnetoelectric DP, 21:16910 (INR-711/XVIII/PP)
design of mercury electron-bombardment ion thrusters, 25:59011
design of microwave-cavity, 25:45459 (EUR-CEA-FC-596)
design of pulsed, 21:7272(P)
design of pulsed, 21:7271(P)
design of pulsed, with high-current runaway electrons, 21:20975
design of quasi-dc, for plasma injection experiments, 23:3492
design of rail-type, optimum length, 21:5277
design of rod injector, for strongly focused jets, 24:19903
design of rod-type DP, 21:16912 (INR-713/XVIII/PP)
design of stabilized, for plasma interaction studies, (E), 23:44409
design of theta pinch, for high-beta injection into magnetic fields, (E), 24:42675
design of theta-pinch focus machine, 24:24065 (LA-4250, pp E6.1-6)
design of theta-pinch, (E), 23:36723 (AD-686715)
design using magnetic field annihilation, 25:52832 (AD-721214)
design utilizing gas-cooled electrodes of low work function material, 22:22186(P)
development and application of microwave-powered, for space propulsion, (T), 24:26169
development and operation of, review of, 21:18735
development and testing of quasi-steady, 24:32827
development for long-duration and high-velocity flows, 23:20951
development for open-ended fusion reactors, requirements for, 25:3131 (ORO-1171-1, pp 3-37)
development for propulsion, 22:12216
development for space propulsion, 22:13303
development for space vehicle propulsion, 21:9597
development of, 22:5302(R) (JUL-494-PP)
development of, 25:33286(P)
development of 50 kV spark-gap, 21:2256
development of coaxial high-energy, 22:1252 (LA-3770, Paper E2)
development of continuous flow pinch, (E/T), 23:14739(R) (LA-4075)
development of continuous traveling-wave, 23:30380(T) (AEC-tr-7044)
development of CW traveling-wave, for pinched plasma toroids, 21:44049(R) (AD-651595)
development of deflagration, (E/T), 25:3078
development of electrode feed system for MHD, for wind tunnel, 21:33240 (SSD-TR-67-74)
development of Hall-type, 21:7208(R) (AD-638677)
development of Hall-type, for plasma injection into fusion devices, 25:25169
development of Homopolar II, 21:11634 (UCRL-50002-66-1, pp 110-25)
development of induction coupled, for chemical reaction studies, 21:46371
development of inductive standing-wave, 23:30380(T) (AEC-tr-7044)
development of magnetic annular arc, 21:7210(R) (N-66-27315)
development of magnetic induction, 21:9561 (NASA-CR-54762)
development of microwave-energized, for operation near cyclotron resonance, 22:1200
development of mushroom-type, 21:9523(R) (LA-3628)
development of pulsed gun, 22:11404(R) (LA-3831)
development of pulsed, (E/T), 23:16788(R) (N-68-32550)
development of ring-type, 21:16932
development of, ionizing fronts in, 24:28133 (AD-699253)
development of, theory for, 25:40697
development parameters for crossed-field stationary MHD, at medium pressure, 24:17906
duct optimization for MHD, for high specific impulses, (T), 24:28150
electric arc stability in thermionic rail, (T), 22:43967
electric discharge interactions with self-induced magnetic fields in, 21:37442 (ARL-67-0007)
electric potential breakdown problems in dense focus, 25:38497 (CONF-710607-40)
electric potential distribution for, (E), 22:26420
electric potential distribution in coaxial, (E), 23:51715
electrode effects on neutron emission from focus, 24:19911 (AD-687874)
electrode effects on performance of, (E), 25:56153
electrode erosion in coaxial, 25:33289
electrode erosion in pulsed, (E), 22:50190
electrode erosion in pulsed, cathode, (E), 22:50191
electrode erosion in pulsed, material evaluation for, 25:36207
electrode erosion in quasi-stationary, 24:26182
electrode erosion in rel'sotron device, (T), 23:51716
electrode erosion in system with inductive energy storage, (T), 24:3407
electrode feed system for segmented-electrode MHD, 21:42095
electrode heat transfer properties in MPD ard, 23:1466
electrode metal effects in deuterium focus, 24:45287
electrode phenomena in rail-type, 21:2220 (AD-630703)
electromagnetic field in induction, properties of, (T), 21:44090
electron and ion temperature measurements in DP, 21:16903 (INR-718/XVIII/PP)
electron density and temperature in coaxial, spectroscopic measurement of helium, 21:39996
electron energy spectrum in linear plasma betatron, 24:49142
electron injection velocity in hf, effects on magnetic moment of electron of, 21:27201
electron orbits from high-frequency fields in, calculations of, 21:25135
electron runaway measurements in betatron, 21:33427
electrostatic shock waves in high-frequency, (T), 21:42129
energy absorption in high-frequency, 22:9311
energy balance in high-frequency, (T), 23:18646 (CONF-680113-(Vol.2), pp 637-42)
energy balance of helium plasma from pulsed inductive, spectroscopic measurements, 25:22536
energy characteristics of pulsed, with dielectric erosion, (E), 24:51726
energy storage system for, exploding-wire pulsed charging of capacitor, (E), 23:32490
energy-scaling of dense plasma focus, (E), 23:36727 (SC-RR-69-323)

equilibrium in betatron, with azimuthal magnetic fields, (T), 23:48922
feasibility of Hall-current and self-magnetic, 25:9438
feasibility of, with inductive MPD converters, 25:9439
field calculations for hf self-consistent, (T), 23:18643 (CONF-680113-(Vol.1), pp 101-18)
flow control in arc, by electromagnetic fields, 21:27171
flow process in Hall current, 21:29243
fluid flow in, with progressive waves, 22:29326
gas feed system for coaxial, design of fast opening high pressure pulsed valve for, 23:32491
gas properties in coaxial, analysis of, (E), 22:17611 (INR-P-861/XVIII/PP)
gas properties in coaxial, probe measurements of electron temperature, 22:17631 (INR-P-851/XVIII/PP)
gas source for pulsed, nitrogen, 21:46378
gas valves for high pressure operation, development of, 23:14739(R) (LA-4075)
Hall current measurements in homopolar, 21:29249
heat fluxes in pulsed erosion-type, (E/T), 24:28265
heat losses in pulsed, 22:44154
heat transfer through cathode spot of quick-flow electric arc in coaxial, (E), 23:14813
impurities in induction-type, analysis of, 22:20011
injection into high-frequency, optimization of position of, 21:29260
ion acceleration by space-charge fields in hf, (T), 23:18645 (CONF-680113-(Vol.2), pp 605-35)
ion acceleration in traveling-wave, at electron cyclotron resonance, (E), 23:18627 (CONF-680113-(Vol.2), pp 769-74)
ion distribution function for dense focus, self-consistent calculations for, 25:38427 (CONF-710607-43)
ion drag and current partitioning at cathode of, (E), 23:25389
ion heating in dense plasma focus, (E), 25:9401
ion kinetics after combining two hf, (E), 21:31460
ion motion in double-lens, with closed electron drift, (T), 25:49886
ion source performance analysis for use with Hall-type, 24:45278
ion sources for Hall, high-current hollow cathode, 25:59080
ion trapping in high-frequency, (T), 21:42129
ion velocities in rod injector, monochromator measurements of, 24:28240
ion velocity measurements from rod, using monochromators, 22:34590 (INR-P-883/XVIII/PP)
ion—neutral coupling in high-power MPD, 25:30599(R) (N-71-10100)
ion-slip limitations on currents in Hall-type, (E/T), 25:7422
ionization kinetics in crossed field, (E), 22:34688
ionization phenomena in coaxial and parallel-plate, pre-, 22:1253 (LA-3770, Paper E5)
jet acceleration in electrodynamic, effects of neutral gas ionization on, (T), 24:10547
jet acceleration in rail- and Marshall-type, effect of drag on, (T), 24:37463
jet conductivity and velocity in medium-frequency electromagnetic fields, (E), 23:18625 (CONF-680113-(Vol.2), pp 727-41)
jet conductivity in, effects on current distribution and thermal flux in, 25:22503
jet confinement and ion energy in dense focus, 25:38496 (CONF-710607-38)
jet current densities in homopolar, 21:44079
jet current sheet tilt in parallel-plate rail-type, 25:19668
jet density and energy in high-power rf, 21:39997
jet density and temperature from pulsed coaxial, 22:52756
jet density in electrode gap of coaxial, hydrogen, (E), 24:40068
jet density profile measurements from coaxial, 22:34585 (AD-660588)
jet diagnosis in coaxial snowplow discharges, (E/T), 23:14739(R) (LA-4075)
jet diagnostics from coaxial, fast neutral, (E), 23:23097
jet diagnostics from coaxial, Schlieren method, (E), 25:25095
jet diagnostics in coaxial snowplow discharges, (E/T), 23:44395
jet diagnostics in coaxial, (E/T), 24:8437(R) (N-69-38697)
jet diagnostics in coaxial, current sheet velocity, (E), 23:16780(R) (N-68-34518)
jet diagnostics in coaxial, spectra of cesium, 22:1158 (LA-3770, Paper E7)
jet diagnostics in coaxial, transient argon spectra, 22:1157 (LA-3770, Paper E6)
jet diagnostics in coaxial, using gas lasers and interferometers, 25:11871
jet diagnostics in dense focus, by Thomson scattering and neutron anisotropy, 25:38399 (CONF-710607-39)
jet diagnostics in dense focus, neutron and x-ray production, (E), 25:14359
jet diagnostics in dense focus, using charged particle from d,d reactions in, (E), 25:30475(T) (LA-tr-71-6)
jet diagnostics in disc dense focus device, 25:33239
jet diagnostics in focus, using laser scattering, 24:17884 (CEA-CONF-1344)
jet diagnostics in magnetohydrodynamic, (E), 25:36096
jet diagnostics in parallel-plate rail-type, current sheet tilt in, 25:25106
jet diagnostics in rod-plasma-injector, using magnetic probes and photomultipliers, 25:11883
jet diagnostics in, fiber optics observation system for, 24:19876
jet diagnostics in, using induction volometry, (E), 23:25313 (AD-674615)
jet distribution measurements in coaxial, 22:52743
jet dynamics in pulsed, (T), 22:29518
jet fine structure in focus, using x-ray pinhole cameras, 25:9412(T) (LA-tr-70-25)
jet flow in cylindrical traveling-wave, two-species, 24:17909
jet flow in homopolar, (E/T), 25:36205
jet flow in progressive wave, kinetics of, 21:42078
jet flow in traveling wave, (T), 21:13564 (JPL-TR-32-1018)
jet flow properties in progressive-wave driven, 21:18722
jet flow properties of electromagnetic, carrier, 21:33414
jet flow rates in pulsed, aluminum and copper, (E), 25:22519
jet flow velocities and temperatures in, correlation between experimental and theoretical predictions, 25:17148
jet flux inhomogeneities in pulsed electromagnetic, (E), 25:22502
jet focus formation in coaxial, (T), 25:38499 (CONF-710607-42)
jet focus in end of coaxial, properties of, (E/T), 23:32361
jet focus near end of coaxial, (E), 23:32378
jet focus structure in coaxial, Schlieren and shadow pictures of, (E), 23:51598 (CEA-CONF-1373)
jet focusing near inner electrode of coaxial, striograms of, 23:23120
jet formation and structure in dense focus, (T), 25:47542
jet formation in Bostick, creation model of, 24:49178
jet instabilities in coaxial Hall, onset of, 24:17972
jet instability in crossed-field, onset and suppression of, 23:1495 (N-68-29902)
jet kinetics in conical induction, (E/T), 23:8618
jet kinetics in MHD, macroscopic analysis of, 21:42050 (LA-3736)
jet motion in homopolar, three-dimensional, (E), 23:51642
jet motion in pulsed, theory for, 25:33248
jet parameters in dense z-pinch, 24:47217(T) (LA-tr-69-26(Draft))
jet patterns in quasi-steady arcs, argon, 25:14281
jet production in coaxial, fast-particle, (E/T), 24:40125
jet properties from focused hydrogen, 22:36912 (N-68-16784)
jet properties in coaxial conductivity and temperature, 22:31796
jet properties in coaxial, (T), 25:25103
jet properties in coaxial, current layers in, 21:44083
jet properties in E x B, 21:40033
jet properties in high-frequency, (E/T), 23:32496
jet properties in homopolar, 25:5089
jet properties in plasmatron, 21:37477
jet properties in propagation current sheet, argon, 22:31843
jet properties in pulsed electromagnetic traveling-wave, 23:1411 (JUL-524-PP)
jet properties near cathode in arc, (E), 25:45465
jet rotation in glow discharge mode of homopolar, (E), 25:27701
jet rotation in homopolar, (E), 22:19996
jet rotation in interelectrode region of arc, (E), 24:32832
jet rotation in plane homopolar, centrifugal effects in, (T), 23:25350
jet rotation in pulsed inductive, 21:40030
jet rotation in pulsed inductive, (E), 23:20904
jet simulation by the particle-in-cell method, 24:49159
jet simulation in coaxial, (T), 23:1425 (LA-3990, pp C6.1-8)
jet spectral study in coaxial, argon, (E), 23:1378 (N-68-25949)
jet stabilization in, using conducting walls, (T), 21:18768
jet steady-state acceleration phase in coaxial electrode, argon, (E), 25:7383
jet structure in coaxial, radial striations, 25:22504
jet temperature in Rod Plasma Injector, spectra measurement of, 25:9426
jet temperature in RPI, spectra measurement of, (E), 23:16777 (INR-P-948)
jet thrust from MPD arc, with self-induced magnetic fields, 25:30503
jet time behavior and spectra in grid-type electrodes, (E/T), 23:32362
jet valves for, properties of fast strip electrodynamic, 21:33410(T) (NP-tr-1536)
jet velocities in arc, Doppler measurement of axial and rotational, (E), 24:30333
jet velocity and magnetic field gradients in MHD, effects on operation of, 22:34646 (N-68-10502)
jet velocity in crossed electric and magnetic fields, inhomogeneity, (T), 24:37473
jet velocity in rail-type, (E), 23:42269
jet velocity relations for rail-type, (E/T), 25:3077
jet vortices in coaxial, diagnostics of, 21:33463
jet vortices in conical coil induction, 21:33465
kinetic theory of, using transverse electric and magnetic fields, 21:46334 (SC-RR-67-703)
kinetics of crossed-field, (T), 21:40000 (DLR-FB-66-74)
kinetics of current sheath in electrodynamic rail-type, 21:15137
kinetics of dense focus discharge, image converter observation of, 21:802
kinetics of Hall-current, at intermediate pressures, 21:13567 (N-66-37298)
laser beam scattering by dense plasma focus in, right-angle, (E), 23:25295
luminous front velocity from DP, measurement of, 21:18749 (INR-716/XVIII/PP)
magnet coil system for Homopolar Gun II, operation of, 21:5272 (UCRL-16997)
magnetic bundles in reacting flowing jets in coaxial, (T), 24:49169
magnetic compression properties in cathode region of, 21:33452
magnetic field distributions in coaxial, 21:29229
magnetic field measurements in DP, 21:16905 (INR-720/XVIII/PP)
magnetohydrodynamic calculations for dense focus, 25:56188
mass distribution of exhaust from coaxial, (E), 24:51637 (AD-706028)
mass instabilities in, negative, 21:6984 (UCRL-14406)
mass transfer processes in electrodynamic, (T), 24:51682
mass transfer processes in electrodynamic, energy relationships for, (T), 23:30578
model for coaxial discharge, snowplow, 22:1186 (LA-3770, Paper C7)
model of coaxial gun with positive central electrode, (T), 23:20954
model of coaxial, with positive central electrode, 23:3500
motion of arc in coaxial cross-field device with logarithmic-spiral cathode, anomalous rotational, 24:17742
neutral gas acceleration in rail-type, by shock waves, (T), 25:59031
neutron and x-ray emission from dense focus, time correlations of, 25:52855
neutron and x-ray emission from dense plasma focus, (E), 23:36727 (SC-RR-69-323)
neutron and x-ray emission from focusing coaxial discharge, 24:47276
neutron emission from coaxial, analysis of, (E), 23:44458 (AD-686103)
neutron emission from dense deuterium focus, distributions of, (E), 23:48937
neutron emission from dense focus, 14-MeV, 25:50597 (CONF-710402-(Vol.2), pp I.39-49)
neutron emission from dense focus, calibration of silver activated counters for measuring, 25:56214 (LGI-70/17/E)
neutron emission from focused, energy distribution of, (E), 24:12844 (AD-695456)
neutron enhancement from dense focus, by electron beam interactions, (E), 25:52857
neutron production by enhanced resistivity in focus, 24:42718
neutron production from deuterium—deuterium reactions in focus, nonthermonuclear, 24:24082
neutron production in dense deuterium focus, model for, 25:17205 (AD-712692)
neutron production in dense focus in deuterium, acceleration mechanism for, (T), 24:51721
neutron production in dense focus, effects of axial magnetic field on, 25:5113 (AD-710606)
neutron production in dense plasma focus, mechanism of, (T), 23:32497
neutron production in focus discharge, with and without axial magnetic fields, (E), 25:27799
neutron production in non-cylindrical z-pinch, 25:5116(T) (SC-T-70-4046)
neutron production mechanism in dense focus, (E), 25:52856
neutron yield from focus discharge, parameters of, (E), 25:14355
nozzle development for high-current, 25:38417
nozzle electrode design for, 22:34690
nozzles for continuous supersonic plasma wind tunnel, (E), 23:23189
operation and properties of pulsed-discharge, 21:3878
operation of coaxial, gas conditions in, 22:44130
operation of coaxial, in longitudinal magnetic field, 21:3877
operation of conical electrode, 22:5354
operation of DP, analysis using rapid photography, 21:16914 (INR-715/XVIII/PP)
operation of DP, kinetics of, 21:16904 (INR-719/XVIII/PP)
operation of electron-scattering, for production of high-energy particles, relativistic aspects of, 23:15315
operation of hf, at electron cyclotron resonance, (T), 23:18647 (CONF-680113-(Vol.2), pp 643-69)
operation of hf, relativistic effects on, 21:31429
operation of hf, with static magnetic field gradient, 22:17697
operation of Icare machine, (E), 23:18626 (CONF-680113-(Vol.2), pp 743-68)
operation of rail-type, in dense gases, 22:13459
operation of traveling-wave, (E), 23:18624 (CONF-680113-(Vol.2), pp 701-25)
operation of, effects of layout of power supply leads on, 21:13591
operational principles of electromagnetic, 21:25136
oscillations in magnetoplasmadynamic, (E), 22:43966
particle dynamics in, computer analysis of, 24:20743 (CEA-CONF-1451)
performance and diagnostics of water-cooled MPD arc thruster, 24:51642 (N-70-27939)
performance and properties of coaxial, (E), 22:17610 (INR-P-850/XVIII/PP)
performance and properties of, tables for, 21:15136
performance characteristics, (T), 22:9140
performance for propulsion uses, 21:5263(R) (AD-637494)
performance for space flight propulsion, 25:47514 (LA-DC-12520)
performance of 25-kW hollow cathode lithium arc, (E), 23:30538 (LA-DC-9850)
performance of arcjet, thrust, 21:13575
performance of arcjet, with thermal and self-magnetic forces, (E/T), 21:16922
performance of cesium MHD coaxial, 21:42049 (LA-3735)
performance of coaxial, 22:31812
performance of coaxial discharge, 25:17216
performance of coaxial gun with pinched gas column as central electrode, (E), 23:1485
performance of coaxial gun, for propulsion, 21:2226(R) (N-66-22244)
performance of coaxial tandem systems, (T), 25:36204
performance of coaxial, (E), 25:17215
performance of coaxial, (E/T), 21:3838 (N-66-29214)
performance of coaxial, calculation of effect of viscous drag on, 21:27197 (N-67-15960)
performance of coaxial, magnetic measurements for, 21:18679
performance of coaxial, spectral analysis of, 22:36913 (N-68-17070)
performance of conical z-pinch, 21:27180

performance of constricted induction, effect of electromagnetic forces on, 24:37493
performance of crossed-field, for wind tunnel research, (E), 24:12812
performance of dense focus, using disk symmetry, 25:5120
performance of electron cyclotron resonance, (E), 25:45464 (MATT-836)
performance of electrothermally accelerated hydrogen-arc, thermal and thrust, 21:42123(R) (AD-645119)
performance of end-type pulsed, effect of pinching on, (E), 25:22501
performance of Faraday-type and traveling-wave, (T), 23:20949
performance of flow-type coaxial, for fusion reactors, 25:25152
performance of Hall, calculational model for, (T), 23:42350
performance of hf, with magnetic field gradients, (E/T), 23:18613 (CONF-680113-(Vol.2), pp 671-5)
performance of high-current Hall, for fusion research, 25:3141
performance of high-current two lens, (E), 25:36115
performance of high-frequency, with laser preionizer, 22:9310
performance of Homopolar gun II, 21:46335 (UCRL-50002-67, pp 127-46)
performance of hydrogen E x B, properties of, 21:18685
performance of induction, for propulsion, 25:43351
performance of linear-electrode, (E), 23:32495
performance of MHD traveling-wave cylindrical, (T), 23:34304
performance of microwave-driven cyclotron resonance, 21:29222(R) (NASA-CR-72227)
performance of microwave-driven magnetic, thrust, (E), 21:3840(R) (NP-16380)
performance of microwave-powered, 21:13561 (AGARD-CP-8(Vol.2), pp 679-98)
performance of MPD arc thruster with downstream cathode, 25:36162
performance of MPD thrustor for space applications, 22:36909 (N-68-16396)
performance of Pleiade-type, for neutral particle production, 25:11920 (EUR-CEA-FC-567)
performance of pulsed coaxial, jet kinetics in, (e), 25:43358
performance of pulsed electromagnetic, with dielectric erosion, 24:49201
performance of pulsed induction, energy transfer efficiency of, (E), 24:37494
performance of pulsed two-stage coaxial, (E), 24:49202
performance of race-track type, 24:19915
performance of rail-type, 21:29253
performance of rail-type, current-carrying layer effects on, 21:23200
performance of rail-type, with external magnetic fields, 25:11882
performance of rf, coupling efficiency, 21:27172
performance of rod plasma injector, 24:28340
performance of steady-state, using radioisotope heat sources, 22:31862
performance of theta-pinch, (E), 24:15301
performance of titanium rail-type, (E), 25:19726
performance of traveling-wave, for high-velocity simulation device, 25:47513 (AD-717705)
performance of traveling-wave, for wind tunnel uses, (E), 24:35412
performance of uninterrupted Hall-current, 21:29254
performance of, loss effects on, 22:34635(R) (AD-665142)
performance using curved nozzles, 22:11460
performance using harmonics of electron cyclotron frequency, (E), 23:18628 (CONF-680113-(Vol.2), pp 775-807)
performance using self-consistent field and electron cyclotron resonance, 22:52772 (CONF-671127, pp 261-6)
pinch effect in dense focus, magnetohydrodynamic theory of, 24:37445
pinch effect in deuterium and deuterium—tritium, neutron emission in, 22:1279 (LA-3770, Paper C2)
pinch effect in, formation and breakup of plasma focus, 22:1185 (LA-3770, Paper C5)
pinch focusing of, neutron and x-ray production in, 22:1281 (LA-3770, Paper C6)
plasma equilibrium configuration in, uniformly accelerated, 21:29276
plasma from beyond nozzle of erosion-type pulsed electromagnetic, space and time characteristics of, (E), 25:33237
plasma instabilities in, with external magnetic fields, 21:44127(R) (NP-16948)
plasma kinetics in injection system, 21:2231(T) (UCRL-Trans-10065)
plasma pressure measurement in MHD, design of gages for, 21:34536
plasma production in coaxial, impulsive, 23:7023
plasma properties in coaxial, hydrogen, (E), 22:29500
plasma velocity and temperature in coaxial, monochromator measurements of, 21:29201 (INR-781/XVIII/PP)
plasma velocity limitations in, 21:33416
plasmoid acceleration in induction, effect of interruption time on, (T), 25:49887
plasmoid acceleration in inductive conical, effect of stationary magnetic field on, (T), 25:36113
plasmoid acceleration in injectors with inductive energy storage, (E), 25:49890
plasmoid discontinuities in pulsed erosion, (E), 25:47555
plasmoid instabilities in, ion—cyclotron, (T), 22:34720
plasmoid mass and velocity spread in pulsed, (E/T), 25:36114
plasmoid production and structure in coaxial, 21:7276(T) (UCRL-Trans-10066)
plasmoid properties in electrodeless, (E), 24:47222 (NP-18422)
plasmoid velocity limitations in electrodynamic, 24:37498
plasmoid velocity measurement from coaxial, double probe, (E), 25:22507
potential flow in, (T), 21:41874(R) (AD-645632)
power supplies for coaxial, design of, 24:24054 (LA-4250, pp DI.9.1-4)
power supplies for dense focus, development of, 24:24063 (LA-4250, pp E4.1-5)
power supplies for dense focus, explosive generators for, 25:40692
power supplies for focus device, impedance matching for, 24:24064 (LA-4250, pp E5.1-2)
power supplies for high-voltage, design of, 22:24249(T) (AD-666140)
power supplies for, impulse capacitor design for, 21:16218 (INR-710/XVIII/P)
production processes in coaxial, (E), 21:3884
properties of argon, electron density in, 25:14335
properties of coaxial, electrodynamic, (E/T), 24:12800
properties of coaxial, for DECA II device, 22:50126(R) (EUR-CEA-FC-352)
properties of conical electrode, (T), 22:39120
properties of conical induction, (E/T), 24:35481
properties of conical z-pinch, (E), 25:17159
properties of crossed-field, 21:3875
properties of dense focus, (E/T), 25:38498 (CONF-710607-41)
properties of dense plasma focus discharge, 22:19992
properties of electrodynamic, effects of mass transfer on integral characteristics of, 24:17925
properties of electron bombardment ion engine, 22:46138 (N-68-23335)
properties of Hall current, 21:5264 (AD-637581)
properties of low-density Hall, (E/T), 24:30362
properties of MHD, for hypervelocity test facilities, 21:29232
properties of MHD, resonance, 21:31441
properties of MW arc thruster, current—voltage, 25:14271
properties of Penning ionization gage, 21:44051 (AD-651803)
properties of pulsed electromagnetic, (E), 23:30577(R) (N-69-20350)
properties of rf traveling-wave, gas, 22:31858
properties of toroidal glow discharge, in radial magnetic fields, (E/T), 25:59002
radiation energy loss in electrodeless, spectroscopic measurements of, 21:23164 (NP-16694)
radiation losses from dense focus, impurity effects on, (T), 25:38357 (CONF-710607-77)
radiation losses in pulsed, spectral distribution of, (E), 24:17907
radiative losses in pulsed, bolometric method for measuring, 25:3084
relaxation effects in crossed-field, (E), 24:1405
research on MPD thrustors, 22:36908 (N-68-16067)
shock production in coaxial, properties of, 22:1191 (LA-3770, Paper E8)
shock wave production and properties in coaxial dense focus, 25:14270
simulation by computer, 24:32856
snowplowing in rail-type gun, (T), 25:9479
sources for, design and performance of rf, 22:34640 (AD-665895)
spectra of highly ionized argon and neon in dense focus, (E), 23:36677
spokes in coaxial and parallel-plate, properties of, 22:1189 (LA-3770, Paper E3)
stability analysis of linear Hall current, 21:42131
stability in plasma betatron, negative mass, (E), 22:20033
stability of linear Hall, screw, 21:27220
stability of linear Hall, with axial electric and magnetic fields, (T), 21:11626 (NASA-CR-676)
structure of dense focus, (E/T), 25:38494 (CONF-710607-36)
structure of dense focus, neutron measurements from, (E), 25:38495 (CONF-710607-37)
theory of electrodynamic, with inductive energy storage, 22:39119
theory of MGD, for propulsion, 21:660 (AD-634253)
theory of plasma focus, magnetohydrodynamic, 24:49163
theory, one-dimensional MHD equations in, 21:9399
thermal losses in coaxial pulsed, 22:44172
time-of-flight analysis of, self-consistent, 21:27192
use as high-intensity neutron sources, 21:44515 (CONF-660925, pp 623-34)
use as highly-stripped heavy ion source, 22:18065
use as neutron source, 21:35166 (LA-DC-8124)
use of coaxial electromagnetic, to produce plane blast waves, 24:17950
use of coaxial, for identification of atomic spectra, 24:23752
use of dense focus, for fusion blanket studies, 25:30592 (EUR-4593, pp 525-31)
use of electron cyclotron resonance, for space vehicle propulsion, 22:13301
use with fast z-pinch, for dense plasma production, 22:1250 (LA-3770, Paper C1)
valves for magnetostrictive rod, fast, 23:25164
velocity measurements in coaxial Hall, 21:16920
velocity measurements in homopolar, atom and ion, 22:7314
vortices and their magnetic fields inside a conical theta-pinch, 22:31837
wave interactions with particles in hf structures, analog calculation of, 24:37526
wave—particle interactions in, energy exchange in, (T), 23:20912 (CEA-CONF-1128)
x-ray and neutron emission from focusing coaxial discharge, 24:47276
x-ray emission from focused, energy distribution of, (E), 24:12844 (AD-695456)
x-ray spectra from dense plasma focus, (E), 24:49196
x-ray spectra from focus, hard, 25:33250

Plasma Diodes
  see Thermionic Converters
PLASMA JETS
  acceleration by electromagnetic fields, (T), 24:6542
  acceleration by Hall effect in, 21:2082
  acceleration by traveling electromagnetic fields, diagnostics of, (E), 25:19669 (NP-18715)
  acceleration in conical induction source, properties of, (E/T), 24:35481
  acceleration of nonuniformly magnetized, ion cyclotron resonance, (E), 23:18636
  acceleration phase in coaxial electrode guns, argon, (E), 25:7383
  acceleration to thermonuclear velocities, methods for, (E), 22:17625
  angular distribution from coaxial electrodynamic accelerators, (E), 22:29525
  book: Studies of Plasma Clusters, 21:37407
  book: Studies of Plasma Clusters, 23:46448
  boundary conditions for adjacent cold, in magnetic fields, (T), 25:36128 (UARAEE-78)
  boundary layers in argon, along cooled metal walls, (T), 24:35424
  boundary model for, charge separation effects in, (T), 24:3362
  boundary-layer structure in shock-produced argon, (E), 23:12774
  boundary-layer structure of shock-produced argon, ionization in, (T), 23:12839
  charged-particle motion in stationary one-dimensional, (T), 25:33281
  collisions in, properties of particle, 21:9590
  compression of vortex, magnetic field, (T), 21:5290
  compression of, self-, (E), 22:39095
  conductivity and velocity of dense, from annular induction machines, (E), 23:18625 (CONF-680113-(Vol.2), pp 727-41)
  conductivity enhancement of supersonic argon, in electric discharges, (E), 25:9451
  conductivity in magnetic fields, perturbations of electric, 24:49173
  conductivity measurements in seeded and unseeded, 21:13416 (AD-639754)
  conductivity of axially symmetric, contour effects on electric, (T), 23:51654
  conductivity of impure, with electrothermal instabilities, (T), 24:30347
  conductivity of nitrogen, solid-particle admixture effects on, 21:20957
  conductivity of progressive wave-induced, electric, (E/T), 21:7219
  conductivity of seeded-nitrogen, in MHD accelerators, 23:1405 (AD-671528)
  confinement and ion energy in dense plasma focus, 25:38496 (CONF-710607-38)
  confinement by strong microwave field, 21:23156
  control of, magnetic gate for cutting off, 21:29270
  cooling of magneto-, upon injection in vacuums, 21:3855
  current and potential distributions in MPD, (T), 22:9182
  current densities in homopolar accelerators, 21:44079
  current density distribution in MHD channel flow, 24:51478 (N-70-24446)
  current density in exhaust of MPD arcjet, 21:16919
  current density in MHD, Hall effects on, (T), 21:9572
  current flow in cesium, turbulent resistivity, diffusion, and heating in, (E/T), 25:38344 (CONF-710607-52)
  current layers in coaxial gun-produced, measurement of, 21:44083
  current patterns in nonequilibrium, blowing of, 21:42094
  current sheets and gas flow stabilization in pulsed accelerators, (E), 24:30332
  current sheets in coaxial accelerators, calculation of, 24:30346
  currents and thermoelectric effects in nonuniform, magnetically-induced, (E/T), 23:27616 (AD-677463)
  currents in decaying, diagnostics of, 21:20956
  currents in nonuniform, magnetically-induced, (E/T), 23:46461
  cutoff of, performance of electrostatic gate for, 21:18705
  density measurements in, using electron probe techniques, 21:18644
  design of induction-coupled, for studying powder spheroidization processes or reactor fuel elements, 21:13142 (INR-738/XVIII/PP)
  development and application of fusion-torch, 24:3406 (WASH-1132)
  diagnostic methods for, comparison of Langmuir-probe and microwave, 22:1165
  diagnostic of supersonic argon, electron density, 24:45235
  diagnostics from coaxial accelerators, (E/T), 24:8437(R) (N-69-38697)
  diagnostics from coaxial accelerators, density profile, 22:34585 (AD-660588)
  diagnostics from coaxial guns, fast neutral, (E), 23:23097
  diagnostics from coaxial guns, Schlieren method, (E), 25:25095
  diagnostics from electron-bombardment ion thruster, (E), 23:16778 (N-68-32072)
  diagnostics from pulsed coaxial accelerators, density and temperature, 22:52756
  diagnostics from rod injectors, monochromator measurements of ion velocity, 22:34590 (INR-P-883/XVIII/PP)
  diagnostics in accelerators, using induction volometry, (E), 23:25313 (AD-674615)
  diagnostics in arcs, turbulent, (E), 23:18599 (AD-674614)
  diagnostics in boundary layers, electron density and temperature, (E), 25:52785
  diagnostics in coaxial accelerators, conductivity and temperature, 22:31796
  diagnostics in coaxial accelerators, current sheet velocity, (E), 23:16780(R) (N-68-34518)
  diagnostics in coaxial accelerators, helium electron temperature and density, 21:39996

diagnostics in coaxial accelerators, impurity, (E), 23:8591
diagnostics in coaxial accelerators, monochromator measurements of velocity and temperature, 21:29201 (INR-781/XVIII/PP)
diagnostics in coaxial accelerators, probe measurements of electron temperature, 22:17631 (INR-P-851/XVIII/PP)
diagnostics in coaxial guns, plasmoid velocity, (E), 25:22507
diagnostics in coaxial snowplow discharges, (E/T), 23:14739(R) (LA-4075)
diagnostics in dense focus discharge, using charged particles from d,d reactions in, (E), 25:30475(T) (LA-tr-71-6)
diagnostics in dense noncylindrical z pinch, neutron and x-ray production in, (E), 25:14359
diagnostics in disc dense focus device, 25:33239
diagnostics in electric arcs, electron and ion temperature, (E/T), 22:9298
diagnostics in enclosed machines, fiber optics observation system for, 24:19876
diagnostics in focus device, fine structure measurement using x-ray pinhole cameras, 25:9412(T) (LA-tr-70-25)
diagnostics in longitudinal magnetic fields, (E), 22:19945 (CLM-R-72)
diagnostics in magnetic fields, mass analyzer for, 24:28236 (CLM-R-102)
diagnostics in magnetic guide fields, ion, (E), 25:1191 (AD-707346)
diagnostics in magnetohydrodynamic accelerators, (E), 25:36096
diagnostics in parallel-plate rail-type guns, current sheet tilt in, 25:25106
diagnostics in rod plasma injectors using monochromators, 24:28240
diagnostics in RPI, spectra measurement of temperature, 25:9426
diagnostics in T-type shock tubes, laser, (E), 23:27610(R) (N-69-15312)
diagnostics in transition and free-molecular regimes, performance of thin-wire Langmuir probes for, 24:35401
diagnostics in wind tunnels, neutral particle flux, (E), 24:3335
diagnostics in wind tunnels, sheath, 22:11416
diagnostics of air—propane, using Langmuir probes, 24:47205
diagnostics of arc, spectroscopic, 25:45457
diagnostics of argon and neon, interferometric determination of temperature, (E), 25:58984
diagnostics of argon and neon, spectroscopic, 25:58991
diagnostics of argon and nitrogen, by microwave interferometry, 22:34612
diagnostics of argon and nitrogen, spectroscopic, 21:11603 (ARL-65-92)
diagnostics of argon discharge, using continuum probes, 22:34593 (TID-24491, pp 99-109)
diagnostics of argon, by optical pyrometers, 24:21764
diagnostics of argon, calorimetric and spectrometric measurement of temperature, (E), 23:14771
diagnostics of argon, comparison of probe and spectroscopic, 25:33226
diagnostics of argon, density and temperature, 21:5286
diagnostics of argon, effect of magnetic fields on probe, (E), 24:3310
diagnostics of argon, electron and ion temperature, 22:34598
diagnostics of argon, excitation temperature, (E/T), 24:6526
diagnostics of argon, microcalorimeter for, 21:31412
diagnostics of argon, review of methods for, 24:6518
diagnostics of argon, spectroscopic, 23:8592
diagnostics of argon, techniques for temperature, 22:3033
diagnostics of argon, temperature distribution, 22:17635
diagnostics of argon, use of laser interferometers for electron density, 22:5314
diagnostics of argon, using impurity tracing, (E), 24:21806
diagnostics of argon, using Langmuir probes, (E), 24:26157
diagnostics of argon, using Mach—Zehnder interferometers, (E), 23:23082 (IPP-3/80)
diagnostics of argon, using Thomson and Rayleigh scattering of laser beams, 25:5078 (CEA-R-3998)
diagnostics of argon, using Thomson scattering, 22:24271
diagnostics of argon, velocity profiles and nonequilibrium temperature from spectra, 22:7272
diagnostics of argon—hydrogen, radial temperature distribution, (E), 22:17633
diagnostics of argon—nitrogen, spectroscopic, (E), 23:34395
diagnostics of argon—potassium, using electric currents, 22:34608
diagnostics of cesium MHD arc, (E), 22:36948
diagnostics of coaxial snowplow discharge, (E/T), 23:44395
diagnostics of collisionless shock-produced, 22:9294
diagnostics of collisionless, Langmuir probe use for, (E/T), 22:11426
diagnostics of dense argon, using electrostatic probes, 22:1152(R) (AD-646891)
diagnostics of dense focus, by Thomson scattering and neutron anisotropy, 25:38399 (CONF-710607-39)
diagnostics of dense high-temperature argon, using laser interferometers, 22:29471
diagnostics of field-free, using medium-dispersion optical spectrographic and source-monitoring equipment, (E), 24:5158
diagnostics of flame, electrostatic probes for electric properties, (E), 25:22484
diagnostics of free nitrogen, spectroscopic, 25:3070
diagnostics of helium, spectra measurement of temperature distribution, 25:14254
diagnostics of heterogeneous low-temperature, by asymmetric self-reversed spectral lines, 22:52755
diagnostics of hf argon, optical and calorimetric methods for temperature, 21:44037
diagnostics of hf induction argon, temperature distribution, (E), 25:22486
diagnostics of hydrogen, using rapid scan spectrometer, (E), 23:39453
diagnostics of hydrogen—helium, using rigid rotation model, (E/T), 25:1187 (AD-707347)
diagnostics of induction-coupled, in air and argon, spectral, (E), 22:22127
diagnostics of induction-heated supersonic argon, using double Langmuir probe, 25:14243 (AD-711127)
diagnostics of inductive argon, radial temperature distribution, 22:34591 (RT/FI-(68)12)
diagnostics of ion-thruster, electron and ion density, 21:7190 (NASA-TN-D-3761)
diagnostics of laminar nitrogen, temperature determination from electric conductivity measurements, 22:36896
diagnostics of laser-produced, Langmuir probe and microwave, (E), 25:43342
diagnostics of laser-produced, using Langmuir probes, (E/T), 25:45487(R) (ORO-3819-3)
diagnostics of low dispersion, spectroscopic, (E), 23:27615
diagnostics of low-density, ion velocity distribution, 22:46128
diagnostics of low-pressure argon, in longitudinal magnetic field, (E), 23:39450
diagnostics of magnetic annular arc-produced, 21:7210(R) (N-66-27315)
diagnostics of magnetized, using floating double electric probes, (E), 25:19659
diagnostics of microwave-driven magnetic, (E), 21:3840(R) (NP-16380)
diagnostics of neutrals in argon, temperature, (E), 24:35391
diagnostics of potassium-seeded air and nitrogen, spectroscopic, (E), 23:34381 (AD-679530)
diagnostics of powder-seeded argon, spectroscopic, 24:42656 (INR-1173)
diagnostics of pulse, spectroscopic, 22:31799
diagnostics of pulse, spectroscopic methods for charged-particle density, 25:9416
diagnostics of pulsed, positive ion detectors for, 24:51620 (SC-RR-70-583)
diagnostics of reflected, on metallic surfaces, 21:3826
diagnostics of rings of, in axial guiding fields, 21:27137
diagnostics of seeded-argon, electron density and temperature in boundary layer, 25:14244 (AD-711669)
diagnostics of sheath around flat plate, ion-density proble for, (T), 22:24265
diagnostics of subatmospheric argon, temperature, 21:27138
diagnostics of supersonic argon, electron temperature and density, 21:33376
diagnostics of supersonic argon, temperature and density, 22:5319
diagnostics of supersonic, ion probes for, 24:35399
diagnostics of supersonic, using gasdynamic probes, 21:25115 (NP-16718)
diagnostics of thermal induction, rf magnetic field distribution, (E), 25:40599
diagnostics of thermal, induction, rf magnetic field distribution, (E), 25:43338 (AD-715265)
diagnostics of three-component, in dipole magnetic fields, 25:9414
diagnostics of turbulent, correlation between ion and electron probe currents in, 25:38406
diagnostics of turbulent, method for, 22:39040 (N-68-11059)
diagnostics of turbulent, probe correlation functions for neutral-dominated, (E/T), 24:1382
diagnostics of vortex-flow argon and helium, rf, (E), 24:19880 (ORNL-TM-2856)
diagnostics of weakly ionized argon, temperature profile, (E), 24:51631
diagnostics of, asymmetrical probe methods for, 22:22141
diagnostics of, beyond nozzle of pulsed electromagnetic accelerator, space and time, (E), 25:33237
diagnostics of, classical Langmuir probe theory for, 21:25113(R) (N-67-11698)
diagnostics of, design of scanning analyzer for, 24:45230(P)
diagnostics of, effects on use for propulsion, (E/T), 23:27614
diagnostics of, laser phasography for, 21:18654
diagnostics of, laser scattering measurements of electron density profiles, 22:29468
diagnostics of, method analysis for, 23:34388 (AD-684574)
diagnostics of, method and apparatus for spectral analysis, 25:1185(P)
diagnostics of, pressure gage for, 21:31399 (SSD-TR-67-88)
diagnostics of, probe for velocity measurements, 22:36888 (N-68-16527)
diagnostics of, spectroscopic, 21:16902 (INR-717/XVIII/PP)
diagnostics of, spectroscopic, 21:16904 (INR-719/XVIII/PP)
diagnostics of, techniques for local thermodynamic properties, 22:48090
diagnostics of, temperature pulsations in, (E), 23:20893
diagnostics of, theory of cylindrical probe for, 25:27681
diagnostics of, ultrahigh-frequency, (E), 21:20927
diagnostics of, use of double electrostatic probes for, 22:13446
diagnostics of, using electrostatic probes, (T), 24:1387
diagnostics of, using Faraday-cup ion and double Langmuir probes, 22:1159 (LA-3770, Paper E9)
diagnostics of, using Lecher wires and microwaves, (E), 25:38401 (ORO-3819-5)
diagnostics using 90° laser scattering, ion temperature, 23:51599 (CEA-CONF-1374)
diagnostics using aligned cylindrical Langmuir probes, length and collisional effects on, (E), 25:22489
diagnostics using blunt-body electrostatic probes, (T), 24:51618 (SC-RR-70-331)
diagnostics using differential energy analyzer, electron temperature, 24:15277 (NP-18115)
diagnostics using double probes, ion temperature, (E), 23:34394(P)
diagnostics using electrodes, properties of, (E), 24:1390
diagnostics using fast particle beams, 21:3825
diagnostics using fast photography and spectral techniques, 21:37418(R) (N-67-19949)
diagnostics using full thrust tubes, 24:21766
diagnostics using gas lasers and interferometers, in coaxial accelerators, 25:11871
diagnostics using high-speed photography, plasma component velocity, 21:29212
diagnostics using immersed microwave probes, (E), 25:30476 (N-71-10964)
diagnostics using induced potential in argon arc, velocity, (E/T), 23:18597 (AD-671493)
diagnostics using induction methods, (T), 21:18653
diagnostics using Langmuir probes, electron temperature, 21:5246 (SC-DC-66-2267)
diagnostics using laser interferometers, 21:9546
diagnostics using lasers, electron density and temperature, (E/T), 25:58987
diagnostics using microwave Fabry—Perot interferometers and Stark effect, electron density, (E), 24:1385
diagnostics using microwave interferometry, electron density, 23:5382
diagnostics using microwave resonators, 21:29213
diagnostics using microwave techniques, 22:52748
diagnostics using microwaves, electron density, 24:32816
diagnostics using optical methods, ion velocity, 25:58978 (CEA-CONF-1829)
diagnostics using pilot tube—electric probe combination, 22:9286
diagnostics using plane probes, ion density, (E/T), 25:14250
diagnostics using probes, electric properties, (E/T), 24:3313
diagnostics using short-exposure probes, temperature, (E), 23:39448
diagnostics using spectroscopic methods, 22:15516
diagnostics using spectroscopic techniques, temperature, 24:21765
diagnostics using spherical probes, ion current to probe calculations for, 24:42661
diagnostics using spherical probes, ion flow, 25:30482
diagnostics using three-coil probe, velocity and conductivity, (T), 25:49875(R) (N-70-41180)
diagnostics using two perpendicular Langmuir probes, velocity, 24:17893
dielectric constant measurements in magnetic fields, 21:31459
dielectric permeability of relativistic inhomogeneous, (T), 25:5101
diffusion accumulation of steady-state, (T), 23:51663
diffusion in longitudinal magnetic fields, (E/T), 21:3836 (N-66-28485)
diffusion of argon and helium, in free air, (E), 22:22155
diffusion of helium afterglow, impurity effects on, 21:11600
divergence in vacuum, effects on, 21:29269
effects on dielectric bodies in, distribution of floating potential in, (T), 24:12816 (AD-695484)
effects on graphite and graphite composites, ablative, 22:52230
effects on magnesium alloys, feasibility of techniques for studying disintegration, 21:11216 (MND-3607-114)
effects on reentry thermionic generator materials, 24:12671 (SC-DC-64-442)
effects on skin, 21:41482
electric discharge between cold electrodes in supersonic, physical picture of, 22:43971
electric discharge interactions with self-induced magnetic fields in, 21:37442 (ARL-67-0007)
electric discharges in MHD channels, structure and stability of, (E), 23:12617
electric discharges in, ionization processes in, (T), 25:47549
electric discharges in, self-sustaining, (E), 24:1399
electric field effects on electron acceleration in, nonadiabatic theory for, 21:18734
electric field enhancement by element addition in, (E), 23:12804
electron cooling in diffusive flows of weakly ionized, 24:49128
electron density of, effect of chemical additives on, 21:11601(R) (AFCRL-66-5)
electron fluctuations in turbulent weakly ionized argon, 24:17913
electron kinetics in weakly ionized argon, (E), 23:42267
electron—ion recombination in, effects on electrodynamic acceleration, (T), 25:36109
electrothermal waves in crossed fields, large amplitude, 21:42054
energy levels in argon—hydrogen, population inversion in, 23:10656
energy measurement in coaxial accelerators, (E), 23:14770
enthalpy and pressure measurements in, at 4000 to 15,000°K, probes for, 22:39044(T) (SC-T-68-1524)
equilibrium configuration in uniformly accelerated, 21:29276
equilibrium of argon, spectra measurements of, 24:45241
excitation temperature of ultrasonic rarefied, 22:20003
excited states in argon, equations for rate coefficients of, 22:48127
exhaust velocity of electric arc, use of electromagnetic forces to increase, (E), 21:46210(T) (LA-tr-67-33)
expansion in electric arcs, (E), 24:47226

expansion of supersonic, recombination rates in, 24:51653 (AD-708126)
flow around charged bodies, (T), 21:25134(T) (AD-646276)
flow around charged bodies, kinetic theory of, 22:31826
flow around conducting body, electrodynamic wake from, 21:29285
flow around conducting sphere in magnetic field, (T), 21:29284
flow around cylindrical bodies, electron density in, (T), 24:15316
flow around magnetized bodies, (T), 21:35184
flow around plates, one-dimensional solutions for, (E/T), 25:14265
flow equations for aligned velocities and magnetic fields from rectangular channels, 21:659 (AD-633027)
flow from hot-cathode Penning discharge, into vacuum, (E), 24:1400
flow in azimuthal magnetic fields, contraction in, (T), 22:29515
flow kinetics in homopolar devices, (E/T), 25:36205
flow of anisotropic, well-posedness criteria for unsteady, (T), 24:35428
flow of argon in cusp- and mirror-type fields, properties of, 21:20973
flow of collisionless, effect of dissipation from firehose instability on perturbation half-jet, (T), 25:19676
flow of finite conductivity, in presence of Hall effect, (T), 21:35186
flow of MHD, in finite space, 21:37269
flow of rarefied, around two-dimensional bodies, supersonic, (T), 25:17138
flow of two-species, in cylindrical traveling-wave accelerators, 24:17909
flow of, computer program for calculating one-dimensional two-temperature, 23:34401 (UCRL-50583)
flow over biased bodies, multifluid theory for stagnation, 21:40002 (SC-RR-67-289)
flow over oscillating boundary in magnetic field, 21:35185
flow parameters of argon, under Laplacian forces, (T), 24:45256
flow past blunt bodies, multifluid theory for stagnation, 23:12826
flow past charged bodies, (T), 21:5127
flow past cylindrical object, computation of Coulombian drag of collisionless, (T), 24:45249
flow past obstacles, transonic, (T), 25:56176
flow past spheres, potential distribution around, (T), 22:11462
flow rates in pulsed accelerators, aluminum and copper, (E), 25:22519
flow rotation in MPD arc, actuator-disk model for azimuthally nonuniform, (T), 24:15187
flow through nozzle of recombining nitrogen, nonequilibrium excitation in, (T), 25:22533
focusing in discharges, macroscopic equations for, 24:51656 (CEA-N-1371)
focusing near inner electrode of coaxial gun, striograms of, 23:23120
focusing of xenon, properties of, 21:15178
generator for, heat transfer in, 21:43185
growth of turbulent mercury, in coaxial magnetic field, 21:33243
Hall currents in axial-symmetric, structure of, 24:40089
heat transfer from nitrogen, to walls or immersed bodies, 23:6999
heat transfer from nitrogen, to walls or immersed bodies, 23:7000
heat transfer from, to cylinder walls, (E/T), 22:11456
heat transfer in circular tube, argon, helium, and nitrogen, 22:7280
heat transfer of argon, with coaxial flow of cold helium, 21:18497(R) (N-66-37643)
heating of argon, by rf fields, (E/T), 22:13434
hydrodynamics of discharge-tube, 21:788
implosive behavior of magnetically driven, 21:18744
impurities in conical theta-pinch hydrogen, 24:19883
impurities in induction-produced, analysis of, 22:20011
impurities in laminar argon, emission spectra of, 21:46343
impurity removal by injection across octupole magnetic fields, (E), 23:51633
injection along double-bend magnetic field, depolarizing currents in, 22:1190 (LA-3770, Paper E4)
injection flow over concave wall, magnetohydrodynamic stability analysis of, 21:9370 (ORNL-P-2740)
injection into curvilinear magnetic fields, instabilities in, 24:40117
injection into uhf fields, anomalous decay of collisionless, (E), 24:28264
injection into vacuum chambers, properties of, 22:22171
injection of high-β, into longitudinal magnetic fields, rotation in, (E), 24:10527
interactions with axially symmetric magnetic fields, diagnostics of, (E), 21:5284
interactions at high Alfven Mach numbers, momentum transfer in, (E), 25:47526
interactions in homogeneous magnetic fields, properties of, 21:9559 (CEA-R-3000)
interactions in magnetic fields, confinement properties from, 21:18630
interactions in weak magnetic fields, momentum transfer at high Alfven Mach numbers, (E), 25:45462 (AD-720335)
interactions of collisionless, with unmagnetized and magnetized objects, (E), 24:17914
interactions of pulsed argon, with transverse magnetic fields, 22:52790
interactions of rarefied, electrostatic oscillations from, (T), 25:3089
interactions of two separated homogeneous, instabilities in, (T), 24:24015
interactions of, energy distribution in, (E), 25:25111
interactions of, kinetics of, 21:11639
interactions of, ordinary mode electromagnetic instability in, (T), 25:59065
interactions of, potential fluctuations in, (E), 23:51623 (CLM-R-99)
interactions of, properties of opposing polarization electric fields in, (E), 23:16793 (LA-3994)
interactions of, thermalization in, (E), 22:52820
interactions with axially symmetric magnetic fields, (E/T), 25:52793 (KHFTI-70-50)
interactions with axisymmetric magnetic cusp field, 22:36920
interactions with charged body, model for, (T), 21:29283
interactions with cooled bluff body, (E/T), 22:39134
interactions with dipole magnetic fields, boundary of, (E), 22:36934
interactions with dipole magnetic fields, spectra of, 21:13428 (N-66-32764)
interactions with dipole magnetic fields, standing bow shock from, (E), 23:48897
interactions with electric and magnetic fields, compressible free, (T), 21:27053
interactions with electromagnetic fields, theory for, 21:9567 (UTIAS-122)
interactions with electromagnetic fields, with finite tensor conductivity, 22:39082
interactions with grid pairs, kinetic theory for, 23:42295
interactions with large magnetic fields, relaxation effects behind shock fronts in, 24:42671
interactions with large transverse magnetic fields, shock production in, (E), 24:40072
interactions with longitudinal magnetic fields, rotational effects in, (E), 24:10527
interactions with magnetic field, density drop following, (E), 23:48892
interactions with magnetic fields, (E/T), 23:42254
interactions with magnetic fields, cesium, (E), 23:44464 (AD-688885)
interactions with magnetic fields, nonequilibrium ionization in, (T), 24:51652
interactions with magnetic fields, properties in, (E), 23:25314(R) (AD-678093)
interactions with magnetic fields, properties of, 21:35182
interactions with magnetic fields, properties of, (E), 22:5364
interactions with magnetic fields, rotation and instability in, (E), 24:10530
interactions with magnetic fields, shock wave reflection in, 21:9605
interactions with magnetic nozzles, ion and electron kinetics in, (E), 24:42677
interactions with magnetostatic field gradients, (E), 23:25315(R) (AD-678094)
interactions with metals, destruction in, 22:44124
interactions with microwave fields, deformation in, (E), 23:14782
interactions with neutral gases in magnetic fields, electron energy distribution in, (E/T), 24:47218 (NP-18414)
interactions with neutral gases, kinetics of collisionless, (E), 24:42676
interactions with oblique magnetic fields, (T), 24:10534(T) (AEC-tr-7113)
interactions with oblique magnetic fields, diffusion in, 23:8599 (NP-17664)
interactions with plasma, Cherenkov and cyclotron instabilities from, 21:20990
interactions with solid objects at mesothermal speeds, (T), 23:51673
interactions with stationary plasma in quasi-stationary discharges, (E), 23:44414
interactions with transverse magnetic field, longitudinal polarization in, (E), 23:51635
interactions with transverse magnetic fields, 21:11635(T) (NP-tr-1474)
interactions with transverse magnetic fields, annihilation from, 22:1236
interactions with transverse magnetic fields, cutoff in, 23:10657
interactions with transverse magnetic fields, cutoff in, (E), 23:14777(T) (AEC-tr-7015)
interactions with transverse magnetic fields, induced voltage from, (T), 24:40077(T) (AD-705162)
interactions with transverse magnetic fields, properties of, (E), 21:18711
interactions with transverse magnetic fields, separation processes in, (E), 25:22511
ion collection by cylinders in stream of, 22:9334
ion content in, use of mass spectrometers for determining atomic to molecular, 21:32498 (N-66-38363)
ion cyclotron instabilities in, (E/T), 23:32463
ion distribution function for dense focus, self-consistent calculations for, 25:38427 (CONF-710607-43)
ion energy spectra measurements in, using mass spectrometers, 21:18676
ion extraction from puffs of, in magnetic guide fields, (E), 24:40073
ion scattering by electric fields in inertially confined, (E), 25:11880
ion—neutral particle coupling in accelerating, (T), 25:14306
ionization nonequilibrium in seeded argon, electron density measurement for, (E), 24:6536
ionized blobs in, production and properties of, (E), 23:14814
kinetic theory in axially symmetric coordinate system, 25:43366
kinetic theory of, self-consistent relativistic beam equilibria in, (T), 25:52829
kinetics in axisymmetric diverging magnetic fields, 21:11628 (NASA-TN-D-3782)
kinetics of collisionless, cold-ion approximation for, 21:29280
kinetics of two-temperature argon, quasi-one-dimensional, 21:42088
kinetics of, population of hydrogen levels in argon—hydrogen, 21:6988
laser phasography of, 21:7186 (AD-633703)
luminescence of high-frequency argon, at reduced pressure in relation to gas consumption, (E), 25:52808
luminous front velocity from DP device, measurement of, 21:18749 (INR-716/XVIII/PP)
magnetic field induction by dissipative, integral equation for, 24:42695
magnetic fields induced in, (T), 21:23052
magnetic forces in electric-arc, effect of, 21:2082
mass transfer processes during electrodynamic acceleration of, (T), 24:51682
mass—temperature of impurities in argon, (T), 21:46364
mixing of argon, with coaxial flow of cold helium, 21:18497(R) (N-66-37643)
motion and polarization in multipole magnetic fields, (E), 23:51632
motion behind electromagnetic accelerators, (T), 22:5365
motion between cold walls, ambipolar diffusion in, (T), 23:34438
motion between electrodes, sheath breakdown in argon, (E), 24:49139
motion in cross-flow arcs, transverse magnetic field effects on, (E), 25:52795
motion in electric arcs, longitudinal, (E), 22:15534
motion in electric arcs, longitudinal, (E), 22:15533
motion in inhomogeneous transverse magnetic fields, (T), 24:1437
motion in rapidly increasing magnetic fields, braking and purification in, (E/T), 24:3338
motion in spatially periodic magnetic fields, Hall current effects on, (E), 23:51634
motion in toroidal waveguides with rotation angle of 10°, (E), 23:51643
motion in tube in magnetic field, (E), 25:11775
motion near electrodes in magnetic fields, effects of electrode space—charge sheath in, (T), 24:37465
motion of alkali metal, in vacuum, 21:5287
motion of hydrogen, in linear quadrupole magnetic fields, (E/T), 23:12794
operation of 1 MW rf argon, for simulation of gas core rocket reactor, 23:47282
oscillations in burners, frequency analysis of, 21:25126 (IHT-1-21)
oscillations in cesium, electrostatic, (E), 22:29493
oscillations in column, in small magnetic fields, (E), 24:49210
oscillations in cylindrical traveling-wave, magnetoacoustic, 21:779
oscillations in electron-cyclotron-resonance-produced, (E/T), 24:17987
oscillations in magnetic fields, stability of surface wave, (T), 23:12932
oscillations in, random processes effects of temperature, 22:36891
oscillations of, radiation attenuation constants for inherent quasi-static, (T), 23:51669
particle densities in electric propulsion, 21:9591
particle velocity of refractory material injected into arc, 25:28859(T) (LA-tr-71-27)
performance in deposition of boride and nitride coatings, 23:22629
performance in deposition of metal coatings, on metals, 22:19502
performance in welding thermocouple junctions and sheaths, 24:42065 (NP-11063)
performance of 50-Hz, electrothermal efficiency, 24:15299
performance of fusion, for interstellar space flight, 25:25108
pinch production in, properties of, 21:23201
plasmoid motion across magnetic field, equations for, 21:9608
plasmoid production in, using transverse electric fields, (E), 25:36120
polarization during acceleration, (T), 24:30345
polarization in constant and variable transverse magnetic fields, (E), 24:37447
pressure distribution from quasi-stationary injectors, (E), 24:40067
pressure distribution in supersonic argon, with axial current, 21:784
pressure distributions in helium, measurement of, 21:9576
pressure of argon and helium, in air, dynamic, 21:20962
production and acceleration of, planar source for, (E), 23:44442(T) (AEC-tr-7057)
production and heating by magnetic field annihilation, 25:52832 (AD-721214)
production and reflection in mixed structures, 21:13560 (AGARD-CP-8(Vol.2), pp 643-58)
production and stabilization in hf torch discharges, 21:803
production and structure in coaxial injectors, 21:7276(T) (UCRL-Trans-10066)
production by inductive coupling in rf discharges, 25:40658
production by microwave ionization, 22:34713 (CLM-R-80)
production by transverse magnetic field cutoff, properties in, 22:44114 (NP-17581)
production from ion beam reactions with electrons, electrostatic instabilities in, 21:35193 (CONF-670104-Pt.2, pp 491-509)
production in arcs, effects of argon—hydrogen mixtures on, 24:21811
production in electric arcs, near-electrode phenomena in, (E), 23:51679
production of alkali metal, in vacuum, (E), 22:24351(T) (AD-666155)
production of argon, generator for, 25:14335
production of cesium, apparatus for, 25:22539
production of continuous, discharge device for, 25:14273
production of hot, method for, 21:3892(P)
production of magnetized rings of, in coaxial guns, 25:40660
production of pure, using laser beam irradiation, (E), 23:34442(P)

production of ring, in toroidal stabilized pinch configuration, 21:27202
production of short clusters by pulsed multipole magnetic fields, (E), 24:51693
production of strongly focused, rod injector for, (E), 24:19903
production of, apparatus for, 24:10556(P)
production of, by free expansion of gas, (E), 25:40657(P)
production of, devices for, 25:33286(P)
production of, effects of mechanical and thermal electrode properties on, 21:794 (AD-635872)
production of, electric arc design and performance for, 21:20980
production of, hf induction techniques for, 21:31430
production of, hf torch properties for, 21:20981
properties from Laval nozzles, nonequilibrium calculation of, (E/T), 23:23104
properties in annular ducts with electromagnetic fields, (E), 23:32384
properties in arc discharges, shock structure in, (E), 25:40623
properties in axial magnetic fields, (E/T), 23:34398 (AD-685124)
properties in E x B accelerators, 21:40033
properties in electric arcs with transverse magnetic fields, (T), 23:18642 (AD-674057)
properties in electrode gap of coaxial injectors, hydrogen, (E), 24:40068
properties in heavy-current electric arcs, (E), 23:32400
properties in high-current arcs, Hall effect in, (T), 23:27642
properties in high-frequency structures, (E/T), 23:32496
properties in inhomogeneous magnetic fields, diamagnetic, (T), 25:1204
properties in magnetically defected wall-stabilized arcs, (E), 25:47520
properties in supersonic spherical sources, hydrogen, (T), 24:21793
properties near cathode in MPD arcs, (E), 25:45465
properties near cathode region of MPD arcs, (E), 25:40626
properties of argon and neon, outside equilibrium, 24:15317
properties of argon arc, mechanical and electrical, (T), 25:33283
properties of dense z-pinch, 24:47217(T) (LA-tr-69-26(Draft))
properties of hf torch, effect of electromagnetic waves on, (E/T), 25:22505
properties of high-power nitrogen, 21:42109
properties of hot, steady-state axisymmetric, (T), 23:8598 (LA-4015)
properties of hydrogen target, for charge exchange studies, (E), 22:29489
properties of hydrogen, from coaxial electrodynamic injectors, (E), 22:29500
properties of induction-coupled argon, at atmospheric pressure, 21:35191
properties of induction-heated, for simulation of gas-core nuclear rockets, 25:56146 (N-71-27023)
properties of plasmatron-produced, 21:37477
properties of self-preserving argon, (E/T), 23:36665
properties of stationary supersonic, magnetohydrodynamic, 25:36108
properties of, produced by low-power MPD wind tunnel, 25:5105
properties of, with nonequilibrium ionization, (T), 23:3520
properties, summaries of conference papers on, 22:7165
radiation from, amplification of synchrotron, (T), 23:20919
radiations from hf argon discharge, calorimetric measurement of, 22:17634
radiations from magnetic line source in moving isotropic, 24:21805
reactions of argon, hydrogen, and nitrogen, with powdered coals, 21:9354
reactions with bodies in magnetic fields, 22:9335
reactions with cylindrical plates, electron density measurements in, 22:9291
reflection from metallic surfaces, pulsed, 23:1463
relaxation phenomena in radiating argon, 21:42092
research on, 22:5303(R) (NP-17128)
resonance phenomena in, (T), 23:14786(T) (UCRL-Trans-10323)
resonance phenomena in, (T), 23:18648 (IAE-1570)
rotation in interelectrode region of magnetohydrodynamic arcs, (E), 24:32832
rotation in pulsed inductive accelerator, 23:8604
rotation of theta-pinch-generated, in longitudinal magnetic fields, (T), 24:3354 (N-69-35036)
seeding of low-density, two-phase, (T), 25:36116
sheath dynamics near electrode in magnetic field, (T), 25:14300
shock wave structure in continuous supersonic wind tunnels, (E/T), 25:52801
shock wave structure in partially ionized argon, (E), 24:45242
simulation of coaxial flow, (T), 23:1425 (LA-3990, pp C6.1-8)
spectra in arc plasmatrons, (E), 23:32372
spectra in coaxial accelerators, transient argon, 22:1157 (LA-3770, Paper E6)
spectra in powerful pulsed plasmatron, (E), 23:32371
spectra of argon in coaxial guns, correlation with gun performance, 22:36913 (N-68-17070)
spectra of argon in coaxial guns, time-varying, (E), 23:1378 (N-68-25949)
spectra of argon, visible, 22:7320
spectra of cesium, in coaxial accelerators, 22:1158 (LA-3770, Paper E7)
spectra of helium arcs, line broadening of triplet diffuse series of, (E), 25:5082 (N-70-33122)
spectra of nitrogen, determination of local temperatures from, (E), 22:34601
spectra of under-expanded argon, 22:3034
spectra of weakly ionized argon, collisional—radiative recombination processes in, (E), 23:44399
spectra of weakly ionized argon—nitrogen, 23:51607
spectra of, energy level populations of argon and helium in, (E), 24:23964
spectra of, length and displacement of argon I and II lines in, 21:31454
spectra of, method and apparatus for obtaining, 25:1185(P)
spectral analysis using Doppler effect, 24:21763
spectral line profiles of Ar II in flute argon, 22:44108
spectral study of hydrogen arcjet plume at low mass flow rates down to zero, 21:9397
splitting of, magnetic field effects on, 21:9579
spreading near walls, in transverse magnetic fields, 21:35183
sputtering of exposed surfaces by, thin-film protection for, (E), 21:6971 (AD-633670)
stability in arc discharges, neutral drag, (E/T), 25:52800
stability in crossed electric and magnetic fields, frequency and amplitude shifts in, (T), 25:14338
stability in magnetic fields, (T), 21:29316
stability in magnetic fields, effects of Hall current and electric conductivity on Rayleigh—Taylor, (T), 24:42712
stability in magnetic mirrors, 22:44194
stability in MHD accelerators, linearized perturbation theory for, 25:45491 (AD-718954)
stability in parallel uniform magnetic fields, (T), 25:56202
stability in traveling-wave ultrahigh-frequency field in waveguide, 22:44190 (NP-17559)
stability of argon, (E), 21:7265
stability of colliding, ordinary mode electromagnetic, (T), 25:59065
stability of dense plasma focus, (E), 24:3390
stability of dense stratified, hydrodynamic theory of, (T), 24:49191
stability of dense, properties of, (T), 21:2274
stability of gravitating, with magnetic fields and rotation, (T), 21:3896 (N-66-29395)
stability of inhomogeneous hot, kinetic theory of, (T), 23:39494(T) (AEC-tr-7053)
stability of interstreaming, growth rates and frequency range of, (T), 25:17202
stability of MHD half-jet, 21:41878
stability of MHD sheet flow, dissipative, (T), 24:6549 (AD-693405)
stability of nitrogen, flute, 21:37501 (EUR-2530.f)
stability of plane relativistic E layer in plasma with imbedded sheared magnetic fields, (T), 23:30575
stability of relativistic half-jet, 21:42145
stability of rotating, gravitational, 21:40046
stability of slowly tapered axisymmetric, 23:8632 (LA-4034)
stability of spatially separated, theory for, 25:33305
stability of stationary, hydromagnetic, (T), 22:22193
stability of stream motion in divertor magnetic field, (T), 25:1231
stability of streaming collisional, transverse, 24:51702
stability of two-dimensional, at large Reynolds numbers, (T), 23:44225
stability of, electromagnetic and finite β/sub e/ effects on counterstreaming ion, (T), 25:43394
stability of, hydrodynamic theory for, (T), 23:12873 (NP-17760)
stability of, hydrodynamic theory for, (T), 23:44446(T) (AEC-tr-7071)
stability of, ion cyclotron, (E/T), 23:32463
stability of, Kelvin—Helmholtz, (T), 23:23167 (LA-4107)
stabilization from alternating-current arcs, using concentric nozzles, (E), 23:25380
stabilization of short wavelength oscillations in quasi-one-dimensional, (T), 23:51731
stabilization of transverse instabilities in, by magnetic fields, (T), 25:49916
striations in coaxial accelerators, structure of radial, 25:22504
structure in axial magnetic fields, separation properties of, 21:35188
structure in electrode-discharge shock tubes, (E/T), 24:37453
structure of electrostatic charge in pulsed, 21:35189
structure of, magnetic dipole effects on, 21:7120
temperature distribution in argon, measurement of, 21:44048
temperature distribution in H-mode rf, measurement of, 21:13547
temperature distribution in one- and two-phase subsonic, effects of condensed phase on, (E), 25:9434
temperature in argon induction, spectroscopic measurement of, 22:44084 (INR-906)
temperature measurement and internal heat transfer analysis for argon, (E), 21:2204 (SU-247-11)
temperature measurement techniques for, review of, 21:20931
temperature measurements in, using electron probe techniques, 21:18644
temperature profiles of induction-coupled torch, model calculations, 24:8478
theory of hydrodynamic beam instabilities from, nonlinear, 22:46170
thermal flux in high-frequency electrodeless, (E), 21:25141
thermodynamic equilibrium in argon, local, (E), 25:9454
time-of-flight analysis of, self-consistent, 21:27192
transport using two-dimensional multipolar magnetic fields, 22:9370
turbulence in magnetohydrodynamic flows, (T), 25:45480
turbulence in, analytic forms for decaying space—time, 24:1422
turbulence in, properties of, (E/T), 24:3326
use for detection of hydrocarbon deposits, (T), 25:3098
use for determination of traces by atomic absorption, 22:4000 (RT/CHI-(67)15)
use for modeling processes for gas jets, 21:44080
use for preparation of tantalum nitrides, 22:15237(T) (MLM-1475(tr))
use for solid waste disposal, 25:40612 (CONF-710429-1)
use in absorption spectrometric determination of aluminum, lanthanum, and vanadium, 21:2976
use in determination of transition probabilities in argon spectra, 21:27199
use in emission spectroscopy, 22:7975(T) (ORNL-tr-1826)
use in furnaces, 21:35918(R) (NYO-2082-12)
use in medicine, radiation effects on man from, 22:51653
use in nuclear technology, 22:13460
use in production of circular-cylindrical surfaces on lathe, 25:31753(T) (UCRL-Trans-10524)
use in production of refractory spheres, 24:42206 (NP-10941)
use in welding of aerospace materials, review, 21:1880
use of 10-kW induction coupled, for microspheroidizing ceramics, 22:17161 (UCRL-17896)
use of fusion torch, for pollution control, 25:49883
use of shock compressed, as light sources, 21:9570
velocity and temperature of, correlation between experimental and theoretical predictions, 25:17148
velocity distribution in one- and two-phase subsonic, effects of condensed phase on, (E), 25:9434
velocity distribution in transverse magnetic field, (T), 21:23052
velocity distribution in, at MHD-duct outlet with magnetic quadrupole, 25:45341
velocity distributions in helium, gas flow model for, 25:14252
velocity distributions in helium, gas flow model for, 25:14253
velocity in channels along nonhomogeneous magnetic fields, 23:3506
velocity in crossed electric and magnetic fields, inhomogeneities in, (T), 24:37473
velocity measurement by Abel unfolding of Doppler shifts, 24:5157
velocity measurement method for, theory of induction method of, 22:41561
velocity measurement of, technique for, 21:7215
velocity measurements from coaxial Hall accelerators, 21:16920
velocity measurements in induction machine, conductivity determination from, 22:34674
velocity measurements of, interferometric, 21:15125
velocity measurements of, probe for, 22:36888 (N-68-16527)
velocity measurements using spark-injection technique, 21:9562 (SC-DC-66-2266)
velocity profiles of MPD arcjet, spectra measurements of, 24:19873
vortices in coaxial accelerators, diagnostics of, 21:33463
vortices in conical coil induction accelerators, 21:33465
vortices in magneto-bounded, pair production of, 21:776
wave amplification in semibounded, electromagnetic, (T), 25:33305
wave excitation and detection in rotating, magnetoacoustic, 21:42093
wave excitation on surface of, electromagnetic, (T), 24:51741
wave interactions with weakly inhomogeneous, uhf, 21:15133
wave propagation in magnetized, invariance properties of, (T), 23:16840 (UUIP-615)
wave propagation in relativistic, superluminous, (T), 24:28362
wave propagation in, nonlinear effects of large-amplitude ion acoustic, (E), 25:40713
wave propagation on boundary of adjacent, electrostatic surface, (T), 25:17247
wave propagation on surface of adjacent, electromagnetic, (T), 25:36219 (UARAEE-97)
wave propagation through cold, from oscillating magnetic and electric dipoles, (T), 23:10654
wave reflection at interface of, electromagnetic, (T), 23:12921
wave reflection from interface between stationary and moving, electromagnetic, (T), 25:49953
wave reflection from nonuniform, electromagnetic, (T), 21:44076
wave scattering on, spectra of electromagnetic, (T), 22:19987

PLASMA, SOLID-STATE
bibliography on, 22:3144 (MATT-BIB-1)
book: Semiconductor Plasma Instabilities: Including Gunn Effect and Avalanche Oscillations, 24:30326
book: Wave Interactions in Solid-State Plasmas, 24:17872
collective description of electron in generalized RPA, 22:3066
conductivity of, one-dimensional solution considering scattering effects, (T), 23:10627 (D-1-82-774)
crystallization of classical one-component Coulomb, (T), 23:23143
electron beam interactions with, theory and observation probabilities for nonlinear, 22:31923 (BNL-50083, pp 155-66)
electron interaction spectra in metals, (T), 23:48984 (NP-18018)
electron relaxation behavior in nonequilibrium, (T), 25:1211
frequency of electron gas interacting with phonon field, temperature dependence of, (T), 23:14887
kinetic equations for, generating function for exact solution of Vlasov, 25:7393
kinetic theory of, Bogolyubov, (T), 23:25332 (AD-678577)
kinetics of quantum, nonlinear interactions in, (T), 22:31807 (ORNL-TM-2101)
oscillations in electron beam reactions with aluminum foils at 34 keV, 22:7304
oscillations in metallic sphere, fast electron excitation of, 23:7018

oscillations in metals, theory of collective, 23:23242(R) (ORO-2755-24)
oscillations in solid and liquid tin and gallium foils, (E), 23:25405
oscillations in superconductors, dispersion law for, 25:1107
photon beam interactions with, theory and observation probabilities for nonlinear, 22:31923 (BNL-50083, pp 155-66)
photon emission by surface plasmons in electron-bombarded metals, (T), 24:39809 (ORNL-4446, pp 163-76)
pinch effect in, Megagauss z, 22:11448
pinch oscillations in electron-hole, (E/T), 24:40130 (D-1-82-965)
plasmon energy shifts in hcp, bcc, and fcc structures, 23:48994
plasmon excitation in free-electron gas, mean free path calculations for double-, 24:21876
production using electron beam collector with ionization cavity, 24:10559
properties of, (E), 22:24311
properties of, review, 23:10626 (D-1-82-772)
reflectivity decrease of metallic surface due to surface plasmon effect, (T), 24:39809 (ORNL-4446, pp 163-76)
resonances in surfaces of spherical silver and gold particles, 24:18032
stability in magnetic fields, finite-amplitude, (T), 24:24020
stability of, nonlinear collisional effects on, (T), 24:47272
stabilization of current-convective instabilities in germanium, 24:17896 (NP-18145)
transport theory in strong magnetic fields, 22:50135
wave coupling in, cyclotron and spin, 22:3145
wave coupling to spin waves in magnetically ordered semiconductors and metals by electron beams, (T), 23:48971
wave propagation in indium antimonide, helicon, (E/T), 22:1283
wave propagation in monoaxial crystal with electron plasma in quantized magnetic field, electromagnetic, (T), 23:51724
wave propagation in nonuniform, dispersion of helicon, (T), 23:10666
wave propagation in strong magnetic fields, quantum electromagnetic, (T), 24:45389
wave propagation in waveguides of, Fresnel effects in, (T), 24:6560 (IPP-3/94)
wave propagation in, electric and magnetic resonances in Voigt configuration of micro-, (E/T), 25:11929
wave propagation in, low-frequency limit of helicon, 22:5430
wave propagation in, normal to magnetic field, (T), 22:1284
wave propagation in, space-charge, (T), 25:27805

Plasma Substitutes
see Blood Plasma Substitutes

Plasma Thermocouple
see Thermionic Converters

PLASMALOGENS
synthesis in brain of rats, role of palmitaldehyde in, 21:20033 (UCLA-12-612, pp 1-14)

PLASMAPAUSE
analysis of, relation to excitation of SAR arcs, (E/T), 25:24991
asymmetry in L value of, relation with SAR arc motion, (E), 25:40481
characteristics of, (T), 22:38920
charged-particle currents in vicinity of, (T), 24:32754
configuration of, in presence of magnetospheric convective flow, (T), 24:5071
contractions during geomagnetic disturbances, (E), 22:15414
convection at dusk, geomagnetic activity-related model of, (T), 25:11776 (AD-708495)
convection in, (T), 23:30449
correlation with SAR arc latitudinal location, (T), 25:43242
correlation with vlf propagation, F-layer warming, and electric-field creation, (E/T), 25:49817
detection from OGO satellites and Antarctic ground stations, (E), 23:34324
detection of, from EOGO satellites and Antarctic ground stations, (E), 23:48810 (N-69-30823)
drift-wave instability at, cold electron-associated stabilization of, (T), 25:47452
electric field detection at boundary of, double probe technique for, (E), 24:42590
electron density and layer shape factor of, 24:30208
electron density and temperature near calculation of, 22:44005
electron density in, measurement by Alouette I satellite, 24:17824
electron precipitation near, correlation with vlf emissions and plasmapause position, (E/T), 25:58897
formation of, associated with dynamical processes in ionosphere and magnetosphere, (E/T), 25:58867
formation of, relation to acceleration and precipitation of outer magnetospheric thermal plasma, (E/T), 25:58909
ion density and temperature in, Ogo-5 observations of thermal, 25:7233
ion distribution in dusk-side, helium and hydrogen, (E), 24:32729 (N-70-12926)
ion profiles during satellite crossing of, helium, hydrogen, and oxygen, 24:42583
location effect in low-latitude decrease of outer-zone electron precipitation, morning, (E/T), 25:43211 (AD-715266)
location of, (E), 24:51505 (N-70-27356)
location of, correlation of elf radio emissions below 1500 km, (E), 24:51548
location of, effects on occurrence of chorus, (E), 24:39923 (AD-704817)
location of, relation with Pc2, -3, and -4 geomagnetic field pulsations, (E/T), 25:9353
magnetic-field measurements near L approximately equal 4, conjugate geomagnetic-noise and coherent-pulsation, (E), 25:58898
monitoring of, worldwide technique for, (E), 25:9325
motion during changing magnetic activity, model of, 24:37323 (N-70-18861)
motion of magnetospheric, statistical analysis of, (E/T), 24:51554
motion of, calculations of time-dependent, 25:55972
particle density in plasmaspheric equatorial plane during solar quiet periods from streaming models, (T), 25:40499
plasma density variations beyond, (E/T), 24:51504 (N-70-27302)
plasma drift during changing magnetic activity, time-dependent model of, 24:45105
plasma instabilities in magnetospheric, review of, 25:58895
plasma moment equations for dipole fields, 24:32736
plasma on closed field lines outside plasma-sphere, thermal, (E/T), 24:51511
plasma streaming across dusk bulge in, relation to geomagnetic activity, (T), 25:19577
position and displacement of, from ground-based whistler method, 25:5029
position during June 15, 1965 magnetic storm, relation to trapped enhanced >280 keV electron flux, (E), 25:43264
position in duskside magnetosphere, (E), 24:26074
position in magnetosphere satellite observations of, 22:2934
position near local midnight and magnetic equatorial plane, interrelation with near-Earth plasma sheet, (E), 25:27631
position of, effect of magnetic activity on, (E), 24:17780
position of, effect of varying magnetic activity on, (E), 24:42583
position of, Elektron 2 and 4 detection of time-dependent, (E), 25:17051
position of, from OGO 5 data, (E), 24:10438
pulsation source lines in or near, relation with structured Pcl micro-, (E/T), 25:11788
radius determination of, from relation of magnetospheric electric-field dependence on solar-wind velocity, (T), 25:56039
relation of location of, to magnetospheric field lines leading to SAR arcs, (E/T), 25:30376
relation to ion composition in topside ionosphere, (T), 22:38883 (N-68-13371)
relation to ionospheric structure, (T), 25:40492
relation to plasma sheet, trapping boundary, and ring current near magnetic equator and local midnight, (E), 25:16877 (AD-710768)
structure in boundary of, evidence of corotating tail-like, (E/T), 25:56028
structure in, longitudinal, (E), 24:23854
structure on boundary of, evidence of corotating tail-like, (E/T), 25:56028

PLASMIDS
see also Plastids
see also Viruses
radioprotective effects of, on Escherichia coli mutants, uv, 24:31918

PLASMIN
radiation effects on activity of γ and x, 21:45526
radiation effects on activity of, in guinea pigs, acute x, 22:49281
radioimmunoassay for human, use of iodine-125 for, 23:41194
use of iodine-131-labeled, for diagnosis of atherosclerosis, evaluation of, 21:36623(T) (JPRS-41149, pp 65-73)
use of iodine-131-labeled, for diagnosis of thrombi, evaluation of, 21:36623(T) (JPRS-41149, pp 65-73)

Plasminokinase
see Streptodornase—Streptokinase

Plasmodium
see under Protozoa

Plaster of Paris
see Gypsum Products

PLASTERS
see also Gypsum Products
fracture and fragmentation determination of loaded homogeneous brittle plates of, drop test facility for, 21:30646 (NP-16806)
porosity of dental, beta backscatter measurements of, 21:18108
radioinduced crosslinking of coatings on, 24:18983 (CEA-CONF-1413)

PLASTIC DEFORMATION
see also Creep
see also Plastic Flow
calculation of, in two- and three-dimensional structures, computer program for, 21:16083 (KAPL-M-6582)
calculational methods for perforated plates, 21:31011(T) (WAPD-Trans-55)
conference on deformation of crystalline solids, Ottawa, Aug. 1966, Part II, 21:24800
conference on deformation of crystalline solids, Ottawa, Aug. 1966, Part III, 21:24802
dislocation mobilities in, mechanisms for, 21:24789
effects on magnetic properties, review, 25:52967
measurement of circular plate, subjected to impulse loading, 21:40750 (SC-RR-67-532)
mechanisms in bcc metals, 22:17103(R) (GA-7978)
mechanisms in bcc metals, review of models for studies of, 25:35370
mechanisms of metal, 21:18280(R) (EURAEC-1803)
mechanisms of ridged, in metallic fuel pellet cladding, 21:35778
radioinduced in clad ceramic fuels, computer analysis of, 21:1963 (WAPD-TM-583)
rates in thin tubes, effects of pressure and stress on, 22:28810

PLASTIC FLOW
see also Fluid Flow
equations for multiaxial, derivation of, (T), 21:34190 (ORNL-4138)

Plastic-Moderated Assembly
see Critical Assemblies

PLASTICITY
book: Physics of Strength and Plasticity, 24:14725
models for material, validity of Arrhenius equation in, 24:25673 (ANL-7417, pp 51-9)
numerical analysis of strain distribution of materials during, effects of stress and strain variations on, 22:4775 (WAPD-TM-712)
properties of multiaxial, in anisotropic materials, (T), 21:34190 (ORNL-4138)

PLASTICIZERS
analysis of, for oxygen by triton activation methods, 21:12330

PLASTICS
(See also specific compounds used as plastics.)
see also Ethylene Polymers
see also Laminates
see also Styrene Polymers
analysis for aluminum by neutron activation, 23:24113 (CONF-670649-1)
analysis for antimony and gold, activation, 22:27558
analysis for halogens, 22:30436(R) (UCRL-50006-68-1)
analysis for trace elements by neutron activation and γ spectrometry, 23:11444 (BNWL-481-2, pp 1-126)
analysis of films of, for oxygen by triton activation methods, 21:12330
analysis of strips of cellulose acetate butyrate, for boron, 24:2100 (IN-1316, pp 41-59)
analysis of Viton A for chlorine, 21:23808 (UCID-15100)
analysis of, loss of trace metal impurities in spectroscopic, 25:37260(R) (UCRL-50006-71)
beta absorption in, use of extrapolation ionization chamber for determining distribution of energy of, 23:11799
bibliography on damping capacity of, 21:477 (AD-640465)
book: Corrosion Week. 41st Manifestation of the European Federation of Corrosion, 7-12 October, 1968 in Budapest, 25:13636
book: Materials Data Book for Engineers and Scientists, 24:942
book: Modern Composite Materials, 22:34007
book: New Materials in Engineering, 21:9050(T) (AD-643685)
book: The Properties and Testing of Plastic Materials, 23:10311
carbonization of heat-protective, method for computing effects of heat on, 21:24774
combustion and smoldering of, opacity of smokes from, 22:16374 (UCRL-70794)
conference on process radiation in plastics industry, Pullman, Washington, June 11-13, 1969, 25:29121
conference on uses in Pacific Northwest, Richland, Washington, July 14 to 16, 1966, 22:26097 (CONF-660706)
contamination of, effects of, on analysis of seawater for trace elements, 23:11444 (BNWL-481-2, pp 1-126)
corrosion of fiberglass-reinforced, by uranium hexafluoride, (E), 24:10145(R) (PNCT-AR-68)
corrosion of, mechanisms and prevention of, 23:50994
corrosion product deposition on surfaces of, mechanics of, 23:36016
cosmic-particle track identification in Apollo helmets, (E), 25:9255
cure testing of molded, 25:51584(R) (MLM-1792)
decontamination in protective clothing, 21:43434
decontamination of surfaces of, by alkaline oxidizing and acid reducing solutions, 23:19851
defect detection in, fast-neutron, 21:247
deformation of rigid foam-type, under compression and tension, measurements of Poisson's ratio for, 24:25809 (UCRL-72092)
design of polymeric castable, for moderators, 21:39713(P)
detection efficiency and scintillation response for 2- to 40-keV electrons, 21:41766
development for use as radiation-resistant insulators, 21:21970 (ORNL-4076, pp 117-39)
development of phosphor of, for carbon-14-labeled carbon dioxide counting, 21:4457
dielectric properties of, at high temperatures, 21:24834 (NP-16700)
electric properties of, containing finely divided metals, 24:46284
electron absorption at 0.02 to 50 keV in, measurement and calculation of, 23:25743
electron dose—depth profiles in dosimeters, effects of trapped charge on, 25:8566
electron energy deposition in solid radiation-sensitive, as function of charge fluence, 25:22570 (SC-RR-70-427)
electron energy deposition profiles in radiation-sensitive, 25:22575
energy transfer and quenching in phosphors of, 23:2612
energy transfer to bakelite, calculation of thermal to 18 MeV neutron, 23:29515
erosion by liquid metals and water, 21:1863 (NP-16274)
evaluation of, for packaging of γ-irradiated seafood, 21:13090
exposure to high-energy radiation, standard method for, 25:40143
fabrication of dye-containing, for radiation dosimeters, 24:39371(P)
fire behavior of, evaluation of test results in testing of, 25:37186(T) (GAT-Z-5046)
fission fragment energy loss in, (E), 25:20442
fission track formation in Lexan, spatial parameters for uranium, 25:408
fracture of, measurement of work, 21:26827
fracture toughness testing of glassy, 22:26100 (UCRL-17911)
friction loss of, for use in ventilation of fallout shelters, 21:3228(R) (AD-632964)
gamma dose rates for cylindrical source volumes from fission products through, 23:3533 (ARH-46)

gamma reflection by barriers of, 15-MeV betatron bremsstrahlung, (E), 24:51766
iodine retention properties of coatings of, 22:5963
ion charge states in, relation between electronic structure and, 22:36726
light absorption coefficients of phosphors of, use of theory of light diffusion for determining, 21:22164
light output of Naton 137 and Pilot B, 22:40414
mechanical properties of ceramic-reinforced, nondestructive determination of, 21:26896
mechanical properties of Fiberglas laminated, effect of glass beads and powdered quartz additives on, 22:11099 (AERE-R-5504)
meson (μ^+) depolarization in scintillation, in magnetic fields, (E), 23:30320
molding into parts, defects related to, 25:10341 (BDX-613-166)
molding of polycarbonate, in screw-type molding machines, 21:34203(R) (UCRL-13280)
muonium behavior in scintillating, 21:31246
neutron dosimetry in, tissue equivalent studies of, 21:12827(R) (AD-639758)
neutron propagation in reinforced, (T), 22:29842
neutron total cross section at 0.01 to 10 eV, bakelite, (E), 23:46901
particle track counting in foils of, 25:37613
particle track etching in Lexan, enhancement by spark discharge, 24:44259
particle track etching in polycarbonate, parameter study, 25:390
particle track etching in, parameter study, 24:41669
particle track etching rate in Zelux polycarbonate sheets in sodium hydroxide solution, 25:388
particle track etching rates in Makrofol polycarbonate films, combined effects of ultraviolet radiation and gases on, 24:41672
particle track formation in Lexan sheet, contacting minerals during neutron irradiation, 25:283
particle track formation in, chemical processes involved in latent, 23:9939 (ORNL-4316, pp 231-69)
penetration into Lumarth and Plaskon, comparison of electron and positron, 21:33177
performance in vacuum systems, effects of temperature on, 21:38098
performance of films of, as packaging for radiation processed foods, 23:3009
performance of liquid-impregnated foils of, for electric insulation, 25:30569 (EUR-4593, pp 281-6)
performance of stacked layers of, as alpha particle track detector, 23:14021(P)
photon reactions with bakelite at 10 keV to 100 GeV, parameters for, 24:3492 (NSRDS-NBS-29)
porosity of dental, beta backscatter measurements of, 21:18108
preparation of phosphors of, based on cross-linked epoxy resins, 23:2602
preparation of, use in measuring radiation effects on organic tissues, 22:6354(P)
production in Israel, use of large radiation sources for, 21:41150 (NP-16994)
production in nuclear-powered agro-industrial complex, economics of, 23:31249 (CONF-680810-, pp 29-43)
production of reinforced, survey of winding filament materials for, 23:27206 (AWRE-O-81/68)
properties and uses of, 25:24581
properties as coating for corrosion protection of lithium, 23:22467 (RFP-1260)
properties evaluation for use as fuel handling magazine, 22:26037 (CONF-660706-, pp 91-103)
properties for use in encapsulation of noble fission product gases for shipping and storage, 24:16818 (ORNL-4473)
properties for use in glove box windows for plutonium recovery, evaluation of, 24:27901 (RFP-1424)
properties for use in space, 24:39677
properties of, 22:11047(T) (JPRS-42628)
properties of glass dispersion reinforced, fatigue, impact, and tensile, 23:25006
properties of glass-reinforced, for casing large diameter holes for underground nuclear tests, 21:22107 (NVO-193-02)
properties of mineral fiber-reinforced, as radiation shielding materials for structure and vehicles, 25:52494(P)
properties of, tabulations of electrical, mechanical, and physical, 22:4731
radiation chemistry of registration of particle tracks in, 24:13875 (ORNL-4400, pp 151-7)
radiation curing of reinforced, electron, 22:11102
radiation dosimetry in tissue-equivalent, thermal defect in proton, 23:35735
radiation effects on, 22:26097 (CONF-660706)
radiation effects on, 21:31054(R) (BNWL-CC-1053)
radiation effects on chemical reaction between epoxide binder and fiber-glass-reinforced, electron, 24:2251
radiation effects on cords of, 22:47189(P)
radiation effects on curing of glass-fiber-reinforced, 22:10268
radiation effects on elasticity of, electron, γ, and x, 22:21643
radiation effects on electric conductivity of, 24:37003 (ORNL-4586, pp 118-25)
radiation effects on electrical-discharge patterns of plates of epoxy, electron, 22:28974
radiation effects on etch rate of Lexan, gamma, 24:27355
radiation effects on fiber-glass-reinforced, EPR and ir study of electron, 24:2251
radiation effects on films of, γ, 22:33374(T) (CEA-tr-X-635)
radiation effects on flexible, for packaging irradiated foods, 22:11103
radiation effects on impregnation of concrete with, gamma, 21:23908 (BNL-50042)
radiation effects on infrared spectra of, 22:14518(R) (ORO-2418-4)
radiation effects on Lexan, track formation from charged particle, (T), 22:31953
radiation effects on molecular structure of, ir studies of, 22:48879(R) (ORO-2418-5)
radiation effects on performance of, in vacuum system, 21:38098
radiation effects on properties of, neutron, 22:15270
radiation effects on stability of, γ, 22:19466
radiation effects on strength of glass, electron, 24:48912
radiation effects on tensile properties of, γ, 21:3086 (Y-1562)
radiation effects on wear resistance of, in water at 80 to 160°F, gamma, 21:18358 (AECL-2532)
radiation effects on, 1.3 MeV gamma and 6.0 MeV electron, 25:2819 (LCIE-342)
radiation effects on, bibliography on, 25:32865 (JUL-Bibl.-15)
radiation effects on, review of, 22:26098 (CONF-660706-, pp 55-61)
radiation effects on, review of, 23:10312
radiation mass stopping power of, gamma, (E/T), 22:50042
radiation processes for production of, review of facilities and economics of, 23:28920
radiation processing of, 25:29128
radiation processing of medical supplies of, 25:19161
radiation production of, review on electron, 25:29127
radiation resistance at cryogenic temperatures, 25:49071
radiation resistance of pipes of, γ, 22:45104
radiation resistance of, effects of composition on, 22:48890
radiation resistance of, evaluation of, 25:34690(R) (IN-1457)
radiation resistance of, for use as electric insulators, 22:25375 (ORNL-4229, pp 183-7)
radiation resistance of, γ, 21:45208 (ORNL-4145, pp 289-91)
radiation transmission through, 17-keV x, 22:38261(R) (SC-CR-67-2845)
radioactive contamination of surfaces of, development of solution for removing, 22:38289
radiography of, using ytterbium-169 sources, 21:6530
radioinduced cross-linking and graft polymerization of, review on modification of properties by electron and γ, 25:44384
radioinduced crosslinking of coatings on, 24:18983 (CEA-CONF-1413)
radioinduced endothermic reactions in tissue-like, calorimeter for measurement of proton, 23:11752 (BNWL-481-2, pp 155-200)
radioinduced formation of, for fabrication of foamed bodies, 21:6901(P)
radioinduced formation of, in wood, γ, 21:21971(R) (ORO-2945-7)
radioinduced free radicals in, ESR studies of pulsed electron, 22:34130 (NP-17353)
radioinduced graft polymerization of Celcon filaments onto styrene, effects of N,N-dimethylformamide or methanol on rate of γ, 22:8094(T) (AEC-tr-6908, pp 42-7)
radioinduced impregnation of concrete and wood by, methods of, 21:35701(R) (BNL-50023)
radioinduced polymerization in concrete, bibliography on, 25:13030 (AAEC/LIB/Bib-260)
radioinduced polymerization in wood, bibliography on, 25:13029 (AAEC/LIB/Bib-259)
radioinduced polymerization of, industrial uses of, 24:18984 (CONF-691036)
radioinduced production of foamed bodies of, 21:1405(P)
radioinduced production of, problems in, 24:31405
radioinduced production of, review of developments in, 25:39658
radioinduced scintillations in NE-213, NE-213M, and NE-218, time dependence of gamma and neutron, 22:40415
reactions of dielectric, with fluorine, 25:57619 (RFP-1739)
scintillation decay time of Naton 137 and Pilot B, 22:40414
scintillation efficiency of phosphors of, for 1.3-MeV protons and 0.624-MeV electrons, 22:36061
scintillation efficiency of, use of theory of light diffusion for determining, 21:22164
scintillation properties of, effects of organic halogen compounds on, 21:21939
scintillation yields in alpha, deuteron, and electron bombardment of NE-102, 21:364
shielding properties of vinyl, for x-ray diffraction apparatus, 25:13457
shielding properties of, containing barite concretes, 23:9137
shock-dissipation and stress-transfer properties of, as backpacking material for underground structures, 21:253 (AD-634691)
smoke properties of various types of, 22:45357(R) (UCRL-50007-68-1)
solvent properties of tubing of, for propyne, 24:4350 (CU-755-6, Sect.7-D)
sorptive properties for europium-155, effects of pH on, 23:47451
sorptive properties of, for sodium fluoride, 21:10393
space environment effects on, 23:43941
stability of membranes of, effects of shock loading on, 25:42506(R) (ORNL-4566(Pt.1))
strain distribution in, numerical analysis of, 22:4775 (WAPD-TM-712)
strengthening of, by embedded fibers of boron or borides, 21:18315(P)
stress corrosion cracking of chemical plant construction materials of, methods of inhibiting, 23:16553
surface area and roughness measurements on, using carbon-14-labeled hexadecyltrimethyl ammonium bromide, 21:6162
testing for use as glove box window material, fire, 23:19915 (TID-24896)
thermal defects in tissue-equivalent, used for calorimetric dosimetry, experimental evaluation of, 22:28176 (BNWL-SA-1760)
thickness measurement of tubular, beta backscatter gage for, 25:10890(P)
thickness of coated and uncoated, alpha particle and x-ray thickness gage for determining, 21:14489
thickness of tubes of, design of radiometric gage for measuring, 22:25690(P)
thickness variations of steel plate-sandwiched sheets of, determination by radiography, 22:277
transfer molding of close tolerance parts of, 25:37162(R) (BDX-613-283)
ultrasonic sound wave attenuation in, for use in lens materials testing devices, 22:782 (SCL-DR-67-110)
use for fast neutron flux measurements by particle track detection, 22:40364
use for personnel neutron dosimetry based on alpha particle, fission fragment, or recoil nuclei track registration, 22:21361
use for track detection and identification of cosmic-ray nuclei, 21:23036
use in concrete as shielding material, 23:5447
use in container for shipping radioactive materials, 21:32358(P)
use of bags of, for air sampling, 22:43303 (LA-DC-9056)
use of enclosures of, for in vivo radioassay of insects, 21:41352
use of Makrofol polycarbonate, to measure fast neutron flux in reactors, 25:386
use of phenolic foam, in shipping container for uranium hexafluoride, 21:10501 (K-D-1920)
use of tritiated, as references for absolute specific radioactivity in autoradiograms of tritium-labeled tissues, 21:22274
use of, for packaging electron-sterilized foods, effects on induced radioactivity in food from, 21:14782
uses at Hanford, review of, 22:26099 (CONF-660706-, pp 111-23)
uses in plutonium scrap recovery plant, 22:27855 (ISO-SA-22)
wear resistance of self-lubricating, in water at 80 to 160°F, 21:18358 (AECL-2532)
x-ray absorption at 44 to 85 A by Melinex, mass coefficients for, (E), 24:46991
x-ray absorption coefficients at 4 to 17 A, (E), 24:30145
B—plastics, properties of continuous filament reinforced, for use in space vehicles, 25:58422
C—plastics, properties for use in space, 24:39677
concrete—plastics, development, preparation, properties, and testing of, produced by radioinduced polymerization, 25:19292 (BNL-50275)
concretes—plastics, development, preparation, properties, and testing of, produced by radioinduced polymerization, 24:39730 (BNL-50218)
concretes—plastics, properties and uses of, 24:42297(T) (AEC-tr-7147)
concretes—plastics, properties of, produced by radioinduced polymerization, 24:46287
fibers—plastics, radiation processing of, economics of, 24:8213(T) (AECL-3327)
glass—plastics, radioinduced production of, 25:23605
graphite—plastics, properties of continuous filament reinforced, for use in space, 25:58422
plastic—wood, commercial development and uses of, 22:23041
plastic—wood, commercial development and uses of, 21:239
plastic—wood, commercial development and uses of, 21:8534
plastic—wood, evaluation for commercial use, 21:6160 (ORO-3415-1)
plastic—wood, fabrication of, evaluation of adhesives and mechanical fasteners for, 21:40737 (ORO-2945-9)
plastic—wood, mechanical and physical properties of, 22:23041
plastic—wood, production and properties of radiation-tempered, 21:10377 (SGAE-CH-39/1966)
plastic—wood, properties of irradiated, 21:19708
plastic—wood, properties of radioinduced, 21:42966(T) (NP-tr-1565)
plastic—wood, radiation curing of, economics of, 22:2140
plastic—wood, radiation processing in Israel, using large sources, 21:41150 (NP-16994)
plastic—wood, radiation processing of impregnated composites of, 21:10399
plastic—wood, radiation processing of, effects on mechanical properties of gun stock materials from, 21:45305 (AD-640660)
plastic—wood, radioinduced formation of, 21:42966(T) (NP-tr-1565)
plastic—wood, radioinduced formation of, 22:23055
plastic—wood, radioinduced graft copolymerization in, 21:235 (PAEC/CHEM-101)
plastic—wood, radioinduced polymerization in, 21:19708
plastic—wood, radioinduced polymerization in, gamma, 22:19683
plastic—wood, radioinduced polymerization of, review on, 21:38991
plastic—wood, radioinduced polymerization of, review on γ, 23:24227
plastic—wood, radioinduced production of, review of, 22:108
plastics—wood, conference on, Sacramento, California, June 9, 1967, 22:42751
plastics—wood, mechanical properties of, 21:23908 (BNL-50042)
plastics—wood, mechanical properties of, produced by radioinduced polymerization, 24:41324
plastics—wood, physical properties of, 25:19299
plastics—wood, production in United Kingdom, 23:35126 (AERE-R-6090)
plastics—wood, properties of, 24:13939
plastics—wood, properties of, 24:9375

  plastics—wood, properties of composites of, prepared by radioinduced polymerization, 24:12492 (AERE-M-2269)
  plastics—wood, properties of radiation processed, mechanical and physical, 25:19298
  plastics—wood, properties of x-irradiated, 24:11622
  plastics—wood, properties of, produced by radioinduced polymerization, 25:51503 (A/CONF.49/P-647)
  plastics—wood, properties of, produced by radioinduced polymerization, 24:38918
  plastics—wood, properties of, produced by radioinduced polymerization, 25:41843(R) (ORO-2945-10)
  plastics—wood, properties of, produced by radioinduced polymerization mechanical and physical, 24:19524
  plastics—wood, radiation curing of, 24:36263(R) (AE-397)
  plastics—wood, radiation processing of, economics of, 24:8213(T) (AECL-3327)
  plastics—wood, radiation processing of, review on, 22:35866
  plastics—wood, radioinduced formation of, 22:25371 (CONF-660706-, pp 195-9)
  plastics—wood, radioinduced formation of, 21:38986
  plastics—wood, radioinduced formation of, 22:26097 (CONF-660706)
  plastics—wood, radioinduced formation of, 22:42751
  plastics—wood, radioinduced formation of, γ, 23:2334
  plastics—wood, radioinduced polymerization in, review on, 23:38004
  plastics—wood, radioinduced polymerization of composites of, properties of products from, 24:3053 (STI/PUB-209)
  plastics—wood, radioinduced polymerization of, developments and economics for, 23:47713 (STI/PUB-202)
  plastics—wood, radioinduced polymerization of, review of methods for, 24:19174
  plastics—wood, radioinduced polymerization of, use of large radiation sources for, 24:20960
  plastics—wood, radioinduced production of, 24:13937
  plastics—wood, radioinduced production of, 24:13939
  plastics—wood, radioinduced production of, 24:13940
  plastics—wood, radioinduced production of composite, survey of, 22:8854
  plastics—wood, structural properties of, produced by radioinduced polymerization, 25:2238
PLASTIDS
  radioinduced abnormalities of, in Pteris vittata following exposure of dry dormant spores, x, 23:35691
PLASTOQUINONE
  effects on photosynthesis in chloroplasts of algae and spinach, 21:30781
  radiation effects on, relation of, to photosynthesis, 23:7933(R) (RLO-1783-18)
PLATES
    see also Armor Plate
  aerodynamic motion of rectangular, during free-fall drop tests, 22:51193 (SC-RR-68-132)
  attenuation of shock waves in tubes by orifice, 21:19878 (ORNL-TM-1750)
  autorotation of simple-shaped flat, under subsonic and hypersonic conditions, (E), 23:21861 (SC-RR-69-159)
  beam scattering by border of, at normal incidence, 22:18052
  bending of circular, under symmetrical loads and temperatures, mathematical methods for solution of, 22:10154 (TID-23984)
  bending of circular, under symmetrical variable load, (T), 22:27969
  bending of circular, under uniform load on concentric circle, (T), 22:27968
  bending of rectangular, effects of circular holes on thermal, 25:16505
  bending of square-pattern perforated, field equation solution for elastic constants in, 24:36902
  bending with transverse shear deformation, finite element method for analysis of, 25:18575
  boiling burnout in flat metal, nonhydrodynamic factors affecting, 21:26054
  book: Stresses in Shells of Revolution, 23:13917
  book:Tables for Calculating Nonstationary Temperatures of Plane Bodies During Heating by Irradiation, 25:56267
  bowing of nonhomogeneous, from nonuniform heating, (T), 22:30368
  buckling of thin, by continuously distributed dislocations, 24:18821 (COO-2034-3)
  calibration of surface, Wang 700A program for, 25:46382 (MHSMP-71-9)
  charged-particle energy losses in transit through three-layer, 22:24769
  charged-particle energy losses in two-layer, (T), 21:23319
  charged-particle interactions with many-layer, electromagnetic fields from, (T), 23:10787
  charged-particle transmission through arbitrarily thick, energy losses of relativistic, (T), 24:5223
  convection velocity and temperature profiles for heated, in liquid metals, 25:15826(R) (RLO-2227-T-4-1)
  crack arrest in transversely loaded elastic, 25:8184 (UCRL-72335)
  crack detection in metal pressure, acoustic emission method for, 24:13562(R) (BNWL-1266)
  creep in large thin, with central circular hole, effects of loading on, 24:34885
  critical heat flux in flat metal, in water at saturation temperature, 21:26054
  deflection and deformation of circular, effect of impulse loading on, 21:40750 (SC-RR-67-532)
  deflection of beam-reinforced, under load, determination of, 24:44218
  deflection of highly prestressed thin annular, use of boundary layer technique to determine, 21:26126 (SC-TM-67-307)
  deflections and stresses in perforated circular, effect of uniform lateral pressure on, 22:14618
  deformation and strain on heat exchanger and reactor, methods of calculations for, 21:31011(T) (WAPD-Trans-55)
  deformation and stresses in perforated, mathematical analysis of, 21:23754
  deformation from spontaneous expansion and thermal cycling, development of strut theory for defining, 25:26415 (TRG-Report-2121)
  deformation of circular, under uniform pressure, parametric study of effects of pulse shape on plastic, 25:318
  deformation of thin, by stress waves in confined plasmas, 24:24967 (SC-CR-69-3306)
  design and performance of buffer and flyer, for use with cylindrical targets, 21:23805 (SCL-CR-66-74)
  design for heat exchanger tube bundles, 23:13916(P)
  design of circular, stress analysis in, 22:10154 (TID-23984)
  design of guide, for cyclone steam separators, 21:30588(R) (EURAEC-1787)
  design to increase heat flux in boiling liquid cooled reactors, 23:13918(P)
  dynamic behavior of circular, with external and internal damping, 21:8119 (ANL-7239)
  elastic properties of square pitch perforated, effect of uniform lateral pressure on, 22:14618
  electrostatics of conductive spheres on charged conductive planes, 22:7404 (ORNL-4193)
  fabrication of metal, with small holes, electrolytic method for, 22:10166(T) (ORNL-tr-1827)
  fabrication of perforated, for use in reactor vessels, 21:39099(P)
  fabrication of porous metallic, 21:24710
  fabrication of tube, for reactor pressure vessels, 22:10474(P)
  failure pressure limits for flat metal, in flowing air and helium, (E/T), 22:42389 (N-68-16227)
  film boiling on vertical and horizontal, effect of thermal radiation on, 21:39124
  flow between parallel, magnetohydrodynamic effects on heat transfer in channel entrance of fluids with low Prandtl numbers, (T), 21:43876 (NP-17033)
  flow of conducting fluid between two parallel, unsteady Couette, (T), 23:6907
  flow past semi-infinate flat, MHD, (T), 22:2911
  flow past thin, with inwardly diffusing magnetic field, MHD, (T), 22:2912
  fluid flow between oscillating flat, convective MHD, 21:18501
  fluid flow between rotating coaxial disks, MHD, (E/T), 23:51428
  fluid flow over accelerated infinite flat, velocity distribution for MHD, (T), 22:17448
  fluid flow past flat, MHD, (E/T), 21:20834
  fluid flow past flat, vortex formation and resistance in unsteady, (E/T), 21:22091 (SC-DC-67-1414)
  fluid flow past moving infinite flat, in transverse magnetic field, (T), 25:9280
  fracture mechanics of, developments in three-dimensional elastic—plastic stress analysis for, 25:55515
  fracture of graphite sealing, in induction furnace, design of striker system for, 23:2488(P)
  fragmentation of loaded homogeneous brittle, subjected to dynamic loads, 21:30646 (NP-16806)
  gamma penetration of slabs, check of calculational models for, 23:32551 (ORNL-TM-2520)
  gamma penetration through, calculation by invariant imbedding, 22:24372
  gamma slant penetration of concrete slab, calculation of 1.25-MeV, 22:31890
  gamma transmission dose buildup factor for stratified slabs, (T), 24:10599
  gamma transport in, computer program for solving one-dimensional Boltzmann equation for, (T), 25:14863 (CEA-N-1358)
  heat transfer between vertical parallel, mathematical model and correlations of free convection, 25:48717
  heat transfer for forced laminar or turbulent flow along semi-infinite or between parallel, calculations for, 23:40942 (CEA-R-3600)
  heat transfer for turbulent flow over flat, analysis of transient, (E/T), 22:6536
  heat transfer from flat, with longitudinal laminar flow, 24:16779
  heat transfer in thin, numerical analysis of steady state, 21:28151 (K-1695)
  heat transfer in, characteristics in random temperature field in, 22:21277
  heating by irradiation, tables for transient temperatures from, 25:56267
  heating of leading edges of flat, effects of induced pressure on, 22:37929 (SC-RR-68-133)
  inspection of, equipment and method for radiographic, 22:19083(P)
  jet force effects on, displacement and strain in, (E), 25:54304
  joints between nozzles and flat, finite element method for calculating stresses in, 24:36533
  liquid flow between parallel, viscous MHD, (T), 23:51422
  magnetogasdynamic boundary layer on flat, heat-transfer analysis of, 22:11306
  magnetohydrodynamic boundary layer fluctuations on magnetized, with oscillating field, (T), 21:27046
  magnetohydrodynamic boundary layer in rotating flow on disk in perpendicular field, (T), 23:51437
  magnetohydrodynamic elastico-viscous flow past porous, free-convection, 21:13424
  magnetohydrodynamic fluid flow over two-dimensional, (T), 21:41883
  magnetohydrodynamic vortex flow of fluid confined between two flat, analysis of, (T), 21:7059 (NASA-CR-646)
  neutron attenuation in hydrogenous, tissue-equivalent proportional-counter measurements of, (E), 25:48903 (CONF-710402-(Vol.2), pp I.172-81)
  neutron attenuation in, computer program for calculating resonance absorption, cross sections, and foil reaction rates, (T), 25:12336 (ANL-7645)
  neutron coherent double scattering in crystalline, (T), 25:9963
  neutron diffusion in, (T), 25:3539
  neutron diffusion in, computer program for solving one-dimensional, (T), 25:12335 (AECL-3671)
  neutron diffusion theory for thin, formulation using Markov matrix method, 21:21385
  neutron double-scattering in, computer program for calculating second-order corrections to, (T), 25:33948 (ANL-7780)
  neutron flux plane determination in continuous, empirical method for, 21:5610 (EIR-96)
  neutron propagation in, transverse, (T), 25:9961
  neutron transport in flat, boundary-sources method for solving Boltzmann's equation for, (T), 25:28160
  neutron transport in, computer program for calculating polyenergetic, (T), 25:14864 (CEA-N-1388)
  neutron transport in, computer program for solving one-dimensional Boltzmann equation for, (T), 25:14863 (CEA-N-1358)
  neutron transport in, criticality for energy-dependent, (T), 25:9960
  neutron transport in, numerical solution of linear integral Boltzmann equation for, (T), 25:18231
  neutron transport in, singular-eigenfunction calculation of, (T), 25:33951
  neutron transport in, solution of initial-value problem using normal-mode expansions, (T), 25:5501
  neutron transport in, two-group analysis of critical problem for, (T), 25:14867
  neutron transport with anisotropic scattering in, calculations by transfer-matrix method of one-speed, (T), 25:17668
  performance of magnetically driven flyer, effect of varying capacitor bank parameters on, 22:12189 (SCL-DR-67-116)
  photon transport in thin-slab geometry, successive-scatter approximation of, 22:31893
  photon transport in, numerical solution of linear integral Boltzmann equation for, (T), 25:18231
  plasticity of circular, under uniform pressure, analysis of dynamic, 25:18557 (ANL-7677)
  radiating gas flow over flat, heat transfer in, 21:43183
  radiation transport in, (T), 25:7520
  radioactive molecule deposition from stagnant gas on, analysis of, 21:1331(R) (TID-23351)
  rigidity of perforated metallic, analysis of, 21:21808
  rigidity of perforated, analysis, 21:23753
  rotation in wind tunnels, correlation for steady-state tip and aspect ratios, 24:7592(R) (SC-PR-69-672)
  rotation of rectangular flat, subsonic speed drop tests of air-induced, 21:36300 (SC-DC-67-1972)
  sodium flow over, drag in MHD, 22:9151
  stability in fluid flow, effect of hydrodynamic forces on, 21:24161(T) (WAPD-Trans-51)
  stability of flat, aerodynamic testing of, 22:18666 (SC-RR-67-778)
  stability of flat, subsonic wind tunnel testing of dynamic, 22:18664 (SC-DC-67-1951)
  stability of rigid, effects of parallel fluid flow on, (E/T), 24:52882 (ANL-7685, pp 321-34)
  standard for ultrasonic shear-wave testing of, 25:42023 (RDT-F-3-4-T)
  strength of ductile circular, with reinforced circular openings, calculation and measurement of burst, 24:25712
  strength of fibre-reinforced laminated orthotropic, under axial and shear loads, bending and twisting moments, and thermal loads, 24:41143 (SCL-DR-69-115)
  stress analysis of involute, one- and two-dimensional transient, (T), 22:24925(R) (ANL-7427)
  stress analysis of perforated, 24:44214(R) (ORNL-4576)
  stress analysis of perforated, computer program for, 22:28031 (GEMP-598)
  stress analysis of, use of trapezoidal and triangular plate elements in, 21:34187 (GEAP-5471)
  stress analysis on infinite, under equal bi-axial stress containing two circular holes of unequal radii, method of third approximation for, 21:32072 (TID-23783)
  stress distribution in two interconnected multiregion, matrix-inversion analysis of, (E/T), 22:10072 (ANL-7162)
  stress in infinite flat, with instantaneous and transient internal heating, determination of uncoupled dynamic thermal, 23:33303
  stress production in elastic, effects of temperature changes on transient thermal, 23:2480
  stresses around circular holes in, approximate method for analysis of, 24:41573 (DP-Report-344)
  stresses around holes in flat metallic, analysis of, 25:48765(R) (ORNL-4693)
  structure of intermediate-state superconducting, description of dynamic lamellar, 22:2990
  supersonic flow of shock-heated air over, boundary-layer ion-density profiles in, (E), 21:8521
  temperature at surface of strip-heated flat, variations in, (T), 22:6535
  temperature on surface of flat, effects of convective cooling and spot insulation on, 23:4777
  temperatures in dual-layered, computer calculation of nuclear explosion-induced, 22:2259(R) (AD-646858)
  thermal stress distribution in, effects of circular holes on, 25:44500
  thermal stress in composite, analysis of, 22:28799
  thermal stresses in heat generating, transient, 21:31897 (ANL-7294)
  thermal stresses in infinite, dimensionless equations and computer program for calculation of, 24:48218 (ZJE-63)
  thermal stresses in U-tube-sheet-type, analysis of, 23:38141 (KAPL-P-3837)
  thickness measurements of moving, theory of operation of radiometric gages for, 25:18825

- thickness measurements of rolled, gamma radiometric gage for, 25:15960
- ultrasonic wave attenuation in, photoelastic studies of, 21:12608 (ORNL-TM-1671)
- use of explosively accelerated metal, for determination of metal melting by inspection of induced surface spray, 24:2912 (AWRE-O-56/69)
- vibration in reactors of flat, coolant flow induced, 22:7927
- welding on sealing surfaces in reactors, method for, 21:3474

PLATINATES
- see also Bromoplatinates
- see also Chloroplatinates
- see also Cyanoplatinates

PLATING
- (See also specific materials being plated or being deposited.)
- see also Coatings
- see also Diffusion Coatings
- see also Electrochemical Analysis
- see also Electrochemistry
- see also Electroplating
- see also Metal Spraying
- chemical methods of, development of, 21:20484
- development of nonelectrolytic chemical techniques for reactor materials, 21:40711
- development of nonelectrolytic, for reactor materials, review on, 24:44687
- mechanisms of chemical vapor, relations with ablation and combustion, 22:6959
- method for material deposition on substrates, ion, 23:35982 (MLM-1509)
- method for reactor materials, review of, 22:12956
- methods for aircraft maintenance and manufacture, review of selective, 23:51018
- methods for chemical, review on, 23:45992
- methods for chemical, review on, 23:41536
- methods for electronic materials, 22:34030
- methods for nuclear materials, nonelectric, 21:30306
- methods for reactor materials fabrication, review of, 22:217
- methods for reactor materials, review, 22:21676
- methods for reactor materials, review of, 23:20494
- methods of chemical vapor, 22:43636
- operation of device for, of radioactive materials, 21:28591(R) (NYO-2740-4)
- solutions for, determination of moisture in nonaqueous, 23:49692 (RFP-1297)
- thickness measurements by x-ray fluorescence and beta backscattering methods, statistical theory of design for, 23:50198 (UCRL-71605(Rev.1))

PLATINUM
- abundance in 46 Dra, (E), 24:44838
- abundance in Allende meteorite, neutron activation determination of, 24:6294
- abundance in Ap stars, (E), 24:51282
- abundance in photosphere, (E), 22:23934
- abundance on surfaces of peculiar A stars, (E/T), 25:58462
- alpha decay of, half-lives, Q values, reduced widths, and spectra from, (E), 25:28302 (CERN-70-30(Vol.1), pp 523-31)
- alpha inelastic scattering at 42 to 90 MeV, angular distributions and energy spectra from, (E/T), 25:12604
- alpha particle channeling in foils of, use in defect studies, 22:41681
- alpha particle channeling in, study of lattice defects by, (E), 23:16870 (CEA-R-3606)
- alpha reactions (α,He-3) at 42 to 90 MeV, angular distributions and energy spectra from, (E/T), 25:12604
- analysis for carbon by photon activation and radiochemical separation, 24:46198(R) (NBS-TN-508)
- analysis for copper, lead, nickel, palladium, and silver simultaneously by isotope dilution and spark source mass spectrometry, 23:28714
- analysis for gold by neutron activation, 23:35025 (NBS-TN-458)
- analysis for gold, iridium, osmium, and ruthenium by neutron activation methods, 22:27570
- analysis for impurities by Auger electron spectroscopy, 24:22583
- analysis for iridium, palladium, and silver by neutron activation methods, 22:33276
- analysis for iridium, palladium, and silver, activation, 21:40772 (IS-1600, Paper 3)
- analysis for paladium, use of x-ray detector in activation, 24:41655 (IRI-133-70-1)
- analysis for palladium by neutron activation and radiochemical separation, 24:36184
- analysis for trace amounts of impurities, spectrochemical methods for, 24:7409
- analysis for trace amounts of osmium and ruthenium by neutron activation and radiochemical separation, 25:51409 (IS-T-458)
- analysis for trace amounts of palladium by isotope dilution, 25:28981
- analysis for trace impurities by neutron activation following separation by ion exchange chromatography, 25:29023
- analysis for zirconium using Morin, spectrophotometric, 23:21645
- analysis of crude samples of, for palladium, platinum, and rhodium by neutron activation and gamma spectrometry, 23:40594
- analysis of electrodes of, for surface-adsorbed oxygen by mass spectrometry, 24:20727(R) (MIT-905-154)
- analysis of high-purity, by neutron activation methods, 22:7992(R) (NBS-TN-428)
- analysis of high-purity, for nickel by neutron activation methods, 24:11473
- analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
- analysis of standard, by activation methods, 24:98
- analysis of surfaces of disks of, for carbon, oxygen, and aluminum by helium-3 activation and prompt γ measurement, 24:39
- analysis of, for trace impurities by neutron activation methods, 21:10272
- annealing of irradiated, analysis of mechanisms and stages in, 23:10235 (COO-1198-585)
- argon-beam reactions with heated, time-of-flight measurements for, (E), 23:30300
- argon-ion reactions at 30 keV with surfaces of, charge states and kinetic energies of scattered and recoil ions from, (E), 25:55818
- argon-ion reactions at 40 keV with, yields of positive ions from, (E), 24:42517
- atomic spectra of, isotope shifts and hyperfine structure in, 25:41819
- atomic weight of, based on carbon-12 = 12, 22:42698
- Auger electron spectra, 24:25950
- binding energy for, in aluminum—zinc alloy, solute-vacancy, 24:25746
- bonding to tantalum—tungsten alloys, development of methods for, 25:2672 (ORNL-4570, pp 112-15)
- book: Analytical Chemistry of the Noble Metals, 24:7405
- book: Fundamentals of Metallurgy. Vol. 5. Minor, Noble, and Radioactive Metals. Transuranic Elements, 23:26986
- boron-12 nuclear recoil polarization relaxation in foils of, (E), 23:1878(R) (NYO-2028-3)
- boron-12 spin-lattice relaxation times implanted in, (E), 24:52459
- bremsstrahlung spectra from beta-excited, (E), 22:13248
- carbon-12 reactions (C-12,4n) and (C-12,5n) at 82 MeV with natural, gamma spectra from, (E), 25:10027 (JINR-E6-5379)
- charged-particle reactions at $\gamma = 1.1$ to $\gamma = 1000$, calculation of transient radiation characteristics in optical region from, 23:44617
- chemistry of surfaces of catalysts of, use of radiochemical methods for studying, 21:19716
- chlorine-ion reactions with, electron emission from, 23:20665
- chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
- chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
- chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
- chromatographic behavior in hydrochloric acid—thiocyanate mixture on Amberlite LA-2, 25:18337
- chromatographic behavior of, effects of trioctylamine in halide solutions on, 21:5880
- chromatographic behavior of, reversed-phase extraction, 25:37478
- cleaning for use in large radioisotope heat source fuel capsules, specifications for, 22:33603 (AI-AEC-12677)
- compatibility of foil insulation of, with Air—Vac thermoelectric converter components at 1000 to 1100°C, 24:36948(R) (ALO-(2510)-8)
- compatibility of foils of, with germanium silicide at high temperatures, 24:44776(R) (ALO-2510-9)
- compatibility of fuel capsules of, with plutonium dioxide at 1000°C, 25:44544(R) (MLM-1817)
- compatibility with 304L stainless steel and rhenium at 1100°C, 21:36782 (BNWL-398)
- compatibility with Air-Vac thermoelectric materials at 1000°C, 25:6898(R) (ALO-2510-10)
- compatibility with plutonium dioxide at 1250 to 1500°C, 24:46767(R) (BMI-1860)
- compatibility with plutonium-238 dioxide powder and spheres at 1200°C, 25:2663 (MLM-1684)
- compatibility with plutonium-238 dioxide powder at 1200°C in presence of tantalum—tungsten alloy, 25:2663 (MLM-1684)
- compatibility with plutonium-238 dioxide spheres at 1200°C in helium—hydrogen atmosphere, 25:2663 (MLM-1684)
- compatibility with plutonium-238 dioxide spheres at 1200°C in presence of molybdenum, tantalum, or TZM, 25:2663 (MLM-1684)
- compatibility with plutonium-238-dioxide to 1900°C, effects of atmosphere, molybdenum, and tantalum on, 24:32498
- compatibility with rhenium at 1100°C, 21:36782 (BNWL-398)
- compatibility with rhenium—tungsten alloy at 1100°C, 21:36782 (BNWL-398)
- complexes with 2,4-pentanedione, radiation effects on reactions of recoils from neutron, 25:57489
- complexes with 3a,4,7,7a-tetrahydro-4,7-methanoindene, deuterium exchange in, NMR spectral studies on, 24:18945
- complexes with 4-(2-thiazolylazo)resorcinol, stability constants for, 21:34267
- complexes with 8-quinolinol, structure of, NMR spectral studies on, 25:4081
- complexes with ammonia and uranium oxalate, preparation of, 21:32174
- complexes with bromine and diethylenetriamine, bromine-82 exchange between, and bromide ions, effects of tetrabromoplatinate on, 21:23880
- complexes with bromine, bromine-82 exchange between, and bromide ions, effects of bromo(diethylenetriamine) platinum complex on, 21:23880
- complexes with bromo- or chlorobisacetylacetone, reactions with bivalent metal salts, 21:3044
- complexes with β-ketoenols, preparation and properties of, review of, 22:2061
- complexes with dimethylglyoxime, spectra of hydroxyl stretching frequencies in, infrared, 21:40772 (IS-1600, Paper 3)
- complexes with mesityl oxide, preparation of, 21:159
- complexes with organic compounds, tables of thermodynamic stability constants for, 22:58 (UCRL-50200)
- complexes, radiation effects on, production of carrier-free platinum-197g by neutron, 23:9425 (TID-24870)
- complexes, radiolysis of solutions of, pulse, 22:25433
- complexes, reactions of, with nucleophiles, rate constants for, 21:35913(R) (COO-1087-104)
- complexes, separation by paper and cellulose chromatography, 23:9425 (TID-24870)
- compounds of, mixed valence chemistry of, review on, 24:7440
- compounds with electropositive metals, formation of intermetallic, 25:54534 (ORNL-4717, pp 43-56)
- conductivity at 80 to 1900°K, electric and thermal, 25:55523
- coordination compounds of, chlorine isotope exchange between potassium chloride and, cis- and trans-effect in, 23:174
- corrosion by acids, bases, chlorine, and oxygen, analytical significance of, 24:8066
- corrosion by aqueous lithium fluoride—lithium hydroxide solution at 800°C, 21:43559
- corrosion by feed solution in radioactive waste phosphate glass fixation process, 23:2053(R) (BNWL-885)
- corrosion by fused sodium fluoride—uranium tetrafluoride eutectic, 22:15139 (AWRE-R-3/63)
- corrosion by organic acids, 25:6836
- corrosion by oxygen difluoride at cryogenic temperatures, 21:32828
- corrosion by Purex waste, effects of lead vapor phase on, 23:544 (BNWL-824)
- corrosion of soot-coated, by fused sodium fluoride—uranium tetrafluoride eutectic, 22:15139 (AWRE-R-3/63)
- corrosion of, effect of Purex waste (PW-2) melt on, 21:28182 (BNWL-410)
- corrosion of, effects of radiation and irradiated solutions on electrochemical, (E), 22:28735 (EURAEC-2010)
- creep at 1200 to 1250°C, 21:35701(R) (BNL-50023)
- crystal lattice vibrations from inelastic neutron scattering, (E), 22:26764 (SGAE-PH-60/1967)
- crystal structure and purity of floating zone melted, 23:12288
- crystal structure of low-index surfaces of, low-energy electron diffraction study of, 21:41603 (UCRL-17549)
- crystal structure of, vacancy formation in, 21:28776
- crystal structure vacancy formation and migration energies in, effects of Debye temperature on, 22:17119
- Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
- decontamination of plates of, from plutonium-239 by immersion in concentrated hydrochloric acid, 22:14574
- defect structure from rare-gas diffusion, 21:44186
- defects in quenched, field ion microscopy and electrical resistivity study of vacancy, 24:27801(R) (NYO-3504-.46)
- defects in, low-temperature irradiation facility for detection of, 23:35362 (JUL-579-FN)
- deposition on glass by sputtering, 21:26747(R) (NASA-CR-54358)
- deposition on Hastelloy C capsules by electroplating, effects of heat treatment on, 21:22849 (NUMEC-3731-4.5-4)
- deposition on Magnox fuel cans with, to prevent plutonium diffusion, 21:38780(P)
- deposition on spherical fuel elements to prevent fission gas escape, 21:38789(P)
- deposition on tungsten surfaces, mechanisms of vapor, 25:29850
- detection in low-energy cosmic radiation, (E), 25:19525
- detection in spectrum of 73 Dra, (E), 24:12533
- determination as impurity in thorium and thorium dioxide, spectrographic, 22:1994
- determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
- determination by activation and radiochemical separation process, 25:31858
- determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
- determination by atomic absorption in nitrous oxide—acetylene flame, effects of ammonium fluoride on, 24:38739
- determination by atomic absorption spectrometry, 24:38736
- determination by atomic absorption spectrophotometry using lens masks, 25:15495
- determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
- determination by atomic-absorption spectroscopy using induction plasma, 22:1985
- determination by differential spectrophotometry, 24:38732
- determination by electroanalytical methods, review of, 23:17334
- determination by emission of positive secondary ions from ion bombardment, mass-spectrometric, 21:27908
- determination by neutron activation, 25:44343
- determination by neutron activation methods, 23:2226
- determination by neutron activation methods, 24:2158
- determination by neutron activation methods using californium-252 as neutron source, 24:16473
- determination by neutron activation methods using characteristic x rays, 23:13677
- determination by neutron activation using pulsed reactors, 23:35032
- determination by nuclear resonance scattering of gamma rays, 25:37327
- determination by paper chromatography using phenylbenzohydroxamic acid, 21:23849
- determination by photon activation methods, 22:27589
- determination by radial paper chromatography and spectrophotometry, 25:35
- determination by spectrophotometry, effects of oxidation state on, 23:19627
- determination by thermal neutron activation method including radiochemical separation by exchange with mercury, 22:27575
- determination by x ray spectrography, 25:41736
- determination by x-ray emission using neutron reactions with boron-10 as excitation source, 23:11417
- determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)

determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
determination in alloys and metals, spectrochemical methods for, 24:7409
determination in antimony by chemico-spectral method, 23:24071
determination in biological materials and organic compounds by neutron activation and radiochemical separation, 25:15531
determination in blood and tissues of non-tumored and tumored Swiss white mice by neutron activation, radiochemical separation, and γ spectrometry, 25:41762
determination in carbon powder, improvement in sensitivity of spectrographic, 25:37298
determination in carbonaceous and enstatite chondrites, activation, 22:22
determination in doped spinel laser crystals by neutron activation and γ spectrometry, 24:171
determination in fish and tea by neutron activation and radiochemical separation, 23:4547
determination in gallium by neutron activation methods, 22:42614
determination in geochemical samples by neutron activation, 25:54484
determination in geological sample by neutron activation and radiochemical separations, 25:54485
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in lead beads, matte, and platinum-bearing ores by neutron activation and γ spectrometry, 25:54487
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in meteorites by neutron activation and γ spectrometry, 24:50357(R) (ORO-2670-40)
determination in meteorites, silicate rocks, and sulfide ores by neutron activation and radiochemical separation, 23:11467
determination in minerals by spectroscopy, 24:41198
determination in mixture with cerium and ruthenium by spectrophotometry, 21:40772 (IS-1600, Paper 3)
determination in palladium by neutron activation and radiochemical separation, 23:13686
determination in pigments from ancient murals by neutron activation, 25:2133
determination in plutonium alloys, 21:35895
determination in rhodium powder by neutron activation and radiochemical separation, 23:13687
determination in rocks by neutron activation methods, 21:32121
determination in selenium by neutron activation and radiochemical separations, 23:35050
determination in selenium by neutron activation and radiochemical separation, 24:5643
determination in spark discharges, limits and sensitivity for spectroscopic, 21:40772 (IS-1600, Paper 3)
determination in tellurium, spectrochemical, 25:31819
determination in thallium by neutron activation and solvent extraction separation, 23:4535
determination in trichloromethylsilane by activation—extraction method, 21:35854
determination in valve grids of rhenium and molybdenum, tantalum, or tungsten, activation, 23:83
determination in various materials by selective extraction and activation methods, 22:14454
determination in various materials by spectrographic method, 22:48810 (AERE-R-5799)
determination of trace amounts of, by high-current impulse argon arc method, spectrographic, 22:40012
determination of trace amounts of, by inverse voltammetry, 24:41203
determination of trace amounts of, by neutron activation methods, 22:4058
determination of trace amounts of, by neutron activation and tracer methods, 21:10272
determination of trace amounts of, evaluation of methods for, 23:47382
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in standard rocks by neutron activation following fire-assay concentration, 25:29022
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of trace, in high-purity iron by neutron activation methods, 23:2236
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in alloys and metals by gas chromatography, 21:2947
determination of, in meteorites by neutron activation methods, 21:4448
determination of, in precious metal scraps, activation, 21:5834 (IA-1082, pp 77-202)
determination of, review on methods and reagents for gravimetric, 24:7406
determination of, review on methods and reagents for spectrophotometric, 24:7408
determination of, review on methods and reagents for volumetric, 24:7407
determination of, review on methods for, 24:7492
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination simultaneously with palladium and rhodium in crude platinum samples by neutron activation and gamma spectrometry, 23:40594
determination using hydroxycoumarins, 23:2190
deuterium exchange with cyclohexane over evaporated films of, 21:15911
deuterium exchange with methane on surface of, correlation of catalytic activity and chemisorbed radicals in, 23:13707
deuterium-beam scattering from graphite overlayers on single crystals of, (E), 25:16753
deuterium-molecule scattering by (111) surfaces of, effects of surface features on, (E), 24:48998
deuteron attenuation measurements at 5 to 12 MeV in, 21:13377
deuteron reactions (d,np) at 53.8 MeV, neutron yields from, (E), 21:38371
deuteron reactions (d,pγ) at 12 MeV, p—γ coincidence spectra for, (E), 23:34776 (ANL-7282, pp 398-405)
deuteron reactions at 50 MeV, neutron spectrum from breakup, (E), 21:29913 (KFK-504)
diffusion in quartz tube with temperature gradient, 24:2285
diffusion of actinides in, at high temperatures, 25:45113 (EUR-4325)
diffusion of deuterium and hydrogen in monocrystalline, at 350 to 670°C, 22:35813
diffusion of deuterium and hydrogen in monocrystalline, isotope effects in, 23:210
diffusion of hydrogen in, at 25 to 80°C, electrochemical method for measurement of, 24:23466
dissolution of, by ac electrolysis, effects of variables on, 21:10343
distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
distribution between Sephadex ion exchange resins and hydrochloric acid—sodium chloride solutions, 24:180 (ORNL-4437, pp 60-86)
distribution coefficients for, in hydrochloric acid solution on Amberlite CG4B, 22:40192
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution on thin-layer DEAE-cellulose in organic solvent—thiocyanic acid mixture, chromatographic, 25:6417
effects as catalyst on hydrogenation of unsaturated carbonyl compounds, 24:31313
effects of electrochemical activation on electrodes of, 22:37707 (BNL-50082, pp 27-39)
effects of electrodes of, on deuterium separation factor in hydrogen electrode reactions, 22:14499
effects of enclosed crystals of, on etching of beryllia, 21:34968
effects of evaporated films of, on exchange reactions between deuterium and cyclopropane or methylcyclopropane, 21:45105
effects of film coatings of, oxidation of zirconium, 22:21667
effects of films of, on deuterium exchange with hydrogen in certain butylbenzenes and butyltoluenes, 21:12418
effects of surface state of electrodes of, on oxidation studies on metals, 21:14178(R) (EURAEC-1294)
effects of, on deuteration and deuterogenation of naphthalene and octalins, 21:12424
effects of, on hydrogenation of propene with deuterium, isotopic exchange in catalytic, 21:5869
effects of, on radioinduced conversion of methanol and cyclohexane, 21:12476
effects of, on reaction between deuterium and anisole, 21:10351
effects on carbon deposition from carbon monoxide—hydrogen mixture onto solid surfaces, catalytic, 24:19447
effects on colorimetric determination of gold, 25:34521
effects on corrosion of iron and low-alloy and rimmed steels by carbon dioxide, 22:52135
effects on corrosion of stainless steel by superheated steam, 21:30954(R) (EURAEC-1749)
effects on corrosion resistance of 18-8 stainless steel, 21:30955(R) (EURAEC-1804)
effects on determination of tantalum and tungsten, 23:12 (LA-4007)
effects on determination of tellurium in copper and nickel by polarography, 23:45193
effects on determination of trace amounts of rhenium by thiocyanate—stannous chloride method, 25:2102
effects on deuterium exchange between benzene and heavy water, catalytic, 22:27649
effects on deuterium exchange in propene, catalytic, 25:8258
effects on deuterium exchange reactions with organic compounds, 22:35819
effects on deuterium exchange with cycloalkanes, mechanism of catalytic, 23:13709
effects on deuterium self-exchange reactions in labeled toluene, catalytic, 22:33340
effects on direct titrimetric determination of molybdenum using ceric sulfate, 22:4025
effects on DNA synthesis in cultured human cells inhibitory, 23:29344(R) (COO-1704-6)
effects on exchange between molecular deuterium and hydrogen in pyridine, catalytic, 25:48511
effects on gamma radiolysis of nitrous oxide, 21:23931
effects on gravimetric determination of mercury using 2-aminobenzothiazole, 25:34520
effects on lead-210 exchange between chlorotriphenyllead and hexaphenyldilead, 23:156
effects on melting point and transformation temperature of praseodymium, 24:17308 (IS-T-328)
effects on mitosis in Escherichia coli, 22:23397(R) (COO-1704-4)
effects on oxidation of zirconium incorporated in zirconium oxide ion-conducting coating, 23:973
effects on photometric determination of antimony following solvent extraction using TBP, 25:34512
effects on photometric determination of molybdenum as extracted dithiol complexes, 24:38717
effects on properties and sintering of tungsten at 1000 to 2000°C, 25:55453
effects on reactions of benzene with hydrogen, catalytic, 23:11505
effects on reduction of ionic aquo- and hydroxopentaamminecobalt, oxygen isotopic fractionation in, 21:56
effects on reduction of neptunyl ions in acid solutions, 24:38848
effects on separation of molybdenum from rhenium by solvent extraction using isopentyl acetate, 25:21140
effects on separation of zirconium from plutonium by solvent extraction, 21:40763 (LA-3743)
effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
effects on spectrophotometric determination of titanium using sulfosalicylic acid, 22:16443
effects on spectrophotometric determination of trace amounts of ruthenium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:22975
effects on stainless steel corrosion by boiling aqueous magnesium chloride, 22:10912(R) (EURAEC-1932)
effects on thermal diffusion separation of deuterium from hydrogen by thermal diffusion in trennschaukel, 25:8422 (CU-755-7, Sect.5)
effects on titrimetric determination of lanthanum using sodium rhodizonate and ceric sulfate, 22:27555
effects on titrimetric determination of uranium, 22:22972
effects on titrimetric microdetermination of neodymium and samarium, 23:24086
effects on uv spectrophotometric determination of gallium in aqueous solutions, 25:2100
effects on x-ray fluorescence determination of scandium in uranium alloys using ion exchange method, 23:19647
electric conductivity and Hall constants of thin evaporated films of, 23:14920
electric conductivity measurements in air and carbon monoxide—carbon dioxide mixtures with electrodes of, on sintered Nernst mixture, 21:12419
electric conductivity of films of, sputtered at low voltages, 23:3051
electric conductivity of fine wires of, quenched in superfluid helium, 22:2608(R) (COO-1247-7)
electric conductivity of wires of, quenched in liquids, 23:5074(R) (COO-1247-12)
electric conductivity of wires of, quenched in water, kerosene, and superfluid helium, 23:5451 (COO-1247-13)
electric conductivity of wires of, size effects in temperature dependence of, 23:5074(R) (COO-1247-12)
electric conductivity of, below 20°K, 21:31359
electrochemical potential of, in irradiated water containing ceric and ferrous ions in presence of ethanol, 21:501(R) (EURAEC-1702)
electrochemistry of liquid and solid, in molten sodium hydroxide at 340°C, 21:15896
electrodeposition of, development of beta backscattering thickness gage for measuring, 21:6321
electron beam scattering by single-crystal surface of, properties of specular 10- to 500-eV, (E), 22:43937
electron binding energies in, (E), 22:13540 (UUIP-553)
electron energy-loss spectrum in, (E), 23:6886
electron reactions at 2.5 to 50 keV, atomic scattering factor for, 23:44153
electron reactions at 25 to 45 MeV with, effect of thickness on bremsstrahlung produced in, (E), 25:17658
electron reactions at 500 MeV with, cross sections for trident and pair production in, (E), 22:26593
electron reactions at 500 MeV, ionization chamber spectrometer and scintillation and Cherenkov counter study of trident, quartet, and bremsstrahlung production in, (E), 22:26547 (SLAC-PUB-330)
electron reactions with thick targets of, positron conversion yields for, (T), 24:13218 (FR-68-1/1)
electron scattering at 1 MeV, cross section for, 23:34733 (AD-681054)
electron scattering at 900 eV in foils of, spin polarization after elastic, (E), 21:28966
electron spectra of, Auger, (E), 21:4282
energy-level transitions in, electron spectra from Coster—Kronig and L-shell Auger, (T), 25:30261
erbium ESR in, 25:40828
fabrication of filters of, for californium ion exchange assembly, 25:2792 (ORNL-4570, pp 201-4)
fission fragment channeling in, 23:42437
fission of, lower limit on half-life for spontaneous, (E), 25:36779
fission product removal from surfaces of, using alkaline perhydrol solutions, 23:47395
fluorescence in hydrochloric acid medium at liquid-nitrogen temperature, 23:9376
friction and wear of, sliding against copper and iron rings under vacuum, 25:11413
fusion at less than or equal to 40 kbars, curve measurement using optical techniques for, 23:3053
gamma absorption from radium by, 21:45650
gamma attenuation coefficients for, least-squares calculations of, 24:35524
gamma elastic scattering cross sections, (T), 21:19312
gamma incoherent scattering in, (E), 22:9072
gamma nonresonant elastic scattering at low energy, (T), 21:15615 (CONF-660221-, pp 255-9)
gamma reactions (γ,f) below 260 MeV, angular distributions and cross sections for, (E), 21:17361
gamma reactions at 1 to 2 MeV, pair production cross sections from, (E/T), 25:33395
gamma scattering on K-shell electrons of, differential cross sections for, (E), 24:15129
gyromagnetic ratio of paramagnetic, (E), 25:40816
heat transfer from wires of, to carbon dioxide at near-critical pressure, measurement of free convection, 24:44193
heat transfer properties of zirconium dioxide-coated multifoil layers of, at 100 to 800°C, 23:11710(R) (ALO-3634-11)
helium-3 inelastic scattering at 50 and 75 MeV, angular distributions and energy spectra from, (E/T), 25:12604
helium-3 reactions (He-3,α) at 50 to 75 MeV, angular distributions and energy spectra from, (E/T), 25:12604
helium-atom scattering by (111) surfaces of, effects of surface features on, (E), 24:48998

helium-atom scattering by single crystals of, effects of surface structure on angular distributions from, (E), 25:24855
helium-ion reactions at 20 keV with, emission from excited diatomic helium molecules from, (E), 23:27332
inertial mass with respect to magnesium in centrifugal field, (E), 24:24436
ion exchange behavior in ethanol—hydrochloric acid, 23:19837
ion reactions at 5 to 50 keV with, apparent total ion scattering, secondary electron emission coefficients, and electron and ion energy distributions for, (E), 25:2884 (NP-18490)
ion reactions with, angular and energy distributions of charged particles emitted in, (E), 25:11675
ion scattering at 2 to 40 keV by, charge states and energy distributions from, (E), 24:10368
iron-57 lattice dynamics in, from Moessbauer fraction measurements, 22:46212
iron-57 Moessbauer fraction in, calculation of pressure dependence of, 24:51855
joining to tantalum—tungsten alloys, high-temperature vacuum method for, 24:36922 (ORNL-4520, pp 211-26)
Knight shift of platinum-195 in, effects of temperature on NMR spectra of, 22:50234
krypton depth distribution in, after sputtering at low energies, 22:52893
magnetic fields in ferromagnetic hosts at nuclei of, internal, (E), 21:44148 (COO-7-0422)
magnetic susceptibility of, (E), 23:23239 (CEA-R-3722)
meson (π) reactions with, 5g—4f x rays from, 22:47838
microscopy of, low-temperature field-ion, 23:30632 (COO-1198-622)
molecular beam scattering at 0.1 to 7.5 keV, target temperature effects on, (E), 22:19765
molecular beam scattering from, argon, helium, and neon, 22:982
molecule reactions at 0.5 to 12 keV, accommodation coefficients for molecular, 21:46157
neon-22 reactions (Ne-22,xn) with, excitation functions for, (E), 23:13274
neutron capture at 4 to 830 eV, γ spectra and resonance parameters for, (E), 24:52639
neutron capture by, γ spectra for thermal, (E), 23:5880
neutron capture by, γ spectra from thermal and resonance, (E), 23:23746(R) (AECL-3257)
neutron capture by, γ spectra from thermal, (E), 21:46728(T) (LA-tr-67-80)
neutron capture by, γ spectra from thermal, (E), 22:27156
neutron capture by, in acetylacetonate complexes, isotope effects on recoils from, 25:57489
neutron capture resonance integrals for, measurement using cadmium ratio method, (E), 21:34011
neutron differential elastic and inelastic scattering cross sections at 0.3 to 1.5 MeV, angular distributions for, (E/T), 22:5810 (ANL-7363)
neutron differential elastic and inelastic scattering cross sections for, angular distributions for fast, (E), 22:20578 (WASH-1079)
neutron elastic and inelastic scattering at 0.3 to 1.5 MeV, angular distributions for, (E), 22:27109
neutron inelastic scattering in, calculation of lattice dynamics using quasi-ion approximation, (T), 24:3824 (EUR-3621(Pt.2))
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron reactions with, activation in, 25:41920
neutron reactions with, production of platinum-197 by, 24:16592
neutron resonance parameters at 1 to 800 eV, (E), 21:35458 (CEA-R-3077)
neutron resonances at 4 to 830 eV, parameters for, (E), 23:40080
neutron resonances in, distribution of average spacings of, (E/T), 21:42612 (NP-16816)
neutron total cross sections at 0.1 to 0.6 MeV, (E), 21:25518 (WASH-1071)
nitrogen oxide molecular beam scattering from clean and carbon coated single crystals of, 25:57237 (LBL-133)
nuclear-magnetic-resonance spin echoes, 22:1347
optical absorption coefficient at 30 to 600 eV, 24:3468
oxidation at 25 to 750°C, effects of atomic oxygen on, 23:51003
oxidation states of, methods for determination of, 23:13645
performance as catalyst for BER core-gas recombination, 21:30269
performance in crucibles for radioactive waste processing, 23:6206
performance in pulse-wire experiments on pool boiling nucleation, 21:41134
performance of wire markers of, for cation diffusion in oxide surfaces on niobium, 22:739
phonon spectra, 24:9688
photoelectric work function of, (E), 25:17299
photofission at 300 to 1600 MeV, cross sections and fragment yields for, (E/T), 22:5856
photofission at 40 to 140 MeV, cross section for, (E), 23:37221
photofission cross section at 0.1 to 1.6 GeV, (E), 22:22586 (NP-17325)
photon cross sections at 280 keV, total, (E), 23:20694
photon incoherent scattering at 662 keV by K-shell electrons of, differential cross sections for, (E), 25:14410
photon reactions (γ,n) at 22 MeV, neutron angular distributions from, (E), 22:44656
photon reactions at 0.001 to 15.0 MeV, cross sections for, 21:17297 (UCRL-50178)
photon reactions at 50 to 412 keV with, total photoelectric cross sections for, 25:2905
photon reactions at 84 and 100 keV with, photoelectric cross sections for, (E), 23:20667
photon reactions at 84 to 320 keV with, angular distribution of K-shell electrons from, (E), 24:32612
photon reactions with, yields of x radiation from L_2 and L_3 subshells in, (E), 23:8476
polarization in potassium chloride at 800°C, 24:23427(T) (ANL-Trans-798)
polarization in potassium chloride at 800°C, 24:11502 (CEA-N-1148, pp 125-32)
positron annihilation radiation from, effects of electron irradiation and deformation on angular correlation of, 24:37212
positron scattering at 1 MeV, cross section for, 23:34733 (AD-681054)
preparation of foils of, by mechanical reduction using mallet and steel flat, 23:12286
preparation of radiation targets of, by argon ion sputtering, 25:59637 (CONF-711002-, pp 109-15)
production of particles of controlled size of, 22:35775(R) (NYO-1158-25)
properties as bath for vacuum fusion determination of oxygen in refractory metals, 23:21628
properties for container material in alkali pyrosulfate processing of carbide fuels, 25:55376 (CONF-690452-, Paper 9)
properties for use as capsule liner for thulium-170 oxide at 1000 to 2732°C, parametric studies of, 25:48738 (SNC-3693-1, Pt.3)
properties for use as electrode, effects of organic compounds on, 23:107 (RFP-1221)
properties for use as encapsulating material for californium-252 sources for neutron capture gamma-ray spectroscopy, 25:4772
properties for use as microelectrode in radiation chemistry, 21:40897
properties for use as protective coating on niobium and molybdenum alloys, 21:20469
properties for use as thermal insulation in Air—Vac thermoelectric converters, 24:36948(R) (ALO-(2510)-8)
properties for use in gamma thermometers, 22:43055
properties for use in pressure transducers, 25:42804(R) (LMEC-71-1)
properties for use in vacuum systems, 22:16828
properties of fission-induced, for use in industry, 24:36920
properties of, for electroreduction of uranium oxides at 1150 deg C, 21:48 (MCW-1500)
properties of, for use as fuel capsule cladding, 21:6148 (STL-517-0034(Vol.1))
properties of, mechanical and physical, 21:43616
proton attenuation measurements at 5 to 12 MeV in, 21:13377
proton differential elastic and inelastic scattering cross sections at 16 MeV, (E), 22:18304
proton elastic scattering at 5 MeV, search for Mott-Schwinger polarization in, (E), 25:53790
proton energy losses in, below 12 MeV mathematical analysis of data from, 23:20215 (MIT-952-5(Pt.1), pp 137-83)
proton reactions (p,n), (p,pn), and (p,2n) at 7.5 to 14 MeV, cross sections for, (E), 21:38363
proton reactions at 2.8 GeV, production of mesons (K_2^0) and γ radiation from, (E), 22:34856
proton reactions at 2.9 GeV, proton angular distributions and spectra from, (T), 21:46643(R) (ORNL-4134)
proton reactions at 3 GeV, neutron polarization from, 24:40257
proton reactions at 35 keV with, hydrogen-bond effects on, (E), 23:39331
purification of, use of activation analysis for evaluation of, 23:213 (IS-1900, Paper 3)
radiant energy spectral absorption and reflection of bulk, (T), 21:11473 (NASA-CR-693)
radiation damage and recovery, effects of defect doping on low-temperature neutron, (E), 22:3191
radiation damage at 90°K in, effects of impurities and vacancies on rate of electron, (E), 22:31933 (BNL-50083, pp 348-58)
radiation damage in foils of, effects of vacancies and impurities on 90°K electron, (E), 22:3195
radiation damage in, annealing of 90°K 3-MeV electron, 25:36306
radiation damage in, mechanism of lattice parameter changes from 3-MeV electron, (E/T), 23:27720
radiation damage in, MeV alpha-, proton-, deuteron-, and helium-3-beam, 25:7475(R) (RISO-215)
radiation effects at 4.5°K on defect production and thermal recovery of, electron, 23:36145 (JUL-577-FN)
radiation effects on annealing in, deuteron, 21:13221
radiation effects on catalytic and electrochemical properties of, neutron, 24:22719
radiation effects on corrosion of electrodes of, in acid and basic solutions for use in electrochemical studies, γ, 22:37775 (BNL-50082, pp 40-78)
radiation effects on crystal surfaces in, 45-keV argon ion and xenon ion, 24:25754
radiation effects on defects and hardening of, relations of annealing temperature with fast neutron, 25:16553
radiation effects on density and yield strength of, fast neutron, (E), 22:19575 (BNWL-455, Paper 5.1-10)
radiation effects on electric conductivity of pure, fast neutron, 24:25750 (ANL-7417, pp 111-24)
radiation effects on electric conductivity of thermocouple wires of, in-pile, 23:8148 (BMI-X-10246)
radiation effects on electric conductivity of, at low temperature, 21:11208 (ANL-7155, pp 167-289)
radiation effects on electric conductivity of, recovery in electron, 21:7885(R) (NAA-SR-12175)
radiation effects on electrochemical activity potential of, in-pile, 25:709
radiation effects on electrochemical behavior of, γ, 21:22894(R) (EURAEC-1784)
radiation effects on interstitials of, 22:712(R) (CU-3551-9)
radiation effects on low-temperature electric conductivity of, neutron, 21:31052 (ANL-7185)
radiation effects on shear modulus of, at 4°K, neutron, 25:29912
radiation effects on solubility of, in hydrochloric acid, 21:12285(R) (ORNL-4039)
radiation effects on stored energy in, at less than 40°K, 3 MeV electron, 25:13722 (JUL-658-FN)
radiation effects on structure of, fast-neutron, 21:31054(R) (BNWL-CC-1053)
radiation effects on uv reflectance of mirrors of, proton, 25:23936
radiation effects on volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
radiation effects on yield stress of, neutron, 21:43618 (BNL-11717)
radiation effects on, annealing effects on fast neutron, 22:15141 (BNL-50057, pp 79-100)
radiation effects on, deuteron, 22:8795
radiation effects on, dose dependence of Stage-III recovery from electron, (E), 23:42443
radiation effects on, relations with energy, 22:21735
radioinduced damage in, recovery of deuteron, 21:13642
radioinduced defects in crystals of, annealing effects on neutron, 22:2663 (CU-3551-7)
radioinduced defects in, annealing of fast-neutron, (E), 21:40073
radioinduced defects in, Debye—Waller factor in gold-197 Moessbauer study of neutron, 24:45368
radioinduced defects in, effects of plastic deformation and substitutional gold on production and recovery of deuteron, 22:31949
radioinduced defects in, effects of pre-irradiation treatments on production and recovery from deuteron, (E/T), 22:31928 (BNL-50083, pp 291-302)
radioinduced defects in, effects of preirradiation treatments on production and recovery of deuteron, (E), 22:46202
radioinduced defects in, field-ion microscopic study of 20- and 30-keV platinum-ion, 25:27866(R) (NYO-3504-56)
radioinduced defects in, low-temperature electron, (E), 21:16974
radioinduced defects in, processes in annealing of electron, (E), 24:30380
radioinduced defects in, rate of production of electron, review, 22:17820
radioinduced defects in, recovery from 10 to 300°K of electron, 21:16975
radioinduced electron emission from, low-energy electron and γ, (E), 25:22617
radioinduced Frenkel defects in, effects of gold dopant on annealing of electron, 25:56284 (JUL-731-FF)
radioinduced Frenkel defects in, spontaneous and subthreshold recombinations of 4.5°K electron, 24:30385
radioinduced Frenkel defects in, stored-energy-release study of 3-MeV electron-, (E), 25:3197
radioinduced interstitials in, removal of neutron, 21:3928
radioinduced point-defect clusters in, transmission electron microscopic study of neutron, 24:35530
radioinduced self-interstitial atoms in, long-range migration in stage I annealing of platinum-ion, 25:40784
radioinduced self-interstitial atoms in, long-range migration in Stage I annealing of 20- and 30-keV platinum-ion, 25:30649 (NYO-3504-57)
radioinduced void formation in microstructure of, fast neutron, 25:32751(R) (HEDL-TME-71-43)
radioinduced void formation in, effects of temperature on neutron, 25:47141 (BNWL-SA-3921)
radioinduced voids in foils of, at 450°C, fast neutron, 25:40076
rare earth diffusion out of, 22:29795
rare-gas-atom scattering at thermal energies by (111) surfaces of, (E), 25:11683
reactions of anodes of, in persulfate production, 22:7971(T) (BNL-tr-168)
reactions of aqueous, with alumina of high surface area, 22:4066(R) (COO-1354-13)
reactions of electrodes of, with ytterbium(II) in molten lithium chloride—potassium chloride, 23:33188
reactions of liquid, with transition metal carbides, 22:12287
reactions on surfaces of, electron diffraction studies on, 23:40616 (UCRL-18735, pp 5-80)
reactions with 8-aminoquinoline, effects of acetic acid, ammonia, hydrochloric acid, and sodium hydroxide solutions on, 24:16539
reactions with aluminum, magnesium, thorium, and zirconium and aluminum and zirconium oxides, 25:2160
reactions with carbides of cerium, erbium, and yttrium at 1000 to 1600°C, 25:24643
reactions with europium oxide at 1500°C, 24:36987 (UCRL-50886)
reactions with lanthanum carbides at 1000 to 1600°C, production of intermetallic compounds by, 25:69 (CONF-700403-(Vol.2), pp 588-97)
reactions with lithium hydrides under hydrogen at 800°C, 23:24182
reactions with oxides of aluminum, magnesium, thorium, and zirconium to 1700°C, compatibility and decomposition, 24:23524
reactions with refractory metals in diffusion couples, metallography of phases from, 25:8851 (ORNL-4600, pp 186-97)
reactions with rhenium and 304L stainless steel at 1100°C, 21:32858 (BNWL-421)
reactions with rhenium/tungsten couples at 1100°C, 21:32858 (BNWL-421)
reserves and stockpiling by U.S. government, 23:24785
rubidium atom reactions on surfaces of, ionization coefficients for, (E), 22:52496
separation by thin-layer chromatography using slightly basic ion exchanger, effects of organic solvents on, 24:16661

separation from acetone—hydrochloric acid solutions by ion exchange using Bio-Rad, distribution coefficients for, 25:41899
separation from acid solutions by selective extraction using copper diethyldithiocarbamate, 22:14454
separation from acid solutions by solvent extraction using alkyl sulfoxides, 24:16485 (IS-2100, Sect. C)
separation from aqueous solution by reversed-phase chromatography using bis(2-ethylhexyl) or 2-ethylhexyl phosphate, 23:35268
separation from aqueous solutions by ion exchange on zirconium tellurate, tracer studies on, 25:41915
separation from aqueous solutions by solvent extraction using benzoylphenylhydroxylamine, 25:46545
separation from aqueous solutions by solvent extraction using two sterically hindered β-diketones, 25:32064
separation from aqueous solutions by sorption on hydrated ferric oxide, 24:33774(P)
separation from aqueous solutions by spontaneous electrodeposition on metallic mercury, 21:36093
separation from cobalt, cation-exchange method for, 21:32252
separation from gold and iridium after neutron activation by paper chromatography, 25:41920
separation from gold and silver by chromatography using, 24:25110
separation from gold by ion exchange, 22:12375
separation from gold by paper chromatography using phenylbenzohydroxamic acid, 21:23849
separation from gold by reversed-phase chromatography using bis(2-ethylhexyl) phosphate, 23:35268
separation from gold by solvent extraction using triphenylguanidinium chloride, 25:57554
separation from gold, and palladium, review on methods for, 24:7492
separation from gold, iridium, palladium, and silver by paper chromatography, 22:4248
separation from hydrochloric acid by solvent extraction using dibutyl carbamoylphosphonate, 24:39008
separation from iridium, palladium, rhodium, and ruthenium by precipitation using ammonium thiocyanate and α-benzyldioxime, 25:37475
separation from lead spallation products, 23:45371 (UJV-2204-Ch)
separation from metals by chromatography and electrophoresis using inorganic ion exchangers, 24:25110
separation from metals by reversed-phase column chromatography or solvent extraction using sulfoxides, 23:43382 (IS-T-293)
separation from metals by thin-layer chromatography using DEAE-cellulose in binary solvent systems, 24:22762
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from mixture of metals by ring-oven method, 22:18880
separation from nitrate and sulfate solutions by solvent extraction using amines, 25:2319 (ORNL-4572, pp 181-95)
separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
separation from other metals by chromatography on stannic phosphate and stannic tungstate papers, 22:4248
separation from other metals by radial paper chromatography, 25:35
separation from other metals by solvent extraction, 25:31858
separation from other metals using inorganic ion exchange papers, 25:41909
separation from other platinum metals by paper chromatography, 24:298
separation from other platinum metals by paper electrophoresis using EDTA as a background electrolyte, 24:283
separation from rhenium by solvent extraction, 25:54401
separation from silver by paper chromatography using phenylbenzohydroxamic acid, 21:23849
separation from tellurium by thin-layer chromatography using chelating celluloses and sulfurated silica gel, 25:48586
separation from titanium by paper chromatography, 22:25257
separation from tungsten by paper chromatography, 22:25257
separation of alkali metals from, by ion-exchange paper chromatography, 22:18881
separation of cyclotron-produced gold-195 from irradiated target of, in hydrochloric acid by solvent extraction using ethyl acetate, 24:46314
separation of gold from irradiated, by spontaneous electrodeposition on metallic mercury, 21:36093
separation of osmium and ruthenium from, by distillation, 24:16485 (IS-2100, Sect. C)
separation of plutonium traces from, by precipitation with ferric ion and ion exchange, 21:34317 (LA-3149)
separation of ruthenium from, by solvent extraction using carbon tetrachloride, 22:18884
separation of uranium from, by thin-layer chromatography, 21:25944
separation of uranium from, method for, 21:169(P)
separation of, from aqueous solutions by ion flotation methods, 21:10422
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, review on methods for, 24:7492
shielding properties of, during tantalum-182 therapy of tumors, 22:47540
shock compressibility of, model for analysis of, 24:42122
siloxy compounds of, preparation and properties of, 21:45130
solar-wind interactions with foils of, particle capture by, (E), 23:46410
solubility in γ-irradiated mineral acids, 23:9306 (ORNL-4343, pp 62-84)
solvent properties for deuterium and hydrogen, isotope effect in, 23:210
solvent properties of monocrystalline, for deuterium and hydrogen at 350 to 670°C, 22:35813
sorption by manganese dioxide from nitric acid, 22:157
sorption of gaseous sulfur dioxide on airborne particles of, sulfur-35 tracer study of, 23:9940 (ORNL-4316, pp 271-94)
sorptive properties for benzene, tracer studies of, 24:2138
sorptive properties for iodides, 24:11510
sorptive properties for iodine-131 from acid solutions of neutron-irradiated magnesium tellurate, 25:41880
sorptive properties for ionic radioisotopes in aqueous solutions, effects of acidity on, 22:35767(T) (AEC-tr-6776)
sorptive properties for oxygen, 22:12270(R) (COO-1383-1)
sorptive properties for radioactive ions, effects of surface passivation on, 22:21072
sorptive properties for radioisotopes, 22:4129
sorptive properties for rare earth ions, 22:47109 (AERE-R-5323)
sorptive properties for tetravalent plutonium in nitric acid solution, 25:39517(T) (MLM-1820(TR))
sorptive properties for thorium as TTA complex, 24:16509
sorptive properties of polished, for americium, effects of pH on, 24:13819
sorptive properties of powders of, for oxygen, isotopic exchange studies of, 22:18753
sorptive properties of surfaces of electrodes of, for oxygen, electrochemical kinetics of, 22:27626 (MIT-905-108, pp 33-62)
sorptive properties of, for astatine in nitric acid solutions, 21:10335
sorptive properties of, for curium-242 in nitric acid, effects of hydrogen, lanthanum, and potassium ions and hydrogen peroxide on, 21:8256
spectra excitation by β particles of carbon-14 or promethium-147, emission, 22:27844
spectra of electron-excited, relative intensities of L x-ray lines in, (E), 24:8324(T) (UCRL-Trans-10422)
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
sputtering by 100-keV protons of films of, backscattering in, (E), 24:12629
sputtering by slow mercury ions, threshold energy for, 24:10053
sputtering yields of argon ion bombarded, 22:2587 (BNWL-553)
stability at high temperatures, 22:37900 (BNL-50082, pp 153-80)
strengthening for high-temperature crucibles, 23:40913 (BNL-50149, pp 123-52)
structure and intrinsic stress of thin films of, 25:6226 (COO-623-151)
superconducting transition temperature of, relation to magnetic spin susceptibility, (T), 21:20894
surface structures of chemisorbed aromatic molecules of, LEED studies on, 25:41778 (UCRL-20500, pp 1-85)
tensile properties of, review of, 25:40021 (LA-4670)
thermal capacity at 1000 to 2000°K, 21:28776
thermal conductivity, 22:8731 (ORNL-4170, pp 37-41)
thermal conductivity measurements to 375°K, 21:13260 (ORNL-3970, pp 36-41)
thermal conductivity of, separation of electronic and lattice contributions to, 24:39650
thermal expansion at 1000 to 1900°K, 24:34877 (BMBW-FBK-70-1, pp 600-20)
thermal loading to induce water boiling on wires of, parameters for critical, 25:18583
thermodynamic constants of, and its compounds, 23:33190
thermoelectric power of, effect of pressure on, 22:40993(R) (COO-1198-534)
thermoelectric power of, effects of pressure on, 21:39610 (COO-1198-465)
use as bonding agent for beryllia—graphite joints, 21:9217(P)
use as catalyst in preparation of deuterated organic compounds, 23:26250(P)
use as reflector in beta light source, 21:240(P)
use of bridgewire of, for ignition of secondary explosives in pressure cartridges, 21:21914 (LA-3668)
use of thin films for fission fragment detection by particle tracks, 22:40364
use of thin films of, in alpha autoradiography of plutonium distribution in reactor fuel elements, 22:44942
uses as structural materials in corrosive environments, review on, 23:46004
uses in separation of zirconium from MSBR fuel, 24:36355 (ORNL-4586, pp 50-66)
void formation in, by quenching, 25:58319
wetting by liquid sodium, effects of surface conditions on, 23:48398
x-ray absorption in, photoionization cross sections for ultrasoft, (E/T), 22:24475
x-ray fluorescence spectra of, semiconductor detectors for measuring, 22:19096 (INR-820/II/PS)
x-ray fluorescence spectra of, semiconductor detectors for measuring, 23:4800(T) (ANL-Trans-631)
x-ray spectra from beta-excited, (E), 22:13248
yield stress in, effects of dislocations on, 21:43618 (BNL-11717)
zirconium activity coefficients in, 23:40616 (UCRL-18735, pp 5-80)

PLATINUM ALLOY COUPLES
Mo—PT/Mo—Pt, performance of thermocouples of, for in-core high temperature measurements, 25:13326
Au—Pd/Au—Pd—Pt, tests and data on high temperature thermocouples of, 24:36644 (DP-Report-167)
Pt/Pt—Rh, design and performance of, 22:36453 (LMEC-Memo-68-10)
Pt/Pt—Rh, radiation effects at 100 to 1000°C, neutron, 21:20533 (CONF-660511-, pp 7.3.1-5)

PLATINUM ALLOYS AND SYSTEMS
analysis by neutron activation in IAN-R1 research reactor, 24:38770 (PRNC-135, pp 93-7)
book: Electron Properties of Metals and Alloys, in Russian, 21:34910
cleaning for use in large radioisotope heat source fuel capsules, specifications for, 22:33603 (AI-AEC-12677)
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
fabrication and properties of, for large radioisotope heat source fuel capsules, 22:33602(R) (AI-AEC-12676)
joining to tantalum alloys, development of methods for, 24:20949(R) (ORNL-4533)
magnetic moment distribution in ferromagnetic binary, review of neutron-scattering studies of, 23:18728
properties for use as thermocouple in reactors, 21:19796 (CONF-660511-, pp 7.2.1-5)
properties for use in fuel capsule fabrication, 25:49410 (ORNL-TM-3300, pp 224-6)
tensile properties of, review of, 25:40021 (LA-4670)
actinides—Pt, preparation by coupled reductions, 25:49389
Ag—Cd—In—Pt, metallurgical properties of, effects of annealing temperature on, 22:30165(R) (WCAP-3706)
Ag—Cd—In—Pt, tensile properties of control elements of, effects of annealing temperature on, 22:30167(R) (WCAP-3708)
Ag—Cd—In—Pt—Sn, tensile properties of control elements of, effects of annealing temperature on, 22:30167(R) (WCAP-3708)
Ag—Pt, corrosion—polarization and corrosion—kinetic parameters of, radioactive methods of determining, 22:2575
Al_2O_3—Pt, deuterium exchange between hydrocarbons, effects on, 22:4144
Al_2O_3—Pt, effects of, on reactions of deuterium with acetylene, 21:12425
Al_2O_3—Pt, effects on reduction of aqueous uranyl nitrate solutions by hydrogen at low pressure, catalytic, 25:10572 (IEA-184)
Al_2O_3—Pt-base, preparation of dispersion-strengthened, by precipitation of platinum on oxide particles by reduction of platinum chloride, 23:30113
Al_2O_3—Pt-base, properties of dispersion-strengthened, electric and tensile, 25:13755
Al—Pt, crystal structure of, review of, 23:48460 (NP-18014)
Al—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Al—Pt—Ru, analysis for trace amounts of ruthenium, photometric, 23:21629
Al—Pt—U-base, properties for use as reactor fuel with improved resistance to bubble formation, 21:11255(P)
Au—La—Pt, formation and structure of intermetallic compounds in, 21:11208 (ANL-7155, pp 167-289)
Au—Nb—Pt, magnetic properties of Nb_3Au/sub x/Pt/sub 1-x/, NMR and susceptibility measurements, 24:35550
Au—Nb—Pt, superconducting transition temperature of intermetallic, effect of annealing conditions on, (E), 23:36626
Au—Nb-base—Pt, superconductivity and thermal capacity of intermetallic $Nb_3(Pt,Au)$, (E), 24:1346
Au—Nd—Pt, formation and structure of intermetallic compounds in, 21:11208 (ANL-7155, pp 167-289)
Au—Pd—Pt, brazing of, with refractory alloys and metals, exothermic, 21:9116
Au—Pt, nuclear spin—echo envelope in solid solutions of, effects of dc field variation on, (T), 23:44560
Au—Pt-base, distribution of gold atoms in dilute, determination by field ion microscopy, 23:1007
Au—Pt-base, radiation damage in, annealing of 90°K 3-MeV electron, 25:36306
B—Pt, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
B—Pt, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
B—Pt—Zr-base, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
B—Pt-base, testing under water reactor conditions for use in Zircaloy brazing, 23:35990 (IITRI-578-P-29-37)
Be—Pt, magnetization of $PtBe_{11}$, 23:30670
Be—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Be—Pt-base, oxidation by air at 1300°C, study of kinetics and product of, 25:37928
Bi—Pt, properties as extractant for fission products from MSBR salt, 24:46307 (ORNL-4548, pp 93-186)
Bi—Pt, solvent properties for cerium from molten fluorides, 23:45182 (ORNL-4396, pp 129-209)
C—Ce—Pt, phase diagram at 1100 to 1400°C, 25:24643
C—Er—Pt, phase diagram at 1100 to 1400°C, 25:24643
C—Pt—U, crystal structure and properties of U_2PtC_2, effects of annealing on, 23:22641
C—Pt—U, phase studies of, 23:8330
C—Pt—U, preparation of U_2PtC_2 by arc melting under argon, 23:22641
C—Pt—U, superconductivity in U_2PtC_2, 24:10465
C—Pt—Y, phase diagram at 1000 to 1200°C, 25:24643
C—Pt—Zr, phase studies, 23:30050 (UCRL-18727)
Ca—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Cd—Pt—Zn, crystal structure of intermetallic compounds of, 24:19459
Ce—Pt, conduction-electron polarization at inequivalent Pt sites in, (E/T), 22:9460
Ce—Pt, magnetic susceptibility of intermetallic $CePt_2$ and $CePt_5$ at 80 to 300°K, (E), 22:15599
Ce—Pt, phase studies and lattice constants of $CePt_5$ intermetallic compound, 21:4973
Ce—Pt, phase studies of, 22:19566
Ce—Pt, platinum-195 NMR at 80 to 300°K in intermetallic $CePt_2$ and $CePt_5$, (E), 22:15599
Ce—Pt, preparation and structure, 21:6832

Ce—Pt, thermal capacity and magnetic susceptibility of Laves phase $CePt_2$ at low temperatures, 22:48151 (IS-T-228)
Ce—Pt, thermal capacity of intermetallic $CePt_2$, 23:962 (IS-1900, Paper 5)
Ce—Pt, thermal capacity of Laves phase intermetallic compounds at 1.4 to 8°K in, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
Ce—Pt, thermal capacity of Laves-phase $CePt_2$ in magnetic field at low temperatures, 23:5489
Ce—Pt—Ru, lattice parameters of CePt/sub 2-x/Ru/sub x/, 23:5489
Cm—Pt, preparation of intermetallic $CmPt_5$, by oxide reduction reactions, 25:57658(R) (ORNL-4723)
Co—Pt, analysis for cobalt, x-ray spectrographic, 22:4 (AERE-R-5452)
Co—Pt, crystal lattice ordering in intermetallic Pt_3Co, mechanisms of, 23:51063(R) (COO-1431-7)
Co—Pt, ordering in intermetallic PtCo, field ion microscopy studies of, 25:27252
Co—Pt, transformations in, order-disorder, 21:31036 (UCRL-17330, pp 79-121)
Co—Pt-base, distribution of cobalt atoms in dilute, determination by field ion microscopy, 23:1007
Co—Pt-base, evaporation rates at 950 to 1050°C, 24:4771 (ORNL-4440, pp 237-44)
Co—Pt-base, properties of fuel capsules of, tensile and thermal, 23:48389 (ORNL-4420, pp 254-61)
Co-base—Pt, thermal expansion at 100 to 800°C, 25:29899
Co-base—Pt, transformation temperatures of, allotropic, 25:29899
Cr—Fe—Ni—Pt, corrosion by boiling aqueous magnesium chloride, effects of chloride and oxygen contents on stress, 25:6831(R) (COO-2069-5)
Cr—Fe-base—Ni—Pt, corrosion by water containing trace chloride and oxygen at 200°C, stress, 25:8834(R) (COO-2069-6)
Cr—Ni—P—Pt, electric conductivity and magnetic susceptibilities of amorphous, 25:44237 (CALT-822-31)
Cr—Pt, creep of intermetallic alloy S-19, effects of temperature on, 24:20949(R) (ORNL-4533)
Cr—Pt, oxidation by air of intermetallic compounds of, at 1000°C, 24:46435(R) (ORNL-4597)
Cr—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Cr—Pt, properties of intermetallic compounds of, for fuel capsule liners, 25:2643 (ORNL-4570, pp 106-11)
Cr—Pt—Sb, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Cr—Pt—Sb, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Cr—Pt—Si, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Cr—Pt—Si, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Cr—Pt—Sn, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Cr—Pt—Sn, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Cr—Pt—W, oxidation by air of intermetallic compounds of, at 1000°C, 24:46435(R) (ORNL-4597)
Cr—Pt—W, tensile properties of intermetallic compounds of, at 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Cr—Pt-base, mechanical properties of ordered Pt_3Cr, at 850 to 1175°C, 24:32416
Cr—Pt-base—Ti, properties for use as radioisotope fuel capsule material, 25:8850 (ORNL-4600, pp 181-5)
Cr—Pt-base—W, oxidation of dilute, by air at 1000°C, 24:44697 (ORNL-4560, pp 173-8)
Cr-base—Pt, superconductivity and thermal capacity of, with A-15 structure, 25:25045
Cu—Pt, analysis for composition, spectroscopic, 21:17563 (ARL-67-0002)
Cu—Pt, copper-63 NMR in copper-rich, first- and second-order quadrupole effects in, (E), 22:1309
Cu—Pt, corrosion—polarization and corrosion—kinetic parameters of, radioactive method of determining, 22:2575
Cu—Pt, crystal lattice vibrations from inelastic neutron scattering, (E), 22:26764 (SGAE-PH-60/1967)
Cu—Pt, crystal structure and thermoelectric properties of intermetallic Cu_3Pt, 22:10950 (ORO-3091-8)
Cu—Pt, deformation studies of, 25:44286(R) (ORO-3091-21)
Cu—Pt, formation of equiatomic, at 360 to 1155°K, heat of, 21:40757 (UCRL-17615)
Cu—Pt, hardness of intermetallic CuPt, relations with ordering, 25:16516(R) (ORO-3908-2)
Cu—Pt, magnetic susceptibility of, at 4.2 to 300°K, 21:11208 (ANL-7155, pp 167-289)
Cu—Pt, mechanical properties of intermetallic Cu_3Pt, effects of deformation on, 22:10951 (ORO-3091-9)
Cu—Pt, mechanical properties of, effects of order on, 25:46394 (ORO-3091-19)
Cu—Pt, strength of intermetallic Cu_3Pt, effects of deformation on, 22:10985(R) (ORO-3091-7)
Cu—Pt, thermal properties of intermetallic compound CuPt in, 21:31036 (UCRL-17330, pp 79-121)
Cu—Pt, thermodynamic properties of, calorimetric studies on, 21:11208 (ANL-7155, pp 167-289)
Cu—Pt—Zr-base, preparation for use in gas-cooled reactors, 21:45878(P)
Cu—Pt-base, formation heats, 22:43594 (ANL-7299, pp 251-64)
Dy—Ir—Pt, formation and structure of intermetallic compounds in, 21:11208 (ANL-7155, pp 167-289)
Dy—Pt, magnetic properties of intermetallic, 23:42505
Dy—Pt, magnetic properties of intermetallic $DyPt_3$, 22:4778
Dy—Pt, phase studies of, 22:19566
Dy—Pt, preparation and structure, 21:6832
Dy—Pt, structure of intermetallic $DyPt_5$, 24:36936
Er—Pt, magnetic properties of intermetallic $ErPt_3$, 22:4778
Er—Pt, preparation and structure, 21:6832
Eu—Eu_2O_3—Pt, phase studies at 1500°C, 25:27302
Eu—Pt, Moessbauer and magnetic properties of intermetallic, 22:22246
Eu—Pt, phase studies of, 25:767 (CONF-700403-(Vol.1), pp 376-87)
Eu—Pt, phase studies of, 22:19566
Eu—Pt, preparation and structure, 21:6832
Eu—Pt, structure of intermetallic $EuPt_5$, 24:36936
Fe—Pt, analysis for iron, x-ray spectrographic, 22:4 (AERE-R-5452)
Fe—Pt, chemical and magnetic ordering in, Moessbauer spectral studies of, 22:5456
Fe—Pt, internal magnetic fields at platinum nuclei in, from platinum-195 Moessbauer effect, (E), 22:1351
Fe—Pt, ordering in intermetallic FePt and $FePt_3$, field ion microscopy studies of, 25:27252
Fe—Pt, phase diagrams and thermodynamic properties of, 22:4803
Fe—Pt, properties as bath for vacuum fusion determination of oxygen in refractory metals, 23:21628
Fe—Pt, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Fe—Pt-base, properties of fuel capsules of, tensile and thermal, 23:48389 (ORNL-4420, pp 254-61)
Fe-base—Pt, evaporation rates at 950 to 1000°C, 24:4771 (ORNL-4440, pp 237-44)
Gd—Pt, electric conductivity of $GdPt_2$ near magnetic ordering temperature, temperature derivative of, 24:42823
Gd—Pt, electric conductivity of intermetallic $GdPt_2$, temperature dependence of, (E), 23:39575
Gd—Pt, gadolinium hyperfine fields in, (E), 21:7353
Gd—Pt, gadolinium ion EPR in intermetallic $GdPt_3$, (E), 22:15599
Gd—Pt, gadolinium ion ESR in intermetallic compounds of, relation between g shift and hyperfine field in, (E), 22:29579
Gd—Pt, magnetic properties of intermetallic $GdPt_3$, 22:4778
Gd—Pt, phase studies of, 22:19566
Gd—Pt, preparation and structure, 21:6832
Hf—Mo—Pt-base, properties for use as fuel capsule material, 25:23739(R) (ORNL-4663)
Hf—Mo—Pt-base, properties for use as radioisotope fuel capsule material, 25:8850 (ORNL-4600, pp 181-5)
Hf—Mo—Pt-base, tensile properties at 73 to 2400°C, 25:49410 (ORNL-TM-3300, pp 224-6)
Hf—Pt, preparation by coupled reductions, 25:49389
Hf—Pt, stability of gaseous intermetallic, 25:35350
Hf—Pt, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Hf—Pt-base, properties for use as radioisotope fuel capsule material, 25:8850 (ORNL-4600, pp 181-5)
Hf—Pt-base, tensile properties at 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Hf—Pt-base—Rh—Ti—W, hardness of crystallized, effects of annealing at high temperatures on, 25:57658(R) (ORNL-4723)
Hf—Pt-base—W, oxidation by air at 1000°C, 24:46435(R) (ORNL-4597)
Hf—Pt-base—W, properties for use as radioisotope fuel capsule material, 25:8850 (ORNL-4600, pp 181-5)
Hf—Pt-base—W, tensile properties at 25 to 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Hf—Pt-base—W, tensile properties at 25 to 1290°C, 25:8427(R) (ORNL-4639)
Hg—Pt, spectra of Knight shift of platinum-195 in, effects of temperature on NMR, 22:50234
Ho—Pt, magnetic properties of intermetallic $HoPt_3$, 22:4778
Ho—Pt, preparation and structure, 21:6832
In—Pt, crystal lattice spacing at 25°C, 23:14357
In—Pt, phase studies, 23:14357
Ir—Os—Pt, electric properties, 23:994
Ir—Pt, electrodeposition on metal in fused sodium cyanide and aqueous electrolytes for protective coatings, 21:41542 (BM-RI-7023)
Ir—Pt, platinum-195 NMR in, (E), 22:29570
Ir—Pt, superconductivity, susceptibility, and thermal capacity, correlation between, (E), 22:11383
Ir—Pt, superconductivity, susceptibility, and thermal capacity of, (E/T), 22:11384
Ir—Pt, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
La—Pt, conduction-electron polarization at inequivalent Pt sites in, (E/T), 22:9460
La—Pt, magnetic susceptibility of intermetallic $LaPt_2$ and $LaPt_5$ at 80 to 300°K, (E), 22:15599
La—Pt, phase studies and lattice constants of $LaPt_5$ intermetallic compound, 21:4973
La—Pt, phase studies of, 22:19566
La—Pt, platinum-195 NMR at 80 to 300°K in intermetallic $LaPt_2$ and $LaPt_5$, (E), 22:15599
La—Pt, preparation and structure, 21:6832
La—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
La—Pt, thermal capacity of intermetallic $LaPt_2$, 23:962 (IS-1900, Paper 5)
La—Pt, thermal capacity of Laves phase intermetallic compounds at 1.4 to 8°K in, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
La—Pt, thermal capacity of Laves phase $LaPt_2$ at low temperatures, 22:48151 (IS-T-228)
La—Pt, thermal capacity of Laves-phase $LaPt_2$ in magnetic field at low temperatures, 23:5489
Li—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
LiH—Pt, compound formation in vacuum and under hydrogen at 800°C in, 23:24182
Lu—Pt, preparation and structure, 21:6832
Mg—Pt, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Mo—Pd—Pt, electric properties, 23:994
Mo—Pt, phase diagram, 22:26061
Mo—Pt, platinum-195 NMR shift in, effects of molybdenum content on, (E), 22:1319
Mo—Pt, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Mo—Pt, superconductivity, 22:26061
Mo—Pt, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Mo—Pt—Re, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Mo—Pt-base, creep at 800 to 1150°C, 24:36894 (ORNL-4520, pp 202-10)
Mo—Pt-base, creep of S-22, effects of temperature on, 24:20949(R) (ORNL-4533)
Mo—Pt-base, mechanical properties of disordered, at 850 to 1150°C, 24:32416
Mo—Pt-base, platinum-195 NMR in, (E), 22:29570
Mo—Pt-base, properties for use as fuel capsule material, 25:23739(R) (ORNL-4663)
Mo—Pt-base, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Mo—Pt-base, radiation effects on electric conductivity of thermocouple wires of, 23:8148 (BMI-X-10246)
Mo—Pt-base, tensile properties at 25 to 1093°C, 25:29823 (ORNL-4630, pp 186-90)
Mo—Pt-base, tensile properties at 25 to 1093°C, 25:8427(R) (ORNL-4639)
Mo—Pt-base, tensile properties at 73 to 2000°F, 25:49410 (ORNL-TM-3300, pp 224-6)
Mo—Pt-base—Ti, tensile properties at 25 to 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Mo—Pt-base—Ti, tensile properties at 25 to 1290°C, 25:8427(R) (ORNL-4639)
Mo-base—Pt—Re, microstructure at 1050 to 1800°C, 24:14778
Mo-base—Pt—Re, superconducting transition temperatures of, effects of composition on, 24:14778
N—Pt—Zr, compound formation and stability in, 21:33002
Na—Pt, wetting properties of liquid, on solid metals below 200°C, 21:43598
Nb—Pt, analysis for niobium by spectrophotometry using pyrogallol, 23:26167
Nb—Pt, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Pt, magnetic properties of Nb_3Pt, NMR and susceptibility measurements, 24:35550
Nb—Pt, niobium-93 NMR in Nb_3Pt, 25:56373
Nb—Pt, phase diagram for, review on, 23:47435
Nb—Pt, superconducting transition temperature of rf-sputtered Nb_3Pt films, 24:51598
Nb—Pt, thermodynamic properties of $NbPt_3$, 24:44720
Nb—Pt, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Nb—Pt—U, beta to alpha phase transformation kinetics, 21:26848
Nb-base—Pt, superconductivity and thermal capacity of intermetallic Nb_3Pt, (E), 24:1346
Nd—Pt, conduction-electron polarization at inequivalent Pt sites in, (E/T), 22:9460
Nd—Pt, magnetic properties of intermetallic $NdPt_3$, 22:4778
Nd—Pt, magnetic susceptibility of intermetallic $NdPt_2$ and $NdPt_5$ at 80 to 300°K, (E), 22:15599
Nd—Pt, phase studies and lattice constants of $NdPt_5$ intermetallic compound, 21:4973
Nd—Pt, phase studies of, 22:19566
Nd—Pt, platinum-195 NMR at 80 to 300°K in intermetallic $NdPt_2$ and $NdPt_5$, (E), 22:15599
Nd—Pt, preparation and structure, 21:6832
Ni—P—Pd—Pt, electrical properties of amorphous, 25:51272 (CALT-822-35)
Ni—P—Pt, properties of amorphous, 24:11347 (CALT-221-81)
Ni—P—Pt, radial distribution function of amorphous, x-ray diffusion measurement of, 24:8123 (CALT-221-80)
Ni—Pt, formation of solid solutions of, heat of, 24:25725 (ANL-7417, pp 85-104)
Ni—Pt, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Ni—Pt-base, distribution of nickel atoms in dilute, determination by field ion microscopy, 23:1007
Ni-base—Pt, evaporation rates at 950 to 1000°C, 24:4771 (ORNL-4440, pp 237-44)
Np—Pt, electric conductivity of NpPt at 1.5 to 300°K, magnetic transition in, 25:33455
O—Pt, radiation effects on polarization of electrode of, in aqueous potassium hydroxide solutions, electron, 24:11554 (JAERI-5022, pp 13-17)
Os—Pt, crystal structure of, effects of electronic structure on, 21:6830
Os—Pt, electric properties at high temperatures, 23:994
Os—Pt, mechanical properties at high temperatures, 23:994
Os—Pt, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Os—Pt—W, electric properties, 23:994
Pb—Pt, spectra of Knight shift of platinum-195 in, effects of temperature on NMR, 22:50234
Pd—Pt, electric properties of, effects of deuterium and hydrogen sorption on, 22:4793
Pd—Pt, formation of solid solutions of, heat of, 24:25725 (ANL-7417, pp 85-104)
Pd—Pt, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pd—Pt, sorptive properties of, for deuterium and hydrogen, equilibrium constants for, 21:4534
Pd—Pt—U, uranium-235 fission fragment ranges in, 21:10368(R) (AGN-8178)
Pd—Pt-base, distribution of palladium atoms in dilute, determination by field ion microscopy, 23:1007

Pd—Pt-base, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pm—Pt, preparation and structure, 21:6832
Pr—Pt, conduction-electron polarization at inequivalent Pt sites in, (E/T), 22:9460
Pr—Pt, cooling of PrPt$_5$ by nuclear adiabatic demagnetization, 24:28198
Pr—Pt, magnetic properties of intermetallic PrPt$_2$, 22:4778
Pr—Pt, magnetic susceptibility of intermetallic PrPt$_2$ and PrPt$_5$ at 80 to 300°K, (E), 22:15599
Pr—Pt, nuclear magnetic cooling of PrPt$_5$, using hyperfine field, 25:27666
Pr—Pt, phase studies and lattice constants of PrPt$_5$ intermetallic compound, 21:4973
Pr—Pt, phase studies of, 22:19566
Pr—Pt, platinum-195 NMR at 80 to 300°K in intermetallic PrPt$_2$ and PrPt$_5$, (E), 22:15599
Pr—Pt, preparation and structure, 21:6832
Pr-base—Pt, phase diagram of, 25:55567
Pr-base—Pt, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Pt, phase diagram of, thermodynamic analysis of, 25:55566
Pt—base—Rh, properties for use in isotopic heat source capsules, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt—Pu, electric conductivity of PuPt at 1.5 to 300°K, magnetic transition in, 25:33455
Pt—Pu, phase diagrams of, 21:32918
Pt—Pu, properties of intermetallic compounds of, for use as heat sources, 25:32126(R) (LA-4647)
Pt—rare earths, preparation and structure, 21:6832
Pt—rare earths, properties of, chemical and physical, 25:32691
Pt—Rb, fabrication of barrier shells of, for radioisotope heat source capsule, 23:17688(R) (AI-AEC-12776)
Pt—Re, annealing and cleaning for large radioisotope heat source capsules, methods for, 23:33329 (AI-AEC-12822)
Pt—Re, crystal structure of, effects of electronic structure on, 21:6830
Pt—Re, fabrication for barrier cap and shell of large radioisotope heat source, 23:33329 (AI-AEC-12822)
Pt—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—Re—Ta, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Pt—Re—Ti, phase studies of, 23:18242
Pt—Re—W, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Pt—Rh, coating with iron titanate, methods for, 22:4355(R) (NAA-SR-12578)
Pt—Rh, compatibility with plutonium-238-dioxide to 1900°C, effects of atmosphere, molybdenum, and tantalum on, 24:32498
Pt—Rh, fabrication for large radioisotope heat source capsule barrier caps and shells, 22:47290(R) (AI-AEC-12713)
Pt—Rh, fabrication of large radioisotope heat source capsule barrier shells and caps of, 23:11720(R) (AI-AEC-12753)
Pt—Rh, gamma attenuation cross sections at 84, 100, and 280 keV, (E/T), 24:28402
Pt—Rh, gamma-ray interactions in, effective atomic numbers for, (E/T), 24:49244
Pt—Rh, mechanical properties of, 21:43616
Pt—Rh, metallurgical properties of oxidation barrier of, for Large Radioisotope Heat Source fuel capsule during launch pad abort, 23:47709 (AI-AEC-12841)
Pt—Rh, performance as brazing alloy for tungsten, 23:8132 (ORNL-4370, pp 92-100)
Pt—Rh, photoelectric cross sections for, (E), 22:47818
Pt—Rh, photon reactions at 2.6 to 17.6 MeV with, effective atomic numbers for pair production in, (T), 25:14402
Pt—Rh, preparation for use as catalyst in production of nitric acid from ammonia, 23:19746 (TID-25000)
Pt—Rh, properties for use as DART I fuel capsule cladding, 25:15837 (MLM-1578)
Pt—Rh, properties for use as thermocouple in reactors, 21:19796 (CONF-660511-, pp 7.2.1-5)
Pt—Rh, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pt—Rh, solubility in hydrofluoric acid—nitric acid at high temperature and pressure, 25:6258(R) (IN-1426)
Pt—Rh, testing for fuel capsule liner cladding, 22:4355(R) (NAA-SR-12578)
Pt—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—Ru, analysis for trace amounts of ruthenium, photometric, 23:21629
Pt—Ru, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pt—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Pt—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—Sc, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Pt—Si, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pt—Si, properties for use as braze alloy for joining Zircaloy-2-clad fuel elements, 21:36824(R) (IITRI-578-P-29-14)
Pt—Si—Zr-base, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pt—Si—Zr-base, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pt—Si-base, testing under water reactor conditions for use in Zircaloy brazing, 23:35990 (IITRI-578-P-29-37)
Pt—Sm, phase studies and lattice constants of Pt$_3$Sm intermetallic compound, 21:4973
Pt—Sm, phase studies of, 22:19566
Pt—Sm, platinum-195 NMR in SmPt$_2$, temperature dependence of Knight shift, 24:12908
Pt—Sm, preparation and structure, 21:6832
Pt—Sm, tin-119 Knight shift and susceptibility in SmPt$_2$, (T), 25:47687
Pt—Sn, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pt—Sn, crystal lattice spacing at 25°C, 23:14357
Pt—Sn, properties for use as braze on Zircaloy-2 sheet, corrosion and metallographic, 21:26793(R) (IITRI-578-P-29-11)
Pt—Sn, spectra of Knight shift of platinum-195 and tin-119 in, effects of temperature on NMR, 22:50234
Pt—Sr, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Pt—Ta, analysis for composition, spectroscopic, 21:17563 (ARL-67-0002)
Pt—Ta, superconducting behavior of, 23:25281
Pt—Ta, thermodynamic properties of TaPt$_3$, 24:44720
Pt—Ta, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—TaO$_2$, production of thin-film, by sputtering, 22:722(R) (AD-648018)
Pt—Tb, magnetic properties of intermetallic TbPt$_2$, 22:4778
Pt—Tb, magnetic structure of TbPt$_3$ at low temperatures, 24:51817
Pt—Tb, phase studies and lattice constants of Pt$_3$Tb intermetallic compound, 21:4973
Pt—Tb, preparation and structure, 21:6832
Pt—Tc, phase studies of, 22:4807
Pt—Th, electric conductivity of ThPt at 1.5 to 300°K, 25:33455
Pt—Th, phase studies of, 22:19566
Pt—Ti, crystal structure of intermetallic Ti$_{27}$Pt$_{73}$, 23:18244
Pt—Ti, stability of gaseous intermetallic, 25:35350
Pt—Ti-base, corrosion by acetic acid—acetic anhydride—carbon tetrachloride mixture at 60 to 85°C, 23:41553
Pt—Tm, phase studies and lattice constants of TmPt$_2$ and TmPt$_3$ intermetallic compounds, 21:4973
Pt—Tm, preparation and structure, 21:6832
Pt—U, electric conductivity of ferromagnetic UPt, temperature dependence of, 25:3215
Pt—U, electric conductivity of UPt at 1.5 to 300°K, magnetic transition in, 25:33455
Pt—U, ferromagnetism in, 24:10465
Pt—U$_3$O$_8$, electric conductivity measurements in air and carbon monoxide—carbon dioxide mixtures with electrodes of, on sintered Nernst mixture, 21:12419
Pt—V, electron band structure of V$_3$Pt from x-ray emission spectra, 25:50003
Pt—V, nuclear magnetic resonance studies in normal and superconducting states of, 21:44001
Pt—V, nuclear relaxation measurements in superconducting and normal states of intermetallic PtV$_3$, 21:13509
Pt—V, superconductivity, thermal capacity, and crystalline order of, with A15 structure, (E/T), 24:40016
Pt—V-base, vibrational properties of, inelastic neutron scattering study of, 24:10617
Pt—W, crystal structure and superconductivity of, 22:36496
Pt—W, crystal structure of intermetallic WPt$_2$, 23:18244
Pt—W, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on tungsten, 21:9152
Pt—W, electric properties at high temperatures, 23:994
Pt—W, mechanical properties at high temperatures, 23:994
Pt—W, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—WO$_2$, production of thin-film, by sputtering, 22:722(R) (AD-648018)
Pt—Y, preparation of intermetallic compounds of, method for, 24:51141(T) (ORNL-tr-2381)
Pt—Yb, crystal structure of YbPt, 25:42892
Pt—Yb, formation in lithium chloride—potassium chloride, 23:33188
Pt—Yb, phase studies and lattice constants of YbPt$_2$ and YbPt$_3$ intermetallic compounds, 21:4973
Pt—Yb, preparation and structure, 21:6832
Pt—Zr, brazability and corrosion by water at 680°F, 22:8703(R) (IITRI-578-P-29-17)
Pt—Zr, preparation by coupled reductions, 25:49389
Pt—Zr, properties for use as braze on Zircaloy-2 sheet, corrosion and metallographic, 21:26793(R) (IITRI-578-P-29-11)
Pt—Zr, stability of gaseous intermetallic, 25:35350
Pt—Zr, thermal stability of intermetallic compounds of, 23:30050 (UCRL-18727)
Pt—Zr, thermodynamic properties of ZrPt$_3$, 24:44720
Pt—Zr, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—Zr-base, corrosion of brazing materials of, by flowing lithiated water, 23:26991 (IITRI-578-P-29-35)
Pt—Zr-base, testing under water reactor conditions for use in Zircaloy brazing, 23:35990 (IITRI-578-P-29-37)
Pt-base—Re—W, mechanical properties of, effects of annealing and recrystallization on, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt-base—Re—W, microstructure of, effects of aging at 400 to 1600°C on, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt-base—Rh, compatibility testing of, for oxidation barrier for large radioisotope heat source capsules, 22:51175 (AI-AEC-12739)
Pt-base—Rh, compatibility with iron titanate coatings at high temperatures, 23:41615
Pt-base—Rh, compatibility with niobium-base—zirconium alloys at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with other candidate refractory materials for radioisotope fuel capsules at 2000°F, 24:31589(R) (AI-AEC-12956)
Pt-base—Rh, compatibility with other refractory alloys and materials for use in large radioisotope heat source capsules, 24:41610 (AI-AEC-12966)
Pt-base—Rh, compatibility with plutonium dioxide at 1250 to 1500°C, 24:46767(R) (BMI-1860)
Pt-base—Rh, compatibility with plutonium-238 dioxide powder at 1200°C in presence of tantalum—tungsten alloy, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with plutonium-238 dioxide powder and spheres at 1200°C, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with plutonium-238 dioxide spheres in presence of molybdenum, tantalum, or TZM, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with T-111 alloy at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with tantalum-base—tungsten alloys at 2250°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with TZM at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, fabrication of fuel capsule liners of, 24:20947(R) (AI-AEC-12926)
Pt-base—Rh, fabrication of Pioneer and Transit heat source capsule components of, equipment and methods for, 25:26425 (MLM-1796)
Pt-base—Rh, fabrication of Pioneer and Transit radioisotope heat source components of, methods for, 24:41611 (AI-AEC-12967)
Pt-base—Rh, microstructure of deep-drawn, for use in large radioisotope heat source barrier shells, 24:375(R) (AI-AEC-12875)
Pt-base—Rh, properties for use as fuel capsule material, 25:23739(R) (ORNL-4663)
Pt-base—Rh, properties for use in large radioisotope heat source capsules, 22:10503 (NAA-SR-12635)
Pt-base—Rh, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pt-base—Rh, radiation effects on electric conductivity of thermocouple wires of, in-pile, 23:8148 (BMI-X-10246)
Pt-base—Rh, radiation effects on electric properties of, neutron, 23:8248
Pt-base—Rh, tensile properties at 1093 to 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Pt-base—Rh, tensile properties at 1093 to 1290°C, 25:8427(R) (ORNL-4639)
Pt-base—Rh, tensile properties at 2000 to 2400°F, 25:49410 (ORNL-TM-3300, pp 224-6)
Pt-base—Rh, testing for large radioisotope heat source capsule coating, 22:23216(R) (AI-AEC-12642)
Pt-base—Rh, testing in multilayer fuel capsules, impact, 24:20947(R) (AI-AEC-12926)
Pt-base—Rh—Ti, preparation of dispersion-strengthened, 24:19397(T) (ORNL-tr-2285)
Pt-base—Rh—W, compatibility with tungsten at high temperatures, 25:57658(R) (ORNL-4723)
Pt-base—Rh—W, fabrication and properties of cladding of, 25:41993(R) (ORNL-4692)
Pt-base—Rh—W, hardness of crystallized, effects of annealing at high temperature on, 25:57658(R) (ORNL-4723)
Pt-base—Rh—W, properties for use in isotopic heat source capsules, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt-base—Rh—Zr, preparation of dispersion-strengthened, 24:19397(T) (ORNL-tr-2285)
Pt-base—Ru, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pt-base—Si, corrosion of brazing materials of, by flowing lithiated water, 23:26991 (IITRI-578-P-29-35)
Pt-base—ThO$_2$, mechanical properties of dispersion-strengthened, 23:30113
Pt-base—ThO$_2$, preparation of dispersion-strengthened, by precipitation of platinum on oxide particles, 23:30113
Pt-base—ThO$_2$, properties of dispersion-strengthened, electric and tensile, 25:13755
Pt-base—W, distribution of tungsten atoms in dilute, determination by field ion microscopy, 23:1007
Pt-base—W, iodine ionization yields at 1300 to 2000°K on surfaces of, molecular and atomic, 25:35839
Pt-base—W, performance as brazing alloy for tungsten, 23:8132 (ORNL-4370, pp 92-100)

PLATINUM ARSENIDES
  arsenic-75 nuclear quadrupole resonance measurements in, 22:39202
  platinum-195 nuclear magnetic resonance measurements in, 22:39202

PLATINUM BROMIDES
  complexes of, bromine-82 exchange between substituted ammonium compounds and, 22:10290
  complexes with ammonia, bromine-82 exchange between potassium bromide and, mechanism of, 22:30574
  reactions of ions of, with iodide ions in aqueous solutions, spectral studies on equilibria in replacement, 22:37776 (BNL-50082, pp 79-92)
  separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

PLATINUM CARBIDES
  PtC—U$_2$C, thermal expansion of U$_2$PtC$_2$, high-temperature anisotropic, 25:11509

PLATINUM CHLORIDES
    see also Potassium Platinum Chlorides
  complexes of, chlorine-36 exchange between substituted ammonium compounds and, 22:10290
  complexes with 2,6-lutidine 1-oxide, preparation and infrared studies of, 24:46224
  complexes with ethylene, chlorine-36 exchange reactions in ethanol solutions of, kinetics of, 21:42912 (IS-T-177)
  complexes with ethylene, chlorine-36 isotopic exchange studies on, 21:40772 (IS-1600, Paper 3)
  complexes with ethylene, reactions in ethanol and water, solvolysis, 21:42912 (IS-T-177)

- complexes with ethylenediamine, aquation reactions of, 24:13675 (IS-T-329)
- complexes with ethylenediamine, spectra for single crystals of, polarized absorption electronic, 25:41696 (IS-T-447)
- complexes, rate of replacement of chloride ligand by ammonia in, 23:213 (IS-1900, Paper 3)
- radioinduced oxidation and reduction of ions of, yields in pulse, 22:33383
- radiolysis of ionic, in concentrated solutions, yields in γ, 21:45170
- reactions of ions of, with iodide ions in aqueous solutions, spectral studies on equilibria in replacement, 22:37776 (BNL-50082, pp 79-92)
- separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

PLATINUM COUPLES
- Mo/Pt, calibration at 0 to 1600°C, 23:33940
- Pt/Pt—Rh, compatibility with Zircaloy-4 at high temperatures, 23:50981 (IN-1307)
- Pt/Pt—Rh, design and performance of, 22:36453 (LMEC-Memo-68-10)
- Pt/Rh, design and performance of, 22:36453 (LMEC-Memo-68-10)
- Pt/Rh, design for temperature measurements in Herald reactor, 24:14364

PLATINUM FLUORIDES
- CsF—PtF$_4$, complexes of, use of molar refractivity in determining composition of, 23:33183
- KF—PtF$_4$, complexes of, use of molar refractivity in determining composition of, 23:33183
- LiF—PtF$_4$, complexes of, use of molar refractivity in determining composition of, 23:33183
- NaF—PtF$_4$, complexes of use of molar refractivity in determining composition of, 23:33183
- NH$_4$F—PtF$_4$, complexes of, use of molar refractivity in determining composition of, 23:33183
- PtF$_4$—RbF, complexes of, use of molar refractivity in determining composition of, 23:33183

PLATINUM HALIDES
- book: Halides of the Transition Elements, Halides of the Second and Third Row Transition Metals, 23:9399
- vapor pressure of, Torque—Knudsen measurement of, 25:39376 (IS-T-445)

PLATINUM, HYDROXYTRIMETHYL-
- crystal structure of, 23:49771 (UCRL-18667, pp 255-76)

PLATINUM IONS
- chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
- effects on platinum at 20 and 30 keV, long-range migration of self-interstitial atoms in Stage I annealing of, 25:30649 (NYO-3504-57)
- effects on platinum at 20 or 30 keV, long-range migration of self-interstitial atoms in stage I annealing of, 25:40784
- effects on platinum at 20 to 30 keV, field-ion microscopic study of, 25:27866(R) (NYO-3504-56)
- identification of singly ionized, in spectra of peculiar A stars, (E), 23:27236
- production of, design of sputtered gun for, 24:25158 (AERE-R-6343)
- radii in fluorides and oxides, 24:188
- transport in lithium chloride solutions, paper ionophoretic studies on, 23:28827

PLATINUM ISOTOPES
- alpha decay of, (E), 24:49912
- decay schemes for, tables on, 23:33331 (BNL-13595)
- effects on spectra of platinum, relative, 25:41819
- electron-capture decay of neutron-deficient, (E/T), 25:14993
- energy levels and moments of, calculations using pairing-plus-quadrupole model, 21:4345
- energy levels from neutron inelastic scattering at 0.3 to 1.5 MeV, (E), 22:27109
- energy levels of even-even, low-lying, (T), 21:12018 (INSJ-101)
- energy-level transitions in, branching ratios for E2, (T), 25:28316 (CERN-70-30(Vol.2), pp 779-812)
- neutron resonance parameters for, spin systematics of, (E/T), 22:53166 (CEA-R-3385)
- nuclear quadrupole moments, (E/T), 22:11957
- preparation of carrier-free radioactive, by electrolytic precipitation, 25:51539
- production of foils of, for nuclear research, 22:263
- production of radiochemically pure, 22:12375
- production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
- separation from other products from spallation of gold by migration in quartz tube with temperature gradient, 24:2285
- use in ion-implantation perturbed-angular-correlation study of transient magnetic fields in iron and gadolinium, (E), 25:5189

PLATINUM ISOTOPES Pt-176
- alpha decay of, α energy and half-life for, (E), 22:5840

PLATINUM ISOTOPES Pt-177
- alpha decay of, α energy and half-life for, (E), 22:5840

PLATINUM ISOTOPES Pt-178
- alpha decay of, α energy and half-life for, (E), 22:5840

PLATINUM ISOTOPES Pt-180
- alpha decay of, α energy and half-life for, (E), 22:5840

PLATINUM ISOTOPES Pt-182
- book: Isobaric Nuclei with Mass Number A = 182, 23:8991
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, primary collective, 24:43389
- energy levels of, rotational, (E), 21:7786
- energy levels of, spin—parity assignments for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy-level transition rotational constants for, (E), 22:30027

PLATINUM ISOTOPES Pt-184
- electron-capture decay of, γ spectra and half-life for, (E), 23:21307
- energy levels from gold-184 decay, transition probabilities for, (E), 25:28425
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, primary collective, 24:43389
- energy levels of, rotational, (E), 21:7786
- energy levels of, spin—parity assignments and lietimes for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy-level transition rotational constants for, (E), 22:30027
- energy-level transitions in, intensities and multipolarities for, (E), 21:29969(R) (UCRL-17299)
- energy-level transitions in, probabilities for E2, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)

PLATINUM ISOTOPES Pt-185
- electron-capture decay of, half-lives for, (E), 25:28335 (CERN-70-30(Vol.2), pp 1045-55)

PLATINUM ISOTOPES Pt-186
- electron-capture decay of, γ spectra for, (E), 23:21307
- energy levels and transitions from gold-186 decay, (E), 24:15878
- energy levels from gold-186 decay, transition probabilities for, (E), 25:28425
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, calculation of, (T), 24:43519
- energy levels of, primary collective, 24:43389
- energy levels of, rotational, (E), 21:7786
- energy levels of, spin—parity assignments and lietimes for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy-level transition rotational constants for, (E), 22:30027
- energy-level transitions in, intensities and multipolarities for, (E), 21:29969(R) (UCRL-17299)
- energy-level transitions in, probabilities for E2, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)

PLATINUM ISOTOPES Pt-187
- beta and electron-capture decay of, γ spectra for, (E), 23:21307

PLATINUM ISOTOPES Pt-188
- conversion-electron and gamma spectra following tantalum-181 (B-11,4n) reactions, (E), 22:30027
- decay of, conversion-electron and gamma spectra for, (E), 21:29969(R) (UCRL-17299)
- electron-capture decay of, gamma energies and intensities from, (E), 25:28389
- electron-capture decay of, γ spectra from, (E), 24:18421
- electron-capture decay of, iridium-188 energy levels from, (E), 21:44690
- electron-capture decay scheme of, Q-value and log-ft values for, (E), 22:44748
- energy levels and transitions from gold-188 decay, (E). 24:15878
- energy levels from electron-capture decay of gold-188, (E), 22:30031
- energy levels from gold-188 decay, (E), 24:6903
- energy levels from gold-188 decay, (E), 21:1079(R) (PPAD-593-E)
- energy levels from gold-188 decay, transition probabilities for, (E), 25:28425
- energy levels from iridium-188 decay, high-spin quasiparticle, (E), 23:49435
- energy levels from tantalum-181 (B-11,4n) reactions, (E), 21:15595
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, primary collective, 24:43389
- energy levels of, rotational, (E), 21:7786
- energy levels of, spin—parity assignments and lietimes for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy-level transition rotational constants for, (E), 22:30027
- energy-level transitions in, intensities and multipolarities for, (E), 21:29969(R) (UCRL-17299)
- energy-level transitions in, probabilities for E2, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)

PLATINUM ISOTOPES Pt-189
- electron-capture decay of, gamma energies and intensities from, (E), 25:28389
- electron-capture decay of, gamma—gamma coincidences and iridium-189 energy levels in, (E), 25:17925
- electron-capture decay of, γ singles and coincidence spectra for, (E), 24:18420
- electron-capture decay of, iridium-189 K-conversion coefficients and gamma intensities from, (E), 21:4303
- energy levels and transitions from gold-189 decay, (E), 24:15878
- energy-level transitions from gold-189 decay, (E), 21:12054
- energy-level transitions from gold-189 decay, (E), 21:1079(R) (PPAD-593-E)
- half-lives of isomeric, (E), 25:28335 (CERN-70-30(Vol.2), pp 1045-55)
- isomeric transitions in, γ spectra and half-life for, (E), 23:21307

PLATINUM ISOTOPES Pt-190
- alpha decay of, α energies and half-life for, (E), 22:35323
- energy levels from gold-190 decay, (E), 24:6903
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, primary collective, 24:43389
- energy levels of, spin—parity assignments and lietimes for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy-level transition rotational constants for, (E), 22:30027
- energy-level transitions from gold-197 decay, internal conversion coefficients for, (E), 25:56760
- energy-level transitions in rotational bands from osmium-188 (α,2n) reactions, relative intensities for, (E), 23:17109
- energy-level transitions in, probabilities for E2, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)

PLATINUM ISOTOPES Pt-191
- decay scheme of isomeric, half-life and transition multipolarities for, (E), 21:42664
- electron-capture decay of, branching ratios, conversion-electron, gamma, and x-ray spectra, and log-ft and Q values for, (E), 25:59805
- electron-capture decay of, conversion electron and gamma energies and intensities from, (E), 24:30834
- electron-capture decay of, gamma—gamma coincidences and iridium-191 energy levels in, (E), 25:17925
- electron-capture decay of, γ singles and coincidence spectra for, (E), 24:18420
- electron-capture decay of, γ singles and coincidence spectra and conversion electron spectra from, (E), 25:43902
- electron-capture decay of, γ spectra from, (E), 21:46761
- electron-capture decay of, relative probability and total transition energy of K and L, (E), 24:43337
- energy levels of, determination of electromagnetic transition probabilities from mean lifetimes of, (E), 25:59776 (FRNC-TH-56)
- energy-level spins and transitions from gold-191 decay, (E), 21:27606
- gamma decay of isomeric, half-life, gamma energy, and multipolarity of, (E), 21:38370
- half-life, (E), 24:43337
- isomer with 107-μs half life, (E), 21:10007 (PUC-937-217)
- isomeric transition in, half-life for, (E), 23:23706

PLATINUM ISOTOPES Pt-192
- alpha decay of, α energies and half-life for, (E), 22:35323
- alpha inelastic scattering at 10 and 15 MeV, gamma energy and angular distributions from, (E), 25:17904
- alpha inelastic scattering at 3 to 11 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
- description using rotational-vibrational model, (T), 22:20574 (LYCEN-6785)
- energy level at 316 keV, g-factor for, (E), 22:24835(R) (BARC-305)
- energy level at 316 keV, g-factor measurement using γ-γ directional correlations, (E), 22:26929(R) (COO-1420-139)
- energy level at 612 keV, g-factor for, (E), 23:44882(R) (COO-1746-24)
- energy level of, g-factor of second 2^+, (E), 24:43391
- energy level of, lifetime of second excited, (E), 22:46731(R) (COO-1746-8)
- energy levels and transitions from iridium-192 decay, (E), 25:34111
- energy levels at 316 and 612 keV, g-factor measurements using γ—γ angular correlations in hyperfine fields, (E), 22:46731(R) (COO-1746-8)
- energy levels at 316 and 612 keV, lifetimes of, (E), 24:47634
- energy levels at 921 and 1200 keV from iridium-192 decay, spins of, (E), 24:6937
- energy levels from Coulomb excitation, g-factors, lifetimes, and transition probabilities for, (E), 25:17904
- energy levels from decay of iridium-192, (E), 23:40046
- energy levels from decay of iridium-192, spin assignments for, (E), 23:7320
- energy levels from gold-192 decay, spin-parity assignments for, (E), 25:3654
- energy levels from iridium-192 beta decay, (E), 25:10032(T) (ORNL-tr-2345)
- energy levels from iridium-192 beta decay, spin—parity assignments for, (E/T), 25:12532 (TID-25592)
- energy levels from iridium-192 decay, (E), 24:38298
- energy levels from iridium-192 decay, nuclear magnetic moments of, (E), 24:30848
- energy levels from iridium-192 decay, spin assignments for, (E), 24:18415
- energy levels from iridium-192 decay, spin-parity assignments for, (E), 25:15062
- energy levels from iridium-192 decay, spin-parity assignments and multipole mixing ratios for, (E), 22:44747
- energy levels from proton Coulomb excitation, transition probabilities for, (E), 23:39976(R) (ORNL-4395)
- energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
- energy levels of, calculations using pairing + quadrupole model and Bohr's collective Hamiltonian, (T), 23:7314
- energy levels of, g factors for, 24:1838
- energy levels of, g factors of first two 2^+, (E), 24:49891
- energy levels of, g-factor measurements using precession in magnetic fields of ferromagnetic lattices, (E), 22:37339 (COO-1746-6)
- energy levels of, g-factors of first and second 2^+, (E), 24:13378
- energy levels of, hyperfine interactions from magnetic moments of first and second excited, (E), 24:28777 (LYCEN-6954)
- energy levels of, lifetimes and nuclear g-factors of first and second 2^+, (E), 24:24583
- energy levels of, lifetimes for, (E), 23:44882(R) (COO-1746-24)
- energy levels of, magnetic dipole moments of, (E/T), 25:25768
- energy levels of, magnetic moments of first 2^+, (E), 25:17859 (COO-1746-53)
- energy levels of, primary collective, 24:43389
- energy levels of, purity of collective, (T), 22:24901
- energy levels of, spin—parity assignments for, (E), 25:28334 (CERN-70-30(Vol.2), pp 1031-43)
- energy levels of, transition probabilities and g-factors for, (E), 24:43400
- energy-level gyromagnetic ratios, (E), 21:40374(R) (COO-1420-134)
- energy-level scheme from iridium-192 decay, (E), 25:50798
- energy-level spins and transition multipolarities from iridium-192 beta decay, (E), 21:38362
- energy-level structure of, calculation using asymmetric rotor model, (T), 21:2810
- energy-level transitions at 296 and 316 keV, (E), 21:19251

energy-level transitions from Coulomb excitation, multipole mixing ratios and probabilities for, (E), 23:11026
energy-level transitions from decay of iridium-192, multipole mixing ratios for, (E), 23:7320
energy-level transitions from iridium-192 beta decay, intensities of, (E), 25:10032(T) (ORNL-tr-2345)
energy-level transitions from iridium-192 beta decay, energies, intensities, multipolarities, and K conversion coefficients from, (E/T), 25:12532 (TID-25592)
energy-level transitions from iridium-192 decay, internal conversion coefficients and multipolarities for, (E), 25:23044
energy-level transitions from iridium-192 decay, internal conversion coefficients for, (E), 25:34079(R) (NP-18683)
energy-level transitions from iridium-192 decay, mixing ratios for, (E), 23:52155
energy-level transitions from iridium-192 decay, multipole mixing ratios for, (E), 22:26929(R) (COO-1420-139)
energy-level transitions from iridium-192 decay, multipole mixing ratios for, (E), 22:46731(R) (COO-1746-8)
energy-level transitions from iridium-192 decay, multipole mixing ratios for, (E), 25:7881
energy-level transitions in, $2^{+\prime} \rightarrow 2^{+}$, (E), 23:37205
energy-level transitions in, E2/M1 mixing ratios for, (E), 23:28309
energy-level transitions in, E2/M1 mixing ratios of $2^{+} \rightarrow 2^{+}$, (E), 22:1702
energy-level transitions in, K/L and K/L$_3$ internal conversion ratios for E2, (E), 22:53187
energy-level transitions in, M-subshell conversion coefficients for E2, (E), 21:40447
energy-level transitions in, matrix elements for E2 and M1, (T), 23:23729
energy-level transitions in, matrix elements for E0, E2, and M1, (E), 22:27189
gamma spectra and perturbed γ—γ angular correlation measurements on, (E), 23:10961(R) (NP-17704)
internal conversion M/L and (N + O)/M ratios for E2 transitions in, (E), 22:7730
internal-conversion ratios for E2 transitions in, (E), 21:19257
neon-22 reactions with, radium-isotope production by, (E), 22:9854 (JINR-P7-3613)
neutron capture at 0.5 to 700 eV, γ spectra for, (E), 23:42909 (CEA-R-3776)
neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
oxygen-16 inelastic scattering at 35 and 41 MeV, gamma energy and angular distributions from, (E), 25:17904
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
oxygen-16 inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
proton inelastic scattering at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
proton inelastic scattering at 2.7 and 3.0 MeV with Coulomb excitation, γ spectra for, (E), 23:39976(R) (ORNL-4395)

PLATINUM ISOTOPES Pt-193
electron-capture decay of, half-life and log-ft value for L-, (E), 25:50763
electron-capture decay of, half-lives, log-ft values, and M/L capture ratios from, (E), 25:50762
electron-capture decay of, Q values and partial half-lives for L capture from, (E), 25:5748
electron-capture decay of, Q-value and L-capture half-life for, (E), 24:11001
electron-capture decay of, x-ray spectra from, (E), 22:53169(R) (PPAD-647-D)
energy levels at 1.64 and 14.3 keV, effects of chemical environment on lifetimes of, (E), 23:8988
energy levels from electron-capture decay of gold-193, (E), 22:14015
energy levels from gold-193 decay, spin-parity assignments and transition multipolarities for, (E), 22:20581
energy levels from platinum neutron capture, spin assignments for resonance, (E), 24:52639
energy levels from platinum-192 neutron capture, (E), 23:5880
energy levels from platinum-192 resonance neutron capture, spin—parity assignments for, (E), 23:42909 (CEA-R-3776)
energy-level transitions from Coulomb excitation, branching ratios and probabilities of, (E), 22:29985 (ORNL-TM-2121)
energy-level transitions from gold-193 decay, internal conversion coefficients and multipolarities for, (E), 24:30862

PLATINUM ISOTOPES Pt-194
alpha fission at 65 MeV, cross section and fragment mass distribution for, (E), 23:31030
alpha fission of, cross section and fragment mass distribution for, (E), 23:31031
alpha inelastic scattering at 10 and 15 MeV, gamma energy and angular distributions from, (E), 25:17904
alpha inelastic scattering at 3 to 11 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
carbon-12 reactions with, production of polonium isotopes by, (E), 21:38335
description using rotational-vibrational model, (T), 22:20574 (LYCEN-6785)
energy level of, electric quadrupole moment of first 2^{+}, (E), 23:42924
energy levels at 328 and 622 keV, g-factors for, (E), 22:24835(R) (BARC-305)
energy levels at 329 and 622 keV, rotation angles and g factors for, (E), 25:15034
energy levels from Coulomb excitation, g-factors, lifetimes, and transition probabilities for, (E), 25:17904
energy levels from gold-194 decay, spin and parity of, (E), 25:5728
energy levels from iridium-194 decay, high-spin quasiparticle, (E), 23:49435
energy levels from iridium-194 decay, lifetimes and transition probabilities of, (E), 24:49877
energy levels from isomeric iridium-194 beta decay, lifetimes of high-spin, (E), 25:28353 (NP-18695)
energy levels from oxygen-16 scattering with Coulomb excitation, electric quadrupole moments of first 2^{+}, (E), 22:32636
energy levels from proton Coulomb excitation, transition probabilities for, (E), 23:39976(R) (ORNL-4395)
energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
energy levels of, calculations using pairing + quadrupole model and Bohr's collective Hamiltonian, (T), 23:7314
energy levels of, g-factor measurements using Coulomb excitation in alloys, (E), 22:46786
energy levels of, g-factor of lowest 2^{+}, (E), 21:44704
energy levels of, primary collective, 24:43389
energy levels of, static quadrupole moment of first 2^{+}, (E), 24:38237
energy levels of, transition probabilities and g-factors for, (E), 24:43400
energy-level transitions from Coulomb excitation, branching ratios and probabilities of, (E), 22:29985 (ORNL-TM-2121)
energy-level transitions from Coulomb excitation, multipole mixing ratios and probabilities for, (E), 23:11026
energy-level transitions from decay of iridium-194, (E), 23:7291
energy-level transitions from decay of isomeric iridium-194, multipolarities of, (E), 22:42047
energy-level transitions from gold-194 decay, multipole mixing ratios for, (E), 24:3928
energy-level transitions from gold-194 decay, multipole mixing ratios for, (E), 24:49854 (COO-1746-35)
energy-level transitions from gold-194 decay, multipole mixing ratios of, (E), 24:52554 (COO-1746-47)
energy-level transitions from iridium-194 β decay, (E), 22:11950(R) (ORO-3624-1)
energy-level transitions from iridium-194 decay, multipolarities from e^--γ angular correlations, (E), 21:33999
energy-level transitions in, comparison of E2-M1 mixing amplitudes with Kumar—Baranger pairing-plus-quadrupole force model, (E/T), 25:36773
energy-level transitions in, E2/M1 multipole mixing ratios in, (E), 24:49777(R) (COO-1746-39)
energy-level transitions in, matrix elements for E0, E2, and M1, (E), 22:27189
energy-level transitions in, matrix elements for E2 and M1, (T), 23:23729
energy-level transitions in, multipole mixing ratios for, (E), 25:28434
hyperfine magnetic fields at nuclei in cobalt, iron, and nickel, measurements using ion implantation with perturbed angular correlation method, (E), 22:46267
hyperfine magnetic fields at nuclei in magnetized gadolinium below Curie point, measurements using ion implantation with perturbed anbular correlation technique, (E), 22:46267
neon-22 reactions with, radium-isotope production by, (E), 22:9854 (JINR-P7-3613)
neutron capture at 0.5 to 700 eV, γ spectra for, (E), 23:42909 (CEA-R-3776)
neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
neutron strength function and scattering radius at 0 to 825 eV, (E), 22:18285
nuclear quadrupole moments, (E), 21:19284
nucleosynthesis of, evidence for non-s-process, (T), 24:27922
oxygen-16 inelastic scattering at 35 and 41 MeV, gamma energy and angular distributions from, (E), 25:17904
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
oxygen-16 inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
photon reactions (γ,n) at 5.8 to 24.0 MeV, neutron yields from, (E), 21:19284
proton elastic and inelastic scattering at 16 MeV, differential cross sections for, (E), 25:43901
proton inelastic scattering at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
proton inelastic scattering at 2.7 and 3.0 MeV with Coulomb excitation, γ spectra for, (E), 23:39976(R) (ORNL-4395)

PLATINUM ISOTOPES Pt-195
alpha fission at 65 MeV, cross section and fragment mass distribution for, (E), 23:31030
alpha fission of, cross section for, (E), 25:7849(R) (RLO-1759-23)
alpha inelastic scattering at 10 and 15 MeV, gamma energy and angular distributions from, (E), 25:17904
decay scheme of isomeric, (E), 21:33990
decay scheme of isomeric, conversion-electron and γ spectra for, (E), 21:42618
electron inelastic scattering with isomeric excitation, cross sections for, 23:23669
electron spectra of, measurement of K-, L-, and M-Auger and L-Coster—Kronig, 22:943 (ORNL-TM-1988)
energy level at 199.3 keV from Coulomb excitation, spin and parity of, (E), 25:17904
energy level at 99 keV, magnetic moment from Moessbauer measurements, (E), 22:48202(R) (BMwF-FBK-68-01)
energy level transitions from gold-195 decay, internal conversion coefficients for, (E), 23:44867
energy levels at 210 and 240 keV, g-factors for, (E), 23:25916
energy levels at 211.2 and 239.8 keV from Coulomb excitation, magnetic moments for, (E), 24:6897
energy levels at 99 and 130 keV from gold-195 decay, transition probabilites for, (E), 25:7863
energy levels at 99 and 130 keV, Moessbauer hfs measurements of nuclear magnetic moments and charge radii of, (E), 25:53808
energy levels from Coulomb excitation, g-factors, lifetimes, and transition probabilities for, (E), 25:17904
energy levels from electron and photon excitation, spin—parity assignments for, (E), 23:23669
energy levels from gold-195 electron-capture decay, skin—parity assignments for, (E), 25:10048
energy levels from iridium-195 beta decay, (E), 22:5837
energy levels from neutron inelastic scattering at 0.3 to 1.5 MeV, (E), 22:5810 (ANL-7363)
energy levels from platinum neutron capture, spin assignments for resonance, (E), 24:52639
energy levels from platinum-194 neutron capture, (E), 23:5880
energy levels from platinum-194 proton scattering, spectroscopic factors for isobaric analog, (E), 25:20378
energy levels from platinum-194 resonance neutron capture, spin—parity assignments for, (E), 23:42909 (CEA-R-3776)
energy levels of, nuclear hyperfine interaction and isomeric shift of first excited, (E), 21:23524
energy-level transition from gold-195 decay, multipole mixing ratio for 31-keV, (E), 22:42072
energy-level transitions from decay of gold-195, conversion coefficients and multipolarites for, (E), 23:3284
energy-level transitions from decay of isomeric, conversion coefficients and multipolarities for, (E), 21:42618
energy-level transitions from electron and photon excitation, multipolarities for, (E), 23:23669
energy-level transitions from gold-195 decay, (E), 21:33990
energy-level transitions from gold-195 decay, internal conversion coefficients for, (E), 24:8907
energy-level transitions from gold-195 decay, internal conversion coefficients and multipole mixing ratios for, (E), 25:7863
energy-level transitions from gold-195 electron-capture decay, conversion coefficients, multipolarities, and L-subshell ratios for, (E), 25:10048
energy-level transitions from iridium-195 beta decay, (E), 21:46717(R) (COO-1672-5)
energy-level transitions in, angular correlation coefficients for, 23:44882(R) (COO-1746-24)
energy-level transitions of, E2/M1 mixing ratios in, (E), 24:49777(R) (COO-1746-39)
Knight shift of, in platinum and its alloys, effects of temperature on NMR spectra of, 22:50234
Knight shifts in rare earth alloys, (E), 22:9460
Moessbauer effect in iron—platinum alloys, (E), 22:1351
Moessbauer effect in, nuclear properties from, (E), 21:4271 (AD-632579)
Moessbauer effect of 129-keV state in, 23:49012
Moessbauer energy shift of, effects of pressure on, 21:44809
Moessbauer spectrum of 129-keV energy-level transition in, branching ratio from, 25:19877
neutron capture at 0.5 to 700 eV, γ spectra for, (E), 23:42909 (CEA-R-3776)
neutron capture at 10 to 700 eV, partial widths for resonance, (E), 22:18284
neutron capture at 10 to 700 eV, radiative widths for resonance, (E), 23:5880
neutron capture at 30 keV, γ transition strengths in, (E), 22:27100
neutron capture at and between resonances, partial radiative widths for, (E), 23:5901
neutron capture by, average widths for high-energy radiative transitions from, (E), 21:31804
neutron capture by, gamma spectra and radiative widths for, (E), 21:35437(R) (EANDC(E)-76(U))
neutron capture by, γ spectra and transition widths for, (E), 21:40432 (WASH-1074)
neutron capture by, γ spectra from resonance, (E), 23:5897
neutron capture by, γ spectra from thermal, (E), 22:27156
neutron capture by, γ spectra from thermal, (E), 21:46728(T) (LA-tr-67-80)
neutron capture by, interference effects in resonances of, (E), 23:34780 (ANL-7282, pp 501-6)
neutron capture by, mean multiplicity of gamma radiation from thermal, (E), 24:10983
neutron capture by, partial widths for resonance, (E), 23:28304 (WASH-1124)
neutron capture by, radiative strength function for, (T), 22:53174
neutron capture by, resonance, (E), 22:37340(R) (EANDC(E)-89(U))
neutron capture by, spectroscopic analysis of, (E), 25:12586
neutron capture in 1/E spectrum, average γ spectra for, (E), 23:34783 (ANL-7282, pp 523-31)
neutron resonance capture at 12, 20, and 67 eV, gamma spectra from, (E), 21:25518 (WASH-1071)
neutron resonance capture by, gamma spectra from, (E), 21:23534(R) (ANL-7246)
neutron resonance parameters at 1 to 800 eV, (E), 21:35458 (CEA-R-3077)
neutron resonance parameters for, spin systematics of, (E/T), 22:53166 (CEA-R-3385)
neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
neutron strength function and scattering radius at 0 to 825 eV, (E), 22:18285
nuclear hyperfine interactions in, Moessbauer studies of, (E), 22:18302

nuclear magnetic resonance in iridium—platinum alloys and molybdenum—platinum-base alloys (E), 22:29570
nuclear magnetic resonance in molybdenum—platinum alloys, effects of molybdenum content on, (E), 22:1319
nuclear magnetic resonance in platinum—rare earth alloys at 80 to 300°K, (E), 22:15599
nuclear magnetic resonance in SmPt$_2$, temperature dependence of Knight shift, 24:12908
nuclear magnetic resonance measurements in PtP$_2$ and PtAs$_2$, 22:39202
oxygen-16 inelastic scattering at 35 and 41 MeV, gamma energy and angular distributions from, (E), 25:17904
oxygen-16 inelastic scattering at 35 MeV with Coulomb excitation, γ-oxygen-16 coincidence spectra and γ—γ angular correlations for, (E), 24:6897
photon reactions (γ,n) at 5.8 to 24.0 MeV, neutron yields from, (E), 21:19284
photon scattering with isomeric excitation, cross section for, 23:23669
proton reactions (p,pn) at 17 MeV, mechanism of, (E), 25:10005

PLATINUM ISOTOPES Pt-196
alpha fission at 65 MeV, cross section and fragment mass distribution for, (E), 23:31030
alpha inelastic scattering at 10 and 15 MeV, gamma energy and angular distributions from, (E), 25:17904
alpha inelastic scattering at 3 to 11 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
analysis for impurities, mass-spectrometric, 22:14431 (ORNL-4196, pp 59-62)
description using rotational-vibrational model, (T), 22:20574 (LYCEN-6785)
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomeric yield ratios of, (E), 21:23519
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomer yield ratios for, (E/T), 21:12024(R) (NYO-2771-19)
deuteron reactions (d,p) with, production of isomeric platinum-197 in, (E), 21:7760
electron inelastic scattering in giant resonance region by, partial-wave calculation of cross sections for, (T), 23:1851
energy level at 355.7 keV, g-factor measurement using perturbed angular correlations, (E), 22:20574 (LYCEN-6785)
energy level at 355.7 keV, g-factor measurement using integral rotation method, (E), 22:46787
energy level at 356 keV, g-factor for, (E), 22:14058
energy level of, electric quadrupole moment of first 2$^+$, (E), 23:42924
energy levels from Coulomb excitation, g-factors, lifetimes, and transition probabilities for, (E), 25:17904
energy levels from decay of gold-196 and iridium-196, spin—parity assignments for, (E), 23:37277
energy levels from gold-196 decay, (E), 21:10027
energy levels from gold-196 decay, (E), 23:5880
energy levels from iridium-196 decay, high-spin quasiparticle, (E), 23:49435
energy levels from iridium-196 decay, lifetimes and transition probabilities of, (E), 24:49877
energy levels from iridium-196m beta decay, lifetimes of high-spin, (E), 25:28353 (NP-18695)
energy levels from oxygen-16 scattering with Coulomb excitation, electric quadrupole moments of first 2$^+$, (E), 22:32636
energy levels from platinum neutron capture, spin assignments for resonance, (E), 24:52639
energy levels from platinum-195 neutron capture, widths for, (E), 23:5880
energy levels from platinum-195 resonance neutron capture, spin—parity assignments for, (E), 23:42909 (CEA-R-3776)
energy levels from platinum-195 resonance neutron capture, spin—parity assignments for, (E), 23:5897
energy levels from proton Coulomb excitation, transition probabilities for, (E), 23:39976(R) (ORNL-4395)
energy levels of, calculation including Mottelson—Valatin effect, (T), 25:31345
energy levels of, calculations using pairing + quadrupole model and Bohr's collective Hamiltonian, (T), 23:7314
energy levels of, g-factor measurements using Coulomb excitation in alloys, (E), 22:46786
energy levels of, g-factor of lowest 2$^+$, (E), 21:44704
energy levels of, hyperfine interactions from magnetic moments of first excited, (E), 24:28777 (LYCEN-6954)
energy levels of, primary collective, 24:43389
energy levels of, static quadrupole moment of first 2$^+$, (E), 24:38237
energy-level spins and transitions from decay of ground-state and isomeric iridium-196, (E), 22:42084
energy-level spins and transitions from iridium-196 decay, (E), 21:21550
energy-level spins and transitions from platinum-195 neutron capture, (E), 21:35437(R) (EANDC(E)-76(U))
energy-level transition rotational constants for, (E), 22:30027
energy-level transition widths from platinum-195 neutron capture, (E), 21:40432 (WASH-1074)
energy-level transitions from Coulomb excitation, branching ratios and probabilities of, (E), 22:29985 (ORNL-TM-2121)
energy-level transitions from Coulomb excitation, multipole mixing ratios and probabilities for, (E), 23:11026
energy-level transitions from gold-194 decay, multipole mixing ratios for, (E), 24:3928
energy-level transitions from gold-196 and iridium-196 decay, (E), 21:12051
energy-level transitions from gold-196 decay, multipole mixing ratios for, (E), 24:49854 (COO-1746-35)
energy-level transitions from gold-196 decay, multipole mixing ratios of, (E), 24:52554 (COO-1746-47)
energy-level transitions from platinum-195 (n,γ) reactions, average widths for, (E), 21:31804
energy-level transitions from platinum-195 thermal neutron capture, (E), 21:46728(T) (LA-tr-67-80)
energy-level transitions from platinum-195 thermal neutron capture, (E), 22:27156
energy-level transitions in giant resonance region, radiative widths for, (T), 22:53174
energy-level transitions in, comparison of E2-M1 mixing amplitudes with Kumar—Baranger pairing-plus-quadrupole force model, (E/T), 25:36773
energy-level transitions in, E2/M1 multipole mixing ratios in, (E), 24:49777(R) (COO-1746-39)
energy-level transitions in, internal conversion coefficients for E2, (E), 23:37277
energy-level transitions in, matrix elements for E0, E2, and M1, (E), 22:27189
energy-level transitions in, matrix elements for E2 and M1, (T), 23:23729
energy-level transitions in, multipole mixing ratios for, (E), 25:28434
neutron capture at 0.5 to 700 eV, γ spectra for, (E), 23:42909 (CEA-R-3776)
neutron capture by, cross section and resonance integrals for thermal, (E), 25:46000
neutron capture by, determination of thermal cross section for second-order reaction products, (E), 25:10040
neutron capture by, lithium-drifted germanium spectrometer for measuring resonance, 22:14834
neutron reactions (n,p) at 14 MeV, iridium-196 decay scheme from, (E), 21:2693
neutron reactions (n,p) at 14 MeV, iridium-196 production by, (E), 21:2727
neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
neutron strength function for, radiative, (E), 23:28304 (WASH-1124)
nuclear quadrupole moments, (E), 21:19284
oxygen-16 inelastic scattering at 35 and 41 MeV, gamma energy and angular distributions from, (E), 25:17904
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
oxygen-16 inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
oxygen-16 scattering at 26 and 36 MeV, transient fields in iron on recoils from, (E), 24:49804
photoabsorption cross section in giant resonance region, (T), 22:53174
photon reactions (γ,n) at 5.8 to 24.0 MeV, neutron yields from, (E), 21:19284
proton elastic and inelastic scattering at 12 to 18 MeV, excitation functions for, (E), 24:43118(R) (ANL-7620)
proton elastic and inelastic scattering at 13 to 17 MeV, analog resonance anomalies in, (E), 25:28371
proton inelastic scattering at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
proton inelastic scattering at 2.7 and 3.0 MeV with Coulomb excitation, γ spectra for, (E), 23:39976(R) (ORNL-4395)
proton reactions (p,n) and (p,2n) with, conversion electron spectra from, (E), 24:18429
sulfur-32 scattering at 56 and 59 MeV, transient fields in iron on recoils from, (E), 24:49804

PLATINUM ISOTOPES Pt-197
beta decay of, β and γ spectra, log ft, Q-value, and β—γ angular correlations for, (E), 25:34142
beta decay of, conversion-electron spectra from, (E), 25:36789
beta decay of, gold-197 energy levels and internal-conversion coefficients from, (E), 22:5863
beta decay of, gold-197 energy levels and transitions from, (E), 22:14031
beta decay of, gold-197 energy levels from, (E), 21:19246 (UCRL-16969)
beta decay of, Moessbauer study of, (E), 24:40650
electrochemical activity potential of, 25:709
energy level at 346 keV, lifetime of isomeric, (E), 25:12618
energy level at 53 keV, lifetime and E2 transition probability for, (E), 22:20600
energy level at 53 keV, lifetime for, (E), 24:11023
energy levels from platinum neutron capture, spin assignments for resonance, (E), 24:52639
energy levels from platinum-196 neutron capture, (E), 23:5880
energy levels from platinum-196 proton scattering, spectroscopic factors for isobaric analog, (E), 25:20378
energy levels from platinum-196 resonance neutron capture, spin—parity assignments for, (E), 23:42909 (CEA-R-3776)
energy levels of, lifetime and E2 transition probability of 53-keV, (E), 21:17339 (AE-266)
production by Szilard—Chalmers reactions in neutron-irradiated platinum in hexachloroplatinates, 24:16592
production of carrier-free isomeric, Szilard—Chalmers reaction for, 23:9425 (TID-24870)
production of isomeric, in platinum-196 (d,p) reactions, (E), 21:7760

PLATINUM ISOTOPES Pt-198
alpha inelastic scattering at 10 and 15 MeV, gamma energy and angular distributions from, (E), 25:17904
alpha inelastic scattering at 3 to 11 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
description using rotational-vibrational model, (T), 22:20574 (LYCEN-6785)
deuteron breakup at 14.5 and 17 MeV, cross sections for, 24:10998
energy level of, electric quadrupole moment of first 2$^+$, (E), 23:42924
energy levels from Coulomb excitation, g-factors, lifetimes, and transition probabilities for, (E), 25:17904
energy levels from oxygen-16 scattering with Coulomb excitation, electric quadrupole moments of first 2$^+$, (E), 22:32636
energy levels from proton Coulomb excitation, transition probabilities for, (E), 23:39976(R) (ORNL-4395)
energy levels of, g-factor of lowest 2$^+$, (E), 21:44704
energy levels of, static quadrupole moment of first 2$^+$, (E), 24:38237
energy-level transitions from Coulomb excitation, branching ratios and probabilities of, (E), 22:29985 (ORNL-TM-2121)
energy-level transitions from Coulomb excitation, multipole mixing ratios and probabilities for, (E), 23:11026
neutron capture at 0.5 to 700 eV, γ spectra for, (E), 23:42909 (CEA-R-3776)
neutron capture by, cross section and resonance integrals for thermal, (E), 25:46000
neutron capture by, gamma spectra from resonance, (E), 21:35437(R) (EANDC(E)-76(U))
neutron capture resonance integrals and resonance parameters for, tables of Doppler-broadened, (T), 22:47318 (EURFNR-527)
neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
neutron reactions (n,2n) at 14.7 MeV, total cross sections and isomeric yield ratios for, (E), 25:12618
neutron resonance integrals, (E), 22:16901
neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
nuclear quadrupole moments, (E), 21:19284
oxygen-16 inelastic scattering at 35 and 41 MeV, gamma energy and angular distributions from, (E), 25:17904
oxygen-16 inelastic scattering at 42 to 49 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
oxygen-16 inelastic scattering with Coulomb excitation, γ spectra and yields from, (E), 22:29985 (ORNL-TM-2121)
performance of activation detectors of, for neutron spectra measurements at 1 eV to 10 keV, 25:8481 (KFK-1233)
photon reactions (γ,n) at 5.8 to 24.0 MeV, neutron yields from, (E), 21:19284
properties as label for detection of fuel element failure, 24:50439(R) (ANL-7675)
proton elastic and inelastic scattering at 16 MeV, differential cross sections for, (E), 25:43901
proton inelastic scattering at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:11026
proton inelastic scattering at 2.7 and 3.0 MeV with Coulomb excitation, γ spectra for, (E), 23:39976(R) (ORNL-4395)
use in multi-element activation detectors, 22:16901

PLATINUM ISOTOPES Pt-199
beta decay of, conversion-electron spectra from, (E), 22:5848
beta decay of, gold-199 energy levels and internal-conversion coefficients from, (E), 22:5863
beta decay of, gold-199 energy levels and transition rates from, (E), 22:1701
beta decay of, gold-199 energy levels from, (E), 21:19246 (UCRL-16969)
beta decay of, γ singles and coincidence spectra and angular correlations from, (E), 24:3930
beta decay of, γ-γ angular correlation measurements on, 23:47745
beta decay scheme of, β and γ spectra for, (E), 22:11943 (AE-300)
decay of, gold-199 energy-level spins and transitions from, (E), 21:15556 (CONF-660221-, pp 204-8)
determination by ion exchange and γ spectroscopy, 25:10490(T) (LIB/Trans-334)
determination of, by ion exchange with mercury and counting, 21:1276
energy levels from platinum neutron capture, spin assignments for resonance, (E), 24:52639
energy levels from platinum-198 neutron capture, (E), 21:35437(R) (EANDC(E)-76(U))
energy levels from platinum-198 neutron capture, (E), 23:5880
energy levels from platinum-198 proton scattering, spectroscopic factors for isobaric analog, (E), 25:20378
energy levels from platinum-198 resonance neutron capture, spin—parity assignments for, (E), 23:42909 (CEA-R-3776)
gamma spectra of, analysis of, 21:10624

PLATINUM ISOTOPES Pt-201
nuclear properties of, Nuclear Data Sheets for, (E), 25:39014

PLATINUM METAL OXIDES
see also Iridium Oxides
see also Osmium Oxides
see also Palladium Oxides
see also Platinum Oxides
see also Rhodium Oxides
see also Ruthenium Oxides

PLATINUM METALS
see also Iridium
see also Osmium
see also Palladium
see also Platinum
see also Rhodium
see also Ruthenium
analysis for ruthenium, spectrophotometric, 24:22588
determination by fire-assay method, neutron activation and tracer studies of iridium losses in, 25:34544 (NIM-1048)
determination by neutron activation, 25:44343
determination in lead assay beads, matte, and ores by instrumental neutron activation, 24:38795
determination in ores, development of methods for trace, 23:40887(R) (NP-17982)
determination using mixed ligand complexes, 25:10460
etching methods for, 24:42068

  - Knight shift in, model of, 24:2944 (ORNL-4470, pp 50-1)
  - magnetic moments in, nuclear orientation studies of local, 25:3942 (COO-1569-67)
  - metallurgical properties and potentialities of, review, 21:9180
  - preparation of dispersion-strengthened, using small additions of rare earths and transition metals, 24:19397(T) (ORNL-tr-2285)
  - preparation of metallizing compositions of, incorporating copper oxide—vanadium oxide adhesion promoters, 24:42218(P)
  - separation by precipitation in specific media under controlled conditions, 24:9458
  - separation from solvent extracts of ores or waste by direct precipitation, 25:15749(P)
  - separation of hafnium, titanium, and zirconium from, by solvent extraction using Tropaeolin O and Tropaeolin OOO, 23:37892
  - separation of, development of methods for, 23:35264

- PLATINUM NEPTUNATES
  - complexes with ammonia and chlorine, properties of, 24:210
- PLATINUM OXIDES
  - effects on deuterium exchange between heavy water and benzene, catalytic, 22:8058
  - effects on deuterium exchange reactions between water-d_2 and alkyl benzenes, catalytic, 21:10322
  - effects on hydrogen reduction of uranium(VI) to uranium(IV) for preparation of aquasols, 25:37401(P)
  - electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  - formation on platinum anode in production of persulfates, 22:7971(T) (BNL-tr-168)
  - thermal stability and melting point of, effects of electronic configuration on, 21:22919
  - thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
- PLATINUM PHOSPHIDES
  - phosphorus-31 and platinum-195 nuclear magnetic resonance measurements in, 22:39202
- Platinum Potassium Chlorides
  - see Potassium Platinum Chlorides
- PLATINUM THIOCYANATES
  - complexes of, sulfur-35 exchange between potassium platinum thiocyanate and, 22:10290
- PLATR Reactor
  - see Reactors, Research
- PLATYHELMINTHES
  - Ancylostoma caninum, radiation effects on antigenicity of larvae of, for use in vaccine preparation, x, 22:52085
  - Clonorchis sinensis, radiation processing of vaccines of, research on, 22:31305
  - diagnosis of cestode, in poultry using x radiography, 23:29614
  - Dugesia dorotocephala, radiation effects on survival of, protective effects of serotonin-sulfate complex of creatinine against, γ, uv, and x, 24:39519 (NP-18175)
  - Dugesia dorotocephala, radiation effects on survival of, protective effects of serotonin against x, 25:42527
  - Dugesia dorotocephala, radioinduced inhibition of regeneration of, effects of dose on x, 23:16374 (AD-668330)
  - Dugesia genocephala, radiation effects on tissue regeneration by, x, 22:40842
  - Dugesia japonica, radiation effects on survival of, effects of postexposure dissection on regeneration following whole-body x, 24:46649
  - Dugesia lugubris, radiation effects on development of, effects of dose on γ and x, 23:5011(T) (UCRL-Trans-10276)
  - Dugesia lugubris, radiation effects on survival of, effects of stem cells on, 23:2913
  - Dugesia lugubris, radiation effects on survival of, in relation to survival of neoblast cells, effects of ploidy on, 23:22360
  - Dugesia lugubris, radiation effects on, model for stem cell survival curve following strontium-90 β, 23:33817
  - Dugesia sp., radiation effects on regeneration of, role of type I cells in, 25:44890
  - Dugesia sp., radiation effects on survival of, role of stem cells in x, 22:49517
  - Dugesia sp., radiation effects on, strontium-90 and yttrium-90 β, 24:32281
  - Dugesia sp., radioinduced inhibition of mitotic activity in, x, 23:20160
  - Dugesia sp., radioinduced lethality in, model of cellular basis for β and x, 23:24718
  - Dugesia tigrina, radiation effects on, protective effects of serotonin-creatinine sulfate complex against x, 22:23579
  - Echinococcus granulosis, radiation effects on larvae of, effects of, on immune reactions of dogs, x, 23:38513
  - Echinococcus granulosis, use of x-irradiated, for immunization of dogs, 25:52007 (A/CONF.49/P-355)
  - Echinococcus granulosus, detection of noncalcified cysts of, in man using gold-198, 25:8719
  - Echinococcus sp., infection of human liver with cysts of, effects of, on gold-198 and iodine-131 scanning, 25:11197
  - Fasciola gigantica, infection of cattle, effects of, on chromium-51 elution from erythrocytes and metabolism of iodine-125-labeled albumin, 24:50671
  - Fasciola hepatica, control in cattle in Puerto Rico using irradiated metacercariae, 25:42246(R) (PRNC-148)
  - Fasciola hepatica, development of, in rat liver following x radiation of metacercariae, 21:22745
  - Fasciola hepatica, infections in rabbits and sheep, use of chromium-51, iodine-131, and niobium-95 for determining pathogenesis of, 24:11921
  - Fasciola hepatica, radiation effects on cysts of, effects of, on infectivity in mice, x, 24:12015
  - Fasciola hepatica, radiation effects on infectivity of, in rats, 24:4700
  - Fasciola hepatica, radiation effects on metacercariae of, effects of, on development of immunity in rabbits, 24:50786
  - Fasciola hepatica, radiation effects on metacercariae of, in rabbits, chromium-51 tracer studies on pathophysiology of, 25:24310
  - Fasciola hepatica, radiation effects on morphology of, following exposure of metacercariae, x, 22:25985
  - Fasciola hepatica, use of irradiated metacercariae of, for immunization of sheep, 25:52007 (A/CONF.49/P-355)
  - Hymenolepis diminuta, radioinduced morphological variations in, after exposure of successive generations, γ, 21:16513
  - Hymenolepis microstoma, growth, morphology, and survival of, radiomimetic effects of busulfan and EMS on, 24:7982
  - Hymenolepis microstoma, radiation effects on chemical and physiological factors affecting, x, 21:36687(R) (ORO-1749-17)
  - Hymenolepis microstoma, radiation effects on development of cysticercoids of, x, 25:19095
  - Hymenolepis microstoma, radiation effects on, effects of age on x, 23:897(R) (ORO-1749-19)
  - Hymenolepis microstoma, radiation effects on, effects of, on immunity of hosts, x, 22:14971
  - Hymenolepis microstoma, radioinduced abnormalities and recovery in, transplanted to mice, x, 21:24638
  - Hymenolepis microstoma, radioinduced anomalies in testes of, protective effects of AET and anoxia against x, 24:12130
  - Hymenolepis microstoma, radioinduced sterility of, effects of age of exposure on x, 23:41426
  - Hymenolepis microstoma, radiosensitivity of cysticercoids of, effects of stage of development on x, 25:46960
  - Hymenolepis nana, infectivity in x-irradiated mice, effects of bone marrow transplants on, 24:50792
  - Hymenolepis nana, radiation effects on eggs and larvae of, viability of adults and progeny following γ, 25:39921
  - Hymenolepis nana, radiation effects on immunity of mice chimeras to, effects of dose on x, 24:12004
  - Hymenolepis nana, radiation effects on mice infected with, protective effects of streptomycin against x, 22:38207
  - Hymenolepis nana, radiation effects on susceptibility of mice to infection by, protective effects of syngeneic marrow grafts against x, 21:20262
  - Hymenolepis nana, transfer of immunity to, by injection of spleen cells from immunized donor mice into pre-irradiated recipient mice, 25:42311
  - Hymenolepsis microstoma, radiation effects on development, fecundity, and morphology of, in intermediate and final hosts, x, 23:35666(R) (ORO-1749-22)
  - Hymenolepsis sp., infestations in human heart, use of contrast media radiography for diagnosis of, 24:17093
  - infections of marmoset colony, 22:51309 (ORAU-106, pp 194-220)
  - Mesocestoides corti, cation concentration in calcareous corpuscles of, 24:41748
  - mortality in, effects of sunspot cycle on mass, (T), 22:43698
  - Opisthorchis felineus, radiation processing of vaccines of, research on, 22:31305
  - Paramphistomum microbothrium, radiation effects on immunogenicity and infectivity of, in cattle, goats, and sheep, x, 24:34167
  - Planaria sp., radiation effects on development and regeneration of embryos of, x, 21:28648
  - Polycelis nigra, radiation effects on embryogenesis of, electron microscopy of x, 22:40928
  - radiation effects on behavior and morphology of planarian, effects of dose on γ, 24:6107
  - radiation effects on genetics of, in Allium root tip, effects of depth of electron irradiation on, 21:1841
  - radiation effects on morphology of, thermal neutron, 21:436
  - radiation effects on survival of planarian, effects of age, decapitation, genetics, and oxygen on x, 23:20331
  - radiation effects on Tradescantia pollen, chromosome abnormalities resulting from γ and x, 21:3399
  - radiation effects on, effects of oxidizing agents, reducing agents, mutagens, radiomimetic substances, and radioprotective compounds on x, 21:1837(R) (NYO-2587-21)
  - Raillietina cesticillus, infection of γ-irradiated flour beetles with cysticercoids of, effects of, on survival, 25:4692 (COO-1209-13)
  - Schistosoma japonicum, infections in rhesus monkeys, protective effects of x-irradiated cercaria against, 23:50391
  - Schistosoma japonicum, radiation effects on development and morphology of, γ, 22:51871(T) (JPRS-45744)
  - Schistosoma japonicum, radiation effects on immunogenicity of cercariae of, effects of sex on, 24:34141
  - Schistosoma japonicum, radiation effects on virulence of cercariae of, in mice and monkeys, x, 22:12809
  - Schistosoma mansoni, density of eggs of, 25:46364 (CONF-710703-1)
  - Schistosoma mansoni, parasitic snails on, uptake of heavy metal ions by, 22:4585
  - Schistosoma mansoni, radiation effects on antigenicity of cercariae of, in mice, γ, 24:25412
  - Schistosoma mansoni, radiation effects on antigenicity of, for use against schistosoma infections in rhesus monkeys, 23:50391
  - Schistosoma mansoni, radiation effects on cercariae of, immunoprecipitin formation in challenged monkeys following γ, 25:32369
  - Schistosoma mansoni, radiation effects on egg production by, effects of exposure of cercariae on γ, 24:12226
  - Schistosoma mansoni, radiation effects on infectivity of, in mice, γ, 22:23481(R) (PRNC-102)
  - Schistosoma mansoni, radiation effects on maturation and oviposition of eggs of, following paternal exposure, anorchid, 24:34599
  - Schistosoma mansoni, radiosterilization in vitro and in vivo, effects of dose on x, 24:2834
  - Schistosoma sp., infections in man, treatment of, 21:22238(R) (NP-16547)
  - Schistosoma sp., radiation effects on infectivity of cercariae of, in rats, x, 21:41488
  - Schistosoma sp., radiation effects on infectivity of cercariae of, in mice, x, 21:22662
  - Schistosoma sp., radiosensitivity of, effects of sex on, 21:22662
  - Schistosoma sp., use of x-irradiated cercariae of, for immunization against mice infection, 21:11090
  - survey of species in environs of Savannah River Plant, 24:39471 (TID-25393)
  - Taenia saginata, radiation effects on survival of larvae of, in meat, effects of freezing on, γ, 24:34831
  - Taenia sp., radiation processing of vaccines of, research on, 22:31305
  - Taenia sp., radioinduced inactivation of cysticerci of, effects of dose on γ, 24:34606
  - use of, for evaluating toxicity of foods preserved by irradiation, 21:9039
- Pleiade Device
  - see Magnetic Mirror Machines
- Plexiglas (R)
  - see Methacrylic Acid, Methyl Ester, Polymers
- Plowboy Project
  - see Plowshare Project
- Plowing
  - see Tillage
- PLOWSHARE PROJECT
  - actinides recovery in, chemical process for, 21:6093 (DP-1055)
  - air blast from Cabriolet Event in, measurement of close-in, 23:24331 (PNE-951)
  - air blast from cratering nuclear detonation in Project Palanquin in, measurements of close-in, 23:485 (PNE-902-F)
  - air blast measurements in Project Pre-Schooner II, 22:42924 (PNE-512-F)
  - Air Space Advisory Plan for Project Sulky in, 23:4757 (PNE-718-F)
  - airblast effects from underground explosions in, predictions of, 23:9593 (SC-DC-68-2533)
  - airblast from Buggy I Event in, measurements of close-in, 25:4168 (PNE-320)
  - airblast from explosions in, effects of meteorological conditions on long-range propagation of, 24:27269
  - airblast from Project Trinidad in, from single one-ton surface, near surface, and buried chemical explosions, 25:51723 (SC-RR-710056)
  - airblast measurements and cratering performance of two to twenty-five buried high explosive charges in, 23:17639 (SC-RR-68-655)
  - airblast suppression from buried explosions in, effects of burial depth on, 23:9601
  - analysis of ground water in Project Rulison area, chemical and radiochemical, 24:14111 (USGS-474-67)
  - analysis of rock samples from Project Gasbuggy holes GB-1 and GB-3 in, data tabulation on petrographic, 25:8385 (PNE-G-69)
  - analysis of surface-foci travel times in, use of data from Gnome, Bilby, and Salmon events for, 22:195
  - bibliography of civil, industrial, and scientific uses for nuclear explosions in, 25:57603 (TID-3522(Rev.9))
  - bibliography on, 23:15992 (CEA-Bib-129)
  - blast effects from nuclear explosions in, monitoring and prediction of air-, 24:22839 (SWRHL-82, pp 309-33)
  - blast effects from Project Palanquin in, measurement of long range, 23:19875 (PNE-903-F)
  - blast measurements along ground at surface zero to 15, 600 feet from Project Schooner, 24:22828 (PNE-521)
  - book: Peaceful Use of Nuclear Explosives: Some Economic Aspects, 23:45435
  - book: The Constructive Uses of Nuclear Explosives, 22:25562
  - Cabriolet event, radiation dosimetry of fallout from, β and γ, 23:41272 (PNE-956)
  - canal construction in, feasibility of Isthmian, 23:9603
  - canal construction in, feasibility of nuclear explosives for transisthmian sea-level, 22:48974
  - canal excavation in, feasibility of nuclear explosives for sea-level, 23:49986
  - canal excavation in, meteorological studies for sea level Isthmian, 23:9599
  - carbon dioxide production in dolomite-contained Handcar Event in, (E), 25:21223 (UCRL-50951)
  - cavity and chimney exploration in Piledriver Event in, 22:23187 (UCRL-50385)
  - cavity conditions in Tatum Salt dome following Sterling Event in, 23:17640 (UCRL-50465)
  - cavity formation from Project Piledriver in, postshot core studies of, 24:46382 (UCRL-50865)
  - cavity formation in dolomite in Handcar event, 21:14345 (UCRL-50149)
  - cavity formation in granite in Shoal event, 21:14346 (UCRL-50150)
  - cavity formation in Piledriver Event in, calculation of free-field motion for, 22:19001 (UCRL-50373)
  - cavity formation in Project Gasbuggy, postshot investigation of, 22:45210 (UCRL-50425)
  - cavity formation in, 1964 to 1970 data on, 24:41474 (CONF-700101-(Vol.1), pp 43-65)
  - cavity formation in, method for calculating radius of, 23:15993 (CEA-R-3594)
  - cavity formation in, pressure—volume measurements on rocks for use in prediction of, 24:41477 (CONF-700101-(Vol.1), pp 89-109)
  - cavity gases from Project Gasbuggy in, development of model for chemical analysis of, 25:37514
  - cavity growth and seismic motions from dolomite-contained Handcar Event in, (E), 25:21223 (UCRL-50951)

cavity phenomena in Sterling Event, measurements of close-in, 21:45275 (UCRL-50295)
cavity pressure and temperature following nuclear explosion in alluvium, 22:200
cavity springing in, use of high explosives for underground, 21:30562 (UCID-15145)
chemical analysis of cavity gases from Project Gasbuggy in, 24:41505 (CONF-700101-(Vol.1), pp 815-17)
chemical analysis of pre-shot rock from Gasbuggy site in, 23:2184 (PNE-G-23)
chemical analysis of samples from Interoceanic Canal Route 17, 23:17318 (UCRL-50555)
chemical applications of nuclear explosions in, 23:21840(R) (ORNL-TM-2502)
chemical applications of nuclear explosions in, developments in, 22:23186(R) (ORNL-TM-2198)
chemical applications of nuclear explosions in, developments in, 24:2269(R) (ORNL-TM-2756)
chemical applications of nuclear explosions in, research progress on, 25:44466(R) (ORNL-TM-3480)
chemical applications of nuclear explosions in, tritium contamination of oil retorted from oil shales in, 23:6236(R) (ORNL-TM-2399)
chemical applications of nuclear explosions, developments in, 21:17747 (ORNL-TM-1775)
chemical applications of nuclear explosions, developments in, 21:6094 (ORNL-TM-1688)
chemical applications of nuclear explosives in, 24:48200(R) (ORNL-TM-3116)
chemical applications of, progress in, 25:6445(R) (ORNL-TM-3181)
chemical effects of Project Gasbuggy in, interpretation of, 24:41504 (CONF-700101-(Vol.1), pp 794-814)
chemical uses of nuclear explosions in, 21:36183(R) (ORNL-TM-1932)
chemical uses of nuclear explosions in, 24:342 (ORNL-4422, pp 272-5)
chimney and crater formation in, for development of water resources, 22:8245 (UCRL-70762)
chimney and surrounding granite characteristics in Piledriver, 22:8243(R) (UCRL-50008-67-4)
chimney and surrounding wall rock characteristics in Hardhat, 21:16036 (UCRL-50177)
chimney flooding in Project Gasbuggy, effects of ground water confinement and compressibility on, 21:45235 (UCID-15132(Add.))
chimney rubble from Piledriver Event in, radioactivity and size distribution of granite particles from, 23:9598 (UCRL-50489)
civil engineering applications in, lecture notes on, 22:199 (TID-23748)
civil engineering uses in, feasibility studies of, 23:17636 (NCG-TR-2)
civil, industrial, and scientific uses of nuclear explosives in, bibliography on, 23:19876 (TID-3522(8th Rev.)(Suppl.1))
civil, industrial, and scientific uses of nuclear explosives, bibliography on, 21:4643 (TID-3522(8th Rev.))
cloud development studies in Project Pre-Gondola I, 22:198 (PNE-1108)
cloud diffusion studies in, use of NRX reactor effluent for, 22:182 (UCRL-50299)
cloud motion from Buggy I Event in, aerial photographic studies of base-surge, 25:44464 (ARLV-351-18)
coal gasification in Wyoming by underground nuclear explosions in, Project Thunderbird for, 22:10423
commercial applications of nuclear explosions, review of, 21:207
commercial services and background material on, 1968 JCAE hearings on, 23:497
conference on civil engineering developments in, July 1 to Aug. 15, 1967, 22:12461 (PRNC-110)
conference on, Las Vegas, Nev., Jan. 14 to 16, 1970, 24:41508 (CONF-700101-(Vol.2))
conference on, Las Vegas, Nev., Jan. 14 to 16, 1970, 24:41468 (CONF-700101-(Vol.1))
conference on, Tucson, Ariz., March 31 to April 2, 1969, summary of, 23:26387 (CONF-690312-6)
construction of earth- and rock-fill dams by canyon slides produced by nuclear explosions, 21:28122 (SC-RR-67-24)
construction of sea-level canal in, feasibility studies of, 22:42932
containment and ground motion in Handcar Event in, compared with preshot predictions, 23:33288 (PNE-806-F)
containment and phenomenology of underground nuclear explosions in, effects of geologic structures on, 23:13900 (UCRL-50482)
containment of underground explosions in, venting mechanisms in, 23:43425 (UCRL-50604)
contaminated gas release in San Juan Basin in, hypothetical, (T), 25:48684 (ORNL-4646)
contamination of local water supplies of northwestern Alaska in Project Chariot in, 23:2457
control and monitoring of explosions in, integrated radio transmission system for, 24:41516 (CONF-700101-(Vol.2), pp 964-73)
copper in, leaching in Sloop, 21:10493(R) (UCRL-50008-66-2)
copper leaching in Project Sloop, 24:27263
copper mining and leaching operations in, 25:37493
copper mining in, description of Project Sloop for, 22:4297 (PNE-1300)
copper mining in, description of Project Sloop for, 22:27947
copper ore and shale oil processing in, feasibility study of, 22:45208(R) (ORNL-TM-2298)
copper ore mining in, feasibility of chemical, 24:16729 (UCRL-72159)
copper recovery by acid leaching of nuclearly fractured deep copper sulfide deposits in Project Sloop in, 24:41511 (CONF-700101-(Vol.2), pp 877-87)
copper recovery in, demonstration model for, 25:6445(R) (ORNL-TM-3181)
crater analysis for pre-Schooner II, 21:26018 (PNE-508)
crater ejecta and fallback from events in, simplified method for measuring particle size distribution of, 25:294 (AD-707440)
crater ejecta from Project Schooner in, distribution and movement of radioisotopes in, (E), 24:41490 (CONF-700101-(Vol.1), pp 400-21)
crater ejecta from Project Schooner in, distribution and size of, (E), 24:41561 (CONF-700101-(Vol.2), pp 1746-70)
crater ejecta from Project Sedan in, distribution and residence time of tritium in, 25:4181
crater ejecta from Project Sedan in, distribution and movement of radioisotopes in, (E), 24:41490 (CONF-700101-(Vol.1), pp 400-21)
crater ejecta from Sedan event in, measurement of tritium distribution and transport in, 25:29244 (UCRL-72572)
crater ejecta from Sedan Event in, tritium content, distribution, and residence time in, (E), 25:37512
crater excavations in, hydrologic distribution of radioisotopes around nuclear, 22:21226 (NVO-1229-87)
crater formation by Project Schooner in, comparison of calculated and measured data on, 24:41486 (CONF-700101-(Vol.1), pp 306-33)
crater formation evaluation of Pre-Schooner, 21:36184 (PNE-505-F)
crater formation from Project Palanquin, geological effects on, 21:1481 (PNE-904)
crater formation from Project Sedan, postshot drilling results from, 21:30564 (UCRL-50213)
crater formation from Project Sulky, photographic studies of, 21:1479 (PNE-710-F)
crater formation from row charges beneath a ridge, 22:51127 (SC-RR-68-449)
crater formation from row charges interrupted by a dud, 21:24126 (SC-RR-67-3)
crater formation from surface explosions in, scaling laws for, 22:40285
crater formation in nuclear row excavation experiment in, 23:494 (UCRL-71280(Summ.))
crater formation in Project Buggy in, 23:49988
crater formation in Project Scooter in, reentry operation for, 23:15995 (SC-DR-67-694)
crater formation in, air blast prediction techniques for, 23:33284 (SC-M-69-332)
crater formation in, effects of acoustic velocity and dynamic elastic moduli of rocks on, 24:9492 (UCRL-50750)
crater formation in, laboratory-scale studies of, (E), 22:8241 (PNE-5011)
crater formation in, particle size distribution of ejecta and fallback from, 24:36442 (NCG-TR-18)
crater formation in, using row charges of TNT, 22:8242 (SC-RR-67-728)
crater slopes of Sedan Project in, effects of ground motion from earthquakes and nuclear explosions on, 23:31444 (NVO-1163-138)
crater volume in row charge chemical explosions in, effects of detonation in permuted sequences on, 24:48201 (SC-RR-70-525)
cratering and ejecta mechanisms in, use of chemical explosives to study, 22:12462 (SC-DC-67-2330)
cratering calibration tests for Pre-Gondola, ground motion and structure responses during, 22:35926 (PNE-1100)
cratering calibration tests for Project Pre-Gondola, structure responses during, 21:41053 (PNE-1106)
cratering events in, system for monitoring fallout from, 24:39255
cratering experiments in, 21:36192
cratering experiments in hard rock in Project Dugout in, 23:35355 (PNE-611)
cratering experiments in Project Cabriolet, engineering properties of ejecta material from, 24:22829 (PNE-957)
cratering experiments in Project Schooner, preshot analysis of, 24:27259 (UCRL-50530(Rev.1))
cratering experiments in, meteorological requirements for fallout prediction in, 23:21821 (CONF-690406-2)
cratering experiments in, summary of data from, 24:50490
cratering experiments in, technical problems in, 23:21848 (UCRL-71491)
cratering experiments in, using simultaneous detonation of two parallel rows of charges, 24:46381 (SC-RR-70-492)
cratering explosions in Buggy and Cabriolet Projects, lidar equipment and method for tracking debris clouds from, 22:47242 (UCRL-13360)
cratering in basalt in Project Sulky, 21:26019 (PNE-720-F)
cratering in wet sand using chemical explosives, Project Zulu-II studies of, 23:15994 (NCG-TR-3)
cratering mechanisms of Projects Danny Boy, Hardhat, Scooter, and Sulky, 21:36193
cratering performance in Project Palanquin, 21:41057 (PNE-900-F(Rev.1))
cratering research in, review of, 23:49985
cratering site calibration tests in Project Pre-Gondola I for, 22:197 (PNE-1104)
cratering site for Project Cabriolet in, preshot geophysical studies of, 23:47624 (PNE-953)
cratering site radioisotopes inventory for Sedan Event in, 23:45434 (UCRL-71867)
cratering studies for Dugout and Charlie Events in, vibro-seismic technique for subsurface fracture zone determinations in, 23:9588
cratering studies from Project Danny Boy in, engineering properties of basalt for, 21:8488 (PNE-5005)
cratering studies from Project Sulky, 21:1480 (PNE-713-F)
cratering studies in dry hard rock using row-charges, Project Buggy preshot analysis for, 24:19122 (UCRL-50390(Rev.1))
cratering studies in hard, dry rock using single-charge chemical explosives, Pre-Schooner II, 22:4296 (PNE-516)
cratering studies in hard, dry rock, use of single-charge chemical explosive for, 21:6095 (PNE-507)
cratering studies in moist sand using single-row charges, 23:13893 (NCG-TR-5)
cratering studies in Pre-Gondola II in, 23:2441 (PNE-1113)
cratering studies in Pre-Gondola III in, 24:46380 (PNE-1114)
cratering studies in Project Pre-Gondola I, 22:35965 (PNE-1102)
cratering studies in Project Pre-Gondola I, 22:8240 (PNE-1107(Pt.1))
cratering studies in, prediction of ejecta ballistic boundaries for, 21:45274 (SC-RR-67-616)
cratering studies in, review of, 22:12466(T) (UCRL-Trans-10152)
cratering studies in, review of Nevada Operations Office experience with, 24:347
cratering studies in, summary of results of, 23:24333 (UCRL-71456)
cratering studies in, use of individually detonated multiple-charge arrays for, 22:10419 (SC-RR-67-727)
cratering studies in, use of row charges of TNT for, 21:8489 (SC-RR-66-415)
cratering studies in, use of row charges of TNT for, 21:8490 (SC-RR-66-477)
cratering studies in, using two-pass triple rows of buried charges in Albuquerque alluvium, 24:11713 (SC-RR-69-158)
cratering studies of Handcar, pre-Schooner II, and Sedan, 21:8491(R) (UCRL-50008-66-1)
cratering tests in wet clay—shale for Project Pre-Gondola, response during, 22:40282 (PNE-1116)
craters produced in, ground water movement through, 22:168 (CBA-1229-F-4)
damage to structures and equipment in, empirical method for prediction of, 22:27943 (TID-24483)
debris analysis from Anacostia and Kennebec events, prompt sample systems for, 22:37657 (UCRL-50441)
debris from Hutch, separation of actinides and rare earths from, 24:31447 (UCRL-50847)
debris from Schooner Event of, radioisotope retention and excretion by peccaries following ingestion of, 25:55124
decontamination of Carlsbad Site following Project Gnome in, equipment and methods for, 25:2420 (NVO-410-2)
description of activities in, during 1969, 24:29413 (TID-25422)
description of Project Bronco in, for nuclear retorting of oil shale, 23:16001
description of technology during 1967, 22:22925
description of university research and curricula on, 21:206
design and testing of concrete stem for access hole in Project Pre-Schooner II, 21:39069 (PNE-510-F)
determination of cavity size and cavity gas properties in, finite difference techniques for, 23:2448
development by USAEC, JCAE hearings on, 22:10169
development of cratering technology in, review of research for, 23:2446
development of excavation technology in, Corps of Engineers studies for, 23:2445
development of excavation technology in, Project Buggy studies for, 23:2444
development of excavation technology in, Project Cabriolet studies for, 23:2443
development of excavation technology in, recent contributions to, 23:49983
development of excavation technology in, review of, 24:41483 (CONF-700101-(Vol.1), pp 245-79)
development of excavation technology in, review of research for, 23:2455
development of gas equations of state for natural materials in, 21:19787 (UCRL-14729)
development of grout for use in, 24:39101 (UCRL-12065(Pt.3))
development of nuclear explosion technology in, calculation of air blast for, 23:2450
development of nuclear explosion technology in, review of, 23:49977 (UCRL-71901)
development of nuclear explosion technology in, review of, 24:27262
development of nuclear explosive phenomenology in, review on, 24:33820
development of nuclear explosive technology in, review of, 22:27949
development of underground nuclear explosion technology in, prediction of stress waves in earth media for, 23:2449
development of, review of U.S, 24:1972
developments in chemical applications of nuclear explosions, 22:4295(R) (ORNL-TM-2062)
developments in chemical applications of nuclear explosions, 21:30560(R) (ORNL-TM-1886)
developments in Projects Bronco and Sloop in, review of US, 22:30742
developments in, prediction of future, 24:27285
developments in, review of, 25:54828
disposition of Gnome Event site in, recommendations for, 25:37508 (NVO-1229-106(Pt.1))
distribution of close-in fallout, base surge, and throwout from Palanquin Event in, determination of postshot, 24:9544 (UCRL-50631)
distribution of ejecta from Sedan crater, 21:1485
distribution of gaseous radioisotopes in and around nuclear cavities in, 22:35964 (NVO-1229-85)
distribution of radioisotopes in cavity from underground nuclear explosion, 21:36181 (DP-1106)
drill hole for Project Rulison in, casing emplacement and cementing No. 25-95A Hayward Well, 24:2333 (PNE-R-8)
drill holes for Project Gasbuggy in, data on drilling history, logging, and casing of, 25:21221 (PNE-G-71)

drilling results from Project Sedan, postshot, 21:30564 (UCRL-50213)
dynamic stress measurements in underground granite during Hardhat Event in, 22:19000 (UCID-15283)
earth motion from Gnome shot, effect of seismic waves on, 21:8494
earth stress and ground motion in Project Pre-Gondola II, effects on survivability of nitromethane emplacement holes, 23:13890 (NP-17756)
ecology at site of Interoceanic Canal in, agricultural, 21:39369 (BMI-171-010)
ecology at site of Interoceanic Canal in, use of specific activity approach in estuarine and marine, 21:39366 (BMI-171-007)
ecology at site of Interoceanic Canal, freshwater, 21:39367 (BMI-171-008)
ecology in vicinity of Interoceanic Canal, 21:39363 (BMI-171-003)
ecology of man in Panamanian areas of Interoceanic Canal, 21:39365 (BMI-171-006)
economic aspects of Projects Gasbuggy and Schooner in, 24:4395 (PNE-3014)
economics of peaceful uses of underground nuclear explosives, 21:39072 (PNE-3005)
ecosystems in areas designated for Interoceanic Canal, terrestrial, 21:39370 (BMI-171-011)
ecosystems in coastal areas of Interoceanic Canal, study in marine, 21:39364 (BMI-171-005)
effects of Gasbuggy and Rulison Events on environment, answers to Colorado Committee for Environmental Information on, 23:47663 (PNE-G-48)
effects of Pre-Gondola II Event in, summary of measured air blast, cloud development, cratering, and seismic, 25:26407 (PNE-1112)
effects of Pre-Gondola III Phase II Event in, summary of measured air blast, cloud development, cratering, geologic, and seismic, 25:26408 (PNE-1117)
effects of Project Rulison on government mine at Rifle, Colorado, 24:29415 (USBM-1001)
effects of Project Wagon Wheel in, on surrounding sandstone, prediction of explosion, 25:34770 (UCRL-50993)
effects of underground explosions, summary of, 22:47261
effects of underground nuclear explosions in, USAEC comprehensive safety program for protecting public from, 25:44468 (TID-25708)
effects on content of β and γ radioactivity in atmosphere and milk in USA during December 1968, Schooner Event of, 23:33710
effects on environment, summary of possible beneficial, 24:41469 (CONF-700101-(Vol.1), pp 1-4)
emplacement and stemming of explosives in, methods for, 24:41517 (CONF-700101-(Vol.2), pp 974-8)
emplacement of nuclear explosives in, design of large-diameter casing for, 23:2454
emplacement of nuclear explosives in, economics of drilling small and intermediate diameter holes for, 23:486 (PNE-3012(Vol.1))
engineering and geologic investigations for project Pre-Schooner, 21:36184 (PNE-505-F)
engineering and geologic properties of dry rock in, for cratering experiments, Palanquin Event preshot studies of, 22:51124 (PNE-905)
engineering and geologic properties studies in Project Pre-Gondola I in, 23:35356 (PNE-1103)
engineering and geologic property studies in Project Dugout for, 22:40281 (PNE-602-F)
engineering applications in, development of technology for, 23:24335 (UCRL-71628)
engineering applications of nuclear explosions in, data summary on, 24:31527 (UCRL-50853)
engineering applications of nuclear explosives in, environmental contamination from, 22:12463 (UCID-15251)
engineering experiments in, technical problems in underground, 23:21847 (UCRL-71439)
engineering organization of nuclear operations in, 24:41514 (CONF-700101-(Vol.2), pp 931-7)
engineering planning directive for Project Rulison, 24:2334 (PNE-R-10)
engineering properties of nuclear craters in, 22:37898 (PNE-5012-I)
engineering properties of nuclear craters in, 21:39073 (PNE-5009)
engineering properties of Project Sulky, preshot and postshot, 21:26019 (PNE-720-F)
engineering requirements and standards for single-shot underground nuclear explosions in, 24:11714 (UCRL-50743)
engineering uses for nuclear explosives in, review of developments in, 22:45211
environment contamination by, methods for control of, 24:22772 (SWRHL-82, pp 280-308)
equations of state of rocks from underground explosions, 21:10492 (UCRL-14711)
evaluation from industrial viewpoint, 24:41471 (CONF-700101-(Vol.1), pp 13-23)
evaluation of, 23:11683
evaluation of core data, physical properties, and oil yield of Bronco BR-1 hole in, 23:21808 (TID-24709)
excavation in, close-in airblast measurements for buried row charges for large-scale, 23:29033 (SC-DC-68-2467)
excavation of Atlantic—Pacific sea—level canal in, Canal Study Commission recommendations on, 25:44475 (TID-25722)
excavation of Atlantic—Pacific sea-level canal in, research program for studying environmental effects of, 25:44473 (TID-25715(Vol.5))
excavation of Atlantic—Pacific sea-level canal in, engineering feasibility studies of Routes 17, 23, and 25 for, 25:44472 (TID-25715(Vol.4))
excavation of Atlantic—Pacific sea-level canal in, effects of hydrologic and tidal environment on feasibility of, 25:44470 (TID-25715(Vol.2))
excavation of Atlantic—Pacific sea-level canal in, cost and organization of engineering feasibility study of, 25:44473 (TID-25715(Vol.5))
excavation of Elat—Dead Sea Waterway in, economics of nuclear method for, 23:2452
excavation of sea-level canal by, Panama route site studies for evaluating feasibility of, 25:44469 (TID-25715(Vol.1))
excavation of sea-level canal, Project Cabriolet studies for, 21:36192
excavation of sea-level canals in, development of excavation technology for, 23:2447
excavation of sea-level Isthmian canal in, computer simulation of optimum detonation schedules for, 24:9541 (HN-20-213)
excavation technology in, review of, 24:346
excavation technology in, review of, 24:22837 (SWRHL-82, pp 21-47)
excavations using nuclear explosives, feasibility of, 22:10421
explosion cloud detection and analysis in Project pre-Gondola in, airborne lidar method for, 22:21227 (PNE-1119)
explosion clouds from Project Buggy in, lidar observations of, 24:36448 (UCRL-13451)
explosion clouds from Project Buggy in, radioactivity of, 24:39079 (PNE-330)
explosion clouds from Project Cabriolet in, configuration and radioactivity of, 23:47645 (PNE-955)
explosion clouds from Project Pre-Gondola, use of lidar for detecting, 21:39071 (PNE-1110)
explosion clouds from Project Schooner, radioisotope deposition and diffusion from, 24:22791 (UCRL-71878)
explosion performance in Gasbuggy event of, summary of, 22:30740
explosion performance in Project Gasbuggy, review of, 23:24334 (UCRL-71489)
explosive emplacement in, economic aspects of nuclear, 24:41475 (CONF-700101-(Vol.1), pp 68-74)
explosive emplacement in, economics and techniques of rock drilling for, 23:35357 (PNE-5004-F)
explosives for, status of development of, 24:41472 (CONF-700101-(Vol.1), pp 24-8)
fallout at 2,600 to 19,000 feet from ground zero in Project Sedan, physical and radiochemical measurements on, 23:49973 (AD-690483)
fallout distribution from Sedan, 21:25990 (CEX-62.80-c)
fallout from 170 kt nuclear crater in, mass extraction rates for radioisotopes in, 23:31446 (UCRL-71659)
fallout from Buggy I Event in, off-site monitoring of, 25:15786 (PNE-327)
fallout from Cabriolet experiment in, computer calculations of precipitation scavenging of, 24:41434 (UCRL-72603)
fallout from cratering events in, equipment and method for measuring deposition and resuspension of, 24:20929 (UCRL-71824)
fallout from nuclear explosions in, model for deposition, diffusion, and transport of, 24:22790 (SWRHL-82, pp 249-79)
fallout from Operation Pinstripe, biological monitoring of, 24:34198
fallout from Palaquin event in, on Artemisia effects, 23:33904 (CEX-68.4)
fallout from Project Danny Boy in, deposition, particle size distribution, and radioactivity of, (E), 24:46356 (POR-1818)
fallout from Project Gasbuggy in, equipment and methods for off-site environmental monitoring of, 24:41433 (SWRHL-100-r)
fallout from Project Schooner in, distribution of radioisotopes in, 25:37513
fallout from Project Schooner in, distribution of radioisotopes in, 25:4180
fallout from Project Schooner in, measurement of, 24:41486 (CONF-700101-(Vol.1), pp 306-33)
fallout from Project Schooner, distribution and redistribution of, (E), 25:10716 (UCRL-72534)
fallout from Project Schooner, effects on soil thermoluminescence of local, 24:19121 (PNE-526)
fallout from Project Sedan in, radiological characteristics of, 21:12546 (PNE-225-F)
fallout from Projects Danny Boy, Palanquin, and Sedan in, fractionation of ground level, 22:27944 (UCRL-50409)
fallout from Schooner Event in, data from off-site environmental monitoring of, 25:57574 (PNE-524)
fallout from Schooner Event in, program for collection and analysis of long-range, 25:26404 (PNE-527)
fallout from Schooner event, biological studies of, 24:691 (UCRL-50718)
fallout from Sedan Event in, radiation monitoring of on-site, 24:41563 (PNE-203-F)
fallout monitoring following Project Schooner underground explosion in, 25:46826(R) (SWRHL-83-r)
fallout patterns for Danny Boy and Sedan events, 21:36188 (UCRL-7804)
fallout radiation dose to man from events of, computer calculations for iodine-131 and tritium, 22:33814 (ORNL-TM-2229)
fallout uptake from Schooner Event by fetuses, tissue, and milk following ingestion by dairy cattle, 25:13396 (UCRL-72511)
feasibility of Gasbuggy, review of, 22:30738
field testing system for, data tabulation on economic, equipment, and personnel aspects of, 25:57601 (LMSC-D-177630(Vol.2))
flaring program in Project Rulison, court decision on postshot, 24:39100 (PNE-R-29)
fracturing and in place retorting of oil shales in, design of Project Bronco for, 22:8244 (UCRL-50339)
fracturing of subsurface oil shales in Colorado, use of nuclear explosions for, 21:19784 (TEI-868)
gamma radiation exposure rate in Project Schooner crater in, prediction and measurement of, 24:41550 (CONF-700101-(Vol.2), pp 1544-62)
gas analysis in Project Gasbuggy by mass spectrometry, 25:44476 (UCRL-50635(Rev.2))
gas composition in Project Gasbuggy chimney in, model for, 25:8384 (PNE-G-68)
gas dynamics calculations in, PUFL computer program for, 24:25154 (UCRL-50802)
gas field equipment for, effects of underground nuclear explosions on, 21:4645 (UCRL-14429)
gas flow in Project Gasbuggy, TRUMP computer program for calculation of, 24:367 (UCRL-50664)
gas production stimulation in Gasbuggy project, 21:17748(R) (UCRL-50008-67-1)
gas production stimulation in Gasbuggy, environment surveillance for radioactivity following, 24:31893
gas production stimulation in, economic potentials of, 21:43080 (PNE-3007)
gas quality analysis and evaluation in Project Gasbuggy in, 23:31452 (UCRL-50635)
gas quality analysis and evaluation program for Gasbuggy, 21:28123 (UCID-15136)
gas recovery in Gasbuggy, 21:10493(R) (UCRL-50008-66-2)
gas release from Rulison, analysis of calibration flaring samples from, 25:23523 (UCRL-50986)
gas storage cavity creation by Project Ketch underground nuclear explosion, 21:36186 (PNE-1200)
gas storage in Ketch, terminal, 21:10493(R) (UCRL-50008-66-2)
gas storage in underground cavities formed in, economics of, 21:4644(R) (UCRL-13242)
Gasbuggy site analysis in, 22:8239 (PNE-1001)
geologic conditions at Nye County, Nevada site for, drill hole data on, 23:43403 (USGS-474-29)
geologic properties of Project Sulky, preshot and postshot, 21:26019 (PNE-720-F)
geophysical measurements downhole at Pre-Gondola I site, 21:36185 (PNE-1111)
geophysical properties of rocks at Project Payette site in, instrumentation for in situ measurement of, 24:16679 (USGS-474-61)
geophysical properties of rocks of Project Palanquin cratering site in, preshot studies of, 23:7655 (PNE-906)
geophysical research program for, 25:13104 (UCRL-50855)
ground displacement and seismic energy from Gnome explosion, 21:4641
ground displacement in Gnome explosion, measurement of, 21:4641
ground motion and close-in physical effects of Project Rulison in, data acquisition and processing for studies of, 24:27254 (NVO-1163-206)
ground motion and stress measurements in Project Pre-Gondola II, 23:43418 (AD-682726)
ground motion calculations for, development of computer programs for, 23:33283 (NVO-99-11)
ground motion determination for Project Palanquin, 21:41057 (PNE-900-F(Rev.1))
ground motion during Buggy I Event in, seismic data analysis for, 24:7540 (PNE-326)
ground motion from Cabriolet Event, data analysis on, 24:7536 (PNE-958)
ground motion from Gasbuggy Event in, structural damage to gas wells and mines from, (E), 24:343 (PNE-1011)
ground motion from Milrow Event, 24:22826 (NVO-1163-199)
ground motion from nuclear explosions in, methods for prediction of, 24:22840 (SWRHL-82, pp 334-56)
ground motion from nuclear explosions in, prediction of structural damage from, 24:22841 (SWRHL-82, pp 357-90)
ground motion from pre-Gondola II high explosive cratering event in, data analysis on, 22:51126 (PNE-1115)
ground motion from Project Benham in, aerial photography method for determining, 25:284 (AD-709735)
ground motion from Project Buggy in, accelerometer and photographic measurements of, 24:14108 (PNE-325)
ground motion from Project Gasbuggy in, structural response studies of, 24:16727 (PNE-1012)
ground motion from Project Rulison in, damage to buildings and earth and hydraulic structures by, 24:16726 (JAB-99-76)
ground motion from Project Rulison in, data processing for studies of, 24:16721 (NVO-1163-197)
ground motion from Project Rulison in, effects on nearby gas wells, (E), 25:10737 (PNE-R-39, Pt.2)
ground motion from Project Rulison in, evaluation of structural damage to nearby mines and wells from, 25:10735 (PNE-R-39)
ground motion from Project Rulison in, evaluation of structural damage to mines from, 25:10736 (PNE-R-39, Pt.1)
ground motion from Project Rulison in, structural damage to buildings from, 24:22835 (PNE-R-21)
ground motion from Project Rulison, safety evaluation of resistance of Harvey Gap Dam to, 24:39097 (JAB-99-63)
ground motion from proposed detonations in Piceance Creek basin, Colo., methods for predicting, 25:15801 (NVO-1163-TM-18)
ground motion from Rulison Event in, at Rifle Gap Dam, Colo., (E), 25:26410 (PNE-R-47)
ground motion from Rulison Event in, effects on cracks in buildings in southern Nevada and Rulison, Colo., (E), 25:44465 (JAB-99-48)
ground motion from Rulison Event in, measurement and prediction of structural damage from, 25:26402 (JAB-99-78)
ground motion from Rulison Event, at Tosco mine and tower stations, pseudorelative velocity spectra for, 25:54813 (PNE-R-51)
ground motion from Salmon Event, spectral response for, 23:9591 (NVO-99-27)
ground motion in Project Cabriolet in, 23:49987

ground motion measurements at Fort Peck Dam in, instruments for detection of explosion-induced, 22:33192 (UCRL-13329(App.A))
ground motion measurements at Fort Peck Dam in, seismic method for, 22:33193 (UCRL-13329(Pt.1))
ground motion measurements during Project Pre-Gondola I, 21:39070 (PNE-1105)
ground motion measurements in Project Pre-Gondola I, high-speed photographic methods for, 23:17637 (PNE-1107(Pt.2))
ground motion measurements in Project Pre-Schooner in, 23:11682 (PNE-506-F)
ground motion measurements in Project Pre-Schooner II, 23:484 (PNE-513)
ground motion, earth stress, and pore pressure measurements in Project Pre-Gondola I, 22:197 (PNE-1104)
ground motions and close-in physical effects of Project Gasbuggy in, comparison of predicted and observed, 24:11712 (PNE-1010)
ground motions from Project Rulison in, damage to buildings and earth and hydraulic structures from, 25:21220 (JAB-99-61)
ground motions from Schooner event in, comparison with similar events, 24:36443 (PNE-522)
ground shock measurements in Project Pre-Schooner II, development of instrumentation plan for, 23:9592 (PNE-514)
ground surface effects of Project Rulison in, aerial photographic studies of close-in, 24:50477 (NVO-1163-TM-23)
ground water analysis in, physicochemical problems associated with, 24:41495 (CONF-700101-(Vol.1), pp 493-504)
ground water contamination from Gasbuggy Event in, evaluation of San Juan Basin, 25:26406 (PNE-1009)
ground water contamination from Project Rulison in, preshot evaluation of, 24:5769 (NVO-1229-108)
ground water contamination from underground nuclear explosions, monitoring system for, 22:23185 (HNS-1229-43)
history and current status of, review of, 24:22836 (SWRHL-82, pp 9-20)
history and current status of, review of, 25:15810
history of, summary, 23:7376
hydrologic conditions at Project Rulison site, preshot and postshot studies of, 24:22775 (USGS-474-68)
hydrologic studies of Project Gasbuggy postshot well GB-3, 24:29414 (UCRL-50812)
hydrologic testing of Gasbuggy Project site, 23:9536 (PNE-G-26)
hydrologic tests in hole GB-2, for Project Gasbuggy, 23:9537 (PNE-G-27)
hydrological testing of Gasbuggy Project site, 23:9535 (PNE-G-25)
hydrology of Project Gasbuggy site in Rio Arriba County, New Mexico, 24:19084 (PNE-1013)
industrial and scientific applications for nuclear explosives in, 21:16037
interoceanic canal excavation, effects on radioisotope contamination of environment following, 24:29721 (BMI-171-29)
leaching of radioisotopes from Sedan crater ejecta in, 22:40284 (UCRL-70630)
legal aspects of, 23:33289
legal aspects of domestic and foreign uses of, review of proposed legislation on, 25:13137 (NP-18659)
legal aspects of domestic and foreign utilization of, review of May 8 to 9, 1969 JCAE hearings on, 24:20933
meteorological conditions at Project Rulison site, prediction of, 24:25125 (ARLV-351-4)
meteorological conditions for Gasbuggy Event in, predictions of, 25:37509 (PNE-1008)
mining applications in, development of, 24:41509 (CONF-700101-(Vol.2), pp 859-63)
monitoring local fallout from Project Schooner at Nevada Test Site, 25:42717 (EGG-1183-2272)
natural gas and oil production stimulation in, program status for, 23:9600
natural gas and oil production stimulation in, use of nuclear explosives for, 23:6237
natural gas flow in Gasbuggy-2RS hole of, flowmeter calibration and testing for measurement of, 23:2442 (PNE-G-22)
natural gas from Project Gasbuggy in, methods for decontamination of, 24:7542 (UCRL-72087)
natural gas from Project Wagon Wheel in, predictions for quality and radioactivity of, 25:51663 (UCRL-51067)
natural gas production and reservoir evaluation in, review of Project Gasbuggy for, 23:6238
natural gas production by Project Gasbuggy drill hole GB-ER in, flow and volume data for, 25:21222 (PNE-G-72)
natural gas production in Project Gasbuggy reservoir, evaluation of model for simulation of postshot, 24:22830 (PNE-G-57)
natural gas production in Project Gasbuggy, flow and pressure buildup data for, 23:493 (PNE-G-20)
natural gas production in, description of Project Gasbuggy for, 22:51130
natural gas production in, procedures for conducting Project Gasbuggy experiments for, 22:12464 (UCRL-50334)
natural gas production in, safety evaluation of consumer products from Project Gasbuggy for, 23:29474(R) (ORNL-TM-2427)
natural gas production in, status of Project Gasbuggy for, 23:2451
natural gas production stimulation by Project Gasbuggy in, economic necessity for, 25:37520
natural gas production stimulation by Rulison Event in, post-shot well test data for, 25:54817 (PNE-R-52)
natural gas production stimulation in Project Gasbuggy, postshot evaluation of, 24:20926 (PNE-G-54)
natural gas production stimulation in Project Gasbuggy, postshot evaluation of rock fracture for, 23:24340
natural gas production stimulation in Project Gasbuggy, numerical model for simulating transient gas flow in underground reservoir following, 25:8387 (UCRL-71868)
natural gas production stimulation in Project Gasbuggy, evaluation of, 23:49982
natural gas production stimulation in Project Gasbuggy, hazards evaluation and safety program for, 23:15998 (UCRL-71356)
natural gas production stimulation in Project Gasbuggy, postshot geologic effects from, 23:26389 (PNE-G-31)
natural gas production stimulation in Project Rulison, preshot site evaluation of R-EX well testing for, 24:22831 (PNE-R-7)
natural gas production stimulation in Project Rulison, 24:27263
natural gas production stimulation in Project Rulison in, review of, 23:31445 (PNE-R-1)
natural gas production stimulation in Rulison Project, site geologic and hydrologic studies for, 23:26392 (USGS-474-16)
natural gas production stimulation in, cost-benefit model for analysis of, 23:487 (PNE-3013)
natural gas production stimulation in, description of Project Rulison for, 24:5771
natural gas production stimulation in, description of Project Gasbuggy for, 23:488 (PNE-G-4)
natural gas production stimulation in, economic aspects of Project Rulison for, 24:22834 (PNE-R-20)
natural gas production stimulation in, evaluation of effectiveness and safety of Project Gasbuggy for, 24:14109 (UCRL-72175)
natural gas production stimulation in, evaluation of Projects Gasbuggy and Rulison experience with, 25:51664 (UCRL-72769(Rev.1))
natural gas production stimulation in, feasibility of Project Rulison for, 24:22832 (PNE-R-12)
natural gas production stimulation in, geology of Project Dragon Trail site for, 23:24303 (UCRL-50566)
natural gas production stimulation in, history of Project Rulison, 25:51660 (CONF-710428-, Paper 2)
natural gas production stimulation in, postshot review of Project Gasbuggy for, 23:26391 (UCRL-71624)
natural gas production stimulation in, preliminary report on Project Rulison for, 24:22833 (PNE-R-19)
natural gas production stimulation in, Project Gasbuggy drilling and testing operations for, 23:490 (PNE-G-9)
natural gas production stimulation in, Project Gasbuggy test results for, 22:18999 (PNE-1003)
natural gas production stimulation in, Project Gasbuggy gas flow and pressure build-up data tabulations on, Sept. 1967 to Sept. 1968, 23:489 (PNE-G-8)
natural gas production stimulation in, Project Gasbuggy postshot reservoir evaluation of, 23:492 (PNE-G-13)
natural gas production stimulation in, Project Gasbuggy postshot geologic investigations for, 23:496 (UCRL-71354)
natural gas production stimulation in, public hazards from, 24:37003 (ORNL-4586, pp 118-25)
natural gas production stimulation in, purging of radioactivity from wells following, (E/T), 23:15996 (UCRL-50519)
natural gas production stimulation in, research and development program for, 25:39620 (UCRL-50966)
natural gas production stimulation in, review of Project Gasbuggy for, 23:24334 (UCRL-71489)
natural gas production stimulation in, review on projects for, 24:16732
natural gas quality analysis and evaluation for Project Gasbuggy in, 24:16728 (UCRL-50635(Rev.1))
natural gas quality in Project Gasbuggy in, radiochemical studies of, 23:495 (UCRL-71314(Rev.1))
natural gas quality program for Project Gasbuggy, 24:20930 (UCRL-72153)
natural gas recovery in Project Gasbuggy, feasibility studies of, 22:42927
natural gas recovery in, description of Gasbuggy Project for, 22:14603
natural gas storage in cavity formed by nuclear explosions in, tritium contamination studies during, 25:23723(R) (ORNL-TM-3337)
natural gas storage in nuclear cavities in, economics of, 22:14602
natural gas storage in nuclear cavities in, feasibility study of, 22:27942 (PNE-3008)
natural gas storage in Project Ketch, economic and feasibility studies of underground, 22:42927
natural gas storage in underground nuclear cavities in Project Ketch, 24:27263
natural gas storage in underground nuclear cavities in, economic study of, 23:2453
natural gas storage in underground nuclear explosion-created cavities in, economics of, 22:42926(R) (UCRL-13354)
neutron activation products from Sedan, uptake by plants of, 21:16039
neutron shielding in, Monte Carlo study of optimum moderator-to-absorber ratio for, 25:38537
nuclear chimney purging methods in, (E), 22:21228 (UCID-15259)
nuclear cratering in, US Army Corps of Engineers research on, 23:49984
nuclear debris from Buggy excavation of, biological availability of fallout γ-emitting radioisotopes to peccaries following single injection of, 25:35088
nuclear debris from Schooner Event of, comparison of fallout γ-emitting radioisotope excretion in feces and urine of peccaries following single ingestion of, 25:35089
nuclear debris from Schooner Event of, distribution of fallout γ-emitting radioisotopes in tissues of swine following field exposure to, 25:35090
nuclear debris from Schooner Event of, radioisotope content of tissues and excreta in cattle following ingestion of, 25:37727
nuclear excavation in, review of technical problems in, 23:21843 (SC-DC-69-1716)
nuclear explosive emplacement in, methods and economics of, 23:33287 (NCG-TR-10)
nuclear land channeling in, EUCLID computer program for calculations for, 23:13901 (UCRL-50523)
nuclear retorting of oil shales in Project Bronco in, 24:41539 (CONF-700101-(Vol.2), pp 1343-63)
ocean surface effects generated by Milrow Event in, 24:41562 (NVO-289-6)
oil and gas reservoir engineering, 21:8491(R) (UCRL-50008-66-1)
oil and natural gas production stimulation in Project Dragon Trail, 24:27263
oil production stimulation in Bronco project, 21:17748(R) (UCRL-50008-67-1)
oil recovery from oil shales in, description of Project Bronco for, 22:6507 (PNE-1400)
oil recovery in, description of Project Bronco for, 23:4760
oil recovery in, device for measuring oil shale permeability for, 23:17641 (UCRL-50562)
oil recovery in, review on projects for, 24:16732
oil shale fracturing and retorting in Project Bronco, 24:27263
oil shale fracturing and retorting in Project Bronco, 23:16001
oil shale retorting in Bronco, 21:10493(R) (UCRL-50008-66-2)
operation plan for Project Rulison in, 24:4396 (PNE-R-11)
operations plan for excavation of Route 17A canal in Panama, 24:2331 (HN-20-210)
operations plan for excavation of Route 25E sea-level canal in Panama, 24:2332 (HN-20-211)
particle motions from underground nuclear explosions in, scaling equations for free-field, 23:17642 (UCRL-50563)
performance of commercially-used nuclear explosives for, liability of USAEC for, 24:41520 (CONF-700101-(Vol.2), pp 1014-23)
petroleum production from oil shales using underground nuclear explosions, 22:10422
photographic studies from Project Sulky, 21:1479 (PNE-710-F)
photography of Project Palanquin in, instrumentation for, 24:36444 (PNE-908-F)
planning and program directives for Project Gasbuggy, 23:26390 (PNE-G-41)
plans for Project Rulison, evaluation and post-shot, 24:11711 (NVO-61)
political and public developments in, review of, 24:22842 (SWRHL-82, pp 391-400)
present status and future of, review of, 24:41470 (CONF-700101-(Vol.1), pp 5-12)
production of gases from Project Gasbuggy, consumer usafe evaluation of, (T), 23:35707(R) (ORNL-TM-2513)
production of heavy radioisotopes in Hutch Event in, 24:41535 (CONF-700101-(Vol.2), pp 1283-94)
production of heavy radioisotopes in, feasibility study of, 24:41534 (CONF-700101-(Vol.2), pp 1269-82)
production of radioisotopes in Hutch Event in, 24:41536 (CONF-700101-(Vol.2), pp 1295-1305)
production of underground cavities for waste disposal in, use of nuclear explosions for, 22:40286
program status at LRL, review of, 21:43081(R) (UCRL-50008-67-3)
public health aspects of civilian applications in, 22:2261 (CONF-671029-1)
public health aspects of, symposium on, 24:23141 (SWRHL-82)
public information activities in, development and growth of, 24:27272
public safety aspects of Project Rulison in, review of controversy concerning, 25:29248
radiation and shock wave hazards in, review of protective measures for, 22:12466(T) (UCRL-Trans-10152)
radiation dose equivalent calculations for use of gas from, effects of rate of gas withdrawal on, 23:38569(R) (ORNL-TM-2657)
radiation dose estimations in feasibility evaluations of, use of EXREM computer program for external β and γ, 22:43308(R) (ORNL-TM-2249)
radiation dose in ejecta and mammals from Schooner Project, measurement of, 24:653 (UCRL-50718, pp 43-56)
radiation dose to human population from application of, use of EXREM and INREM programs to determine external and internal β and γ, 24:23196 (SWRHL-82, pp 550-84)
radiation dose to man from excavation applications of, methods for monitoring potential, 25:44479 (UCRL-51068)
radiation dose to man from Project Rulison, calculation of absorbed fallout tritium β, 24:39472 (UCRL-50791)
radiation dose to population from nuclear explosions in construction of canals, computer codes for estimation of, 22:51568 (K-1752)
radiation doses from proposed nuclear explosions for construction of Atlantic—Pacific interoceanic canal, 22:6436 (ORNL-4168, pp 1-60)
radiation doses from, computer programs for estimation of, 23:9681 (ORNL-4316, pp 1-69)
radiation dosimetry in mammals at Sedan site, 21:28446 (UCRL-70292)
radiation effects on biological and ecological systems reinvading detonation site following cratering event in, effects of time on, 23:29476 (UCRL-71443)
radiation effects on disease incidence and nonspecific life-shortening in man following Project Rulison, role of food chain and inhalation pathway doses in, 24:39472 (UCRL-50791)
radiation effects on man associated with Ketch, quantitative evaluation of ionizing, 22:51876 (UCID-15325)
radiation hazards from, to human populations, 24:39460 (ORNL-4446, pp 26-39)

radiation hazards to man from, role of state and local government to development of safety programs for protection against, 24:23146 (SWRHL-82, pp 487-97)
radiation hazards to personnel of, from underground nuclear detonations, on-site safety and surveillance programs for protection against, 24:23224 (SWRHL-82, pp 460-77)
radiation levels from Gasbuggy Event in, predictions of surface, 25:37509 (PNE-1008)
radiation monitoring equipment and services for GASBUGGY, description of, 24:484 (NVO-294-1)
radiation monitoring in Project Palanquin in, off- and on-site, 24:39080 (PNE-911-F)
radiation monitoring of environs of Project Gasbuggy, preshot and postshot, 24:22845 (SWRHL-99-r)
radiation monitoring of environs of Project Rulison in, gross α and β, 25:44443 (USGS-474-107)
radiation monitoring of environs of Project Rulison in, gross α and β, 25:44444 (USGS-474-108)
radiation monitoring of environs of Rulison event of, gross α and β, 24:23131 (BMI-171-201)
radiation monitoring of Gasbuggy-2 Redrill in, off-site, 24:44127 (SWRHL-105-r)
radiation monitoring of Project Palanquin, off-site, 24:36445 (PNE-910-F)
radiation monitoring of Project Sedan Event, 23:7654 (PNE-200-F)
radiation monitoring of Project Sulky in, off-site, 23:4756 (PNE-715-F)
radiation monitoring of second Project Rulison Event in, equipment and methods for, 24:48199 (NVO-294-4)
radiation monitoring of surface waters and precipitation during reentry drilling at Project Rulison site, 25:34728 (USGS-474-101)
radiation monitoring off-site following Milrow Event of, 24:39507 (SWRHL-95-r)
radiation protection standards for, application of basic, 24:9840 (CONF-690303-, pp 63-72)
radiation safety in, evaluation of, 24:33821
radiation safety problems encountered in, 25:13429
radiation safety programs in, evaluation of, 23:29534 (BNWL-SA-2360)
radioactive cloud measurements in Project Cabriolet in, 23:49987
radioactive contamination of environment by, evaluation of, 24:41489 (CONF-700101-(Vol.1), pp 375-80)
radioactive debris from Schooner Event in, metabolism in peccaries following ingestion of, 25:46690
radioactive effluents from Cabriolet Event, spectroradiometric method for detection of, 24:4394 (PNE-954)
radioactive material distribution around cavity formed by underground nuclear explosions, 21:30559 (HNS-1229-47(Suppl.1))
radioactive particles produced in cratering events in, analysis of, 23:29476 (UCRL-71443)
radioactivity and size distribution of granite particles in chimney rubble from Piledriver Event in, 24:41512 (CONF-700101-(Vol.2), pp 888-908)
radioactivity content of atmosphere from Project Rulison, prediction of, 24:25125 (ARLV-351-4)
radioactivity distribution from Project Sulky, 21:26019 (PNE-720-F)
radioactivity from excavation events in, source, transport, diffusion, and deposition of, 24:31526 (UCRL-50230(Rev.1))
radioactivity from nuclear explosion in, review of methods for reduction of, 24:41551 (CONF-700101-(Vol.2), pp 1563-8)
radioactivity, air blast, seismic shock, and ground water contamination in, lecture notes on hazards of, 22:199 (TID-23748)
radioisotope availability in dogs from Project Cabriolet, metabolism studies on, 25:29456
radioisotope contamination in environment following cratering event in, effects of time on deposition, redistribution, and transport of fallout, 23:29476 (UCRL-71443)
radioisotope content and transport in ground water near chimney of Project Rulison, 24:48544 (SWRHL-96)
radioisotope content of debris of Schooner event, effects of, on dairy cattle, 24:654 (UCRL-50718, pp 57-8)
radioisotope content of Gasbuggy chimney or formation gas, data tabulation on, 25:44476 (UCRL-50635(Rev.2))
radioisotope content of natural gases from Gasbuggy cavity of, krypton-85 and tritium, 24:23185(R) (ORNL-TM-2862)
radioisotope metabolism in aquatic animals following cratering event in, fallout, 23:29476 (UCRL-71443)
radioisotope metabolism in dogs, goats, and swine following ingestion of debris from cratering event in, fallout, 23:29476 (UCRL-71443)
radioisotope movement in Project Milrow site on Amchitka Island, models for, 24:22770 (NVO-1229-135)
radioisotope movement in Project Rulison cratering site, prediction of, 24:22769 (NVO-1229-131)
radioisotope production in Project Gasbuggy and Sloop, 23:21846 (UCRL-71434)
radioisotope production in Project Gasbuggy in, nongaseous, 23:31451 (UCRL-50634)
radioisotope production in Project Gasbuggy, nongaseous, 23:21841 (PNE-G-30)
radioisotope production in, evaluation of neutron cross section data for predicting, 25:48686 (UCRL-73022)
radioisotope production in, method for calculation of, 24:22838 (SWRHL-82, pp 207-22)
radiological monitoring for Project Gasbuggy in, program for off-site, 23:40878 (PNE-G-46)
radiological safety and medical services for Project Milrow, 24:23215 (NVO-294-3)
radiological safety and resident evacuation program for detonation phase of Project Rulison, 24:14483 (SWRHL-94-r)
radiological safety aspects of Ketch Study in, responsibility of State Health Department in evaluating, 24:23234 (SWRHL-82, pp 729-35)
radiological safety aspects of Rulison event of, 24:23131 (BMI-171-201)
radiological safety aspects of, in relation to blast effects, ecological damage, and public health, basis for philosophy of, 24:23143 (SWRHL-82, pp 176-184)
radiological safety aspects of, in relation to public health, 24:23142 (SWRHL-82, pp 1-8)
radiological safety aspects of, state participation in planning environmental and human, 24:23150 (SWRHL-82, pp 736-51)
radiological safety considerations in expanding industrial applications of, role of industry in formulation of public health protection codes relating to, 24:23149 (SWRHL-82, pp 697-712)
radiological safety in, venting and fallout prediction for, 23:21838 (CONF-690312-1)
radiological safety of interoceanic canal construction using nuclear explosives, 25:18989 (ORNL-4584, pp 42-56)
radiological safety of natural gas produced by Gasbuggy for home heating and production of petrochemicals, 25:18989 (ORNL-4584, pp 42-56)
radiological safety of Project Rulison in, evaluation and post-shot plans for, 24:11711 (NVO-61)
radiological safety studies relating to, evaluation of pre- and post-detonation, 24:23148 (SWRHL-82, pp 652-63)
radionuclide reactions with chimney gases following Gasbuggy detonation, 24:20878 (UCRL-72152)
radon-222 content in natural gas, pre-Gasbuggy baseline, 22:25853
reentry operations for Rulison Event chimney in, summary of, 25:26409 (PNE-R-45)
research and development, hearings on AEC authorizing legislation for fiscal 1970, 24:2089
research on use of nuclear explosives in, 21:43081(R) (UCRL-50008-67-3)
research on use of underground nuclear explosions, 21:36189 (UCRL-50276)
research on use of underground nuclear explosions in, 21:1484(T) (AEC-tr-6777)
research program at Puerto Rico Nuclear Center, 23:26386 (CONF-690312-5)
research program in, 21:8491(R) (UCRL-50008-66-1)
research programs in, review of, 25:54830
research progress on, 25:54816 (ORNL-4682, pp 182-6)
review, 22:4309 (TID-24102)
review of status of and reports published on, 21:30563(R) (UCRL-50008-67-2)
review of, 1965 JCAE hearings on, 22:10424
rock fracture and spalling in Greeley Event, 23:13895 (NTS-196)
rock fracture in Faultless Event, 23:13897 (TID-24360)
rock fracture in lower part of Piledriver Event cavity, failure mechanisms in, 24:20928 (UCRL-50765)
rock fracturing in Project Gasbuggy in, postshot measurements of micro-scale, 25:4178
rock fracturing in Project Gasbuggy in, postshot measurements of micro-scale, 25:37515
rock fracturing in Project Gasbuggy in, postshot studies of, (E), 24:50480 (UCRL-50893)
rock permeability at Project Gasbuggy site in, measurements of preshot and postshot, 25:6448 (UCRL-50946)
rock permeability changes in Hardhat, 21:8491(R) (UCRL-50008-66-1)
rock properties for use in, effect of deformation environment on, 24:16677 (UCRL-72164)
rock properties of Wagon Wheel Hole No. 1, effects of deformation on, 25:39597 (UCRL-51014)
row charge experiments in, for excavation studies, 21:19785 (UCRL-12065(Pt.2))
safety analysis of Gasbuggy event, 23:491 (PNE-G-12)
safety evaluations for Schooner operation, 25:4435
safety evaluations for Schooner operation, 25:4436
safety hazards of Project Rulison in, evaluation of radiological and seismic, 23:43424 (PNE-R-4)
safety plan for Gasbuggy event in, off-site and on-site, 23:31801 (PNE-G-33)
safety program for Project Rulison in, 24:41564 (PNE-R-31)
safety standards during pre- and post-detonation phases of, role of Public Health Service in enforcing and evaluating public health, 24:23233 (SWRHL-82, pp 721-8)
sandstone outcroppings at Rulison site in, relations with reservoir performance characteristics, (E), 25:21157 (PNE-R-37)
Sedan Project, tritium release to environment by, use of fruits and vegetables for measuring, 24:7782
seismic activity near Project Rulison site in, Sept. 1969, 24:41459 (CGS-746-5)
seismic analysis for Project Gasbuggy in, 23:21842 (PNE-G-32)
seismic data from Klickitat Event in, analysis of square Fourier, 23:24330 (NVO-1163-38)
seismic data from Project Gasbuggy in, 24:7537 (PNE-1014)
seismic effects from Project Rulison at 4.29 to 366.3 km, comparison with Project Gasbuggy, 24:27252 (CGS-746-2)
seismic effects of Project Gasbuggy and Project Rulison in, UKAEA array measurements of, 24:41458 (AWRE-O-46/70)
seismic motion and close-in effects of Project Rulison in, method for predicting, 23:49976 (NVO-1163-180)
seismic motions from Project Rulison, comparison of preshot predictions with, 24:20909 (PNE-R-18)
seismic phenomena in, analysis of data on, 25:37506(T) (UCRL-Trans-10436)
seismic source function and surface motion from Gasbuggy Event in, measurement of, 25:26405 (PNE-1002)
seismic wave decoupling from underground nuclear explosions in, effects of frozen earth materials on, 23:4758 (UCRL-50486)
seismic waves from Gasbuggy Event in, response of El Vado and Navajo earth fill dams to, 23:11677 (UCRL-50480)
seismic waves from nuclear explosions, amplitudes and travel times of, 21:28119 (UCRL-50232)
shale oil production using underground nuclear explosions in, technical and economic aspects of, 21:43079 (PNE-3006)
shielding of explosives for, evaluation of borated polyethylene as neutron, 25:4175
shock wave calculations for Gasbuggy Event, using SOC code, 22:35966 (UCRL-50419)
shock wave data analysis in, use of computers for, 21:22062 (UCRL-50188)
shock wave propagation from TNT explosions in, microbarograph measurements of, 23:21844 (SC-M-69-33)
shock waves in, from underground nuclear explosions, computer program for measurement of, 21:10490 (UCID-5033)
shock waves propagation in air tunnel from Marvel Event in, analysis and measurement of, 25:34765
site exploration for Project Bronco in, hydraulic testing and sampling of USBM—AEC Colorado Core hole No. 3 for, 24:16678 (USGS-289-3)
site of Project Wagon Wheel in, high-pressure mechanical properties of sandstones from, (E), 25:21159 (UCRL-50963)
site selection for Pre-Schooner II chemical explosion, geologic evaluation of, 22:14601 (PNE-509)
site survey for Gasbuggy Project, hydrologic studies of, 21:24128 (UCID-15132)
site survey for Gasbuggy, effect of ground water confinement and compressibility on acceptability of, 21:45235 (UCID-15132(Add.))
site survey for Greeley, lithology and geophysical studies of, 21:39045 (UCRL-50142)
site survey for Pre-Gondola, 21:14344 (PNE-1101)
site survey for Project Buggy, preshot engineering and geologic, 23:43400 (PNE-322)
site survey for Project Cabriolet, preshot geologic evaluation of, 22:51125 (PNE-966)
site survey for Project Rulison in, 23:45683 (PNE-R-3)
site survey for springs and wells of Project Rulison in, 23:47628 (USGS-474-40)
sites for, measurement of dynamic elastic moduli of rocks from, 24:41478 (CONF-700101-(Vol.1), pp 110-26)
slope stability of nuclear craters, effects of geologic conditions on, 24:9543 (NCG-TR-14)
stress wave position in, for Sedan event, cable crushing method for instantaneous measurement of, 21:24127 (UCID-4867)
strong-motion and surface accelerations from Handcar event, 21:3200 (PNE-800-F)
subsurface and close-in surface dynamic effects of Cabriolet Event in, (E), 24:36446 (PNE-964)
summary of 1968 activities, 23:4518
surface motion and vented-gas temperature measurements in Project Cabriolet in, 24:7541 (PNE-963)
surface motion in Dugout, 21:8491(R) (UCRL-50008-66-1)
technical status of, summary of, 24:22846 (UCRL-72332)
technology development in, review of, 25:8388
temperature measurements in boreholes at Supplemental Nevada Test Site, 23:38094 (USGS-474-3)
terrain corrections for borehole gravimetry in, computer program for, 22:40283 (UCRL-50420)
test results in Handcar, Hardhat, and Shoal projects, 21:17748(R) (UCRL-50008-67-1)
tritium content in biota at site of, 21:28446 (UCRL-70292)
tritium content in Sedan crater soil and ejecta in, measurement of residual, 22:12465 (UCRL-50360)
tritium determination in reservoirs, springs, streams, and wells in Rulison project area, Garfield and Mesa Counties, Colo, 24:16413 (USGS-474-67)
tritium release by Project Rulison, in relation to food chain transport, 24:39472 (UCRL-50791)
tritium release from liquid hydrocarbons from wells of gasbuggy event of, theoretical evaluation of, 23:50460(R) (ORNL-TM-2721)
underground engineering experiments in, program for reducing costs of, 23:45433 (UCRL-50658)
underground engineering projects in, review of, 23:24332 (UCRL-71453)
underground explosion in open tunnel, results of Marvel event, 22:8243(R) (UCRL-50008-67-4)
USAEC—university cooperation in, prospects for increasing, 24:27283
use of nuclear explosives in, for recovering natural gas in Gasbuggy, 22:4301
uses in Australia, feasibility study of, 22:48975
uses of nuclear explosions in, review of, 22:30744
uses of nuclear explosives in, evaluation of public corporation for industrial, 23:40908 (UCRL-50693)
uses of nuclear explosives in, review of peaceful, 22:42928
waste disposal in nuclear cavities in, feasibility study of, 22:27942 (PNE-3008)
waste disposal in nuclear chimneys, computer analysis of fluid inflow and outflow in, 24:29485 (UCRL-50828)
waste disposal into rubble chimneys produced by underground nuclear explosions in, fluid flow calculations for, 23:4759 (UCRL-50506)
water analysis in precipitation, springs, streams, and wells in Project Rulison area, methods for radiochemical, 25:12951 (USGS-474-83)
water production from Project Gasbuggy reentry well in, evaluation and measurement of, 24:20927 (PNE-G-58)
water resource development and management in, use of nuclear explosions in, 23:7656 (TEI-873)

  - water resource development in , feasibility study of, 22:27942 (PNE-3008)
  - water resource development in, nuclear excavation technology for, 22:42929
  - water resource development in, safety of underground nuclear explosions in, 23:15997 (UCRL-50531)
  - water sampling in Rulison project area, 24:16413 (USGS-474-67)
  - water wave damage from nuclear excavation of interoceanic canal in, 22:30736 (NVO-99-24)
  - water waves from cratering explosions in shallow water in, characteristics of, 25:8386 (UCRL-50940)
  - well head samples in Project Rulison in, krypton-85 and tritium contents of, 25:6445(R) (ORNL-TM-3181)
- Plum Brook Reactor
    - see NASA Research Reactor
- PLUMBOB OPERATION
  - fallout distribution at Nevada Test Site from, 22:18963 (BNWL-481-1, pp 93-101)
  - fallout from Diablo and Shasta nuclear explosions in, decay and specific activity of, 24:20925 (AD-699420)
  - fallout from, distribution, characteristics and availability of, 21:1461 (WT-1488)
  - fallout transport and deposition from Shot Smoky in, effects of meteorological conditions on, 23:9557 (BNWL-715-3, pp 74-87)
  - meteorological analysis of, for fallout transport studies, 22:18956 (BNWL-481-1, pp 68-73)
- PLUMES
  - analysis and sampling of stack-disposed, equipment and method for, 23:11654(R) (NYO-3673-3)
  - behavior of Brookhaven National Laboratory air-cooled reactor, use of tracer techniques to study, 22:27925
  - behavior of smoke stack, effects of atmospheric conditions on, (E), 22:47240 (NYO-3685-14)
  - concentration variations in, krypton-85 tracer measurements of effects of crosswind and concentration ratio on, 24:14071 (BNWL-1051(Pt.1), pp 5-13)
  - depletion by ground surface sorption, one-dimensional parabolic diffusion equation for calculation of, 22:40253 (AECL-2787, pp 602-14)
  - diffusion from stacks, effects of meteorological conditions on, 23:457 (BNL-12833)
  - diffusion in atmosphere over southern California coastal mountains, 23:9552 (BNWL-715-3, pp 19-53)
  - diffusion in atmosphere, concentration fluctuations for, 24:39054 (BNWL-1307(Pt.1), pp 27-9)
  - diffusion in atmosphere, inert gas tracer system for studying, 24:39048 (BNWL-1307(Pt.1), pp 6-10)
  - diffusion in atmosphere, krypton-85 tracer studies of, 25:54908
  - diffusion in atmosphere, model for peak-to-mean concentration ratios for, 24:39052 (BNWL-1307(Pt.1), pp 21-5)
  - diffusion in buoyant chimney, 21:22043(R) (NYO-3685-10)
  - diffusion in stable atmosphere, effects of source height and stability on, 24:14070 (BNWL-1051(Pt.1), pp 1-4)
  - diffusion in, tracer studies of, 25:48643 (BNWL-1551(Vol.2)(Pt.1), pp 122-6)
  - diffusion model for jet, in atmospheric wind, development of, 24:27240(R) (NYU-3673-4)
  - diffusion of particles of, effects of atmospheric and ground conditions on, 22:45195 (TID-24190, pp 189-255)
  - diffusion of stack, effects of meteorological conditions on, 22:45194 (TID-24190, pp 117-88)
  - diffusion of stack, in lower atmosphere, fundamental theories of, 22:45193 (TID-24190, pp 65-116)
  - dispersion of gaseous, in vicinity of simple geometric shapes, 24:29390(R) (COO-2053-1)
  - exposure from centerline, in stable atmosphere, effects of source height and stability on, 24:39047 (BNWL-1307(Pt.1), pp 2-6)
  - particle concentration in, effects of building wakes on, 21:41011 (BNWL-SA-1400)
  - particle depletion in, measurement of fluorescent, 23:9556 (BNWL-715-3, pp 65-73)
  - patterns from Dragon Reactor, effects of stack design on, 24:43738 (NP-10679)
  - properties of diffusing, use of instantaneous measurements for approximating mean, 23:9551 (BNWL-715-3, pp 12-18)
  - properties of smoke, use in atmospheric diffusion and transport studies, 22:45192 (TID-24190, pp 13-63)
  - rise and diffusion of Brookhaven, at medium range, 22:40232 (AECL-2787, pp 252-62)
  - rise and diffusion of, from tall stacks, effects of lakebreezes on, 22:40229 (AECL-2787, pp 215-28)
  - rise and dispersion of smoke, in atmosphere, mechanisms of, (E/T), 24:2319 (TID-25075)
  - rise and trajectory of, from high stacks, comparison of theory and observations, 22:40260 (NP-17543)
  - rise from stacks, effects of design parameters on, 23:455 (ANL-7360, pp 149-84)
  - rise from tall stacks, formulas for prediction of, 22:40223 (AECL-2787, pp 1-20)
  - rise of stack-released, method for calculating, (E/T), 25:54780 (CONF-710505-6)
  - rise of stack-released, review of methods for predicting, 25:10717
  - rise of strongly radioactive, 21:41033
  - sampling of zinc sulfide tracer, real time method for, 23:9550 (BNWL-715-3, pp 1-12)
  - sulfur content of, from tall stacks, tracer method for measuring, 24:19095 (BNL-50206)
  - sulfur dioxide concentration in low-turbulence jet, measurement of, 24:27240(R) (NYU-3673-4)
  - tracer for reprocessing plant, using tritiated moisture, 23:38114
  - tracing of fuel reprocessing plant stack, use of tritiated moisture for, 23:2524
  - tracking of NERVA rocket reactor exhaust, lidar equipment and method for, 22:47241 (UCRL-13358)
  - use of smoke, in atmospheric diffusion studies in nuclear installation site suuvey, 22:45356 (TID-24190, pp 257-300)
- PLUTO (Harwell, England)
    - see DIDO Reactors
- PLUTO (PLANET)
  - iron abundance in, (T), 25:33047
  - mass and density of, (E), 25:35822
- PLUTO REACTORS (TORY)
  - heat transfer analysis of, computer program for, 21:3212 (UCRL-7960(Rev.2))
  - testing of II-C, control and performance instrumentation systems for, 22:42343 (UCRL-7036(Pt.6))
- PLUTONATES
    - see also Barium Indium Plutonates
    - see also Barium Plutonates
- PLUTONIUM
    - see also Actinides
  - abundance in meteorites, 22:4995
  - abundance of hexavalent and pentavalent, in dilute acid solutions, 25:51584(R) (MLM-1792)
  - abundance on surfaces of peculiar A stars, (E/T), 25:58462
  - abundance relative to uranium in reprocessing plant solutions, mathematical evaluation of, 25:2417 (BNWL-SA-3287)
  - accounting methods for, at Battelle Memorial Institute, 22:608 (CONF-661011, pp 74-9)
  - accumulation in man following inhalation, design of computer program using urinary excretion data to determine whole-body, 23:24641
  - activity of, use of gas-flow proportional and liquid scintillation counters for measurement of, 24:50353 (CONF-690916-(Vol.2), pp 252-6)
  - administration of, for FFTF fuel fabrication, 22:726 (BNWL-SA-1388, pp 13.1-3)
  - alpha activity in plants, 24:34305
  - alpha emission by, determination of activity from, in urine using sorption on glass fiber filter paper, 22:51633
  - amalgamation in lithium citrate solution, electrolytic, 22:18748
  - analysis by coulometry, conversion factor values of, 21:40695(R) (EURAEC-1886)
  - analysis by isotope-dilution mass spectrometry, 21:30345(R) (IN-1063)
  - analysis by thermal ionization mass spectrometry, isotopic, 24:41181 (NP-18305)
  - analysis for aluminum by differential linear sweep oscillographic polarography, 23:2252
  - analysis for americium using solvent extraction and gamma counting, 21:34279
  - analysis for americium-241 by α and γ spectroscopy, 22:44982(T) (RFP-Trans-49)
  - analysis for americium-241 by solvent extraction using dibutyl butylphosphonate and alpha counting, 22:21018 (ARH-SA-1)
  - analysis for americium-241, plutonium-238, plutonium-239, and plutonium-240 by alpha spectrometry, 23:47393
  - analysis for carbon and hydrogen by combustion—manometric method, 24:7397 (LA-4260)
  - analysis for chlorides by chronoamperometry, 24:36143 (CEA-N-1241, pp 3-83)
  - analysis for chlorine and fluorine by pyrohydrolysis and spectrophotometry, 24:22577 (FOA-4-4407)
  - analysis for cobalt by spectrography, properties of lithium fluoride—silver chloride as carrier in, 23:26156 (ARH-1079)
  - analysis for copper using 2,9-dimethyl-1,10-phenanthroline, spectrophotometric, 23:26151
  - analysis for fluorides using zirconium—Eriochrome Cyanine R, colorimetric, 23:14 (MLM-1544)
  - analysis for free acids in nitric acid solutions of, method for, 21:17565 (KFK-499)
  - analysis for gallium by atomic absorption spectrometry, 22:42584 (ARH-SA-13)
  - analysis for impurities by copper spark method, spectrochemical, 25:10444
  - analysis for impurities by direct current arc method, spectrographic, 22:35758
  - analysis for impurities by mass spectrometry, spectrography, and spectrophotometry, 25:28916 (CEA-R-4071)
  - analysis for impurities by spark source mass spectrometry, 23:24067
  - analysis for impurities by spectroscopy, carrier distillation preparation of samples for, 25:6399(R) (MLM-1751)
  - analysis for impurities in, 23:24073
  - analysis for impurities, computer calculations for spectrochemical, 24:20685 (LA-DC-10556)
  - analysis for impurities, review on methods for, 22:8033
  - analysis for impurities, review on spectrochemical, 21:19532 (CEA-R-3051)
  - analysis for impurities, spectrochemical, 21:27893(R) (NBL-237)
  - analysis for impurities, spectrographic, 22:21645(R) (BMI-1826)
  - analysis for impurities, use of vacuum spark source mass spectrometer for, 22:25702
  - analysis for iron by spectrophotometry after liquid—liquid extraction, 22:10172 (LA-3781)
  - analysis for iron using nitrobenzene extraction, colorimetric, 21:45050
  - analysis for isotopes by mass spectrometry, 23:49724
  - analysis for isotopes by mass spectrometry, 24:2131
  - analysis for isotopic composition by α counting, 24:50353 (CONF-690916-(Vol.2), pp 252-6)
  - analysis for neodymium-148 by isotope-dilution mass spectrometry, 22:1949 (GEAP-5354)
  - analysis for nitrogen, 22:37639(T) (ANL-Trans-610, pp 1-56)
  - analysis for other actinides, 24:38703
  - analysis for other actinides and rare earths, spectrographic, 23:24064 (BARC-383)
  - analysis for oxygen in presence of sodium, method for, 24:1061 (BMI-1868, Sect.A)
  - analysis for palladium and rhodium after liquid-liquid extraction using Aliquat-336 by flame photometry, 22:8024
  - analysis for plutonium by differential spectrophotometry, 22:10174 (PG-Report-290(Rev.))
  - analysis for plutonium-240 by optical emission spectroscopy, 23:7472
  - analysis for plutonium-240 using fission multiplicity detector, 25:4038
  - analysis for plutonium-240, semiconductor detector alpha spectrometer for, 24:14287 (CEA-R-3925)
  - analysis for rare earth, tantalum, titanium, tungsten, and zirconium impurities by solvent extraction and emission spectrography, 25:12923 (WHAN-SA-47)
  - analysis for rare earths by solvent extraction using tridodecylamine and emisson spectrography, 24:50339 (CONF-690916-(Vol.2), pp 298-302)
  - analysis for rare earths by x-ray fluorescence spectrometry, 23:36
  - analysis for silicon by differential linear-sweep oscillographic polarography, 24:26940
  - analysis for silicon, emission spectrographic, 22:1956(R) (MLM-1405)
  - analysis for trace amounts of americium and rare earths, emission spectrographic method for, 24:50338 (CONF-690916-(Vol.2), pp 290-7)
  - analysis for trace amounts of cadmium by chemical preconcentration and atomic absorption spectrometry, 23:9304 (ORNL-4343, pp 53-6)
  - analysis for trace amounts of cerium, dysprosium, erbium, gadolinium, and samarium by solvent extraction using tridodecylamine and spectrography, 24:26937
  - analysis for trace amounts of fluoride, spectrophotometric, 23:9309
  - analysis for trace amounts of impurities by atomic absorption spectrophotometry without preliminary separation, 25:48442
  - analysis for trace amounts of silicon, spectrographic, 21:21889
  - analysis for trace impurities, development of reference standards for, 25:41718 (CEA-R-4106)
  - analysis for trace quantities of zirconium, spectrophotometric, 21:40763 (LA-3743)
  - analysis for uranium by amperometric titration, 22:25240 (PG-Report-827)
  - analysis for uranium by differential linear sweep oscillographic polarography, 22:33242
  - analysis for uranium by polarography of malonate complex, 21:27901
  - analysis for uranium in electrorefined, combined ion exchange and x-ray fluorescence method for, 21:38921
  - analysis for uranium isotopes by method involving precipitation using hypophosphorous acid, 23:15962
  - analysis of aqueous solutions of tetravalent, for plutonium(IV)/plutonium(VI), 23:40535 (CEA-N-1044, pp 3-50)
  - analysis of aqueous solutions of, for free acids using EDTA complexes, 23:9297(T) (MLM-1575(tr))
  - analysis of aqueous solutions of, for free acids using EDTA complex, 22:27576
  - analysis of capsules fueled with, use of lithium-drifted germanium gamma spectrometers for isotopic, 21:36365
  - analysis of compounds of, for impurities, review on spectrochemical, 21:19532 (CEA-R-3051)
  - analysis of high-purity, extraction chromatographic procedure for facilitating, 23:2180 (NP-17617)
  - analysis of high-purity, for impurities by anion exchange separation and graphite-spark excitation, 21:25771 (LA-DC-8507)
  - analysis of high-purity, for uranium, spectrophotometric, 21:1246 (LA-3551)
  - analysis of irradiated, for fission products, 21:35895
  - analysis of nitric acid solutions of tetravalent, for free acid, 24:41176(T) (EURFNR-756)
  - analysis of nitric acid solutions of, for free acid, 24:29178 (KFK-1133)
  - analysis of nitric acid solutions of, for free acid, potentiometric, 22:22938(T) (EURFNR-418)
  - analysis of nitric acid solutions of, for free acid using ammonium fluoride as complexing agent, 22:39981 (EUR-3934)
  - analysis of nitric acid solutions of, for free acid, thermometric, 24:43938 (CEA-N-1292, pp 25-8)
  - analysis of plutonium-242-enriched, for plutonium-241 by α-γ coincidence measurements, 23:49731 (CEA-R-3774)
  - analysis of solutions of tetravalent, for trace amounts of trivalent plutonium, spectrophotometric, 25:20908 (CEA-R-4135)
  - analysis of solutions of, for free acid by direct acidimetry, 22:27530 (CEA-N-816, pp 9-65)
  - analysis of solutions of, for free acid, citrate and iodate methods for, 22:18693 (LA-3876)
  - analysis of solutions of, for free acids, 23:28709
  - analysis of solutions of, for impurities, review on La Hague plant atomic absorption spectrophotometric, 24:13754
  - analysis of solutions of, for nitrates, 22:37639(T) (ANL-Trans-610, pp 1-56)
  - analysis of solutions of, instrument for pH, 21:38
  - analysis of sources of, for isotopes by γ spectroscopy, 24:46190 (BNL-50237)
  - analysis of ultra-pure, gloveboxes lined with Teflon for, 23:11396 (RFP-823)
  - analysis of, containment practices in laboratories for, 22:22931 (NBL-243)
  - analysis of, for iron by complex extraction and spectrophotometry, 21:1240 (CEA-R-2969)
  - analysis of, for silicon, spectrophotometric, 21:5753 (LA-3559)
  - analysis of, instrument development for, 21:23589(R) (ANL-7308)
  - analysis of, isotopic, 24:259(T) (ANL-Trans-775)
  - analysis of, measurement of alpha to x ray yield ratio for isotopic, 21:35839 (BNWL-SA-1022)

analysis of, results of umpire qualification laboratory, 24:48246 (TID-25520)
analysis of, review of chemical methods for, 24:11421 (BARC-422)
analysis of, spectrographic, 22:16356 (KR-116)
assay facilities for scrap, development of radiation detectors for, 25:23764(R) (BHO-66-2)
atmospheric contamination by, aerosol sampling method for evaluation of, 23:26363 (CEA-R-3701)
atomic structure of, (E), 23:32144
availability and use for fast breeder power reactor fuel, review of, 23:21453
availability and uses for power reactors by CNEN and ENEL, 25:45036
availability of fuels of, effects on fast reactor construction of, 24:11125
availability of reactor fuels of, projection of 1968 to 1985, 22:53344
bibliography, 21:5986 (BNWL-113-22)
bibliography on, 21:15814 (BNWL-113-23)
bibliography on, 21:17564 (BNWL-396)
bibliography on, 21:28339(R) (BNWL-423)
bibliography on, 21:35787 (BNWL-446)
bibliography on, 21:9048 (BNWL-113-21)
bibliography on, 21:21858 (BNWL-411)
bibliography on fuels of, 22:1883(T) (ANL-Trans-523)
bibliography on technology of, 22:1914 (BNWL-525)
bibliography on technology of, 22:1915 (BNWL-550)
bibliography on technology of, 22:7937 (BNWL-619)
bibliography on technology of, 21:35788 (BNWL-486)
bibliography on technology of, 21:40729 (BNWL-493)
bibliography on technology of, April 1969, 23:35059
bibliography on technology on, 22:3967 (BNWL-573)
bibliography on, April 1970, 24:29964
bibliography on, April 1971, 25:32642
bibliography on, August 1969, 23:49687
bibliography on, August 1970, 24:48078
bibliography on, Dec. 1969, 24:12389
bibliography on, Dec. 1970, 25:19166
bibliography on, Feb. 1971, 25:27168
bibliography on, February 1969, 23:31270
bibliography on, February 1970, 24:25076
bibliography on, First Quarter 1971 index to, 25:55369
bibliography on, index to 3rd quarter 1970 of, 25:8831
bibliography on, Jan. 1970, 24:17265
bibliography on, Jan. 1971, 25:27169
bibliography on, July 1969, 23:49686
bibliography on, July 1970, 24:50388
bibliography on, July 1971, 25:52291
bibliography on, June 1970, 24:39614
bibliography on, June 1971, 25:52292
bibliography on, March 1970, 24:25077
bibliography on, March 1971, 25:32640
bibliography on, May 1969, 23:37869
bibliography on, May 1970, 24:34842
bibliography on, May 1971, 25:39994
bibliography on, Nov. 1969, 24:12348
bibliography on, Nov. 1970, 25:13626
bibliography on, Oct., 1970, 25:8830
bibliography on, October, 1969, 24:11412
bibliography on, Sept. 1970, 25:13625
bibliography on, Sept. 30, 1966, 21:1312 (BNWL-113-20)
binding by human transferrin in vitro, effects of iron saturation and pH on, 23:9830 (CEA-R-3623)
binding of, by serum proteins, 21:3370 (AWRE-O-37/66)
binding to bone sialoprotein and transferrin in vitro, effects of bicarbonate ions, iron, and sialic acid on, 24:44414
binding to glycoprotein in bovine bones, mechanism of, 25:18899
binding to proteins in blood serum in vitro, 22:51466
binding to proteins, plutonium-239 tracer studies of, 22:51372
book: Analytical Chemistry of Plutonium, 21:35895
book: Chemistry of Plutonium, 24:46327
book: Complex Compounds of Transuranides, 22:37755
book: Guide to Uncommon Metals, 21:34854
book: Heavier Than Uranium, in Russian, 23:47426
book: Metallurgy of Plutonium (In Russian), 23:41609
book: Nuclear Fuel Metallurgy. Uranium, Plutonium, and Thorium: Properties and Technology. (In Russian), 22:43574
book: Plutonium Handbook. A Guide to the Technology, Vol. I, 22:2087
book: Plutonium Handbook, A Guide to the Technology, Vol. 2, 22:8198
book: Plutonium-Dokumentation, 24:205
book: Problems of Plutonium Toxicology, 23:35606
book: The Metallurgy of Nuclear Fuel. Properties and Principles of the Technology of Uranium, Thorium and Plutonium, 23:33922
book: The Metallurgy of Plutonium, 25:2658(T) (AEC-tr-7095)
book: Uncommon Metals, 22:10981
breeding in Yankee Power Reactor of, measurement of, 22:22771
buildup in fast reactor fuels, effects of fuel cycle on, (T), 25:60095(R) (IAEA-R-742-F)
buildup in large power reactors, changes in system dynamic characteristics from, (T), 22:14179
buildup in pebble bed reactors, calculational procedures for determining, 22:46902 (JUL-542-RG)
buildup in pressurized water reactor cores, model for, 24:33275
burden in lungs of man, design and performance of proportional and scintillation detectors for determining, 23:16180 (NIRS-7, pp 3-11)
burnup analysis of, 21:27828 (BNWL-SA-1168)
burnup in beryllia pebble bed reactor, 21:25612 (AAEC/TM-350)
burnup in fast reactor fuels, effects on reactor reactivity, (T), 21:21734
burnup in fast reactors, analyses using DTF—BURN code, 21:27831 (LA-3671)
burnup in fuel from mass spectrometric measurements, BURNUP program for computing, 21:44836(R) (GEAP-5462)
burnup in graphite and water moderated lattices of, computer analysis for optimum, (E/T), 22:22868
burnup in mixed fuels, mass spectrometric studies on, 24:43934(R) (AECL-3556)
burnup in reactor fuels, evaluation of methods for measuring, 24:46195
burnup of, contribution to total, 21:27839
burnup of, determination of neodymium-148 as measure of, 22:1949 (GEAP-5354)
casting of molten, induction furnace requirement for, 23:2488(P)
casting of, development of crucible coatings for, 25:727 (LA-4495)
chemical properties of, 22:2088
chemical properties of, 23:24073
chemical properties of, 23:45296
chemical properties of, 25:8238(T) (LF-tr-41, pp 3-5)
chemical properties of, 22:2089
chemical properties of, 23:47605
chemical properties of, 24:259(T) (ANL-Trans-775)
chemical properties of solutions of, 21:12499 (LA-3499)
chemical properties of, effects of valence state on, 23:26222(T) (UCRL-Trans-10343)
chemical reactions in solutions, review of, 22:2090
chemical states of, formation, stability, and transitions of, 24:36201(T) (MLM-1747(TR))
chemistry in liquid metal—molten salt systems, 23:38041
chemistry in molten chlorides, 24:22746
chemistry in molten fluorides containing oxide, 24:46307 (ORNL-4548, pp 93-186)
chemistry of, 23:35442
chemistry of molten, 22:2090
chemistry of, methods for studying, 21:38995
chemistry of, review on, 23:15865
chromatographic behavior of, in mixtures of hydrochloric or nitric acids in alcohols, 22:50974
chromatographic behavior of, on anion exchange paper, 24:26905 (CEA-N-1210)
cleaning of, electrolytic process for, 22:23749(P)
clearance from blood of rats, mechanisms in, 23:2748
combination in nitrogen and oxygen atmospheres, size characteristics of aerosol produced by, 21:44882
combustion aerosols from, retention efficiency of particulate air filters for, 25:54951 (CONF-710401-, pp 181-202)
combustion behavior and extinguishing agents for flaming, 23:3025
combustion by ignition in atmosphere, release of particles in, 21:16590 (BNWL-357)
combustion in air, factors affecting self-sustained, 23:46008
combustion in fluorine, products of, 22:25321 (ANL-7375, pp 95-134)
combustion in oxygen, thermodynamics of, 23:27151
combustion of metal and compounds of, airborne particle release from, 22:43014 (BNWL-SA-1735)
combustion of, properties of ternary eutectic fluoride and graphite for extinguishing, 23:15832 (LA-3967)
complex formation of tetravalent, in sulfate solutions, 25:34563
complexes in aqueous solutions, review on chemistry of, 24:38864
complexes in nitrate solutions, stability constants of, 25:37341
complexes of hexavalent, with α-hydroxycarboxylic acids, potentiometric and spectrophotometric study of, 23:6090 (KFK-765)
complexes of pentavalent, with α-amino acids, cation exchange and photometric studies of, 24:46209(T) (LIB/Trans-261)
complexes of tetravalent, with EDTA, fluorides, oxalates, and sulfates, formation constants for, 24:2200
complexes of tetravalent, with lithium nitrate or nitric acid in aqueous methanol solutions, spectrophotometric studies on, 25:26274
complexes of trivalent, with acetates, reaction kinetics of, 23:21705
complexes of, calculation of stability constants from distribution measurements on, 23:9408
complexes of, preparation and properties of, 22:2090
complexes of, with EDTA, high-frequency titration studies of formation of, 21:10332
complexes of, with organic acids, solubility of, 21:10301 (CEA-R-3092)
complexes of, with thiocyanates, electrophoretic and ion exchange studies on, 21:17633
complexes with [(carboxymethylimino)bis(ethylenenitrilo)]tetraacetic acid, spectrophotometric study of, 23:45246(T) (UCRL-Trans-10366)
complexes with (carboxymethylimino)bis(ethylenenitrilo) tetraacetic acid, spectrophotometric study of, 23:17391 (CEA-R-3521)
complexes with 2,3-dimercaptosuccinonitrile, preparation of, 22:30515
complexes with 2,4-pentanedione, preparation and recrystallization properties of, 21:40959(R) (MLM-1399)
complexes with 6-methylpicolinic acid, nicotinic acid, picolinic acid, and picolinic acid 1-oxide, ir and NMR spectral and thermogravimetric studies on, 25:2194 (KFK-1070)
complexes with 8-quinolinol and its derivatives, preparation and stability of, 22:16541
complexes with 8-quinolinol, formation of, 22:33332
complexes with acetic, glycolic, hydrochloric, and picolinic acids, spectrophotometric study of, 23:9379
complexes with aminopolycarboxylic acids, spectra and stability of, 24:18936
complexes with benzohydroxamic acid, stability constants of, 21:4508
complexes with chloride- and oxygen-containing ligands, charge transfer transitions in, 22:37745
complexes with cyclooctatetraene in tetrahydrofuran solution, preparation and magnetic and spectral properties of, 24:41299
complexes with cyclopentadiene, spectra of, absorption, 24:9336
complexes with cyclopentadiene, spectra of, NMR, 23:26256
complexes with diethyldithiocarbamate, preparation and structure of, 21:19586 (DP-MS-66-82)
complexes with diethyldithiocarbamate, preparation of, 22:27652
complexes with diethyldithiocarbamate, spectra of, ir, 22:27652
complexes with diethyldithiocarbamic acid, chemical and crystallographic properties and spectra of, 24:22633
complexes with diketones, volatility of, 24:36217
complexes with DTPA, preparation and stability of, 25:34558 (SRARI-P-92)
complexes with ethyl xanthate, preparation of, 22:30515
complexes with fluorine in perchloric acid solutions, preparation of, 23:28838
complexes with fluorine ions in nitric acid solutions, preparation of, 23:28837
complexes with glycine, equilibria in, 23:2295
complexes with glycolic acid, stability of, 22:30551
complexes with hydrogen fluoride in perchloric acid solution, 23:13734
complexes with ion exchange materials, ESR studies of, 23:49820
complexes with methylenebis(dihexylphosphine oxide), kinetic studies of, 22:27893
complexes with monochloroacetate in aqueous solutions, preparation and stability of, 23:28857
complexes with N,N-diethyldithiocarbamic acid, preparation of, 23:6106
complexes with N,N-diethyldithiocarbamic acid, preparation and infrared spectra of, 22:30515
complexes with N-phenylbenzohydroxamic acid, formation of, 22:33332
complexes with nitrates, stability constants of, 24:20757
complexes with organic compounds, tables of thermodynamic stability constants for, 22:58 (UCRL-50200)
complexes with phosphoric acid, effects of concentration on, 22:8072
complexes with picolinic acid, preparation and properties of, 24:29263
complexes with salicylic acid, kinetic studies of, 22:27893
complexes with sulfamate ions, spectra of, effects of sulfamic acid on, 22:27658
complexes with sulfates, stability constants for, 21:35945
complexes with tartaric acid in nitric acid solutions, stability of, 24:29306
complexes with toluene-3,4-dithiol, preparation of, 22:30515
complexes with trihexylphosphine oxide and dibutyl phosphorate, formation of, in extraction systems, 21:1441
complexes with tropolone, preparation of, 23:9381
complexes with tropolone, preparation of, 22:25440(R) (MLM-1443)
complexes with urea, composition and stability of, in nitric acid solutions, 25:37343
complexes, chemistry of, 24:46327
complexes, metabolism in rats of, 21:28338(R) (BNWL-353(Rev.))
complexes, preparation of, 23:45296
composition of irradiated, isotopic, 21:19353(R) (EURAEC-1774)
composition of, differential thermal analysis studies of, 25:29885
compounds of, analysis for impurities, review on methods for, 22:8033
compounds of, analysis of, for plutonium and its isotopes, accountability methods for, 22:6 (CONF-661011, pp 135-45)
compounds of, chemical stability and vaporization of, 21:36073(R) (ANL-7350)
compounds of, crystal-field effect and magnetic properties of NaCl-type, 25:11994
compounds of, preparation, properties, and reactions of, review of, 22:2089
compounds of, production of solid, containing heptavalent plutonium, 23:21693
compounds of, review of NMR in NaCl-type, 25:12036
compounds of, spectra of chemical bonds in, absorption, 23:15844
compounds, chemistry of, 24:46327
compounds, crystal structure of, equipment for x-ray studies of, 22:27622 (EUR-3897)
compounds, film formation on aqueous solutions of, 25:113 (AWRE-O-37/70)
compounds, formation of, enthalpy of, 22:52257 (ANL-7425, pp 94-129)
compounds, heating of dry, fractional release during, 25:54546
concentration by solvent extraction using tributyl phosphate, 22:35891
concentration by solvent extraction using tridodecylamine, 22:35893
conference on properties and structure of, Sante Fe, New Mexico, Oct. 5 to 9, 1970, 25:11433 (CONF-701001-(Pt.2))
conference on properties and structure of, Sante Fe, New Mexico, Oct. 5 to 9, 1970, 25:11372 (CONF-701001-(Pt.1))
conference on, London, 1965, 21:32820
container for reactor fuels of, design of zirconium carbide-containing tantalum, 24:9624(P)
contamination by ruthenium, 22:27856(R) (K-1738)
content and distribution in desert soils around Nevada Test Site, 25:54755 (CONF-710401-, pp 320-7)
content and distribution in reactor fuel elements, statistical analysis of gamma scanning data on, 25:48797 (CONF-710617-34)

content in air and surface waters of Miamisburg, Ohio area, Jan. through June 1967, 21:45246(R) (MLM-1425)
content in cooling system after fuel element failure, 21:23605(R) (LA-3650)
content in dissolved irradiated fuels, calculation of, (T), 24:2068 (NP-18021)
content in EBR-II radial-blanket uranium rods, 21:7856(R) (ANL-7255)
content in fuel processing plant scrap, performance of mobile nondestructive assay laboratory for measuring, 25:21301
content in heterogeneous mixtures of scrap, methods for measurement of, 22:203 (CONF-661011, pp 104-14)
content in human lungs, comparison of detectors for determination of, 21:45340 (BNWL-481-4, pp 25-7)
content in igneous rocks, effects of volcanogenic processes on, 22:25506
content in lungs, development of multiwire proportional counter for γ in vivo determination of, 21:16102 (CEA-R-3027)
content in MSRE fuel salt, 24:16486 (ORNL-4449, pp 96-163)
content in operating fuel elements, ISOCHECK method analysis of, 21:13954 (CEND-268)
content in operating fuel elements, ISOCHECK method analysis of, 21:13957 (CEND-281)
content in operating fuel elements, ISOCHECK method analysis of, 21:13958 (CEND-282)
content in operating fuel elements, ISOCHECK method analysis of, 21:13961 (CEND-287)
content in operating fuel elements, ISOCHECK method analysis of, 21:13956 (CEND-272)
content in operating fuel elements, ISOCHECK method analysis of, 21:13959 (CEND-285)
content in silt, seawater, and marine life in Irish Sea, effect of waste disposal on, 21:15995
content in solid chemical process materials and wastes, radiometric method for measuring, 25:32164 (CONF-700541-, pp 71-84)
content in solid wastes produced by reactor fuel fabrication and reprocessing plants, predictions to year 1990 of, 25:13188 (BNWL-B-34)
content in spent fuel, comparisons between calculated and measured, 21:30181(R) (WCAP-6082)
content in spent fuels, determination by uranium-235 depletion, 25:4257 (BNWL-SA-3304)
content in surface water and air near Miamisburg, Ohio, 1966, 21:22041(R) (MLM-1391)
content in tissues of man at autopsy, 21:36567 (BNWL-SA-1232)
content in ultrabasic rocks of USSR, (E), 25:276
content in waste drums, automatic scanning system and gamma spectrometer for determining, 23:635
content of atmosphere in United States during October to December 1966, 22:40690
content of feces, determination of, 22:43301 (AERE-R-5474)
content of freshwater, high sensitivity determination of, 22:43301 (AERE-R-5474)
content of human blood following anion exchange separation, 24:21185(R) (JAERI-5021)
content of human blood in Japan during 1967, fallout, 23:18026 (JAERI-5017, pp 149-53)
content of human blood, expired air, feces, and urine, method for detecting small quantities of, 23:31723 (KFK-810)
content of human lungs in relation to content of americium-241, 24:48545
content of human lungs, multiwire proportional detector for measuring, 25:57773
content of human tissues at autopsy, 23:24649
content of insoluble compounds of, in human lungs, estimation of, by external counting of uranium x rays, 22:21501
content of internal organs of man following occupational exposure, 22:38265 (UCRL-18140, pp 103-22)
content of man following contamination through skin, elimination of, 23:29465(T) (CONF-448-36)
content of man following nuclear accident, use of bioassay data to determine extent of, 23:24639
content of man in relation to urine, computer calculation of, 22:6803 (ORNL-4168, pp 231-88)
content of man, excreta analysis of, 23:9945
content of nose-blow samples at AERE, correlation of, with content of feces, 22:38249 (BLG-371)
content of organs of man in relation to content of urine following inhalation of aerosols, 25:32334
content of personnel at Karlsruhe nuclear center, methods for analyzing, 24:34376
content of personnel following accidental exposure, 21:41399 (TID-5360(Suppl.1)(Rev.))
content of personnel, difficulties in measuring, 24:50866
content of plants and soils after Palomares accident as indicator of effectiveness of gross decontamination procedures, 23:20201 (CONF-680507-, pp 456-9)
content of tissues in production plant personnel following inhalation and puncture wounds, calculation of percent maximum permissible body burden, 23:41307
content of urine in man in relation to body burden, 22:2508 (SC-TM-67-405)
content of waste from Argonne reactor during 1968, 23:24584 (TID-25006)
content of wounds of personnel, 23:14188
content of, in environs of Mound Laboratory, 1965, 21:10865 (MLM-1335)
content on surfaces based on radiation dose to humans, decision levels for establishing, 25:55195 (CONF-710401-, pp 352-64)
content on surfaces, determination of limits for, 22:23546
control and handling at ZPPR, evaluation of gamma assaying method for, 24:429
control and procurement of, for FFTR, 22:1851 (BNWL-SA-1388, Suppl.)
control by emission spectrometry, isotopic analysis, and measurements on specific surface, 24:11423 (CEA-N-1148, pp 3-80)
control by emission spectrometry, isotopic analysis, and measurements on specific surface, 24:22576(T) (ANL-Trans-796)
corrosion and oxidation of, review of, 22:2577
corrosion by products from radiolysis of diisopropylamine or diisopropylamine hydrochloride, 24:16548 (RFP-1439)
corrosion by water vapor in argon at 50 to 270°C, kinetics of, 25:11350
corrosion resistance of nuclear materials containing, 22:31357
corrosive effects of liquid, on niobium, tantalum, and tungsten, 21:39548 (UCID-15190)
corrosive effects of liquid, on tantalum and tantalum—tungsten containers at 900 to 1100°C, 21:36787 (LA-3631)
cost factors for use as fuel in boiling and pressurized light-water reactors, 24:11141
cost in reactor fuel cycles, game theory calculations of, 25:20753
cost of fast breeder reactor fuels of, analysis of future, 23:18193 (DUN-AOP-92)
cost of, effects on boiling and pressurized-water power reactor fuel cycle economics of, 22:53344
crack formation during α—β thermal cycling, effects of gallium, titanium, and uranium on, 25:11393
creep of beta-, 21:34244(R) (BNWL-228)
creep properties of allotropic, steady-state, 21:32880
critical configurations for unmoderated, moderated, and externally reflected arrays of, (T), 25:48332 (UCRL-51041)
critical mass control at Rocky Flats Nuclear Safety Facility, maximum-credible accident analysis for, 22:2273 (RFP-977)
critical mass for water-reflected spherical-shaped, measurement of, 22:53417 (LA-DC-9370)
critical mass of water reflected spheres of, (E/T), 23:52481
critical mass of water-reflected spheres of, 22:33059
critical parameters for full-reflected, review of, 24:22928 (MRR-56)
critical parameters of clean homogeneous systems fueled by, accuracy of techniques for calculation of, (E/T), 23:28604
critical parameters of unreflected and water-reflected systems with various plutonium-240 contents, (E/T), 23:28603
critical parameters of unreflected spheres of compounds of, 21:24183 (BNWL-SA-983)
critical parameters of water reflected spheres of compounds of, 21:24183 (BNWL-SA-983)
critical parameters of water-moderated spheres of, effects of plutonium-240 content on, 23:6020(R) (BNWL-887)
critical physics measurements for fuel elements, 23:4375
criticality data for assemblies with various shapes and moderators, handbook on, 23:11349 (AHSB(S) Handbook-5(Pt.3))
criticality data from reflected and unreflected reactor cores of, 22:32958 (AHSB(S)Handbook-5(Pt.2))
criticality experiments on, effects of plutonium-241 decay on, (T), 25:8122
criticality measurements on arrays of nut-type casks containing, 22:12087 (BNWL-472, pp 5.1-16)
criticality monitoring of aqueous solutions of, weighing method for, 24:27309 (ARH-1634)
criticality of arrays of metal spheres of, calculations for, 25:4283
criticality of hemisphere and sphere shaped metal, 24:7196
criticality of hemispheres and spheres of alpha-phase, equipment and methods for measuring, 25:57718
criticality of, calculation method for, 21:30108 (CEA-R-3114)
criticality parameters for assemblies of, improved analysis of, 23:4429
criticality studies for parts array of, effects of unit cell shape on, 23:4373
criticality studies in three-dimensional arrays of billets of, (E), 21:24419 (UCRL-50175)
criticality studies of aqueous solutions of, 21:5833 (HW-51937)
criticality studies on aqueous solutions of, 23:4368
crystal growth of alpha, at high pressure, 23:41569
crystal optical constants of delta, at 5461 A, ellipsometer measurements of, 22:8773
crystal structure of alpha-phase, 21:15796
crystal structure of alpha-phase, at high pressure, 22:8778
crystal structure of alpha-phase, methods for determining, 21:9188 (RFP-658, pp 185-94)
crystal structure of β-phase, 21:32869
crystal structure optimization for fuels of, 23:20464
crystallography of alpha-to-beta transformation in, 23:30084
cutting and milling of, decontamination of hot cells for, 22:12510(P)
decay interval for stone meteorites, (E), 23:39077
decay of, determination of products from, 23:28935
deformation behavior of alpha, beta, and gamma, effects of temperature on, 25:11389
deformation of alpha-phase, mechanisms of, 24:25724 (ANL-7417, pp 71-7)
deformation of alpha-phase, mechanisms of, 22:43590 (ANL-7299, pp 201-19)
deformation of crystalline alpha, effects of compression on, 24:42137 (UCRL-72507)
deformation processes in alpha- and beta-, 21:34244(R) (BNWL-228)
density and grain size of α-, effects of extrusion and recrystallization on, 24:14751
deposition as oxide on instrument parts of stainless steel, electrolytic, 25:57440
deposition in man, evaluation of residual, 22:21544
deposition in man, review on methods for controlling and evaluating, 22:8557
deposition in skeleton of rats following inhalation of plutonium nitrate, 25:6611(T) (AEC-tr-7169, pp 124-36)
deposition of thin films of, as α source, 21:30625 (AECL-2666)
deposition of, method for electro-, 23:96 (CEA-R-3430)
deposition on foils for use as radiation targets, electrolytic method for, 25:49384 (UCRL-73121)
deposition on large surfaces, electrospraying equipment for, 21:16249
deposition on stainless steel, equipment for electro-, 23:28721 (MLM-1621)
desorption from tungsten surfaces, modulated beam method for, 25:13686
detection in air filters, use of α/β ratio of residual thoron daughter activity for, 21:39192(R) (UCRL-50007-67-1)
detection in bone sections using neutron flux, 24:39537 (IN-1317, pp 209-31)
detection in bronchial lymph nodes, development of scintillation probe for, 25:37713 (BNWL-1551(Pt.2), pp 72-9)
detection in human wounds, eddy current detector probe for, 22:19185 (BNWL-SA-1391)
detection in lungs, review of dosimetric problems in, 24:48550
detection in rats, whole-body counting method for, 22:51630
detection in spectra of peculiar A stars, (T), 25:24689
detection in tracheobronchial lymph nodes of dogs following inhalation, efficiency of esophageal probe using avalanche detectors for, 25:46815 (BNWL-SA-3759)
detection in vivo, interpreting counting data for, 22:47311 (BNWL-715(Pt.1), pp 1-15)
detection in waste storage containers, radiometric method for, 23:26492 (CEA-R-3725)
detection in wounds, development of surface-contoured semiconductor detectors for, 22:47314 (BNWL-715(Pt.1), pp 41-3)
detection in wounds, low-energy photon detectors for, 22:8340 (RFP-1068)
detection in wounds, use of avalanche-type semiconductor detectors for, 22:45281(R) (NYO-3246-TA-3)
detection of airborne, use of α/β ratio for reduction of decay periods of filter papers for, 21:26278 (UCRL-50007-66-2, pp 26-8)
detection of low-level contamination of, high-temperature ionization chamber for, 21:10640
detection on air filters using alpha/beta ratio of residual thoron daughter activity, 23:9722
detection on skin and in wounds, monitor for, 21:12676
determination as plutonium nitrate solution in polyethylene storage bottles, 25:39432(R) (BHO-69-3)
determination by amperometric titration, 22:39987 (PG-Report-832)
determination by analytical methods at Swedish Atomic Energy Company, 21:19582
determination by anodic voltammetry in perchloric acid, 24:7404
determination by complexometric titration, 24:15
determination by constant-current potentiometry, 25:39411(R) (NBL-258)
determination by controlled-potential coulometry, 23:31275 (ARH-SA-31)
determination by controlled-potential coulometry, 24:13737 (ORNL-4466, pp 89-93)
determination by controlled-potential coulometry, 24:26907(R) (NBL-250)
determination by extraction and spectrophotometry using TOPO and Arsenazo I, 23:47374
determination by gravimetric method using cobalt hexaammine chloride, 25:28982
determination by indirect coulometric titration, 23:24092
determination by indirect potentiometry, 25:54411
determination by isotope dilution mass spectrometry, 24:26907(R) (NBL-250)
determination by linear-sweep voltammetry, 25:31794 (RT/CHI-(70)44)
determination by neutron counting, nondestructive, 23:15 (NP-17579, pp V.1-2)
determination by passive γ spectroscopy, interferences in, 25:51386 (CONF-710617-15)
determination by photometry using Arsenazo III or Chlorophosphonazo III, 23:24090
determination by potentiometric coulometry, 21:34216(T) (RFP-Trans-27)
determination by potentiostatic coulometry, 22:14457
determination by precipitation with barium sulfate and alpha counting, 22:37656 (UCRL-18140, pp 101-2)
determination by reduction with cerium, 22:25236 (CEA-N-616, pp 20-71)
determination by titration using cerium sulfate solutions, standards in, 22:16414 (LA-3841)
determination by titration, remote equipment for, 24:26988
determination following thin-layer chromatography, radiometric, 25:57357
determination for establishment of material balance in fuel reprocessing plant, 25:21081 (KFK-1104)
determination for inventory verification at AEC-owned contractor site, 22:47073 (CONF-680506-2)
determination for materials safeguards, 21:46865 (WASH-1076, pp 73-81)
determination for safeguarding strategic materials, 24:39202 (WASH-1147, pp 173-7)
determination for safeguards accounting by photofission, 21:45020(R) (NYO-2598-29)
determination in 55-gal drums of radioactive waste, performance of mobile assay system for, 25:48879(R) (GULF-RT-10697)

determination in acid solutions using Arsenazo III, effects of impurities on extraction-photometric, 21:19553
determination in air by electrodeposition, 21:30352 (PHS-999-RH-27)
determination in air, alpha spectrometric, 21:36359
determination in aluminum—plutonium alloys by spectrophotometry, 23:40535 (CEA-N-1044, pp 3-50)
determination in aluminum—plutonium alloys by x-ray fluorescence, 21:34231
determination in aluminum—plutonium alloys by x-ray fluorescence, 22:12228(T) (BNWL-tr-24)
determination in aluminum—plutonium alloys, spectrophotometric, 24:22576(T) (ANL-Trans-796)
determination in aluminum—plutonium alloys, spectrophotometric, 24:11423 (CEA-N-1148, pp 3-80)
determination in ambient air, tentative radiochemical method for, 25:2113
determination in aqueous nitric acid by potentiometric titration, 23:18259(R) (PNCT-AR-67)
determination in aqueous plutonium nitrate solutions, 22:47110(R) (BAW-3714-7)
determination in aqueous solutions, recording spectrophotometer for, 23:4530
determination in ashed biological materials by lithium-activated silicon photon spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination in ashes and scrap materials, isotopic neutron source equipment and methods for nondestructive, 25:48790 (CONF-710617-20)
determination in atmosphere, plant ash, rainwater, and soils, methods for, 22:1945 (CEA-R-3220)
determination in biological and environmental materials by α spectroscopy, 25:40 (IDO-12073, pp 28-36)
determination in biological and environmental samples by precipitation and alpha counting, 23:19661 (STI/DOC-10/95)
determination in biological and environmental samples, review on radiochemical methods for, 22:8034
determination in biological materials by α spectrometry following separation by solvent extraction using DEHPA, 25:34537
determination in biological materials by gel scintillation alpha counting, 25:20927 (AERE-R-6640)
determination in biological materials by ion exchange, automatic method for, 22:3998 (CEA-N-819)
determination in biological materials by solvent extraction and liquid scintillation counting, 24:16450
determination in biological materials, establishment of laboratory for, 25:2108 (RT/PROT-(70)14)
determination in biological samples, radiochemical method for, 25:57998 (NIRS-Pu-8)
determination in blood by anion exchange and alpha spectrometry, 23:11434
determination in bones, 25:37307 (BNWL-1551(Pt.2), pp 31-4)
determination in bronchial and metastinal lymph nodes, avalanche-type semiconductor detector for, 24:50551 (NYO-3246-TA-7)
determination in ceramic fuels and feed materials, 24:31222 (BNWL-1024)
determination in debris from Anacostia and Kennebec thermonuclear events in Plowshare project, 22:37657 (UCRL-50441)
determination in dilute solutions by controlled-potential colorimetry, 22:27846 (CEA-N-816, pp 277-323)
determination in dissolver solutions in fuel reprocessing by isotopic-dilution mass spectroscopy, 22:22932 (NP-17233)
determination in environmental samples and process solutions by precipitation with barium sulfate and α counting, 23:47396
determination in environmental samples by alpha spectroscopy, 22:48839
determination in environmental samples in Greenland, radiochemical, 24:31241 (RISO-M-1242)
determination in fallout, methods for, 22:1945 (CEA-R-3220)
determination in feces and urine by solvent extraction and α spectrometry, 25:37308 (EUR-4612, pp 515-29)
determination in feces, method for, 21:27888 (BLG-408)
determination in feces, radiochemical method for, 22:44970 (AERE-AM-103)
determination in feed materials, fuels, scrap, and waste, using proportional counters and semiconductor detectors, 25:6515(R) (BHO-66-1)
determination in FFTF fuel materials, 22:5 (BNWL-SA-1388, pp 10.1-14)
determination in fission product solutions, on-line, 24:44061 (CEA-N-1292, pp 29-52)
determination in fissionable material, coincident neutron detector system for, 24:44236 (AD-703616)
determination in fissionable materials, delayed neutron response method for, 25:37570
determination in fuel dissolver solutions by tracer method and isotope dilution mass spectroscopy, 25:13081 (NP-18577)
determination in fuel element solutions, 21:30350 (NBL-238)
determination in fuel elements and reprocessing streams, destructive methods for, 25:20911
determination in fuel fabrication scraps and radioactive waste, 25:38(R) (BHO-69-1)
determination in fuel materials, equipment and nondestructive methods for, 25:20938
determination in fuel processing solutions, use of in-line alpha counters for, 22:7 (CONF-671012-2)
determination in fuel reprocessing input using lithium-7 tracer and mass spectrometry, 25:34689 (IAEA-R-876-F)
determination in fuel reprocessing plant streams, 22:16356 (KR-116)
determination in fuel reprocessing streams, methods for on-line, 24:11413 (BARC-433)
determination in fuel rods and process waste, development of spectrometer systems for, 25:13230(R) (WCAP-7562-1)
determination in fuel solutions by x-ray fluorescence techniques, 22:44974 (KFK-747)
determination in fuel solutions by x-ray fluorescence, 23:2174(T) (EURFNR-531)
determination in fuel solutions, development of automatic analytical laboratory for mass spectrometric isotope dilution, 25:21238
determination in fuels and waste for safeguarding strategic materials, 24:39194 (WASH-1147, pp 96-108)
determination in fuels from JRR-3 by alpha counting, 24:20719
determination in gallium—plutonium and iron—plutonium alloys by electron microprobe techniques, 22:39988 (RFP-1146)
determination in gel-addition process mixed samples with uranium, spectrophotometric, 21:27824(R) (BAW-3714-2)
determination in hair and skin of pigs, autoradiographic, 22:23539
determination in high-burnup plutonium dioxide fuel by isotope dilution mass spectrometry, 25:18356 (KR-140)
determination in human feces, portable equipment and methods for, 23:24489 (UCRL-50007-68-2, pp 31-4)
determination in human lungs, methods for, 22:38298
determination in human urine by hydrolysis and precipitation using bismuth oxychloride and α counting, 24:50446 (CONF-690916-(Vol.2), pp 169-73)
determination in human urine by solvent extraction and alpha counting, 23:35022
determination in hydrochloric acid solutions following solvent extraction using 4-methyl-3-penten-2-one, spectrophotometric, 24:26927
determination in inactive Purex process solutions by x-ray fluorescence, 23:17352
determination in industrial plants and solutions, evaluation of methods for, 21:34211 (CEA-R-3056)
determination in iron—plutonium uranium carbide cermets by electrochemical methods, 22:33215
determination in iron—plutonium—uranium alloys, potentiometric, 22:25236 (CEA-N-616, pp 20-71)
determination in irradiated fuels, comparison of methods for, 23:19658 (BNWL-CC-669)
determination in irradiated fuels, methods for radiochemical, 25:23522 (SRARI-P-81)
determination in irradiated fully enriched uranium-235 fuel, 23:7 (IN-1203, pp 52-61)
determination in irradiated materials by chromatographic, ion exchange, or solvent extraction and radiometric methods, 25:37269(T) (LA-tr-71-24)
determination in irradiated plutonium dioxide—uranium dioxide fuel, electron microprobe, 24:25001
determination in irradiated power reactor fuels, 23:33156
determination in irradiated reactor fuels by isotopic dilution, 23:49724
determination in irradiated thorium dioxide—uranium dioxide fuel, separation procedures in, 22:37641(R) (BAW-3809-2)
determination in irradiated thorium dioxide—uranium dioxide fuel rods by isotope dilution mass spectrometry, 24:36163 (BAW-3809-7)
determination in irradiated uranium fuels by isotopic dilution mass spectrometry following TTA extraction, 23:17343
determination in irradiation specimens, methods for, 21:17536(R) (EURAEC-1742)
determination in liquid and solid wastes at NFS facility at Erwin, Tenn., passive method for, 25:32175 (CONF-700541-, pp 281-315)
determination in low-level scrap at fuel fabrication plants by gamma spectroscopy, 24:44222 (BNL-50205, pp 16-25)
determination in lungs, development of scintillation detector for, 24:25256(R) (BNWL-1307(Pt.3))
determination in lungs, organs, and wounds, performance of lithium-drifted germanium and sodium iodide detectors for, 25:6533 (BNWL-SA-3397)
determination in man using γ and x-ray spectra, 25:20940
determination in mixed oxide fuel elements using gamma spectrometry, 25:46609 (BNWL-SA-3827)
determination in mixed oxide fuels by gamma counting, 25:1(R) (GEAP-12114-1)
determination in mixed oxide fuels, development of methods for, 25:58344(R) (LA-4693)
determination in molybdenum—plutonium—uranium fuel elements for ZPPR by γ spectrometry using on-line computer control, 24:22601
determination in neutron-irradiated uranium dioxide by mass spectrometry, 22:45004
determination in nitric acid by potentiometric titration using ceric sulfate, 24:2129
determination in nitric acid solutions by absorption spectrophotometry, effects of uranium on, 25:31788 (CEA-N-1419, pp 3-90)
determination in nitric acid solutions by titration with hydrogen peroxide, potentiometric, 22:22938(T) (EURFNR-418)
determination in nitric acid solutions of irradiated fuels, coulometric, 24:31221 (ARH-SA-55)
determination in nitric acid solutions using Arsenazo III following solvent extraction using DEHPA—dioxane, spectrophotometric, 23:37878
determination in nitric acid solutions, evaluation of 8 methods for, 24:33627 (ARH-1528)
determination in nitric acid solutions, potentiometric method for, 24:4202
determination in nitric acid solutions, rapid spectrophotometric, 22:21037
determination in nitric acid solutions, spectrophotometric, 22:16416(T) (EURFNR-386)
determination in nitric acid solutions, spectrophotometric, 22:6255 (KFK-610)
determination in noncomplexing media, polarographic, 24:11423 (CEA-N-1148, pp 3-80)
determination in noncomplexing media, polarographic, 24:22576(T) (ANL-Trans-796)
determination in nuclear materials, qualification of umpire laboratories for, 24:48241 (TID-25515)
determination in nuclear materials, qualification of US commercial and foreign laboratories for, 24:16820 (TID-25357)
determination in objects by nondestructive measurement of α-decay heat and neutron emission, 24:26998(P)
determination in organic solutions in Purex Process by spectrophotometry using Arsenazo III, 25:37266 (CEA-R-4111)
determination in organic solvents by solvent extraction using phosphorylated cellulose and scintillation counting, 22:39997
determination in oxide fuels by controlled-potential coulometry, 24:2 (BAW-4088-1)
determination in oxide scrap, coincidence-neutron counter for, 25:39432(R) (BHO-69-3)
determination in oxides by controlled potential coulometry, 25:26153 (LA-4622)
determination in oxidized reactor fuels, chemical methods for, 23:6054(T) (EURFNR-525)
determination in oxidized reactor fuels, chemical methods for, 23:2176 (KFK-701)
determination in perchloric acid solution, polarographic, 23:13616 (CEA-CONF-1116)
determination in perchloric acid solutions, polarographic, 23:40560
determination in plutonium carbide—uranium carbide, plutonium dioxide—uranium dioxide, and plutonium nitride—uranium nitride fuels by controlled-potential coulometric and potentiometric titrations, 25:8200 (LA-4537)
determination in plutonium compounds, accountability methods for, 22:6 (CONF-661011, pp 135-45)
determination in plutonium dioxide and plutonium dioxide—uranium dioxide, calorimetric, 25:48434 (CONF-710617-22)
determination in plutonium dioxide by controlled-potential coulometry, 22:40041
determination in plutonium dioxide by coulometric, potentiometric titration, and volumetric methods, 24:46167 (BARC-464)
determination in plutonium dioxide solutions, comparison of coulometric, potentiometric, and volumetric methods for, 24:50337 (CONF-690916-(Vol.2), pp 244-51)
determination in plutonium dioxide—uranium dioxide pellets by amperometry and coulometry, 24:5589
determination in plutonium dioxide—uranium dioxide systems, 25:34503(R) (NBL-256)
determination in plutonium metal by differential spectrophotometry, 22:10174 (PG-Report-290(Rev.))
determination in plutonium nitrate in nitric acid by determining free acidity, 22:39981 (EUR-3934)
determination in plutonium nitrate solutions, 22:47073 (CONF-680506-2)
determination in plutonium nitrate solutions by gamma spectroscopy, 25:6519 (IN-1433)
determination in plutonium nitrates, general analytical evolution program for, 21:38872(R) (NBL-239)
determination in plutonium nitride—uranium nitride fuels, methods for, 24:44761 (ORNL-4560, pp 39-61)
determination in plutonium—uranium alloys by α counting, 24:5600 (AERE-R-6163)
determination in plutonium—uranium alloys by α spectrometry, 25:42118(P)
determination in plutonium-containing fuels, development of methods for, 23:37872 (EUR-4133)
determination in presence of chromium, in-line process differential colorimeter for, 21:12728
determination in presence of EDTA, polarographic, 25:6260 (CEA-N-1341, pp 3-93)
determination in presence of iron by controlled-potential coulometry, 25:23513
determination in presence of uranium by oxidation using ammonium persulfate and silver nitrate, potentiometric, 25:26
determination in presence of uranium by x-ray fluorescence techniques, 22:44974 (KFK-747)
determination in process materials, evaluation of neutron detectors for remote, 22:25443 (ANL-7375, pp 46-94)
determination in process residues and wastes, development of radiometric methods for, 24:428
determination in process solutions for process control by alpha counting, 23:9295 (CEA-R-3442)
determination in process streams by differential colorimetry, 22:25241 (RFP-665)
determination in process streams by in-line x-ray fluorescence methods, 25:39420
determination in Purex Process solutions, 23:17535
determination in radioactive waste, methods for passive, 25:23765(R) (BHO-69-2)
determination in reactor fuels by ion-exchange separation and mass spectrometry, ASTM method for, 25:28978
determination in reactor fuels, methods for, 23:34992
determination in reconstituted fuels, coulometric, 22:37639(T) (ANL-Trans-610, pp 1-56)
determination in refractory materials by electrometric methods after dissolution by fusion with ammonium hydrogen sulfate, 21:21879
determination in reprocessing of irradiated fuels, on-line, 25:247
determination in reprocessing solutions, 22:39984 (KR-126, pp 153-71)
determination in scrap plutonium oxides, calorimetric and wet chemical methods for, 22:30435 (RFP-1122)
determination in scrap, calorimetric, 25:1(R) (GEAP-12114-1)
determination in seawater by ion exchange and γ spectrometry, 23:45422
determination in seawater, chemical method for, 24:10145(R) (PNCT-AR-68)
determination in seawater, review on methods for, 23:26176

determination in SEFOR fuel rods by gamma and neutron scanning, 24:44222 (BNL-50205, pp 16-25)
determination in skin and wounds, design of scintillation detector for, 23:29494(T) (AEC-tr-7021)
determination in skin, multihole collimator with scintillation detector for, 24:20989
determination in slags by oxidation, reduction, and titration, 24:36143 (CEA-N-1241, pp 3-83)
determination in sodium, 25:31764 (ANL/ST-6)
determination in soil by fusion method and α counting, 25:51584(R) (MLM-1792)
determination in soil by leaching, ion exchange separation, and alpha counting, 25:28992
determination in solid wastes, radiometric method for, 25:4293
determination in solutions by amperometric or potentiometric titration, effects of americium on, 25:10445
determination in solutions by controlled-potential coulometry, 22:36522(R) (BAW-3714-6)
determination in solutions by gamma absorptiometry, 23:26184 (CEA-R-3708)
determination in solutions by γ absorptiometry, 23:49732(T) (LIB/Trans-218)
determination in solutions by γ absorption method, apparatus for on-line, 24:43961 (CEA-N-1292, pp 113-29)
determination in solutions from dissolution of irradiated fuels, 22:37639(T) (ANL-Trans-610, pp 1-56)
determination in solutions from processing of irradiated plutonium, 22:37640(T) (ANL-Trans-628, pp 2-50)
determination in solutions of fission products by alpha counting, 23:9295 (CEA-R-3442)
determination in solutions of spent reactor fuels by x-ray fluorescence, 25:20913
determination in spent nuclear fuel solutions by x-ray spectrometry, 23:45186
determination in spent uranium oxide (UO_2) by α counting or isotope dilution, 25:37015 (BNWL-1568)
determination in SPR-irradiated plutonium dioxide targets, 22:42587 (DP-1157)
determination in sulfuric acid solutions using Arsenazo III, 22:45018
determination in tissues and water, particle track analysis in polycarbonate plastics for, 22:16883
determination in transuranium—uranium mixture by α spectrometry, 23:28986
determination in unirradiated materials in fuel plant by coulometric, gravimetric, photometric, or titration methods, 25:37269(T) (LA-tr-71-24)
determination in uranium fuel by amperometric titration, 23:11397 (AECL-3206)
determination in uranium-process solutions, alpha-spectrometric, 21:21862(R) (NLCO-996)
determination in urine by alpha counting, surface-adsorption and ion-exchange procedures in, 22:16384 (AERE-R-5637)
determination in urine by extraction using triisooctylamine and alpha counting, 22:35761
determination in urine by precipitation and alpha counting, 23:19661 (STI/DOC-10/95)
determination in urine by TTA extraction and electrolysis, 23:19661 (STI/DOC-10/95)
determination in urine, apparatus for mineralization for use in, 24:43960 (CEA-N-1292, pp 107-12)
determination in urine, in exchange method for, 23:29494(T) (AEC-tr-7021)
determination in urine, methods for radiometric, 25:37820 (EUR-4612, pp 421-35)
determination in urine, methods used at CNEN for, 25:57347 (RT/PROT-(71)9)
determination in urine, radiochemical method for, 22:44970 (AERE-AM-103)
determination in urine, use of cellulose ester filtering membranes for, 22:47072 (CEA-R-3492)
determination in USAEC-prepared materials, qualification of non-AEC laboratories for, 24:438
determination in various matrices by anion exchange and alpha counting, 23:19661 (STI/DOC-10/95)
determination in vivo, calibration of proportional detector for, 24:46480
determination in vivo, development of avalanche silicon detectors for low-level, 25:29327(R) (NYO-3246-TA-8)
determination in vivo, development of scintillation detector for, 25:377
determination in waste cartons, 22:47073 (CONF-680506-2)
determination in waste containers, design of counting system for, 25:4292
determination in waste liquids, effects of pH on cohesion-precipitation method for, 23:29494(T) (AEC-tr-7021)
determination in waste solutions by precipitation alpha counting, 23:19661 (STI/DOC-10/95)
determination in waste waters by alpha particle measurements, 23:19661 (STI/DOC-10/95)
determination in water, use of solid-state track detectors and (n,f) reactions for, 23:616
determination in wounds, development of scintillation detector for monitoring, 21:3242 (DP-1059)
determination in wounds, development of silicon avalanche detectors for, 24:39301
determination in wounds, surface-contoured semiconductor detector for, 24:25256(R) (BNWL-1307(Pt.3))
determination in ZPPR fuel by gamma spectrometry, 23:43475 (CONF-680506-, pp 205-20)
determination of, 21:39003 (UCRL-14494)
determination of, 23:15 (NP-17579, pp V.1-2)
determination of abundance of, relative to oxygen in plutonium dioxide—uranium dioxide mixture by controlled-potential coulometry, 24:26936
determination of hexavalent, in irradiated aluminum—plutonium alloys by solvent extraction using TTA and spectrophotometry, 25:6260 (CEA-N-1341, pp 3-93)
determination of hexavalent, tetravalent, and trivalent, in nitric acid solutions by spectrophotometry, 24:11429 (RFP-1391)
determination of micro and semimicro amounts of, titrimetric method for, 23:9301 (ORNL-4343, pp 11-23)
determination of pentavalent, in disproportionated solutions of tetravalent plutonium, method of estimating, 23:24143 (MLM-1588)
determination of tetravalent in presence of hexavalent, using Xylenol Orange, photometric, 21:8224
determination of tetravalent, in acid solution using Xylenol Orange as indicator, complexonometric, 21:15842
determination of tetravalent, in presence of hexavalent plutonium using xylenol orange, photometric, 21:8224
determination of trace amounts of trivalent, in solutions of tetravalent plutonium, spectrophotometric, 25:20908 (CEA-R-4135)
determination of trace amounts of, by isotopic dilution and mass spectrometry, 22:14434 (ORNL-4196, pp 93-8)
determination of trace amounts of, in biological material, preliminary separation methods for, 21:34229
determination of trace amounts of, in uranium containing graphite by ion exchange separation and γ spectrometry, 25:31788 (CEA-N-1419, pp 3-90)
determination of trace amounts of, spectrochemical, 25:6 (FOA-4-4432)
determination of tri-, tetra-, and hexavalent, by chromatography and ion exchange, 23:40546
determination of valence state distribution of, by absorption spectrophotometry, 24:13737 (ORNL-4466, pp 89-93)
determination of various oxidation states of, methods for, 23:13645
determination of, aerial surveying detector system for, 25:34862 (EGG-1183-1517)
determination of, apparatus using ion exchange resins for use in, 24:43960 (CEA-N-1292, pp 107-12)
determination of, automatic elution apparatus for use in, 24:29175 (CEA-R-3922)
determination of, by constant-current potentiometric titration using potassium dichromate, 21:12340
determination of, coincidence neutron detectors for, 25:364 (AD-707706)
determination of, correction coefficients for mass-spectrometric, 25:12927
determination of, design of multi-unit isothermal calorimeter for, 24:7415 (RFP-1401)
determination of, development of methods for, 22:40156(R) (EURAEC-2031)
determination of, development of semiconductor detector for, 24:36340 (CEA-N-1241, pp 255-89)
determination of, effects of grade of ion-exchange resin on potentiometric, 21:27893(R) (NBL-237)
determination of, effects of ruthenium on, 23:40535 (CEA-N-1044, pp 3-50)
determination of, evaluation methods for, 23:24063
determination of, for safeguards programs, 21:45016 (WASH-1076, pp 65-72)
determination of, in air filters and soils, method for, 21:15858
determination of, in fluidized-bed waste, method for, 21:1430 (ORNL-3995, pp 36-70)
determination of, in irradiated HFIR fuel elements, 21:1421(R) (ORNL-3965)
determination of, in plutonium silicides and plutonium silicon carbides, 21:2932 (AERE-R-5280)
determination of, in plutonium uranium carbide—iron cermets, electrochemical, 21:8222
determination of, in urine, radiochemical, 21:12277 (CONF-651008-, pp 1-19)
determination of, methods for, 23:24073
determination of, methods for, 22:23114
determination of, methods for, 21:14172
determination of, methods for, 21:35895
determination of, mixed in soil, by neutron activation methods, 21:12325
determination of, polarographic, 23:13620 (CEA-R-3641)
determination of, polarographic, 22:16682
determination of, portable unit for passive, 24:18901(R) (LA-4320)
determination of, preparation of standards for, 21:30345(R) (IN-1063)
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, review of methods for, 23:40533(T) (ORNL-tr-2186)
determination of, review on methods for, 22:8033
determination of, survey of gravimetric, oxidation-reduction, spectrophotometric, and volumetric methods for, 23:47373
determination of, titrimetric method for, 25:31788 (CEA-N-1419, pp 3-90)
determination of, using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, extraction-photometric, 21:12358
determination of, voltammetric method for, 23:9301 (ORNL-4343, pp 11-23)
determination of, x-ray spectrographic method for, 21:38871 (CEA-R-3098)
determination relative to uranium in oxide fuel fabrication process, in-line x-ray fluorescence, 25:23641(R) (ANL-7767)
determination relative to uranium in oxide fuels by x-ray fluorescence, in-line, 25:2306(R) (ANL-7735)
determination relative to uranium in oxide fuels during fabrication, 25:57507(R) (ANL-7799)
determination simultaneously with nitric acid by conductivity and density measurements, 25:18350
determination simultaneously with uranium in Purex Process solutions by x-ray spectroscopy, 24:38711 (KFK-1121)
determination simultaneously with uranium in sulfuric acid solutions by controlled potential coulometry, 23:49707
determination simultaneously with uranium using platinum working electrode, coulometric, 25:4025
determination using Arsenazo, spectrophotometric, 22:10173 (ORNL-TM-2108)
determination using arsenazo, spectrophotometric, 22:14428 (ORNL-4196, pp 33-44)
determination using o-[[7-[[5-(diethylsulfamoyl)-2-methoxyphenyl]azo]-1,8-dihydroxy-4,5-disulfo-2-naphthyl]azo]benzenearsonic acid, photometric, 21:27916
deuteron reactions with thin targets of, at 9 to 14.2 MeV, (E), 25:15046
deuteron stopping power measurements, 24:12891(R) (RISO-M-961)
development for nuclear uses, operation of inert atmosphere system in, 25:54945 (CONF-710401-, pp 98-105)
development for reactor fuels, 22:734
development for reactor fuels, review, 22:12954
development for reactor fuels, review of, 23:10198
development of fuels of, design of laboratory for use in, 25:4302
development of fuels of, technology for, 25:19198
development of pressurized water reactor, using fuel cycle, 25:10222
development of reactor fuels of, in Italy, 23:18204
development, history, preparation, and toxicity, 22:7048
diffusion from clad fuel elements, use of aluminum or graphite barrier for prevention of, 25:8857
diffusion in alpha and epsilon phases of, under high pressure, mechanisms of self-, 25:4785 (CEA-R-4092)
diffusion in aluminum, 22:41051
diffusion in aluminum at 550 to 630°C, 25:29867
diffusion in bcc epsilon-phase of, to 1000°C and pressures of 0 to 20 kbar, self-, 25:49420
diffusion in binary magnesium-base alloys containing elements of periodic groups IIIB or IVB, 23:36144
diffusion in delta-stabilized gallium—plutonium alloy at 240 to 644°C, self-, 25:24567
diffusion in epsilon phase on welded couples of copper—plutonium alloy and, chemical, 25:11387
diffusion in epsilon phase, self, 22:49764
diffusion in fuel elements of, barriers against, 21:40717(P)
diffusion in high performance uranium dioxide fuel rods, 21:28862 (GEAP-5100-4)
diffusion in hyperstoichiometric plutonium dioxide—uranium dioxide at 1250 to 1500°C, effects of oxygen/metal ratio on, 25:29964
diffusion in hyperstoichiometric uranium carbide, effect of carbon content on, 23:26984 (BMwF-FBK-68-56)
diffusion in irradiated alloys, use of alpha particles recorded on thin films to study, 22:40320 (CEA-R-3426)
diffusion in irradiated aluminum—magnesium and magnesium—zirconium alloy fuel element cladding, effects of intermetallic plutonium—aluminum precipitation on, 24:14747
diffusion in irradiated fuels, determination of axial, 21:46854(R) (GEAP-5098)
diffusion in irradiated Magnox Zr55 fuel element cladding at 400 to 450°C, 24:14748
diffusion in irradiated mixed-oxide fuel rods, (E/T), 22:30343(R) (EURAEC-1992)
diffusion in magnesium and magnesium alloys at 420 to 500°C, 21:14788
diffusion in magnesium and zirconium alloys, 21:39602(P)
diffusion in magnesium fuel element cladding during fusion, 22:27847 (CEA-N-816, pp 324-58)
diffusion in mixed oxide fuels during irradiation, 25:18098(R) (BNWL-1522-1)
diffusion in mixed oxide fuels during irradiation, (E), 25:6012
diffusion in nickel, 23:8181
diffusion in plutonium—uranium alloys at 400 to 550°C, 22:52164(T) (RFP-Trans-52)
diffusion in plutonium—zirconium alloys, 21:39627
diffusion in pyrolytic carbon, effects of temperature and time on, 23:19464(R) (GA-8200)
diffusion in sodium chloride, solid-state, 25:54758 (ORNL-4717, pp 109-15)
diffusion in stainless steel at 700 to 1000°C, 21:30300
diffusion in uranium, 21:32878
diffusion in work areas during overheating accidents, methods for controlling, 24:5860
diffusion in zirconium at 650 to 900°C, welded couple method for studying Kirkendall effect occurrence during, 25:35333 (CEA-CONF-1760)
diffusion in, effects of 0 to 20 kilobars pressure on solid-state self-, 25:650 (CEA-CONF-1635)
diffusion of cobalt in, measurement of rate of, 25:32702
diffusion of cobalt in, tracer studies of, 25:58212 (NRCN-268)
diffusion of trivalent, in hydrochloric, nitric, perchloric, and sulfuric acids, 24:7404
diffusion of, solid-state, 21:32916
diffusion studies on, 21:44830(R) (GA-7396)
diffusion through cladding, fuel element design for prevention of, 21:21819(P)
diffusion through fuel cans, coatings for prevention of, 21:38797(P)
diffusion through Magnox fuel cans, coatings for prevention of, 21:38780(P)
diffusion through Magnox fuel cans, coatings for prevention of, 21:38786(P)
diffusion through Magnox fuel cans, coatings for prevention of, 21:38787(P)
diffusion through tantalum capsules, use of silicon detectors for monitoring, 21:19897 (LA-3654)
diffusion under hydrostatic pressure, activation volume study of self-, 25:11371 (CEA-CONF-1690)
dispersion from nuclear weapons accident, description of Operation Roller Coaster for measuring, 24:22789 (SC-RR-69-788)
disposal of waste solutions of, methods for, 22:8200

disproportionation in oxalate—perchlorate solution, rate of, 23:119
disproportionation of pentavalent and tetravalent, effects of hydrolysis on, 25:72 (MLM-1743)
disproportionation of pentavalent, distribution of valence states from, 25:6399(R) (MLM-1751)
disproportionation of quinquevalent, in oxalate solutions, effects of acidity and temperature on, 23:7508
disproportionation of tetravalent and pentavalent, 24:20746 (MLM-1717)
disproportionation of tetravalent and pentavalent, effects of presence of hexavalent plutonium on, 25:8239 (MLM-1744)
disproportionation of tetravalent, in nitric and perchloric acids, chromatographic studies on, 25:57357
disproportionation of tetravalent, stoichiometry of, 22:16483 (MLM-1482)
disproportionation of, effects of pH on, 24:20746 (MLM-1717)
disproportionation of, predominance region diagram for, 25:31890 (MLM-1807)
disproportionation reactions of tetravalent and pentavalent, oxidation states of products from, 25:18383
dissociation in aqueous solutions, compilation of constants for, 24:18978
dissolution by nitric acid, 22:25452 (CEA-N-616, pp 154-214)
dissolution by sodium bisulfate fusion or acid attack, 25:39411(R) (NBL-258)
dissolution in hydrochloric acid, heat of, 22:11946(R) (COO-1716-4)
dissolution in hydrofluoric acid—nitric acid systems, rate of electrolytic, 22:30508 (RFP-1136)
dissolution of, 22:2088
dissolution of irradiated fuels of, AT1 process for, 22:25452 (CEA-N-616, pp 154-214)
dissolution of materials containing, sealed-tube method for, 21:6801 (LA-3554)
dissolution of residues of, in calcium fluoride—nitric acid solvent, 21:5997 (RFP-776)
dissolution of, in water, safety aspects of, 21:5833 (HW-51937)
distribution and excretion following inhalation in soluble compounds, effects of DTPA on, 25:35091
distribution and retention in tissues of dogs following inhalation as oxide particles, calculated using mathematical model and computer, 25:6620 (BNWL-B-2)
distribution and trapping of, in sodium reactor cooling systems, 21:12237 (LA-DC-8094)
distribution between aqueous nitric acid and tridodecylamine, 24:46321
distribution between fused salts and liquid metals in fuel reprocessing, 22:51044 (ANL-7425, pp 19-41)
distribution between hydrochloric or nitric acid solutions and zirconium phosphate ion exchanger, equilibrium studies on, 23:33260
distribution between liquid bismuth and molten fluorides, 24:36362
distribution between magnesium alloys and molten salts in pyrochemical fuel processes, 21:25935(R) (ANL-7225)
distribution between molten beryllium fluoride—lithium fluoride and liquid bismuth solution, chemistry and thermodynamics of, 25:39592
distribution between molten beryllium fluoride—lithium fluoride—thorium fluoride salts and liquid bismuth at 525 to 700°C, 24:266 (ORNL-4422, pp 1-47)
distribution between molten magnesium chloride—potassium chloride—sodium chloride and copper—magnesium alloy or magnesium—zinc alloy, 22:25442 (ANL-7375, pp 19-45)
distribution between nitric acid and TBP, 22:14559 (KFK-671)
distribution between nitric acid and TBP, 22:33484(T) (EURFNR-463)
distribution between nitric acid and TBP, effects of valence state on, 25:57357
distribution between nitric acid solutions and ion exchangers, 24:260(T) (ANL-Trans-776)
distribution between nitric acid solutions and TBP simultaneously with uranium, 24:9472
distribution coefficient of tetravalent, in benzene—lithium perchlorate—perchloric acid—TTA system, 23:37944
distribution in Al80 and Zr55 Magnox alloy fuel element cladding, effects of irradiation time on, 24:14863
distribution in aluminum nitrate—dodecane—nitric acid—tributyl phosphate, coefficients of, 24:11653 (CEA-N-1148, pp 183-271)
distribution in aluminum nitrate—dodecane—nitric acid—tributyl phosphate, coefficients of, 24:22723(T) (ANL-Trans-799)
distribution in aqueous sodium and uranyl nitrate solutions during directed crystallization, 22:2038
distribution in blood serum proteins of man and rats, use of gel permeation-and ion exchange chromatography to determine, 23:24629
distribution in carbide and oxide fuels, 24:43990 (ANL-7650, pp 23-34)
distribution in ceramic reactor fuels, autoradiographic method for determination of, 24:5831
distribution in dilute plutonium—titanium and plutonium—zirconium alloys, effects of β and α phase transformation and oxygen content on, 25:11431 (CEA-CONF-1691)
distribution in dodecane—TBP solution, coefficient of, 24:36339 (CEA-N-1241, pp 179-254)
distribution in flowing sodium in forced convection stainless steel loops, 22:43629(R) (LA-3933)
distribution in irradiated ceramic reactor fuels, α spectrometry of, 24:4841
distribution in irradiated fuels of plutonium dioxide—uranium dioxide, radial, 23:26209 (ANL-7550, pp 35-73)
distribution in irradiated plutonium dioxide—uranium dioxide fuel pins, 25:40113
distribution in liver of rats, 22:51295 (AWRE-O-28/68)
distribution in lung tissues of personnel following inhalation as aerosols, effects of particle size on, 25:37799 (EUR-4612, pp 383-401)
distribution in lungs and pulmonary lymph nodes of dogs, man, and rats following inhalation, 22:21507
distribution in lungs following inhalation by dogs and rats, mechanisms for, 23:14152 (BNWL-SA-2205)
distribution in molten plutonium oxide—uranium oxide fuels, 22:8837
distribution in plutonium carbide—uranium carbide pellets, effects of annealing in thermal gradients on, 25:16597 (ANL-7703)
distribution in plutonium dioxide—uranium dioxide pellets, effects of annealing in thermal gradients on, 25:16597 (ANL-7703)
distribution in plutonium oxide—uranium oxide fuel, effects of composition and thermal gradients on, 25:52463
distribution in proteins of blood serum, 21:24280 (AWRE-O-15/67)
distribution in rat liver following intravenous injection, use of gel permeation chromatography for determining, 24:31817
distribution in reactor fuel elements, resolution of alpha autoradiography with platinum film insert for determining, 22:44942
distribution in serum proteins of rats, 23:2748
distribution in sintered plutonium dioxide—uranium dioxide fuels, methods for measurement of, 25:4875
distribution in tetrabutyl pyrophosphate in mixture with mineral acids or tetrabutyl hypophosphate, 22:27853 (INP-591/C)
distribution in tissues of dogs following wound contamination as plutonium oxides in comparison to americium-241, effects of DTPA on, 25:16012
distribution in tissues of personnel following ingestion or inhalation, methods for measurement of, 25:37800 (EUR-4612, pp 437-68)
distribution of americium between molten chlorides and liquid, 22:12290
distribution of inhaled, in tissues of man, 21:28428 (BNWL-SA-1247)
distribution of polymerized, in bone marrow, kidney, liver, and spleen of mice following intravenous injection, 22:28537 (ANL-7278, pp 170-84)
distribution of, between irradiated TBP and aqueous solutions, 21:15927
distribution of, between liquid americium and potassium chloride—sodium chloride fused salt, 21:5839 (LA-3562)
distribution of, between protein and non-protein components of blood serum, 21:3370 (AWRE-O-37/66)
distribution of, in solids, irradiation and fission-product track mapping of, 21:5810
Doppler effect measurements in ZPR-9 assemblies 12-17, 22:32734 (ANL-7310, pp 137-248)
Doppler effect of, effects of isotopic composition on, 22:27396(R) (AI-AEC-12638)
Doppler reactivity effects in plutonium fueled critical assemblies, (E), 25:6109
dosimetry in man, use of biochemical analysis of urine for, 23:7996 (LA-DC-9774)
ductility of alpha-phase, effects of grain size on, 23:41622
economic analysis of reactor fuels of, for high temperature gas cooled power reactors, 23:37514
economics as thermal power reactor recycle fuel, 24:13554
economics of fuel elements of, in Gargliano and Trino power reactors, 22:22685 (EUR-3890)
economics of fuels of, 22:14289 (BNWL-635)
economics of fuels of, in reactors designed for uranium, (T), 22:20780 (BNWL-624, pp 4.1-16)
economics of power reactor fuel cycle, 25:48254 (CONF-680989-, pp 31-8)
economics of recycle fuel in Canada of heavy water reactors, 24:11143
economics of recycling in heavy water moderated thorium converter reactor fuel, 24:43769
economics of, as BWR fuels, 22:6024
economics of, as marine reactor fuels, 23:2096 (BNWL-851)
economics of, effects of high gain breeder reactor development on, 23:31144
economics of, for breeder reactor fuels, factors affecting future, 23:33918 (DUN-SA-81)
effects of, biological, 23:41609
effects on americium determination by coulometric titration at conducting glass electrode, 23:28689
effects on animals and man, review of physiological and toxicological, 22:8490
effects on bones of mice, carcinogenic and pathological, 21:39446(R) (NYO-3777-7)
effects on colorimetric determination of zirconium, 22:48817 (MLM-1542)
effects on concurrent reduction and precipitation of uranium from liquid copper—magnesium alloy, 22:25442 (ANL-7375, pp 19-45)
effects on crystal structure of plutonium oxide—uranium oxide, 24:42274
effects on determination of uranium, 23:15 (NP-17579, pp V.1-2)
effects on economic and safety aspects of processing spent fuel, 21:34322
effects on electrolytic reduction of uranyl ions in solution, 22:10261(P)
effects on lattice parameters of alpha-uranium at 43°K, 25:14452
effects on lungs of rabbits following inhalation, chemical composition of blood following pneumosclerotic, 23:48208
effects on man following exposure in criticality accident, 22:38246
effects on physics parameters of boiling- and pressurized-water reactors, 22:22658 (BNWL-475)
effects on polarographic determination of uranium, 23:40536(T) (EURFNR-631)
effects on power level operation in fast reactors of, (T), 22:5934 (RT/EC-(67)1)
effects on properties of carbon—molybdenum—uranium system, 21:36928 (CEA-R-3229)
effects on purification of fluorine by distillation, 22:21047
effects on radiolysis of water solutions during storage, gas evolution from, 24:22669 (FOA-4-4419)
effects on reactor safety of replacement of fuels of, with uranium-235, 22:53384
effects on solvent properties of tridodecylamine for some fission products and thorium, 22:37862
effects on solvents in nuclear fuel reprocessing, 22:18865 (ORNL-4212)
effects on spectrophotometric determination of fluorine, 25:6263 (FOA-4-4416)
effects on spectrophotometric determination of nitrous acid in Purex process solutions, 23:2179 (NP-17554)
effects on spectrophotometric determination of uranium, 25:44321
effects on stability of steam-cooled fast breeder reactors, 22:5921 (EURFNR-398)
effects on swine following intradermal injection, latent pathological, 23:6564 (BNWL-714, pp 1.1-20)
effects on titrimetric determination of uranium, 25:39411(R) (NBL-258)
effects on volatilization of uranium, 22:27852(R) (EURAEC-2011)
elastic moduli at low temperatures, temperature dependence of, 22:44233
elastic properties at high temperatures, 23:32028 (CEA-R-3771)
elastic properties of epsilon-phase polycrystalline, 23:6687
elastic properties of epsilon-phase polycrystalline, 24:21366(T) (LA-4292-TR)
elastic properties of eta-phase, 23:32028 (CEA-R-3771)
electric conductivity at 26 to 773°K, 21:34885 (LA-1883)
electric conductivity at low temperatures of α- and β-, magnetic effects on transverse, (E), 22:672
electric conductivity of, 21:34244(R) (BNWL-228)
electric conductivity of alpha-, effects of self-irradiation damage on low-temperature, 25:38561
electric conductivity of alpha-phase, comparison with values for α-manganese, 22:19529
electric conductivity of nitric acid solutions of, 25:23583 (KFK-1306)
electric conductivity of, anomaly in, 25:6866
electric potential of trivalent/tetravalent couple of, in nitric acid solutions, 25:10514 (AERE-R-5320)
electrochemical properties in molten chlorides, 23:35053 (CEA-R-3793)
electrochemical properties of, 23:24073
electrochemical properties of, in acetic and perchloric acid solutions, 23:40535 (CEA-N-1044, pp 3-50)
electrochemical properties of, polarographic studies on, 23:13620 (CEA-R-3641)
electrochemistry in carbonate solutions on hanging mercury drop electrode, 22:18778
electrolytic refining of, fabrication of components for, 21:36903 (LA-3707)
electron band structure calculations for fcc, 25:30696(R) (COO-2103-3)
electron binding energies in, K-shell, 24:35167
electron binding energy in, beta spectroscopy studies on, 22:37675
electron binding energy of, photo-electron spectroscopic determination of, 21:32913
electron configuration interaction integrals for Pu I and Pu II, 22:38782
electronic structure of, 22:30531
electronic structure of alpha-phase, 22:43590 (ANL-7299, pp 201-19)
electrorefining cells for, fabrication of aluminum oxide and magnesium oxide, 23:10265
electrorefining of, 21:476(P)
electrorefining of, design of ceramic accessories for use in, 21:43105
electrorefining of, effect of impurities on, 23:14318 (LA-DC-9809)
electrorefining of, fabrication of aluminum oxide and magnesium oxide cell parts for, 22:31442
electrorefining of, fabrication of magnesia stirrers for, 21:470 (RFP-825)
emittance of spheres of, effects of surface condition and temperature on, 22:15203
encapsulation in welded containers, equipment and procedure for, 22:43540 (LA-3937)
encapsulation techniques for self-irradiation experiments at cryogenic temperatures, (E), 21:11580
energy-level transitions in, ratio of probability of $K\beta_3$ to $K\beta_1$, (E), 24:28081
enrichment and production of, IAEA system for controlling and inspecting, 23:47725 (NP-17955)
enthalpy of solution of carbon, manganese, rhenium, thulium, titanium, and zirconium in liquid, 25:11386
enthalpy of solution of eleven metals in, 23:38977
entropy and heat of vaporization of, 24:19451
entropy at 25°C, estimated, 24:20767
entropy of, 22:4147
entropy of trivalent, 22:11946(R) (COO-1716-4)
equations of state for, constants for, 22:32735 (ANL-7310, pp 249-375)
equilibrium potentials in molten chlorides, 22:42669
equilibrium potentials in molten chlorides, thermodynamics for, 23:26221(T) (RFP-Trans-54)
etching and polishing of alpha-, beta-, and delta-, ac electrolytic method for, 24:25668
etching and polishing of stabilized delta, design of cell for electrolytic, 23:29995
etching and polishing of unalloyed, design of cell for electrolytic, 23:29995

etching and polishing thin foil edges of α, electrolytic equipment and methods for, 24:25666
etching of, electrolytic method for, 23:3042(P)
etching of, method for, 22:23748(P)
etching of, process for, 22:21668(P)
evaluation as reactor fuel in Western world, review on, 23:18203
evaluation as thermal reactor fuel, 23:10192
evaluation of fuel-element, facility design for, 22:4403
excretion by man, effects of DTPA and EDTA on, 22:28479
excretion by persons occupationally exposed via nitric acid burns, effects of DTPA on, 21:6544
excretion by rats following inhalation, 23:16256 (NIRS-7, pp 83-97)
excretion from rats, effects of zirconium on, 25:6616(T) (AEC-tr-7169, pp 199-204)
excretion in rats, effects of DTPA and deferoxamine on rate of, 23:9893
excretion in urine of man, effects of iron and protein content of diet on, 23:35616
excretion in urine of personnel following deposition in lungs, mathematical model for determining, 24:4547 (BNWL-1159, pp 30-5)
excretion in urine of personnel following inhalation, effects of DTPA on, 22:28351
excretion of inhaled, in urine, 21:28428 (BNWL-SA-1247)
excretion of, body burden determination using data on, 22:27521(R) (ORNL-4236)
excretion of, effects of DTPA on, in man, 21:6400(T) (CONF-660412-7)
excretion of, effects of DTPA treatment on, 21:36564 (BNWL-SA-962)
excretion of, in rats, effects of DTPA treatment on, 21:18008
fabrication and processing of, criticality in, 22:8202
fabrication costs of fuel elements of, 21:34168 (BNWL-SA-923)
fabrication for fast and thermal reactors fuels, 22:10010(R) (NP-17126)
fabrication for reactor fuels, high temperature properties for, 21:42729(R) (LA-3745)
fabrication into fuel rods for Belgian Reactor-3, 21:46843(R) (EURAEC-1884)
fabrication into reactor fuel elements, chart on capabilities of U. S. companies for, 23:3038
fabrication methods for water-cooled power reactor fuels of, 22:6037
fabrication of BR-2 fuel elements of, evaluation of safeguards systems for proposed facility for, 25:21304
fabrication of delta-stabilized, methods for, 21:30979 (LA-3703)
fabrication of enriched fuel of, in Belgium, industrial, 23:41575
fabrication of fuel elements containing, for fast breeder reactors, economics of, 25:52423 (A/CONF.49/P-274)
fabrication of fuel elements from, problems with, 24:18663
fabrication of fuel elements of, in Germany, plant optimization and safeguards for, 23:41564 (KFK-910)
fabrication of fuel elements of, mathematical model for analyzing plutonium inventory errors during, 25:32168 (CONF-700541-, pp 140-52)
fabrication of fuel elements of, operation and performance of safeguards system for, 25:21300
fabrication of fuel elements of, radiation hazards in, 21:11190 (ANL-7155, pp 1-166)
fabrication of fuel elements of, radiation protection during, 22:1755 (BNWL-SA-1326)
fabrication of fuels of, 22:22877
fabrication of high density uniform fine grain size α-, extrusion and recrystallization method for, 24:14751
fabrication of high-exposure, effects of radiation levels on facility design for, 24:29920 (CONF-700502-, pp 59-73)
fabrication of higher burnup fuels of, health and safety problems in, 24:29921 (CONF-700502-, pp 85-98)
fabrication of metal-clad liquid metal-insulated sheathed bar-type fuel elements of, 22:42484(P)
fabrication of mixed powders of enriched uranium and, 22:10075(R) (EURAEC-1929)
fabrication of plates of, for fuel elements for zero-power reactors, 22:36439 (ANL-7365)
fabrication of reactor fuel elements of, description of safeguard exercise for, 23:40804 (KFK-901)
fabrication of sintered pellet and granular uranium oxide (UO_2) with varying pitch helical wire of, description of, 22:25194(P)
fabrication of stainless steel-clad ceramic fuel elements of, welding methods for, 23:8172
fabrication of unalloyed, methods for, 22:8714
fabrication of ZPPR fuel elements of, 21:31898(R) (ANL-7329)
fabrication of, by electrorefining in fused salt electrolyte, 21:11208 (ANL-7155, pp 167-289)
fabrication of, design of hood piping, ventilation, and control valve for use in, 22:14654
fabrication of, dissolution of scraps from, 22:18867 (RFP-890)
fabrication of, industrial methods for, 23:19846
fabrication of, nuclear materials management in, 24:39192 (WASH-1147, pp 80-3)
fabrication of, radiation chemistry of glovebox materials in, 23:47466 (RFP-1376)
fabrication of, safety criteria for, 25:49205 (BNWL-CC-1906)
fabrication of, safety procedures for, 22:36439 (ANL-7365)
fabrication of, safety requirement and economics for, 23:2130 (BNWL-SA-2065)
fabrication of, testing of perchloroethylene as solvent for degreasing and machining during, 21:43564 (RFP-921)
fission product decay heat from irradiated, effects of decay time on, 23:13539(R) (BNWL-921)
fission product gamma spectra, 21:1068 (AE-241)
fission product yield measurements from fast neutron fission in, gamma scanning techniques for, 22:27487(R) (LA-3880)
fission products of, contamination of terrain by, 22:8529(T) (JPRS-42929, pp 293-330)
fission rate of, spontaneous, 23:24258
fission yields of neodymium from, absolute thermal, 21:25715(R) (GEAP-5403)
fluorination of, fluidized-bed, 22:35881 (ANL-7450, pp 21-38)
fluorination of, thermodynamics of, 22:27852(R) (EURAEC-2011)
formation of hexavalent, during dissolution and boiling of breeder reactor fuels or uranium oxides, catalytic effects of iron on, 22:27845 (CEA-N-816, pp 150-276)
friction of all allotropes at 25 to 575°C, internal, 21:36863(R) (MLM-1347)
friction of allotropes of, 22:2612(R) (MLM-1402)
fuel capacities for power reactors, computer program projected to 1990, 2000, and 2010, 23:4258
fuel characteristics of, description of, 23:2130 (BNWL-SA-2065)
fuel cycle cost predictions to 1980, for U.S. power reactors, 24:11121
fuel cycle for low-enriched, safeguards studies using dynamic mathematical simulation of complete, 25:21311
fuel cycle for thermal reactors, operation aspects of, 25:18143
fuel cycle in HTGR-type reactors, computer program for optimum, 23:4244
fuel cycle parameters for, computer program for variable scheme calculations of, 22:7807 (GEAP-5494)
fuel cycles for, 24:1998 (EUR-4238)
fuel cycles for fast breeder and thermal converter reactors, calculation of, 25:26068
fuel cycles for high temperature gas cooled reactors, economics of, 25:60097 (ORNL-TM-3525)
fuel cycles for, development of, 25:19189
fuel development in Japan of, analysis of problems for long and short term, 23:33123
fuel economics in fast power reactors, comparison with uranium of, 24:11146
fuel loading for boiling and water-cooled reactors, procedures and configuration for optimum, 23:2130 (BNWL-SA-2065)
fuel recycle for, analysis of economic optimum uranium diluent enrichment in, 23:4469
fuel requirements and economics for Western Europe power reactors during 1990 to 2010, 23:28485 (NP-17556(App.))
fuel requirements for Western Europe power reactors during 1970 to 2010, 23:17166 (NP-17767)
fuel requirements for Western Europe power reactors during 1990 to 2010, effects of fabrication and reprocessing on, 23:17167 (NP-17767(App.))
fuels development program for, Pacific Northwest Laboratory November 1966, 23:23849(R) (BNWL-359)
fuels development program for, Pacific Northwest Laboratory June 1967, 23:23856(R) (BNWL-499)
fuels development program for, Pacific Northwest Laboratory December 1966, 23:23850(R) (BNWL-369)
fuels development program for, Pacific Northwest Laboratory April 1967, 23:23854(R) (BNWL-444)
fuels development program for, Pacific Northwest Laboratory February 1967, 23:23852(R) (BNWL-404)
fuels development program for, Pacific Northwest Laboratory January 1967, 23:23851(R) (BNWL-375)
fuels development program for, Pacific Northwest Laboratory May 1967, 23:23855(R) (BNWL-468)
fuels development program for, Pacific Northwest Laboratory March 1967, 23:23853(R) (BNWL-425)
fuels of, operations characteristics and cost calculations of high temperature pebble bed reactor, 23:21443
furnace for melting, dismantling and disposal of large-capacity, 24:11721 (CEA-CONF-1423)
gamma dose rates of, surface, 21:19893 (BNWL-339)
gamma-ray attenuation coefficients at 0.088 to 2.75 MeV, total, 24:30158
grain growth of alpha, under hydrostatic pressure, 21:36865
grain growth of gallium-stabilized delta, 21:34914(R) (NUMEC-3428-32)
grain size and microstructure of single crystals of alpha, effects of pressure on, 21:22890(R) (NUMEC-3428-29)
grain size of α-, β-, and γ-, effects of heat treatments and phase transformations on, 25:27244 (BNWL-1545)
grain size of beta-phase, metallographic method of determining, 24:48848 (CONF-690954-, pp 172-90)
grain size of β, relations with plasticity, 25:16533
grain size of β-, 25:11444
grain structure of alpha, electron microscope study of, 22:8770
Hall effect in oriented and random α-, 25:17317
handling and inspection of fuels of, design of hot cell for, 24:462
handling and storage methods for, 25:49205 (BNWL-CC-1906)
handling and storage of, facility for, 24:1068 (ORNL-4422, pp 203-29)
handling facilities for, air cleaning systems in, 22:150
handling irradiated fuel elements of, design of equipment and facilities for, 22:6512 (EUR-3619)
handling of irradiated, at Karlsruhe, equipment and methods for safe, 24:31657
handling of, conference on safety in facilities for, Rocky Flats, Colo., April 13 to 16, 1971, 25:54937 (CONF-710401)
handling of, downdraft table for, 21:1491 (UCRL-14849)
handling of, facility at Barnwell Nuclear Fuel Processing Plant for, 24:25097 (DOCKET-50332-11)
handling of, gloveboxes lined with Teflon for, 23:11396 (RFP-823)
handling of, review on factors in controlling personnel exposure during, 22:8333
handling of, tables of gamma spectra for consideration in, 22:51042 (CEA-R-3547)
handling procedures for, 23:35442
handling procedures for, analysis of safety, 22:25158
handling procedures for, description of safety, 22:14209
handling safety analysis at Rocky Flats Nuclear Safety Facility, 22:2273 (RFP-977)
handling small samples of, design of pneumatic system for, 22:45227
handling, at Plutonium Recycle Test Reactor, safety measures for, 21:36569 (BNWL-SA-1345).
hardness of alpha, at 75 to 375°K, effects of grain size on, 25:11389
hardness of α-, at 77 to 373°K, effects of grain size on, 25:35465
hardness of β, effect of parent phase on, 21:45908
hazards from release of, owing to oxidation, 21:8802 (RFP-799)
hazards in processing of, effectiveness of air samples for determination of, 21:39398 (LA-DC-8608)
hazards to marine environment, 23:12107
heat treatment of, 21:24741(P)
heterogeneity of scrap materials of, 25:39411(R) (NBL-258)
hydrolysis in aqueous solutions, 21:35895
hydrolysis of, 22:2090
hydrolysis of hexavalent, 25:20965 (KFK-1068)
hydrolysis of tetravalent, in non-complexing medium, 23:37944
hydrolysis of tetravalent, reaction products from, 21:10301 (CEA-R-3092)
hydrolysis of, development of equipment for, 22:27677
ignition in air—carbon dioxide mixtures, effects of oxygen content on, 25:54946 (CONF-710401-, pp 106-17)
ignition in air—nitrogen mixtures, effects of oxygen content on, 25:54946 (CONF-710401-, pp 106-17)
ignition of metallic, factors affecting, 22:19470
ignition of, effects of oxygen, solvent vapor, and water vapor on, 25:16442 (RFP-1566)
incorporation in cells of liver and spleen of mice, autoradiography of, 23:35626
inhalation by man in accidents, guide for estimation of severity of, 23:45773
inhalation by man, interpretation of counting data following, 23:24638
inhalation by man, use of urinalysis data to determine effects of particle size on lung burden and whole-body burden following, 23:24640
inhalation by personnel during fires, 22:28351
inhalation by rabbits, effects of, on metabolism in tissues of lungs, 23:4869
inhalation by rats following chamber administration, 25:6611(T) (AEC-tr-7169, pp 124-36)
inhalation of aerosols of, design of equipment for measuring, 23:50004
inspection of irradiated fuels of, design and operation of containment boxes in hot cells for, 24:463
inspection of, review on methods for, 22:8327
internal conversion coefficients for, calculation using Gaspar correction for screening effect, 25:1744
ionization potential of, surface ionization comparison measurement of first, 23:51372
isotopic composition of power reactor fuels of, from discharge to ten years cooling time, (T), 24:26775 (ORNL-TM-2897)
isotopic content of, coincidence neutron detector for determining, 23:47729 (AD-689733)
isotopic ratios in, radiochemical determination of, 23:18259(R) (PNCT-AR-67)
isotopic variations in MTR-Phoenix zoned core loading of fuel elements of, 22:14289 (BNWL-635)
leaching from calcined zirconium fluoride-type waste, 23:38025 (IN-1298)
location in wounds, fabrication and performance of proportional and scintillation detectors for, 23:14007
losses during Purex-type waste processing, material balance accounting system for determination of, 24:2422 (WASH-1140, pp 75-114)
losses in melting of magnesium—zirconium alloy fuel cladding, 22:8175(T) (ANL-Trans-544)
machining behavior, 22:41028
machining hazards, 22:26032
machining of delta-phase, equipment and methods for, 24:42066 (RFP-1428)
magnetic properties at low temperatures, 23:40616 (UCRL-18735, pp 5-80)
magnetic susceptibilities of tetravalent, in cesium plutonium chloride, tetraethylammonium plutonium chloride, and tetramethylammonium plutonium chloride, 25:51434
magnetic transition in delta-, aluminum-27 NMR search for, 25:14481
management at scrap processing facilities, methods for, 25:21283 (IAEA-R-741-F)
management of, chemical, 24:22576(T) (ANL-Trans-796)
management of, chemical, 24:11423 (CEA-N-1148, pp 3-80)
mechanical properties of, summary of, 22:2632
melting point anomalies of, 21:26825
metabolism and toxicity in animals and man following ingestion or inhalation, review of, 23:14152 (BNWL-SA-2205)
metabolism and toxicity in man in relation to treatment of contamination, 23:9849
metabolism by dogs following contamination of experimental wounds, 24:11904 (COO-1787-6)
metabolism in animals and man, 22:38255(R) (EUR-3918)
metabolism in beagle dogs following wound contamination in relation to americium-241 metabolism, 24:14390(R) (COO-1787-8)
metabolism in beagle dogs from subcutaneous implants of plutonium dioxide, effects of DTPA on, 25:21560

metabolism in bone and liver of dogs, man, and swine, 22:2479 (BNWL-SA-1252)
metabolism in lungs of mammals following exposure to aerosols from nuclear detonation, 21:32597
metabolism in mammals following intramuscular and intravenous injection, 24:11905 (EUR-4281)
metabolism in man and rats following inhalation, ingestion, or wound intake, 25:51970 (NIRS-Pu-6)
metabolism in man, preparation of plutonium-237 for tracer study of, methods for, 22:28385
metabolism in man, radiometric analysis of urine for long-term study of, 24:564
metabolism in rats, effects of chelating agents and colloids on, 25:6616(T) (AEC-tr-7169, pp 199-204)
metabolism in rats, effects of pregnancy on, 22:8478
metabolism in rats, effects of pregnancy on, 25:6614(T) (AEC-tr-7169, pp 171-9)
metabolism in rats, factors affecting biological and physicochemical interactions during, 25:46674 (BNWL-SA-3964)
metabolism of monomeric and polymeric, in mice and rabbits, review on, 25:51969 (CONF-711001-(Vol.2), pp 551-9)
metallographic facility for, design and operation of glove box, 22:8249 (CONF-670533-9)
metallography of, design of glovebox facility for studies of, 22:14658
metallography of, design of glovebox metallograph for, 23:30092
metallography of, preparation of samples for, 22:2656
metallography of, review on optical, 21:18226 (GA-7127)
metallurgical properties and microstructure of, 21:11208 (ANL-7155, pp 167-289)
metallurgical properties of nuclear materials containing, 22:31357
metallurgy of, health and safety support in facility for studying, 25:55204 (CONF-710401-, pp 267-79)
metallurgy of, laboratory techniques for studying, 22:2634
microstructure and tensile properties of, review on, 23:45989
microstructure of deformed alpha-phase, 23:30049 (BNWL-981)
microstructure of, specimen etching and polishing methods for resolution of, 23:27021
migration in mixed-oxide reactor fuels, (E), 22:27397 (ANL-7375, pp 135-59)
monitoring at Kyoto University Research Reactor, 23:29472 (KURRI-TR-34)
monitoring design system in chemical processing plants, for continuous, 24:2098 (IN-1316, pp 6-35)
monitoring during loading of ZPR III, methods for, 22:23553
monitoring following accidents, design of equipment for, 23:12124
monitoring in air with silicon surface barrier detector, 21:19972
monitoring in air, performance of installed and personal air samplers for, 23:14172
monitoring in air, program for, 23:16286 (LA-4076)
monitoring in air, use of alpha spectrometer and beta—alpha delayed coincidence method for, 22:28157
monitoring in air, use of semiconductor detector air sampling system for, 22:14752 (RFP-1046)
monitoring in atmosphere, design of system for, 22:32961 (ANL-7310, pp 377-430)
monitoring in industrial facilities, development of instruments for, 22:23551
monitoring in Japanese nuclear facilities using glass dosimeters, 23:18259(R) (PNCT-AR-67)
monitoring in nuclear personnel, routine procedures for, 24:27582 (CONF-690540-, pp 356-79)
monitoring in processing plant at la Hague, France, method for routine, 24:2122
monitoring in processing plant at Marcoule, France, methods for routine, 24:2123
monitoring in sanitary waste system effluent from West Valley Processing Plant, 25:34683 (DOCKET-50201-73)
monitoring of airborne, device for, 21:36359
monitoring of airborne, in environs of nuclear personnel, routine programs for environmental and individual, 24:44519
monitoring of, in atmosphere and water in environs of Mound Laboratory, 1966, 21:10866(R) (MLM-1356)
monitoring of, in puncture wound, 21:14650
monitoring of, in water in environs of Mound Laboratory, 1965, 21:10865 (MLM-1335)
monitoring of, neutron counters for, 22:35881 (ANL-7450, pp 21-38)
monitoring of, temperature sensitivity of scintillation detector for, 23:50124 (UCRL-50007-69-1, pp 14-18)
monitoring on surfaces, use of thallium-activated sodium iodide scintillation detectors for, 21:26156 (UCRL-50007-66-2, pp 1-6)
monitoring surface contamination of, design and performance of portable scintillation detectors for, 21:39192(R) (UCRL-50007-67-1)
movement in aquatic systems, 25:55150 (CONF-710401-, pp 407-10)
movement in soils, effect of moisture on, 21:25971 (BNWL-CC-925)
neutron cross sections for recycled, use for critical experiments analysis of modified ENDF/B, 23:37750
neutron fission in aqueous solution, effects of plutonium-240 content on, (E), 23:46981 (CEA-R-3650)
neutron fission of, short-lived delayed gamma spectra and fragment yields from fast, (E), 25:17899
neutron flux measurements in fuel elements enriched with, 21:38663(R) (GEAP-5486)
neutron multiplication factor in subcritical fuel assemblies of, use of 05R Monte Carlo code for calculation of, 22:33056
neutron reaction rate measurements in fuels of, 22:33079
neutron reactions with, 22:3737
neutron slowing down in, inelastic, (T), 22:35211
neutron spectra and fluence to dose conversion factors for, (E), 24:30665 (BNWL-1262)
neutron spectra of, 22:23084 (BNWL-SA-1644)
neutron spectral studies from fuel elements of, 21:23599(R) (GA-7562)
neutron total cross sections for, calculation of non-Doppler broadened, 22:1763(R) (GEAP-5533)
neutron yields from, effects of carbide or oxide form on, 25:39562(R) (HEDL-TME-71-55)
nuclear group constants for, evaluation of, 25:51226 (JAERI-13507)
oxidation and reduction in Purex Process, 25:57507(R) (ANL-7799)
oxidation and reduction in reprocessing of irradiated fuels, effects of acidity on, 23:26328(T) (RFP-Trans-55)
oxidation and reduction of, 22:37823(T) (ANL-Trans-619)
oxidation and reduction of, in processing of irradiated fuels, effects of acidity on, 22:47224
oxidation at 250 to 420°C, kinetics of, 23:22479
oxidation at 90°C of, effects of relative humidity on, 22:682
oxidation at low humidity, rates of, 25:11346 (AWRE-O-100/66)
oxidation by chlorine in hydrochloric acid solutions, catalytic effects of ions on, 21:23855 (AEET-275)
oxidation by hydrogen peroxide, catalytic effects of iron on, 24:44022
oxidation by nitrate, 22:2016(R) (BAW-3714-4)
oxidation by nitric acid, 22:25452 (CEA-N-616, pp 154-214)
oxidation in air and moist argon, 21:32826
oxidation of alpha-, in various atmospheres, 21:32827
oxidation of α-atmospheric, 21:39543 (AWRE-O-4/62)
oxidation of hexavalent, in alkaline media, method for, 24:210
oxidation of hexavalent, in alkaline solutions, 24:9322
oxidation of ignited, in air stream, fractional release during, 25:54546
oxidation of reactor-grade and ultrapure, in oxygen and air at 140 to 550°C, effects of moisture on kinetics of, 21:9072
oxidation of tetravalent to hexavalent, using manganese dioxide, 22:18743(T) (EURFNR-417)
oxidation of tetravalent, by chromium, effects of catalysts on, 24:38858
oxidation of tri-, tetra-, and hexavalent, by anhydrous acetic acid, 21:40833
oxidation of trivalent, by hexavalent neptunium in perchlorate solutions, effects of chloride ions on, 24:22650
oxidation of trivalent, effect of acid concentration on, 25:48506
oxidation of trivalent, in lithium chloride—potassium chloride eutectic, chronopotentiometric study of, 25:57420
oxidation of trivalent, to tetravalent using nitrous vapors, 21:12436(P)
oxidation of trivalent—tetravalent mixture of, in Salt Cycle Process, method for measuring rate of, 21:12495 (BNWL-CC-373)
oxidation of, ellipsometer studies of, 23:45282
oxidation of, mechanisms of, 22:12963 (RFP-1056)
oxidation potential for trivalent—tetravalent, 25:57437
oxidation states of, 22:2090
oxidation states of, in dilute nitric acid complementary tristimulus and quadristimulus colorimetric determination of, 21:32182
oxidation—reduction of, during solvent extraction studies, effects of formaldehyde—formic acid mixtures on, 23:40787(T) (AEC-tr-7076, pp 20-72)
oxidation—reduction of, during solvent extraction studies, effects of uranium(IV) on, 23:40787(T) (AEC-tr-7076, pp 20-72)
oxidation-reduction potential of, effects of pH on, 25:41831
oxidation-reduction reactions of, kinetics of aqueous, 22:30520
oxygen-16 ion reactions with, production of nobelium-255 in, 22:30579
packaging and shipping of metallic, design and safety evaluation of LLD-1 container for, 25:26446 (DPSPU-71-124-1)
particle release from thermally stressed, to 1000°C, measurement of rate of, 25:4258 (BNWL-SA-3379)
particle size in thermal reactor recycle fuel, nuclear and fast transient aspects of, 23:37540
performance as reactor fuels, economics of, 22:10449
performance characteristics of fuels of, 23:43120
performance in EBWR fuel elements, 22:6025
performance in fast breeder reactor fuel cycle, 22:35514
personnel contamination by, development of Registry for medical data on, 23:24667
personnel contamination by, problems in medical management of, 23:24656
phase distribution in production electrorefining, (E), 22:12986 (RFP-1065)
phase studies, 24:2976
phase studies of, 21:30216
phase studies of allotropic forms of, 22:2627
phase studies of α—β transformation in monocrystalline, at low temperatures, 25:11443
phase studies of, acoustic emission method for, 24:32454
phase studies on, determination of $\beta \rightarrow \alpha$ time-temperature-transformation curve in, 21:45950
phase studies using high resolution television and metallograph, 23:30088
phase transformation in, acoustic emissions from martensitic, 23:3072 (UCRL-50525)
phase transformation in, comparison of enthalpic analysis and high pressures for determination of heats of α—β, 25:11445
phase transformation in, effects of gamma-phase heat treatments on kinetics of β—α, 25:11444
phase transformation kinetics in, alpha-beta, 21:32907
phase transformation of pure, dilatometric study of delta—gamma, 22:49714(T) (MLM-1547(tr))
phase transformations in, 21:24779 (CEA-R-3062)
phase transformations in, 21:32869
phase transformations in cast thermal cycled, 22:10941(P)
phase transformations in high-purity, 21:32905
phase transformations in high-purity, mechanisms of exothermic reaction cessation at approximately 100°C in, 23:22572
phase transformations in rapidly cooled rods of, effects of mold temperature on, 24:4806
phase transformations in, diffusion mechanisms of, 22:28838
phase transformations in, dilatometric measurements of, 21:32906
phase transformations in, effects of annealing on, 23:46084
phase transformations in, effects of internal transformation stresses on pre- $\alpha \rightarrow \beta$, 21:16616
phase transformations in, effects of neptunium and titanium on, 21:24784
phase transformations in, effects of plastic deformation and stresses on, 21:13201
phase transformations in, effects of pressure and temperature on, 21:32911
phase transformations in, internal friction measurements for study of, 24:4805
phase transformations in, kinetics of, 23:38991
phase transformations in, review of data on, 25:11437
phase transformations in, review on mechanisms of, 24:42138 (UCRL-72557)
phase transformations in, studies of, 21:32908
phase transformations in, theoretical studies on melting relation in, 21:24795
phase transformations in, thermodynamics of, 21:32885
phase transformations of, heat of, 21:36863(R) (MLM-1347)
phase transformations of, microcracking in, 21:498
phase transitions of, kinetics of, 21:20466
photon reactions at 0.001 to 15.0 MeV, cross sections for, 21:17297 (UCRL-50178)
photon reactions with, absorption and total cross sections, biological dose response functions, and heat response functions for, (E), 25:41223 (CEA-N-1424)
photon spectra of, 22:23084 (BNWL-SA-1644)
photon total cross sections at 1 to 600 keV for, (T), 24:52575
physical properties and thermal treatment of nuclear materials containing, 22:31357
physical properties of alpha-phase, at 20 to 600°K, 21:32871
physical properties of alpha-phase, at 4 to 77°K, 21:32870
physical properties of alpha-phase, at 60°K, 21:32872
physical properties of, review of, 21:39633
physical properties of, summary of, 22:2627
physicochemical properties of diluent—trioctylamine solutions of, 24:38841
physics calculations for thermal reactor fuels, (E/T), 25:18135 (EUR-4477)
physics measurement for water-moderated fuel assemblies of, 23:2130 (BNWL-SA-2065)
physics measurements on, as fuel in ZPR-3 Assembly-48, -49, and -50, and ZEBRA-6A and -7A, analysis of, 23:4336
plastic deformation of alpha, effect of strain-rate and temperature on, 22:49754
plasticity of β, effects of heat treatment and strain hardening on, 22:23794
plating with indium, lead, or zinc incorporating primary coating of adherent metal, method for electro-, 24:19402(P)
plutonium-236 and plutonium-238 content in recycled, effect of recycled enriched uranium on, 23:47339(R) (BNWL-1106)
polarographic behavior of, 23:15 (NP-17579, pp V.1-2)
polarographic behavior of, effects of EDTA on, 25:31788 (CEA-N-1419, pp 3-90)
polishing of homogenized delta-phase, method for electrolytic, 24:48803 (CONF-690954-, pp 161-71)
positron annihilation radiation in, at 4.2 to 623°K, angular correlation of, 25:11997
precipitation by oxalic acid, method for continuous, 22:25452 (CEA-N-616, pp 154-214)
precipitation from amine phase, design of continuous precipitator for, 23:38079
precipitation from solutions by electrodialysis, 22:25450 (CEA-N-616, pp 86-96)
precipitation from tridodecylamine by oxalic acid, 23:347 (NP-17553)
precipitation in ammonium carbonate solutions using hexaamminecobalt chloride, chemical and crystallographic properties of compounds produced by, 25:12980
precipitation in substoichiometric oxides, 21:28837 (KFK-543)
precipitation of delta-, in thermal cycling of cerium—plutonium alloys, 22:41064
precipitation of tetravalent, using sodium metavanadates, 24:11528
precipitation with manganese and zirconium hydroxides, 24:36372
precipitation with uranium in nitric acid solutions, effects of ammonia on, 22:25452 (CEA-N-616, pp 154-214)
preparation and properties of, 21:35895
preparation and properties of compounds, 23:41609
preparation and properties of heptavalent, 25:57404
preparation and stability of heptavalent, 22:14486(T) (ANL-Trans-574)
preparation and use of ZPPR fuels of, nuclear materials management during, 25:32160 (CONF-700541-, pp 21-32)
preparation by electrolysis in fused chlorides, 22:27847 (CEA-N-816, pp 324-58)
preparation by electrolysis of plutonium trichloride in fused chlorides, 22:25455 (CEA-N-616, pp 295-368)

preparation by fluorination using dichlorodifluoromethane followed by bomb reduction using calcium, 21:18227 (HW-30040)
preparation by liquid metal-fused salt process, 23:975
preparation by reactions of lithium with cesium plutonium hexachloride, 23:28850(P)
preparation by reduction of chloride, 22:151
preparation for alpha spectrometry by electrochemical deposition, 23:47559
preparation for optical microscopic examination, method for, 25:47139
preparation of alpha sources of, 21:5983
preparation of α recrystallized, using electrorefining, 22:23791
preparation of colloidal solutions of tetravalent, 22:21750 (EUR-3737)
preparation of foils of, development of laboratory equipment for, 22:27951 (FOA-4-4347-24)
preparation of high-purity, 22:43590 (ANL-7299, pp 201-19)
preparation of high-purity, by electrorefining, 24:25724 (ANL-7417, pp 71-7)
preparation of irradiated fuel solutions of, for chemical analysis, 24:11423 (CEA-N-1148, pp 3-80)
preparation of irradiated fuel solutions of, for chemical analysis, 24:22576(T) (ANL-Trans-796)
preparation of metallic, calciothermic method for, 22:27848 (CEA-N-816, pp 359-414)
preparation of molten, from fused fluorides by electrowinning, 22:151
preparation of radiation sources of, method for, 24:22909(P)
preparation of radiation targets of, methods for, 25:59634 (CONF-711002-, pp 59-69)
preparation of rods of cast, effects of mold temperature on density and microcracking, 22:17085
preparation of samples containing, for electron-probe microanalysis, 21:32083 (AERE-M-1889)
preparation of samples for electron microscopy, 21:9084 (LA-DC-7867)
preparation of single crystals of, 21:34914(R) (NUMEC-3428-32)
preparation of single crystals of delta phase of, method for, 21:11208 (ANL-7155, pp 167-289)
preparation of single-crystal alpha-, 21:9187(R) (NUMEC-3428-26)
preparation of specimens of, for optical microscopy, 24:44683
preparation of spherical particulate salts of, method for, 23:39023(P)
preparation of standards of, 23:8 (IN-1203, pp 62-6)
preparation of targets by electrodeposition on aluminum, 25:25604
preparation of thick samples of, by powder metallurgy, 25:58181 (CONF-711002-, pp 77-81)
preparation of thin films of, by electrophoresis and electrospraying, 25:58183 (CONF-711002-, pp 160-5)
preparation of thin films of, by vacuum evaporation, 22:21675(T) (UCRL-Trans-10232)
preparation of thin films of, for electron microscopy, 21:31035 (RFP-899)
preparation of, by electroreduction, 21:14805
preparation of, by reduction of plutonium tetrafluoride using calcium, 21:14805
preparation of, conversion processes for, 22:8032
preparation, properties, and structure of, review of, 23:45496
processing facilities for, installation and performance of HEPA filters for, 25:54947 (CONF-710401-, pp 118-32)
processing facility for, administrative procedures for Rocky Flats, 25:54960 (CONF-710401-, pp 293-6)
processing fuels of, safety aspects in designing fluidized-bed volatility pilot plant for, 21:10420 (ORNL-TM-1593)
processing in chemical plants, radiation protection of personnel during, 23:50552 (RFP-1254)
processing in inert gas atmosphere glove boxes, effects of air in-leakage on, 25:54944 (CONF-710401-, pp 83-97)
processing of, 21:46843(R) (EURAEC-1884)
processing of fuels of, soil studies and foundation design for West Valley Processing Plant for, 25:4154 (DOCKET-50201-52)
processing of irradiated, by solvent extraction and ion exchange, 21:32244
processing of liquid waste materials of, methods and safety at Los Alamos plant for, 25:54708 (CONF-710401-, pp 369-85)
processing of scrap, safeguards capabilities of materials accounting systems in facilities for, 25:54968 (IAEA-R-878-F)
processing of, administrative methods for criticality control in, 25:54966 (CONF-710401-, pp 430-7)
processing of, corrosion-resistant properties of tungsten crucibles for use in pyrochemical, 21:19732
processing of, design of equipment and facilities for chemical and metallurgical, 22:8201
processing of, design of plant using nitrogen atmosphere for, 25:54943 (CONF-710401-, pp 69-82)
processing of, effects of thermal stress on airborne particle release during, 25:54546
processing of, electrometallurgical, 23:14318 (LA-DC-9809)
processing of, evaluation of shielding materials for use in, 25:54962 (CONF-710401-, pp 307-10)
processing of, instrumental methods for measuring accumulations in, 23:35276
processing of, operation of building ventilation system for, 25:54948 (CONF-710401-, pp 133-48)
processing of, safeguards requirements for ALKEM plant at Karlsruhe, 24:18692
processing of, safety criteria for design of facilities for, 25:54967 (CONF-710401-, pp 438-53)
processing of, safety in, 22:8331
processing reactor fuel of, 21:30290
production and airborne release of particles of, in overheating accidents, 23:29020
production and industrial uses of, predictions for, 22:23709
production and properties for use as reactor fuel, review of, 23:9262
production and separation of, review of, 22:6363
production and use in Euratom countries, Great Britain, and U.S., estimates to 1975 of, 22:28729
production and use in Euratom Countries, Great Britain, and US, estimates to 1975 of, 23:24809(T) (NP-tr-1749)
production and uses of, review on, 25:13059
production at 55 kbar of single-crystal, during beta-to-alpha phase transformation, 23:38986
production at Hanford, control and inspection system for, 23:6270 (HW-62119)
production at La Hague facility, 23:24356
production at Marcoule Center, methods for treatment of liquid waste from, 23:50087(T) (ANL-Trans-777)
production at Marcoule, processing of wastes from, 23:47601
production by calciothermic reactions, initiation triggering device for, 25:10760(P)
production by calcium reduction of plutonium tetrafluoride, 24:20862
production by direct reduction of oxide, 22:31336 (UCRL-50403)
production by direct reduction of oxide using calcium, 24:17222 (ARH-1198)
production by electrorefining, economics and equipment for, 21:24732 (RFP-871)
production by heavy water-moderated water-cooled 500 MW reactors of, analysis of optimum economic, 22:30261
production by pyrochemical reduction of plutonium dioxide using calcium, 25:8236 (ARH-SA-72)
production by reduction of oxide in molten fluoride by aluminum, 22:42808 (CEA-R-3435)
production by reduction of plutonium hexafluoride, crucible design and process for 1-g-scale, 23:48369
production by reprocessing of spent fuel by Purex process, 25:51588
production by thermal and fast breeder power reactors, effects on fuel economics of predicted, 23:23921
production by US power reactors through 1990, 22:45245 (BNWL-716)
production economics in fast breeder power reactors, 22:5936(T) (JPRS-43265)
production for nuclear industry in Federal Republic of Germany, 25:51552 (A/CONF.49/P-378)
production from oxide by calcium reduction, 23:38949
production from oxide, electrolytic cell for, 22:33528
production in 1000 MW(e) uranium oxide (UO_2) fueled liquid sodium cooled fast reactors, analysis of optimum, 24:43724
production in breeder reactors, economic prospects of, 21:23617 (RISO-M-532)
production in breeder reactors, growth laws for, 21:2832
production in CIRENE type power reactors, economic evaluation of, 24:9109 (CONF-681219-1)
production in fast breeder reactors, safeguards problems in world-wide, 21:40574 (RM-5148-PR)
production in fast breeders of, economic feasibility of, 21:27691 (ORNL-TM-1800)
production in fast reactors, fuel cycle analysis for, 21:21804
production in Federal Republic of Germany, 25:57666
production in Fermi Fast Breeder, 21:30096(R) (APDA-CFE-5)
production in France for power reactor fuels, 25:6846
production in France, 1967 summary of, 23:4461 (NP-17597, pp 109-35)
production in France, development of methods for, processing of liquid waste solutions from, 25:21120
production in France, economic outlook for, 24:14682
production in France, radiation protection service operation for, 23:14171
production in fuel elements of heterogeneous thermal reactors, reactivity effects of, (T), 22:50848
production in future power rectors, safeguards problems associated with, 25:37565
production in gas-cooled graphite-moderated natural- and enriched-uranium fueled reactors, effects on core lifetime of, 22:50762
production in heavy water-moderated reactors of, economic aspects of fuel, 22:5914 (AECL-2944)
production in JRR-1, measurement of, 25:57320
production in light water reactors, economic evaluation of, 23:17733 (ORO-665, pp 85-119)
production in nuclear fuel elements, method for estimating burnup and, 22:14525
production in nuclear power plants, IAEA control methods for, 24:2427
production in nuclear reactors, 22:3737
production in power reactors, use of measured electrical output data for calculating, 25:21303
production in Swiss power reactors, forecasts to 1990 of, 25:35310
production in thermal reactors for fast reactor fuel, 22:12040
production in thermal reactors, analysis of world market economics for, 22:42212 (TRG-Report-1695)
production in water reactors, optimum lattices for, 21:7948
production in Yankee Power Reactor Core 5, (E/T), 24:33175(R) (WCAP-3017-6092)
production of alpha-phase, at high pressure, 22:8778
production of dense, crack-free castings of, for reactor fuel, 22:10941(P)
production of first 200 grams of, in Japan, design and development of facilities for, 24:14146
production of high-purity, method for, 21:3480(P)
production of metallic, methods used for handling plutonium compounds in, 24:9451
production of sols of, design of Solex equipment for, 22:25586
production of, 1966 JCAE hearings on, 22:12217
production of, air-contamination control in, 22:27970
production of, design of reaction vessel for, 21:26040(P)
production of, dissolution of slag from, 22:18867 (RFP-890)
production of, effects of SENA Power Reactor fuel recycle on optimum, 23:37440
production of, effects of water cooled reactor fuel recycle in Belgium on, 23:37534
production of, inspection system for indicating continued shutdown of reactor, 21:46959 (WASH-1076, pp 87-95)
production of, international safeguard requirements for predicted, 23:49574
production of, nuclear materials management in, 24:44224 (BNWL-1399)
production of, review of research on, 22:40121
production rate predictions to year 2000, 23:45045 (AECL-3293)
production requirements by 1990 of, analysis of breeder reactor, 22:35691
properties and technology of, review of, 22:43574
properties as reactor fuel, technology of, 21:36844
properties at low temperatures, electric and thermal, 24:39620 (CONF-691208-(Vol.1), pp 53-61)
properties for nuclear fuels, 22:19645
properties for reactor fuel, economic and technical, 21:7945
properties for use as nuclear fuel, review on, 25:45044
properties for use as reactor fuel, 22:43663
properties for use in reactor fuel elements, bibliography on, 21:23759
properties of aerosols produced by combustion of, 23:46010
properties of colloidal state of tetravalent, in aqueous solutions, 24:38853
properties of compounds of, with sodium chloride-type structure, 21:40694 (ANL-7349, pp 92-109)
properties of heptavalent, review on, 24:16495
properties of high-purity β-phase, 21:32869
properties of irradiated, equipment for study of, 22:4377
properties of irradiated, facility design for study of, 22:4320
properties of isotopic fuel forms of, tabulations of, 24:7483 (MLM-1691)
properties of monocrystalline α-, effects of crystallographic orientation on electric and magnetic, 25:12005
properties of plutonium-238-enriched, for use as heat source, 24:22887
properties of, chemical and physical, 23:49903
properties of, compilation of chemical and physical, 23:15831 (HW-57386)
properties of, data sheets on, 22:8724 (MLM-1441)
properties under high temperature and pressure, 21:6834
protection of personnel during handling and processing of, methods for, 22:4621
proton reactions with thin targets of, at 9 to 14.2 MeV, (E), 25:15046
proton stopping power measurements, 24:12891(R) (RISO-M-961)
purification and concentration of aqueous sulfate solutions of, continuous countercurrent extraction process for, 22:30656(P)
purification by amine extraction, 24:267 (ORNL-4422, pp 48-106)
purification by anion exchange from concentrated nitrate solutions, 24:7488 (RFP-1408)
purification by continuous ion exchange, control system for operation of equipment in, 25:57510 (ARH-SA-82)
purification by electrodiffusion or zone-melting, 21:24779 (CEA-R-3062)
purification by extraction using tridodecylamine and precipitation from organic phase, 23:38079
purification by high-temperature slagging processes, 22:6383
purification by ion exchange, 23:38075
purification by solvent extraction using tributyl phosphate, 22:35891
purification by solvent extraction using tridodecylamine diluted in alkylbenzene—dodecane mixture, 24:36339 (CEA-N-1241, pp 179-254)
purification by solvent extraction using tridodecylamine, 22:35893
purification by solvent extraction using tridodecylamine, 22:27845 (CEA-N-816, pp 150-276)
purification by thermal decomposition, 24:41397 (RFP-1357)
purification by tridodecylamine extraction, 22:37824(T) (ANL-Trans-626, pp 1-35)
purification by tridodecylamine extraction, 22:37823(T) (ANL-Trans-619)
purification of, 22:33507
purification of, 23:17504(T) (AEC-tr-7028, pp 14-96)
purification of, 22:30664
purification of, 22:33527
purification of, 22:35881 (ANL-7450, pp 21-38)
purification of, 22:45146 (NP-17588)
purification of acidic solutions of, 25:8338(P)
purification of nitric acid solutions of, by ion exchange, 21:36101
purification of product, from solvent extraction in fuel reprocessing by ion exchange, 22:40170 (KR-126, pp 229-44)
purification of scrap, fluidized-bed fluoride volatility process for, 25:46555
purification of scrap, from weapons production process by fluidized-bed fluoride volatility process, 23:19821 (CONF-680610-, pp 79-98)
purification of streams of, 21:31898(R) (ANL-7329)
purification of, by ion exchange, 21:12499 (LA-3499)
purification of, design of equipment for, 24:33835
purification of, development and evaluation of methods for, 23:24276 (LA-3542)
purification of, development of extraction and refining procedures for, 25:21080 (INIS-mf-4)
purification of, electrorefining process for, 21:45880(P)

purification of, ruthenium decontamination factors in, 22:23099(R) (K-L-1780(Pt.23))
purification of, use of neutron-poisoned ion-exchange column for, 21:5998 (RFP-782)
purification on silica-gel column of tridodecylamine-extracted, 22:16688
radiation damage in beta-phase, self-induced, 21:32937
radiation damage to compounds of, self-, 22:2699
radiation dose from, deposited in wounds, calculation of, 21:8801 (RFP-795)
radiation dose from, inhaled by man, calculation of, 21:8801 (RFP-795)
radiation dose rates from, after chemical separation, 22:23084 (BNWL-SA-1644)
radiation effects on, 22:36515
radiation effects on α—β transformation temperature in, thermal neutron, 25:11467
radiation effects on diffusion of, in plutonium dioxide—uranium dioxide fuels, fast neutron, 25:40139
radiation effects on distribution between TBP and aqueous nitric acid solutions, effects of isopropylbiphenyl on, 25:4116
radiation effects on electric conductivity of alpha-fission-fragment, 25:52901(T) (JPRS-53800, pp 62-71)
radiation effects on electric conductivity of alpha-, 77°K neutron, 25:1300
radiation effects on electric conductivity of α- and β-, at low temperatures, self-, 25:11960
radiation effects on electric conductivity of α-, expression for relation of holding time in liquid helium with self-, 25:27837 (AERE-R-6506)
radiation effects on encapsulated liquid, neutron, 21:8045(R) (LA-3625)
radiation effects on fuels containing, 21:33008
radiation effects on fuels of, 22:10050
radiation effects on fuels of, review on, 22:8804
radiation effects on length of alpha-, beta-, and delta-phase, at 1.4 to 4.2°K, measurement of self-, 24:51182 (CEA-CONF-1619)
radiation effects on length of α-, below 4.2°K, self-, 25:22120
radiation effects on length of α-, self-, 25:11468
radiation effects on low-temperature electric conductivity of alpha-, equation for self-, 25:38561
radiation effects on, at low temperatures, 24:39620 (CONF-691208-(Vol.1), pp 53-61)
radiation from, design and performance of portable survey scintillation detector for x, 23:11762 (UCRL-71362)
radiation hazards of highly irradiated, 22:19669 (BNWL-624, pp 2.1-32)
radiation protection methods for personnel in laboratory using, 22:36268
radiation testing of fuel elements of, in PRTR, 21:44935 (BNWL-SA-1204)
radioactivity in reprocessing breeder fuels, 22:10322 (KFK-603)
radiography of, epicadmium method for, 23:38214
radioinduced contraction of β- and delta-, at 4.2°K, self-, 25:8904
radioinduced defects in, at 87°K, from self-irradiation, annealing of, 21:32939
radioinduced elongation of α-, at 1.5°K, self-, (E), 24:36942
radioinduced evaporation of uranium dioxide incorporated, at 8000 MWd/t burnup, 23:36272
radioinduced heating in fast reactor fuels of, best-equations solution for effects of fission products on, (T), 23:13443
radioinduced length increase with time at 4°K of alpha-, self-, 21:28805
radiolysis of nitric acid solutions of, yields of gases from, 22:33372 (BNWL-751)
radiolysis of stored aqueous solutions of, effects of acids on gas evolution from alpha self-, 25:15660(T) (AEC-tr-7217)
radiolysis of, oxidation by chromic acid following self-, 24:38859
reaction with xenon trioxide, effects of acidity and temperature on kinetics of, 21:32164
reactions in nitric acid, effects of solution parameters on kinetics of, 21:25878
reactions in perchloric acid, formation and decomposition of peroxy complexes in, 25:2154
reactions in sodium carbonate solutions on hanging mercury drop electrode, 22:18778
reactions of heptavalent, with potassium permanganate, 25:32042 (CEA-N-1419, pp 411-40)
reactions of hexavalent, with formaldehyde or formic acid, catalytic effects of iron on, 22:27845 (CEA-N-816, pp 150-276)
reactions of hexavalent, with hydrogen peroxide, 22:27845 (CEA-N-816, pp 150-276)
reactions of hexavalent, with nitrous acid or nitrogen oxide, catalytic effects of iron on, 22:27845 (CEA-N-816, pp 150-276)
reactions of hexavalent, with tetravalent neptunium in perchlorate solutions, 24:9310
reactions of liquid, with refractory metals at high temperatures, 21:30963
reactions of liquid, with sodium at 700 and 825°C, 21:32859 (LA-3545)
reactions of tetravalent, with hexavalent chromium, catalytic effects of cerium, manganese, and silver on, 25:15571
reactions of tetravalent, with pentavalent neptunium and metallic lead in nitrate solutions, 24:9311
reactions of tetravalent, with tetravalent neptunium in perchlorate media, 24:9317
reactions of, in liquid magnesium and zinc solutions, activity coefficients for, 21:4479 (ANL-7125, pp 119-49)
reactions of, in perchloric solution, kinetics of oxidation—reduction, 21:5831 (CEA-R-3079)
reactions of, kinetics and heat treatment parameters of solid-state, 22:2633
reactions of, with uranium trichloride, 21:12505
reactions with aqueous phosphoric acid, spectral studies on coexistence of tetravalent uranium in, 22:40057
reactions with Arsenazo, effects of valence on, 22:10173 (ORNL-TM-2108)
reactions with arylarsonic and arylphosphonic acids, solubility of compounds formed by, 24:2200
reactions with chromium and arsenic, 25:57413
reactions with chromium in presence of acetaldehyde and arsenite, 25:57411
reactions with fluorine, thermodynamics of, 23:17511 (BLG-429)
reactions with hexaamminecobalt(III) ions, properties of complexes produced by, 25:44432
reactions with iron transport system in human blood serum, 22:21416
reactions with nitrogen, 21:41636 (AERE-R-5441)
reactions with nitrogen to prepare nonpyrophoric plutonium nitride, 22:15249(P)
reactions with perchloric acid, formation of brown and red peroxy complexes in, 23:118
reactions with plutonium carbide and ammonia to produce plutonium carbonitride, 22:17165(P)
reactions with proteins in blood serum, 21:24288 (COO-119-235, pp 76-95)
reactions with seawater, effects of complexing anions on, 21:1527 (USNRDL-TR-1050)
reactions with silicon nitrides at high temperatures, effects of free silicon on, 25:35546 (AWRE-O-42-69)
reactions with sodium molybdate in acidic solutions, precipitation of plutonium molybdate by, 24:7427
reactivity effects in EBWR, 21:38523
reactivity in ZEBRA Reactor, 24:22453
reactivity measurements in large uranium carbide fast ZPR-6, 22:32734 (ANL-7310, pp 137-248)
reactivity measurements in ZPR-9 assemblies 11 and 12, 22:32734 (ANL-7310, pp 137-248)
reactivity worth of, measurement in ZPR-3 of, 22:30118 (ANL-7438)
reclamation of, design and operation of facility for, at Richland, Washington, 21:6490 (ISO-SA-14)
recovery from aluminum—plutonium targets, process for, 22:21167
recovery from burnable materials, equipment and method for, 23:35371(P)
recovery from burnable wastes, design of incinerator for, 25:21371
recovery from combustible wastes, design of incinerator facility for, 23:21871
recovery from fibrous insulation and firebrick, 22:12407 (RFP-832)
recovery from fuel processing solutions by precipitation, 22:21776(R) (EURAEC-1937)
recovery from irradiated fuels, potentiometric process monitor for nitrite detections in, 21:17601
recovery from irradiated fuels, projected costs of, 22:44841 (WASH-1082)
recovery from low-enrichment fuels by fluoride volatility, 21:30093(R) (ANL-7317)
recovery from low-enrichment fuels, fluoride volatility process for, 21:42725(R) (ANL-7357)
recovery from low-enrichment oxide fuels by fluoride volatility processes, 21:40694 (ANL-7349, pp 92-109)
recovery from nuclear plant wastes, instrumentation requirements for safeguarding facilities for, 25:21313
recovery from plutonium hexafluorides, effects of presence of fluorine gas on, 22:30118 (ANL-7438)
recovery from reactor fuels, pyrochemical process for, 22:21168
recovery from scrap from Purex Process by continuous incineration or leaching, 23:47580 (ARH-SA-39)
recovery from scrap, operating and handling methods for, 24:427
recovery from scrap, procedures and nuclear materials management in, 23:28939 (ARH-SA-26)
recovery from scrap, use of plastics in plant for, 22:27855 (ISO-SA-22)
recovery from spent fuels, fluoride volatility process development for, 23:38149
recovery from spent reactor fuels, economic aspects of, 23:45497
recovery from unmeasurable wastes by incineration and total laundering, 22:14560 (NUMEC-1661-1)
recovery from wastes, methods for, 21:1541 (ISO-SA-27)
recovery of recycled, cascade dissolver for, 23:40927
recovery of, by alkaline phosphate precipitation from urine containing EDTA or DTPA, 21:14158
recrystallization of α, deformation in, 22:23791
recycle demonstration program for, research progress on, 25:54102(R) (WCAP-4167-1)
recycle development for, analysis of optimum economic, 22:53344
recycle fuels of, demonstration program for pressurized water reactors, 24:18664
recycle in boiling and pressurized water power reactors, design requirements for, 24:33316
recycle in pressurized heavy water power reactor fuels, analysis of optimum economic, 25:60092 (AECL-3910)
recycle in pressurized water reactors, power distribution and depletion calculations for, 25:54103 (WCAP-4167-1, pp 3.1-30)
recycle in thermal reactor fuel, economics of, 24:24849
recycle in thermal reactor fuels, Belgian program on physics aspects of, (E/T), 25:12796 (EURAEC-2145)
recycle in thermal reactor fuels, Belgian program for, 23:37503 (CONF-690609-6)
recycle in thermal reactor fuels, development program for, 24:24852
recycle in thermal reactor fuels, development programs for, 24:24853
recycle in thermal reactor fuels, development program for, 24:24851
recycle in thermal reactor fuels, Dresden I program for, 24:24729
recycle in thermal reactor fuels, effects of uranium supply on, 24:24839
recycle in thermal reactor fuels, fabrication of fuel elements for, 24:24854
recycle in thermal reactor fuels, physics aspects of, 23:17247 (BNWL-SA-2192)
recycle in thermal reactor fuels, technical and economic evaluation of, 24:47725
recycle in thermal reactors, operational aspects of, 25:41444 (CONF-700956-3)
recycle in thermal water cooled reactor fuels, economics of, (T), 25:15375 (CONF-691114-6)
recycle in water cooled power reactors, development in Belgium of program for, 25:54128 (A/CONF.49/P-277)
recycle in water cooled reactor fuels, (E), 25:25986 (RT/FI-(70)48)
recycle in water cooled reactors, economics of, (T), 25:6056
recycle of fuels of, problems in thermal reactors of, 24:18663
recycle of, review on developments in, 25:57202
recycle program for, description of optimum, 22:32896
recycle utilization in water-cooled power reactors, 23:21496
recycling costs of 100 MW(e) sodium cooled fast reactor, effects of composition on, 22:5922 (EURFNR-399)
recycling for use in thermal reactor, economics of, 24:1022
recycling in Garigliano Power Reactor of, procedures for, 23:15595
recycling in heavy water reactors, 21:14118
recycling in pressurized water reactors, nuclear characteristics of, 21:30107 (BNWL-SA-776)
recycling in pressurized-water reactors, 21:7949
recycling in thermal reactor, economic aspects of, 21:17536(R) (EURAEC-1742)
recycling in thermal reactors, 22:10050
recycling of fuels of, calculation for Tarapur Power Reactor at 10000 and 15000 MWD/T of, 24:16096
reduction by alkali carbonates, electrochemical, 23:37963
reduction by hydrogen peroxide in presence of iron, 22:25452 (CEA-N-616, pp 154-214)
reduction by tetravalent uranium, 23:45241 (BARC-375)
reduction by tetravalent uranium in Eurochemic fuel reprocessing, 23:40795(T) (BNWL-tr-35)
reduction by tetravalent uranium in Eurochemic fuel reprocessing, 23:11604 (NP-17741)
reduction by tetravalent uranium in TBP, 22:16682
reduction by uranium(IV) nitrate, 22:45146 (NP-17588)
reduction by uranous nitrate, 23:6148 (NP-17663)
reduction in Purex Process, efficiency of hydroxylamine nitrate for, 25:15721 (DP-1248)
reduction in solutions, electrolytic, 22:10262(P)
reduction in uranyl solutions, electrolytic, 22:10261(P)
reduction of hexavalent to tetravalent, in presence of iron, 21:8222
reduction of hexavalent, by hydrogen peroxide in nitric, perchloric, or sulfuric acids, 22:16479 (CEA-R-3168)
reduction of hexavalent, by hydrogen peroxide in nitric, perchloric, or sulfuric acids, 22:50951(T) (RFP-Trans-47)
reduction of hexavalent, by nitrite in nitrate system, 22:33293 (ARH-SA-12)
reduction of tetravalent and hexavalent, extracted in dibutyl phosphate and TBP with hydrogen peroxide and nitrous acid, effect of acid concentration on, 25:48506
reduction of tetravalent to trivalent, by hydrogen, catalytic, 21:3082(P)
reduction of tetravalent, by copper, lead, or silver, 24:9316
reduction of tetravalent, by hydrazine, platinum—catalyzed, 25:44411 (BNWL-1584)
reduction of tetravalent, by hydroxylamine nitrate, effects of iron on, 25:26206 (ARH-1920)
reduction of tetravalent, by tetravalent uranium in hydrazine-stabilized aqueous phase, emulsion, and organic phase, kinetics of, 23:6092 (NP-17661)
reduction of tetravalent, design of electrolytic cell for, 24:19048 (NP-18167)
reduction of tetravalent, electrolytic cell for direct, 25:6294(T) (ORNL-tr-2407)
reduction of tetravalent, in aqueous or organic solutions with nitrites, 23:35292(P)
reduction of tetravalent, in molten lithium chloride—potassium chloride eutectic, chronopotentiometric study of, 24:36259
reduction of tetravalent, in sodium carbonate solutions, oscillopolarographic and polarographic studies on electrode reaction for, 24:46188
reduction of, in perchloric acid solutions, radiolytic auto-, 21:8395
refining by electrolysis of fused salts, equipment for, 22:38610(P)
release parameters for aerosols of, calculation of maximum, (T), 24:7308
release to environment following unrestricted release within enclosures, model for calculations of hazards from, 25:26782
release to environment following unrestricted release within enclosures, hazards from, 25:26781
removal from animals and man, 22:38194(R) (EUR-3917)
removal from hard surfaces and land areas, feasibility of, 24:29700 (UCRL-50639)
removal from liver and skeleton of rats, effects of DTPA and RES-stimulating drugs on, 23:14152 (BNWL-SA-2205)
removal from man, review of use of DTPA for, 24:2647 (JAERI-4048)
removal from man, use of chelating agents for, 23:24657
removal from personnel, 21:41456
removal from skin, effectiveness of synthetic detergents, EDTA, and sodium hypochlorite for, 25:24143
removal of polymerized, from bone and liver of mice, use of DTPA and EDTA for, 22:28537 (ANL-7278, pp 170-84)

removal using chelating agents, 21:28517 (LA-DC-8433)
reprocessing of irradiated fuels of, improvements in plant capacity for, 24:22723(T) (ANL-Trans-799)
reprocessing of irradiated fuels of, improvements in plant capacity for, 24:11653 (CEA-N-1148, pp 183-271)
reprocessing of reactor fuel elements of, description of safeguard exercise for, 23:40804 (KFK-901)
reprocessing of, development of small-scale alpha facility for, 21:23589(R) (ANL-7308)
requirement for fast breeder reactor fuels of, in the United Kingdom, 23:10196
requirements for fast breeder reactor fuels in the United States, 23:10197
requirements in future central station fast reactor fuel, 23:10195
research facilities for, design and operation of alpha—gamma hot cell, 24:5853
research programs on, abstracts of papers on, 22:35726 (BNWL-672)
research progress on, in Sweden, 23:47480
resources in noncommunist world, 25:6846
retention by alumina beds during processing of irradiated uranium dioxide by bromine pentafluoride—fluorine—oxygen, 21:45192 (ANL-7325, pp 50-98)
retention in dogs, 21:22364(R) (BNWL-235-2)
retention on alumina bed in fluoride volatility process, 22:40150 (ANL-7372)
sampling air and gases for, design of equipment for, 21:36221
sampling of aerosols of, for monitoring in nuclear operations, 25:6685
segregation in mixed-oxide fuels, thermodynamics of, 25:40112
segregation processes in mixed oxide fuels, effects of temperature gradient on, (E/T), 25:8138 (NP-18556)
separation analysis of, in contaminated areas, 22:38298
separation and purification of fission product, from irradiated fuels by ion exchange, 25:48588
separation as plutonyl ions from nitric acid solutions by solvent extraction, relation of structure of amines to effectiveness for, 25:21105
separation by extraction using sodium amalgams, 22:37718 (UCRL-17989, pp 181-252)
separation by fluoride volatility process, design of prototype system for, 23:19825 (CONF-680610-, pp 185-98)
separation by fluoride volatility process, equipment and facility for, 23:11707
separation by solvent extraction using bis(2-ethylhexyl) phosphate, effects of 2-ethylhexyl phosphate and nitrate ions on, 24:11673
separation by solvent extraction using tridodecylamine diluted in dodecane, 24:22723(T) (ANL-Trans-799)
separation by solvent extraction using tridodecylamine diluted in dodecane, 24:11653 (CEA-N-1148, pp 183-271)
separation by solvent extraction, method for, 24:46322
separation from acid solutions by precipitation using quaternary ammonium bases, 24:27219
separation from acid solutions by solvent extraction, evaluation of amines for, 25:21094
separation from acidic solutions by basic precipitation in presence of acetic acid, 22:4266(P)
separation from acidic solutions by solvent extraction using TBP, 25:8338(P)
separation from acidic waste solutions by solvent extraction using tridodecylamine, 21:43045(P)
separation from alkaline chloride salts by ion exchange, 25:37464 (RFP-1642)
separation from alumina fluid-bed material by leaching using nitric acid, 21:45192 (ANL-7325, pp 50-98)
separation from aluminum and iron in nitric acid solutions by solvent extraction using TBP, 24:43954
separation from aluminum—uranium fuel reprocessing solutions by solvent extraction using TBP, 25:32040 (CEA-N-1419, pp 297-330)
separation from americium and curium by ion exchange in zirconium phosphate—nitric acid system, 25:28989
separation from americium and promethium by solvent extraction using tridodecylamine, 22:27848 (CEA-N-816, pp 359-414)
separation from americium by countercurrent exchange, continuous, 25:32048
separation from americium by ion exchange, 21:36101
separation from americium by precipitation using a rare earth carrier, 25:26319(P)
separation from americium by slagging process, 22:8187
separation from americium, design of furnace for molten salt, 24:46394 (RFP-1513)
separation from americium, fission products, and uranium by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 23:403
separation from americium, molten salt method for, 23:9521(P)
separation from americium, neptunium, and thorium in nitric acid by anion exchange, 24:11685
separation from aqueous fuel processing solutions by solvent extraction using tridodecylamine, 25:6396 (CEA-N-1341, pp 363-84)
separation from aqueous fuel processing solutions by solvent extraction using tridodecylamine, 25:26333(T) (ORNL-tr-2410, pp 121-42)
separation from aqueous nitric acid solutions by solvent extraction using tridodecylamine, mechanism of, 24:46321
separation from aqueous Savannah River fuel reprocessing wastes by batch solvent extraction, 25:54739
separation from aqueous solutions as complex with 5-nitro-6-hydroxy-m-toluenesulfonic acid by solvent extraction using tributyl phosphate, 24:9477
separation from aqueous solutions by continuous precipitation as oxalate, 25:26345(P)
separation from aqueous solutions by electrolysis and amalgamation on mercury cathode, 21:43034
separation from aqueous solutions by extraction using triododecylamine and oxalic acid precipitation, 24:5739(P)
separation from aqueous solutions by solvent extraction, 22:2090
separation from aqueous solutions by solvent extraction using alkyl-substituted ammonium salts, 22:6376
separation from aqueous solutions by solvent extraction using TBP, kinetic studies on, 23:19828 (KFK-839)
separation from aqueous solutions by solvent extraction using amines, effects of steric hindrances on, 24:44073
separation from aqueous solutions by solvent extraction using TBP, effects of tetravalent uranium on, 23:378
separation from aqueous solutions by solvent extraction using trialkylamines, coalescence of organic solutions in, 25:2308 (CEA-R-3845)
separation from aqueous solutions by solvent extraction using amines, 21:32183
separation from aqueous solutions by solvent extraction using triisooctylamine, 24:9483
separation from aqueous solutions by solvent extraction, synergism in, 24:9469
separation from aqueous solutions from fuel reprocessing by multistage extraction using tributyl phosphate, 25:41902(P)
separation from aqueous solutions, continuous solvent-extraction process for, 21:34329(P)
separation from aqueous waste concentrate solutions by sorption on bed of activated carbon, 23:40794 (BNWL-1109)
separation from aqueous waste solutions by solvent extraction using tridodecylamine, evaluation of alkylbenzene diluents for, 25:32037 (CEA-N-1419, pp 235-56)
separation from benzene solutions by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 23:403
separation from beryllium sulfate solutions by solvent extraction using amines, 22:30644 (AAEC/E-189)
separation from biological samples by solvent extraction using triisooctylamine, 24:38757
separation from calciothermic reduction slags by nitric acid dissolution, 25:242(P)
separation from carbide and graphite fuels, 24:22738
separation from ceramic fast breeder reactor fuels by salt transport process, 23:2397
separation from cesium and uranium using synthetic inorganic ion exchangers, 21:17719
separation from chloride melts by solvent extraction at 180°C, 22:4255
separation from contaminants in process streams by selective reduction of plutonium hexafluoride, 22:25443 (ANL-7375, pp 46-94)
separation from copper—nickel—plutonium and plutonium—uranium alloys by extraction using molten calcium fluoride—lithium fluoride, 25:237
separation from curium by ion exchange, 22:47152 (BMwF-FBK-68-10)
separation from curium by ion exchange, 23:9442
separation from D2EHPA in diethylbenzene by reduction, compounds for, 23:357 (ORNL-4272, pp 92-128)
separation from dilute organic solutions, process for, 22:10351(P)
separation from dodecane—TBP solvent by hydrogen reduction in presence of platinum catalyst, 23:353 (ORNL-4272, pp 34-55)
separation from dodecane—TBP solvent by partitioning using ferrous nitrate and hydrazine, 23:353 (ORNL-4272, pp 34-55)
separation from EL-1 fuel at Eurochemic, 22:45146 (NP-17588)
separation from environmental samples, procedures for, 24:5583 (EUR-4388)
separation from fast breeder fuels by Purex Process solvent extraction, 25:57518(T) (EURFNR-888)
separation from fast breeder fuels by salt transport, 22:51044 (ANL-7425, pp 19-41)
separation from fast breeder fuels, salt-transport process for, 22:33528
separation from fast breeder reactor fuels by Purex Process, 23:17512(T) (EURFNR-581)
separation from fast breeder reactor fuels, pyrochemical process for, 22:25442 (ANL-7375, pp 19-45)
separation from fast reactor fuels, design of pyrochemical facility for, 25:15817
separation from fast-breeder fuels by compact pyrochemical processes, 21:25935(R) (ANL-7225)
separation from fast-breeder-reactor fuels, 21:45199 (ORNL-4145, pp 29-57)
separation from fission product elements using liquid alloys and molten salts, pyrochemical method for, 21:45191 (ANL-7325, pp 19-49)
separation from fission product oxides by fluorination in fluidized bed, 24:174 (ANL-7575, pp 47-76)
separation from fission product solutions by solvent extraction using dodecane—dedecylamine, 25:32038 (CEA-N-1419, pp 257-69)
separation from fission products and neptunium by ion exchange, 22:6364 (AERE-R-5074)
separation from fission products and uranium, 22:33501
separation from fission products and uranium by ion exchange, 24:260(T) (ANL-Trans-776)
separation from fission products and uranium by ion exchange and fluoride volatility, 22:16695(P)
separation from fission products and uranium by ion exchange, 23:47609
separation from fission products and uranium by salt-transport processes, 22:6383
separation from fission products and uranium by salt transport process, 21:36073(R) (ANL-7350)
separation from fission products and uranium by solvent extraction using TBP, calculations on process for, 23:11598 (CEA-CONF-1130)
separation from fission products and uranium by solvent extraction using TBP in kerosene, 22:25484
separation from fission products and uranium by sorption on sodium fluoride, 23:11608(P)
separation from fission products and uranium in fuel reprocessing by selective dissolution and extraction, 25:23698(P)
separation from fission products and uranium, design of radiometric flow-rate control system for countercurrent, 22:28198(P)
separation from fission products by anion exchange using acetic acid as eluting agent, 23:376
separation from fission products by fluoride volatility process, 22:51045 (ANL-7425, pp 42-93)
separation from fission products by fluorination process, 25:54736
separation from fission products by fluorination, freezing, and sublimation, 23:21789(P)
separation from fission products by liquid metal extraction in molten salts, 22:51044 (ANL-7425, pp 19-41)
separation from fission products by liquid metal—molten salt extraction, mixer-settler for, 24:50439(R) (ANL-7675)
separation from fission products by molten salt—liquid metal extraction, 22:35880 (ANL-7450, pp 7-20)
separation from fission products by oxide slagging, 22:8187
separation from fission products by solvent extraction, pilot plant for, 21:19750
separation from fission products by solvent extraction using tridodecylamine, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation from fission products by solvent extraction using tridodecylamine, 22:25452 (CEA-N-616, pp 154-214)
separation from fission products by solvent extraction using tridodecylamine, 25:6393 (CEA-N-1341, pp 245-315)
separation from fission products by solvent extraction using TBP in dodecane, 22:25452 (CEA-N-616, pp 154-214)
separation from fission products in nitric acid solutions by solvent extraction using trioctylamine, 22:21166
separation from fission products using 18-stage centrifugal mixer-settler, 22:8250 (DP-MS-67-71)
separation from fission products, design of centrifugal contactor for, 22:25590
separation from fission products, design of mixer-settler for, 21:45290(P)
separation from fission products—plutonium dioxide—uranium dioxide fuels by fluorination using bromine pentafluoride or fluorine in fluidized bed, 21:45192 (ANL-7325, pp 50-98)
separation from formic acid by electrodeposition, 25:15748
separation from fuel elements by solvent extraction, criticality problems in Marcoule plant for, 23:7587 (CEA-R-3581)
separation from fuel mateials and plutonium dioxide scrap by pyrochemical methods, 25:18492 (ANL-7709)
separation from fuel mixtures by solvent extraction with phosphoric acid ester—organic amine—hydrocarbon diluent—carboxylic acid derivative, 23:33258(P)
separation from fuel reprocessing solvents by extraction using quaternary alkyl ammonium nitrates, 22:16356 (KR-116)
separation from fuel scrap, fluidized-bed process for, 25:46547(P)
separation from fuel solutions, AT1 process for, 22:25452 (CEA-N-616, pp 154-214)
separation from fuels by fluoride volatility, 21:34076(R) (ANL-7342)
separation from fuels by fluoride volatility, 21:7856(R) (ANL-7255)
separation from fuels by partition chromatography on silica gel, 24:22742
separation from fuels by Purex Process, effects of radiolytic decomposition of TBP on, 23:43384 (KFK-691)
separation from fuels by Purex process, evaluation of centrifugal contactors for, 23:35274
separation from gallium—plutonium alloys by electrorefining, 23:10178(P)
separation from highly irradiated aluminum—plutonium alloy fuels by solvent extraction, 24:14030
separation from highly irradiated aluminum—plutonium targets by solvent extraction using tridodecylamine, 23:49885 (CEA-CONF-1362)
separation from highly irradiated oxide fuel, development of centrifugal extractor for, 23:49882 (CEA-CONF-1359)
separation from human urine by hydrolysis and precipitation using bismuth oxychloride, 24:50446 (CONF-690916-(Vol.2), pp 169-73)
separation from hydrochloric acid by solvent extraction using chloroform—N-phenylbenzohydroxamic acid system, 23:11400 (GAT-525)
separation from hydrochloric acid solutions by solvent extraction using DEHPA, effects of valence state on, 23:49915
separation from impurities by extraction chromatography, 23:2180 (NP-17617)
separation from impurities by fluoride volatility process, 22:48900 (RFP-1052)
separation from impurities by fluoride volatility process, 22:48899 (RFP-993)
separation from incinerator ash, evaluation of methods for, 25:57525 (RFP-1723)
separation from iron, rare earths, transplutonium elements, and uranium by ion exchange on zirconium phosphate silicate, 22:30678
separation from irradiated americium-241 by ion exchange, 23:31400 (EUR-4232)
separation from irradiated carbide fuels in nitric acid by oxidation and solvent extraction, 24:50453(P)
separation from irradiated ceramic fuel by fluoride volatility process, 22:30647 (EURAEC-1694)

separation from irradiated ceramic fuels by pyrochemical process, 23:31401 (EUR-4242)
separation from irradiated fast breeder fuels by salt transport process, 23:38057
separation from irradiated fuel elements, 21:40953 (CONF-670542-, Paper 8)
separation from irradiated fuel elements, 21:30345(R) (IN-1063)
separation from irradiated fuel elements by fluoride volatility process, 21:43015(R) (EURAEC-1909)
separation from irradiated fuel elements by fluoride volatility process, 21:36073(R) (ANL-7350)
separation from irradiated fuel elements by Purex process, 21:40951 (CONF-670542-, Paper 6)
separation from irradiated fuel elements by solvent extraction using tertiary amines or quaternary ammonium compounds, 25:13101(P)
separation from irradiated fuel elements, Aquafluor process for, 21:40947 (CONF-670542-, Paper 2)
separation from irradiated fuel elements, design and operation of Hanford plant for, 21:43023 (RL-SEP-147)
separation from irradiated fuel elements, pyrochemical processes for, 21:36073(R) (ANL-7350)
separation from irradiated fuel, effects of solvent degradation on efficiency of Purex process for, 22:16650(T) (ORNL-tr-1902)
separation from irradiated fuels, 22:37823(T) (ANL-Trans-619)
separation from irradiated fuels, 23:47605
separation from irradiated fuels, 23:49903
separation from irradiated fuels, 22:37640(T) (ANL Trans-628, pp 2-50)
separation from irradiated fuels by electrolysis in molten salts, 22:8175(T) (ANL-Trans-544)
separation from irradiated fuels by fluidized-bed fluoride volatility process, 22:30664
separation from irradiated fuels by fluoride volatility process, 24:22744
separation from irradiated fuels by fluoride volatility process, 24:31437 (ANL-7473)
separation from irradiated fuels by fluoride volatility process, 23:4733(P)
separation from irradiated fuels by fluoride volatility techniques, 23:38051
separation from irradiated fuels by Hanford salt cycle, 21:30499 (HW-SA-3622)
separation from irradiated fuels by ion exchange, 23:47582 (BNWL-SA-1945)
separation from irradiated fuels by liquid metal—molten salt extraction, 23:38041
separation from irradiated fuels by nitrofluor process, 24:22745
separation from irradiated fuels by oxalate precipitation, 22:37823(T) (ANL-Trans-619)
separation from irradiated fuels by Purex Process, 25:26326 (KFK-911)
separation from irradiated fuels by Purex Process, complexation of fission products in, 21:24066 (KR-115)
separation from irradiated fuels by Purex process, fast extractors for use in, 22:16643 (KFK-652)
separation from irradiated fuels by Purex Process, effects of TBP radiolysis on, 24:262(T) (EURFNR-663)
separation from irradiated fuels by pyrometallurgical methods, 24:22747
separation from irradiated fuels by salt-transport process, 22:8187
separation from irradiated fuels by solvent extraction using TBP, 22:51046(T) (EURFNR-499)
separation from irradiated fuels by solvent extraction using TBP, 23:38040
separation from irradiated fuels by solvent extraction using TBP, 22:27857 (KFK-680)
separation from irradiated fuels by solvent extraction, 21:45231(P)
separation from irradiated fuels by solvent extraction using TBP, computer program for estimating distribution coefficients in, 24:11660 (ORNL-TM-2711)
separation from irradiated fuels by solvent extraction using TBP, 24:16627 (UJV-2283-Ch)
separation from irradiated fuels by solvent extraction using tertiary amines, 23:47608
separation from irradiated fuels by solvent extraction using TBP, 24:22740
separation from irradiated fuels by solvent extraction, 22:16356 (KR-116)
separation from irradiated fuels by solvent extraction, 22:8185
separation from irradiated fuels by solvent extraction using TBP, 24:267 (ORNL-4422, pp 48-106)
separation from irradiated fuels by sorption of its hexafluoride by metal fluorides, 22:30665
separation from irradiated fuels by volatility techniques, pilot plant design studies for, 22:150
separation from irradiated fuels in fluidized-bed fluoride volatility process, 23:49910
separation from irradiated fuels in Purex Process, 22:8185
separation from irradiated fuels, electrolytic processes for, 22:6383
separation from irradiated fuels, electronic control of extraction equipment for, 22:8167 (CEA-R-3224)
separation from irradiated fuels, Eurochemic process for, 22:33506
separation from irradiated fuels, hazards evaluation of fluidized-bed volatility pilot plant for, 22:33487 (ORNL-TM-2092)
separation from irradiated fuels, industrial methods for, 23:19846
separation from irradiated fuels, methods development, 21:21755(R) (ANL-7302)
separation from irradiated fuels, performance of centrifugal extractor in, 24:29358 (CEA-CONF-1536)
separation from irradiated fuels, radiation levels following, 22:23084 (BNWL-SA-1644)
separation from irradiated fuels, use of molten chlorides in, 24:22746
separation from irradiated heavy water-moderated organic-cooled reactor fuels, aqueous processes for, 21:30503 (ORNL-4109)
separation from irradiated heavy water-moderated organic-cooled reactor fuels by ion exchange, 21:30503 (ORNL-4109)
separation from irradiated HFIR targets, 21:45203 (ORNL-4145, pp 130-53)
separation from irradiated HFIR targets by Pubex process, 23:24222(R) (ORNL-4376)
separation from irradiated LMFBR fuel by solvent extraction using dibutyl butylphosphonate, 25:54706 (BNWL-SA-3345)
separation from irradiated LMFBR fuels, development of aqueous methods for, 23:21781(R) (ORNL-TM-2552)
separation from irradiated LMFBR fuels, solvent extraction processes for, 25:8316 (BNWL-CC-1939)
separation from irradiated MTR-type fuel by solvent extraction using TBP, 23:47600
separation from irradiated MTR-type fuels, 23:47598
separation from irradiated neptunium-237—aluminum targets, control of radioiodine in, 21:45193 (BNWL 460)
separation from irradiated nuclear fuels, 21:24104(P)
separation from irradiated oxide fuel by fluidized-bed fluorination process, 23:49908
separation from irradiated oxide fuels by chloride volatility methods, 24:11645 (BARC-406)
separation from irradiated oxide fuels by fluoride volatility process, 23:35306(P)
separation from irradiated oxide fuels by fluoride volatility process, 24:9428 (EURAEC-2088)
separation from irradiated oxide fuels by fluoride volatility techniques, 23:38050
separation from irradiated oxide fuels by fluoride volatility process, 23:38049
separation from irradiated oxide fuels, Karlsruhe plant for, 21:45214(T) (ORNL-tr-1768)
separation from irradiated plutonium—uranium fuels by solvent extraction using TBP, 24:16649
separation from irradiated Rapsodie fuels by TBP process, 23:49884 (CEA-CONF-1361)
separation from irradiated reactor fuels, 22:35908(P)
separation from irradiated reactor fuels by solvent extraction using tridodecylamine and direct precipitation, 23:347 (NP-17553)
separation from irradiated reactor fuels in Japan by TBP extraction and ion exchange, 24:33770
separation from irradiated reactor fuels in Japan by TBP extraction and ion exchange, 24:33773
separation from irradiated reactor fuels, chemical principles of aqueous and high-temperature methods for, 24:31460
separation from irradiated reactor fuels, review of methods for, 23:40811
separation from irradiated stainless steel-clad plutonium dioxide—uranium dioxide fuel, 24:267 (ORNL-4422, pp 48-106)
separation from irradiated thorium dioxide—uranium dioxide fuel by chromatography and ion exchange, 22:17185(R) (BAW-3809-1)
separation from irradiated thorium-containing fuels, 24:33761(T) (ORNL-tr-2320)
separation from irradiated uranium, 23:45296
separation from irradiated uranium by amine extraction, 22:40169 (KR-126, pp 201-28)
separation from irradiated uranium by solvent extraction using TBP, 21:28050 (JAERI-1132)
separation from irradiated uranium carbide fuel by pyrochemical techniques, 23:38047
separation from irradiated uranium dioxide fuel, fluid-bed fluoride-volatility process for, 22:51062
separation from irradiated uranium dioxide fuel, fluid-bed fluoride-volatility processes for, 23:17544
separation from irradiated uranium dissolved in sulfuric acid by solvent extraction using triisooctylamine, 23:28967
separation from irradiated uranium or uranium dioxide fuels, 21:39024(P)
separation from irradiated uranium, review on, 22:8199
separation from liquid and solid process wastes, method for, 22:8200
separation from lithium nitrate solutions by solvent extraction using tridodecylmethylammonium nitrate, 24:33762 (RCN-113)
separation from LMFBR fuels by fluoride volatility process, 24:5703 (ANL-7583)
separation from LMFBR fuels by solvent extraction using TBP, 25:54713 (ORNL-4682, pp 39-79)
separation from LMFBR fuels by solvent extraction, centrifugal contactor for, 25:2306(R) (ANL-7735)
separation from LMFBR fuels by solvent extraction, centrifugal contactor for, 25:23641(R) (ANL-7767)
separation from low enrichment fuels, use of fluoride volatility process for, 22:7788(R) (ANL-7382)
separation from mixture of plutonium and uranium hexafluorides by volatility process, 22:37825(T) (ANL-Trans-626, pp 36-58)
separation from molten fluoride mixtures, volatility process for, 22:6432(P)
separation from molten fluoride salts by falling-drop fluorination method, 23:2378 (ORNL-4224)
separation from monobutyl phosphate in TBP solvent extraction process, 22:6433(P)
separation from mother liquor from precipitation of plutonium oxalate, methods for, 22:27845 (CEA-N-816, pp 150-276)
separation from MSBR fuel by extraction using liquid bismuth, 24:16625 (ORNL-4449, pp 214-47)
separation from natural materials, review of various methods for, 22:23103
separation from neodymium and uranium by ion exchange, 22:1949 (GEAP-5354)
separation from neptunium, 24:22681
separation from neptunium, 24:9429(R) (IN-1314)
separation from neptunium and promethium by ion exchange chromatography on zirconium phosphate, 25:57550
separation from neptunium and protactinium by solvent extraction using triisooctylamine, 21:25908
separation from neptunium by ion exchange, 24:11662 (RFP-1415)
separation from neptunium by solvent extraction, 23:13623 (LA-4061)
separation from neptunium by solvent extraction using tridodecylamine, effects of decanoic and nitric acids on, 25:32042 (CEA-N-1419, pp 411-40)
separation from neptunium by solvent extraction using tridodecylamine in decanoic acid, 25:26333(T) (ORNL-tr-2410, pp 121-42)
separation from neptunium by solvent extraction using tetraphenylphosphonium chloride, 23:28966
separation from neptunium by solvent extraction using tridodecylamine in decanoic acid, 25:6396 (CEA-N-1341, pp 363-84)
separation from neptunium by solvent extraction using tridodecylamine followed by nitric acid—sulfuric acid reextraction, 24:36342 (CEA-N-1241, pp 325-53)
separation from neptunium in nitric acid solutions by solvent extraction using tridodecylamine, effects of sulfuric acid on, 24:48159
separation from neptunium in reprocessing solutions by solvent extraction using tridodecylamine, 24:22725(T) (ANL-Trans-801)
separation from neptunium in reprocessing solutions by solvent extraction using tridodecylamine, 24:11656 (CEA-N-1148, pp 335-68)
separation from neptunium oxide by ion exchange, 24:9439 (RFP-1416)
separation from neptunium, review on methods for, 23:26333
separation from neptunium-237 by cation exchange chromatography, 22:27893
separation from neptunium-237, extraction and ion exchange methods for, 22:25455 (CEA-N-616, pp 295-368)
separation from neutron-irradiated americium-241 targets by ion exchange and solvent extraction, 24:33757 (EUR-4409)
separation from neutron-irradiated uranium carbide, 22:33501
separation from niobium, rhodium, ruthenium, and zirconium by anion exchange from mixed methanol—nitric acid solution, 25:29191
separation from niobium-95, ruthenium-106, and zirconium-95 by ion exchange on zirconium phosphate silicate columns, 25:10677
separation from nitrate and perchlorate solutions by solvent extraction using dibutyl phosphate, 21:19747
separation from nitrate fuel reprocessing solutions by solvent extraction using TBP, 25:6400 (ORNL-4618)
separation from nitrate reprocessing wastes by solvent extraction using TBP, 25:211 (DP-1236)
separation from nitrate solution by solvent extraction using 2-ethylhexyl ester of phenylphosphonic acid, effects of zirconium on, 22:48905
separation from nitrate solutions by ion exchange, plugging of resins with silica in, 21:45211 (RFP-1037)
separation from nitrate solutions by solvent extraction using dialkylacetamides, 24:14003
separation from nitrate solutions by solvent extraction using tridodecylamine, 24:46297 (BARC-476)
separation from nitric acid and mixed nitric acid—methanol systems by ion exchange, 25:29194
separation from nitric acid by solvent extraction using TBP in dodecane, 23:353 (ORNL-4272, pp 34-55)
separation from nitric acid by solvent extraction using secondary amines in diethylbenzene, 23:353 (ORNL 4272, pp 34-55)
separation from nitric acid by solvent extraction using TBP, 21:30492 (CEA-R-3206)
separation from nitric acid solution by continuous precipitation and filtration, 25:34680 (CEA-R-4109)
separation from nitric acid solution of radioactive wastes by solvent extraction using tridodecylamine, 24:48158
separation from nitric acid solutions by ion exchange, 23:47609
separation from nitric acid solutions by solvent extraction using tributyl phosphate—tridodecylamine, 24:9471
separation from nitric acid solutions by solvent extraction using phosphonates and phosphinates, 22:16648 (UJV-1312)
separation from nitric acid solutions by solvent extraction using long-chain alkylammonium nitrates, 22:40188 (KR-128)
separation from nitric acid solutions by solvent extraction using tridodecylamine, 22:40154 (CEA-R-3478)
separation from nitric acid solutions by solvent extraction using tridodecylamine, effects of organic diluent on, 24:11658 (CEA-N-1148, pp 395-416)
separation from nitric acid solutions by solvent extraction using quaternary ammonium nitrates in dodecane or o-xylene, effects of octanol on, 24:19081
separation from nitric acid solutions by solvent extraction using TBP, 22:33484(T) (EURFNR-463)
separation from nitric acid solutions by solvent extraction using tridodecylammonium and tridodecylmethylammonium nitrates, 23:24272 (CEA-CONF-1267)
separation from nitric acid solutions by solvent extraction using TBP, effects of nitrous acid on, 25:32042 (CEA-N-1419, pp 411-40)
separation from nitric acid solutions by solvent extraction using tridodecylamine, effects of organic diluent on, 24:22725(T) (ANL-Trans-801)
separation from nitric acid solutions by solvent extraction using hyamine, 22:25236 (CEA-N-616, pp 20-71)
separation from nitric acid solutions by solvent extraction using TBP, thermodynamics of, 25:39594
separation from nitric acid solutions by solvent extraction using long-chain quaternary ammonium nitrates, 23:2385

separation from nitric acid solutions by solvent extraction using TBP, 24:9468
separation from nitric acid solutions by solvent extraction using mono- and bifunctional phosphine oxides, 25:51556 (A/CONF.49/P-443)
separation from nitric acid solutions by solvent extraction using trioctylmethylammonium nitrate, 22:16686
separation from nitric acid solutions by solvent extraction using alkylammonium nitrate—TBP mixture, 23:35312
separation from nitric acid solutions by solvent extraction using TBP, 22:14559 (KFK-671)
separation from nitric acid solutions of irradiated reactor fuels, 21:25968(P)
separation from nitric acid—uranyl nitrate solutions by solvent extraction using TBP in dodecane, 23:13827 (ORNL-4348)
separation from nuclear fuels by solvent extraction using TBP, hydrolysis and radiolysis during, 23:31397 (CEA-CONF-1265)
separation from organic extracts from fuel reprocessing, chromatographic method for, 23:35301(P)
separation from organic solutions of bis(2-ethylhexyl) phosphate by reduction using dialkyl substituted hydroquinones, 25:41912(P)
separation from organic solvents by backwashing using nitrous acid, 22:16689
separation from other actinides and fission products by solvent extraction using nitromethane, 22:33521
separation from other actinides by paper or thin-layer chromatography, 25:57553
separation from other actinides in hydrochloric or nitric acid, paper chromatographic and electrophoretic study of, 22:37832 (CEA-R-3411)
separation from other cations by solvent extraction using TBP, 25:57357
separation from other elements by ion exchange, 25:39411(R) (NBL-258)
separation from other elements by ion exchange using zirconium phosphate ion exchanger, 22:33208(R) (MLM-1456)
separation from other materials by ion exchange, 22:2090
separation from other metals by solvent extraction, 21:39005
separation from other transuranium elements by precipitation with barium sulfate, 23:47396
separation from other transuranium elements, review on methods for, 24:20684 (CEA-Bib-171)
separation from oxide fuel fabrication scraps by solvent extraction using amines, 25:6398 (KFK-893)
separation from perchloric acid solutions by solvent extraction using alkyl phosphine oxides, 22:27893
separation from plutonium dioxide—uranium dioxide systems, 22:22930(R) (NBL-242)
separation from plutonium dioxide—uranium dioxide fuels by solvent extraction using TBP in presence of sulfuric acid, 25:6393 (CEA-N-1341, pp 245-315)
separation from plutonium dioxide—uranium dioxide breeder reactor fuels by selective reduction, 23:13819 (CEA-CONF-1197)
separation from plutonium dioxide—uranium dioxide fuels, by fluid-bed fluoride volatility process, 21:45192 (ANL-7325, pp 50-98)
separation from plutonium dioxide—uranium dioxide fuels, fluid-bed volatility process for, 21:45192 (ANL-7325, pp 50-98)
separation from plutonium dioxide—uranium dioxide fuels by solvent extraction using TBP in presence of sulfuric acid, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation from plutonium nitrate by solvent extraction using TBP/dodecane, 23:18259(R) (PNCT-AR-67)
separation from plutonium—uranium alloys by extraction into molten calcium fluoride—lithium fluoride, 23:38081
separation from plutonium—uranium tetrafluoride mixture by volatilization, 21:17703(R) (EURAEC-1785)
separation from protactinium by paper chromatography in hydrochloric acid mixtures with alcohols, 22:51060
separation from protactinium, transuranium elements, and uranium by gas chromatography using aluminum chloride—inert gas carrier, 24:46294(T) (ANL-Trans-843)
separation from pulverized irradiated fuels by extraction using tertiary alkylamine nitrates, 23:35319(P)
separation from Purex acid sludge solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 22:21154 (BNWL-583)
separation from Purex waste by solvent extraction using dibutyl butylphosphonate, 23:15922 (BNWL-702)
separation from Purex waste, aqueous method for, 23:17545
separation from radioactive fission products at Savannah River Plant, performance of centrifugal mixer—settler for, 24:9566
separation from radioactive waste by sorption in soil, 23:13812 (BNWL-860)
separation from radioactive waste solutions by solvent extraction, PUREX facility for, 21:30523
separation from radioactive wastes, bibliography on, 25:13190 (JAERI-Memo-4153)
separation from Recuplex waste stream by solvent extraction using dibutyl butyl phosphonate, 21:24064 (HW-69910)
separation from reduction residues by nitric acid dissolution, anion exchange, and oxalate precipitation, 21:43565 (RFP-1007)
separation from refractory siliceous materials by grinding and leaching, 23:2405(P)
separation from residual analytical solutions by solvent extraction using tridodecylammonium nitrate, 22:27845 (CEA-N-816, pp 150-276)
separation from residues, fluorination methods for, 23:19819 (CONF-680610-, pp 42-50)
separation from ruthenium, 22:37837(R) (K-1744)
separation from ruthenium by selective fluoride sorption, 23:40814(P)
separation from ruthenium in fluoride volatility process, evaluation of procedures for, 22:35881 (ANL-7450, pp 21-38)
separation from ruthenium in fluoride volatility process, 24:50439(R) (ANL-7675)
separation from ruthenium, use of transpiration technique for, 22:30118 (ANL-7438)
separation from scrap in Plutonium Reclamation Facility by coextraction partition, 24:27182 (ARH-1343)
separation from sea water by solvent extraction using TTA, 22:23086 (ANL-7421)
separation from seawater by sorption on Chelex 100 ion exchanger, 22:33477 (AD-663129)
separation from siliceous materials after volatilization of silicon tetrafluoride, 24:41404(P)
separation from single-fluid MSBR fuels by reductive extraction method, 23:45369 (ORNL-4396, pp 269-301)
separation from slags by fluoride volatilization, 23:15924 (CEA-CONF-1096)
separation from slightly enriched uranium dioxide fuels, extraction cycles for, 22:27845 (CEA-N-816, pp 150-276)
separation from sodium fluoride beds, pyrochemical process for, 22:25442 (ANL-7375, pp 19-45)
separation from soils by leaching with organic solvents, 23:13812 (BNWL-860)
separation from solid wastes in fluoride-volatility process, 21:45200 (ORNL-4145, pp 58-94)
separation from solutions of TBP by extraction with aqueous acid nitrite solutions, 23:35314(P)
separation from solutions, basic precipitation method for continuous, 22:30670(P)
separation from spent ceramic fuels by fluorination and volatilization, 22:25470(T) (ANL-Trans-590)
separation from spent ceramic fuels by salt transport process, 22:40184 (KR-126, pp 476-93)
separation from spent ceramic fuels, pyrochemical processes for, 22:35880 (ANL-7450, pp 7-20)
separation from spent fuel, 23:17506(T) (AEC-tr-7028, pp 131-53)
separation from spent fuel and scrap by solvent extraction using tributyl phosphate or tridodecylamine, 23:47586 (KFK-990)
separation from spent fuel by solvent extraction using TBP/dodecane, 24:48874(R) (NP-18353)
separation from spent fuel elements, evaluation of processes for, 21:30501(R) (K-1717)
separation from spent fuel, development of methods for, 22:27856(R) (K-1738)
separation from spent fuel, use of fluoride volatility process for, 22:12006(R) (ANL-7399)
separation from spent fuels, 25:18517
separation from spent fuels, 22:37837(R) (K-1744)
separation from spent fuels, 23:17504(T) (AEC-tr-7028, pp 14-96)
separation from spent fuels by aquafluor process, 22:40176 (KR-126, pp 361-84)
separation from spent fuels by chloride volatility process, 24:9418 (BARC-397)
separation from spent fuels by fluidized-bed fluoride-volatility techniques, 22:33527
separation from spent fuels by fluoride volatility process, 23:9509(R) (K-1769)
separation from spent fuels by fluoride volatility process, analysis of gases released in, 24:18888
separation from spent fuels by fluoride volatility processes, 21:13946(R) (ANL-7279)
separation from spent fuels by fluoride volatility processes, 21:13947(R) (ANL-7286)
separation from spent fuels by halide volatility process, 22:40174 (KR-126, pp 324-41)
separation from spent fuels by pyrochemical methods, 23:9499(T) (ANL-Trans-702)
separation from spent fuels by pyrometallurgical processes, 22:40182 (KR-126, pp 452-67)
separation from spent fuels by solvent extraction, 22:33507
separation from spent fuels by solvent extraction using tributyl phosphate, electronic control of, 22:23123(P)
separation from spent fuels by solvent extraction and ion exchange in Japan, 25:21141
separation from spent fuels by solvent extraction, criticality and toxicity problems in, 22:48897 (KFK-709)
separation from spent fuels in Eurochemic process, 23:11603 (NP-17740)
separation from spent fuels in Japan, 24:16629
separation from spent fuels or irradiated raw materials by oxidation and solvent extraction, 25:4144(P)
separation from spent fuels, efficiency of dry process for, 22:48898(T) (KFK-tr-249)
separation from spent fuels, laboratory-scale reprocessing tests of, 23:18259(R) (PNCT-AR-67)
separation from spent fuels, nuclear safety evaluation of facility for, 21:40956 (HW-78880)
separation from spent JEEP fuel elements by Purex process, 22:33508
separation from spent LMFBR fuels by solvent extraction, performance of centrifugal contactor in, 25:57507(R) (ANL-7799)
separation from spent LMFBR fuels, development of mixer-settler for, 25:57508 (ANL-7810)
separation from spent low-enrichment power reactor fuels, conceptual study on fluoride volatility plant for, 23:7597 (K-1759)
separation from spent oxide fuels by fluoride volatility techniques, 22:35881 (ANL-7450, pp 21-38)
separation from spent oxide fuels by fluoride volatility process, 21:25935(R) (ANL-7225)
separation from spent reactor fuels with high plutonium content, 23:2368(T) (EURFNR-526)
separation from spent uranium dioxide fuel by fluidized-bed fluoride volatility process, 23:21779 (ORNL-TM-2170)
separation from spent uranium oxide (UO_2) fuel, safety analysis of plant design for Aquafluor Process for, 23:9505 (DOCKET-50268-1)
separation from sulfuric acid solutions containing uranium by solvent extraction using amines, 22:45161(P)
separation from TBP phase, optimum conditions for, 23:45241 (BARC-375)
separation from TBP solutions by citrate stripping, 23:13809 (ARH-SA-20)
separation from tertiary amines by solvent extraction using ferrous sulfamate, 24:38998 (RT/CHI-(69)19)
separation from thorium and uranium by precipitation, 23:28988(P)
separation from thorium by ion exchange, 22:23103
separation from thorium by paper chromatography in nitric acid mixtures with alcohols, 22:51060
separation from thorium in acidic media by solvent extraction using N-phenylbenzohydroxamic acid, 22:33332
separation from transplutonium elements and zirconium by solvent extraction using DEHPA, 23:49915
separation from transplutonium elements by ion exchange in hydrochloric acid, 23:17537
separation from transplutonium elements by thin-layer chromatography using as solvent a tributyl phosphate—benzene mixture, 22:37851
separation from transuranium elements by gas chromatography of chlorides, 24:33777
separation from transuranium elements by solvent extraction using D2EHPA in diethylbenzene, 23:357 (ORNL-4272, pp 92-128)
separation from transuranium elements by solvent extraction, 24:20792(R) (ORNL-4447)
separation from tributyl phosphate or tridodecylamine solutions from solvent extraction process, 22:37872(P)
separation from tridodecylamine by precipitation using hydrofluoric acid or oxalic acid, 25:6393 (CEA-N-1341, pp 245-315)
separation from tridodecylamine by precipitation using hydrofluoric acid or oxalic acid, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation from tridodecylamine by solvent extraction using nitric oxide, 22:25452 (CEA-N-616, pp 154-214)
separation from tridodecylamine by solvent extraction using nitric acid—sulfuric acid solution, 22:27845 (CEA-N-816, pp 150-276)
separation from tridodecylamine nitrate by solvent extraction using formic acid, 24:33778
separation from undissolved uranium fuels by solvent extraction, 22:45162(P)
separation from uranium, 23:38040
separation from uranium, 23:9511(R) (MLM-1520)
separation from uranium and fission products by ion exchange, 24:22743
separation from uranium and fission products by multistep, gradient concentration method, 22:6431(P)
separation from uranium and fission products in aqueous solution by solvent extraction using TBP, 23:35321(P)
separation from uranium and fission products in fuel reprocessing by solvent extraction, 22:14577(P)
separation from uranium and fission products, molten salt pyrometallurgical process for, 21:28075(P)
separation from uranium and from other transuranium elements by precipitation with barium sulfate, 23:28986
separation from uranium and irradiated fuels by fluoride volatility process, 24:39029(P)
separation from uranium and other metal impurities by salt transport process, 23:38058
separation from uranium and plutonium carbides, nitrides, and oxides, 23:13839
separation from uranium and zirconium by solvent extraction using TBP, effects of aluminum nitrate, nitric acid, and sodium tartrate concentrations on, 22:6409
separation from uranium as hexafluoride, 25:34698 (UJV-2291-Ch)
separation from uranium by chlorine monofluoride volatility process, 23:15958(P)
separation from uranium by countercurrent ionophoresis, continuous, 25:41908
separation from uranium by extraction chromatography, 23:24103 (NP-17816)
separation from uranium by extraction chromatography using TBP, 24:29365
separation from uranium by extraction using tridodecylamine, 23:19814 (BARC-374)
separation from uranium by fluid-bed fluoride volatility process, 22:6365 (ANL-7362)
separation from uranium by fluoride volatility process, 22:8175(T) (ANL-Trans-544)
separation from uranium by fluoride volatility process, 23:33257(P)
separation from uranium by fluoride volatility process, 23:35265(P)
separation from uranium by fluoride volatility process, 22:6384
separation from uranium by fractional sublimation of chlorides, 23:15954
separation from uranium by ion exchange, 21:28047 (AERE-R-5350)
separation from uranium by ion exchange, 22:12427
separation from uranium by oxalate precipitation, 22:33208(R) (MLM-1456)
separation from uranium by oxalate precipitation, 22:42019(R) (MLM-1494)
separation from uranium by oxalate precipitation, solvent extraction, and ion exchange, 23:15929(R) (MLM-1526)
separation from uranium by partition chromatography using tridodecylamine, 23:24283
separation from uranium by partitioning using uranous nitrate and solvent extraction using TBP, 24:11647 (BARC-430)

separation from uranium by Purex process using tetravalent uranium ions for reduction, 23:40796(T) (BNWL-tr-36)
separation from uranium by Purex Process, mixer-settler studies on flow diagram for, 23:28942(T) (BNWL-tr-28)
separation from uranium by selective reduction of plutonium hexafluoride, 22:27847 (CEA-N-816, pp 324-58)
separation from uranium by solvent extraction, 21:40990(P)
separation from uranium by solvent extraction, 23:47605
separation from uranium by solvent extraction, 22:18738(R) (MLM-1417)
separation from uranium by solvent extraction, 22:45146 (NP-17588)
separation from uranium by solvent extraction using amines and TBP, 22:16687
separation from uranium by solvent extraction using di-sec-butyl ester of phenylphosphonic acid, 21:36076 (BNWL-440)
separation from uranium by solvent extraction using TBP, 22:21176(P)
separation from uranium by solvent extraction using amines and quaternary ammonium compounds, 22:16687
separation from uranium by TBP extraction, use of tetravalent uranium ions as reductant in, 22:16682
separation from uranium by TBP extraction, use of uranium(IV) nitrate in, 22:16680
separation from uranium by volatilization, 22:27852(R) (EURAEC-2011)
separation from uranium dioxide fuel pellets, fluid-bed fluoride volatility process for, 22:25443 (ANL-7375, pp 46-94)
separation from uranium during Purex process, effects of hydrazine-stabilized uranium(IV) reductant on, 24:39014
separation from uranium in acidic solutions from reactor fuel reprocessing, selective solvent extraction process for, 25:26346(P)
separation from uranium in fuel fabrication scrap, reflux extraction flowsheet using TBP for, 25:41888 (ARH-SA-78)
separation from uranium in fuel reprocessing, 23:13809 (ARH-SA-20)
separation from uranium in fuel reprocessing by electrolytic reduction, 24:19048 (NP-18167)
separation from uranium in fuel reprocessing, fused salt method for, 25:21149(P)
separation from uranium in fuel reprocessing, solvent extraction and reduction method for, 23:35292(P)
separation from uranium in nitric acid using iodic acid, 21:19536 (KFK-503)
separation from uranium in Purex Process, 25:44411 (BNWL-1584)
separation from uranium in Purex Process, electrolytic, 24:36369
separation from uranium in Purex Process, ferrous nitrate as plutonium reductant in, 23:24277 (ORNL-4383)
separation from uranium in Purex process, reduction of plutonium ions for, 23:379
separation from uranium in reactor fuels by fluorination using chlorine fluoride and volatilization, 24:39030(P)
separation from uranium in reprocessing of reactor fuel elements by extraction using quaternary ammonium nitrates, 25:239(P)
separation from uranium in reprocessing reactor fuels of high plutonium content, 22:51082
separation from uranium in spent reactor fuels by fluoride volatility process, 23:15948(P)
separation from uranium in TBP by sorption on silica gel, 22:149
separation from uranium in TBP extraction process, oxidation and complexing processes for, 22:40168 (KR-126, pp 172-200)
separation from uranium in TBP solutions by solvent extraction, 21:25969(P)
separation from uranium isotopes by precipitation using hypophosphorous acid, 23:15962
separation from uranium oxide fuels, 22:47222
separation from uranium solutions from fuel reprocessing by contact with damp actinide or lanthanide fluorides, 25:37489(P)
separation from uranium using EDTA, 22:25440(R) (MLM-1443)
separation from uranium, development of solvent extraction processes for, 21:2864(R) (KR-109)
separation from uranium, efficiency of methods for, 22:23103
separation from uranium, extraction and oxidation method for, 22:25452 (CEA-N-616, pp 154-214)
separation from uranium, rate of reactions of nitrous acid with hydrazine or sulfamic acid in nitric acid for control in, 22:40061
separation from uranium, salt-transport step for, 22:151
separation from uranium, use of tetravalent uranium ions as process reductant in, 22:16681
separation from uranium—plutonium fuels, 22:6382
separation from waste material by fluoride volatility process, 22:6369 (RFP-1048)
separation from waste solutions, 23:41609
separation from waste solutions by contact with hydrated titanium oxide, 22:4265(P)
separation from waste solutions by solvent extraction using tridodecylamine, effects of diluent on, 23:40787(T) (AEC-tr-7076, pp 20-72)
separation from wastes by ion exchange, 23:38075
separation from wastes, development and evaluation of methods for, 23:24276 (LA-3542)
separation from weapons production process residues by fluidized-bed fluoride volatility process, 23:19821 (CONF-680610-, pp 79-98)
separation from Zirflex-type waste solutions by peroxide precipitation, 21:24100(P)
separation from ZPPR unmeasurable wastes, 23:21778(R) (NUMEC-1661-3)
separation from ZPPR unmeasurable wastes, 22:47203(R) (NUMEC-1661-2)
separation of, 23:24073
separation of americium and curium from irradiated, by solvent extraction, 22:149
separation of americium and curium from, by solvent extraction using tridodecylamine or TBP, coefficients for, 24:36342 (CEA-N-1241, pp 325-53)
separation of americium and curium from, using chelating resins, 25:46549
separation of americium from, by extraction using molten chlorides, 23:38044
separation of americium from, by ion exchange, 25:51395
separation of americium from, by molten salt process, 23:40845(P)
separation of americium from, by solvent extraction using TBP in dodecane, 24:11656 (CEA-N-1148, pp 335-68)
separation of americium from, by solvent extraction using TBP in dodecane, 24:22725(T) (ANL-Trans-801)
separation of americium, californium, and curium from irradiated targets of, by solvent extraction, 24:31341 (DP-1146)
separation of americium, californium, and curium from, hot cell for, 22:49060
separation of americium-241 from fuels of, by ion exchange and solvent extraction, 23:38032
separation of americium-241 from, review on methods for, 24:41416
separation of berkelium from, by sorption on zirconium phosphate—silicate, 25:57530
separation of cadmium from, method for, 24:2099 (IN-1316, pp 36-40)
separation of first 100 g of, from irradiated fuels in Japan, extraction facilities for, 25:21144
separation of fission products from, use of complexing agents and molecular series for, 21:10440(P)
separation of impurities from, by ion exchange, 24:4371
separation of iron from, by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 23:15932
separation of irradiated neptunium from, by nitric acid dissolution and solvent extraction using tridodecylamine, 23:40789(T) (AEC-tr-7076, pp 108-29)
separation of large quantities of, simultaneously with other elements, from nitric acid solutions, calculation of number of theoretical extraction stages for, 25:39595
separation of macro and tracer amounts of, from other ions by ion exchange in nitric acid—tetrahydrofuran containing dithizone, 23:4736
separation of micro amounts of chloride from solutions of, by distillation, 21:3152
separation of neptunium from fission products mixtures of, by solvent extraction using tridodecylamine and ion exchange, 22:27848 (CEA-N-816, pp 359-414)
separation of neptunium from, by anion exchange, 23:40789(T) (AEC-tr-7076, pp 108-29)
separation of neptunium from, by ion exchange and solvent extraction, 24:18900 (KFK-1115)
separation of neptunium from, by ion exchange and solvent extraction, 24:36164(T) (EURFNR-730)
separation of neptunium from, by ion exchange in tetramethylammonium hydroxide—citrate solutions, effects of complexing agents on, 25:10655 (ANL-7751)
separation of neptunium from, by partition chromatography using tridodecylamine, 23:24282
separation of neptunium from, by reduction and solvent extraction using tridodecylamine, 24:11654 (CEA-N-1148, pp 273-96)
separation of neptunium from, by reversed phase chromatography in nitric acid—tridodecylamine, 22:2171 (CEA-R-3245)
separation of neptunium from, by solvent extraction using tridodecylamine, 24:36340 (CEA-N-1241, pp 255-89)
separation of neptunium from, by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 23:13846
separation of neptunium from, in hydrochloric acid by solvent extraction using chlorobenzene—dodecane—tridodecylamine, 24:36342 (CEA-N-1241, pp 325-53)
separation of neptunium from, in presence of uranium in reactor fuels, solvent extraction method for, 23:19850(P)
separation of neptunium-237 from, by solvent extraction using tridodecylammonium chloride, 22:27848 (CEA-N-816, pp 359-414)
separation of neptunium-239 from, in fallout samples by solvent extraction using TTA, 24:14015
separation of tetravalent, from aqueous nitrate or nitric acid by solvent extraction using TBP in dodecane, transfer mechanisms in, 24:11675
separation of tetravalent, from hexavalent uranium by solvent extraction using dodecane—TBP, 25:32040 (CEA-N-1419, pp 297-330)
separation of tetravalent, from nitric acid by solvent extraction using TBP, 24:11648 (BARC-432)
separation of thorium from, by solvent extraction, 24:5648(R) (MLM-1606)
separation of trace amounts of, from magnesium, method for, 22:27530 (CEA-N-816, pp 9-65)
separation of trace amounts of, from platinum by precipitation with ferric ion and ion exchange, 21:34317 (LA-3149)
separation of trace amounts of, from uranium in acetic acid by electrophoresis, 21:39006
separation of traces of, from graphite, design of shaft furnace for, 22:27732(P)
separation of transuranium elements from, evaluation of TRU flowsheets, equipment, and procedures for, 22:23101 (ORNL-TM-1938)
separation of trivalent, from aqueous nitric acid solutions by extraction chromatography using TBP, 25:218 (NP-18398)
separation of unburned, from spent aluminum—plutonium fuels by solvent extraction using TBP, effects of nitric acid on, 23:40787(T) (AEC-tr-7076, pp 20-72)
separation of uranium from, extraction equipment and plant for, 23:2381 (RT/CHI-(68)11)
separation of uranium-237 from hydrochloric acid solutions of, by solvent extraction using tridodecylammonium chloride, 22:27848 (CEA-N-816, pp 359-414)
separation of various valence forms of, by paper or thin-layer chromatography, 25:57553
separation of various valence states of, by precipitation with iron and zirconium hydroxides, 24:197
separation of, from acid solutions by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 21:1440
separation of, from berkelium by solvent extraction using 2-thenoyltrifluoroacetone—xylene, 21:2951
separation of, from fission products and irradiated uranium in Purex Process, method for, 21:14282 (AEET-265)
separation of, from fission products in oxide fuels, fluoride volatility process for, 21:4591 (ANL-7125, pp 61-106)
separation of, from fission products, liquid metal-molten salt transport processes for, 21:4590 (ANL-7125, pp 21-60)
separation of, from hydrochloric, nitric, and perchloric acids by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 21:12358
separation of, from impurities by ion exchange, 21:12499 (LA-3499)
separation of, from irradiated fuel elements, use of neutron detectors in control of continuous solvent extraction process for, 21:3143 (ISO-SA-28)
separation of, from irradiated fuels by solvent extraction using TBP and alkylamines, 21:6008
separation of, from irradiated fuels by sorption by lithium fluoride in fluoride volatility process, 21:4595 (ORNL-P-2731)
separation of, from neptunium, 21:10405 (ORNL-4023)
separation of, from neptunium by cation exchange in hydrobromic acid solutions, 21:8427
separation of, from nitrate by ion exchange, computer optimization of equipment for, 21:15990
separation of, from nitrate solutions by sorption on Dowex 1x4, kinetics of, 21:15990
separation of, from nitric acid by solvent extraction using butyl hypophosphate and butyl pyrophosphate, 21:15986
separation of, from nitric acid solutions by solvent extraction using butyl phosphates and trihexylphosphine oxide, 21:1441
separation of, from plutonium dioxide—uranium dioxide fuels by fluid-bed fluoride volatility process, 21:4591 (ANL-7125, pp 61-106)
separation of, from plutonium—uranium alloys by molten salt extraction, 21:12505
separation of, from residues by dissolution in calcium fluoride—nitric acid solvent, 21:5997 (RFP-776)
separation of, from silicon by distillation, 21:5753 (LA-3559)
separation of, from slag and crucible scrap, continuous dissolver for, 21:3144 (ISO-SA-29)
separation of, from spent fuels, commercial plant for, 21:15978
separation of, from spent reactor fuels, 21:10416(R) (K-1691)
separation of, from uranium and fission products by chloride-volatility process, 21:15992(P)
separation of, from uranium by extraction using molten magnesium alloy, 21:167(P)
separation of, from uranium, fluid-bed fluoride volatility process for, 21:3164(P)
separation of, from urine, ion-exchange, 21:12277 (CONF-651008-, pp 1-19)
separation of, from waste solutions by solvent extraction using tridodecylamine, 21:17718
separation of, methods for, 22:23114
separation of, survey on methods for, 21:24098
shipping container for, design of, 23:21930
shipping of reactor fuels of, development of containers for, 23:584 (CONF-681001-, pp 569-83)
shipping of, design of BNW Model 10 container for, 25:29318
shipping of, permit modifications for BNW Model 10 container for, 25:6516 (BNWL-CC-1546(Rev.2))
shipping of, radiation dose calculations for, 21:8801 (RFP-795)
shipping of, safety and technology of maritime, 24:22940
shipping of, testing of insulated containers for, 25:39672 (RFP-1696)
sintering equipment design for, 23:18200
solubility in alpha-phase uranium at 565°C, 22:49710 (CEA-R-3439)
solubility in aluminum, 22:41051
solubility in aluminum at 550 to 630°C, 25:29867
solubility in dilute nitric acid, effects of hydrofluoric acid and temperature on, 25:2153
solubility in hydrochloric acid, thermodynamics of, 22:4147
solubility in iron, analysis of, 22:48790
solubility in liquid cadmium—copper—magnesium—zinc alloys and fused salts, 23:38058
solubility in liquid copper—magnesium alloys, 21:25935(R) (ANL-7225)
solubility in liquid magnesium—zinc alloys, 24:258 (ANL-7575, pp 19-46)
solubility in liquid ternary alloys, method for estimating, 23:38976
solubility in magnesium—zinc alloys at 600 to 800°C, 22:25442 (ANL-7375, pp 19-45)
solubility in MSBR solvent salt, 25:15625 (ORNL-4622, pp 60-118)
solubility in nickel, 23:8181

solubility in soil—water environments, theoretical studies of, 25:54756 (CONF-710401-, pp 411-29)
solubility in zinc and zinc—magnesium alloys, 22:24925(R) (ANL-7427)
solubility of, in α-iron at 850 and 880°C, 22:10989
solubility of, in sea water, electrochromatography studies on, 21:5849 (USNRDL-TRC-85)
solvent properties for chromium, 22:19516 (LA-3850)
solvent properties for chromium, manganese, molybdenum, niobium, thulium, titanium, vanadium, and zirconium, 22:38555
solvent properties for chromium, molybdenum, niobium, tantalum, tungsten, and vanadium, thermodynamic studies on, 24:11535
solvent properties for eleven metals at 700 to 1000°C, 23:38977
solvent properties for manganese and titanium, 23:13690 (LA-3995)
solvent properties for selected metals at 700 to 1000°C, thermodynamics of, 22:40053 (LA-3951)
solvent properties for yttrium at 700 to 900°C, 24:29973 (LA-4354)
solvent properties of liquid, for carbon at 700 to 1000°C, 25:16440 (LA-4559)
solvent properties of liquid, for lanthanum at 700 to 825°C, 24:2169 (LA-4282)
solvent properties of liquid, for niobium, tantalum, and vanadium, 21:36837
solvent properties of liquid, for thulium at 700 to 1000°C, 25:16440 (LA-4559)
solvent properties of liquid, for transition metals at 700 to 1000°C, 25:16440 (LA-4559)
solvent properties of liquid, for zirconium at 700 to 950°C, 21:41576 (LA-3742)
solvent properties of, for carbon, rhenium, tantalum, and tungsten at 700 to 950°C, 21:9177
solvent properties of, for niobium at 700 to 950°C, 21:15796
solvent properties of, for thulium at 700 to 1000°C, 21:11215 (LA-3623)
solvent properties of, for vanadium at 700 to 1000 deg C, 21:4931 (LA-3594)
sorption by fluidized bed in fluoride volatility process, effects of process variables on, 23:49910
sorption by sulfonic acid-type cation exchange resins, 21:40960 (MLM-1412)
sorption by uranium dioxide gel, 22:2016(R) (BAW-3714-4)
sorption from gastrointestinal tract of miniature swine, 22:45406
sorption of tetravalent, by silica surfaces, autoradiographic studies on, 24:13830
sorption of tetravalent, on gold, platinum, poly(vinyl chloride), and stainless steel in nitric acid solutions, 25:39517(T) (MLM-1820(TR))
sorption through skin of rats, effects of dimethyl sulfoxide as solvent on, 24:50693
sorptive properties for gases, computer program for calculating, 23:21682 (RFP-1317)
sorptive properties of clean surfaces of, for carbon monoxide, hydrogen, nitrogen, and oxygen, 25:37948 (RFP-1456)
sorptive properties of vapor deposited films of, for ethane, ethylene, and methane molecules, 24:36898 (RFP-1457)
spectra in calcium fluoride crystals, effects of plutonium decay on, (E), 22:20055
spectra in calcium fluoride single crystals, 22:30543
spectra in californium fluoride, optical, 21:29969(R) (UCRL-17299)
spectra in nitric acid and TBP, effects of oxidation state on, 25:23583 (KFK-1306)
spectra of heptavalent, in alkaline solutions, absorption, 24:210
spectra of hexavalent, in dilute sodium carbonate solutions, absorption, 25:57403
spectra of inner atomic levels in, x-ray photoelectron, 23:49770 (UCRL-18667, pp 247-54)
spectra of pentavalent, electronic, 24:38877
spectra of trivalent, in lithium chloride and lithium bromide solutions, absorption, 21:4520
spectra of trivalent, in molten fluorides, 25:15625 (ORNL-4622, pp 60-118)
spectra of, bibliography on analyses of optical, 24:30142 (NBS-SPEC. PUBL-306-4)
spectra of, effects of valence state on, 23:26222(T) (UCRL-Trans-10343)
spectra of, electric field splitting of inner atomic levels observed from photoelectron and internal-conversion, (E), 22:52541
spectra of, emission, 22:2018(R) (BMwF-FBK-67-76)
spectra of, K x-ray, (E), 24:35167
spectra of, relative isotopic shift in arc, (E), 22:17347
spectral lines in 73 Dra, search for, (T), 24:42351
stability of heptavalent, in alkaline solutions, effects of cations on, 24:38849
stability of heptavalent, in aqueous solutions, 25:21083(R) (MLM-1767)
stockpiling for use in fast reactor fuels, economics of, (T), 25:23301
storage behavior of, review of effects of corrosion, pyrophoricity, and radiation properties on, 25:24566
storage of ingots of, neutron multiplication measurements for multiple configurations of partially moderated and reflected 55 gallon drums for, 23:9683 (RFP-1242)
storage of metallic buttons of, GEM III Monte Carlo code for calculation of safe array for, 24:7607 (ARH-SA-48)
storage of metallic buttons of, GEM III Monte Carlo code for calculation of safe array for, 24:5859
storage of, design of safe shielded facility for, 25:54942 (CONF-710401-, pp 56-67)
storage of, standards for, 24:44225 (CEA-N-1291)
structure of samples containing, x-ray diffraction studies of, 22:27622 (EUR-3897)
supply-and-demand of, forecast of world-wide, 22:48693
tensile properties of β, relations with strain hardening of, 22:23794
thermal analysis of refractory compounds of, optical pyrometry equipment for differential, 23:35546 (LA-4103)
thermal capacity at 13 to 300°K, 24:36919
thermal capacity of all allotropes at 60 to 731°C, 21:36863(R) (MLM-1347)
thermal capacity of allotropes and electrorefined, 22:2612(R) (MLM-1402)
thermal capacity of alpha-phase, comparison with values for α-manganese, 22:19529
thermal capacity of delta', 21:22888(R) (MLM-1346)
thermal capacity of delta and epsilon phases of, to 800°C, 21:13143(R) (MLM-1328)
thermal capacity of delta, delta', and epsilon phases of, 21:32885
thermal capacity of, anomaly in, 25:6866
thermal conductivity at 400 to 800°C, 25:11383
thermal conductivity at 80, 195, and 300°K, 21:34905
thermal conductivity of α-, at 300°K, 25:35424
thermal conductivity of high-purity, at 4 to 90°K, 25:11382
thermal expansion coefficients for, dilatometry measurement of, 24:42099 (UCRL-72223)
thermochemistry of, 21:25935(R) (ANL-7225)
thermochemistry of compounds of, 21:25935(R) (ANL-7225)
thermodynamic functions of, at 100 to 6000°K, ideal-gas, 21:14197
thermodynamic properties at low temperatures, review of, 25:11384
thermodynamic properties determination from vaporization analysis, 22:6138(R) (LA-3820)
thermodynamic properties of, 21:25831
thermodynamic properties of, 24:20767
thermodynamic properties of aqueous trivalent, 21:17603(R) (COO-347-28)
thermodynamic properties of bcc and fcc phases of, prediction of effects of elements on, 25:11392
thermodynamic properties of trivalent, in aqueous solutions, 24:26631(R) (COO-1716-8)
toxic effects of, on swine skin, 21:1834
toxicity in animals, chelate-therapy for, 21:22772
toxicity in fuel reprocessing plants, 23:28968
toxicity of ingested, in swine, 21:1834
transformations in electrorefined, allotropic, 21:13143(R) (MLM-1328)
translocation from puncture wounds in dogs, 25:44840(R) (COO-1787-12)
transport from irradiated plutonium-base fuel to sodium, spectral studies on, 21:26876(R) (LA-3686)
transport of breeder fuels of, economics of, 24:9629
ultrasonic attenuation at low temperatures, as evidence for cooperative electron transition, 22:44233
uptake and binding to proteins in bones, 25:37719 (EUR-4612, pp 187-204)
uptake by human lungs, model for urinary excretion following, 23:45632
uptake by man after accidental exposure, 21:36564 (BNWL-SA-962)
uptake by man, ICRP standards for maximum permissible, 24:7863
use as α source in ionization pressure gage, 21:24152(P)
use as fast and thermal fuel, safety aspects of recycle, 22:53386
use as fast reactor fuel, 25:34203
use as fuel for water-cooled power reactors, economics of, 22:6037
use as fuel in fast and thermal reactors, 23:40373
use as fuel in fast breeder and water cooled reactor, 23:2130 (BNWL-SA-2065)
use as fuel in reactors, 22:10075(R) (EURAEC-1929)
use as fuel in thorium thermal converters, economic value of, 24:11142
use as fuel, comparison of uranium and, 22:14289 (BNWL-635)
use as nuclear fuel, CNEN programs and facilities for development of, 23:24820
use as power reactor fuel, investigation of, 22:25007
use as reactor fuel, potential for, 22:606 (CONF-661011, pp 8-10)
use for fast breeder reactor fuel, evaluation of requirements for, 22:7804 (EURFNR-422)
use for fuel in fast and thermal reactors, 22:10010(R) (NP-17126)
use for power reactor fuel, development program for, 22:20778(R) (BNWL-624)
use for thermal reactor fuel, Phoenix program for, (E/T), 22:27459 (BNWL-634, pp 3.1-27)
use in BWR fuel elements, evaluation of, 22:6021
use in European reactors, 22:5931(R) (NP-17110)
use in integrated generating systems of fast breeder and thermal reactors, economics of, 24:11137
use in power industry, analysis of optimum, 24:36857 (EUR-4474)
use in pressurized water reactor fuels, (E/T), 24:52916(R) (WCAP-3385-24)
use in pressurized water reactor fuels, (E/T), 25:10213(R) (WCAP-3385-25)
use in pressurized-water reactor fuel elements, 22:6022
use in reactors, economics of, 24:9083
use in thermal reactor cores, physics of, (E/T), 24:16169
use in thermal reactors of fuels of, 24:1998 (EUR-4238)
use in water-cooled thermal power reactor fuels, review of physics data for, 22:37407 (BNWL-801)
use in water-cooled thermal reactor fuel, feasibility of, 23:4215(T) (AEC-tr-6946)
uses as fuel in reactors, Euratom program on, 24:39690 (EURAEC-2115)
uses for reactor fuels of, description of, 22:30200
uses in Italian nuclear energy program, 25:45033
utilization for boiling water reactors, 21:30149 (JAERI-1123)
utilization for fast and thermal reactors, effects of composition on economics of, 21:44870
utilization for fast power reactors, economics of, 21:2846
utilization for light water reactors, 21:19347 (BNWL-SA-926)
utilization for power reactor, projection to year 2010, 21:42771
utilization for thermal reactors, 21:7984
utilization in boiling water reactor fuels, technical and economic factors in, 24:24840
utilization in high temperature gas cooled reactors, economics of, 24:40996 (DP-Report-265)
utilization in high temperature gas cooled reactors, cycle optimization for, 24:46063 (DP-Report-335)
utilization in power reactors, effects on fuel cycle economics in Japan, 24:31075
utilization in power reactors, effects on long-term fuel cycle economics of, 24:29022
utilization in pressurized water reactor fuels, (E/T), 25:25987(R) (WCAP-3385-26)
utilization in pressurized water reactor fuels, (E/T), 24:26777(R) (WCAP-3385-22)
utilization in pressurized water reactor fuels, (E/T), 24:36033(R) (WCAP-3385-23)
utilization in pressurized water reactor fuels, (E/T), 25:48264(R) (WCAP-3385-27)
utilization in pressurized water reactor fuels, (E/T), 25:54101(R) (WCAP-3385-28)
utilization in reactor, industrial processing and fabrication program for, 24:17224 (CONF-681219-3)
utilization in thermal and fast reactor fuels, physics and economics of, 25:54126 (A/CONF.49/P-185)
utilization in thermal reactor fuels, projections of, 25:60249
utilization in U.K. power reactor fuels, economics of, 24:24850
utilization in water cooled power reactor fuels, review of program for, 25:46263 (BNWL-SA-3865)
utilization in water cooled reactors, technical and economic studies on, 25:39266 (A/CONF.49/P-71)
valence state in carbonate solutions, oscillopolarographic and polarographic studies on, 24:46188
value in nuclear power plants, effects on utility system costs of, (T), 25:12724 (TRG-Report-2090)
vapor pressure at 1426 to 1658°K, mass spectrometric-Knudsen effusion study of, 24:19451
vapor pressure of, 22:37713 (LA-3902)
vaporization of, mass-spectrometric studies of enthalpy of, 22:37713 (LA-3902)
viscosity of, 22:28796
viscosity of liquid, 21:17607 (NYO-2082-9)
voltammetric behavior of hexavalent/pentavalent, 25:31794 (RT/CHI-(70)44)
whole-body counting in dogs, 21:22364(R) (BNWL-235-2)
x radiation from, calibration procedure for thallium-activated sodium iodide scintillation detectors for detection of, 23:24434 (UCRL-50007-68-2, pp 24-31)
x-ray attenuation-coefficient measurements in, at 25 to 130 keV, 21:13388
x-ray counting of, isotopic composition effects on, 22:47313 (BNWL-715(Pt.1), pp 29-38)
x-ray emission at 8 to 75 A, 22:5122
x-ray energies of, K, (E), 25:14981 (IN-1448)
x-ray spectra from μ-mesic, nuclear charge parameters for analyzing, (E/T), 22:20640
x-ray spectra of, energies of $K\alpha_1$ and $K\alpha_2$ lines in, (E), 24:8333

PLUTONIUM ALLOYS AND SYSTEMS
analysis for aluminum, cerium, cobalt, iron, lanthanum and cerium, molybdenum, niobium, rhodium and platinum, ruthenium, tantalum, titanium, uranium, and zirconium, 21:35895
analysis for impurities, review on methods for, 21:19532 (CEA-R-3051)
analysis for iron by spectrophotometry after liquid—liquid extraction, 22:10172 (LA-3781)
analysis for rare earths by x-ray fluorescence spectrometry, 23:36
analysis for scandium by x-ray fluorescence and ion exchange, 23:19647
book: Analytical Chemistry of Plutonium, 21:35895
casting of, development of crucible coatings for, 25:727 (LA-4495)
coating with nickel, effects of temperature on structure of, 23:36026 (CEA-CONF-1241)
conference on reactor fuels of, 23:10155
corrosion and oxidation of, review of, 22:2577
criticality of, effects of added scatterers on, (T), 24:36083
crystal structure optimization for fuels of, 23:20464
diffusion of cobalt in, tracer studies of, 25:58212 (NRCN-268)
electric conductivity at low temperatures, Kondo minima in, 24:45358
fabrication and properties of, for use as fuel in fast reactors, 21:11191 (CONF-661003-13)
fabrication into aluminum clad fuel elements, method for, 23:36049(P)
fabrication of, methods for, 22:8714
Hall effect and electronic structure of delta, 21:32912
metallography of, preparation of samples for, 22:2656
metallography of, review on optical, 21:18226 (GA-7127)
phase diagrams of, handbook on, 23:18238 (LA-3870)
phase studies on, review of, 22:21650
phase transformation studies of beta- and delta-stabilized, 21:32908
physical properties of delta-phase, at 4 to 77°K, 21:32870
physical properties of, review of, 21:39633
plating with indium, lead, or zinc incorporating primary coating of adherent metal, method for electro-, 24:19402(P)
preparation and properties of, 23:41609
preparation of irradiated and reconstituted fuels of, for analysis, 23:40535 (CEA-N-1044, pp 3-50)

production and properties for use as reactor fuel, review of, 23:9262
properties, 22:36495
properties and behavior of, review of, 22:2655
properties as reactor fuel, technology of, 21:36844
properties for use as nuclear fuel, review on, 25:45044
properties of intermetallic compounds of, chemical and structural, 25:27263
properties of, review on, 23:45989
properties of, review on, 24:44770
radiation effects on, 22:36515
radiation testing of liquid, in-pile loops for, 22:35600 (LA-3832)
stability of liquid, in presence of construction materials, 24:50439(R) (ANL-7675)
storage behavior of, review of effects of corrosion, pyrophoricity, and radiation properties on, 25:24566
thermal expansion of, fused-quartz dilatometer for measurement of, 24:19256 (ANL-7643)
thermochemistry of intermetallic compounds in, 21:25935(R) (ANL-7225)
actinides—C—Pu—U, phase studies, 23:36265
Ag—Pu, phase diagram of, 25:11441
Ag—Pu, phase diagrams of, 21:32918
Ag—Pu, phase studies of, 24:42136 (UCRL-72225)
Ag—Pu, phase studies of, 22:2655
Al—Pu, analysis for plutonium by spectrophotometry, 23:40535 (CEA-N-1044, pp 3-50)
Al—Pu, analysis for plutonium by x-ray fluorescence, 22:12228(T) (BNWL-tr-24)
Al—Pu, analysis for plutonium by x-ray fluorescence, 21:34231
Al—Pu, analysis for plutonium, spectrophotometric, 24:11423 (CEA-N-1148, pp 3-80)
Al—Pu, analysis for plutonium, spectrophotometric, 24:22576(T) (ANL-Trans-796)
Al—Pu, analysis for plutonium-240, using gamma scintillation detectors and neutron coincidence counting, 24:44222 (BNL-50205, pp 16-25)
Al—Pu, analysis of intermetallic compounds in, electron microprobe method for, 23:41656
Al—Pu, analysis of irradiated, for plutonium(VI) by solvent extraction using TTA and spectrophotometry, 25:6260 (CEA-N-1341, pp 3-93)
Al—Pu, burnup analysis of fuels in PRTR, 21:19460 (BNWL-CC-904)
Al—Pu, burnup at high exposures, data on, 22:11004 (BNWL-CC-905)
Al—Pu, burnup in PRTR of, theory experiment correlation of, 21:38660 (BNWL-393)
Al—Pu, burnup of EBWR fuel rods of, post-irradiation data for, 23:26046 (BNWL-978)
Al—Pu, burnup of thermal reactor fuels of, 25:41623
Al—Pu, dissolution of, 22:149
Al—Pu, dissolution of fuel elements of, 22:37640(T) (ANL-Trans-628, pp 2-50)
Al—Pu, dissolution of, method and apparatus for, 25:6408(P)
Al—Pu, fuel criticality for, effects of lattice spacing on, 23:6020(R) (BNWL-887)
Al—Pu, fuel elements of, atom ratios and neutron cross-section ratios after burnup of, 21:46952
Al—Pu, fuel elements of, critical mass calculations for water-moderated rod-type, 23:13539(R) (BNWL-921)
Al—Pu, fuel elements of, evaluation for irradiation testing in PRTR, 21:44935 (BNWL-SA-1204)
Al—Pu, fuel elements of, modification for use in lattice physics measurements of, 23:17265(R) (GA-9051)
Al—Pu, Hall effect and electronic structure of, 21:32912
Al—Pu, magnetic properties of solid solutions of $PuAl_2$ in intermetallic compounds, 21:11208 (ANL-7155, pp 167-289)
Al—Pu, mechanical properties of delta-stabilized, 22:2632
Al—Pu, neutron spectra and fluence to dose conversion factors for, (E), 24:30665 (BNWL-1262)
Al—Pu, oxidation of, in air and oxygen at 140 to 550°C, kinetics of, 21:9072
Al—Pu, phase diagrams and properties, 22:36495
Al—Pu, phase diagrams of, 21:45937
Al—Pu, phase studies of, 22:2655
Al—Pu, phase studies of, 21:32916
Al—Pu, phase studies of intermetallic compounds $PuAl_4$ and $PuAl_3$ in, 21:32915
Al—Pu, phase studies of, electron-microscopic, 21:32921
Al—Pu, physical properties of, 22:2627
Al—Pu, physical properties of delta-phase, at 20 to 600°K, 21:32871
Al—Pu, precipitation of intermetallic, in irradiated aluminum—magnesium alloy fuel element cladding, 24:14747
Al—Pu, processing solutions of, by vitrification, 22:27849 (CEA-N-816, pp 415-80)
Al—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
Al—Pu, radiation dose rates from in-pile exposure samples of, shielding requirements for, 22:19669 (BNWL-624, pp 2.1-32)
Al—Pu, radiation effects on fuels of, review on, 22:8804
Al—Pu, reactivity of, in lattices with thoria targets, (E/T), 21:8093
Al—Pu, recovery of plutonium from, process for, 22:21167
Al—Pu, reprocessing of enriched fuels of, dissolution, solvent extraction, and evaporation methods for, 23:40788(T) (AEC-tr-7076, pp 73-107)
Al—Pu, reprocessing of highly irradiated fuels of, 23:49886 (CEA-CONF-1363)
Al—Pu, reprocessing of highly irradiated targets of, by solvent extraction using tridodecylamine, 23:49885 (CEA-CONF-1362)
Al—Pu, reprocessing of irradiated fuels of, by nitric acid dissolution and solvent extraction using TBP, 24:36340 (CEA-N-1241, pp 255-89)
Al—Pu, reprocessing of, using dodecane—TBP, distribution coefficients for, 24:36339 (CEA-N-1241, pp 179-254)
Al—Pu, separation of contaminants and transuranium elements from targets of, methods for, 22:25455 (CEA-N-616, pp 295-368)
Al—Pu, separation of fission products and transplutonium elements from irradiated, method for, 21:36085 (SCCI-19)
Al—Pu, separation of fission products from irradiated, by solvent extraction using TBP, 24:11653 (CEA-N-1148, pp 183-271)
Al—Pu, separation of fission products from irradiated, by solvent extraction using TBP, 24:22723(T) (ANL-Trans-799)
Al—Pu, separation of ruthenium from basic suspensions of irradiated, by extraction using tridodecylamine hydrochloride, 23:35320(P)
Al—Pu, separation of ruthenium from irradiated, by solvent extraction using tridodecylammonium chloride solutions, 24:11683(P)
Al—Pu, separation of transplutonium elements from irradiated, equipment for, 21:36083 (NP-16940)
Al—Pu, separation of transplutonium elements from irradiated fuels of, description of hot cells for, 23:2376 (NP-17614)
Al—Pu, separation of unburned plutonium from spent fuels of, by solvent extraction using TBP, effects of nitric acid on, 23:40787(T) (AEC-tr-7076, pp 20-72)
Al—Pu, tensile strength and hardness of, 22:2632
Al—Pu, use as target for production of transcurium elements, irradiation conditions for, 22:25455 (CEA-N-616, pp 295-368)
Al—Pu, waste solutions from processing of, calcination of, 22:27849 (CEA-N-816, pp 415-80)
Al—Pu—U, aluminum-27 NMR and relaxation in U/sub 1-x/Pu/sub x/Al_2, 25:47685
Al—Pu-base, aluminum-27 NMR in delta-, 25:14481
Al—Pu-base, diffusion in couples incorporating delta-phase plutonium, effects of temperature at 350 to 517°C on inter-, 23:12291
Al—Pu-base, elastic behavior of, at low temperature, 23:33971
Al—Pu-base, electronic properties of delta-phase, positron annihilation study of, 25:11998
Al—Pu-base, fabrication and use of nuclear fuels of, 22:8715
Al—Pu-base, radiation effects on electric conductivity of delta-, fission-fragment, 25:52901(T) (JPRS-53800, pp 62-71)
Al—Pu-base, radiation effects on length of delta-, self-, 25:11468
Al—Pu-base, thermal expansion coefficients for, dilatometry measurement of, 24:42099 (UCRL-72223)
Al-base—Pu, casting and Zircaloy-2 encapsulation as fuel elements, 22:43552
Al-base—Pu, fabrication and use of nuclear fuels of, 22:8715
alkali metals—Pu, phase diagrams of, 21:45937
alkaline earth metals—Pu, phase diagrams of, 21:45937
Am—Pu, phase studies of, 22:2655
As—Pu, phase studies of, 22:2655
Au—Pu, phase diagram of, 21:32914
Au—Pu, phase diagrams of, 21:32918
Au—Pu, phase studies of, 21:32919
Au—Pu, phase studies of, 22:2655
Au—Pu, phase studies on, 21:13143(R) (MLM-1328)
B—C—Pu, properties of compounds of, for use as reactor fuel, 25:32819(P)
B—C—Pu—U, properties of compounds of, for use as reactor fuel, 25:32819(P)
B—N—Pu, properties of compounds of, for use as reactor fuel, 25:32819(P)
B—Pu, phase relations in, 22:2699
B—Pu, phase studies of, 22:2655
Ba—Pu, phase studies of, 22:2655
Be—Pu, phase diagram, 22:10986(T) (JPRS-43479)
Be—Pu, phase diagrams and properties, 22:36495
Be—Pu, phase diagrams of, 21:45937
Be—Pu, phase studies of, 22:2655
Be—Pu, preparation for neutron sources, 22:5707 (BARC-294)
Be—Pu-238, neutron yield from, (E), 23:37090
Bi—Pu, phase studies of, 22:2655
Bi—Pu, thermodynamics of solutions of, 24:1025
C—Cr—Pu—U, fuels of, description of, 23:37818(P)
C—Cr—Pu—U, phase diagrams, 24:1104(R) (WARD-3791-40)
C—Cr—Pu—W, phase studies, 23:24871(R) (WARD-3791-31)
C—Mo—Pu, phase studies at 1000°C to liquidus, 21:32994
C—Mo—Pu—U, crystal structure and phase studies of, 21:36928 (CEA-R-3229)
C—Mo—Pu—U, properties of, 21:32876
C—Mo—Pu—U, properties of sintered fuels of, containing small additions of molybdenum, 25:721 (CEA-CONF-1632)
C—N—O—Pu, phase studies, 23:36265
C—N—O—Pu—U, phase studies, 24:6283
C—N—O—Pu—U, phase studies of, 21:14871(R) (UNC-5132)
C—N—O—Pu—U, preparation of carbides, carbonitrides, and hypostoichiometric oxides in, 25:55594 (ORNL-4682, pp 218-28)
C—N—O—Pu—U, thermodynamic properties and stoichiometry of, 25:42998
C—N—Pu, nitrogen pressures for equilibria in, equations for calculation of, 24:14947
C—N—Pu, phase diagram, 22:52259 (CEA-R-3536)
C—N—Pu, phase diagram, 23:10246
C—N—Pu, phase diagram of, 23:18272(T) (ORNL-tr-3019)
C—N—Pu, phase studies of, 24:14947
C—N—Pu—U, mechanical properties of, effects of porosity on, 24:51205 (CEA-CONF-1620)
C—N—Pu—U, phase studies, 23:36265
C—N—Pu—U, phase studies and structures of, review on, 25:42982 (JAERI-13650)
C—N—Pu—U, phase studies of, 24:51218 (CEA-CONF-1589)
C—O—Pu, phase diagram, 24:8208
C—O—Pu, phase diagram of, 21:20466
C—O—Pu, phase studies, 22:31505
C—O—Pu, preparation of compounds of, methods for, 24:8208
C—O—Pu—U, corrosion properties of, 21:14871(R) (UNC-5132)
C—O—Pu—U, phase equilibria in, prediction of, 25:11525
C—O—Pu—U, phase studies of, 21:14871(R) (UNC-5132)
C—O—Pu—U, phase studies of, 24:51218 (CEA-CONF-1589)
C—O—Pu—U, thermal conductivity of, 21:14871(R) (UNC-5132)
C—Pu, phase diagram, 23:8321 (LA-DC-9724)
C—Pu, phase diagram, 24:8208
C—Pu, phase diagram of, 24:44785 (LA-4415)
C—Pu, phase relations in, 22:2699
C—Pu, phase studies, 22:41122
C—Pu, phase studies, 21:19496(R) (LA-3607)
C—Pu, phase studies, 23:27184 (AERE-R-5922)
C—Pu, phase studies, 22:31471
C—Pu, phase studies of, 22:2655
C—Pu, physical properties of, 22:2627
C—Pu, preparation of compounds of, methods for, 24:8208
C—Pu, thermochemical properties of, 23:8321 (LA-DC-9724)
C—Pu, thermodynamic properties at 900 to 2200°K, 25:11506
C—Pu, thermodynamic properties of, review of, 25:16604
C—Pu, thermodynamics and volatility of phases in, 21:34957 (LA-DC-8012)
C—Pu, vapor pressure of, 23:26209 (ANL-7550, pp 35-73)
C—Pu, volatilization kinetics of, mass spectrometric analysis of, 24:19500
C—Pu—rare earths—U, phase studies, 23:36265
C—Pu—Si, phase studies, 23:36265
C—Pu—Si, phase studies at 1000°C to liquidus, 21:32994
C—Pu—Th, equilibria in, thermodynamics of thorium monocarbide formation from, 23:28825
C—Pu—Th, phase studies at 1000°C to liquidus, 21:32994
C—Pu—Ti—U, properties of, 23:17392 (CEA-R-3656)
C—Pu—Ti—U, properties of, 21:32876
C—Pu—Ti—U, properties of sintered fuels of, containing small additions of titanium, 25:721 (CEA-CONF-1632)
C—Pu—Ti—U, thermal properties of phases formed in, 21:28826 (CEA-R-3201)
C—Pu—transition metal, phase studies of, 24:32439
C—Pu—transition metals—U, phase studies, 23:36265
C—Pu—U, fabrication and testing of stainless steel-clad sodium-bonded fuels of, 25:40098
C—Pu—U, homogeneity and inclusions in, electron microprobe studies on, 21:26876(R) (LA-3686)
C—Pu—U, phase diagram, 22:17113 (JAERI-1144)
C—Pu—U, phase diagrams of, isothermal, 25:11524
C—Pu—U, phase relations in high-carbon systems of, 21:38758
C—Pu—U, phase studies, 23:27184 (AERE-R-5922)
C—Pu—U, phase studies, 21:19496(R) (LA-3607)
C—Pu—U, phase studies of, 24:51218 (CEA-CONF-1589)
C—Pu—U, phase studies on, 21:45068 (ANL-7325, pp 99-135)
C—Pu—U, phase studies on, 24:10186
C—Pu—U, properties of, effects of titanium on, 23:17392 (CEA-R-3656)
C—Pu—U, transpiration of, 22:52257 (ANL-7425, pp 94-129)
C—Pu—U, vapor pressure of, 22:52257 (ANL-7425, pp 94-129)
C—Pu—U, vapor pressure of, 23:26209 (ANL-7550, pp 35-73)
C—Pu—U—Zr, properties of, 21:32876
C—Pu—U—Zr, properties of sintered fuels of, containing small additions of zirconium, 25:721 (CEA-CONF-1632)
C—Pu—U-base, preparation of deoxidized, method for, 22:21755(P)
C—Pu—U-base—W, preparation of fuels of, development of method for, 24:39598(R) (AI-AEC-12948)
Ca—Pu, phase studies of, 22:2655
Cd—Pu, thermodynamic properties of intermetallic compounds in, 21:4479 (ANL-7125, pp 119-49)
Ce—Co—Pu, burning in nitrogen and oxygen atmospheres, size characteristics of aerosol produced by, 21:44882
Ce—Co—Pu, corrosive effects on tantalum, effects of oxygen and nitrogen content on, 21:39554
Ce—Co—Pu, density of liquid, 21:32874
Ce—Co—Pu, fuels of, fission gas venting to sodium coolant from encapsulated liquid, 22:4730 (LA-3766)
Ce—Co—Pu, heat-induced climb of liquid, on tantalum capsule surfaces, 21:23659
Ce—Co—Pu, phase diagrams, 23:8254
Ce—Co—Pu, phase studies of, 21:4957
Ce—Co—Pu, phase studies of, 22:2655
Ce—Co—Pu, radiation effects on, in-pile, 21:23659
Ce—Co—Pu, reactions of liquid, with sodium at 700 and 825°C, 21:32859 (LA-3545)
Ce—Co—Pu, solvent properties of liquid, for tantalum, 22:10918
Ce—Co—Pu, surface tension of liquid, determination from frozen menisci, 21:16610
Ce—Co—Pu, viscosity of, 22:28796
Ce—Co—Pu, viscosity of, effects of composition and density on, 21:32874

Ce—Co—Pu-base, corrosive effects of liquid, on tantalum and tantalum—tungsten containers at 900 to 1100°C, 21:36787 (LA-3631)
Ce—Co—Pu-base, corrosive effects of liquid, on tantalum and tantalum—tungsten alloys, 23:8254
Ce—Fe—Pu, phase diagram of, 21:32917
Ce—Fe—Pu, phase studies, 22:734
Ce—Fe—Pu, phase studies on, 21:13143(R) (MLM-1328)
Ce—Ni—Pu, phase diagrams of, 21:32918
Ce—Ni—Pu, phase studies, 22:734
Ce—Ni—Pu, phase studies on, 21:13143(R) (MLM-1328)
Ce—Pu, densities of liquid, effects of temperature on, 22:2612(R) (MLM-1402)
Ce—Pu, density of liquid, 21:32874
Ce—Pu, density of liquid, 21:22888(R) (MLM-1346)
Ce—Pu, density of liquid, at 662 to 824°C, 21:13143(R) (MLM-1328)
Ce—Pu, electric conductivity of, effects of precipitation of delta-plutonium on, 22:41064
Ce—Pu, Hall effect and electronic structure of, 21:32912
Ce—Pu, liquidus temperatures and viscosities for, 21:13143(R) (MLM-1328)
Ce—Pu, mechanical properties of delta-stabilized, 22:2632
Ce—Pu, phase diagrams of, 21:45937
Ce—Pu, phase studies of, 22:2655
Ce—Pu, physical properties of, 22:2627
Ce—Pu, physical properties of delta-phase, at 20 to 600°K, 21:32871
Ce—Pu, precipitation of delta-plutonium in, by thermal cycling, 22:41064
Ce—Pu, viscosity of, effects of composition and density on, 21:32874
Ce—Pu-base, diffusion of cerium in delta-stabilized, at 403 to 528°C, 22:47682
Ce—Pu-base, elastic properties of delta stabilized, 23:33971
Ce—Pu-base, thermal conductivity at 75 to 300°K, 23:22554
Ce—Pu-base, thermal conductivity of, 24:2976
Ce—Pu-base, thermal expansion coefficients for, dilatometry measurement of, 24:42099 (UCRL-72223)
Ce-base—Pu, radiation effects on, α, 21:41629
Ce-base—Pu—Y, Kondo effect in dhcp, 25:52951
Co—Pu, phase studies of, 22:2655
Cr—N—Pu, phase studies of, 25:8910 (ORNL-4600, pp 41-56)
Cr—N—Pu, phase studies of, 25:49505 (ORNL-TM-3300, pp 53-96)
Cr—N—Pu, phase studies of, 25:49508 (ORNL-TM-3416, pp 52-74)
Cr—Pu, phase diagrams and properties, 22:36495
Cr—Pu, phase diagrams of, 21:45937
Cr—Pu, phase studies of, 22:2655
Cs—Pu, phase studies of, 22:2655
Cs—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
Cu—fission products—Mg—Pu, separation of plutonium from, by liquid metal—molten salt extraction, 23:38041
Cu—Ga—Pu, phase studies of, 25:19230 (CEA-R-3951)
Cu—Ni—Pu, separation of plutonium from, by extraction using molten calcium fluoride—lithium fluoride, 25:237
Cu—Pu, crystal structure of intermetallic $PuCu_6$ in, 21:13143(R) (MLM-1328)
Cu—Pu, diffusion in epsilon phase on welded couples of plutonium and, chemical, 25:11387
Cu—Pu, diffusion of plutonium in, at 500°C, effects of gallium on, 25:19230 (CEA-R-3951)
Cu—Pu, phase diagrams of, 21:32918
Cu—Pu, phase studies of, 22:2655
Cu—Pu, phase studies of, relations with growth kinetics and formation mechanism, 25:52381
Cu—Pu, phase studies of, using differential thermal analysis, 25:29885
dodecane—HNO_3—Pu—tridodecylamine, phase studies of, 22:40154 (CEA-R-3478)
Eu—Pu, phase studies, 23:41657
Fe—Mn—Pu, phase studies of, 21:36863(R) (MLM-1347)
Fe—Mn—Pu, phase studies of, 22:2612(R) (MLM-1402)
Fe—Pu, analysis of intermetallic compound, using electron probe microanalyzers, 22:2625
Fe—Pu, analysis of, electron-microprobe, 22:39988 (RFP-1146)
Fe—Pu, iron-57 Moessbauer study of intermetallic Pu_6Fe, (E/T), 23:39577
Fe—Pu, magnetic hyperfine field in $PuFe_2$ from Moessbauer spectra, 24:28445
Fe—Pu, magnetic properties of cubic Laves phase in intermetallic compound $PuFe_2$, Moessbauer studies on, 25:41833(R) (IA-1218)
Fe—Pu, magnetic splitting of iron-57 Moessbauer spectrum in $PuFe_2$,, 24:35581
Fe—Pu, mechanical properties of, summary of, 22:2632
Fe—Pu, phase diagram, 23:14318 (LA-DC-9809)
Fe—Pu, phase diagrams and properties, 22:36495
Fe—Pu, phase diagrams of, 21:45937
Fe—Pu, phase studies at 1142 and 1165°C, 22:10989
Fe—Pu, phase studies of, 22:2655
Fe—Pu, physical properties of, 22:2627
Fe—Pu, thermodynamic properties of $PuFe_2$, at 792 to 1106°K, emf measurements of, 25:37946 (LA-4638)
Fe—Pu, viscosity of, 22:28796
Fe—Pu—U, analysis for carbon, impurities, iron, and plutonium, methods for, 22:25236 (CEA-N-616, pp 20-71)
Fe—Pu—U, analysis of nitric acid solutions of, for free acid, thermometric, 24:43938 (CEA-N-1292, pp 25-8)
Fe—Pu—U, corrosion resistance of, 21:32877
Fe—Pu—U, fabrication into fuel for MASURCA, 23:10177
Fe—Pu—U, phase studies of, 22:2655
Fe—Pu—U, properties of, 21:32876
Fe—Pu—U, properties of, 21:15796
Fe—Pu—U-base, casting and fabrication into Masurca fuel elements, 23:8129 (EUR-3663)
Fe—Pu-base, corrosive effects of liquid, on tantalum and tantalum—tungsten containers at 900 to 1100°C, 21:36787 (LA-3631)
Fe—Pu-base, fabrication and use of nuclear fuels of, 22:8715
fissium—Pu—U, burnup of sodium-cooled fast reactor fuel of, analysis of, 22:18511
fissium—Pu—U, cladding materials for, compatibility of, 21:11177
fissium—Pu—U, compatibility with cladding materials, 21:33009
fissium—Pu—U, irradiation behavior in high-burnup prototype fuel elements, 23:11350 (ANL-7388)
fissium—Pu—U, irradiation of, fuel-volume increase and fission-gas release in, 21:20466
fissium—Pu—U, mechanical properties of, 22:2632
fissium—Pu—U, properties of unclad fuel elements of, 22:5945
fissium—Pu—U, radiation effects on, 21:33009
fissium—Pu—U, radiation effects on fuel elements and rods of, 21:11190 (ANL-7155, pp 1-166)
fissium—Pu—U, radiation effects testing in EBR-II, 21:7856(R) (ANL-7255)
fizzium—Pu—U, fabrication of fuel elements of, 21:11190 (ANL-7155, pp 1-166)
fizzium—Pu—U, radiation effects on fuels of, review on, 22:8804
fizzium—Pu—U-base, enthalpy and thermal capacity of, 22:19538
fizzium—Pu—U-base, transformation kinetics during annealing, 22:19537
Ga—Pu, alpha-phase precipitation in delta-phase, effects of cold treatment at -80°C on, 22:8769
Ga—Pu, analysis for gallium by titration using EDTA, 24:36144 (FOA-4-4422-24)
Ga—Pu, analysis for gallium, polarographic, 25:6260 (CEA-N-1341, pp 3-93)
Ga—Pu, analysis of intermetallic compound, using electron probe microanalyzers, 22:2625
Ga—Pu, analysis of, electron-microprobe, 22:39988 (RFP-1146)
Ga—Pu, creep behavior of delta-stabilized, at 234 to 387°C, 21:32879
Ga—Pu, critical recrystallization strain determination for, 21:45949
Ga—Pu, crystal structure of strain-annealed, 21:39644(R) (NUMEC-3428-35)
Ga—Pu, diffusion in, computer programs for determination of, 25:15627 (RFP-1544)
Ga—Pu, ductility of, effects of impurities and temperature on, 21:31005 (UCID-15141)
Ga—Pu, electric conductivity at 26 to 773°K, 21:34885 (LA-1883)
Ga—Pu, electron micrographs of, sputtering technique for preparation of, 23:8241
Ga—Pu, formation heats of intermetallic compounds of, methods of determining, 22:31364
Ga—Pu, heat treatment of, 22:2633
Ga—Pu, mechanical properties of delta-stabilized, 22:2632
Ga—Pu, microstructure of foils of, dislocations in, 21:24796
Ga—Pu, oxidation in air and moist argon, 21:32826
Ga—Pu, phase diagram, 23:14318 (LA-DC-9809)
Ga—Pu, phase diagram of, 21:32914
Ga—Pu, phase equilibria of, effects of high pressure and temperature on, 21:6834
Ga—Pu, phase studies of, 22:2655
Ga—Pu, phase studies of, electron-microscopic, 21:32921
Ga—Pu, phase transformation kinetics in, delta-alpha, 21:32907
Ga—Pu, preparation and evaluation of plutonium-238-containing, as heat source, 23:24258
Ga—Pu, properties of, effects of composition and fabrication techniques on, 21:32909
Ga—Pu, separation of plutonium from, by electrorefining, 23:10178(P)
Ga—Pu, solvent properties for niobium at 700 to 1000°C, 23:17395 (LA-4078)
Ga—Pu, stabilization of delta-phase, effects of pressure on, 21:32910
Ga—Pu-base preparation of large grains of, critical strain in, 21:9093
Ga—Pu-base, alpha phase precipitation in delta-stabilized, method for measuring, 23:27118
Ga—Pu-base, annealing of shock-hardened, kinetics of, 25:42857
Ga—Pu-base, crystal orientation in cold-rolled dilute, 23:36029 (RFP-1315)
Ga—Pu-base, deformation mechanisms in delta-stabilized fcc, at -196 to 25°C, effects of concentration and strain rate on, 25:11435
Ga—Pu-base, deformation of delta-stabilized, at -80 to -196°C, mechanisms for plastic, 24:25718
Ga—Pu-base, diffusion coefficients of annealed couples of, 22:19567
Ga—Pu-base, diffusion in epsilon phase of, compared with delta phase, chemical, 25:29873
Ga—Pu-base, diffusion of gallium in delta-stabilized dilute, 23:16496
Ga—Pu-base, diffusion of plutonium in delta-stabilized, at 240 to 644°C, self-, 25:24567
Ga—Pu-base, ductility and strength at 20 to 600°C of delta-stabilized, effects of purity on, 23:36121
Ga—Pu-base, elastic constants at low temperatures of delta-phase, 22:41071
Ga—Pu-base, electric conductivity of solid solutions of delta-phase, at 5 to 300°K, 25:52965
Ga—Pu-base, enthalpy and thermal capacity of delta-stabilized, at 0 to 685°C, 24:42112
Ga—Pu-base, expansion of rolled and segregated, at 25 to 475°C, 25:11388
Ga—Pu-base, fabrication of dispersion-hardened delta-stabilized, 25:11359
Ga—Pu-base, grain growth in, anneal—strain effects on, 22:4779
Ga—Pu-base, grain structure of, effects of hot-working temperature on, 24:42100 (UCRL-72547)
Ga—Pu-base, growth of large crystals of, using modified solidification technique, 22:28761
Ga—Pu-base, hardness, 21:26817
Ga—Pu-base, hardness at room temperature to 415°C, 22:21685 (BNWL-682)
Ga—Pu-base, hardness of, effects of gallium and surface preparation on, 21:9144 (RFP-658, pp 160-7)
Ga—Pu-base, ignition of, effects of oxygen, solvent vapor, and water vapor on, 25:16442 (RFP-1566)
Ga—Pu-base, mechanical properties of delta-stabilized, at 23 to 600°C, effects of strain and strain rate on, 24:44705 (UCRL-72544)
Ga—Pu-base, mechanical properties of dispersion-hardened delta-stabilized, at 25 to 400°C, 25:11359
Ga—Pu-base, microstructure and phase composition of heat-treated and as-sputtered, 25:11360
Ga—Pu-base, phase diagram of, effects of pressure on, 25:52382
Ga—Pu-base, phase diagram of, proposed, 25:11446
Ga—Pu-base, phase studies of, 25:4801
Ga—Pu-base, phase transformation of, effects of thermal cycling on, 21:26845
Ga—Pu-base, phase transformations in metastable, 25:11446
Ga—Pu-base, phase transformations of, at 5 to 300°K, effects of concentration on, 25:52965
Ga—Pu-base, preparation by triode sputtering, 25:11360
Ga—Pu-base, preparation of thin films of, for electron microscopy, 24:8070 (CONF-670533-, pp 166-76)
Ga—Pu-base, preparation of thin-film, 21:31035 (RFP-899)
Ga—Pu-base, tensile properties at -60, 30, and 77°C, 22:2622
Ga—Pu-base, tensile properties of high-purity delta-stabilized, effects of hot working on room-temperature, 25:11390
Ga—Pu-base, tensile properties of rolled, at 25 to 600°C, effects of trace amounts of iron and nickel on, 25:11391
Ga—Pu-base, tensile properties of, at 25 to 500°C, effects of strain rate and temperature on, 25:55427 (BNWL-1567)
Ga—Pu-base, tensile properties of, effects of hot working at 300 to 500°C on, 24:42100 (UCRL-72547)
Ga—Pu-base, texture of, effects of reduction on rolling, 24:19434
Ga—Pu-base, thermal capacity at low temperatures of delta-phase, 22:41071
Ga—Pu-base, thermal conductivity at 75 to 300°K, 23:22554
Ga—Pu-base, thermal conductivity of, 24:2976
Ga—Pu-base, thermal conductivity of delta-, at 300°K, 25:35424
Ga—Pu-base, thermal expansion at 25 to 475°C, equations for calculation of, 23:36111
Ga—Pu-base, thermal expansion coefficients for, dilatometry measurement of, 24:42099 (UCRL-72223)
Ga—Pu-base, twinning in delta-stabilized, annealing and deformation, 25:11436
Gd—Pu, phase diagrams, 21:32918
Gd—Pu—Y, phase studies on, 21:13143(R) (MLM-1328)
Gd—Pu-base, thermal conductivity of delta phase of, at 30 to 90°C, 25:29876
Ge—Pu, phase studies of, 22:2655
H—Pu, phase diagrams and properties, 22:36495
H—Pu, phase relations in, 22:2699
Hf—Pu, phase diagram, 23:41534
Hf—Pu, phase diagrams of, 21:32918
Hf—Pu, phase diagrams of, 21:45937
Hf—Pu, phase studies, 23:6697
Hf—Pu, phase studies of, 22:2655
Hf—Pu-base, crystal structure of zeta phase of, 24:19456 (LA-4367)
Hf—Pu-base, phase transformation kinetics of, beta-to-alpha, 22:41067
Hg—Pu, phase diagrams and properties, 22:36495
Hg—Pu, phase studies of, 22:2655
In—Pu, phase diagram of, 21:32914
In—Pu, phase studies of, 22:2655
Ir—Pu, phase diagrams of, 21:32918
K—Pu, phase studies of, 22:2655
K—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
La—Pu, electric conductivity of, 23:8664 (CONF-681020-(Vol.2), pp 847-60)
La—Pu, phase diagram, 21:28790
La—Pu, phase studies of, 22:2655
La-base—Pu, Kondo effect in, plutonium virtual bound state from, 25:5227
Li—Pu, phase studies of, 22:2655
Li—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
Lu—Pu-base, casting of homogeneous, method for, 25:22031
Mg—Pu, phase studies of, 21:32916
Mg—Pu, phase studies of, 22:2655
Mg—Pu, phase studies on, 23:39000
Mg—Pu, physical properties of, 22:2627
Mg—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
Mg—Pu, thermodynamic properties of liquid, 23:39000
Mg—Pu—Zn, solvent properties for plutonium, 23:38976
Mg—Pu—Zn, thermodynamic properties of, 22:25442 (ANL-7375, pp 19-45)
Mn—Pu, phase studies of, 22:2655
Mo—Pu, phase diagrams and properties, 22:36495
Mo—Pu, phase diagrams of, 21:45937

Mo—Pu, phase studies of, 22:2655
Mo—Pu—U, analysis for plutonium, accountability methods for, 22:6 (CONF-661011, pp 135-45)
Mo—Pu—U, analysis of solutions of, for impurities, spectrographic, 22:22930(R) (NBL-242)
Mo—Pu—U, analysis of solutions of, for molybdenum, spectrophotometric, 21:27893(R) (NBL-237)
Mo—Pu—U, analysis of ZPPR fuel elements of, for plutonium by γ spectrometry using on-line computer control, 24:22601
Mo—Pu—U, combustion of, induction of self-sustaining or propagating, 21:25935(R) (ANL-7225)
Mo—Pu—U, fabrication as fuel for fast critical experiments, 21:32877
Mo—Pu—U, ignition and combustion characteristics of reactor fuels of, (E), 22:30297 (ARH-471)
Mo—Pu—U, phase studies of, 22:2655
Mo—Pu—U, preparation of standard nitric acid solutions of, 21:27893(R) (NBL-237)
Mo—Pu—U, properties of, 21:32876
Mo—Pu—U, properties of, for use as fast reactor fuel elements, 21:11190 (ANL-7155, pp 1-166)
Mo—Pu—U, radiation effects on fuels of, review on, 22:8804
Mo—Pu—U, separation of alloy fume of, from atmosphere, efficiency of sand for, 23:11624
Mo—Pu—U, tensile strength and hardness of, 22:2632
Mo—Pu—U, thermal properties of, measurement of, 22:30386
Mo—Pu—U-base, fabrication for ZPR fuel, quality control in, 23:43955 (CONF-680506-, pp 73-95)
Mo—Pu—U-base, fabrication into ZPPR fuel elements, 22:43627 (ANL-7299, pp 14-113)
Mo—Pu—U-base, stainless steel jacketed plates of, design and fabrication of, (E), 22:15153 (ANL-7313)
Mo-base—Pu—U, compatibility with 304L stainless steel, 21:30216
Mo-base—Pu—U, fabrication of stainless steel-clad fuels of, specifications for, 23:10176
Mo-base—Pu—U, thermal expansion of hot-rolled, 21:30216
N—O—Pu, phase studies of, 24:51218 (CEA-CONF-1589)
N—O—Pu—U, phase studies of, 24:51218 (CEA-CONF-1589)
N—O—Pu—U, phase studies of, 21:14871(R) (UNC-5132)
N—Pu, phase relations in, 22:2699
N—Pu—U, phase studies of, 24:51218 (CEA-CONF-1589)
Na—O—Pu—U, phase studies on, 25:39470(R) (ANL-7750)
Na—Pu, phase studies of, 22:2655
Na—Pu, properties of aerosols produced by combustion or vaporization of, 23:46009
Na—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
Nb—Pu, phase diagrams and properties, 22:36495
Nb—Pu, phase diagrams of, 21:45937
Nb—Pu, phase studies of, 22:2655
Nb—Pu—U, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Pu—U, properties of, 21:32876
Nd—Pu, phase diagram, 23:41534
Nd—Pu, phase diagram and structure of, 23:12341
Nd—Pu, phase diagrams, 21:32918
Nd—Pu—Y, phase studies on, 21:13143(R) (MLM-1328)
Ni—Pu, diffusion at infinite dilution in, 23:8151 (CEA-R-3577)
Ni—Pu, phase diagram, 23:8181
Ni—Pu, phase diagrams of, 21:45937
Ni—Pu, phase studies of, 22:2655
Ni—Pu, physical properties of, 22:2627
Ni—Pu—U, phase studies of, 25:19230 (CEA-R-3951)
Np—Pu, phase diagrams of, 21:45937
Np—Pu, phase studies of, 22:2655
Np—Pu, phase transformations in, 21:24784
Np—Pu, physical properties of, 22:2627
O—Pu, phase diagram for, 21:8236 (LA-DC-8266)
O—Pu, phase diagrams and properties, 22:36495
O—Pu, phase studies at 700 to 1140°C, 21:32980
O—Pu, phase studies of high-temperature oxygen equilibrium in, 25:8945
O—Pu, phase studies on, 24:175 (ANL-7575, pp 77-129)
O—Pu, phase studies on, during arc melting in argon, 21:22888(R) (MLM-1346)
O—Pu, physical properties of, 22:2627
O—Pu, sublimation of vapor phases in, partial heats of, 22:22653(R) (ANL-7419)
O—Pu, thermodynamic properties at 700 to 1140°C, 21:32980
O—Pu, vapor pressure of, 23:26209 (ANL-7550, pp 35-73)
O—Pu, volatility of, mass-spectrometric studies on, 24:175 (ANL-7575, pp 77-129)
O—Pu—U, diffusion in, effects of temperature gradient on mechanism of, 25:11505
O—Pu—U, enthalpy of oxygen incorporation in (U,Pu) O/sub 2+-x/ in, 25:34606
O—Pu—U, heat content for, at 895 to 1840°C, 21:26876(R) (LA-3686)
O—Pu—U, phase diagram, 22:17113 (JAERI-1144)
O—Pu—U, phase diagram, 24:50439(R) (ANL-7675)
O—Pu—U, phase diagram of, 25:38004 (A/CONF.49/P-69)
O—Pu—U, phase diagram of, 22:43663
O—Pu—U, phase diagram of, room-temperature partial, 24:42273
O—Pu—U, phase diagrams, 23:24855 (JAERI-1172)
O—Pu—U, phase diagrams at 25 to 1400°C, partial isothermal, 24:27869 (EUR-4136)
O—Pu—U, phase studies, 23:51138
O—Pu—U, phase studies at 25 to 800°C, 23:18259(R) (PNCT-AR-67)
O—Pu—U, phase studies at 700 to 1140°C, 21:32980
O—Pu—U, phase studies of, 22:36543 (ANL-7450, pp 39-74)
O—Pu—U, phase studies of, 25:58409
O—Pu—U, phase studies of, 25:763 (CEA-CONF-1637)
O—Pu—U, phase studies of, 24:48874(R) (NP-18353)
O—Pu—U, phase studies of, 22:17168 (STI/DOC-10/79)
O—Pu—U, phase studies of, 22:31509
O—Pu—U, phase studies of, 24:23540(T) (JAPFNR-6)
O—Pu—U, phase studies of, 24:10145(R) (PNCT-AR-68)
O—Pu—U, phase studies on, 24:43990 (ANL-7650, pp 23-34)
O—Pu—U, phase studies on, 24:9269 (CEA-R-3919)
O—Pu—U, phase studies on, 23:26209 (ANL-7550, pp 35-73)
O—Pu—U, thermodynamic properties at 700 to 1140°C, 21:32980
O—Pu—U, thermodynamic properties of, 22:17168 (STI/DOC-10/79)
O—Pu—U, thermodynamic properties of, 22:36543 (ANL-7450, pp 39-74)
O—Pu—U, transpiration of, 22:52257 (ANL-7425, pp 94-129)
O—Pu—U, vapor pressure of, 22:52257 (ANL-7425, pp 94-129)
O—Pu—U, vapor pressure of, 23:26209 (ANL-7550, pp 35-73)
O—Pu—Zr, phase studies, 23:36261
Os—Pu, phase diagrams of, 21:45937
Os—Pu, phase studies of, 22:2655
Os—Pu-base, phase diagram of, 25:11438
P—Pu, phase relations in, 22:2699
Pb—Pu, phase chemical composition in, electron probe microanalysis of, 23:6691 (UCRL-50509)
Pb—Pu, phase diagram of, 21:31005 (UCID-15141)
Pb—Pu, phase studies of, 22:2655
Pb—Pu, phase studies of intermetallic compounds in, 23:46077
Pb—Pu, phase studies of intermetallic compounds in, 23:46076
Pd—Pu, lattice structure of, 23:7055
Pd—Pu, magnetic susceptibility of, 23:7054
Pd—Pu, phase diagrams of, 21:32918
Pd—Pu, phase studies of, 22:2655
Pd—Pu—Rh—Ru—U, formation in irradiated plutonium dioxide—uranium dioxide fuels, 22:17152
Pd—Pu—Rh—Ru—U, occurrence of inclusions of, in irradiated plutonium carbide—uranium carbide, 25:16541
Pd-base—Pu, electric conductivity and magnetic susceptibility of, 24:42827
Pd-base—Pu, magnetic properties at 2.5 to 300°K, (E/T), 25:43488
Pd-base—Pu, magnetic properties of solid solutions of, at 2 to 300°K, 25:12003
Pr—Pu, phase diagram, 23:41534
Pr—Pu, phase diagram and structure of, 23:12341
Pr—Pu, phase diagrams, 21:32918
Pr-base—Pu, Kondo effect in, plutonium virtual bound state from, 25:5227
Pt—Pu, electric conductivity of PuPt at 1.5 to 300°K, magnetic transition in, 25:33455
Pt—Pu, phase diagrams of, 21:32918
Pt—Pu, properties of intermetallic compounds of, for use as heat sources, 25:32126(R) (LA-4647)
Pu—PuC, reactions with ammonia to produce plutonium carbonitride, 23:36182 (RFP-715)
Pu—PuO$_2$, oxygen potentials of nonstoichiometric, 21:35957
Pu—rare earths, phase studies of, 22:2655
Pu—Rb, phase studies of, 22:2655
Pu—Rb, properties of aerosols produced by combustion or vaporization of, 23:46010
Pu—Re, analysis for rhenium, spectrophotometric, 21:35847 (LA-3711)
Pu—Re, phase studies of, 22:2655
Pu—Rh, phase diagrams of, 21:32918
Pu—Rh, phase studies of, 22:2655
Pu—Ru, phase diagrams of, 21:32918
Pu—Ru, phase diagrams of, 21:45937
Pu—Ru, phase studies of, 22:2655
Pu—Ru, thermodynamic properties of intermetallic PuRu$_2$, at 913 to 1078°K, measurement using emf cells, 25:58211 (LA-4758)
Pu—Ru, thermodynamic properties of intermetallic PuRu$_2$, 22:31463
Pu—Ru, thermodynamics of intermetallic PuRu$_2$, 21:42729(R) (LA-3745)
Pu—S, phase relations in, 22:2699
Pu—S—U, phase studies of, 24:25768 (ANL-7417, pp 25-36)
Pu—Sb, crystal structure of intermetallic compounds in, 22:37720
Pu—Sb, crystal structure of PuSb, 25:30002
Pu—Sb, preparation, crystal structure, and melting points of, 22:8061
Pu—Sc, compatibility with tantalum, 24:4764 (CEA-R-3880)
Pu—Sc, crystal structure and phase diagram of, 24:4764 (CEA-R-3880)
Pu—Sc, magnetic susceptibility at 100 to 300°K, 25:47680
Pu—Sc, oxidation of, 24:4764 (CEA-R-3880)
Pu—Sc, phase diagram of, 25:11440
Pu—Sc, phase diagrams, 21:32918
Pu—Sc, phase studies of, 25:681 (CEA-CONF-1631)
Pu—Sc, phase studies of, 22:2655
Pu—Sc, properties of, chemical, electric, and physical, 25:681 (CEA-CONF-1631)
Pu—Sc, properties of, electric, mechanical, and physical, 24:4764 (CEA-R-3880)
Pu—Sc, properties of, electric, mechanical, and physical, 25:11440
Pu—Se, crystal structure of PuSe and Pu$_3$Se$_4$, 25:30002
Pu—Sm, phase diagram, 23:41534
Pu—Sm, phase diagram and structure of, 23:12341
Pu—Sn, formation heats of intermetallic compounds of, methods of determining, 22:31364
Pu—Sn, phase diagrams of, 21:45937
Pu—Sn, phase studies of, 22:2655
Pu—Sr, phase studies of, 22:2655
Pu—Ta, phase diagrams and properties, 22:36495
Pu—Ta, phase diagrams of, 21:45937
Pu—Ta, phase studies of, 22:2655
Pu—Th, crystal structure of zeta-phase intermetallic compound in, 23:12332
Pu—Th, density and electric conductivity of, 24:23496 (ANL-7259)
Pu—Th, density of zeta-phase intermetallic compound in, 23:12332
Pu—Th, hardness of, 22:2632
Pu—Th, microstructure of, 24:23496 (ANL-7259)
Pu—Th, phase diagram, 23:10220 (ANL-7258)
Pu—Th, phase diagrams and properties, 22:36495
Pu—Th, phase diagrams of, 21:45937
Pu—Th, phase studies, 22:43520 (ANL-7299, pp 138-43)
Pu—Th, phase studies of, 22:2652
Pu—Th, phase studies of, 23:27108(T) (LA-tr-69-5)
Pu—Th, phase studies of, 21:32916
Pu—Th, phase studies of, 22:2655
Pu—Th, physical properties of, 22:2627
Pu—Th, properties of, description of mechanical and physical, 22:53456 (BNWL-861)
Pu—Th, radiation effects on fast reactor fuels of, 21:11190 (ANL-7155, pp 1-166)
Pu—Th, radiation effects on fuels of, review on, 22:8804
Pu—Th, radiation effects on mechanical and physical properties of, analysis of thermal neutron, 22:53456 (BNWL-861)
Pu—Th—U, burnup analysis of fuels of, 21:31898(R) (ANL-7329)
Pu—Th—U, burnup of fast breeder reactor fuels of, calculation of optimum, (T), 23:49568
Pu—Th—U, cycle in fast breeder reactors, (T), 23:45085
Pu—Th—U, fuel cycle management of, analysis of optimum fast breeder reactor, (T), 23:23925
Pu—Th—U, fuel elements for unclad liquid sodium-cooled dual-purpose desalting and power reactors, analysis of optimum economic design parameters for, 23:13556 (ORNL-4202)
Pu—Th—U, irradiation testing of fuel rods of, 21:12231(R) (ANL-7267)
Pu—Th—U, phase diagram, 23:10220 (ANL-7258)
Pu—Th—U, phase studies, 22:43520 (ANL-7299, pp 138-43)
Pu—Th—U, phase studies of, 21:30216
Pu—Th—U, phase studies on, 21:11190 (ANL-7155, pp 1-166)
Pu—Th—U, properties of unclad fuel elements of, 22:5945
Pu—Th—U, properties of, as fast power-breeder fuels, 21:32875
Pu—Th—U, radiation effects on fast reactor fuels of, 21:11190 (ANL-7155, pp 1-166)
Pu—Th—U, radiation effects testing in EBR-II, 21:7856(R) (ANL-7255)
Pu—Th—U, radiation testing of fuel capsules of, 21:40694 (ANL-7349, pp 92-109)
Pu—Th—U, radiation testing of pin shaped, 24:7371
Pu—Th—U, thermal conductivity at 300, 600, and 800°C, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
Pu—Th-base, magnetic susceptibility at 100 to 300°K, 25:47680
Pu—Th-base, mechanical and physical properties of, 22:4728 (BMI-X-455(Pt.1))
Pu—Th-base, radiation effects on length of plutonium-238-enriched dilute α-, self-, 25:11468
Pu—Th-base—U, compatibility with fuel claddings at 650°C, 24:23496 (ANL-7259)
Pu—Th-base—U, microstructure of, 24:23496 (ANL-7259)
Pu—Th-base—U, properties of, mechanical, physical, and thermal, 24:23496 (ANL-7259)
Pu—Th-base—U, radiation effects on swelling of, 24:23496 (ANL-7259)
Pu—Th-base—U, radiation effects on swelling of clad fuel pins of, in-pile, 24:25749 (ANL-7417, pp 37)
Pu—Th-base—U, radioinduced swelling of, effects of cladding on, 22:43520 (ANL-7299, pp 138-43)
Pu—Th-base—U, thermal conductivity at 100 to 800°C, 22:43520 (ANL-7299, pp 138-43)
Pu—Ti, phase diagrams of, 21:32918
Pu—Ti, phase diagrams of, 21:45937
Pu—Ti, phase equilibria of, effects of high pressure and temperature on, 21:6834
Pu—Ti, phase studies of, 25:11429 (CEA-CONF-1687)
Pu—Ti, phase studies of, 22:2655
Pu—Ti, phase transformations in, 21:24784
Pu—Ti, reactions of, kinetics of solid-state, 22:2633
Pu—Ti—U, analysis for titanium by anion exchange chromatography, 21:25788
Pu—Ti—U, burnup of sodium-cooled fast reactor fuel of, analysis of, 22:18511
Pu—Ti—U, combustion of, induction of self-sustaining or propagating, 21:25935(R) (ANL-7225)
Pu—Ti—U, compatibility with cladding materials, 21:33009
Pu—Ti—U, corrosion resistance of, 21:32877
Pu—Ti—U, fabrication, properties, and structure of, for use as fast reactor fuel elements, 21:11190 (ANL-7155, pp 1-166)
Pu—Ti—U, fuel burnup in EBR-2 of, analysis of, 23:4236
Pu—Ti—U, irradiation behavior in high-burnup prototype fuel elements, 23:11350 (ANL-7388)
Pu—Ti—U, irradiation testing of fuel rods of, 21:12231(R) (ANL-7267)
Pu—Ti—U, phase studies, 22:43627 (ANL-7299, pp 14-113)
Pu—Ti—U, phase studies, 21:30216
Pu—Ti—U, properties of, 21:32876
Pu—Ti—U, properties of, 21:15796

Pu—Ti—U, properties of, as fast power-breeder fuels, 21:32875
Pu—Ti—U, radiation effects on, 21:32938
Pu—Ti—U, radiation effects on, 21:33009
Pu—Ti—U, radiation effects testing in EBR-II, 21:7856(R) (ANL-7255)
Pu—Ti—U, thermal conductivity at 100 to 900°C, 21:30216
Pu—Ti—U—V, cladding penetration by, 21:20466
Pu—Ti—U-base, compatibility with stainless steel and vanadium-base alloys at high temperatures, 22:43627 (ANL-7299, pp 14-113)
Pu—Ti—U-base, penetration by liquid, into stainless steel and vanadium-base fuel cladding, 22:43526 (ANL-7299, pp 114-19)
Pu—Ti—U-base, preparation and properties of, for fast reactor fuels, 23:8141
Pu—Ti—U-base, thermal capacity and content at 25 to 1150°C, 22:43627 (ANL-7299, pp 14-113)
Pu—Ti-base, magnetic susceptibility at 100 to 300°K, 25:47680
Pu—Ti-base, plutonium distribution in dilute, effects of β and α phase transformation and oxygen content on, 25:11431 (CEA-CONF-1691)
Pu—Ti-base, plutonium segregation in, effects of anneal temperature, cooling rate, and oxygen on, 25:4790
Pu—Tl, phase studies of, 22:2655
Pu—Tm, analysis of, for thulium by x-ray fluorescence spectrometry, 21:1244 (LA-3549)
Pu—Tm, casting of, on multikilogram scale, method for, 21:11198 (LA-3621)
Pu—Tm, phase studies of, at 700 to 1000°C, 21:11215 (LA-3623)
Pu—transition metal, phase studies of, 24:32439
Pu—U, analysis by mass spectrometric isotope dilution, isotopic, 24:2134
Pu—U, analysis for impurities, spectrographic, 22:21645(R) (BMI-1826)
Pu—U, analysis for plutonium by α counting, 24:5600 (AERE-R-6163)
Pu—U, analysis for plutonium by α spectrometry, 25:42118(P)
Pu—U, analysis for uranium by ferrous ion reduction in phosphoric acid and titration, 24:26907(R) (NBL-250)
Pu—U, analysis of irradiated fuels of, for neodymium by isotope dilution and mass spectrometry, 24:36143 (CEA-N-1241, pp 3-83)
Pu—U, analysis of irradiated fully enriched, for plutonium, 23:7 (IN-1203, pp 52-61)
Pu—U, analysis of solutions of, for uranium after ferrous ion reduction in phosphoric acid, methods for automatic and manual titrimetric, 24:38712 (NBL-252)
Pu—U, burnup of, hot cells for study of, 22:4417
Pu—U, densities of liquid, effects of temperature on, 22:2612(R) (MLM-1402)
Pu—U, density of liquid, 21:36863(R) (MLM-1347)
Pu—U, determination in plutonium carbide—uranium carbide fuels by metallography, 23:6717
Pu—U, development for fast reactor fuels, 21:23659
Pu—U, diffusion of plutonium and uranium in, at 400 to 550°C, 22:52164(T) (RFP-Trans-52)
Pu—U, diffusion of plutonium in, 21:32878
Pu—U, diffusion of plutonium in, at 500°C, effects of nickel on, 25:19230 (CEA-R-3951)
Pu—U, diffusion of plutonium in, at 500°C, effects of gallium on, 25:19230 (CEA-R-3951)
Pu—U, fabrication and properties of, for use as fuel in fast reactors, 21:11191 (CONF-661003-13)
Pu—U, fabrication into fuel rods, use of furnace in caisson for, 21:3466 (EURAEC-1521)
Pu—U, fabrication of clad rods of, for critical and oscillation experiments, 21:11203
Pu—U, fission gas release in high burnup, 21:8152
Pu—U, fuel burnup in graphite and heavy water moderated lattices of, computer analysis of, (E/T), 22:22832
Pu—U, fuel element preparation from, process for, 21:6870(P)
Pu—U, hardness of, 22:2632
Pu—U, irradiation testing of fuel rods of, 21:13946(R) (ANL-7279)
Pu—U, irradiation testing of fuel rods of, 21:13947(R) (ANL-7286)
Pu—U, mechanical properties of, summary of, 22:2632
Pu—U, neutron absorption and production in, equivalent sample method for oscillation experiments on, 25:34402 (CEA-R-4152)
Pu—U, neutron buckling and spectra of graphite-moderated lattices of, 21:8065
Pu—U, neutron capture and fission cross sections for, (T), 21:7674
Pu—U, neutron flux perturbation in single fuel elements of, method for calculation of, 22:1874
Pu—U, phase diagram, 23:10220 (ANL-7258)
Pu—U, phase diagrams and properties, 22:36495
Pu—U, phase diagrams of, 21:45937
Pu—U, phase equilibria of, effects of zirconium on, 22:2612(R) (MLM-1402)
Pu—U, phase studies of, 21:32916
Pu—U, phase studies of, 22:2655
Pu—U, phase studies of segregation in fuels of, 21:25935(R) (ANL-7225)
Pu—U, physical properties of, 22:2627
Pu—U, physics calculations for thermal reactor fuels, (E/T), 25:18135 (EUR-4477)
Pu—U, physics parameters of core and blanket of fast breeder reactor, calculation of, (T), 22:47052
Pu—U, preparation of solutions of irradiated and reconstituted fuels of, for analysis, 22:25236 (CEA-N-616, pp 20-71)
Pu—U, processing of, computer program for data reduction and flowsheet calculation for, 21:3142 (ANL-7197)
Pu—U, properties of, effects of additives on, 21:32877
Pu—U, radiation effects on fuels of, review on, 22:8804
Pu—U, radiation effects on swelling in, evaluation of neutron, 23:11353 (BNWL-919, pp 9.1-13)
Pu—U, reactions of, kinetics of solid-state, 22:2633
Pu—U, reactions with alkali metal fluorides at 700 to 1300°C, 23:38081
Pu—U, reactions with hydrocarbons, 21:36073(R) (ANL-7350)
Pu—U, reactions with hydrogen—methane mixtures at 750°C, thermobalance studies on, 21:45068 (ANL-7325, pp 99-135)
Pu—U, separation of plutonium from, by extraction using molten calcium fluoride—lithium fluoride, 25:237
Pu—U, separation of plutonium from, by molten salt extraction, 21:12505
Pu—U, solubility in nitric acid—TBP, equilibrium studies on, 23:11602 (NP-17739)
Pu—U, viscosity as a function of reciprocal temperature, 22:2612(R) (MLM-1402)
Pu—U, viscosity as function of composition, 22:2612(R) (MLM-1402)
Pu—U, viscosity of liquid, 21:36863(R) (MLM-1347)
Pu—U—Zr, analysis of irradiated fuels of, for technetium, 22:22653(R) (ANL-7419)
Pu—U—Zr, burnup of sodium-cooled fast reactor fuel of, analysis of, 22:18511
Pu—U—Zr, cladding penetration by, 21:20466
Pu—U—Zr, compatibility with chromium—titanium—vanadium alloy cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with cladding materials, 21:33009
Pu—U—Zr, compatibility with cladding materials, 21:20466
Pu—U—Zr, compatibility with Hastelloy X cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with Haynes 56 cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with Incoloy 800 cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with nickel-base alloy N-155 cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with Timken and Type 304 stainless steel cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, compatibility with titanium—vanadium alloy cladding at 700, 750, and 800°C, 23:10162
Pu—U—Zr, corrosion resistance of, 21:32877
Pu—U—Zr, fabrication and properties of, for use as fuel in fast reactors, 21:11191 (CONF-661003-13)
Pu—U—Zr, fabrication of fuel rods of, 21:11190 (ANL-7155, pp 1-166)
Pu—U—Zr, fabrication, properties, and structure of, for use as fast reactor fuel elements, 21:11190 (ANL-7155, pp 1-166)
Pu—U—Zr, fuel burnup in EBR-2 of, analysis of, 23:4236
Pu—U—Zr, fuel element performance in EBR-II, 21:38487
Pu—U—Zr, irradiation behavior in high-burnup prototype fuel elements, 23:11350 (ANL-7388)
Pu—U—Zr, irradiation testing of fuel rods of, 21:12231(R) (ANL-7267)
Pu—U—Zr, oxygen content of, electrolytic etch method for estimation of, 24:25667
Pu—U—Zr, performance of driver fuels of, analysis of FTR optimum, 22:27458 (BNWL-514)
Pu—U—Zr, phase diagram, 22:31385
Pu—U—Zr, phase diagrams at 500 to 700°C, isothermal, 25:11442
Pu—U—Zr, phase equilibria of, 22:2612(R) (MLM-1402)
Pu—U—Zr, phase studies, 22:34065(R) (MLM-1445)
Pu—U—Zr, phase studies, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
Pu—U—Zr, phase studies on, 21:22888(R) (MLM-1346)
Pu—U—Zr, phase studies on, 24:25632 (ANL-7417, pp 3-22)
Pu—U—Zr, phase-equilibrium states for, measurement of, 22:30386
Pu—U—Zr, phases of solid-solution reactions of, 22:43627 (ANL-7299, pp 14-113)
Pu—U—Zr, power performance of fuels of, analysis of optimum, 22:46928 (WASH-1106)
Pu—U—Zr, preparation of, metallographic method for, 24:25667
Pu—U—Zr, properties for use as reactor fuel, 21:15796
Pu—U—Zr, properties of, 21:32876
Pu—U—Zr, properties of, as fast power-breeder fuels, 21:32875
Pu—U—Zr, radiation effects on, 22:16265(R) (ANL-7403)
Pu—U—Zr, radiation effects on, 21:33009
Pu—U—Zr, radiation effects on, 22:7788(R) (ANL-7382)
Pu—U—Zr, radiation effects on metal clad fuel elements of, 21:21755(R) (ANL-7302)
Pu—U—Zr, radiation effects on swelling of metal clad, measurement of fast neutron, 24:22403 (ANL-7602)
Pu—U—Zr, radiation effects on, postirradiation analyses of, 22:12006(R) (ANL-7399)
Pu—U—Zr, radiation effects testing in EBR-II, 21:7856(R) (ANL-7255)
Pu—U—Zr, radiation testing of EBR-2 fuel elements of, 24:7186
Pu—U—Zr, thermal conductivity at 100 to 900°C, 21:30216
Pu—U—Zr, thermal conductivity of, from 100 to 800°C, 21:20466
Pu—U—Zr-base, radiation effects on injection-cast, 21:30093(R) (ANL-7317)
Pu—U—Zr-base, radiation effects on swelling of, data tabulations on in-pile, 23:46089 (BNWL-1144, pp 9.1-9)
Pu—U-base, diffusion at 410 to 640°C in, 22:49710 (CEA-R-3439)
Pu—U-base, enthalpy and thermal capacity of, 22:19538
Pu—U-base, radiation effects on length of plutonium-238-enriched dilute α-, self-, 25:11468
Pu—U-base, radiation effects on swelling of, data tabulations on in-pile, 23:46089 (BNWL-1144, pp 9.1-9)
Pu—U-base—Zr, compatibility with potential cladding materials, review on, 24:25632 (ANL-7417, pp 3-22)
Pu—U-base—Zr, compatibility with stainless steel and vanadium-base cladding materials at high temperatures, 22:43627 (ANL-7299, pp 14-113)
Pu—U-base—Zr, enthalpy and thermal capacity of, 22:19538
Pu—U-base—Zr, fabrication of fuel pins of, methods development, 22:43627 (ANL-7299, pp 14-113)
Pu—U-base—Zr, fabrication of stainless steel-clad fuels of, for irradiation testing, 24:25632 (ANL-7417, pp 3-22)
Pu—U-base—Zr, fuel elements for EBR-II, irradiation of, 21:31898(R) (ANL-7329)
Pu—U-base—Zr, penetration by liquid, into stainless steel and vanadium-base fuel cladding, 22:43526 (ANL-7299, pp 114-19)
Pu—U-base—Zr, performance as fast test reactor driver fuel, (E/T), 21:27826 (BNWL-SA-1042-S(Rev.A))
Pu—U-base—Zr, preparation and properties of, for fast reactor fuels, 23:8141
Pu—U-base—Zr, preparation of high-purity, by inductive melting and stirring, 25:6841 (LA-4512)
Pu—U-base—Zr, properties of cast, mechanical and thermal, 25:6841 (LA-4512)
Pu—U-base—Zr, radiation effects on clad fuel elements of, in-pile, 23:10240
Pu—U-base—Zr, radiation effects on clad fuels of, at 4 at. percent burnup, 24:25632 (ANL-7417, pp 3-22)
Pu—U-base—Zr, radiation effects on clad, at 4.7 to 5.1 at. percent burnup, 22:43627 (ANL-7299, pp 14-113)
Pu—U-base—Zr, thermal capacity and content at 25 to 1150°C, 22:43627 (ANL-7299, pp 14-113)
Pu—U-base—Zr, thermal properties of, 21:7856(R) (ANL-7255)
Pu—UO_2, fuel recycle-calculation methods, evaluation of, 21:38480
Pu—UO_2, preparation of fast reactor fuels of, sol-gel process for, 21:30437(R) (BAW-3714-3)
Pu—V, analysis for vanadium, spectrophotometric, 22:14421 (LA-3843)
Pu—V, phase diagrams and properties, 22:36495
Pu—V, phase diagrams of, 21:45937
Pu—V, phase studies of, 22:2655
Pu—W, phase diagrams and properties, 22:36495
Pu—W, phase diagrams of, 21:45937
Pu—W, phase studies of, 22:2655
Pu—Y, phase diagrams, 21:32918
Pu—Y, phase studies of, 22:2655
Pu—Y-base, magnetic susceptibility at 100 to 300°K, 25:47680
Pu—Zn, crystal structure of intermetallic Pu_3Zn/sub approximately 9/ in, 21:41608
Pu—Zn, crystals structure of intermetallic Pu_3Zn_{22}, 22:38581
Pu—Zn, fuel elements of, 21:40716(P)
Pu—Zn, intermetallic compounds of, 21:31047
Pu—Zn, phase diagrams, 21:31047
Pu—Zn, phase diagrams of, 21:45937
Pu—Zn, phase studies of, 22:2655
Pu—Zn, physical properties of, 22:2627
Pu—Zn, properties of aerosols produced by combustion or vaporization of, 23:46010
Pu—Zr, crystal structure and composition of theta phase in, 21:6829
Pu—Zr, diffusion and Kirkendall effect in bcc phase of, 24:14749
Pu—Zr, diffusion at 650 to 900°C, effects of plutonium concentration on, 23:10186 (CEA-R-3573)
Pu—Zr, diffusion in hexagonal phase of, 21:39627
Pu—Zr, diffusion in, effects phase transformations on, 22:4796 (CEA-R-3275)
Pu—Zr, fuel element design using, as removable wire in center of urania, 21:15807(P)
Pu—Zr, hardness of, 22:2632
Pu—Zr, mechanical properties of, summary of, 22:2632
Pu—Zr, metallurgical properties of reactor fuels of, data sheets for, 21:35777 (MLM-1387(Suppl.)(Del.1))
Pu—Zr, phase diagram of arc cast and heat treated, 25:11439
Pu—Zr, phase diagram of, analysis of equilibrium, 22:52197 (BNWL-402)
Pu—Zr, phase diagrams, 23:22573
Pu—Zr, phase diagrams and properties, 22:36495
Pu—Zr, phase diagrams of, 23:27107(T) (LA-tr-69-2)
Pu—Zr, phase diagrams of, 21:32918
Pu—Zr, phase diagrams of, 21:45937
Pu—Zr, phase studies of, 21:32916
Pu—Zr, phase studies of, 22:2655
Pu—Zr, phase studies of intermetallic $PuZr_2$, 21:45948
Pu—Zr, phase transformations in, during quenching, effects of composition and cooling rate on epsilon, 25:55528
Pu—Zr, properties of heat sources of plutonium-238-containing, data sheets for, 23:4781 (MLM-1564)
Pu—Zr, properties of isotopic fuel forms of, tabulation of, 24:7483 (MLM-1691)
Pu—Zr, properties of plutonium-238-enriched, for use as heat source, 24:22887
Pu—Zr, properties of, data sheets on, 22:8724 (MLM-1441)
Pu—Zr, radiation effects on fuels of, review on, 22:8804
Pu—Zr, reactions of, kinetics of solid-state, 22:2633
Pu—Zr-base, electric conductivity at low temperatures, Kondo minimum in, 24:45358
Pu—Zr-base, magnetic susceptibility at 100 to 300°K, 25:47680
Pu—Zr-base, plutonium distribution in dilute, effects of β and α phase transformation and oxygen content on, 25:11431 (CEA-CONF-1691)
Pu—Zr-base, plutonium segregation in, effects of anneal temperature, cooling rate, and oxygen on, 25:4790

Pu—Zr-base, transformation processes in dilute, segregation during martensitic, 25:11430 (CEA-CONF-1688)
Pu-base—Ta, phase transformations in sputtered, unusual, 25:11447
Pu-base—Th—U, phase studies, 21:30216
Pu-base—Ti, diffusion of plutonium in dilute, at 0 to 20 kilobars, 25:650 (CEA-CONF-1635)
Pu-base—Ti, stability of β phase in, effects of heat treatments on, 25:2739
Pu-base—U, density and viscosity of liquid, at 620 to 900°C, 25:16466
Pu-base—U, thermal-expansion characteristics, 21:20466
Pu-base—Zr, crystal structure of zeta phase of, 24:19456 (LA-4367)
Pu-base—Zr, diffusion in delta phase of, at 351 to 475°C, 24:19440
Pu-base—Zr, diffusion of plutonium in dilute, at 0 to 20 kilobars, 25:650 (CEA-CONF-1635)
PuO_2—UO_2, design parameters of reactors fueled with, effects of coolant properties on optimum, 23:23896 (EURFNR-615)
U—Pu—U, phase studies on, 24:10185

PLUTONIUM ALUMINATES
crystal structure of, powder-diffraction studies of, 21:32915

PLUTONIUM ARSENIDES
crystal structure of, 22:37720
preparation, crystal structure, and melting points of, 22:8061
preparation, properties, and reactions of, review of, 22:2089

PLUTONIUM BORIDES
phase diagrams of, 21:45937
preparation of, 21:45993(P)
preparation, properties, and phase relation of, review of, 22:2699
properties as high-temperature reactor fuel, 23:30169

PLUTONIUM BROMIDES
complexes of, preparation and spectra of, 22:30542
complexes with acetonitrile, preparation, properties, spectra, and structure of, 24:16510
complexes with hexamethylphosphoric triamide and triphenylphosphine oxide, preparation and properties of, 22:37722
crystal structure of, temperature coefficients and interionic distances in, 25:20995
preparation of anhydrous, by dehydration of hexahydrates, 22:45046
spectra of gaseous, absorption, 21:42959
structure of anhydrous, crystal and molecular, 22:45046

PLUTONIUM BROMIDES $PuBr_4$
complexes with hexamethylphosphoric triamide and triphenylphosphine oxide, preparation, properties, spectra, and structure of, 24:16527

PLUTONIUM CARBIDE NITRIDES
production by reactions of ammonia with plutonium and plutonium carbide, 22:17165(P)

PLUTONIUM CARBIDES
alpha reactions (α,n) in, Hauser—Feshbach calculation of neutron spectra for, (T), 25:59708 (BNWL-B-109)
analysis of, for uncombined carbon, gravimetric, 21:5754 (LA-3603)
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
crystal structure and phases of multicomponent complex, data tabulations on, 23:36265
crystal structure of, 22:31505
crystal structure of, 22:23007 (UJV-1832)
crystal structure of plutonium-240-enriched, 24:21440
crystal structure of room temperature Pu_2C_3, neutron diffraction determination of, 22:27487(R) (LA-3880)
Debye temperature calculation for, 24:8195
degasification of, after storage in various atmospheres, 21:3010 (AERE-M-1593)
densification of pellets of, method using electric current and pressure for, 24:8176(P)
density of sintered, 23:34087
density of, effects of addition of nickel on, 21:32960
electric conductivity and thermoelectric power at 298 to 1000°K, 22:43631 (ANL-7299, pp 120-37)
electric conductivity of, 22:26085
electric properties and electronic configuration at 300 to 1000°K of, 21:13631
enthalpy of formation of, 24:43990 (ANL-7650, pp 23-34)
enthalpy of formation of, 23:26209 (ANL-7550, pp 35-73)
enthalpy of formation of, 25:39470(R) (ANL-7750)
enthalpy of formation of, 24:50439(R) (ANL-7675)
enthalpy of formation of arc-melted, 24:51213
entropy of, 23:39040(T) (KFK-tr-281)
entropy of, 25:29942(T) (LA-tr-71-22)
entropy of $PuC_{0.81}$ at 298°K, 25:11493
equations of state at 0 to 16,000°K, caloric and thermal, 25:13753
extrusion through graphite dies at 1600 to 2400°C, process for, 22:8811(P)
fabrication of fuel elements of, methods for, 22:8816(P)
fabrication of kernels of, powder agglomeration and sol-gel methods for, 24:44757 (DP-Report-404)
fabrication of metal-reinforced fuel elements of, 21:11289(P)
fabrication of, effects of nickel on, 21:43577
formation of, heat of, 23:39040(T) (KFK-tr-281)
formation of, heat of, 25:29942(T) (LA-tr-71-22)
hydrogenation of, crystal and molecular structure of products from, 25:40102 (CEA-R-4065)
magnetic ordering in plutonium-240-enriched, 24:21440
magnetic properties of, 24:25725 (ANL-7417, pp 85-104)
magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
magnetic susceptibility of, 21:11208 (ANL-7155, pp 167-289)
magnetic susceptibility of Pu_2C_3 between 4 and 1000°K, (E), 23:39572
magnetic susceptibility of, at 5 to 400°K, 21:32873
magnetic transition in, determination of low temperature, 21:46003
mechanical properties at high temperatures, 24:6270
mechanical properties of, review of, 25:2785 (LA-4452)
melting behavior of, analysis up to 1660°C of, 22:50841(R) (LA-3993)
neutron yields from, compared with plutonium oxides, 25:39562(R) (HEDL-TME-71-55)
nuclear parameters of fast reactor fuels of, average, 21:27713
performance and properties of ceramic fuels of, 21:43651
performance characteristics of fuels of, 23:43120
phase diagrams of, 21:45937
physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
physical properties of reactor fuels of, 22:17113 (JAERI-1144)
preparation and fabrication of fuels of, review of UK experience on, 24:10152
preparation and high-temperature properties of substoichiometric, 22:43629(R) (LA-3933)
preparation and properties, 21:32960
preparation and properties of, review on, 24:44785 (LA-4415)
preparation by carbothermic conversion of sol-gel-produced oxide microspheres, 24:30022 (CONF-700502-, pp 434-47)
preparation by conversion of oxides, 22:36543 (ANL-7450, pp 39-74)
preparation by fluidized—bed technique, 22:24925(R) (ANL-7427)
preparation by metal—methane reaction, 22:36543 (ANL-7450, pp 39-74)
preparation by one-step spray process using uranyl nitrate and sugar, 24:6252
preparation by reaction of aluminum with plutonium halides, 22:8817(P)
preparation by reaction of plutonium halides with carbon and reducing metal, 22:23883(P)
preparation by sol-gel process, 24:1068 (ORNL-4422, pp 203-29)
preparation methods, 21:19496(R) (LA-3607)
preparation of, 21:15796
preparation of dense fuels of, by electric heating under high pressure, 23:36187(P)
preparation of dense fuels of, powder metallurgy method for, 23:51104(P)
preparation of fuels of, by sol-gel process, 24:14876(P)
preparation of microspheres of, method for, 24:42213(P)
preparation of oxygen-free, by reactions of powdered calcium hydride with carbide at 700°C, 23:36200(P)
preparation of PuC by reaction of Pu_2C_3 with hydrogen at 1000°C, 23:36199(P)
preparation of spherical particles of, design of equipment for, 23:10263(P)
preparation of, glove box design for, 21:6774
preparation of, review on, 23:24855 (JAERI-1172)
preparation, crystal structure, and melting points of, 22:8061
preparation, properties, and phase relation of, review of, 22:2699
preparation, properties, and reactions of, review of, 22:2089
processing of irradiated graphite-clad fuel elements of, 21:22080(P)
production and properties for use as reactor fuel, review of, 23:9262
production and properties of fuels of, 25:52468 (A/CONF.49/P-454)
production of fuels of, by carbothermic reduction of sol-gel oxide products, 24:30021 (CONF-700502-, pp 423-33)
production of spherical particles of, method for, 24:1073(P)
properties as fuel material, chemical research on, 22:25144
properties as high-temperature reactor fuel, 23:30169
properties of heat sources of plutonium-238-containing, data sheets for, 23:4781 (MLM-1564)
properties of isotopic fuel forms of, tabulations of, 24:7483 (MLM-1691)
properties of nonstoichiometric, electric and thermal, 25:11494
properties of, analysis of chemical, mechanical, and metallurgical, 24:38542(T) (EURFNR-722)
properties of, data sheets on, 22:8724 (MLM-1441)
properties of, effects of nickel on density, 21:43577
properties of, for use as fuels, 21:11190 (ANL-7155, pp 1-166)
properties of, literature survey on, 22:21759 (LA-3799)
pyrohydrolysis of, in steam at 700 to 1150 deg C, 21:3078(P)
radiation damage in, self, 21:19496(R) (LA-3607)
radiation effects on, 21:20466
radiation effects on fuels of, review on, 22:8804
radiation effects on lattice parameters of, self-induced, 21:32937
radiation effects on niobium-zirconium clad compacts of, at 1.2 to 6.9 at. per cent burnup, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
radiation effects on stainless steel clad compacts of, at 1.2 to 6.9 at. per cent burnup, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
radiation effects on, at high temperatures, 21:11190 (ANL-7155, pp 1-166)
radiation effects on, literature survey of in-pile, 22:21759 (LA-3799)
radiation testing of fuel capsules of, 21:40694 (ANL-7349, pp 92-109)
radiation testing of fuel rods of, 21:13946(R) (ANL-7279)
radiation testing of fuel rods of, 21:13947(R) (ANL-7286)
radioinduced swelling of, in-pile, 23:36284
reactions of Pu_2C_3 with hydrogen to produce PuC, 23:36199(P)
reactions with ammonia or plutonium nitride to produce plutonium carbonitride, 23:36182 (RFP-715)
reactions with ammonium and plutonium to produce plutonium carbonitride, 22:17165(P)
reactions with austenitic steels at 650 to 1050°C, 22:23852 (CEA-R-3353)
reactions with nitrogen at 400°C, 23:18272(T) (ORNL-tr-3019)
reactions with nitrogen at 400°C, 22:52259 (CEA-R-3536)
sintering process for production of high density compacts at temperatures below 1700°C, 22:745(P)
stabilization of fuel of, using chromium, 22:23840(P)
thermal capacity of $PuC_{0.81}$, at 10 to 375°K, 25:11493
thermal conductivity of, 22:26085
thermal conductivity of, effects of fission products, hydrogen, oxygen, porosity, and sintering on, 22:768 (LA-DC-9059)
thermal diffusivity at 500 to 1500°C, 23:6739
thermal diffusivity of, (E), 22:22653(R) (ANL-7419)
thermal diffusivity, analysis at 500 to 1500°C of, 22:48790
thermal expansion of carbon-saturated Pu_2C_3 and PuC_2 to 2500°C, 25:11513
thermodynamic potentials at 298, 500, 1000, and 2000°K, calculation of reduced, 21:18331
thermodynamic properties, 22:43646 (ANL-7299, pp 220-6)
thermodynamic properties of, 22:31508
thermodynamic properties of, 24:51204 (CEA-CONF-1588)
thermodynamic properties of, 21:25831
thermodynamic properties of, 21:11208 (ANL-7155, pp 167-289)
thermodynamic properties of, 22:23007 (UJV-1832)
thermodynamic properties of, 21:42729(R) (LA-3745)
thermodynamic properties of PuC and Pu_2C_3, 22:31463
thermodynamic properties of, design of cryostat for studying, 22:10204(R) (COO-1149-102)
thermodynamic properties of, mass-spectrometric studies of, 22:36543 (ANL-7450, pp 39-74)
thermodynamic properties of, review of, 21:39683 (LA-DC-8881)
thermodynamics and volatility of, 21:34957 (LA-DC-8012)
use for reactor fuels, 1967 summary of French research on, 23:4171 (NP-17597, pp 41-73)
vapor pressure of, 24:41257
vaporization of, 22:23007 (UJV-1832)
vaporization of, effects of oxygen on, 24:41257
volatilization of, mass spectrometric studies on, 24:43990 (ANL-7650, pp 23-34)
volatilization of, mass spectrometric studies on, 24:50439(R) (ANL-7675)
$Cr_{23}C_6$—PuC—UC, fabrication of pellets of, 23:12396(R) (WARD-3791-27)
Cr—PuC—ThC, fuels of, composition optimization for cladding compatability, 22:19642(P)
Cr—PuC—UC, fuels of, composition optimization for cladding compatability, 22:19642(P)
Fe—PuC—UC, analysis of, for iron, plutonium, and uranium, electrochemical, 21:8222
Mo—PuC—UC, radiation effects on performance of, in-pile, 25:47188
N—PuC—UC, phase diagram, 22:52259 (CEA-R-3536)
NbC—PuC, preparation of improved fuels of, 22:52251(P)
NbC—PuC—UC, preparation of improved fuels of, 22:52251(P)
NbC—PuC—UC, preparation of improved-creep fuels of, 23:14383(P)
NbC—PuC-base, preparation of improved-creep fuels of, 23:14383(P)
Pu_2C_3—U_2C_3, carburization by liquid sodium of stainless steel and Incoloy 800 clad, 24:7116 (UNC-5229)
Pu_2C_3—U_2C_3, compatibility with stainless steel at 800°C, 22:53463(R) (UNC-5217)
Pu_2C_3—U_2C_3, development of fuel elements of, with stainless steel and Incoloy-800 cladding, 24:7116 (UNC-5229)
Pu_2C_3—U_2C_3, fabrication and properties of, 21:26876(R) (LA-3686)
Pu_2C_3—U_2C_3, preparation by reactions of plutonium—uranium alloys with hydrogen—methane at 750°C, 21:45068 (ANL-7325, pp 99-135)
Pu_2C_3—U_2C_3, radiation effects on thermal properties and stress analysis of Type 304 stainless steel- and Incoloy 800-clad mixed, calculation of neutron, (T), 22:46923 (UNC-5219)
Pu_2C_3—U_2C_3, use as nuclear fuel for gas-cooled reactors, 21:6869(P)
Pu_2C_3—U_2C_3-base, preparation of mixed fuels of, 23:36204(P)
Pu—PuC, reactions with ammonia to produce plutonium carbonitride, 23:36182 (RFP-715)
PuC_2—ThC_2, fabrication of coated particle, 24:40886(R) (DP-Report-325)
PuC_2—ThC_2, fabrication of pyrolytic carbon- and pyrolytic carbon—silicon carbide-coated nonstoichiometric, 24:44758 (DP-Report-414)
PuC_2—ThC_2, radiation effects on pyrolytic carbon- and pyrolytic carbon—silicon carbide-coated nonstoichiometric, in-pile, 24:44758 (DP-Report-414)
PuC_2—UC_2, compatibility with stainless steels and nickel-base alloys, 21:32977
PuC_2—UC_2, fabrication and properties of, 21:26876(R) (LA-3686)
PuC_2—UC_2, mechanical properties of sintered and skull-cast, 21:32977
PuC_2—UC_2, phase diagram of, differential thermal analysis of pseudobinary, 25:11522
PuC_2—UC_2, phase studies, 22:41122
PuC_2—UC_2, phase studies of isopleth and melting behavior for, 25:11523

PuC—Ru—UC, analysis for ruthenium, 22:7986 (AERE-R-5617)
PuC—TaC, phase relations and properties of, 22:2699
PuC—ThC, densification of pellets of, method using electric current and pressure for, 24:8176(P)
PuC—ThC, properties of, data manual on, 25:35548 (ORNL-4503(Vol.3))
PuC—ThC—UC, densification of pellets of, method using electric current and pressure for, 24:8176(P)
PuC—ThC—UC, preparation of dense fuels of, by electric heating under high pressure, 23:36187(P)
PuC—U, fabrication for reactor fuels, 23:22505
PuC—UC, analysis and metallography of fuels of, for EBR-II pins, 24:1104(R) (WARD-3791-40)
PuC—UC, analysis for carbide and metal phases in, by metallography, 23:6717
PuC—UC, analysis for carbon, nitrogen, and oxygen, 23:48509(R) (WARD-3791-36)
PuC—UC, analysis for plutonium and uranium by controlled-potential coulometric and potentiometric titrations, 25:8200 (LA-4537)
PuC—UC, analysis of high-density rods of, for EBR-II testing, 23:48576(R) (UNC-5244)
PuC—UC, analysis of irradiated, by electron microprobe method, 24:43935 (ANL-7650, pp 35-40)
PuC—UC, analysis of, electron probe micro-, 21:4479 (ANL-7125, pp 119-49)
PuC—UC, analysis of, techniques for x-ray diffractometric, 21:27896 (TRG-Report-1309)
PuC—UC, bonding of sodium to fuel elements of, method for, 21:22908(R) (WCAP-3791-2)
PuC—UC, burnup and performance of sodium-bonded, in-pile, 22:8807(R) (WCAP-3791-10)
PuC—UC, burnup behavior of fuels of, model for prediction of, 24:10212
PuC—UC, burnup of chromium-modified fuel pins of, relations with power, 22:38626(R) (WARD-3791-18)
PuC—UC, burnup of fast reactor fuels of, chemical state after, 24:5687
PuC—UC, burnup of fuel pins of, chemical analysis of, 22:7787 (AERE-R-5309)
PuC—UC, burnup of fuels of, calculation from flux-monitor wire data, 24:39598(R) (AI-AEC-12948)
PuC—UC, burnup of sodium-cooled fast reactor fuel of, analysis of, 22:18511
PuC—UC, burnup of, comparison of methods for determining, 21:20592 (CONF-660511-, pp 6.1.1-10)
PuC—UC, burnup of, effects of fuel density on, 22:30386
PuC—UC, carbon activities in FBR development program fuels of, 23:13500 (AI-AEC-12721, pp 255-60)
PuC—UC, carbon activity optimization in, research programs on, 23:22645 (AI-AEC-12744, pp 117-22)
PuC—UC, carburization by liquid sodium of stainless steel and Incoloy 800 clad, 24:7116 (UNC-5229)
PuC—UC, chemical properties of, 22:52257 (ANL-7425, pp 94-129)
PuC—UC, compatibility of fuel elements of, with sodium, 24:17209
PuC—UC, compatibility of fuels of, with chromium—titanium—vanadium alloy cladding at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with Hastelloy X cladding at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with Haynes 56 cladding at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with Inconel 625 at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with iron-base alloy cladding at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with titanium—vanadium alloys cladding at 800°C, 23:10245
PuC—UC, compatibility of fuels of, with Type 304 stainless steel cladding at 800°C, 23:10245
PuC—UC, compatibility of hyperstoichiometric fuels of, with Type 316L stainless steel at 900°C, 25:11475 (AERE-R-5173)
PuC—UC, compatibility of sodium bonded fuels of, with Type 316 stainless steel at 750°C, 22:43629(R) (LA-3933)
PuC—UC, compatibility of sodium-bonded fuels with cladding materials, 22:6138(R) (LA-3820)
PuC—UC, compatibility of sodium-bonded, with cladding materials, 22:27487(R) (LA-3880)
PuC—UC, compatibility of stabilized and unstabilized fuel pellets of, with stainless steel in helium and sodium at 800°C, 21:26894 (WCAP-3791-3)
PuC—UC, compatibility with austenitic and nickel-base cladding alloys at high temperatures, 22:31458
PuC—UC, compatibility with cladding in fast reactor fuel elements, (E), 25:48270
PuC—UC, compatibility with cladding materials at 700 to 800°C, 22:43627 (ANL-7299, pp 14-113)
PuC—UC, compatibility with Incoloy 800 and stainless steel cladding at 800°C, 22:4877
PuC—UC, compatibility with iron-, nickel-, and vanadium-base cladding at high temperatures, 24:25632 (ANL-7417, pp 3-22)
PuC—UC, compatibility with jacket materials, 21:31898(R) (ANL-7329)
PuC—UC, compatibility with jacketing materials, 22:9988(R) (ANL-7391)
PuC—UC, compatibility with nickel alloys and stainless steels in sodium-cooled fast reactors, 21:16666
PuC—UC, compatibility with nickel-base alloys and stainless steel, 24:32439
PuC—UC, compatibility with Nimonic 80A and PE 16 at 650 to 800°C, 23:38924 (TRG-Report-1835)
PuC—UC, compatibility with reactor structural materials, 21:15796
PuC—UC, compatibility with refractory metals at 1300 to 2100°C, 21:32948
PuC—UC, compatibility with stainless steel, 21:38488
PuC—UC, compatibility with stainless steel and vanadium alloy cladding at high temperatures, 24:1104(R) (WARD-3791-40)
PuC—UC, compatibility with stainless steel at 800°C, 22:53463(R) (UNC-5217)
PuC—UC, compatibility with stainless steel fuel cladding at reactor temperatures, 24:6247
PuC—UC, compatibility with stainless steel, effects of molybdenum on, 23:12267 (CEA-CONF-1031)
PuC—UC, compatibility with stainless steel, niobium, or vanadium cladding, 22:36509 (CONF-671005-7)
PuC—UC, compatibility with titanium—vanadium-base alloys at 800°C, 23:51039(R) (WARD-3791-38)
PuC—UC, compatibility with Type 316 stainless steel-cladding of sodium bonded, evaluation of, 22:50841(R) (LA-3993)
PuC—UC, compatibility with Type 316 stainless steel, effects of zirconium on, 24:36963 (CEA-R-3765(2))
PuC—UC, compatibility with Type 316L stainless steel, 21:32949
PuC—UC, compatibility with vanadium alloy cladding at 800°C, 24:19398(R) (WARD-3791-45)
PuC—UC, compatibility with vanadium-base alloys at 800°C under sodium bonding conditions, 25:6833 (TID-25599)
PuC—UC, compatibility with vanadium-base cladding at 800°C, 24:14708(R) (WARD-3791-42)
PuC—UC, corrosion by air at 22 to 30°C, effects of zirconium on, 24:36963 (CEA-R-3765(2))
PuC—UC, corrosion by flowing and static sodium at 700°C in 2200 hr exposures, 22:43629(R) (LA-3933)
PuC—UC, creep at high temperatures, effects of pressure on, 25:11485 (CEA-CONF-1670)
PuC—UC, creep at high temperatures, effects of pressure on, 25:38009(T) (ORNL-tr-2443)
PuC—UC, creep behavior of sintered, in vacuum at 950 to 1150°C, effects of stress on, 25:29960
PuC—UC, cycle management for conceptual 1000 MW(e) LMFBR, optimum economic, 24:7127
PuC—UC, densification of pellets of, method using electric current and pressure for, 24:8176(P)
PuC—UC, densities for fuel pellets of, effects of processing on, 22:21674(R) (WARD-3791-12)
PuC—UC, density of sintered, effects of carbon monoxide, nitrogen, and oxygen on, 23:8267 (CEA-R-3603)
PuC—UC, density of, effects of nickel on, 23:8267 (CEA-R-3603)
PuC—UC, design and fabrication of sodium-bonded clad fuel pins of, for testing in EBR-II, 24:25769 (WARD-3791-43)
PuC—UC, design of fuel elements of, for in-pile irradiation testing at linear power of 1500 W/cm, 24:25804(R) (UNC-5253)
PuC—UC, design parameters and safety analysis of NaK cooled fuel elements of, 24:36066 (KFK-1143)
PuC—UC, development for advanced power reactors, 21:23659
PuC—UC, development of fuel elements of, with stainless steel and Incoloy-800 cladding, 24:7116 (UNC-5229)
PuC—UC, diffusion of fission products from irradiated, into sodium, gamma spectral studies on, 21:26876(R) (LA-3686)
PuC—UC, distribution of plutonium in fuels of, 24:43990 (ANL-7650, pp 23-34)
PuC—UC, fabrication and irradiation testing of fuels of, 25:41364(T) (EURFNR-849)
PuC—UC, fabrication and properties of, 21:26876(R) (LA-3686)
PuC—UC, fabrication and properties of compacted, effects of refractory metal additions on, 22:43627 (ANL-7299, pp 14-113)
PuC—UC, fabrication and properties of fuels of, for fast reactors, 23:8349
PuC—UC, fabrication and properties of, for use as fuel in fast reactors, 21:11191 (CONF-661003-13)
PuC—UC, fabrication and properties of, for use as fast reactor fuels, 21:11190 (ANL-7155, pp 1-166)
PuC—UC, fabrication and properties of, for use as fast breeder reactor fuel element, 21:22908(R) (WCAP-3791-2)
PuC—UC, fabrication and structure of chromium carbide and iron stabilized fuel elements of, 21:22908(R) (WCAP-3791-2)
PuC—UC, fabrication and synthesis of, 21:42729(R) (LA-3745)
PuC—UC, fabrication and synthesis of, for fast reactor fuels, 23:8141
PuC—UC, fabrication and testing of EBR-2 fuel rods of, 23:15679(R) (UNC-5193)
PuC—UC, fabrication and testing of high-density fuel pellets of, 22:53463(R) (UNC-5217)
PuC—UC, fabrication and welding of irradiation test pins of, 22:21674(R) (WARD-3791-12)
PuC—UC, fabrication into EBR-II fuel pellets, process variables for, 24:1104(R) (WARD-3791-40)
PuC—UC, fabrication into sodium-bonded fuel pins for irradiation testing, 24:1103 (WARD-3791-16)
PuC—UC, fabrication of, 21:20466
PuC—UC, fabrication of chromium carbide-modified hyperstoichiometric and stoichiometric fuel pellets of, 23:36206
PuC—UC, fabrication of dense clad fuels from particulate, flowsheets for, 23:10256
PuC—UC, fabrication of fast breeder reactor fuel elements of, 21:7899 (UNC-5137)
PuC—UC, fabrication of fuel elements from powdered, process optimization for, 24:25632 (ANL-7417, pp 3-22)
PuC—UC, fabrication of fuel elements of, methods for, 22:8816(P)
PuC—UC, fabrication of fuel pellets of powdered, 24:17252
PuC—UC, fabrication of fuel rods of, for EBR-2, 24:18724(R) (UNC-5233)
PuC—UC, fabrication of fuel rods of, for EBR-2, 24:18726(R) (UNC-5248)
PuC—UC, fabrication of fuel rods of, for EBR-2, 24:18725(R) (UNC-5238)
PuC—UC, fabrication of fuels of, melting and casting procedures for, 23:1991(R) (AI-AEC-12680)
PuC—UC, fabrication of pellet-shaped, effects of techniques on quality, 22:50841(R) (LA-3993)
PuC—UC, fabrication of pellets from powders of, 21:12231(R) (ANL-7267)
PuC—UC, fabrication of pellets of, 23:12396(R) (WARD-3791-27)
PuC—UC, fabrication of pellets of, 22:36543 (ANL-7450, pp 39-74)
PuC—UC, fabrication of pellets of, for radiation effects testing in capsules, 24:1104(R) (WARD-3791-40)
PuC—UC, fabrication of pellets of, quality control for pilot plant process, 24:18725(R) (UNC-5238)
PuC—UC, fabrication of pellets of, quality control for pilot plant process, 24:18724(R) (UNC-5233)
PuC—UC, fabrication of powdered, by fluidized-bed technique, 21:13946(R) (ANL-7279)
PuC—UC, fabrication of powdered, into pellets for irradiation test rods, 21:42732 (UNC-5170)
PuC—UC, fabrication of pure single-phase solid-solution pellets of, 24:21413 (LA-4283)
PuC—UC, fabrication of sintered pellets of modified and unmodified, 24:25801
PuC—UC, fabrication of sodium bonded fuel pins of, equipment and procedures for, 24:29015 (LA-4393)
PuC—UC, fabrication of zirconium-containing, casting and sintering methods for, 24:36963 (CEA-R-3765(2))
PuC—UC, fabrication of, correlation between sinterability and particle size in, 21:20555
PuC—UC, fabrication of, description of, 23:4220(R) (UNC-5224)
PuC—UC, fabrication of, effects of binders and nickel on, 21:20555
PuC—UC, fabrication of, standardization of method for, 21:26876(R) (LA-3686)
PuC—UC, fission gas release and unrestrained swelling of irradiated, basic instrumented capsule for measurement of, 25:32808
PuC—UC, fission product diffusion from, post irradiation tests of, 21:30093(R) (ANL-7317)
PuC—UC, fission products diffusion from pelleted, in liquid sodium, 22:43629(R) (LA-3933)
PuC—UC, fuel burnup in EBR-2 of, analysis of, 23:4236
PuC—UC, fuel cycle costs for 1000 MW(e) LMFBR-type reactor, effects on optimum physics measurements of, 23:4256
PuC—UC, fuel cycle management for conceptual 1000 MW(e) Advanced Reactor and Reference Reactor LMFBR, analysis of optimum economic, 23:21486 (WCAP-3791-11)
PuC—UC, fuel element compatibility for liquid sodium-bonded, analysis of metal-clad, 22:39790(R) (UNC-5201)
PuC—UC, fuel element design with sodium bond for fast-breeder reactor, 21:38489
PuC—UC, fuel element fabrication of, quality control in pellet-type, 22:39790(R) (UNC-5201)
PuC—UC, fuel elements of design parameters of Fast Test Reactor 400 MW beryllium oxide (BeO)-moderated core pin-type, 23:11278 (BNWL-914)
PuC—UC, fuel elements of sodium bonded, evaluation of vented to coolant design for 1000 MW(e) LMFBR, 23:33054 (WARD-2000-31)
PuC—UC, fuel elements of, design parameters for optimum fast breeder power reactor, (E/T), 22:39810
PuC—UC, fuel elements of, for LMFBR-type assembly, 21:45977(R) (WCAP-3791-8)
PuC—UC, fuel elements, compatibility in fast reactors of vanadium alloy-cladding with, 23:4232
PuC—UC, fuel elements, compatibility in fast reactors of Type 304 stainless steel-cladding with, 23:4231
PuC—UC, fuel reload for LMFBR-type reactor, analysis of optimum, 23:4257
PuC—UC, fuels for FBR reactor, optimum casting and melting parameters for fabrication of, 23:13537 (AI-AEC-12721, pp 275-77)
PuC—UC, fuels for LMFBR-type reactors, development of optimum, 23:4237
PuC—UC, fuels of stainless steel- and Incoloy 800-clad, analysis of fast and thermal neutron radiation effects on pellet-type, 23:13505 (UNC-5225)
PuC—UC, fuels of, burnup of, 23:4238
PuC—UC, grain size and structure of, effects of carbowax content, sintering time, and temperature on, 23:24871(R) (WARD-3791-31)
PuC—UC, hardness of fuels of, at 400 to 500°C, 25:58344(R) (LA-4693)
PuC—UC, heat transfer in heterogeneous fuel elements of, effects of transients on, (T), 24:33331
PuC—UC, heat transfer in particle shaped, effects of reactor accident conditions on, 24:47877 (ANL-7610, pp 259-367)
PuC—UC, high temperature properties of, 22:27487(R) (LA-3880)
PuC—UC, inclusions in irradiated, occurrence of palladium—plutonium—rhodium—ruthenium—uranium, 25:16541
PuC—UC, integrity of stainless steel clad, effects of bubble size in sodium bonding on, 22:4910
PuC—UC, irradiation testing of fuel rods of, 21:13946(R) (ANL-7279)
PuC—UC, irradiation testing of fuel rods of, 21:13947(R) (ANL-7286)
PuC—UC, irradiation testing of powders of, 21:8151
PuC—UC, irradiation testing of, thermal and epithermal neutron-, 21:34973 (CEA-R-3223)
PuC—UC, loading into GETR irradiation pins, 22:38626(R) (WARD-3791-18)
PuC—UC, loading irradiation capsules with pellets of, facility for, 22:43629(R) (LA-3933)
PuC—UC, loading pellets of, into cladding tubes, (E), 22:8807(R) (WCAP-3791-10)
PuC—UC, magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
PuC—UC, mechanical properties at high temperatures, 24:6270

PuC—UC, melting and casting of, volatilization loss reduction by addition of argon cover gas in, 23:41698 (AI-AEC-Memo-12724)
PuC—UC, microstructure of clad fuel pins of, 24:1103 (WARD-3791-16)
PuC—UC, microstructure of EBR-II fuels of, 23:48509(R) (WARD-3791-36)
PuC—UC, microstructure of fuels of modified and unmodified, 24:25801
PuC—UC, microstructure of sintered, 23:34087
PuC—UC, microstructure of, effects of nickel on, 24:10152
PuC—UC, microstructure, method for characterizing, 21:26876(R) (LA-3686)
PuC—UC, particle size distribution in powders of, 23:12396(R) (WARD-3791-27)
PuC—UC, performance as breeder reactor fuels, 21:7941
PuC—UC, performance as fast test reactor driver fuel, (E/T), 21:27826 (BNWL-SA-1042-S(Rev.A))
PuC—UC, performance capability of fuels of, for fast breeder reactors, 25:32807
PuC—UC, performance of driver fuels of, analysis for FTR optimum, 22:27457 (BNWL-513)
PuC—UC, performance of fast breeder power reactor fuel elements of, effects of chloride vapor cooling and fused chloride bonding on, 24:13549 (EIR-167)
PuC—UC, performance potential as fast breeder reactor fuel, 22:30123 (BNWL-SA-1550)
PuC—UC, phase relations and properties of, 22:2699
PuC—UC, phase studies, 21:42729(R) (LA-3745)
PuC—UC, phase studies of, 25:58344(R) (LA-4693)
PuC—UC, physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
PuC—UC, physical properties of, 22:52257 (ANL-7425, pp 94-129)
PuC—UC, physical properties of fuels of modified and unmodified, 24:25801
PuC—UC, physics parameters for fuels of vanadium-clad, for 1000 MW(e) high-temperature gas-cooled fast breeder reactors, 23:11238 (EURFNR-580)
PuC—UC, physics parameters for Prototype Fast Reactor fuel of, analysis of, 22:18512
PuC—UC, physics parameters of core and blanket of fast breeder reactor, calculation of, (T), 22:47052
PuC—UC, plutonium distribution in pellets of, effects of annealing in thermal gradients on, 25:16597 (ANL-7703)
PuC—UC, plutonium vapor pressure over, at 1803 to 2083°K, 24:23503(R) (BMI-1879)
PuC—UC, power performance of, analysis of optimum, 22:46928 (WASH-1106)
PuC—UC, preparation and fabrication of fuels of, 24:6249
PuC—UC, preparation and fabrication of fuels of, review of UK experience on, 24:10152
PuC—UC, preparation and high-temperature properties, 22:43629(R) (LA-3933)
PuC—UC, preparation and properties of chromium carbide stabilized, 22:45806(R) (WARD-3791-21)
PuC—UC, preparation and properties of reactor fuels of, 22:6138(R) (LA-3820)
PuC—UC, preparation and properties of reactor fuels of, 23:48571(R) (EIR-146)
PuC—UC, preparation and properties of, for use as fast reactor fuel, 21:10162
PuC—UC, preparation and properties of, for use as fast reactor fuel, 23:1991(R) (AI-AEC-12680)
PuC—UC, preparation and properties of, review on, 23:20464
PuC—UC, preparation by a fluidized-bed process, 21:12231(R) (ANL-7267)
PuC—UC, preparation by carbothermic reduction of oxides in flowing nitrogen, feasibility of, 23:1034 (BMI-1845, Sect. A)
PuC—UC, preparation by carbothermic reduction of oxides in flowing argon, 21:32958
PuC—UC, preparation by fluid-bed reactions, 21:7856(R) (ANL-7255)
PuC—UC, preparation by fluidized-bed technique, 21:13947(R) (ANL-7286)
PuC—UC, preparation by hydrogen reduction method, 22:27487(R) (LA-3880)
PuC—UC, preparation by precipitation from plutonium nitrate—uranium nitrate using sucrose, 22:19609(R) (NYO-3713-3)
PuC—UC, preparation by reaction of metal with methane, thermodynamics of, 21:25935(R) (ANL-7225)
PuC—UC, preparation for reactor fuel, 21:6870(P)
PuC—UC, preparation in fluidized-bed reactor, 21:25935(R) (ANL-7225)
PuC—UC, preparation of, 21:15796
PuC—UC, preparation of, 22:52257 (ANL-7425, pp 94-129)
PuC—UC, preparation of 84 and 93 percent dense single-phase pellets of, 23:3117
PuC—UC, preparation of dense fuels of, method for, 24:6250
PuC—UC, preparation of dense microspheres and shards of, 25:2775 (ORNL-4572, pp 242-50)
PuC—UC, preparation of dense pellets of, 24:940(R) (AI-AEC-12817)
PuC—UC, preparation of fuel elements of, review of methods for, 24:2976
PuC—UC, preparation of fuel particles of, by carbothermic reduction of sol-gel oxides, 25:52419 (A/CONF.49/P-119)
PuC—UC, preparation of fuels of, by carbothermic reduction of mixed oxides, 24:36950(R) (EIR-171)
PuC—UC, preparation of fuels of, fluidized-bed process for, 22:25321 (ANL-7375, pp 95-134)
PuC—UC, preparation of fuels of, method for, 25:58163(R) (AI-AEC-12859)
PuC—UC, preparation of fuels of, review on, 24:44770
PuC—UC, preparation of hypo, hyper, and stoichiometric sintered, for electron microscopy, 21:30997 (LA-DC-8675)
PuC—UC, preparation of microspheres of, sol-gel process for, 24:30008 (CONF-700502-, pp 164-77)
PuC—UC, preparation of sintered high-density pellets of, 24:39725(R) (UNC-5259)
PuC—UC, preparation of sodium-bonded fuel elements of, effects of powder characteristics on, 23:48509(R) (WARD-3791-36)
PuC—UC, preparation of stoichiometric and hyperstoichiometric fuels of, effects of processing variables on, 23:24871(R) (WARD-3791-31)
PuC—UC, preparation of tungsten-modified, by carbothermic reduction of mixed component oxides, 25:58365 (AI-AEC-12983)
PuC—UC, preparation of uranium-235 enriched powders of, fluidized-bed process for, 24:175 (ANL-7575, pp 77-129)
PuC—UC, preparation of, by reaction of dioxide with graphite, 21:13250(P)
PuC—UC, preparation of, control of composition in, 24:21336(R) (AI-AEC-12913)
PuC—UC, preparation of, development of coprecipitation process for, 21:11278(R) (NYO-3713-2)
PuC—UC, preparation of, fluidized-bed process for, 21:45068 (ANL-7325, pp 99-135)
PuC—UC, preparation of, fluidized-bed process for, 21:20466
PuC—UC, preparation of, fluidized-bed technique for, 21:36073(R) (ANL-7350)
PuC—UC, preparation of, studies on fluidized-bed process for, 21:4479 (ANL-7125, pp 119-49)
PuC—UC, preparation processes of, large-scale, 21:31898(R) (ANL-7329)
PuC—UC, preparation, fabrication, and characterization of sintered single-phase pellets of, 25:47152
PuC—UC, processing of irradiated, from fast reactors, 21:10162
PuC—UC, production of fuels of, development of process for, 25:55590(R) (EIR-192)
PuC—UC, production of hyperstoichiometric and stoichiometric, flowsheet for, 24:1104(R) (WARD-3791-40)
PuC—UC, production of pellets of, (E), 22:8807(R) (WCAP-3791-10)
PuC—UC, production of pellets of, methods for, 22:38626(R) (WARD-3791-18)
PuC—UC, production of single-phase sintered, 23:8267 (CEA-R-3603)
PuC—UC, properties for driver fuels, neutronic, (E/T), 21:8082
PuC—UC, properties for use as fast reactor fuels, 24:48889
PuC—UC, properties for use as fast reactor fuels, review of, 25:24625 (BARC/I-61)
PuC—UC, properties of, 25:34354(T) (JPRS-53069, pp 215-24)
PuC—UC, properties of chromium carbide-modified fuel pellets of, 24:48885 (CONF-690954-, pp 130-46)
PuC—UC, properties of fuels of, 23:12396(R) (WARD-3791-27)
PuC—UC, properties of, analysis of chemical, mechanical, and metallurgical, 24:38542(T) (EURFNR-722)
PuC—UC, properties of, effects of titanium additions on, 21:32991
PuC—UC, properties of, effects of zirconium on mechanical and physical, 24:36963 (CEA-R-3765(2))
PuC—UC, properties of, electric and thermal, 25:11494
PuC—UC, properties of, methods for improving, 21:36928 (CEA-R-3229)
PuC—UC, radiation effects at 19,000 to 32,000 MWd/t, fast neutron, 22:4911
PuC—UC, radiation effects at 40,000 to 100,000 MWd/t, fast neutron, 23:8350
PuC—UC, radiation effects at 640°C on clad, in-pile, 22:4912
PuC—UC, radiation effects at high burnups, experiment design for, 21:1961 (UNC-5136)
PuC—UC, radiation effects measurements on, 22:24925(R) (ANL-7427)
PuC—UC, radiation effects of pellets of, fast and thermal neutron, 22:36509 (CONF-671005-7)
PuC—UC, radiation effects on, 21:33010
PuC—UC, radiation effects on behavior of Type 316 stainless steel-clad sodium-bonded fuels and fuel elements of, fast and thermal neutron, 25:32857
PuC—UC, radiation effects on chromium-modified sodium-bonded fuel pins of, in-pile, 24:10205
PuC—UC, radiation effects on clad, 21:7856(R) (ANL-7255)
PuC—UC, radiation effects on clad fuel elements of, at 40,000 MWd/t, 23:48576(R) (UNC-5244)
PuC—UC, radiation effects on clad fuel rods of, in-pile, 24:6289
PuC—UC, radiation effects on clad pellets of, at burnup of 50,000 to 100,000 MWd/t, in-pile, 24:19498(R) (UNC-5251)
PuC—UC, radiation effects on clad sodium bonded fuel elements of, in-pile, 22:45806(R) (WARD-3791-21)
PuC—UC, radiation effects on clad, at 5900 MWd/t burnup, 22:43629(R) (LA-3933)
PuC—UC, radiation effects on compacted, in-pile, 22:43627 (ANL-7299, pp 14-113)
PuC—UC, radiation effects on cracking of sodium-bonded Type 316 stainless steel-clad, thermal neutron, 25:4894
PuC—UC, radiation effects on EBR-2 driver fuel elements, analysis of neutron, 22:50841(R) (LA-3993)
PuC—UC, radiation effects on encapsulated fuels of, at high burnups, in-pile, 25:58344(R) (LA-4693)
PuC—UC, radiation effects on fast reactor fuels of, 21:11190 (ANL-7155, pp 1-166)
PuC—UC, radiation effects on fuel elements of, at 2500°C and linear power of 3000 W/cm, in-pile, 24:14964(T) (EURFNR-688)
PuC—UC, radiation effects on fuel elements of, in-pile, 21:16666
PuC—UC, radiation effects on fuel elements of, test preparations for, 21:30288(R) (WCAP-3791-4)
PuC—UC, radiation effects on fuels of, 21:30093(R) (ANL-7317)
PuC—UC, radiation effects on fuels of, 22:7788(R) (ANL-7382)
PuC—UC, radiation effects on fuels of, at 12,000 to 16,000 MWd/t burnup, in-pile, 24:14964(T) (EURFNR-688)
PuC—UC, radiation effects on fuels of, relations of linear power and temperature with fast neutron, 25:52472 (EUR-4347)
PuC—UC, radiation effects on fuels of, review on, 22:8804
PuC—UC, radiation effects on gas release and swelling of, in-pile, 24:10211
PuC—UC, radiation effects on helium bonding of Incoloy 800- and Type 316 stainless steel-clad fuel rods, to 65000 MWd/t burnup, 25:32858
PuC—UC, radiation effects on hydrolysis of, by hydrochloric acid and water, neutron, 24:2231
PuC—UC, radiation effects on hypostoichiometric sodium-bonded fuel pins of, in-pile, 24:10205
PuC—UC, radiation effects on Incoloy 800- and Type 316 stainless steel-clad fuel rods of, at 40 x 10^3 to 57 x 10^3 MWd/t burnup, 24:39725(R) (UNC-5259)
PuC—UC, radiation effects on Incoloy 800-clad fuel pellets of, in-pile, 25:4889(R) (UNC-5263)
PuC—UC, radiation effects on Inconel-clad fuel elements of, at 40 MWd/t x 10^{-3} burnup, 24:25804(R) (UNC-5253)
PuC—UC, radiation effects on iron-modified sodium-bonded fuel pins of, in-pile, 24:10205
PuC—UC, radiation effects on mechanical and physical properties of fast and thermal neutrons, 21:45977(R) (WCAP-3791-8)
PuC—UC, radiation effects on mechanical properties of, measurement of neutron, 23:45082(R) (GA-8787)
PuC—UC, radiation effects on metal-clad fuel elements of, 21:21755(R) (ANL-7302)
PuC—UC, radiation effects on niobium- and stainless steel-clad, at high burnups, 21:33011
PuC—UC, radiation effects on niobium-zirconium clad compacts of, at 1.2 to 6.9 at. per cent burnup, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
PuC—UC, radiation effects on performance of clad fuel elements of, in-pile, 23:36283
PuC—UC, radiation effects on performance of Nimonic-clad fuel pins of, in-pile, 23:10299
PuC—UC, radiation effects on performance of Type 316 stainless steel-clad sodium-bonded fuel pins of, relations of fuel additions and stoichiometry with in-pile, 25:32859
PuC—UC, radiation effects on performance of Type M 316 L stainless steel-clad fuel pins of, in-pile, 23:10299
PuC—UC, radiation effects on performance of, in-pile, 25:47188
PuC—UC, radiation effects on physical properties of metal-clad, analysis of fast neutron, 22:39790(R) (UNC-5201)
PuC—UC, radiation effects on physical properties of metal-clad helium-bonded, analysis of fast neutron, 22:39789 (UNC-5198)
PuC—UC, radiation effects on properties of, 23:48571(R) (EIR-146)
PuC—UC, radiation effects on properties of fuels of, review on, 24:44770
PuC—UC, radiation effects on sodium bonded stainless steel clad, (E), 25:34358 (LA-4669)
PuC—UC, radiation effects on sodium-bonded, 23:12396(R) (WARD-3791-27)
PuC—UC, radiation effects on sodium-bonded clad fuels of, in-pile, 25:4889(R) (UNC-5263)
PuC—UC, radiation effects on sodium-bonded fuel elements of, in-pile, 23:24871(R) (WARD-3791-31)
PuC—UC, radiation effects on stainless steel clad compacts of, at 1.2 to 6.9 at. per cent burnup, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
PuC—UC, radiation effects on stainless steel-clad pellets of, 21:33013
PuC—UC, radiation effects on stainless steel-clad fuel elements of, at MWd/t x 10^{-3} burnup, 24:25804(R) (UNC-5253)
PuC—UC, radiation effects on stainless steel-clad fuel pellets of, in-pile, 25:4889(R) (UNC-5263)
PuC—UC, radiation effects on swelling of, 24:18785 (CONF-690910-, pp 118-26)
PuC—UC, radiation effects on swelling of unrestrained pellets of, in-pile, 24:19498(R) (UNC-5251)
PuC—UC, radiation effects on thermal properties and stress analysis of Type 304 stainless steel- and Incoloy 800-clad, calculation of neutron, (T), 22:46923 (UNC-5219)
PuC—UC, radiation effects on void formation in fuels of, in-pile, 24:25804(R) (UNC-5253)
PuC—UC, radiation effects on, description of optical examination methods for neutron, 22:27497
PuC—UC, radiation effects on, literature survey of in-pile, 22:21759 (LA-3799)
PuC—UC, radiation testing of fuel capsules of, 21:40694 (ANL-7349, pp 92-109)
PuC—UC, radiation testing of fuel rods of, for EBR-2, 24:18726(R) (UNC-5248)
PuC—UC, radiation testing of fuel rods of, for EBR-2, 24:18725(R) (UNC-5238)
PuC—UC, radiation testing of fuel rods of, for EBR-2, 24:18724(R) (UNC-5233)
PuC—UC, radioinduced gas release and swelling in, factors affecting, 21:26925 (BMI-1799)
PuC—UC, radioinduced swelling of sodium-bonded fuels of, in-pile, 23:36285
PuC—UC, radioinduced swelling of, in-pile, 22:771
PuC—UC, radioinduced swelling of, in-pile, 23:36284
PuC—UC, reaction of, with cladding alloys, 21:12231(R) (ANL-7267)

PuC—UC, reactions at 800°C with cladding materials, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
PuC—UC, reactions of compacted, with heat-resisting alloy cladding materials at high temperatures, 21:42732 (UNC-5170)
PuC—UC, reactions of pellets of, with stainless steel cladding at high temperatures, 21:30288(R) (WCAP-3791-4)
PuC—UC, reactions of, with cladding materials, 21:11190 (ANL-7155, pp 1-166)
PuC—UC, reactions with cladding materials at high temperatures, 21:30093(R) (ANL-7317)
PuC—UC, reactions with methane, thermodynamics of, 22:25321 (ANL-7375, pp 95-134)
PuC—UC, reactions with titanium—vanadium alloys at 700°C, 21:21755(R) (ANL-7302)
PuC—UC, reactivity of fluidized-bed powder of, with helium atmosphere in glove box, 22:25321 (ANL-7375, pp 95-134)
PuC—UC, separation of plutonium from, 23:13839
PuC—UC, separation of rare earths from, by solvent extraction using tetrabutylammonium nitrate—nitropropane, 25:6258(R) (IN-1426)
PuC—UC, sintering of powdered, 21:12231(R) (ANL-7267)
PuC—UC, sodium removal from sodium-bonded stainless steel-clad, 23:412
PuC—UC, solubility in nitric acid, 25:241(P)
PuC—UC, specific power limits in liquid metal cooled fast breeder reactors, 25:31569 (ORNL-TM-3388)
PuC—UC, stability of chromium carbide- and iron-stabilized, at high temperatures, 21:30288(R) (WCAP-3791-4)
PuC—UC, swelling during irradiation in liquid metal cooled fast breeder reactors, limits for, 25:31569 (ORNL-TM-3388)
PuC—UC, temperature distribution in liquid sodium-cooled fast breeder reactor stainless steel-clad sodium-bonded fuels of, effects of stationary fission gas bubbles on, 23:15639 (CONF-680832-2)
PuC—UC, thermal conductivity at 50 to 1000°C, 24:6269
PuC—UC, thermal conductivity of, 22:768 (LA-DC-9059)
PuC—UC, thermal diffusivity at 50 to 2000°C, 23:24988 (CEA-CONF-1248)
PuC—UC, thermal diffusivity at 500 to 1500°C, 23:6739
PuC—UC, thermal diffusivity of arc-cast, at 500 to 2200°K, 25:29957
PuC—UC, thermal diffusivity of, (E), 22:22653(R) (ANL-7419)
PuC—UC, thermal diffusivity, analysis at 500 to 1500°C of, 22:48790
PuC—UC, thermal properties of, analysis at 1600 to 2500°C of, 22:50841(R) (LA-3993)
PuC—UC, thermodynamic properties of, 21:4479 (ANL-7125, pp 119-49)
PuC—UC, thermodynamic properties of, review on, 23:41534
PuC—UC, vaporization at 1803 to 2083°K, 25:6889 (BMI-1886, Sect. B)
PuC—UC, vaporization rates and thermodynamics of, 24:6267
PuC—UC$_2$, fabrication by skull arc melting, 21:32958
PuC—UC—UN, preparation for use as reactor fuel, 21:13248(P)
PuC—UC—W, preparation and properties of, 25:49549
PuC—UC-base, melting behavior of, 25:11507
PuC—UN, preparation, properties, and structure of, 21:1315 (CEA-R-2988)
PuC—ZrC, phase relations and properties of, 22:2699

PLUTONIUM CARBONATES
preparation, properties, and reactions of, review of, 22:2089
thermal decomposition at high temperatures, production of plutonium dioxide by, 23:37963

PLUTONIUM CARBONITRIDES
compatibility with stainless steel in sodium, 23:10246
preparation and properties of, 23:36182 (RFP-715)
preparation by carbothermic conversion of sol-gel-produced oxide microspheres, 24:30022 (CONF-700502-, pp 434-47)
preparation of, 21:18308(R) (BMI-1784)
production from plutonium oxides, process development for, 24:3004 (ORNL-4470, pp 76-84)
production of fuels of, by carbothermic reduction of sol-gel oxide products, 24:30021 (CONF-700502-, pp 423-33)
thermal diffusivity, 23:10246
PuCN—UCN, creep at high temperatures, effects of pressure on, 25:11485 (CEA-CONF-1670)
PuCN—UCN, elastic properties of, 25:2798
PuCN—UCN, fabrication by arc melting and casting for use as reactor fuels, 21:32951(R) (BMI-1798)
PuCN—UCN, fabrication by arc melting and casting for use as reactor fuels, 23:1034 (BMI-1845, Sect. A)
PuCN—UCN, fabrication by arc melting and casting for use as reactor fuels, 22:28777(R) (BMI-1837)
PuCN—UCN, fabrication of fuels of, by arc melting and casting, 21:20550(R) (BMI-1791)
PuCN—UCN, irradiation testing of, thermal and epithermal neutron-, 21:34973 (CEA-R-3223)
PuCN—UCN, preparation by arc melting and casting, 22:15261(R) (BMI-1819)
PuCN—UCN, preparation by casting and melting, 22:720 (BMI-1809, Sect.A)
PuCN—UCN, preparation for metallography, methods for, 24:8199 (CONF-670533-, pp 116-30)
PuCN—UCN, preparation of dense microspheres and shards, 25:2775 (ORNL-4572, pp 242-50)
PuCN—UCN, preparation of pellets of, by compacting and sintering mixed powders, 23:34076(P)
PuCN—UCN, preparation process development, 21:18308(R) (BMI-1784)
PuCN—UCN, radiation effects on creep of, relations of material parameters, stress, and temperature with in-pile and out-of-pile, 25:49566 (BMI-1906)
PuCN—UCN, radiation effects on fuels of, at 12,000 to 16,000 MWd/t burnup, in-pile, 24:14964(T) (EURFNR-688)
PuCN—UCN, radiation effects on fuels of, relations of linear power and temperature with fast neutron, 25:52472 (EUR-4347)
PuCN—UCN, radiation effects on fuels of, relations of linear power and temperature with fast neutron, 25:52472 (EUR-4347)
PuCN—UCN, radiation effects on performance of, in-pile, 25:47188
PuCN—UCN, radioinduced swelling of, in-pile, 22:771
PuCN—UCN, thermal diffusivity at 50 to 2000°C, 23:24988 (CEA-CONF-1248)

PLUTONIUM CHLORIDES
see also Cesium Plutonium Chlorides
chlorination of, thermodynamics of, 21:42959
complexes of, preparation and spectra of, 22:30542
performance as fuel in fused-salt breeder reactors, 21:23643
properties in molten lithium chloride—potassium chloride eutectic, chronopotentiometric studies on, 23:35053 (CEA-R-3793)
spectra of gaseous, absorption, 21:42959
thermodynamic properties of, 21:42729(R) (LA-3745)

PLUTONIUM CHLORIDES PuCl$_3$
analysis of solutions of, for free acids, titration method for, 24:16409(T) (AEC-tr-7141)
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
crystal structure of, temperature coefficients and interionic distances in, 25:20995
electrolysis in potassium chloride—sodium chloride eutectic, preparation of plutonium by, 22:25455 (CEA-N-616, pp 295-368)
properties for fuel in fast reactors, 21:40589
reactions with cyclic propylene ester of carbonic acid, composition and spectra of precipitates formed by, 24:20769
reduction to metal, 22:151
solubility in water, thermodynamics of, 22:4147
spectra of thin films of, at 4, 77, and 298°K, 24:50381
thermal capacity of hydrated, 23:10996(R) (COO-1716-6)
thermal expansion coefficients of, 21:4505
thermodynamic properties, 22:31463
volatilization in tube with temperature gradient, 24:25059
CaCl$_2$—KCl—MgCl$_2$—PuCl$_3$—UCl$_3$, properties as breeder fuel, 22:4130
KCl—NaCl—PuCl$_3$, distribution of americium between liquid plutonium and molten, 22:12290
KCl—NaCl—PuCl$_3$, plutonium equilibrium potential in, 22:42669
KCl—NaCl—PuCl$_3$, plutonium equilibrium potential in, thermodynamics for, 23:26221(T) (RFP-Trans-54)
KCl—NaCl—PuCl$_3$—UCl$_3$, fused, use as fast reactor fuel, 21:4420(P)
NaCl—PuCl$_3$, plutonium equilibrium potential in, 22:42669
NaCl—PuCl$_3$, plutonium equilibrium potential in, thermodynamics for, 23:26221(T) (RFP-Trans-54)
PuCl$_3$—UCl$_3$, phase diagrams of, 24:38816

PLUTONIUM CHLORIDES PuCl$_4$
complexes with dimethyl sulfoxide, stability, properties, and infrared spectra of, 22:16522
complexes with hexamethylphosphoric triamide and triphenylphosphine oxide, preparation, properties, spectra, and structure of, 24:16527
volatilization in tube with temperature gradient, 24:25059

PLUTONIUM CHLORIDES PuCl$_6$
complexes of, spectra of, absorption, 21:34244(R) (BNWL-228)

PLUTONIUM CITRATES
complexes of, in aqueous solutions, potentiometry of equilibrium of, 21:4496
sorption and metabolism in rats, effects of age on, 22:10675 (BNWL-480, pp 21-54)

PLUTONIUM DEUTERIDES
thermodynamic properties of, 21:25831

PLUTONIUM FERRICYANIDES
separation from aqueous solutions, methods for, 21:35895

PLUTONIUM FERROCYANIDES
separation from aqueous solutions, methods for, 21:35895

PLUTONIUM FLUORIDES
see also Ammonium Plutonium Fluorides
see also Cesium Plutonium Fluorides
see also Rubidium Plutonium Fluorides
analysis for oxygen, titrimetric method for, 23:40535 (CEA-N-1044, pp 3-50)
compounds with other metal fluorides, preparation of, 22:8186
determination by neutron counting in fluoride volatility process, 22:48811 (ANL-7402)
diffusion of heated powders of, in air, 22:37708 (BNWL-786)
dissociation of PuF$_6$ energy of, 22:50963
dissolution of, effects of fluoride complexing agents on, 24:2275
handling of, radiation protection of personnel in, 22:10321 (EURAEC-1938)
heating of, airborne particle release from, 22:43014 (BNWL-SA-1735)
preparation of capsules of plutonium-239-enriched, for small refueling additions to MSRE, 24:46308 (ORNL-4548, pp 277-333)
production and airborne release of particles of, in overheating accidents, 23:29020
reactions of, with alkali metal fluorides, crystal structure of compounds formed by, 21:10311 (KFK-431)
reactions to prepare oxides, 22:25470(T) (ANL-Trans-590)
reactions with ammonia at 750 to 1050°C, yields of plutonium nitrides from, 24:25034(P)
separation from aqueous solutions, methods for, 21:35895
separation from ruthenium fluoride by volatilization, 22:25443 (ANL-7375, pp 46-94)
solubility in beryllium fluoride—lithium fluoride—thorium fluoride salt mixtures, (E), 25:54100(R) (NP-18956)
solubility in beryllium fluoride—lithium fluoride—thorium fluoride salt mixtures, (E), 25:54099(R) (NP-18955)
sorption by metal fluorides, evaluation of candidate fluorides for, 22:30665
volatility of, 22:8169(R) (EURAEC-1934)

PLUTONIUM FLUORIDES PuF$_3$
capsules for plutonium-239-enriched, 25:2313 (ORNL-4572, pp 1-36)
chemical properties as fuel for molten-salt reactors, 23:19693 (ORNL-4344, pp 109-99)
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
crystal structure of, temperature coefficients and interionic distances in, 25:20995
free energy of formation of, 25:34566
free energy of formation of, 24:36205 (ORNL-4586, pp 1-32)
neutron emission from, 23:19819 (CONF-680610-, pp 42-50)
preparation by oxalate or oxide fluorination using dichlorodifluoromethane, 21:18227 (HW-30040)
preparation of capsules of plutonium-239-enriched, for small refueling additions to MSRE, 24:16625 (ORNL-4449, pp 214-47)
solubility in molten beryllium fluoride—lithium fluoride, 24:16625 (ORNL-4449, pp 214-47)
solubility in molten beryllium fluoride—lithium fluoride—thorium fluoride, effects of oxide on, 25:54532 (ORNL-4717, pp 1-27)
solubility of, analysis of, (T), 22:53282 (ORNL-TM-2256)
spectra in molten beryllium fluoride—lithium fluoride—thorium fluoride, effects of oxide on, 25:54532 (ORNL-4717, pp 1-27)
sublimation of, from 1243 to 1475°K, enthalpy and vapor pressure of, 22:50963
use as molten-salt reactor fuel, chemical feasibility of, 22:53282 (ORNL-TM-2256)
BeF$_2$—LiF—PuF$_3$, plutonium oxide precipitation in molten, equilibrated with beryllium oxide, 25:34566
BeF$_2$—LiF—PuF$_3$—ThF$_4$, plutonium oxide precipitation in molten, equilibrated with thorium oxide, 25:34566
BeF$_2$—LiF—PuF$_3$—ZrF$_4$, plutonium oxide precipitation in molten, equilibrated with zirconium oxide, 25:34566

PLUTONIUM FLUORIDES PuF$_4$
analysis for fluorine, 21:30498(R) (EURAEC-1832)
analysis for impurities by atomic absorption spectrophotometry, 24:36345 (CEA-R-3973)
analysis for plutonium, calorimetric, 25:48434 (CONF-710617-22)
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
criticality in processing equipment, analysis of configuration parameters for, 22:50808 (RFP-1206)
crystal structure of, temperature coefficients and interionic distances in, 25:20995
dehydration of crystal hydrates of, in flowing dehydrated hydrofluoric acid, 22:4139
dissolution in nitric acid, 23:37936 (RFP-1151)
dissolution of impure, in nitric acid, 23:37935 (RFP-1118)
distribution in dog tissues following inhalation in aerosols, 24:25365 (BNWL-1221, pp 2.1-44)
distribution in dog tissues following inhalation in aerosols, 24:25366 (BNWL-1221, pp 3.1-36)
distribution in tissues of dogs following inhalation, 25:21836 (CONF-700816-(Vol.2), pp 697-720)
distribution in tissues of dogs following inhalation as aerosols or dusts, 25:23989 (BNWL-SA-3469)
fluorination by fluorine, effects of cesium fluoride on, 21:45192 (ANL-7325, pp 50-98)
fluorination in fluidized bed, production of plutonium hexafluoride in kilogram quantities by, 24:174 (ANL-7575, pp 47-76)
fluorination in fluidized bed, production of plutonium hexafluoride in kilogram quantities by, 22:30568
fluorination of, to prepare plutonium hexafluoride, 21:35955
fluorination on fluidized bed, 23:9387
fluorination to plutonium hexafluoride, 22:45026 (ORNL-TM-2306)
fluorination to produce plutonium hexafluoride, efficiency of fluidized-bed processes for, 23:9497 (ANL-7468)
fluorination with fluorine and interhalogens, 22:8186
formation by reactions of chlorine monofluoride with and without oxygen with plutonium dioxide, 22:4230(R) (EURAEC-1920)
free energy of formation of, 25:34566
free energy of formation of, 24:36205 (ORNL-4586, pp 1-32)
neutron emission from, 23:19819 (CONF-680610-, pp 42-50)
neutron spectra and fluence to dose conversion factors for, (E), 24:30665 (BNWL-1262)
neutron spectra from plutonium-238, (E), 23:30915
photoinduced reactions with gaseous fluorine, production of plutonium hexafluoride from uv, 24:4265
preparation by hydrofluorination of plutonium dioxide, 21:35955
preparation of, by hydrofluorination of plutonium dioxide, 21:14805
reactions with sodium fluoride, products of, 22:25443 (ANL-7375, pp 46-94)

  reduction by calcium, production of plutonium metal by, 24:20862
  reduction of, by calcium, 21:14805
  reduction to metal, crucible design and process for one-g-scale, 23:48369
  reduction using calcium, scavenging of hydrogen present in the reaction, 21:45874
  separation from ruthenium fluoride by pyrohydrolysis and oxidation, 22:25443 (ANL-7375, pp 46-94)
  structure of, 23:13712
  vapor pressures of, 24:41310
  volatility of, 24:41310
  volatility of, effects of chlorine monofluoride on, 21:30498(R) (EURAEC-1832)
  volatilization by chlorine trifluoride, mechanism of, 22:4230(R) (EURAEC-1920)
  volatilization of, using chlorine trifluoride, effects of added chlorine on, 21:17703(R) (EURAEC-1785)
  volatilization of, using fluoride, 21:17703(R) (EURAEC-1785)
  Al_2O_3—PuF_4, criticality studies in chemical reprocessing reactor, 21:32225 (EURAEC-1858)
  LiF—PuF_4, preparation and structure of, 22:30555
  NaF—PuF_4, criticality calculations for, 22:45143 (K-1734)
  NaF—PuF_4, preparation and structure of, 22:30555
  PuF_4—UF_4, separation of plutonium and uranium from, by volatilization, 21:17703(R) (EURAEC-1785)
PLUTONIUM FLUORIDES PuF_5
  crystal structure of, 25:48516
  entropy and reduced free energy of, calculation of, at 298 to 3200°K in ideal gas state, 25:48516
  CsF—PuF_5, preparation and structure of, 22:30555
  PuF_5—RbF, preparation and structure of, 22:30555
PLUTONIUM FLUORIDES PuF_6
  cold trap for, insulation of, 21:25937(R) (K-L-1780(Pt.19))
  containment in glove boxes and process cells, filtration and hydrolysis studies on, 23:19922 (CONF-680610-, pp 166-84)
  criticality calculations for, 22:45143 (K-1734)
  criticality in processing equipment, analysis of configuration parameters for, 22:50808 (RFP-1206)
  crystal structure of, electron-diffraction study of, 22:33436
  crystallization of, design of continuous process equipment for, 24:5667(P)
  decomposition of volatile, mechanism of radiation and thermal, 22:51062
  determination in off-gas streams from fluoride volatility process, 23:9496 (ANL-7339)
  determination of volatile, method for, 22:25454 (CEA-N-616, pp 246-94)
  determination of, in gases from fluidized-bed volatility pilot plant, spectrophotometric, 21:12285(R) (ORNL-4039)
  effects of, on corrosion of nickel-200 in fluid-bed reactor, 21:4591 (ANL-7125, pp 61-106)
  filtration of gaseous, in cell exhaust air, equipment for, 21:45192 (ANL-7325, pp 50-98)
  hydrolysis of gaseous, products and rate of, 21:17627
  hydrolysis on glass beads, products of, 23:19922 (CONF-680610-, pp 166-84)
  isotopic exchange thermodynamics of, beta factors for, 23:37966
  neutron emission from, 23:19819 (CONF-680610-, pp 42-50)
  photoinduced production of, from solid plutonium tetrafluoride and gaseous fluorine, uv, 24:4265
  plutonium recovery from, effects of presence of fluorine gas on, 22:30118 (ANL-7438)
  preparation and properties of, 25:34698 (UJV-2291-Ch)
  preparation by fluorination of plutonium tetrafluoride, 21:35955
  preparation of, 21:91(P)
  preparation of, review on, 23:19691 (CONF-680610-, pp 2-17)
  production by fluidized-bed fluorination of plutonium tetrafluoride, 23:9387
  production by fluorination of plutonium tetrafluoride, efficiency of fluidized-bed process for, 23:9497 (ANL-7468)
  production from plutonium tetrafluoride, 22:45026 (ORNL-TM-2306)
  production of kilogram quantities of, by fluorination of plutonium tetrafluoride in fluidized bed, 22:30568
  production of kilogram quantities of, by fluorination of plutonium tetrafluoride in fluidized bed, 24:174 (ANL-7575, pp 47-76)
  properties of, review on, 23:19691 (CONF-680610-, pp 2-17)
  purification in fluoride-volatility process, sorption-desorption system for, 21:45200 (ORNL-4145, pp 58-94)
  purification in volatility separation process streams, methods for, 21:21755(R) (ANL-7302)
  purification of, evaluation of fluid-bed fluoride volatility process for, 22:30118 (ANL-7438)
  purification of, fluoride sorption-desorption system for, 22:30665
  radiolysis of, self-, 22:37837(R) (K-1744)
  radiolytic decomposition of, self-, 22:12399 (K-L-1780(Pt.22))
  reactions of gaseous, with hydrogen and water vapor to produce plutonium dioxide, 22:45026 (ORNL-TM-2306)
  reactions with cesium fluoride, fluorination of products of, 22:25443 (ANL-7375, pp 46-94)
  reactions with solid fluorides, 23:38082
  reactivity and thermal stability of, comparison of, 22:45072
  recovery in second fluorination cycle of bromine-halide volatility process, cold trap design for, 22:51134 (K-L-2963)
  reduction by bromine trifluoride, 22:25443 (ANL-7375, pp 46-94)
  reduction by sulfur dioxide, effects of uranium hexafluoride on kinetics of, 25:26332(T) (ORNL-tr-2410, pp 98-120)
  reduction by sulfur dioxide, effects of uranium hexafluoride on kinetics of, 25:6395 (CEA-N-1341, pp 337-61)
  reduction in mixture of uranium and fission product fluorides, selective, 23:35265(P)
  reduction to tetrafluoride by hydrogen or iodine, 22:48899 (RFP-993)
  reduction to tetrafluoride by thermal decomposition, purification of plutonium by, 24:41397 (RFP-1357)
  release in fuel reprocessing plant, safety aspects, 22:51045 (ANL-7425, pp 42-93)
  removal from hot cell exhaust air, 21:23589(R) (ANL-7308)
  separation from air in fluoride volatility process enclosure, 24:27180 (ANL-7612)
  separation from fission products by sublimation, 22:25443 (ANL-7375, pp 46-94)
  separation from impurities using lithium fluoride as sorbent, 21:32228(R) (ORNL-TM-1849)
  separation from metal fluoride mixtures using hydrofluoric acid, method for, 22:35886(P)
  separation from neptunium hexafluoride by thermal decomposition, 23:19823 (CONF-680610-, pp 140-60)
  separation from niobium pentafluoride and ruthenium pentafluoride by sorption on sodium fluoride beds, 23:19830 (ORNL-TM-2169)
  separation from process streams by cold trapping, 23:6198 (K-L-6223)
  separation from ruthenium fluorides by lithium fluoride sorption method, 23:40814(P)
  separation from ruthenium fluorides by sorption methods, 24:174 (ANL-7575, pp 47-76)
  separation from uranium hexafluoride, 23:33257(P)
  separation from uranium hexafluoride by selective reduction, 22:25454 (CEA-N-616, pp 246-94)
  separation from uranium hexafluoride by selective thermodecomposition, 22:25454 (CEA-N-616, pp 246-94)
  separation from uranium hexafluoride by selective reduction, 22:47213
  separation from uranium-base alloys by selective thermal decomposition, 23:13819 (CEA-CONF-1197)
  separation from ventilation air, 21:25935(R) (ANL-7225)
  separation of impurities from, 22:23106
  separation of ruthenium fluoride from, by sorption on lithium fluoride, 23:26320 (ANL-7550, pp 23-34)
  separation of, from cell exhaust atmosphere, equipment for, 21:4591 (ANL-7125, pp 61-106)
  separation of, from fission product fluorides and uranium fluorides by volatility process, 21:10416(R) (K-1691)
  separation of, from irradiated fuels by sorption by lithium fluoride in fluoride volatility process, 21:4595 (ORNL-P-2731)
  sorption by sodium fluoride, 22:51045 (ANL-7425, pp 42-93)
  sorption by sodium fluoride, 22:25443 (ANL-7375, pp 46-94)
  sorption by sodium fluoride at 100 to 125°C, 21:45192 (ANL-7325, pp 50-98)
  spectra of, fundamentals at 206.0 cm^{-1} in ir, 21:35956
  thermal decomposition of, 21:36073(R) (ANL-7350)
  thermal decomposition of, design of plutonium tetrafluoride packed bed for high-temperature, 23:19819 (CONF-680610-, pp 42-50)
  thermal decomposition to tetrafluoride in process streams, estimation of rates of, 22:4229 (ANL-7347)
  vapor pressure—temperature data for, 25:34602 (GAT-649)
  F—PuF_6, thermal decomposition of, equation for predicting, 21:45192 (ANL-7325, pp 50-98)
  HF—PuF_6, critical radii for infinitely long cylinders of, 21:22012(R) (K-L-1780(Pt.18))
  HF—PuF_6, criticality calculations for homogeneous, 22:45143 (K-1734)
  PuF_6—UF_6, liquid-vapor equilibria in, 21:4591 (ANL-7125, pp 61-106)
  PuF_6—UF_6, melting-point diagram for, 21:10299 (ANL-7234)
  PuF_6—UF_6, phase diagram of, melting point determinations of, 21:25935(R) (ANL-7225)
  PuF_6—UF_6, phase studies of, 21:24849
  PuF_6—UF_6, phase studies of, 22:150
  PuF_6—UF_6, phase studies of, at 73 to 89 deg C, vapor-liquid equilibria in, 21:3141 (ANL-7186)
  PuF_6—UF_6, separation of plutonium and uranium from, volatility process for, 22:37825(T) (ANL-Trans-626, pp 36-58)
PLUTONIUM HALIDES
  preparation, properties, and reactions of, review of, 22:2089
  reactions with carbon and reducing metal to yield plutonium carbides, 22:23883(P)
  thermodynamic properties of, 21:25831
PLUTONIUM HYDRIDES
  critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
  critical mass of undermoderated spheres of, density effects on, (T), 21:34161
  phase studies of, 22:2655
  preparation, properties, and phase relation of, review of, 22:2699
  preparation, properties, and reactions of, review of, 22:2089
  proton spin—lattice relaxation time in PuH_{2-42}, NMR study of, 25:7494
  reactions with carbon to prepare plutonium carbide, 21:32960
  reactions with nitrogen to prepare nonpyrophoric plutonium nitride, 22:15249(P)
  reactions with nitrogen, formation of plutonium nitride from, 21:42957
  thermodynamic properties of, 21:25831
PLUTONIUM HYDROXIDES
  crystal structure of, 24:29176 (CONF-700502-, pp 464-75)
  precipitation in hydrolysis of nitrate solutions of pentavalent plutonium, 23:13730
  production in plutonium reactions with seawater, 21:1527 (USNRDL-TR-1050)
  production of films of colloidal, on aqueous solutions of plutonium compounds, 25:113 (AWRE-O-37/70)
  separation from aqueous solutions, methods for, 21:35895
  solubility products of, 21:27969
  water removal from granular, method for, 24:8181(P)
PLUTONIUM IODATES
  separation from aqueous solutions, methods for, 21:35895
PLUTONIUM IODIDES
  crystal structure of, temperature coefficients and interionic distances in, 25:20995
PLUTONIUM IONS
  desorption from rhenium surfaces, energy and residence time of, 25:30259
  disproportionation of tetravalent, in dilute aqueous acid solution, effects of pentavalent plutonium ions on, 23:43291(R) (MLM-1603)
  effects on spectrophotometric determination of americium, 23:45189
  electric potential of tetravalent and pentavalent or tetravalent and hexavalent, effects of electron configuration of plutonium oxide ion on, 23:15836
  hydrolysis of nitrate solutions of pentavalent, 23:13730
  hyperfine structure in ESR spectra of trivalent, in calcium, strontium, and barium fluorides, 25:7493
  oxidation of tetravalent, by reactions with dichromate, 23:13731
  oxidation of trivalent, to tetravalent by chlorine in sulfate solutions, 23:24138 (BARC-379)
  photoinduced oxidation of, in acid solutions, 24:200
  polarographic behavior of trivalent, in acetonitrile—tetraethylammonium perchlorate, 23:47450
  preparation and properties of hexavalent, 23:26222(T) (UCRL-Trans-10343)
  production of heptavalent, by oxidation of hexavalent ions, 23:21693
  production of septivalent, 23:24185
  properties of heptavalent, 23:21693
  radii in fluorides and oxides, 24:188
  radioinduced oxidation of hexavalent, to septivalent in presence of nitrous oxide, γ, 23:40708
  radioinduced reduction of hexavalent, by alpha decay of plutonium-238, computer model for, 23:15920 (MLM-1581)
  radioinduced thermoluminescence in calcium fluoride crystals, (E), 25:7145 (UCRL-19530, pp 191-220)
  reactions of tetravalent, in exchange between transferrin and ferritin in vitro, 23:31330
  reactions of tetravalent, in oxalate solutions, 23:4635
  reactions of, disproportionation and interconversion, 23:45296
  reduction by tetravalent uranium ions, 23:378
  reduction of hexavalent, to pentavalent by nitrous acid, 23:21685
  reduction of tetravalent to trivalent, to separate from uranium in Purex process, 23:379
  spectra and structure of, continuities in, 23:19735
  spectra of, hyperfine structure anomaly of plutonium-239 and -241, 25:2893
  wave functions for Pu II, 25:7145 (UCRL-19530, pp 191-220)
PLUTONIUM ISOTOPES
  abundance ratio in MSRE fuel as measurement of power output, 24:46307 (ORNL-4548, pp 93-186)
  abundance ratios of, method for mass spectroscopy analysis for determining, 23:4854 (NBS-TN-277)
  aerosols of, method for rapid estimation of americium-241 content from, 24:48545
  alpha decay of, measurement of x ray-to-alpha ratio in, 24:25256(R) (BNWL-1307(Pt.3))
  alpha emission from, analysis of, 23:9201 (TID-24857)
  analysis of, radiochemical methods for, 23:34992
  content in man, maximum permissible, 21:30091(R) (ANL-7210)
  content in Yankee Power Reactor fuel, effects of burnup on, 23:31236(R) (BNWL-1039)
  content of lungs, use of large-area gas-filled proportional detectors and scintillation detectors with anticoincidence circuits for in vivo measurement of, 23:14152 (BNWL-SA-2205)
  content of precipitation in United States during 1966 to 1967, 22:28506
  content of surface waters near Argonne National Laboratory during 1968, 23:35751
  cross section measurements of, nondestructive and destructive methods of analysis used in fabrication of targets for, 25:57345 (CONF-711002-, pp 293-306)
  decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
  decay of, 22:3737
  decay properties of, tables and charts on, (E), 22:7723
  determination by isotope dilution and mass spectroscopy, 25:37269(T) (LA-tr-71-24)
  determination by isotope dilution methods, 23:19659
  determination by thermal ionization mass spectrometry, 24:41181 (NP-18305)
  determination for chemical fuel reprocessing plant accountability, 24:31467
  determination in biological and environmental samples, review on radiochemical methods for, 22:8034
  determination in ceramic fuels and feed materials, 24:31222 (BNWL-1024)
  determination in environmental samples by anion exchange, electrodeposition, and counting in ionization chamber, 24:44123 (HASL-217, pp III.14-19)
  determination in fission products by thermal neutron activation, 25:20936
  determination in fissionable materials by photonuclear methods, review on new developments in, 25:20939

- determination in fissionable materials, development of gamma-ray and neutron methods for, 25:51768 (LA-DC-12295)
- determination in fuel element solutions by mass spectroscopy, 21:30350 (NBL-238)
- determination in fuel elements by mass spectroscopy, 22:37639(T) (ANL-Trans-610, pp 1-56)
- determination in fuel elements for use in determining burnup, radiochemical, 23:37910
- determination in fuels, 24:38703
- determination in in-process materials in fuel reprocessing plant, 24:9432 (KFK-904)
- determination in irradiated fuel, methods for, 21:4413(R) (GEAP-5174)
- determination in irradiated fuels, 24:259(T) (ANL-Trans-775)
- determination in NPD fuel bundles, chemical and mass spectrometric methods for, 21:32029 (AECL-2695)
- determination in plutonium and plutonium oxide by mass spectrometry, 24:2131
- determination in plutonium dioxide by mass spectrometry, 25:26153 (LA-4622)
- determination in plutonium dioxide—uranium dioxide pellets by mass spectrometry, 24:5589
- determination in plutonium dioxide—uranium dioxide systems, 25:34503(R) (NBL-256)
- determination in plutonium dioxide—uranium dioxide pellets by mass spectrometry, 25:26153 (LA-4622)
- determination in plutonium samples, coincidence neutron detector for, 23:47729 (AD-689733)
- determination in plutonium sources, measurement of alpha to x ray yield ratio for, 21:35839 (BNWL-SA-1022)
- determination in reactor fuels by mass spectrometric and radiochemical methods, 24:25007 (WCAP-6086)
- determination in reactor fuels by neutron capture method, 23:45225
- determination in reactor fuels, mass spectrographic, 22:25236 (CEA-N-616, pp 20-71)
- determination in Shippingport blanket fuel, 21:35838 (BNWL-478)
- determination in spent uranium oxide (UO_2) by mass spectrometry, 25:37015 (BNWL-1568)
- determination in wounds, use of surface contoured silicon diode semiconductor detectors for in vivo measurement of, 23:14152 (BNWL-SA-2205)
- determination of abundance of, relative to uranium isotopes, mass spectrometric, 24:36143 (CEA-N-1241, pp 3-83)
- determination of radioactive, in soils, 25:34500
- determination of, design of solid-state detector system for, 21:45343 (BNWL-481-4, pp 42-5)
- determination of, produced in uranium fuel in Canadian reactors, computer programs for, 21:1239 (AECL-2631)
- determination of, radiometric, 22:44973 (JINR-P7-3855)
- determination of, x-ray—alpha coincidence circuits for, 22:47312 (BNWL-715(Pt.1), pp 20-9)
- determination simultaneously with uranium isotopes by mass spectrometric isotope dilution, 24:2134
- distribution in clad uranium dioxide fuels at 30,800 to 37,900 MWd/tU, 25:40135(R) (GEAP-10363)
- distribution in fast reactor cores, model of long-term changes in, 21:19418
- distribution in irradiated natural uranium oxide (UO_2) fuel rods, (E/T), 22:20943
- distribution in irradiated thorium dioxide—uranium dioxide rods, relations with burnup, 23:10295(R) (BAW-3809-5)
- distribution in lungs following inhalation by dogs and rats, mechanisms for, 23:14152 (BNWL-SA-2205)
- dosimetry of, nuclear data for, 21:8801 (RFP-795)
- energy levels of even—even, single-phonon, (T), 24:52645 (JINR-P4-5126)
- excretion, effects of alginates, citrate ions, fluorides, and hexametaphosphate on, 22:45508(R) (PG-Report-826)
- fission of, spontaneous, 22:3737
- fission of, thresholds for spontaneous, 21:13860
- gamma dose to reprocessed reactor fuels from, calculation of, 22:23247(T) (EURFNR-385)
- gamma spectra of, 22:51042 (CEA-R-3547)
- handling of, review on factors in controlling personnel exposure during, 22:8333
- hazards for man, review, 25:57998 (NIRS-Pu-8)
- inhalation by rats, kinetics of, 22:8477
- metabolism by man following inhalation, 22:30935 (SZS-16/67)
- metabolism in man, registry of data on, 25:6621 (BNWL-SA-3307)
- monitoring in effluent streams in environs of Chalk River Nuclear Laboratories, 25:37728(R) (AECL-3860)
- neutron capture and fission near 20 keV, cross sections for, (E), 23:13302
- neutron capture cross section calculations using revised mass formula, fast, (T), 22:30021
- neutron cross sections for, review of resonance, (E), 25:15069
- neutron cross sections from 0.1 to 100 keV, accuracy for reactor design, 21:7629 (GEAP-4472)
- neutron dose rates from spheres of metallic, calculation of, 22:1755 (BNWL-SA-1326)
- neutron dose to reprocessed reactor fuels from, calculation of, 22:23247(T) (EURFNR-385)
- neutron fission of, review of, (E/T), 22:3738
- neutron reactions above resonance energies, review of data on, 25:15112
- neutron reactions with, review of data on fast, 25:15102
- neutron reactions with, review of, (E/T), 22:3738
- production in multiple neutron capture by plutonium-242, yields for, (E), 23:13302
- properties of, 23:35442
- properties of, review of, 22:3737
- radiation dose from, at groundlevel during 1954 to 1966 and 1967 to 1971, calculation of, 22:40716
- recovery from power reactor fuels, economics of, 22:49032
- retention by rats, effects of complexing agents on, 22:8480
- separation of, 22:37938 (ORNL-4271)
- shielding requirements for, measurements for γ and neutron, 22:1755 (BNWL-SA-1326)
- spectra of 238 through 242, isotopic shift in, (E), 22:17347
- uptake by gastropods following accidental rupture of thermonuclear bomb, 24:41867
- uptake by personnel, methods for estimation of radiation dose following, 24:7863

PLUTONIUM ISOTOPES Pu-232
- fission from electron-capture decay of americium-232, delayed, (T), 25:20371 (JINR-P7-5584)
- fission of, delayed, (E), 25:56744(T) (NP-tr-1936)

PLUTONIUM ISOTOPES Pu-234
- fission from electron-capture decay of americium-234, delayed, (T), 25:20371 (JINR-P7-5584)
- fission of, delayed, (E), 25:56744(T) (NP-tr-1936)

PLUTONIUM ISOTOPES Pu-235
- electron-capture decay of, branching ratio, decay energies, and half-life for, (E), 25:53746 (KFK-1393)
- electron-capture decay of, γ spectra and half-life for, (E), 25:28415
- fission of isomeric, half-life for, 24:30788
- fission of isomeric, half-life for delayed, (E), 23:42938
- half life of isomeric, (E), 24:35872
- neutron capture-to-fission ratios in ZPR-VI, (E), 21:7923
- production of isomeric, in uranium-233 (α,2n) reactions, thresholds and ratios for, (E), 24:35872

PLUTONIUM ISOTOPES Pu-236
- alpha decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
- alpha decay of, uranium-232 energy-level scheme from, (E), 21:17366
- alpha decay to first K/sup π/ = 0^+ states of uranium-232, effects of long-range effective forces on, (T), 23:34792
- burnup analyses for, 22:1778(R) (WCAP-6085)
- contamination of power reactor produced plutonium 238, effects of reactor type on, 23:40370
- content in plutonium-238, computed and experimental data on, 23:24379(R) (BNWL-1010)
- content in power reactor-produced plutonium-238, analysis of, 23:4245
- content in spent fuels from fast and thermal reactors, relations with burnup, (E), 25:21321
- content in water cooled reactor irradiated fuel elements, 25:20733 (BNWL-1523)
- content of, in spent fuels, 21:10416(R) (K-1691)
- decay in SNAP-15A heat source, measurement of gamma spectra from, 25:18601
- decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
- deposition in man, excretion studies to determine, 24:48459 (BNWL-1307(Pt.2), pp 40-2)
- determination in irradiated fuels by alpha spectrometry, 25:23521 (KFK-1128)
- determination in irradiated plutonium dioxide—uranium dioxide fuels as measure of burnup, 25:18359 (WCAP-3385-56(Pt.2))
- determination in medical-grade plutonium-238 by pulse shape or ion exchange method, 24:5608
- determination in plutonium dioxide in presence of plutonium-238, direct and indirect radiometric methods for, 25:51402
- determination in plutonium-238 by alpha counting, electrodeposition equipment for use in, 23:28721 (MLM-1621)
- determination in plutonium-238 by alpha pulse height analysis, 22:37687
- determination in plutonium-238, α spectrometric methods for, 23:40610 (CEA-N-1044, pp 331-80)
- determination in plutonium-238, radiometric, 24:29210 (CEA-CONF-1535)
- determination in plutonium-238, two techniques for, 22:25440(R) (MLM-1443)
- determination in plutonium-238-enriched plutonium dioxide, 22:39985 (MLM-1486)
- determination of abundance of, relative to plutonium-238 in γ- and neutron-irradiated neptunium-237, 25:39552
- determination of ppM quantities of, in plutonium dioxide by alpha counting or measurement of daughter activity, 23:2223
- determination of trace amounts of, in irradiated fuels by α spectrometry, 25:44336(T) (EURFNR-872)
- determination of trace amounts of, in plutonium-238 using semiconductor detectors, α spectrometric, 23:49730 (CEA-R-3773)
- effects on spacecraft experimental facility shield design, (T), 24:6600
- energy-level scheme from curium-240 alpha-decay spectra, (E), 21:17366
- fission of, neutron emission in spontaneous, 21:12023 (NP-16440)
- half-life of isomeric, (E), 24:13349
- neutron reactions at thermal energies to 10 MeV, evaluation of data on, (T), 25:15128
- neutron reactions with, microscopic nuclear data and five-group cross sections for, (E/T), 25:23019 (EURFNR-862)
- production and properties of spontaneously fissioning isomeric, 23:46989 (RLO-1388-97)
- production by 50-MeV proton irradiation of natural uranium in variable energy cyclotron, 25:15703
- production by photon reactions (γ,n) with neptunium-237 at 20 MeV, 23:47487
- production in boron-10 and boron-11 reactions with uranium-238, excitation functions for, (E), 21:30013
- production of isomeric, in uranium-234 (α,2n) reactions, upper limit for, (E), 24:35872

PLUTONIUM ISOTOPES Pu-237
- content of mice and rats following injection, use of DTPA for removal of, 24:695
- deformation of isomeric, (E), 25:34089
- distribution in tissues of rats, effects of citrates on, 24:581
- electron capture decay of, proportional detector measurement of conversion electron spectra from, 24:20981 (CEA-R-3938)
- electron-capture decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
- energy levels from uranium-235 (α,2n) and neptunium-237 (d,2n) reactions, half-lives, isomer ratios, and production ratios for isomeric, (E/T), 25:12530 (RLO-1388-130)
- energy levels of, superfluid-model calculations of energies and wave functions of nonrotational, (T), 25:31306 (JINR-P4-5693)
- energy-level scheme from curium-241 alpha-decay spectra, (E), 21:17366
- excretion by animals, effects of citrate on, 21:26418(R) (PG-Report-771)
- fission of 108 nsec isomer of, decay curve for spontaneous, (E), 25:25724(R) (RLO-1388-121)
- fission of isomeric, half-life for, 24:30788
- fission of isomeric, half-life for delayed, (E), 23:42938
- fission of isomeric, half-life for spontaneous, (E), 25:36795
- fission of isomeric, half-life for spontaneous, (E), 25:34089
- fission of isomeric, half-life for spontaneous, (E), 24:8891 (RLO-1388-107)
- fission of isomers of, spontaneous, (E), 25:15046
- fission of isomers of, spontaneous, (E), 25:7847 (ORNL-4513)
- half life of isomeric, (E), 24:35872
- half-life of isomeric, (E), 24:13349
- metabolism following injection in dogs, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
- neutron fission to 5 MeV, calculated number of neutrons per fission from, (T), 25:39055
- preparation from uranium-235 for metabolic studies in man, methods for, 22:28385
- production and properties of spontaneously fissioning isomeric, 23:46989 (RLO-1388-97)
- production by ^{235}U(α,2n)^{237}Pu reaction in cyclotron, 23:6341 (BNWL-714, pp 5.1-26)
- production by alpha reactions (α,2n) with uranium-235, 25:54674
- production of isomeric, in uranium-235 (α,2n) reactions, thresholds and ratios for, (E), 24:35872
- proton fission at 10 MeV to 29 GeV, cross section for, 25:31326
- radiation dose to bone following injection of, method for calculation of α, 23:6341 (BNWL-714, pp 5.1-26)

PLUTONIUM ISOTOPES Pu-238
- abundance relative to plutonium-239 in seawater, 23:45422
- abundance relative to uranium-238 in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
- alpha activity and range in dioxide microspheres, measurement of effective, (E), 23:26457 (MLM-1642)
- alpha activity and range in dioxide microspheres, measurement of effective, 24:36524
- alpha activity of, from SNAP-9A reentry burnup, 21:30639(R) (TLW-3547-3)
- alpha activity of, from SNAP-9A reentry burnup, 21:30638(R) (TLW-3547-2)
- alpha activity of, from SNAP-9A reentry burnup, 21:30637(R) (TLW-3547-1)
- alpha activity of, from SNAP-9A reentry burnup, 21:30640(R) (TLW-3547-4)
- alpha decay in calcium fluoride crystals, effects on optical spectra, (E), 22:20055
- alpha decay in plutonium oxide, effects on crystal structure from, 24:10200
- alpha decay of, autoreduction of hexavalent plutonium ions by, computer model for, 23:15920 (MLM-1581)
- alpha decay of, coincidence semiconductor detector system for measurement of x-ray-to-alpha ratio in, 25:8465 (BNWL-SA-1514)
- alpha decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
- alpha decay of, energy release in, (T), 22:32622
- alpha decay of, gamma energies and absolute branching intensities for, (E), 25:56753 (UCRL-51087)
- alpha decay of, gamma spectra and half-life for, (E), 25:14981 (IN-1448)
- alpha decay of, γ spectra for, (E), 23:52143 (UCRL-18667, pp 1-64)
- alpha decay of, identification of 871-keV spurious peak in gamma spectra from, 23:46987 (MLM-1534)
- alpha decay of, internal conversion electron spectra from, (E), 23:19297
- alpha decay of, time spectrum of alpha—conversion-electron delay in, (E), 25:12542
- alpha emission by, effects of, on gastrointestinal tract of pigs, 22:49536
- alpha emission by, shielding of, in artificial isotope-powered heart, 22:31275
- alpha emission from, 21:30809 (SC-DC-67-1854)
- alpha spectra of, energies of intense lines in, (E), 22:35357
- alpha spectra, (E), 25:25736
- analysis for neptunium-237 and uranium by ion exchange and alpha counting, 24:2140
- analysis for plutonium-236 by alpha counting, electrodeposition equipment for use in, 23:28721 (MLM-1621)
- analysis for plutonium-236 by alpha pulse height analysis, 22:37687
- analysis for plutonium-236, α spectrometric methods for, 23:40610 (CEA-N-1044, pp 331-80)
- analysis for plutonium-236, radiometric, 24:29210 (CEA-CONF-1535)
- analysis for plutonium-236, two techniques for, 22:25440(R) (MLM-1443)
- analysis for trace amounts of plutonium-236 using semiconductor detectors, α spectrometric, 23:49730 (CEA-R-3773)
- analysis of medical-grade, for plutonium-236 by pulse shape or ion exchange method, 24:5608

analysis of oxide-incorporated heat sources of, for impurities using gamma spectroscopy, (E), 22:18704
availability of, for isotopic power generation in Europe, 21:26095
availability, characteristics, and cost of, for use as power sources, 22:8307
burnup analyses for, 22:1778(R) (WCAP-6085)
contamination of personnel following glovebox explosion, estimation of long-term systemic burden from, 24:48546
content as plutonium oxide in 55-gal waste disposal drums, use of proportional detectors for determining, 21:45367 (MLM-1373)
content in air and water discharged at Mound Laboratory in 1967, 22:21205(R) (MLM-1464)
content in atmosphere from reentry burnup of isotopic power sources, prediction of, 21:4620 (AHSB(RP)M-41)
content in atmosphere from SNAP-9A burnup, 21:22772
content in atmosphere from SNAP-9A failure, measurement for use in evaluation of satellite reentry, 22:35943(R) (TLW-3803-1)
content in atmospheric precipitation at worldwide sites during 1966 to 1970, 24:36409(R) (HASL-227(App.))
content in beagle dog lungs following inhalation as oxide, 25:29421 (LF-43, pp 8-12)
content in body of man, evaluation of scintillation spectrometer for measurement of, 21:45625 (RFP-954)
content in canyon alluvium in Los Alamos, N. Mex. area, 25:15762 (LA-4561)
content in environmental samples from Euratom Ispra Establishment, 24:44123 (HASL-217, pp III.14-19)
content in fallout and atmospheric precipitation in USA during July to Sept. 1968, 24:33800
content in fallout and surface atmosphere in USSR during 1964 to 1967, 24:41441
content in fallout from Russian nuclear explosions, 22:42879
content in ground level air at Winchester, Mass. during Jan. 1966 to Aug. 1968, effect of SNAP-9A on, 24:33796
content in ground level atmosphere at Winchester, Mass. during May 1965 to Mar. 1969, 24:33796
content in ground-level atmosphere at Ispra, Italy, July to Oct. 1970, 25:15785 (HASL-239, pp III.40-4)
content in ground-level atmosphere in Winchester, Mass., May 1965 to March 1969, 24:33799
content in Ispra ground-level atmosphere, 1961 through 1965, 23:11661
content in Japanese rainwater from nuclear explosions and SNAP-9A reentry burnup, 23:13876
content in Japanese rainwater, effects of SNAP-9A burnup on, 23:33273
content in lower stratosphere and upper troposphere, 21:16014 (NYO-3615-1)
content in lower stratosphere, Project Airstream measurements of, Aug. 1967, 22:25527 (HASL-193, pp I.33-207)
content in man, evaluation of the PUQFUA system for determination of, 21:32643 (CONF-661018, pp 134-45)
content in material moving in and out of fuel fabrication facility, performance of instruments for measuring, 25:21300
content in monthly precipitation in US cities, 1965 to 1967, 22:25530 (HASL-193, pp II.1-30)
content in Pacific Ocean near Point Arguello, California, 21:14340 (TID-23476)
content in rainwater at selected US sites, data tabulations on, 1957 to 1967, 22:14588(R) (HASL-184(App.))
content in seasonal stratospheric samples collected during 1964 to 1967 in northern and southern hemispheres, 22:21201 (HASL-184, pp I.53-118)
content in silts and surface waters in Ashford, N. Y. fuel reprocessing plant environs, 1966 and 1967, 24:2322
content in SNAP-9A reentry-produced fallout at Ispra, Italy, 23:9573
content in soils at Espanola, Los Alamos, and Sante Fe, New Mex, 25:15763 (LA-4562)
content in spent fuels from fast and thermal reactors, relations with burnup, (E), 25:21321
content in stratosphere during Aug. 1967 to Aug. 1969 from burnup of SNAP-9A, 24:36408(R) (HASL-227)
content in stratosphere from SNAP-9A reentry burnup, 22:4362
content in surface air at western hemisphere sites during 1965 to 1970, 24:36409(R) (HASL-227(App.))
content in surface air in western hemisphere during 1968, 25:44797
content in surface air samples at stations along 80th meridian west from 76° north to 63° south, 22:21203 (HASL-184, pp II.6-25)
content in surface atmosphere at western hemisphere land sites, 1965 to 1968, 22:25531(R) (HASL-193(App.))
content in upper atmospheric samples collected above selected global stations, 1966, 21:41019(R) (HASL-182)
content in US precipitation, Jan. through June 1967, 23:26373
content in water cooled reactor irradiated fuel elements, 25:20733 (BNWL-1523)
content in wounds, response of thallium-activated sodium iodide scintillation detector for determining, 22:37995 (SC-TM-68-416)
content of AEC contractor personnel during 1957 to 1966, statistical analysis of, 23:24645
content of airborne particulates and precipitation in United States during July to December 1967, 23:31777
content of airborne particulates in U. S. during 1965, 22:25850
content of airborne particulates in USA during 1969, 25:13441
content of airborne particulates in USA during 1968, 23:31779
content of airborne particulates in USA during 1970, 25:52056
content of airborne particulates in USA during 1970, 25:42426
content of atmosphere and river water at Miamisburg, Ohio during 1970, 25:26739(R) (MLM-1795)
content of atmosphere and surface waters in environs of Mound Laboratory during January to June 1967, 23:12089
content of atmosphere and surface waters in environs of Mound Laboratory during 1968, 23:35751
content of atmosphere and surface waters in vicinity of Mound Lab., Miamisburg, Ohio, during January to July 1970, 25:16077 (MLM-1784)
content of atmosphere at various world sites during 1968, 23:22283(R) (HASL-204(App.))
content of atmosphere from SNAP-9A burnup, 21:36271
content of atmosphere from SNAP-9A re-entry burnup, 22:21200 (HASL-184, pp I.2-10)
content of atmosphere in United States during Jan. to March 1967, 22:23515
content of atmosphere in USA during 1968, 25:11039
content of atmosphere over Central, North, and South America during April to Dec. 1969, 25:10721
content of atmospheric precipitation and worldwide HASL sites from 1966 to 1970, 25:8658 (HASL-237, pp II.1-16)
content of atmospheric precipitation at selected world sites during 1966 to 1969, monthly averages for fallout, 24:25482(R) (HASL-224(App.))
content of atmospheric precipitation in U.S. from 1964 through March 1967, 21:45612(R) (HASL-183(App.))
content of dogs, measurement of, by whole-body scanning, 24:25477 (BNWL-1221, pp 7.1-25)
content of fallout at selected locations of world wide sampling program during 1965 to 1967, 23:818 (HASL-197(App.))
content of fallout in lower atmosphere during 1963 to 1969, 23:35706(R) (HASL-210(App.))
content of fallout samples collected during 1968 and 1969, 24:44456 (HASL-217, pp II.1-215)
content of liver, lymph nodes, and spleen of beagles following ingestion of labeled microspheres, 22:51305 (LA-3848, pp 75-96)
content of off-site atmosphere and surface waters at Mound Laboratory during July to December 1969, 25:21693
content of precipitation in Melbourne and New York City during 1965 to 1969, fallout, 23:35705(R) (HASL-210)
content of precipitation in United States during April to June 1968, 24:12082
content of soil at Los Alamos Area, N. Mex, 25:18985 (LA-4563)
content of stratosphere during 1967 to 1968, 23:50459(R) (HASL-204)
content of stratosphere during 1969 and 1970, 25:46819 (HASL-243, pp II.1-146)
content of stratosphere during June 1968, 23:35705(R) (HASL-210)
content of surface air at selected world sites during 1965 to 1968, fallout, 23:7995(R) (HASL-200(App.))
content of surface atmosphere at selected world sites during 1963 to 1969, monthly averages for fallout, 24:25482(R) (HASL-224(App.))
content of upper atmosphere at selected global stations during 1968, 23:50459(R) (HASL-204)
content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
content of, in spent fuels, 21:10416(R) (K-1691)
content of, in stratosphere, 1965 and 1966, 21:10861(R) (HASL-174)
content of, in surface air at Ispra, Italy, 1966, 21:10861(R) (HASL-174)
criticality calculations for water moderated high concentration assembly, 24:18697(R) (BNWL-1304)
criticality of sphere shaped metal, 24:7194
criticality safety of SNAP-19B heat sources of, methods for control of, 24:44232
crystal lattice parameter annealing in self-irradiated dioxide of, activation energy of first stage of, 25:13784
decay in power sources, effects on performance of 30-W thermoelectric converter, 24:22875(R) (GA-8928(Pt.2))
decay in SNAP-15A heat source, measurement of gamma spectra from, 25:18601
decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
decay scheme, 25:57998 (NIRS-Pu-8)
deposition at selected world land sites during 1965 to 1969, fallout, 23:48043 (HASL-214(App.))
deposition at world sites from 1965 to 1970, measurements of, 25:8658 (HASL-237, pp II.1-16)
deposition in Australia and United States during 1965 to 1968, 22:40661(R) (HASL-197)
deposition in deep respiratory tissue, carcinogenic risk from, 22:33819 (UCRL-50387)
deposition in Italy during 1969, fallout, 24:25481(R) (HASL-224)
deposition in man, excretion studies to determine, 24:48459 (BNWL-1307(Pt.2), pp 40-2)
deposition in tissues of dogs following ingestion, whole-body counting of, 23:22395
deposition in Tokyo and on Japan Sea, 1966 to April 1969, 24:25142
deposition in Tokyo from March 1959 through 1966, 23:17578
deposition on earth surface, calculations for, 24:31504
deposition on plant leaves, effects of, on temperature, 23:6340 (BNWL-714, pp 4.1-24)
design and testing of sealed heat sources of, for implantable cardiac pacemakers, CEA program for, 25:8425 (NP-18563)
design of heat source of, for cardiac pacemaker, 25:57668(P)
design of heat sources of, for human implantation, 25:4229
determination by α spectrometry, 25:26153 (LA-4622)
determination by liquid scintillation counting, 25:21083(R) (MLM-1767)
determination in air filter samples collected during Project Stardust, 21:6489(R) (HASL-176)
determination in ambient air, tentative method for α spectrometric, 25:2113
determination in cans of residue by gamma scanning and calorimetry, 24:27189(R) (MLM-1612)
determination in fuel element solutions by alpha spectroscopy, 21:30350 (NBL-238)
determination in fuel pins, evaluation of radiometric methods for, 24:48239 (KFK-1208)
determination in fuel reprocessing solutions, 25:8324(T) (ORNL-tr-2406)
determination in fuel rods, mixed oxides, and plutonium oxides, design and performance of mobile computerized multi-channel spectrometer equipment for, 25:48779 (CONF-710617-3)
determination in human lungs, background reduction in thallium-activated cesium iodide and sodium iodide detectors for, 23:29204
determination in irradiated plutonium dioxide—uranium dioxide fuels as measure of burnup, 25:18359 (WCAP-3385-56(Pt.2))
determination in liquid waste effluents from nuclear fuel reprocessing plant by α spectrometry, 25:12950 (BRH/NERHL-70-2)
determination in particulate masses of dioxide (PuO_2) collected on impactors from simulated reentry tests of SNAP fuel, 23:2091 (SC-CR-68-3673)
determination in plutonium by alpha spectrometry, 23:47393
determination in plutonium by α counting, 24:50353 (CONF-690916-(Vol.2), pp 252-6)
determination in plutonium sources by γ spectroscopy, 24:46190 (BNL-50237)
determination in presence of uranium-238 by mass spectrometric isotope dilution, 24:2134
determination in process solutions by thin-crystal counting, 23:9511(R) (MLM-1520)
determination in radioactive waste by γ scanning, in-line, 25:6399(R) (MLM-1751)
determination in radioactive waste cans by gamma spectroscopy, 23:28720 (MLM-1585)
determination in radioactive waste, method for, 22:1956(R) (MLM-1405)
determination in residues, methods for, 25:23755(R) (LA-4605)
determination in scrap fissionable material by neutron counting, 25:20937
determination in solid wastes by gamma pulse height method, 23:13656
determination in solutions, effects of sampling on precision of, 25:6399(R) (MLM-1751)
determination in spent fuel of Yankee Power Reactor, 21:46869(R) (WCAP-6083)
determination in steel drums containing radioactive waste by gamma scintillation spectroscopy, 22:43080
determination in surface air, radiochemical, 25:15514 (HASL-239, pp I.58-62)
determination in waste cans, 22:33208(R) (MLM-1456)
determination in waste drums using 765 keV γ measurements, 21:36327
determination of abundance of, relative to plutonium-236 in γ- and neutron-irradiated neptunium-237, 25:39552
deuteron reactions (d,pf) at 13 MeV, analysis using double-humped barrier, (E/T), 25:36746
development for fuel, 23:8303 (LA-DC-10046)
diffusion in stratosphere of, 21:6053
distribution in atmosphere following SNAP-9A satellite failure, 22:12439 (AERE-R-5575)
distribution in dog tissues of, from inhaled microspheres of plutonium oxide, 21:26554(R) (BNWL-370)
distribution in organs of rats following inhalation and intramuscular injection, 25:8590 (CEA-CONF-1658)
distribution in stratosphere from SNAP-9A burnup, 21:17739(R) (AD-642279)
distribution in tissues of dogs and rats, 23:47924(R) (UH-235-P-8-X-2)
distribution in tissues of dogs following inhalation of labeled plutonium oxide particles, 23:6340 (BNWL-714, pp 4.1-24)
distribution in tissues of rats following inhalation as oxide aerosols, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution in tissues of swine following ingestion of labeled plutonium oxide particles, 23:6340 (BNWL-714, pp 4.1-24)
distribution in uranium oxide (UO_2) fuel elements, effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
distribution of ingested microspheres of plutonium oxide containing, in swine, 21:28427(R) (BNWL-335(Rev.))
dose rates for simulated, calculation of neutron and photon, 24:4849(R) (BNWL-1177)
effects of, on reduction of plutonyl ions in nitric acid, 21:12380(R) (MLM-1342)
effects on beagle dogs following long-term inhalation of oxide form, 24:50674(R) (BNWL-1306(Pt.1))
effects on determination of plutonium-236 in plutonium dioxide by direct and indirect radiometric methods, 25:51402
effects on dogs following implantation as power source for blood-cooled heat exchanger, γ, neutron, and thermal, 23:35892
effects on dogs following ingestion, 23:22395
effects on dogs following inhalation as oxide particles, effects of dose and time on pathological, 25:21836 (CONF-700816-(Vol.2), pp 697-720)
effects on dogs following inhalation, pathological, 24:25363 (BNWL-1221)
effects on dogs following oral administration, α and γ, 23:7950

effects on fecundity, physiology, and survival of dogs following use in mechanical heart, 24:17147
effects on incidence of neoplasms in human lungs following inhalation of insoluble aerosols, 23:29826 (UCRL-50387(Add.))
effects on leukocytes and lymph nodes of dogs following inhalation, 25:26929
effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
effects on lungs of dogs following inhalation of, pathological, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
effects on pathology of dog lungs from deposited microspheres, of plutonium oxide, 21:28427(R) (BNWL-335(Rev.))
effects on rats following injection, pathological α and γ, 23:6341 (BNWL-714, pp 5.1-26)
effects on survival of dogs and rats following inhalation of labeled plutonium oxide particles, effects of particle size on α and γ, 23:6340 (BNWL-714, pp 4.1-24)
electron wave functions for neptunium-238 beta decay, effects of nuclear quadrupole moments on, (T), 21:25559
encapsulation for use in reactor neutron flux measurements, 24:41615(R) (ORNL-TM-3089)
encapsulation of heat sources of, design of facility for remote, 24:22853
energy levels from curium-242 alpha decay, lifetimes, quadrupole moments, and deformation parameters for, (E), 25:12542
energy levels from curium-242 decay, (E), 21:12068
energy levels from neptunium-238 decay, γ-vibrational and ground-state rotational-band mixing in transitions of, (E), 24:52592
energy levels from neptunium-238 decay, lifetimes and spin-parity assignments for, (E), 25:12594
energy levels from neptunium-239 beta decay, (E), 25:20431
energy levels of, blocking parameters for $K = 2$ and β-vibrational, (T), 23:1903
energy levels of, microscopic calculation of vibrational, (T), 24:13365
energy-level transition in, effect of electron shell on γ radiation for E3, (T), 23:42917
energy-level transition probabilities for, calculations using rotation—vibration model for E0, (T), 23:13315
energy-level transitions from curium-242 alpha decay, probabilities for E2, (E), 25:12542
fabrication and properties of heat sources of, for medical and space uses, 24:31626
fabrication and properties of heat sources of, for SNAP-19B, 25:54893 (MLM-1736)
fabrication and testing of heat sources of, for Life Support II water reclamation system for space vehicles, 25:330 (MLM-1757)
fabrication and testing of heat sources of, for use in implantable cardiac pacemaker, 25:57657(R) (NUMEC-4189-6)
fabrication of heat sources of cermet-contained, for space power systems, evaluation of methods for, 25:39656
fabrication of SNAP-27 heat sources of, calorimetric method for materials management during, 25:32166 (CONF-700541-, pp 101-21)
fallout at Melbourne, Australia, May to Nov. 1966, effects of SNAP-9A reentry burnup on, 21:41019(R) (HASL-182)
fallout at selected U.S. stations, 1965 to 1966, 21:41019(R) (HASL-182)
fallout from burnup of SNAP-9A, 24:36408(R) (HASL-227)
fines analysis of plutonium dioxide-incorporated, following impact with concrete, granite, and sand targets, 23:21892 (MLM-1626)
fission half-life of, spontaneous, 25:51584(R) (MLM-1792)
fission of isomeric, half-life for, 24:30788
fission of isomeric, half-life for delayed, (E), 23:42938
fission of, average kinetic energies and masses of fission fragments from spontaneous, (E), 25:36782
fission of, low-mass atom production in fast-neutron, 22:46859 (ANL-7434)
fission of, neutron emission in spontaneous, 21:12023 (NP-16440)
fission rate of, spontaneous, 23:24258
gamma dose measurements for, used as heat source in artificial heart, 23:9650 (MLM-1556)
gamma dose rate from 15-W heat source of, 22:25440(R) (MLM-1443)
gamma dose rates from, 23:24258
gamma dose rates from, in plutonium dioxide, 22:31060 (MLM-1460)
gamma emission by, acute and chronic effects of, on man from isotope-powered artificial heart, 22:31275
gamma emission by, effects of, on gastrointestinal tract of pigs, 22:49536
gamma emission from, dosimetry of, 21:30807 (NUMEC-3731-5.3-2)
gamma spectra in plutonium dioxide, plutonium nitride, and metallic samples, (E), 23:4013
gamma spectra of SNAP-15A heat source of, 24:5814
gamma spectra of, (E), 23:28299 (LA-DC-9763)
gamma spectra, (E), 25:17861 (IN-1448(Rev.))
half life of isomeric, (E), 24:35872
half-life of, calorimetric decay measurements of, 22:25440(R) (MLM-1443)
half-life of, revised values for, 24:52386 (BNL-50233)
handling in laboratories, contamination hazards in, 22:38261(R) (SC-CR-67-2845)
hazards from use of, as biomedical power source, 22:4604 (LA-3696)
heat sources of, ablation and thermal response of fuel microspheres for SNAP, 23:4783 (SC-RR-68-547)
heat sources of, capsule development for, 21:41156
inhalation as plutonium dioxide particles by man, effects of particle number and size on risks of, 24:29738 (NP-18208)
inhalation by rats in relation to survival, 22:10825 (BNWL-480, pp 55-83)
inhalation of plutonium oxide-incorporated, by dogs, localization of particles following, 24:50687(R) (UH-235-P-8-X-3)
inhalation of, relative hazards from, 24:31973
isotopic shift measurements for, 22:13250
mechanical properties of fuel forms of, design of equipment for determining, 24:25212(R) (LA-4328)
metabolism by dogs, effects of inhalation of plutonium oxide aerosols on, 21:28585(R) (BNWL-247)
metabolism in dogs following oral administration, 23:7950
metabolism in mammals and leaves of plants, 21:28338(R) (BNWL-353(Rev.))
metabolism in miniature swine following ingestion of oxide form, 24:50674(R) (BNWL-1306(Pt.1))
metallurgical properties of metal for fuel, 21:35777 (MLM-1387(Suppl.)(Del.1))
monitoring during April 1969, 23:24611(R) (HASL-207)
monitoring in Australia and North and South America during 1965 to 1969, fallout, 24:21100(R) (HASL-217(App.))
monitoring in Ispra and Milan during 1968, fallout, 23:50459(R) (HASL-204)
monitoring of fallout, in surface air samples at selected worldwide sites during 1965 to 1968, 23:24612(R) (HASL-207(App.))
monitoring of Mound Laboratory area, environmental, 23:21823(R) (MLM-1619)
monitoring of Mound Laboratory area, environmental, 22:45183 (MLM-1522)
monitoring of surface air at selected world sites during 1963 to 1969, fallout, 23:48043 (HASL-214(App.))
neutron absorption and fission cross sections and resonance integrals for, thermal, (E), 22:27089 (DP-MS-67-118)
neutron absorption cross section and resonance integral, (E), 22:3710
neutron absorption cross sections and resonance integrals, (E), 21:29960 (IN-1026)
neutron cross section data on, tables of multigroup, 25:28657 (HEDL-TME-71-36)
neutron cross section of, oscillator measurement of thermal, 21:35701(R) (BNL-50023)
neutron cross sections from 0.001 eV to 15 MeV, compilation of, 21:29833 (NAA-SR-12271)
neutron cross-section data for, corrections to, 21:46722 (NAA-SR-12271(Suppl.1))
neutron dose measurements for, used as heat source in artificial heart, 23:9650 (MLM-1556)
neutron dose rates from, 23:24258
neutron elastic scattering at 0.01 to 15.0 MeV, evaluated angular distributions for, (E), 21:31736 (NAA-SR-11980(Vol.4))
neutron emission by, acute and chronic effects of, on man from isotope-powered artificial heart, 22:31275
neutron emission by, refining methods for reduction of, 22:30784
neutron emission from, dosimetry of, 21:30807 (NUMEC-3731-5.3-2)
neutron emission rate from thermal power sources of, 22:30783
neutron emission rate of, 23:24258
neutron emission rates and energy spectra for, used as heat source for SNAP-27 and artificial heart, 23:38191
neutron emission rates in plutonium dioxide, plutonium nitride, and metallic samples, (E), 23:4013
neutron energy spectra of thermal power sources of, 22:30783
neutron fission $(n,\gamma f)$ of, thermal, (E), 21:7797
neutron fission at 0.06 to 7.2 MeV, angular distribution of fragments in, (E), 23:40040
neutron fission at 0.45 to 3.6 MeV, cross sections and angular distributions of fragments from, (E), 24:11020
neutron fission at 0.5 to 17 MeV, cross sections for, (E), 23:32923(T) (BNL-tr-265)
neutron fission at 0.5 to 3 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
neutron fission at 1 to 1000 keV, widths for s- and p-wave, (E/T), 23:44892
neutron fission at 14.5 MeV, cross sections and fission-fragment angular isotropy from, (E), 21:31825
neutron fission at 15 to 500 eV, cross section for, (E), 25:14982 (NCSAC-31)
neutron fission at 15 to 500 eV, resonance structure in cross section for, (E), 25:48073 (IN-1407, pp 1-82)
neutron fission at 17 eV to 3 MeV, cross sections for, (E), 23:32931 (LA-4108)
neutron fission at 18 eV to 3 MeV, cross sections and resonance integrals for, (E), 23:28304 (WASH-1124)
neutron fission at 18 eV to 3 MeV, tables of cross sections for, (E), 25:41227 (LA-4674)
neutron fission at 2.5 keV to 2.5 MeV, cross sections for, (E), 25:20444
neutron fission at 32 eV to 2.6 MeV, cross sections for, (E), 24:43316 (LA-4420)
neutron fission at 50 to 400 eV, cross section for, (E), 23:49398 (WASH-1127)
neutron fission cross section and resonance parameters at 18 eV to 1 MeV, (E), 22:20578 (WASH-1079)
neutron fission cross section and resonance widths at 0.02 to 100 eV, (E), 22:18292
neutron fission cross section of, fast, (E), 23:37247
neutron fission cross sections at 0.02 to 400 eV, (E), 21:10068
neutron fission cross sections at 1.0, 1.5, 3.0, and 15 MeV, (E), 21:46752
neutron fission cross sections at 1.0, 1.5, 3.0, and 14.9 MeV, (E), 22:20571 (LA-DC-9188)
neutron fission data for, use of area analysis technique for analysis of resonances below 500 eV in, 23:26086 (IN-1218, pp 1-56)
neutron fission of, angular distribution and excitation function for, (T), 21:40503
neutron fission of, angular distribution of fragments from, (E), 24:30787
neutron fission of, double barrier description of angular anisotropy of, (E/T), 25:39007
neutron fission of, energy spectra and mean prompt neutron production in thermal, (E), 25:15118
neutron fission of, prompt neutron spectra and yield for thermal, (E), 25:10039
neutron fission of, prompt neutron yield from thermal, (E), 24:38283
neutron fission of, prompt neutron yield from thermal, (E), 24:40600 (ANL-7625)
neutron fission to 5 MeV, calculated number of neutrons per fission from, (T), 25:39055
neutron fission up to 5 MeV, angular distribution of fragments from, (E), 23:19300
neutron multiplication in SNAP-19B heat sources of, effects of array spacings in water and air and water and lead reflectors on subcritical, 23:11739 (MLM-1523)
neutron multiplication measurements on heat sources of, 22:2307 (MLM-1416(DEL-1))
neutron reactions $(n,\gamma f)$ with, thermal, (E), 21:12027(R) (UCRL-50001-66-2)
neutron reactions at thermal energies to 10 MeV, evaluation of data on, (T), 25:15128
neutron reactions with, microscopic nuclear data and five-group cross sections for, (E/T), 25:23019 (EURFNR-862)
neutron resonance fission cross section at 2 to 300 eV, (E), 21:19275
neutron resonance parameters and total cross sections at 0.002 to 5.0 keV, (E), 21:25518 (WASH-1071)
neutron resonance parameters for, tabulation of, 23:26086 (IN-1218, pp 1-56)
neutron spectra from oxide-incorporated heat sources of, 22:8304
neutron spectra of, (E), 23:28299 (LA-DC-9763)
neutron spectra of, in metal and oxide, 22:25440(R) (MLM-1443)
neutron total cross section and resonance parameters at 0.008 to 6500 eV, (E), 22:3710
neutron total cross sections and resonance parameters from 0.008 to 6500 eV, (E), 21:29960 (IN-1026)
oxidation of tetravalent, in nitric acid, spectrophotometric studies on self-, 24:13737 (ORNL-4466, pp 89-93)
oxygen-18 reactions (O-18,5n) with, nobelium-252 production by, (E), 22:3696 (JINR-P7-3556)
particle size of plutonium dioxide SNAP fuels containing, effects of ablation on, 23:16041 (SC-CR-68-3470)
performance as heat source in thermionic converters, analysis of systems, 25:57656 (N-71-18512)
performance as power source for human mechanical heart, evaluation of, 24:14505
performance as power source in biomedical applications, evaluation of, 24:14506
performance in space power sources for long durations, 23:38194
photofission at 12 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
photofission at 5 to 10 MeV, angular distributions and fragment yields for, 24:52561(T) (LA-4385-TR)
photofission at 5 to 10 MeV, fragment yields and angular distributions for, (E), 24:38288
photofission at 5 to 8 MeV, angular distribution of fragments from, (E), 23:37207
photofission at 7.5 and 11 MeV, cross sections and yields for, (E), 23:23728
photofission at 7.5 to 11.0 MeV, excitation function for, (E), 25:46063
photofission at 7.5 to 11.5 MeV, cross section for, (E), 23:37238
photofission of, angular distribution of fragments from, (E), 24:30787
preparation and properties of microspheres of, 23:360 (ORNL-4272, pp 161-73)
preparation of aerosols of, for inhalation studies, 24:25364 (BNWL-1221, pp 1.1-47)
preparation of aluminum-clad foils of, method for, 25:58180 (CONF-711002-, pp 70-6)
preparation of heat sources of, by sol-gel process, 24:380 (ORNL-4422, pp 230-8)
preparation of metallic, for use in fabrication of sealed sources, method for, 24:11656 (CEA-N-1148, pp 335-68)
preparation of metallic, for use in fabrication of sealed sources, method for, 24:22725(T) (ANL-Trans-801)
preparation of metallic, of high chemical purity, electrorefining process for, 23:24258
preparation of oxide containing, with low neutron emission, 23:7550 (DP-1153)
preparation of radiation source of, by impregnation into sol oxide microspheres, 24:2402(P)
preparation of radiation targets of, 23:1881 (ORNL-TM-2364)
preparation of sols of, method for, 23:360 (ORNL-4272, pp 161-73)
processing at Los Alamos Scientific Laboratory, operation of facility for safe, 24:31658
processing of, description of filters for glove boxes for, 25:54949 (CONF-710401-, pp 149-61)
processing of, design of glove box facility for pyrochemical, 24:2260 (ANL-7568)
processing of, methods and safety precautions for, 25:54707 (CONF-710401-, pp 300-6)
processing of, problems from alpha activity, gas generation, and heat generation in, 24:2261 (ARH-1154)
production and requirements for marine, space, and terrestrial power systems, 24:22885
production and use as heat source for radioisotope generators, 24:22895
production and use as heat sources in thermoelectric converters in USSR, review of, 24:22897
production and uses in France, programs for, 25:51703 (A/CONF.49/P-637)
production and uses of, survey of, 23:532
production and uses, review on, 23:4670

production as by-product of fuel element processing, 21:42962 (CONF-670542-1)
production as by-product of operation of commercial power reactors, 24:31421
production as byproducts of nuclear fuel processing, 21:40880 (CONF-670542-, Paper 10)
production by decay of curium-242, 23:2529
production by irradiation of neptunium-237 in PWR, economic aspects of, 23:24379(R) (BNWL-1010)
production by neptunium target irradiation in high flux and power reactors, comparison of economics of, 24:20948(R) (BNWL-1308-1)
production by neptunium target irradiation in high flux and power reactors, comparison of economics of, 24:9595(R) (BNWL-1256)
production by neutron reactions (n,γ) with neptunium-237 and uranium-235, 22:18851
production by neutron reactions with neptunium-237, effects of purity and target density on economics, 24:4849(R) (BNWL-1177)
production by neutron reactions with neptunium-237 in thermal reactors, 23:7547 (ANL-7484)
production by reactor irradiation of americium, 23:35168
production by US power reactors through 1990, 22:45245 (BNWL-716)
production costs in water reactors, (T), 22:15141 (BNL-50057, pp 79-100)
production for industrial use, 25:37440 (EUR-4612, pp 69-84)
production for use in cardiac pacemaker, 23:37976(R) (AE-360)
production in boron-10 and boron-11 reactions with uranium-238, excitation functions for, (E), 21:30013
production in epithermal reactors, economics of, 21:38576
production in light water reactors through 1990, 23:24379(R) (BNWL-1010)
production in power reactor spent fuel elements, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
production in power reactors of, analysis of plutonium-236 contamination from, 23:4245
production in power reactors, economic aspects of, 22:119
production in pressurized water reactors of, calculation of optimum economic, 23:37532
production in pressurized water reactors, economics and efficiency of neptunium-237 replacement rods for, 24:24720 (SNE-53)
production in reactors, economic studies of, 24:39139(R) (BNWL-1308-2)
production in reactors, neutron cross sections for calculating, (E/T), 22:27089 (DP-MS-67-118)
production in thorium high-temperature reactor fuel elements, economics of, 24:22420
production of aerosols of oxides of, for inhalation studies in dogs, 25:54982
production of biomedical-grade, 23:2529
production of carrier-free, 21:25908
production of heat sources of, for cardiac pacemakers, review of programs for, 25:42012
production of high specific activity, during reactor production of californium-252, 25:6474
production of high-purity, by reactor irradiation of neptunium-237, 24:31422
production of high-purity, for radioisotope-powered heart devices, USAEC programs for large-scale, 25:4227
production of isomeric, in uranium-236 $(\alpha,2n)$ reactions, thresholds and ratios for, (E), 24:35872
production of low plutonium-236 content, by irradiation of neptunium-237 in Hanford production reactors, 23:35426
production of low plutonium-236 content, by irradiation of neptunium-237 in Hanford reactors, 23:33333 (DUN-SA-84)
production of monodisperse aerosols of, centrifugation method for, 25:29421 (LF-43, pp 8-12)
production of plutonium 236 contaminated, effects of power reactor type on, 23:40370
production of spontaneously fissioning isomeric, in (n,2n) reactions, upper limits for cross sections for, (E), 25:20369 (JINR-P3-5528)
production of, by continuous irradiation and chemical processing of neptunium-237, 21:10405 (ORNL-4023)
production of, calculation of plutonium-236 formation in, 25:39552
production of, chemical technology in, 24:22681
production of, computer-analyzed fuel management for, 21:23710 (BNL-994, pp 45-69)
production of, description of neptunium secondary irradiation process for increased, 22:24933 (BNWL-SA-1529)
production of, optimization of neptunium-237 irradiation conditions for, 24:5820
production of, use of solvent extraction processes in, 24:9445
production on epithermal reactors, economics of, 21:35595
production using neptunium, fabrication of targets for, 22:8702 (BNWL-519)
properties and uses of, review on, 24:41416
properties as fuel for radioisotope-powered cardiac pacemaker, 22:32578 (TID-24373(Pt.2))
properties as heat source, 23:24258
properties as reactor fuel, technology of, 21:36844
properties for heat sources for human use, 23:35428
properties for isotopic heat sources for space application, 21:1529
properties for low power electric energy generation in charged particle collection system, 21:26115
properties for radioisotopic heat sources, 22:16770 (BNWL-680, pp a.1)
properties for use as cardiac pacemaker heat source, 24:41622
properties for use as fuel for space power systems, 24:25212(R) (LA-4328)
properties for use as fuel in bifold isotope heat source—reactor power source, 24:41613 (MLM-1357)
properties for use as heat source for artificial heart, compared with thulium-171, 23:26459 (ORNL-4283)
properties for use as heat source for circulatory support device, 24:48220(R) (BNWL-1308-3)
properties for use as heat source for implantable circulatory support device, 23:29096 (WANL-3857-1)
properties for use as heat source for silver—zinc batteries, 22:37952
properties for use as heat source for space power systems, 24:22886
properties for use as heat source for space power systems, comparison with other transuranium radioisotopes, 24:5819
properties for use as heat source for subliming microthruster for space propulsion, 25:42017
properties for use as heat source for thermoelectric generators, 25:42014
properties for use as heat source in aerospace life support system, 23:4780 (LMSC-680679)
properties for use as heat source in Dart thruster for space propulsion, 25:48746
properties for use as heat source in implantable cardiac pacemaker, 24:14197
properties for use as heat source in implantable cardiac pacemaker, 24:14198
properties for use as heat source in implantable Rankine-cycle rotary expansion steam engine for circulatory assist devices, 24:14196
properties for use as heat source in implantable Rankine cycle circulatory assist devices, 24:14195
properties for use as heat source in implantable Stirling cycle engine for powering circulatory assist devices, 24:14194
properties for use as large radioisotope heat source, comparison with cobalt-60, 24:31596
properties for use as large radioisotope heat source, comparison with cobalt-60, 24:31602
properties for use as power source for implantable circulatory support systems, 23:38190
properties for use as survival suit heat source, 22:37949
properties for use in nuclear battery, 23:21898
properties for use in power production, 23:530 (N-68-29959)
properties in isotopic power generators, 21:26095
properties of 30-W heat sources of, for human implantation, 25:4228
properties of fuel forms of, tabulations of, 24:7483 (MLM-1691)
properties of heat sources of, data sheets for, 23:4781 (MLM-1564)
properties of sources of, for use in μW range isotope batteries, 25:23736 (AE-410, pp 63-82)
properties of, data sheets on, 22:8724 (MLM-1441)
purification of, pyrochemical, 24:44060 (ANL-7650, pp 1-14)
purification of, pyrochemical methods for, 24:50439(R) (ANL-7675)
radiation dose from heat source of, in circulatory support system, (E), 25:54887(R) (BNWL-1308-6)
radiation dose from implanted heat source of, 25:18590(R) (BNWL-1308-4)
radiation dose from ingested spherical particles of, in man, 21:26420(R) (SC-CR-66-2144)
radiation dose from inhaled spherical particles of, in man, 21:26420(R) (SC-CR-66-2144)
radiation dose to human respiratory tissues following inhalation of oxide-incorporated, use of phantoms to determine effects of particle size on α, 23:9940 (ORNL-4316, pp 271-94)
radiation dose to human skin following, contamination by microspheres, 22:38261(R) (SC-CR-67-2845)
radiation dose to man following ingestion or inhalation of oxide particles containing, α and γ, 22:23509(R) (SC-CR-67-2729)
radiation dose to man from, following inhalation of labeled particles, α, γ, and neutron, 22:38261(R) (SC-CR-67-2845)
radiation dose to phantoms from implanted heat sources of, 24:39139(R) (BNWL-1308-2)
radiation effects on tissues of dogs during use as power source for artificial heart, 25:4433
radiation hazards from inhalation of, present in SNAP fuel elements, 21:30809 (SC-DC-67-1854)
radioactivity release to seawater and sediments from plutonium dioxide SNAP fuels containing, 23:476 (USNRDL-TR-68-74)
radon production in plutonium dioxide fuels containing, safety hazards from, 23:9653 (SC-RR-68-832)
reactivity worth of, temperature coefficient of, (E), 22:5744
recovery from scrap plutonium dioxide, pyrochemical method for, 23:26319 (ANL-7550, pp 7-22)
refining for biomedical application, 22:30784
research facilities for, design of glove box pyrochemical, 24:5779
retention in gastrointestinal tract of miniature swine, 21:38815(R) (BNWL-293)
retention of microspheres of, in lungs of beagle dogs, pathological effects of, 21:34651 (BNWL-SA-1105)
safety of cardiac pacemaker heat sources of, evaluation of mechanical and radiological, 25:4215 (NUMEC-3731-23)
separation from fuel materials and scrap by pyrochemical methods, 25:18492 (ANL-7709)
separation from irradiated neptunium-237, review on methods for, 24:41416
separation from irradiated targets of neptunium-237 by solvent extraction, design of CASTOR and POLLUX shielded cells for, 24:5715
separation from neptunium-237 by valence control, method for, 25:41833(R) (IA-1218)
separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation from uranium-234, methods for, 21:40959(R) (MLM-1399)
separation of uranium-234 from, 25:6399(R) (MLM-1751)
separation of uranium-234 from aged, 25:216(R) (MLM-1726)
separation of uranium-234 from aged, ion exchange method for, 22:1956(R) (MLM-1405)
shipping of large quantities of, design and performance of Universal Source container for, 25:51823
shipping of large quantities of, design and testing criteria for containers for, 25:51822
shipping of, design and testing of container for, 22:43016 (DPSPU-67-30-9)
shipping of, evaluation of accident during, 25:48817 (CONF-710801-(Vol.1), pp 188-94)
sorption from intestines of miniature swine, effects of plutonium oxide particle size on, 22:10676 (BNWL-480, pp 85-97)
sorption of ingested oxides of, by swine, 21:14542 (BNWL-280, pp 40-3)
sorption of oxide-incorporated, by gastrointestinal tract of pigs, 22:49536
structure of, α and γ spectra of fine, 23:40610 (CEA-N-1044, pp 331-80)
toxicity in rats in comparison to plutonium-239, 21:45544
toxicity to rats in relation to physicochemical state, 23:47927
triton reactions (t,pf) at 15 MeV, fission probability and fragment angular correlations for, (E), 25:7880
uptake by oat plants from soils, effects of fertilizers on, 25:42260
uptake by organisms of marine food chain, effects of physico-chemical form on, 25:55149 (BNWL-SA-4048)
uptake by rat lungs, in microspheres, effects of, on development of lesions in lung tissues of rats following intravenous injection, 24:27510
uptake by rats, effects of age on, 23:6341 (BNWL-714, pp 5.1-26)
use as alpha source for polarization of semiconductor counters, 21:306
use as α source, 22:14680
use as fuel for isotope reentry vehicle, 23:26458 (N-68-38170)
use as heat source for Apollo Lunar Radioisotopic Heater, 23:29093 (MLM-1637)
use as heat source for Apollo Lunar Radioisotopic Heaters, 24:29457
use as heat source for cardiac pacemaker, 24:19176
use as heat source for cardiac pacemaker, evaluation of, 25:13178
use as heat source for Decomposed Ammonia Radioisotope Thruster, 23:29104
use as heat source for electric power generation, performance characteristics for, 22:19051
use as heat source for first human-implanted cardiac pacemaker, 24:41620
use as heat source for heaters in lunar-landing vehicles, 25:29276(P)
use as heat source for implantable cardiac pacemaker, 23:35430
use as heat source for implantable cardiac pacemaker, 24:31593 (NUMEC-3731-20)
use as heat source for implantable circulatory support system, 22:40318 (AGN-8258)
use as heat source for organic Rankine cycle space power system, 25:42003
use as heat source for powering cardiac pacemakers implanted in dogs, 25:4238
use as heat source for space applications, economics of, 21:4670 (NASA-SP-131, pp 73-93)
use as heat source in 1 W isotopic thermoelectric generator for oceanographic application, 21:24165 (HIT-3627-15(Del.))
use as heat source in Apollo Lunar Heater, 23:29095 (SC-RR-69-125)
use as heat source in betavoltaic batteries and thermionic converters for powering cardiac pacemakers, 25:4237
use as heat source in Brayton cycle power generator, criticality analysis for, 22:51179 (MLM-1532)
use as heat source in cardiac pacemaker, 22:36002(R) (NUMEC-3731-13)
use as heat source in cardiac pacemaker, 24:9601 (NUMEC-3731-22)
use as heat source in cardiac pacemaker, evaluation of optimum design specifications for, 24:9600 (NUMEC-3731-21)
use as heat source in French cardiac pacemaker program, 25:8430
use as heat source in implantable cardiac pacemakers, review of worldwide developments in, 25:29285
use as heat source in implantable cardiac pacemaker, 25:57669
use as heat source in implantable cardiac pacemakers, 25:26434
use as heat source in implantable vapor cycle engine for powering artificial heart, 25:4234
use as heat source in isotopic generators, 21:45314(T) (JPRS-42391)
use as heat source in lunar roving vehicle power system, 21:41149 (NASA-CR-784)
use as heat source in nuclear battery, 23:21899
use as heat source in radioisotope thruster for space vehicle propulsion, 21:17781
use as heat source in Rankine cycle engine for implantable circulatory support system, 23:24391 (TE-3858-1)
use as heat source in satellite heating system, 21:8550(P)
use as heat source in small manned Antarctic station, 21:19854
use as heat source in SNAP-15A, 21:1522 (GA-5317)

  use as heat source in SNAP-27, review of program for, 25:41999
  use as heat source in Stirling cycle engine for implantable circulatory support system, 23:9654 (TID-24699)
  use as heat source in Stirling cycle power system for implantable circulatory support system, 25:54910(P)
  use as heat source in Stirling engine for powering artificial heart, 25:4233
  use as heat source in thermal engine for powering implantable heart device, 25:4232
  use as heat source in thermionic generator, 22:21982 (CEA-R-3418)
  use as heat source in thermionic isotopic power generator, 21:26103
  use as heat source in thermoelectric converters, 24:2396(T) (ORNL-tr-1389)
  use as heat source in thermoelectric generator for powering implantable artificial heart, 25:4235
  use as heat source in thermoelectric generator for Transit Navigation Satellite, 25:48749
  use as heat source in thermoelectric generators, 22:10514
  use as heat source in thermoelectric generators, 23:35421
  use as heat source in thermoelectric or thermionic generators, 23:7706(P)
  use as heat source in waste management system for space flight, 22:16745
  use as power source for artificial heart, calculation of radiation dose rate to man and determination of acute and chronic effects from, 22:31275
  use as power source for cardiac pacemakers, radiation protection aspects of, 25:37816 (EUR-4612, pp 115-41)
  use as power source for heart pacemaker, 22:49029
  use as power source for implanted circulatory assist device, gamma and neutron dose to body during, 22:31069
  use as power source in cardiac pacemaker, 22:30782
  use as power source in Europa I and II satellites, safety aspects of, 23:43467 (NP-17939)
  use as power source in implantable cardiac pacemakers, 25:39663
  use as power source in mechanical heart for implantation in man, 22:30789
  use as power sources for space applications, 21:6148 (STL-517-0034(Vol.1))
  use as radioactive source in radiometric manometer, 22:6664
  use as reference source for determining radiation hazard to man from re-entry of isotopic power devices, 22:38293
  use as source for production of fluorescent x rays for ore analysis, 25:21173
  use as source for self-irradiation of cerium—plutonium alloys, 21:41629
  use for powering implantable cardiac pacemakers in UK, research program on, 25:4240
  use for powering implantable cardiac pacemakers in France, research program on, 25:4239
  use for radioisotopic heat sources, 23:2528
  use in Brayton cycle power system in manned orbital laboratory, 21:36259 (N-67-20163)
  use in Brayton cycle space power plants, 23:2517 (N-68-25829)
  use in cardiac pacemaker batteries, 22:33616
  use in cardiac pacemaker batteries, safety factors and temperature studies for, 25:46594
  use in heat source for Brayton cycle space power conversion system, 21:36261 (ORNL-TM-1691(Del.))
  use in heat source for Brayton cycle space power conversion system, 21:36262 (ORNL-TM-1829)
  use in power source for artificial heart, shielding considerations in, (T), 22:31907
  use in space propulsion, 1967 summary of, 23:7411
  use of nuclear explosion produced, in tracer studies of transport processes in stratosphere, 24:31493
  use of, as fuel for space vehicles, calculation of atmospheric contamination from burnup during re-entry, 21:8831
  use of, as reference spectrometric alpha source, 21:4588
  use of, in SNAP-19 power system, 21:12605
  use of, in testing thermopile-type radiometric calorimeters, 21:10319 (UCRL-50145)
  use to power mechanical heart implants in man, 24:6033 (DUN-SA-115)
  valence stability in nitric acid solutions, 21:40959(R) (MLM-1399)
  valence stability of, in dilute nitric acid, 22:40148
  valency distribution in dilute hydrochloric acid or nitric acid solutions, 24:19034 (MLM-1709)
  x-ray emission following alpha disintegration of curium-242, fast coincidence measurements of L-shell fluorescence, 25:4947
  x-ray spectra of, use of lithium-drifted silicon detectors for measuring, 21:36345 (RFP-980)
  Be—Pu-238, neutron yield from, (E), 23:37090
PLUTONIUM ISOTOPES Pu-239
  abundance in nature, 22:25516
  abundance in nature, 23:2411(T) (AEC-tr-6968)
  abundance relative to plutonium-238 in seawater, 23:45422
  abundance relative to uranium-238 in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
  accumulation by Ascophyllum nodosum and marine phytoplankton, influence of cellular respiration inhibitors on, 25:10941
  accumulation by fishes in East Germany, 24:48468 (SZS-7/70)
  accumulation by trabecular bone surfaces of rabbits following intramuscular or intravenous administration of plutonium nitrate, 23:31761
  accumulation in bone and marrow of mice, effects of colloidal state of injected isotope on, 23:24632
  accumulation in bone, effects on preparation of autoradiographs with cellulose nitrate detector film, 24:48635
  accumulation of plutonium oxide-incorporated, in alveolar epithelium and macrophages, autoradiographic study of, 24:34054
  activity measurements from, in wounds, 21:8798 (ORNL-4007, pp 243-67)
  alpha activity of, use of liquid scintillation detectors for determining specific, 21:6199 (JUL-411-PC)
  alpha cross section for, effects on ZPR-3 reactivity of, 22:30118 (ANL-7438)
  alpha decay in calcium fluoride crystals, effects on optical spectra, (E), 22:20055
  alpha decay of, alpha-x ray coincidence measurements in, 21:12630 (KFK-411)
  alpha decay of, coincidence semiconductor detector system for measurement of x-ray-to-alpha ratio in, 25:8465 (BNWL-SA-1514)
  alpha decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
  alpha decay of, gamma energies and absolute branching intensities for, (E), 25:56753 (UCRL-51087)
  alpha decay of, gamma spectra and half-life for, (E), 25:14981 (IN-1448)
  alpha decay of, half-life for, (E), 25:25723 (RFP-1469)
  alpha decay of, review of data on, 24:15868 (KFK-966)
  alpha decay of, time spectrum of alpha—conversion-electron delay in, (E), 25:12541
  alpha decay scheme of, γ spectra for, (E), 22:7715
  alpha emission by, dosimetry of, in relation to production of bone tumors in rats, 22:38483
  alpha emission by, effects of, on blood of rats, 22:49503
  alpha emission by, effects of, on mitotic index of cells in lungs following inhalation, 22:45508(R) (PG-Report-826)
  alpha emission by, effects of, on radiation dose to beagle dogs following inhalation of aerosols, 22:23503 (BNWL-SA-1540)
  alpha emission by, effects of, on synthesis of androgens in beagles, 22:43244
  alpha emission by, tumorigenic effects of, on bones of dogs, 22:47581
  alpha fission of, mass-yield curves and absolute cross sections for various fission products from binary and ternary, (E/T), 25:17898
  alpha reactions (α,2n) at 26 MeV with fission isomer excitation cross section for, 24:30788
  alpha reactions (α,2n) at 26 MeV, cross section for fissioning isomer production in, (E), 23:42938
  alpha spectra of, energies of intense lines in, (E), 22:35357
  alpha spectra, (E), 21:7775 (UCRL-16888)
  alpha spectra, (E), 22:7737
  alpha value evaluation for sodium reactivity measurements, (E/T), 22:24926(R) (APDA-214)
  alpha values for, effects on reactor-bred plutonium equilibrium isotopic composition of new, 23:52463 (KFK-846)
  analysis of, collected on air filters during Project Stardust, 21:6489(R) (HASL-176)
  breeding gain in fast reactors, 21:44872
  breeding potential in steam-cooled fast breeder power reactor, effects of new α data on, 23:17187(T) (EURFNR-586)
  capture to fission ratio in, methods for measurement of, (E/T), 24:47818 (ANL-7610, pp 61-258)
  capture-to-fission ratio, reactivity reaction rate technique for low flux fast reactor spectrum, (E/T), 24:18729
  carbon-12 reactions (C-12,4n) and (C-12,5n) with, production of fermium-246 and fermium-247 in, (E), 21:10000 (JINR-P7-3022)
  carbon-12 reactions (C-12,5n) with, production of fermium-246 by, (E), 22:14016
  carbon-12 reactions with, production of fermium isotopes by, (E), 21:38353
  carcinogenicity in mice, 21:34577
  clearance from lungs of rats, effects of aerosol concentration on rate of, 25:8591 (CEA-CONF-1677)
  complexes with transferrin, stability comparison with transferrin complexes with iron, 25:23546 (COO-119-242, pp 145-51)
  contamination of Nevada Test Site, effects of, on blood of kangaroo rats, α and γ, 23:7975
  contamination of personnel, 23:22308
  content in soils of Euratom Ispra Establishment, comparison of fallout and natural, 24:4379
  content and distribution in organs of rats following chronic or single intraperitoneal administration, effects of age on, 25:23986(T) (AEC-tr-7195, pp 376-87)
  content and particle size distribution in Hanford facilities air, (E), 22:12473 (BNWL-495)
  content and particle size distribution in Hanford plant facilities air, 22:25568 (BNWL-481-3, pp 97-101)
  content in A2 reactor fuel, effects on thermal and epithermal spectra of, (T), 23:11186 (UJV-2027)
  content in air and human body, calculations of standards for, 23:22270(T) (AEC-tr-6944, pp 548-80)
  content in Atlantic Ocean, relations with depth, 24:36435(R) (NYO-2174-113)
  content in atmosphere, electrostatic precipitator for estimation of, 23:47908
  content in atmospheric precipitation at worldwide sites during 1966 to 1970, 24:36409(R) (HASL-227(App.))
  content in beagle dog lungs following inhalation as oxide, 25:29421 (LF-43, pp 8-12)
  content in canyon alluvium in Los Alamos, N. Mex. area, 25:15762 (LA-4561)
  content in dogs after inhalation of plutonium-239-labeled plutonium oxides, 21:28338(R) (BNWL-353(Rev.))
  content in environmental samples from Euratom Ispra Establishment, 24:44123 (HASL-217, pp III.14-19)
  content in fallout and atmospheric precipitation in USA during July to Sept. 1968, 24:33800
  content in fallout from Chinese and Soviet nuclear explosions, (E), 22:27920
  content in fallout from Chinese and USSR nuclear explosions, 23:47646(T) (UCRL-Trans-10355)
  content in fallout from Russian nuclear explosions, 22:42879
  content in fallout over Japan from Chinese and Soviet nuclear explosions, 1961 to 1962, 21:6038
  content in ground level atmosphere at Winchester, Mass. during May 1965 to Mar. 1969, 24:33796
  content in ground-level atmosphere at Ispra, Italy, July to Oct. 1970, 25:15785 (HASL-239, pp III.40-4)
  content in ground-level atmosphere in Winchester, Mass., May 1965 to March 1969, 24:33799
  content in Ispra ground-level atmosphere, 1961 through 1965, 23:11661
  content in laboratory air, maximum permissible, 25:42488
  content in lower stratosphere, Project Airstream measurements of, Aug. 1967, 22:25527 (HASL-193, pp I.33-207)
  content in lung of man, evaluation of methods for determination of, 21:32642 (CONF-661018, pp 120-33)
  content in lungs of man, proportional counter for measuring, 23:16081 (CEA-R-3559)
  content in lungs of man, scintillation detector system for monitoring, 24:2464
  content in marine organisms and sediments, 24:36408(R) (HASL-227)
  content in material moving in and out of fuel fabrication facility, performance of instruments for measuring, 25:21300
  content in monthly precipitation in US cities, 1965 to 1967, 22:25530 (HASL-193, pp II.1-30)
  content in silts and surface waters in Ashford, N. Y. fuel reprocessing plant environs, 1966 and 1967, 24:2322
  content in soils around Rocky Flats plant following May 11, 1969 fire, 24:46355 (HASL-235)
  content in soils at Espanola, Los Alamos, and Sante Fe, New Mex, 25:15763 (LA-4562)
  content in stored fuel elements for zero-energy reactor, gamma spectrometric equipment and method for measuring, 25:21296
  content in stratospheric fallout, 22:8224
  content in surface air at western hemisphere sites during 1965 to 1970, 24:36409(R) (HASL-227(App.))
  content in surface air in western hemisphere during 1968, 25:44797
  content in surface air samples at stations along 80th meridian west from 76° north to 63° south, 22:21203 (HASL-184, pp II.6-25)
  content in surface atmosphere at western hemisphere land sites, 1965 to 1968, 22:25531(R) (HASL-193(App.))
  content in ultrabasic rocks of USSR, 24:9497
  content in upper atmospheric samples collected above selected global stations, 1966, 21:41019(R) (HASL-182)
  content in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
  content in US precipitation, Jan. through June 1967, 23:26373
  content in USSR groundwaters, minerals, spring deposits, and volcanic rocks, 23:35334
  content in wounds of man, x-ray—tissue absorption technique for determining, 21:45339 (BNWL-481-4, pp 23-5)
  content of AEC contractor personnel during 1957 to 1966, statistical analysis of, 23:24645
  content of air and water in environs of plutonium industry, maximum permissible, 25:8674(T) (LF-tr-41, pp 199-220)
  content of air, lungs, and lymph nodes during 1964 and 1965, 22:40678
  content of airborne particulates and precipitation in United States during July to December 1967, 23:31777
  content of airborne particulates in U. S. during 1965, 22:25850
  content of airborne particulates in USA during 1968, 23:31779
  content of airborne particulates in USA during 1969, 25:13441
  content of airborne particulates in USA during 1970, 25:52056
  content of airborne particulates in USA during 1970, 25:42426
  content of animal tissues, method of liquid scintillation spectrometry for determination of, 23:16328
  content of animals, bottom sediments, plants, and water at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
  content of atmosphere at various world sites during 1968, 23:22283(R) (HASL-204(App.))
  content of atmosphere in Massachusetts during 1965 to 1966, 22:28500
  content of atmosphere in United States during Jan. to March 1967, 22:23515
  content of atmosphere in USA during 1968, 25:11039
  content of atmosphere of work locations, recommendations for maximum permissible, 25:6687(T) (ANL-Trans-864)
  content of atmosphere over Central, North, and South America during April to Dec. 1969, 25:10721
  content of atmosphere, absorption technique for estimation of, 23:48062
  content of atmosphere, human lungs and lymph nodes during 1964 to 1966 in Soviet Union, 24:12064(T) (AEC-tr-7128, pp 235-45)
  content of atmosphere, lungs, and lymphnodes in relation to radiation hazards to man, 22:40721
  content of atmospheric precipitation and worldwide HASL sites from 1966 to 1970, 25:8658 (HASL-237, pp II.1-16)
  content of atmospheric precipitation at selected world sites during 1966 to 1969, monthly averages for fallout, 24:25482(R) (HASL-224(App.))

content of atmospheric precipitation in U.S. from 1964 through March 1967, 21:45612(R) (HASL-183(App.))
content of atmospheric precipitation in USA during 1968, 23:31779
content of diet of man during 1965, 22:28500
content of dogs, following inhalation, whole-body counting of inhaled, 22:8558
content of dogs, measurement of, by whole-body scanning, 24:25477 (BNWL-1221, pp 7.1-25)
content of environment, rapid radiochemical method for determining, 24:50802 (SZS-12/70)
content of fallout at selected locations of world wide sampling program during 1965 to 1967, 23:818 (HASL-197(App.))
content of fallout in lower atmosphere during 1963 to 1969, 23:35706(R) (HASL-210(App.))
content of fallout samples collected during 1968 and 1969, 24:44456 (HASL-217, pp II.1-215)
content of fallout, ground-level atmosphere, and water in Euratom countries, 1967, 23:49951 (EUR-4246)
content of food in Colombia and Panama, 24:39452 (BMI-171-31)
content of food in western hemisphere, programs for determining, 24:31965
content of human body following wound contamination, computer-based analysis of, 23:9940 (ORNL-4316, pp 271-94)
content of human bones and liver, comparison of, with FRC and ICRP standards, 23:45756
content of human bones and tissues, determination of, 24:2606
content of human lungs and urine following inhalation, review of methods for determining, 24:7879
content of human lungs, determination of, by low level proportional counters, 23:821 (NP-17579, pp IV.3-4)
content of human lungs, development of chest phantom for interpretation of results from measurement of, 23:26770 (NP-17819, Chap.4)
content of human lungs, development of large proportional and scintillation detectors for measurement of, 25:57998 (NIRS-Pu-8)
content of human lungs, problems in measurement of, 23:14212
content of human lungs, proposed modifications of counters and techniques for measuring, 23:24636
content of human lungs, use of lung counter in measurement of, 25:37798 (EUR-4612, pp 327-51)
content of human lungs, use of proportional counter in measurement of, 25:37801 (EUR-4612, pp 469-82)
content of human lungs, use of protactinium-233 for determination of, 23:4925(T) (AEC-tr-6967)
content of human lungs, use of protactinium-233 to determine, 22:28472
content of human puncture wounds, design of collimated alpha detector for measurement of, 25:57998 (NIRS-Pu-8)
content of human tissues in Boston during 1965 to 1966, 22:28500
content of liver in beagles, binding of, by ferritin following intravenous injection, 24:554 (COO-119-240, pp 139-61)
content of lungs of dogs, ratio of, to americium-241 content following inhalation, 22:10825 (BNWL-480, pp 55-83)
content of lungs, dosimetry methods for determining, 23:4837 (BNWL-SA-1765)
content of man, use of anticoincidence spectrometer for in vivo measurement of, 23:45728 (AD-690243)
content of marine animals and plants in Greenland following nuclear weapons accident in 1968, 25:21640
content of marine organisms of Atlantic Ocean, 25:55161
content of mice and rats following injection, use of DTPA for removal of, 24:695
content of milk and total diet of man in United States, 22:28513
content of milk during 1965, 22:28500
content of Pacific seaweeds in environs of reactors in comparison to other locations, 25:55151 (CONF-710817-1)
content of plants, small mammals, and soil during ten year period, 25:49120 (UCLA-12-815, pp 63-97)
content of precipitation in Melbourne and New York City during 1965 to 1969, fallout, 23:35705(R) (HASL-210)
content of precipitation in United States during April to June 1968, 24:12082
content of soil, 21:43414
content of soil at Los Alamos Area, N. Mex, 25:18985 (LA-4563)
content of stratosphere during 1969 and 1970, 25:46819 (HASL-243, pp II.1-146)
content of stratosphere during June 1968, 23:35705(R) (HASL-210)
content of surface air at selected world sites during 1965 to 1968, fallout, 23:7995(R) (HASL-200(App.))
content of surface atmosphere at selected world sites during 1963 to 1969, monthly averages for fallout, 24:25482(R) (HASL-224(App.))
content of tissues in cattle from environs of Project Rollercoaster Site in relation to MPC levels for man, 23:38555 (SWRHL-53-r)
content of upper atmosphere at selected global stations during 1968, 23:50459(R) (HASL-204)
content of urine, AERE sampling and analysis program for determining, 22:49174 (AERE-M-2005)
content of wounds, measurement of, by gamma emission of americium-241, 22:4627
content of, in atmosphere, 21:6497(T) (AEC-tr-6828)
content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
content of, in stratosphere, 1965 and 1966, 21:10861(R) (HASL-174)
content of, in surface air at Ispra, Italy, 1966, 21:10861(R) (HASL-174)
cost of reactor fuels of, effects on liquid sodium-cooled fast power reactor development, 22:50733 (GEAP-5635)
critical assemblies of, central neutron spectral indices for, (E), 21:4276 (LA-DC-7851)
critical masses and radii of reflected spheres of, (T), 21:30665 (RFP-936)
critical parameters for, review of, 24:22928 (MRR-56)
critical parameters of mixtures of water and, (E/T), 21:44941 (LA-3612)
criticality calculations for unmoderated sphere shaped, 24:47818 (ANL-7610, pp 61-258)
criticality calculations for water moderated high concentration assembly, 24:18697(R) (BNWL-1304)
criticality control in solutions of, borosilicate-glass raschig rings as fixed neutron absorber for, 25:29197
criticality for spheres, slabs, and infinite cylinders of, data correlation of, 21:10592 (LA-DC-8386)
criticality measurements on, in fluoride volatility processes, 23:19824 (CONF-680610-, pp 161-5)
criticality of sphere shaped metal, 24:7194
decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
decay scheme, 25:57998 (NIRS-Pu-8)
decay scheme for, 21:36566 (BNWL-SA-997)
decay schemes of, effects on uranium-235 structure of α, 21:46943(R) (IN-1117)
deposition at selected world land sites during 1965 to 1969, fallout, 23:48043 (HASL-214(App.))
deposition in ammonium nitrate solutions, electrolytic, 24:48092
deposition in Australia and United States during 1965 to 1968, 22:40661(R) (HASL-197)
deposition in bones of rats following injection, effects of bone remodeling activity and DTPA therapy on, 25:46697
deposition in deep respiratory tissue, carcinogenic risk from, 22:33819 (UCRL-50387)
deposition in Italy during 1969, fallout, 24:25481(R) (HASL-224)
deposition in Tokyo and on Japan Sea, 1966 to April 1969, 24:25142
deposition in Tokyo from March 1959 through 1966, 23:17578
detection and alpha activity measurements for, in air, method for rapid, 24:27238 (CONF-690540-, pp 184-96)
detection by direct measurement, evaluation of equipment and procedures for, 22:49343
detection in breath of dogs from deposits in lungs, 22:51622
detection in human lungs by scanning, 24:21185(R) (JAERI-5021)
detection in human wounds, performance of probe for, 22:6804 (ORNL-4168, pp 289-311)
detection in lungs, design and fabrication of xenon—methane proportional counter for, 25:37562 (NP-18809, pp 4.1-6)
detection in wounds, methods for direct, 23:26770 (NP-17819, Chap.4)
determination by fission track method, 24:4231
determination by fission tracks, 24:2146
determination by ion exchange and liquid scintillation counting, 22:42583 (AD-665357)
determination by neutron activation and delayed neutron counting, 24:165
determination by neutron interrogation methods, 24:29216
determination by neutron transmission measurements, 25:41750 (AE-416)
determination following separation from liquid wastes by solvent extraction and reversed phase chromatography, 25:51383 (A/CONF.49/P-451)
determination in 1-gal containers of waste, performance of isotopic source assay system for, 25:48879(R) (GULF-RT-10697)
determination in ambient air, tentative method for α spectrometric, 25:2113
determination in animal tissues by liquid scintillation spectrometry, 25:37711 (ANL-7770, pp 149-56)
determination in aqueous solutions, effects of radioactive impurities on liquid scintillation, 22:40018
determination in ash samples, development of transportable linear electron accelerator system for, 25:21302
determination in bone samples by radiochemical separation and alpha counting, 23:11431 (COO-119-237, pp 158-62)
determination in drums of radioactive waste, scintillation detector system for, 24:25261 (UCRL-50007-69-3, pp 1-9)
determination in fissionable materials, delayed neutron method for, 25:356(R) (LA-4523)
determination in fuel elements by neutron-transmission methods, 22:4035
determination in fuel materials, review of nondestructive methods for, 22:18705
determination in fuel pins, evaluation of radiometric methods for, 24:48239 (KFK-1208)
determination in fuel reprocessing solutions, 25:8324(T) (ORNL-tr-2406)
determination in fuels using slowing down spectrometer, 24:48037 (BNL-50232)
determination in fuels, neutron source for nondestructive, 24:31254
determination in fused soil matrices by tracer equilibration, electrodeposition, and α spectroscopy, 25:44335 (CONF-650616-33)
determination in human lungs, background reduction in thallium-activated cesium iodide and sodium iodide detectors for, 23:29204
determination in human lungs, proportional detector for low-level, 23:29203
determination in human urine in presence of enriched uranium, radiochemical method for, 25:55197
determination in irradiated and nonirradiated fuel elements simultaneously with uranium-235, pulsed neutron method for, 23:43270
determination in irradiated fuel, by spectroscopy, 21:14109(R) (EUR-3123.e)
determination in irradiated plutonium dioxide—uranium dioxide fuels as measure of burnup, 25:18359 (WCAP-3385-56(Pt.2))
determination in irradiated samples using slowing-down-time lead spectrometer, 22:33221
determination in irradiated uranium fuels by isotope dilution and α and γ spectrometry, 23:9343
determination in irradiated Yankee Power Reactor fuels, gravimetric and volumetric methods for, 24:417 (WCAP-3896-1)
determination in liquid waste effluents from nuclear fuel reprocessing plant by α spectrometry, 25:12950 (BRH/NERHL-70-2)
determination in lunar rocks from Apollo 11 by mass spectrometry, 24:20706
determination in lungs of man, calibration of detectors for, 25:21402
determination in lungs of man, design and performance of low-background x-ray proportional detector for, 23:22037
determination in lungs of man, large area proportional detector for, 24:19223
determination in lungs of man, proportional detector system for, 24:2439 (AEEW-M-912)
determination in man using scintillation counters with CsI(Tl) and NaI(Tl) crystals, 23:24637
determination in medium-density scrap cans by gamma scanning, 24:39172(R) (LA-4457)
determination in minerals and natural waters by alpha counting, 21:34335
determination in mixed oxide rods by measurement of prompt neutrons, 24:5609
determination in MSRE fuels by delayed-neutron method, 24:13777 (ORNL-4466, pp 62-88)
determination in other fissionable material by neutron resonance self-indication technique, 23:2228
determination in phantom, lithium-drifted germanium detector for, 24:36559 (RFP-1488)
determination in plutonium by alpha spectrometry, 23:47393
determination in plutonium compounds, accountability methods for, 22:6 (CONF-661011, pp 135-45)
determination in plutonium nitrate solutions in polyethylene storage bottles, 25:39432(R) (BHO-69-3)
determination in plutonium nitrates, general analytical evolution program for, 21:38872(R) (NBL-239)
determination in plutonium sources by γ spectroscopy, 24:46190 (BNL-50237)
determination in presence of americium-241 by alpha counting, 23:9295 (CEA-R-3442)
determination in reactor fuel elements by delayed-neutron kinetic response method, 23:2229
determination in reactor fuel elements, reliability of destructive and nondestructive methods for, (E), 25:32178 (CONF-700541-, pp 363-8)
determination in reactor fuel plates, nondestructive method for, 25:32174 (CONF-700541-, pp 266-80)
determination in relation to plutonium-241 by γ spectrometry, 24:11461
determination in scrap fissionable materials and spent fuel elements by active and passive assay methods, 25:20937
determination in scrap samples, delayed neutron interrogation method for, 25:23755(R) (LA-4605)
determination in soils by ion exchange and alpha spectroscopy, 25:47
determination in spent fuel elements by γ and neutron counting, effects of matrix on, 25:20936
determination in stratospheric fallout by α spectroscopy, 22:8224
determination in surface air, radiochemical, 25:15514 (HASL-239, pp I.58-62)
determination in unirradiated fuels by neutron flux measurements, apparatus for nondestructive, 25:28988(P)
determination in urine by reversed-phase partition chromatography and α counting, 24:36172 (RT/PROT-(69)44)
determination in urine, comparison of solid-state detectors with nuclear track counting for, 21:14654
determination in urine, methods for, 22:51468
determination in vivo, equipment for, 23:41130 (IDO-12071, pp 14-17)
determination in waste containers, gamma spectrometer for, 25:48952 (ARH-1993)
determination in wounds using Si(Li) detectors, 23:24635
determination of, 24:38703
determination of abundance of, relative to americium-238 and americium-241 in soft tissues of Beagle dogs by electrodeposition and α spectrometry, 23:49726 (BNWL-1051(Pt.2), pp 10-13)
determination of, measurement of prompt and delayed neutrons from photofission for, 23:4018
determination of, use of delayed neutron response techniques in, 24:18901(R) (LA-4320)
determination on surface of skin, use of high-speed α-autoradiography for, 23:4931(T) (NSJ-tr-136)
deuteron fission at 13 MeV, optical-model analysis of probability for, (T), 25:28445 (CERN-70-30(Vol.1), pp 553-66)
deuteron fission at 20 and 50 MeV, range of fragments from, (E), 22:20659
deuteron fission of, anisotropy of, (E), 22:20578 (WASH-1079)
deuteron reactions (d,2n) at 13 MeV, cross section for delayed fission in, (E), 24:13349
deuteron reactions (d,p) at 11 to 13 MeV, cross section for delayed fission in, (E), 24:13349
deuteron reactions (d,p) at 13 MeV, fission probability in, (E), 23:37261

deuteron reactions (d,pf) at 11.5 MeV, high-resolution spectra study of, (E), 23:46979 (AECL-3376)
deuteron reactions (d,pf) at 12.5 MeV, correlation of kinetic energy and fission-fragment angular anisotropy in, (E), 22:20643
deuteron reactions (d,pf) at 13 MeV, analysis of resonances in, (E/T), 24:30783
deuteron reactions (d,pf) at 13 MeV, analysis using double-humped barrier, (E/T), 25:36746
deuteron reactions (d,pf) at threshold, anisotropy of fragments from, (E), 21:12011 (AECL-2639)
deuteron reactions (d,pf) with fission-fragment angular correlations as function of excitation energy, (E), 23:7308
deuteron reactions (d,pf) with, angular correlations in, (E), 22:37359
deuteron reactions (d,pf) with, angular correlations in, (E), 21:40429(R) (RLO-1388-23)
deuteron reactions (d,pf) with, angular correlations for, (E), 21:38301(R) (RLO-1388-13)
deuteron reactions (d,pf) with, anisotropy of fission fragments from, (E), 21:7721(R) (AECL-2611)
deuteron reactions (d,pf) with, fission probability in, 25:25757
deuteron reactions (d,pf) with, fission-fragment anisotropy in, (E), 21:4302
deuteron reactions (d,pf) with, research progress on, (E), 23:23746(R) (AECL-3257)
deuteron reactions (d,pf) with, steps in energy dependence of fission probability in, 24:8885 (IAE-1819)
diffusion in highly sintered aluminum oxide at 1200 to 1450°C, 22:11050
diffusion into wounds, use of x-ray spectrometry and lithium drifted silicon detectors for determining, 21:28430 (BNWL-SA-1261)
dissolution of, design of subcritical apparatus for, 22:166(P)
distribution and retention by lung tissues following inhalation, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution in air, of autoradiograms of filter samples for measurement of, 25:24152 (EUR-4594)
distribution in blood of dogs, 22:36204
distribution in bone and marrow of mice, effects of colloidal state of isotope on, 23:2919(R) (ANL-7409)
distribution in bone marrow and bone surfaces of rabbits following intramuscular and intravenous injection of plutonium nitrates, 25:16015
distribution in bone marrow and on bone surfaces following injection in rabbits, effects of age and injection route on, 23:38422
distribution in bone, liver, and spleen of rats, effects of castration on, 24:41720 (ANL-7635, pp 115-53)
distribution in bones and liver of dogs following intravenous administration, 25:23985(T) (AEC-tr-7195, pp 364-75)
distribution in cells following inhalation as oxide particles, method for localization of, using electron microscopic autoradiography, 24:33988 (BNWL-1050(Pt.1), pp 6.21-4)
distribution in clad uranium dioxide fuel rod at 27,700 to 42,500 MWd/t burnup, 24:21445(R) (GEAP-10121)
distribution in dogs, mice, rabbits, and rats, autoradiographic methods for quantitative measurements, 23:45603(T) (AEC-tr-6982)
distribution in epidermis of swine during surface contamination, 25:35092
distribution in hematopoietic tissues following intramuscular and intravenous injection, 25:44754
distribution in irradiated uranium oxide (UO$_2$) reactor fuel elements, metallorgraphic determination of, 23:6046
distribution in jackrabbits, kangaroo rats, plants, and soils after nuclear explosions, 24:4590 (UCLA-12-754)
distribution in liquid sodium coolant after 1000 to 3000 hr operation, 21:43644 (LA-3737)
distribution in Lithuania atmosphere at 30 to 200 m altitude, 1966 to 1968, 25:8372
distribution in liver, cytosol, and connective tissue of beagle dogs, 25:23990 (COO-119-242, pp 131-44)
distribution in lung tissues following inhalation, development of phantom for studies of, 25:57998 (NIRS-Pu-8)
distribution in lungs and skeletons of rats following inhalation of plutonium citrate aerosols, 24:25370
distribution in mice and rats, whole-body autoradiographic method for measurement of, 25:57998 (NIRS-Pu-8)
distribution in mice in relation to incidence of osteosarcomas, 23:2919(R) (ANL-7409)
distribution in organs and tissues, review of effects of administration route, age, and dose on, 25:8595(T) (LF-tr-41, pp 7-125)
distribution in organs of rats following inhalation and intramuscular injection, 25:8590 (CEA-CONF-1658)
distribution in rat tissues, 21:26554(R) (BNWL-370)
distribution in rat tissues following inhalation, ingestion, or skin puncture, whole-body autoradiography of, 25:51970 (NIRS-Pu-6)
distribution in rat tissues, following inhalation or injection in oxide particles, 24:25368 (BNWL-1221, pp 5.1-33)
distribution in rats following inhalation of compounds, 22:14954
distribution in sediment cores and waters from Atlantic Ocean and Mediterranean Sea, measurement of vertical, 25:34759(R) (NYO-2174-129)
distribution in skin following surface contamination, kinetics of, 25:42257
distribution in stratosphere from nuclear explosions, 21:17739(R) (AD-642279)
distribution in tissues of dogs and rats, 23:47924(R) (UH-235-P-8-X-2)
distribution in tissues of dogs following inhalation of plutonium oxide-incorporated, 25:26599
distribution in tissues of dogs following inhalation of labeled plutonium oxide particles, 23:6339 (BNWL-714, pp 3.1-38)
distribution in tissues of dogs, whole-body counting of, 23:14152 (BNWL-SA-2205)
distribution in tissues of mice, autoradiographic study of, 23:2919(R) (ANL-7409)
distribution in tissues of mice, autoradiographic study of effects of time on, 23:24631
distribution in tissues of mice, effects of DTPA therapy on, 21:34577
distribution in tissues of mice, effects of particle size on, 23:2919(R) (ANL-7409)
distribution in tissues of mice, effects of physical form on, 24:41892 (ANL-7635, pp 186-99)
distribution in tissues of rats following inhalation as oxide aerosols, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution in tissues of rats, effects of citrates on, 24:581
distribution in tissues of swine following ingestion of labeled plutonium oxide particles, 23:6340 (BNWL-714, pp 4.1-24)
distribution in uranium oxide (UO$_2$) fuel elements, effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
distribution of inhaled particles of, in tissues of man, 21:32635 (BNWL-SA-1220)
distribution of inhaled, in dogs, 21:14536 (BNWL-280, pp 45-7)
distribution of injected tetravalent, in dogs, 25:29627
distribution of oxide particles of, following inhalation by rabbits, role of pulmonary macrophages in, 25:18891(T) (LF-tr-46)
distribution of oxide particles of, in tissues of dogs following inhalation, development of dynamic simulation model using computer calculations for determination of, 25:21546 (CONF-700816-(Vol.2), pp 721-37)
distribution of plutonium oxide-incorporated, in subcellular organelles of rats, electron microscope autoradiographic measurements of, 23:4889
distribution of PuO$_2$-incorporated, in lungs of dogs and rats, measurement of particle size for, 23:12035
distribution of, oxide of, following subcutaneous injection in swine, 21:14561 (BNWL-280, pp 83-5)
distribution on Tonopah Test Range of Nevada Test Site, detection of changes in surface, 23:24309 (NVO-162-28)
distribution tables for contaminant, in liquid sodium and on stainless steel, 21:42729(R) (LA-3745)
Doppler coefficient in ZPR-3 fuel plates, (T), 24:33439
Doppler coefficients for, values for, 23:15727 (ANS-RPD-1, Paper 2)
dosimetry in bones and bone marrow of rabbits, 25:44805
dosimetry in man, use of americium-241 as tracer for, 21:36566 (BNWL-SA-997)
effects and toxicity in dogs following injection, tables for, 23:11976 (COO-119-237, pp 7-83)
effects of inhaled oxide aerosols of, in dogs, chronic, 21:14536 (BNWL-280, pp 45-7)
effects of inhaled oxide aerosols of, on excretion of taurine in dogs, 21:14535 (BNWL-280, pp 47-9)
effects of inhaled oxide aerosols of, on lymphocyte destruction in dogs, 21:14535 (BNWL-280, pp 47-9)
effects of injected, in dogs, pathological, 21:24542 (COO-119-235, pp 71-5)
effects of plutonium nitrate-incorporated, on free nucleotide metabolism in liver of rabbits, 21:6424
effects on activity of acid phosphatase in alveolar macrophages of rabbits following inhalation in oxide form, α and γ, 24:50706 (CEA-R-3978)
effects on animals, review of toxic, 25:8594(T) (LF-tr-41)
effects on beagle dogs in comparison to effects of radium-226, effects of dose on mechanism of lethal, 24:32204
effects on blood and bone marrow cells in rats following single or chronic inhalation, 25:24324(T) (AEC-tr-7195, pp 347-53)
effects on blood chemistry in beagles, effects of dose and time on, 24:542 (COO-119-240, pp 243-61)
effects on blood oxygenation following inhalation by rats, α and γ, 23:17947
effects on blood serum chemistry in Beagle dogs following injection, statistical analysis of effects of deposition site, dose, and time on α, 23:38795
effects on blood serum constituents in dogs following intravenous injection, 23:26886
effects on blood vessels in bones of Beagle dogs following injection, effects of dose on pathological α, 23:38797
effects on bone and liver of beagles following injection, carcinogenic, 24:838 (COO-119-240, pp 262-74)
effects on bones of Beagle dogs following injection, comparison of RBE for, with other bone-seeking radioisotopes, α, 23:38800
effects on bones of beagle dogs following intravenous injection, RBE for carcinogenic, in relation to radium-226, 24:34031
effects on bones of beagle dogs, carcinogenic, 25:24336 (COO-119-242, pp 385-401)
effects on bones of dogs and man, latent carcinogenic α and γ, 23:29734 (CONF-690404-3)
effects on bones of dogs, calculation of accumulated skeletal dose and tumor growth dynamics for, 25:29621 (COO-119-243)
effects on bones of dogs, RBE for carcinogenic α, 23:50833 (PHS-999-RH-33, pp 59-60)
effects on bones of man, estimation of dose for carcinogenic, 24:34031
effects on bones of rats following injection, comparison of effects of dose on neoplastic monomeric and polymeric α, 23:38801
effects on bones of rats following injection, latent neoplastic α, 23:38802
effects on bones, carcinogenic, 25:37719 (EUR-4612, pp 187-204)
effects on bones, oncogenic α, 23:20405
effects on calcium and phosphorus metabolism on rabbit bones, 21:34593
effects on composition of peripheral blood, incidence of osteoma, and life span of rats alone or in combination with cerium-144, 25:24323(T) (AEC-tr-7195, pp 339-46)
effects on development of osteosarcomas in beagle dogs following intravenous injection, effects of time on RBE for, 24:837 (COO-119-240, pp 86-96)
effects on development of sarcomas in rats, effects of castration on, α and γ, 23:45885 (ANL-7535, pp 28-31)
effects on dogs and rats following inhalation, carcinogenic, 25:6662 (BNWL-SA-3552)
effects on dogs following inhalation as fluoride, nitrate, or oxide particles, effects of dose and time on pathological, 25:21836 (CONF-700816-(Vol.2), pp 697-720)
effects on dogs following inhalation of plutonium oxide-incorporated, pathological α and γ, 23:6339 (BNWL-714, pp 3.1-38)
effects on dogs following inhalation, pathological, 24:25363 (BNWL-1221)
effects on dogs, pathological, following intravenous injection, 21:24287 (COO-119-235, pp 4-70)
effects on femoral bones of neonatal, weanling, and adult rats, 24:23084 (CONF-690501-, pp 567-76)
effects on growth and development of algae, bacteria, and microorganisms in reservoirs, 23:6218
effects on growth of benign breast tumors in rats following subcutaneous injection, α and γ, 23:2919(R) (ANL-7409)
effects on growth of bone sarcomas in rats following subcutaneous injection, α and γ, 23:2919(R) (ANL-7409)
effects on hematopoiesis, life span, and pathology of animals, review of effects of administration route on, 25:8596(T) (LF-tr-41, pp 127-97)
effects on hematopoietic system in beagles following intravenous injection, effects of time on, 24:818 (COO-119-240, pp 224-42)
effects on hemodynamics and red blood cells in rats following single or chronic inhalation, 25:24325(T) (AEC-tr-7195, pp 354-63)
effects on hemosiderin in bone marrow of rabbits, α and γ, 23:33636
effects on human bones, carcinogenic α and γ, 25:8674(T) (LF-tr-41, pp 199-220)
effects on incidence of leukemia and sarcoma in rats, effects of time course of injections on, 21:16486
effects on incidence of neoplasms in human lungs following inhalation of insoluble aerosols, 23:29826 (UCRL-50387(Add.))
effects on incidence of osteosarcomas in beagle dogs following intravenous injection, 25:57918
effects on leukocyte count in Beagle dogs following injection, comparison of radium-226 with α, 23:38796
effects on leukocyte count in blood of beagle dogs following injection, 24:39572
effects on leukocytes and lymph nodes of dogs following inhalation, 25:26929
effects on leukocytes in dogs, lethal, 25:29627
effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
effects on lungs of beagle dogs, effects of dose on carcinogenic, 25:37710 (A/CONF.49/P-81)
effects on lungs of dogs following inhalation as aerosols or dusts, carcinogenic and toxic, 25:23989 (BNWL-SA-3469)
effects on lungs of dogs following inhalation, morphology of long-term carcinogenic, 25:32527 (CONF-700501-, pp 147-60)
effects on lungs of rats following inhalation of compounds of ammonium plutonium pentacarbonate and plutonium citrate, 23:24727
effects on lungs of rats following intratracheal administration, α and γ, 23:31932
effects on lymph nodes and lungs in beagle dogs following inhalation, carcinogenic, 25:32530 (CONF-700501-, pp 417-36)
effects on man and mice, carcinogenic α and γ, 24:7941
effects on man following contamination of atmosphere by testing of nuclear weapons, 23:45943
effects on man in comparison to Thorotrast following implantation in skin, histopathological α and γ, 23:26931
effects on protein synthesis in liver of mice, combined effects of fibroplastic dust on inhibitory α, 23:35640
effects on rat embryos following maternal injection, 24:23074 (CONF-690501-, pp 153-60)
effects on rat lungs, α and γ, 23:22165(T) (AEC-tr-6944, pp 122-30)
effects on rats following ingestion, effects of dose on late neoplastic α, 23:38794
effects on rats following inhalation, protective effects of DTPA against α and γ, 23:8039
effects on rats following injection, effects of age and physiochemical form on metabolic and pathogenic, α and γ, 24:34617 (BNWL-1050(Pt.1), pp 4.3-6)
effects on rats following subcutaneous injection, effects of castration on carcinogenic, 25:37866 (ANL-7770, pp 48-54)
effects on rats, combined effects of cerium-144 and strontium-90 on α and γ, 23:22382(T) (AEC-tr-6944, pp 441-52)
effects on rats, combined effects of stress on long-term α and γ, 23:22386(T) (AEC-tr-6944, pp 484-92)
effects on rats, effects of DTPA treatment on, 21:18007
effects on rats, long-term combined effects of cerium-144 and strontium-90 on α and γ, 23:22383(T) (AEC-tr-6944, pp 453-62)
effects on rats, protective effects of pentacin against tumorigenic α and γ, 23:2874

effects on reactivity of bare plutonium-239 critical sphere, analysis of, (E/T), 22:35636
effects on respiratory tract of dogs, following inhalation, pathological, 24:25557 (BNWL-1221, pp 6.1-61)
effects on root canal in teeth of dogs following intravenous injection, α and γ, 24:864
effects on soft tissue in Beagle dogs following injection, latent neoplastic, 23:38804
effects on structure of alveoli in rat lungs following inhalation as oxide, 25:32539
effects on survival of dogs and rats following inhalation of labeled plutonium oxide particles, effects of particle size on α and γ, 23:6340 (BNWL-714, pp 4.1-24)
effects on survival of dogs following inhalation of plutonium nitrate ($Pu(NO_3)_4$)-incorporated, α and γ, 23:6339 (BNWL-714, pp 3.1-38)
effects on ultrastructure of peritoneal mononuclear phagocytes in rats, 23:22419
electron binding energy in, effects of external electrostatic field on L_3 conversion, 21:42617
electron reactions at 20 to 60 MeV, neutron yields from, (E), 22:32584
elimination from rats, effects of DTPA on, 23:22271(T) (AEC-tr-6944, pp 592-8)
encapsulation for use in reactor neutron flux measurements, 24:41615(R) (ORNL-TM-3089)
energy levels at 0.297 eV and negative energy, average total kinetic energy of fragments from plutonium-239 neutron fission at 0.001 to 1.0 eV for parity and spin of, (E), 25:50730
energy levels from curium-243 decay, (E), 21:12068
energy levels from gamma inelastic scattering, (E), 25:56738 (JINR-P15-5959)
energy levels of, calculation for transition probabilities for, (T), 23:37239
energy levels of, calculation using single-particle eigenfunctions in deformed potential well, 24:47659
energy levels of, K = 1/2 rotational, (T), 22:20664
energy levels of, shell-model calculation of γ transition probabilities for, 24:28742
energy transfer by alpha particles of, to subcellular units, 23:12037
energy-level spins and parities from neutron fission and radiative capture reactions to 100 eV, (E), 21:31819
energy-level transitions in, K, L, and M conversion coefficients for E1, (T), 21:31789
excretion and retention time in man following acute or chronic intake, method for calculation of, 25:57919
excretion by man following intravenous injection, analysis of feces, nasal smears, and urine for measurement of rate of, 23:14152 (BNWL-SA-2205)
excretion by man, method for statistical evaluation of, 22:38266 (UCRL-18140, pp 123-43)
excretion by rats, effects of dehydrocholic acid, DTPA, and pilocarpine on enhancement of, 25:57998 (NIRS-Pu-8)
excretion by rats, use of ligands of DTPA to promote, 23:35620
excretion from bones and liver of rats, half-life for, 25:23986(T) (AEC-tr-7195, pp 376-87)
excretion in bile following inhalation in plutonium nitrate particles by dogs, 23:6339 (BNWL-714, pp 3.1-38)
excretion in urine by man, methods for calculation of safe limits of, 22:6811
excretion in urine, relation of, to content and uptake by man, 24:39505 (ORNL-4446, pp 279-98)
excretion of, effects of DTPA on, in man, 21:6400(T) (CONF-660412-7)
fallout at Melbourne, Australia, May to Nov. 1966, effects of SNAP-9A reentry burnup on, 21:41019(R) (HASL-182)
fallout at selected U.S. stations, 1965 to 1966, 21:41019(R) (HASL-182)
fission by fast neutrons, yields of 45 mass chains from, 23:23910(R) (IN-1277)
fission by fast neutrons, yields of antimony-125 from, 23:23910(R) (IN-1277)
fission by fast neutrons, yields of stable and long-lived products from, 23:23910(R) (IN-1277)
fission by thermal neutrons, charge distribution in 133—135 chain from, 24:29308(R) (BMBW-FBK-70-4)
fission by thermal neutrons, normalized yields from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of 43 mass chains from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of 95, 97, and 99 mass chains from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of antimony-125 from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of bromine, iodine, and tellurium isotopes from, 24:29308(R) (BMBW-FBK-70-4)
fission by thermal neutrons, yields of stable and long-lived ruthenium isotopes from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of stable isotopes of samarium from, 23:23910(R) (IN-1277)
fission cross section ratio measurements from 0.24 to 24 keV, 24:47818 (ANL-7610, pp 61-258)
fission of isomeric, half-life for, 24:30788
fission of isomeric, half-life for delayed, (E), 23:42938
fission of isomeric, half-life for spontaneous, (E), 24:8891 (RLO-1388-107)
fission of isomeric, half-life for spontaneous, (E), 25:56801
fission of isomers of, spontaneous, (E), 25:15046
fission of μ-mesic atoms of, probability ratio of nonradiative and ordinary, (E), 23:3997 (JINR-P1-4051)
fission of, absolute yield of delayed neutrons from, 24:18901(R) (LA-4320)
fission of, activity of products from, (T), 23:42960(T) (ORNL-tr-2034)
fission of, channel calculation of spin and energy dependence of widths for, (T), 24:35884
fission of, detection by analysis of recent fallout for ratio of barium-140 to cesium-136, 21:26554(R) (BNWL-370)
fission of, energy-dependent neutron yield for, 25:10025 (INDC(NDS)-19/N)
fission of, fragment mass, energy, and radiation emission characteristics from thermal, (E), 24:15876
fission of, half-lives of products from, 23:49948 (BNWL-1051(Pt.2), pp 108-10)
fission of, meson (μ^-) internal conversion coefficients for radiationless fragments of, (T), 24:22203
fission of, product decay from fast, 21:26876(R) (LA-3686)
fission of, summary of neutron yields from, (E), 25:20363 (AWRE-O-86/70)
fission of, tabulated data on γ activity of products from spontaneous, 24:30809
fission of, yields from, 23:9 (IN-1203, pp 67-8)
fission of, yields of molybdenum from, 21:21873
fission parameters of, review of research programs for, 24:20621(T) (EURFNR-679)
fission product concentrations and heat generation in fast reactors fueled with, calculation of, 23:23912 (KFK-722)
fission product γ activity ratio to uranium-235 activity, (E), 25:48342 (JAERI-Memo-4329)
fission products from, decay, growth, and release curves for gaseous, 23:47664 (UCRL-50656)
fission products of, activity of, (T), 22:29991
fission rate in low-enriched fuel elements, use of ruthenium-106 gamma spectra for estimation of, (E/T), 24:29092 (AE-390)
fission resonance integrals of, 22:16316(R) (GEAP-5505)
fission yields from irradiated fuel elements, gamma spectrometric determination of, 21:17562 (AE-267)
fission-product beta decay energy, (E), 24:18431
gamma dose rates from, in plutonium dioxide, 22:31060 (MLM-1460)
gamma emission by, effects of, on blood of rats, 22:49503
gamma emission by, effects of, on radiation dose to beagle dogs following inhalation of aerosols, 22:23503 (BNWL-SA-1540)
gamma emission by, effects of, on synthesis of androgen in beagles, 22:43244
gamma emission by, tumorigenic effects of, on bones of dogs following injection, 22:47581
gamma spectra of, 22:14433 (ORNL-4196, pp 66-89)
gamma spectra of, nuclear materials safeguards measurements on, 23:16062(R) (GA-9077)
gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
gamma spectra, (E), 25:17861 (IN-1448(Rev.))
half life of isomeric, (E), 24:35872
half-life and specific power of, calorimetric determination of, 22:30788
half-life of, isothermal calorimetric measurement of, 25:10779
handling of, economic aspects of, 21:40656 (UCID-15191)
handling of, for x-ray fluorescence analysis, nylon-pouch method for, 21:16359
helium ion fission at 21.5 and 32.0 MeV, mass distributions and cross sections for, (E), 21:10038
helium ion fission at 32.0 MeV, fission-product charge distributions and yields in, (E), 21:10037
helium-3 reactions (He-3,p2n) at 30 MeV with fission isomer excitation, cross section for, (E), 24:30788
helium-3 reactions at 30 MeV, cross sections for fissioning isomer production in, (E), 23:42938
hyperfine structure anomaly of, from s electron, 25:2893
incorporation in hair of rabbits, effects of dose on rate of, 25:55116
inhalation as plutonium dioxide particles by man, effects of particle number and size on risks of, 24:29738 (NP-18208)
inhalation by beagle dogs in relation to taurine content of urine, 22:10825 (BNWL-480, pp 55-83)
inhalation by beagles, analysis of fecal excretion data following, 23:24539
inhalation by man following exposure to fresh fallout, dose to respiratory tract from, 22:33821
inhalation by man, derivation of equations for radiation dose and tissue burden from, 22:51566 (IDO-12067)
inhalation by man, effects of self-shielding characteristics of thorax on, 23:38589
inhalation by man, hazards from, 22:40678
inhalation by man, management of contamination by, 23:14179
inhalation by personnel, hazards to bones and liver following occupational, 25:11301
inhalation by rats in relation to survival, 22:10825 (BNWL-480, pp 55-83)
inhalation following Palomares nuclear accident, α and γ radiation dose to man from, 22:43318
inhalation in relation to α-radioinduced neoplasms in lungs of beagles, 22:10825 (BNWL-480, pp 55-83)
inhalation of insoluble, radiation dose to lungs and pulmonary lymph nodes of man following acute or chronic, 25:58001 (UCRL-73388)
inhalation of plutonium oxide-incorporated, by dogs and rats, localization of particles following, 24:50687(R) (UH-235-P-8-X-3)
inhalation of, alpha dosimetry in bronchial epithelium following, 25:42394(R) (NYU-4256-1)
inhalation of, by rabbits, effects on metabolism of polysaccharides in lungs, 24:51051
inhalation of, relative hazards from, 24:31973
injection into finger during glove box procedure, accidental, 22:21552
isotopic shift measurements for, 22:13250
lifetime retention in soft tissues of mice, effects of monomeric and polymeric forms on, 25:37711 (ANL-7770, pp 149-56)
magnetic moment, (E), 21:10010 (UCRL-16999)
meson (μ^-) fission of, fragment spectra and probability of radiationless fission relative to μ^--capture fission in, (E), 25:48085
meson (π^-) capture by, x-ray spectra from, (E), 21:3657
metabolism by rats, comparison of different salts, 23:22165(T) (AEC-tr-6944, pp 122-30)
metabolism by swine, 22:14925
metabolism following injection in dogs, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
metabolism following sorption through intact skin of rabbits, 23:22162(T) (AEC-tr-6944, pp 99-105)
metabolism in animals, 23:50279 (PHS-999-RH-33, pp 45-50)
metabolism in animals and man, 22:38194(R) (EUR-3917)
metabolism in animals and man following inhalation of aerosols, effects of physico-chemical form on, 25:37718(R) (EUR-4527)
metabolism in bones of Beagle dogs, effects of dose-level on, 23:38423
metabolism in dogs, monkeys, and rats, comparison of, with americium-241, 23:14152 (BNWL-SA-2205)
metabolism in mammals and man, review of, 25:32326
metabolism in man in relation of route of entry, 24:7941
metabolism in man, effects of DTPA on, 23:24547
metabolism in mice in relation to toxicity, 23:2919(R) (ANL-7409)
metabolism in rats following inhalation of compounds, 22:14954
metabolism in rats, combined effects of chelates, diuretics, and epinephrine on, 25:6617(T) (AEC-tr-7169, pp 205-9)
metabolism in rats, effects of adrenalin, diuretics, and EDTA on, 22:12787
metabolism in rats, following ingestion, kinetic of, 23:17941
metabolism in swine, effects of administration route on, 22:47468
metabolism in tissues and organs of rats following chronic inhalation in citrate form, 25:23965(T) (AEC-tr-7195, pp 153-60)
metabolism of plutonium nitrate-incorporated, in rabbits, after intramuscular and intravenous injection, 23:38406
metabolism of polymeric, in mice, 23:45721 (ANL-7535, pp 60-5)
metabolism of, in rats, effects of dietary diethylaminoazobenzene, ethionine, and N-2-fluorenyldiacetamide on, 21:14526 (BNWL-280, pp 18-19)
monitoring following noncritical detonation of nuclear weapons, 24:29700 (UCRL-50639)
monitoring in air in presence of radon and daughters, alpha monitor for, 22:2349 (ORNL-TM-2011)
monitoring in air, design of alpha—beta detector for radon discrimination during, 23:29165
monitoring in air, design of combined detector and sampler for, 25:57998 (NIRS-Pu-8)
monitoring in air, design of semiconductor detector air sampling system for, 22:30843
monitoring in Australia and North and South America during 1965 to 1969, fallout, 24:21100(R) (HASL-217(App.))
monitoring in human lungs, design of detector for in vivo, 21:12951(R) (LA-3610)
monitoring in Ispra and Milan during 1968, fallout, 23:50459(R) (HASL-204)
monitoring in large areas following accidents, review of, 24:29738 (NP-18208)
monitoring in personnel, suggested basis for routine use of urine sampling for, 21:18061
monitoring in PRTR plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel element failure on September 29, 1965 of, analysis of, 22:32744 (BNWL-SA-668)
monitoring of airborne, description of alpha semiconductor detector for, 21:26161 (UCRL-50228)
monitoring of fallout, in surface air samples at selected worldwide sites during 1965 to 1968, 23:24612(R) (HASL-207(App.))
monitoring of surface air at selected world sites during 1963 to 1969, fallout, 23:48043 (HASL-214(App.))
monitoring of, development of scintillation detector for, 22:30825(R) (UCRL-50007-67-3)
monitoring on surfaces with overburden, x-ray to gamma ratios for, 23:50483 (UCRL-50007-69-1, pp 6-13)
neutron absorption and capture cross sections for reactor-spectrum and 0.025-eV neutrons, 21:5538
neutron absorption and fission cross sections at 0.01 eV to 30 keV, (E), 22:48423 (RPI-328-133, pp 1-34)
neutron absorption and fission cross sections at 0.01 eV to 30 keV, (E), 23:7281(R) (ORNL-4280)
neutron absorption and fission cross sections at 0.02 eV to 30 keV, (E), 24:3924 (ORNL-TM-2598)
neutron absorption at 2 keV, eta value for, (E), 24:33155
neutron absorption by, eta measurements using reactivity data, 21:42610 (IN-1060)
neutron absorption by, γ energies and intensities from thermal, (E), 25:41250
neutron absorption cross section at 0.01 eV to 30 keV, (E), 23:37234
neutron absorption cross section at 0.02 eV to 30 keV, (E), 24:35868
neutron absorption cross section at 24 keV, measurement using transmission method in spherical geometry, (E), 22:18288
neutron absorption cross section for, determination using calculated flux spectrum of NRU reactor, 24:49849 (AECL-3519)
neutron absorption in Doppler resonance regions, shielding factors for, (T), 25:10038
neutron absorption in homogeneous mixtures with uranium-238, resonance shielding factors for, (T), 23:46907
neutron absorption rates for, evaluation from activation rate measurements, (T), 23:3921
neutron capture and fission at 0.02 eV to 30 keV, cross sections for, (E), 25:46061
neutron capture and fission at 0.1 to 50 keV, relative cross sections for, (E), 25:46062

neutron capture and fission cross sections and resonance integrals at 0.005 to 23 keV, (E), 22:42011(T) (BNL-tr-219)
neutron capture and fission cross sections at 0.025 to 15 MeV, evaluation for ENDF/B library, 24:15871 (ORNL-TM-2797)
neutron capture and fission cross sections at 0.1 to 90 keV, data evaluation for, (T), 22:53168 (JAERI-1162)
neutron capture and fission cross sections at 130 to 1400 keV, ratio of, (E), 24:43322
neutron capture and fission cross sections from thermal to 30 keV, (E), 22:20576 (ORNL-TM-2159)
neutron capture and fission cross sections from thermal to 30 keV, (E), 23:1882 (WASH-1093)
neutron capture and fission cross sections of, resonance overlap effects on fast, (T), 21:7674
neutron capture and fission resonance integrals at 10 to 100 keV, single-level and multilevel calculations of infinitely dilute, (T), 23:17108
neutron capture and fission resonance integrals at 0.005 to 20 keV, (E), 22:37364
neutron capture at 0.1 to 30 keV, ratio of cross sections for fission and radiative, (E), 25:56734(T) (BNL-tr-446)
neutron capture at resonance energies, γ spectra from, (E), 24:40550 (WASH-1136)
neutron capture at resonance energies, low-energy γ-ray intensities from, (E), 25:48069 (BNL-50276)
neutron capture by, cross section for fast, (E), 25:36756
neutron capture by, cross sections for, (E), 24:38210 (JINR-P3-4992)
neutron capture by, γ spectra from, (E), 25:14982 (NCSAC-31)
neutron capture by, high-energy γ spectra from, (E), 25:15078
neutron capture by, interference effects in average cross section for, (T), 25:12608
neutron capture by, production of californium-252 in, 23:31359 (CONF-681032-, pp 11-21)
neutron capture cross section of, error analysis for, 22:32970(R) (GEAP-5584)
neutron capture cross sections at 0.02 to 30 keV, (E), 25:56746 (ORNL-4707)
neutron capture cross sections for, 24:1841
neutron capture cross sections for, 21:24833 (GEAP-5433)
neutron capture cross sections for, effect on breeding ratios and fissile loadings of fast reactors of increases in, (T), 23:17182 (ORNL-TM-2459)
neutron capture cross-sections for, KFK-SNEAK group set for recalculation of, 23:9131(T) (EURFNR-533)
neutron capture to fission cross sections at 0.009 to 15 MeV, (E/T), 25:23361
neutron capture to fission cross sections at 0.1 to 30 keV, (E/T), 25:41512
neutron capture to fission ratio at thermal energies, (E), 25:15070
neutron capture to fission ratio for, (E), 24:46013 (BNL-50205, pp 1-15)
neutron capture to fission ratio in, integral measurements of fast, (E/T), 25:15348
neutron capture to fission ratio in, null-reactivity measurements of, (E/T), 24:22502
neutron capture to fission ratio measurements in STSF-1A, 25:8116(R) (GA-9027)
neutron capture to fission ratios at 0.2 to 25 keV, (E), 24:1721(R) (RPI-328-162)
neutron capture to fission ratios for reactor-spectrum and 0.025-eV neutrons, 21:5538
neutron capture-to-fission cross section ratio at 0.1 to 10 keV, (E), 24:38217 (UCRL-72454)
neutron capture-to-fission ratio above 1 keV, measurements of, (E), 23:23671 (CEA-N-989)
neutron capture-to-fission ratio as function of position in EBR-II, (E/T), 22:53165 (ANL-7425, pp 190-2)
neutron capture-to-fission ratio at 0.005 to 23 keV, measurements using time-of-flight method, (E), 22:37364
neutron capture-to-fission ratio at 0.005 to 23 keV, (E), 22:42011(T) (BNL-tr-219)
neutron capture-to-fission ratio at 0.01 to 25 keV, (E), 23:13265 (RPI-328-142, pp 1-67)
neutron capture-to-fission ratio at 0.01 to 30 kev, (E), 22:35285(R) (AERE-PR/NP-13)
neutron capture-to-fission ratio at 0.01 to 30 keV, method for measuring, (E), 22:35345
neutron capture-to-fission ratio at 0.01 to 30 keV, (E), 23:1881 (ORNL-TM-2364)
neutron capture-to-fission ratio at 0.1 to 10 keV, (E), 25:15074
neutron capture-to-fission ratio at 0.1 to 30 keV, 25:36748
neutron capture-to-fission ratio at 0.1 to 30 keV, (E), 24:49856 (JINR-P3-5113)
neutron capture-to-fission ratio at 0.1 to 30 keV, (E), 25:50740
neutron capture-to-fission ratio at 0.1 to 30 keV, radiative, (E), 25:15075
neutron capture-to-fission ratio at 0.1 to 30 keV, (E), 25:15073
neutron capture-to-fission ratio at 0.1 to 30 keV, (E), 25:38989(T) (LB/G-2876)
neutron capture-to-fission ratio at 0.454 to 24.8 keV, measurements using lattice reactivity experiments, (E), 22:32589
neutron capture-to-fission ratio at 1 to 20 keV, average characteristics of, (T), 24:52549(T) (BNL-tr-367)
neutron capture-to-fission ratio at 10 to 1000 keV, (E), 22:18298
neutron capture-to-fission ratio at 20 to 500 keV, (E), 25:12511 (CEA-N-1368)
neutron capture-to-fission ratio at intermediate energies, integral measurement of, (E), 25:5772
neutron capture-to-fission ratio for, (E), 24:38229
neutron capture-to-fission ratio for, accuracy of values for, 25:15072
neutron capture-to-fission ratio for, calculation using channel theory, (T), 22:20655
neutron capture-to-fission ratio for, effects on fast breeder reactor performance of, 22:32791
neutron capture-to-fission ratio for, effects on fast reactor kinetics of uncertainties in, (T), 24:46019
neutron capture-to-fission ratio for, epithermal, (E), 25:31353
neutron capture-to-fission ratio for, resonance, (E), 22:42016 (KAPL-P-3438)
neutron capture-to-fission ratio for, thermal and epithermal, (E), 21:5527 (AECL-2618)
neutron capture-to-fission ratio for, thermal and resonance, (E), 23:1882 (WASH-1093)
neutron capture-to-fission ratio for, thermal, (E), 22:44680(R) (IN-1189)
neutron capture-to-fission ratio in, 22:53454 (BNWL-828)
neutron capture-to-fission ratio in fast PCTR spectra, integral measurements of, (E), 22:35288 (BNWL-774)
neutron capture-to-fission ratio in fast reactors, methods for measuring, 21:21536
neutron capture-to-fission ratio in plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) core, (E), 25:44096 (ANL-7710, pp 53-262)
neutron capture-to-fission ratio in reactor spectrum, (E), 25:41243
neutron capture-to-fission ratio in, development of fission chamber for measuring, 21:28191 (AEEW-R-514)
neutron capture-to-fission ratio measurements for, use of reactivity-reaction rate method for, 23:37756
neutron capture-to-fission ratio measurements in EBWR, 23:37755
neutron capture-to-fission ratio measurements in fast reactor spectra, (E/T), 22:35650
neutron capture-to-fission ratio of, 24:1841
neutron capture-to-fission ratio of, calculation in the unresolved resonance region, (T), 24:22205
neutron capture-to-fission ratio up to 30 keV, (E), 23:7281(R) (ORNL-4280)
neutron capture-to-fission ratios at 20 to 600 keV, (E), 21:5535 (ORNL-P-2599)
neutron capture-to-fission ratios for, 23:49398 (WASH-1127)
neutron capture-to-fission ratios for, 25:39470(R) (ANL-7750)
neutron capture-to-fission ratios for, effects of EBR-II core position on, (E), 25:56982 (ANL-7791)
neutron capture-to-fission ratios in EBR-II, position-dependent, (E/T), 22:27086 (ANL-7375, pp 176-7)
neutron capture-to-fission ratios in fast reactors, measurement of effective, (E/T), 24:33248
neutron capture-to-fission ratios in fast reactors, (E/T), 24:33247
neutron capture-to-fission ratios in ZPR-VI, (E), 21:7923
neutron capture-to-fission ratios in, in EBR-II, 21:25935(R) (ANL-7225)
neutron capture-to-fission up to 15 keV, review of data on, 25:59812
neutron cross section analysis of, computer program for, 22:25075 (APDA-201)
neutron cross section calculation using critical assembly data, 21:27667(R) (GA-5808)
neutron cross section data on, tables of multigroup, 25:28657 (HEDL-TME-71-36)
neutron cross section for, comparison of calculations and integral measurements of, 24:6885 (LA-3529)
neutron cross section for, measurements of capture-to-fission, 21:46952
neutron cross section of, effects of irradiation flux spectra on effective, (T), 24:2012 (AECL-3364)
neutron cross section ratios as a function of fuel burnup of, correlation of effective, 22:12085 (BNWL-472, pp 3.1-33)
neutron cross section variations in, use of manganese bath technique in MTR for measuring, 23:26086 (IN-1218, pp 1-56)
neutron cross sections and eta values at 0.01 to 30 keV, (E), 22:18291
neutron cross sections and resonance parameters, 21:35457 (AEET-272)
neutron cross sections and resonance parameters for, data evaluations for, 22:35295 (TPM-RFR-682)
neutron cross sections and resonance parameters from cadmium cutoff to 10 keV, 21:29962 (NAA-SR-11980(Vol.5))
neutron cross sections and self-shielding factors at 0.004 to 20 keV, (E), 21:4305
neutron cross sections at 0.001 to 10 MeV, compilation of fast, 21:23441 (KFK-120)
neutron cross sections at 0.001 to 14 MeV, data compilation on, 22:50599 (LA-3528)
neutron cross sections at 0.01 to 10 keV in fuels of, mixed intermediate spectrum assembly measurements of, (E/T), 24:16249
neutron cross sections at 0.01 to 10 MeV, mathematical scheme for evaluation of, (T), 23:5893
neutron cross sections at 0.01 to 15 MeV, (T), 25:15133
neutron cross sections at 0.014 to 1000 keV, (E), 25:15091
neutron cross sections at 0.037 eV to 18 MeV, tables of, 21:27579 (UNC-5099)
neutron cross sections at 1 to 10 MeV, calculations using local spherical optical model, (T), 22:35349
neutron cross sections for, accuracy of dg/dT data for, 24:49673 (AECL-3605)
neutron cross sections for, calculation of 0.001 to 9 eV, 23:17265(R) (GA-9051)
neutron cross sections for, calculation of effective, 23:13504(R) (GA-6742)
neutron cross sections for, calculation of uranium-238 resonance cross shielding, (T), 25:1954 (BNWL-1509)
neutron cross sections for, comparison of ENDF/B data sets on, 24:46011(R) (AI-AEC-12969)
neutron cross sections for, compilation of, 21:13783 (GEAP-5272)
neutron cross sections for, compilation of resonance and thermal, 21:23441 (KFK-120)
neutron cross sections for, effects on LMFBR fuel depletion and management calculations of large variations in, 23:28441 (BAW-3867-7)
neutron cross sections for, evaluated, 21:19151 (NAA-SR-Memo-12315)
neutron cross sections for, evaluation using least-squares method of correcting for integral data, (T), 22:35344
neutron cross sections for, library of 16-group, 21:2584 (NAA-SR-Memo-11907)
neutron cross sections for, modification of ENDF/B representations of, 24:40620 (WCAP-7365)
neutron cross sections for, number of resonances necessary for calculating s-wave, (T), 25:20395
neutron cross sections for, resonance parameters for evaluating self-shielding effects on, (T), 22:32626
neutron cross sections for, thermal, 23:37233
neutron cross sections in fast reactors, effect of interaction between plutonium-239 and uranium-238 resonances on, 21:7694 (IA-1082, pp 27-74)
neutron cross sections spectrum-averaged from 0.001 to 10 keV, (E/T), 23:52478 (AEEW-R-586)
neutron cross-section calculations for, accurate g-factors for thermal, (T), 24:1720 (AECL-3255)
neutron differential elastic scattering cross sections at 0.3 to 1.5 MeV, (E), 21:25518 (WASH-1071)
neutron elastic and inelastic scattering and fission at 2, 3, and 4 MeV, secondary neutron spectra for, (E), 23:52141 (AWRE-O-55/69)
neutron elastic and inelastic scattering at 1.5 to 5.5 MeV, angular distributions and differential cross sections for, (E), 24:22183
neutron elastic scattering at 0 to 660 eV, spin of resonances induced by, (E/T), 25:15088
neutron elastic scattering at 0.19 to 0.38 MeV, angular distributions and cross sections for, (E), 24:1840
neutron elastic scattering at 0.5 to 2.0 MeV, evaluated angular distributions for, (E), 21:31736 (NAA-SR-11980(Vol.4))
neutron elastic scattering at 41.5 to 118 eV, cross section and resonance parameters for, (E), 24:52583
neutron elastic scattering by, Legendre expansion coefficients of angular distributions for fast, (T), 22:22523 (NAA-SR-12533)
neutron elastic scattering cross sections for, from 1 to 200 eV, 23:26086 (IN-1218, pp 1-56)
neutron escape from subcritical bare sphere of, calculation of time-dependent, 24:5770
neutron fission and radiative capture to 100 eV, cross sections and level parameters from, (E), 21:31819
neutron fission and total cross sections and resonance parameters at 0 to 440 eV, (E), 22:24863(T) (BNL-tr-197)
neutron fission at 0 to 0.7 MeV, angular anisotropy of fission fragments of, (E), 24:52576
neutron fission at 0 to 25 keV, Doppler effect on, (E/T), 21:10014
neutron fission at 0 to 6 MeV, energy dependence of mean prompt neutron production from, (E), 25:15117
neutron fission at 0 to 660 eV, resonance parameters for, (E/T), 25:15089
neutron fission at 0 to 70 keV, mean prompt neutron production from, (E), 25:15113
neutron fission at 0.0001 to 20 MeV, evaluation of cross sections for, (E/T), 25:15127
neutron fission at 0.001 to 1.0 eV, effects of plutonium-240 compound nucleus state on fragment mass and kinetic energy distributions from, (E), 25:50730
neutron fission at 0.002 to 10 kV, cross sections and self-shielding factors for, (E), 21:21527
neutron fission at 0.005 to 0.1 eV, cross sections for, (E), 25:15067
neutron fission at 0.01 eV to 10 keV, measurements of average τ for, (E), 22:48423 (RPI-328-133, pp 1-34)
neutron fission at 0.01 to 1 MeV, mean number of prompt neutrons and cross section for, (E), 25:15116
neutron fission at 0.01 to 1.0 eV, cross section measurement using correlation technique, 24:39207 (IN-1317, pp 233-381)
neutron fission at 0.010 to 30 keV, cross sections for, (E) , 25:15089
neutron fission at 0.02 eV to 30 keV, cross section for, (E), 24:35868
neutron fission at 0.02 to 10 eV, yields of high-kinetic-energy fragments from, (E), 21:31807
neutron fission at 0.025 to 1 MeV, total cross section for, (E), 25:15068
neutron fission at 0.03 to 1.5 MeV, cross sections for, (E), 23:28304 (WASH-1124)
neutron fission at 0.05 to 30 keV, correlation analysis of cross section for, (E/T), 23:11012
neutron fission at 0.05 to 7.20 MeV, angular anisotropy and nucleon-pairing effects in, (E), 25:56736 (FEI-233)
neutron fission at 0.08 to 1.5 MeV, angular distributions from, (E), 21:10066
neutron fission at 0.1 to 1.5 MeV, angular distribution of fragments from, (E), 25:15051
neutron fission at 0.1 to 1.8 MeV, energy dependence of delayed neutron yield from, (E), 25:5770
neutron fission at 0.1 to 3.0 MeV, power-series fits to fragment angular distributions from, (T), 25:43888 (LA-4648)
neutron fission at 0.1 to 30 keV, ratio of cross sections for radiative capture and, (E), 25:56734(T) (BNL-tr-446)
neutron fission at 0.1 to 8.0 keV, analysis of intermediate structure in the cross section and resonance parameters for, (T), 25:50716 (ANL-7814)
neutron fission at 0.15 to 1.2 MeV in monoenergetic beams, fission-fragment angular distributions for, (E), 23:5928
neutron fission at 0.15 to 1.5 MeV, fission-fragment angular distributions in, (E), 22:53209
neutron fission at 0.24 to 24 keV, cross section ratios to uranium-235, (E), 24:24559

neutron fission at 0.275 to 2.035 keV, statistical calculation of resonance structure in cross section for, (T), 24:33157
neutron fission at 0.275 to 2.035 keV, statistical construction of resonance structure for calculating cross sections and α valves for, (T), 25:46046
neutron fission at 0.3 to 1.4 MeV, cross section relative to uranium-235 and average number of prompt neutrons for, (E), 25:20373(T) (LIB/Trans-300)
neutron fission at 0.3 to 1.4 MeV, mean prompt neutron production and relative cross sections for, (E), 25:15114
neutron fission at 1.5 to 15 MeV, energy dependence of prompt neutron yield in, (E), 23:42925
neutron fission at 1.5 to 15 MeV, prompt neutron emission in, (E), 22:37340(R) (EANDC(E)-89(U))
neutron fission at 10 eV to 20 keV, average cross sections and resonance integrals for, 23:30995 (AERE-M-2157)
neutron fission at 10 eV to 20 keV, resonance integrals from SCISRS data tapes for, 23:49381 (AERE-M-2157(Rev.))
neutron fission at 130 to 1400 keV, cross section ratio to uranium-235 fission, (E), 24:47637 (ANL-7610, pp 1-59)
neutron fission at 130 to 1400 keV, cross section ratio to uranium-238 capture, (E), 24:47637 (ANL-7610, pp 1-59)
neutron fission at 14.1 MeV, cross sections for, (E), 25:50790
neutron fission at 14.3 to 200 eV, fission-neutron multiplicities for, (E), 25:36734 (ORNL-TM-3331)
neutron fission at 150 to 1400 keV, cross-section ratio to uranium-235 fission, (E), 24:6914
neutron fission at 17 keV to 1 MeV, absolute cross section for, (E), 25:53733 (CONF-701002-, pp 257-71)
neutron fission at 18 to 21 MeV, variations of ratios of fragment yields preceding the delayed neutrons in, (E), 25:34134
neutron fission at 2 keV, α and n values for, (E), 24:40607 (IN-1317, pp 1-63)
neutron fission at 2 MeV, neutron spectra for, (E), 22:11948(R) (NP-17216)
neutron fission at 2 to 20 MeV, cross sections for, (E), 25:39055
neutron fission at 2.5 and 14.1 MeV, neutron yields from, (E), 21:7765 (AERE-NP/R-1912)
neutron fission at 20 to 100 eV, resonance spin correlation with neutron multiplicity in, (E), 23:13265 (RPI-328-142, pp 1-67)
neutron fission at 20 to 100 eV, resonance spin correlation with neutron multiplicity in, (E), 23:13290
neutron fission at 3.1 and 14.9 MeV, delayed neutron yields for, (E), 23:31026
neutron fission at 300 eV to 25 keV, cross section evaluation for ENDF/B, 24:40604 (GEAP-13591)
neutron fission at 35 and 400 keV, prompt-neutron yield relative to uranium-235, (E), 25:39052
neutron fission at 4 to 14.8 MeV, prompt anti τ for, (E), 22:9847 (FOA-4-4318-22)
neutron fission at 4 to 14.8 MeV, prompt neutron emission in, (E), 22:14029
neutron fission at 40 keV to 1.2 keV, average number of prompt neutrons in, (E), 24:49850 (AWRE-O-42/70)
neutron fission at 40 to 100 eV, Adler—Adler calculation of multilevel parameters for, (T), 24:35867
neutron fission at 40 to 100 eV, calculation of multilevel parameters using Adler—Adler method, (T), 24:47637 (ANL-7610, pp 1-59)
neutron fission at 40 to 100 eV, resonance parameters for, (E/T), 24:40550 (WASH-1136)
neutron fission at 40 to 150 eV, multilevel analysis of cross section for, (T), 23:28304 (WASH-1124)
neutron fission at 5 to 1000 keV, relative cross section for, (E), 23:49332(R) (EANDC(E)-115(U))
neutron fission at 5 to 8 MeV, delayed neutron yields from, (E), 24:30772
neutron fission at 50 keV to 7.2 MeV, analysis for nucleon pairing effects in, (E), 25:53796
neutron fission at 89 to 202 eV, R-matrix single-level parameters for, (T), 24:47637 (ANL-7610, pp 1-59)
neutron fission at epicadmium energies, rate for, (E), 24:33153
neutron fission at low energies, precise cross section for, 25:53731 (CONF-701002-, pp 221-45)
neutron fission at resonance energies, intermediate structure in cross section for, (E/T), 24:30781
neutron fission at resonance energies, neutron yield from, (E), 24:47646
neutron fission at thermal energies, calculation of fragment energy distributions using renormalized Fermi gas model, (T), 24:24587
neutron fission at thermal energies, cross sections for, (E), 25:15070
neutron fission at thermal energies, long-range alpha particles and helium isotopes from, (E), 21:44683
neutron fission at thermal to 15 MeV, number of neutrons per fission from, (E/T), 25:39055
neutron fission at thermal to 2 MeV energies, energy dependence of prompt neutron yield from, (E), 25:59810
neutron fission at thermal to 3.1 MeV energies, delayed neutron yield from, (E), 25:5769
neutron fission by, fragment yields from thermal and fast, (T), 24:49852 (CEA-N-1309)
neutron fission cross section and resonance parameters at 0.004 to 6 keV, (E), 22:18296
neutron fission cross section at 0.01 ev to 30 keV, (E), 23:37234
neutron fission cross section at 0.016 to 35 keV, time-of-flight measurement of, (E), 23:8996
neutron fission cross section at 0.275 to 2.035 keV, statistical calculation using artificial resonance structure, (T), 24:15908
neutron fission cross section at 1 to 100 keV, evaluation of, 23:5864 (AERE-M-2065(AMEND.))
neutron fission cross section at 1 to 14 MeV, (E), 21:42636
neutron fission cross section at 14 to 90 eV, resonance parameters from multilevel analysis of, (E), 22:14048
neutron fission cross section at 2 keV, (E), 23:1882 (WASH-1093)
neutron fission cross section at 2 keV, measurements using fission chambers, (E), 22:32588
neutron fission cross section at 400 to 406 eV, (E), 22:37340(R) (EANDC(E)-89(U))
neutron fission cross section at 5 to 150 keV, (E), 21:35437(R) (EANDC(E)-76(U))
neutron fission cross section at 50 eV to 5.7 keV, correlation analysis of, (T), 24:30785
neutron fission cross section below 0.01 eV, R-matrix calculation of, (T), 24:18414
neutron fission cross section for, determination using calculated spectrum of NRU reactor, 24:49849 (AECL-3519)
neutron fission cross section for, evaluation of ENDF/B data for microscopic, (E/T), 25:44094(R) (AI-AEC-12991)
neutron fission cross section for, evaluation of ENDF/B data for, (E/T), 25:54060(R) (AI-AEC-13005)
neutron fission cross section measurements, detector system for, 24:29530
neutron fission cross section near 83 eV, multilevel analysis of, (T), 22:30012
neutron fission cross section of, average level spacing of intermediate subthreshold structure in, (T), 24:43474
neutron fission cross section of, error analysis for, 22:32970(R) (GEAP-5584)
neutron fission cross section of, thermal, (E), 23:37249
neutron fission cross section relative to uranium-235, (E/T), 21:40420 (AEEW-R-526)
neutron fission cross sections, 21:35381 (ANL-7320, pp 16-21)
neutron fission cross sections at 0.001 to 10 MeV, 21:2732
neutron fission cross sections at 0.016 to 0.55 eV, (E), 21:4320
neutron fission cross sections at 0.02 to 30 keV, (E), 25:56746 (ORNL-4707)
neutron fission cross sections at 0.3 to 2.5 MeV, relative, (E), 22:32621
neutron fission cross sections at 0.7 to 4 MeV, (E), 21:42658
neutron fission cross sections at 1 keV to 10 MeV, (E), 22:24873
neutron fission cross sections at 1 keV to 15 MeV, evaluated, 23:40030 (AHSB(S)R-169)
neutron fission cross sections at 20 eV to 1 MeV, (E), 21:10004 (LA-3586)
neutron fission cross sections at 5 keV to 1 MeV, (E), 24:43321
neutron fission cross sections at 5 to 150 keV, (E), 21:17350 (KFK-450)
neutron fission cross sections for, 24:1841
neutron fission cross sections for, review of data on, 24:15868 (KFK-966)
neutron fission cross sections from 0.1 to 10 keV, 22:24926(R) (APDA-214)
neutron fission cross sections, (E), 21:1077 (LA-DC-7813)
neutron fission from thermal energies to 14 MeV, calculations of total energy released during, (T), 25:43885 (ANL-7748)
neutron fission in aqueous solution, experimental and theoretical study on, (E/T), 23:46981 (CEA-R-3650)
neutron fission in fission spectrum, fission-product decay chains and yields from, 21:44671 (UCRL-50243(Vol.1))
neutron fission in fission spectrum, fission-product decay chains and yields from, 21:44672 (UCRL-50243(Vol.2))
neutron fission in fission spectrum, fission-product decay chains and yields from, (T), 21:46727 (UCRL-50243(Vol.3))
neutron fission in light and heavy water, short-lived delayed neutron and photoneutron groups from, (E), 25:25728 (TID-25643)
neutron fission in light and heavy water, short-lived delayed neutron and photoneutron groups from, (E), 24:10997
neutron fission in resonance region, ternary, (E), 21:15548 (CONF-660221-, pp 33-7)
neutron fission in thermal reactors, absorption cross sections and yields of fission products for, (E/T), 22:18289
neutron fission of, absolute cross section for thermal, (E), 25:59777 (IFA-NR-33)
neutron fission of, analysis of intermediate structure in cross section for, (T), 24:33159
neutron fission of, analysis of mass balance in thermal, 22:37400 (AECL-3109)
neutron fission of, analysis of serial correlation coefficients using distribution-free statistics, (T), 25:46134
neutron fission of, angular anisotropy of, (E/T), 22:14095
neutron fission of, angular momentum distribution of A = 108 fragments from thermal, (T), 24:3956
neutron fission of, average neutron production by resonance, (E), 25:20364(T) (BNL-tr-401)
neutron fission of, calculated independent fragment yields from thermal, (T), 23:32922 (AERE-R-6056)
neutron fission of, calculation of independent yields in thermal, 21:33955 (AERE-R-5488)
neutron fission of, central reaction ratio of uranium-235 fission to, (E/T), 25:44094(R) (AI-AEC-12991)
neutron fission of, characteristics of fragments from thermal, (T), 24:33158
neutron fission of, charge distribution in thermal, (T), 25:28508
neutron fission of, compilation of fragment yields and charge distributions from, 23:34784 (APED-5398-A(Rev.))
neutron fission of, cross section calculation in the unresolved resonance region, (T), 24:22205
neutron fission of, cross section for fast, (E), 25:36756
neutron fission of, cross section relative to uranium-235 for fast, (E), 25:17920
neutron fission of, cross sections for, (E), 24:38210 (JINR-P3-4992)
neutron fission of, cumulative chain yield to iodine-135 relative to fission of plutonium-241, (E), 25:34087
neutron fission of, cumulative yields in mass-135 chain for thermal, 24:16545(R) (AECL-3477)
neutron fission of, delayed γ energy spectra from, (E), 22:37337 (AD-801007)
neutron fission of, delayed γ spectra and isotope yields from fast, (E), 24:6886 (LA-4257)
neutron fission of, delayed γ spectra for fast, (E), 23:31015
neutron fission of, delayed γ spectra from thermal, (E), 24:15917
neutron fission of, delayed neutron fractions in thermal, (E), 25:31334
neutron fission of, delayed neutron yields from thermal, 24:11549 (IA-1190, pp 93-122)
neutron fission of, delayed-neutron half-life in thermal, (E), 23:37231
neutron fission of, effective energy release in thermal, (E), 24:11012
neutron fission of, effects of nucleon pairing correlations on angular anisotropy of, (T), 22:14080(T) (ANL-Trans-550)
neutron fission of, emission of hydrogen and helium isotopes in thermal, (E), 24:28771 (INR-1142)
neutron fission of, emission of light nuclei in thermal, (E), 23:23732
neutron fission of, emission of long-range α particles and light nuclei in thermal, (E), 22:37340(R) (EANDC(E)-89(U))
neutron fission of, empirical formula for charge distribution from thermal, (E/T), 24:6944
neutron fission of, energies and yield for Z greater than or equal to 2 particles in ternary thermal, (E), 23:19293
neutron fission of, energy dependence of angular anisotropy in, (T), 21:35499 (FEI-67)
neutron fission of, energy distribution of long-range α particles in thermal, (E), 22:32634
neutron fission of, energy spectra of fragments from ternary thermal, (E), 24:30777
neutron fission of, epicadmium energy integral rates for, (E/T), 25:17915
neutron fission of, evaluation of parameters for thermal, 25:41247
neutron fission of, fission product decay heat release rates for fast, 23:365 (ORNL-4272, pp 225-37)
neutron fission of, fission product yields and decay energy release from fast, (E/T), 23:4447 (LA-3954)
neutron fission of, fission product yields from fast, (T), 25:20819 (JAERI-Memo-4165)
neutron fission of, fission yield from fast, (E), 25:28354 (NP-18723)
neutron fission of, fission yield from thermal, (E), 25:28354 (NP-18723)
neutron fission of, fission-fragment charge distribution and kinetic energy from thermal, (T), 21:1093
neutron fission of, fission-fragment energy and mass distributions from ternary thermal, (E), 21:17369
neutron fission of, fission-fragment mass distributions from episamarium and thermal, (E), 23:1882 (WASH-1093)
neutron fission of, fission-fragment ranges in aluminum from thermal neutron, 21:1112
neutron fission of, fission-fragment yield dependence neutron energy, (E), 21:7769 (IN-1033)
neutron fission of, fission-neutron spectra from thermal, (E), 22:16046
neutron fission of, fission-product activities for, (T), 22:20569 (HNS-1229-77)
neutron fission of, fission-product charge distributions and yields in, (E), 22:46761 (APED-5398)
neutron fission of, fission-product ranges and energies in thermal, (E), 23:7283
neutron fission of, fission-product yields from thermal, (E), 22:3690 (GEAP-5356)
neutron fission of, fragment charge distribution from thermal, (T), 23:28339
neutron fission of, fragment deformation and kinetic energies from, (T), 21:13905
neutron fission of, fragment energies and yields from, (E), 22:5817(R) (NYO-GEN-72-28)
neutron fission of, fragment kinetic energies from thermal, (E), 21:30007
neutron fission of, fragment yields from, (E/T), 25:23017 (ANL-7749)
neutron fission of, gas release curves from, (T), 25:14989 (UCRL-50656(Suppl.))
neutron fission of, γ-ray yields from thermal, (E), 24:40550 (WASH-1136)
neutron fission of, independent yield of xenon-135 relative to cumulative chain yield of iodine-135 from thermal, (E), 25:34087
neutron fission of, independent yields of bromine-80 and -82 and iodine-128 and -130 from, (E), 24:40629
neutron fission of, independent yields of iodine-133, -134, and -135 in thermal, (E), 24:47652
neutron fission of, interference effects in average cross section for, (T), 25:12608
neutron fission of, intermediate structure effects in, (E), 25:14997
neutron fission of, intermediate structure in cross sections for, (T), 23:37240
neutron fission of, iodine-131 yields in, 21:18301(R) (IN-1048)
neutron fission of, iodine-135 yield and fission-product absorption cross sections in, (E), 22:16045
neutron fission of, iodine-135 yield from reactivity transient measurements, (E), 21:46718 (IN-1096)

neutron fission of, K x-ray yields from fragments of slow, (E), 24:11013
neutron fission of, kinetic energy release in thermal, (E), 24:52552 (CONF-690916-(Vol.1), pp 182-90)
neutron fission of, krypton-85 branching ratios and yields in thermal, (E), 25:28383
neutron fission of, liquid-drop-model calculations of heavy-fragment masses in thermal, (T), 25:56787
neutron fission of, mass and charge distributions in thermal, (E), 24:30805
neutron fission of, mass and energy distributions of fragments from, (E), 23:49393(R) (NYO-72-227)
neutron fission of, mass and energy distributions of fragments from thermal, (T), 24:15889
neutron fission of, molybdenum-99 and barium-140 yields in, (E), 24:33151
neutron fission of, neutron emission in, 21:12023 (NP-16440)
neutron fission of, neutron energy dependence of yields from fast, (E), 25:41241
neutron fission of, neutron spectra from thermal, (E), 23:37214
neutron fission of, neutron yield from, (E), 25:48069 (BNL-50276)
neutron fission of, neutron yields and fragment energy spectra from, (T), 24:38211 (JINR-P3-5081)
neutron fission of, neutron yields from, (E), 21:7766 (AERE-RP/R-1655)
neutron fission of, nuclear data tabulation on products from thermal, 23:37196 (RT/FIMA-(68)4)
neutron fission of, τ values for prompt neutron emission in, (E), 22:18250
neutron fission of, palladium-111 isomeric yields in, (E), 23:37227
neutron fission of, probability for alpha emission during, (T), 21:23492
neutron fission of, product decay from fast, (E/T), 22:5827
neutron fission of, production of K x rays by slow, 22:27836
neutron fission of, prompt neutron emission in thermal, (E), 21:29954 (AAEC/E-172)
neutron fission of, prompt neutron emission probability from, (T), 25:18239
neutron fission of, prompt neutron yield from thermal, (T), 25:28355(R) (TID-25659)
neutron fission of, prompt neutron yield from, (E), 25:56743 (NP-18966)
neutron fission of, range of fragments from thermal, (E), 22:20659
neutron fission of, rate of disintegration of fission products from fast and thermal, (T), 25:7846 (CEA-N-1370)
neutron fission of, relative intensities and energy spectra of light nuclei emitted from thermal, (E), 23:46984 (INR-1010)
neutron fission of, resonance integral for, (E), 24:43332
neutron fission of, resonance spin correlation with average neutron number in, (E), 23:28304 (WASH-1124)
neutron fission of, review of data on τ factor for, 24:15868 (KFK-966)
neutron fission of, review of data on slow, 23:37192 (KURRI-TR-10, pp 3-19)
neutron fission of, scission point configuration and neutron emission correlations in thermal, (T), 23:19269
neutron fission of, shielding effects of uranium-238 resonances on, (E), 21:42659
neutron fission of, statistical analysis of intermediate structure in, (T), 24:30780
neutron fission of, statistical calculation of characteristics of prompt neutron emission in thermal, (T), 24:6891
neutron fission of, survey of yields from fast and thermal, 22:20559 (AERE-R-5086)
neutron fission of, tabulation of prompt and delayed product yields from thermal and fast, (T), 25:17855 (ANL-7678)
neutron fission of, ternary thermal, (E), 22:9855(R) (ORO-2843-12)
neutron fission of, time dependence of fission-product β activity from thermal, (E), 22:7714
neutron fission of, triple coincidence studies of ternary thermal, (E), 23:15432(R) (ORO-2843-13)
neutron fission of, tritium yields from, (T), 22:37312 (ANL-7450, pp 105-7)
neutron fission of, tritium yields in fast, (T), 22:53165 (ANL-7425, pp 190-2)
neutron fission of, yield of barium-138 and cerium-142 in thermal, 22:16316(R) (GEAP-5505)
neutron fission of, yields and recoil ranges of products from, (E), 24:30803
neutron fission of, yields for epithermal, (E), 24:20389
neutron fission of, yields for fast and thermal, (E), 25:5765
neutron fission of, yields from thermal, 25:54587(R) (AECL-3909)
neutron fission of, yields of fission products in thermal, (E), 22:44680(R) (IN-1189)
neutron fission of, yields of rare earth isotopes from thermal, 25:15690
neutron fission of, yields of rare earth isotopes from thermal, 25:15689
neutron fission parameters for, evaluated, 21:19151 (NAA-SR-Memo-12315)
neutron fission parameters for, survey of, 22:22612
neutron fission rate in ECEL core 20, effects of axial position on, (E), 25:54060(R) (AI-AEC-13005)
neutron fission rate in fast reactor spectra, effects of core position on, (E), 24:46011(R) (AI-AEC-12969)
neutron fission rate in plutonium oxide (PuO_2)—uranium oxide (UO_2) two zone core, (E), 25:44096 (ANL-7710, pp 53-262)
neutron fission rate measurements in SNEAK, 25:48320
neutron fission rate measurements in ZPR-9 Assemblies 7 and 9, 21:44930 (ANL-7208)
neutron fission rate ratio to uranium-238 capture rate in fast reactors, absolute measurements of, (E/T), 24:16168
neutron fission rates in water moderated plutonium recycle fuel lattices, (E/T), 24:43856
neutron fission rates in ZPR-3, 22:14251(R) (BNWL-534)
neutron fission ratio measurements for, use of lead slowing down spectrometer for low keV, 23:37757
neutron fission ratio measurements in plutonium-239 fueled beryllium oxide moderated assemblies, 21:35663 (AAEC/E-177)
neutron fission reaction rate in, Doppler effects on, (E/T), 25:44164
neutron fission up to 1 MeV, spacing of class II resonances in, (T), 25:50786
neutron fission up to 100 eV, neutron multiplicity measurements for, (E), 24:30790
neutron fission up to 5.5 MeV, effects of excitation energy on fragment kinetic energies and yields from, (E), 25:36754
neutron fission width for, energy and spin dependence of, (T), 22:20655
neutron fission width of, effect of spin-dependence on self-shielding and Doppler effects, 24:49876
neutron fission-to-capture cross section ratio at 300 eV to 25 keV, evaluation for ENDF/B, 24:40604 (GEAP-13591)
neutron group constants for, calculation of fast, 24:52361 (JAERI-1195(Pt.1))
neutron inelastic scattering at 1 MeV, γ spectra from, (E), 23:5813(R) (TID-24763)
neutron inelastic scattering at 1.0 to 14.8 MeV, gamma emission in, (E), 21:4277 (ORO-2791-19, pp 32-74)
neutron inelastic scattering at 4 to 7.7 MeV, γ production cross section for, (E), 24:35823
neutron inelastic scattering at 4.0, 6.0, and 7.5 MeV, γ production cross section for, (E), 22:18287
neutron nonelastic cross sections at 13.4, 15.4, and 18.4 MeV, (E), 21:13849
neutron production values for, relative to uranium-235, 21:18301(R) (IN-1048)
neutron reactions (n,f) with, yields of zirconium-95, ruthenium-103, and iodine-131 relative to barium-140 from, 25:39470(R) (ANL-7750)
neutron reactions (n,2n) with, upper limits for cross sections for production of spontaneously fissioning isomers in, (E), 25:20369 (JINR-P3-5528)
neutron reactions (n,α) with, survey on thermal, (E), 22:48521 (JAERI-1158, pp 123-4)
neutron reactions (n,f) and (n,γ) at energies between Cd cutoff and 10 keV, cross sections for, (E), 21:5558
neutron reactions (n,f) at 0.04 to 11 eV, neutron production in, (E), 21:17341 (AERE-M-1709)
neutron reactions (n,f) at 10 eV to 20 keV, average cross sections from SCISRS data tapes for, 23:49381 (AERE-M-2157(Rev.))
neutron reactions (n,f) with, abundances of long-lived delayed neutron groups in fission-spectrum, (E), 23:34768 (AERE-M-2199)
neutron reactions (n,f) with, delayed gamma emission from, (E), 21:25518 (WASH-1071)
neutron reactions (n,f) with, design of gaseous scintillation detector operating at 77°K for measuring cross section of, 23:47765
neutron reactions (n,γ) and (n,f) with, cross-section ratios for thermal, (E), 21:4321
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron reactions (n,γf) with, detection of slow, (E), 22:39644
neutron reactions at 0.1 eV to 10 keV, capture and fission cross sections for, (E), 23:37236
neutron reactions at 0.1 to 10.0 keV, capture-to-fission cross-section ratios from, (E), 25:34080 (NP-18769)
neutron reactions at 0.1 to 30 keV, strength functions for, 25:53798
neutron reactions at 10 to 600 keV, instrumentation for measuring capture-to-fission cross sections for, 22:6601
neutron reactions at 100 eV to 100 keV, flux-perturbation measurement of capture-to-fission cross-section ratios for, (E), 25:48074 (JAERI-13491)
neutron reactions at 2 keV, partial cross sections and α value for, (E), 24:40607 (IN-1317, pp 1-63)
neutron reactions at 4 to 244 eV, uranium-238—plutonium-239 resonance interaction effect on, (T), 24:3933
neutron reactions at 4 to 7.5 MeV, γ production cross sections for, (E), 23:28304 (WASH-1124)
neutron reactions from thermal energies to 15 MeV, cross sections for, (E), 25:41225 (EURFNR-912)
neutron reactions with, accumulation of transplutonium isotopes from, 25:15691
neutron reactions with, group-averaged cross sections and resonance parameters for, (E/T), 25:17862 (JAERI-1199)
neutron reactions with, γ spectra from thermal, (E), 25:48069 (BNL-50276)
neutron reactions with, ratios of fission to absorbed neutrons from thermal, (E), 25:34093
neutron reactions with, re-evaluation for ENDF/B-II of cross sections and resonance parameters for thermal, (E), 25:48070 (BNWL-1586)
neutron reactions with, separated γ spectra from thermal, (E), 25:3649 (KFK-1214)
neutron reactions with, statistical analysis of resonances in, (T), 25:50787
neutron reactions with, yields of spontaneously fissioning isomers from, (E), 25:15031
neutron resonance cross sections for, calculations using channel fission theory, (T), 22:1655 (NAA-SR-12515)
neutron resonance Doppler broadening, (T), 21:42638
neutron resonance fission integral, (E), 21:17370
neutron resonance integral for, calculation using two-level resonance formula, (T), 23:49390(T) (EURFNR-638)
neutron resonance integrals at 100 to 300 eV, comparison of single-level and multilevel, (T), 23:49315 (ANL-7410, pp 1-46)
neutron resonance integrals below 150 eV, effects of mutual shielding on, (E), 23:28318
neutron resonance integrals for, calculations using two-level formalism for effective, (T), 23:5751 (RT/FIMA-(68)2)
neutron resonance interaction effects between uranium-238 and, at 4 to 244 eV, (T), 23:19244 (AE-344)
neutron resonance parameter correlation and interpretation of eta/τ below 20 eV, (E/T), 22:5825
neutron resonance parameters, 21:4190
neutron resonance parameters at 0 to 300 eV, (T), 22:53168 (JAERI-1162)
neutron resonance parameters at 0.3 to 20 keV, 23:37237
neutron resonance parameters for, 22:33086 (ANL-7310, pp 431-511)
neutron resonance parameters for, (E), 24:38210 (JINR-P3-4992)
neutron resonance parameters for, calculation of 0.05 to 200 keV, 23:21552
neutron resonance parameters for, compilation of, 21:23441 (KFK-120)
neutron resonance parameters for, correlations of, (T), 22:14066
neutron resonance parameters for, derivation of, (T), 24:52577
neutron resonance parameters for, review, (E/T), 22:3738
neutron resonance parameters for, updated library of, 22:37277 (AI-AEC-Memo-12645)
neutron resonance parameters of, library of TRIX-1 code, 21:1078 (NAA-SR-Memo-12102)
neutron resonance scattering at 2 to 450 eV, cross sections and resonance parameters for, (E), 25:23035
neutron resonance scattering by, interference effects in average cross section for, (T), 25:12608
neutron resonance self-shielding factors at high temperature, calculations using ladder method, (T), 22:35348
neutron resonance spins for, methods for determining, (E), 22:18294
neutron resonances at 22 to 100 eV, spin assignments for, (E), 22:48423 (RPI-328-133, pp 1-34)
neutron resonances at 300 eV to 25 keV, strength function and fission width evaluation for ENDF/B, 24:40604 (GEAP-13591)
neutron resonances below 100 eV, spin assignment for, (E), 24:30790
neutron resonances below 1400 eV, spin assignments and widths for, (E), 23:37138(R) (RPI-328-160)
neutron scattering at 0.2 to 5.5 MeV, angular distributions in, (E/T), 25:15134
neutron scattering at 0.2, 0.3, and 0.4 MeV, angular distributions for, (E), 22:37340(R) (EANDC(E)-89(U))
neutron scattering at 14 MeV, cross section for inelastic, (E), 24:49853 (CEA-R-3936)
neutron scattering at 14.7 to 300 eV, resonance parameters and spins from, (E), 21:31785
neutron scattering at low energy, (E), 22:48423 (RPI-328-133, pp 1-34)
neutron scattering below 1400 eV, resonance parameters and spin assignments for, (E), 24:47660
neutron scattering cross section at 1 to 100 eV, (E), 21:40675(R) (IN-1083)
neutron scattering cross sections and resonance spin assignments up to 500 eV, (E), 23:28304 (WASH-1124)
neutron scattering cross sections at 1 to 100 eV, (E), 21:25518 (WASH-1071)
neutron scattering cross sections at 1 to 100 eV, (E), 21:17270(R) (RPI-328-71)
neutron scattering from, fast, 21:30091(R) (ANL-7210)
neutron scattering resonances at 41 to 90 eV, spin assignments and widths for, (E), 23:13265 (RPI-328-142, pp 1-67)
neutron spin states for, assignment of, 23:15729 (ANS-RPD-1, Paper 3)
neutron total and fission cross sections at 5.7 to 160 eV, simultaneous analysis of, (E/T), 25:15087
neutron total cross section and resonance parameters at 4 to 700 eV, (E), 22:18296
neutron total cross section and resonance parameters at 100 eV to 1 MeV, (E), 22:18283
neutron total cross section and resonance parameters for, fast, (E), 25:36756
neutron total cross section at 0.1 to 6 MeV, (E), 25:15103
neutron total cross section at 300 eV to 25 keV, evaluation for ENDF/B, 24:40604 (GEAP-13591)
neutron total cross section at 5 to 200 eV, multilevel analysis of, (E/T), 23:7281(R) (ORNL-4280)
neutron total cross section at 50 eV to 5.7 keV, correlation analysis of, (T), 24:30785
neutron total cross section for, calculation of energy dependence of Doppler broadened, 23:15672 (ANS-RPD-1, Paper 5)
neutron total cross sections at 0.01 to 1 keV, (E), 21:17341 (AERE-M-1709)
neutron total cross sections, (E), 24:38210 (JINR-P3-4992)
neutron yields from electron accelerator targets of, (E), 22:18557 (GA-8087)
neutron-to-gamma dose rate ratio measurements for subcritical and critical arrays of, for determining personnel neutron dose, 23:11866 (UCRL-71328)
nuclear charge distributions and electric quadrupole moments from x-ray spectra of mu-mesic atoms of, (E), 21:12056
nuclear magnetic moment, (E), 22:5864

nuclear magnetic resonance in stabilized delta-plutonium, search for, 25:14481
nuclear properties of, 25:8238(T) (LF-tr-41, pp 3-5)
occurrence in nature, 21:34335
oxygen-16 and oxygen-18 reactions with, effects of N = 152 subshell on nobelium-isotope production by, (E), 22:18210 (JINR-D7-3548, pp 65-70)
oxygen-16 reactions (O-16,4n) with, nobelium-251 production by, (E), 21:25507 (JINR-E7-3261)
oxygen-18 reactions (O-18,4n) and (O-18,5n) with, nobelium-253 and nobelium-252 production in, (E), 21:30017
oxygen-18 reactions (O-18,4n) at 90 MeV, cross section and mean GAMMA/sub n//GAMMA/sub f/ ratio for, (E), 22:46760(T) (ANL-Trans-636)
oxygen-18 reactions (O-18,4n) with, nobelium-253 production by, (E), 21:1074 (JINR-P-2839)
oxygen-18 reactions (O-18,5n) at 96 MeV, cross section and mean GAMMA/sub n//GAMMA/sub f/ ratio for, (E), 22:46760(T) (ANL-Trans-636)
oxygen-18 reactions (O-18,5n) with, production of nobelium-252 by, (E), 22:39646
particle size distribution in aerosols of, 21:32635 (BNWL-SA-1220)
performance as oxide fuel in 1000 MW(e) fast-thermal coupled-reactor systems, 21:25661
permissible annual intake of, in Sweden, 21:1539 (AE-234)
phagocytosis of inhaled, in rat lungs, 23:6375
phagocytosis of plutonium oxide-incorporated, in peritoneal cavity of rats, effects of particle size on, 23:24533
photofission at 27.5 MeV, track detector measurement of ternary, 24:29515
photofission at 5 to 10 MeV, prompt and delayed neutron yields from, (E), 25:5768
photofission at 5 to 8 MeV, fission-fragment angular distribution near threshold for, (E), 22:18275
photofission at 5.5 to 9 MeV, prompt and delayed neutron yields in, (E), 23:16062(R) (GA-9077)
photofission at 53 MeV, delay time for isomeric fission in, (E), 25:56801
photofission at 7.5 and 11 MeV, cross sections and yields for, (E), 23:23728
photofission at 7.5 to 11.0 MeV, excitation function for, (E), 25:46063
photofission at 7.5 to 11.5 MeV, cross section for, (E), 23:37238
photofission near threshold energy, cross section and angular anisotropy of, (E), 24:38244
photofission of, angular distribution and excitation function for, (T), 21:40503
photofission of, cross sections and angular anisotropy of, (E), 25:10024 (FEI-190)
photofission of, fission-product gamma spectra for, (E), 23:16062(R) (GA-9077)
photofission of, γ spectra of products from, (E), 24:15867 (GA-9614)
photofission of, particle-track detector study of ternary, (E), 25:1761
photofission of, prompt and delayed neutron yields in, (E/T), 23:10997 (GA-8812)
photofission of, sandwich dielectric track detector study of ternary, 25:46056
photofission using fission-fragment γ rays, cross section for, (E), 24:30798
photon inelastic scattering by, production of spontaneously fissioning isomers in, (E), 25:56738 (JINR-P15-5959)
photon reactions (γ,n) with, neutron yields in, (E), 23:10997 (GA-8812)
photon reactions with, neutron yields from, 24:46207
physics parameters of fuel assemblies of, analysis of Doppler effects in ZPR-III, 22:30303 (GEAP-5271)
physiological properties of, effects on dose to human lungs, intestine, and skin, 24:29700 (UCRL-50639)
power output of, isothermal calorimetric measurement of, 25:10779
preparation of activation detectors of, for capture-to-fission measurements in EBWR, 22:32961 (ANL-7310, pp 377-430)
preparation of aerosols of, for inhalation studies, 24:25364 (BNWL-1221, pp 1.1-47)
preparation of aluminum-clad foils of, method for, 25:58180 (CONF-711002-, pp 70-6)
production and properties of spontaneously fissioning isomeric, 23:46989 (RLO-1388-97)
production at NPR, 21:12252
production by proton irradiation of uranium at 50 MeV in Harwell Cyclotron, 22:48871 (AERE-R-5790)
production by uranium-238 neutron capture in rod-cluster fuel elements, method for calculating, 21:40442
production in breeder reactors, optimization of rate of, (T), 25:1960
production in fuel bundles, relation with krypton-83/krypton-84 and xenon-134/xenon-136 ratios in reactor waste gases, (E), 25:21321
production in heavy-water-moderated uranium and uranium-dioxide assemblies, (E), 21:19455 (AECL-2636)
production in uranium fuels, conversion ratio, 21:25712(R) (BAW-3647-3)
production of, 23:2333
production of aerosols of oxides of, for inhalation studies in dogs, 25:54982
production of isomeric, in uranium-236 (α,n) and uranium-238 (α,3n) reactions, thresholds and ratios for, (E), 24:35872
production of monodisperse aerosols of, centrifugation method for, 25:29421 (LF-43, pp 8-12)
production of spontaneously fissioning isomers in gamma inelastic scattering, (E), 25:56738 (JINR-P15-5959)
production of, review of various methods for, 22:23103
properties as fuel for space power reactor, 21:40656 (UCID-15191)
properties as reactor fuel, review of, 23:10198
properties as reactor fuel, technology of, 21:36844
proton fission at 1 to 9 GeV, cross section for, (E, 22:46804
proton fission at 1 to 9 MeV, cross section for, (E), 23:5866(T) (BNL-tr-235)
proton fission at 20 to 85 MeV, charge dispersion in, (E) , 24:28796
proton fission at 20 to 85 MeV, charge dispersion in, (E) , 24:30801
proton fission at 20 to 85 MeV, charge distribution of products from, (E), 25:17927
proton fission at 30 to 85 MeV, cesium-134 isomer ratios in, (E/T), 23:37225
proton fission at 8 to 13 MeV, mass and energy distributions and correlations of fragments from, (E), 23:39976(R) (ORNL-4395)
proton fission cross sections at 660 MeV, (E), 21:1091
proton fission mass—energy yields at 8 and 13 MeV, (E) , 24:1823 (ORNL-4437, pp 20-39)
proton reactions (p,2n) at 13 to 14 MeV, production of spontaneously fissioning isomeric americium-238 by, (E), 21:46767
radiation dose distribution from, in structural layers of contaminated skin of swine, 25:46829
radiation dose from, to bone and whole body of children following nuclear explosion, 22:40669 (UCRL-70894)
radiation dose from, to bone marrow of rabbits following injection of labeled plutonium nitrate, 22:10736
radiation dose to dogs following inhalation of plutonium oxide-incorporated, α and γ, 23:6339 (BNWL-714, pp 3.1-38)
radiation dose to man from, in lungs following inhalation of palladium-103-labeled aerosols, use of proportional counter for measurement of soft x, 22:43300 (AERE-PR/HPM-12)
radiation effects on transmutations in, analysis of neutron, 22:32893
radiation hazards during handling, 21:1753
radiation hazards of airborne, to personnel, 25:42488
ratio to strontium-90 in surface air samples from Northern Hemisphere during 1968, possible mechanisms for anomalous, 24:25481(R) (HASL-224)
reactions with constituents of blood in dogs, 22:36204
reactivity worth determination in ZPR-3, 22:32734 (ANL-7310, pp 137-248)
reactivity worth in FTR core, (E/T), 22:27460 (BNWL-634, pp 4.1-55)
reactivity worth of, analysis of, (E/T), 22:32969 (GA-8468)
reactivity worth of, calculation of central, (E/T), 21:1208 (LA-DC-7962)
reactivity worth of, temperature coefficient of, (E), 22:5744
relation of physico-chemical state of, to metabolism, 24:50870
removal from bones and liver of mice, optimal conditions for use of DTPA in, 23:45722 (ANL-7535, pp 65-7)
removal from bones of mice, effects of dose of DTPA on, 23:35711
removal from dogs following inhalation as plutonium fluoride particles, effectiveness of DTPA for, 24:34299 (BNWL-1050(Pt.1), pp 5.14-17)
removal from human skin, methods for, 23:18028 (JAERI-5017, pp 163-5)
removal from lacerated human finger, 22:33807 (AEEW-M-613(Rev.1))
removal from lungs of rats following inhalation as plutonium oxide particles, effectiveness of inhalation of negatively charged aerosols on, 24:34301 (BNWL-1050(Pt.1), pp 5.19-21)
removal from lungs of rats following inhalation as plutonium oxide particles, effectiveness of saline lavage for, 24:34300 (BNWL-1050(Pt.1), pp 5.18-19)
removal from man following ingestion or inhalation, use of DTPA for, 24:50863 (CEA-CONF-1549)
removal from organisms using chelating agents, 22:51564 (CEA-R-3519)
removal from organs and skin of personnel, methods for, 24:7941
removal from organs of rats, effectiveness of DTPA for, 25:46809
removal from personnel following accidental contamination, 24:50870
removal from platinum plates by immersion in concentrated hydrochloric acid, 22:14574
removal from rat lungs by serial saline washing, 23:31732
removal from rat tissues, effects of DTPA on, in plutonium nitrate-citrate complex, 21:26554(R) (BNWL-370)
removal from rats following inhalation as oxide particles, effectiveness of ammonium chlorides with Carbopol-941, chlorothiazide, fluoxymesterone, and promethazine for, 24:34298 (BNWL-1050(Pt.1), pp 5.11-14)
removal from rats, effects of age on, 24:50674(R) (BNWL-1306(Pt.1))
removal from skin and wounds, effects of DTPA on, 23:6434 (BNWL-714, pp 6.1-21)
removal of inhaled plutonium oxide particle-incorporated, from lungs of dogs and rats, effectiveness of pharmaceuticals for, 23:6434 (BNWL-714, pp 6.1-21)
removal of inhaled, effectiveness of pentacine for, 25:16113(T) (AEC-tr-7172)
removal of polymeric, from mice, effectiveness of DTPA and glucan for, 23:45721 (ANL-7535, pp 60-5)
removal of, from rat tissues, effects of cephalothin, vancomycin, or Pluronics F-68, alone or combined with DTPA on, 21:14557 (BNWL-280, pp 81-3)
retention and sorption by skin of rats, effects of DPTA on, 21:36568 (BNWL-SA-1253)
retention in bones and lungs of rats following inhalation in soluble form, effects of DTPA on, 25:46676(T) (ORNL-tr-2491)
retention in bones of rats, protective effects of tetracycline against, 25:46695
retention in Chinchillas following intravenous injection, 25:23995 (COO-119-242, pp 377-84)
retention in kidney, liver, and spleen of beagle dogs, 25:23992 (COO-119-242, pp 176-91)
retention in kidneys, liver, and spleen of beagle dogs, effects of dose rate on long-term, 22:28336
retention in kidneys, liver, and spleen of beagles following intravenous injection, effects of dose on, 25:29451
retention in respiratory tract of dogs, chemical and physical factors affecting, 21:34650(R) (BNWL-322)
retention in soil, plants, and small mammals, fallout, 25:4478
retention in tissues of mice, effects of DTPA and glucan on, 23:24548
retention of, in rats, effects of deferrioxamine and DTPA on, 21:14669
sampling in laboratory air, methods for, 24:32018 (NP-18204)
separation from actinide and rare earth isotopes by ion exchange chromatography using zirconium phosphate, 22:10335
separation from ashed biological materials by electrodeposition in presence of iron, effects of hydrofluoric acid on electro-, 23:13669 (BNWL-715(Pt.2), pp 1-149)
separation from dilute nitrate solutions, design of engineering-scale equipment for, 23:21857 (ORNL-4256)
separation from fission products by ion exchange and liquid scintillation counting, 22:42583 (AD-665357)
separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
separation from Purex Process wastes by anion exchange, 25:29191
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation of, comparison of methods for, 22:42583 (AD-665357)
shipping methods for, IAEA requirements for, 22:28041
shipping of, design of container and packaging for, 22:14744
shipping of, use of storage limits in criticality safety evaluation for, 25:48857 (CONF-710801-(Vol.2), pp 792-802)
shutdown after-cooling rate of rocket reactor fuels of, 22:18542 (HW-84412)
size of airborne particles containing, autoscintigraphy method for measuring, 25:18976
sorption by skin tissues of swine, 22:14925
sorption in gastrointestinal tract of rats, effects of age and particle size on, 21:34650(R) (BNWL-322)
sorption of, by manganese oxides in water works filter bed materials, 21:16006
thickness of metallic samples of, self-indication method for measurement of, 23:24399
thickness of, resonance self-indication technique for nondestructive measurement of, 23:24405 (LA-DC-9760)
toxicity in dogs, clinical and pathological aspects of, 22:25962(R) (COO-119-236)
toxicity in rats in comparison to plutonium-238, 21:45544
toxicity to man following contamination of environment by noncritical detonation of nuclear weapons, 24:29700 (UCRL-50639)
toxicity to mice, effects of glucose on treatment of, 23:2919(R) (ANL-7409)
toxicity to mice, factors affecting treatment of, 23:2919(R) (ANL-7409)
toxicity to rats in comparison to neptunium-237, 25:42253
transfer from transferrin to ferritin, in vitro study of, 23:11982 (COO-119-237, pp 153-7)
transport across placenta following administration to pregnant rats, effects of gestation time on, 24:23074 (CONF-690501-, pp 153-60)
transport in soil, 21:43323
transport of particles of plutonium oxide-incorporated, in rats, effects of DTPA treatment on, 24:16952
transport through gastrointestinal tract of swine, pathological effects of, 21:34650(R) (BNWL-322)
triton reactions (t,df) at 18 MeV, fragment angular distributions from, (E), 23:42943
triton reactions (t,p) at 18 MeV, Q-value for, (E), 24:11004
triton reactions (t,pf) with, fission probability and angular correlation coefficients for, (E), 25:12579
uptake and binding by ferritin in liver of dogs, 24:48445
uptake and binding by in vitro bone minerals, 25:24014
uptake and metabolism by animals and man, 22:8644
uptake and pathogenicity in melanocytes in dogs following eye injection, 25:24384
uptake and retention in lymph system of dogs following subcutaneous implantation, protective effects of DTPA against, 24:25383
uptake and retention of, by lungs of rats following inhalation of plutonium oxide particles, 23:31732
uptake by A. falcatus, 22:23138
uptake by barley and bean plants, 23:6404 (BNWL-714, pp 8.1-25)
uptake by bones in animals and man, induction of neoplasms and radiation injuries following, 25:42472
uptake by bones of rabbits, effects of, on content of DNA and RNA, 22:25971
uptake by fetuses and placenta of rats following injection, effect of chemical form on, 22:30948
uptake by inhalation in dogs, pathological effects of, 21:38815(R) (BNWL-293)
uptake by laboratory animals, effectiveness of various chelating agents for removal following, 25:37780 (EUR-4612, pp 223-48)
uptake by lobsters, 24:34224
uptake by lysosomes of liver and testes of rats, 24:14400
uptake by man following inhalation, 22:33715 (SZS-15/67)
uptake by organisms of marine food chain, effects of physico-chemical form on, 25:55149 (BNWL-SA-4048)

uptake by personnel following inhalation, estimation of internal radiation dose from, 25:37832 (EUR-4612, pp 259-71)
uptake by plants from soil, effects of DTPA on fallout, 25:4478
uptake by seaweeds, 21:22372
uptake by tissues in plant personnel, review of treatment of, 25:16004 (RT/PROT-(70)10)
uptake from soils by plants following large area contamination, 24:29738 (NP-18208)
uptake of plutonium nitrate-incorporated, by bone marrow of rabbits, 22:10736
uptake of plutonium nitrate-incorporated, by surfaces of rabbit bones following intravenous injection, 21:20190
uptake of, by persons accidentally exposed, 21:16357
uptake through finger wound, estimation of radiation dose to tissues following, 25:37781 (EUR-4612, pp 273-87)
use as alpha source for calibration and determination of basic parameters of silicon semiconductor spectrometers, 21:32391
use as α source, 22:14680
use as electrode for measuring interfacial potentials, 21:40830
use as electrode in measurements on interfacial electric potentials, 21:40831
use as fuel for a coupled fast-thermal power breeder reactor, evaluation of, 21:35613
use as fuel for heat-pipe-cooled space vehicle power reactor, conceptual design for, 23:7405 (ANL-7422)
use as heat source in nuclear drilling system, 21:8552(P)
use as neutron source in well logging equipment for ground water hydrology studies, 22:19066
use for microradiography of bone cross sections to determine surface/volume ratio, 22:31003
use in activation detectors for thermal neutron spectrum determination, 22:25141
use in calibration of transistorized proportional detector, 21:14451
use in combination with glass fibers in radiation sources, 22:42979(P)
use in fission chambers, 21:30700 (UCID-15055)
use in fission chambers containing fertile and fissionable materials for prolonged use in high thermal neutron fluxes, 21:39195
use in fission chambers for measuring neutron rethermalization in liquids, 21:19961
use in fission foil—plastic detectors, for neutron fluence measurements, 21:8574 (AD-643540)
use in nuclear fuel rods, 22:49817(R) (EURAEC-2036)
use of electrode of, for measuring solvation energy of aqueous uranyl chloride in butyl phosphate systems, 22:23010
use of, as reference spectrometric alpha source, 21:4588
x radiation from, design of scintillation detector system for monitoring, 22:21307 (AERE-HP/M-139)
x-ray spectra of μ-mesic, (E), 21:23534(R) (ANL-7246)
x-ray spectra of, use of lithium-drifted silicon detectors for measuring, 21:36345 (RFP-980)
yields from thermal neutron fission of reactor fuels, isotope dilution mass spectrometric studies on, 24:2101 (IN-1316, pp 76-84)
^{239}Pu—^{238}U, determination by delayed neutron kinetic response methods, 23:24102 (LA-DC-9759)
^{239}Pu—^{238}U, neutron reactions in statistical resonance region with, influence of resonance interactions on effective cross sections for, (T), 25:39000

PLUTONIUM ISOTOPES Pu-240

alpha decay of, α-γ coincidence spectra from, (E), 22:35336
alpha decay of, coincidence semiconductor detector system for measurement of x-ray-to-alpha ratio in, 25:8465 (BNWL-SA-1514)
alpha decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
alpha decay of, gamma energies and absolute branching intensities for, (E), 25:56753 (UCRL-51087)
alpha decay of, gamma spectra and half-life for, (E), 25:14981 (IN-1448)
alpha decay of, time spectrum of alpha—conversion-electron delay in, (E), 25:12542
alpha spectra of, energies of intense lines in, (E), 22:35357
alpha spectra, (E), 22:1646 (IS-1683)
burnup for graphite moderated, calculation of spatial, 24:11313 (AEEW-M-155)
carbon-12 reactions (C-12,4n) with, production of fermium-248 by, (E), 22:14016
content in A2 reactor fuel, effects on thermal and epithermal spectra of, (T), 23:11186 (UJV-2027)
content in fallout from Chinese and USSR nuclear explosions, 23:47646(T) (UCRL-Trans-10355)
content in fallout from Russian nuclear explosions, 22:42879
content in fallout over Japan from Chinese and Soviet nuclear explosions, 1961 to 1962, 21:6038
content in material moving in and out of fuel fabrication facility, performance of instruments for measuring, 25:21300
content in monthly precipitation in US cities, 1965 to 1967, 22:25530 (HASL-193, pp II.1-30)
content in plutonium-water systems, effect on minimum critical mass of, (E/T), 23:28603
content in rainwater at selected US sites, data tabulations on, 1957 to 1967, 22:14588(R) (HASL-184(App.))
content in stratospheric fallout, 22:8224
content in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
content in US precipitation, Jan. through June 1967, 23:26373
content of airborne particulates in U. S. during 1965, 22:25850
content of atmosphere in United States during Jan. to March 1967, 22:23515
content of dogs, measurement of, by whole-body scanning, 24:25477 (BNWL-1221, pp 7.1-25)
content of fallout samples collected during 1968 and 1969, 24:44456 (HASL-217, pp II.1-215)
content of human lungs, determination of, by low level proportional counters, 23:821 (NP-17579, pp IV.3-4)
content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
cost of reactor fuels of, effects on liquid sodium-cooled fast power reactor development, 22:50733 (GEAP-5635)
criticality calculations for water moderated high concentration assembly, 24:18697(R) (BNWL-1304)
criticality effects in plutonium—water systems, 23:6020(R) (BNWL-887)
criticality of sphere shaped metal, 24:7194
decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
decay scheme, 25:57998 (NIRS-Pu-8)
deposition at selected world land sites during 1965 to 1969, fallout, 23:48043 (HASL-214(App.))
deposition in Australia and United States during 1965 to 1968, 22:40661(R) (HASL-197)
deposition in Tokyo and on Japan Sea, 1966 to April 1969, 24:25142
determination by neutron activation and delayed neutron counting, 24:165
determination by neutron transmission measurements, 25:41750 (AE-416)
determination in 1-gal containers of waste, performance of isotopic source assay system for, 25:48879(R) (GULF-RT-10697)
determination in aluminum—plutonium alloy plates using gamma scintillation detectors and neutron coincidence counting, 24:44222 (BNL-50205, pp 16-25)
determination in ambient air, tentative method for α spectrometric, 25:2113
determination in fuel elements by neutron-transmission methods, 22:4035
determination in fuel reprocessing solutions, 25:8324(T) (ORNL-tr-2406)
determination in irradiated fuel, by spectroscopy, 21:14109(R) (EUR-3123.e)
determination in irradiated plutonium, 21:19353(R) (EURAEC-1774)
determination in irradiated uranium fuels by isotope dilution and α and γ spectrometry, 23:9343
determination in lunar rocks from Apollo 11 by mass spectrometry, 24:20706
determination in mixed oxide rods by measurement of prompt neutrons, 24:5609
determination in plutonium by alpha spectrometry, 23:47393
determination in plutonium by α counting, 24:50353 (CONF-690916-(Vol.2), pp 252-6)
determination in plutonium by mass spectrometry, 23:49724
determination in plutonium by optical emission spectroscopy, 23:7472
determination in plutonium dioxide—uranium dioxide scrap, using boron trifluoride detectors, 24:44222 (BNL-50205, pp 16-25)
determination in plutonium oxide-containing scrap, performance of Los Alamos Mobile Nondestructive Assay Laboratory for, 25:32179 (CONF-700541-, pp 369-80)
determination in plutonium sources by γ spectroscopy, 24:46190 (BNL-50237)
determination in plutonium using fission multiplicity detector, 25:4038
determination in plutonium, semiconductor detector alpha spectrometer for, 24:14287 (CEA-R-3925)
determination in scrap fissionable material by neutron counting, 25:20937
determination in spent fuel elements by γ and neutron counting, effects of matrix on, 25:20936
determination in stratospheric fallout by α spectroscopy, 22:8224
determination of abundance of, relative to americium-238 and americium-241 in soft tissues of Beagle dogs by electrodeposition and α spectrometry, 23:49726 (BNWL-1051(Pt.2), pp 10-13)
deuteron fission (d,f) at 7.6 to 14 MeV, fragment energy spectra from, (E), 22:16049
deuteron fission at 11 to 13 MeV, cross section for delayed, (E), 24:13349
deuteron reactions (d,2n) at 12.1 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:15576
deuteron reactions (d,p) and (d,t) with, Q-value for, (E), 23:21370
deuteron reactions (d,p) and (d,t) with, Q-values for, (E), 22:11945(R) (ANL-7384)
deuteron reactions (d,p) at 11.968 MeV, broad-range magnetic spectrometer for studying, 21:14420 (ANL-7029, pp 1-3)
deuteron reactions (d,pf) with, fission probability and angular correlation coefficients for, (E), 25:12579
distribution in clad uranium dioxide fuel rod at 27,700 to 42,500 MWd/t burnup, 24:21445(R) (GEAP-10121)
distribution in uranium oxide (UO$_2$) fuel elements, effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
effect of compound nucleus state on fragment mass and kinetic energy distributions from neutron fission of plutonium-239 at 0.001 to 1.0 eV, (E), 25:50730
effect on criticality of plutonium-fueled systems, (E/T), 23:28604
effects on reactivity perturbations in plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) single-cluster fuel assemblies in Hector Reactor, comparison of calculated and measured, 23:21508 (AEEW-R-499)
energy level scheme for, 24:48065 (ORNL-4581, pp 28-61)
energy levels at 1410.8 and 1438.5 keV, spin—parity assignments for, (E), 25:39011
energy levels from curium-244 alpha decay, lifetimes, quadrupole moments, and deformation parameters for, (E), 25:12542
energy levels from curium-244 decay, (E), 21:12068
energy levels from neptunium-240 decay, characteristics of two-phonon octupole vibrational, (E), 24:45789
energy levels from neutron resonances in plutonium-239, spin assignments for, (E), 23:37138(R) (RPI-328-160)
energy levels in vibrational bands from plutonium-239 (d,pf) reactions, (E), 23:7308
energy levels of, analysis of nonrandom distributions of neutron resonance, (T), 25:28421
energy levels of, deformation-dependence of energy of γ-vibrational, (T), 25:5779
energy levels of, microscopic calculation of vibrational, (T), 24:13365
energy-level spacing from plutonium-239 (n,f) reactions, class II, (E), 24:15883
energy-level transition probabilities for, calculations using rotation—vibration model for E0, (T), 23:13315
energy-level transitions from curium-244 alpha decay, probabilities for E2, (E), 25:12542
energy-level transitions from neutron fission of plutonium-239 at 0.05 to 7.20 MeV, nucleon-pairing effects on, (E), 25:56736 (FEI-233)
energy-level transitions in, internal conversion coefficients for, (E), 24:10975
energy-level transitions in, L-subshell ratios for E2, (E), 21:7809
energy-level transitions in, total internal conversion coefficients for E2, (E), 22:50611
fallout at selected U.S. stations, 1965 to 1966, 21:41019(R) (HASL-182)
fission of isomeric, half-life for, 24:30788
fission of isomeric, half-life for spontaneous, (E), 23:52109(R) (RLO-1388-96)
fission of isomeric, half-life for spontaneous, (E), 24:8891 (RLO-1388-107)
fission of isomeric, half-life for spontaneous, (E), 24:43118(R) (ANL-7620)
fission of isomers of, spontaneous, (E), 25:15031
fission of, absolute yield of delayed neutrons from, 24:18901(R) (LA-4320)
fission of, coincidence counting of neutrons from, 24:18901(R) (LA-4320)
fission of, energy-dependent neutron yield for, 25:10025 (INDC(NDS)-19/N)
fission of, half-life for delayed, 23:42938
fission of, half-life for spontaneous, (E), 22:3727
fission of, ion—ion interaction in theory for absolute lifetimes for symmetric and antisymmetric spontaneous, (T), 25:48126
fission of, mass and energy distributions of fragments from spontaneous, (E), 23:49393(R) (NYO-72-227)
fission of, neutron emission in spontaneous, 21:12023 (NP-16440)
fission of, neutron yields from spontaneous, (E), 21:7766 (AERE-RP/R-1655)
fission of, neutron yields from spontaneous, (E), 21:7765 (AERE-NP/R-1912)
fission of, prompt neutron emission in spontaneous, (E), 22:18290
fission of, prompt neutron emission in spontaneous, (E), 22:18248
fission of, prompt neutron yield for spontaneous, (E), 25:56743 (NP-18966)
fission of, saddle point calculation of, 21:7694 (IA-1082, pp 27-74)
fission of, ternary, (E), 21:10006(R) (ORO-2843-11)
fluorescence, Auger, and Coster—Kronig yields from L$_1$ subshell of, 22:31646
gamma dose rates from, in plutonium dioxide, 22:31060 (MLM-1460)
gamma spectra, (E), 25:17861 (IN-1448(Rev.))
half life of isomeric, (E), 24:35872
half-life and specific power of, calorimetric determination of, 22:30788
half-life of isomeric, (E), 24:13349
inhalation of, relative hazards from, 24:31973
isomeric transition in, half-life for, (E), 22:27184
isotopic shift measurements for, 22:13250
monitoring in Australia and North and South America during 1965 to 1969, fallout, 24:21100(R) (HASL-217(App.))
neutron absorption at 0.7 to 100 keV, activity from, (E), 24:1721(R) (RPI-328-162)
neutron absorption cross sections of, formulation using TEMPEST code, 22:21776(R) (EURAEC-1937)
neutron absorption for 1.05 eV resonance of, 24:7216
neutron absorption resonance integrals for, effects of Doppler broadening on, (T), 21:31787
neutron capture at 1 to 30 keV, cross section for, (E), 25:48069 (BNL-50276)
neutron capture at 38 to 820 eV, resonance radiative widths for, (E), 23:5924
neutron capture at 4 to 60 keV, average cross section for, (E), 25:14982 (NCSAC-31)
neutron capture at 4 to 60 keV, cross section for, (E), 24:33154
neutron capture by, cross section calculation in the unresolved resonance region, (T), 24:22205
neutron capture cross section for, review of data on, 24:15868 (KFK-966)
neutron capture cross sections at 4 to 60 keV, (E), 24:49862(R) (RPI-328-187)
neutron capture cross sections for, 21:24833 (GEAP-5433)
neutron capture cross sections for reactor-spectrum and 0.025-eV neutrons, 21:5538
neutron capture in 1.056-eV resonance of, pseudo-resonance escape probability for, (E), 24:52574
neutron capture resonances at 38 to 820 eV, radiative widths for, (E), 22:32598
neutron capture-to-fission ratio as function of position in EBR-II, (E/T), 22:53165 (ANL-7425, pp 190-2)
neutron capture-to-fission ratio, (E), 21:1077 (LA-DC-7813)
neutron capture-to-fission ratios for, 25:39470(R) (ANL-7750)

  neutron capture-to-fission ratios for, effects of EBR-II core position on, (E), 25:56982 (ANL-7791)
  neutron capture-to-fission ratios in EBR-II, position-dependent, (E/T), 22:27086 (ANL-7375, pp 176-7)
  neutron capture-to-fission ratios in, in EBR-II, 21:25935(R) (ANL-7225)
  neutron cross section data on, tables of multigroup, 25:28657 (HEDL-TME-71-36)
  neutron cross section for, comparison of calculations and integral measurements of, 24:6885 (LA-3529)
  neutron cross section ratios as a function of fuel burnup of, correlation of effective, 22:12085 (BNWL-472, pp 3.1-33)
  neutron cross section resonance broadening at 1.05 eV with temperature, (T), 22:30343(R) (EURAEC-1992)
  neutron cross sections and fission parameters of, data on, 21:25504 (EANDC(E)-74(U))
  neutron cross sections and resonance parameters at 0.01 eV to 15 MeV, data evaluation for, 22:22578 (IA-1152)
  neutron cross sections and resonance parameters for, evaluated data on, 22:35347
  neutron cross sections and resonance parameters for, ENDF/B data evaluation for, 22:48508 (APDA-218)
  neutron cross sections at 0.001 to 1 MeV, (T), 25:15129
  neutron cross sections at 0.001 to 14 MeV, data compilation on, 22:50599 (LA-3528)
  neutron cross sections at 0.001 to 15 MeV, 21:9996 (IA-1094)
  neutron cross sections at 0.01 to 15 MeV, (T), 25:15133
  neutron cross sections at 0.037 eV to 18 MeV, tables of, 21:27579 (UNC-5099)
  neutron cross sections for graphite moderated calculation at 300° and 1500°K of 1 eV, 24:11313 (AEEW-M-155)
  neutron cross sections for graphite moderated plutonium carbide (PuC) containing, calculation at 300° and 1500°K of, 24:11314 (AEEW-M-236)
  neutron cross sections for, calculation of 0.001 to 9 eV, 23:17265(R) (GA-9051)
  neutron cross sections for, calculation of effective, 23:13504(R) (GA-6742)
  neutron cross sections for, comparison of data evaluations on, (T), 23:5892
  neutron cross sections for, comparison of ENDF/B data sets on, 24:46011(R) (AI-AEC-12969)
  neutron cross sections for, modification of ENDF/B representations of, 24:40620 (WCAP-7365)
  neutron effective resonance integral and Doppler coefficient for, calculations using LUBRA programs, 21:33953 (AAEC/E-168)
  neutron elastic and inelastic scattering up to 1.5 MeV, cross sections for, (E), 25:43884 (ANL-7710, pp 1-52)
  neutron elastic scattering at 0.1 to 1.5 MeV, cross section for, (E), 25:48069 (BNL-50276)
  neutron elastic scattering by, Legendre expansion coefficients of angular distributions for fast, (T), 22:22523 (NAA-SR-12533)
  neutron fission at 0.1 to 1.5 MeV, angular distribution of fragments from, (E), 25:15051
  neutron fission at 0.2 to 8 keV, resonance grouping structure in cross section for subthreshold, (E), 23:5923
  neutron fission at 0.5 to 3 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
  neutron fission at 0.6 to 5 MeV, mean prompt neutron production from, (E), 25:15115
  neutron fission at 2 to 20 MeV, cross sections for, (E), 25:39055
  neutron fission at epicadmium energies, rate for, (E), 24:33153
  neutron fission at thermal to 15 MeV, number of neutrons per fission from, (E/T), 25:39055
  neutron fission cross section at 0.2 to 8 keV, resonance structure and widths for, (E), 22:27095
  neutron fission cross section at 1 to 14 MeV, (E), 21:42636
  neutron fission cross section at 5 to 150 keV, (E), 21:35437(R) (EANDC(E)-76(U))
  neutron fission cross section for, interpretation of subthreshold, (T), 22:42064
  neutron fission cross section relative to uranium-235, (E/T), 21:40420 (AEEW-R-526)
  neutron fission cross sections at 0.001 to 10 MeV, 21:2732
  neutron fission cross sections at 1 keV to 10 MeV, (E), 22:24873
  neutron fission cross sections at 1 keV to 15 MeV, evaluated, 23:40030 (AHSB(S)R-169)
  neutron fission cross sections at 20 eV to 1 MeV, (E), 21:10004 (LA-3586)
  neutron fission cross sections at 5 to 150 keV, (E), 21:17350 (KFK-450)
  neutron fission cross sections, (E), 21:1077 (LA-DC-7813)
  neutron fission from thermal energies to 14 MeV, calculations of total energy released during, (T), 25:43885 (ANL-7748)
  neutron fission of intermediate structure effects in, (E), 25:14997
  neutron fission of, angular distribution of fragments from, (E), 24:30787
  neutron fission of, calculated independent fragment yields from fast-reactor, (T), 23:32922 (AERE-R-6056)
  neutron fission of, calculation of independent yields in thermal, 21:33955 (AERE-R-5488)
  neutron fission of, cross section calculation in the unresolved resonance region, (T), 24:22205
  neutron fission of, cross section relative to uranium-235 for fast, (E), 25:17920
  neutron fission of, double barrier description of angular anisotropy of, (E/T), 25:39007
  neutron fission of, energy integral test of cross section for, (E/T), 25:5773
  neutron fission of, epicadmium energy integral rates for, (E/T), 25:17915
  neutron fission of, neutron emission in, 21:12023 (NP-16440)
  neutron fission of, review of data on slow, 23:37192 (KURRI-TR-10, pp 3-19)
  neutron fission rate in plutonium oxide (PuO_2)—uranium oxide (UO_2) two zone core, (E), 25:44096 (ANL-7710, pp 53-262)
  neutron fission up to 1 MeV, spacing of class II resonances in, (T), 25:50786
  neutron group constants for, calculation of fast, 24:52361 (JAERI-1195(Pt.1))
  neutron reactions at less than 1 MeV, cross sections and resonance parameters for, (E), 25:10021 (CEA-N-1273)
  neutron reactions with, accumulation of transplutonium isotopes from, 25:15691
  neutron reactions with, group-averaged cross sections and resonance parameters for, (E/T), 25:17862 (JAERI-1199)
  neutron reactions with, re-evaluation for ENDF/B-II of cross sections and resonance parameters for thermal, (E), 25:48070 (BNWL-1586)
  neutron resonance absorption for, calculation of, 23:26108 (EUR-3940-1, pp 3-25)
  neutron resonance absorption in heterogeneous systems, (T), 21:11921 (EUR-3151.e)
  neutron resonance absorption in reactors, maximum Doppler effect for, (T), 21:27616
  neutron resonance absorption rates for, comparison of methods for calculating, 21:29955 (AAEC/TM-362)
  neutron resonance capture in beryllium oxide (BeO) moderated, calculation methods for 300° and 1500°K of 1 eV, (E/T), 24:11312 (AEEW-M-154)
  neutron resonance cross section analysis, method for, 21:13969(R) (GA-6245)
  neutron resonance integral, 21:27667(R) (GA-5808)
  neutron resonance integral at thermal energies, 23:46981 (CEA-R-3650)
  neutron resonance integrals below 150 eV, effects of mutual shielding on, (E), 23:28318
  neutron resonance integrals in square lattices containing, Dancoff correction effects on, 22:12085 (BNWL-472, pp 3.1-33)
  neutron resonance of, effects of temperature on, 22:49817(R) (EURAEC-2036)
  neutron resonance parameters at 0.8 to 5 keV, (E), 22:18293
  neutron resonance parameters at 1 eV, (E), 25:15092
  neutron resonance parameters at 20 to 287 eV, (E), 23:5921
  neutron resonance parameters at 20 to 500 eV, (E), 25:25726 (RPI-328-223)
  neutron resonance parameters at 38 to 1500 eV, (E), 22:32597
  neutron resonance parameters at 38 to 820 eV, from area analysis of capture and transmission data, (E), 23:5924
  neutron resonance parameters for, calculation of 0.05 to 200 keV, 23:21552
  neutron resonance parameters for, review, (E/T), 22:3738
  neutron resonance parameters for, updated library of, 22:37277 (AI-AEC-Memo-12645)
  neutron resonance parameters of, library of TRIX-1 code, 21:1078 (NAA-SR-Memo-12102)
  neutron resonance self-shielding factors at high temperature, calculations using ladder method, (T), 22:35348
  neutron scattering at 0.018 to 2.5 keV, cross section and resonance parameters for, (E), 23:5921
  neutron strength functions for, calculation using deformed nucleus optical model, (T), 22:27093
  neutron strength functions for, effect of nuclear deformation on, (T), 22:18211 (NAA-SR-Memo-12538)
  neutron total cross section and resonance parameters at 0.02 to 5.7 keV, transmission measurements on, (E), 23:5922
  neutron total cross section and resonance parameters at 20 to 800 eV, (E), 22:18293
  neutron total cross section at 0.1 to 1.5 MeV, (E), 25:48069 (BNL-50276)
  neutron total cross section at 20 to 5700 eV, (E), 22:32597
  neutron total cross section up to 1.5 MeV, (E), 25:43884 (ANL-7710, pp 1-52)
  neutron transmission to 1 keV, (E), 24:49862(R) (RPI-328-187)
  nuclear deformation energies of, (T), 22:30077
  nuclear pairing energy in plutonium-239 fast neutron fission, (E), 22:53209
  nuclear pairing in plutonium-239 neutron fission, (E/T), 23:5928
  photofission at 12 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
  photofission at 5 to 10 MeV, angular distributions and fragment yields for, 24:52561(T) (LA-4385-TR)
  photofission at 5 to 10 MeV, fragment yields and angular distributions for, (E), 24:38288
  photofission at 5 to 8 MeV, angular distribution of fragments from, (E), 23:37207
  photofission at 5 to 8 MeV, fission-fragment angular distributions from, (E), 22:3688 (FEI-73)
  photofission at 5 to 8 MeV, fission-fragment angular distribution near threshold for, (E), 22:18275
  photofission at 5 to 8 MeV, fission-fragments angular distributions from, (E), 22:42010(T) (ANL-Trans-639)
  photofission of, angular distribution of fragments from, (E), 24:30787
  physics calculations for water moderated reactor core lattices of, 21:35702 (BNWL-CC-1205)
  preparation of aluminum-clad foils of, method for, 25:58180 (CONF-711002-, pp 70-6)
  production and properties of spontaneously fissioning isomeric, 23:46989 (RLO-1388-97)
  production of isomeric, in uranium-238 (α,2n) reactions, thresholds and ratios for, (E), 24:35872
  properties as reactor fuel, technology of, 21:36844
  proton inelastic scattering at 20 MeV, fission probability in, (E), 24:30784
  proton inelastic scattering at 20 MeV, fission probability in, (E), 23:49398 (WASH-1127)
  proton reactions (p,2n) at 10 to 13 MeV, cross section for delayed fission in, (E), 24:13349
  proton reactions (p,2n) with, fragment energy and mass distributions from isomers formed by, (E), 24:35871
  proton reactions (p,n) at 10.3 to 11.3 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:15576
  reactivity worth determination in ZPR-3, 22:32734 (ANL-7310, pp 137-248)
  reactivity worth of, analysis of, (E/T), 22:32969 (GA-8468)
  reactivity worth of, calculation of central, (E/T), 21:1208 (LA-DC-7962)
  reactivity worth of, measurement in plutonium nitrate solution of, 22:25078 (CEA-R-3367)
  reactivity worth of, temperature coefficient of, (E), 22:5744
  resonance escape probability for graphite moderated plutonium carbide (PuC) containing, calculation at 300° and 1500°K of, 24:11314 (AEEW-M-236)
  resonance escape probability for graphite moderated, calculation at 300° and 1500°K of 1 eV, 24:11313 (AEEW-M-155)
  separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
  separation from spent power reactor fuel elements, economic aspects of, 24:9609
  sorption of, by manganese oxides in water works filter bed materials, 21:16006
  triton reactions (t,df) with, fission probability and angular correlation coefficients for, (E), 25:12579
  triton reactions (t,p) at 18 MeV, Q-value for, (E), 24:11004
  triton reactions (t,pf) at 18 MeV, fission probabilities for, (E), 25:3679
  triton reactions (t,pf) at 18 MeV, fission probabilities and fragment angular distributions for, (E), 23:42912 (LA-4198)
  triton reactions (t,pf) at 18 MeV, fission probability and fragment angular correlations for, (E), 25:7880
  triton reactions (t,pf) at 18 MeV, proton spectra, fission probabilities, and fission-fragment angular distributions from, (E/T), 25:17918
  uptake by organisms of marine food chain, effects of physico-chemical form on, 25:55149 (BNWL-SA-4048)
  use as tracer in measuring self-diffusion in plutonium, 22:49764
  use for fast reactor fuel, advantages and disadvantages of, 23:37537
  use in Masurca fuel elements, 23:8129 (EUR-3663)
PLUTONIUM ISOTOPES Pu-241
  alpha and beta decay of, gamma spectra and half-life for, (E), 25:14981 (IN-1448)
  alpha decay of, α-γ and γ-γ coincidence spectra for, (E), 22:53182
  alpha decay of, gamma energies and absolute branching intensities for, (E), 25:56753 (UCRL-51087)
  alpha spectra of, energies of intense lines in, (E), 22:35357
  beta decay energy of, calorimetric measurement of average, (E), 22:27115
  beta decay of ground-state and isomeric, half-lives for, (E), 24:18412
  beta decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
  beta decay of, effect on analysis of plutonium critical experiments of, (T), 25:8122
  beta decay of, half-life for, (E), 22:48549
  beta spectra of, 2π proportional detector measurement of, 24:20981 (CEA-R-3938)
  buildup in plutonium oxide (PuO_2)—uranium oxide (UO_2) lattice, effects on reactivity of, 24:31041(R) (BNWL-1381-1)
  content in material moving in and out of fuel fabrication facility, performance of instruments for measuring, 25:21300
  content in stratospheric fallout, 22:8224
  content in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
  content of liver of rats, use of electron microscope autoradiography for determining, 23:45642
  cost of reactor fuels of, effects on liquid sodium-cooled fast power reactor development, 22:50733 (GEAP-5635)
  decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
  decay scheme, 25:57998 (NIRS-Pu-8)
  delayed neutron parameters for, 24:47818 (ANL-7610, pp 61-258)
  determination in biological materials by gel scintillation counting, 25:20927 (AERE-R-6640)
  determination in chest and liver of man, method for predicting background for in vivo scintillation detector for, 23:7737 (RFP-893)
  determination in irradiated Yankee Power Reactor fuels, gravimetric and volumetric methods for, 24:417 (WCAP-3896-1)
  determination in liquid waste effluents from nuclear fuel reprocessing plant by scintillation counting, 25:12950 (BRH/NERHL-70-2)
  determination in plutonium by α counting, 24:50353 (CONF-690916-(Vol.2), pp 252-6)
  determination in plutonium by mass spectrometry, 23:49724
  determination in plutonium compounds, accountability methods for, 22:6 (CONF-661011, pp 135-45)
  determination in plutonium nitrate solutions in polyethylene storage bottles, 25:39432(R) (BHO-69-3)
  determination in plutonium nitrates, general analytical evolution program for, 21:38872(R) (NBL-239)
  determination in plutonium sources by γ spectroscopy, 24:46190 (BNL-50237)

determination in plutonium-242 by α-γ coincidence spectrometry, 24:36344 (CEA-N-1241, pp 375-425)
determination in plutonium-242, radiometric, 24:29210 (CEA-CONF-1535)
determination in plutonium-242-enriched plutonium by α-γ coincidence measurements, 23:49731 (CEA-R-3774)
determination in reactor fuel elements, reliability of destructive and nondestructive methods for, (E), 25:32178 (CONF-700541-, pp 363-8)
determination in reactor fuel plates, nondestructive method for, 25:32174 (CONF-700541-, pp 266-80)
determination in relation to plutonium-239 by γ spectrometry, 24:11461
determination in spent fuel elements by γ and neutron counting, effects of matrix on, 25:20936
determination in stratospheric fallout by α spectroscopy, 22:8224
deuteron reactions (d,2n) at 13 MeV, cross section for delayed fission in, (E), 24:13349
deuteron reactions (d,p) at 11 to 13 MeV, cross section for delayed fission in, (E), 24:13349
deuteron reactions (d,p) at 13 MeV, fission probability in, (E), 23:37261
deuteron reactions (d,pf) at 13 MeV, analysis of resonances in, (E/T), 24:30783
deuteron reactions (d,pf) at 13 MeV, analysis using double-humped barrier, (E/T), 25:36746
distribution in clad uranium dioxide fuel rod at 27,700 to 42,500 MWd/t burnup, 24:21445(R) (GEAP-10121)
distribution in liver of rats, electron microscopy and autoradiography of, 23:50326
distribution in uranium oxide (UO_2) fuel elements, effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
energy levels from curium-245 decay, (E), 21:12068
energy levels from plutonium-242 (d,t) and (He-3,α) reactions, 25:46069
energy levels from plutonium-242 (d,t) and (He-3,α) reactions, Nilsson and spin—parity assignments and spectroscopic factors for, (E), 25:41230(R) (NYO-3938-4)
energy levels of, calculation using Saxon—Woods potential of energy and structure of, (T), 25:50754
energy levels of, negative results of search for 0.34-yr isomeric, (E), 25:34121
energy levels of, neutron single-particle, (E), 22:27087(R) (ANL-7405)
energy levels of, search for long-lived isomeric, (E), 25:5759
eta measurements for, use of scandium-collimated 0.0235 eV neutron beam from MTR for, 23:26086 (IN-1218, pp 1-56)
fission barrier of, odd-particle effects on, (T), 25:28314 (CERN-70-30(Vol.2), pp 700-8)
fission by thermal neutrons, yields of 43 mass chains from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of 95, 97, and 99 mass chains from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of antimony-125 from, 23:23910(R) (IN-1277)
fission by thermal neutrons, yields of stable and long-lived ruthenium isotopes from, 23:23910(R) (IN-1277)
fission of isomeric, half-life and excitation energy of spontaneous, (E), 24:49916
fission of isomers of, spontaneous, (E), 25:15046
fission of shape isomeric, excitation energy for, (E), 24:38209 (JINR-E15-5071)
fission of, absolute yield of delayed neutrons from, 24:18901(R) (LA-4320)
fission of, channel calculation of spin and energy dependence of widths for, (T), 24:35884
fission of, energy-dependent neutron yield for, 25:10025 (INDC(NDS)-19/N)
fission-isomeric state of, single-particle calculation for, 24:13406
gamma dose rates from, in plutonium dioxide, 22:31060 (MLM-1460)
gamma spectra, (E), 25:17861 (IN-1448(Rev.))
half life calculations for, 21:30181(R) (WCAP-6082)
half life of, measurement by reactivity, 21:8066
half-life of isomeric, (E), 24:13349
half-life of, mass spectrometric determination of, 24:27189(R) (MLM-1612)
half-life of, mass-spectrometric measurement of, (E), 23:1924
half-life, (E), 22:1662
half-life, (E), 25:34121
hazards to man from inhalation of, 25:37818 (EUR-4612, pp 363-82)
hyperfine structure anomaly of, from s electron, 25:2893
inhalation of, americium-241 buildup in lungs after, 25:11053 (BNWL-B-12)
inhalation of, relative hazards from, 24:31973
isotopic shift measurements for, 22:13250
magnetic moment of, 24:11423 (CEA-N-1148, pp 3-80)
magnetic moment of, 23:40535 (CEA-N-1044, pp 3-50)
magnetic moment of, 24:22576(T) (ANL-Trans-796)
metabolism and tissue distribution following intake by man, 25:42467
monitoring of, liquid scintillation coincidence system for, 23:2595
neutron absorption and capture cross sections for reactor-spectrum and 0.025-eV neutrons, 21:5538
neutron absorption and fission cross sections at 0 to 2000°C, g-factors for, 21:31803
neutron absorption at 0.0253 to 0.60 eV, measurement of fission neutron number eta in, (E), 23:5927
neutron absorption at 0.06 to 0.26 eV, neutron yield from, (E), 25:48073 (IN-1407, pp 1-82)
neutron absorption at 0.060 to 0.260 eV, eta factor for, (E), 25:48069 (BNL-50276)
neutron absorption by, eta measurements using reactivity data, 21:42610 (IN-1060)
neutron capture to fission ratios for reactor-spectrum and 0.025-eV neutrons, 21:5538
neutron capture-to-fission ratio for, epithermal, (E), 25:31353
neutron capture-to-fission ratio for, resonance, (E), 22:42016 (KAPL-P-3438)
neutron capture-to-fission ratio in reactor spectrum, (E), 25:41243
neutron cross section data on, tables of multigroup, 25:28657 (HEDL-TME-71-36)
neutron cross section ratios as a function of fuel burnup of, correlation of effective, 22:12085 (BNWL-472, pp 3.1-33)
neutron cross sections and fission parameters of, data on, 21:25504 (EANDC(E)-74(U))
neutron cross sections and resonance parameters at 0.01 eV to 15 MeV, data evaluation for, 22:22578 (IA-1152)
neutron cross sections and resonance parameters for, evaluated data on, 22:35347
neutron cross sections and resonance parameters from cadmium cutoff to 10 keV, 21:29962 (NAA-SR-11980(Vol.5))
neutron cross sections at 0.001 to 15 MeV, 21:9996 (IA-1094)
neutron cross sections at 0.01 to 15 MeV, (T), 25:15133
neutron cross sections at 10^{-7} to 1 keV, 21:21515 (AEEW-M-714)
neutron cross sections for, accuracy of dg/dT data for, 24:49673 (AECL-3605)
neutron cross sections for, calculation of effective, 23:13504(R) (GA-6742)
neutron cross sections for, modification of ENDF/B representations of, 24:40620 (WCAP-7365)
neutron cross sections for, preparation of oxide samples for measurement of, 25:35541
neutron cross sections for, thermal, 23:37233
neutron cross-section calculations for, accurate g-factors for thermal, (T), 24:1720 (AECL-3255)
neutron fission at 0.001 to 3 keV, cross sections for, (E/T), 25:15086
neutron fission at 0.005 to 1 MeV, ratio of uranium-235 fission cross section to cross section for, (E), 25:15107
neutron fission at 0.0253 and 0.060 eV, absolute eta value for neutron emission in, (E), 23:1882 (WASH-1093)
neutron fission at 0.1 to 6.0 keV, analysis of intermediate structure in cross section and resonance parameters for, (T), 25:50717 (ANL-7815)
neutron fission at 0.5 to 14.8 MeV, prompt anti τ for, (E), 22:9847 (FOA-4-4318-22)
neutron fission at 0.5 to 14.8 MeV, prompt neutron emission in, (E), 22:14029
neutron fission at 0.5 to 2 MeV, cross-section calculation using Hauser—Feshbach theory and (t,pf) data, (T), 24:40550 (WASH-1136)
neutron fission at 10 eV to 20 keV, average cross sections and resonance integrals from SCISRS data tapes for, 23:49381 (AERE-M-2157(Rev.))
neutron fission at 10 eV to 20 keV, average cross sections and resonance integrals for, 23:30995 (AERE-M-2157)
neutron fission at 17 keV to 1 MeV, absolute cross section for, (E), 25:53733 (CONF-701002-, pp 257-71)
neutron fission at 2 to 20 MeV, cross sections for, (E), 25:39055
neutron fission at 2 to 2000 eV, cross section for, (E), 25:15083
neutron fission at epicadmium energies, rate for, (E), 24:33153
neutron fission at thermal energies, kinetic energies of fission fragments from, (E), 21:2744
neutron fission at thermal to 15 MeV, number of neutrons per fission from, (E/T), 25:39055
neutron fission cross section at 1 to 14 MeV, (E), 21:42636
neutron fission cross section at 2 keV, (E), 23:1882 (WASH-1093)
neutron fission cross section at 2 keV, measurements using fission chambers, (E), 22:32588
neutron fission cross section relative to uranium-235, (E/T), 21:40420 (AEEW-R-526)
neutron fission cross sections, 21:35381 (ANL-7320, pp 16-21)
neutron fission cross sections at 0.001 to 10 MeV, 21:2732
neutron fission cross sections at 0.016 to 0.55 eV, (E), 21:4320
neutron fission cross sections at 1 keV to 10 MeV, (E), 22:24873
neutron fission cross sections at 1 keV to 15 MeV, evaluated, 23:40030 (AHSB(S)R-169)
neutron fission cross sections at 20 eV to 1 MeV, (E), 21:10004 (LA-3586)
neutron fission cross sections from plutonium-240 (t,pf) reactions at 18 MeV, (E), 25:3679
neutron fission cross sections, (E), 21:1077 (LA-DC-7813)
neutron fission from thermal energies to 14 MeV, calculations of total energy released during, (T), 25:43885 (ANL-7748)
neutron fission of energy spectra of fragments from ternary thermal, (E), 24:30777
neutron fission of intermediate structure effects in, (E), 25:14997
neutron fission of, analysis of mass balance in thermal, 22:37400 (AECL-3109)
neutron fission of, α spectra from thermal, (E), 23:5884
neutron fission of, calculated independent fragment yields from thermal, (T), 23:32922 (AERE-R-6056)
neutron fission of, compilation of fragment yields and charge distributions from, 23:34784 (APED-5398-A(Rev.))
neutron fission of, cumulative chain-yield to iodine-135 relative to fission of plutonium-239, (E), 25:34087
neutron fission of, cumulative yields in mass-135 chain for thermal, 24:16545(R) (AECL-3477)
neutron fission of, dynamic-model calculations of heavy-fragment kinetic-energy and mass distributions for thermal, (T), 25:50769
neutron fission of, effective energy release in thermal, (E), 24:11012
neutron fission of, epicadmium energy integral rates for, (E/T), 25:17915
neutron fission of, fission yield from thermal, (E), 25:28354 (NP-18723)
neutron fission of, fission-fragment energy and mass distributions from ternary thermal, (E), 21:17369
neutron fission of, fission-product charge distributions and yields in, (E), 22:46761 (APED-5398)
neutron fission of, fission-product yields from thermal, (E), 22:3690 (GEAP-5356)
neutron fission of, fragment yields from, (E/T), 25:23017 (ANL-7749)
neutron fission of, independent yield of xenon-135 relative to cumulative chain yield of iodine-135 from thermal, (E), 25:34087
neutron fission of, iodine-131 yields in, 21:18301(R) (IN-1048)
neutron fission of, iodine-135 yield and fission-product absorption cross sections in, (E), 22:16045
neutron fission of, krypton-85 branching ratios and yields in thermal, (E), 25:28383
neutron fission of, neutron emission in, 21:12023 (NP-16440)
neutron fission of, neutron emission in fast, (E), 21:12013(R) (EANDC(OR)-44(L))
neutron fission of, τ values for prompt neutron emission in, (E), 22:18250
neutron fission of, probability for alpha emission during, (T), 21:23492
neutron fission of, prompt neutron emission in thermal, (E), 21:29954 (AAEC/E-172)
neutron fission of, prompt neutron production in, (E), 21:7813
neutron fission of, prompt neutron yield from thermal, (E), 24:38283
neutron fission of, prompt neutron yield from thermal, (E), 24:40600 (ANL-7625)
neutron fission of, prompt neutron yield from, (E), 25:56743 (NP-18966)
neutron fission of, resonance integral for, (E), 24:43332
neutron fission of, survey of yields from fast and thermal, 22:20559 (AERE-R-5086)
neutron fission of, triple coincidence studies of ternary thermal, (E), 23:15432(R) (ORO-2843-13)
neutron fission of, tritium yields from, (T), 22:37312 (ANL-7450, pp 105-7)
neutron fission of, tritium yields in fast, (T), 22:53165 (ANL-7425, pp 190-2)
neutron fission of, yield from reactivity transient measurements, (E), 21:46718 (IN-1096)
neutron fission of, yields for thermal, (E), 25:5765
neutron fission of, yields from thermal, (E), 24:3914 (AERE-R-6154)
neutron fission of, yields of rare earth isotopes from thermal, 25:15689
neutron fission of, yields of rare earth isotopes from thermal, 25:15690
neutron fission parameters for, survey of, 22:22612
neutron fission rates in water moderated plutonium recycle fuel lattices, (E/T), 24:43856
neutron fission up to 1 MeV, spacing of class II resonances in, (T), 25:50786
neutron fission yields of cesium and stable neodymium isotopes from irradiated, thermal, 22:16316(R) (GEAP-5505)
neutron fission yields, thermal, 22:47074(R) (IN-1215)
neutron group constants for, calculation of fast, 24:52361 (JAERI-1195(Pt.1))
neutron production values for, relative to uranium-235, 21:18301(R) (IN-1048)
neutron reactions (n,f) and (n,γ) at energies between Cd cutoff and 10 keV, cross sections for, (E), 21:5558
neutron reactions (n,γ) and (n,f) with, cross-section ratios for thermal, (E), 21:4321
neutron reactions up to 50 eV, single-level resonance parameters for ENDF/B II, 25:48073 (IN-1407, pp 1-82)
neutron reactions with, re-evaluation for ENDF/B-II of cross sections and resonance parameters for thermal, (E), 25:48070 (BNWL-1586)
neutron resonance parameters for, calculation of 0.05 to 200 keV, 23:21552
neutron resonance parameters of, library of TRIX-1 code, 21:1078 (NAA-SR-Memo-12102)
neutron resonance self-shielding factors at high temperature, calculations using ladder method, (T), 22:35348
neutron scattering at 2 to 34 eV, excitation functions for, (E), 21:25518 (WASH-1071)
neutron scattering cross section and resonance parameters at 4 to 32 eV, (E), 23:1882 (WASH-1093)
neutron scattering cross sections and resonance parameters at 1 to 30 eV, (E), 22:20577 (UCRL-70826)
neutron scattering cross sections and resonance spins at 1 to 30 eV, (E), 22:53193
neutron scattering cross sections at 2 to 32 eV, (E), 21:7773 (UCID-15036)
neutron scattering cross sections at 2 to 32 eV, (E), 21:12027(R) (UCRL-50001-66-2)
neutron total cross section at 0.002 to 0.1 eV, (E), 23:1882 (WASH-1093)
neutron total cross section at 0.0253 eV, ((E), 24:40607 (IN-1317, pp 1-63)
neutron total cross section for, measurement in MTR from 0.02 to 0.1 eV of, 23:26086 (IN-1218, pp 1-56)
nuclear magnetic moment, 25:2893
nuclear magnetic moment of, (E), 23:47035
nuclear quadrupole moment of, hyperfine structure in, (E), 21:10010 (UCRL-16999)

  - preparation of activation detectors of, for capture-to-fission measurements in EBWR, 22:32961 (ANL-7310, pp 377-430)
  - preparation of aluminum-clad foils of, method for, 25:58180 (CONF-711002-, pp 70-6)
  - preparation of isotopically pure, method for, 21:43565 (RFP-1007)
  - properties as fuel for radioisotope-powered cardiac pacemaker, 22:32578 (TID-24373(Pt.2))
  - properties as reactor fuel, technology of, 21:36844
  - proton reactions (p,2n) at 9.6 to 13.6 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:19243 (JINR-E7-3160)
  - proton reactions (p,2n) at 9.6 to 13.6 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:15576
  - reactivity worth of, temperature coefficient of, (E), 22:5744
  - separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
  - separation from spent power reactor fuel elements, economic aspects of, 24:9609
  - shipping methods for, IAEA requirements for, 22:28041
  - yields from thermal neutron fission of reactor fuels, isotope dilution mass spectrometric studies on, 24:2101 (IN-1316, pp 76-84)
- PLUTONIUM ISOTOPES Pu-242
  - alpha decay of, α energies and half-life for, (E), 23:17113
  - alpha decay of, decay constant and half-life for, 21:46722 (NAA-SR-12271(Suppl.1))
  - alpha decay of, half-life for, (E), 21:46723 (ORNL-4164, pp 1-23)
  - alpha decay of, partial half-lives for, (E), 23:1880 (ORNL-4306, pp 22-45)
  - alpha spectra of, energies of intense lines in, (E), 22:35357
  - analysis for plutonium-241 by α-γ coincidence spectrometry, 24:36344 (CEA-N-1241, pp 375-425)
  - analysis for plutonium-241, radiometric, 24:29210 (CEA-CONF-1535)
  - analysis for trace contaminants by spark-source mass spectrometry, 23:9305 (ORNL-4343, pp 57-8)
  - content in material moving in and out of fuel fabrication facility, performance of instruments for measuring, 25:21300
  - content in spent fuels from fast and thermal reactors, relations with burnup, (E), 25:21321
  - content in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
  - cost of reactor fuels of, effects on liquid sodium-cooled fast power reactor development, 22:50733 (GEAP-5635)
  - decay kinetics calculations for radioisotope-powered cardiac pacemaker, (T), 22:32577 (TID-24373(Pt.1))
  - decay scheme, 25:57998 (NIRS-Pu-8)
  - deformation of, coefficient of nuclear, 23:40535 (CEA-N-1044, pp 3-50)
  - delayed neutron parameters for, 24:47818 (ANL-7610, pp 61-258)
  - determination in irradiated plutonium, 21:19353(R) (EURAEC-1774)
  - determination in irradiated Yankee Power Reactor fuels, gravimetric and volumetric methods for, 24:417 (WCAP-3896-1)
  - determination in plutonium by mass spectrometry, 23:49724
  - determination in plutonium sources by γ spectroscopy, 24:46190 (BNL-50237)
  - deuteron fission at 14 MeV, fragment energy spectra from, (E), 22:16049
  - deuteron reactions (d,2n) with, cross-section ratio for production of isomeric americium-242, (E), 21:40426 (JINR-P7-3262)
  - deuteron reactions (d,2n) with, isomeric cross-section ratio for americium-242 from, (E/T), 22:22606
  - deuteron reactions (d,2nγ) at 7 to 13 MeV, fission properties of isomeric americium-242 from, (E/T), 22:1735
  - deuteron reactions (d,p) and (d,t) with, Q-value for, (E), 23:21370
  - deuteron reactions (d,p) and (d,t) with, Q-values for, (E), 22:11945(R) (ANL-7384)
  - deuteron reactions (d,p) at 11 to 13 MeV, cross section for delayed fission in, (E), 24:13349
  - deuteron reactions (d,pf) with, fission probability and angular correlation coefficients for, (E), 25:12579
  - deuteron reactions (d,t) at 17 MeV, cross sections and energy spectra from, (E), 25:41230(R) (NYO-3938-4)
  - deuteron reactions (d,t) at 17 MeV, triton spectra from, (E), 25:46069
  - distribution in clad uranium dioxide fuel rod at 27,700 to 42,500 MWd/t burnup, 24:21445(R) (GEAP-10121)
  - distribution in uranium oxide (UO_2) fuel elements, effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
  - energy levels from curium-246 decay, (E), 21:12068
  - fabrication into HFIR target elements, 21:14087 (ORNL-3970, pp 179-84)
  - fabrication of HFIR fuel elements of, 21:1421(R) (ORNL-3965)
  - fission of, average number of prompt neutrons in spontaneous, (E), 23:32924(T) (BNL-tr-266)
  - fission of, mass distribution of fission fragments from spontaneous, (E), 22:53216
  - fission of, mass-yield distribution of iodine isotopes from spontaneous, (E), 22:1678
  - fission of, neutron emission in spontaneous, 21:12023 (NP-16440)
  - fission of, neutron spectra from spontaneous, (E), 23:37214
  - fission of, neutrons per fission in spontaneous, (E), 23:37248
  - fission of, prompt neutron emission in spontaneous, (E), 22:18248
  - fission of, prompt neutron yield for spontaneous, (E), 25:56743 (NP-18966)
  - fission of, ternary, (E), 21:10006(R) (ORO-2843-11)
  - fission of, yields of iodine isotopes in spontaneous, (E), 21:14930(R) (ORO-3235-12)
  - half-life of isomeric, (E), 24:13349
  - half-life of, partial alpha-decay, 23:9357 (ORNL-4343, pp 91-3)
  - helium-3 reactions (He-3,α) at 30 MeV, alpha spectra from, (E), 25:46069
  - helium-3 reactions (He-3,α) at 30 MeV, cross sections and energy spectra from, (E), 25:41230(R) (NYO-3938-4)
  - helium-3 reactions at 30 MeV with fission isomer excitation, cross section for, (E), 24:30788
  - incorporation in radiation targets, 23:8340 (ORNL-4370, pp 193-7)
  - inhalation of, relative hazards from, 24:31973
  - isotopic shift measurements for, 22:13250
  - neon-22 ion reactions with, production of element 104 in, 22:12342(T) (JPRS-44045)
  - neon-22 reactions (Ne-22,4n) and (Ne-22,α4n) with, cross sections for, (E), 22:39632 (JINR-P7-3835)
  - neon-22-ion bombardment of, thermochromatographic separation of element-104 from products of, 25:51581 (JINR-D12-5845)
  - neutron absorption cross section and resonance integral in reactor spectrum, (E), 25:41235
  - neutron absorption cross section at 0.0253 eV, (E), 25:34105
  - neutron absorption cross section for, thermal, (E), 22:37341 (IN-1132)
  - neutron absorption resonance integral and s-wave strength function at 0.008 to 8000 eV, (E), 22:37341 (IN-1132)
  - neutron capture and fission and fission resonance integrals for, thermal, (T), 21:38317
  - neutron capture and fission cross sections and resonance integrals for, recommended values for thermal, 22:39627 (BNL-50082, pp 19-24)
  - neutron capture by, cross section for thermal, (E), 24:26646
  - neutron capture by, cross sections for production of plutonium-243 in, 21:15915 (DP-MS-66-69)
  - neutron capture experiments using nuclear explosions, heavy element yields for multiple, (E), 23:13302
  - neutron capture-to-fission ratio as function of position in EBR-II, (E/T), 22:53165 (ANL-7425, pp 190-2)
  - neutron capture-to-fission ratios for, 25:39470(R) (ANL-7750)
  - neutron capture-to-fission ratios for, effects of EBR-II core position on, (E), 25:56982 (ANL-7791)
  - neutron capture-to-fission ratios in EBR-II, position-dependent, (E/T), 22:27086 (ANL-7375, pp 176-7)
  - neutron capture-to-fission ratios in, in EBR-II, 21:25935(R) (ANL-7225)
  - neutron cross section data on, tables of multigroup, 25:28657 (HEDL-TME-71-36)
  - neutron cross sections and fission parameters of, data on, 21:25504 (EANDC(E)-74(U))
  - neutron cross sections and resonance parameters at 0.01 eV to 15 MeV, data evaluation for, 22:22578 (IA-1152)
  - neutron cross sections and resonance parameters for, evaluated data on, 22:35347
  - neutron cross sections at 0.001 to 15 MeV, 21:9996 (IA-1094)
  - neutron cross sections for, calculation of effective, 23:13504(R) (GA-6742)
  - neutron cross sections for, modification of ENDF/B representations of, 24:40620 (WCAP-7365)
  - neutron cross sections from 0.001 eV to 15 MeV, compilation of, 21:29833 (NAA-SR-12271)
  - neutron cross-section data for, corrections to, 21:46722 (NAA-SR-12271(Suppl.1))
  - neutron elastic scattering at 0.01 to 15.0 MeV, evaluated angular distributions for, (E), 21:31736 (NAA-SR-11980(Vol.4))
  - neutron fission at 0.016 to 35 keV, cross section and resonance width for, (E), 23:9003
  - neutron fission at 0.1 to 1.8 MeV, energy dependence of delayed neutron yield from, (E), 25:5770
  - neutron fission at 0.45 to 3.6 MeV, cross sections and angular distributions of fragments from, (E), 24:11020
  - neutron fission at 0.5 to 1.2 MeV, angular distributions of fragments from, (E), 24:38228
  - neutron fission at 0.5 to 1.2 MeV, angular distributions of fragments from, (E), 24:40617(R) (NYO-3938-3)
  - neutron fission at 0.5 to 2 MeV, cross-section calculation using Hauser—Feshbach theory and (t,pf) data, (T), 24:40550 (WASH-1136)
  - neutron fission at 0.5 to 3 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
  - neutron fission at 14.5 MeV, cross sections and fission-fragment angular isotropy from, (E), 21:31825
  - neutron fission at 14.7 MeV, delayed-neutron abundances and half-lives for, (E), 25:5775
  - neutron fission at 20 eV to 10 MeV, cross sections and resonance parameters from, (E), 25:50750
  - neutron fission at 20 eV to 8 MeV, cross section for, (E), 25:48069 (BNL-50276)
  - neutron fission at 50 eV to 5 keV, cross section and fission width for, (E), 25:31385
  - neutron fission at 51 eV to 2.96 MeV, cross sections for, (E), 24:43316 (LA-4420)
  - neutron fission at thermal to 3.1 MeV energies, delayed neutron yield from, (E), 25:5769
  - neutron fission cross section relative to uranium-235, (E/T), 21:40420 (AEEW-R-526)
  - neutron fission cross sections at 0.001 to 10 MeV, 21:2732
  - neutron fission cross sections at 1 keV to 10 MeV, (E), 22:24873
  - neutron fission cross sections at 1 keV to 15 MeV, evaluated, 23:40030 (AHSB(S)R-169)
  - neutron fission from thermal energies to 14 MeV, calculations of total energy released during, (T), 25:43885 (ANL-7748)
  - neutron fission of, angular distribution of fragments from, (E), 24:30787
  - neutron fission of, double barrier description of angular anisotropy of, (E/T), 25:39007
  - neutron fission of, mass distribution from, (T), 25:7847 (ORNL-4513)
  - neutron reactions (n,n') with, cross sections for production of spontaneously fissioning isomers in, (E), 25:20369 (JINR-P3-5528)
  - neutron resonance parameters for, 23:26086 (IN-1218, pp 1-56)
  - neutron resonance parameters for, review, (E/T), 22:3738
  - neutron resonance parameters of, library of TRIX-1 code, 21:1078 (NAA-SR-Memo-12102)
  - neutron resonance scattering cross sections at 1.9 to 2.4 eV, (T), 21:21530
  - neutron resonance self-shielding factors at high temperature, calculations using ladder method, (T), 22:35348
  - neutron strength functions for, calculation using deformed nucleus optical model, (T), 22:27093
  - neutron strength functions for, effect of nuclear deformation on, (T), 22:18211 (NAA-SR-Memo-12538)
  - neutron total cross section at 0.0015 to 8000 eV, (E), 24:43323
  - neutron total cross section at 0.008 to 8000 eV, 22:37341 (IN-1132)
  - neutron total cross section at 12 MeV to 1 eV, (E), 25:48073 (IN-1407, pp 1-82)
  - neutron total cross section for, use in MTR of powdered sample technique for measuring thermal, 23:26086 (IN-1218, pp 1-56)
  - neutron total cross section measurement in MTR of, from 0.008 to 8000 eV, 23:26086 (IN-1218, pp 1-56)
  - neutron total cross section up to 1 eV, (E), 25:14982 (NCSAC-31)
  - neutron total cross sections and resonance parameters at 0.008 to 8000 eV, (E), 22:20578 (WASH-1079)
  - neutron total cross sections at 0.0015 to 1.0 eV, (E), 25:34105
  - nuclear deformation energies of, (T), 22:30081
  - nuclear deformation of, coefficient of, 24:11423 (CEA-N-1148, pp 3-80)
  - nuclear deformation of, coefficient of, 24:22576(T) (ANL-Trans-796)
  - nuclear moment of inertia of ground state and shape isomer of, calculation using cranking formula, (T), 24:6901
  - oxygen-16 and oxygen-18 reactions with, effects of N = 152 subshell on nobelium-isotope production by, (E), 22:18210 (JINR-D7-3548, pp 65-70)
  - oxygen-16 reactions (O-16,4n) and (O-16,5n) with, nobelium-254 and nobelium-253 production in, (E), 21:30017
  - oxygen-16 reactions (O-16,4n) at 89 MeV, cross section and mean GAMMA/sub n//GAMMA/sub f/ ratio for, (E), 22:46760(T) (ANL-Trans-636)
  - oxygen-16 reactions (O-16,4n) with, nobelium-254 production by, (E), 21:1074 (JINR-P-2839)
  - oxygen-16 reactions (O-16,5n) at 96 MeV, cross section and mean GAMMA/sub n//GAMMA/sub f/ ratio for, (E), 22:46760(T) (ANL-Trans-636)
  - oxygen-16 reactions (O-16,5n) with, nobelium-253 production by, (E), 21:1074 (JINR-P-2839)
  - oxygen-18 reactions (O-18,4n) and (O-18,5n) with, production of nobelium-255 and nobelium-256 in, (E), 21:10001 (JINR-P7-3059)
  - oxygen-18 reactions (O-18,4n) and (O-18,5n) with, production of nobelium-255 and nobelium-256 by, (E), 21:34003
  - oxygen-18 reactions (O-18,4n) at 88 MeV, cross section and mean GAMMA/sub n//GAMMA/sub f/ ratio for, (E), 22:46760(T) (ANL-Trans-636)
  - oxygen-18 reactions (O-18,4n) with, nobelium-256 production by, (E), 21:38299 (JINR-P7-3423)
  - oxygen-18 reactions (O-18,5n) at 96 MeV, cross section and mean $\gamma(n)/\gamma(f)$ ratio for, (E), 22:46760(T) (ANL-Trans-636)
  - photofission at 12 MeV, angular distribution of fragments from, (E), 24:49860(T) (LA-4369-TR)
  - photofission at 5 to 10 MeV, angular distributions and fragment yields for, 24:52561(T) (LA-4385-TR)
  - photofission at 5 to 10 MeV, fragment yields and angular distributions for, (E), 24:38288
  - photofission at 5 to 8 MeV, angular distribution of fragments from, (E), 23:37207
  - photofission at 5 to 8 MeV, fission-fragment angular distributions from, (E), 22:3688 (FEI-73)
  - photofission at 5 to 8 MeV, fission-fragment angular distribution near threshold for, (E), 22:18275
  - photofission at 5 to 8 MeV, fission-fragments angular distributions from, (E), 22:42010(T) (ANL-Trans-639)
  - photofission of, angular distribution of fragments from, (E), 24:30787
  - photon reactions (γ,n) at 8 to 13 MeV with fission isomer excitation, isomeric cross section ratio and threshold energy for, (E), 24:38209 (JINR-E15-5071)
  - photon reactions (γ,n) at 8 to 13 MeV, isomeric cross section ratio for, (E), 24:49916
  - preparation of aluminum-clad foils of, method for, 25:58180 (CONF-711002-, pp 70-6)
  - production at TRU, 25:10654(R) (ORNL-4588)
  - production at TRU, July—Dec., 1969, 24:36269(R) (ORNL-4540)
  - production of, 23:24222(R) (ORNL-4376)
  - production of spontaneously fissioning isomeric, in (n,n') reactions, cross sections for, (E), 25:20369 (JINR-P3-5528)
  - production of, by irradiation of plutonium-239, 21:15915 (DP-MS-66-69)
  - properties as reactor fuel, technology of, 21:36844
  - proton reactions (p,2n) at 8.8 to 13 MeV, cross section for delayed fission in, (E), 24:13349
  - proton reactions (p,t) at 17 MeV, analysis for collective excitations in, (E), 24:52637

  reactivity worth of, temperature coefficient of, (E), 22:5744
  separation from HFIR targets, method for, 24:5707 (ORNL-TM-2434)
  separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
  separation from spent power reactor fuel elements, economic aspects of, 24:9609
  thermal capacity at 10 to 373°K, 25:11385
  thermal capacity at 15 to 373°K, 25:29831
  thermodynamic properties of, 25:29831
  triton reactions (t,df) with, fission probability and angular correlation coefficients for, (E), 25:12579
  triton reactions (t,p) at 18 MeV, Q-value for, (E), 24:11004
  triton reactions (t,pf) at 18 MeV, fission probabilities for, (E), 25:3679
  triton reactions (t,pf) at 18 MeV, fission probabilities and fragment angular distributions for, (E), 23:42912 (LA-4198)
  triton reactions (t,pf) at 18 MeV, fission probability and fragment angular correlations for, (E), 25:7880
  triton reactions (t,pf) at 18 MeV, proton spectra, fission probabilities, and fission-fragment angular distributions from, (E/T), 25:17918
  use as alpha source for polarization of semiconductor counters, 21:306
  use as target to produce transplutonium elements, 21:4646
  plutonium-242—uranium-233, preparation and uses of double tracer of, for determination of uranium abundance relative to plutonium, 24:22576(T) (ANL-Trans-796)
  plutonium-242—uranium-233, preparation and uses of double tracer of, for determination of uranium abundance relative to plutonium, 24:11423 (CEA-N-1148, pp 3-80)
PLUTONIUM ISOTOPES Pu-243
  beta decay of, half-life for, (E), 23:1920
  beta decay of, half-life for, (E), 23:1882 (WASH-1093)
  beta decay scheme, (E), 23:37206
  beta decay, β and γ singles and coincidence spectra for, (E), 23:21373
  energy levels of, neutron single-particle, (E), 22:27087(R) (ANL-7405)
  energy levels of, superfluid-model calculations of energies and wave functions of nonrotational, (T), 25:31306 (JINR-P4-5693)
  half-life of isomeric, (E), 24:13349
  neutron capture by, cross sections for production of plutonium-244 in, 21:15915 (DP-MS-66-69)
  neutron fission cross section of, thermal, (E), 23:1882 (WASH-1093)
  neutron fission cross sections from plutonium-242 (t,pf) reactions at 18 MeV, (E), 25:3679
  neutron fission of, cross section for thermal, (E), 23:1920
  production of, by irradiation of plutonium-242 in reactor, cross sections for, 21:15915 (DP-MS-66-69)
PLUTONIUM ISOTOPES Pu-244
  abundance at solar-system formation, (T), 23:41884
  abundance in early solar system, (T), 22:4995
  abundance in early solar system, (T), 23:16595
  abundance in early solar system, (T), 23:51358
  abundance in Galaxy, (T), 25:55781
  abundance in Kapoeta howardite, (E), 25:795
  abundance in meteorites, 23:34127
  abundance in meteorites, (E/T), 25:4922
  abundance in Milky Way, (T), 24:35121
  abundance in St. Severin meteorite, (E), 24:32527
  abundance in Whitlockite, (E), 23:41768
  abundance of, terrestrial, (E), 21:10060
  alpha decay half life of, (E), 21:10060
  alpha decay of, half-life and Q-value for, (E), 23:17113
  alpha decay of, half-life for, (E), 21:46723 (ORNL-4164, pp 1-23)
  alpha decay of, partial half-lives for, (E), 23:1880 (ORNL-4306, pp 22-45)
  content in Bruderheim chondrite, (T), 22:34236
  content in meteorites, use in age estimation, 22:6462
  decay of, heating meteorites in early solar system by, (T), 23:14522 (CEA-CONF-1066)
  decay products of, in chondrites, (T), 22:36627
  decay products of, in lunar rock 12013, (E), 25:957
  decay time in chondrites, (E), 23:30203
  determination in lunar rocks from Apollo 11 by mass spectrometry, 24:20706
  evidence for extinct, in meteorites, 21:28875
  existence in early solar system, (E), 24:25822(R) (UCB-34-P-32-PR-4)
  existence in early solar system, (E/T), 22:1678
  existence in early solar system, (T), 23:12448
  fission half life of, spontaneous, (E), 21:10060
  fission in chondrites and meteorites, abundance of products from cosmic-ray, 21:22029
  fission of, average number of prompt neutrons from spontaneous, (E), 25:15037
  fission of, in solar system, dating method based on spontaneous, 21:8431 (ORO-3235-10)
  fission of, xenon mass spectrum from spontaneous, (E), 25:35594
  fission of, xenon-136 production in meteorites by, 21:14322
  fission tracks in lunar rock 12013 due to, (E), 25:949
  half-life and type of decay of, 22:42698
  half-life of, partial alpha-decay, 23:9357 (ORNL-4343, pp 91-3)
  incorporation in radiation targets, 23:8340 (ORNL-4370, pp 193-7)
  neutron capture up to 0.5 eV, cross section and resonance integral for, (E), 24:40607 (IN-1317, pp 1-63)
  neutron fission at 20 eV to 10 MeV, cross sections and resonance parameters from, (E), 25:50750
  neutron fission at 20 eV to 8 MeV, cross section for, (E), 25:48069 (BNL-50276)
  occurrence in early solar system, (T), 22:38668
  occurrence in meteorites, (T), 23:39078
  particle-track evidence for extinct, in meteorites, 22:15314
  preparation of pellets of, for HFIR targets, method for, 23:357 (ORNL-4272, pp 92-128)
  production as by-product of californium-252, 25:6474
  production in supernovae, (T), 22:23910 (ORO-2529-17)
  production of, 23:24222(R) (ORNL-4376)
  production of, by irradiation of plutonium-243 in reactor, cross sections for, 21:15915 (DP-MS-66-69)
  proton reactions (p,t) at 17 MeV, analysis for collective excitations in, (E), 24:52637
  proton reactions at 28 MeV, production of isomeric americium-246 and americium-247 by, (E), 21:33973
  radioactivity of, extinct, (E), 25:35594
  separation from other isotopes during 1968 and 1969, review of ORNL, 25:41992 (ORNL-4640)
  separation of plutonium and uranium from, by solvent extraction using TBP in dodecane, 22:25452 (CEA-N-616, pp 154-214)
  synthesis in supernova, nucleo-, 21:1997
  use for dating of meteorites, (T), 24:17407
PLUTONIUM ISOTOPES Pu-245
  beta decay of, γ spectra from, (E), 23:1880 (ORNL-4306, pp 22-45)
  beta decay scheme of, β, γ, and x-ray spectra for, (E), 22:9870
  purification of, 22:14433 (ORNL-4196, pp 66-89)
PLUTONIUM ISOTOPES Pu-246
  energy levels from beta decay of americium-246m, spins and parities of, (E), 25:31378
  purification of, 22:14433 (ORNL-4196, pp 66-89)
PLUTONIUM ISOTOPES Pu-247
  search for, using plutonium-246 neutron capture, (E), 23:1880 (ORNL-4306, pp 22-45)
PLUTONIUM LACTATES
  preparation and stability of, 21:5890
PLUTONIUM MOLYBDATES
  precipitation in acidic solutions, 24:7427
  precipitation of, containing tetravalent plutonium, in acidic solutions, 24:18949
  separation from aqueous solutions, methods for, 21:35895
  solubility in hydrochloric acid, 24:7427
PLUTONIUM NITRATES
  analysis for free acid using ammonium fluoride as complexing agent, 22:39981 (EUR-3934)
  analysis for iron by spectrophotometry, 25:216(R) (MLM-1726)
  analysis for nitrate in solutions of, method for, 21:23826 (UCID-15137)
  analysis for plutonium by determination of acidity, 22:39981 (EUR-3934)
  analysis for plutonium, by gamma spectroscopy, 25:6519 (IN-1433)
  analysis for plutonium, general analytical evaluation program for, 21:38872(R) (NBL-239)
  analysis of, 22:5 (BNWL-SA-1388, pp 10.1-14)
  analysis of aqueous solutions of, for plutonium, 22:47110(R) (BAW-3714-7)
  analysis of aqueous solutions of, for sulfates by ion exchange and titration, 25:41716 (AECL-3676)
  analysis of solutions of, by atomic absorption spectrometry, equipment for, 25:12932(P)
  analysis of solutions of, design of spectrophotometer in a glove box for, 23:14078 (CEA-CONF-1177)
  analysis of solutions of, for chromium, iron, and nickel by atomic absorption spectrophotometry, 25:26154(T) (RFP-Trans-76)
  analysis of solutions of, for free acids, titration method for, 24:16409(T) (AEC-tr-7141)
  analysis of solutions of, for plutonium, 22:47073 (CONF-680506-2)
  analysis of solutions of, for trace amounts of chromium, iron, and nickel by atomic absorption spectrophotometry without prior separation, 25:22
  analysis of solutions of, for trace amounts of chromium, iron, and nickel by atomic absorption spectrophotometry, 23:13618 (CEA-CONF-1176)
  analysis of, results of umpire qualification laboratory, 24:48244 (TID-25518)
  calcination of, in screw calciner, fluorination reactivity of plutonium dioxide produced by, 21:8399 (RL-SEP-675)
  calcination of, morphology of plutonium dioxide powders prepared from, 23:46121 (BNWL-1144, pp 5.1-40)
  complexes with amines, stability constants of, 21:32183
  complexes with citrate, containing plutonium-239, effects of DTPA on removal from rat tissues, 21:26554(R) (BNWL-370)
  complexes with triphenylarsine oxide and triphenylphosphine oxide, ir spectral studies on, 23:9401
  compounds of, with quaternary ammonium bases, solubility of, in nitric acid and water, 21:5899
  containers for shipping and storing, methods for minimizing stress cracking of polyethylene, 23:16002 (BNWL-CC-1681)
  conversion of plutonium-238-containing, to oxide, methods and safety precautions for, 25:54707 (CONF-710401-, pp 300-6)
  conversion to plutonium, processes for, 22:8032
  critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
  critical mass of solutions of, in slab geometry, (E), 23:17246(R) (BNWL-985)
  critical mass of solutions of, in slab geometry, (E), 23:33080(R) (BNWL-1053)
  critical mass of undermoderated spheres of, density effects on, (T), 21:34161
  critical parameters for hydrated full-reflected $Pu(NO_3)_4$, review of, 24:22928 (MRR-56)
  critical parameters of water-reflected spherical systems with 4.6 wt percent plutonium-240 content, (E/T), 23:28603
  critical thickness measurements on bare and reflected slabs of $Pu(NO_3)_4$, 22:12087 (BNWL-472, pp 5.1-16)
  criticality calculations for shielded containers of, 24:26743 (GA-9658(Vol.2))
  criticality measurements for solutions of, analysis of slab geometry, 23:13539(R) (BNWL-921)
  criticality of aqueous solutions of, effects of boron-containing stainless steel Raschig rings on, 25:4281
  criticality of gadolinium oxide-poisoned solutions of, measurements of, 25:39681
  criticality of high plutonium-240 solution slabs, 24:7199
  criticality of slab-shaped $Pu(NO_3)_4$, analysis of, 22:42164(R) (BNWL-775)
  criticality studies of solutions of, 22:25078 (CEA-R-3367)
  criticality studies of solutions of, 22:25078 (CEA-R-3367)
  criticality studies on slab geometries using, 21:23711(R) (BNWL-340)
  criticality studies on, reflected by water, 21:22012(R) (K-L-1780(Pt.18))
  denitration by electrodialysis, 24:11651 (CEA-N-1148, pp 99-124)
  denitration by electrodialysis, 24:22722(T) (ANL-Trans-797)
  denitration of, calcination equipment for, 21:5999 (RL-SEP-674)
  denitration of, fluidized bed process for, 25:13077(R) (ANL-7755)
  density of aqueous solutions of, 23:7497 (ARH-724(Add.))
  distribution between TBP and nitric acid, 22:51046(T) (EURFNR-499)
  distribution between TBP and nitric acid, 22:27857 (KFK-680)
  distribution in dog tissues following inhalation in aerosols, 24:25366 (BNWL-1221, pp 3.1-36)
  distribution in dog tissues following inhalation in aerosols, 24:25365 (BNWL-1221, pp 2.1-44)
  distribution in tissues of dogs following inhalation as aerosols or dusts, 25:23989 (BNWL-SA-3469)
  distribution in tissues of dogs following inhalation, 25:21836 (CONF-700816-(Vol.2), pp 697-720)
  distribution of monomeric and polymeric, in tissues of mice, methods for determining, 23:24630
  effects of plutonium-239-labeled, on ribonucleotide metabolism in liver of rabbits, 21:6424
  evaporation from aqueous solutions and solids at 400 to 1000°C, plutonium quantity in, 23:13868 (BNWL-931)
  handling of, design of glove boxes for, 25:18628
  heating of sand-bearing dried, fractional release during, 25:54546
  heating of solutions of, airborne particle release from, 22:43014 (BNWL-SA-1735)
  heating of solutions of, fractional release during, 25:54546
  hydrolysis of, 23:13730
  inhalation of plutonium-239-labeled particles of, by dogs, effects of, on survival, α and γ, 23:6339 (BNWL-714, pp 3.1-38)
  inhalation of $Pu(NO_3)_4$ by rats, kinetics of, 22:8477
  metabolism by rats, comparison with sodium plutonyltriacetate, 23:22165(T) (AEC-tr-6944, pp 122-30)
  neutron reactions in air with, contained in cylindrical vessels, 24:22924 (CEA-R-3946)
  neutron spectra measurements in, experimental apparatus and techniques for thermal, 22:53414 (GA-8805)
  particle release from thermally stressed, to 1000°C, measurement of rate of, 25:4258 (BNWL-SA-3379)
  preparation, properties, and reactions of, review of, 22:2089
  pressure of highly concentrated $Pu(NO_3)_4$, measurement of buildup in sealed containers, 23:43487 (ARH-1093)
  production and airborne release of particles of, in overheating accidents, 23:29020
  properties of, compilation of chemical and physical, 23:15831 (HW-57386)
  purification of solutions of, by ion exchange, neutron-poisoned column for, 21:5998 (RFP-782)
  radiation chemistry of, 21:25878
  reactions with oxalic acid for continuous precipitation of plutonium oxalate, 21:15913(P)
  separation from aqueous nitric acid solutions containing uranyl nitrate by solvent extraction using TBP, 24:14020
  separation from aqueous solutions, methods for, 21:35895
  separation of plutonium from, by solvent extraction using dodecane—TBP, 23:18259(R) (PNCT-AR-67)
  shipment of, design of container for, 23:17738
  shipment of, evaluation of glass ampoules for, 21:27893(R) (NBL-237)
  shipping and storage of, evaluation of polyethylene bottles for, 22:45212 (ARH-SA-18)
  shipping of, design of 3- and 10-liter containers for, 25:21380
  shipping of, vibration testing of containers for, 25:2415 (ARH-1819)
  solubility in water in presence of nitric acid, 23:7497 (ARH-724(Add.))
  solutions of, measurement of critical parameters for, 22:33063
  sorption by tissues of swine, effects of chilling and tourniquets on, 22:10677 (BNWL-480, pp 99-106)
  sorption by urania spheres in gel-addition process, 21:27824(R) (BAW-3714-2)
  storage of solutions of, at West Valley Processing Plant, 25:41891 (DOCKET-50201-74)
  storage of stabilized, in sealed ampoules, 22:22930(R) (NBL-242)
  storage of, evaluation of glass ampoules for, 21:27893(R) (NBL-237)
  uptake and translocation from puncture wounds in dogs, 25:46901(R) (COO-1787-11)
  uptake of plutonium-239-labeled, by bone marrow of rabbits, 22:10736
  uptake of plutonium-239-labeled, by surfaces of rabbit bones following intravenous injection, 21:20190

uptake through puncture wounds in dogs, 25:44840(R) (COO-1787-12)
$Cd(NO_3)_2$—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
$Cd(NO_3)_2$—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$—UO_2, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
dodecane—$Pu(NO_3)_3$—TBP—$UO_2(NO_3)_2$, distribution of uranium and plutonium in, calculation of simultaneous, 24:9472
H_3BO_3—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$—UO_2, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
HNO_3—$Pu(NO_3)_4$—TBP, phase studies on, by distribution coefficient measurements, 22:6408
$Pu(NO_3)_4$—$U(NO_3)_4$, analysis for chlorides, method for, 21:34316 (ISO-SA-39)
$Pu(NO_3)_4$—$U(NO_3)_4$, denitration and conversion to oxide, method for continuous, 25:39470(R) (ANL-7750)
$Pu(NO_3)_4$—$UO_2(NO_3)_2$, criticality of mixtures and solutions of, calculations for, 24:31646 (Y-DR-17)
$Pu(NO_3)_4$—$UO_2(NO_3)_2$, denitration and reduction to oxide, fluidized-bed process for, 25:23641(R) (ANL-7767)
$Pu(NO_3)_4$—$UO_2(NO_3)_2$, processing at West Valley Processing Plant, safety evaluations for, 25:57514 (DOCKET-50201-89)
$Pu(NO_3)_4$—$UO_2(NO_3)_2$, processing at West Valley, proposed change in technical specifications for, 25:51575 (DOCKET-50201-82)
PLUTONIUM NITRIDES
analysis for nitrogen and oxygen, inert-gas-fusion method for, 21:46964(R) (BNWL-CC-821)
analysis of, chemical, 23:1034 (BMI-1845, Sect. A)
analysis of, for nitrogen by improved Kjeldahl method, 21:14144 (AERE-R-5329)
coating of particulate, by reaction of ammonia with gaseous plutonium halide in fluidized bed, 23:36183(P)
combustion in oxygen, thermodynamics of, 23:27151
compatibility with stainless steels, 25:32791 (AERE-R-5466)
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
crystal structure of, 21:41636 (AERE-R-5441)
crystal structure of, 22:37720
decomposition of, mass-spectrometric studies of enthalpy of, 22:37713 (LA-3902)
development for liquid metal fuel breeder reactors fuels, 23:1019(R) (BMI-1845)
diffusion of nitrogen in, at 1800°C, determination using nitrogen-15 as tracer, 24:34969 (BMI-1882, Sect.A)
economics in fast breeder reactor fuel cycles, 22:22659 (BNWL-606)
enthalpy of formation of, 24:17361
enthalpy of formation of, 23:27151
enthalpy of formation of, 23:26209 (ANL-7550, pp 35-73)
enthalpy of formation of, oxygen-bomb calorimetric determination of, 24:175 (ANL-7575, pp 77-129)
entropy and heat of formation of, 24:19507
fabrication of fuel elements of, methods for, 22:8816(P)
fabrication of metal-reinforced fuel elements of, 21:11289(P)
fabrication of solid-solution pellets of, methods for, 23:8265(R) (BMI-1851)
fabrication, properties, and structure of, 22:64
formation heat of, 23:27158
formation of, calculation of heat of, 21:42957
formation of, calculation of heat of, 22:21645(R) (BMI-1826)
formation of, enthalpy of, 22:37713 (LA-3902)
hydrolysis mechanisms, 24:2979
magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
magnetic susceptibility of PuN between 4 and 1000°K, (E), 23:39572
mechanical properties at high temperatures, 24:6270
mechanical properties of, review of, 25:2785 (LA-4452)
oxidation mechanisms, 24:2979
oxidation of, 21:41636 (AERE-R-5441)
oxygen content of, effects of atmosphere on, 24:14866(R) (BNWL-658)
performance and properties of ceramic fuels of, 21:43651
phase behavior in, review on, 22:17176 (ORNL-TM-2106)
phase diagrams of, 21:45937
phase studies of, 22:2655
physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
preparation and high-temperature properties of high-density, 22:43629(R) (LA-3933)
preparation and properties, 21:32978
preparation and properties of, 21:1315 (CEA-R-2988)
preparation by carbothermic conversion of sol-gel-produced oxide microspheres, 24:30022 (CONF-700502-, pp 434-47)
preparation by one-step spray process using uranyl nitrate and sugar, 24:6252
preparation by reaction of nitrogen with plutonium hydride, 21:42957
preparation by reaction of plutonium with nitrogen, 21:41636 (AERE-R-5441)
preparation by reactions of plutonium fluorides with ammonia at 750 to 1050°C, 24:25034(P)
preparation method of, 21:42729(R) (LA-3745)
preparation methods, 21:19496(R) (LA-3607)
preparation of, 21:45993(P)
preparation of high-performance fuels of, 24:4828 (ORNL-4440, pp 29-55)
preparation of nonpyrophoric, 22:15249(P)
preparation of nonpyrophoric, method for, 21:3080(P)
preparation of plutonium-238-containing, as heat source, 23:24258
preparation of reactor-grade, 24:14866(R) (BNWL-658)
preparation of single-phase, by reactions of plutonium oxides with carbon and nitrogen at high temperatures, 24:42226(P)
preparation of spherical fuel particles of, process for, 21:19499(P)
preparation of spherical particles of, design of equipment for, 23:10263(P)
preparation of, glove box design for, 21:6774
preparation, crystal structure, and melting points of, 22:8061
preparation, properties, and phase relation of, review of, 22:2699
preparation, properties, and reactions of, review of, 22:2089
production and properties of fuels of, 25:52468 (A/CONF.49/P-454)
production of fuels of, by carbothermic reduction of sol-gel oxide products, 24:30021 (CONF-700502-, pp 423-33)
properties as fuel material, chemical research on, 22:25144
properties as high-temperature reactor fuel, 23:30169
properties for liquid metal fast breeder reactor fuels, 23:10247
properties of fuel specimens of, electric and thermal, 22:720 (BMI-1809, Sect.A)
properties of heat sources of plutonium-238-containing, data sheets for, 23:4781 (MLM-1564)
properties of isotopic fuel forms of, tabulations of, 24:7483 (MLM-1691)
properties of, data sheets on, 22:8724 (MLM-1441)
properties of, thermodynamic and transport, 25:6888 (BMI-1886, Sect. A)
radiation damage in, self, 21:19496(R) (LA-3607)
radiation effects on chemical properties of fuels of, reactor, 22:64
radiation effects on fuels of, review on, 22:8804
radiation effects on, self-, 22:6138(R) (LA-3820)
reactions with carbon at 1100°C, 23:18272(T) (ORNL-tr-3019)
reactions with carbon at 1100°C, 22:52259 (CEA-R-3536)
reactions with Incoloy, Inconel, and stainless steel cladding at high temperatures, 22:720 (BMI-1809, Sect.A)
reactions with plutonium carbide to produce plutonium carbonitride, 23:36182 (RFP-715)
stability at 1400 to 2400, determination by nitrogen pressure, 24:10138 (BMI-1872, Sect.A)
thermal conductivity of, 22:19078(R) (TID-11295(Pt.1) (5th Ed.))
thermal diffusivity of, effect of temperature on, 23:1034 (BMI-1845, Sect. A)
thermodynamic functions of, 25:16590
thermodynamic properties and vaporization measurements on, 23:3118
thermodynamic properties measurements on PuN, 22:27487(R) (LA-3880)
thermodynamic properties of, 25:8941
thermodynamic properties of, 21:25831
thermodynamic properties of, 21:42729(R) (LA-3745)
thermodynamic properties of, 21:20466
thermodynamic properties of PuN, 22:31463
thermodynamic properties of, galvanostatic potential determination of, 22:47111 (LA-3945)
thermodynamic properties of, galvanostatic technique for determining, 23:20550
thermodynamic properties of, review on, 22:17176 (ORNL-TM-2106)
thermodynamics of formation of, from pure plutonium using oxide data, method for estimating, 24:46220
vapor pressure at 1985 to 2300°K, 22:720 (BMI-1809, Sect.A)
vapor pressure of, 24:17361
vaporization at 1400 to 2400°K, 23:39016 (BMI-1862, Sect.A)
vaporization at 1658 to 1976°K, 24:19507
vaporization at 1985 to 2300°K, 21:20550(R) (BMI-1791)
vaporization characteristics of, 23:1034 (BMI-1845, Sect. A)
vaporization kinetics and thermodynamics of, 24:1061 (BMI-1868, Sect.A)
vaporization of, effects of oxygen on thermodynamics of, 21:32951(R) (BMI-1798)
vaporization of, kinetics and thermodynamics of, 22:15261(R) (BMI-1819)
vaporization of, thermodynamic calculations, 21:18308(R) (BMI-1784)
wetting by sodium, effects of temperature on, 24:1061 (BMI-1868, Sect.A)
Cr_2N—PuN, properties of, structural and thermodynamic, 25:49505 (ORNL-TM-3300, pp 53-96)
PuN—ThN, preparation, properties, and structure, 21:32978
PuN—TiN, preparation, properties, and structure, 21:32978
PuN—UC, preparation and properties of sintered pellets of, 21:28823(P)
PuN—UC, preparation, properties, and structure of, 21:1315 (CEA-R-2988)
PuN—UC—UN, preparation of, for use as reactor fuel, 21:13248(P)
PuN—UN, analysis for actinide metals, coulometric method for, 25:49508 (ORNL-TM-3416, pp 52-74)
PuN—UN, analysis for nitrogen content, Micro-Kjeldahl, 22:28777(R) (BMI-1837)
PuN—UN, analysis for nitrogen, development of Dumas method for, 25:49508 (ORNL-TM-3416, pp 52-74)
PuN—UN, analysis for nitrogen, development of methods for, 25:49505 (ORNL-TM-3300, pp 53-96)
PuN—UN, analysis for plutonium and uranium by controlled-potential coulometric and potentiometric titrations, 25:8200 (LA-4537)
PuN—UN, burnup of fast reactor fuels of, chemical state after, 24:5687
PuN—UN, burnup of, determination using neodymium-150 tracer, 24:34969 (BMI-1882, Sect.A)
PuN—UN, burnup under fast reactor conditions, testing of, 22:28777(R) (BMI-1837)
PuN—UN, carbon removal from, using flowing hydrogen, 24:14866(R) (BNWL-658)
PuN—UN, chemical analysis of, 23:1034 (BMI-1845, Sect. A)
PuN—UN, compatability with niobium—zirconium alloy, stainless steel, and vanadium cladding at 1000°C, 23:8265(R) (BMI-1851)
PuN—UN, compatibility of clad, with sodium at 650°C, 22:13044 (BNWL-473, pp 3.1-21)
PuN—UN, compatibility of sodium-bonded fuels with cladding materials, 22:6138(R) (LA-3820)
PuN—UN, compatibility of sodium-bonded, with cladding materials, 22:27487(R) (LA-3880)
PuN—UN, compatibility reactions with Hastelloy X and Inconel 625 cladding materials, 21:20550(R) (BMI-1791)
PuN—UN, compatibility reactions with sodium at 1000 to 1600°C, 21:20550(R) (BMI-1791)
PUN—UN, compatibility with cladding materials at 1000°C, 22:21645(R) (BMI-1826)
PuN—UN, compatibility with fuel cladding materials, 24:3004 (ORNL-4470, pp 76-84)
PuN—UN, compatibility with heat-resisting cladding materials at 1000 to 1400°C, 23:10247
PuN—UN, compatibility with Incoloy 800, 23:1034 (BMI-1845, Sect. A)
PuN—UN, compatibility with Incoloy 800 and Inconel 625 at high temperatures, 24:1061 (BMI-1868, Sect.A)
PuN—UN, compatibility with Incoloy 800 cladding, in sodium bonded test capsules at 1000°C, 22:28777(R) (BMI-1837)
PuN—UN, compatibility with Inconel 625, 23:1034 (BMI-1845, Sect. A)
PuN—UN, compatibility with Inconel 625 cladding in sodium bonded test capsules at 1000°C, 22:28777(R) (BMI-1837)
PuN—UN, compatibility with liquid sodium and stainless steel at high temperatures, 22:15261(R) (BMI-1819)
PuN—UN, compatibility with niobium—zirconium cladding in liquid sodium, 22:15261(R) (BMI-1819)
PuN—UN, compatibility with ORNL stainless steel cladding in sodium bonded test capsules at 1000°C, 22:28777(R) (BMI-1837)
PuN—UN, compatibility with sodium-bonded and pressure-contacted austenitic stainless steel capsules at 700 to 1000°C, relations with stoichiometry, 25:22149 (BMI-1895)
PuN—UN, compatibility with stainless steel, literature survey on, 25:29923 (ORNL-4630, pp 59-72)
PuN—UN, compatibility with Type 304 stainless steel, through sodium bond, 22:41085 (BNWL-SA-1666)
PuN—UN, compatibility with Type 304 stainless steel at 650 to 1000°C, 25:11474(R) (BNWL-842)
PuN—UN, compatibility with Type 304 stainless steel at high temperatures, 24:1061 (BMI-1868, Sect.A)
PuN—UN, compatibility with Type 316 stainless steel-cladding of sodium bonded, evaluation of, 22:50841(R) (LA-3993)
PuN—UN, compatibility with types 304 and 316 stainless steel cladding in sodium bonded test capsules, at 1000°C, 22:28777(R) (BMI-1837)
PuN—UN, compatibility with Types 304, 316, and ORNL stainless steels, 23:1034 (BMI-1845, Sect. A)
PuN—UN, compatibility with vanadium, 23:1034 (BMI-1845, Sect. A)
PuN—UN, compatibility with vanadium at high temperatures, 24:1061 (BMI-1868, Sect.A)
PuN—UN, creep at high temperatures, effects of pressure on, 25:11485 (CEA-CONF-1670)
PuN—UN, crystal lattice parameters of solid solutions of, 25:35574
PuN—UN, crystal structure of, effects of oxygen on, 21:26876(R) (LA-3686)
PuN—UN, cycle costs for fast breeder fuel, 21:19458(R) (BNWL-300)
PuN—UN, density of solid solution of, 21:42729(R) (LA-3745)
PuN—UN, development and preparation for fast breeder reactor fuel, 22:8739 (ORNL-4170, pp 97-102)
PuN—UN, development for LMFBR fuels, 23:24811 (ORNL-4390, pp 34-57)
PuN—UN, electric and thermal properties of fuel specimens of, 22:720 (BMI-1809, Sect.A)
PuN—UN, fabrication by uniaxial hot pressing at 1850°C, autoradiography of, 21:32951(R) (BMI-1798)
PuN—UN, fabrication for reactor fuels by sintering, 22:720 (BMI-1809, Sect.A)
PuN—UN, fabrication for use as reactor fuels, sintering methods for, 21:32951(R) (BMI-1798)
PuN—UN, fabrication into clad fuel pins for EBR-II testing, 24:10138 (BMI-1872, Sect.A)
PuN—UN, fabrication of advanced fuels of, development of methods for, 25:2769 (ORNL-4570, pp 62-7)
PuN—UN, fabrication of clad fuels of, for irradiation testing, 24:21409 (BMI-1878, Sect.A)
PuN—UN, fabrication of clad solid solution pellets of, for irradiation testing, 24:1061 (BMI-1868, Sect.A)
PuN—UN, fabrication of dense fuel pellets of, factors affecting, 24:36952 (ORNL-4520, pp 57-83)
PuN—UN, fabrication of EBR-2 pellet type fuel, 24:7174
PuN—UN, fabrication of fuel elements of, methods for, 22:8816(P)
PuN—UN, fabrication of fuel pellets of, development of method for, 25:49508 (ORNL-TM-3416, pp 52-74)
PuN—UN, fabrication of fuel pins of, 25:44118(R) (BMI-1905)

PuN—UN, fabrication of fuels of, by sintering, 21:20550(R) (BMI-1791)
PuN—UN, fabrication of fuels of, effects of ball-milling at 32 to 64 hr on, 22:28777(R) (BMI-1837)
PuN—UN, fabrication of irradiation specimens of, 22:720 (BMI-1809, Sect.A)
PuN—UN, fabrication of irradiation specimens of sodium-bonded, 23:8265(R) (BMI-1851)
PuN—UN, fabrication of irradiation specimens of, by hot pressing, 21:20550(R) (BMI-1791)
PuN—UN, fabrication of pellets of, by hot pressing, equipment and methods for, 24:17343 (ORNL-4480, pp 36-57)
PuN—UN, fabrication of pellets of, methods for use with synthesized powders, 24:44761 (ORNL-4560, pp 39-61)
PuN—UN, fabrication of pellets of, powder metallurgy method for, 24:34969 (BMI-1882, Sect.A)
PuN—UN, fabrication of sintered fuel pellets of, development of methods for, 25:49505 (ORNL-TM-3300, pp 53-96)
PuN—UN, fabrication of sintered fuels of, 24:3004 (ORNL-4470, pp 76-84)
PuN—UN, fabrication of stainless steel-clad fast and thermal irradiation pellets of, 23:39016 (BMI-1862, Sect.A)
PuN—UN, fabrication of stainless steel-clad irradiation pellets of, methods for, 25:6888 (BMI-1886, Sect. A)
PuN—UN, fabrication of thermal irradiation pellets of, sintering techniques for, 23:8265(R) (BMI-1851)
PuN—UN, fabrication of Type 316 stainless steel clad fuel pins of, 25:12795(R) (BMI-1893)
PuN—UN, fuel of, burnup performance for LMFBR-type reactor, 23:4240
PuN—UN, grain growth at high temperatures, 21:32951(R) (BMI-1798)
PuN—UN, internal friction and tensile properties of, at 25 to 1300°C, 24:14891(T) (ANL-Trans-803)
PuN—UN, irradiation of fuels of, burnup and temperature data from, 23:8265(R) (BMI-1851)
PuN—UN, irradiation testing in liquid sodium cooled fast reactor environment, 25:12795(R) (BMI-1893)
PuN—UN, irradiation testing of fuels of, 25:28687 (BMI-1898, Sect.A)
PuN—UN, irradiation testing of fuels of, 25:44118(R) (BMI-1905)
PuN—UN, irradiation testing of, thermal and epithermal neutron-, 21:34973 (CEA-R-3223)
PuN—UN, mechanical and physical properties of, 21:46963(R) (BNWL-CC-694)
PuN—UN, mechanical properties at high temperatures, 24:6270
PuN—UN, mechanical properties of mixed phases of, effects of porosity on, 24:51205 (CEA-CONF-1620)
PuN—UN, mechanical properties of nonstoichiometric, at 25 to 1300°C, 25:2794(T) (ORNL-tr-2388)
PuN—UN, mechanical properties of nonstoichiometric, at 25 to 1300°C, 24:36964 (CEA-R-3953)
PuN—UN, mechanical properties of, review of, 25:2785 (LA-4452)
PuN—UN, melting behavior, 22:41085 (BNWL-SA-1666)
PuN—UN, melting behavior of, effects of pressure and temperature on, 23:11236 (BNWL-919, pp 6.1-3)
PuN—UN, melting points of, effects of pressure on, 25:11474(R) (BNWL-842)
PuN—UN, microstructure of dense pellets of, effects of fabrication methods on, 24:36952 (ORNL-4520, pp 57-83)
PuN—UN, nuclear characteristics of fuels of, review of, 23:20530 (BMI-1857, Sect.A)
PuN—UN, performance capability of fuels of, for fast breeder reactors, 25:32807
PuN—UN, performance potential as fast breeder reactor fuel, 22:30123 (BNWL-SA-1550)
PuN—UN, phase studies, 21:42729(R) (LA-3745)
PuN—UN, physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
PuN—UN, porosity and volume of pellets of, effects of heating at 1900°C on, 23:39016 (BMI-1862, Sect.A)
PuN—UN, preparation and fabrication of fuel pins of, methods for, 25:8910 (ORNL-4600, pp 41-56)
PuN—UN, preparation and fabrication of, facility design for, 23:8272 (ORNL-4370, pp 85-91)
PuN—UN, preparation and properties of, review on, 23:20464
PuN—UN, preparation by carbothermic reactions of dioxides with nitrogen, 23:95 (BNWL-SA-1866)
PuN—UN, preparation by carbothermic reduction of oxides, 22:41085 (BNWL-SA-1666)
PuN—UN, preparation for metallography, methods for, 24:8199 (CONF-670533-, pp 116-30)
PuN—UN, preparation for reactor fuel, 21:6870(P)
PuN—UN, preparation of, 21:20466
PuN—UN, preparation of fuel elements of, description of carbothermic reduction process for, 22:32815
PuN—UN, preparation of fuel elements of, review of methods for, 24:2976
PuN—UN, preparation of fuels of, equipment and methods for, 25:29923 (ORNL-4630, pp 59-72)
PuN—UN, preparation of fuels of, review on, 24:44770
PuN—UN, preparation of high-density and low-density pellets of, for irradiation testing, 23:20530 (BMI-1857, Sect.A)
PuN—UN, preparation of high-purity mixed powders of, method for, 24:36952 (ORNL-4520, pp 57-83)
PuN—UN, preparation of metallographic specimens of, methods for, 24:48871 (CONF-690954-, pp 192-219)
PuN—UN, preparation of pellets of, method for, 23:48503 (ORNL-4420, pp 40-70)
PuN—UN, preparation of single-phase, by reactions of plutonium oxide—uranium oxide with carbon and nitrogen at high temperatures, 24:42226(P)
PuN—UN, preparation of sintered powders of, 23:1034 (BMI-1845, Sect. A)
PuN—UN, preparation of solid solutions of, 21:15796
PuN—UN, preparation of solid solutions of, by carbothermic reduction of mixed oxides, 21:20560 (BNWL-SA-414)
PuN—UN, preparation of, for use as reactor fuel, 21:13248(P)
PuN—UN, preparation, properties, and structure, 21:32978
PuN—UN, preparation, properties, and structure of, 21:1315 (CEA-R-2988)
PuN—UN, production by carbothermic reduction of oxides in nitrogen, 24:14866(R) (BNWL-658)
PuN—UN, properties and stability of fuels of, 25:29923 (ORNL-4630, pp 59-72)
PuN—UN, properties and structure of, effects of temperature on, 21:20560 (BNWL-SA-414)
PuN—UN, properties for liquid metal fast breeder reactor fuels, 23:10247
PuN—UN, properties for use as fast reactor fuels, 24:48889
PuN—UN, properties for use in fuels, review, 22:21650
PuN—UN, properties of clad fuels of, methods for characterization of, 25:2769 (ORNL-4570, pp 62-7)
PuN—UN, properties of fast reactor fuels of, review on, 24:10206
PuN—UN, properties of fuel pellets of, chemical and microstructural, 25:8910 (ORNL-4600, pp 41-56)
PuN—UN, properties of fuels of, methods for evaluation of, 24:44761 (ORNL-4560, pp 39-61)
PuN—UN, properties of sintered fuels of, 22:21645(R) (BMI-1826)
PuN—UN, properties of, electric and thermal, 24:36952 (ORNL-4520, pp 57-83)
PuN—UN, properties of, physical, thermal, and thermodynamic, 25:11492
PuN—UN, properties of, thermodynamic and transport, 25:6888 (BMI-1886, Sect. A)
PuN—UN, properties, radiation resistance, and uses of sodium bonded, review on, 21:22910 (LA-3646)
PuN—UN, radiation effects at 34,000 to 55,000 MWd/t burnup on, 23:1034 (BMI-1845, Sect. A)
PuN—UN, radiation effects at high burnup on stainless steel encapsulated, data summary on in-pile, 23:39016 (BMI-1862, Sect.A)
PuN—UN, radiation effects in fuel rods of, α analysis of, 21:46025(R) (BNWL-CC-761)
PuN—UN, radiation effects on capsules of, at 100,000 MWd/t burnup, 24:21409 (BMI-1878, Sect.A)
PuN—UN, radiation effects on capsules of, in-pile, 24:34969 (BMI-1882, Sect.A)
PuN—UN, radiation effects on clad fuels of, in-pile, 25:49505 (ORNL-TM-3300, pp 53-96)
PuN—UN, radiation effects on clad pellets of, in-pile, 24:1061 (BMI-1868, Sect.A)
PuN—UN, radiation effects on compatibility with stainless steel at high temperatures, in-pile, 24:6287
PuN—UN, radiation effects on encapsulated fuels of, at 18,000 to 99,000 MWd/t, 24:10138 (BMI-1872, Sect.A)
PuN—UN, radiation effects on fuel pellets of, in-pile, 25:2769 (ORNL-4570, pp 62-7)
PuN—UN, radiation effects on fuels of, at 12,000 to 16,000 MWd/t burnup, in-pile, 24:14964(T) (EURFNR-688)
PuN—UN, radiation effects on fuels of, relations of temperature and linear power with fast neutron, 25:52472 (EUR-4347)
PuN—UN, radiation effects on fuels of, review on, 22:8804
PuN—UN, radiation effects on high temperature swelling, fission gas release, and microstructure of, (E/T), 25:28688 (BMI-1898, Sect.B)
PuN—UN, radiation effects on microstructure of helium- and sodium-bonded fuels of, thermal-neutron, 21:32951(R) (BMI-1798)
PuN—UN, radiation effects on microstructure of solid solutions of, self-, 25:49505 (ORNL-TM-3300, pp 53-96)
PuN—UN, radiation effects on microstructure of, thermal neutron, 21:20550(R) (BMI-1791)
PuN—UN, radiation effects on performance of clad fuel pins of, relations with burnup, 24:10206
PuN—UN, radiation effects on performance of stainless steel-clad, in-pile, 25:11535
PuN—UN, radiation effects on performance of, in-pile, 25:32856
PuN—UN, radiation effects on performance of, in-pile, 25:47188
PuN—UN, radiation effects on properties of fuels of, review on, 24:44770
PuN—UN, radiation effects on stainless steel-clad pellets of, research summary on testing of in-pile, 25:6888 (BMI-1886, Sect. A)
PuN—UN, radiation effects on swelling of clad pellets of, in-pile, 24:6290
PuN—UN, radiation effects on swelling of fuel specimens of, 23:9262
PuN—UN, radiation effects on swelling of, model for fast neutron, 24:34969 (BMI-1882, Sect.A)
PuN—UN, radiation effects on, at sodium-cooled fast reactor temperatures, 22:21645(R) (BMI-1826)
PuN—UN, radiation effects under fast reactor operating conditions, in-pile, 22:720 (BMI-1809, Sect.A)
PuN—UN, radiation testing of clad fuels of, design of capsule for in-pile, 24:17391 (CONF-690910-, pp 637-51)
PuN—UN, radiation testing of fuel pins of, in ETR, 22:13044 (BNWL-473, pp 3.1-21)
PuN—UN, radiation testing of stainless steel-encapsulated, tables on, 23:20530 (BMI-1857, Sect.A)
PuN—UN, radioinduced swelling during 12 MTR cycles, in-pile, 22:28777(R) (BMI-1837)
PuN—UN, radioinduced swelling of fuels of, development of model for, 25:6888 (BMI-1886, Sect. A)
PuN—UN, radioinduced swelling of stainless steel-encapsulated, tables on in-pile, 23:20530 (BMI-1857, Sect.A)
PuN—UN, radioinduced swelling of, in-pile, 22:771
PuN—UN, reactions with Incoloy, Inconel, and stainless steel cladding at high temperatures, 22:720 (BMI-1809, Sect.A)
PuN—UN, reactions with Inconel 625 cladding at 527 to 1127°C, 21:32951(R) (BMI-1798)
PuN—UN, reactions with niobium-base—zirconium alloys at 1000°C, 21:447(R) (BMI-1778)
PuN—UN, reactions with stainless steel at 800 to 1000 deg C, 21:447(R) (BMI-1778)
PuN—UN, self-diffusion of nitrogen in, (E), 25:28687 (BMI-1898, Sect.A)
PuN—UN, self-diffusion of nitrogen in, (E), 25:44118(R) (BMI-1905)
PuN—UN, separation of plutonium from, 23:13839
PuN—UN, sintering behavior of carbothermic and metal-derived, 22:41085 (BNWL-SA-1666)
PuN—UN, sintering methods for pellets of, 21:46025(R) (BNWL-CC-761)
PuN—UN, sintering mixed powdered, effects of uranium nitride additions on, 22:28777(R) (BMI-1837)
PuN—UN, sintering of powdered, effects homogeneity and temperature on, 24:1061 (BMI-1868, Sect.A)
PuN—UN, sintering of, effect of ball mill lining material on, 23:8265(R) (BMI-1851)
PuN—UN, sintering pressed-powder pellets of, effects of particle size on, 23:3116
PuN—UN, sintering techniques for fabrication of fuels of, 22:15261(R) (BMI-1819)
PuN—UN, specific power limits in liquid metal cooled fast breeder reactors, 25:31569 (ORNL-TM-3388)
PuN—UN, stability in oxygen and vacuum at room temperature, 21:447(R) (BMI-1778)
PuN—UN, stability of fuels of, post-irradiation evaluation of, 23:8265(R) (BMI-1851)
PuN—UN, swelling during irradiation in liquid metal cooled fast breeder reactors, 25:31569 (ORNL-TM-3388)
PuN—UN, tensile properties of, at 25 to 1300°C, 23:51115
PuN—UN, testing of fuel elements of, preparations for TREAT, 23:39016 (BMI-1862, Sect.A)
PuN—UN, testing of fuel pins of, in TREAT, 24:21409 (BMI-1878, Sect.A)
PuN—UN, testing of stainless steel clad fuel pins of, methods for preirradiation nondestructive, 24:21409 (BMI-1878, Sect.A)
PuN—UN, thermal conductivity at 200 to 1600°C, 22:41085 (BNWL-SA-1666)
PuN—UN, thermal conductivity of, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
PuN—UN, thermal diffusivity at 300 to 1100°C, 22:28777(R) (BMI-1837)
PuN—UN, thermal diffusivity at 50 to 2000°C, 23:24988 (CEA-CONF-1248)
PuN—UN, thermal diffusivity of, effect of composition and temperature on, 23:1034 (BMI-1845, Sect. A)
PuN—UN, thermal diffusivity of, effects of stoichiometry on, 22:21645(R) (BMI-1826)
PuN—UN, thermal expansion at 20 to 1175°C, 22:28777(R) (BMI-1837)
PuN—UN, thermal performance of, analysis of fast reactor fuel, 22:32818
PuN—UN, thermal properties of, review on, 23:45989
PuN—UN, thermal stability at 1300 to 2000°C, 22:720 (BMI-1809, Sect.A)
PuN—UN, thermal stability of, at 1400 to 2000°C, 21:20550(R) (BMI-1791)
PuN—UN, thermodynamic properties and vaporization measurements on, 23:3118
PuN—UN, transport rates at 1400 to 2400°K in, 23:36171(R) (BMI-1864)
PuN—UN, vapor pressure at 2020, 2050, 2120, and 2130°K, 22:28777(R) (BMI-1837)
PuN—UN, vaporization at 1400 to 2400°K, 23:39016 (BMI-1862, Sect.A)
PuN—UN, vaporization characteristics of, 23:1034 (BMI-1845, Sect. A)
PuN—UN, vaporization kinetics and thermodynamics of, 24:1061 (BMI-1868, Sect.A)
PuN—UN, vaporization rates and thermodynamics of, 24:6267
PuN—UN, wetting by liquid sodium, 22:15261(R) (BMI-1819)
PuN—UN, wetting by liquid sodium of hot-pressed, effects of gases and temperature on, 23:39016 (BMI-1862, Sect.A)
PuN—UN, wetting by sodium, effects of temperature on, 24:1061 (BMI-1868, Sect.A)
PuN—UN-base, compatibility of helium- and sodium-bonded, with Type 304 stainless steel cladding at 650 to 1000°C, 23:41726 (BNWL-1101)
PuN—UN-base, compatibility testing with Type 304 stainless steel and niobium—1 per cent zirconium alloy at 1000°C, 21:18308(R) (BMI-1784)
PuN—UN-base, compatibility with cladding materials, thermodynamic predictions of, 21:18308(R) (BMI-1784)
PuN—UN-base, fabrication of irradiation specimens, 21:18308(R) (BMI-1784)
PuN—UN-base, sinterability of, effects of carbon on, 21:18308(R) (BMI-1784)
PuN—UN-base, thermal conductivity of carbothermically-produced, at 0 to 1600°C, 25:11474(R) (BNWL-842)
PuN—UN-base, thermal stresses in fuel cylinders of, estimates of, 21:18308(R) (BMI-1784)
PLUTONIUM OXALATES
see also Potassium Plutonium Oxalates
calcination of, morphology of plutonium dioxide powders prepared from, 23:46121 (BNWL-1144, pp 5.1-40)
complexes of, plutonium disproportionation rate and stability constants for, 21:32175
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161

- diffusion of heated powders of, in air, 22:37708 (BNWL-786)
- dissolution of suspensions of, by aluminum and iron, 22: 27845 (CEA-N-816, pp 150-276)
- fluorination by dichlorodifluoromethane, preparation of plutonium by bomb reduction following, 21:18227 (HW-30040)
- heating of, airborne particle release from, 22:43014 (BNWL-SA-1735)
- plutonium disproportionation rate and stability constants for, 21:32175
- precipitation in nitric acid solutions, method for continuous, 25:34680 (CEA-R-4109)
- precipitation in presence of fluoride ion, 21:40959(R) (MLM-1399)
- precipitation of, 22:45146 (NP-17588)
- precipitation of plutonium-238-labeled, from homogeneous solutions by hydrolysis of dimethyl oxalate, 21:19630
- precipitation of, apparatus for continuous process for, 25:26345(P)
- precipitation of, design of continuous operation apparatus for, 22:50956(P)
- precipitation of, methods for continuous, 21:30391 (CEA-R-3198)
- precipitation of, simulation tests on continuous, 25:6393 (CEA-N-1341, pp 245-315)
- precipitation of, simulation tests on continuous, 25: 26330(T) (ORNL-tr-2410, pp 14-78)
- preparation of large crystals of, method for, 21:40959(R) (MLM-1399)
- preparation of, continuous method for, 21:15913(P)
- preparation, properties, and reactions of, review of, 22: 2089
- production and airborne release of particles of, in overheating accidents, 23:29020
- separation from aqueous solutions, methods for, 21: 35895
- solubility of, in nitric acid—oxalic acid solutions, 21: 15977
- stability constants for, review on, 22:27682
- thermal decomposition of hydrated, in air, kinetics of, 24:11520
- plutonium oxalate—thorium oxalate, magnetic susceptibility of, 22:18792

PLUTONIUM OXIDES

- see also Plutonium Peroxides
- analysis for americium, spectrophotometric, 25:41721 (EUR-4352)
- analysis for fluorides, electrolytic, 22:18686 (BNWL-601)
- analysis for iron and nickel, method for, 22:25236 (CEA-N-616, pp 20-71)
- analysis for isotopes by mass spectrometry, 24:2131
- analysis for metal—oxygen ratio by thermogravimetry, 23:36217(R) (BAW-3714-13)
- analysis for metallic impurities by total burn spectrography, 24:38704 (BNWL-SA-2546)
- analysis for nitrogen, photometric, 25:6260 (CEA-N-1341, pp 3-93)
- analysis for oxygen to metal ratio, gravimetric, 23:49689 (EUR-4296)
- analysis for oxygen, titrimetric method for, 23:40535 (CEA-N-1044, pp 3-50)
- analysis for plutonium, calorimetric and wet chemical methods for, 22:30435 (RFP-1122)
- analysis of scrap of, for plutonium, coincidence-neutron counter for, 25:39432(R) (BHO-69-3)
- chemical properties of, 23:19707
- compatibility of plutonium-238-enriched, with Hastelloy N, 25:32650
- compatibility with heat-resisting alloy capsule materials at high temperatures, effects of oxygen on, 24: 44655(R) (MDC G-1675)
- content of plutonium-238-containing, in 55-gal waste disposal drums, use of proportional detectors for determining, 21:45367 (MLM-1373)
- crystal structure of, 23:19707
- defects in, equilibria studies on, 21:11208 (ANL-7155, pp 167-289)
- deposition from molten salt bath, electro-, 22:151
- determination in fissionable materials, delayed neutron response method for, 25:37570
- diffusion of heated powders of, in air, 22:37708 (BNWL-786)
- dissolution in hydrochloric acid—tin chloride and nitric acid—calcium fluoride systems, 21:38930 (RFP-922)
- distribution of plutonium-239-labeled, in subcellular organelles of rats, electron microscope autoradiographic measurements of, 23:4889
- effects of electron configuration of ionized, on potentials of tetravalent plutonium and hexavalent or pentavalent plutonium, 23:15836
- effects on retention of plutonium-239 in lungs of beagles, 22:10825 (BNWL-480, pp 55-83)
- effects on ultrastructure of phagocytes 6 hr to 7 days following uptake from rat peritoneum, α and γ, 23: 45873
- enthalpy of oxygen incorporation in PuO/sub 2-x/, 25: 34606
- excretion of, by miniature swine, 21:6399 (BNWL-SA-955)
- fabrication of standard of, for use in chemical analysis, 22:25236 (CEA-N-616, pp 20-71)
- gamma emission from, computer program PUSHLD for surface dose rates for, 24:15376 (BNWL-1259)
- handling of, radiation protection of personnel in, 22: 10321 (EURAEC-1938)
- heating of, airborne particle release from, 22:43014 (BNWL-SA-1735)
- ingestion by animals, effects of particle size and animal age on hazards from, 21:28586 (BNWL-SA-1144)
- inhalation by man, dosimetry of, 21:39415
- inhalation of, by rats, design of device for studies on, 21:10856 (CEA-R-3086)
- inhalation of, method for bioassay of aerodynamic particle size following, 23:31598 (UCRL-50007-68-3, pp 17-20)
- machining behavior, 22:41028
- magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
- melting of fine powders of, method for, 21:43671(P)
- metallurgical properties for fuel microspheres, 21:35777 (MLM-1387(Suppl.)(Del.1))
- neutron emission from, multiwire boron trifluoride ionization detector for measurement of, 24:11762 (BARC-440)
- neutron slowing down in, inelastic, (T), 22:35211
- neutron yields from, compared with plutonium carbides, 25:39562(R) (HEDL-TME-71-55)
- oxygen potentials of nonstoichiometric, galvanic cells and gas-equilibration techniques for measuring, 22:4116
- oxygen potentials of nonstoichiometric, modified galvanic-cell and gas-equilibration techniques for measuring, 21:35957
- phase diagram of, comparison with rare earth oxides, 22: 4888 (EUR-3563)
- phase diagrams of, 21:45937
- phase studies of, 22:17168 (STI/DOC-10/79)
- phase studies of, 22:43663
- phase studies of, 22:2655
- phase studies of, metallographic and x-ray, 22:4889 (EUR-3564)
- phase studies of, on plutonium, 21:9072
- physical properties of reactor fuels of, 22:17113 (JAERI-1144)
- precipitation in MSR, studies on conditions for, 25: 34566
- preparation by sol-gel method, 24:20792(R) (ORNL-4447)
- preparation from fluorides, 22:25470(T) (ANL-Trans-590)
- preparation of fuels of, by sol-gel process, 24:14876(P)
- preparation of low-nitrate sols of, method for, 21: 26884(P)
- preparation of microspheres of, SNAM process for, 24: 30010 (CONF-700502-, pp 191-209)
- preparation of microspheres of, use of ion exchange resins in, 23:22632(P)
- preparation of radiation targets of, method for, 24:11656 (CEA-N-1148, pp 335-68)
- preparation of radiation targets of, method for, 24: 22725(T) (ANL-Trans-801)
- preparation of spherical particles of, design of equipment for, 23:10263(P)
- preparation of stable low nitrate sols of, method for, 22: 52244(P)
- preparation, properties, and phase relation of, review of, 22:2699
- preparation, properties, and reactions of, review of, 22: 2089
- production and airborne release of particles of, in overheating accidents, 23:29020
- production by oxidation of plutonium at 250 to 420°C, kinetics of, 23:22479
- production in plutonium reactions with seawater, 21: 1527 (USNRDL-TR-1050)
- production of spherical particles of, method for, 24: 1076(P)
- production of spherical particles of, method for, 24: 1073(P)
- radiation sources of, calculation of surface gamma dose rates from, 24:31629
- reactions with carbon, thermodynamics of, 21:18308(R) (BMI-1784)
- reactions with oxygen in hot-stage electron microscope, 22:36550
- reactivity worth variations in fuels of, effects of cladding and fabrication methods on, 24:48874(R) (NP-18353)
- reduction by calcium to produce plutonium metal, 22: 31336 (UCRL-50403)
- reduction in molten fluoride mixture by aluminum, 22: 42808 (CEA-R-3435)
- reduction to metal using calcium, 24:17222 (ARH-1198)
- removal from lungs following inhalation, effectiveness of saline lavage for, 25:42368(T) (LF-tr-53)
- retention of particles of, in lungs of baboons, effects of washing on, 25:18895
- separation from aqueous solutions, methods for, 21: 35895
- shipping container for, design of, 23:21930
- size measurement of aerosols of, using cascade impactor, 22:25537
- surface contamination levels for environmental plutonium-239, physical and biological aspects of, 22: 51562 (BNWL-SA-1510)
- thermal conductivity measurements on, 24:8187
- thermodynamic properties of, 21:8236 (LA-DC-8266)
- thermodynamic properties of, 21:25831
- thermodynamic properties of nonstoichiometric, 22:4002
- thermodynamic properties of, review of, 22:17168 (STI/DOC-10/79)
- transport in environment following release during accidents or fires, calculations of effects of particle size on dynamics of, 25:37790 (RFP-1543)
- uptake and clearance in lungs of rats following inhalation as dusts, role of macrophages in, 24:48384
- uptake of plutonium-239-labeled, in relation to phagocytic function, 24:11925
- vapor pressure of, 22:43663
- volatilization of, mass spectrometric studies on, 24: 43990 (ANL-7650, pp 23-34)
- volatilization of, mass spectrometric studies on, 24: 50439(R) (ANL-7675)
- water removal from granular, method for, 24:8181(P)
- curium oxides—plutonium oxides, phase studies of dioxides, intermediate oxides, and sesquioxides of, 25: 11521
- plutonium oxides—uranium oxides, development and performance of fuels of, for liquid metal fast breeder reactors, 25:19275
- $PuO_{1.5}$—PuO_2—$UO_{2.66}$—U_3O_8, phase studies at room temperature to 800°C, 21:41670

PLUTONIUM OXIDES PuO

- crystal structure and thermodynamics of, 22:23007 (UJV-1832)
- electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
- phase studies by metallography and x-ray diffraction, 22: 31509
- preparation by reduction of plutonium dioxide by hydrogen, 22:31509
- properties of, review on, 23:41534
- thermodynamic properties of, mass-spectrometric studies of, 22:36543 (ANL-7450, pp 39-74)
- vapor pressure of, at high temperatures, effects of oxygen content on, 24:6256(R) (GEAP-12027)
- vaporization of, 22:23007 (UJV-1832)
- C—N—PuO—UO, stability of, 21:15796
- C—PuO—UO, stability of, 21:15796
- PuO—UO, preparation and properties of, 21:11279(R) (UNC-5117)

PLUTONIUM OXIDES PuO_2

- ablation and thermal response of microspheres of plutonium-238-enriched, 23:4783 (SC-RR-68-547)
- ablation of fuel spheres of, at reentry, (T), 21:34398 (SC-CR-67-2573)
- ablation of microspheres of, testing in hyperthermal arc tunnels, 22:42977(R) (SC-PR-68-451)
- aerosol behavior under fast reactor accident conditions, (E/T), 24:4072 (BNL-14070)
- aerosols of, behavior during LMFBR accidents of, 23: 52374 (AI-AEC-Memo-12761(Rev.1))
- aging experiments on pellets of, flowsheets for, 25: 57658(R) (ORNL-4723)
- alpha activity and range in plutonium-238-enriched microspheres of, measurement of effective, (E), 23: 26457 (MLM-1642)
- alpha activity and range in plutonium-238-enriched microspheres of, measurement of effective, 24:36524
- alpha reactions (α,n) in, Hauser—Feshbach calculation of neutron spectra for, (T), 25:59708 (BNWL-B-109)
- alpha spectra from microspheres of 238, 22:42977(R) (SC-PR-68-451)
- alpha spectra of plutonium-238-enriched microspheres of, calculations for predicting, 23:43466 (MLM-1655)
- americium-241 production from high exposure, effects of time on surface, 23:9237(R) (BNWL-907)
- analysis for calcium, spectrochemical, 23:18259(R) (PNCT-AR-67)
- analysis for cerium-144, cesium-137, niobium-95, ruthenium-103, ruthenium-106, and zirconium-95 by gamma spectroscopy, 23:16 (PG-Report-845)
- analysis for cobalt by spectrography, properties of lithium fluoride—silver chloride as carrier in, 23:26156 (ARH-1079)
- analysis for impurities by atomic absorption spectrophotometry, 24:36345 (CEA-R-3973)
- analysis for impurities by emission spectrography, 23: 18259(R) (PNCT-AR-67)
- analysis for impurities by emission spectrography using carrier distillation techniques, 23:31276 (ARH-SA-32)
- analysis for impurities in microspheres of, 22:21645(R) (BMI-1826)
- analysis for impurities, cathode region method for direct spectrochemical, 24:38731
- analysis for impurities, emission-spectrochemical, 21: 32080 (AAEC/TM-376)
- analysis for oxygen by electric conductivity measurements, 23:6070
- analysis for oxygen by inert-gas fusion—gravimetric method, 23:13634
- analysis for plutonium by controlled-potential coulometry, 22:40041
- analysis for plutonium by coulometric, potentiometric titration, and volumetric methods, 24:46167 (BARC-464)
- analysis for plutonium, calorimetric, 25:48434 (CONF-710617-22)
- analysis for plutonium-236 in presence of plutonium-238, direct and indirect radiometric methods for, 25:51402
- analysis for ppM quantities of plutonium-236 by alpha counting or measurement of daughter activities, 23: 2223
- analysis of fuel and source materials of, evaluation of chemical methods for, 25:26153 (LA-4622)
- analysis of irradiated, for metallic inclusions by electron microprobe methods, 24:41172 (AERE-R-6310)
- analysis of irradiated, for transcurium elements, 22: 14419 (DP-1137)
- analysis of particulate masses collected on impactors from simulated reentry tests of SNAP fuel, 23:2091 (SC-CR-68-3673)
- analysis of plutonium-238-enriched heat sources of, for impurities using gamma spectroscopy, (E), 22:18704
- analysis of plutonium-238-enriched, for impurities by gamma spectroscopy, 22:8 (DPSPU-66-30-12)
- analysis of plutonium-238-enriched, for plutonium-236, 22:39985 (MLM-1486)
- analysis of pyrocarbon—silicon carbide-coated, by isotope dilution mass spectrometry and gamma spectrometry, 25:18356 (KR-140)
- analysis of solutions of, for plutonium, comparison of coulometric, potentiometric, and volumetric methods for, 24:50337 (CONF-690916-(Vol.2), pp 244-51)
- analysis of, for oxygen by inert gas fusion—gas chromatography, 21:15832 (DP-MS-66-41)
- analysis of, results of umpire qualification laboratory, 24: 48245 (TID-25519)
- analysis using α-reaction γ spectra, (E), 22:18704
- behavior during reentry of small spheres of, dynamic, (T) , 21:32313 (SC-CR-67-2636)
- behavior during reentry of small spheres of, dynamic, 21:32312 (SC-CR-67-2635)
- behavior of microspheres of plutonium-238-enriched, review of reentry, 23:35421
- behavior of reentering microspheres of, analysis of aerothermodynamic, 23:9655 (WAI-TR-68.2)

burnup effects on oxygen to metal ratio of fuels of, (E/T) , 24:22509 (AERE-R-6264)
burnup in BR-5 research reactor fuel elements, analysis of efficiency of, 22:27470(T) (JPRS-45100)
chemical composition of as-received powders of, relations with fuel performance, 24:23506(R) (WARD-4135-4)
coating microspheres of, feasibility of pyrocarbon, 22:10434 (LA-3814)
coating of fuel particles of, evaluation of methods for molybdenum, 24:46768 (BMI-1869)
coating of microspheres of, with duplex layers of molybdenum and thorium dioxide, method for, 24:46767(R) (BMI-1860)
coating of microspheres of, with pyrolytic carbon, 24:14874 (LA-4298)
coating with graphite, 22:724 (BMI-1809, Sect.C)
coating with pyrolytic carbon, 22:724 (BMI-1809, Sect.C)
compatibility of plutonium-238-enriched, with molybdenum, equipment and method for testing, 23:24842(R) (DAC-60777)
compatibility of plutonium-238-enriched, with platinum and platinum—rhodium alloys at 1200°C, 25:2663 (MLM-1684)
compatibility of plutonium-238-enriched, with platinum, platinum—rhodium alloys, and refractory metals and alloys to 1900°C, 24:32498
compatibility of plutonium-238-enriched, with refractory metal fuel capsules, effects of stoichiometry on, 24:44787(R) (MDC G-1665)
compatibility of plutonium-238-enriched, wth rhenium, rhenium—tungsten alloy, and tungsten capsules at 2000°C, 24:44780(R) (DAC-63372)
compatibility of substoichiometric, with rhenium and tungsten at 2000°C, 24:46431(R) (MDC G-1700)
compatibility of substoichiometric, with tantalum—tungsten alloy capsules at 1200°C, 25:44544(R) (MLM-1817)
compatibility of, with chromium—nickel alloys, 21:20466
compatibility with candidate fuel matrix materials at 1500 to 2500°C, 24:46766(R) (BMI-1849)
compatibility with heat resisting alloy capsule materials at 1800°C, 24:36505(R) (MDC G-1689)
compatibility with iridium, platinum, and thorium oxide at 1250 to 1500°C, 24:46767(R) (BMI-1860)
compatibility with platinum fuel capsules at 1000°C, 25:44544(R) (MLM-1817)
compatibility with refractory alloy container materials at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
compatibility with refractory alloys and metals at 1000 to 2500°C, data tabulations on, 25:6854 (MLM-1706)
compatibility with refractory metal and alloy fuel capsules at 1800 to 2000°C, 25:51717(R) (MDC G-3124)
compatibility with refractory metal cermet fuel matrix materials at 1500 to 2500°C, 24:46765(R) (BMI-1831)
compatibility with refractory metal fuel capsule materials at high temperatures, 25:24538 (MDC G-2034)
compatibility with refractory metal fuel capsules at 1500 to 2000°C, 25:24614(R) (MDC G-2033)
compatibility with refractory metals at 1800 to 2000°C, 25:22135(R) (MDC G-2026)
compatibility with refractory oxide ceramic fuel matrix materials at 1500 to 2500°C, 24:46765(R) (BMI-1831)
compatibility with rhenium and tungsten at 1800 to 2000°C, effects of impurities on, 24:46431(R) (MDC G-1700)
compatibility with tantalum—tungsten fuel capsules, effects of yttrium powder additions on, 25:44544(R) (MLM-1817)
compatibility with TZM alloy at high temperatures, 24:25210(R) (LA-4068)
compatibility with TZM at 1800°C, 24:31592(R) (LA-4419)
contamination levels for environmental, following nuclear accidents, 23:20202 (CONF-680507-, pp 460-70)
content of air, recommended decrease in maximum permissible, 25:42508
corrosion by seawater of encapsulated SNAP-19 heat sources of, from aborted Nimbus-B, 23:50038 (MLM-1659)
critical mass and radius for cylinders of, effects of aluminum oxide on, 21:25937(R) (K-L-1780(Pt.19))
critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
critical mass of undermoderated spheres of, density effects on, (T), 21:34161
critical masses and sizes of unmoderated plutonium-240 enriched mixtures of, in slab, spherical, cylindrical, and cubic geometries, (E/T), 25:39321
critical parameters for hydrated full-reflected, review of, 24:22928 (MRR-56)
criticality calculations for, 22:45143 (K-1734)
criticality calculations for assemblies of, in the unmoderated range, 21:38760
criticality in processing equipment, analysis of configuration parameters for, 22:50808 (RFP-1206)
criticality measurements for, effects of configuration on, (E), 24:33452
criticality of bare and plexiglas separated slabs of, effects of composition and configuration on, 23:17188(R) (GA-8107)
criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
criticality of plutonium-238-containing, for use as Brayton cycle heat source, 22:51179 (MLM-1532)
criticality of spheres of, effects of concentration and configuration on, 23:19530 (Y-DR-7)
criticality, inventory, and safeguards system for, design of computerized, 25:4295
crystal lattice constants of, effects of annealing on, 24:31592(R) (LA-4419)
crystal lattice parameter annealing in self-irradiated, activation energy of first stage of, 25:13784
crystal lattice parameters of plasma-formed plutonium-238 enriched microspheres of, at 14 to 1505°C, 24:21434 (MLM-1690)
crystal structure defects in, 21:32996
crystal structure of, 22:23007 (UJV-1832)
crystal structure of hydrous, 24:20748(R) (ORO-3955-1)
crystal structure of monocrystalline, 24:51195
crystal structure of, effects of temperature on, 21:34962 (RFP-927)
crystal structure of, temperature coefficients and interionic distances in, 25:20995
crystallinity and surface area measurements for, (E), 25:45579
damage to plutonium-238-enriched microspheres of, on impact with concrete, granite, and sand targets, 23:21892 (MLM-1626)
decladding of stainless steel-clad, thermal method for, 23:21802
defect equilibria in substoichiometric, 24:25724 (ANL-7417, pp 71-7)
densification by high-energy pneumatic impaction, 23:36191
density of spheroids of, determination by mercury displacement method, 22:17098 (AEEW-M-797)
density of, at 750°C, 21:9233
density of, long-term studies of helium-induced swelling on, 25:39650(R) (LA-4697)
determination in fuel elements, development of instrumentation and material balance methods for, 25:4297
determination in plutonium dioxide—uranium dioxide fuels by gamma spectroscopy, 24:23540(T) (JAPFNR-6)
determination in radioactive wastes, performance radiometric method for, 24:424
determination of plutonium-238-labeled, in vapor phase over molten salts in MSR by electron microscopy, 23:9355 (ORNL-4343, pp 59-61)
development of ceramic fuels of, review of, 25:18245 (WHAN-SA-70)
diffusion of helium from microspheres of, model for, 24:25211(R) (LA-4089)
diffusion of helium from plasma-melted plutonium-238-enriched microspheres of, model for, 24:21422 (ORNL-4507)
diffusion of helium from plasma-torch fired, coefficients of, 23:41606 (SC-DC-69-1954)
diffusion of helium from plutonium-238-enriched microspheres during annealing, rates of, 24:14899 (SC-DC-69-1892-B)
diffusion of helium from, at high temperatures, 24:36507(R) (ORNL-4567)
diffusion of helium from, effects of temperature and time on, 24:31592(R) (LA-4419)
diffusion of helium in microspheres of plutonium-238-incorporated fuels of, effects of temperature on, 24:4840 (SC-RR-69-662)
diffusion of helium in microspheres of plutonium-238-containing, effects of annealing on, 23:39042 (SC-DC-69-1892)
diffusion of helium in pellets of, long-term studies on, 25:39650(R) (LA-4697)
diffusion of helium in plutonium-238-enriched sol-gel microspheres of, at 25 to 2000°C, anomalous, 25:11501
diffusion of helium in, at 900°C, 25:32126(R) (LA-4647)
diffusion of oxygen in, at 1200 to 1600°C, 24:19496(R) (GEAP-12047)
diffusion of oxygen in, at 1200 to 1600°C, 24:19495(R) (GEAP-12032)
dissolution by sodium peroxide—sodium hydroxide fusion, 22:40041
dissolution in hydrochloric acid at high temperature and pressure, 24:9266 (AERE-R-6217)
dissolution in hydrofluoric acid—nitric acid solution, 21:40959(R) (MLM-1399)
dissolution in nitric acid, 23:19826 (JEN-201-DMa/I-22)
dissolution in nitric acid solutions, effects of sintering conditions on, 22:42810(T) (EURFNR-471)
dissolution in nitric acid solutions, effects of sintering conditions on, 22:25460 (KFK-673)
dissolution in seawater, effects of marine encrustation on, 23:476 (USNRDL-TR-68-74)
dissolution of, 22:33208(R) (MLM-1456)
dissolution of microspheres of, efficiency of leaching agents for, 22:21645(R) (BMI-1826)
dissolution of plutonium-238-labeled, in hydrofluoric acid—nitric acid—sulfuric acid solutions above 1500°C, 23:9378
dissolution of refractory, by fusion with sodium bisulfate, 23:37873(R) (NBL-247)
dissolution of, bibliography and data compilation on, 22:37714 (MLM-1513)
dissolution of, factors affecting acid, 22:33529
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
dissolution rates of microspheres of, in seawater, 24:25211(R) (LA-4089)
distribution in dog tissues following inhalation in aerosols, 24:25367 (BNWL-1221, pp 4.1-26)
distribution in dog tissues following inhalation in aerosols, 24:25366 (BNWL-1221, pp 3.1-36)
distribution in dog tissues following inhalation in aerosols, 24:25365 (BNWL-1221, pp 2.1-44)
distribution in fuel pellets, design of tungsten-tipped probe to determine, 21:38755
distribution in mixed-oxide fuel elements, variation of radial, (E), 22:30343(R) (EURAEC-1992)
distribution in plutonium dioxide—uranium dioxide fuel pellets, scanning electron microprobe evaluation of, 25:4876
distribution in tissues of dogs following inhalation as aerosols or dusts, 25:23989 (BNWL-SA-3469)
distribution of particles of plutonium-239-labeled, in lungs of rats following inhalation, 23:22280 (BNWL-SA-2282)
distribution of particles of, in tissues of dogs following inhalation, development of dynamic model for determination of, 25:21546 (CONF-700816-(Vol.2), pp 721-37)
distribution of particles of, in tissues of dogs following inhalation, 25:21836 (CONF-700816-(Vol.2), pp 697-720)
distribution of plutonium-238-labeled particles of, in tissues of dogs following inhalation, 23:6340 (BNWL-714, pp 4.1-24)
distribution of plutonium-239 labeled, in lungs of dogs and rats, measurement of particle size for, 23:12035
Doppler reactivity effects in critical assemblies, (E), 25:6110
effects of content of, on thermal conductivity of plutonium dioxide—uranium dioxide solid solutions at 100 to 1200°C, 25:16592
effects of dispersed, in molybdenum, niobium, tantalum, and vanadium, review of, 21:39674
effects of inhaled aerosols of, in dogs, 21:14536 (BNWL-280, pp 45-7)
effects of inhaled aerosols of, on taurine excretion by dogs, 21:14535 (BNWL-280, pp 47-9)
effects of particle size on fast reactor power transients, 25:57107
effects on gastrointestinal tract of rats, pathological, 22:49331
effects on lymph nodes of beagle dogs following contamination of wounds, neoplastic α, 24:41976
effects on reduction of uranium oxides in powder mixtures, 25:29947
efficiency of fuels of, economic aspects of, 22:5914 (AECL-2944)
electric conductivity of, effects of oxygen content at 1045 to 1505°C on, 21:32996
electric conductivity of, effects of temperature on, 23:6070
electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
electron diffraction of aged colloidal solutions of, 23:357 (ORNL-4272, pp 92-128)
enthalpy at 1500 to 2715°K, 25:11491
enthalpy of formation of, 23:27151
enthalpy of formation of, oxygen-bomb calorimetric determination of, 24:175 (ANL-7575, pp 77-129)
enthalpy of, measurement at 192 to 1400°K using isothermal drop calorimeter, 23:6744
etching procedure for pneumatically impacted, 21:46025(R) (BNWL-CC-761)
evaporation at 2090°K, kinetics of, 24:25768 (ANL-7417, pp 25-36)
evaporation of substoichiometric, at high temperatures, 22:31477
evaporation of substoichiometric, in oxygen-to-plutonium ratio of 1.51 to 2.00, 24:8193
fabrication and properties of fuel particles of, 21:20550(R) (BMI-1791)
fabrication and properties of pyrolytic-carbon-coated fuel particles of, 21:32951(R) (BMI-1798)
fabrication of aluminum-clad target elements for high-flux isotope reactor, 21:16634 (ORNL-TM-1712)
fabrication of clad fuel elements of incorporating metal powder, 22:49814(P)
fabrication of fuel elements of, description of metal-clad graphite-centered, 23:11359(P)
fabrication of fuel elements of, methods for, 22:8816(P)
fabrication of fuel elements of, process facility description and cost estimates for, 22:18581 (BNWL-273(Vol.2))
fabrication of fuels of, data compilation on methods for, 25:32774 (GEAP-13582)
fabrication of HFIR targets of, incorporating plutonium-242, 25:2792 (ORNL-4570, pp 201-4)
fabrication of metal-reinforced fuel elements of, 21:11289(P)
fabrication of pellet-type fuel for thermal reactor, 23:2069 (NP-17579, pp I.1-60)
fabrication of plutonium-238-enriched heat sources of, for cardiac pacemaker, 23:35427
fabrication of pyrolytic carbon coated, 22:724 (BMI-1809, Sect.C)
fabrication of pyrolytic-carbon-coated spheres of, effects of temperature on, 22:42200(R) (ORNL-4200)
fabrication of sintered fuels of, containing metal borides, 24:8079(P)
fabrication of spherical fuel particles of, for coating, 21:18308(R) (BMI-1784)
fabrication of vibratorily compacted fuel rods of, for Doppler coefficient measurements, 24:19394 (ANL-7647)
fabrication of, description of oxalate process and air oxidation of metal, 23:2032(R) (NUMEC-3524-55)
failure of uncoated microspheres of plutonium-238-containing, in helium at 1300°F and 2500 psi pressure, 22:47304 (SC-CR-68-3640)
fission gas release from irradiated pyrolytic-carbon-coated fuel particles of, as function of burnup and temperature, 21:32951(R) (BMI-1798)
fluorination at 28 to 300°C, 22:48900 (RFP-1052)
fluorination by bromine pentafluoride, 22:6365 (ANL-7362)
fluorination by chlorine trifluoride or fluorine, 22:30647 (EURAEC-1694)
fluorination by dichlorodifluoromethane, preparation of plutonium by bomb reduction following, 21:18227 (HW-30040)
fluorination for plutonium-241 preparation, method for, 21:43565 (RFP-1007)
fluorination of fuel pellets of, results of, 22:9988(R) (ANL-7391)
fluorination of, conditions for, 23:19818 (CONF-680610-, pp 18-41)
fluorination of, effects of sulfate ions on, 24:11653 (CEA-N-1148, pp 183-271)
fluorination of, effects of sulfate ions on, 24:22723(T) (ANL-Trans-799)

fluorination of, fluid-bed studies of, 21:36080(R) (EURAEC-1868)
fluorination with chlorine trifluoride, 22:33527
fluorination with fluorine and interhalogens, 22:8186
fuel cycle management for, economics of, 25:23285(R) (NEDC-12152)
gamma dose rate buildup on high exposure samples of, 23:15738(R) (BNWL-963)
gamma dose rates and spectra from, attenuation by thin stainless steel absorbers, 23:3534 (BNWL-871)
gamma dose rates from, computer program for calculation of, 22:31060 (MLM-1460)
gamma dose rates of, surface, 21:19893 (BNWL-339)
gamma emission spectra from heat sources of, 25:4245
gamma flux from plutonium-238, 23:32883 (NUS-TM-S-49)
gamma spectra of fuels of, 25:27305 (N-70-35897)
gas generation and swelling in reactor fuel of, mechanisms of, 25:52474(T) (JPRS-53800, pp 196-204)
grain growth in thin films of, during annealing in electron microscope, (E), 23:1528
grain shielding factor calculations for particles in graphite matrix, 25:53494
grain structure of, electron microscope study of, 22:8770
handling irradiated fuels of, in hot cells, radiological safety of, 24:31652
handling outside of gloveboxes, protective coating of naphthalene for, 23:20231
heat sources of, impact testing of encapsulated, 23:45480 (SC-DR-69-326)
heat transfer of reentering microspheres of, effects of melting on, 23:9655 (WAI-TR-68.2)
helium diffusion in microspheres of plutonium-238-enriched, at 800 to 1400°C at steady state and at 1000 to 2000°C with rapid heating, 24:5813
helium release from plutonium-238-enriched microspheres of, during annealing, calculations of, 25:11499
helium release from plutonium-238-enriched microspheres of, effects of grain size and thermal history on measurement of, 25:11500
homogeneity in mixed-oxide thermal recycle fuels of, methods for measurement of, 25:4874
homogeneity of vibratory-compacted, γ attenuation method for inspection of, 22:14739
hydrofluorination of, 21:35955
hydrofluorination of, 21:14805
hygroscopicity of, 22:12963 (RFP-1056)
impact testing encapsulated microspheres of, high-velocity, 22:42995 (MLM-1499)
inhalation by man, recommended decrease in maximum permissible lung burden following, 25:42508
irradiation of plutonium-242-enriched, to produce transuranium elements, 21:45203 (ORNL-4145, pp 130-53)
isotopic exchange of oxygen with plutonium-238-enriched, 22:33367
isotopic heat sources of, neutron spectra from, 22:8304
lattice dynamics from infrared spectra, 25:25238
magnetic susceptibility at 4 to 1000°K, (E), 22:41665
magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
magnetic susceptibility of, (E), 23:23239 (CEA-R-3722)
melting by passing electric current through pellets of, method and apparatus for, 22:744(P)
melting equipment for, design of electric, 22:38615(P)
melting of, method for, 23:1033(P)
melting of, method for, 23:35112(P)
melting point of, 22:43648(R) (GEAP-5634)
melting tank for, design of electric nonconducting ceramic lined, 24:29420(P)
melting temperature of, effect of oxygen/plutonium ratio on, 23:9262
metabolism of plutonium-239-labeled, in dogs, 25:26929
metabolism of, following subcutaneous injection in swine, 21:14561 (BNWL-280, pp 83-5)
metabolism of, in dogs following inhalation, 21:14632
metal/oxygen ratio in hypostoichiometric, weight change method for determination of, 25:22179
metallography of plasma-fired microspheres of, 22:8805 (CONF-670533-8)
metallography of plutonium-239 incorporating, design of glovebox metallograph for, 23:30092
microstructure of microspheres of, prepared by sol-gel process, 24:46767(R) (BMI-1860)
microstructure of plutonium-238-enriched pellets of, 24:25211(R) (LA-4089)
molar enthalpy changes for various temperature drops in fuel elements of, 22:30118 (ANL-7438)
morphology of powdered, prepared by calcination of plutonium nitrate and oxalate, 23:46121 (BNWL-1144, pp 5.1-40)
neutron counting of plutonium-238-enriched and oxygen-18-depleted, 21:30485
neutron dose rate from, evaluation of, 22:31060 (MLM-1460)
neutron emission from plutonium-238-labeled, produced from oxygen reduced in masses 17 and 18, 21:5976
neutron emission spectra from heat sources of, 25:4244
neutron flux from plutonium-238, 23:32883 (NUS-TM-S-49)
neutron generation in plutonium-238-enriched, effects of oxygen-16 content on, 22:27629 (MLM-1462)
neutron multiplication measurements in planar arrays of, 21:30257 (MLM-1395)
neutron spectra and fluence to dose conversion factors for, (E), 24:30665 (BNWL-1262)
oxygen-16 exchange between oxygen and, at 700 and 850°C, 22:27629 (MLM-1462)
oxygen-16 exchange between water and plutonium-238- or plutonium-239-labeled, 23:19710
oxygen-to-metal ratio determination in, at high temperature, 21:40694 (ANL-7349, pp 92-109)
particle morphology and size of powdered, determination by conventional methods and electron microscopy, 24:44778 (BNWL-1441)
particle release from thermally stressed, to 1000°C, measurement of rate of, 25:4258 (BNWL-SA-3379)
particle size measurement of, from SNAP-9A reentry burnup, 21:30639(R) (TLW-3547-3)
particle size measurement of, from SNAP-9A reentry burnup, 21:30637(R) (TLW-3547-1)
particle size measurement of, from SNAP-9A reentry burnup, 21:30638(R) (TLW-3547-2)
particle size measurement of, from SNAP-9A reentry burnup, 21:30640(R) (TLW-3547-4)
particle size of plutonium-238-containing SNAP fuels of, under simulated atmospheric reentry conditions, 23:16041 (SC-CR-68-3470)
particle size of, in relation to α-radiosensitivity of intestines of miniature swine, 22:10676 (BNWL-480, pp 85-97)
particle size of, in relation to plutonium-238 sorption from intestines of miniature swine, 22:10676 (BNWL-480, pp 85-97)
performance and properties of ceramic fuels of, 21:43651
performance as high-burnup fuels for fast reactors, 23:4239
performance characteristics of fuels of, 23:43120
phagocytosis in peritoneal cavity of rats, effects of DTPA and particle size on, 22:10677 (BNWL-480, pp 99-106)
phagocytosis of particles of, by reticula-endothelial cells in rats, 23:6434 (BNWL-714, pp 6.1-21)
phagocytosis of plutonium-239-labeled, in peritoneal cavity of rats, effects of particle size on, 23:24533
phase diagrams of, summary on, 23:25014 (MLM-1589)
phase relations of, 22:43646 (ANL-7299, pp 220-6)
phase studies of substoichiometric, 21:28837 (KFK-543)
physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
preparation and properties, 21:32979
preparation and properties of, 21:15796
preparation and properties of microspheres of plutonium-238-enriched, for use as heat source, 24:22887
preparation and properties of plutonium-238-enriched heat sources of, for human implantation, 25:4228
preparation and properties of pyrolytic-carbon-coated particles of, 21:20550(R) (BMI-1791)
preparation and properties of, containing plutonium-239 for use as intrinsic thermocouple flux probe, 21:10300 (BMI-X-10175)
preparation by oxalate and peroxide calcination, effects of molybdenum and tungsten on, 21:19496(R) (LA-3607)
preparation by sol-gel process, 25:2317 (ORNL-4572, pp 170-3)
preparation by sol-gel process, 23:30129
preparation from plutonium hexafluoride, chemical vapor conversion method for, 23:20532 (CONF-680610-, pp 51-62)
preparation from plutonium nitrate, fluid-bed process for, 25:57507(R) (ANL-7799)
preparation methods for, effects on ceramic properties of, 24:19481 (ARH-1153)
preparation of aquasols of, 23:41720(P)
preparation of carbon-coated particulate, for metallography, 24:8199 (CONF-670533-, pp 116-30)
preparation of carbon-coated spheres of, for compatibility testing, 22:28777(R) (BMI-1837)
preparation of dense microspheres of, by sol-gel process, 22:43643
preparation of dense particles of, by sintering powders held by organic binder, 23:36202(P)
preparation of dense, for use as HFIR targets, 21:1421(R) (ORNL-3965)
preparation of fuel elements of, health physics problems during, 21:46971
preparation of fuel microspheres of, gel supported precipitation method for, 24:27811
preparation of gel microspheres from sols of, 22:4151(P)
preparation of gel microspheres of, 21:32974(P)
preparation of gram quantities of plutonium-238-enriched, 23:48508 (MLM-1569)
preparation of granular fuels of, by spray drying chlorinated hydrocarbon slurries of fuel—binder, 23:36203(P)
preparation of high-density, method for, 21:40959(R) (MLM-1399)
preparation of hypostoichiometric, method for, 23:41723(P)
preparation of magnesium oxide-coated microsphere fuels of, method for, 24:46765(R) (BMI-1831)
preparation of magnesium oxide-coated microspheres fuels of, development of methods for, 24:46766(R) (BMI-1849)
preparation of metallographic specimens of, methods for, 24:48871 (CONF-690954-, pp 192-219)
preparation of micron-sized plutonium-238-enriched, 24:25776
preparation of microparticles of, by ignition of metal-loaded resins, 23:48508 (MLM-1569)
preparation of microparticles of, by sol-gel process, 23:3128
preparation of microspheres and sols of, equipment and methods for, 22:12476 (ORNL-TM-1978)
preparation of microspheres of, 22:21750 (EUR-3737)
preparation of microspheres of plutonium-238-enriched, by sol-gel process, 22:26071 (MLM-1450)
preparation of microspheres of, by sol—gel process, 21:22904 (ORNL-P-2796)
preparation of microspheres of, by sol-gel process, 23:35279
preparation of microspheres of, by sol-gel process, 23:30126
preparation of microspheres of, by sol-gel process, 23:32047(R) (BAW-3714-12)
preparation of microspheres of, by sol-gel process, 22:26073 (ORNL-TM-2205)
preparation of microspheres of, by sol-gel process, developments in, 21:43652 (ORNL-TM-1980)
preparation of microspheres of, flowsheets for, 23:6715 (ORNL-4324)
preparation of microspheres of, for sol-gel process, 21:20466
preparation of microspheres of, sol-gel process for, 24:30004 (CONF-700502-, pp 100-12)
preparation of microspheres of, using sol-gel process, 23:3127
preparation of molybdenum-coated microsphere fuels of, methods for, 24:46765(R) (BMI-1831)
preparation of molybdenum-coated microspheres fuels of, development of methods for, 24:46766(R) (BMI-1849)
preparation of monocrystalline, by thermal decomposition of plutonium sulfate dissolved in chloride melts, 24:51195
preparation of openly porous microspheres of, for use as reactor fuels, 21:26890(P)
preparation of pellet-type fuels of, method for, 25:49515(P)
preparation of plutonium-238—oxygen-16-containing, for radioisotope power generators, 23:7706(P)
preparation of plutonium-238-containing, as heat source, 23:24258
preparation of plutonium-238-enriched heat sources of, for Apollo Lunar Radioisotopic Heater, 23:29093 (MLM-1637)
preparation of plutonium-238-enriched heat sources of, process development for, 25:39650(R) (LA-4697)
preparation of plutonium-238-enriched pellets of, for compatibility testing with refractory metals, 23:24842(R) (DAC-60777)
preparation of plutonium-238-enriched, depleted in oxygen-17 and oxygen-18, 23:7550 (DP-1153)
preparation of plutonium-238-enriched, from oxygen depleted in oxygen-18, 21:30485
preparation of powdered, for use in mixed fuels, 24:8211(R) (NUMEC-3524-67)
preparation of powders of, for incorporation in heat sources, 25:32126(R) (LA-4647)
preparation of pyrolytic carbon-coated fuel particles of, method for, 25:27275(P)
preparation of pyrolytic-coated particles of, for irradiation testing, 23:1035 (BMI-1845, Sect. C)
preparation of samples of plutonium-241-enriched, for neutron cross section measurements, 25:35541
preparation of shaped particles of, for reactor fuel, 22:11036(P)
preparation of silicon carbide-coated particles of, for irradiation testing, 23:1035 (BMI-1845, Sect. C)
preparation of sintered pellets of, method for, 23:24982(P)
preparation of sol of, flowsheet for, 23:30121
preparation of sols of, 23:30125
preparation of sols of, 24:44760 (ORNL-4560, pp 3-38)
preparation of sols of, 22:43643
preparation of sols of, 22:26073 (ORNL-TM-2205)
preparation of sols of, 21:45981 (ORNL-4145, pp 180-207)
preparation of sols of, 22:47110(R) (BAW-3714-7)
preparation of sols of, by baking-peptization process, 24:1068 (ORNL-4422, pp 203-29)
preparation of sols of, by precipitation, 24:48870(R) (BAW-3714-18)
preparation of sols of, by precipitation—peptization methods, 24:27031(R) (BAW-3714-16)
preparation of sols of, method for, 23:2366(R) (BAW-3714-8)
preparation of sols of, methods for, 25:8909 (ORNL-4600, pp 3-40)
preparation of spheres of, using mechanical shaping and sintering, 22:724 (BMI-1809, Sect.C)
preparation of spheres of, using plasma torch, 22:724 (BMI-1809, Sect.C)
preparation of spheres of, using Sol Gel process, 22:724 (BMI-1809, Sect.C)
preparation of targets of, by vacuum evaporation, 25:59638 (CONF-711002-, pp 116-21)
preparation of tungsten-coated microsphere fuels of, methods for, 24:46765(R) (BMI-1831)
preparation of, by direct calcination of plutonium nitrate in screw calciner, fluorination reactivity in, 21:8399 (RL-SEP-675)
preparation of, containing plutonium-238 and depleted in oxygen-17 and oxygen-18, isotope exchange method for, 23:13836(P)
preparation of, production of stable low-nitrate sols for, 22:52244(P)
preparation of, review of methods for, 23:45989
preparation of, sol-gel process for, 21:45981 (ORNL-4145, pp 180-207)
preparation of, use of reactors for heat treatment in, 21:21814(P)
pressing and sintering of granular mixtures of boron-containing, 24:42212(P)
production and properties for use as reactor fuel, review of, 23:9262
production by chemical vapor deposition from hydrogen, plutonium hexafluoride, and water vapor, 22:45026 (ORNL-TM-2306)
production by thermal decomposition of plutonium carbonate at high temperatures, 23:37963
production in Hanford Salt Cycle Process, 21:30499 (HW-SA-3622)
production of dense microparticles of, sol-gel process for, 23:30132
production of dense microspheres of plutonium-238-enriched, development of sol-gel equipment and method for, 25:29921 (ORNL-4565)
production of fuels of, by heat treating carbon coated shaped bodies at 1500 to 1900°C, 23:20541(P)
production of hypostoichiometric fuels of, method for, 23:20542(P)
production of microspheres of, 22:8805 (CONF-670533-8)
production of oxygen-17 and -18 depleted, gas phase-packed bed method for, 25:57655 (MLM-1844)

production of plutonium-238-containing, from nitrate, methods and safety precautions for, 25:54707 (CONF-710401-, pp 300-6)
production of plutonium-238-enriched, by sol-gel process, 24:380 (ORNL-4422, pp 230-8)
production of powdered, review of processes for, 23:10251
production of sols of, method for, 25:55590(R) (EIR-192)
production of, from nitrate, calcination equipment for, 21:5999 (RL-SEP-674)
properties as high-temperature reactor fuel, 23:30169
properties of carbon-coated plutonium-238-enriched microspheres of, effects of temperature on, 24:14874 (LA-4298)
properties of gels and sols of, for preparing microspheres, 21:49 (ORNL-TM-1592)
properties of heat sources of plutonium-238-containing microspheres of, data sheets for, 23:4781 (MLM-1564)
properties of isotopic fuel forms of, tabulations of, 24:7483 (MLM-1691)
properties of microspheres of, 22:15261(R) (BMI-1819)
properties of microspheres of, 22:21645(R) (BMI-1826)
properties of microspheres of, in flame of plasma torch, 21:28834
properties of plasma torch spheroidized plutonium-238-enriched microspheres of, 24:46768 (BMI-1869)
properties of plutonium-238 enriched heat sources of, 24:22876 (HIT-370)
properties of plutonium-238 enriched, for use in SIREN fuel capsules, 25:13170 (SNC-2708-1)
properties of plutonium-238-enriched microspheres of, chemical, physical, and thermal, 24:46765(R) (BMI-1831)
properties of plutonium-238-enriched, for use as fuel for space power systems, 24:36523(P)
properties of plutonium-238-enriched, for use as heat sources, 25:39650(R) (LA-4697)
properties of plutonium-239-enriched fuel microspheres of, determination of as-received, 24:46766(R) (BMI-1849)
properties of plutonium-239-enriched pellets of, 24:25211(R) (LA-4089)
properties of plutonium-239-enriched, chemical and physical, 24:46767(R) (BMI-1860)
properties of vaporized aerosols of, 22:5950
properties of, data sheets on, 22:8724 (MLM-1441)
properties of, effects of time and temperature of exposure on, 21:34962 (RFP-927)
properties of, methods for determination of, 21:6872 (TID-7637)
properties of, physical and thermal, 24:46765(R) (BMI-1831)
PuO_2—UO_2, power production by fuel pins of, parameter optimization for, 23:24872(R) (WARD-3791-32)
purification of, pyrochemical methods for, 25:18492 (ANL-7709)
radiation damage in, self, 21:19496(R) (LA-3607)
radiation dose rates from in-pile exposure samples of, 22:19669 (BNWL-624, pp 2.1-32)
radiation effects on, 22:15261(R) (BMI-1819)
radiation effects on carbon coated, in-pile, 22:15261(R) (BMI-1819)
radiation effects on compacted rods of, at high burnups and temperatures, 23:46146 (BNWL-SA-2412)
radiation effects on crystal structure of, self-, 24:10200
radiation effects on crystallite size and lattice strain of plutonium-238-enriched, self-, 25:49572 (LA-DC-12563)
radiation effects on dogs following inhalation of plutonium-239-labeled particles of, α and γ, 23:6339 (BNWL-714, pp 3.1-38)
radiation effects on fuels of, in-pile, 25:783
radiation effects on fuels of, review on, 22:8804
radiation effects on glass-bearing and graphite-impregnated fuels of, review on, 22:8804
radiation effects on lattice parameters of, self-induced, 21:32937
radiation effects on mechanical properties and microstructure of, neutron, 23:10296 (BNWL-SA-1969)
radiation effects on microstructure of, 5.5-MeV alpha particle, 25:11537
radiation effects on microstructure of, at high burnups, 25:11474(R) (BNWL-842)
radiation effects on plutonium-242-enriched, yields of americium, curium, and fission products from, 22:42587 (DP-1157)
radiation effects on pyrocarbon coatings for particulate, relations of fabrication methods with in-pile, 24:14978
radiation effects on pyrolytic-carbon coated pellets of, 22:724 (BMI-1809, Sect.C)
radiation effects on solubility of, in hydrofluoric acid—nitric acid and phosphoric acid, 21:1421(R) (ORNL-3965)
radiation effects on, electron microprobe analysis of, 22:7788(R) (ANL-7382)
radiation effects on, self-, 22:6138(R) (LA-3820)
radiation testing of fast reactor fuels of, 23:52351(T) (JPRS-48331, pp 481-94)
radiation testing of fuel particles of, 22:5932(R) (NP-17118)
radiation testing of gas cooled fast breeder fuels of, 23:49564(R) (GA-9639)
radioactivity release from heat source microspheres of, deposited on ocean bottom, (E), 23:21888 (AD-675039)
radioactivity release to seawater and sediments from plutonium-238-containing SNAP fuels of, 23:476 (USNRDL-TR-68-74)
radioinduced fission gas release from carbon-coated particulate, in-pile, 22:28777(R) (BMI-1837)
radioinduced porosity in sintered, electron microscopic study of, 25:52473(T) (JPRS-53800, pp 188-95)
radioinduced swelling of, in-pile, 24:42289
radon production in SNAP fuels containing plutonium-238, safety hazards from, 23:9653 (SC-RR-68-832)
reactions of microspheres of, with DART I fuel capsule materials, 25:15837 (MLM-1578)
reactions with chlorine monofluoride with and without oxygen, formation of plutonium tetrafluoride by, 22:4230(R) (EURAEC-1920)
reactions with Hastelloy N at 1000°C, 25:32650
reactions with molten magnesium chloride, 24:50439(R) (ANL-7675)
reactions with molten magnesium chloride, effects of fused silica crucibles, lead, or zinc on, 23:6200
reactions with molten salts at 800°C, 22:25442 (ANL-7375, pp 19-45)
reactivity of uranium dioxide—water lattices with, temperature coefficients of, (E/T), 22:5746
reactivity worth in fast reactor spectra, (E/T), 24:46011(R) (AI-AEC-12969)
reactor lattice parameters for heavy water-moderated fuel rod of, analysis of, 22:22837
reduction by calcium for production of metal, 23:38949
reduction in molten salt—liquid metal system, 22:151
reduction of hypostoichiometric oxygen ratio on, techniques of heat treatment for, 23:37837(P)
reduction to metal using calcium, pyrochemical, 25:8236 (ARH-SA-72)
reprocessing of reactor fuels of, salt transport process for, 23:26319 (ANL-7550, pp 7-22)
retention by lungs of beagle dogs, effects of particle size on, 22:10676 (BNWL-480, pp 85-97)
sampling of aerosols of, for monitoring in nuclear operations, 25:6685
separation from americium and curium by partition chromatography on bis(2-ethylhexyl) orthophosphate supported on poly(chlorotrifluoroethylene), 24:19080
separation from americium by extraction chromatography using bis(2-ethylhexyl) orthophosphate—hydrochloric acid system, 23:35258 (INP-674)
separation from uranium dioxide by electrolysis in fused salt baths, 22:30669
separation of plutonium from, by pyrochemical methods, 25:18492 (ANL-7709)
separation of transuranium elements from HFIR targets of, method for, 24:5707 (ORNL-TM-2434)
separation of uranium from, using fluoride volatility process, 22:42806 (ANL-7412)
shielding of plutonium-238-enriched heat sources of, for unmanned spacecraft, 25:4246
size distribution of encapsulated microspheres of, effects of high-velocity impact on, 22:42995 (MLM-1499)
solubility in nitric acid, catalytic effects of sodium dicyanamide on, 22:1956(R) (MLM-1405)
solubility in seawater, 24:23431
solubility of plasma torch produced microspheres of, in water, 22:42977(R) (SC-PR-68-451)
solubility of plutonium-238-labeled, in gastric juice, 23:6340 (BNWL-714, pp 4.1-24)
solubility of, in sea water, electrochromatography studies on, 21:5849 (USNRDL-TRC-85)
solvent properties of plutonium-238- and -239-enriched, for helium at high temperatures, 24:46768 (BMI-1869)
sorption by intestines of rats, effects of age and particle size on, 22:10676 (BNWL-480, pp 85-97)
sorption of ingested, by swine, 21:14542 (BNWL-280, pp 40-3)
sorption of plutonium-238 enriched, by gastrointestinal tract of pigs, 22:49536
sorptive properties for carbon dioxide, nitric oxide, and water vapor at 25 to 1000°C, 23:7503 (RFP-1248)
sorptive properties for oxygen at 76 to 193°K, 21:46010
sorptive properties of sintered, for oxygen, 21:46004
sorptive properties of sintered, for oxygen at 25 to 800°C, 21:32947 (RFP-915)
specific heat of, 22:34065(R) (MLM-1445)
specifications of vendor-produced, for LMFBR development program, 24:17360(R) (WARD-4135-1)
spectra of, infrared absorption, 22:19648 (EUR-3739)
spectra of, infrared reflection and absorption, 25:25238
stability at high temperatures, 21:21755(R) (ANL-7302)
stability of microspheres of, 22:8805 (CONF-670533-8)
stability of powdered, method for increasing, 21:32973(P)
stability of sols of, 22:43643
stoichiometry of, effects of heat treatments on, 22:21645(R) (BMI-1826)
storage behavior of, review of effects of adsorbed contaminants and radiation properties on, 25:24566
strength of fuel particles of, effects of fabrication method on crushing, 21:32951(R) (BMI-1798)
strength of microspheres of, effects of size on compressive, 22:52262 (MLM-1540)
testing of plasma fired microspheres of, 456-ft/sec impact, 23:45485 (SC-DR-69-346)
testing of pyrolytic carbon coated, 22:724 (BMI-1809, Sect.C)
testing pyrolytic-carbon coated particles of, at high temperatures, 23:1035 (BMI-1845, Sect. C)
thermal capacity at 300 to 1100°K, 23:30026
thermal capacity at 300 to 1100°K, 22:2612(R) (MLM-1402)
thermal capacity of stoichiometric, vibrational, 25:11996
thermal capacity to 1800°K, 23:6744
thermal conductivity at 25 to 850°C, 24:34978 (BMBW-FBK-70-1, pp 176-200)
thermal conductivity at 250 to 1000°C, 22:11051
thermal conductivity calculations for powdered, effective, 21:13127 (ORNL-3970, pp 225-30)
thermal conductivity of, 23:10275
thermal conductivity of substoichiometric, 21:28837 (KFK-543)
thermal desorption of radiolytically produced nitric oxide from, mass spectrometric studies on, 25:13024
thermal diffusivity measurements at 150 to 1700°C for pneumatically impacted, 21:46025(R) (BNWL-CC-761)
thermal expansion of plasma-formed microspheres of plutonium-238-enriched, at 14 to 1505°C, 24:44796
thermal stability of, 21:31898(R) (ANL-7329)
thermodynamic behavior of substoichiometric, at high temperatures, 22:31477
thermodynamic properties of, 23:6744
thermodynamic properties of, 22:23007 (UJV-1832)
thermodynamic properties of, 22:30118 (ANL-7438)
thermodynamic properties of PuO/sub 2-x/, 21:33000
thermodynamic properties of, effects of oxygen vacancies on, 21:32996
thermodynamic properties of, mass-spectrometric studies of, 22:36543 (ANL-7450, pp 39-74)
thermodynamics at oxygen-to-plutonium ratio range of 1.73 to 2.00, at 2050 to 2650°C, 22:26038(R) (GEAP-5395)
toxicity of inhaled plutonium-239-labeled, in dogs, 25:26599
transport in rats, effects of DTPA treatment on, 24:16952
uptake and translocation from puncture wounds in dogs, 25:46901(R) (COO-1787-11)
uptake of aerosols of plutonium-238-incorporated, following inhalation by man, 22:38261(R) (SC-CR-67-2845)
uptake through puncture wounds in dogs, 25:44840(R) (COO-1787-12)
use for reactor fuels, 1967 summary of French research on, 23:4171 (NP-17597, pp 41-73)
vapor pressures of hypostoichiometric, at 2070 to 2380°K, 23:27180
vaporization heats, 22:43631 (ANL-7299, pp 120-37)
vaporization of, 22:23007 (UJV-1832)
vaporization of, aerosal agglomeration and formation from, 22:15141 (BNL-50057, pp 79-100)
vaporization of, aerosol properties of high-temperature, (E), 21:46962 (BNL-11612)
vaporization of, enthalpy of, 22:52257 (ANL-7425, pp 94-129)
vaporization of, thermodynamic study of, 21:3055
vaporization of, ultrahigh-vacuum effusion apparatus for, 22:52257 (ANL-7425, pp 94-129)
vibrational frequencies of stoichiometric, ir spectroscopic measurements of, 25:11996
volatilization of pyrolytic-carbon-coated, at 900 to 1800°C, 21:20550(R) (BMI-1791)
volume change in pneumatically-impacted, effects of annealing to 1400°C on, 21:46025(R) (BNWL-CC-761)
Al_2O_3—fission products—PuO_2—U_3O_8, fluorination of, by bromine pentafluoride, 21:4591 (ANL-7125, pp 61-106)
Al_2O_3—PuO_2, criticality calculations for homogeneous, 22:45143 (K-1734)
Al_2O_3—PuO_2, criticality studies in chemical reprocessing reactor, 21:32225 (EURAEC-1858)
Al—PuO_2, analysis of fuels of, for fission products by γ scanning, 23:35007
Al—PuO_2, analysis of irradiated, by γ scanning, 23:28717 (BNWL-1005)
Al—PuO_2, fabrication into fuel elements having aluminum cladding, 22:26025(P)
Am_2O_3—Cm_2O_3—PuO_2, preparation of microspheres of, by sol-gel process, 23:24222(R) (ORNL-4376)
BeO—PuO_2, radiation dose rate from, fast-neutron, γ, and x, 25:11052 (AERE-R-5069)
BeO—PuO_2—ThO_2, development as fuel material for gas-cooled reactors, summary, 21:18308(R) (BMI-1784)
BeO—PuO_2—ThO_2, development of fuels of, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
BeO—PuO_2—ThO_2, fabrication into fuel incorporating plutonium-240, 23:3108 (BMI-X-10242)
BeO—PuO_2—ThO_2, fuel cycle for, analysis of optimum economic, (T), 23:13503(R) (GA-6532)
BeO—PuO_2—ThO_2, preparation of fine grain matrixes for reactor fuels, process for, 25:54303(P)
BeO—PuO_2—ThO_2—UO_2, preparation of fine grain matrixes for reactor fuels, process for, 25:54303(P)
BeO—PuO_2—ThO_2—UO_2, processing of irradiated, cost study of facility for, 21:45188 (AAEC/E-175)
BeO—PuO_2—ThO_2—UO_2, reprocessing fuel of, 22:149
BeO—PuO_2—UO_2, effects of oxygen loss on melting points of, 21:46964(R) (BNWL-CC-821)
BeO—PuO_2—UO_2, phase studies of, 21:46964(R) (BNWL-CC-821)
BeO—PuO_2—UO_2, phase studies on, 21:16651 (BNWL-350)
BeO—PuO_2—UO_2, preparation of fine grain matrixes for reactor fuels, process for, 25:54303(P)
C—PuO_2—Pu_2O_3, preparation of carbon-coated particles of, 23:20538(P)
C—PuO_2—UO_2, reactions of microspheres of, carbothermic, 24:30022 (CONF-700502-, pp 434-47)
$Cd(NO_3)_2$—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
$Cd(NO_3)_2$—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$—UO_2, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
CeO_2—PuO_2, preparation and properties of, containing plutonium-239 for use as intrinsic thermocouple flux probe, 21:10300 (BMI-X-10175)
Cr—PuO_2—UO_2, cermet fuels for 1000 MW(e) high-temperature gas-cooled fast breeder reactors, 23:11238 (EURFNR-580)
criticality parameters of unmoderated plutonium-240 enriched, effects of composition and configuration on, 25:18098(R) (BNWL-1522-1)
fabrication of fuel rods of, design of development laboratory for, 25:51784
Fe_2O_3—PuO_2, phase diagrams in air, 24:6282
fission products—PuO_2—UO_2, fluorination by bromine pentafluoride or fluorine in fluidized bed, 21:45192 (ANL-7325, pp 50-98)
fission products—PuO_2—UO_2, fluorination of pellets of, in fluidized bed, 22:25443 (ANL-7375, pp 46-94)
fission products—PuO_2—UO_2, fluorination of, by bromine pentafluoride, 21:4591 (ANL-7125, pp 61-106)

fission products—PuO_2—UO_2, processing of, computer program for data reduction and flowsheet calculation for, 21:3142 (ANL-7197)
graphite—PuO_2, stability of fuel elements of, at high temperatures, 22:38597 (AECL-2783)
H_2O—PuO_2, criticality calculations for homogeneous, 22:45143 (K-1734)
H_2O—PuO_2, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
H_3BO_3—$Pu(NO_3)_4$—PuO_2—$U(NO_3)_4$—UO_2, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
Ho_2O_3—PuO_2, phase diagrams, 22:2703 (KFK-597)
Li_2O—PuO_2, compound formation in, search for septivalent plutonium in, 23:15861
Lu_2O_3—PuO_2, phase studies at 1270 to 1700°C, 23:1048 (KFK-737)
MeO/sub x/—PuO_2, phase studies of, 22:17168 (STI/DOC-10/79)
MgO_2—PuO_2, preparation, properties, and phase relations of, 22:2699
MgO—PuO_2, compatibility in fuel microspheres at 1500°C, 24:46766(R) (BMI-1849)
MgO—PuO_2, preparation of composite fuel microspheres of, 24:46766(R) (BMI-1849)
MgO—PuO_2, preparation of dense fuels of, methods for, 24:46765(R) (BMI-1831)
MgO—PuO_2, properties of plutonium-239-enriched fuel particles of, mechanical and thermal, 24:46766(R) (BMI-1849)
MgO—PuO_2, radiation effects on fuel elements of, neutron, 21:41679 (BNWL-225)
MgO—PuO_2, radiation effects on fuels of, review on, 22:8804
Mo—PuO_2, aging experiments on curium oxide-doped cermet pellets of, flowsheets for, 25:57658(R) (ORNL-4723)
Mo—PuO_2, coating of fuels of, method for thorium dioxide, 24:46767(R) (BMI-1860)
Mo—PuO_2, coating of fuels of, with molybdenum, tantalum, or tungsten, methods for, 24:46767(R) (BMI-1860)
Mo—PuO_2, compatibility in fuel microspheres at 1500°C, 24:46766(R) (BMI-1849)
Mo—PuO_2, compatibility of cermets of, with fuel capsule materials, plans for studies of oxides, 25:22135(R) (MDC G-2026)
Mo—PuO_2, compatibility with refractory metal-lined fuel capsules at 1500 to 2000°C, 25:51717(R) (MDC G-3124)
Mo—PuO_2, development of fuel elements of, for 30 MW repetitively pulsed fast research reactor, 23:21510 (BNL-13208)
Mo—PuO_2, diffusion of helium from cermets of, at 2000°C, 24:46431(R) (MDC G-1700)
Mo—PuO_2, diffusion of helium from, at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
Mo—PuO_2, dissolution of, sealed-tube method for, 21:6801 (LA-3554)
Mo—PuO_2, fabrication and testing of duplex molybdenum—thorium dioxide-coated cermet fuels of, 24:46768 (BMI-1869)
Mo—PuO_2, fabrication of plutonium-239-containing fuels of, method for, 23:40948(R) (SC-PR-69-434)
Mo—PuO_2, gas content of, effects of heating at 2000°C for 1000 hr on, 24:44655(R) (MDC G-1675)
Mo—PuO_2, melting and vaporization behavior of cermet radioisotope fuels of, 25:39650(R) (LA-4697)
Mo—PuO_2, neutron emission from fuel capsules of, measurement of total, 25:44544(R) (MLM-1817)
Mo—PuO_2, preparation of dense fuels of, methods for, 24:46765(R) (BMI-1831)
Mo—PuO_2, preparation of fuel disks of, by hot pressing, 25:32126(R) (LA-4647)
Mo—PuO_2, preparation of fuels of, 24:46768 (BMI-1869)
Mo—PuO_2, preparation of heat sources of plutonium-238-enriched, flowsheets and methods for, 25:44544(R) (MLM-1817)
Mo—PuO_2, preparation of high-density fuel particles of, 24:46766(R) (BMI-1849)
Mo—PuO_2, properties of cermet heat sources of, 25:44544(R) (MLM-1817)
Mo—PuO_2, properties of plutonium-239-enriched fuel particles of, mechanical and thermal, 24:46766(R) (BMI-1849)
Mo—PuO_2, separation of plutonium from, pyrochemical methods for, 25:18492 (ANL-7709)
Mo—PuO_2, stability at 2000°C, dimensional and thermal, 24:36505(R) (MDC G-1689)
Mo—PuO_2, testing of reentering plutonium-238-enriched fuels of, method for simulated ablation, 24:36509(R) (SC-PR-70-222)
Mo—PuO_2, testing of refractory metal-encapsulated cermets of, plans for, 25:24614(R) (MDC G-2033)
Mo—PuO_2, thermal stability of coated and uncoated fuels of, 24:46768 (BMI-1869)
Mo—PuO_2, thermal testing at 1800 to 2000°C, 24:46431(R) (MDC G-1700)
Mo—PuO_2—ThO_2, compatibility of layer-type composite fuel microspheres of, at 1500°C, 24:46768 (BMI-1869)
Mo—PuO_2—ThO_2, compatibility with refractory metal-lined fuel capsules at 1500 to 2000°C, 25:51717(R) (MDC G-3124)
Mo—PuO_2—ThO_2, compatibility with tantalum—tungsten alloy capsule materials at high temperatures, 25:32126(R) (LA-4647)
Mo—PuO_2—ThO_2, development of heat sources of plutonium-238-enriched, for Transit Navigation Satellite, 25:48749
Mo—PuO_2—ThO_2, etching of sintered, for optical microcopy, method for, 25:58354
Mo—PuO_2—ThO_2, reactions of composite fuels of, in wind tunnel tests simulating reentry, 24:46767(R) (BMI-1860)
Na_2O—PuO_2, settling rates of aerosols of, 23:40913 (BNL-50149, pp 123-52)
Na—PuO_2—UO_2, aerosol behavior simulation for accidents in liquid sodium-cooled fast breeder, analysis of, 22:53262 (BNL-12757)
Na—PuO_2—UO_2, aerosols of, produced in air and nitrogen, properties of, 23:29019
nichrome—PuO_2, preparation of, 21:20466
polyethylene—PuO_2—UO_2, criticality studies on, description of, 23:4369
polystyrene—PuO_2, compacts of, effects of composition and configuration on criticality of, 23:17188(R) (GA-8107)
polystyrene—PuO_2, critical parameters of fuel compacts of, with 5 to 1 hydrogen/plutonium atom ratio, 23:9208
polystyrene—PuO_2, criticality of bare and plexiglass-reflected rectangular parallelepipeds of 5 hydrogen to plutonium ratio, measurement of, 22:37530 (BNWL-SA-1630)
polystyrene—PuO_2, criticality of rectangular-shaped lattices of, analysis of, 22:42164(R) (BNWL-775)
polystyrene—PuO_2, criticality of, effects of density and configuration on, 23:7389(R) (GA-7645)
polystyrene—PuO_2, criticality studies of homogeneous systems of, 22:6114
Pu—PuO_2, oxygen potentials of nonstoichiometric, 21:35957
PuO_2—$^{238}UO_2$, neutron physics for FTR fuel elements, 21:21785
PuO_2—Pu_2O_3—UO_2, phase studies of, 24:42273
PuO_2—Re, dissolution of, sealed-tube method for, 21:6801 (LA-3554)
PuO_2—Re, vapor pressure of, in vaporization study of PuO_2, 21:3055
PuO_2—stainless steel, fabrication of, 22:7050
PuO_2—stainless steel, heat transfer from, in FTR core meltdown, 21:34152 (APDA-194)
PuO_2—stainless steel, neutron physics of cermets for FTR fuel elements, 21:21785
PuO_2—stainless steel, processing for production of fuel, PCUT plant capability for, 22:49799
PuO_2—stainless steel, properties for driver fuels, neutronic, (E/T), 21:8082
PuO_2—stainless steel, radiation effects on mechanical properties of, measurement of neutron, 23:15673(R) (BNWL-541)
PuO_2—stainless steel, radiation effects on metal-clad fuel elements of, 21:21755(R) (ANL-7302)
PuO_2—stainless steel, thermal expansion at 25 to 1250°C, 25:38010
PuO_2—stainless steel—UO_2, fabrication of cermet fuels of, 22:8810
PuO_2—stainless steel—UO_2, fabrication of pellets of, powder metallurgical, 25:29931
PuO_2—stainless steel—UO_2, fuel elements of, fabrication of Fermi Fast Breeder Reactor pin, 21:46963(R) (BNWL-CC-694)
PuO_2—stainless steel—UO_2, radiation effects on cermet plates and rods of, in-pile, 23:8359
PuO_2—stainless steel—UO_2, radiation effects on stainless steel-clad, 21:14918
PuO_2—stainless steel—UO_2, vaporization of, properties of aerosols produced by, 23:29017
PuO_2—Ta, vapor pressure of, in vaporization study of PuO_2, 21:3055
PuO_2—Th, processing for production of fuel, PCUT plant capability for, 22:49799
PuO_2—ThO_2, testing at 1500°C for long-term compatibility with ceramic fuel matrices, 24:46768 (BMI-1869)
PuO_2—ThO_2, analysis for plutonium by electrometric methods after dissolution by fusion with ammonium hydrogen sulfate, 21:21879
PuO_2—ThO_2, coating of powdered, with molybdenum, chemical vapor deposition method for, 24:41612(R) (LA-4476)
PuO_2—ThO_2, compatibility with capsules of refractory materials at high temperatures, 24:25212(R) (LA-4328)
PuO_2—ThO_2, compatibility with refractory alloy capsule materials at high temperatures, 24:41612(R) (LA-4476)
PuO_2—ThO_2, compatibility with refractory alloy fuel capsules at 900°C, 25:39650(R) (LA-4697)
PuO_2—ThO_2, compatibility with TZM alloy at high temperatures, 24:25211(R) (LA-4089)
PuO_2—ThO_2, compatibility with TZM at 900°C, 24:31592(R) (LA-4419)
PuO_2—ThO_2, development for fuel, 23:8303 (LA-DC-10046)
PuO_2—ThO_2, development of spheres of, for use in radioisotope heat sources, 25:39650(R) (LA-4697)
PuO_2—ThO_2, dissolution by fusion with ammonium hydrogen sulfate, 21:21879
PuO_2—ThO_2, dissolution of microspheres of, in seawater, 24:25211(R) (LA-4089)
PuO_2—ThO_2, etching of sintered, for optical microscopy, method for, 25:58354
PuO_2—ThO_2, fabrication of plutonium-238-enriched fuels of, for space power systems, 24:25210(R) (LA-4068)
PuO_2—ThO_2, fabrication of plutonium-238-enriched fuels of, for space power systems, flowsheets and methods for, 24:25212(R) (LA-4328)
PuO_2—ThO_2, fabrication of Zircaloy-2-clad, processes for, 21:28811 (AECL-2675)
PuO_2—ThO_2, fuel elements for pebble bed reactors, design and economics of dispersion of, 22:22716
PuO_2—ThO_2, gamma emission from molybdenum-coated disks of, intensity of, 25:32126(R) (LA-4647)
PuO_2—ThO_2, metallography of molybdenum-coated pressed pellets of, 25:58398
PuO_2—ThO_2, microstructure of plutonium-238-enriched pellets of, 24:25211(R) (LA-4089)
PuO_2—ThO_2, microstructure of plutonium-238-enriched fuels of, 24:25210(R) (LA-4068)
PuO_2—ThO_2, power density of solid-solution radioisotopic fuels of, 22:49785 (LA-DC-9686)
PuO_2—ThO_2, preparation by sol-gel process, 24:1069 (ORNL-4422, pp 239-51)
PuO_2—ThO_2, preparation of microspheres of, by sol-gel process, 22:26073 (ORNL-TM-2205)
PuO_2—ThO_2, preparation of microspheres of, by sol-gel process, 22:43643
PuO_2—ThO_2, preparation of microspheres of, from solvent extraction sols, 22:12476 (ORNL-TM-1978)
PuO_2—ThO_2, preparation of mixed microparticles of, by sol-gel process, 23:3128
PuO_2—ThO_2, preparation of molybdenum-coated plutonium-238 enriched heat sources of, 24:31592(R) (LA-4419)
PuO_2—ThO_2, preparation of solid-solution space electric power fuels of, 24:41612(R) (LA-4476)
PuO_2—ThO_2, preparation, properties, and phase relations of, 22:2699
PuO_2—ThO_2, processing for production of fuel, PCUT plant capability for, 22:49799
PuO_2—ThO_2, production of dense controlled-size particles of, by sol-gel process, 23:10253
PuO_2—ThO_2, production of dense microparticles of, sol-gel process for, 23:30132
PuO_2—ThO_2, properties of solid-solution fuels of, mechanical, physical, and thermal, 24:41612(R) (LA-4476)
PuO_2—ThO_2, properties of, data tabulations on chemical and electric, 24:46784 (ORNL-4503(Vol.1))
PuO_2—ThO_2, radiation effects on clad powder compacts of sol-gel-derived, neutron, 23:16548 (ORNL-4275, pp 121-34)
PuO_2—ThO_2, radiation effects on fuel elements of, neutron, 21:41679 (BNWL-225)
PuO_2—ThO_2, radiation effects on fuel pellets of, review of in-pile, 25:54082 (A/CONF.49/P-158)
PuO_2—ThO_2, radiation effects on fuels of, review on, 22:8804
PuO_2—ThO_2, radiation effects on helium production and diffusion in solid solutions of, alpha particle, 24:41612(R) (LA-4476)
PuO_2—ThO_2, radiation effects on plutonium-238-enriched SNAP fuels of, alpha particle, 25:32126(R) (LA-4647)
PuO_2—ThO_2, radiation testing of metal-clad fuels of, in-pile, 22:8823 (ORNL-4170, pp 211-26)
PuO_2—ThO_2, reactions with rhenium—tungsten thermocouples at 2215 to 2290°C, 22:645 (AECL-2768)
PuO_2—ThO_2, sintering in carbon dioxide, 21:447(R) (BMI-1778)
PuO_2—ThO_2, sintering of, densification and solid solution formation in, 22:45802 (AERE-M-1964)
PuO_2—ThO_2, stability of solid-solution, at high temperatures in air, 21:25736 (AAEC/TM-352)
PuO_2—ThO_2, testing of pellets of, impact, 24:25212(R) (LA-4328)
PuO_2—ThO_2, thermal conductivity of, effects of burnup on, 23:4474
PuO_2—ThO_2—UO_2, preparation of microspheres of, by gel-supported precipitation, 24:32488
PuO_2—ThO_2—UO_2, stability of solid-solution, at high temperatures in air, 21:25736 (AAEC/TM-352)
PuO_2—ThO_2—UO_2, thermal conductivity of, effects of reduced oxygen ratio on, 23:37837(P)
PuO_2—ThO_2-base, radiation effects testing of, in-pile, 22:23904 (CONF-660524-, pp 463-73)
PuO_2—ThO_2-base, thermal conductivity at 0 to 1630°C under irradiation, 23:36268 (AECL-3294)
PuO_2—TiO_2, phase studies of, 21:16652 (KFK-433)
PuO_2—Tm_2O_3, phase studies, 22:4890 (KFK-521)
PuO_2—transition metal, fabrication into cermet fuel by compacting and sintering powder mixtures, 23:34075(P)
PuO_2—U, fabrication for reactor fuels, 23:22505
PuO_2—U_3O_8, analysis for impurities, effects of ratio of plutonium oxide to uranium oxide on impurity spectral line intensity in spectrographic, 25:4015 (NUMEC-3524-76)
PuO_2—UO_2 fabrication of encapsulated, for preirradiation creep testing, 23:39038 (BMI-1862, Sect.C)
PuO_2—UO_2 vapor pressures of, preparations for determining, 23:22652(R) (GEAP-5720)
PuO_2—UO_2, actinide distribution in irradiated fuel pins of, 25:40113
PuO_2—UO_2, analysis for carbon and hydrogen by combustion—manometric method, 24:7397 (LA-4260)
PuO_2—UO_2, analysis for characterizing FFTF fuels of, 22:5 (BNWL-SA-1388, pp 10.1-14)
PuO_2—UO_2, analysis for fission product rare earths, method for, 24:36951 (ORNL-4520, pp 3-56)
PuO_2—UO_2, analysis for impurities by distillation with carrier in electric arc, spectrographic, 23:34976
PuO_2—UO_2, analysis for metal abundance relative to oxygen by controlled-potential coulometry, 24:26936
PuO_2—UO_2, analysis for moisture content, method for, 23:32047(R) (BAW-3714-12)
PuO_2—UO_2, analysis for neodymium by neutron activation and radiochemical separation, 23:7465
PuO_2—UO_2, analysis for oxygen by gas chromatography, 24:36145 (LA-4439)
PuO_2—UO_2, analysis for oxygen to metal ratio, gravimetric, 23:49689 (EUR-4296)
PuO_2—UO_2, analysis for plutonium and uranium by controlled-potential coulometric and potentiometric titrations, 25:8200 (LA-4537)
PuO_2—UO_2, analysis for plutonium and uranium simultaneously in sulfuric acid solutions by controlled potential coulometry, 23:49707
PuO_2—UO_2, analysis for plutonium by electrometric methods after dissolution by fusion with ammonium hydrogen sulfate, 21:21879
PuO_2—UO_2, analysis for plutonium by oxidation using ammonium persulfate and silver nitrate, potentiometric, 25:26
PuO_2—UO_2, analysis for plutonium dioxide by gamma spectroscopy, 24:23540(T) (JAPFNR-6)

PuO$_2$—UO$_2$, analysis for plutonium, calorimetric, 25:48434 (CONF-710617-22)
PuO$_2$—UO$_2$, analysis for plutonium, plutonium isotopes, and uranium, 25:34503(R) (NBL-256)
PuO$_2$—UO$_2$, analysis for plutonium-240, using boron trifluoride detectors, 24:44222 (BNL-50205, pp 16-25)
PuO$_2$—UO$_2$, analysis for rare earth impurities by solvent extraction and emission spectrography, 25:12923 (WHAN-SA-47)
PuO$_2$—UO$_2$, analysis for uranium after ferrous ion reduction in phosphoric acid, methods for automatic and manual titrimetric, 24:38712 (NBL-252)
PuO$_2$—UO$_2$, analysis for uranium, potentiometric method for, 24:48874(R) (NP-18353)
PuO$_2$—UO$_2$, analysis for water, coulometric, 23:2173 (EUR-4050)
PuO$_2$—UO$_2$, analysis for zirconium, spectrographic, 22:8847(R) (NUMEC-3524-37)
PuO$_2$—UO$_2$, analysis of fuel and source materials of, evaluation of chemical methods for, 25:26153 (LA-4622)
PuO$_2$—UO$_2$, analysis of fuel rods of, for plutonium using gamma spectrometry, 25:46609 (BNWL-SA-3827)
PuO$_2$—UO$_2$, analysis of fuels of, evaluation of methods for, 24:2 (BAW-4088-1)
PuO$_2$—UO$_2$, analysis of fuels of, evaluation of methods for, 24:5589
PuO$_2$—UO$_2$, analysis of fuels of, for fission products by γ scanning, 23:35007
PuO$_2$—UO$_2$, analysis of fuels of, for plutonium and uranium, methods for, 25:58344(R) (LA-4693)
PuO$_2$—UO$_2$, analysis of fuels of, for rare earths by solvent extraction and emission spectrography, 25:12922 (WHAN-SA-44)
PuO$_2$—UO$_2$, analysis of hypostoichiometric fuel pellets of, for sorbed gases and water, 25:12925 (WHAN-SA-77)
PuO$_2$—UO$_2$, analysis of irradiated fuels of, electron microprobe, 24:25001
PuO$_2$—UO$_2$, analysis of irradiated stainless steel-clad, shielded electron probe microanalyzer for, 25:51379
PuO$_2$—UO$_2$, analysis of irradiated, by electron microprobe method, 24:43935 (ANL-7650, pp 35-40)
PuO$_2$—UO$_2$, analysis of irradiated, by γ scanning, 23:28717 (BNWL-1005)
PuO$_2$—UO$_2$, analysis of irradiated, electron-microprobe, 22:36543 (ANL-7450, pp 39-74)
PuO$_2$—UO$_2$, analysis of irradiated, for cesium-137, neodymium-148, and transuranium elements as measure of burnup, 25:18359 (WCAP-3385-56(Pt.2))
PuO$_2$—UO$_2$, analysis of irradiated, for fission products, electron microprobe method for, 24:11442
PuO$_2$—UO$_2$, analysis of irradiated, for solid fission products, 22:4023
PuO$_2$—UO$_2$, analysis of pellets of, emission spectroscopy method for, 23:48502 (ORNL-4420, pp 3-39)
PuO$_2$—UO$_2$, analysis of, preparation of standards for, 25:1(R) (GEAP-12114-1)
PuO$_2$—UO$_2$, analysis of, techniques for x-ray diffractometric, 21:27896 (TRG-Report-1309)
PuO$_2$—UO$_2$, analytical inspection of FFTF sintered, development of standards for, 23:7393 (BAW-3968-1)
PuO$_2$—UO$_2$, blending fuels of, performance of Loedige-type mixer for, 21:28046 (AERE-M-1884)
PuO$_2$—UO$_2$, blending of, evaluation of ballmill and hammermill, 23:51089(R) (NUMEC-3524-50)
PuO$_2$—UO$_2$, brittle-to-ductile transition temperature in blended fuels of, bend tests on, 25:55610
PuO$_2$—UO$_2$, burnup analyses on fuel pins of, 21:24833 (GEAP-5433)
PuO$_2$—UO$_2$, burnup analysis of NaK-cooled type-316 and type—347 stainless steel clad fuel rods of, 22:25083(R) (GEAP-5541)
PuO$_2$—UO$_2$, burnup characteristics in BR-5 (USSR) Reactor fuel elements of, during 1964, 22:18571
PuO$_2$—UO$_2$, burnup effects on oxygen to metal ratio of fuels of, (E/T), 24:22509 (AERE-R-6264)
PuO$_2$—UO$_2$, burnup in PRTR of high power density, analysis of, 23:4401
PuO$_2$—UO$_2$, burnup in Saxton Power Reactor fuel assemblies, analysis of, 21:46868(R) (WCAP-3385-12)
PuO$_2$—UO$_2$, burnup of EBWR fuel rods of, post-irradiation data for, 23:26046 (BNWL-978)
PuO$_2$—UO$_2$, burnup of fast reactor fuels of, chemical state after, 24:5687
PuO$_2$—UO$_2$, burnup of fuel elements of, calculation from isotopic composition in Saxton Power Reactor, (E/T), 22:27417(R) (WCAP-3385-14)
PuO$_2$—UO$_2$, burnup of fuels of, effects of time at 185 MW metric ton on, 24:4827 (ORNL-4440, pp 3-28)
PuO$_2$—UO$_2$, burnup of irradiated, 22:11090 (NUMEC-3432-24)
PuO$_2$—UO$_2$, burnup of liquid sodium-cooled fast reactor fuel of, analysis of, 22:18511
PuO$_2$—UO$_2$, burnup of pin type, fuel elements of, 23:33079(R) (BNWL-941)
PuO$_2$—UO$_2$, burnup of thermal reactor fuels of, 25:41623
PuO$_2$—UO$_2$, burnup of Type 304 stainless steel clad sphere-pac Sol-Gel fuel elements of, analysis of, 24:33556
PuO$_2$—UO$_2$, burnup of type 316 stainless steel clad fuel pins of, analysis of, 22:17189
PuO$_2$—UO$_2$, burnup of type 316 stainless steel-clad, gamma scan analysis of, 22:32970(R) (GEAP-5584)
PuO$_2$—UO$_2$, burnup of vibrationally compacted, effects of internal pressure buildup on, 22:19669 (BNWL-624, pp 2.1-32)
PuO$_2$—UO$_2$, burnup of Zircaloy 2 clad cluster arranged rods, (E), 24:46123 (BNWL-1488)
PuO$_2$—UO$_2$, burnup of, radiochemical determination of cesium-137 for measurement of, 21:40770 (EUR-3603.f)
PuO$_2$—UO$_2$, burnup performance of stainless steel-clad tungsten carbide (W$_2$C)-coated pellet-type, effects of fabrication and stoichiometry on, 22:39783(R) (NUMEC-3432-32)
PuO$_2$—UO$_2$, burnup performance of Type 316 stainless steel-clad, analysis of 125,000 MWd/Te, 22:50732(R) (GEAP-5631)
PuO$_2$—UO$_2$, characterization and fabrication of pellets of, for radiation testing, 24:19498(R) (UNC-5251)
PuO$_2$—UO$_2$, chemical and physical properties of vibrational compacted, 21:44960 (BNWL-CC-319)
PuO$_2$—UO$_2$, chemical composition and physical properties of, control methods for, 23:20535 (ORNL-4350, pp 3-32)
PuO$_2$—UO$_2$, chemical reactions with Hastelloy X and stainless steels, effects of gas cooled fast breeder reactor conditions on, (E/T), 25:44123 (ORNL-TM-3385)
PuO$_2$—UO$_2$, compaction of powdered, into fuel test bodies, 22:43627 (ANL-7299, pp 14-113)
PuO$_2$—UO$_2$, compatibility of clad, with sodium at 650°C, 22:13044 (BNWL-473, pp 3.1-21)
PuO$_2$—UO$_2$, compatibility of fission product-containing, with Type 304 stainless steel fuel cladding, effects of stoichiometry on, 25:40110
PuO$_2$—UO$_2$, compatibility of fuel elements of, with sodium, 24:17209
PuO$_2$—UO$_2$, compatibility of fuels of, with ceramic and metal fuel motion restrictors, 23:32069 (BNWL-SA-1690)
PuO$_2$—UO$_2$, compatibility of fuels of, with liquid sodium, thermodynamic studies on, 21:24833 (GEAP-5433)
PuO$_2$—UO$_2$, compatibility of simulated irradiated fuels of nonstoichiometric, with sodium and stainless steel, effects of fission products on, 25:47159
PuO$_2$—UO$_2$, compatibility of sodium-bonded Type 316 stainless steel-clad, analysis of interface, 22:50732(R) (GEAP-5631)
PuO$_2$—UO$_2$, compatibility with Hastelloy X and Type 316 stainless steel cladding, relations with cladding temperature, 25:47107
PuO$_2$—UO$_2$, compatibility with insulated rhenium—tungsten thermocouples at 2300°C, 24:25679 (GEMP-739)
PuO$_2$—UO$_2$, compatibility with refractory metals at 1300 to 2100°C, 21:32948
PuO$_2$—UO$_2$, compatibility with rhenium—tungsten alloy thermocouples at 4700°F, 21:6328 (GEAP-5166)
PuO$_2$—UO$_2$, compatibility with stainless steel fuel cladding, 25:40109
PuO$_2$—UO$_2$, compatibility with stainless steel, testing of, 24:7369
PuO$_2$—UO$_2$, compatibility with Type 304 stainless steel at 650 to 1000°C, 25:11474(R) (BNWL-842)
PuO$_2$—UO$_2$, compatibility with vanadium and vanadium alloy cladding, theoretical considerations of in-pile, 25:22098
PuO$_2$—UO$_2$, composition and properties of sphere-pac fuels of, 25:29922 (ORNL-4630, pp 3-58)
PuO$_2$—UO$_2$, composition distribution in test fuels of, measurements of, 25:32823 (HEDL-TME-71-45)
PuO$_2$—UO$_2$, composition of microspheres of, methods of determining elemental ratios of, 24:44760 (ORNL-4560, pp 3-38)
PuO$_2$—UO$_2$, contamination of equipment and laboratory by, from glove box explosion and fire, 22:2320 (BNWL-464)
PuO$_2$—UO$_2$, corrosion by steam and water at high temperatures, factors affecting, 21:1927 (NUMEC-3463-13)
PuO$_2$—UO$_2$, corrosion of defected-fuel pins of, by sodium at 700 to 1200°F, 25:39999
PuO$_2$—UO$_2$, creep at 1200 to 1700°C, effects of compressive stress on, 25:47158
PuO$_2$—UO$_2$, creep at 1300°C and 3500 psi, compressive, 24:21443 (BMI-1878, Sect.C)
PuO$_2$—UO$_2$, creep at 1410 to 1560°C, 24:23505 (BNWL-1279, pp 2.1-26)
PuO$_2$—UO$_2$, creep at 800 to 2000°C, compressive, 25:24638
PuO$_2$—UO$_2$, creep at high temperatures, effects of pressure on, 25:11485 (CEA-CONF-1670)
PuO$_2$—UO$_2$, creep at high temperatures, effects of pressure on, 25:38009(T) (ORNL-tr-2443)
PuO$_2$—UO$_2$, creep characteristics of, 25:48361
PuO$_2$—UO$_2$, creep of dense specimens of, at 1030 to 1330°C and high pressures, 25:6890 (BMI-1886, Sect. C)
PuO$_2$—UO$_2$, creep of dense, mechanisms of, 24:1099 (BMI-1868, Sect.C)
PuO$_2$—UO$_2$, creep of polycrystalline, effects of composition, density, grain size, stress, and temperature on compressive, 25:11497
PuO$_2$—UO$_2$, creep of polycrystalline, effects of various loadings at 1475 to 1560°C on, 24:12462 (BNWL-1223, pp 2.1-28)
PuO$_2$—UO$_2$, creep of, design of capsules for in-pile testing of, 23:8265(R) (BMI-1851)
PuO$_2$—UO$_2$, creep of, effects of concentration, density, stoichiometry, stress, and temperature on compressive, 25:11495
PuO$_2$—UO$_2$, creep of, effects of fission process on, (E/T), 25:44118(R) (BMI-1905)
PuO$_2$—UO$_2$, creep of, effects of microstructure, stress, temperature, and fission process on, (E), 25:28689 (BMI-1898, Sect.C)
PuO$_2$—UO$_2$, creep of, test assembly for determining in-pile, 23:39065 (BNWL-1058, pp 5.1-58)
PuO$_2$—UO$_2$, creep testing of, 25:12795(R) (BMI-1893)
PuO$_2$—UO$_2$, creep testing of, equipment for preirradiation, 23:8265(R) (BMI-1851)
PuO$_2$—UO$_2$, critical experiments using fuel elements made of, 21:23711(R) (BNWL-340)
PuO$_2$—UO$_2$, critical experiments using water moderated lattices of, analysis of power distribution for, 24:23540(T) (JAPFNR-6)
PuO$_2$—UO$_2$, critical parameters of FFTF driver fuel pins of, in water, 25:4280
PuO$_2$—UO$_2$, critical parameters of water moderated fuel assemblies of, (E/T), 24:43853 (BNWL-SA-1107)
PuO$_2$—UO$_2$, criticality and power distribution of fuels of, 24:10145(R) (PNCT-AR-68)
PuO$_2$—UO$_2$, criticality for PRCF heavy water-moderated 19-rod cluster-arranged assembly of, comparison of computer calculated and measured, 23:4358
PuO$_2$—UO$_2$, criticality measurements in various lattice configurations, 21:38672 (WCAP-3726-1)
PuO$_2$—UO$_2$, criticality measurements on fuels of mixed, containing 15 and 30 wt. percent plutonium, 25:39685
PuO$_2$—UO$_2$, criticality of aqueous systems of, 24:7191
PuO$_2$—UO$_2$, criticality of fuels of, effects of composition and configuration on, 23:17522 (Y-DR-9)
PuO$_2$—UO$_2$, criticality of heavy water-moderated lattices of, in PRCF tests, 21:8069
PuO$_2$—UO$_2$, criticality of water moderated rods, (T), 24:7198
PuO$_2$—UO$_2$, criticality of water-moderated lattices of, 22:49817(R) (EURAEC-2036)
PuO$_2$—UO$_2$, criticality parameters of unmoderated mixtures of, effects of fixed and soluble poisons on, 25:48235(R) (BNWL-1522-2)
PuO$_2$—UO$_2$, criticality studies in water moderated, description of, 23:4369
PuO$_2$—UO$_2$, criticality studies with fuel element assemblies of, 21:38481
PuO$_2$—UO$_2$, criticality tests on PRTR heavy water-moderated 19-rod cluster-arranged assembly of, analysis of interim, 23:4189
PuO$_2$—UO$_2$, crushing to predicted particle size, design and performance of equipment for, 23:4768
PuO$_2$—UO$_2$, cycle management of sodium-cooled fuel rods of, economics of, 22:25083(R) (GEAP-5541)
PuO$_2$—UO$_2$, cycle performance in European fast reactors, development program for optimum, 22:35500
PuO$_2$—UO$_2$, decanning of stainless steel-clad fuels of, method for, 23:36066 (EUR-4229(Pt.1))
PuO$_2$—UO$_2$, decladding of stainless steel-clad fuels of, thermal method for, 23:38080
PuO$_2$—UO$_2$, decladding of stainless steel-clad, using liquid metals, 23:13807(T) (ANL-Trans-707)
PuO$_2$—UO$_2$, decomposition pressures of, 22:43663
PuO$_2$—UO$_2$, densification by high-energy pneumatic impaction, 23:36191
PuO$_2$—UO$_2$, density and moisture content of fuel pellets of, 24:23506(R) (WARD-4135-4)
PuO$_2$—UO$_2$, density and porosity of sintered pellets of, prepared from sol microspheres, 24:36951 (ORNL-4520, pp 3-56)
PuO$_2$—UO$_2$, density control in mixed fuels of, 22:4860
PuO$_2$—UO$_2$, density control of, using 5 to 20 percent precursor additive, 22:7032(R) (NUMEC-3524-43)
PuO$_2$—UO$_2$, density of fuel pellets of, effects of binder on, 25:6893 (WHAN-FR-7)
PuO$_2$—UO$_2$, density of hot-pressed powders of, effects of pressing temperature on, 24:34971 (BNWL-1349-1, pp 2.1-39)
PuO$_2$—UO$_2$, density of sintered pellets of, 23:48576(R) (UNC-5244)
PuO$_2$—UO$_2$, density of sintered, effects of impurity chromium, iron, molybdenum, nickel, and silicon on, 23:51089(R) (NUMEC-3524-50)
PuO$_2$—UO$_2$, density of sintered, effects of impurity chloride, fluoride, phosphate, and sulfate ions on, 23:51089(R) (NUMEC-3524-50)
PuO$_2$—UO$_2$, design and fabrication of instrumented fuel assemblies of, for in-pile testing, 24:23540(T) (JAPFNR-6)
PuO$_2$—UO$_2$, design for 1000 MW(e) LMFBR of Type 19-9 DL stainless steel clad, fuel elements of, 23:33022 (BAW-1316(Vol.3))
PuO$_2$—UO$_2$, design of driver fuel pins for FTR using, 22:1848 (BNWL-SA-1388, pp 3.1-41)
PuO$_2$—UO$_2$, design of pellets of, for FTR fuel elements, 22:1848 (BNWL-SA-1388, pp 3.1-41)
PuO$_2$—UO$_2$, design parameters of fuel rods of, with built-in instrumentation, 25:46290(R) (GEAP-10010-28)
PuO$_2$—UO$_2$, design, fabrication, and performance of fuel pins of, with annular fuel distribution, 25:47154
PuO$_2$—UO$_2$, development and fabrication of sol-gel, for fast reactor fuel, 22:8704 (ORNL-4170, pp 124-7)
PuO$_2$—UO$_2$, development and testing for fast reactor fuel, 22:8847(R) (NUMEC-3524-37)
PuO$_2$—UO$_2$, development and testing for fast reactor fuel, review of, 22:49800
PuO$_2$—UO$_2$, development and testing for use as reactor fuel, Euratom program on, 24:39690 (EURAEC-2115)
PuO$_2$—UO$_2$, development as fast ceramic reactor fuel, 21:34108(R) (GEAP-5198)
PuO$_2$—UO$_2$, development as fast ceramic reactor fuel, 21:34109(R) (GEAP-5292)
PuO$_2$—UO$_2$, development for advanced power reactors, 21:23659
PuO$_2$—UO$_2$, development for fast reactor fuels, 21:35574 (EURFNR-314)
PuO$_2$—UO$_2$, development for reactor fuels, 22:13063(R) (EURAEC-1885)
PuO$_2$—UO$_2$, development of fuels of, for fast reactors, 23:8349
PuO$_2$—UO$_2$, development of optimum fuel mixes of, for Japanese 1000 MWe fast breeder reactor, 23:10271
PuO$_2$—UO$_2$, development of stainless steel clad fuel elements of, 25:54096(R) (GEAP-10028-38)
PuO$_2$—UO$_2$, development of vented fuels of, 21:24833 (GEAP-5433)
PuO$_2$—UO$_2$, diffusion in, 22:43663
PuO$_2$—UO$_2$, diffusion in fuels of, effects on liquid sodium-cooled fast reactor kinetics of, 22:37402 (ANL-7450, pp 75-89)
PuO$_2$—UO$_2$, diffusion in, at 2673°K, 22:31476
PuO$_2$—UO$_2$, diffusion in, computer analysis of, 24:23533 (BNWL-1279, pp 3.1-31)
PuO$_2$—UO$_2$, diffusion of fission gas from, effects of burnup and temperature on, 23:48574 (ORNL-4420, pp 71-6)
PuO$_2$—UO$_2$, diffusion of fission gases from, effects of burnup and temperature on, 24:10209

PuO_2—UO_2, diffusion of fission products from, 24:14967 (ORNL-4400, pp 103-17)
PuO_2—UO_2, diffusion of fission products from irradiated, 22:11090 (NUMEC-3432-24)
PuO_2—UO_2, diffusion of fission products in, 21:33014
PuO_2—UO_2, diffusion of fission products in irradiated fuels of, 24:34972 (BNWL-1349-1, pp 3.1-69)
PuO_2—UO_2, diffusion of gaseous fission products from irradiated, 21:33016
PuO_2—UO_2, diffusion of gases from, at 1750°C, design of equipment for determining, 24:4827 (ORNL-4440, pp 3-28)
PuO_2—UO_2, diffusion of oxygen at 1200 to 1600°C in, 23:36219(R) (GEAP-5777)
PuO_2—UO_2, diffusion of oxygen at 1200 to 1600°C in, 24:19495(R) (GEAP-12032)
PuO_2—UO_2, diffusion of oxygen at 1200 to 1600°C in, 24:19496(R) (GEAP-12047)
PuO_2—UO_2, diffusion of oxygen in hyperstoichiometric solid solutions of, effects of temperature gradients on, 25:40111
PuO_2—UO_2, diffusion of oxygen in hypostoichiometric, mechanisms for thermal, 23:34098
PuO_2—UO_2, diffusion of oxygen in solid solutions of, 25:35547(R) (GEAP-12182)
PuO_2—UO_2, diffusion of oxygen in, at thermal gradients of 900 to 1600°C, 24:46783(R) (GEAP-12099)
PuO_2—UO_2, diffusion of oxygen in, effects of temperature gradient at 1200 to 2000°C on, 23:34117
PuO_2—UO_2, diffusion of oxygen in, effects of thermal gradients on, 25:8926(R) (GEAP-12133)
PuO_2—UO_2, diffusion of plutonium in hyperstoichiometric, at 1250 to 1500°C, effects of oxygen/metal ratio on, 25:29964
PuO_2—UO_2, diffusion of plutonium in, effects of thermal gradients on, 24:6271
PuO_2—UO_2, diffusion under LMFBR conditions in, model for thermal, 25:775 (BNWL-1349-2, pp 3.1-55)
PuO_2—UO_2, dissolution by fusion with ammonium hydrogen sulfate, 21:21879
PuO_2—UO_2, dissolution by sealed-tube method, 25:26153 (LA-4622)
PuO_2—UO_2, dissolution in molten chlorides, 22:8187
PuO_2—UO_2, dissolution in nitric acid, 23:19826 (JEN-201-DMa/I-22)
PuO_2—UO_2, dissolution in nitric acid solutions, effects of sintering conditions on, 22:25460 (KFK-673)
PuO_2—UO_2, dissolution in nitric acid solutions, effects of sintering conditions on, 22:42810(T) (EURFNR-471)
PuO_2—UO_2, dissolution of clad ceramic, by liquid ammonia and mineral acids, 22:19670 (BNWL-624, pp 6.1-20)
PuO_2—UO_2, dissolution of fast reactor fuels of, in boiling nitric acid, effects of fabrication variables on, 25:15732 (WHAN-FR-34)
PuO_2—UO_2, dissolution of irradiated fuels of, by nitric acid, 22:27845 (CEA-N-816, pp 150-276)
PuO_2—UO_2, dissolution of mechanically blended nonirradiated fuels of, effects of fabrication variables on, 25:39583
PuO_2—UO_2, dissolution of stainless steel-clad, 24:267 (ORNL-4422, pp 48-106)
PuO_2—UO_2, dissolution of stainless steel-clad fuels of, by nitric acid, 23:353 (ORNL-4272, pp 34-55)
PuO_2—UO_2, dissolution of unirradiated mechanically blended, 25:39562(R) (HEDL-TME-71-55)
PuO_2—UO_2, dissolution of Zircaloy-clad, in nitric acid—nitrate—hydrochloric acid systems, 22:6382
PuO_2—UO_2, dissolution of, by ammonium fluoride—nitric acid system, 21:5987 (BNWL-204(Pt.2))
PuO_2—UO_2, dissolution rate of pellets of, 25:54713 (ORNL-4682, pp 39-79)
PuO_2—UO_2, distribution of fission products in fuel pins of, 24:175 (ANL-7575, pp 77-129)
PuO_2—UO_2, distribution of fission products, plutonium, and uranium in irradiated fuels of, radial, 23:26209 (ANL-7550, pp 35-73)
PuO_2—UO_2, distribution of plutonium in fuels of, 24:43990 (ANL-7650, pp 23-34)
PuO_2—UO_2, distribution uniformity of plutonium oxide (PuO_2) in pellets of, (E/T), 25:18140 (WHAN-SA-7)
PuO_2—UO_2, economics for heavy water-moderated reactor fuel cycles, 21:8120 (CONF-660220-3)
PuO_2—UO_2, effects of zoning of, on performance as reactor fuel, 22:6016
PuO_2—UO_2, elastic properties of polycrystalline, effects of cation homogeneity, density, and stoichiometry on, 24:25787
PuO_2—UO_2, electric conductivity of, effects of temperature on, 23:6070
PuO_2—UO_2, electric properties of hypostoichiometric, at 25 to 800°C, 25:11991
PuO_2—UO_2, electron microscopy of sols of, 24:13740 (ORNL-4466, pp 99-101)
PuO_2—UO_2, enthalpy and thermal capacity of, at high temperatures, 21:42914 (LA-DC-8620)
PuO_2—UO_2, enthalpy at 2348 to 3041°K, 25:52318(R) (ANL-7820)
PuO_2—UO_2, entropy and heat of fusion of, 21:26916
PuO_2—UO_2, erosion of defected clad fuels of, effects of fabrication and vibration on water, 21:1925 (BNWL-295)
PuO_2—UO_2, evaporation behavior of hypostoichiometric, at 1800 to 2350°K, 25:11504
PuO_2—UO_2, extrusion development, 21:31944(R) (NUMEC-3524-27)
PuO_2—UO_2, extrusion development, 21:6857(R) (NUMEC-3524-22)
PuO_2—UO_2, fabrication and coating of fuel particles of, 22:8810
PuO_2—UO_2, fabrication and irradiation testing of fuels of, 25:39227 (NP-18809, pp 1.1-33)
PuO_2—UO_2, fabrication and microstructure of fuel pellets of, 21:20550(R) (BMI-1791)
PuO_2—UO_2, fabrication and properties of nuclear fuels of, 22:8810
PuO_2—UO_2, fabrication and properties of pellets of, specifications for, 25:52429 (WCAP-4167-1, pp E.1-6)
PuO_2—UO_2, fabrication and properties of, for use as fuel in fast reactors, 21:11191 (CONF-661003-13)
PuO_2—UO_2, fabrication and synthesis of, for fast reactor fuels, 23:8141
PuO_2—UO_2, fabrication and testing fuel pellets of, 23:8274 (ORNL-4370, pp 142-50)
PuO_2—UO_2, fabrication and testing of fuel rods of, 22:34125 (EURAEC-1999)
PuO_2—UO_2, fabrication and testing of high-density fuel pellets of, 22:53463(R) (UNC-5217)
PuO_2—UO_2, fabrication and testing of, for use as reactor fuel, 22:30343(R) (EURAEC-1992)
PuO_2—UO_2, fabrication and thermal conductivity of sub-stoichiometric fuels of, 21:40698(T) (EURFNR-286)
PuO_2—UO_2, fabrication and use in basic reactor fuel physics studies, 23:18259(R) (PNCT-AR-67)
PuO_2—UO_2, fabrication by vibratory compaction, 22:8809
PuO_2—UO_2, fabrication by vibratory compaction of sol-gel spheres, 24:30018 (CONF-700502-, pp 310-22)
PuO_2—UO_2, fabrication costs by sol-gel process of, 21:44853 (ORNL-TM-1979)
PuO_2—UO_2, fabrication costs of fuels of, 21:15783 (BNWL-131-E)
PuO_2—UO_2, fabrication for FFTF fuel, criticality safety in, 22:748 (BNWL-SA-1388, pp 11.1-26)
PuO_2—UO_2, fabrication from high-exposure plutonium, shielding requirements of facility for, 24:30003 (CONF-700502-, pp 74-84)
PuO_2—UO_2, fabrication into dense pellets for testing in Treat, 23:20535 (ORNL-4350, pp 3-32)
PuO_2—UO_2, fabrication into fast breeder fuel, methods and standards for, 23:22620(R) (WARD-3791-28).
PuO_2—UO_2, fabrication into fuel elements by fusion using high-frequency currents, 21:17536(R) (EURAEC-1742)
PuO_2—UO_2, fabrication into fuel pins for fast reactors, specifications, 23:10301
PuO_2—UO_2, fabrication into fuel rods for EBR-II, 21:6857(R) (NUMEC-3524-22)
PuO_2—UO_2, fabrication into fuels for fast reactors, 21:23598(R) (EURFNR-268)
PuO_2—UO_2, fabrication into nuclear fuel rods, 22:49817(R) (EURAEC-2036)
PuO_2—UO_2, fabrication into rods for in-pile radiation testing, 22:732 (EURFNR-318)
PuO_2—UO_2, fabrication into ZPR fuel, quality control in, 23:43955 (CONF-680506-, pp 73-95)
PuO_2—UO_2, fabrication of, 23:28562 (NP-17819, Chap. 1)
PuO_2—UO_2, fabrication of, 22:11090 (NUMEC-3432-24)
PuO_2—UO_2, fabrication of angular-particle, pellet, and spheres of, for irradiation testing, equipment and method for, 24:6178 (BAW-3714-11)
PuO_2—UO_2, fabrication of clad fuel elements of, incorporating metal powder, 22:49814(P)
PuO_2—UO_2, fabrication of controlled composition fuel pellets of, 25:32776(R) (WARD-4135-13)
PuO_2—UO_2, fabrication of creep test capsules of, 24:1099 (BMI-1868, Sect.C)
PuO_2—UO_2, fabrication of creep test specimens of, method for, 25:6890 (BMI-1886, Sect. C)
PuO_2—UO_2, fabrication of dense fuel pellets of, development of methods for, 25:728(R) (WARD-4135-11)
PuO_2—UO_2, fabrication of dense fuels of, review of CNEN program for, 24:17224 (CONF-681219-3)
PuO_2—UO_2, fabrication of dense pellets of, for radiation testing, 23:18259(R) (PNCT-AR-67)
PuO_2—UO_2, fabrication of encapsulated Sphere-Pac fuels of, for irradiation testing in EBR-II, 24:36953 (ORNL-TM-2922)
PuO_2—UO_2, fabrication of FFTF pin type fuel elements, 24:7180
PuO_2—UO_2, fabrication of fuel elements for Prototype Fast Reactor, 22:14209
PuO_2—UO_2, fabrication of fuel elements of, by powder densification using sound vibrations, 23:48548
PuO_2—UO_2, fabrication of fuel elements of, description of, 22:27423
PuO_2—UO_2, fabrication of fuel elements of, methods for, 22:8816(P)
PuO_2—UO_2, fabrication of fuel pellets of, description of, 22:30200
PuO_2—UO_2, fabrication of fuel pellets of, development of process for, 24:4827 (ORNL-4440, pp 3-28)
PuO_2—UO_2, fabrication of fuel pellets of, for Rapsodie Reactor, 23:10254
PuO_2—UO_2, fabrication of fuel pins of uranium-235-enriched, 24:48870(R) (BAW-3714-18)
PuO_2—UO_2, fabrication of fuel pins of, by Sphere-Pac loading of microspheres, 25:8909 (ORNL-4600, pp 3-40)
PuO_2—UO_2, fabrication of fuel pins of, development of methods for, 25:2768 (ORNL-4570, pp 47-61)
PuO_2—UO_2, fabrication of fuel rods of, 24:43751 (BNWL-1435)
PuO_2—UO_2, fabrication of fuel rods of, for irradiation testing in EBR-II, 25:22137 (NUMEC-3524-74)
PuO_2—UO_2, fabrication of fuel rods of, for meltdown studies in TREAT, 24:25767 (ANL-7417, pp 23)
PuO_2—UO_2, fabrication of fuel rods of, Westinghouse Plutonium Fuels Development Laboratory for, 25:51675 (WCAP-4167-1, pp 5.1-58)
PuO_2—UO_2, fabrication of fuel subassembly of, process for, 23:27143 (BNWL-SA-1962)
PuO_2—UO_2, fabrication of fuels from microspheres of, 23:43385(R) (ORNL-4429)
PuO_2—UO_2, fabrication of fuels of, 25:41364(T) (EURFNR-849)
PuO_2—UO_2, fabrication of fuels of, economics of, 21:14869 (BNWL-SA-1079)
PuO_2—UO_2, fabrication of grain shaped pressed powder, description of vibration compacted, 24:5573(P)
PuO_2—UO_2, fabrication of high-density fuels of, hot pressing method for, 25:720 (BNWL-1349-2, pp 2.1-12)
PuO_2—UO_2, fabrication of microspheres of, pilot plant for, 23:3126
PuO_2—UO_2, fabrication of multiplate fuel elements of, method for simultaneous, 25:37998(P)
PuO_2—UO_2, fabrication of pellet shaped, 23:47342(R) (WARD-3791-37)
PuO_2—UO_2, fabrication of pellet shaped, problems with dimensional control in, 23:31167(R) (NUMEC-3524-62)
PuO_2—UO_2, fabrication of pellet shaped, procedures for, 23:31166(R) (NUMEC-3524-58)
PuO_2—UO_2, fabrication of pellets of, by cold pressing and sintering, 22:725 (BMI-1809, Sect.E)
PuO_2—UO_2, fabrication of pellets of, cold-press and sinter method for pilot-lot, 24:36949 (ANL-7649)
PuO_2—UO_2, fabrication of pellets of, design, fabrication, and performance of grinder for, 23:29038 (BNWL-1052)
PuO_2—UO_2, fabrication of pellets of, effects of stearate additives or lubricants on, 25:42949
PuO_2—UO_2, fabrication of pellets of, evaluation of cold press and sinter processes for, 23:27146 (RFP-1255)
PuO_2—UO_2, fabrication of pellets of, for EBR-II irradiation, 25:4889(R) (UNC-5263)
PuO_2—UO_2, fabrication of pellets of, for Southwest Experimental Fast Oxide Reactor, 21:23716 (GEAP-5285)
PuO_2—UO_2, fabrication of pellets of, quality control for, 24:18725(R) (UNC-5238)
PuO_2—UO_2, fabrication of pellets of, quality control for, 24:18724(R) (UNC-5233)
PuO_2—UO_2, fabrication of pellets of, quality control for, 24:18726(R) (UNC-5248)
PuO_2—UO_2, fabrication of pin-type fuels of, for reprocessing and performance evaluation, 25:49573 (ORNL-TM-3300, pp 3-52)
PuO_2—UO_2, fabrication of rods of, 25:48268
PuO_2—UO_2, fabrication of simulated irradiated fuel elements of, 23:51142(T) (BNWL-tr-43)
PuO_2—UO_2, fabrication of sintered flat cylindrical rings of, description of vibration-compaction, 22:37577(P)
PuO_2—UO_2, fabrication of sintered fuel pellets of, process optimization for, 24:8211(R) (NUMEC-3524-67)
PuO_2—UO_2, fabrication of sintered fuels of, containing metal borides, 24:8079(P)
PuO_2—UO_2, fabrication of sintered pellet-shaped, description of, 23:4220(R) (UNC-5224)
PuO_2—UO_2, fabrication of sintered pellets of, 23:10177
PuO_2—UO_2, fabrication of sintered pellets of, for homogeneity testing, 23:51089(R) (NUMEC-3524-50)
PuO_2—UO_2, fabrication of sintered spherical pellets of, quality control using autoradiography of, 22:27489(R) (NUMEC-3524-47)
PuO_2—UO_2, fabrication of sol-gel spheres of, into fuel elements, 23:10252
PuO_2—UO_2, fabrication of specimens of, for in-pile compressive creep testing, 24:34970 (BMI-1882, Sect.C)
PuO_2—UO_2, fabrication of sphere-pac fuels of, 25:29922 (ORNL-4630, pp 3-58)
PuO_2—UO_2, fabrication of stainless steel-clad fuel elements of, 21:40537 (ANL-7349, pp 115-33)
PuO_2—UO_2, fabrication of tubular clad elements of, using electron beam welding, 21:30298
PuO_2—UO_2, fabrication of vibratorily compacted fuel rods of uranium-238-containing, for Doppler coefficient measurements, 24:19394 (ANL-7647)
PuO_2—UO_2, fabrication of Zircaloy-2-clad, processes for, 21:28811 (AECL-2675)
PuO_2—UO_2, fabrication of, density control in, 22:8847(R) (NUMEC-3524-37)
PuO_2—UO_2, fabrication of, development of equipment and procedures for, 25:46276(R) (ORNL-TM-3456)
PuO_2—UO_2, fabrication of, effects of hammermilling and ballmilling on, 23:2032(R) (NUMEC-3524-55)
PuO_2—UO_2, fabrication of, recovery of plutonium from scraps from, 25:6398 (KFK-893)
PuO_2—UO_2, fabrication of, review on, 23:41534
PuO_2—UO_2, fabrication, processing, and testing of LMFBR fuels of, 24:2982 (ORNL-4470, pp 127-40)
PuO_2—UO_2, failure of fuel elements of, effects variable density on power transient, 24:7128
PuO_2—UO_2, failure testing of irradiated stainless steel clad and unirradiated Zircaloy-2 clad, 24:36065(R) (IN-1370)
PuO_2—UO_2, fast fission factor for water-cooled graphite-moderated lattice of, calculation of, 22:42164(R) (BNWL-775)
PuO_2—UO_2, fission and absorption rate measurements in water-moderated fuel elements of, temperature dependence of, 21:38713
PuO_2—UO_2, fission gas bubbles in fuels of, behavior of, 24:7310
PuO_2—UO_2, fission gas release and unrestrained swelling of irradiated, basic instrumented capsule for measurement of, 25:32808
PuO_2—UO_2, fission gas release from irradiated vibrationally compacted fuels of, 23:47339(R) (BNWL-1106)
PuO_2—UO_2, fission gas release from, during irradiation to high burnup at 800 to 1550°C, diffusion model for, 24:42292
PuO_2—UO_2, fission gas release from, effects of burnup, fission density, and temperature on, 23:25021 (ORNL-4390, pp 58-71)
PuO_2—UO_2, fission product aggregates in, composition of, 22:17152
PuO_2—UO_2, fission product content of irradiated fuels of, relations with fuel properties, 24:10145(R) (PNCT-AR-68)
PuO_2—UO_2, fission product distribution in, 25:39470(R) (ANL-7750)

PuO_2—UO_2, fission product distribution in Incoloy 800-clad and Type 316 and Type 347 stainless steel-clad, analysis of, 22:50732(R) (GEAP-5631)
PuO_2—UO_2, fission product distribution in pellets of, effects of stoichiometry on, 21:46027(R) (NUMEC-3432-35)
PuO_2—UO_2, fission product distribution in pin type fuel elements of, radiation effects on molybdenum, 25:18247 (WHAN-SA-96)
PuO_2—UO_2, fission product distribution in water cooled fuel rods of, (E/T), 25:41282
PuO_2—UO_2, fission product release from Type 316 and Type 347 stainless steel-clad sodium-bonded, analysis of, 22:50732(R) (GEAP-5631)
PuO_2—UO_2, fission product vapor pressures over fast neutron irradiated, (E/T), 25:44206 (CEA-R-4181)
PuO_2—UO_2, fission products release from, effects of temperature and burnup on, (E), 25:41620
PuO_2—UO_2, fluorination by bromine pentafluoride or chlorine trifluoride, 22:6384
PuO_2—UO_2, fluorination by bromine pentafluoride or chlorine trifluoride, 22:8186
PuO_2—UO_2, fluorination by chlorine fluorides, fluidized-bed, 22:8169(R) (EURAEC-1934)
PuO_2—UO_2, fluorination by chlorine trifluoride, 22:40156(R) (EURAEC-2031)
PuO_2—UO_2, fluorination of fission product containing, 21:31898(R) (ANL-7329)
PuO_2—UO_2, fluorination of fission product-containing fuels of, 24:50439(R) (ANL-7675)
PuO_2—UO_2, fluorination of fuels of, using bromine pentafluoride, 22:21078
PuO_2—UO_2, fluorination of irradiated, 22:51045 (ANL-7425, pp 42-93)
PuO_2—UO_2, fluorination of irradiated, fluidized-bed process for, 23:49908
PuO_2—UO_2, fluorination of irradiated, fluidized-bed process for, 21:25935(R) (ANL-7225)
PuO_2—UO_2, fluorination of irradiated, minimization of retention of plutonium and uranium on alumina bed in, 22:40150 (ANL-7372)
PuO_2—UO_2, fluorination of irradiated, techniques of fluidized-bed, 22:21172
PuO_2—UO_2, fluorination of spent fuels of, using bromine pentafluoride or fluorine in fluidized bed, 24:174 (ANL-7575, pp 47-76)
PuO_2—UO_2, fluorination using bromine pentafluoride, 21:36073(R) (ANL-7350)
PuO_2—UO_2, fluorination with fluorine, chlorine trifluoride, or bromine trifluoride, fluidized-bed, 22:150
PuO_2—UO_2, fuel assemblies of, thermal properties in Belgian Reactor-2, 21:46843(R) (EURAEC-1884)
PuO_2—UO_2, fuel burnup in BR-2, analysis during 1967 of, 23:2069 (NP-17579, pp 1.1-60)
PuO_2—UO_2, fuel burnup in EBR-2 of, analysis of, 23:4236
PuO_2—UO_2, fuel burnup of vibrationally compacted elements for EBWR, 21:38509
PuO_2—UO_2, fuel burnup of, METHUSELAH—AIMAZ calculation of SGHW-type reactor, 22:30319
PuO_2—UO_2, fuel burnup testing in GETR, 21:38643
PuO_2—UO_2, fuel characteristics of, description of, 23:2130 (BNWL-SA-2065)
PuO_2—UO_2, fuel cladding failure of, analysis of Incoloy 800 and Hastelloy, 22:25083(R) (GEAP-5541)
PuO_2—UO_2, fuel cycle management of, comparison of zoned and unzoned core, 22:42164(R) (BNWL-775)
PuO_2—UO_2, fuel development for LMFBR, description of program for, 23:2035 (WASH-1107)
PuO_2—UO_2, fuel development program for fast reactors during July to September 1968, 23:31166(R) (NUMEC-3524-58)
PuO_2—UO_2, fuel development program for fast reactors during April to June 1968 for, 23:2032(R) (NUMEC-3524-55)
PuO_2—UO_2, fuel development program for fast reactors during October to December 1968, 23:31167(R) (NUMEC-3524-62)
PuO_2—UO_2, fuel element cluster of, physics measurement analysis of gas-cooled reactor two- and three-ring, (E/T), 22:22762
PuO_2—UO_2, fuel element conceptual design development for FFTF, literature survey discussion of, 22:50795 (BNWL-645)
PuO_2—UO_2, fuel element design for Fast Flux Test Facility, 21:38697
PuO_2—UO_2, fuel element failure of zero-burnup, analysis of TREAT simulated, 23:4224
PuO_2—UO_2, fuel element of stainless steel- and Hastelloy X-clad sintered, fabrication of gas-cooled fast breeder power reactor vented-type, 23:17188(R) (GA-8107)
PuO_2—UO_2, fuel element of stainless steel-clad, burnup performance of FFTF, 23:4325
PuO_2—UO_2, fuel element of Type 316 stainless steel-clad, burnup performance of Rapsodie, 23:4326
PuO_2—UO_2, fuel element physics measurements for 100 MW(e) SGHWR, use of JUNO for, (E/T), 23:7391
PuO_2—UO_2, fuel element test assembly of vibrocompacted, description of Halden Boiling Reactor, 23:9177(R) (HPR-103)
PuO_2—UO_2, fuel element testing for Rapsodie reactor, 21:19392(T) (EURFNR-209-F)
PuO_2—UO_2, fuel elements in BR-2 reactor of, burnup performance of, 23:9200 (TID-24855)
PuO_2—UO_2, fuel elements in FR-2 reactor of, burnup performance of, 23:9200 (TID-24855)
PuO_2—UO_2, fuel elements in Hector Reactor, effects of plutonium 240 content on calculated and measured reactivity perturbations in, 23:21508 (AEEW-R-499)
PuO_2—UO_2, fuel elements of mixed oxide, development of EBWR, 21:44822 (BNWL-SA-1199)
PuO_2—UO_2, fuel elements of Type 19-9 DL stainless steel clad, design for 1000 MW(e) LMFBR of, 23:33021 (BAW-1316(Vol.2))
PuO_2—UO_2, fuel elements of Type 304 stainless steel clad, design for 1000 MW(e) LMFBR of, 23:33023 (BAW-1316(Vol.4))
PuO_2—UO_2, fuel elements of Type 304 stainless steel clad, design for 1000 MW(e) LMFBR of, 23:33024 (BAW-1316(Vol.5))
PuO_2—UO_2, fuel elements of Zircaloy 2 clad, burnup of HBWR, 24:1953(R) (HPR-112)
PuO_2—UO_2, fuel elements of Zircaloy 2-clad, burnup performance of HBWR, 22:48646 (HPR-102)
PuO_2—UO_2, fuel elements of, analysis of burnup in ingot from EBR-2, 22:32817
PuO_2—UO_2, fuel elements of, analysis of burnup of Halden Boiling Reactor, 22:35464(R) (HPR-99)
PuO_2—UO_2, fuel elements of, design parameters for optimum fast breeder power reactor, (E/T), 22:39810
PuO_2—UO_2, fuel elements of, effects of burnup on gas pressure buildup in, 22:32814
PuO_2—UO_2, fuel elements of, effects of specific power and burnup on defect behavior of vibrationally compacted, 23:31236(R) (BNWL-1039)
PuO_2—UO_2, fuel elements of, evaluation for irradiation testing in PRTR, 21:44935 (BNWL-SA-1204)
PuO_2—UO_2, fuel elements of, performance during burnup at high-power density in PRTR of Zircaloy-clad pellet-type fuel elements of, 23:13502 (BNWL-SA-1979)
PuO_2—UO_2, fuel elements of, radiation effects of PRTR exposure on reactivity of, 23:6020(R) (BNWL-887)
PuO_2—UO_2, fuel elements of, radiation effects on sintered vented-type, fast neutron, 23:17188(R) (GA-8107)
PuO_2—UO_2, fuel elements, description of vibratory compaction fabrication for, 23:7429(R) (EURAEC-2065)
PuO_2—UO_2, fuel fabrication for SEFOR hexagonal channel, description of pellet-type, 22:44889(R) (GEAP-5629)
PuO_2—UO_2, fuel for fast reactor of, fabrication of pellet-type, 23:2069 (NP-17579, pp 1.1-60)
PuO_2—UO_2, fuel loading for PRCF reactor of, physics measurements for critical, (E/T), 22:32743(R) (BNWL-739)
PuO_2—UO_2, fuel meltdown simulation of Fast Test Reactor, use of MARS computer code for effects of configuration and enrichment on, 22:37554 (APDA-209)
PuO_2—UO_2, fuel migration and segregation in, Doppler coefficient measurements on, 21:46837 (ANL-7325, pp 136-78)
PuO_2—UO_2, fuel of pellet-type, fabrication of SEFOR, 23:7399(R) (GEAP-5673)
PuO_2—UO_2, fuel of, fabrication by vibrational compaction process, 21:44960 (BNWL-CC-319)
PuO_2—UO_2, fuel pellet production from powdered, review of processes for, 23:10251
PuO_2—UO_2, fuel performance in fast reactors, analysis of, 22:48657 (TID-24680)
PuO_2—UO_2, fuel pin center temperature measurement, thermocouple configuration for DFR and DMTR, 22:44811 (CONF-660521-6)
PuO_2—UO_2, fuel pins of, electron microprobe analysis of irradiated, 22:12006(R) (ANL-7399)
PuO_2—UO_2, fuel rod fabrication costs for boiling and pressurized-water reactors, RODCOST computer program for, 22:44809 (BNWL-789)
PuO_2—UO_2, fuel rod radiation testing for Saxton Power Reactor, 21:38510
PuO_2—UO_2, fuel rods for EBWR, design of, 21:44821 (BNWL-SA-1139(Rev.A))
PuO_2—UO_2, fuel rods of, physics calculations for water moderated, 21:35702 (BNWL-CC-1205)
PuO_2—UO_2, fuel system for fast reactor, calculation of optimum economic, (T), 22:46961
PuO_2—UO_2, fuel temperature profile of powder and pellet, calculation of PRTR, 23:7396 (BNWL-CC-604)
PuO_2—UO_2, fuels elements of, physics measurements on water-moderated, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
PuO_2—UO_2, fuels for 1000 MW(e) GE-LMFBR, economics of fabrication of, 23:2033 (ORNL-TM-2344)
PuO_2—UO_2, fuels for fast reactors of Inconel 625-clad, effects of stoichiometry on burnup in, 23:4235
PuO_2—UO_2, fuels for FTR of, calculation of swelling in pellet-type, 23:15673(R) (BNWL-541)
PuO_2—UO_2, fuels for LMFBR-type reactors, development of optimum, 23:4237
PuO_2—UO_2, fuels of, economic aspects of efficiency of, 22:5914 (AECL-2944)
PuO_2—UO_2, fuels of, effects of specific power and burnup on defect behavior of vibrationally compacted, 23:15738(R) (BNWL-963)
PuO_2—UO_2, fuels of, fabrication of FTR and Nuclear Proof Test Facility, 22:30299 (BNWL-SA-1750)
PuO_2—UO_2, fuels of, radiation effects on mechanical properties of, neutron, 23:17188(R) (GA-8107)
PuO_2—UO_2, gamma dose rates of, surface, 21:19893 (BNWL-339)
PuO_2—UO_2, gas bubbles in sintered, thermally induced migration trail formation by, 23:8179
PuO_2—UO_2, gas content of fuels of, control methods for efficient high-temperature operation, 24:36951 (ORNL-4520, pp 3-56)
PuO_2—UO_2, grain structure of irradiation test fuels of, measurements of, 25:32823 (HEDL-TME-71-45)
PuO_2—UO_2, grinding to produce controlled-size particles for fuel elements, mill for, 22:43627 (ANL-7299, pp 14-113)
PuO_2—UO_2, handling of fuel elements of, radiation protection requirements during, 25:4314
PuO_2—UO_2, handling specimens of, method using naphthalene coating for out-of-glove-box, 23:20557 (ORNL-4350, pp 67-78)
PuO_2—UO_2, heat of fission of, analysis of, 22:50841(R) (LA-3993)
PuO_2—UO_2, heat transfer from clad fuel elements of, effects of xenon cladding-to-fuel gap filler on, 24:5806
PuO_2—UO_2, heat transfer from clad fuels of, effects of clad-fuel gap on rates of, 24:34972 (BNWL-1349-1, pp 3.1-69)
PuO_2—UO_2, heat transfer in flowing liquid sodium, 21:24833 (GEAP-5433)
PuO_2—UO_2, heat transfer in heterogeneous fuel elements of, effects of transients on, (T), 24:33331
PuO_2—UO_2, heat transfer in Zircaloy-4 clad rods of, 25:54104 (WCAP-4167-1, pp 4.1-35)
PuO_2—UO_2, homogeneity of 2 and 3 wt percent plutonium dioxide additive, (E), 22:7032(R) (NUMEC-3524-43)
PuO_2—UO_2, homogeneity of, mathematical model for describing, 25:11489 (WHAN-FR-20)
PuO_2—UO_2, impurities in, effects of plutonium oxide (PuO_2) ratio on cadmium, boron, and silicon, 23:2032(R) (NUMEC-3524-55)
PuO_2—UO_2, inhomogeneity in, effects on fast reactor reactivity transients of, 24:7078
PuO_2—UO_2, inspection of fuel elements of, high-resolution neutron radiographic method for, 25:4254
PuO_2—UO_2, inspection of irradiated fuels of, in hot cells, alpha and beta—gamma autoradiographic methods for, 25:34837
PuO_2—UO_2, integrity of stainless steel clad, effects of bubble size in sodium bonding on, 22:4910
PuO_2—UO_2, internal friction and tensile properties of, at 25 to 1300°C, 24:14891(T) (ANL-Trans-803)
PuO_2—UO_2, irradiation of Zircaloy-2 clad fuels of, internal gas pressure buildup during, (E/T), 24:46051
PuO_2—UO_2, irradiation performance of PRTR fuels of, (E), 24:16317(R) (BNWL-1289)
PuO_2—UO_2, irradiation testing in liquid sodium cooled fast reactor environment, 25:12795(R) (BMI-1893)
PuO_2—UO_2, irradiation testing of coated particle fuels of, 25:48260(R) (ORNL-4637)
PuO_2—UO_2, irradiation testing of defected fuels of, power generation and heat transfer calculations for, 24:16317(R) (BNWL-1289)
PuO_2—UO_2, irradiation testing of FTR fuel pins of, in EBR-2, 22:42358 (BNWL-650)
PuO_2—UO_2, irradiation testing of FTR fuels of, 24:16235(R) (BNWL-1275)
PuO_2—UO_2, irradiation testing of fuel particles of, 25:48235(R) (BNWL-1522-2)
PuO_2—UO_2, irradiation testing of fuel rods of, 21:13946(R) (ANL-7279)
PuO_2—UO_2, irradiation testing of fuel rods of, 21:13947(R) (ANL-7286)
PuO_2—UO_2, irradiation testing of fuels of, 23:52351(T) (JPRS-48331, pp 481-94)
PuO_2—UO_2, irradiation testing of fuels of, 25:41364(T) (EURFNR-849)
PuO_2—UO_2, irradiation testing of gas cooled fast breeder fuels of, 25:51083(R) (GA-10517)
PuO_2—UO_2, irradiation testing of gas-cooled fast breeder reactor fuel rods of, 23:15640(R) (GA-8895)
PuO_2—UO_2, irradiation testing of particulate fields of, 22:47110(R) (BAW-3714-7)
PuO_2—UO_2, irradiation testing of recycle fuels of, 25:18098(R) (BNWL-1522-1)
PuO_2—UO_2, kinetics for trisected FTR core of, calculation of optimum, 22:42164(R) (BNWL-775)
PuO_2—UO_2, krypton-85 distribution in irradiated, laser—microscope study of, 25:32805
PuO_2—UO_2, mechanical and physical properties of irradiated, effects of stoichiometry on, 21:46964(R) (BNWL-CC-821)
PuO_2—UO_2, mechanical and physical properties of, effects of stoichiometry on, 21:46963(R) (BNWL-CC-694)
PuO_2—UO_2, mechanical mixing and precipitation of, for fabrication into fuels, 22:7048
PuO_2—UO_2, mechanical properties of, 23:28562 (NP-17819, Chap. 1)
PuO_2—UO_2, mechanical properties of fast reactor fuels of, 23:37506(R) (GEAP-5677)
PuO_2—UO_2, mechanical properties of nonstoichiometric, at 25 to 1300°C, 25:2794(T) (ORNL-tr-2388)
PuO_2—UO_2, mechanical properties of nonstoichiometric, at 25 to 1300°C, 24:36964 (CEA-R-3953)
PuO_2—UO_2, mechanical properties of, effects of burnup on, 25:37017 (CONF-710414-1)
PuO_2—UO_2, mechanical properties of, evaluation of, 23:11351 (BNWL-919, pp 5.1-17)
PuO_2—UO_2, meltdown in fast breeders, effects on reactor reactivity, 21:12178
PuO_2—UO_2, meltdown in fast breeders, effects on reactor reactivity, 21:12178
PuO_2—UO_2, meltdown of vibrationally compacted, relations with reactor power limit, 22:19669 (BNWL-624, pp 2.1-32)
PuO_2—UO_2, melting behavior of nonstoichiometric, (E/T), 22:11044 (GEAP-5358)
PuO_2—UO_2, melting behavior of solid solutions of, 22:43648(R) (GEAP-5634)
PuO_2—UO_2, melting by passing electric current through pellets of, method and apparatus for, 22:744(P)
PuO_2—UO_2, melting failure of, effects of power transients on fuel element, 22:50732(R) (GEAP-5631)
PuO_2—UO_2, melting heat rating of, (E), 25:60243
PuO_2—UO_2, melting of, 22:8837
PuO_2—UO_2, melting of fine powders of, method for, 21:43671(P)
PuO_2—UO_2, melting of FTR stainless steel clad rod type fuel elements, 24:7126
PuO_2—UO_2, melting of solid solutions of, phase segregation in, 23:12411(R) (GEAP-5672)
PuO_2—UO_2, melting of, method for, 23:35112(P)
PuO_2—UO_2, melting point of, differential thermal analysis equipment for determination of, 25:51672 (LA-DC-12753)
PuO_2—UO_2, melting point of, effects of burnup on, 22:33172

PuO_2—UO_2, melting point of, nonstoichiometric effects on, 22:33171
PuO_2—UO_2, melting point of, radiation effects on, 22:32970(R) (GEAP-5584)
PuO_2—UO_2, melting under TREAT conditions, calculations for, 23:48502 (ORNL-4420, pp 3-39)
PuO_2—UO_2, metal/oxygen ratio in nonstoichiometric, weight change method for determination of, 25:22179
PuO_2—UO_2, metal-to-oxygen ratios in nonstoichiometric, 23:39065 (BNWL-1058, pp 5.1-58)
PuO_2—UO_2, metallic impurities in, spectrographic analysis of, 21:43658(R) (NUMEC-3524-31)
PuO_2—UO_2, microstructure and properties at 2 percent burnup, 23:32070 (CEA-R-3795)
PuO_2—UO_2, microstructure and properties of, at 2 percent burnup, 23:51142(T) (BNWL-tr-43)
PuO_2—UO_2, microstructure of, 22:47110(R) (BAW-3714-7)
PuO_2—UO_2, microstructure of compacted, 22:8847(R) (NUMEC-3524-37)
PuO_2—UO_2, microstructure of fast reactor fuel pellets of, autoradiographic study of, 23:36252
PuO_2—UO_2, microstructure of fuel pellets of, for fast flux irradiation studies, 25:58397
PuO_2—UO_2, microstructure of fuels of, effects of thermal neuron flux on, (E), 25:5993
PuO_2—UO_2, microstructure of fuels of, etching methods for electron microscopic studies, 25:11474(R) (BNWL-842)
PuO_2—UO_2, microstructure of irradiated fuels of, 21:24833 (GEAP-5433)
PuO_2—UO_2, microstructure of microspheres of, 25:8909 (ORNL-4600, pp 3-40)
PuO_2—UO_2, microstructure of pellets of, 23:39065 (BNWL-1058, pp 5.1-58)
PuO_2—UO_2, microstructure of pellets of, method for studying, 23:2366(R) (BAW-3714-8)
PuO_2—UO_2, microstructure of precipitated, correlation with thermal diffusivity, 23:46121 (BNWL-1144, pp 5.1-40)
PuO_2—UO_2, microstructure of simulated-irradiated, incorporating inactive fission products, 24:10168
PuO_2—UO_2, microstructure of sintered fuel pellets of, for gas-cooled fast reactors, 21:32951(R) (BMI-1798)
PuO_2—UO_2, microstructure of sintered fuel pellets of, 24:8211(R) (NUMEC-3524-67)
PuO_2—UO_2, microstructure of sintered rods of, prepared for preirradiation creep testing, 23:39038 (BMI-1862, Sect.C)
PuO_2—UO_2, mobility of powdered, in vibro-compacted fuel elements, 23:48548
PuO_2—UO_2, neutron buckling measurements in heavy water moderated exponential piles fueled with, effects of coolants on, 22:33027
PuO_2—UO_2, neutron distribution in heavy water-moderated fuel rods of, foil activation analysis of thermal, 22:25082 (DP-1122)
PuO_2—UO_2, neutron multiplication factor measurements in water moderated fuel elements of, 21:38722
PuO_2—UO_2, neutron thermalization calculations for lattices of, results of, 21:23711(R) (BNWL-340)
PuO_2—UO_2, nonstoichiometric effects on microstructure of irradiated, analysis of, 23:4241
PuO_2—UO_2, oxidation and sintering of, role of oxygen-metal ratio in, 22:7036
PuO_2—UO_2, oxidation of sintered pellets of, x-ray study of $(U,Pu)_3O_8$ from, 24:42274
PuO_2—UO_2, oxygen activity in fuels of, at 1700 to 2250°C, 25:8926(R) (GEAP-12133)
PuO_2—UO_2, oxygen-to-metal ratio determination in, 21:40694 (ANL-7349, pp 92-109)
PuO_2—UO_2, oxygen-to-metal ratio in, chromatographic method for determining, 25:720 (BNWL-1349-2, pp 2.1-12)
PuO_2—UO_2, oxygen-to-metal ratio in, precision and source of variation in, 25:8909 (ORNL-4600, pp 3-40)
PuO_2—UO_2, oxygen-to-metal ratio in, statistical method for determining sources of variation in, 25:35568 (ORNL-TM-3362)
PuO_2—UO_2, particle size distribution in sintered powders of, 22:737
PuO_2—UO_2, performance and properties of fuels of, effects of density and stoichiometry on, 24:10204
PuO_2—UO_2, performance and testing of fuels of, 24:10167
PuO_2—UO_2, performance as breeder reactor fuels, 21:7941
PuO_2—UO_2, performance as fuel in Saxton Power Reactor, 23:10303
PuO_2—UO_2, performance at 50,000 MWd/t burnup, 22:4913
PuO_2—UO_2, performance in power reactors, 22:19669 (BNWL-624, pp 2.1-32)
PuO_2—UO_2, performance in reactor fuel pins, COMETHE II code for thermal and mechanical, (E/T), 24:46134
PuO_2—UO_2, performance in thermal reactor fuel cycles, (T), 24:33311
PuO_2—UO_2, performance of clad fuels of, in pressurized water reactors, 21:12180
PuO_2—UO_2, performance of fuel elements of stainless steel clad, effects of fuel and cladding compatibility on, 24:13551(R) (GA-9811)
PuO_2—UO_2, performance of fuel pins of stainless steel-clad, effects of power cycling on, 25:8835 (ORNL-4600, pp 57-64)
PuO_2—UO_2, performance of fuels of, at 120,000 MWd/t burnup, 22:4914
PuO_2—UO_2, performance of fuels of, development of prediction methods for, 25:2789 (ORNL-4570, pp 68-75)
PuO_2—UO_2, performance of fuels of, effects of density and stoichiometry on, (E), 23:52484 (CEA-CONF-1296)
PuO_2—UO_2, performance of fuels of, effects of preparation processes on, 24:17393 (ORNL-4480, pp 3-35)
PuO_2—UO_2, performance of fuels of, relations with properties, 25:22167
PuO_2—UO_2, performance of pin shaped fuel elements of, FMODEL computer program for mechanical and thermal, 24:7121
PuO_2—UO_2, performance of reactor fuels of, 25:54094 (A/CONF.49/P-821)
PuO_2—UO_2, performance of stainless steel clad fast reactor fuels of, review of, 25:15367 (WHAN-SA-51)
PuO_2—UO_2, performance of stainless steel-clad fuel pellets of, computer analysis of, 24:36945 (ORNL-4520, pp 85-96)
PuO_2—UO_2, performance of Type 304 and Type 347 stainless steel-clad mixed, metallographic analysis of 27 to 36 kW/ft power level, 22:50731 (GEAP-5556)
PuO_2—UO_2, performance of Types 304 and 316 stainless steel clad fuel pins of, calculation of in-pile, 25:48262 (ORNL-TM-3360)
PuO_2—UO_2, performance of vibratorily compacted fuel rods of, 21:38476
PuO_2—UO_2, performance potential as fast breeder reactor fuel, 22:30123 (BNWL-SA-1550)
PuO_2—UO_2, phase diagrams, 21:26916
PuO_2—UO_2, phase diagrams, liquid—solid, 21:26919
PuO_2—UO_2, phase studies, 22:21650
PuO_2—UO_2, phase studies at room temperature, 21:32995
PuO_2—UO_2, phase studies of, 22:52257 (ANL-7425, pp 94-129)
PuO_2—UO_2, phase studies of sintered, 21:46964(R) (BNWL-CC-821)
PuO_2—UO_2, phase studies of substoichiometric, 21:28837 (KFK-543)
PuO_2—UO_2, physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
PuO_2—UO_2, physical properties of fast reactor fuels of, 23:37507(R) (GEAP-5700)
PuO_2—UO_2, physical properties of fast reactor fuels of, 23:37506(R) (GEAP-5677)
PuO_2—UO_2, physical properties of fuels of, 24:16190(R) (GEAP-10028-32)
PuO_2—UO_2, physical properties of fuels of, 23:43115(R) (GEAP-5753)
PuO_2—UO_2, physical properties of fuels of, 23:43116(R) (GEAP-10028)
PuO_2—UO_2, physical properties of fuels of, 24:4058(R) (GEAP-10028-31)
PuO_2—UO_2, physical properties of solid, measurement of high temperature, 25:57069(R) (ANL-7800)
PuO_2—UO_2, physics behavior in water reactors, calculations of, 21:5603 (BNWL-305)
PuO_2—UO_2, physics calculations of fast plutonia—urania reactor core, 21:23711(R) (BNWL-340)
PuO_2—UO_2, physics measurements for PCTR fuel assemblies of, analysis of, 23:6020(R) (BNWL-887)
PuO_2—UO_2, physics measurements for uniform rod clusters of, 22:18471
PuO_2—UO_2, physics parameters for fuels of vanadium-clad, and graphite-coated, for 1000 MW(e) high-temperature gas-cooled fast breeder reactors, 23:11238 (EURFNR-580)
PuO_2—UO_2, physics parameters for Prototype Fast Reactor fuel of, analysis of, 22:18512
PuO_2—UO_2, physics parameters for water-moderated square-pitch rod-type PCTR fuel elements of, (E/T), 23:13539(R) (BNWL-921)
PuO_2—UO_2, physics parameters of core and blanket of fast breeder reactor, calculation of, (T), 22:47052
PuO_2—UO_2, plasticity and swelling of fuels of, effects of burnup, high neutron fluence and temperature on, (E/T), 24:41017
PuO_2—UO_2, plutonium dioxide homogeneity in fuel pellets of, scanning electron microprobe analysis of, 25:11489 (WHAN-FR-20)
PuO_2—UO_2, plutonium dioxide homogeneity in fuel pellets of, scanning electron microprobe evaluation of, 25:4876
PuO_2—UO_2, plutonium distribution in irradiated and unirradiated fuels of, α spectrometry of, 24:4841
PuO_2—UO_2, plutonium distribution in microspheres of, alpha autoradiographic method for determination of, 23:44007
PuO_2—UO_2, plutonium distribution in molten, 22:8837
PuO_2—UO_2, plutonium distribution in pellets of, effects of annealing in thermal gradients on, 25:16597 (ANL-7703)
PuO_2—UO_2, plutonium distribution in, effects of composition and thermal gradients on, 25:52463
PuO_2—UO_2, plutonium homogeneity in, determination by autoradiography, 22:8847(R) (NUMEC-3524-37)
PuO_2—UO_2, plutonium segregation in, neutron radiographic method for detection of, 25:57698
PuO_2—UO_2, porosity and density of irradiated sintered powder of, effects of organic additives on, 22:27488(R) (NUMEC-3524-39)
PuO_2—UO_2, porosity of test fuels of, measurements of, 25:32823 (HEDL-TME-71-45)
PuO_2—UO_2, post-irradiation metallography of Zircaloy-4 clad fuels of, 25:48264(R) (WCAP-3385-27)
PuO_2—UO_2, power distribution in assemblies of, accuracy of calculation methods for, 23:4342
PuO_2—UO_2, power performance of, analysis of optimum, 22:46928 (WASH-1106)
PuO_2—UO_2, power transient effects on discrete plutonium oxide (PuO_2) particles in pellet fuels of, (E), 25:5994
PuO_2—UO_2, power transient effects on discrete plutonium oxide (PuO_2) particles in fuels of, (E), 25:5995
PuO_2—UO_2, power transient effects on fuels of, (E), 25:5996
PuO_2—UO_2, preparation and high temperature properties of, 22:27487(R) (LA-3880)
PuO_2—UO_2, preparation and high-temperature properties of, 22:43629(R) (LA-3933)
PuO_2—UO_2, preparation and properties at 1600°C, 21:32979
PuO_2—UO_2, preparation and properties of mixed, review of, 22:49800
PuO_2—UO_2, preparation and properties of pellets and powders of, method for evaluation of, 24:46773(R) (WARD-4135-8)
PuO_2—UO_2, preparation and properties of, for use as fast reactor fuel, 21:10162
PuO_2—UO_2, preparation by gel-addition process, 21:28812(R) (BAW-3714-1)
PuO_2—UO_2, preparation by sol-gel process, 22:47110(R) (BAW-3714-7)
PuO_2—UO_2, preparation by sol-gel process, 25:55592 (ORNL-4682, pp 144-59)
PuO_2—UO_2, preparation by Sphere-Pac and pelletization of sol-gel particles, 24:30019 (CONF-700502-, pp 323-41)
PuO_2—UO_2, preparation for ceramography, metallographic method for, 24:3007
PuO_2—UO_2, preparation methods for, effects on ceramic properties of, 24:19481 (ARH-1153)
PuO_2—UO_2, preparation of calibration standards of, for use in plutonium passive analysis system, 25:6515(R) (BHO-66-1)
PuO_2—UO_2, preparation of clad fuel pins of, process development for, 25:37993 (A/CONF.49/P-63)
PuO_2—UO_2, preparation of controlled-enrichment irradiation specimens of, sol-gel process for, 23:36217(R) (BAW-3714-13)
PuO_2—UO_2, preparation of dense microspheres of, methods for, 25:8909 (ORNL-4600, pp 3-40)
PuO_2—UO_2, preparation of dense pellets of, for irradiation testing, 24:17393 (ORNL-4480, pp 3-35)
PuO_2—UO_2, preparation of enriched fast reactor fuels of, sol-gel addition process for, 24:39683(R) (BAW-3714-17)
PuO_2—UO_2, preparation of enriched fuels of, method for safe and economical, 25:55597(P)
PuO_2—UO_2, preparation of enriched fuels of, method for, 25:27276(P)
PuO_2—UO_2, preparation of enriched, by sol-gel process, 23:32047(R) (BAW-3714-12)
PuO_2—UO_2, preparation of fast reactor fuels of, by sol-gel process, research progress on, 25:47151(R) (BAW-3714-21)
PuO_2—UO_2, preparation of fast reactor fuels of, using gel-addition process, 22:19608(R) (BAW-3714-5)
PuO_2—UO_2, preparation of filterable precipitate of, 21:520(P)
PuO_2—UO_2, preparation of fuel elements of, health physics problems during, 21:46971
PuO_2—UO_2, preparation of fuel elements of, review of methods for, 24:2976
PuO_2—UO_2, preparation of fuel microspheres of, process for, 24:36958(P)
PuO_2—UO_2, preparation of fuel-grade mixtures of, for in-pile testing, 24:23540(T) (JAPFNR-6)
PuO_2—UO_2, preparation of fuels from reprocessed, CNEN and SNAM methods for, 25:58351 (RT/ING-(70)30)
PuO_2—UO_2, preparation of fuels of, by sol-gel method, 24:36950(R) (EIR-171)
PuO_2—UO_2, preparation of fuels of, by sol-gel process, 24:8168 (BAW-3714-10)
PuO_2—UO_2, preparation of fuels of, compacting and sintering method for, 25:49523(P)
PuO_2—UO_2, preparation of fuels of, research progress on sol-gel process for, 25:37995(R) (BAW-3714-20)
PuO_2—UO_2, preparation of fuels of, review on, 24:44770
PuO_2—UO_2, preparation of fuels of, sol-gel process for, 24:10145(R) (PNCT-AR-68)
PuO_2—UO_2, preparation of high-density pellets of, powder compaction method for, 24:23509 (EUR-4389)
PuO_2—UO_2, preparation of high-density, high-frequency melting method for, 25:29935
PuO_2—UO_2, preparation of high-density, method for, 24:39724(R) (BMI-1884)
PuO_2—UO_2, preparation of irradiated thin disks of, for electron microscopy, 22:43670
PuO_2—UO_2, preparation of low oxygen-to-metal ratio pellets, 21:38754
PuO_2—UO_2, preparation of low-density fuel pellets and shards of, flowsheets for, 25:16562 (NP-18650)
PuO_2—UO_2, preparation of metal-clad reactor fuels of, cost estimates for, 24:30016 (CONF-700502-, pp 264-80)
PuO_2—UO_2, preparation of metallographic specimens of, method for, 24:48871 (CONF-690954-, pp 192-219)
PuO_2—UO_2, preparation of microspheres of, 23:359 (ORNL-4272, pp 142-60)
PuO_2—UO_2, preparation of microspheres of, 25:52432(P)
PuO_2—UO_2, preparation of microspheres of, 23:30121
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 22:26073 (ORNL-TM-2205)
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 23:35279
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 22:43643
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 25:2774 (ORNL-4572, pp 149-69)
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 24:1068 (ORNL-4422, pp 203-29)
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 24:27031(R) (BAW-3714-16)
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, 23:20535 (ORNL-4350, pp 3-32)
PuO_2—UO_2, preparation of microspheres of, by sol-gel process, developments in, 21:43652 (ORNL-TM-1980)
PuO_2—UO_2, preparation of microspheres of, equipment and method for sol-gel, 21:1429 (ORNL-3995, pp 29-35)
PuO_2—UO_2, preparation of microspheres of, equipment design for, 21:22078
PuO_2—UO_2, preparation of microspheres of, flowsheets for, 23:6715 (ORNL-4324)

PuO_2—UO_2, preparation of microspheres of, from sols, 24:17393 (ORNL-4480, pp 3-35)
PuO_2—UO_2, preparation of microspheres of, from solvent extraction sols, 22:12476 (ORNL-TM-1978)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 24:30012 (CONF-700502-, pp 227-38)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 24:30007 (CONF-700502-, pp 150-63)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 24:30014 (CONF-700502-, pp 244-52)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 21:45981 (ORNL-4145, pp 180-207)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 24:30009 (CONF-700502-, pp 178-89)
PuO_2—UO_2, preparation of microspheres of, sol-gel process for, 24:30004 (CONF-700502-, pp 100-12)
PuO_2—UO_2, preparation of mixed microparticles of, by sol-gel process, 23:3128
PuO_2—UO_2, preparation of mixed sols of, for incorporation in fuel microspheres, 24:36951 (ORNL-4520, pp 3-56)
PuO_2—UO_2, preparation of pellet-type fuels of, method for, 25:49515(P)
PuO_2—UO_2, preparation of pellets of, adustment of metal-to-oxygen ratio for, 23:48502 (ORNL-4420, pp 3-39)
PuO_2—UO_2, preparation of pellets of, for LMFBR fuel, 23:48576(R) (UNC-5244)
PuO_2—UO_2, preparation of pellets of, for testing high temperature reactions with rhenium—tungsten alloys, 23:36171(R) (BMI-1864)
PuO_2—UO_2, preparation of powdered, co-precipitation method for, 24:23509 (EUR-4389)
PuO_2—UO_2, preparation of powdered, for dissolution studies, 25:49576 (ORNL-TM-3416, pp 3-51)
PuO_2—UO_2, preparation of powders of, 25:54717 (ORNL-4682, pp 160-2)
PuO_2—UO_2, preparation of reactor fuels of, sol-gel process for, 23:2366(R) (BAW-3714-8)
PuO_2—UO_2, preparation of replicas of irradiated, for electron microscopy, 25:37994 (ANL-7790)
PuO_2—UO_2, preparation of simulated 2 per cent burnup pellets of, by incorporation of inactive fission product elements, 23:46147 (CEA-CONF-1297)
PuO_2—UO_2, preparation of sintered pellets of, method for, 23:24982(P)
PuO_2—UO_2, preparation of sol-gel fuel of, 23:24978(R) (BAW-3714-9)
PuO_2—UO_2, preparation of sol-gel fuels of, 23:12260(R) (ORNL-4330)
PuO_2—UO_2, preparation of sols of, precipitation-peptization method for, 23:359 (ORNL-4272, pp 142-60)
PuO_2—UO_2, preparation of spheres of, sol-gel process for, 23:30127
PuO_2—UO_2, preparation of uranium-235-enriched microsphere and powdered fuels of, sol-gel method for, 23:46105(R) (BAW-3714-14)
PuO_2—UO_2, preparation of vibration mixed powders of, 21:46843(R) (EURAEC-1884)
PuO_2—UO_2, preparation of, gel-addition process for, 22:2016(R) (BAW-3714-4)
PuO_2—UO_2, preparation of, sol-gel process for, 24:30020 (CONF-700502-, pp 342-57)
PuO_2—UO_2, preparation of, sol-gel process for, 22:738
PuO_2—UO_2, preparation of, suitable for use as reactor fuels, 23:1027(P)
PuO_2—UO_2, preparation, properties, and phase relations of, 22:2699
PuO_2—UO_2, processing by fluorination, properties of chlorine mono- and trifluorides for, 21:28059(T) (ANL-Trans-478)
PuO_2—UO_2, processing for production of fuel, PCUT plant capability for, 22:49799
PuO_2—UO_2, processing fuels of, volatility process for, 21:8153
PuO_2—UO_2, processing irradiated fast reactor fuels of, pyrochemical method for, 21:45191 (ANL-7325, pp 19-49)
PuO_2—UO_2, processing of irradiated stainless steel-clad, nonaqueous methods for, 22:47213
PuO_2—UO_2, processing of irradiated, from fast reactors, 21:10162
PuO_2—UO_2, processing of irradiated, salt cycle method for, 21:17699 (BNWL-354)
PuO_2—UO_2, processing of reactor fuels of, salt-cycle method for pyrochemical, 21:14283 (BNWL-355)
PuO_2—UO_2, processing of Zircaloy-clad, fluoride-volatility, 21:36073(R) (ANL-7350)
PuO_2—UO_2, processing of, engineering developments in plant for Salt Cycle, 21:10413 (HW-SA-3527)
PuO_2—UO_2, processing of, melt atmosphere control for Salt Cycle, 21:12494 (BNWL-CC-372)
PuO_2—UO_2, processing of, methods for, 21:12496(R) (EURAEC-1703)
PuO_2—UO_2, production and quality control of Zircaloy-clad rods of, for PRTR, 21:19459 (BNWL-349)
PuO_2—UO_2, production by denitration of nitrates, method for continuous, 25:39470(R) (ANL-7750)
PuO_2—UO_2, production from nitrates by fluidized-bed process, 25:23641(R) (ANL-7767)
PuO_2—UO_2, production from nitrates, plant for continuous, 25:2306(R) (ANL-7735)
PuO_2—UO_2, production in Hanford Salt Cycle Process, 21:30499 (HW-SA-3622)
PuO_2—UO_2, production method for dense compacts of, 22:28914(P)
PuO_2—UO_2, production of blended powders of, 22:19618(P)
PuO_2—UO_2, production of dense controlled-size particles of, by sol-gel process, 23:10253
PuO_2—UO_2, production of dense microparticles of, sol-gel process for, 23:30132
PuO_2—UO_2, production of dense particles of, colloid method for, 23:8284(P)
PuO_2—UO_2, production of dry granular fuels of, methods for, 22:21758(P)
PuO_2—UO_2, production of fuel elements of, method for, 22:34105(P)
PuO_2—UO_2, production of fuel microspheres of, gel supported precipitation method for, 24:27810
PuO_2—UO_2, production of fuel pellets of, equipment and method for continuous, 24:51199
PuO_2—UO_2, production of microspheres of, continuous sol-gel and gel-supported precipitation processes for, 24:30011 (CONF-700502-, pp 210-26)
PuO_2—UO_2, production of microspheres of, sol-gel process for, 23:30124
PuO_2—UO_2, production of monocrystalline, development of methods for, 25:11474(R) (BNWL-842)
PuO_2—UO_2, production of particulate fuel of, by gel-addition process, 22:36522(R) (BAW-3714-6)
PuO_2—UO_2, production of, problems in, 25:18517
PuO_2—UO_2, properties for driver fuels, neutronic, (E/T), 21:8082
PuO_2—UO_2, properties for zoned fast reactor cores, neutronic, 21:7909
PuO_2—UO_2, properties of calcined and sintered sol-gel, 23:24973 (ORNL-4390, pp 3-33)
PuO_2—UO_2, properties of dense microspheres of, prepared from sols, 23:48502 (ORNL-4420, pp 3-39)
PuO_2—UO_2, properties of fuels of, mechanical and physical, 24:46043(R) (GEAP-10028-34)
PuO_2—UO_2, properties of fuels of, mechanical and physical, 24:43762(R) (GEAP-10028-33)
PuO_2—UO_2, properties of fuels of, mechanical, physical, and thermal, (E), 25:18137(R) (GEAP-10028-36)
PuO_2—UO_2, properties of fuels of, mechanical, physical, and thermal, (E), 25:1888(R) (GEAP-10028-35)
PuO_2—UO_2, properties of fuels of, mechanical, physical, and thermal, (E), 25:28691(R) (GEAP-10028-37)
PuO_2—UO_2, properties of fuels of, mechanical, physical, and thermal, (E), 25:54096(R) (GEAP-10028-38)
PuO_2—UO_2, properties of fuels of, review of chemical, mechanical, and physical, 25:38004 (A/CONF.49/P-69)
PuO_2—UO_2, properties of microspheres of, prepared for sphere-pac irradiation capsule loading, 24:44760 (ORNL-4560, pp 3-38)
PuO_2—UO_2, properties of powder mixtures of, methods for determination of, 21:6872 (TID-7637)
PuO_2—UO_2, properties of powdered sol—gel, for production of dense irradiation test pellets, 24:44760 (ORNL-4560, pp 3-38)
PuO_2—UO_2, properties of powders and fuel pellets of, methods for determining characteristic, 25:728(R) (WARD-4135-11)
PuO_2—UO_2, properties of simulated irradiated fuels of nonstoichiometric, effects of fission products on electric and thermal, 25:47159
PuO_2—UO_2, properties of sintered rods of, for preirradiation creep testing, 23:39038 (BMI-1862, Sect.C)
PuO_2—UO_2, properties of stainless steel clad, for fast reactor fuel, 23:10272
PuO_2—UO_2, properties of stainless steel- and Zircaloy-clad, as water-moderated reactor fuel, 22:6017
PuO_2—UO_2, properties of stainless steel-clad fuel pins of, for 1000 MW(e) helium-cooled breeder reactor, mechanical and thermal, 25:58410 (BLG-456)
PuO_2—UO_2, properties of test pellets of, chemical, metallographic, and physical, 24:17360(R) (WARD-4135-1)
PuO_2—UO_2, properties of, data compilation on electric, mechanical, physical, and thermal, 25:32774 (GEAP-13582)
PuO_2—UO_2, properties of, effects of stoichiometry on mechanical and thermal, 23:45082(R) (GA-8787)
PuO_2—UO_2, properties of, review of physical and thermal, 23:45989
PuO_2—UO_2, properties testing as fast ceramic reactor fuel, 21:8122(R) (GEAP-5158)
PuO_2—UO_2, radiation and thermal effects on clad fuel pins of, in-pile, 25:775 (BNWL-1349-2, pp 3.1-55)
PuO_2—UO_2, radiation effects at 6,000 to 25,000 MWd/t on pelleted and swaged rods of, 23:10302
PuO_2—UO_2, radiation effects on, 24:37002 (ORNL-4586, pp 87-97)
PuO_2—UO_2, radiation effects on assemblies of sintered pellet fuel elements of, 22:32985
PuO_2—UO_2, radiation effects on axial expansion of, fast neutron, 23:37625
PuO_2—UO_2, radiation effects on behavior of fuel pins of, comparison of experimental results with predictions of in-pile, 25:47180
PuO_2—UO_2, radiation effects on behavior of Type 316 stainless steel-clad fuel rods of, in-pile, 25:32854
PuO_2—UO_2, radiation effects on behavior of, in-pile, 23:16546 (EURAEC-2072)
PuO_2—UO_2, radiation effects on burnup, microstructure, and mechanical properties of pressurized water reactor fuels of, in-pile, (E), 24:26777(R) (WCAP-3385-22)
PuO_2—UO_2, radiation effects on burnup, microstructure, and mechanical properties of pressurized water reactor fuels of, in-pile, (E), 24:36033(R) (WCAP-3385-23)
PuO_2—UO_2, radiation effects on burnup, microstructure, and mchanical properties of pressurized water reactor fuel elements of Zircaloy clad, in-pile, (E), 24:52916(R) (WCAP-3385-24)
PuO_2—UO_2, radiation effects on burnup, microstructure, and mechanical properties of fuels of, in-pile, (E), 25:10213(R) (WCAP-3385-25)
PuO_2—UO_2, radiation effects on burnup, microstructure, and dimensions of fuels of, in-pile, (E), 25:25987(R) (WCAP-3385-26)
PuO_2—UO_2, radiation effects on burst strength of stainless steel-clad fuel pins of, at 8000 MWd/Mtm, 24:30048 (BNWL-1323)
PuO_2—UO_2, radiation effects on center melting of fuel elements of, in-pile, 23:36280
PuO_2—UO_2, radiation effects on clad compacted pins of, in-pile, 23:51146(R) (RISO-199)
PuO_2—UO_2, radiation effects on clad compacted-powder fuel elements of, at 2.7 at. percent burnup, 24:25632 (ANL-7417, pp 3-22)
PuO_2—UO_2, radiation effects on clad compacts of, fast neutron, 23:16548 (ORNL-4275, pp 121-34)
PuO_2—UO_2, radiation effects on clad elements of, 21:9248 (CEA-R-3066)
PuO_2—UO_2, radiation effects on clad fuel elements of, in-pile, 24:2983 (ORNL-4470, pp 148-59)
PuO_2—UO_2, radiation effects on clad fuel of hyper- and hypo-stoichiometric, to 70,000 MWd/t burnup, 21:6893 (GEAP-4897)
PuO_2—UO_2, radiation effects on clad fuel pins of, at 8500 MWd/Mtm, 24:46816
PuO_2—UO_2, radiation effects on clad fuel rods of, at 57,000 MWd/t burnup, 24:8211(R) (NUMEC-3524-67)
PuO_2—UO_2, radiation effects on clad pellet-loaded rods of, at 60,000 MWd/t, 23:10298(R) (NUMEC-3432-41)
PuO_2—UO_2, radiation effects on clad pellet-type fuels of, in-pile, 25:2771 (ORNL-4570, pp 161-9)
PuO_2—UO_2, radiation effects on clad sphere-pac fuel pins of, in-pile, 25:29922 (ORNL-4630, pp 3-58)
PuO_2—UO_2, radiation effects on clad, effects of fabrication on, 21:1956 (CONF-660606-53)
PuO_2—UO_2, radiation effects on clad, in-pile, 21:30093(R) (ANL-7317)
PuO_2—UO_2, radiation effects on clad, in-pile, 22:43627 (ANL-7299, pp 14-113)
PuO_2—UO_2, radiation effects on cladding—fuel reactions of, at 4000 to 16,000 MWd/t, 24:10207
PuO_2—UO_2, radiation effects on compacted rods of, at high burnups and temperatures, 23:46146 (BNWL-SA-2412)
PuO_2—UO_2, radiation effects on compacts of, in-pile, 22:21725 (BNWL-SA-1624)
PuO_2—UO_2, radiation effects on compatibility of hypostoichiometric and stoichiometric, with stainless steel fuel cladding, in-pile, 25:40138
PuO_2—UO_2, radiation effects on compatibility with rhenium—tungsten thermocouple sheaths at 2100 to 2300°C, in-pile, 24:14893 (GEMP-1013, pp 339-78)
PuO_2—UO_2, radiation effects on compatibility with cladding materials and sodium, in-pile, 23:41751 (GEAP-5633)
PuO_2—UO_2, radiation effects on creep at 900 to 1300°C, 23:36279
PuO_2—UO_2, radiation effects on creep of encapsulated specimens of, in-pile, 24:34971 (BNWL-1349-1, pp 2.1-39)
PuO_2—UO_2, radiation effects on creep of encapsulated fuels of, in-pile, 25:6890 (BMI-1886, Sect. C)
PuO_2—UO_2, radiation effects on creep of encapsulated, in-pile, 24:1099 (BMI-1868, Sect.C)
PuO_2—UO_2, radiation effects on creep of encapsulated specimens of, in-pile, 24:34970 (BMI-1882, Sect.C)
PuO_2—UO_2, radiation effects on creep of encapsulated, in-pile, 24:10189 (BMI-1872, Sect.C)
PuO_2—UO_2, radiation effects on creep of fuel specimens of, design of measuring apparatus for in-pile, 24:17388 (CONF-690910-, pp 165-83)
PuO_2—UO_2, radiation effects on creep of, in-pile, 24:12462 (BNWL-1223, pp 2.1-28)
PuO_2—UO_2, radiation effects on creep of, relations of material parameters, stress, and temperature with in-pile and out-of-pile, 25:49566 (BMI-1906)
PuO_2—UO_2, radiation effects on dense clad fuel rods of, at 800 W/cm power, pile neutron, 25:16614 (EURAEC-2146)
PuO_2—UO_2, radiation effects on diameter increase of stainless steel-clad fuel pins of, comparison of calculated and measured neutron, 25:32849
PuO_2—UO_2, radiation effects on diffusion of plutonium and uranium in, fast neutron, 25:40139
PuO_2—UO_2, radiation effects on dimensional stability of stainless steel-clad fuel pins of, direct measurements of in-pile, 25:47187
PuO_2—UO_2, radiation effects on dimensions of clad fuel elements of, at 33,000 MWd/t burnup, 24:8211(R) (NUMEC-3524-67)
PuO_2—UO_2, radiation effects on dimensions of encapsulated, at 1260 to 1710°C, in-pile, 24:39724(R) (BMI-1884)
PuO_2—UO_2, radiation effects on distribution of fused oxide in, in-pile, 25:4879 (CEA-CONF-1659)
PuO_2—UO_2, radiation effects on distribution of plutonium and uranium in fuels of, 24:34972 (BNWL-1349-1, pp 3.1-69)
PuO_2—UO_2, radiation effects on encapsulated fuel pins of, at high temperatures, in-pile, 23:51082(R) (WARD-3791-39)
PuO_2—UO_2, radiation effects on encapsulated fuels of, fast and thermal neutron, 25:8909 (ORNL-4600, pp 3-40)
PuO_2—UO_2, radiation effects on enthalpy of fuels of, in-pile, 25:58344(R) (LA-4693)
PuO_2—UO_2, radiation effects on failures of fuel pins of, rates for, 25:25983 (GEAP-13620)
PuO_2—UO_2, radiation effects on fission gas release and oxygen distribution in, neutron, 25:19287 (AECL-3690)
PuO_2—UO_2, radiation effects on fission gas release from sol-gel microspheres of, 24:36999 (ORNL-4520, pp 259-64)
PuO_2—UO_2, radiation effects on fission product distribution in, at 5.6 x 10^{20} fissions/cm^3, 24:25632 (ANL-7417, pp 3-22)
PuO_2—UO_2, radiation effects on fission product diffusion from, at high temperatures, relations of burnup with in-pile, 24:4857 (ORNL-4440, pp 56-8)
PuO_2—UO_2, radiation effects on fission product distribution in fuels of, at high burnup, 24:10210
PuO_2—UO_2, radiation effects on fuel capsules of, influence of process variables and properties on, 21:33015
PuO_2—UO_2, radiation effects on fuel elements of, in-pile, 21:33007(R) (NUMEC-3432-30)

PuO_2—UO_2, radiation effects on fuel elements of, in-pile, 24:2982 (ORNL-4470, pp 127-40)
PuO_2—UO_2, radiation effects on fuel elements of, in PRTR, 21:22934 (BNWL-366)
PuO_2—UO_2, radiation effects on fuel elements of, neutron, 21:41679 (BNWL-225)
PuO_2—UO_2, radiation effects on fuel material in PRTR, plans for, 21:4412 (BNWL-314)
PuO_2—UO_2, radiation effects on fuel pellets of, in-pile, 23:36278
PuO_2—UO_2, radiation effects on fuel pellets of, review of in-pile, 25:54082 (A/CONF.49/P-158)
PuO_2—UO_2, radiation effects on fuel pins of, fast-flux in-pile, 22:19672 (GEAP-5570)
PuO_2—UO_2, radiation effects on fuel rods of, at 20,000 MWd/t in-pile, 24:21444 (EURAEC-2135)
PuO_2—UO_2, radiation effects on fuel spheres and pellets of, in-pile, 25:49576 (ORNL-TM-3416, pp 3-51)
PuO_2—UO_2, radiation effects on fuel spheres of, at high burnups, 25:55590(R) (EIR-192)
PuO_2—UO_2, radiation effects on fuel swelling and fission gas release from, (T), 24:46130
PuO_2—UO_2, radiation effects on fuel-clad-sodium compatibility of substoichiometric, thermal neutron, 24:23533 (BNWL-1279, pp 3.1-31)
PuO_2—UO_2, radiation effects on fuel-element, 21:19353(R) (EURAEC-1774)
PuO_2—UO_2, radiation effects on fuels of, 21:7977
PuO_2—UO_2, radiation effects on fuels of, in-pile, 25:783
PuO_2—UO_2, radiation effects on fuels of, prepared by sol-gel process, reactor, 23:36276
PuO_2—UO_2, radiation effects on fuels of, review on, 22:8804
PuO_2—UO_2, radiation effects on gas cooled fast breeder reactor fuels of, 25:18136(R) (GA-9838)
PuO_2—UO_2, radiation effects on gas cooled fast breeder reactor fuel elements of, fast neutron, 23:45083(R) (GA-9229)
PuO_2—UO_2, radiation effects on gas release and swelling of, in-pile, 24:10211
PuO_2—UO_2, radiation effects on grain and pore structure in fuels of, in-pile, 24:10191 (BNWL-1202)
PuO_2—UO_2, radiation effects on grain size in Sphere-Pac fuel Pins of, in-pile, 25:8911 (ORNL-4600, pp 65-80)
PuO_2—UO_2, radiation effects on grain size in Sphere-Pac fuels of, in-pile, 25:49576 (ORNL-TM-3416, pp 3-51)
PuO_2—UO_2, radiation effects on high power density fuels of, in-pile, 22:19513 (BNWL-SA-1623)
PuO_2—UO_2, radiation effects on high temperature swelling, fission gas release, and microstructure of, (E/T), 25:28688 (BMI-1898, Sect.B)
PuO_2—UO_2, radiation effects on hot pressed pellets of, in-pile, 22:19669 (BNWL-624, pp 2.1-32)
PuO_2—UO_2, radiation effects on hypostoichiometric fuels of, relations of burnup with thermal neutron, 24:34972 (BNWL-1349-1, pp 3.1-69)
PuO_2—UO_2, radiation effects on Incoloy 800 and stainless steel claddings on, 21:24833 (GEAP-5433)
PuO_2—UO_2, radiation effects on Incoloy 800 clad pellet shaped fuel elements, measurement of neutron, 24:7125
PuO_2—UO_2, radiation effects on intergranular pore density of fuel pins of, in-pile, 25:19290 (WHAN-SA-15)
PuO_2—UO_2, radiation effects on LMFBR fuels of, in-pile testing of, 24:17393 (ORNL-4480, pp 3-35)
PuO_2—UO_2, radiation effects on mechanical properties of, measurement of neutron, 23:45082(R) (GA-8787)
PuO_2—UO_2, radiation effects on mechanical properties of Hastelloy X- and Type 316 stainless steel-clad, analysis of fast neutron, 22:42200(R) (ORNL-4200)
PuO_2—UO_2, radiation effects on mechanical properties of, neutron, 25:44125 (ORNL-TM-3427)
PuO_2—UO_2, radiation effects on mechanical properties of, fast neutron, 25:31568(T) (EURFNR-823)
PuO_2—UO_2, radiation effects on melting heat rating of fuels of, in-pile, 25:45149 (HEDL-SA-71)
PuO_2—UO_2, radiation effects on melting point of hypostoichiometric fuels of, at 80,000 to 200,000 MWd/te, 24:10157 (GEAP-13515)
PuO_2—UO_2, radiation effects on metal distribution in Sphere-Pac fuels of, in-pile, 25:8911 (ORNL-4600, pp 65-80)
PuO_2—UO_2, radiation effects on metal-clad fuel elements of, 21:21755(R) (ANL-7302)
PuO_2—UO_2, radiation effects on metallography of fuels of, 21:13288(R) (NUMEC-3432-27)
PuO_2—UO_2, radiation effects on microstructure of fuel pellets of, at 40,000 MWd/mt, 23:8274 (ORNL-4370, pp 142-50)
PuO_2—UO_2, radiation effects on microstructure of vibrationally compacted, (E), 24:43857(R) (BNWL-1442)
PuO_2—UO_2, radiation effects on microstructure of fuels of, relations of power output with in-pile, 24:23533 (BNWL-1279, pp 3.1-31)
PuO_2—UO_2, radiation effects on microstructure of vibrationally compacted, in-pile, (E), 24:26835(R) (BNWL-1358)
PuO_2—UO_2, radiation effects on microstructure of, relations of preparation method with in-pile, 25:8955 (ORNL-4600, pp 225-34)
PuO_2—UO_2, radiation effects on mixed compacted fuel pellets of, data summary on in-pile, 24:36951 (ORNL-4520, pp 3-56)
PuO_2—UO_2, radiation effects on mixed compacted fuel pellets of, data summary on in-pile, 24:36951 (ORNL-4520, pp 3-56)
PuO_2—UO_2, radiation effects on NUMEC Series A pellet shaped, 23:31166(R) (NUMEC-3524-58)
PuO_2—UO_2, radiation effects on NUMEC Series B and Series C pellet shaped, 23:31167(R) (NUMEC-3524-62)
PuO_2—UO_2, radiation effects on partial melting of low-density, in-pile, 25:4879 (CEA-CONF-1659)
PuO_2—UO_2, radiation effects on pellet-type fuels of, thermal neutron, 24:44760 (ORNL-4560, pp 3-38)
PuO_2—UO_2, radiation effects on pellets and powders of, transient in-pile, 22:19669 (BNWL-624, pp 2.1-32)
PuO_2—UO_2, radiation effects on pellets and shards of, neutron, 24:27031(R) (BAW-3714-16)
PuO_2—UO_2, radiation effects on performance and properties of fuels of, relations of density and stoichiometry with in-pile, 24:10204
PuO_2—UO_2, radiation effects on performance of clad fuel pins of, fast and thermal neutron, 23:41759
PuO_2—UO_2, radiation effects on performance of fuels of, economics of, 21:14869 (BNWL-SA-1079)
PuO_2—UO_2, radiation effects on performance of fuel elements of, in-pile, 23:36280
PuO_2—UO_2, radiation effects on performance of fuel pins of, comparison of experimental data with FMODEL predictions of in-pile, 25:32848
PuO_2—UO_2, radiation effects on performance of manifolded and vented fuel rods of, in-pile, 25:47107
PuO_2—UO_2, radiation effects on performance of Type 304 stainless steel-clad pellets and Sphere-Pac, severe transient overpower in-pile, 25:32853
PuO_2—UO_2, radiation effects on performance of Type 316 stainless steel clad fuel elements of, in-pile, 25:47182
PuO_2—UO_2, radiation effects on physical properties of Saxton Power Reactor Core 2 Zircaloy 4 clad fuel elements of, analysis of neutron, 24:3998(R) (WCAP-3385-20)
PuO_2—UO_2, radiation effects on physical properties of pellet shaped, measurement of fast neutron, 23:28488 (ORNL-4353, pp 111-39)
PuO_2—UO_2, radiation effects on physical properties of pellet shaped, fast neutron, 24:24836 (ORNL-4508, pp 71-112)
PuO_2—UO_2, radiation effects on pneumatically impacted fuels of, reactor, 21:28860 (BNWL-356)
PuO_2—UO_2, radiation effects on pneumatically impacted, 21:33014
PuO_2—UO_2, radiation effects on properties and structure of sol-gel fuels of, in-pile, 24:46815
PuO_2—UO_2, radiation effects on properties of, 23:48571(R) (EIR-146)
PuO_2—UO_2, radiation effects on properties of fuels of, review on, 24:44770
PuO_2—UO_2, radiation effects on Rapsodie fuel elements of, in-pile, 23:10304
PuO_2—UO_2, radiation effects on reactions with stainless steel cladding during power cycling, in-pile, 24:44816 (ORNL-4560, pp 62-6)
PuO_2—UO_2, radiation effects on restructuring kinetics of capsule of, in-pile, 23:46105(R) (BAW-3714-14)
PuO_2—UO_2, radiation effects on restructuring of, relations of temperature, temperature gradient, and time with in-pile, 25:32850
PuO_2—UO_2, radiation effects on rhenium—tungsten alloy-encapsulated, research summary on in-pile, 25:6889 (BMI-1886, Sect. B)
PuO_2—UO_2, radiation effects on rods of, 25:23285(R) (NEDC-12152)
PuO_2—UO_2, radiation effects on sol-gel pellets of, relations of burnup with in-pile, 24:4827 (ORNL-4440, pp 3-28)
PuO_2—UO_2, radiation effects on sol-gel powders of, in-pile, 24:44820 (ORNL-4560, pp 215-17)
PuO_2—UO_2, radiation effects on sol-gel, program development for in-pile, 23:24973 (ORNL-4390, pp 3-33)
PuO_2—UO_2, radiation effects on sol-gel-derived, in-pile, 23:20535 (ORNL-4350, pp 3-32)
PuO_2—UO_2, radiation effects on sol-gel-produced spheres of, in-pile, 24:30051 (CONF-700502-, pp 414-21)
PuO_2—UO_2, radiation effects on sol-gel-produced, in-pile, 24:30050 (CONF-700502-, pp 374-413)
PuO_2—UO_2, radiation effects on spatial distribution of intergranular porosity in fuel elements of, in-pile, 25:40134 (WHAN-SA-66)
PuO_2—UO_2, radiation effects on Sphere-Pac and pelletized sol-gel-produced, in-pile, 24:30049 (CONF-700502-, pp 359-73)
PuO_2—UO_2, radiation effects on sphere-pac fuels of, review of in-pile, 25:2768 (ORNL-4570, pp 47-61)
PuO_2—UO_2, radiation effects on Sphere-Pac sol-gel derived, fast neutron, 24:7373
PuO_2—UO_2, radiation effects on stainless steel clad, fast neutron, 25:39249 (A/CONF.49/P-77)
PuO_2—UO_2, radiation effects on stainless steel clad, in-pile, 25:34371
PuO_2—UO_2, radiation effects on stainless steel clad, in-pile, 25:34372
PuO_2—UO_2, radiation effects on stainless steel clad pin type fuel elements, measurement of neutron, 24:7178
PuO_2—UO_2, radiation effects on stainless steel-clad fuels of, in-pile, 25:49573 (ORNL-TM-3300, pp 3-52)
PuO_2—UO_2, radiation effects on stainless steel-clad rods of, transient in-pile, 22:31526 (GEAP-4469)
PuO_2—UO_2, radiation effects on stoichiometric, in-pile, 23:36278
PuO_2—UO_2, radiation effects on structure of, neutron, 25:20836 (WHAN-SA-79)
PuO_2—UO_2, radiation effects on substoichiometric coprecipitated, in-pile, 23:36278
PuO_2—UO_2, radiation effects on swelling and mechanical properties of, fast neutron, (E/T), 24:41017
PuO_2—UO_2, radiation effects on swelling of EBR-2 pin type fuel elements, measurement of fast neutron, 24:7209
PuO_2—UO_2, radiation effects on swelling of, review on in-pile, 23:24855 (JAERI-1172)
PuO_2—UO_2, radiation effects on thermal behavior of Zircaloy-clad vibrated fuels of, in-pile, 24:51233 (EURAEC-2143)
PuO_2—UO_2, radiation effects on thermal performance of fuel elements of, relations of fuel density and power rate with, 24:4855 (CEA-R-3878)
PuO_2—UO_2, radiation effects on thermal performance of fuels of, relations of density and power rate with in-pile, 24:23537(T) (EURFNR-707)
PuO_2—UO_2, radiation effects on transport in fuels of, relations of temperature with in-pile, 24:10203
PuO_2—UO_2, radiation effects on Type 304 stainless steel clad, measurement of neutrons, 24:7368
PuO_2—UO_2, radiation effects on Type 316 or Type 347 stainless steel clad fuel elements of, in-pile, 22:27423
PuO_2—UO_2, radiation effects on vibrationally compacted, fast neutron, 22:19669 (BNWL-624, pp 2.1-32)
PuO_2—UO_2, radiation effects on vibrationally compacted fuels of, 22:53454 (BNWL-828)
PuO_2—UO_2, radiation effects on vibrationally compacted fuels of, 23:9237(R) (BNWL-907)
PuO_2—UO_2, radiation effects on void distribution in, in-pile, 25:11536
PuO_2—UO_2, radiation effects on void formation in fast reactor fuels of, in-pile, 25:47151(R) (BAW-3714-21)
PuO_2—UO_2, radiation effects on Zircaloy-2-clad and Type 304 stainless steel-clad, analysis of neutron, 23:7429(R) (EURAEC-2065)
PuO_2—UO_2, radiation effects on Zircaloy-clad elements of, under PRTR conditions, 23:8361
PuO_2—UO_2, radiation effects on Zircaloy-clad fuel rods of, 21:32031 (BNWL-SA-1065-S)
PuO_2—UO_2, radiation effects on Zircaloy-clad, in-reactor, 21:10203 (BNWL-SA-256)
PuO_2—UO_2, radiation effects on, analysis of neutron, 22:32743(R) (BNWL-739)
PuO_2—UO_2, radiation effects on, at 125,000 MWd/t burnup, thermal neutron, 23:41752 (GEAP-5761)
PuO_2—UO_2, radiation effects on, description of optical examination methods for neutron, 22:27497
PuO_2—UO_2, radiation effects on, determination by gamma scanning and analysis of drill samples, 24:36950(R) (EIR-171)
PuO_2—UO_2, radiation effects on, effects of method of preparation on, 22:11090 (NUMEC-3432-24)
PuO_2—UO_2, radiation effects on, electron microprobe analysis of, 22:24925(R) (ANL-7427)
PuO_2—UO_2, radiation effects on, fast neutron, 25:54092 (A/CONF.49/P-609)
PuO_2—UO_2, radiation effects on, in pile, 23:32047(R) (BAW-3714-12)
PuO_2—UO_2, radiation effects on, in-pile, 22:2707 (BNWL-SA-1346)
PuO_2—UO_2, radiation effects on, in-pile, 25:34373
PuO_2—UO_2, radiation effects on, neutron, 22:21776(R) (EURAEC-1937)
PuO_2—UO_2, radiation effects on, reactor, 21:24833 (GEAP-5433)
PuO_2—UO_2, radiation effects on, relations of pellet stoichiometry with in-pile, 22:49772(R) (NUMEC-3432-44)
PuO_2—UO_2, radiation effects on, review of in-pile, 23:45989
PuO_2—UO_2, radiation effects testing fast reactor fuels, in-pile, 22:8845 (EURFNR-423)
PuO_2—UO_2, radiation effects testing of Fast Ceramic Reactor fuels of, 23:37506(R) (GEAP-5677)
PuO_2—UO_2, radiation effects testing of fuels of, 23:37507(R) (GEAP-5700)
PuO_2—UO_2, radiation effects testing of fuels of, 24:43762(R) (GEAP-10028-33)
PuO_2—UO_2, radiation effects testing of fuels of, 25:1888(R) (GEAP-10028-35)
PuO_2—UO_2, radiation effects testing of fuels of, 25:28691(R) (GEAP-10028-37)
PuO_2—UO_2, radiation effects testing of fuels of, 25:18137(R) (GEAP-10028-36)
PuO_2—UO_2, radiation effects testing of fuels of, 25:54096(R) (GEAP-10028-38)
PuO_2—UO_2, radiation effects testing of fuels of, fast neutron, 24:46043(R) (GEAP-10028-34)
PuO_2—UO_2, radiation effects, on clad, 21:7856(R) (ANL-7255)
PuO_2—UO_2, radiation performance of dense clad fuels of, at 87,000 to 115,000 MWd/t, 23:10300
PuO_2—UO_2, radiation testing of fuel pins of, comparison of calculated and measured burnup and heat rates in, 23:48502 (ORNL-4420, pp 3-39)
PuO_2—UO_2, radiation testing of fuel pins of, status summary on in-pile, 25:775 (BNWL-1349-2, pp 3.1-55)
PuO_2—UO_2, radiation testing of fuels of, 24:16190(R) (GEAP-10028-32)
PuO_2—UO_2, radiation testing of fuels of, 23:43115(R) (GEAP-5753)
PuO_2—UO_2, radiation testing of fuels of, 23:43116(R) (GEAP-10028)
PuO_2—UO_2, radiation testing of fuels of, 24:4058(R) (GEAP-10028-31)
PuO_2—UO_2, radiation testing of gas cooled fast breeder fuels of, 23:43114(R) (GA-9359)
PuO_2—UO_2, radiation testing of gas cooled fast breeder fuel elements of, 24:13551(R) (GA-9811)
PuO_2—UO_2, radiation testing of gas cooled fast reactor fuels of, 24:4061 (ORNL-4424, pp 75-98)
PuO_2—UO_2, radiation testing of pin shaped, 25:26075 (GEAP-13603)
PuO_2—UO_2, radiation testing of rod shaped, 24:7353(R) (BNWL-1224)
PuO_2—UO_2, radiation testing of rod shaped, at high burnup, 23:52403 (EURAEC-2097)
PuO_2—UO_2, radiation testing of rod type fuel elements, 24:43751 (BNWL-1435)
PuO_2—UO_2, radiation testing of Type 316 stainless steel clad fuel pellets of, 25:5990(R) (ORNL-4589)
PuO_2—UO_2, radiation testing of Type 316 stainless steel and Hastelloy X clad pins of, 24:33312
PuO_2—UO_2, radiation testing of Zircaloy clad rods of, internal gas behavior during, 24:33555
PuO_2—UO_2, radioautography of irradiated fuel elements of, method for hot cell, 25:57693

PuO_2—UO_2, radioinduced diffusion of, in-pile, 23:39065 (BNWL-1058, pp 5.1-58)
PuO_2—UO_2, radioinduced fission gas release and swelling of clad fuels of, model for, 24:44817 (ORNL-4560, pp 67-87)
PuO_2—UO_2, radioinduced gas release and pressure buildup in, relations with burnup and specific power under in-pile conditions, 22:2707 (BNWL-SA-1346)
PuO_2—UO_2, radioinduced tritium production in, relations of burnup with fast neutron, 25:58344(R) (LA-4693)
PuO_2—UO_2, rate of fusion at high temperature, 21:40695(R) (EURAEC-1886)
PuO_2—UO_2, reaction rates in fuels of, effects of particle size on relative, (E/T), 24:16317(R) (BNWL-1289)
PuO_2—UO_2, reactions of irradiated fuel pins of, with Hastelloy X and Types 304 and 316 stainless steel cladding, 25:32801
PuO_2—UO_2, reactions of irradiated, with stainless steel cladding, 25:32799
PuO_2—UO_2, reactions of solid solutions of, with fluorine and fluorine chlorides, kinetics of, 25:54736
PuO_2—UO_2, reactions of, data compilations on solid-state, 25:32774 (GEAP-13582)
PuO_2—UO_2, reactions of, with fluorine, 21:14310
PuO_2—UO_2, reactions of, with graphite at temperatures greater than 1500°C to produce carbides, 21:13250(P)
PuO_2—UO_2, reactions with chlorine trifluoride or fluorine, 22:25470(T) (ANL-Trans-590)
PuO_2—UO_2, reactions with Incoloy-800 and stainless steel at 1400°F, 22:4739
PuO_2—UO_2, reactions with liquid sodium, equilibrium phase, mass spectrometry, and solution calorimetry studies of, 25:32803
PuO_2—UO_2, reactions with nitrogen to produce nitrides, carbothermic, 23:95 (BNWL-SA-1866)
PuO_2—UO_2, reactions with rhenium—tungsten alloys at 1700 to 1800°C, 24:1062(R) (BMI-1870)
PuO_2—UO_2, reactions with sodium at 400 to 1100°C, calculations of, 25:4736(R) (ANL/ST-3)
PuO_2—UO_2, reactions with sodium at high temperatures, design of experiment to study, 24:19495(R) (GEAP-12032)
PuO_2—UO_2, reactions with sodium at high temperatures, thermodynamic behavior of reaction products from, 24:46783(R) (GEAP-12099)
PuO_2—UO_2, reactions with sodium in failed fuel elements at high temperatures, effects of oxygen-to-metal ratio on, 25:8926(R) (GEAP-12133)
PuO_2—UO_2, reactions with sodium, mechanisms of high-temperature, 23:30139 (GEAP-5683)
PuO_2—UO_2, reactions with sodium, thermodynamics of, 25:44367(R) (ANL-7821)
PuO_2—UO_2, reactions with tantalum at high temperatures, 23:12435
PuO_2—UO_2, reactions with type 316L stainless steel, 21:6857(R) (NUMEC-3524-22)
PuO_2—UO_2, reactivity measurements in fuel elements for PRTR of, 21:38533
PuO_2—UO_2, reactivity of, grain size effects on, 21:34154 (BNWL-427)
PuO_2—UO_2, reactivity worth in full size SEFOR core, (E/T), 24:13601(R) (GEAP-10010-22)
PuO_2—UO_2, reactivity worth of, effects of plutonium oxide (PuO_2) particle size on, (E/T), 25:54287 (BNWL-1608)
PuO_2—UO_2, reduction at 1650°C by carbon, uranium, and uranium carbide, 21:32986
PuO_2—UO_2, reduction by copper—magnesium alloy in molten salt, 22:51044 (ANL-7425, pp 19-41)
PuO_2—UO_2, reduction to hypostoichiometric $(U,Pu)O_2$ using hydrogen and carbothermic methods, 25:41779 (ORNL-TM-3358)
PuO_2—UO_2, reprocessing by solvent extraction using TBP, effects of hydrofluoric acid on suppression of secondary zirconium reactions during, 23:40787(T) (AEC-tr-7076, pp 20-72)
PuO_2—UO_2, reprocessing by volatility process using bromine pentafluoride or fluorine, 24:36341 (CEA-N-1241, pp 291-324)
PuO_2—UO_2, reprocessing fuel of, by chloride-volatility techniques, 22:150
PuO_2—UO_2, reprocessing fuel of, by fluoride-volatility techniques, 22:150
PuO_2—UO_2, reprocessing fuels of, salt-cycle methods for, 22:6383
PuO_2—UO_2, reprocessing irradiated fuels of, by chloride volatility methods, 24:11645 (BARC-406)
PuO_2—UO_2, reprocessing irradiated Zircaloy-clad fuels of, distribution of ruthenium hexafluoride in process stream during, 22:25443 (ANL-7375, pp 46-94)
PuO_2—UO_2, reprocessing of fuels of, 22:47223
PuO_2—UO_2, reprocessing of fuels of, at the Hague Centre, review on, 23:7620
PuO_2—UO_2, reprocessing of fuels of, by chloride volatility methods, 24:9418 (BARC-397)
PuO_2—UO_2, reprocessing of fuels of, by halide volatilization process, 25:6395 (CEA-N-1341, pp 337-61)
PuO_2—UO_2, reprocessing of fuels of, by halide volatilization process, 25:26332(T) (ORNL-tr-2410, pp 98-120)
PuO_2—UO_2, reprocessing of fuels of, by TBP process, 23:49884 (CEA-CONF-1361)
PuO_2—UO_2, reprocessing of fuels of, chloride volatility method for, 24:50448 (CONF-690916-(Vol.2), pp 283-9)
PuO_2—UO_2, reprocessing of fuels of, fluoride volatility method for, 23:40791(T) (ANL-Trans-751)
PuO_2—UO_2, reprocessing of fuels of, in Germany, 25:39582
PuO_2—UO_2, reprocessing of fuels of, mechanical dismantling and cutting in, 23:9498(T) (ANL-Trans-692)
PuO_2—UO_2, reprocessing of fuels of, method for, 23:13818 (CEA-CONF-1195)
PuO_2—UO_2, reprocessing of fuels of, using fluoride volatility methods, 24:5727
PuO_2—UO_2, reprocessing of highly irradiated fuels of, 23:49886 (CEA-CONF-1363)
PuO_2—UO_2, reprocessing of irradiated, 22:33527
PuO_2—UO_2, reprocessing of irradiated fuels of, from Rapsodie Reactor, review on AT 1 method for, 25:39581
PuO_2—UO_2, reprocessing of irradiated stainless steel-clad, by fluoride volatility process, 23:17509(T) (ANL-Trans-703, pp 45-84)
PuO_2—UO_2, reprocessing of irradiated, by chlorination volatility techniques, 23:38054
PuO_2—UO_2, reprocessing of irradiated, economics of, 25:4134(T) (AEC-tr-7198)
PuO_2—UO_2, reprocessing of irradiated, economics of, 24:29357 (CEA-CONF-1534)
PuO_2—UO_2, reprocessing of irradiated, fluidized-bed process for, 22:23099(R) (K-L-1780(Pt.23))
PuO_2—UO_2, reprocessing of irradiated, fluorination method for, 25:51557 (A/CONF.49/P-448)
PuO_2—UO_2, reprocessing of irradiated, salt-transport process for, 22:33528
PuO_2—UO_2, reprocessing of reactor fuels of, fluoride volatility process for, 23:26320 (ANL-7550, pp 23-34)
PuO_2—UO_2, reprocessing of spent, fluidized-bed fluoride volatility process for, 23:2396
PuO_2—UO_2, reprocessing of stainless steel clad, volatility method for, 24:11655 (CEA-N-1148, pp 297-334)
PuO_2—UO_2, reprocessing of stainless steel clad, volatility method for, 24:22724(T) (ANL-Trans-800)
PuO_2—UO_2, reprocessing of stainless steel-clad fast breeder fuels of, 22:23108
PuO_2—UO_2, reprocessing of stainless steel-clad or Zircaloy-clad, chemical, electrolytic, and mechanical methods for, 25:18493 (CEA-Bib-191)
PuO_2—UO_2, reprocessing of stainless steel-clad or Zircaloy-clad, chemical, electrolytic, and mechanical methods for, 25:46542(T) (ORNL-tr-2489)
PuO_2—UO_2, reprocessing of stainless steel-clad, halide volatility method for, 25:32039 (CEA-N-1419, pp 271-96)
PuO_2—UO_2, reprocessing of stainless steel-clad, salt-transport techniques for, 22:23107
PuO_2—UO_2, reprocessing of, development of equipment and procedures for, 25:46276(R) (ORNL-TM-3456)
PuO_2—UO_2, reprocessing stainless steel-clad fuel of, by fluoride volatility methods, 24:9428 (EURAEC-2088)
PuO_2—UO_2, reprocessing using chlorine trifluoride and fluorine, effects of fission products on, 22:4230(R) (EURAEC-1920)
PuO_2—UO_2, restructuring temperatures and kinetics for fuels of, in-pile, (E/T), 25:44124 (ORNL-TM-3387)
PuO_2—UO_2, segregation in, analysis of mechanisms for, (T), 25:29821(R) (GEAP-12153)
PuO_2—UO_2, separation of chlorides from, precipitation and sintering methods for, 21:34316 (ISO-SA-39)
PuO_2—UO_2, separation of contaminants from fuels of, solvent extraction method for, 22:27845 (CEA-N-816, pp 150-276)
PuO_2—UO_2, separation of fission products from irradiated, 21:30498(R) (EURAEC-1832)
PuO_2—UO_2, separation of fission products from irradiated fuels of, by solvent extraction, 25:32037 (CEA-N-1419, pp 235-56)
PuO_2—UO_2, separation of plutonium and uranium from reactor fuels of, fluid-bed volatility process for, 21:45192 (ANL-7325, pp 50-98)
PuO_2—UO_2, separation of plutonium and uranium from, by fluid-bed fluoride volatility process, 21:4591 (ANL-7125, pp 61-106)
PuO_2—UO_2, separation of plutonium and uranium from fuels of, by bluid-bed fluoride volatility process, 21:45192 (ANL-7325, pp 50-98)
PuO_2—UO_2, separation of plutonium and uranium from fuels of, by solvent extraction using TBP, hydrolysis and radiolysis during, 23:31397 (CEA-CONF-1265)
PuO_2—UO_2, separation of plutonium and uranium in, effects of temperature gradient on, (E/T), 25:8138 (NP-18556)
PuO_2—UO_2, separation of plutonium from, 23:13839
PuO_2—UO_2, separation of plutonium from breeder reactor fuels of, by selective reduction, 23:13819 (CEA-CONF-1197)
PuO_2—UO_2, separation of plutonium from, by fusion and ion exchange, 22:22930(R) (NBL-242)
PuO_2—UO_2, separation of volatile fission products from fuels of, heating-oxidation method for, 23:353 (ORNL-4272, pp 34-55)
PuO_2—UO_2, settling rates of aerosols of, 23:40913 (BNL-50149, pp 123-52)
PuO_2—UO_2, sintering and pellet pressing of, 21:19750
PuO_2—UO_2, sintering behavior of, effect of stoichiometry on, 22:24925(R) (ANL-7427)
PuO_2—UO_2, sintering fuel pellets of, 21:32951(R) (BMI-1798)
PuO_2—UO_2, sintering of, effects of heat treatment on, 21:32956
PuO_2—UO_2, solubility of pellets of, statistical study of effects of fabrication variables on, 25:42954 (HEDL-SA-131)
PuO_2—UO_2, solubility of, effects of neutron radiation and fabrication variables on, 25:46539 (BNWL-1581)
PuO_2—UO_2, specific power limits in liquid metal cooled fast breeder reactors, 25:31569 (ORNL-TM-3388)
PuO_2—UO_2, stoichiometry of irradiated, lattice constant measurement method for determination of, 25:52461
PuO_2—UO_2, stoichiometry of mixed fuels of, method for determining, 24:12462 (BNWL-1223, pp 2.1-28)
PuO_2—UO_2, stoichiometry shift in mixed, effects of burnup on, (E/T), 25:28690(T) (EURFNR-836)
PuO_2—UO_2, surface areas of coprecipitated and mechanically blended, effects of zirconium dioxide on, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2, swelling during irradiation in liquid metal cooled fast breeder reactors, limits for, 25:31569 (ORNL-TM-3388)
PuO_2—UO_2, swelling of fast reactor fuel elements of, effects of fission gas release on, (E/T), 24:38552
PuO_2—UO_2, swelling of irradiated, effects of fission products on, 21:38759
PuO_2—UO_2, swelling of, model for solid fission product-induced, 24:14965 (GEAP-5583)
PuO_2—UO_2, temperature coefficients of criticality in water-moderated fuel elements of, comparison of computer calculated with measured, 23:4340
PuO_2—UO_2, temperature limits for fuel elements of mixed, 25:34368
PuO_2—UO_2, temperature measurements above 4000°F in, thermocouples for in-pile, 21:20534 (CONF-660511-, pp 7.5.1-6)
PuO_2—UO_2, temperature profile in cylindrical fuel elements of, PROFIL computer program for, 23:17282 (ORNL-TM-2443)
PuO_2—UO_2, tensile properties at 25°C, anelastic and elastic, 24:21432
PuO_2—UO_2, tensile properties of, at 25 to 1300°C, 23:51115
PuO_2—UO_2, testing fuel elements of, safety evaluation of EBR-II in-pile, 24:23541 (ORNL-TM-2635)
PuO_2—UO_2, testing of encapsulated fuels of, in TREAT, 24:44760 (ORNL-4560, pp 3-38)
PuO_2—UO_2, testing of irradiated, nondestructive, 21:24833 (GEAP-5433)
PuO_2—UO_2, thermal capacity at 1600°K to melting, 25:22175
PuO_2—UO_2, thermal conductivity and diffusivity of, effects of stoichiometry on, 23:11351 (BNWL-919, pp 5.1-17)
PuO_2—UO_2, thermal conductivity and diffusivity of, at 800 to 1800°C, 24:14916
PuO_2—UO_2, thermal conductivity and restructuring of fuels of, in-pile, (E/T), 25:5992
PuO_2—UO_2, thermal conductivity at 50 to 2500°C, effects of stoichiometry on, 23:18207 (CEA-CONF-1139)
PuO_2—UO_2, thermal conductivity at 800 to 1900°C, 22:19625 (GEAP-4879)
PuO_2—UO_2, thermal conductivity for 1000 MW(e) LMFBR fuel of, at 0 to 5000°F, 22:9990(R) (BAW-1312)
PuO_2—UO_2, thermal conductivity in compacted powder reactor fuels of, (E/T), 22:27485 (EURAEC-1998)
PuO_2—UO_2, thermal conductivity of, 22:28934
PuO_2—UO_2, thermal conductivity of, 22:43663
PuO_2—UO_2, thermal conductivity of fuels of, 21:24833 (GEAP-5433)
PuO_2—UO_2, thermal conductivity of fuels of, effect of stoichiometry on, 23:10275
PuO_2—UO_2, thermal conductivity of high burnup, measurement of 1200°C to melting, (E), 25:54288 (GEAP-13703)
PuO_2—UO_2, thermal conductivity of physically mixed, at 800 to 2400°C, 25:4862
PuO_2—UO_2, thermal conductivity of solid solutions of, at 100 to 1200°C, 24:34971 (BNWL-1349-1, pp 2.1-39)
PuO_2—UO_2, thermal conductivity of steel-clad fuel elements of, 23:20536 (ORNL-4350, pp 33-66)
PuO_2—UO_2, thermal conductivity of Type 316 and Type 347 stainless steel-clad, analysis of, 22:50732(R) (GEAP-5631)
PuO_2—UO_2, thermal conductivity of varying stoichiometry of, measurement of, 22:48790
PuO_2—UO_2, thermal conductivity of, at 800 to 2800°C, 24:17360(R) (WARD-4135-1)
PuO_2—UO_2, thermal conductivity of, effects of burnup on, 25:26074(T) (EURFNR-817)
PuO_2—UO_2, thermal conductivity of, effects of burnup on, 25:24627(T) (LIB/Trans-346)
PuO_2—UO_2, thermal conductivity of, effects of burnup on, 25:4839 (KFK-1245)
PuO_2—UO_2, thermal conductivity of, effects of composition and temperature on, (E), 25:18246 (WHAN-SA-80)
PuO_2—UO_2, thermal conductivity of, effects of stoichiometry on, 23:10276
PuO_2—UO_2, thermal conductivity of, effects of temperature and stoichiometry on, (E/T), 22:50731 (GEAP-5556)
PuO_2—UO_2, thermal diffusivity of, 24:23540(T) (JAPFNR-6)
PuO_2—UO_2, thermal diffusivity of, effects of plutonium dioxide content on, 23:39065 (BNWL-1058, pp 5.1-58)
PuO_2—UO_2, thermal diffusivity of, electron beam method for measurement of, 24:39706
PuO_2—UO_2, thermal diffusivity of, modulated electron beam measurements of, 24:10145(R) (PNCT-AR-68)
PuO_2—UO_2, thermal expansion of fuel elements of, effects of stoichiometry on, 22:4878
PuO_2—UO_2, thermal expansion of pellet of, 25:48263 (ORNL-TM-3508)
PuO_2—UO_2, thermal expansion of solid solutions of, 21:8150
PuO_2—UO_2, thermal expansion of stoichiometric, 22:13060 (BNWL-473, pp 4.1-9)
PuO_2—UO_2, thermal migration studies of, analysis of, 22:53260 (ANL-7425, pp 130-71)
PuO_2—UO_2, thermal properties of pellets of, 22:30200
PuO_2—UO_2, thermal properties of, effects of stoichiometry on, 22:30386
PuO_2—UO_2, thermally induced segregation of, research program on, 21:30093(R) (ANL-7317)
PuO_2—UO_2, thermochemical and thermodynamic data on mixed, for fabricating fuel pins, 23:22620(R) (WARD-3791-28).
PuO_2—UO_2, thermodynamic properties of, 21:42729(R) (LA-3745)
PuO_2—UO_2, thermodynamic properties of nonstoichiometric solid solutions in, 22:4882
PuO_2—UO_2, thermodynamic properties of solid solutions in, review of, 21:33000

PuO_2—UO_2, thermodynamic properties of solid-solution, 22:31479
PuO_2—UO_2, thermodynamic properties of, at high temperatures, 24:6256(R) (GEAP-12027)
PuO_2—UO_2, thermodynamic properties of, for reactor fuels, 22:31480
PuO_2—UO_2, thermodynamics of reactions of, with bonding and fuel cladding, 23:24993 (ORNL-TM-2494)
PuO_2—UO_2, transient radiation effects on, neutron radiography analysis of, 22:32970(R) (GEAP-5584)
PuO_2—UO_2, transient radiation effects on, temperature distribution from, 22:32970(R) (GEAP-5584)
PuO_2—UO_2, uranium activity in solid solutions of, transpiration method for studying, 25:29821(R) (GEAP-12153)
PuO_2—UO_2, uranium activity in solid solutions of, transpiration method of studying, 25:35547(R) (GEAP-12182)
PuO_2—UO_2, uranium activity in, at 1315°C, determination by transpiration, 24:19496(R) (GEAP-12047)
PuO_2—UO_2, uranium activity in, at 1320 to 1407°C, 24:39702(R) (GEAP-12066)
PuO_2—UO_2, uranium activity in, at high temperature, determination by transpiration, 24:19495(R) (GEAP-12032)
PuO_2—UO_2, uranium activity in, determination by transpiration using carbon oxides as carrying gases, 24:46783(R) (GEAP-12099)
PuO_2—UO_2, uranium distribution in, effects of composition and thermal gradients on, 25:52463
PuO_2—UO_2, use in demonstration core for fast sodium-cooled reactor, 23:11234 (APDA-231)
PuO_2—UO_2, use in fuel rods, comparison with uranium dioxide fuel, 22:7048
PuO_2—UO_2, vapor pressure at 1500 to 1800°C, effects of stoichiometry on, 24:39724(R) (BMI-1884)
PuO_2—UO_2, vaporization of solid solutions of, research progress on studies of, 25:35547(R) (GEAP-12182)
PuO_2—UO_2, vaporization of, aerosol properties of high-temperature, (E), 21:46962 (BNL-11612)
PuO_2—UO_2, volatility of, effects of plutonium concentration on, 22:45141(R) (EURAEC-2030)
PuO_2—UO_2, volatilization behavior of nonstoichiometric, at 1905 to 2411°K, mass spectrometric study of, 25:11503
PuO_2—UO_2, volume change in pneumatically impacted, effects of annealing to 1400°C on, 21:46025(R) (BNWL-CC-761)
PuO_2—UO_2, wetting by sodium at 147 to 456°C, 24:34969 (BMI-1882, Sect.A)
PuO_2—UO_2—U_3O_8, phase studies of, 24:27869 (EUR-4136)
PuO_2—UO_2—WO_3, reduction to tungsten-modified carbide fuels, carbothermic, 25:58365 (AI-AEC-12983)
PuO_2—UO_2—ZrO_2, burnup of Type 347 stainless steel-clad pellet-shaped, analysis of 1.2 x 10^{20} fission/cm^3, 23:2031(R) (NUMEC-3505-33)
PuO_2—UO_2—ZrO_2, crystal structure of, effects of annealing, oxidation, and sintering on, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2—ZrO_2, fabrication and properties of fuels of, 21:14870(R) (NUMEC-3505-5)
PuO_2—UO_2—ZrO_2, fabrication and properties of, for use as fuels, 21:11277(R) (NUMEC-3505-21)
PuO_2—UO_2—ZrO_2, fuel development program for thermal reactors during July to September 1967, 23:2031(R) (NUMEC-3505-33)
PuO_2—UO_2—ZrO_2, impurities in, effects of pellet composition on chlorine and fluorine, 23:2031(R) (NUMEC-3505-33)
PuO_2—UO_2—ZrO_2, melting points for, effects of pellet compositions on, 23:2031(R) (NUMEC-3505-33)
PuO_2—UO_2—ZrO_2, microstructure of, effects of pellet composition and annealing time and temperature on, 23:2031(R) (NUMEC-3505-33)
PuO_2—UO_2—ZrO_2, phase studies of, 21:31103(R) (NUMEC-3505-24)
PuO_2—UO_2—ZrO_2, phase studies of, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2—ZrO_2, physical properties of sintered pellets of, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
PuO_2—UO_2—ZrO_2, porosity of, effects of moist hydrogen—nitrogen system on, 21:31103(R) (NUMEC-3505-24)
PuO_2—UO_2—ZrO_2, preparation and properties of, 21:32957
PuO_2—UO_2—ZrO_2, preparation and properties of sintered pellets of, 21:515(R) (NUMEC-3505-18)
PuO_2—UO_2—ZrO_2, preparation of irradiation test pellets of, 21:6894
PuO_2—UO_2—ZrO_2, properties as reactor fuel, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2—ZrO_2, radiation effects on, tests for evaluation of, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2—ZrO_2, surface areas of coprecipitated and mechanically blended, 22:45816(R) (NUMEC-3505-27)
PuO_2—UO_2—ZrO_2-base, phase diagrams and thermal properties of, 22:19649(R) (NUMEC-3505-30)
PuO_2—UO_2-base, compatibility of helium- and sodium-bonded hypostoichiometric, with Type 304 stainless steel cladding at 650 to 1000°C, 23:41726 (BNWL-1101)
PuO_2—UO_2-base, compatibility testing in sodium-bonded stainless steel capsules at 650 and 1000°C, 24:14866(R) (BNWL-658)
PuO_2—UO_2-base, creep at 1100 to 1300°C, measurement of compressive, 25:4861
PuO_2—UO_2-base, creep behavior during irradiation, design and operation of equipment for studying, 25:16568 (BMI-1894)
PuO_2—UO_2-base, creep of polycrystalline, at 1100 to 1330°C, effects of density, grain size, and stress on compressive, 25:11496
PuO_2—UO_2-base, creep testing of, 23:50978(R) (BNWL-971)
PuO_2—UO_2-base, fabrication into clad fuel pins for irradiation testing, 24:1065 (BAW-3714-11)
PuO_2—UO_2-base, fabrication of fuels of, use of sintered pellet scrap in, 24:32487
PuO_2—UO_2-base, fabrication of pellets of, for high-temperature creep studies, 23:46121 (BNWL-1144, pp 5.1-40)
PuO_2—UO_2-base, fabrication of uranium-235-enriched fuel pins of, 24:12452(R) (BAW-3714-15)
PuO_2—UO_2-base, fabrication of, chamotte and sintering methods for, 24:36995 (CEA-N-1254)
PuO_2—UO_2-base, fabrication of, chamotte and sintering methods for, 25:781(T) (ORNL-tr-2387)
PuO_2—UO_2-base, fission product degassing in, effects of densification on, 24:36995 (CEA-N-1254)
PuO_2—UO_2-base, fission product ingots from irradiated fuel elements of, composition of, 24:42296
PuO_2—UO_2-base, fission product release from, effects of densification on, 25:781(T) (ORNL-tr-2387)
PuO_2—UO_2-base, melting heat of, effects of stoichiometry on, 24:1079 (BNWL-CC-1490)
PuO_2—UO_2-base, melting heat of, effects of stoichiometry on, 24:14866(R) (BNWL-658)
PuO_2—UO_2-base, microstructure of high-temperature fired pellets of, chemical and vacuum cathodic etching methods for determination of, 24:27886
PuO_2—UO_2-base, microstructure of irradiated fuels of, effects of nonstoichiometry on, 23:12441 (BNWL-SA-2030)
PuO_2—UO_2-base, molybdenum-99 distribution in irradiated fuel pins of, 25:4804
PuO_2—UO_2-base, molybdenum-99 distribution in irradiated fuel pins of, 25:4891
PuO_2—UO_2-base, plutonium homogeneity in sintered, methods for measurement of, 25:4875
PuO_2—UO_2-base, preparation and properties of sintered pellets of, 24:44772
PuO_2—UO_2-base, preparation of sintered pellets of, 21:18308(R) (BMI-1784)
PuO_2—UO_2-base, preparation of sol-gel microspheres and coprecipitated powders of uranium-235-enriched, 25:24618(R) (BAW-3714-19)
PuO_2—UO_2-base, preparation of uranium-235-enriched powdered fuels of, 24:12452(R) (BAW-3714-15)
PuO_2—UO_2-base, production of high quality fuel pellets of, development program for, 24:46769 (BNWL-1445)
PuO_2—UO_2-base, radiation effects on clad fuel pins of, relations of helium—xenon fuel-to-clad filler with in-pile, 24:12483 (BNWL-1223, pp 3.1-68)
PuO_2—UO_2-base, radiation effects on densification of, in-pile, 25:781(T) (ORNL-tr-2387)
PuO_2—UO_2-base, radiation effects on densification of, in-pile, 24:36995 (CEA-N-1254)
PuO_2—UO_2-base, radiation effects on diffusion in fuels of, in-pile, 24:12483 (BNWL-1223, pp 3.1-68)
PuO_2—UO_2-base, radiation effects on low-density rods of, at 12,000 MWd/t, 22:41125 (BNWL-SA-1679)
PuO_2—UO_2-base, radiation effects on microstructure of fuel pins of, relations of melting with in-pile, 24:12483 (BNWL-1223, pp 3.1-68)
PuO_2—UO_2-base, radiation effects on performance of fuel pins of, clad with Incoloy 800 or Type 316 or 347 stainless steel, fast neutron, 24:30053 (GEAP-13549)
PuO_2—UO_2-base, radiation effects on thermal properties of stainless steel-clad fuel elements of, thermal neutron, 24:34975 (EURAEC-2137)
PuO_2—UO_2-base, radioinduced porosity in sintered, electron microscopic study of, 25:52473(T) (JPRS-53800, pp 188-95)
PuO_2—UO_2-base, radioinduced solids composition at burnup of 5.6 x 10^{20} fissions/cm^3 in fuel pins of, fast neutron, 23:12444
PuO_2—UO_2-base, reactions of irradiated, with Type 304 stainless steel fuel cladding, mechanisms for, 24:14987
PuO_2—UO_2-base, thermal conductivity and diffusivity at 100 to 1200°C, effects of oxygen stoichiometry on, 23:14393 (BNWL-927)
PuO_2—UO_2-base, thermal conductivity at 50 to 1000°C, effects of porosity on, 25:4844
PuO_2—UO_2-base, thermal conductivity of solid solutions of, at 100 to 1200°C, effects of plutonium dioxide content on, 25:16592
PuO_2—UO_2-base, thermal conductivity of stoichiometric and nonstoichiometric, at 0 to 2000°C, 22:41096 (CEA-R-3488)
PuO_2—UO_2-base—ZrO_2, analysis for carbon, by gas chromatography, 22:19649(R) (NUMEC-3505-30)
PuO_2—UO_2-base—ZrO_2, phase diagrams and thermal properties of, 22:19649(R) (NUMEC-3505-30)
PuO_2—UO_2-base—ZrO_2, radiation effects on, in-pile, 22:19649(R) (NUMEC-3505-30)
PuO_2—W, dissolution of, sealed-tube method for, 21:6801 (LA-3554)
PuO_2—W, vapor pressure of, in vaporization study of PuO_2, 21:3055
PuO_2—ZrO_2, compatibility with TZM alloy at high temperatures, 24:25210(R) (LA-4068)
PuO_2—ZrO_2, compatibility with TZM alloy at high temperatures, 24:25211(R) (LA-4089)
PuO_2—ZrO_2, compatibility with TZM at 900°C, 24:31592(R) (LA-4419)
PuO_2—ZrO_2, development of calcium oxide stabilized, for fuel, 23:8303 (LA-DC-10046)
PuO_2—ZrO_2, fabrication of calcium oxide-stabilized plutonium-238-enriched fuels of, for space power systems, 24:25210(R) (LA-4068)
PuO_2—ZrO_2, fabrication of dispersion nuclear fuel of, in zirconium alloy matrix, 21:5647(P)
PuO_2—ZrO_2, microstructure of calcium oxide-stabilized plutonium-238-enriched fuels of, for space power systems, 24:25210(R) (LA-4068)
PuO_2—ZrO_2, power density of solid-solution radioisotopic fuels of, 22:49785 (LA-DC-9686)
PuO_2—ZrO_2, preparation of microspheres of, 23:359 (ORNL-4272, pp 142-60)
PuO_2—ZrO_2, preparation, properties, and phase relations of, 22:2699
PuO_2—ZrO_2, properties of plutonium-238-enriched fuel disks of, for space power systems, 24:25211(R) (LA-4089)
PuO_2—ZrO_2, properties of solid solutions of, data tabulations on, 24:25210(R) (LA-4068)
PuO_2—ZrO_2, radiation effects on fuels of, review on, 22:8804
PuO_2—ZrO_2, separation of plutonium from, pyrochemical methods for, 25:18492 (ANL-7709)
PuO_2—ZrO_2, thermal diffusivity of solid solutions of, at 700 to 1200°C, 24:25211(R) (LA-4089)

PLUTONIUM OXIDES PuO_3
  Li_2O—PuO_3, crystal structure of ternary oxides formed by, 23:22678(T) (ANL-Trans-728)
  Li_2O—PuO_3, thermal stability of compounds formed by, 23:22678(T) (ANL-Trans-728)
  Na_2O—PuO_3, crystal structure of ternary oxides formed by, 23:22678(T) (ANL-Trans-728)
  Na_2O—PuO_3, thermal stability of compounds formed by, 23:22678(T) (ANL-Trans-728)

PLUTONIUM OXIDES Pu_2O_3
  critical mass of bare and water-reflected aqueous, 21:8036(R) (BNWL-315)
  critical mass of undermoderated spheres of, density effects on, (T), 21:34161
  crystal structure and thermodynamics of, 22:23007 (UJV-1832)
  crystal structure of, temperature coefficients and interionic distances in, 25:20995
  electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  magnetic susceptibility of, (E), 23:27698
  radiation effects on mechanical properties and microstructure of, neutron, 23:10296 (BNWL-SA-1969)
  vaporization of, 22:23007 (UJV-1832)
  C—PuO_2—Pu_2O_3, preparation of carbon-coated particles of, 23:20538(P)
  PuO_2—Pu_2O_3—UO_2, phase studies of, 24:42273

PLUTONIUM OXYCARBIDES
  PuOC—UOC, preparation and properties of, 21:11279(R) (UNC-5117)
  PuOC—UOC, preparation, fabrication, and properties as reactor fuel, 21:32986

PLUTONIUM OXYFLUORIDES
  stability of PuOF, 25:15625 (ORNL-4622, pp 60-118)

Plutonium(VI) Oxyfluorides
    see Plutonyl Fluorides

PLUTONIUM OXYHALIDES
  thermodynamic properties of, 21:25831

PLUTONIUM OXYSELENIDES
  description of, 25:22188

PLUTONIUM OXYSULFIDES
  description of, 25:22188
  preparation and structure of PuOS and $Pu_4O_4S_3$, 21:27914

PLUTONIUM OXYTELLURIDES
  description of, 25:22188

PLUTONIUM PEROXIDES
  preparation and properties of pentavalent, 25:57400

PLUTONIUM PHOSPHATES
  preparation, properties, and reactions of, review of, 22:2089
  separation from aqueous solutions, methods for, 21:35895

PLUTONIUM PHOSPHIDES
  crystal structure of, 22:37720
  crystal structure of, relations with physical properties, 24:25768 (ANL-7417, pp 25-36)
  density of sintered, 23:34087
  development for advanced power reactor fuel, 21:23659
  electric conductivity and thermoelectric power at 298 to 1000°K, 22:43631 (ANL-7299, pp 120-37)
  electric conductivity of, 22:26085
  electric properties and electronic configuration at 300 to 1000°K of, 21:13631
  heat capacities from 25 to 650°C, 21:40694 (ANL-7349, pp 92-109)
  magnetic properties of PuP, (E/T), 24:10641
  microstructure of pressure sintered, 23:34087
  nuclear magnetic resonance of PuP, (E/T), 24:10641
  nuclear relaxation in, above Curie temperature, (E/T), 23:39571
  phase studies of, 22:2655
  physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
  preparation and properties of, 21:32959
  preparation of, 21:45993(P)
  preparation of PuP, method for, 21:89(P)
  preparation of uranium carbide mixtures of, for fast breeder reactor fuels, 22:11037(P)
  preparation of, from plutonium hydride, 21:13245
  preparation, crystal structure, and melting points of, 22:8061
  preparation, properties, and phase relation of, review of, 22:2699
  preparation, properties, and reactions of, review of, 22:2089
  production and properties of fuels of, 25:52468 (A/CONF.49/P-454)
  production process for high-density fuels of, 21:26888(P)
  properties of sintered, 21:13245
  properties of, for use as fuels, 21:11190 (ANL-7155, pp 1-166)
  properties of, nuclear and physical, 23:19543
  sintering of, 21:13245
  thermal conductivity and thermal capacity at 25 to 650°C, 22:45818
  thermal conductivity of, 22:26085
  PuP—UC, fabrication of fuel elements of, vibratory compaction method for, 23:8278(P)

Plutonium Potassium Oxalates
    see Potassium Plutonium Oxalates

Plutonium Production Reactors
    see Reactors, Production

PLUTONIUM RECYCLE CRITICAL FACILITY
  control elements in, effects of Lucite on negative reactivity worth of hollow cadmium rod, 22:16269 (BNWL-618)
  control elements of, reactivity worth measurements for, 23:31236(R) (BNWL-1039)
  control rod worth measurements in, endogenous pulsed source technique for, 22:53454 (BNWL-828)
  control rods for Phoenix-fueled, calibration of, 22:22804(R) (BNWL-685)
  coolant loss effects on reactivity variations in, 22:12085 (BNWL-472, pp 3.1-33)
  core for, description of critical mockup of MTR-Phoenix fueled, 22:22804(R) (BNWL-685)
  core loading and testing in, using Phoenix fuel, 22:12085 (BNWL-472, pp 3.1-33)
  core loadings for, reactivity measurements for uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:32743(R) (BNWL-739)
  core of, physics measurements for Phoenix fueled MTR mockup, (E/T), 25:18170 (BNWL-1481)
  critical experiments in, 21:30103(R) (BNWL-400)
  critical experiments in Batch Core fueled, spectrum and leakage correction to effective multiplication factors in, 23:47339(R) (BNWL-1106)
  critical experiments in water moderated and reflected lattices in, ratio of effective delayed neutron fraction to mean neutron lifetime for, (E/T), 23:47339(R) (BNWL-1106)
  critical loading for poison-free core in, measurements of, 21:30251 (BNWL-372)
  critical parameters of water moderated mixed oxide fuel assemblies in, (E/T), 24:43853 (BNWL-SA-1107)
  criticality measurements for, effects of boron concentration on, 23:9237(R) (BNWL-907)
  criticality of heavy water-moderated plutonia—urania lattices in, 21:8069
  criticality studies in heavy water-moderated plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled 19-rod cluster-arranged, comparison of computer calculated with measured, 23:4358
  delayed neutron fraction in, comparison of measured and calculated ratios of prompt neutron lifetime to, 24:7238
  fuel cell thermal reaction rate traverse in, (E/T), 23:15738(R) (BNWL-963)
  fuel element assemblies in, critical experiments in water-moderated plutonia—urania, 21:38722
  fuel elements for, fabrication costs of, 21:15783 (BNWL-131-E)
  fuel elements in, power distributions in Phoenix, 22:14289 (BNWL-635)
  fuel plates for, effects of fabrication on, 21:40541(R) (BNWL-492)
  kinetic parameters of 7- and 13-element cores in, (E/T), 23:15738(R) (BNWL-963)
  multiplication factors for Batch Core fueled, effective, (E/T), 23:15738(R) (BNWL-963)
  neutron buckling measurements in, axial and radial, 21:38722
  neutron flux peaking and dipping in 13 element core of, gold foil activation analysis of, 23:33080(R) (BNWL-1053)
  neutron flux peaking and dipping in 13 element core of, gold foil activation analysis of, 23:31236(R) (BNWL-1039)
  neutron multiplication factor measurements in, 21:38722
  neutron noise in heavy water moderated plutonium oxide (PuO_2)—uranium oxide (UO_2) 19 rod cluster, (E/T), 23:31236(R) (BNWL-1039)
  neutron noise in heavy water moderated plutonium oxide (PuO_2)—uranium oxide (UO_2) 19 rod cluster, (E/T), 23:33080(R) (BNWL-1053)
  noise measurements in plutonium and uranium fueled water moderated lattices in, determination of effective delayed neutron fraction to prompt neutron lifetime ratio from, (E/T), 25:23413
  noise measurements in uranium oxide (UO_2)—plutonium oxide (PuO_2) lattices in water, ratio of effective delayed neutron fraction to prompt neutron lifetime from, (E/T), 25:41566
  operations summary of, 21:31903(R) (BNWL-CC-500)
  physics characteristics of heavy water moderated uranium oxide(UO_2)—plutonium oxide (PuO_2) batch cores in, (E/T), 24:50181 (BNWL-1453)
  physics characteristics of MTR Phoenix-fuel core mockup in, 22:27459 (BNWL-634, pp 3.1-27)
  physics measurements in Batch core fueled, theoretical analysis correlation with, 23:17246(R) (BNWL-985)
  physics measurements on plutonium oxide (PuO_2)—uranium oxide (UO_2)—water lattices in, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
  power peaking calculations in water moderated plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled cores in, 22:12085 (BNWL-472, pp 3.1-33)
  power profiles for Phoenix-fueled, measurement of, 23:6020(R) (BNWL-887)
  reactivity calculations for Phoenix core in, 22:12085 (BNWL-472, pp 3.1-33)
  reactivity coefficients for 13-element core in, moderator level, (E/T), 23:15738(R) (BNWL-963)
  reactivity temperature coefficients of PRTR Batch Core loading in, (E/T), 22:53454 (BNWL-828)
  reactivity worth measurements of Phoenix core in, 22:14251(R) (BNWL-534)
  reactivity worth of hafnium oxide rods in, 21:8103
  safety system for, reactivity worths of, 22:22804(R) (BNWL-685)
  temperature coefficient of reactivity measurements in Phoenix-fueled, 22:22804(R) (BNWL-685)
  void measurements in Phoenix-fueled, 22:22804(R) (BNWL-685)
Plutonium Recycle Reactor Experiment
    see Plutonium Recycle Test Reactor

PLUTONIUM RECYCLE TEST REACTOR
  component corrosion surveillance for, description of inspection methods and results through December 1967, 22:42163 (BNWL-726)
  containment vessel for, leakage rate test of, 21:44933 (BNWL-504)
  control rod worth in Batch Core, measurement of, 23:9237(R) (BNWL-907)
  control rod worths in, measurement of poison, 25:34327 (BNWL-1553)
  coolant of, reactivity worth of heavy water, (E/T), 24:29044 (BNWL-1352)
  coolant-flow instabilities in, effects of boiling on, 22:51174
  cooling system decontamination process for, description of primary, 22:22805 (BNWL-711)
  cooling system decontamination, description of process for primary, 22:22816 (HW-75557(Rev.)(Del.))
  cooling system of, radioactivity buildup measurements in primary, 22:53454 (BNWL-828)
  cooling system of, use of alkaline permanganate and citrate—oxalate acid solution for decontamination of primary, 21:24140
  cooling system pumps of, procedures for repair of casting flaws in 8 inch Type 304 stainless steel check valve for, 24:11227 (BNWL-SA-2616)
  core for, critical experiments with plutonia—urania, 21:38533
  core for, interim critical tests on Batch, 22:22804(R) (BNWL-685)
  core heat transfer in, calculation of, 21:19458(R) (BNWL-300)
  core lifetime for, use of Phoenix fuels in calculations of, 22:14289 (BNWL-635)
  creep test facility for, 21:31059(R) (HW-84517)
  critical parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2) batch core in, (E/T), 25:34327 (BNWL-1553)
  critical tests in, analysis of Batch Core, 22:53454 (BNWL-828)
  criticality calculations for, effects of using Phoenix fuels on, 22:14289 (BNWL-635)
  criticality measurements for heavy water-cooled and-moderated 55-element Batch Core of, 23:13539(R) (BNWL-921)
  criticality of heavy water cooled and moderated 31 and 55 element cores in, (E/T), 23:33080(R) (BNWL-1053)
  criticality of, measurements for Test 4, 24:7353(R) (BNWL-1224)
  criticality of, measurements for Test 4, 24:7168(R) (BNWL-1240)
  criticality tests on heavy water-moderated plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled 19-rod cluster-arranged, analysis of interim, 23:4189
  deactivation of, 24:16317(R) (BNWL-1289)
  development and operation of, correlation to heavy water power reactors, 21:38661 (BNWL-SA-1269)
  fuel assembly reactivity worth in, radiation effects of 7300 MWd on, 23:6020(R) (BNWL-887)
  fuel burnup at high-power density in, performance of Zircaloy-clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type fuel elements during, 23:13502 (BNWL-SA-1979)
  fuel burnup calculations for Batch Core Experiment, 23:15738(R) (BNWL-963)
  fuel burnup calculations for Batch Core in, 23:33080(R) (BNWL-1053)
  fuel burnup calculations for Batch Core in, 23:17246(R) (BNWL-985)
  fuel burnup calculations for, errors in computer code, 23:47233(R) (BNWL-1150)
  fuel burnup in Batch Core of, radiochemical and mass spectrometric analysis of, 24:46122(R) (BNWL-1381-2)
  fuel burnup in, effects of cross section uncertainties on, 22:20906 (BNWL-SA-1485)
  fuel burnup in, theory experiment correlation for, 21:38660 (BNWL-393)
  fuel burnup of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2) in, analysis of, 23:4401
  fuel burnup of, analysis of radiation effects in, 22:32743(R) (BNWL-739)
  fuel burnup testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) rods in, 22:20779 (BNWL-624, pp 3.1-159)
  fuel element assemblies of, radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:7353(R) (BNWL-1224)
  fuel element assembly of, thermocouple configuration for temperature measurement in plutonium oxide (PuO_2)—uranium oxide (UO_2) 19 rod cluster, 24:7185
  fuel element burnup analysis, 22:12085 (BNWL-472, pp 3.1-33)
  fuel element clusters in, effects of one and two dimensional lattice cell representations on physics parameters of, (T), 24:16317(R) (BNWL-1289)
  fuel element dissolution for, by ammonium fluoride—nitric acid system, 21:5987 (BNWL-204(Pt.2))
  fuel element failure incident at, health physics aspects of recovery and decontamination following, 22:37529 (BNWL-752)
  fuel element failure on September 29, 1965 in, fission product monitoring for, 22:32744 (BNWL-SA-668)
  fuel element irradiation testing in, 21:46952
  fuel element irradiations in, conditions for plutonium experimental, 21:44935 (BNWL-SA-1204)
  fuel element performance in, burnup effects on plutonium dioxide—uranium dioxide, 22:2707 (BNWL-SA-1346)
  Fuel Element Recycle Test Facility for, measurement of fuel element reactivity worths in, 22:14251(R) (BNWL-534)
  fuel element rupture in, description of, 22:22816 (HW-75557(Rev.)(Del.))
  fuel element rupture in, investigation of effect of fused urania—water reaction in, 21:23590 (BNWL-362)
  Fuel Element Rupture Test Facility of, irradiation testing of mixed-oxide fuels in, 22:53454 (BNWL-828)
  Fuel Element Rupture Test Facility of, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) rods in, 23:9237(R) (BNWL-907)
  fuel element rupture testing facility for, design of, 21:8040 (HW-63863)
  fuel element testing in, status of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:47339(R) (BNWL-1106)
  fuel element testing in, status of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:31236(R) (BNWL-1039)
  fuel element testing in, status of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:9237(R) (BNWL-907)
  fuel element testing in, status of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:15738(R) (BNWL-963)
  fuel element testing in, status of high power density plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:53454 (BNWL-828)
  fuel element testing under molten-center conditions in, 23:8361
  fuel elements for, design of 19-rod cluster, 23:11705
  fuel elements for, effects of burnup on gas pressure buildup in plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:32814
  fuel elements for, fabrication costs of, 21:15783 (BNWL-131-E)
  fuel elements for, internal gas pressure buildup in irradiated mixed oxide, (E/T), 24:46051
  fuel elements for, irradiation performance of mixed oxide, (E), 24:26835(R) (BNWL-1358)
  fuel elements for, irradiation performance of mixed oxide, (E), 24:16317(R) (BNWL-1289)
  fuel elements for, irradiation performance of Zircaloy clad uranium oxide (UO_2) and plutonium oxide (PuO_2) —uranium oxide (UO_2) rod type, 24:43857(R) (BNWL-1442)
  fuel elements for, physics characteristics of thorium-containing, (T), 22:20905 (BNWL-624, pp 5.1-16)
  fuel elements for, pressure measurement equipment for, 22:19669 (BNWL-624, pp 2.1-32)
  fuel elements for, production and quality control of, 21:19459 (BNWL-349)
  fuel elements for, reactivity worth measurements for, 22:22804(R) (BNWL-685)
  fuel elements in, boiling burnout limits for 8-rod, (E/T), 22:20905 (BNWL-624, pp 5.1-16)
  fuel elements in, effects on reactivity of plutonium variation in, 22:22804(R) (BNWL-685)
  fuel elements in, irradiation of plutonium, 22:6124
  fuel elements of, performance of instrumented plutonium oxide (PuO_2)—uranium oxide (UO_2), 24:18706 (CONF-690910-, pp 296-306)
  fuel for, physics characteristics of plutonium Phoenix, (T), 22:27459 (BNWL-634, pp 3.1-27)
  fuel for, physics characteristics of thorium—uranium, (T), 22:27459 (BNWL-634, pp 3.1-27)
  fuel irradiation in, physics aspects of batch core plutonium-enriched, 23:17247 (BNWL-SA-2192)
  fuel irradiation testing for Plutonium Utilization Program, plans for, 21:4412 (BNWL-314)
  fuel loadings for, lattice characteristics of Phoenix, 22:14289 (BNWL-635)
  fuel performance for, irradiation tests of plutonia—urania, 21:7977
  fuel rod failure in, 21:7978
  fuel rod irradiation burnup in, transducer for gas pressure measurement in, 23:11924
  fuel rod powers in core and FERTF channels in, measurement of relative, 22:12085 (BNWL-472, pp 3.1-33)
  fuel temperature profiles for, calculation of uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:7396 (BNWL-CC-604)
  fuels at, safety measures for handling of plutonium, 21:36569 (BNWL-SA-1345).
  fuels for, 21:30205
  fuels for, burnup analysis for aluminum—plutonium, 21:19460 (BNWL-CC-904)
  fuels for, burnup data for spent natural uranium oxide (UO_2), (E), 25:37015 (BNWL-1568)
  fuels for, irradiation performance of mixed oxide, 25:18098(R) (BNWL-1522-1)
  fuels for, irradiation performance of plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:48235(R) (BNWL-1522-2)
  fuels for, variation of effective neutron multiplication with enrichment of Phoenix, 22:14289 (BNWL-635)
  Gamma Scan Facility for, improvements in PNL, 23:9237(R) (BNWL-907)
  kinetic parameters of heavy water cooled and moderated 31 and 55 element cores in, (E/T), 23:31236(R) (BNWL-1039)
  lattice measurements for, 22:10050
  loading system for, description of off-load, 22:46921 (TID-24679(Vol.2))
  loading system for, operation and performance of, 22:46920 (TID-24679(Vol.1))
  moderator monitoring for boric acid in, 21:17599
  moderator system of, effects of heavy water solutions of boric acid on, 22:19670 (BNWL-624, pp 6.1-20)
  modifications for, 21:40541(R) (BNWL-492)
  modifications to, 22:20905 (BNWL-624, pp 5.1-16)
  monitoring of environs of, for tritium oxide, 24:25425 (BNWL-CC-547)
  neutron flux in, EPITHET computer program calculation of fast, 23:15618 (AECL-3167)
  neutron fluxes in, ratios of axial peak-to-average, 22:14251(R) (BNWL-534)
  neutron photoproduction calculations for heavy water moderated 19-rod fuel clusters in, 22:12085 (BNWL-472, pp 3.1-33)
  operation during December 1967 to February 1968, description of, 22:32743(R) (BNWL-739)

- operation during June to August 1969, 24:7353(R) (BNWL-1224)
- operation experience of, description of, 22:30232
- operation with high-power-density core, effects of boric acid on corrosion and boron deposition in, 22:10911 (BNWL-520)
- operations during 1961 to 1962, description of, 22:22816 (HW-75557(Rev.)(Del.))
- operations during December 1968 to February 1969, 23:31236(R) (BNWL-1039)
- operations during June to August 1968, 23:9237(R) (BNWL-907)
- operations history of, 21:31902(R) (BNWL-367)
- operations history of, total, 22:1821
- operations summary for March through May 1968, 22:53454 (BNWL-828)
- operations summary for Sept. to Nov. 1968, 23:15738(R) (BNWL-963)
- operations summary of, 21:31903(R) (BNWL-CC-500)
- performance in thermal neutron radiography, 24:36525 (BNWL-1373)
- physics calculations for plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled 19 rod cluster, comparison of one and two dimension, 24:18697(R) (BNWL-1304)
- physics measurements of, comparison of multigroup cross section codes and reactor codes for, 23:47233(R) (BNWL-1150)
- physics measurements on 31 and 55 element cores, (E/T), 23:33080(R) (BNWL-1053)
- power testing in, use of uranium dioxide—2 percent plutonium dioxide fuel for, 22:6125
- power tests for plutonium oxide (PuO_2)—uranium oxide (UO_2) batch core in, 24:31096 (BNWL-1383)
- pressure tube performance in, radiation effects on Zircaloy-2, 21:38679
- pressure tubes in, creep behavior of Zircaloy-2, 22:17154
- pressure tubes in, fretting corrosion of Zircaloy-2, 23:16460 (BNWL-746, pp 9.1-5)
- pressure tubes in, hydrogen and deuterium content in irradiated Zircaloy-2, 23:15738(R) (BNWL-963)
- pressure tubes in, surveillance program for in-reactor inspection and postirradiation evaluation of Zircaloy-2, 23:16482 (BNWL-746, pp 10.1-31)
- pressure tubes of, crack propagation characteristics of Zircaloy-2, 22:53454 (BNWL-828)
- pressure tubes of, crack propagation characteristics of irradiated Zircaloy-2, 23:15738(R) (BNWL-963)
- radiation effects on plutonia—urania fuel elements in, 21:22934 (BNWL-366)
- reactivity control fluid for, development of boron-10 enriched boric acid, 23:37488
- reactivity in, measurement of excess core, 25:34327 (BNWL-1553)
- reactivity of, effects of cross section uncertainties on, 22:20906 (BNWL-SA-1485)
- reactivity variation with burnup of Batch Core fuel in, (T), 22:53454 (BNWL-828)
- safety analyses of increased power levels in, 21:27799 (HW-61236(Suppl.7))
- temperature coefficient of reactivity measurements in, 22:22804(R) (BNWL-685)

- PLUTONIUM SELENIDES
  - crystal structure of, 22:37720
  - crystal structure of, relations with physical properties, 24:25768 (ANL-7417, pp 25-36)
  - phase studies of, 22:2655
  - preparation and properties of, 25:22188
  - preparation, crystal structure, and melting points of, 22:8061
- PLUTONIUM SILICIDES
  - analysis of, for plutonium and silicon, 21:2932 (AERE-R-5280)
  - phase studies of, 22:2655
  - physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
  - preparation of, 21:45993(P)
  - preparation, properties, and phase relation of, review of, 22:2699
  - preparation, properties, and reactions of, review of, 22:2089
- PLUTONIUM SILICON CARBIDES
  - analysis of, for carbon, plutonium, and silicon, 21:2932 (AERE-R-5280)
- PLUTONIUM SUBCRITICAL EXPERIMENT
  - development, Oct.-Dec., 1966, 21:23717(R) (GEAP-5428)
  - operations during April to June 1966, description of, 22:39880(R) (GEAP-5193)
  - physics measurements for 264-rod lattice in, description of, 22:39880(R) (GEAP-5193)
- PLUTONIUM SULFATES
  - analysis of solutions of, for free acids, titration method for, 24:16409(T) (AEC-tr-7141)
  - decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
  - preparation, properties, and reactions of, review of, 22:2089
  - separation from aqueous solutions, methods for, 21:35895
  - solubility in sulfuric acid at 25 and 50°C, effects of acid concentration on, 21:17639
  - stability of tetrahydrate of, 10-yr evaluation of, 25:51546
  - stability of tetrahydrate of, as primary standard, 25:39411(R) (NBL-258)
  - stability of tetrahydrate of, effects of humidity on, 24:26907(R) (NBL-250)
  - thermal decomposition of, dissolved in chloride melts to prepare monocrystalline plutonium dioxide, 24:51195
  - thermodynamic properties of, 21:25831
- PLUTONIUM SULFIDES
    - see also Plutonium Oxysulfides
  - analysis for carbon by combustion—manometric method, 23:11401 (LA-4047)
  - analysis for sulfur, amperometric, 22:8015
  - crystal structure determination, 22:6138(R) (LA-3820)
  - crystal structure of, 22:37720
  - crystal structure of PuS_{1-x} and PuS_2, 24:9269 (CEA-R-3919)
  - crystal structure of, relations with physical properties, 24:25768 (ANL-7417, pp 25-36)
  - crystal structure of, temperature coefficients and interionic distances in, 25:20995
  - density of sintered, 23:34087
  - development for advanced power reactor fuel, 21:23659
  - electric conductivity and thermoelectric power at 298 to 1000°K, 22:43631 (ANL-7299, pp 120-37)
  - electric conductivity of, 22:26085
  - electric properties and electronic configuration at 300 to 1000°K of, 21:13631
  - fabrication, properties, and structure of, 22:64
  - heat capacities from 25 to 650°C, 21:40694 (ANL-7349, pp 92-109)
  - magnetic susceptibilities of PuS, Pu_3S_4, Pu_2S_3, and PuS_2, (E), 23:27698
  - magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
  - microstructure of pressure sintered, 23:34087
  - phase studies of, 22:2655
  - phase studies on, 24:9269 (CEA-R-3919)
  - physical properties for reactor fuels, data manual on, 22:43651 (TRG-Report-1601)
  - preparation and properties of, 25:22188
  - preparation and properties of, 21:32959
  - preparation of, 21:45993(P)
  - preparation of PuS, method for, 21:89(P)
  - preparation of, from plutonium hydride, 21:13245
  - preparation, crystal structure, and melting points of, 22:8061
  - preparation, properties, and phase relation of, review of, 22:2699
  - preparation, properties, and reactions of, review of, 22:2089
  - production and properties of fuels of, 25:52468 (A/CONF.49/P-454)
  - production process for high-density fuels of, 21:26888(P)
  - properties as high-temperature reactor fuel, 23:30169
  - properties of sintered, 21:13245
  - properties of, for use as fuels, 21:11190 (ANL-7155, pp 1-166)
  - radiation effects on chemical properties of fuels of, reactor, 22:64
  - sintering of, 21:13245
  - thermal conductivity and thermal capacity at 25 to 650°C, 22:45818
  - thermal conductivity of, 22:26085
  - thermodynamic properties of, 21:25831
  - PuS—US, analysis for sulfur, amperometric, 22:8015
  - PuS—US, crystal structure, 22:31523
  - PuS—US, magnetic susceptibility measurements, 24:10608 (CEA-R-3912)
  - PuS—US, preparation and properties of fuels of, 21:11190 (ANL-7155, pp 1-166)
  - PuS—US, preparation of solid solutions of, 21:15796
- PLUTONIUM TELLURIDES
  - crystal structure of, 22:37720
  - crystal structure of, relations with physical properties, 24:25768 (ANL-7417, pp 25-36)
  - phase studies of, 22:2655
  - preparation and properties of, 25:22188
  - preparation, crystal structure, and melting points of, 22:8061
  - preparation, properties, and reactions of, review of, 22:2089
- PLUTONIUM TUNGSTATES
  - preparation of, wet method for, 22:33334
  - solubility in acetate and ethanol solutions, 22:33334
- PLUTONIUM URANIUM CARBIDES
  - elastic properties of, 25:2798
  - mechanical properties of, 25:2785 (LA-4452)
  - mechanical properties of, at 73°F, effects of porosity on, 24:51205 (CEA-CONF-1620)
  - Fe—PuUC, analysis of cermets of, for carbon, iron, plutonium, and uranium by electrochemical methods, 22:33215
- PLUTONIUM URANIUM NITRIDES
  - elastic properties of, 25:2798
- PLUTONIUM URANIUM OXIDES
  - analysis for oxygen by inert-gas fusion—gravimetric method, 23:13634
  - mechanical properties of, at 73°F, effects of porosity on, 24:51205 (CEA-CONF-1620)
- PLUTONYL ACETATES
    - see also Sodium Plutonyl Acetates
  - preparation of, 23:21708
- Plutonyl Ammonium Carbonates
    - see Ammonium Plutonyl Carbonates
- PLUTONYL CARBONATES
    - see also Ammonium Plutonyl Carbonates
- PLUTONYL COMPOUNDS
    - (For Pu(VI) compounds only)
  - analysis for ammonia and potassium by ion exchange—tetraphenylborate method, 24:26941
  - complexes with heterocyclic carboxylic acids, preparation and properties of, 25:20965 (KFK-1068)
  - composition of, following precipitation from ammonium hydroxide and pyridine solutions, 24:36262
  - formation of, in aqueous ammonium sulfate solutions and hydrochloric and sulfuric acids, 21:8246
- PLUTONYL FLUORIDES
    - see also Ammonium Plutonyl Fluorides
  - removal from exhaust air, efficiency of filters for, 21:30493 (CONF-660904-Vol.1 and 2, pp 741-61)
  - separation from gas stream, efficiency of filters for, 24:174 (ANL-7575, pp 47-76)
- PLUTONYL IONS
  - complexes with 3-chloropropionate and glycolate in aqueous solution, potentiometric study of, 24:13841
  - complexes with acetates, reaction kinetics for formation of, 23:21708
  - distribution between hydrochloric or nitric acid solutions and zirconium phosphate ion exchanger, equilibrium studies on, 23:33260
  - effects on fluorine determination by titration with thorium nitrate, 22:48815 (FOA-4-4363)
  - effects on spectrophotometric determination of americium, 23:45189
  - electron paramagnetic resonance, 24:30409
  - force constants of, equations for using uranyl ions for estimation of metal—oxygen, 22:14497
  - reduction of, by nitric acid, effects of plutonium-238 on, 21:12380(R) (MLM-1342)
  - solubility in Aliquat 336, 23:47615
  - spectra and structure of, continuities in, 23:19735
  - spectra of, mean amplitude of vibration in, 24:4340
- PLUTONYL NITRATES
  - criticality of aqueous, analysis using GAMTEC-code, 21:8064
  - crystal structure of hydrates of, x-ray diffraction studies on, 21:40959(R) (MLM-1399)
  - separation from aqueous nitric acid solutions containing uranyl nitrate by solvent extraction using TBP, 24:14020
  - spectra of aqueous solutions of, effects of dimethylformamide, dimethyl sulfoxide, and nitric acid on, 22:27650
  - HNO_3—$PuO_2(NO_3)_2$—TBP, phase studies on, by distribution coefficient measurements, 22:6408
- PLUTONYL PERCHLORATES
  - spectra of aqueous solutions of, effects of dimethylformamide, dimethyl sulfoxide, and perchloric acid on, 22:27650
- PLUTONYL PHOSPHATES
    - see also Ammonium Plutonyl Phosphates
  - properties of hydrous, chemical and physical, 21:21952
  - separation of hydrous, 21:21952
- PLYWOOD
  - glue spreading rate in, radiometric gaging of, 23:17709
- PM-1
    - see Army Reactors (PM-1)
- PM-2
    - see Army Reactors (PM-2)
- PM-3
    - see Army Reactors (PM-3)
- PMMA
    - see Methacrylic Acid, Methyl Ester, Polymers
- Pneumatic Pulse Generators
    - see Pulse Generators (Pneumatics)
- PNEUMATIC SYSTEMS
    - see also Pulse Generators (Pneumatics)
  - control of reactor pneumatic tube transfer system, microphone switch for, 23:16210
  - control system for reactor rabbit, design of electronic, 22:23358 (IA-1128, pp 185-212)
  - description of sample transport, for neutron generator, 24:26550
  - design and operation of, for Fast Shuttle Rabbit irradiation facility at Soreq, Israel, 24:14125 (IA-1200)
  - design and operation of, for transfer of radioactive ceramic fuel samples between ANL facilities, 25:4306
  - design and operation of, for transferring californium-252 sources between ORNL facilities, 25:4305
  - design and operation of, for transport of radiation source capsules, 25:29319(P)
  - design and testing for reactor control rod position indicator, 24:9710 (KFK-951)
  - design for automatically transferring samples between irradiation and detection positions, 22:35973 (LA-3862)
  - design for control of γ source elevator, 21:17759
  - design for master—slave manipulator motion lock, engineering drawings for, 25:15875
  - design for positioning servomechanism, 23:9620(P)
  - design for pressure transducer for measurement of rocket nozzle pressure, 24:2517 (RN-DR-124)
  - design for reactor control rod drives, 25:6457(P)
  - design for remote control of dose and temperature in in-pile loops, 23:9633(P)
  - design for sample transfer for activation analysis at Braunschweig 140-MeV electron synchrotron, 25:20184
  - design for short irradiation in nuclear reactors, 21:26024 (INR-757/XI/R)
  - design for target positioning and removal in Lyon synchrocyclotron, 22:29809
  - design for target transfer from cyclotron, 23:30906
  - design for transfer of californium-252 neutron sources at TRU and TURF, 25:51792
  - design for transfer of radioactive materials from hot cells to shielded microprobes, 24:475
  - design for transfer of small radioactive samples, 22:45227
  - design for transfering sample from neutron exposure chamber to detection instruments, 21:16253
  - design for transferring materials in hot cells, 25:13203(P)
  - design for transport of irradiated targets from cyclotron to isotope separator, 25:44511 (BMBW-FBK-70-28, pp 104-7)
  - design of automatic, for use in neutron activation analysis, 24:38788
  - design of fast shuttle rabbit facility for use in neutron activation analysis, 24:13784
  - design of gas gun, 25:57280 (SCL-DR-69-155)
  - design of impaction vacuum, 21:46025(R) (BNWL-CC-761)
  - design of irradiation, transport, and dispensing, for Israel Research Reactor, 21:6104
  - design of low-velocity air gun, 25:57289 (UCRL-51098)
  - design of sample rotator and transfer, for linac irradiations, 22:1544
  - design of terminal head for conduit-type, for remote transfer of articles, 25:2427(P)
  - design of transfer system for activatable pellets for in-core neutron measurements, 24:20992(P)
  - design of tube-type, for transfer of radioactive samples, 25:51793
  - design of, for handling thermal-column irradiation samples, 21:12243
  - design of, for use in activation analysis, 21:3009(P)

  - development for displacing gamma sources for radiography, 24:25166
  - development for in-pile measurement of creep and stress, 23:727
  - development for measuring level of liquid moderator in reactor pressure vessel, 23:721(P)
  - development for positioning and removal of targets from JINR proton synchrocyclotron, 22:26736 (JINR-P6-3773)
  - development for trigger-actuated locking of master—slave manipulators, 25:4312
  - development for tuning fork to drive fluidic elements, 21:44991 (SC-TM-67-712)
  - development of pneumatic scanning systems for converting pneumatic signals to electric signals, 21:34522 (ORNL-4091, pp 102-35)
  - development of, for use in activation analysis, 21:2997
  - exit time of rabbit in, use of sodium-24 for measuring, 22:24788 (IA-1128, pp 55-77)
  - incorporation in test equipment for hazardous locations, 23:503 (SC-DC-66-2428)
  - operation for activation analysis, 24:46198(R) (NBS-TN-508)
  - performance in fabrication of refractory composites by impaction, 21:1928 (BNWL-SA-482)
  - use in high-energy-rate shaping of composites, 21:4988 (BNWL-SA-550)
- PNPF
  - see Piqua Power Reactor
- PODOPHYLLIC ACID, 2-ETHYLHYDRAZIDE
  - effects on activity of lactate dehydrogenase in carcinoma and normal cells, combined effects of γ radiation on, 23:24559
  - effects on carbohydrate and electrolyte metabolism in rat bone marrow, γ, 25:32550
  - effects on mycosis fungoides in man, combined effects of x radiation and, 23:29663
  - effects on mycosis fungoides in man, combined effects of x radiation and, 23:29663
  - effects on rhabdomyosarcomas in rats combined with x radiation effects, 24:34550
  - effects on sarcomas of mice, combined effects of x radiation on therapeutic, 23:22407
  - effects on x-radiosensitivity of tumors in mice, 22:17031
  - effects on x-radiotherapy of human carcinoma transplants, synergistic, 24:44570
  - hydrochloride, effects on radiosensitivity of Crocker sarcomas of rats, 24:12201
- PODOPHYLLIN
  - derivative of, use as sensitizer in radiotherapy of cervical carcinoma, 21:26481
  - effects on bronchial carcinomas, combined effects of high-energy electrons on therapeutic, 24:4661
- POINT BEACH POWER REACTOR, UNIT 1
  - accidents in, analyses of effects of hypothetical, 22:20787 (DOCKET-50266-3)
  - ACRS subcommittee questions on, answers to, 22:20790 (DOCKET-50266-6)
  - auxiliary power systems for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  - containment spray system for, evaluation of iodine removal efficiency of, 23:28360 (DOCKET-50266-13)
  - containment structure for, codes and standards for design and penetrations for, 23:47130 (DOCKET-50266-14)
  - containment structure for, design criteria for and location of penetrations in, 22:20787 (DOCKET-50266-3)
  - containment structure for, integrated leak rate test of, 25:3829 (DOCKET-50266-32)
  - containment structure for, stress testing of, 25:3830 (DOCKET-50266-33)
  - containment structure for, surveillance requirements for tendons of prestressed concrete, 25:3831 (DOCKET-50266-34)
  - containment structures for, seismic stress requirements of, 24:24763 (DOCKET-50266-18)
  - containment structures of, leak rate tests for, 24:24763 (DOCKET-50266-18)
  - containment system for, design for air recirculation system for, 24:16038 (DOCKET-50266-17)
  - containment system for, design loadings for, 22:20785 (DOCKET-50266-1)
  - containment system for, design of tendons and penetrations in, 22:20785 (DOCKET-50266-1)
  - containment system for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  - containment system for, preliminary safety analysis of, 22:20791 (DOCKET-50266-7)
  - containment system for, preliminary safety analysis of, 23:23820 (DOCKET-50301-4)
  - containment systems for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  - containment vessel for, seismic design and loadings for, 22:20788 (DOCKET-50266-4)
  - containment vessel for, structural analysis and surveillance program for, 22:20789 (DOCKET-50266-5)
  - control rods for, calculated rod worths and normalized power densities for, 24:13467 (DOCKET-50266-16)
  - control systems and instrumentation for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  - control systems and instrumentation for, preliminary safety analysis of, 23:23821 (DOCKET-50301-5)
  - control systems and instrumentation for, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - coolant for, fission product inventory under maximum burnup conditions in, 22:20787 (DOCKET-50266-3)
  - coolant for, revised activity limits for, 25:3832 (DOCKET-50266-35)
  - coolant loss accidents in, mathematical models for blowdown and hydrogen evolution calculations following, 24:13467 (DOCKET-50266-16)
  - cooling system for, design of temperature sensors for, 24:16038 (DOCKET-50266-17)
  - cooling system for, final safety analysis of design of, 23:28357 (DOCKET-50266-10)
  - cooling system for, missile generation from pumps in primary, 24:13467 (DOCKET-50266-16)
  - cooling system for, preliminary safety analysis of, 23:23820 (DOCKET-50301-4)
  - cooling system for, preliminary safety analysis of design of, 22:20791 (DOCKET-50266-7)
  - cooling system of, leak rate tests for, 24:24763 (DOCKET-50266-18)
  - cooling systems for, tabulation of activities in secondary, 24:16038 (DOCKET-50266-17)
  - core and internals for, integrity analyses for, 23:47130 (DOCKET-50266-14)
  - core and intervals for, methods for stress analyses of, 24:13467 (DOCKET-50266-16)
  - core for, effects of resonance neutron temperature on Doppler effect in, 24:13467 (DOCKET-50266-16)
  - core for, final safety analysis of design of, 23:28357 (DOCKET-50266-10)
  - core for, preliminary safety analysis of design of, 22:20791 (DOCKET-50266-7)
  - core for, preliminary safety analysis of design of, 23:23820 (DOCKET-50301-4)
  - core spray system for, storage conditions and effects of corrosion rates of concentrated sodium hydroxide additive to, 24:13467 (DOCKET-50266-16)
  - design parameters for, 22:22712 (STI/PUB-174)
  - design parameters of, revised and additional data on, 24:40851 (DOCKET-50266-26)
  - effluents from, effects on environment of radioactive and thermal, 25:56947 (DOCKET-50266-55)
  - electrical systems for, final safety analysis of, 23:28359 (DOCKET-50266-12)
  - electrical systems for, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - electrical systems for, preliminary safety analysis of, 23:23821 (DOCKET-50301-5)
  - emergency and auxiliary systems for, final safety analysis of, 23:28359 (DOCKET-50266-12)
  - emergency and auxiliary systems for, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - emergency and auxiliary systems for, preliminary safety analysis of, 23:23821 (DOCKET-50301-5)
  - Emergency Core Cooling System for, efficiency evaluation of, 22:20788 (DOCKET-50266-4)
  - emergency core cooling system for, equalizing flow resistance in, 24:50029 (DOCKET-50266-28)
  - emergency core cooling systems for, operating conditions and design modifications for, 24:13467 (DOCKET-50266-16)
  - engineered safeguards for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  - engineered safeguards for, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - fuel elements for, results and data from high-power irradiation program for, 24:13467 (DOCKET-50266-16)
  - instrumentation for, design bases and criteria for protective, 24:13467 (DOCKET-50266-16)
  - instrumentation for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  - load-loss transients in, effects of temperature gradients on primary system components during, 24:13467 (DOCKET-50266-16)
  - operation of, application for license for, 23:28356 (DOCKET-50266-9)
  - operation of, core data utilization for, 25:50942
  - operation of, license for, 24:50030 (DOCKET-50266-29)
  - operation of, preliminary safety analysis of proposed, 23:23821 (DOCKET-50301-5)
  - operation of, provisional license for, 24:35984 (DOCKET-50266-23)
  - operation of, request for not suspending license for, 25:59954 (DOCKET-50266-56)
  - operations aspects of, revised and additional data on, 24:40851 (DOCKET-50266-26)
  - operations history for January to June 1971, 25:50930 (DOCKET-50266-53)
  - operations history for October 5 to December 31, 1970, 25:25880 (DOCKET-50266-43)
  - operations incident of April 16, 1971, failure of containment sump valves to open, 25:31478 (DOCKET-50266-47)
  - operations incident of December 9, 1970, improper service water outlet valve lineup for radioactive waste discharge, 25:10124 (DOCKET-50266-37)
  - operations incident of January 12, 1971, failure of containment sump suction valves to open, 25:15238 (DOCKET-50266-40)
  - operations incident of July 7, 1970, coolant pump fire, 25:15237 (DOCKET-50266-39)
  - operations incident of March 28, 1971, unscheduled venting of containment system, 25:28571 (DOCKET-50266-46)
  - operations incident of May 4, 1971, improper position of circuit breaker for safety injection pump, 25:36881 (DOCKET-50266-49)
  - operations incident of October 13, 1970, safety analysis of accidental tripping of emergency systems, 25:1802 (DOCKET-50266-30)
  - operations of, final safety analysis of proposed, 23:28359 (DOCKET-50266-12)
  - owners of, changes in officers and directors of, 23:47130 (DOCKET-50266-14)
  - owners of, financial statements of, 24:31009 (DOCKET-50266-21)
  - ownership of, change of, 22:20786 (DOCKET-50266-2)
  - performance of, testing of load follow, 25:50939
  - personnel for, responsibilities and training of supervisory, 24:13467 (DOCKET-50266-16)
  - personnel for, responsibilities of operation, 24:26726 (DOCKET-50266-20)
  - personnel respiratory protection at, equipment and procedures for, 24:35983 (DOCKET-50266-22)
  - power spectral density for, noise analysis techniques for, 25:41279
  - pressurizer safety valves for, furnace sensitized stainless steel in nozzles of, 25:36934 (DOCKET-50266-50)
  - protection system for, improper startup trip setpoints for, 25:53966 (DOCKET-50266-54)
  - radiation protection and radioactive waste handling at, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - radiation protection and radioactive waste handling at, preliminary safety analysis of, 23:23821 (DOCKET-50301-5)
  - radiation protection and waste disposal at, final safety analysis of, 23:28359 (DOCKET-50266-12)
  - radioactive by-product materials for, revised possession limits for, 25:15296 (DOCKET-50266-38)
  - radioactive by-product materials for, revised possession and use restrictions for, 25:8012 (DOCKET-50266-36)
  - radioactive effluents from, revised design parameters and operations aspects to reduce, 25:36933 (DOCKET-50266-48)
  - radioactive effluents from, unscheduled release of, 25:48159 (DOCKET-50266-52)
  - radioactive waste disposal system for, revised and additional data on, 25:36933 (DOCKET-50266-48)
  - radioactive waste disposal systems for, backfitting requirements for, 25:41280
  - radioactive waste for, revised handling procedures for liquid, 25:3832 (DOCKET-50266-35)
  - safety analyses for, 23:23821 (DOCKET-50301-5)
  - safety analyses for, final, 23:28360 (DOCKET-50266-13)
  - safety evaluation of, addendum to Division of Reactor Licensing, 25:25919 (DOCKET-50266-45)
  - safety evaluation of, Division of Reactor Licensing, 24:35985 (DOCKET-50266-24)
  - site for, environmental considerations of, 24:43663 (DOCKET-50266-27)
  - site for, environmental monitoring programs for, 24:38455 (DOCKET-50266-25)
  - site for, environmental radiation and temperature survey during April to November 1970, 25:56947 (DOCKET-50266-55)
  - site for, environmental radiation survey during July 1969 to June 1970, 25:20641 (DOCKET-50266-42)
  - site for, evaluation of, 22:20792 (DOCKET-50266-8)
  - site for, final safety analysis of, 23:28357 (DOCKET-50266-10)
  - site for, July 1968—June 1969 environmental radiation survey for, 24:16037 (DOCKET-50266-15)
  - site for, meteorological data of, 24:24763 (DOCKET-50266-18)
  - site for, meteorological data of, 24:26726 (DOCKET-50266-20)
  - site for, pre-operational environmental monitoring program for, 25:15297 (DOCKET-50266-41)
  - site for, preliminary safety analysis of, 22:20791 (DOCKET-50266-7)
  - site for, preliminary safety analysis of, 23:23820 (DOCKET-50301-4)
  - site for, radioactivity levels of sediment samples from, 25:1832 (DOCKET-50266-31)
  - site for, seismicity analysis and design criteria for, 22:20792 (DOCKET-50266-8)
  - site for, test pile data for, 22:20788 (DOCKET-50266-4)
  - startup program for, 25:50949
  - startup testing for, safety analysis of, 25:25881 (DOCKET-50266-44)
  - steam and power conversion system for, preliminary safety analysis of, 22:20792 (DOCKET-50266-8)
  - steam and power conversion systems for, preliminary safety analysis of, 23:23821 (DOCKET-50301-5)
  - steam and power conversion systems for, safety analysis of, 23:28359 (DOCKET-50266-12)
  - steam line for, evaluation of off-site consequences of break in, 24:16038 (DOCKET-50266-17)
  - structures and equipment for, design criteria for, 23:28360 (DOCKET-50266-13)
  - structures and systems for, loading conditions, stress limits, and seismic design criteria for Class I, 24:16038 (DOCKET-50266-17)
  - structures for, seismic design criteria for, 22:20789 (DOCKET-50266-5)
  - technical specifications and bases for, 23:47130 (DOCKET-50266-14)
  - technical specifications for, proposed complete, 24:50030 (DOCKET-50266-29)
  - testing of, acceptance criteria for post-neutron, 24:13467 (DOCKET-50266-16)
  - testing of, startup surveillance and pre-core loading functional, 24:16038 (DOCKET-50266-17)
  - turbines for, safety aspects of overspeed conditions in, 24:40851 (DOCKET-50266-26)
- POINT BEACH POWER REACTOR, UNIT 2
  - accident in, safety analysis of postulated steam-line-break, 22:18407 (DOCKET-50301-1)
  - auxiliary power systems for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  - boiler for, inspection of repairs for, 25:44054 (DOCKET-50301-35)
  - containment structure for, codes and standards for design and penetrations for, 23:47130 (DOCKET-50266-14)
  - containment structure for, stress deformation calculations for liner for, 22:24950 (DOCKET-50301-3)
  - containment structures for, seismic stress requirements of, 24:24763 (DOCKET-50266-18)
  - containment structures of, leak rate tests for, 24:24763 (DOCKET-50266-18)
  - containment system for, design for air recirculation system for, 24:16038 (DOCKET-50266-17)
  - containment system for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  - containment system for, integrity during post coolant loss accident of, 22:18407 (DOCKET-50301-1)
  - containment systems for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  - control rods for, calculated rod worths and normalized power densities for, 24:13467 (DOCKET-50266-16)
  - control systems and instrumentation for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  - coolant loss accidents in, mathematical models for blowdown and hydrogen evolution calculations following, 24:13467 (DOCKET-50266-16)

  cooling system for, design of temperature sensors for, 24:16038 (DOCKET-50266-17)
  cooling system for, final safety analysis of design of, 23:28357 (DOCKET-50266-10)
  cooling system for, missile generation from pumps in primary, 24:13467 (DOCKET-50266-16)
  cooling system of, leak rate tests for, 24:24763 (DOCKET-50266-18)
  cooling systems for, tabulation of activities in secondary, 24:16038 (DOCKET-50266-17)
  core and internals for, integrity analyses for, 23:47130 (DOCKET-50266-14)
  core and intervals for, methods for stress analyses of, 24:13467 (DOCKET-50266-16)
  core for, blowdown effects as function of time in, 22:18407 (DOCKET-50301-1)
  core for, effects of resonance neutron temperature on Doppler effect in, 24:13467 (DOCKET-50266-16)
  core for, final safety analysis of design of, 23:28357 (DOCKET-50266-10)
  core spray system for, storage conditions and effects of corrosion rates of concentrated sodium hydroxide additive to, 24:13467 (DOCKET-50266-16)
  design parameters of, revised and additional data on, 25:12744 (DOCKET-50301-26)
  design parameters of, revised and additional data on, 24:40851 (DOCKET-50266-26)
  design-basis accident in, radiation exposure doses during control room access after, 22:18407 (DOCKET-50301-1)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:34290 (DOCKET-50301-32)
  effluents from, effects on environment of chemical, radioactive, and thermal, 24:47778 (DOCKET-50301-24)
  electrical systems for, final safety analysis of, 23:28359 (DOCKET-50266-12)
  emergency and auxiliary systems for, final safety analysis of, 23:28359 (DOCKET-50266-12)
  Emergency Core Cooling System for, development program for spray additive for, 22:24950 (DOCKET-50301-3)
  emergency core cooling system for, performance evaluation of, 25:50994 (DOCKET-50301-38)
  emergency core cooling system for, performance evaluation for small break conditions, 25:59968 (DOCKET-50301-41)
  emergency core cooling systems for, operating conditions and design modifications for, 24:13467 (DOCKET-50266-16)
  emergency procedures for, detailed, 22:18407 (DOCKET-50301-1)
  emergency systems for, description of external electricity supply to, 22:18407 (DOCKET-50301-1)
  engineered safeguards for, final safety analysis of, 23:28358 (DOCKET-50266-11)
  fuel elements for, results and data from high-power irradiation program for, 24:13467 (DOCKET-50266-16)
  instrumentation for, design bases and criteria for protective, 24:13467 (DOCKET-50266-16)
  instrumentation for, preliminary safety analysis of, 24:26726 (DOCKET-50266-20)
  load-loss transients in, effects of temperature gradients on primary system components during, 24:13467 (DOCKET-50266-16)
  operation of, application for license for, 23:28356 (DOCKET-50266-9)
  operation of, core data utilization for, 25:50942
  operation of, proposed issuance of license for, 25:20663 (DOCKET-50301-28)
  operations aspects of, revised and additional data on, 24:40851 (DOCKET-50266-26)
  operations aspects of, revised and additional data on, 25:12744 (DOCKET-50301-26)
  operations history for January to June 1971, 25:50930 (DOCKET-50266-53)
  operations history for October 5 to December 31, 1970, 25:25880 (DOCKET-50266-43)
  operations of, final safety analysis of proposed, 23:28359 (DOCKET-50266-12)
  owners of, changes in officers and directors of, 23:47130 (DOCKET-50266-14)
  owners of, financial statements of, 24:31009 (DOCKET-50266-21)
  personnel for, responsibilities and training of supervisory, 24:13467 (DOCKET-50266-16)
  personnel for, responsibilities of operation, 24:26726 (DOCKET-50266-20)
  personnel respiratory protection at, equipment and procedures for, 24:35983 (DOCKET-50266-22)
  pressurizer safety valves for, furnace sensitized stainless steel in nozzles of, 25:36934 (DOCKET-50266-50)
  radiation protection and waste disposal at, final safety analysis of, 23:28359 (DOCKET-50266-12)
  radioactive effluents from, revised design parameters and operations aspects to reduce, 25:36933 (DOCKET-50266-48)
  radioactive waste disposal system for, revised and additional data on, 25:36933 (DOCKET-50266-48)
  radioactive waste disposal systems for, backfitting requirements for, 25:41280
  reactivity control and shutdown margin for, 22:24950 (DOCKET-50301-3)
  regulatory action on, AEC, 22:44854
  safety analyses for, final, 23:28360 (DOCKET-50266-13)
  safety evaluation of, addendum to Division of Reactor Licensing, 25:25919 (DOCKET-50266-45)
  safety evaluation of, Division of Reactor Licensing, 24:35985 (DOCKET-50266-24)
  safety injection system piping for, additional data on, 25:12744 (DOCKET-50301-26)
  site for, environmental considerations of, 24:43663 (DOCKET-50266-27)
  site for, environmental monitoring programs for, 24:38455 (DOCKET-50266-25)
  site for, environmental radiation survey during July 1969 to June 1970, 25:20641 (DOCKET-50266-42)
  site for, final safety analysis of, 23:28357 (DOCKET-50266-10)
  site for, geologic, hydrologic, and meteorologic data for, 24:47778 (DOCKET-50301-24)
  site for, July 1968—June 1969 environmental radiation survey for, 24:16037 (DOCKET-50266-15)
  site for, meteorological data of, 24:24763 (DOCKET-50266-18)
  site for, meteorological data of, 24:26726 (DOCKET-50266-20)
  site for, radioactivity levels of sediment samples from, 25:1832 (DOCKET-50266-31)
  steam and power conversion systems for, final safety analysis of, 23:28359 (DOCKET-50266-12)
  steam generator B for, repairs made to, 25:50931 (DOCKET-50301-37)
  steam line for, evaluation of off-site consequences of break in, 24:16038 (DOCKET-50266-17)
  structures and equipment for, design criteria for, 23:28360 (DOCKET-50266-13)
  structures and systems for, loading conditions, stress limits, and seismic design criteria for Class I, 24:16038 (DOCKET-50266-17)
  structures at, loading combinations and safety margins for class I, 22:20805 (DOCKET-50301-2)
  structures at, seismic classification of class I, 22:20805 (DOCKET-50301-2)
  technical specifications and bases for, 23:47130 (DOCKET-50266-14)
  testing of, acceptance criteria for post-neutron, 24:13467 (DOCKET-50266-16)
  testing of, startup surveillance and pre-core loading functional, 24:16038 (DOCKET-50266-17)
  testing program for, inspection of pre-operation, 25:44054 (DOCKET-50301-35)
  turbines for, safety aspects of overspeed conditions in, 24:40851 (DOCKET-50266-26)
POINT BEACH POWER REACTOR, UNIT 3
  containment spray system for, evaluation of iodine removal efficiency of, 23:28360 (DOCKET-50266-13)
Point Charge
    see Electric Charges
POISONING
    (See also toxic substances.)
    see also Metabolism
    see also Mustard Gas
    see also Phosgene
    see also Toxicity
    see also Venoms
Poisoning, Reactor
    see Reactor Control Systems
POLAND
  alpha activity of mineral waters of Swieradow, monitoring of long-lived, 23:40870
  cesium distribution in pond ecosystem in, neutron activation analysis of, 25:2516
  cesium-137 content of freshwater ecosystems in, during 1963 to 1966, fallout, 25:32377
  cesium-137 content of muscles in cattle, hares, and rabbits in, during 1965 and 1966, 23:50465
  content of cesium-137 and potassium in foods and man in, during 1965 to 1966, 25:37775 (CLOR-71/D)
  development of power reactors in, 24:13494
  fallout monitoring in, 1962 to 1965, 21:1737 (CLOR-48/D)
  fallout monitoring in, from 1962 to 1968, 24:46592 (SZS-10/70)
  gamma dose rates in Warsaw, effect of fallout and radon on, 21:39061
  geology and mining in, uses of radioisotopes in, 24:50464
  granite deposits near Strzegom, radioactivity of, 22:30702
  industrial uses of radioisotopes in, conference on, 21:16071 (NEIC-RR-15(Pt.1))
  medicine in, research on, 23:45777(T) (TT-68-50006/5)
  nuclear energy research and development programs in, organizations for, 23:19473
  nuclear energy research in, 1961—1963, 22:25232
  nuclear physics education and training programs in, 25:54024 (A/CONF.49/P-333)
  nuclear physics research programs with Norway, Yugoslavia, IAEA, and, description of joint, 25:54261 (A/CONF.49/P-330)
  nuclear power in, predictions to 1975 of development of, 23:9116
  nuclear power plant economics in, (T), 25:34261
  nuclear power plants for, economics for development of, 25:53936 (A/CONF.49/P-338)
  personnel dosimetry with film badges during 1966, summary of, 22:49126 (CLOR-68)
  radiation background monitoring in Warsaw, 1962 to 1965, γ, 21:28491
  radiation chemistry in, review on, 25:2217
  radiation dose rates in Warsaw, seasonal variation in, measurement of, gamma, 21:10857 (CLOR-50/D)
  radiation dose to personnel in industry and laboratories in, protection against, 23:26802
  radiation monitoring in residential buildings in Warsaw, radon and γ, 23:50531
  radiation monitoring in, background γ, 1962, 21:28490
  radiation monitoring in, improved method for environmental, 22:6445
  radiation monitoring of environment of Zeran Nuclear Center in, during 1969, 25:37731 (INR-1246)
  radiation monitoring of environment of Zeran nuclear center in, 24:23179 (INR-1114)
  radiation monitoring of personnel in, evaluation of statistics of, 23:12113
  radiation monitoring of raw phosphates on vessels in seaport of, β, 24:6040
  radiation monitoring programs during 1958 to 1968 at Swierk, 25:6698 (INR-1185)
  radiation processing of food in, research on, 24:8037
  radiation protection programs for critical assemblies in, 25:11080
  radiation protection standards in, for handling of sealed gamma sources in laboratories, 22:23588
  radiation sources in, use of low-energy γ and x, 22:257 (ORNL-IIC-10(Vol.2), pp 746-63)
  radioactive contamination of milk in, during 1961 to 1967 in relation to nuclear weapons tests, 23:8008
  radioactive waste disposal in, research on treatment methods for, 22:21301
  radioactive waste processing in, design and operation of plant for, 25:2422
  radioactive waste processing in, review on, 25:214 (INR-1165)
  radioactivity in cattle food and milk, 1963, 21:389
  radioactivity in lower troposphere of Warsaw, from 1965 to 1966, effects of meteorological conditions on natural, 24:48183
  radioactivity monitoring in environment of Institute of Nuclear Research-Zeran Center, during 1968, 24:44488 (INR-1117)
  radiobiology and medicine in, during 1965, research on, 21:39444(R) (NEIC-RR-24)
  radioisotope content of foodstuffs in, during 1965 and 1966, 24:25127 (CONF-680664)
  radioisotope facilities in, monitoring of personnel of, during 1963 to 1965, 21:20165 (CLOR-58/D)
  radioisotope uses in, 22:8318
  radioisotope uses in, 25:51710 (A/CONF.49/P-831)
  radioisotope uses in geophysics, hydrology, and mining in, 25:51693 (A/CONF.49/P-334)
  radon content of mineral waters in, effects of chloride ions on, 23:45403
  radon-222 content in troposphere at Warsaw, effects of fog on, 22:23166
  research studies on medicine, 23:41342(T) (TT-69-50007/2)
  review of medical research on neoplasms in, 23:29559 (NEIC-RR-33)
  review of nuclear medicine in, 23:12150(T) (TT-67-56003/5)
  soil profiles and climatic conditions in, 21:19760 (TEI-867)
  soils in, fission product content of, 21:36106 (CLOR-63/D)
  strontium-90 content of fish, periphyton, plants, silts, and waters of Zegrzynski artificial lake in, 1963 and 1964, 23:47629
  strontium-90 content of soils in central and southern, 23:26352
  strontium-90 content of soils in Lower Silesia, 23:26353
  strontium-90 content of soils in southern, 1962, 22:4275
  strontium-90 ratio to calcium in diet of human adolescents in, 24:23132 (CLOR-77)
  uranium content of raw phosphates on vessels in seaport of, effects of, on contamination of local environment, 24:6040
  Vistula River and waste water mixing in, radioisotopic method for studies of, 22:48926
  Zechstein deposits in, content of uranium, selenium, and rhenium in, 21:16024
Polar Substorms
    see Magnetic Storms
POLARIMETERS
  calibration of Compton, computer program for determining asymmetry ratio for, 22:25656
  construction of two-cell photoelectric, (E), 22:15281
  cosmic x-ray, performance of asymmetric Bragg, 23:39248 (D-1-82-875)
  data sensing and recording system for three-dimensional scattered-light, circuit for, 22:21378 (ORNL-4219, pp 18-28)
  description for beta—gamma correlation measurements in beta decay using Compton backscattering method in magnetized iron, 25:44742
  description for helicity measurements, 25:20374 (NP-18597)
  description of annular, for measurement of nucleon polarization in nuclear reactions, 24:11817
  description of Compton scattering, for plane polarization measurements of gamma radiation, 25:37603
  description of gamma, for circular polarization measurements, 24:52606
  description of gamma, for circular-polarization measurements, 25:25720 (NP-18694)
  description of lithium-drifted germanium Compton, 23:22067
  description of reflecting, for measuring polarization of ultraviolet synchrotron radiation, 22:28202 (DESY-68/12)
  design and construction for proton polarization measurements, 21:19928
  design and operation of charged-particle, for use with magnetic spectrometer, 22:23370
  design and operation of proton, using (p,α) reactions with lithium-7, 23:23589
  design and performance for helium-3 elastic scattering by helium-4 at 11.5 to 13 MeV, 24:28691
  design and performance for linear polarization measurements of gamma rays using photoelectric effect, 24:33966
  design and performance of Compton effect gamma-ray, using lithium-drifted germanium detectors, 23:50229
  design and performance of Compton, for measuring 2-MeV bremsstrahlung, 24:21020
  design and performance of fast-neutron, using high-pressure helium gas scintillator, 25:44658
  design and performance of liquid helium, for measuring polarization of neutrons at 2 to 20 MeV, 22:28230
  design and performance of neutron, with high-energy resolution, 22:40484 (INR-P-897)
  design and performance of two-sodium iodide-crystal summing, for gamma—gamma linear polarization measurements, 22:14887
  design for isobaric analog state spin measurements, 22:36154

design for slow electrons, 24:23042
design for soft x rays, 22:36066
design of Compton, for neutron-capture gamma radiation, 21:19935
design of fast-neutron, utilizing neutron scattering by alpha particles, 22:2467
design of fast-switching Compton, for γ-ray circular polarization measurements, 25:41233
design of gas, for measurement of 14-MeV neutron polarization during scattering experiments, 23:47887
design of high-resolution neutron, using (n,α) scattering as polarization analyzer, 22:45363
design of linear and circular, for gamma rays, 22:8356
design of liquid helium, for measuring polarization of neutron beams, at 0 to 30 MeV, 23:734
design of liquid—helium time-of-flight neutron, with spin rotating solenoid, 22:6692
design of Locarno solar, (E), 23:51286
design of x-ray, for cosmic sources, (E), 23:51258
development for deuteron and proton beams, 21:7611
development of Compton, using semiconductor detectors, 25:21484
development of Compton, with lithium-drifted germanium detectors, 25:34082 (NYO-2028-5)
development of liquid-helium time-of-flight neutron, 21:10711
development of ring, for measuring proton polarization, (E), 23:21261 (ZFK-130, pp 137-9)
development using sodium-iodide detectors, for gamma radiation, 21:33954(R) (AECL-2687)
efficiency of gamma transmission circular, 24:9713
operation of gamma-ray circular, transfer matrix analysis including contribution of single and multiple scattering of, 24:2529
performance of gas-recoil neutron, 23:11914
performance of liquid helium analyzer in fast neutron, calculation of, 22:28259
performance of silicon, for proton scattering studies, 25:53710
performance of, effects of symmetry defects on, (T), 21:8651
performance of, effects of symmetry defects on, (T), 21:26296
proton analyzing power of helium, (T), 23:1929(R) (COO-1265-67)
sensitivity of Compton, optimization of, 22:25653
sensitivity of lithium-drifted germanium, for gamma polarization measurements, 23:35501
symmetry defects of, effects on polarization measurements, 25:37579(T) (LA-tr-71-40)
symmetry defects of, effects on polarization measurements, 25:37580(T) (LA-tr-71-41)
theory of, for polarized neutron scattering, 21:34511 (EUR-3291.e)
use in detection of strain in tube envelope glass immersed in liquid, 22:7942 (GEPP-13)
use of Compton, for linear polarization measurements of gamma rays, 22:25650
use with annular analyzer for measuring proton polarization from helium-3 reactions (He-3,p) with carbon-12, 22:4500 (JINR-P15-3504)
Polariscopes
see Polarimeters
POLARISCOPY
conference on development and uses of ellipsometric, Lincoln, Neb., Aug. 7 to 9, 1968, 24:944
extinction azimuth calculations as function of optical constants in ultrahigh vacuum ellipsometry, 24:40183 (ORNL-4446, pp 177-96)
field effects in ellipsometric, conference on, 24:944
instrumentation symmetry defects on, effects of, 25:37579(T) (LA-tr-71-40)
instrumentation symmetry defects on, effects of, 25:37580(T) (LA-tr-71-41)
POLAROGRAPHS
design of controlled-potential dc voltammeter, 22:14425 (ORNL-4196, pp 1-12)
design of remotely operated, for determining uranium in process waste solutions, 22:8009
design of solid-state, engineering drawings for, 22:16379
development of, 25:10424 (ORNL-4636, pp 34-40)
fabrication and testing of transistorized, controlled-potential differential, 21:34215(R) (UCRL-50006-67-1)
POLAROGRAPHY
bibliography on, 1968-69, 24:26954
boundary value problems in, numerical solution of, 23:4 (IN-1203, pp 8-29)
design of remotely controlled apparatus for, 22:4059(P)
development and uses of, 21:12(R) (UCID-15014)
development of technique for radiometric, 23:2205
developments in organic, review on, 22:25293
developments in radio-, 23:11512
developments in, review on, 22:25312
electrocapillary curves in, effects of nonionic surfactant on, 24:20690
equipment for, design of ac-dc, 24:33692
evaluation for detection of changes in oxygenation in personnel following long-term exposure to ionizing radiation, 24:27603
mercury drop time in, design of control system for, 22:16380
methods for determination of noble metals, review of, 23:17334
methods for metal corrosion measurement, 22:21665
performance and resolution of controlled-potential dc, circuit modifications for, 23:9300 (ORNL-4343, pp 1-10)
performance in ion determination using radioisotopes, 23:6087
performance of vertical-orifice rapid Teflon dropping-mercury electrode in, 22:14428 (ORNL-4196, pp 33-44)
performance of, electrical and electrochemical tests on, 23:9300 (ORNL-4343, pp 1-10)
precision of single-cell first-derivative dc, 22:14425 (ORNL-4196, pp 1-12)
radioisotope uses in, 21:15831(R) (COO-256-65)
techniques for organic compounds, 22:10123(R) (COO-1148-112)
techniques in nonaqueous solvents, 22:10122 (COO-256-77)
use for detection for radiation protection, 22:31096
use for measuring atmospheric particulate tracers, 23:9555 (BNWL-715-3, pp 63-4)
use in determination of trace metals in nuclear materials, 21:21870
uses of Kalousek, in analysis, 22:34
POLARONS
(An electron in an ionic crystal which moves with its accompanying distortion of the lattice. It has an effective mass greater than the electron.)
see also Electrons
see also Phonons
conductivity in unordered systems, quantum theory of nonstationary, 25:7496
decay in electron pulse radiolysis of ice, kinetics of, 25:163
disintegration kinetics in pulse radiolysis of neutral ice, 25:31976
Hamiltonian for, runaway modes from dipole approximation to, 23:3798
theory of large and small, review, 23:5450 (BNWL-903)
POLISHING
see also Cleaning
see also Electrolytic Polishing
book: Electrolytic and Chemical Polishing of Metals, 25:11365
device for specimen, design of hot cell, 22:12518(P)
equipment and method for, of irradiated and normal materials for electron microscopy, 21:14853 (ORNL-4066)
equipment design and operation for remote, in hot cells, 24:25194
equipment design for metallographic sample, 23:29054
machine for sealing headers for NRU Reactor pressure vessel, description of remote-control, 22:44902
method for preparation of thin specimens of ceramic materials, 22:28886 (BNWL-652)
method for transition metal crystals, chemical—mechanical, 23:6657
techniques for porous ceramics, effects of impregnating with lead borosilicate frits on efficiency of, 21:32969
POLLEN
analysis of fossil, from uraniferous coal of Ouchi area, Japan, 21:28109
content in Pasco Basin basalt, palynological and paleoecological studies of, 23:11637 (BNWL-715(Pt.4), pp 8-12)
deposition and transport of, use of radioactive aerosols to study, 22:14590
dispersion and deposition of ragweed, from area and point sources, 24:41078 (BNL-50224)
dispersion and deposition of timothy and corn, 25:31684 (BNL-50266)
fertility of, in apple clones produced from γ-irradiated dormant buds, 21:11135
genetics of corn, effects of ethyl methane sulfonate vapors on, 21:20419(R) (COO-1512-3)
germination and tube growth of Tropaeolum, effects of γ-irradiated sucrose on, 21:39346
germination of maize, in vitro method for, 21:26662(R) (ORO-3114-5)
germination of, effects of calcium on, in various plant species, 21:9011
phosphorus-32 uptake by, of pine, effects of boric acid, calcium ions, and magnesium ions on, 25:489
propagation studies of, use of indicator activation analysis for, 23:5052
radiation effects on Arabidopsis, genetic, x, 21:26663
radiation effects on beet, producing mutations, γ, 21:16326
radiation effects on collection of, by honeybees, β, fast-neutron, and γ, 23:20329 (ORNL-TM-2466, pp 47-52)
radiation effects on corn, γ, 21:9019
radiation effects on corn, in relation to aleurone pigmenting potential, x, 23:33673
radiation effects on cotton, meiosis in embryonic tissues following γ, 25:18955
radiation effects on cross fertility of, of pines, effects of dose on γ, 23:41499
radiation effects on cytoplasm and nuclei of pine, effects of dose on γ, 24:42028
radiation effects on development of, in Chenopodium album, effects of dose on γ,, 23:26958
radiation effects on development of, of hemp, sterility of male plants following γ, 25:16382
radiation effects on development of, of tomatoes, effects of dose on x, 22:21636
radiation effects on fertility of apple, γ, 22:52033
radiation effects on fertility of rice, mixed fast neutron and γ, 25:24465
radiation effects on fertility of tobacco, fast neutron and x, 22:49303
radiation effects on fertility of, in tomatoes, effects of seed exposure on x, 22:33973
radiation effects on fertility of, of hybrids of Dactylis glomerata, x, 22:47522
radiation effects on fertilization and germination of gladiolus, comparison of chemical mutagen and γ, 25:32384
radiation effects on formation of, in mulberry sprouts, effects of dose on γ, 24:9972
radiation effects on formation of, of mulberries, effects of dose on γ, 25:8794(T) (NSJ-tr-158)
radiation effects on formation of, of oaks and pines, chronic γ, 24:44627
radiation effects on genetics of forest tree, γ, 21:20422(R) (NYO-3571-4)
radiation effects on genetics of maize, x, 21:22773 (IAEA-2466-14)
radiation effects on genetics of Tradescantia, 21:22791
radiation effects on genetics of wheat, x, 21:22773 (IAEA-2466-14)
radiation effects on genetics of, of citrus fruits, γ and x, 21:20150
radiation effects on germination of Erianthus and Saccharum, effects of dose on uv and x, 25:39960
radiation effects on germination of maize, effects of dose on γ, 25:47051
radiation effects on germination of, effects of dose on oak and pine, γ, 21:28669(R) (YALE-2755-17)
radiation effects on germination of, in gymnosperms, effects of dose rate on chronic γ, 23:26686 (NP-17819, Chap.3.3)
radiation effects on germination rate of apple, latent γ, 24:25450
radiation effects on grape, in comparison with effects of ethyl methane sulfonate, cobalt-60 γ, 23:50936
radiation effects on growth and mitosis of, γ, 24:44632
radiation effects on Lilium, γ and x, 21:36751
radiation effects on Melandium, γ and x, 21:36748
radiation effects on metabolism in, of mallow type plants following seed exposure, combined effects of copper ions on γ, 24:25597
radiation effects on morphology of fennel and spinach, x, 25:37763 (NP-18712, pp 59-104)
radiation effects on morphology of, in herbs, Coriandrum, 21:13067
radiation effects on percent survival of Tradescantia, following exposure of immature buds, effects of dose on 0.43 MeV neutron, 23:48013 (NYO-2740-6, pp 255-68)
radiation effects on pine, implications of, in genetic incompatibility, γ, 21:30928
radiation effects on production of, by barley mutants, 25:21672
radiation effects on size of saffron, effects of dose on γ, 25:42720
radiation effects on sporogenesis of, in oak and pine, γ, 21:6725
radiation effects on tomato, effects of, on ploidy of seeds, γ or uv, 22:52029
radiation effects on tomato, genetic γ, 22:17050(R) (EUR-3606)
radiation effects on tomato, mutagenic fast neutron and γ, 25:42364
radiation effects on Tradescantia, abnormal fertilization processes resulting from γ and x, 21:3399
radiation effects on viability of tulip, effects of dose on γ, 25:35255
radiation effects on, effects of x, on fruit and seed production, 21:20439
radiation effects on, effects of, on quality and seed yield of white spruce, effects of dose on γ, 24:42027
radiation effects on, from tomato plants, combined effects of heat treatment on x, 22:49299
radiation effects on, of arboreous plants, mutagenic, 22:45499
radiation effects on, of corn, photoreactivation of uv, 22:47501 (NP-17136)
radiation effects on, of corn, uv, 22:23484(R) (COO-1512-5)
radiation effects on, of Cryptomeria japonica, effects of dose on γ, 24:34749
radiation effects on, of fruit trees, effects of, on productivity, γ, uv, and x, 22:45481
radiation effects on, of Gossypium sp, 25:4499
radiation effects on, of Lilium and maize, mutagenic β, 22:31044
radiation effects on, of maize, latent γ, 22:6926
radiation effects on, of peas, relation of unstable chromosomes to mutagenic x, 24:27570
radiation effects on, of pines, latent γ, 22:19313
radiation effects on, of Streptocarpus wendlandii, latent x, 22:40647
radiation effects on, of tobacco, comparison of, with effects on seed and seedlings, γ, 22:38500
radiation effects on, of tobacco, effects of dose on γ and x, 22:28704
radiation effects on, of tomato, α, 22:49638
radiation effects on, of tomatoes, latent x, 22:21635
radiation effects on, of wheat, combined effects of nuclear stage on aberrant γ, 22:49301
radiation processing of maize, for use in bee feeding, γ, 22:31312
radioinduced aberrations of chromatids in, of Tradescantia species, α, γ, proton, and x, 22:28421
radioinduced aberrations of chromatids in, of Tradescantia paludosa, effects of oxygen and water on production of x, 24:34390
radioinduced aberrations of chromosomes of mature, of Tradescantia bracteata, effects of LET and oxygen on γ and x, 22:12832
radioinduced abortiveness of, of wheat, effects of repeated doses on γ, 22:47523
radioinduced chromosome aberrations and mutations in maize, detection of, with iodine staining, x, 21:22401
radioinduced chromosome aberrations in, effects of LET values on proton and x, 21:13016
radioinduced chromosome aberrations in, of Tradescantia, equations for determining effects of fast neutron dose on occurrence of, 21:10845
radioinduced chromosome aberrations in, of Tradescantia, effects of 5-fluorodeoxyuridine on x, 22:19322
radioinduced chromosome lesions in Tradescantia, non-interaction response to fractionated x radiation doses to, 21:10831
radioinduced injuries to Tradescantia, x and γ, 21:28424
radioinduced mutations for haploid parthenogenesis in, of forest trees, 24:41847
radioinduced mutations for transmission of, in corn, γ, 24:48504
radioinduced mutations in barley, frequency of uv and x, 21:24378
radioinduced mutations in corn, uv, 23:29438
radioinduced mutations in maize, photoreactivation of γ, 21:20117(R) (NP-16482)
radioinduced mutations in maize, photoreactivation of uv, 23:31696

  radioinduced mutations in tomato, neutron and x, 23:9919
  radioinduced mutations in, of barley, strontium-90 β, 25:8648
  radioinduced mutations in, of corn, γ and uv, 23:26755
  radioinduced mutations in, of corn, photoreactivation of uv, 23:26758
  radioinduced mutations in, of cottonwood trees for use in hybridization, γ, 22:49307
  radioinduced mutations of Arabidopsis thaliana, effects of post storage time and presence of flower on, 24:48515
  radioinduced mutations of the tree Larix leptolepis, γ, 21:24670
  radioinduced sterility in, from M_1 plants of Nicotiana tabacum, γ, 21:32798
  radioinduced sterility in, of flax, in comparison to effects of EMS, γ, 23:26955
  radioinduced sterility of, of jute, effects of, on occurrence of cross pollination, 21:11132
  radiosensitivity of, effects of calcium content on x, 21:9011
  radiosensitivity of, effects of calcium content on uv, 21:9011
  radiosensitivity of, effects of genetic factors on x, 21:20439
  radiosensitivity of, of corn, γ, 21:6714
  use as tracers of low-altitude air, 21:32277
Pollucites
    see Cesium Aluminum Silicates
Pollution
    see Contamination
POLLUX
    see Hot Cells
Polonides
    see Polonium Alloys and Systems
POLONIUM
  alpha decay of, half-lives, Q values, reduced widths, and spectra from, (E), 25:28302 (CERN-70-30(Vol.1), pp 523-31)
  Auger electron lines in beta spectra of radon-220, detection of very weak, 22:50619
  book: Fundamentals of Metallurgy. Vol. 5. Minor, Noble, and Radioactive Metals. Transuranic Elements, 23:26986
  book: Uncommon Metals, 22:10981
  chemistry of, review of, 22:2170
  coating with rare earths of microspheres of, by vacuum vapor deposition, 24:21343 (BNWL-1288)
  complexes with citric acid, EDTA, NTA, oxalic acid, tartaric acid, and TTA, solvent extraction studies on stability constants of, 22:6389
  complexes with ion exchange materials, ESR studies of, 23:49820
  compounds of, from decay of bismuth-210 in tris(p-sulfamoylphenyl)bismuthine, 22:37821
  compounds of, preparation and chemical properties of, 22:2170
  concentration in thermal-neutron-irradiated bismuth by zone-melting method, 21:32249
  content in air and surface waters of Miamisburg, Ohio area, Jan. through June 1967, 21:45246(R) (MLM-1425)
  content in air, equations for mpc determination from, 21:24427
  content in surface water and air, near Miamisburg, Ohio, 1966, 21:22041(R) (MLM-1391)
  content in water, equations for MPC determination from, 21:24427
  content of human blood, expired air, feces, and urine, method for detecting small quantities of, 23:31723 (KFK-810)
  deposition on nickel disks, 21:40977
  detection of, design of dosimeter for, 21:8628(P)
  determination in perchloric acid by direct coulometry, 22:8018
  determination of trace amounts of, by electrochemical displacement and alpha counting, 21:17580
  determination of various oxidation states of, methods for, 23:13645
  determination of, methods for, 21:14172
  determination of, solvent extraction processes in, 24:20850 (MLM-1721)
  diffusion in quartz tube with temperature gradient, 24:2285
  distribution in lungs and pulmonary lymph nodes of dogs, man, and rats following inhalation, 22:21507
  distribution of, in tissues of man, 21:6468
  dosimetry in man, use of biochemical analysis of urine for, 23:7996 (LA-DC-9774)
  effects of, on glucose metabolism in rats, 21:6443
  effects on kidneys in animals and man following therapy for cancer of the peritoneal cavity, 24:23386
  electromigration behavior of, in CDTA and EDTA, 25:57520 (JINR-E6-5952)
  energy levels of spectra from, atomic, 21:14975
  fabrication of heat sources of, design of sputtering unit for, 25:4259 (BNWL-SA-3609)
  gamma attenuation coefficients for, least-squares calculations of, 24:35524
  hazards to man, protection against, 22:8554
  metabolism by man, 22:8554
  metallurgical properties and potentialities of, review, 21:9180
  monitoring of, in atmosphere and water in environs of Mound Laboratory, 1966, 21:10866(R) (MLM-1356)
  monitoring of, in water in environs of Mound Laboratory, 1965, 21:10865 (MLM-1335)
  photon reactions with K-shell electrons of, cross sections for, 21:7013
  precipitation with coagulating metal hydroxides, 22:51067
  preparation and properties of polonium-210-enriched, for use as heat source, 24:22888
  properties of, data sheets on, 22:8724 (MLM-1441)
  radioactivity standards of, users' guide for, 22:33474 (NP-17502)
  recoil ranges in aluminum and aluminum oxide at 6 to 12 MeV, (E), 22:14049
  reduction by mercury in acid solutions, kinetics of, 24:38835
  separation by solvent extraction, method for, 24:46322
  separation from aqueous solutions by precipitation, 21:40977
  separation from aqueous solutions by solvent extraction, review on, 24:20850 (MLM-1721)
  separation from bismuth, 22:23751(P)
  separation from bismuth and lead by extraction chromatography using dithizone in carbon tetrachloride, 25:48572
  separation from bismuth and lead by paper chromatography using butyl alcohol, 25:31842
  separation from bismuth by precipitation and solvent extraction, 23:4722
  separation from bismuth by solvent extraction using Aliquat-336, 22:33494
  separation from bismuth by solvent extraction using dibutyl carbitol, 22:18861 (BNWL-584)
  separation from bismuth in nitric acid solutions by solvent extraction using various organic solvents, 23:11599 (HW-83226)
  separation from bismuth oxide by volatilization at 580 to 780°C, 22:144
  separation from bismuth, adsorption process for, 22:23127(P)
  separation from bismuth-210 by solvent extraction using aliphatic ethers in nitric acid, 21:19736
  separation from chloride solutions by spontaneous deposition on bismuth powder, 24:46320
  separation from hydriodic acid using pentyl acetate, butyl ether, 4-heptanone, and 1-hexanol, 24:39022
  separation from hydrobromic acid solutions by solvent extraction using organic oxygen compounds, 24:19069
  separation from hydrochloric acid solutions by solvent extraction using alcohols, ethers, or ketones, 24:19068
  separation from irradiated bismuth, 24:27189(R) (MLM-1612)
  separation from irradiated bismuth by electrodeposition, 24:16653(P)
  separation from irradiated bismuth by molecular distillation, 24:22727 (MLM-1661)
  separation from irradiated bismuth by pyrochemical and solvent extraction methods, 23:45393(P)
  separation from irradiated bismuth by solvent extraction using TBP, 22:147
  separation from lead, 22:33208(R) (MLM-1456)
  separation from lead by electroplating, 22:42019(R) (MLM-1494)
  separation from lead by ion exchange, 23:9511(R) (MLM-1520)
  separation from lead by ion exchange and electroplating, 23:15929(R) (MLM-1526)
  separation from natural radionuclides by paper electromigration, 24:5611
  separation from neutron-irradiated bismuth metal by pyrochemical extraction, 23:49920
  separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
  separation from nitric acid solutions by electrolytic deposition on platinum cathodes, 21:19740
  separation from nitric acid solutions by solvent extraction using Aliquat-336, 22:33494
  separation from nitric acid solutions of irradiated bismuth by solvent extraction using dibutyl carbitol, 22:6370
  separation from other elements by anion exchange and spontaneous deposition on silver, 24:5648(R) (MLM-1606)
  separation from other materials, use of radioactive tellurium isotopes to check efficiency of electrochemical, 23:28977
  separation from other metals, development of methods for, 23:35264
  separation from tellurium in nitric acid solutions by paper chromatography, 22:30677
  separation from uranium by solvent extraction using di-sec-butyl ester of phenylphosphonic acid, 21:36076 (BNWL-440)
  separation from uranium mill effluents, 21:25940
  separation of lead from, 23:21777(R) (MLM-1531)
  separation of oxygen from, by vaporization, 25:18509(P)
  separation of radium from, electrochromatographic, 24:9244
  separation of, from bismuth and lead by cation exchange in hydrobromic acid solutions, 21:8427
  separation of, from bismuth, cadmium, and tin by thin-layer chromatography in hydrochloric acid, 21:8213
  separation of, from bismuth, precipitation method for, 21:3162(P)
  separation of, from hydrochloric acid solutions by solvent extraction using acetylacetone or hexone, 21:4603
  spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
  textbook on, 21:34854
  use of dissolved, as source of alpha radiation for radiolytic studies of light and heavy water, 21:12478
  use of, with beryllium as neutron source, 21:3411
  vapor pressure of, 22:144
POLONIUM ALLOYS AND SYSTEMS
  book: Irradiation Effects in Nuclear Fuels, 23:24967
  Dy—Po, thermal stability and vaporization of intermetallic DyPo in, 25:6865
  Gd—Po, fabrication and properties of polonium-210-enriched, in tantalum matrix for use as heat source, 24:22888
  Gd—Po, preparation and properties of polonium-210-enriched, for use as heat source, 24:22888
  Gd—Po, properties of polonium-210-labeled, for use as heat source, 23:6091 (MLM-1563)
  Gd—Po, properties of, data sheets on, 22:8724 (MLM-1441)
  Gd—Po, thermal stability and vaporization of intermetallic GdPo in, 25:6865
  Gd—Po—Ta, properties of polonium-210-labeled, for use as heat source, 23:6091 (MLM-1563)
  Gd—Po—Ta, properties of, data sheets on, 22:8724 (MLM-1441)
  Hf-base—Pu, electric conductivity of, 25:12004
  La—Po, thermal stability and vaporization of intermetallic LaPo in, 25:6865
  Nd—Po, thermal stability and vaporization of intermetallic NdPo in, 25:6865
  Pm—Po, crystal structure of intermetallic PmPo, 24:51160
  Pm—Po, density and melting point of intermetallic PmPo, 24:51160
  Pm—Po, preparation of intermetallic PmPo, 24:51160
  Po—rare earths, preparation of rare-earth polonide films of, method for, 23:36025 (BNWL-1113)
  Pu—Ti—Zr-base, electric conductivity of, 25:12004
  Pu—Ti-base, electric conductivity of, 25:12004
  Pu—Zr-base, electric conductivity of, 25:12004
POLONIUM CHLORIDES
  distribution of $PoCl_4$, in Colorado loam and podzol, 22:42977(R) (SC-PR-68-451)
  effects of polonium-210-labeled, on rats, 21:4865
POLONIUM, DIBROMODIMESITYL-
  preparation using Grignard reaction, 22:27678
POLONIUM, DICHLORODIMESITYL-
  preparation using Grignard reaction, 22:27678
POLONIUM, DIMESITYL-
  preparation using Grignard reaction, 22:27678
POLONIUM, DIMESITYLOXO-
  preparation using Grignard reaction, 22:27678
POLONIUM HALIDES
  separation by solvent extraction, effects of charge, composition, and structure on, 25:18511
POLONIUM HYDROXIDES
  coagulation with other metal hydroxides, 22:51067
POLONIUM IONS
  electric potentials of, 21:4603
  radii in fluorides and oxides, 24:188
POLONIUM ISOTOPES
  alpha decay of, alpha energies, half-lives, and branching ratios for, 21:44670 (UCRL-17723)
  conference on biology and ecology of, 24:48377
  content of wastes from reactor fuel operations, 23:2829
  determination in biological materials, electrodeposition method for α spectroscopic, 25:40 (IDO-12073, pp 28-36)
  fission of isomers of, search for spontaneous, 25:17924
  fission of, pairing effects at saddle point, (E), 21:29969(R) (UCRL-17299)
  metabolism in animals and plants, 21:43415
  production by carbon-12 reactions with platinum-194 and fluorine-19 reactions with rhenium-185 and -187, (E), 21:38335
  production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
  radioactivity standards of, users' guides for, 25:29174
POLONIUM ISOTOPES Po-193
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
POLONIUM ISOTOPES Po-194
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-195
  alpha decay of isomeric, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-196
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
POLONIUM ISOTOPES Po-197
  alpha decay of isomeric, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-198
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay of, on-line isotope separator studies of, (E), 23:21307
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-199
  alpha decay of isomeric, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)

  alpha decay of, alpha energy and half-life for, 21:38335
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-200
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, 21:38335
  alpha decay of, alpha energy and half-life for, (E), 25:25730 (UCRL-20412)
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay of, α spectra and half-life for, (E), 24:38223
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay of, on-line isotope separator studies of, (E), 23:21307
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  fission of shape isomeric, half-life for spontaneous, (E), 24:15928
  production in dysprosium-164 (Ar-40,xn) reactions at 160 to 280 MeV, cross sections for, 24:38249
POLONIUM ISOTOPES Po-201
  alpha and electron-capture decay of, ratio for, (E), 25:5696
  alpha decay of ground-state and isomeric, α spectra and half-lives for, (E), 24:38223
  alpha decay of isomeric, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha energy and half-life for, (E), 25:25730 (UCRL-20412)
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  electron-capture decay of, gamma spectra and half-lives from, (E), 25:25730 (UCRL-20412)
  electron-capture decay of, γ singles and coincidence spectra from, (E), 23:49414
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  energy levels from radon-205 alpha decay and decay of isomeric polonium-201, spin—parity assignments for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  fission of shape isomeric, half-life for spontaneous, (E), 24:15928
  nuclear properties of, Nuclear Data Sheets for, (E), 25:39014
POLONIUM ISOTOPES Po-202
  alpha and electron-capture decay of, ratio for, (E), 25:5696
  alpha decay of, alpha branching and energy and half-life for, (E), 25:25730 (UCRL-20412)
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, alpha energies for, (E), 21:23507
  alpha decay of, alpha energies from, (E), 21:29969(R) (UCRL-17299)
  alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
  alpha decay of, α spectra and half-life for, (E), 24:38223
  alpha decay of, calculation of rate of, 21:23528
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay of, on-line isotope separator studies of, (E), 23:21307
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  electron-capture decay of, gamma spectra and half-lives from, (E), 25:25730 (UCRL-20412)
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  energy level from platinum-194 (C-12,4n) and platinum-195 (C-12,5n) reactions, lifetime for 8^+, (E), 25:10027 (JINR-E6-5379)
  energy levels and transitions from nuclear reactions and radioactive decay, Nuclear Data Sheets for, (E), 25:39015
  energy levels from astatine-202 electron-capture decay, (E), 24:28772 (JINR-P6-4868)
  energy levels from astatine-202 electron-capture decay, spin—parity assignments for, (E), 25:25730 (UCRL-20412)
  energy-level transitions from platinum-194 (C-12,4n) and platinum-195 (C-12,5n) reactions, probabilities for E2, (E), 25:10027 (JINR-E6-5379)
  fission of shape isomeric, half-life for spontaneous, (E), 24:15928
POLONIUM ISOTOPES Po-203
  alpha and electron-capture decay of, ratio for, (E), 25:5696
  alpha decay of, alpha branching and energy and half-life for, (E), 25:25730 (UCRL-20412)
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  electron-capture decay of, branching ratios, gamma spectra, half-lives, and Q and log-ft values for, (E), 25:25730 (UCRL-20412)
  electron-capture decay of, conversion electron and gamma spectra for, (E), 23:44888 (PPAR-15)
  electron-capture decay of, gamma and conversion-electron spectra from, (E), 25:5748
  electron-capture decay of, γ and conversion electron spectra from, (E), 24:15933
  electron-capture decay of, γ singles and coincidence spectra from, (E), 23:49414
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  energy levels and nuclear properties of, Nuclear Data Sheets for, (E), 25:36809
  energy levels from astatine 203 electron-capture decay, (E), 24:28772 (JINR-P6-4868)
  energy levels from astatine-203 electron-capture decay, spin—parity assignments for, (E), 25:25730 (UCRL-20412)
  energy levels from radon-207 alpha decay and astatine-203 electron-capture decay, spin—parity assignments for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy levels from radon-207 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
  fission of shape isomeric, half-life for spontaneous, (E), 24:15928
  gamma spectra for, (E), 22:53169(R) (PPAD-647-D)
  isomeric transition in, half-life and multipolarity of, (E), 24:1819 (JINR-P6-4553)
POLONIUM ISOTOPES Po-204
  alpha and electron-capture decay of, ratio for, (E), 25:5696
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, alpha energy and half-life for, (E), 25:25730 (UCRL-20412)
  alpha decay of, α spectra and half-life for, (E), 24:38223
  alpha decay of, calculation of rate of, 21:23528
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay, (E), 22:30032
  alpha decay, (E), 21:29978
  electron-capture decay of, conversion electron spectra from, (E), 25:1762
  electron-capture decay of, gamma spectra and half-lives from, (E), 25:25730 (UCRL-20412)
  electron-capture decay of, γ spectra for, (E), 22:42013 (JINR-E7-3868)
  electron-capture decay of, γ spectra from, (E), 24:6895
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  energy level from platinum-194 (C-12,2n) and platinum-195 (C-12,3n) reactions, lifetime for 8^+, (E), 25:10027 (JINR-E6-5379)
  energy level scheme from astatine-204 decay, (E), 24:52559 (JINR-E6-5197)
  energy levels and transitions from nuclear reactions and radioactive decay, Nuclear Data Sheets for, (E), 25:39016
  energy levels from astatine-204 electron-capture decay, spin—parity assignments for, (E), 25:25730 (UCRL-20412)
  energy levels from astatine-204 electron-capture decay, (E), 24:28772 (JINR-P6-4868)
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels from radon-208 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
  energy levels of, properties of, (E/T), 24:40609 (INR-1169)
  energy-level transitions from platinum-194 (C-12,2n) and platinum-195 (C-12,3n) reactions, probabilities for E2, (E), 25:10027 (JINR-E6-5379)
  half-life of isomeric, (E), 24:24584
  yields from argon-40- and neon-20-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  yields in argon-40 and neon-20 fission of uranium-238, (E), 23:5886
POLONIUM ISOTOPES Po-205
  alpha and electron-capture decay of, ratio for, (E), 25:5696
  alpha decay of, alpha energies and half-lives for, (E), 25:5696
  alpha decay of, half life and spectra for, (E), 21:33980
  electron-capture decay of, branching ratios, gamma spectra, half-lives, and Q and log-ft values for, (E), 25:25730 (UCRL-20412)
  electron-capture decay of, conversion electron and gamma spectra for, (E), 23:44888 (PPAR-15)
  electron-capture decay of, gamma and conversion-electron spectra from, (E), 25:5748
  electron-capture decay of, γ and conversion electron spectra from, (E), 24:15933
  electron-capture decay of, γ singles and coincidence spectra from, (E), 23:49414
  electron-capture decay of, half-lives and gamma intensities for, (E), 25:5696
  electron-capture decay scheme of, γ spectra for, (E), 22:53169(R) (PPAD-647-D)
  energy levels from astatine-205 electron-capture decay, spin—parity assignments for, (E), 25:25730 (UCRL-20412)
  energy levels from astatine-205 electron-capture decay, (E), 24:28772 (JINR-P6-4868)
  energy levels from electron-capture decay of astatine-205, 25:14995
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels from radon-209 alpha decay and astatine-205 electron-capture decay, spin—parity assignments for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy levels from radon-209 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
POLONIUM ISOTOPES Po-206
  alpha decay of, α spectra and half-life for, (E), 24:38223
  alpha decay of, calculation of rate of, 21:23528
  alpha decay of, half life and spectra for, (E), 21:33980
  alpha decay, (E), 21:29978
  decay schemes for, tables on, 23:33331 (BNL-13595)
  energy level scheme from astatine-204 decay, (E), 24:52559 (JINR-E6-5197)
  energy levels from astatine-206 electron-capture decay, spin—parity assignments for, (E), 25:25730 (UCRL-20412)
  energy levels from astatine-206 electron-capture decay, (E), 24:28772 (JINR-P6-4868)
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels from radon-210 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
  energy-level transitions in isomeric, (E), 21:29969(R) (UCRL-17299)
  half-life of isomeric, (E), 24:24584
  yields from argon-40- and neon-20-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  yields in argon-40 and neon-20 fission of uranium-238, (E), 23:5886
POLONIUM ISOTOPES Po-207
  alpha decay of, half life and spectra for, (E), 21:33980
  beta and electron-capture decay of, conversion electron and gamma spectra for, (E), 23:44888 (PPAR-15)
  beta and electron-capture decay of, γ and conversion electron spectra from, (E), 24:15933
  beta decay of, gamma spectra, β^+/EC branching, and log ft of, (E), 24:20416
  beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
  electron-capture decay of, gamma and conversion-electron spectra from, (E), 25:5748
  electron-capture decay of, γ singles and coincidence spectra from, (E), 23:49414
  energy levels and properties of, nuclear data sheets for, 25:28378
  energy levels at 391.4, 585, and 684 keV from radon-211 alpha decay, (E), 24:28773 (JINR-P6-4972)
  energy levels from astatine-207 decay, (E), 25:50719 (JINR-P6-5878)
  energy levels from astatine-207 electron-capture decay, spin—parity assignments for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels from radon-211 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
  energy levels of, spin—parity assignments for, (E), 23:15439
  energy-level transitions from astatine-207 electron-capture decay, multipolarities for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy-level transitions in isomeric, (E), 21:29969(R) (UCRL-17299)
POLONIUM ISOTOPES Po-208
  alpha and electron-capture decay of, (E), 21:5534 (MLM-1251)
  alpha decay of, α spectra and half-life for, (E), 24:38223
  alpha decay of, calculation of rate of, 21:23528
  alpha decay of, half life and spectra for, (E), 21:33980
  electron-capture decay of, γ and γ-γ coincidence spectra for, (E), 23:49424
  energy level at 687 keV from radon-212 alpha decay, (E), 24:28773 (JINR-P6-4972)
  energy level of, g-factor of 8^+ isomeric, (E), 25:12614
  energy levels and properties of, nuclear data tables for, 25:28375
  energy levels from (p,2n) reactions, (E), 24:18429
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels from radon-212 alpha decay, spin—parity assignments for, (E), 25:43887 (JINR-P6-5791)
  energy levels of, (E), 22:27166
  energy levels of, shell-model calculations of lowest-energy high-angular-momentum, 21:31870
  energy levels of, spin-parity assignments for, (E), 22:48551
  energy-level transitions from bismuth-209 (p,2n) reactions, EO, (E), 24:38279
  energy-level transitions from lead-208 (α,4n) reactions, (E), 21:29969(R) (UCRL-17299)
  energy-level transitions in isomeric, (E), 21:29969(R) (UCRL-17299)
  energy-level transitions in, conversion coefficients and multipolarities of, (E), 22:48551
  fission fragment angular anisotropy from lead-204 (α,f) reactions at 29 to 38 MeV, (E), 24:52573
  half-life of isomeric, (E), 24:24584
  isomeric transitions from lead-208 (α,4n) reactions, (E), 21:19260
  yields from argon-40- and neon-20-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  yields in argon-40 and neon-20 fission of uranium-238, (E), 23:5886
POLONIUM ISOTOPES Po-209
  alpha and electron-capture decay of, (E), 21:5534 (MLM-1251)
  Coulomb displacement energy polonium-209—bismuth-209, from production spectra from proton reactions with bismuth-209 at 39 and 62 MeV, (E), 25:23031 (ORNL-4638)
  determination in polonium-210 by gamma spectrometry, 22:33208(R) (MLM-1456)
  energy level of isomeric, g-factor of, (E), 23:7299
  energy levels and properties of, nuclear data sheets for, 25:28376
  energy levels from astatine-209 electron-capture decay, spin—parity assignments for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy levels from lead (α,xn) reactions, (E), 24:24584
  energy levels of, properties of multiparticle, (T), 25:56783
  energy levels of, semi-realistic shell model calculations for, (T), 25:50687
  energy-level transitions from astatine-209 electron-capture decay, multipolarities for, (E), 25:28333 (CERN-70-30(Vol.2), pp 1023-9)
  energy-level transitions in isomeric, (E), 21:29969(R) (UCRL-17299)
  energy-level transitions in, analysis of E2, (T), 25:56783
  energy-level transitions in, semi-realistic shell model calculations of rates for, (T), 25:50687
  half-life of, 22:33208(R) (MLM-1456)
  half-life of isomeric, (E), 23:7299

POLONIUM ISOTOPES Po-210

- accumulation by Ascophyllum nodosum and marine phytoplankton influence of cellular respiration inhibitors on, 25:10941
- accumulation in aquatic and marine animals, 23:17980 (CONF-670503-, pp 535-46)
- accumulation in aquatic ecosystems in Finland, 25: 18930 (NYO-3446-14, Paper 27)
- accumulation in organs and tissues in lactating goats following ingestion, 24:5990
- accumulation in tissues and urine of uranium miners, effects of time following exposure on measuring, 23: 24655
- activity at surface of encapsulated, design of evacuated chamber for determination of, 23:16127
- activity in bones and muscles of caribou and reindeer, seasonal variations in, 21:26405 (ANL-7220, pp 51-8)
- alpha decay of, calculation of rate of, 21:23528
- alpha decay of, fluorescence yield of M x rays in, 21: 21963 (BNL-994, pp 3-19)
- alpha decay of, recovery of lead-206 from, 23:21777(R) (MLM-1531)
- alpha emission by, dosimetry of, in man following cigarette smoking, 22:38275
- alpha emission by, effects of, on kidney function in dogs, 22:51776
- alpha emission by, effects of, on rats following injection, 22:49502
- alpha emission by, in bone and reproductive organs of man, measurement of, 22:2517
- alpha emission by, pathologic effects of, on blood vessels in kidneys of rats following injection, 22:23628
- alpha particles from, dosimetry of, 24:50636
- alpha spectra for, (E), 23:19998
- analysis for polonium-209 by gamma spectrometry, 22: 33208(R) (MLM-1456)
- angular distributions from lead-206 (He-4,3n) and lead-207 (He-3,3n) reactions, (E), 25:14996
- availability of, for isotopic power generation in Europe, 21:26095
- availability, characteristics, and cost of, for use as power sources, 22:8307
- calorimetric measurements of, 21:22364(R) (BNWL-235-2)
- content in air and water discharged at Mound Laboratory in 1967, 22:21205(R) (MLM-1464)
- content in Alaskan biological samples, 21:22364(R) (BNWL-235-2)
- content in Arctic biota, 21:26405 (ANL-7220, pp 51-8)
- content in Atlantic Ocean surface samples and at various depths in Pacific Ocean, 25:34762
- content in atmosphere and drinking water in Miasa Mine area and Okayama City, Japan, 23:40868
- content in atmosphere and rainwater at Toulouse, France, 22:183
- content in atmosphere from reentry burnup of isotopic power sources, prediction of, 21:4620 (AHSB(RP)M-41)
- content in atmosphere in the UK since 1961, 21:6048
- content in atmosphere, significance of excess, 24:5760
- content in birds and mammals in Finland, 25:46766
- content in building materials, standards for maximum allowable, 23:13967(T) (TT-67-51409/4, pp 387-92)
- content in cigarette smoke, 21:22346
- content in Finnish ground-level atmosphere, seasonal variation in, 24:20897
- content in fish used for food, naturally occurring, 21: 39373(R) (RLO-1750-22(Vol.1))
- content in food chain of Finnish Lapps in 1966, 21: 36570 (CONF-670313-2)
- content in human bones and teeth in New England, 22: 2220
- content in human diet, 21:20103
- content in human diet, factors affecting, 21:26405 (ANL-7220, pp 51-8)
- content in lead metals, age estimation of works of art from, 21:16008
- content in lower stratosphere, Project Airstream measurements of, Aug. 1967, 22:25527 (HASL-193, pp I.33-207)
- content in lung tissues of, in smokers and nonsmokers, relationship to pulmonary cancer, 21:24349
- content in organs of persons exposed to natural background radiation, 21:26461
- content in Pacific Ocean near Point Arguello, California, 21:14340 (TID-23476)
- content in potable waters in Illinois, 22:2207
- content in rainwater, 24:33798
- content in rainwater, 21:6044
- content in river waters in Czechoslovakia, (E), 25:54774
- content in soft tissues of man, effects of cigarette smoking on, 21:26434
- content in stratospheric fallout, 22:8224
- content in surface seawater, Dec. 1966 to Nov. 1967, 22:10404 (CU-3139-1(App.A))
- content in tissues of lungs of cigarette smokers, 21: 22346
- content in upper atmospheric samples collected above selected global stations, 1966, 21:41019(R) (HASL-182)
- content in urine from uranium mine personnel, relation of inhalation exposure to radon-222 daughters to, 24: 50795(T) (ANL-Trans-847)
- content in urine of man, method for determination of, 22:40717
- content in young human bones, measurement of natural, 25:37723
- content of AEC contractor personnel during 1957 to 1966, statistical analysis of, 23:24645
- content of airborne dusts, use of electrochemical displacement to determine low-level, 23:933(R) (NIRS-6)
- content of aquatic fauna, effects of, on human diet, 23: 769 (ANL-7360, pp 68-149)
- content of aqueous and terrestrial ecosystems in Finland, 25:37789(R) (NYO-3446-15)
- content of Arctic food chain in relation to natural radiation exposure of Lapp population, 23:31772
- content of atmosphere and river water at Miamisburg, Ohio during 1970, 25:26739(R) (MLM-1795)
- content of atmosphere and surface waters in environs of Mound Laboratory during January to June 1967, 23: 12089
- content of atmosphere and surface waters in environs of Mound Laboratory during 1968, 23:35751
- content of atmosphere and surface waters in vicinity of Mound Lab., Miamisburg, Ohio, during January to July 1970, 25:16077 (MLM-1784)
- content of atmosphere, food, human tissues, and water in Soviet Union, 23:18004(T) (AEC-tr-7030, pp 163-70)
- content of biological samples from uranium miners in relation to mean exposures, 23:29487
- content of birds and mammals in Finland during 1968, 23:6448 (NYO-3446-11, pp 61-7)
- content of blood of man, effects of tobacco smoke inhalation on, 23:6359
- content of blood, hair, feces, and urine of uranium mining personnel, assay of, 23:48033
- content of blood, liver, and lungs of man, effects of tobacco content on, 22:23521
- content of bone, muscle, and rumen of caribou and reindeer in Alaska, 22:10776
- content of bones and livers of animals and man, 25: 21648
- content of bones of man in Far North USSR during 1965, 22:33803 (A-AC-82/G/L-1190)
- content of bones of uranium miners, relation of exposure to radon-222 daughters and, 23:26665
- content of caribou, Eskimo placenta, reindeer, and wolves of Arctic region, 23:14185
- content of cigarette smoke, 25:8623 (BNWL-SA-3419)
- content of cigarette smoke and tobacco, 21:43377
- content of cigarette tobacco, effects of, on incidence of lung neoplasms in man, 22:10756 (COO-1540-5)
- content of cured and green tobacco leaves, fresh vegetables, and soil, 22:38287
- content of ecosystems, 22:28447 (ANL-7278, pp 304-13)
- content of environment and human tissues in Soviet Union, 25:42429
- content of fallout samples collected during 1968 and 1969, 24:44456 (HASL-217, pp II.1-215)
- content of fish in Finland during 1967, 23:6449 (NYO-3446-11, pp 68-73)
- content of fish protein concentrates, 25:13394(R) (RLO-2099-1)
- content of food chains in Finland, 25:18931 (NYO-3446-14, Paper 30)
- content of food chains in Finland, 21:41378 (CONF-660827-2)
- content of foods and soils, accuracy in low-level measurement of, 23:12118
- content of greenhouse soil and vegetation, role of fallout as primary source for, 25:8593 (COO-1733-11)
- content of heartwood in hickory and oak trees, effects of age on, 24:27501 (ANL-7615, pp 38-43)
- content of human bones from residents of arctic regions of Soviet Union sampled during 1965, 25:16067(T) (AEC-tr-7214, pp 108-14)
- content of human teeth in New Hampshire and Vermont, 24:48474
- content of human tissues in USA in comparison to cesium-137 and lead-210, 23:50328
- content of human urine as measure of exposure to radium and radium decay products, 24:34328
- content of human urine in relation to smoking, 24:34328
- content of human urine, effects of occupation on, 23: 31731
- content of lichen-reindeer-man food chain in subarctic regions before and after atomic bomb tests, 24: 12032(T) (AEC-tr-7128, pp 180-93)
- content of man in Alaska, relation of, to consumption of caribou meat, 24:19309
- content of man in Finland during 1960 to 1970, 25: 18986 (NYO-3446-14, Paper 28)
- content of man in Finland during 1961 to 1969, 23: 41303 (NYO-3446-13, Paper 22)
- content of man in Soviet Union, effects of age and geography on, 25:16066(T) (AEC-tr-7214, pp 87-107)
- content of marine organisms in Pacific Ocean, 25: 13394(R) (RLO-2099-1)
- content of marine organisms, ratio of, to lead-210, 23: 45641
- content of marine plankton off South African coast during 1965 to 1966, 22:6817
- content of marine protein concentrates and seafood in relation to radiation dose to man, 23:31737
- content of milk following contamination of pasture, 23: 14138
- content of off-site atmosphere and surface waters at Mound Laboratory during July to December 1969, 25: 21693
- content of outer skin of Apollo 8 spacecraft in relation to uranium content of moon, 24:23051(R) (BNWL-1183-2)
- content of particulate, in Atlantic Ocean, effects of latitude and longitude on, 23:49964 (BNWL-1051(Pt.2), pp 50-1)
- content of pastures, suggested revision of MPC values for, 25:18890(R) (COO-2044-3)
- content of protein in surface feeding marine fish, 25: 37721 (RLO-2225-T-14-2)
- content of reindeer-breeding personnel in Sweden from 1961 to 1966, effects of fallout on, 23:38562
- content of soils in USA and Puerto Rico, effects of soil type on, 24:34186(R) (COO-1733-9)
- content of stratosphere during June 1968, 23:35705(R) (HASL-210)
- content of terrestrial birds and mammals of Finland, comparison of bone and soft tissue, 25:18929 (NYO-3446-14, Paper 26)
- content of tissues in man, 22:40692
- content of tobacco, 23:26778
- content of tobacco and tobacco smoke, 23:9832 (NP-17514, pp 25-46)
- content of tobacco and urine of human smokers in Yugoslavia, 23:14183
- content of tobacco in Italy, 23:14184
- content of tobacco products, 22:23521
- content of tobacco, determination of, 22:2511
- content of tobacco, effects of curing method and plant variety on, 23:29338
- content of tobacco, effects of fertilizer and soils on, 23: 29491
- content of upper atmosphere at selected global stations during 1968, 23:50459(R) (HASL-204)
- content of uranium mining personnel, use of, in determination of occupational hazards, 23:29467 (COO-1500-10)
- content of urine in man in relation to body burden, 22: 2508 (SC-TM-67-405)
- content of urine of uranium miners, 24:34371
- content of, in biosphere, 21:6468
- content of, in diet of man, effects of geography on, 21: 6468
- content of, in grasses, effects of geography on, 21:6468
- content of, in lichens, effects of geography on, 21:6468
- content of, in tissues of smokers and nonsmokers, 21: 6529
- content on human urine in population and uranium mining personnel, 23:48035
- content on surface and interior layers of swine skin after soaking, effects of pH and soiling time on, 21:17987
- decay of, (E), 25:14996
- decay of, in-beam measurement of internal conversion electrons from, (E), 25:9978(R) (ORO-3398-26)
- deposition by rainwater from artificially contaminated clouds, (E), 24:9528(T) (UCRL-Trans-10412)
- deposition from perchloric acid, 22:8018
- deposition in bones of cattle in Italy during 1962 to 1968, 25:42382
- deposition of thin films of, on aluminum and titanium, vacuum evaporation-condensation method for, 24: 19164 (ORNL-4510)
- detection at landing sites of Surveyors 6, 7, and 8, (E), 24:21514
- determination by paper chromatography and counting, 25:31842
- determination in air and rainwater, 22:35750
- determination in air filter samples collected during Project Stardust, 21:6489(R) (HASL-176)
- determination in airborne dusts by electrochemical displacement, 22:21046
- determination in Apollo 12 Solar Wind Composition foils, 25:37306(R) (BNWL-1183-8)
- determination in biological materials, radiochemical method for, 22:38287
- determination in biological materials, tobacco, and water, electrochemical deposition and radiometric method for, 23:49737
- determination in bismuth-210—lead-210—polonium-210 by liquid scintillation counting, direct, 23:67
- determination in brass, bronze, and iron by α spectroscopy, 23:45223(R) (NYO-3953-1)
- determination in cigarettes and tobacco, 25:34515
- determination in cigarettes by neutron activation, 23: 28769
- determination in dusts, soils, vegetation, and water by deposition on silver discs and α counting, 25:40 (IDO-12073, pp 28-36)
- determination in hair of uranium mine personnel to estimate low exposures to short-lived decay products of radon-222, 25:46831
- determination in human lung by electrochemical displacement and alpha counting, 21:24067 (NIRS-5, pp 10-16)
- determination in human urine, use of, for detecting internal contamination by radon-222, 21:18005
- determination in lead by alpha spectroscopy or scintillation counting, 23:43
- determination in lunar surface-exposed solar wind foils, 25:26187(R) (BNWL-1183-7)
- determination in oysters, radiochemical method for, 25: 40 (IDO-12073, pp 28-36)
- determination in phytoplankton, seawater, and zooplankton by solvent extraction, electrodeposition, and α counting, 24:36182
- determination in radioactive waste by separation and counting, 23:27
- determination in rat tissues, effects of dry ashing in muffle furnace on, 22:25263
- determination in seawater by solvent extraction and α counting or α spectrometry, 25:2112
- determination in snow in Antarctica, α spectrometric, 25:10477
- determination in soft tissue, tobacco, or urine by plating on silver and counting, 21:30352 (PHS-999-RH-27)
- determination in solutions by gamma spectroscopy, 23: 37906 (MLM-1654)
- determination in solutions by liquid scintillation counting, 25:216(R) (MLM-1726)
- determination in stratospheric fallout by α spectroscopy, 22:8224
- determination in thermal coating of Apollo 12 spacecraft as measure of uranium content in lunar materials, 25: 6280(R) (BNWL-1183-6)
- determination in tobacco by α counting, 25:51397
- determination in urine by alpha counting, 22:21029 (SC-M-67-3044)
- determination in urine by radiometric method following separation by solvent extraction using benzohydroxamic acid, 25:31834
- determination in urine in presence of lead-210, radium-226, and uranium by radiation counting, 21:32112
- determination in urine, methods used at CNEN for, 25: 57347 (RT/PROT-(71)9)
- determination in urine, radiochemical method for, 22: 44970 (AERE-AM-103)
- determination in water and biological materials by liquid scintillation spectrometry, 25:51620

determination of low levels of, in environmental materials by spontaneous deposition on silver, 23:89
determination of particulate, in Pacific Ocean depth profile by α counting, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of, by liquid-scintillation counting, 21:10277
determination of, in human urine, method for, 21:4440 (Y-KG-36)
determination of, in ice and water, 21:6024
diffusion in stratosphere, study of mixing processes in, 21:6067
distribution and exchange in organs and tissues of dogs, kinetics of, 25:23962(T) (AEC-tr-7195, pp 128-35)
distribution in dog femur, thick-source α spectroscopy for determining, 24:31816 (ANL-7489, pp 81-7)
distribution in dog tissues following inhalation in uranium ores, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution in dogs, mice, rabbits, and rats, autoradiographic methods for quantitative measurements, 23:45603(T) (AEC-tr-6982)
distribution in mice after inhalation in tobacco smoke, 21:28651
distribution in mouse tissues, autoradiographic determination of, 21:20077
distribution in Northeast Pacific Ocean as function of depth, June 1967, 23:13669 (BNWL-715(Pt.2), pp 1-149)
distribution in Olympic National Park environment, 23:11444 (BNWL-481-2, pp 1-126)
distribution in rats following radon inhalation, 23:24537
distribution in soils, equilibrium coefficients for, 22:40659(R) (COO-1733-1)
distribution in stratosphere, 21:17739(R) (AD-642279)
distribution in tissues of dogs following inhalation of uranium ore dusts, 23:6339 (BNWL-714, pp 3.1-38)
distribution in tissues of uranium mining personnel, 25:55117
distribution in troposphere and lower stratosphere, (E), 24:36417
distribution of, in two-phase system, liquid scintillation counting for determination of, 21:10277
dose to critical organs in mammals, model for calculation of, 24:27513
dose to man, from atmosphere and water, 23:2829
dosimetry in human populations, 23:9832 (NP-17514, pp 25-46)
effects of polonium chloride-incorporated on rats, 21:4865
effects on adrenal glands and histochemical responses of rats, α, 23:24725
effects on adrenals, pituitary, and thyroid of rats, α and γ, 22:47606
effects on blood vessels in kidneys of animals, pathological α and γ, 24:5989
effects on blood, carcinogenesis, and life span of animals in comparison to plutonium-239, 25:8596(T) (LF-tr-41, pp 127-97)
effects on brains of dogs, histopathological polonium-210 α, 23:22371(T) (AEC-tr-6944, pp 316-23)
effects on calcium, potassium, and sodium content of rabbit tissues, 22:47611
effects on cells of various tissues, electron microscope studies of, 21:14714
effects on chromosomes and mitotic spindle in Tradescantia meiocytes following administration on microneedles, 24:48748
effects on content of antibodies and cytotoxins in blood of rats, 23:29316
effects on corticosterone levels in rats, effects of dose and duration of pathological process on α and γ, 24:604
effects on dogs, pathology of lethal α, 23:22367(T) (AEC-tr-6944, pp 281-7)
effects on dogs, tumorigenic, 25:52211
effects on filtration and secretion by dog liver, α, 23:22368(T) (AEC-tr-6944, pp 388-99)
effects on guinea pigs, effects of time on anaphylactic, 22:33912
effects on guinea pigs, use of Hoigne's method for determination of autosensitization processes following, 22:15056
effects on histology and physiology of rat thyroid, α, 23:22370(T) (AEC-tr-6944, pp 309-15)
effects on hormone production by adrenal glands in rats, α and γ, 23:18113
effects on immune reactions in guinea pigs, α and γ, 24:9785
effects on immune response of guinea pigs, α and γ, 23:22183(T) (AEC-tr-6944, pp 697-702)
effects on incidence of enteric infections following ingestion by rats, α and γ, 23:18110
effects on kidneys and liver of dogs following injection, protective effects of oxathiole against chronic, 25:29563
effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
effects on lungs, carcinogenic, 21:6619
effects on microorganisms in rats, 21:34670
effects on nerve elements of gastrointestinal tract of dogs and rats, latent α and γ, 23:12225
effects on neurosecretion in rats, α, 23:22369(T) (AEC-tr-6944, pp 300-8)
effects on proteinogenic function of liver in human children following accidental contamination, 24:14612
effects on radiation body burdens of man, 22:33800 (A-AC-82/G/L-1182)
effects on sulfadimerazine metabolism in rats, α, 23:22372(T) (AEC-tr-6944, pp 324-32)
effects on survival of mouse oocytes, RBE for, 21:20057
elimination from canine blood, use of ion exchangers for, 23:22274(T) (AEC-tr-6944, pp 622-5)
encapsulation of heat source of, design and operation of facility for remote, 24:22852
energy level of, g-factor of 8$^+$, (E), 24:52563(R) (NP-18217)
energy level of, magnetic core polarization in (h/sub 9/2/^{2})8$^+$, (E), 24:43392
energy levels and transitions from electron-capture decay of astatine-210, (E), 22:20618
energy levels and transitions from nuclear reactions and radioactive decay, Nuclear Data Sheets for, (E), 25:39017
energy levels from 4p—2h shell-model calculation including core excitation, spin—parity assignments for, (T), 25:5737
energy levels from bismuth-209 (α,t) reactions, suggested spin—parity assignments and proton configurations for, (E), 25:53759
energy levels from bismuth-209 (He-3,d) reactions, (E), 25:9966(R) (COO-1265-94)
energy levels from lead (α,xn) reactions, (E), 24:24584
energy levels from lead-208 (α,2n) reactions at 30 MeV, time-differential spin-rotation patterns for, (E/T), 25:5742
energy levels from lead-208 (α,2n) reactions, core-excited, (E), 25:59817
energy levels from lead-208 (α,2n) reactions, g-factors and E2 transition probabilities for, (E), 22:27166
energy levels of, anomalous orbital magnetism of proton from magnetic moment of 11$^-$, (E/T), 25:5742
energy levels of, calculation using Hamada—Johnston potential, (T), 24:43418
energy levels of, calculation using Kuo matrix elements, (T), 23:37290(R) (NYO-4032-3)
energy levels of, calculations using spin—spin plus tensor residual interaction, (T), 23:37218
energy levels of, g-factors and lifetimes of, (E), 23:10961(R) (NP-17704)
energy levels of, properties of multiparticle, (T), 25:56783
energy levels of, seniority-violating matrix elements for, (T), 24:3978
energy levels of, shell-model calculations on, (T), 24:52587
energy levels of, shell-model calculations using Green's velocity-dependent potential, (T), 23:7310
energy levels of, shell-model calculations using nonlocal Tabakin potential with core polarization effects simulated by pairing + quadrupole forces, (T), 23:19314
energy transfer by alpha particles of, to subcellular units, 23:12037
energy-level calculations using shell model with separable potentials, 21:30078
energy-level density of, shell-model calculations for, (T), 24:49961
energy-level transition probabilities for, effective charge of h/sub 9/2/ proton from E2, (E), 23:8978
energy-level transitions from 4p—2h shell-model calculation including core excitation, reduced transition probabilities for, (T), 25:5737
energy-level transitions in isomeric, (E), 21:29969(R) (UCRL-17299)
energy-level transitions in, analysis of E2, (T), 25:56783
evaluation for propulsion and integrated power system for spacecraft, 21:24178
excretion by man following ingestion, 21:24421(T) (ANL-Trans-458)
excretion by man following ingestion of polonium nitrate, 23:24616 (RT/PROT-(68)18)
excretion by man in relation to whole-body content, 23:29328
excretion in urine by Alaskan Eskimos, effects of diet on, 23:11444 (BNWL-481-2, pp 1-126)
excretion in urine by man, methods for calculation of safe limits of, 22:6811
excretion in urine of uranium miners, calculation of, 25:24034
excretion in urine of uranium mining personnel, effects of bismuth-210 and polonium bone metabolism on, 25:32332
fission barrier for, (E/T), 22:30022
fission barrier height for, (E), 21:7774 (UCRL-16489)
fission barrier height, (E), 21:42668
fission of, dependence of fragment properties on excitation energy and angular-momentum distribution in, 24:30802
fission of, threshold and saddle point for, 25:15010
fission saddle point in alpha reactions with lead-206, pairing effects at, (E), 22:39640 (UCRL-17989, pp 127-57)
gamma emission by, dosimetry of, in man following cigarette smoking, 22:38275
gamma emission by, effects of, on kidney function in dogs, 22:51776
gamma emission by, effects of, on metabolism of electrolytes by rabbits and rats in relation to function of adrenal cortex, 22:49608
gamma emission by, effects of, on rats following intratracheal injection, 22:49502
gamma emission by, pathologic effects of, on blood vessels in kidneys of rats following injection, 22:23628
gamma spectra of, use of lithium-drifted germanium spectrometer for measuring, 21:41200 (BMwF-FBK-67-66)
half life, 21:25512 (MLM-698)
half life in dogs, 21:38815(R) (BNWL-293)
half life of, measurement using decaying pair method, 21:31777(R) (MLM-1388)
half-life and type of decay of, 22:42698
half-life of isomeric, (E), 23:8978
half-life of isomeric, (E), 24:24584
half-life of, decaying pairs method for determining, 21:12380(R) (MLM-1342)
half-life of, determination by proportional α counting and by method of decaying pairs, (E), 23:9511(R) (MLM-1520)
half-life of, measurement using calorimetry, 21:27573 (MLM-699)
hazards to personnel working with lead, 21:26460
ingestion by man in contaminated diet, potential long-term hazards from, 25:26684
inhalation by rats, effects of, on incidence of neoplasms, 22:2537
inhalation by uranium miners, 21:20167(R) (COO-1500-3)
inhalation of, hazards to mice from, 21:28596 (UR-669)
isomeric transitions from lead-208 (α,2n) reactions, (E), 21:19260
metabolism and tissue distribution following intake by man, 25:42467
metabolism by cattle and goats following ingestion in oxide form, coefficients for transfer to meat and milk during, 25:18890(R) (COO-2044-3)
metabolism in animals, 23:50279 (PHS-999-RH-33, pp 45-50)
metabolism in dogs, rabbits, and rats following subcutaneous injection, effects of species on, 24:7722
metabolism in kidney bean plants, effects of citrate ions, 2,4-D, and salts on, 22:6728
metabolism in mammals and man, review of, 25:32326
metabolism in ovaries and uterus of mice, 21:20057
metabolism in tissues of tobacco plants, 23:31628
migration in soils, hazards to water supplies from, 25:8593 (COO-1733-11)
monitoring in Arctic ecosystems in Finland, 21:36571 (CONF-670503-18)
monitoring of Mound Laboratory area, environmental, 22:45183 (MLM-1522)
monitoring of Mound Laboratory area, environmental, 23:21823(R) (MLM-1619)
neutron production by, in soils, 22:30705
nuclear g-factor of isomeric, core polarization effect on, (E), 24:20390
performance as α-source, for use in x ray excitation, 22:249(R) (NYO-3491-2)
performance as heat source for SNAP-29, 22:42977(R) (SC-PR-68-451)
performance in space power sources for short durations, 23:38194
preparation by neutron irradiation of bismuth, purification by solvent extraction using dibutyl carbitol in, 22:6370
preparation of alpha sources of, 21:15966(P)
preparation of carrier-free, by neutron irradiation of bismuth, 23:4722
preparation of deposits of, 21:40977
production and requirements for marine, space, and terrestrial power systems, 24:22885
production and use as heat sources in thermoelectric converters in USSR, review of, 24:22897
production and uses, review on, 23:4670
production by neutron irradiation of bismuth, 23:45393(P)
production by neutron irradiation of bismuth-209—magnesium alloy, description of method for, 23:21901(P)
production by neutron reactions with bismuth, 24:27189(R) (MLM-1612)
production by neutron reactions with bismuth and molecular distillation, 24:22727 (MLM-1661)
production in power reactors, economic aspects of, 22:119
production of, iron and tin contamination in, 25:51584(R) (MLM-1792)
properties for isotopic heat sources for space application, 21:1529
properties for radioisotopic heat sources, 22:16770 (BNWL-680, pp a.1)
properties for use as alpha source for production of excited nitrogen ions in light sources, 24:48224 (RPI-3816-4)
properties for use as heat source, 23:6091 (MLM-1563)
properties for use as heat source for space power systems, 24:22886
properties for use as heat source for subliming microthruster for space propulsion, 25:42017
properties for use as heat source for thermoelectric generators, 25:42014
properties for use as heat source in aerospace life support system, 23:4780 (LMSC-680679)
properties for use as heat source in Poodle thruster for space propulsion, 25:48746
properties for use in nuclear battery, 23:21898
properties for use in power production, 23:530 (N-68-29959)
properties in isotopic power generators, 21:26095
properties of, data sheets on, 22:8724 (MLM-1441)
proton decay of, particle identification using multiple scattering in nuclear emulsion, (E), 22:35305
purification from irradiated bismuth, 22:18861 (BNWL-584)
radiation dose from ingested spherical particles of, in man, 21:26420(R) (SC-CR-66-2144)
radiation dose from inhaled spherical particles of, in man, 21:26420(R) (SC-CR-66-2144)
radiation dose probabilities from shallow ocean water release of, 21:36176
radiation dose to man following ingestion or inhalation of oxide particles containing, α and γ, 22:23509(R) (SC-CR-67-2729)
radiation dose to man from, in body after drinking radon-contaminated water, 21:24426
radiation sickness in rats induced by, sulfathiazole therapy of, 23:22321(T) (AEC-tr-6944, pp 688-96)
radioactive contamination following rupture of unsealed source of, calculation of, 22:49339
radioactive halos of, in biotites, 22:33556
ratio to radium-226 in human bone samples, method for using thick-source α spectroscopy to determine, 24:19286 (MIT-952-6, pp 1-132)
release by barium cerate at 800 to 1000°C by volume diffusion, 25:6322 (DP-1240)
removal from fault water by coagulation with metal hydroxides, 22:51067
removal from human skin, effectiveness of unithiol for, 22:43333

  - removal from smoke of cigarettes, by mixed ion-exchange resin filter, 21:28451
  - safety characteristics of, used in space vehicle propulsion systems in launch-abort environment, 22:30776 (SC-CR-67-2801)
  - separation from bismuth, by vacuum distillation, effects of surface depletion on, 23:15940
  - separation from irradiated bismuth, 25:29413 (CONF-691225)
  - separation from irradiated bismuth by liquid metal distillation, tests on equipment for, 24:44065 (DP-1222)
  - shipping of aluminum-clad bismuth slug-contained, design of container for, 24:11759
  - shipping of, design of pressurized Type 304 stainless steel container for, 23:50092 (DPSPU-69-124-2)
  - solubility in airborne dusts in different reagents, 24:39220 (NIRS-8, pp 1-17)
  - sorption as oxide by agricultural top soils in relation to silt content and soil pH, distribution coefficients for, 25:8593 (COO-1733-11)
  - sorption by rats via wounds, 23:22163(T) (AEC-tr-6944, pp 106-12)
  - sorption from rat intestine, prevention with antidotes, 23:22275(T) (AEC-tr-6944, pp 670-7)
  - sorption in agricultural soils following contamination, distribution coefficients for fallout, 25:26684
  - sorption of, by manganese oxides in water works filter bed materials, 21:16006
  - transfer through human food chain to man as function of age, diet, and sex, fallout, 24:48458 (BNWL-1307(Pt.2), pp 28-30)
  - transfer to man from contaminated dairy pasture through milk, 22:33811 (COO-1733-2)
  - transport of particles of, through world environment, 25:37771 (BNWL-1551(Pt.2), pp 46-50)
  - transport through aquatic food chains to man in Finland, 23:41304 (NYO-3446-13, Paper 23)
  - transport through food chains to man, 23:41303 (NYO-3446-13, Paper 22)
  - transport through soils to agricultural plants, mechanisms for, 24:34186(R) (COO-1733-9)
  - transport through soils to agricultural plants, mechanisms for, 24:34187(R) (COO-1733-10)
  - uptake and transfer to milk in dairy cattle in relation to environmental hazards, 24:31889(R) (COO-2044-1)
  - uptake and translocation in plants, 24:50698
  - uptake as oxide from soils by crops, transfer coefficients for calculating human dietary intake from, 25:8593 (COO-1733-11)
  - uptake by excised skin of swine, following application in aqueous solutions, 23:6441(T) (NSJ-tr-111)
  - uptake by fish from ecosystem, 22:28447 (ANL-7278, pp 304-13)
  - uptake by man following inhalation, 22:33715 (SZS-15/67)
  - uptake by marine organisms, 23:43718
  - uptake by plants from alkaline soil, hazards of, in agricultural areas, 24:27564
  - uptake by plants from soils, 22:45422
  - uptake by tobacco plants, mechanism for, 22:6830
  - uptake from soil by crop plants, transfer coefficients for, 25:26684
  - uptake from soil by plants, mechanisms for natural background, 25:510
  - uptake from soil by vegetable fruits and leaves, analysis of, 22:40659(R) (COO-1733-1)
  - uptake of dust-borne, by inhalation, 23:2827
  - uptake of oxides of, from soils by tissues of vegetable plants, 23:33664 (COO-1733-3)
  - use as α source, 22:14680
  - use as α source for x-ray production, 21:1525(R) (NYO-3491-1)
  - use as heat source for electric power generation, performance characteristics for, 22:19051
  - use as heat source for space applications, economics of, 21:4670 (NASA-SP-131, pp 73-93)
  - use as heat source in lunar roving vehicle power system, 21:41149 (NASA-CR-784)
  - use as heat source in microelectronic device for measuring heat transfer coefficients in fluidized beds, 21:32330
  - use as heat source in small manned Antarctic station, 21:19854
  - use as heat source in thermionic converters, 24:2396(T) (ORNL-tr-1389)
  - use as heat source in thermoelectric generators, 22:6543
  - use as power sources for space applications, 21:6148 (STL-517-0034(Vol.1))
  - use as radiation source for static electric charge removal, 22:33613
  - use as SNAP-3 heat source, 22:47293 (MND-P-2368)
  - use as tracer to study propagation of ice crystals in clouds, 22:51188
  - use for irradiation of atmospheric aerosols to study charge equilibrium, 23:2424
  - use in space power generators, safety aspects of, 21:43193 (SC-DC-67-1900)
  - use of, as heat source in Poodle, 21:12603
  - use of, as heat source in Snapoodle, 21:12604
  - use of, as ion source for production of artificially-ionized atmospheres for biological systems, 21:10826
  - use of, for measuring snow accumulation, 21:6024
  - volatility in airborne dusts, 23:17302 (NIRS-7, pp 11-18)
  - volatility in airborne dusts, sublimation method for measuring, 23:38123
  - volatility in bones and muscles of animals, effects of temperature on, 24:565
  - washout from clouds, effects of precipitation on rate of, 23:17617
  - yields from argon-40- and neon-20-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  - yields in argon-40 and neon-20 fission of uranium-238, (E), 23:5886
  - ^{210}Bi—^{210}Pb—^{210}Po, analysis for each component by liquid scintillation counting, 23:67
- POLONIUM ISOTOPES Po-211
  - alpha decay of ground-state and isomeric, half-lives for, (E), 25:9966(R) (COO-1265-94)
  - alpha decay of, alpha energy from, (E), 24:6943
  - alpha decay of, α spectra and probability for, (E), 23:8976 (JINR-P6-4079)
  - alpha decay of, branching ration for, (E), 21:34009
  - alpha decay off, fine structure in α spectra from, (E), 25:31324
  - content of benthic fish and invertebrates, pelagic fish, and zooplankton of Pacific Ocean, 25:10997(R) (RLO-2225-T-14-1)
  - determination of trace amounts of, in soft tissues of animals exposed to airborne uranium ore dust, method for, 23:49725 (BNWL-1051(Pt.2), pp 1-6)
  - energy levels and properties of, nuclear data sheets for, 25:28377
  - energy levels from lead (α,xn) reactions, (E), 24:24584
  - fission saddle point in alpha reactions with lead-207, pairing effects at, (E), 22:39640 (UCRL-17989, pp 127-57)
  - preparation of radiation source of, by impregnation into sol oxide microspheres, 24:2402(P)
  - production of isomeric, in heavy ion-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  - properties for use as heat source in direct energy conversion devices, 24:384
  - yields of isomeric, in argon-48 and neon-20 fission of uranium-238, (E), 23:5886
- POLONIUM ISOTOPES Po-212
  - alpha decay of isomeric, coupled-channel formalism for, (T), 21:12050
  - alpha decay of, calculation of rate of, 21:23528
  - alpha decay of, calculations for reduced with assuming α cluster outside closed shell, (T), 23:28326
  - alpha decay of, directional correlations in, (E), 21:1095
  - deposition from decay of thorium oxide, spectral studies on gaseous electro-, 23:333
  - energy levels from bismuth-212 decay, spin—parity assignments for, (E), 23:21348
  - energy-level transitions from bismuth-209 (α,p) reactions, (E), 25:23033(R) (ORO-3924-5)
  - energy-level transitions in, multipolarities of, (E), 23:21347
  - fission barrier for, (E/T), 22:30022
  - fission barrier height for, (E), 21:7774 (UCRL-16489)
  - fission barrier height, (E), 21:42668
  - fission fragment angular anisotropy from lead-208 (α,f) reactions at 29 to 38 MeV, (E), 24:52573
  - measurement of, in air, 21:6083
  - metabolism in man following injection of Thorotrast, review of tissue studies of, 23:26794
  - nuclear structure of, alpha-particle-type four-body correlations in, (T), 24:30916
  - production of isomeric, in heavy ion-induced fission of uranium-238, (E), 22:22582 (JINR-P7-3710)
  - yields of isomeric, in argon-48 and neon-20 fission of uranium-238, (E), 23:5886
- POLONIUM ISOTOPES Po-213
  - uptake by man following inhalation, 22:33715 (SZS-15/67)
- POLONIUM ISOTOPES Po-214
  - activity in dust filters, determination of collection efficiency using, 23:9618
  - alpha decay of, calculation of rate of, 21:23528
  - alpha decay of, half-life measurement of, 25:18703
  - alpha decay of, interpretation of long-range α groups from, 24:20408
  - content in air filters, use of liquid scintillation detectors for direct determination of, 21:16188
  - content of air in uranium mines expressed in working levels, design of portable instrument to determine and compute, 24:19288 (MIT-952-6, pp 185-211)
  - content of tissues in uranium miners expressed in working level months, confirmation of recommended standards for, 24:19288 (MIT-952-6, pp 185-211)
  - content of uranium mines, instrumentation for determining, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
  - determination in air, radiometric method for, 24:43966(P)
  - determination in uranium air samples, radiometric, 25:29536
  - determination of, autoradiographic method for, 21:8585
  - distribution in atmosphere, methods for measuring, 22:2235
  - distribution in mine air, effects of particle size on, 25:39856(T) (AEC-tr-7232, pp 155-61)
  - distribution in respiratory tract of dogs and rabbits after radon inhalation, 25:39795(T) (AEC-tr-7232, pp 145-54)
  - dose to rats in Brazil from natural background radiation, 23:22287 (NYO-3086-8, pp I.1-42)
  - effects on workers in uranium mines, carcinogenic, 23:26915
  - energy levels from bismuth-214 decay, (E), 23:11019
  - energy levels from decay of bismuth-214, (E), 23:21337
  - energy levels of, spin-parity assignments for, 23:44934
  - energy-level scheme from bismuth-214 gamma spectra, (E), 22:20658
  - energy-level spins and transitions, (E), 22:3714
  - energy-level transitions from bismuth-214 beta decay, multipole mixing ratios and γ—γ angular correlations in, (E), 25:12555
  - energy-level transitions in, internal conversion coefficients and multipolar character of, (E), 22:20662
  - gamma spectra of, measurement using lithium-drifted germanium detector, (E), 22:3714
  - inhalation by uranium miners, 21:20167(R) (COO-1500-3)
  - inhalation of, alpha dosimetry in bronchial epithelium following, 25:42394(R) (NYU-4256-1)
  - inhalation of, hazards to mice from, 21:28596 (UR-669)
  - inhalation of, pathological effects on respiratory tract of, 21:22353
  - mixing and transport in air at 730 to 2690 m altitude, effects of atmospheric fine structure on, 24:29394
  - radioactive equilibrium with lead-214 in air at 700 to 1800 m altitude, effects of aerosol particles and mixing on, 24:29395
  - separation from air, efficiency of fiber filters for, 25:254
- POLONIUM ISOTOPES Po-215
  - alpha decay of, alpha intensity and gamma spectra from, (E), 25:17879
  - alpha decay of, half-life measurement of, 25:18703
  - energy levels from alpha decay of radon-219, 25:17948
  - energy levels from alpha decay of radon-219, (E), 21:23493
  - energy levels from radon-219 decay, spin and parity of, (E), 25:17879
  - gamma spectra of, line intensities in, (E), 22:44746
  - gamma spectra, (E), 22:20656
  - half-life of, 21:12380(R) (MLM-1342)
- POLONIUM ISOTOPES Po-216
  - alpha decay of, calculation of rate of, 21:23528
  - alpha decay of, directional correlations in, (E), 21:1095
  - half-life of, 22:1956(R) (MLM-1405)
  - inhalation by mammals, tissue distribution and dosimetry following, 23:29790
  - metabolism in man following injection of Thorotrast, review of tissue studies of, 23:26794
- POLONIUM ISOTOPES Po-218
  - alpha activity from, in air of residences, method for measurement, 21:28495
  - alpha decay of, calculation of rate of, 21:23528
  - content in air filters, use of liquid scintillation detectors for direct determination of, 21:16188
  - content in air, filtering efficiency of fibrous material for, 22:27580
  - content in atmosphere, due to rain washout from troposphere, 21:6077
  - content in French uranium mines, methods for measuring, 25:6431
  - content in particles in French uranium mine air, (E), 25:57564
  - content in rat organs and tissues following inhalation of radon-222, 25:42248
  - content in uranium mine air, 23:11671
  - content of air in uranium mines expressed in working levels, design of portable instrument to determine and compute, 24:19288 (MIT-952-6, pp 185-211)
  - content of air in uranium mines, measurement of, 22:45561
  - content of air in uranium mines, performance of respiratory filters for removal of, 23:24608 (COO-1500-9)
  - content of air of uranium mines in combination with lead-214 and bismuth-214, methods for measuring, 24:6032
  - content of atmosphere in uranium mines, method for measurement of, 22:8544
  - content of human respiratory tract from inhalation of uranium mine atmosphere, 23:48032
  - content of tissues in uranium miners expressed in working level months, confirmation of recommended standards for, 24:19288 (MIT-952-6, pp 185-211)
  - content of unattached, in atmosphere, equations for relation of condensation nuclei with, 24:11704
  - content of uranium mines, determination of, by alpha spectrometry, 22:19328(R) (COO-1500-5)
  - content of uranium mines, instrumentation for determining, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
  - content of, in coal and ore mines in Czechoslovakia, 1962 to 1965, 21:10449
  - deposition in lungs of uranium miners, factors affecting percent total, 24:7840
  - deposition in round-jet cascade impactor containing radon-222, 23:33573
  - deposition on alfalfa, effects of relative humidity and wind speed on, 22:21460(R) (COO-1171-82)
  - detection at landing sites of Surveyors 6, 7, and 8, (E), 24:21514
  - determination in air by α spectroscopy, 25:18363
  - determination in air from alpha activity, equation for, 23:13647 (HASL-202)
  - determination in air, air sampler with scintillation detector for, 23:35488
  - determination in air, alpha detection method for, 25:4040
  - determination in air, membrane filter for, 24:32002
  - determination in air, radiometric method for, 24:43966(P)
  - determination in radon-222-contaminated atmosphere by alpha spectroscopy, 23:28742
  - determination in uranium air samples, radiometric, 25:29536
  - determination in uranium mine air by alpha counting and weighted least squares method, 23:47391
  - determination of, autoradiographic method for, 21:8585
  - diffusion coefficient of, in relation to inhalation hazards in mines, effects of water molecule interactions on, 22:31092
  - diffusion equations in cylindrical geometry, steady state solutions for, 23:21807 (NYO-3086-8, pp VIII.1-28)
  - distribution in atmosphere, methods for measuring, 22:2235
  - distribution in closed volume of air, effects of walls on, 22:51106
  - distribution in respiratory tract of dogs and rabbits after radon inhalation, 25:39795(T) (AEC-tr-7232, pp 145-54)
  - distribution of, in man and rat following whole-body radon baths, 21:8896
  - dose to rats in Brazil from natural background radiation, 23:22287 (NYO-3086-8, pp I.1-42)
  - effects on ion balance in atmosphere, 25:54786
  - effects on workers in uranium mines, carcinogenic, 23:26915
  - electrostatic capture on charged capacitor disk, (E), 21:27005
  - inhalation by uranium miners, 21:20167(R) (COO-1500-3)
  - inhalation of, alpha dosimetry in bronchial epithelium following, 25:42394(R) (NYU-4256-1)

- measurement of, in air, 21:6083
- monitoring in uranium mines, non-vented air circulation system for reducing, 23:22288 (NYO-3086-8, pp VII.1-29)
- monitoring of free atoms of, method using diffusion batteries for, 25:6539
- monitoring of unattached fraction of airborne, equipment and method for, 23:41018
- physical properties of, in natural environment, 24:36416
- protection against, use of air-purifying respirators for, 23:16316
- radioactive halos of, in biotites, 22:33556
- ratio to bismuth-214 and lead-214 in air of uranium mines, 24:23178 (HASL-220)
- recoil in air, relations with alpha spectra of daughter products, 22:51105
- separation from air, efficiency of fiber filters for, 25:254

POLONIUM OXIDES
- electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
- transport of polonium-210-enriched, in Rocky Mountain watershed soil, horizontal and vertical, 25:39602

POLONIUM SULFATES
- decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)

POLYCRYSTALS
- crystallite distribution in, x-ray methods for measuring, 21:28778 (UCRL-14669)
- diffusion in, determination using beta sources, 22:31399
- fracture mechanisms of, 22:23712
- internal friction in, effects of diffusion on, 21:1908(T) (JPRS-37980)
- mechanical behavior of, effects of grain elastic anisotropy on, 23:6751
- Moessbauer spectra of, Goldanskii—Karyagin effect of vibration anisotropy in, 25:56377
- neutron inelastic scattering by, thermal, (T), 21:46644 (WANL-TME-1640)
- neutron pulse propagation in, frequency dependence of thermal, (T), 25:48007
- neutron scattering at low energy, thermal, (T), 21:17264 (JAERI-1113, pp 27-31)
- neutron scattering cross section calculations for point defects in relaxed lattice, 23:3550 (AERE-R-5841)
- neutron scattering in, computer program for calculating law of thermal, (T), 25:20229 (INR-1186)
- slip effects on ductility of cph metal, 22:43591 (ANL-7299, pp 227-37)
- surface friction of rhenium, effects of temperature on high-vacuum sliding, 21:26799 (NASA-TN-D-3955)

POLYENES
  - (Compounds containing more than two double bonds)
  - see also Alkenes
- radiation effects on electrostatic properties of, coated with silica or silicic acid films, 21:129(P)
- radioinduced graft polymerization of, with butadiene, 21:127(P)
- spectra of, research progress on, 25:37181(R) (COO-1693-6)
- superconducting properties of, 21:9498

Polyethylene
  - see Ethylene Polymers

POLYGALACTURONASE
- radiation effects on activity of, in tomatoes, cobalt-60 γ, 24:12345
- radiation effects on synthesis in Penicillium digitatum, effects of dose on γ, 25:46744
- radiation effects on synthesis of, in Penicillium expansum, γ, 25:10979
- radiosensitivity of aqueous solutions of, effects of concentration and dose on x, 24:46578

Polyisoprene
  - see 1,3-Butadiene, 2-Chloro-, Polymers

POLYMERIZATION
- book: Radiation Effects and Radiative Grafting Polymerization in Fibers, in Russian, 22:40128
- book: Radiation Polymerization, in Russian, 22:18856
- conference on macromolecular chemistry, Prague, 1965, Part 5, 22:14537
- control of radioinduced, remotely controlled pilot plant design for, 24:41598
- development of processes for radiation, 21:39146
- developments in emulsion, conference on, 23:33140
- effects of benzoyl peroxide and gamma and uv radiation on, comparison of effects of additives on, 21:5921
- equipment for, use of tracer techniques to measure polymer flow through, 22:14708
- formation of prebiological system by, during chemical evolution, 23:9875
- kinetics at high pressure, 22:4194
- kinetics of one-electron transfer initiated,, 24:46270
- kinetics of solid-state, 22:4195
- kinetics of solid-state, 22:4213
- mechanisms for adsorbed monomers, 22:8087(R) (COO-1580-3)
- method for radioinduced, for grafting compounds to films, 23:1067(P)
- methods of, review of, 21:15923
- photoinduced, chain center mixing in, 24:44027 (BNL-50205, pp 50-77)
- photoinduced, effects of mixing on rate of uv, 23:40676 (BNL-50149, pp 40-75)
- preirradiation techniques of graft, in various solvents, 22:51031
- processes in solid-state, 21:5913
- radiation processes in, developments in, 22:51016
- radioinduced, 22:8153
- radioinduced anionic, mechanisms of, 21:23994
- radioinduced catalytic, theory of, 21:17664
- radioinduced curing of coatings by, design of electron-emission system for, 22:23207(P)
- radioinduced emulsion, graft, and suspension, in industry, review on, 24:50398 (CONF-690916-(Vol.1), pp 69-84)
- radioinduced emulsion, γ, 22:23036(R) (TID-24281)
- radioinduced graft, abstracts of papers concerning, 25:39525 (NP-18894)
- radioinduced graft, development of apparatus for, 23:33223(P)
- radioinduced graft, infrared spectroscopic studies of, 21:15945
- radioinduced graft, kinetics of heterogeneous, 21:8356
- radioinduced graft, of compound onto films, method for, 23:2316(P)
- radioinduced graft, problems in, 24:31405
- radioinduced graft, review on, 21:32191 (NP-16834)
- radioinduced graft, review on industrial uses of, 24:27139
- radioinduced in dispersed systems, mean lifetime of growing chains for gamma, 21:30438 (BMwF-FBK-67-21)
- radioinduced ion and radical, mechanisms of, 23:2307(T) (NP-tr-1709)
- radioinduced ionic, rate constants for, 21:19698
- radioinduced ionic, rate constants for, 22:8101(T) (AEC-tr-6908, pp 117-29)
- radioinduced method for measuring chain scission and crosslinks in γ, 23:6156
- radioinduced solid-phase, mechanisms of, 21:24007
- radioinduced solid-phase, review of kinetics of, 21:25894
- radioinduced solid-state, electric conductivity induced during, 21:24008
- radioinduced solid-state, electron microscopic studies of, 21:24003
- radioinduced solid-state, mechanisms of, 23:11560
- radioinduced, abstracts of conference papers on, 25:41842 (CONF-690977-(Absts.))
- radioinduced, chain reaction method for, 25:4097
- radioinduced, conversion and molecular weight distribution in, effects of chemical kinetics, interaction of radiation attenuation, and mixing on γ or uv, 23:24213 (BNL-13037)
- radioinduced, development for industrial uses, 23:24260
- radioinduced, developments on, in Japan, 24:31403
- radioinduced, dilatometer for determination of rate in, 25:54616
- radioinduced, distribution of molecular weight in solid-state, 23:11573
- radioinduced, effects of catalysts on, 24:44027 (BNL-50205, pp 50-77)
- radioinduced, effects of diffusion on mechanism of, 23:47562
- radioinduced, effects of ions on mechanisms of, 25:23600
- radioinduced, equilibrium potentials of isolated metal areas in, 21:39662
- radioinduced, equipment for high-pressure, 22:6333
- radioinduced, ESR studies of, 22:47197
- radioinduced, for continuous production of graft polymers, 23:19773(P)
- radioinduced, in solution and solid phase, 22:4216
- radioinduced, ionic mechanisms in, 23:9428
- radioinduced, kinetic scheme of cationic, 21:40894
- radioinduced, kinetics of solid-state, 22:48887
- radioinduced, mechanisms and industrial aspects of, 24:7479
- radioinduced, mechanisms in solid-state, 21:15964
- radioinduced, mechanisms of, 23:15903
- radioinduced, mechanisms of, 23:47465(R) (ORO-2968-49)
- radioinduced, of textile fibers, review on problems in, 22:8091(T) (AEC-tr-6908, pp 18-24)
- radioinduced, of two films, continuous process for, 23:19764(P)
- radioinduced, of unsaturated monomers, electron, 24:36298(P)
- radioinduced, of vinyl monomer to sheet of high-polymer material, α and neutron, 23:19765(P)
- radioinduced, principles of, 23:13760
- radioinduced, progress in Israel on, 21:41150 (NP-16994)
- radioinduced, property improvement in materials by, 24:13952
- radioinduced, requirements for industrial-scale, 22:8152
- radioinduced, review of, 21:15923
- radioinduced, review of, 21:5912
- radioinduced, review of research on, 22:8089(T) (AEC-tr-6908)
- radioinduced, review of role of radical and ionic species in, 21:23993
- radioinduced, review of solid-state, 21:5913
- radioinduced, review on, 24:7471
- radioinduced, review on developments in, 23:45324
- radioinduced, review on methods for, 25:29122
- radioinduced, role of free radicals in, 22:47182
- radioinduced, theoretical and practical studies on, 24:13920
- radioinduced, use in production of organometallics and paints, 23:35231
- radioinduced, use of radioisotopes for industrial-scale, 22:47297

POLYMERS
  - see also Acrylamide Polymers
  - see also Acrylic Acid Polymers
  - see also Acrylonitrile Polymers
  - see also Amide Polymers
  - see also Butadiene Polymers
  - see also Butene Polymers
  - see also Ethylene Polymers
  - see also Propene Polymers
  - see also Silicone Polymers
  - see also Styrene Polymers
  - see also Vinyl Alcohol Polymers
- analysis by isotopic techniques, review on, 23:45210
- analysis for oxygen by fast-neutron activation, 23:28752
- analysis for trace tin using neutron activation and beta microautoradiography, 23:29958
- analysis of high, review on methods for, 25:31784
- analysis of, for sodium by neutron activation methods, 21:12307
- bonding strength of wire insulating, to epoxy and polyurethane encapsulation, 24:30058 (BDX-613-135)
- book: Advances In Materials Science, 22:21715
- book: Chemistry and Technology of Synthetic High-Molecular-Weight Compounds. Carbon-Chain Polymers, in Russian, 22:18857
- book: Materials Science in Engineering, 23:29955
- book: New Materials in Engineering, 21:9050(T) (AD-643685)
- book: Nuclear Magnetic Resonance in Polymers, in Russian, 21:27987
- book: Polymer—Cement Concretes and Polymer—Concretes, 24:42297(T) (AEC-tr-7147)
- book: Radiation Chemical Processing, 25:10617
- book: Radiation Chemistry of Polymers, in Russian, 21:3133
- book: Radiation Modification of Polymers, in Russian, 23:43371
- book: The Properties and Testing of Plastic Materials, 23:10312
- carboxymethyl guar gum, effects on retention of calcium-45 and strontium-89 in bones of rats, 24:27515
- characterization of solid, by analysis, composition, and structure, 21:21860 (MAB-229-M)
- charged-particle track formation in, latent, 25:44607
- charged-particle track formation mechanism in, 25:44610
- charged-particle track registration in, criterion for, 21:42159 (USNRDL-TR-67-80)
- charged-particle track registration in, physical criteria for, 25:44611
- charged-particle tracks in, chemical damage mechanism along, 25:44609
- conference on, 25:2251
- conference on macromolecular chemistry, Prague, 1965, Part 7, 23:9390
- conference on macromolecular chemistry, Prague, Aug. 30 to Sept. 4, 1965, Pt. 1, 21:25865
- conference on macromolecular chemistry, Prague, Aug. 30 to Sept. 4, 1965, part II, 21:30433
- conference on physical basis of yield and fracture, Oxford, September 1966, 21:13182
- conference on polyblend, New York, June 6 to 7, 1969, 25:27271
- conference on, Brussels-Louvain, June 12 to 16, 1967, 23:47561
- conference on, Kingston, Ontario, Canada, Sept. 3 to 5, 1969, abstracts of papers at, 25:41842 (CONF-690977-(Absts.))
- conference on, Prague, Aug. 30 to Sept. 4, 1965, 22:4148
- content in organic coolants, effects on particle deposition on heated surfaces, 24:48219
- corrosion resistance and stability of Types Astrel 360, P13N, and Pyronne, for use as electric insulators in lithium—selenium batteries, 25:32637(R) (ANL-7745)
- critical currents in superconducting, (T), 21:13487
- deposition of radioinduced, on surfaces, 23:12447(P)
- deposition on polyethylene powder, 25:8282(P)
- development of synthetic, for high-temperature adhesives, 23:3166
- development, preparation, and testing of composite, with concrete, 23:16552 (BNL-50134)
- developments and uses of, conference on, 23:28898
- diffusion of hydrogen and deuterium in, (T), 21:14984
- diffusion of hydrogen through membranes of, effects of deuterium on, 21:23901
- effects in organic heat conducting fluids on pyrolysis product deposition at heating surfaces, 24:46420
- effects on compressive strength of concrete, mathematical model of, 23:22702 (BNL-13493)
- elastic moduli of crystalline regions of, effects of molecular conformation on, 25:26281
- electric conductivity and superconductivity in, review of, 25:49848
- electron spin resonance in, review on, 24:46269
- electron trapping in, 23:47465(R) (ORO-2968-49)
- fabrication of membranes of, for separation of fluids, 24:48161(P)
- fatigue of brittle, cyclic, 25:23432(R) (COO-1794-7)
- flow through polymerization equipment, use of tracer techniques to measure, 22:14708
- formation of, use of isotopic tracer to study reactions during, 22:71
- fracture mechanisms of glasslike high, 22:23712
- free radicals in, developments of, in Sweden, 22:14468
- friction of, adhesion theory of, 21:15879 (NRL-6466)
- friction properties of highly filled, in plastic-bonded explosives, 21:40758 (UCRL-70588)
- guar gum, effects on retention of calcium-45 and strontium-89 in bones of rats, 24:27515
- hypochromism of biological-type helical, theory on, 21:365 (FSU-2690-31)
- injection molding of, effect of die temperature and rate of cooling on, 21:28132(R) (UCRL-13287)
- inspection of glass-reinforced laminates of ester-type, radiographic method for, 25:34839
- ion energy deposition in, calculation of spatial distribution of, 24:44971 (EUR-4452, pp 615-30)
- markets for, analysis and review of, 25:32101 (ORO-673)
- Moessbauer spectra of polycrystalline, temperature effects on line asymmetries of quadrupole doublets in, (E), 22:11542
- molding medium density bodies of foamed, 24:53022 (BDX-613-209)
- molecular motions in solutions of, pulsed NMR spectral studies of, 25:37185 (DP-MS-71-25)
- molecular weight of, use of radioisotopes in determining, 22:4135
- morphology and structure of crystals of, review on, 23:28896
- neutron differential coherent and incoherent scattering cross sections for crystalline, calculations using amplitude-weighted directional frequency functions, (T), 23:7213
- neutron dose to, ASTM standard method for calculation of, 25:26535
- neutron inelastic scattering by, conference on, Tokai, Japan, 12/69, (E/T), 25:14436 (JAERI-1197)

neutron inelastic scattering on, analysis of low-frequency motions from, (E/T), 22:24472
neutron quasi-elastic scattering by dilute solutions of, (T), 21:19156
neutron scattering spectra of, compilation of, 21:10316 (PA-TR-3388)
particle track formation in solid organic, calculation of energy deposition distribution in heavy, 25:387
particle track formation in, review of latent, 24:27356
performance of amine containing, for adsorption of fission products, 24:18685 (BMI-1874)
physical properties of, conference papers on, 25:51357
positron annihilation in, structural studies from, 24:51409 (CONF-690916-(Vol.1), pp 172-7)
preparation and properties of, part I of conference on, 21:25865
preparation of thin films of, on metal film substrates, glow-discharge method for, 24:11576 (JAERI-5022, pp 169-74)
preparation of tritium- and/or deuterium-containing, as targets for neutron accelerators, 23:13764(P)
preparation of, containing arsinic acid groups for use as ion exchange resins, 23:17307(R) (ORO-2733-18)
preparation, properties, and structure of, 23:4605
production of irradiation-crosslinked tubes of, 22:37817(P)
production of neutron-absorbing, 21:38953(P)
production of, review of methods for, 25:32101 (ORO-673)
production, properties, and uses of optically-formed photosensitive, 24:20937 (SC-DR-70-59)
properties for use in nuclear industry, 25:43016
properties of Chitosan for use in chromatographic separation of trace amounts of elements from brine, magnesium and sodium salt solutions, and seawater, 24:22760
properties of poly(p-xylylenes) as coating for corrosion protection of lithium, 23:22467 (RFP-1260)
properties of, conference on, 22:40103
properties of, containing nitrogen—silicon bonds for use in aerospace technology, 21:6899(R) (N-66-32252)
properties of, use of positronium in evaluation of, 24:1276
proton polarization in, by solid effect, (E/T), 22:3601
proton reactions at 20 to 43 MeV with Moplefan, cross sections for electron capture in, (E), 24:44989
proton spin-lattice relaxation in structured solutions of, 23:14888
pyrolysis of, mass spectrometric analysis of products from, 22:14401(R) (UCRL-13332)
radiation chemistry of, 22:27832
radiation chemistry of, 23:47454 (AE-368)
radiation chemistry of, 21:12444(T) (NP-tr-1480)
radiation chemistry of high, 25:34637(R) (ORO-4059-1)
radiation chemistry of solid, 21:8380
radiation chemistry of solutions of, 21:8380
radiation curing of coatings of, viscoelastic properties of products from electron, 24:41380
radiation damage in, bibliography on, 21:7853 (AD-635088)
radiation effects in vacuum on tensile properties of films of, gamma, 22:36556 (N-68-16474)
radiation effects of thermal conductivity of, 21:35989(R) (N-67-18125)
radiation effects on, 21:26932
radiation effects on, 21:40106
radiation effects on, 22:40119
radiation effects on aqueous solutions of synthetic, afterglow x, 23:33624(T) (AD-843701)
radiation effects on cationic crosslinking agents in, ESR spectral studies on γ, 23:43357
radiation effects on chemical reactions in, LET effects on, 22:14515(R) (COO-1614-1)
radiation effects on chemical, physical, and mechanical properties of, review of, 22:10306
radiation effects on creep of H-film, 22:19682(R) (UCRL-13328)
radiation effects on crosslinking of, review on, 22:27786
radiation effects on discs composed of polycaprolactam, effects of, on development of tumors in subcutaneous tissues of rats, γ, 23:22233
radiation effects on durability of, 25:21002
radiation effects on electric conductivity of insulating, 22:42793
radiation effects on electric conductivity of, electron, 23:15917
radiation effects on electric conductivity of, x, 22:33401
radiation effects on electric properties of Kynar 400 used as insulating material in superconducting magnets, gamma, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
radiation effects on electric properties of pyrrone-type, γ, 24:31344
radiation effects on electrically insulating, 23:49866
radiation effects on films of, γ, 22:33374(T) (CEA-tr-X-635)
radiation effects on flexibility of molded Pyrrone, electron, 24:12496
radiation effects on gas evolution from, 23:13795
radiation effects on gel production in, 22:8140
radiation effects on high, reactivities of free radicals from, 22:4165
radiation effects on luminescence of solutions of synthetic, uv and x, 22:28294
radiation effects on mechanical properties of Kynar 400 used as insulating material in superconducting magnets, gamma and neutron, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
radiation effects on Montivel, γ, 21:14919 (ISS-66/34)
radiation effects on morphology and structure of crystals of, review on electron, 23:28896
radiation effects on organic, calorimetric method for determining x, 24:711
radiation effects on origin of biological, 22:25790
radiation effects on permanent set and hot extrusion, 22:14518(R) (ORO-2418-4)
radiation effects on phenoplast molding materials, 25:10634
radiation effects on physical properties of cable-insulating, 24:39726
radiation effects on production of cyclobutyl, in DNA of Paramecium aurelia, uv, 23:2795
radiation effects on properties for industrial uses, review on, 24:27139
radiation effects on properties of, 25:43016
radiation effects on properties of shaped articles of, impregnated with monomers, 21:10404(P)
radiation effects on solid, review on research on spatial distribution of free radicals produced by, 25:179
radiation effects on solid, survey of, 22:25412
radiation effects on static electricity on surfaces of, 22:6359(P)
radiation effects on structural, gamma, 21:6900
radiation effects on textile, 24:17403
radiation effects on thermoluminescence of organic, 23:43367
radiation effects on viscous, relatively low-molecular-weight, preparation of highly radiation-sensitive telomerized polyesters by, 25:51497(P)
radiation effects on voltage breakdown at -134 and 27°C of pyrrone, proton, 23:30199 (N-69-10066)
radiation effects on, 1.3 MeV gamma and 6.0 MeV electron, 25:2819 (LCIE-342)
radiation effects on, abstracts of papers concerning, 25:39525 (NP-18894)
radiation effects on, as model for biological macromolecules, 23:35174
radiation effects on, bibliography on, 25:32865 (JUL-Bibl.-15)
radiation effects on, conference on, Pittsburgh, Pa., March 29 and 30, 1966, 22:6341
radiation effects on, effects of temperature, uv radiation, and vacuum on, 24:247
radiation effects on, electron trapping in γ, 24:37003 (ORNL-4586, pp 118-25)
radiation effects on, ESR spectra of trapped electrons from, 24:13875 (ORNL-4400, pp 151-7)
radiation effects on, in accelerators, 24:27102 (CERN-70-5)
radiation effects on, in food, 22:40990
radiation effects on, in solution, 22:25415
radiation effects on, kinetics of radical accumulation from, 24:13960
radiation effects on, mechanical spectroscopic studies on, 21:14276
radiation effects on, mechanisms of, 24:27102 (CERN-70-5)
radiation effects on, of deoxyadenylic and deoxythymidylic residues, tritium β, 23:29298 (UCRL-50559)
radiation effects on, review of, 22:6342
radiation effects on, review of, 22:8848(T) (AEC-tr-6920)
radiation effects on, review of research on, 22:8089(T) (AEC-tr-6908)
radiation effects on, thermoluminescence studies on, 23:35173
radiation effects on, use of accelerators in studying, 25:2218 (CONF-700322-, pp 345-56)
radiation effects on, use of positronium in evaluation of, 24:1276
radiation heating of large blocks of, factors affecting γ, (E/T), 22:52304
radiation processing of fibrous materials containing, worldwide developments in, 23:15893
radiation processing of, industrial aspects of particle accelerators and radioisotope radiation sources for, 24:22907
radiation research on, progress in Japanese, 22:42702(T) (AEC-tr-6937)
radiation resistance of, 24:27102 (CERN-70-5)
radiation resistance of, for use as electric insulators, 22:25375 (ORNL-4229, pp 183-7)
radioinduced coloration of, 24:41322
radioinduced copolymerization of olefin monomers onto organic, effects of trivalent titanium salts on, 21:5965(P)
radioinduced cracking of, in-pile loops for, 21:35762
radioinduced creep of, relations with orientation and durability, 25:45156
radioinduced cross-linking of synthetic, ionizing, 21:24314
radioinduced crosslinkage of, in presence of acetylene, 21:1404(P)
radioinduced crosslinked, method for production of electron, 25:4100(P)
radioinduced crosslinking after extrusion into tubes, electron, 24:4305(P)
radioinduced crosslinking and degradation in organic solutions, 21:24025
radioinduced crosslinking and grafting of, review of, 21:5912
radioinduced crosslinking and scission of, theory of gel-dose curves for simultaneous, 21:30450
radioinduced crosslinking of graft, 21:10403(P)
radioinduced crosslinking of high-molecular-weight synthetic and natural, effects of acetylene on, 21:12486(P)
radioinduced crosslinking of ionic, 22:6348
radioinduced crosslinking of, effects of acetylene on, 22:21139(P)
radioinduced crosslinking of, effects of acetylene on, 23:11565(P)
radioinduced crosslinking of, production of coil coatings by, 24:13944
radioinduced crosslinking of, review on electron, 25:21018
radioinduced crosslinking of, use of large radiation sources in, 21:41150 (NP-16994)
radioinduced crosslinking with drugs, pharmaceutical dosage based on, 25:6360
radioinduced curing of coatings of, bibliography on, 25:13031 (AAEC/LIB/Bib-261)
radioinduced curing of coatings of, electron, 25:21022
radioinduced curing of coatings of, on solids, method for electron, 24:27903(P)
radioinduced curing of, survey on, 25:26283
radioinduced degradation of synthetic, ionizing, 21:24314
radioinduced dielectric breakdown in films of, electron, 23:22703 (N-68-36070)
radioinduced fixation in wood, 24:13936
radioinduced formation in hydrocarbons, mechanism of, 21:19661
radioinduced formation of, 22:18856
radioinduced formation of, 21:40913
radioinduced formation of, 22:36004
radioinduced formation of, 22:23055
radioinduced formation of thymine dimer, in phage DNA, transfer of, under conditions of repair, uv, 23:2788
radioinduced formation of, γ, 21:3086 (Y-1562)
radioinduced formation of, in lysozyme, 25:8604 (COO-690-41)
radioinduced formation of, in monomer-impregnated soft woods, 21:38979
radioinduced formation of, on cutting edges, 23:7670(P)
radioinduced formation of, requirements for industrial-scale, 22:8152
radioinduced formation of, review of, 21:23917
radioinduced formation of, review of research on, 22:8089(T) (AEC-tr-6908)
radioinduced free radical formation and trapping in, 22:14515(R) (COO-1614-1)
radioinduced graft polymerization of fibers of, design and operation of Kyoto University cobalt-60 gamma facility for studies of, 24:29423
radioinduced graft polymerization of, mechanical properties of products from, 25:32631 (AECL-3855)
radioinduced graft polymerization of, mechanisms of, 25:4105
radioinduced graft polymerization of, review on, 21:32191 (NP-16834)
radioinduced graft polymerization on inorganic substances, review on, 22:45095(R) (RLO-2043-2)
radioinduced grafting of monomers on, γ, 22:25418
radioinduced grafting of polyvinyl alcohol to hydrophilic substrates of, 23:45317(P)
radioinduced grafting of vinyl monomers to shaped articles of, gamma 21:126(P)
radioinduced grafting of vinyl or vinylidene radicals on ester- or phenyl-activated halogen-containing, 22:14554(P)
radioinduced grafting of, in textile production, review on problems in, 22:8091(T) (AEC-tr-6908, pp 18-24)
radioinduced grafting of, properties of products from γ, 23:28909
radioinduced improvement of quality of moldings of, 23:4653(P)
radioinduced in reactor radiolysis of dimethyldiphenylsilane and trimethylphenylsilane coolants at high temperatures, composition of, 24:48138
radioinduced luminescence in, effects of cysteine, propylgallate, and temperature on γ and x, 22:28302
radioinduced luminescence of, 22:14519(T) (CEA-tr-R-1907)
radioinduced polymerization of monomers on, production of coatings by, 24:13942
radioinduced polymerization of vinyl monomers with hydrophilic backbone, 24:46249(P)
radioinduced polymerization of, developments in, 22:51016
radioinduced preparation of, simultaneously from different monomer streams, apparatus for, 23:11563(P)
radioinduced production by reactions of formaldehyde with carboxylic anhydrides, 23:43343(P)
radioinduced production of, 24:7471
radioinduced production of chlorinated, 21:5967(P)
radioinduced production of crosslinked, electron or γ, 24:20837(P)
radioinduced production of free radicals in, ESR and ir spectral studies on, 24:11624
radioinduced production of solid, calculations of molecular weight distribution in, 23:45323
radioinduced production of tack-free coating of, on surfaces, 24:46251(P)
radioinduced production of thermoplastic, 24:27165(P)
radioinduced production of, cost analysis for, 25:32101 (ORO-673)
radioinduced production of, design of equipment for, 24:2354(P)
radioinduced production of, effects of alkyl arsines, phosphines, and stibines on, 25:41847(P)
radioinduced, of cytosine and thymine in DNA, uv, 23:50339
radioinduced, of thymine in DNA of skin cells, uv, 23:50341
radioinduced, review on, 21:38991
radiolysis of, ESR of radical pairs in γ, 21:19671
radiolysis of, ESR studies of γ, 22:47197
radiolysis of, LET effects in, 22:25415
radiolysis of, study of processes in pulse, 24:16615
radioprotective effects of N- and S-containing, on mice and rats, long-term x, 25:42517
reactions of uranyl and vanadyl ions with polypeptide-containing hydrophilic capsule wall material of, 25:41781(P)
reactions with bromine pentafluoride, 23:40614 (K-1753)
reflection efficiency of, for x rays, 21:5861
research on, in Japan, index of papers in Busseiron—Kenkyu (1943 to 1962) on, 21:12385 (UCRL-14288)
review of literature on carborane-containing, 21:15881 (SCL-DR-67-11)
sorptive properties of amine-containing, for fission product iodine in air-steam environments, 23:29142
spectra of nuclear irradiated, NMR, 22:48885
stability of insulating, used in lithium—selenium storage battery cells, 25:35275(R) (ANL-7777)

stability of, containing nitrogen—silicon bonds, to heat and radiation, 21:6899(R) (N-66-32252)
strength of, review of, 25:52967
stress corrosion of carbonate type, methods of inhibiting, 23:16553
strontium-90—yttrium-90 complexes with high molecular weight, in soil samples, 22:6795(R) (COO-414-6)
surface area and roughness measurements on, using carbon-14-labeled hexadecyltrimethyl ammonium bromide, 21:6162
synthesis of phosphorus-containing, 21:10985
testing and properties of, for solidification of radioactive wastes, 23:21922 (CNAEM-61)
thermal degradation and toxicity of, 25:39401 (Y-1734)
thermal expansion and transition in, radiometric studies of, 22:27562
use as radioprotective compounds, comparison with low molecular weight compounds, 21:26530
use in nuclear and space engineering, effects of experimental conditions on evaluation for, 24:247
use in sol-gel process for preparation of ceramic fuels, 24:14876(P)
use of Imidite 850, for beryllium joining, 22:13052
use of Lexan, for fission-track determination of uranium distribution in rocks, 21:24120
uses in fission-track etching to determine uranium distribution in alloys, 21:16559
viscoelastic properties of highly filled, in plastic-bonded explosives, 21:40758 (UCRL-70588)
yields from radiolysis of cyclopentanone, 21:24040
yields from reactions of recoil tritium with benzene, 23:37997
yields in γ radiolysis of furan, 23:245
yields of tritiated, from reactions of cyclohexene with tritium recoil atoms, 23:40754
Al—polymer—Al, electron tunneling in, low-energy, 24:11576 (JAERI-5022, pp 169-74)
concrete—polymer, mechanical properties of, produced by radioinduced polymerization, 24:31425
concretes—polymers, development, preparation, and testing of, produced by radioinduced polymerization, 24:39734 (PRNC-135, pp 152-5)
concretes—polymers, mechanical properties of, 24:31424
concretes—polymers, mechanical properties of, produced by irradiation or thermal catalytic methods, 24:16547 (BNL-14350)
concretes—polymers, physical properties of building blocks of radiation-polymerized, 25:4859
concretes—polymers, preparation and properties of, for use in highway construction, 25:16621
concretes—polymers, preparation and properties of radiation-polymerized, for use as structural material, 25:4838
concretes—polymers, production of radiation-cured pipes of, economic evaluation of, 25:16620 (RISO-M-1295)
concretes—polymers, properties for use in construction of highways and bridges, 25:24670(R) (BNL-15139)
concretes—polymers, radioinduced polymerization of, review of methods for, 24:19174
metal—polymer, radioinduced polymerization of composites of, γ, 25:4108
metals—polymers, radioinduced crosslinking of polymers in, electric properties of products from, 24:46284
polyacrylonitrile—poly(oxypropyl)triol, radioinduced crosslinking of, mechanism of γ, 21:15930
polychloroethylene—poly(oxypropyl)triol, radioinduced crosslinking of, mechanism of γ, 21:15930
polymers—wood, radiation processing of, worldwide developments in, 23:15893
polymers—wood, radioinduced polymerization of, 21:15940
polymers-wood, properties of, 24:22618 (CEA-CONF-1418)

Polymorphonuclear Leukocytes
see Leukocytes

POLYMYXIN B
radiation effects on aqueous solutions of, yields and mechanisms in γ, 23:47522

POLYNUCLEOTIDE KINASE
effects on β, γ, and uv radiosensitivity of bacteriophage T4 mutants, 25:49322

POLYOXYETHYLENE GLYCOL
radioinduced crosslinking of, gamma, 22:40109(P)

POLYOXYMETHYLENE
acetylation of, produced by radioinduced polymerization of trioxane, effects of acetic acid on, 24:31390
analysis for traces of chlorine by neutron activation methods, 21:27923
dielectric properties of, produced by γ-radioinduced polymerization, 24:46267
dimensional behavior of precision moldings of glass-filled Celcon, effects of processing on, 21:26929 (SC-DR-67-81)
heat transfer from surfaces of, improved liquid wetting angle effects on, 22:10495(P)
physical properties of acetylated, produced by radioinduced subsequent polymerization of trioxane, 24:31322
preparation by radioinduced polymerization of trioxane in presence of methylenesuccinic acid anhydride, 22:35845(P)
preparation of high-molecular-weight, by radioinduced polymerization of trioxane and acid amides, 21:128(P)
preparation of high-molecular-weight, from radioproduced formaldehyde, 23:40777(P)
production of thermally stable, 21:4579(P)
radiation effects on crystals of, in high-voltage electron microscope at 100 to 1000 keV, 24:38975
radiation effects on low-molecular-weight, to produce formaldehyde for subsequent polymerization, 23:40777(P)
radiation effects on stability of highly crystalline, 22:35855(P)
radiation effects on, at -196°C, ESR spectral studies on effects of dose and heat treatments on electron, 22:8130
radiation effects on, at -196°C, ESR studies of effects of dose and heat treatments on electron, 22:42715(T) (AEC-tr-6937, pp 133-44)
radiation effects on, electron, 24:13984
radiation effects on, ESR studies of, 25:34637(R) (ORO-4059-1)
radiation effects on, radical formation in, γ, 21:24002
radiation effects on, reduction of molecular weight and increase in thermal stability from, 25:54611(P)
radiation effects on, triplet spectrum following gamma, (E), 21:15221
radioinduced amorphous defects and chain scission in crystals of, x, 22:27751
radioinduced esterification of crystalline, with acetic anhydride, 25:21024(P)
radioinduced formation of fibrous, from trioxane, 23:11579
radioinduced graft polymerization of Celcon or Delrin filaments onto styrene, effects of N,N-dimethylformamide or methanol on rate of gamma, 21:19691
radioinduced graft polymerization of Celcon or Delrin filaments onto styrene, effects of N,N-dimethylformamide or methanol on rate of γ, 22:8094(T) (AEC-tr-6908, pp 42-7)
radioinduced graft polymerization of Celcon or Delrin filaments onto styrene, effects of N,N-dimethylformamide or methanol on rate of gamma, 21:19691
radioinduced graft polymerization of Delrin filaments onto styrene, effects of acids, alkali, and heat on products of γ, 22:8095(T) (AEC-tr-6908, pp 48-55)
radioinduced graft polymerization of Delrin filaments onto styrene, effects of acids, alkali, and heat on products of gamma, 21:19692
radioinduced graft polymerization of Delrin filaments onto styrene, effects of acids, alkali, and heat on products of gamma, 21:19692
radioinduced graft polymerization of filaments of, onto styrene, effects of acids, alkali, and heat on products of γ, 22:8095(T) (AEC-tr-6908, pp 48-55)
radioinduced graft polymerization with acrylonitrile, butadiene, or styrene, diffusion of gases in products from γ, 25:149
radioinduced grafting of copolymers of, with alkylene oxides or cyclic formal or vinyl monomers to vinyl compounds, 22:51037(P)
radioinduced polymerization of filaments of, on styrene, effects of N,N-dimethylformamide or methanol on rate of γ, 22:8094(T) (AEC-tr-6908, pp 42-7)
radioinduced polymerization of filaments of, on styrene, effects of N,N-dimethylformamide or methanol on rate of γ, 22:8094(T) (AEC-tr-6908, pp 42-7)
radioinduced polymerization of tetraoxymethylene single crystal, properties of polymer crystal from γ, 25:51496
radioinduced polymerization of, to high molecular weight, 21:25926(P)
radioinduced polymerization of, with isocyanates, 21:4579(P)
radioinduced preparation from trioxane, role of heating in, 24:46252(P)
radioinduced preparation of high-molecular-weight, from compacted trioxane, 25:21025(P)
radioinduced production from trioxane, 23:4703(P)
radioinduced production in trioxane crystals, α, 25:2252
radioinduced production of, 25:31965
radioinduced production of heat-resistant, x and γ, 23:33222(P)
radioinduced reactions in, electron, 21:38978
radiolysis at low temperatures, ESR spectral studies on free radicals formed by, 22:8134
radiolysis at low temperatures, ESR studies on free radicals from, 22:42720(T) (AEC-tr-6937, pp 184-91)
radiolysis of polyoxydecamethylene at low temperatures, ESR spectral studies on free radicals formed by, 22:8134
radiolysis of polyoxydecamethylene at low temperatures, ESR studies of free radicals from, 22:42720(T) (AEC-tr-6937, pp 184-91)
radiolysis of, effects of temperature on yields from electron, 23:26266(R) (COO-1088-33)
radiolysis of, ESR of radical pairs in γ, 21:19671
use as binder for preparation of fuel powders by compaction, 23:35984(P)
use in detection of alpha particles, 21:12674
polyalkenes—polyoxymethylenes, radiation effects on production of foamed polyolefine by, 21:17692(P)

POLYOXYPHENYLENE, 2,6-DIMETHYL-
photolysis of liquid and solid, ESR spectral studies on uv, 24:41351
radiolysis of liquid and solid, ESR spectral studies on γ, 24:41351

Polypeptides
see Peptides

POLYPHENYL SYSTEMS
analysis for chlorine by potentiometric titration, 24:22590
analysis of hydrogenated, used for reactor cooling, 25:41713 (AECL-3672)
analysis of reactor coolants of, 22:12224 (NP-17239)
deoxygenation of irradiated OM-2, OM-D, and HB-40, MINOX process for catalytic, 25:23547 (EUR-4621)
development and performance for reactor coolants, conference, 21:21803 (STI/DOC-10/70)
economics of use in HWOCR, 21:23610 (ORNL-3921)
electric conductivity of OMD, effects of impurities on, 25:20990 (EUR-4597)
film formation processes in reactor coolants, 21:42724(R) (AI-CE-56)
heat transfer properties of OM2, (E), 22:14295 (RISO-162)
lubricating properties of Santowax R under reactor operating conditions, 21:17461 (NAA-SR-Memo-6759)
neutron diffusion and rethermalization in Santowax-R, thermal, (E), 22:29874
neutron diffusion parameters in Santowax-R, thermal, (E), 25:38848
neutron rethermalization in hot liquid Santowax-R, use of plutonium-239 and uranium-235 fission chambers for measuring, 21:19961
neutron slowing down time in santowax, fast, (E), 24:13265
neutron total scattering cross sections for liquid Santowax-R, (T), 21:21384
oxidation of OMP, in Piqua Power Reactor, 22:46856 (AI-AEC-12696)
performance of Santowax OM, WR, and OMP, as coolants in heavy water-moderated organic-cooled 1000 MW(e) power reactor, 22:50741 (WASH-1083)
physical properties of Santowax OMP organic coolant, 21:38432(R) (AI-CE-4)
properties and chemistry of Santowax as reactor coolant, 21:42724(R) (AI-CE-56)
properties and thermal conductivity of Santowax-OMP and -OM2, 21:21724
properties of hydrogenated, used for reactor cooling, 25:41713 (AECL-3672)
radiation dose-rate measurement method for Santowax OMP, 21:21714
radiation effects at 300 and 427°C on Santowax WR, reactor, (E), 21:10373 (MIT-334-70)
radiation effects on chemical and physical properties of Santowax OMP, 21:21714
radiation effects on chemical properties of, analysis at 300 to 427°C of γ and fast neutron, 23:4208
radiation effects on physical properties of Santowax WR, measurement at 300 to 427°C of fast neutron and γ, (E/T), 22:42388 (MIT-334-94)
radiation effects on, differential cryoscopic measurements on polymeric residues in, 23:2318
radiation effects on, low-temperature steady-state fast neutron, 21:38432(R) (AI-CE-4)
radiation testing of reactor coolant behavior, Coolant Technology Loop for in-pile, 21:42724(R) (AI-CE-56)
radiolysis kinetics in low-temperature steady-state conditions of, 21:38432(R) (AI-CE-4)
radiolysis of Santowax WR, neutron, 22:4172
radiopyrolysis rate constants for, high-temperature steady-state, 21:38432(R) (AI-CE-4)
reactions of normal and hydrogenated, with Attapulgus clay, 23:47422 (EUR-2646(Pt.3))
thermal decomposition of OMP, in Piqua Power Reactor, 22:46856 (AI-AEC-12696)

POLYPHENYLS
see also Biphenyl
see also Quaterphenyl
see also Terphenyl
analysis for aluminum, calcium, chromium, iron, magnesium, manganese, and nickel, 21:21712
analysis for impurities and corrosion products in, activation, 21:21713
analysis for impurities, evaluation of procedures for, 21:35841(R) (EUR-3466.d)
analysis of decomposition products of reactor coolants of, by gas chromatography, review on, 22:37667
analysis of mixtures of, by mass spectrometry, 23:13621 (EUR-4194)
analysis of terphenyl substitutes of, review of methods for, 21:27891 (EUR-3292.i)
boiling of subcooled, effects of dissolved gases on, 21:43166
coke deposition in Piqua Power Reactor from, analysis of, 22:10006(R) (NAA-SR-12561)
combustion of, effects on nuclear accidents, 21:14120
corrosive effects on reactor materials, review of, 25:55394
corrosive effects on structural materials, review, 22:21651
decontamination of, bacteriological processes in, 25:2327
determination of, evaluation of procedures for, 21:35841(R) (EUR-3466.d)
fabrication and testing of deuterated and tritiated targets of, for neutron production, 23:37036 (EUR-4276)
heat transfer by, effects of composition and subcooling on, 21:14108 (EUR-3120.e)
heat transfer in, correlation of non-boiling, 22:52303 (CONF-660553-10)
heat transfer to, variations in PRO Reactor, 21:21720
melting points of reactor coolants of, effects of decomposition products on, 21:38923 (AI-CE-58)
neutron diffusion lengths in Dowtherm-A, at 20 to 220°C, (E/T), 23:37093
neutron scattering in reactor moderators of, calculations of thermal, 22:30380
neutron scattering in, Nelkin—Ardente model for thermal, 23:26108 (EUR-3940-1, pp 3-25)
neutron scattering in, sensitivity of model parameters for, (T), 23:42836
neutron scattering model for, (T), 22:32437
performance of tritiated targets of, for production of 14-MeV neutrons, 24:30629
physical properties of, for use as terphenyl substitutes, 21:27891 (EUR-3292.i)
preparation of targets of deuterated, for production of neutrons in (d,n) reactions, 23:21217
preparation of tritiated accelerator targets of, for 14-MeV neutron production, 21:35360 (EUR-3474.f)
preparation of tritiated, for use as accelerator targets in production of 14-MeV neutrons, 24:25068(T) (SC-T-70-4014)
properties for HWOCR coolant of, radiation and thermal, 21:23587(R) (AI-CE-31)
purification system for PRO Reactor, 21:21708
pyrolysis of, characterization of high-boiling products from, 21:21967 (IDO-16909)
pyrolysis of, mass spectrometric analysis of volatile products from, 22:21052 (CONF-660553-6)
radiation chemistry of, spectra of postulated products from, 23:19745 (EUR-4215)
radiation damage in, control of, 21:39711(P)
radiation effects on luminescence of, effects of structure on γ, 21:36035

radiation effects on stability of partially hydrogenated, 22:42770
radiolysis of tritiated, self-, 24:25068(T) (SC-T-70-4014)
radiolysis of, characterization of high-boiling products from, 21:21967 (IDO-16909)
radiolysis of, products of, 23:13776
radiolysis of, yields of radicals and hydrogen from 1.6-Mev electron, 21:112
scintillation efficiency of, 23:2601
scintillation properties of, 21:34311(R) (NYO-1396-103)
solvent properties of, for zinc halides in presence of lithium nitrate—potassium nitrate eutectic, effects of potassium halides on, 21:5834 (IA-1082, pp 77-202)
structure and thermodynamics of, gas-liquid chromatography studies on, 21:17609(R) (TID-23757)
thermal capacity of, 21:38923 (AI-CE-58)
toxicity to lungs of mice following inhalation of aerosols of reactor coolant, 23:47935
vapor pressure at high temperatures, apparatus and method for determination of, 23:33046 (AECL-3183)
benzene—polyphenyls, thermodynamics at infinite dilution, gas-liquid chromatography studies on, 21:17609(R) (TID-23757)
biphenyl—polyphenyl, viscosity in mixtures with high-boiling residues, 21:21933

POLYPHOSPHATES
effect of, on retention of strontium-85 in mice and rats, 21:10765
effects on color stability of electron- and γ-radiation processed beef, 25:27162
radiation effects on tripolyphosphate hexahydrate, effects of radical scavengers on yields from reactor, 25:57495
radiation effects on, reactions of recoil phosphorus-32 from neutron, 24:18998

Polyphosphoantimonic Acids
see Heteropoly Acids

POLYPHOSPHORIC ACID
complexes with uranyl ions, spectral studies on energy transfer between luminescent centers in, 25:46489
luminescence of rare earth and uranyl ions in, 23:45250

POLYRIBONUCLEOTIDE NUCLEOTIDYLTRANSFERASE
effects on x-radioinduced degradation of RNA in Escherichia coli, 23:50368
radiation effects on activity of, in Escherichia coli, γ and uv, 25:44982

POLYSACCHARIDES
see also Amyloses
see also Cellulose
see also Chitin
see also Glucans
see also Glycogen
see also Heparin Sodium
see also Inulin
see also Lipopolysaccharides
see also Pectins
see also Starches
activity of γ-irradiated lysozyme against, 22:43230
binding to calcium ions in cartilage and bone of cattle, 25:37711 (ANL-7770, pp 149-56)
characterization of cell wall, in rough-uv mutants of Salmonella typhimurium, 22:51508
content of lungs of rabbits, effects of plutonium on, 23:4869
content of yeasts, effects of, on radiosensitivity, 22:52019
distribution in embryos of Vanda sp, 22:40953(R) (UH-235-P-6-5)
effects of bacterial, on recovery of hematopoiesis in γ-irradiated mice, 25:44940
effects of muco-, on permeability of bones to radioisotopes, 25:32342
effects of, from Proteus and Salmonella typhosa on survival of γ-irradiated mice, 21:4828
effects on retention of iodine-131-labeled fibrinogen in tumors of mice, 23:45637
effects on virulence of Staphylococcus aureus in mice, 21:22714
hyaluronic acid derivative content in muco-, of myxofibrosarcomas, 22:28284 (ORNL-4100, pp 127-34)
isolation of heparin-related, sulfur-35-labeled, from embryonic cells of mice and rats, HeLa cells, and L cells, 25:13357
isolation of muco-, from bone and cartilage of calves, 22:28537 (ANL-7278, pp 170-84)
isolation of toxic, from lethally irradiated mice, 24:51052
localization in dentine layers of teeth of rats in comparison to localization of cerium-144, 25:37726
metabolism of muco-, in rat epiphyseal cartilage, effects of papain on, 21:22311
muco-, content in brain of, dogs, 23:50879
muco-, radiation effects on distribution of, in brain of guinea pigs, β, 23:50362
muco-, radiation effects on metabolism of, in sclerotic human skin, electron, 23:41268
muco-, radioactivity of sulfated, use of Alcian Blue in measurement of, 23:11435
muco-, radiosensitivity in connective tissue, x, 23:35649
protective effects of, against hemolysis of erythrocytes induced by radiotoxins in vitro, 23:10027
radiation effects on activity of, in tissues of inner ear of guinea pigs following skull exposure, x, 24:27706
radiation effects on chemical properties of, in kidneys of man, 21:24515
radiation effects on composition of, in bone and cartilage of dogs, radium-226 α and γ, 24:11964
radiation effects on content of acid muco-, in rabbit ears, 22:51335
radiation effects on content of galactosamine, in dog cartilage, radium-226 α and γ, 23:12005 (UCD-472-115, pp 48-9)
radiation effects on content of muco-, in brain cells of guinea pigs, cobalt-60 γ, 23:26694
radiation effects on content of muco-, in intestinal submucosa following therapy of cervical carcinoma, γ, 22:2536
radiation effects on content of, in brain of dogs, acute γ, 23:6368
radiation effects on content of, in cartilage of dogs, radium-226 α and γ and strontium-90 β, 24:29858 (UCD-472-116, pp 45-9)
radiation effects on content of, in cells of rat intestine, x, 23:6342 (BNWL-714, pp 7.1-26)
radiation effects on content of, in dog cartilage, radium-226 α and γ and strontium-90 β, 23:12004 (UCD-472-115, pp 45-7)
radiation effects on content of, in kidneys of man, 21:24515
radiation effects on content of, in organs of chicken embryos, γ, 24:51037
radiation effects on content of, in rat thyroid, polonium-210 α, 23:22370(T) (AEC-tr-6944, pp 309-15)
radiation effects on content of, of human skin, effects of age on solar uv, 22:49241
radiation effects on distribution of, in carrot cell walls in relation to tissue softening, γ, 24:46577
radiation effects on distribution of, in shoot apex of mulberry trees, effects of dose on γ, 23:12013
radiation effects on distribution of, in shoot apex of mulberry following exposure of resting or sprouting buds, cobalt-60 γ, 23:38454(T) (NSJ-tr-145)
radiation effects on immune reactions to pneumococcal, in mice, x, 23:50381
radiation effects on localization of acid muco-, in absorptive cells of rat intestines, acute x, 22:49273
radiation effects on metabolism of, in lungs of rabbits following inhalation of plutonium-239, α and γ, 24:51051
radiation effects on metabolism of, in rabbit corneas, x, 25:47010
radiation effects on sorption of, on lung epithelium in mice, x, 24:21080
radiation effects on uptake of sulfur-35-labeled sodium sulfate by muco-, 21:6429
radiation effects on uptake of sulfur-35-labeled sodium sulfate by muco-, in regenerating limbs of Axolotyl, x, 21:6429
radiation effects on wheat flour, turbidimetric and colorimetric determination of γ, 25:46523
radiation effects on, from yeasts, effects of, on soil aggregates, 22:40543
radiation effects on, in guinea pig kidney tissues, x, 21:14725
radiation effects on, review of, 22:49224
radioinduced degradation of, in fresh fruits and vegetables, effects of dose rate on γ, 24:48786
radioinduced free radicals in, charged particle, 22:28368
radioinduced structural modification of macromolecules of, ionizing, 21:24314
radioprotective effects of, 25:18922
radioprotective effects of bacterial, on survival of mice, 25:21742
radioprotective effects of capsular, against uv damage in Escherichia coli, 25:21978
radioprotective effects of Pseudomonas, on testes of mice, fission neutron and x, 23:31818 (AD-677924)
radioprotective effects of, from Eberthella typhosa on animals, combined effects of bone marrow on γ, 23:8031
radioprotective effects of, in mice, 23:10020
radioprotective effects of, on Ehrlich ascites tumors in mice, 21:26535
reactions with cetylpyridinium chloride or Methylene Blue, pulse radiolytic and spectral studies of, 23:35238
separation from bone, use of hyalurinidase for in vitro, 22:49204
sorptive properties of porphyran, for ruthenium, 22:12456 (PG-Report-819)
structure of slime, from Aerobacter aerogenes, 21:1287
use as radioprotective agents, measurement of efficiency of, using radiomimetic model, 21:22635
use of, as carbonaceous matrix and bonding material in fabrication of refractory articles, 21:13252(P)

POLYSELENOMETHYLENE
crystal structure of, 21:28005

POLYSORBATE 80
radioprotective effects of, on DNA strand breaks in Escherichia coli, cobalt-60 γ, 25:19027
radioprotective effects of, on Escherichia coli, γ, 22:33987

Polystyrene
see Styrene Polymers

Polythene
see Ethylene Polymers

POLYTHIOMETHYLENE
radioinduced production of, by polymerization of trithiane, 21:28004
radioinduced production of, γ, 21:3123

Polytron Device
see Thermonuclear Reactors

Polyvinyl Alcohol (PVA)
see Vinyl Alcohol Polymers

Poly(vinyl chloride) (PVC)
see Ethylene, Chloro-, Polymers

Polywater
see Water

Pomopis
see under Osteichthyes

Ponds
see Surface Waters

Pongamol
see 1,3-Propanedione, 1-(4-Methoxy-5-Benzofuranyl)-3-Phenyl-

POODLE (USAEC-USAF)
see Nuclear Auxiliary Power Systems

Pool Critical Assembly (PCA)
see Bulk Shielding Facility

Pool Test Reactor (PTR)
see Reactors, Swimming-Pool

POORMAN PROSPECT (ARIZ.)
description of power reactor, 22:3864
development and economics of nuclear, 22:8255 (ORNL-4170, pp 158-9)

Poplar Burst
see Hardtack Operation—Phase I

Poplar Trees (Populus)
see Populus under Angiospermidae

POPOP
see Oxazole, 2,2'-p-Phenylenebis[5-phenyl-

POPR
see Prototype Organic Power Reactor

POPSY
see Critical Assemblies

POPULATIONS
see also Epidemiology
see also Genetics
see also Public Health
see also Statistics
analysis of bioform equilibrium in, of flour beetles, 21:34650(R) (BNWL-322)
book: Biology of Populations, 25:11005
book: Genetic Effects of Radiation on Mammalian Populations, 23:29457
book: Radiation and the Evolution of Populations, 22:40655
carbon-14 labeling of tick, field trials of, 23:29306
casualties in human, following thermonuclear attack, postattack planning for medical treatment of, 24:7910
casualties in human, from nuclear weapons, estimation of effects of sheltering on, 24:12100 (FMB-69-11)
casualty estimation of urban, from multiple nuclear explosions, 22:35968
cesium-137 body burdens in, of Finnish Lapland, contribution of food chain to, 21:36571 (CONF-670503-18)
cesium-137 body burdens in, of Norway during 1963 to 1966, 21:10729 (TID-23484)
cesium-137 content in food chain of Eskimos, 21:28338(R) (BNWL-353(Rev.))
cesium-137 content of adult human, in California during 1960 to 1969, fallout, 25:16187
cesium-137 content of diet of, in Poland during 1965 to 1966, 24:29742
cesium-137 content of human, in Florida in relation to geography, 23:35710
cesium-137 content of human, in Switzerland during 1964, 22:21500
cesium-137 content of male, in Norway during 1964 to 1966, comparison of, to aviation personnel, 22:45532
cesium-137 monitoring of human, in Budapest during 1964 to 1967, calculation of annual β-dose from fallout, 23:41308
cesium-137 uptake in rural and urban, of USSR during 1963 to 1964, effects of diet on, 21:32647 (NP-16518)
characteristics of human, in Interoceanic Canal areas of Panama, 21:39365 (BMI-171-006)
characterization of postattack, factors affecting, 21:11006 (RM-5115-TAB)
civil defense information of U. S., survey on, 21:22476 (AD-638969)
classification of diet of human European, by age groups for food-chain studies of radioactive contamination, 23:2803 (CEA-R-3434)
conference on mutations in, 21:16334
demography of human, anticipation of effects of nuclear warfare on, 23:50598 (CONF-671135-, pp 313-26)
demography of human, inhabiting eastern region of Republic of Panama, 23:9272 (BMI-171-013)
demography of natural, genetic effects of, 25:8164(R) (RLO-2225-T-5-1)
density of cell, effects on phosphorus-32 metabolism by Scenedesmus quadricauda, 23:22169(T) (AEC-tr-6944, pp 157-64)
density of world, computer programs for analyzing and organizing statistical data on, 23:15761 (SC-CR-68-3796)
density of, in vicinity of water-cooled reactors, AEC recommendations for, 21:14643
destruction of US, by nuclear weapons, assessment of requirements for total, 25:13132 (AD-711021)
distribution of human, in world and between 35°N and 35°S latitudes, 23:49680 (SC-RR-69-368)
distribution of, following nuclear explosion, computerized models for, 21:20169 (HI-693-RR)
ecology of human, in northwestern Colombia, 23:50406
ecology of human, of Azuero Peninsula in Panama, 23:12038 (BMI-171-012)
economic resources of urban, effects of nuclear explosions on, 21:39390 (AD-631026)
education of American, concerning fallout, responsibility for, 22:51604
effects on Ispra Joint Nuclear Research Center site characteristics, 21:30541 (EUR-3463.i)
effects on selection of x-radioinduced autosomal recessive lethal mutations in Drosophila melanogaster, heterozygote, 23:33670
epidemiology of human, exposed to radium-226 in drinking water, 21:8890
evaluation of attitudes of USA, to civil defense programs, 21:41388 (AD-649543)
exposure of midwest USA, to radium in drinking water, 22:2208
fallout hazards to, responsibilities of physicians in relation to, 22:51606
fallout shelters for, economic aspects of private and public, 21:36560 (AD-651167)
fission products dose to offsite, from nuclear reactor tests during 1965, measurement of thyroid and whole-body, 22:23519
genetic drift in human, in Central African Republic and Italy, 22:38193(R) (EUR-3912)
genetics of, 24:34257
genetics of human, insect, microorganism, and vertebrate, 24:39450(R) (AECL-3451)
growth of urban, 25:41708 (ORNL-HUD-3)

hazards from nuclear explosions, standards of behavior for, 23:31805 (FMB-67-4-B)
hazards to human, from radium use in consumer products, 23:26768 (MORP-68-5)
hazards to human, relation of methods used for disposal of radioactive wastes to, 25:21679
hazards to sheltered, during nuclear warfare, 21:6494(R) (ORNL-TM-1531(Pt.1))
incidence of chromosome aberrations in circulating lymphocytes in human, exposed to atomic bombing at Hiroshima, relation of, to absorbed radiation dose, 23:50517
incidence of human leukemia in, in vicinity of Hiroshima and Nagasaki during 1955 to 1967, 23:43844
incidence of leukemia in human, of Hiroshima and Nagasaki, Japan, 23:16334
incidence of neoplasms of mammary glands in, exposed to atomic bombing at Hiroshima and Nagasaki, 23:38744
infectious diseases in, following nuclear explosions, control of, 23:50584 (CONF-671135-, pp 93-8)
iodine content in Marshallese, exposed to fallout, serum-bound, 21:4759
iron-55 body burdens in, of Finnish Lapland, contribution of food chain to, 21:36571 (CONF-670503-18)
iron-55 content in blood of Alaskan Eskimo, 21:18018
iron-55 content in diets of Eskimo and Japanese, 21:39413
iron-55 content in worldwide, during 1966, effects of age, diet, and sex on, 23:11444 (BNWL-481-2, pp 1-126)
iron-55 content of blood in human, of Finland in relation to radiation dose, 23:6443 (NYO-3446-11, pp 1-15)
iron-55 content of Lapp, in northern Finland, 24:25434
lead-210 uptake by, from atmosphere and diet in United States in 1966, role of ingestion in, 24:29726
leukemia incidence in human, exposed to atomic bombing of Hiroshima, 24:6097
leukemia incidence in human, exposed to atomic bombing at Hiroshima in relation to age at exposure and sex, 23:50805
leukemia incidence in human, following exposure to atomic bombing of Nagasaki, 24:32140
leukemia incidence in, effects of age on, 21:41490
leukemia occurrence among atomic bomb survivors in, of Hiroshima and Nagasaki, factors affecting, 21:28581
leukemia occurrence in Japanese, effects of exposure to atomic bombing on, 21:26582
medical burden of skin burns in, at Nagasaki, 21:8842(R) (AD-630292)
medical survey of Marshall Island, 13, 14, and 15 years following exposure to fallout, 24:50798 (BNL-50220)
mortality of human, following nuclear attack, effects of variations in population-aggregation on estimates of, 21:16430 (RM-5141-TAB)
nuclear war effects on, 21:20170 (HSR-RR-66/14-Pr)
nuclear war effects on U. S, 21:20171 (HSR-RR-66/14-Pr(App.1))
Ohio Amish directory, 21:23795 (NYO-3697-17)
plant, in terrestrial ecosystems in Colombia and Panama, transport of stable elements through, 23:45685
polonium-210 body burdens in, of Finnish Lapland, contribution of food chain to, 21:36571 (CONF-670503-18)
polymorphisms in, genetic factors affecting, 21:14138 (UCRL-16898, pp 128-9)
potassium-40 content of human, in Switzerland during 1964, 22:21500
protection against blast and fallout, economics of active and passive defense systems for, 22:16791 (ORNL-TM-2041)
protection against nuclear explosions, evaluation of underground transportation facilities as shelters for, 25:4255(R) (ORNL-TM-3016)
protection of human, against fire from nuclear explosions, analysis of, 21:36551(R) (AD-635492)
protection of human, against nuclear attack, cost factors for shelters for, 24:23228 (ORNL-TM-2457)
protection of human, from effects of underground nuclear explosions, USAEC comprehensive safety programs for, 25:44468 (TID-25708)
protection of human, from environmental carcinogens, 23:50559
radiation action levels for, in vicinity of nuclear installations in Israel, 25:41833(R) (IA-1218)
radiation burden in, Federal Republic of Germany, 1966, 21:22469
radiation burden to, from environment in Germany, effects of nuclear test explosions on, 24:23134(R) (NP-18122)
radiation damage to human, genetic effects, 21:20120 (RM-5096-TAB)
radiation dose equivalents for human, from radioisotopes produced by nuclear excavation, safety feasibility study of, 23:33718
radiation dose estimates for human, from fallout in environment during 1969, 25:42691
radiation dose from medical radiography to human, in Finland, genetic x, 23:14189
radiation dose from re-enetry of rocket reactors to, effect of destruct mechanism on, (E/T), 22:30280 (NUS-277)
radiation dose in vicinity of Windscale, effects of algal food in diet on, 21:22463
radiation dose of, in vicinity of Hanford Area, 1965, 21:8790 (BNWL-316)
radiation dose rates to, exposed to tritium, 23:9681 (ORNL-4316, pp 1-69)
radiation dose received by, of Great Britain, effects of fallout and natural background radiation on, 21:8820
radiation dose to human, discussion of health hazards of diagnostic and industrial, 24:32028
radiation dose to human, effect of source on, 22:4666
radiation dose to human, establishment of limits for maximum permissible, 25:19018
radiation dose to human, estimates of present and future, 25:44810
radiation dose to human, following nuclear attack, method for incorporation of thermoluminescent dosimeters into buildings for measuring, 24:2505
radiation dose to human, following reactor accident, calculation of, for use in technical safety evaluation of planned reactor site, 23:35730(T) (ORNL-tr-2157)
radiation dose to human, following release of radioisotopes to atmosphere during reactor accidents, computer methods for calculation of, 25:42393 (BNWL-B-69)
radiation dose to human, from artificial and natural sources, 25:19137
radiation dose to human, from consumer products containing radioisotopes, analysis of procedures for control of external and cumulative, 25:19015
radiation dose to human, from consumer products containing radioisotopes, standards for regulation of, 24:46618
radiation dose to human, from dental and medical radiography, survey of, 24:50930
radiation dose to human, from dental and medical uses in United States, x, 22:28613
radiation dose to human, from diagnosis, statistical studies of x, 24:41878 (BRH/DBE-70-1, pp 23-34)
radiation dose to human, from diagnostic radiography, 25:42711
radiation dose to human, from fallout through 1962, 22:43345
radiation dose to human, from medical diagnosis, 24:9963
radiation dose to human, from nuclear attack, 21:20233 (NP-16462)
radiation dose to human, from nuclear excavation, model for estimating, 23:29510
radiation dose to human, from nuclear explosions, estimation of, 23:2827
radiation dose to human, from nuclear power plants, 25:26741
radiation dose to human, from Project Rulison releases, estimation of potential, 24:48544 (SWRHL-96)
radiation dose to human, from radioactive cloud, effects of dispersion kinetics and meteorological factors on calculation of iodine-131 β and γ, 23:35730(T) (ORNL-tr-2157)
radiation dose to human, from stack effluent at EUROCHEMIC in Belgium, calculation of, 24:7821
radiation dose to human, from television, annual x, 25:42366
radiation dose to human, from testing of NRX-A5 reactor, 23:9942 (SWRHL-32-r)
radiation dose to human, from uranium mill tailings in Colorado and Utah, 23:38561
radiation dose to human, ICRP standards for maximum, 24:710
radiation dose to human, ICRP standards for recommendations for maximum, 22:28471
radiation dose to human, in Brazil from high-level natural background radiation, methods for estimation of, 23:7972 (NYO-2577-10)
radiation dose to human, in environs of nuclear fuel reprocessing plant, β and γ, 24:39455 (BRH/NERHL-70-1)
radiation dose to human, in environs of nuclear installations, criteria for development of program for control, 24:7849
radiation dose to human, in environs of reactors, guide to maximum permissible, 23:29544 (THAI-AEC-1(Rev.1))
radiation dose to human, in environs of U. S. harbors docking nuclear-powered ships during 1968, use of film badges to monitor, 24:2668
radiation dose to human, in relation to tritium release from nuclear power plants, maximum permissible β, 24:48540 (CONF-700810-6)
radiation dose to human, in Sweden, regulations for maximum permissible, 24:41903
radiation dose to human, in United Kingdom as recommended by ICRP, maximum permissible, 23:24605 (AHSB(RP)R-78(3rd Ed.))
radiation dose to human, in vicinity of Nevada Test Site during July through December 1968, 25:46826(R) (SWRHL-83-r)
radiation dose to human, in vicinity of Richland, Wash., during 1964 and 1968, 25:6661 (BNWL-SA-3203)
radiation dose to human, IRC recommendations for maximum permissible, 25:2574
radiation dose to human, of Britain from color television receivers, mutagenic x, 25:13452
radiation dose to human, of Colombia during excavation of interoceanic canal, calculation of fallout, 23:31792
radiation dose to human, of Colorado, Michigan, and Minnesota, 23:29518
radiation dose to human, of high natural background areas in Brazil, 24:31962 (NYO-2577-11)
radiation dose to human, of Lapland in relation to lead-210 and polonium-210 content of food chain, 23:31772
radiation dose to human, of Novgorod region, 24:41886
radiation dose to human, of USA during 1962, effects of nuclear weapons testing on, 22:10775
radiation dose to human, on Kerala coast, India, from food, daily, 25:19143
radiation dose to human, on Marshall Islands accidentally exposed to fallout from nuclear explosions in 1954, 22:14906 (BNL-50057, pp 123-37)
radiation dose to human, resulting from disposal of radioactive waste in sea waters, methods for calculation of, 24:21095 (CEA-CONF-1465)
radiation dose to human, resulting from disposal of low-level radioactive waste in seawaters, method for calculation of, 24:21093 (CEA-CONF-1341)
radiation dose to human, sources of, 25:42693
radiation dose to human, sources of, 25:42692
radiation dose to human, use of pocket ion chamber dosimeters for measuring, 23:12103
radiation dose to industrial, in Hungary from medical radiography, 21:28484
radiation dose to thyroid and whole body of, during nuclear rocket experiments, 21:6539
radiation dose to thyroid glands of human, evaluation of nuclear power reactor sites in relation to potential accidental iodine-131, 25:44147
radiation dose to world-wide human, during 1970, 25:52067 (A/CONF.49/P-851)
radiation dose to, during nuclear accidents, 24:7836 (RT/PROT-(69)17)
radiation dose to, during radiodiagnosis, review of data on, 21:28525
radiation dose to, exposed professionally or therapeutically in East Germany, 21:1746 (SZS-9/66)
radiation dose to, following release of radioisotopes to atmosphere during reactor accidents, methods for calculation of, 25:18974 (AHSB(S)R-192)
radiation dose to, from commercial use of nuclearly stimulated natural gas, 24:41506 (CONF-700101-(Vol.1), pp 831-49)
radiation dose to, from external and internal exposure, recommendations of ICRP for maximum, 23:6483
radiation dose to, from fallout, 21:14640
radiation dose to, from Kiwi TNT test, 23:4937 (SWRHL-17-r)
radiation dose to, from low-level environmental contamination, techniques for estimation of, 25:16174
radiation dose to, from NRX-A2 experiment, 23:4936 (SWRHL-16-r)
radiation dose to, from NRX-A3 testing, 23:4938 (SWRHL-18-r)
radiation dose to, from nuclear explosions in construction of sea-level canal, computer code for β and γ, 23:43756 (CTC-8)
radiation dose to, from Operation Dominic II, 23:4932 (SWRHL-3-r)
radiation dose to, from Phoebus experiment, 23:4939 (SWRHL-19-r)
radiation dose to, from stack release following nuclear accidents, 23:31724 (KFK-868)
radiation dose to, from testing of Kiwi B4D, 23:4934 (SWRHL-7-r)
radiation dose to, in area surrounding Eurochemic reprocessing plant, 21:12839 (NP-16379)
radiation dose to, in Democratic Republic of Germany, cosmic and natural background, 21:18050
radiation dose to, in East Germany, determination of, by measuring natural radiation within buildings, 24:48532
radiation dose to, in Germany during 1965 and 1966 from natural external radiation, effects of environmental characteristics on, methods for determining, 24:21102 (SZS-14/69)
radiation dose to, in Hanford area in 1966, 21:36563 (BNWL-439)
radiation dose to, in Richland, Washington area, 23:29464 (BNWL-983)
radiation dose to, in vicinity of Hanford, use of dietary habits for estimating, 22:51560 (BNWL-706)
radiation dose to, of Great Britain, use of critical pathway to establish environmental, 23:50545
radiation dose to, of Leningrad, USSR, at different seasons, uv, 21:24425
radiation dose to, of man, review of, 21:45640
radiation dose to, of Soviet Union, global cesium-137, 25:11073
radiation dose to, of Windscale, England from radioactive waste discharge, external γ, 25:16173
radiation doses to, from peaceful use of nuclear explosions, 22:51568 (K-1752)
radiation doses to, of Richland Area, Washington, criteria for estimating, 23:33703 (BNWL-1019)
radiation dosimetry in reproductive systems of human, fallout and natural background γ, 25:16152
radiation dosimetry in, of Guarapari, Brazil, 21:12807 (NYO-2577-8)
radiation effects on aging, immune reactions, and peripheral blood of human, on Marshall Islands, correlation of fallout, 25:27058
radiation effects on body weight and fertility of, of mice manifested during four generations following exposure of parents, x, 23:38793
radiation effects on Brazilian human, natural radioactivity, 21:11087
radiation effects on capillaries in atomic bomb exposed human, on Hiroshima, latent, 25:32614
radiation effects on children from, of Hiroshima and Nagasaki, exposed to atomic explosions, 21:16511
radiation effects on dynamics of jackrabbit, in Utah, x, 23:7971(R) (COO-1329-7)
radiation effects on efficiency of selection for fitness in, of Drosophila birchii, x, 23:43723(R) (NYO-3096-27)
radiation effects on genetics in, from exposure to fallout, medical applications, and nuclear power, 24:29888
radiation effects on genetics of human, β from environmental carbon-14, 21:22452
radiation effects on genetics of human, expanding role of protective programs against, 25:2571
radiation effects on genetics of, of Hiroshima and Nagasaki exposed to atomic explosions, 21:18161
radiation effects on genetics of, of mice, rats, and swine, 23:29457
radiation effects on human, conference on estimation of low-level, 25:47012 (ANL-7811)
radiation effects on human, exposed to atomic bombing of Hiroshima and Nagasaki, annual report of Atomic Bomb Casualty Commission on research activities relating to, 23:24750(R) (ABCC-67-68)
radiation effects on human, exposed to atomic bombing of Hiroshima and Nagasaki, report of ABCC on pathological, 22:51670(R) (ABCC-66-67)
radiation effects on human, exposed to atomic bombing of Hiroshima and Nagasaki, report of research on, 23:850 (ABCC-66-67(Suppl.))
radiation effects on human, exposed to atomic bombings at Hiroshima and Nagasaki, review of carcinogenic, genetic, and pathological, 22:15048

radiation effects on human, following exposure to radiations from medical uses or nuclear explosions, 21: 6641
radiation effects on human, following nuclear excavation, recommendations for protection against, 23:50561
radiation effects on human, genetic, 22:51499
radiation effects on human, in areas of high-level natural background radiation in Brazil, biological, 23:7973(R) (NYO-3273-11)
radiation effects on human, in Bikini Atoll during 1954, medical survey on fallout, 23:933(R) (NIRS-6)
radiation effects on human, late somatic, 21:22772
radiation effects on human, of Marshall Islands exposed to fallout during 1954, late, 22:43360
radiation effects on human, quantitative evaluation of ionizing, associated with Project Ketch, 22:51876 (UCID-15325)
radiation effects on incidence of cancer and leukemia in, of Japan, 22:4652
radiation effects on incidence of detrimental genes in, of Drosophila melanogaster, x, 23:933(R) (NIRS-6)
radiation effects on incidence of disease in human, effects of dose on, 21:41393(R) (NP-16856)
radiation effects on incidence of leukemia in adult human, demographic parameters for differences between, 24:42010
radiation effects on incidence of mutations and delayed pathological conditions in human exposed to atomic bombing of Hiroshima and Nagasaki, 24:7975
radiation effects on incidence of proteinuria in human, exposed to bombing of Hiroshima and Nagasaki, 22: 51685
radiation effects on incidence of tuberculosis in, of man, postattack fallout, 21:41475 (NP-16851)
radiation effects on Kerala coast region, India, high-level natural background, 25:52230 (A/CONF.49/P-535)
radiation effects on leukemia incidence in human, x, 21: 18103
radiation effects on Marshall Island, 12 year post-exposure examination of, 21:1794 (BNL-10449)
radiation effects on mortality of human infant, following strontium-90 release by testing of nuclear weapons, 24:14610
radiation effects on mortality of U.S., exposed to nuclear attack, 21:20324 (RM-4706-TAB(Pt.1))
radiation effects on mortality of, exposed to nuclear attack, 21:20325 (RM-4707-TAB(Pt.2))
radiation effects on natural animal and human, summaries of AEC sponsored research on health and safety aspects of, 24:46593 (TID-4065)
radiation effects on rate of evolution of fitness in, of Drosophila pseudoobscura, x, 24:4678
radiation effects on reproductive capacity of, of deer mice, in laboratory, chronic low dose rate γ, 23:16390
radiation effects on selection in, of mice, x, 23:9916
radiation effects on yeast, chronic x, 23:6624
radiation effects on, in environment of nuclear research center Juelich following incidents, 24:36729 (JUL-603-ST, pp 7-84)
radiation effects on, of brine shrimp, x, 23:6561
radiation effects on, of human children, analysis of data on fallout, 24:23384 (CONF-690501-, pp 719-29)
radiation effects on, of mice, progress report on genetic, 23:41277(R) (NYO-1979-31)
radiation exposure of, in Democratic Republic of Germany, environmental, 21:28493
radiation hazard to human, from re-entry of isotopic power devices, 22:38293
radiation hazards to different human, from fallout compared with other radiation sources, 21:24444
radiation hazards to genetics of human, review of, 24: 31910
radiation hazards to human, at Chalk River National Laboratory during April to June 1968, research on, 22:51556 (AECL-3158)
radiation hazards to human, effects of nuclear power plant effluents on, 25:23211
radiation hazards to human, effects of nuclear power plant effluents on, 25:23207
radiation hazards to human, following diagnosis, x, 23: 20292
radiation hazards to human, from accident at nuclear power plant, 24:7870
radiation hazards to human, from accidents at nuclear installations, 24:7872
radiation hazards to human, from artificial and natural sources, 25:57994
radiation hazards to human, from atomic power installations, evaluation of, 25:32434
radiation hazards to human, from detonation phase of Project Rulison, environmental surveillance program to determine, 24:14483 (SWRHL-94-r)
radiation hazards to human, from diagnostic dental radiography, in USA, survey of, 24:34346
radiation hazards to human, from diagnostic medical exposure, x, 24:36838
radiation hazards to human, from environmental and medical exposures, ionizing, 24:36731 (NYO-3970-44)
radiation hazards to human, from iodine-129 from nuclear power industry, evaluation of environmental, 25:44811
radiation hazards to human, from medical radiography, in North Dakota, survey of, 24:34348
radiation hazards to human, from medical uses, comparison of hypothetical exposure from nuclear industries with, 25:26774
radiation hazards to human, from off-site accidents, evaluation of, 24:7873
radiation hazards to human, from operation of nuclear power plants, 24:29758 (BNL-14628)
radiation hazards to human, from radioactive aerosol release following nuclear accident, safety procedures to reduce, 24:7879
radiation hazards to human, from underground nuclear explosions, method for prediction of, 25:4172
radiation hazards to human, from waste disposal in Clinch River, 25:16180
radiation hazards to human, in Germany following nuclear test explosions, methods for determining, 24: 23136 (NP-18122, pp 127-53)
radiation hazards to human, in nuclear power reactor environments in Soviet Union, 25:29525
radiation hazards to human, in relation to other risks, levels of acceptability for, 24:48528 (CONF-700810-45)
radiation hazards to human, in relation to reactor site evaluations, 24:7880
radiation hazards to human, in United Kingdom following accidents involving criticality, radioisotope transport, and reactors, 24:7878
radiation hazards to human, in United Kingdom from discharge of radioactive wastes into aquatic environment, monitoring programs for assessment of, 24:7841
radiation hazards to human, of USA from diagnostic dental radiography, survey of, 24:34347
radiation hazards to Indian, in environs of uranium tailings pile in Arizona, measures for reducing, 24: 31895
radiation hazards to US, effects of developing nuclear power industry on, 25:21205
radiation hazards to, from environmental contamination, 21:14644
radiation hazards to, from fission products released to environment by reactor accident, 21:24406 (IA-1090)
radiation hazards to, from radioisotopes contained in commercially available industrial products, methods for controlling and monitoring, 25:29320
radiation hazards to, in comparison to chemical pollutants, measures for reducing, 24:25431
radiation hazards to, in environment of nuclear power plants, 25:26746
radiation hazards to, of Switzerland from a theoretical nuclear weapons explosion, measures for protection against, 24:21197 (FMB-69-7)
radiation injuries in human, review of, 21:16452
radiation injuries in Marshallese, medical studies on, 21: 11002 (BNL-10722)
radiation injuries to human, computer analysis of, 25: 37728(R) (AECL-3860)
radiation monitoring of environment of human, natural background, 23:50462 (PHS-999-RH-33, pp 124-7)
radiation monitoring of human, following accidents, use of mobile whole-body counters for, 24:7855
radiation monitoring of human, in India for contamination in area of pre-operational reactor, 23: 14182
radiation monitoring of human, in vicinity of Richland, Wash., during 1968, 24:50872 (BNWL-1341)
radiation monitoring of northern New England, 22:2220
radiation monitoring of, in San Francisco Bay area, γ, 24:14479(R) (UCRL-19354)
radiation protection in Brisbane, Australia, program for, 21:18047
radiation protection measures for, during nuclear accidents or nuclear warfare, 24:50947 (SZS-9/70)
radiation protection methods for human, in fallout and nuclear attack areas, review of, 23:6457
radiation protection methods for, in relation to building and use of nuclear power plants, 23:6464
radiation protection of human, following accidents, methods for, 24:7887
radiation protection of human, following contamination of environment, methods for, 24:34191
radiation protection of human, from fallout, criteria for establishment of, 22:25834
radiation protection of human, from x radiation emitted by home television receivers, standards for, 25:29537
radiation protection of human, in environs of Atlantic Richfield Hanford Company, manual of procedures and standards for, 24:4632 (ARH-220)
radiation protection of human, programs in USA for, 24: 34184 (CONF-690335, pp 34-8)
radiation protection of human, standards for, 24:7912
radiation protection of rural, during radiological warfare, 21:22436
radiation protection of, assessment of, for planning of future nuclear power plants, 24:48579 (CEA-CONF-1561)
radiation protection of, economics of defense systems for fallout, 23:29549
radiation protection of, following nuclear accidents, recommendations for development of emergency procedures for, 25:16207
radiation protection of, from SNAP-27, control plan for Kennedy Space Center for, 24:4633 (N-69-34910)
radiation protection of, in environs of installations handling radioactive materials, 21:1763
radiation protection of, in environs of nuclear installations, 22:21532
radiation protection of, in France during transport of gamma sources, standards for, 22:36265
radiation protection of, in Sweden, development of institute for, 22:40728
radiation protection of, in United States, government standards for, 23:45776
radiation protection of, in vicinity of nuclear installations, safety measures for, 25:13471
radiation protection of, in vicinity of Project Dribble, 21:18056
radiation protection of, recommendations of ICRP on, 24:32032
radiation protection of, role of governmental agencies in, 21:34677
radiation protection programs for human, of USA, 24: 34183 (CONF-690335, pp 26-33)
radiation protection programs for, in Belgium, 22:21518
radiation protection standards for human, in United States, 23:14153 (DUN-SA-77)
radiation protection standards for, in relation to protective measures in medicine, 25:35147
radiation protection standards for, use of average-annual concentration for, 24:48583
radioactive contamination of, 21:19294 (ISS-66/29)
radioactive contamination of diet of human, in Europe in relation to diet composition, 24:21098 (EUR-4218)
radioactive contamination of human, in vicinity of nuclear facilities, methods for assessment of, 21:20176 (NP-16616)
radioactive contamination of, by ingestion or inhalation following nuclear explosions, method for estimating, 23:20194 (CONF-680507-, pp 346-61)
radioactivity in diet of, in high background areas in Brazil, 25:13439
radioactivity in Federal Republic of Germany during second quarter of 1967, 22:33820
radioactivity in Federal Republic of Germany during first quarter of 1967, 22:38290
radioactivity in German Federal Republic, 4th quarter 1966, 21:28505
radioactivity in German Federal Republic, results for 3rd quarter 1966, 21:28506
radiodiagnosis of lung cancer in human, by mass miniature radiography survey, 23:45816
radioinduced chromosome aberrations in human, review of, 23:43729
radioinduced chromosome aberrations in leukocytes of, of Marshall Islands, fallout, 21:39446(R) (NYO-3777-7)
radioinduced fractional-lethal mutations in, calculation of, 22:36225
radioinduced genetic effects in human, latent, 24:41797 (BRH/DBE-70-1, pp 17-22)
radioinduced harmful traits in human, genetic studies of frequency of, 21:14620
radioinduced injuries in children of Marshallese, following exposure to fallout, 23:29821 (BNL-13584)
radioinduced injuries in human, following contamination from satellite impact, model for prediction of, 22: 43429
radioinduced injuries to, following nuclear attack, mathematical prediction of, 25:6759 (AD-697936)
radioinduced mutations in fruit fly, comparison of spontaneous rates to rate of x, 23:17992
radioinduced mutations in human, in comparison with chemicals, evaluation of, 25:18965
radioinduced mutations in human, method based on sex rates for calculation of, 24:34282
radioinduced mutations in human, relation of, to natural selection, 25:11025
radioinduced mutations in human, statistical methods for determining incidence of, 24:44463
radioinduced mutations in plant, selection of, 23:16272
radioinduced mutations in, biological model for analysis of x, 22:36243
radioinduced mutations in, of mice, x, 23:26737
radioinduced variations in, conference on, 24:34247
radioinduction of thyroid nodules in, at Rongelap Atoll following fallout irradiation in 1954, 21:11058
radioisotope burdens of Alaskan Eskimo, 21:34650(R) (BNWL-322)
radioisotope contamination in food cycle of Alaskan Eskimo, 21:22772
radioisotope content of blood and urine from human, of Finland in 1964 and 1966, cesium-137 and strontium-90, 23:35717
radioisotope content of bones of human, in subarctic regions before and after atomic bomb tests, lead-210, radium-226, thorium-228, 24:12032(T) (AEC-tr-7128, pp 180-93)
radioisotope content of diet and urine of human, in Italy, ratio of cesium-137 to strontium-90, 24:7824
radioisotope content of human, in Alaska in relation to diet, lead-210 and polonium-210, 24:19309
radioisotope content of human, in Norway during cesium-137 and strontium-90, 23:20241
radioisotope content of placentas of Eskimo, of Arctic regions, lead-210, polonium-210, and radium-226, 23: 14185
radioisotope hazards to human, from SNAP spaceflights, development of mathematical models for evaluation of, 23:29547 (SC-DR-68-345)
radioisotope ingestion by human, in Colombia and Panama for feasibility studies of proposed Atlantic-Pacific interoceanic canal, estimation of potential, 25: 10995 (BMI-171-45)
radioisotope monitoring of, of Finland in 1967, cesium-137 and potassium-40 whole-body, 23:33697 (SFL-A-12, pp 27-30)
radioisotope uptake by human, from diet in Soviet Union during 1966 to 1967, cesium-137, strontium-90, 23: 18001(T) (AEC-tr-7030, pp 40-8)
radioisotope uptake by human, from diet in USA and USSR, 24:9799 (CONF-690303-, pp 189-200)
radioisotope uptake by human, in Germany during 1967 and 1968 from ingestion of fish, 25:35096
radioisotope uptake from food by, of Czechoslovakia, cesium-137 and strontium-90, 22:51655
radioisotope uptake from milk by human, methods for reducing, 24:34016 (AD-701190)
radioisotope uptake from milk by human, prediction of cesium-137, iodine-131, and strontium-90, 23:815 (AD-672097)
radiosensitivity of, use of physiological state of individual mice for, 23:10067
radium content in, comparison of amounts obtained from drinking water and foods, 21:3402 (NP-16260)
radium-226 content of diet of human, in New York and San Francisco, 24:25481(R) (HASL-224)
radium-226 content of human, in Switzerland during 1964, 22:21500
radium-226 uptake by human in United States from 1964 to 1967 following ingestion of food, method for calculating, 24:31963
radium-226 uptake by human, in Alaska in relation to content of Pacific salmon, 23:45725
reaction of human, to γ-irradiated papayas, survey of, 23:10136 (UH-235-P-5-3, pp 26-53)
recovery of human, from nuclear attack, economic and social aspects of, 21:12842 (NP-16536)

- renal clearance rate for radioiodine in, of Australia and United States, 21:8713
- reorganization of human, following nuclear attack, role of preattack planning in, 23:50601 (CONF-671135-, pp 375-93)
- research at Chalk River Nuclear Laboratory during 1969, 24:7727 (AECL-3374)
- research at CRNL during 1970, 24:48391(R) (AECL-3611)
- research at CRNL in Canada during 1969, 24:41754 (AECL-3430, pp 5-18)
- response to civil defense warning systems, mathematical model study of, 21:20181 (ORNL-TM-1719)
- sea otter, on Amchitka Island in Alaska, preshot aerial survey of, 23:50394 (BMI-171-120)
- selection of, with smallest variance, sequential procedure for, 23:15757 (ORNL-4355)
- size of, effects of restricted, on genetic variation of quantitative characters, 21:24376 (NIRS-5, pp 47-55)
- social structure of human, in relation to postattack management, 23:50599 (CONF-671135-, pp 327-63)
- social structure of, of small mammals at National Reactor Testing Station, 23:45687
- sociology of working groups, 21:21826 (IDO-17130)
- standards for protection of, against radioactive aerosols, 22:23508 (SC-M-67-2973)
- strontium-90 content of bones in human, of Australia in relation to calcium and diet, effects of nuclear test explosions on, 24:23182 (NP-18100)
- strontium-90 content of bones of human, effects of calcium in drinking water on, 23:22247(T) (AEC-tr-6944, pp 215-21)
- strontium-90 content of human, equations for prediction of, 24:2597 (NYO-4039-1, pp 33-5)
- strontium-90 content of rural and urban human, of Soviet Union, 25:10934 (NP-18380)
- strontium-90 content of teeth of, in United Kingdom in relation to fallout, 23:33700
- strontium-90 content of, from diet, evaluation of maximum permissible concentration for, 25:24148(T) (AEC-tr-7195, pp 5-11)
- strontium-90 intake by rural and urban human, in Soviet Union during 1959 to 1967, 25:39853(T) (AEC-tr-7232, pp 45-56)
- strontium-90 uptake by rural and urban, of USSR during 1963 to 1964, effects of diet on, 21:32647 (NP-16518)
- strontium-90 uptake from diet by, of Armeniya, effects of fallout on, 24:25472 (A-AC-82/G/L-1297)
- structure of postattack, in United States, economic aspects of, 21:32679 (RM-5140-TAB)
- survey of human, in environment of nuclear service center in New York, 23:29473 (NP-17860)
- survey of human, in India for congenital abnormalities, infant mortality rates, and sex ratio of offspring following exposure to thorium and uranium in coastal sands, 25:37807 (NP-18729)
- survey of thorotrast use in Chicago, 23:817 (ANL-7360, pp 1-67)
- survey on Amchitka Island during 1968, preshot photographic census of, 23:45680 (BMI-171-119)
- survey on, of Hiroshima (1946-1962) for incidence of leukemia, 21:8962
- survey on, of Japan for blood disorders induced by nuclear explosions and radiotherapy, 21:8963
- survival capability of, following nuclear attack on United States in 1975, 23:50593 (CONF-671135-, pp 231-42)
- survival following nuclear attack, factors in, 23:50591 (CONF-671135-, pp 207-16)
- survival of human, after nuclear attack, importance of survival of farm livestock for, 23:50603
- survival of human, following nuclear attack, development of model for, 23:50592 (CONF-671135-, pp 217-29)
- survival of nuclear explosions in urban areas, methods for assessment of, 21:32680 (SRI-4949-130)
- survival of nuclear warfare in United States in 1975, economic aspects of, 23:50594 (CONF-671135-, pp 245-73)
- survival of, in postattack environment, program for, 22:33809 (BNWL-SA-1509)
- thyroid carcinomas in human, of Japan following exposure to atomic bombing, incidence of, 24:816 (ABCC-TR-4-68)
- trichinosis infections in human, of Japan, examination of diaphragms for determining incidence of, 24:23296
- variations between binomial, for combinations of α and β probabilities, formula for tabulation of, 24:43871 (BRH/DBE-70-1, pp 3)

PORCELAIN
- (See also as products, e.g., Pipes.)
- bonding of, using mixed copper—silver powders and heat, 21:39672(T) (UCRL-Trans-10112)
- corrosion by water vapor in molten mixtures of potassium and sodium, 21:22901
- fabrication, composition, and processing of, 21:41561
- gamma absorption coefficient of, (E), 25:27826 (DEMO-70/11)
- radiation effects on electrical properties of electrical-engineering, gamma, 25:44751
- radiation effects on electrical-engineering, thermal neutron, 24:14997
- radioinduced breakdown of, thickness dependence, 23:14899

PORCELAIN ENAMELS
- (A glassy composition fused to metal or another enamel.)
- see also Glazes
- analysis of dental, for uranium by beta counting and x fluorescence, 24:36150
- bonding to carbon steel and type 303 stainless steel, 21:16650
- performance as protective coatings for beryllium corrosion inhibition, 23:22471
- use for coating manganese-activated calcium fluoride for thermoluminescent dosimetry, 22:14857

PORIFERA
- content of fallout in Puerto Rico, 23:12044 (PRNC-60)
- ecology at Eniwetok Atoll, 22:30417(R) (TID-24205)
- efficiency for trace element sorption from seawater, 21:41047(R) (YALE-2912-13)
- Ephydatia meyeni, radioinduced denaturation of DNA of, effects of, on uv absorption curves, 22:51407
- gold-198 uptake by marine, in comparison to uptake of stable gold, 22:51405
- Leucosolenia sp., radiation effects on, strontium-90 and yttrium-90 β, 24:32281
- Spongilla lacustris, iodine-131 content of, tracer study of, in oligotrophic lake, 23:17975 (CONF-670503-, pp 278-84)

POROSIMETERS
- accuracy of mercury, for measuring graphite porosity, 23:20547
- design and performance of radiometric mercury, using gamma absorption, 22:19175
- design for oxide film defects determination, 22:41118
- design for well logging using neutron and sonic transmission characteristics, 24:39382(P)
- design of combined neutron and gamma—gamma, for well logging, 23:41082(P)
- design of digital leak-rate, 23:34968 (Y-1671)
- design of gamma-absorption, for measuring pore size distribution of artificial graphites densified by cracking of natural gas, 23:9779
- design of gamma-absorption, for pore size distribution measurement in graphite, 24:21033(T) (ORNL-tr-2297)
- design of neutron radiometric, for soils, 25:37662(P)
- design of neutron radiometric, for soils, 25:37664(P)
- design of neutron radiometric, for soils, 25:44714(P)
- design of neutron radiometric, for well logging, 25:10889(P)
- design of neutron radiometric, with borehole-effects compensation, 25:26541(P)
- development of neutron radiometric, for well logging, 25:18874(P)
- use of gamma-absorption radiometric mercury, for determining carbon porosity, 22:19176

POROSITY
- see also Permeability
- determination from particle size data, statistical model for, 22:36535 (LA-3938)
- effects on internal friction and sound velocity in uranium carbide, uranium nitride, and uranium oxide, 23:51115
- evaluation of film, electrochemical method for, 25:54859(P)
- measurement of porous solids, gamma absorption method for, 22:21287 (CEA-R-3204)
- measurement of, use of epithermal neutron device for, 21:6320
- measurements of graphite, accuracy of mercury porosimetry, 23:20547

POROUS MATERIALS
- see also Graphite
- see also Porous Metals
- capillarity in heat pipe wicks of, effects on heat transfer, 23:35363 (ORO-3411-12(Pts.1 and 2))
- diffusion of ammonium chloride and tritiated water in, 24:34981
- equation of state for geologic, development of model for, 23:31419 (UCRL-50627)
- flow of conducting liquid in transverse magnetic field across, friction coefficients, (E), 23:14671
- gas diffusion and flow in, approximate equations for, 22:10115 (AERE-R-5492)
- impregnation with ammonia solutions of sodium, method for, 21:45081(R) (NYO-1158-21)
- magnetohydrodynamic flow in, (T), 25:1044
- morphology of, determination by microscopic evaluation of particle stacking connectivity, 25:4841(R) (SRO-552-5)
- permeability—strength relations in, model for, 24:32395
- pore coalescence and migration in, thoery for surface-diffusion, 25:45103 (CONF-710601-3)
- pore filling in plasma spray deposited, by pyrolysis of a thermally decomposable compound, 23:24825(P)
- pore radius of, design of equipment for measuring, 21:43128(P)
- pore size distribution in, mercury porosimetry method for measurement of, 25:29828
- properties of, effects of stereometric microstructure on, 25:8944 (KFK-1236)
- radioisotope dispersion through, use of tracer techniques to determine, 21:10444 (ORNL-TM-1681)
- radon diffusion in multilayered assemblies of, 22:10355 (MIT-952-4, pp 300-38)
- superfluid-helium flow through jeweller's rouge and vycor glass, critical flow rate of, (E), 23:36632
- thermal conductivity of spherical voids in, calculation of, 23:24375

POROUS METALS
- compaction of ductile, theory of, 23:22485 (SC-DR-68-865)
- gas diffusion in, effects of structure on efficiency of isotope separation by, 23:50071

PORPHINE
- see also Porphyrins

PROPHINE, α,β,γ,delta-TETRAPHENYL-
- complexes with copper, nickel, and zinc, deuterium exchange reactions with hydrogen in films of, 24:29243
- complexes with metals, γ radiolysis of, 22:16610
- radiolysis of, γ, 22:16610

PORPHINESULFONIC ACID, α,β,γ,delta,-TETRAPHENYL
- distribution of carbon-14- and tritium-labeled, in tissues of rats, 22:8447
- labeling with carbon-14 or tritium for use in tumor localization, 22:8447

PORPHOBILINOGEN SYNTHASE
- activity in plants, effects of EDTA, iron, pH, and proteins on, 22:16972(R) (COO-1287-5)
- radiation effects on activity of, in liver and spleen of rats, x, 23:7929 (INR-921)
- radiation effects on activity of, in rat liver and spleen, whole-body x, 21:39345

PORPHYRIES
- age of Idaho, use of argon/potassium method for estimation of, 21:39039 (COO-689-76, App.A-X)
- uranium content of, effect of thermal changes on, 21:36169

PORPHYRINS
- see also Chlorophyll
- see also Cytochromes
- see also Hematoporphyrin
- see also Hemogloblin
- see also Protoporphyrins
- complexes with iron, Moessbauer spectroscopy of, 22:20994(R) (NYO-3859-2)
- complexes with manganese, oxidation and reduction reactions of, 22:12200 (UCRL-17853)
- complexes with metal ions, ESR studies of, 21:3375 (UCRL-16806, pp 6-8)
- complexes with metals, preparation by chemical and electrochemical oxidation, 23:40534 (BNL-50149, pp 26-39)
- compounds with magnesium, molecular orbitals and oscillator strengths in, 21:44975 (ORNL-TM-1951)
- content in erythrocytes of man, effects of, on uv-radiosensitivity, 21:28369
- content of skin of man in relation to uv photosensitivity and porphyria, 22:25987
- effects on chemistry of manganese ions, 22:12200 (UCRL-17853)
- effects on hemolysis of uv-irradiated erythrocytes, 25:18914
- electronic structure of metal, 21:22242 (UCRL-17200)
- ion reactions with, kinetic, magnetic, and Moessbauer studies of, 25:18314(R) (TID-25652)
- magnetic properties of, review of, 25:6646
- magnetic susceptibility of ferric, measurement of low-temperature, 22:25717(R) (NYO-3859-1)
- radiation effects on, in aqueous solution, mechanism of recovery from, 22:23425
- radioinduced ESR spectra of triplet states and free radicals in solid solutions of, at 77°K, uv, 21:17968
- radioinduced formation of free radicals in ethanol solutions of magnesium-etio-, effects of interrupted illumination on uv, 21:32582
- radioinduced increase in excretion of, by rats, whole-body x, 21:41508
- radioinduced increase in excretion of, by rats, whole-body x, 21:41507
- reactions of, mechanisms of redox, 24:44026 (BNL-50205, pp 35-49)
- separation of nonvolatile, by hyperpressure gas chromatography, 22:45155
- spectra of ferric, determination of Moessbauer and nuclear magnetic resonance, 22:25717(R) (NYO-3859-1)
- structure in erythrocytes of ducks, 21:22233 (BNL-994, pp 113-23)
- superconductivity of films of zinc etio-, evaporated jointly with beryllium, (E/T), 25:40550
- synthesis in plants, role of enzymes and iron in, 22:16972(R) (COO-1287-5)
- synthesis of primordial, 22:33734

Portable Gas-Cooled Reactor
- see Army Reactor (ML-1)

PORTLAND CEMENTS
- analysis for strontium by atomic absorption spectrometry, 25:15497
- production of, economics of dual purpose reactors for, 25:54244
- properties of 730, effects of temperature on mechanical and physical, 24:14989 (EUR-4280(Vol.1), pp 9-42)
- properties of B.H.T.-filled 730, effects of temperature on mechanical and physical, 24:14989 (EUR-4280(Vol.1), pp 9-42)
- radiation effects on 730 and B.H.T.-filled 730, 24:14989 (EUR-4280(Vol.1), pp 9-42)
- radiation effects on crystal structure and mechanical properties of, gamma, 25:47191
- shielding properties of, with cadmium and samarium additions, 22:43671

Ports
- see Harbors

PORTUGAL
- iodine-131 content in cattle and sheep thyroid in, following Chinese nuclear tests, 25:35133
- iodine-131 content of thyroid glands in cattle and sheep of, following Chinese nuclear tests, 25:24017
- legislation for nuclear activities, 24:7920
- nuclear power plant integration with hydro capacity of, economics of, 25:53943 (A/CONF.49/P-519)
- radiation control legislation and regulation developments in, 1968 and 1969, 23:41339
- radiation dose to region of Sacavem, from external fission product deposition during 1964 to 1968, method for calculating, 24:46614
- radiation processing of food in, 22:52123
- radiation protection in, standards for, 21:28437 (LFEN-55)
- radiation protection programs during 1965 through 1970, 25:52091 (A/CONF.49/P-523)
- uranium ore processing in, status of, 22:18985
- uranium processing and resources for nuclear industry in, 25:51561 (A/CONF.49/P-522)
- uranium production and sales in, 22:10344
- uranium reserves in, estimates of, 1967, 22:23174 (NP-17371)

Position Indicators
- see Displacement Gages

POSITIONING
- sensing methods for, Project WISP, 21:27877(R) (UCRL-13266)

POSITRON BEAMS
- confinement and focusing in linear accelerators, stepped-field configuration for, 21:9896
- detection of, coincidence collimation methods for, 21:6557
- dimensions and lifetime in storage rings, effects of number of particles on, 21:33825

focusing device for Orsay linear accelerator, design of, 21:25371
focusing in acceleration fields, solution to idealized problem of, 21:37117
focusing of relativistic, axially symmetric magnetic lenses for, 21:43780
focusing of, development of electromagnetic lenses for, 21:7591 (SAL-5)
monitoring at 6 and 11 GeV, design of secondary emission monitor for, 23:29225
monitoring of low-intensity, rotating plastic scintillation detector for, 25:3497
monitoring of, single-foil secondary emission monitors for, 22:46684
polarization in strong-focusing synchrotrons, resonance depolarization effects on, 22:15892
polarization parameter test from phi $\rightarrow K^+ + K^-$ decay, (E), 24:6690 (LAL-1222)
production from electron interactions with beryllium targets at 16 to 18 GeV, 21:17230
production in Stanford Linear Accelerator, design of equipment for, 22:14635
production of 10 to 50 MeV, linac converter and focusing system for, 24:30645
production of low-energy, radioisotope source with focusing system for, 24:32615
production of low-energy, using cobalt-58 or sodium-22 source, 25:37551
production of, review of, 23:25750
stability of extremely relativistic, effects of transverse resistive walls on, 21:29758
storage ring for, design modification of Princeton-Stanford, 21:2537 (AD-634717)
storage rings for, development of, 21:38141

POSITRON CAMERAS
(Devices for detection of annihilation γ rays from positron emitters usually in tissues)
see also Scintillation Cameras
classification and use of, 21:6557
data processing and display system for hybrid scanning, computer-based, 23:33417
description of, with sharp focusing, 24:39274(P)
design and operation of, 23:21943 (UCRL-18705)
design and performance for clinical diagnosis, 22:19371
design and performance for medical use, review of, 23:16357
design and performance of, 21:1768
design and performance of, for detection of annhilation γ rays from reactions of high-energy α particles in tissues, 23:29508 (UCRL-18347, pp 155-70)
design for brain scanning using positron-emitting radioisotopes, 25:551
design for medical diagnosis, 23:19970(P)
design of, 25:37585(P)
development for radiodiagnosis and dynamic function studies, 23:33455
development for radioisotope scanning, 23:50132
development for scanning using carbon-11, nitrogen-13, or oxygen-15 as tracers for, 25:8711(R) (NYO-3937-2)
development for visualization of radioisotope distribution in man, 24:29794
development of, 24:33896
development of, 25:4337
development of hybrid, with computer interface, 24:9639(R) (NYO-3937-1)
development of multiple proportional detector, 25:57774
development of, review on, 25:13222
developments in scintillation, survey of, 22:38056
imaging properties of, 25:378
performance for bone scanning using fluorine-18, 24:32071
performance for localization of positron-emitting radioisotopes in brain tumors, 24:29798
performance for scanning bones using fluorine-18 or strontium-85, 23:50687
performance for scintigraphy of human bones using fluorine-18, 25:42564
performance for scintigraphy of human brain using sodium-22, 25:42565
performance for scintigraphy of human liver using copper-64-labeled erythrocytes, 25:42564
performance of scintillation, in comparison to rectilinear scanners, 22:38055
resolution and count rate capacity of, (E/T), 25:21412
use for studying fluorine-18, iron-52, and iron-55 in mammalian blood and marrow, 24:784

Positron Sources
see Beta Sources

POSITRONIUM
see also Electron Pairs
annihilation at low temperatures, Zeeman effect in, (T), 22:5127
annihilation energy width, in oxygen, electric-field effects on, (E), 21:6973 (AROD-3347:7)
annihilation in condensed matter, rate of pickoff, (T), 24:47013
annihilation in liquid and solid methane, momentum distribution for two-photon, (E/T), 23:1166
annihilation in molecular liquids, rates and effective numbers of electrons for, (E/T), 24:32638
annihilation in silicone fluids of triplet, lifetime and intensity of long-lived component, (E), 23:14649
annihilation of ground state level, corrections to, (T), 21:3633 (JINR-P2-2949)
annihilation of ortho, by pickoff quenching in helium, (T), 21:613
annihilation of triplet, in organic liquids, correlation with electronic and structural properties, (E), 22:19746
annihilation of, by chemical reactions, angular distribution of gamma radiation from, 21:1408
annihilation of, correlation between decay lifetimes and angular distributions in two-photon, (E), 22:5817(R) (NYO-GEN-72-28)
annihilation of, validity of Sachs—Schwebel theory of quantum electrodynamics for, 23:15226
annihilation rate in argon of ortho-, (E), 23:32152
annihilation rate of para-, (E), 24:51414
annihilation rates of, review, 23:36480
binding energy of molecular, 22:38785
book: Physical Chemistry of Positrons and Positronium (in Russian), 24:1274
chemical reactions in aqueous solutions of potassium permanganate, 23:28936
chemical reactions of, review of, 21:12417
chemistry of, 24:20727(R) (MIT-905-154)
chemistry of, review of, 21:22010
decay $^1S_0 \rightarrow 3\gamma$, charge conjugation invariance and Carruthers theorem for, 22:48265
decay of ortho and para, test of charge conjugation conservation in 3γ, (T), 24:33032 (LNF-70/11)
decay of ortho-, precision measurement of rate for, (E), 23:42544
decay of, angular and momentum correlations in three-photon, (E), 25:16795
decay of, production of e^+ and e^- in, (T), 25:40922
decay of, proposed test of charge-conjugation invariance in, 25:45702
decay of, quantum field theory for two-photon, 25:20071
decay of, test of charge conjugation conservation in, (T), 25:53241 (AD-720854)
decay rate of $^1S_0$ state, (E/T), 23:12558
decay rate of ortho-, photon—photon scattering contribution to 3-photon, (T), 25:13992
detection of free, production of e^+ and e^- in positronium decay for, (T), 25:40922
diffusion in alkaline earth, aluminum, and silicon oxide powders, mean paths and rates of, (E), 23:36497 (CEA-R-3804)
energy levels of positronium—proton system, ground-state, 22:5129
energy levels of, complex angular momentum for unstable, 21:27341
energy levels of, effect of complex angular momentum on transition probability for unstable, 21:27009
energy levels of, lifetimes of excited, 24:3163
energy levels of, mass formula for, 24:3156
energy levels of, possible existence and stability of 2S, (T), 23:48726
energy levels of, relativistic Balmer formula for, 24:37194
energy of ground state of negative ion of, (T), 24:28086
existence of bound-state system proton—electron—positron, 22:9033
formation and decay in liquids and amorphous, semicrystalline, and crystalline solids, free-volume model for, 23:22922
formation and lifetime in carbon tetrachloride and iodine adsorbed on silica gel, (E), 24:21570
formation and stability in ionic crystals, calculations, 25:40372
formation by positron annihilation in hydrogen, calculation from three-particle scattering equations of cross sections for, 23:41944
formation by positron reactions at 10 to 100 eV with electron gas in metals, (T), 23:46274
formation by positron stopping in inert gases, search for Lyman-α radiation from, 24:30153
formation by subexcitation positrons, effects of impurities and electric fields on, 23:48728
formation during positron annihilation in organic liquids, mechanism for, (E/T), 25:35853
formation in electron gas, two-body bound-state equation for, 25:980
formation in liquid and solid argon, krypton, and xenon, bubbles associated with, 25:19487
formation in oxides of 1S and 2S states of, effects of forbidden band width on, (E/T), 24:28087
formation in positron reactions with helium and hydrogen, (T), 24:21588
formation in positron reactions with hydrogen atoms, cross section for, (T), 22:13219
formation in positron scattering by helium, projection-operator method for calculation of, 23:27348
formation of negative ions of, by double-electron capture by positrons passing through helium, Born-approximation calculation of total cross section for, 23:27349
hyperfine energy splitting in water at 0 to 45°C, magnetic quenching measurements of, 23:1181
hyperfine splitting in, test of quantum electrodynamics from determination of e/h for fine structure constant for, 23:42725
hyperfine structure interval in ground state of, (E), 21:27007
hyperfine structure of 2S, (T), 24:49010
hyperfine structure of ground-state, (T), 25:55832
hyperfine structure of ground-state, corrections to triplet—singlet splitting in, (T), 24:35174
hyperfine structure of ground-state, corrections to, (T), 25:19484
hyperfine structure of, Bethe—Salpeter equation for, 25:47347
hyperfine structure of, level shifts in, (T), 23:51385
hyperfine structure of, review, 23:36480
hyperfine structure of, test of quantum electrodynamics from relativistic treatment of, 22:46516
hyperfine structure, (E/T), 23:12558
hyperfine-structure interval of ground state of, (E), 24:51414
interaction with surrounding gaseous medium, energy of, (T), 25:49722
interactions with molecules of surrounding medium, determination of energy of, (T), 24:19743
lifetime for four-photon decay, reduced cross sections for electron pair four-photon annihilation for, (T), 24:30478 (N-69-10274)
lifetime in crystal lattice fields, (T), 23:22889
lifetime in helium of ortho-, (E), 21:16798
lifetime in liquid argon, fast-slow coincidence for, (E), 25:40370
lifetime in sodium-22, delayed coincidence measurements of, 24:1275
lifetime of ortho-, in iodine in organic solvents, (E), 24:21571
lifetime of ortho-, in molecular materials, free-volume model for correlation of two-photon annihilation intensity with, 23:27346
lifetime of, mechanism of radioinduced polymerization of organic crystals by measurement of, 24:27120
lifetimes in oxides, ortho-, (E), 23:14628
lifetimes of ortho-, in oxides, 24:23766
localization in bubbles in liquid and solid helium-4, (T), 24:8337
motion in liquified gases, bubbles due to zero-point, (E), 22:17374
particle—antiparticle interactions in ionized mixture of hydrogen and, atomic effects on annihilation of, (T), 25:1455
photon emission from, method for detection of Lyman-α, negative results, 24:45012
physical chemistry of, review, 22:52538
positron annihilation on negative ions of, 22:31648
preparation, properties, and reactions of, review on, 23:28782(T) (JPRS-48064)
production and physical properties, review of, 22:49990
production and reactions of, 23:47579
production in interactions of two charged particles at high energies, cross sections for, (T), 25:40922
production in matter, electric field effects on, (T), 22:47833
production in molecular substances, electric field effects on, 22:50047
production in positron reactions with helium, (T), 24:12647
production in positron scattering on hydrogen, (T), 22:952
production in positron—hydrogen collisions, cross sections for, (T), 22:17351
production of, Born approximation for, (T), 22:17354
production of, perturbation theory for singularities in quantum electrodynamics for, 22:29751
production under astrophysical conditions, 22:20175 (NP-17317)
properties in solids, (T), 21:46140
properties of, review, 24:19734
properties of, review of, 21:12417
quenching of triplet, in condensed media, 21:43774
radiation effects on systems containing, ionizing, 23:27344 (AD-680818)
reactions of ortho-, with helium, calculation of two-photon decay rate in, 23:5228
reactions of, mathematical analysis of chemical, 22:16640
reactions with atoms, review, 24:19734
reactions with chlorine, chemical properties of, 22:34279
reactions with hydrogen atoms up to 90 eV, total cross section for positronium negative-ion formation in, (T), 24:45009
reactions with iodine in organic solvents, (E), 24:21571
reactions with nitrates, 21:22010
reactions with oxygen, 21:22010
reactions with protons, generalized variational bounds and coupled-static approximation for, (T), 25:9216
reactions with solids, 21:22010
scattering by helium, model using local effective potential for, 25:24888
scattering in helium and hydrogen, (T), 24:21588
scattering of ortho-, by helium, quenching in, (T), 22:50006
source of, for optical emission studies, 24:21572
spin-flip probability in ice—water systems, effects on positron annihilation behavior, (T), 23:14626
spin-state mixing induced by magnetic field, 25:33073
theory for, Wigner—Weisskopf method in, 22:7461
thermalization by elastic collisions in rare gas moderators, (T), 22:19754
uses in evaluation of polymer properties, 24:1276
wave functions for negative ion of, correlated, 24:28086
yield in gases and organic solids, effects of subexcitation Ore gap and electric field on, (E/T), 24:37177(R) (NYO-2962-8)

POSITRONIUM COMPOUNDS
annihilation properties of positronium hydride, (T), 23:12539
configuration interaction wavefunction for hydrides, (T), 21:2060
detection of positronium hydride, using Lyman-α radiation from annihilation-product hydrogen atoms, 25:11700
energy levels of positronium hydride, calculations on ground and first-excited states, 23:1163
energy levels of positronium—proton system, ground-state, 22:5129
existence of bound-state system proton—electron—positron, 22:9033
formation in aqueous and liquid systems, 23:27344 (AD-680818)
preparation of, review of, 21:12417
structure of, self-consistent-field theory for, 24:23767
wave functions for ground state of positronium hydride, 23:12539

POSITRONS
see also Electron Pairs
see also Electrons
see also Positron Beams
absorption at 1.88 MeV in aluminum, carbon, copper, lead, and tin, (E), 21:23004
absorption in aluminum, copper, tin, and lead at 324 keV, (E/T), 25:40761
abundance in cosmic radiation, (T), 22:17434
abundance in primary cosmic radiation, (E), 22:5157
acceleration in Saclay linac, target and method for, 24:24474
acceleration in Tohoku Univ. electron linac, 24:18345
angular correlation measurements of, fourfold coincidence system for gamma—positron, 24:11798
angular distribution from copper-64, in monocrystalline copper, 24:14825

angular distribution in $\pi^+ \rightarrow \mu^+ \rightarrow e^+$ decay in 140 kG magnetic field, (E), 21:2360
angular distributions in high-energy cascade showers in air, (T), 24:21960
annihilation as probe for many-body effects in metals, 22:50257
annihilation at F centers in potassium chloride crystals, angular correlation of, (T), 25:38590
annihilation by electron gases, consistency requirements for ladder-approximation calculations on, 23:34271
annihilation by electrons in carbon—carbon and carbon—hydrogen bonds in hydrocarbons, momentum distributions in, (T), 22:13252
annihilation by K-shell electrons, angular distribution of single-quantum radiation from, (T), 21:33161
annihilation from cerium hydride, angular correlation of, 21:25821 (SC-CR-67-2572)
annihilation in alkali and alkaline-earth metal—ammonia solution, momentum distribution of photons from, (E), 23:5242
annihilation in alkali halide and ammonium nitrate solutions, 21:6995
annihilation in alkali metals, minimum energy for, (E), 21:16797
annihilation in alkaline earth, aluminum, and silicon oxide powders, lifetime measurements on, 23:36497 (CEA-R-3804)
annihilation in alkylbenzenes and ionic crystals, rate measurements of, 22:52511
annihilation in aluminum and silicon, angular distribution of radiation from, (T), 22:36722
annihilation in aluminum and sodium, calculation of core enhancement factors for, 21:43772
annihilation in aluminum, rhodium, and silver, 21:33186
annihilation in aluminum—cobalt—iron—nickel alloys and lanthanum lead manganate crystals, (E), 21:28963
annihilation in aluminum—copper alloys, Fermi surface analysis from, 22:15581
annihilation in ammonia—cesium solutions, momentum distribution of photons from, (E), 24:21569
annihilation in annealed and deformed nickel alloys, (E), 22:17367
annihilation in antimony and indium, angular distribution of gamma quanta from, (E), 22:41303
annihilation in argon at densities from 10 to 65 amagats, (E), 24:23768
annihilation in argon, models for, 23:32151
annihilation in atomic K and L shells, calculation of cross sections for single-quantum, 24:28088
annihilation in beryllia, nickel oxide, zirconia, and niobia, angular correlations and three-quantum yields of, 25:43482
annihilation in beryllium and lithium hydride, calculation of photon spectra from, 23:12530
annihilation in beryllium, angular correlation of photon pairs from, (T), 24:23762
annihilation in bismuth, mercury, and bismuth—mercury alloys, angular correlation of, (E), 22:9090
annihilation in bismuth, temperature effects on gamma angular distribution from, (E), 23:18441
annihilation in cadmium, effects of vacancies on, (E/T), 25:47678
annihilation in calcium fluoride and quartz crystals, electronic lattice structure from, (E), 23:48999
annihilation in carbon tetrachloride and iodine, positronium formation and quenching in, (E), 24:21570
annihilation in cerium and Teflon at low energies, lifetimes of, (E/T), 25:38570
annihilation in cerium hydrides, angular correlation of radiation from, (E), 24:1278
annihilation in choline chloride crystals as function of temperature and phase, (E), 24:37210
annihilation in compounds and elements, tables of data on, 22:52536
annihilation in condensed matter, lifetime and effective electron number in, (E), 22:50001
annihilation in condensed media, (E), 22:26207
annihilation in condensed media, correlation between intensity and lifetime of slow component in, 21:43774
annihilation in condensed media, review of methods of approximation of, 24:37213
annihilation in copper alloys, angular correlation of radiation from, 24:10637
annihilation in copper and sodium, shift of radiation energy from electron rest mass energy, (E), 23:36500
annihilation in copper, angular correlation of gamma radiation from, (E), 21:24910
annihilation in copper, gamma angular correlation measurements from, 21:2024
annihilation in copper, gold, silver, and thallium halides, complex decay for, (E), 21:16815
annihilation in crystalline anthracene and benzene, effect of impurities on, (E), 22:2778 (NYO-3661-5)
annihilation in crystalline solids, momentum distribution of photon pairs from, (T), 21:37118
annihilation in crystals, angular correlation of photons from, 23:12529
annihilation in decane and hexane, momentum distributions in, (E/T), 22:13252
annihilation in deformed nickel alloys, angular distribution of photons from, (E), 22:52513
annihilation in dilute solid solutions, impurity effect on form of angular correlation curve in, (T), 24:39848
annihilation in electron gas in metals, (T), 25:12041
annihilation in electron gases, chemical potential and rate for, (T), 24:37214
annihilation in ferromagnetic gadolinium, polarized, (E), 23:1162
annihilation in ferromagnetic metals, structure analysis from, 22:36703(R) (AD-666453)
annihilation in ferromagnets, calculation of time dependence of, 21:46171
annihilation in flight, calculation of photon spectrum from, (E/T), 23:15300 (CEA-CONF-1225)
annihilation in flight, photon spectrum from, (E/T), 24:30150
annihilation in flight, photon yield and spectra from, (E/T), 23:8434 (CEA-R-3628)
annihilation in gamma-irradiated Teflon, 25:27306
annihilation in gases, maximum likelihood method for determining lifetimes for, 23:2724
annihilation in gases, time dependence of, (E), 25:58725
annihilation in germanium and silicon single crystals, momentum distribution of electrons from, (E), 21:46174
annihilation in gold, lead, tantalum, tin, and uranium, total cross sections for single-quantum, (E), 22:36723
annihilation in γ- and α-cerium, 23:44555
annihilation in helium, 21:3652
annihilation in helium at zero energy, variational calculation of angular correlation of photons from, 23:14613
annihilation in helium gas at 4.6 to 30°K, temperature effect on time-decay spectra of, (E), 24:39846
annihilation in helium gas, coincidence study of, 25:13987
annihilation in helium, calculation of, 22:24049
annihilation in helium, comparison of experimental results with results calculated from theoretical cross sections for, 23:46256
annihilation in helium, delayed-coincidence measurements of, 24:23765
annihilation in helium, formation and properties of e^+ He bound state in, (T), 24:32637
annihilation in helium, neon, and argon, electric field effects on, 24:32636
annihilation in hydrogen at 80 to 300 MeV, calculation of photon spectra from, 23:8443
annihilation in hydrogen ions at 0.025 to 5.46 eV, angular correlation and probability for, 21:44305
annihilation in hydrogen, calculation from three-particle scattering equations of cross sections for positronium formation in, 23:41944
annihilation in ice—water system, probability of ^3S—^1S conversion of positronium in (T), 23:14626
annihilation in inert-gas solids, (T), 24:15410
annihilation in iodine at 80 to 180 keV, cross sections and spectra from single-quantum, (E), 25:58723
annihilation in ionic crystals, analysis of, 25:33072
annihilation in ionic oxygen-containing compounds, two-quantum angular correlation study of mechanism of, 23:8472
annihilation in iron and nickel, effects of damage on angular correlation of radiation from, 24:49254
annihilation in irradiated and deformed iron, effects of vacancies on two-photon angular correlation of, (E/T), 25:19851
annihilation in irradiated organic crystals, 24:27120
annihilation in lead at 300 keV, cross section for radiationless, (E/T), 22:43921
annihilation in liquid ammonia, effects of lithium and sodium impurities on, (T), 21:43770
annihilation in liquid and solid ammonia, angular correlation of photons from, 21:46170
annihilation in liquid and solid ammonia, two-photon angular correlation and momentum distribution for, (E) , 23:10446
annihilation in liquid and solid argon, krypton, and xenon, positronium-bubble formation and angular correlation of photons from, 25:19487
annihilation in liquid and solid metals and semiconductors, angular correlation of photon pairs from, (E), 21:33213
annihilation in liquids and solids, apparatus for measuring γ—γ angular correlations from, 23:23746(R) (AECL-3257)
annihilation in liquids and solids, review, 23:16662
annihilation in liquids, effects of oxygen content on, (E), 21:18426
annihilation in lithium hydride crystals, (T), 21:7035
annihilation in lithium single crystals, relation of Fermi surface to angular correlation of radiation from, (E), 22:7173
annihilation in low-Z compounds, effective electron density for, 21:37125
annihilation in Lucite and magnesia powder, magnetic quenching of three-photon events in, (E), 21:43777
annihilation in magnesia and urania single crystals, anisotropy in angular correlation of gamma quanta from, 24:42821
annihilation in magnetized iron and nickel, rates of two-photon, (E), 22:45958
annihilation in materials, production of well-defined gamma rays from, 21:7005
annihilation in materials, structural studies from, 24:51409 (CONF-690916-(Vol.1), pp 172-7)
annihilation in matter, self-consistent-field theory for calculations concerning, 24:23767
annihilation in metal hydrides, delayed coincidence system study of lifetimes from, (E), 22:38732
annihilation in metal oxides, effects of disperse powdered state on, (E), 24:30152
annihilation in metals and alloys, review of, (E/T), 23:23295
annihilation in metals and oxygen gas, Doppler broadening of two-photon, (E), 24:21889
annihilation in metals at high pressures, study of momentum distribution of conduction electrons from, (E), 24:51816 (UCRL-19647)
annihilation in metals, angular correlation measurements for, (E), 23:46255 (RCN-108)
annihilation in metals, calculation of, 21:46173
annihilation in metals, effects of dislocations on, (T), 24:32633
annihilation in metals, effects of electron—phonon interaction on temperature dependence of angular correlation in, (T), 24:25986
annihilation in metals, effects of phonon interactions on rate of, (T), 25:11699
annihilation in metals, electron—electron interaction in theory of, 25:981
annihilation in metals, electron—positron and electron—electron interactions in theory of. 25:40371
annihilation in metals, lecture on, 23:32579 (KR-132)
annihilation in metals, mechanism for, (T), 24:12896
annihilation in metals, review, 22:31607
annihilation in metals, review of, (E/T), 23:16677
annihilation in metals, temperature effects on 2γ angular correlation from, (T), 25:17315
annihilation in metals, trapping at vacancies in, 24:39845
annihilation in methane gas, (E), 25:13993
annihilation in molecular materials, free-volume model for correlation between lifetime and two-photon annihilation intensity of ortho-positronium from, 23:27346
annihilation in molybdenum crystals, deformation effects on photon angular distribution in, 24:30403
annihilation in Naton plastic scintillator, correlation between decay lifetime and angular distribution in, (E), 22:37281(R) (NYO-72-191)
annihilation in Naton, decay lifetime correlation with angular distribution from, (E), 21:27013
annihilation in nitrogen, lifetime spectra as function of pressure for, (E), 25:7163
annihilation in normal aliphatic hydrocarbons, 21:31217
annihilation in organic insulators, effects of temperature on lifetime spectra of, (E), 21:41823
annihilation in organic liquids, mechanism for formation of positronium atoms in, (E/T), 25:35853
annihilation in periodic field, many-body theory of nearly free electrons, 25:9606
annihilation in plasma, diagnostic use of, (E), 24:35381 (AD-702760)
annihilation in plasma, nonrelativistic Hamiltonian for, 24:30336 (AD-702406)
annihilation in plasma, theory for, 25:14290
annihilation in potassium and helium gas, upper limit for one-photon, (E), 24:21889
annihilation in potassium metal, effects of magnetic field orientation on, (E/T), 21:7004
annihilation in powdered magnesium oxide, anomalous magnetic quenching of three-photon, (T), 22:17368
annihilation in quartz irradiated by fast neutrons, (E/T), 24:39842
annihilation in quartz, angular correlation of gammas from, (E), 24:37177(R) (NYO-2962-8)
annihilation in quenched and annealed cadmium, temperature dependence of, 25:2898
annihilation in rare earth metal single crystals, angular correlation of photons from, (E/T), 22:24436
annihilation in rare earth single crystals, angular correlation curves of radiation from, (E), 21:41822
annihilation in rare earth single crystals, photon angular distributions from, 22:24024 (CONF-670502-, pp 487-94)
annihilation in rare-earth single crystals, angular correlation curves, (E), 21:11690 (IS-T-112)
annihilation in selenium, tellurium, and their alloys, (E), 22:11508
annihilation in semiconducting indium telluride, angular correlation measurements, 21:43776
annihilation in semiconductors, (E), 23:1213
annihilation in silicon, symmetry elements of Brillouin zone observed by, (E/T), 22:9478
annihilation in single crystals, temperature effect in angular correlation of radiation from, (T), 24:45312
annihilation in single crystals, temperature effect on, (T), 24:23763
annihilation in single insulator crystals, angular correlation of gamma rays from, (E/T), 25:27865 (CEA-R-4138)
annihilation in sodium halide single crystals, effects of concentration of radioinduced defects on lifetime spectra for, (E), 24:1277
annihilation in sodium hydroxide glassy ice, effects of radioinduced trapped electrons on, (E), 25:55835
annihilation in sodium single crystals, Fermi-surface shape and velocity dependence of annihilation probability from, 22:7172
annihilation in sodium, aluminum, and copper, calculation of valence and core enhancements of, 24:12895
annihilation in solid acetaldehyde polymerized by gamma irradiation, 21:42970
annihilation in solid and liquid metals, angular correlation of gamma rays from, (E), 22:15372
annihilation in solids, higher-shell contributions and polarization correlations in, (T), 22:17380
annihilation in solids, ladder-graph approximation for, 22:17378
annihilation in substances, effects of magnetic field on two-quanta angular correlation in, 25:33073
annihilation in superconducting aluminum—niobium alloys, 23:30480
annihilation in superconducting intermetallic Nb_3Sn, gamma angular-distribution from, (E), 23:25283
annihilation in superconducting metals, (E), 23:27542
annihilation in synthetic Zeolites 4A and 13X, intensity of long-lived components in, (E), 24:39844
annihilation in teflon-jacketed lead single crystal, experiment on ejection effect in, 24:25987
annihilation in tungsten single crystal, effects of gamma irradiation on angular distribution of photons from, 25:33425
annihilation in twenty oxides, measurements, 24:23766
annihilation in ytterbium under pressure, 25:41778 (UCRL-20500, pp 1-85)
annihilation in yttrium and zirconium, angular dependence of, 23:8684
annihilation in zirconium single crystal, angular distribution of two-photon, 25:14441
annihilation interactions of, use of lithium-drifted germanium detectors for measurements of, 22:33630 (AD-663113)
annihilation lifetime in electron gas, 21:24895
annihilation lifetime in metals, effects of temperature and vacancies on, (E/T), 23:48725
annihilation lifetime spectra of, methods for data reduction in analysis of, 22:29193

annihilation lifetime spectra, computer programs for data reduction in analysis of, 25:16794 (NYO-3661-34)
annihilation lifetime spectrum in non-condensed materials, fast coincidence time-to-amplitude system for measurement of, 24:16918 (NYO-3661-27)
annihilation lifetimes of, 23:28936
annihilation of cosmic, gamma spectra from, (T), 22:36759 (N-68-22925)
annihilation of cosmic, gamma spectrum from, (T), 23:34293
annihilation of polarized, in nickel crystal in (110) direction, (E), 23:14648
annihilation of slow, in metals and ionic crystals, 25:46360 (CEA-Bib-175)
annihilation of, algorithm for solution of pair pulse spectra from, 22:11213
annihilation of, Doppler broadening in, 23:1202
annihilation of, equipment for measuring, 23:40616 (UCRL-18735, pp 5-80)
annihilation of, finite slit length error in angular correlation measurements of, 24:44371
annihilation of, lectures on, 22:13257
annihilation of, magnetic field effects on two-photon, 22:52495
annihilation of, resolution functions for cylindrical geometry for measuring two-photon, 23:7748
annihilation of, review of data on, 21:18420
annihilation of, slit-length corrections in gamma angular correlation measurements on, (T), 23:41945
annihilation of, study of chemisorption of various substances by, 25:18415
annihilation of, use as chemical probe, 25:127 (CONF-700915-1)
annihilation on electrons in ferromagnets, gamma angular distributions from, 22:5097
annihilation on germanium and silicon, electron momentum distributions from, 21:2323
annihilation on negative positronium ions, 22:31648
annihilation radiation from platinum, effects of electron irradiation and deformation on angular correlation of, 24:37212
annihilation radiation from zinc single crystals at 250°C, angular correlation of, (E), 22:49992
annihilation radiation in copper single crystals, sharp anisotropy induced by diffraction of, (E/T), 25:50020
annihilation radiation in plutonium at 4.2 to 623°K, angular correlation of, 25:11997
annihilation radiation of, angular correlation calculations from Hartree—Fock, orbitals for, 22:36733
annihilation rate in argon as function of density and electric field, (E), 23:32152
annihilation rate in argon, temperature dependence of, (E), 22:52533
annihilation rate in helium, electric field effects on, (E), 23:22891
annihilation rate in hydrogen molecules, (T), 25:19501
annihilation rate of, in solid and liquid metals, (E), 22:52532
annihilation rate of, method for computation of time-dependent, 22:2779 (NYO-3661-11)
annihilation rates in alkali metals, pressure dependence of, (E), 25:49455
annihilation rates in electron gas, calculation using bound-state concept, 24:6357
annihilation rates in lanthanides, calculations, 25:50016
annihilation rates in lanthanum and lithium hydrides, 25:13988
annihilation rates in metals, measurement of, 21:14969
annihilation spectra in metals, (E), 21:5082
annihilation spectra in oxides, 24:28087
annihilation spectra of, measurement using germanium (lithium) detector, (E), 22:31611
annihilation with electrons in > 10 solar mass stars, radiative corrections to, (T), 21:13318
annihilation with halogenide ions, (E), 22:49993
annihilation, determination of gap at Fermi surface of electron momentum distribution from, 21:13365
annihilation, electron momenta in solids and liquids from γ angular correlation studies in, 24:45010
annihilation, one-particle representation and many-body solution for, 22:31607
asymmetry from $\mu^+ \rightarrow e^+ + \tau +$ anti τ decay in hydrogen bubble chamber, (E), 23:49041
binding in atoms and molecules, self-consistent-field theory for, 24:23767
binding to hydrogen atoms, impossibility of, (T), 25:52628
book: Physical Chemistry of Positrons and Positronium (in Russian), 24:1274
book: Positron Annihilation, 22:13257
bound states in alkali halides, (E), 22:9073
capture by nuclei, neutrino emission in stars from, (T), 22:13106
channeling in crystals at ultrarelativistic energies, theory, 25:38545
channeling in gold single-crystal films, (E/T), 25:14418
channeling in monocrystals, (E/T), 24:32905
channeling in silicon and anthracene monocrystals at 247 keV, 25:9543
channeling in silicon single crystals at 16 to 28 MeV, bremsstrahlung spectra from, 24:37539
creation and annihilation of, in low-density relativistic plasma, (T), 25:45478
decay of heavy, $e^+ \rightarrow e^+ + 2\tau$/sub e/, (T), 22:44384 (IFVE-STF-67-57-K)
decay of heavy, $e^+ \rightarrow \mu^+ + \tau$, (T), 22:44384 (IFVE-STF-67-57-K)
decay of heavy, $e^+ \rightarrow \pi^+ + \tau$, (T), 22:44384 (IFVE-STF-67-57-K)
detection in coincidence with gamma radiation, equipment for measurement of, 22:51247
detection in coincidence with gamma rays, method for, 22:23273
detection of 2-GeV, using x-ray transition radiation in aluminum foils, 23:43592 (BNL-13906)
detection of high-energy, performance of lead fluoride Cherenkov detector for, 22:28122
detection of low-energy galactic, 24:17717
detection of relativistic, based on x-ray transition radiation, 23:43600
detection of, by annihilation γ rays from, 21:1768
detection of, design of coincidence annihilation-gamma scintillation detector for, 22:40359 (INP-605/PL)
detection of, development of total absorption shower cascade detectors for, 23:33399
detection of, response functions of silicon surface-barrier detectors for, 24:33875
detection of, scintillation response of thallium-activated sodium iodide crystals for, 21:10672
detection of, using paired scintillation counters with coincidence circuits, 24:29795
development of high-current source of, 21:29760
diffusion in helium gas, coincidence study of, 25:13987
diffusion in helium, delayed-coincidence measurements of, 24:23765
distribution in cascade showers, (T), 22:21919
dose distribution in water phantoms, 5, 10, and 15 MeV, 24:23206
dose distribution in water phantoms, isodose curves for 5 to 15 MeV, 25:55210
effects on semiconducting diamonds, 25:19769(T) (LIB/Trans-307)
emission from mica and polyethylene absorbers, 25:58681
emission from sodium-22 and aluminum-26 in lunar rocks, (E), 24:21528
emission from supernovae, (T), 25:6932
emission in μ^-, μ^+, π^-, π^+, and π^0 decay, formula for kinetic mass for, 22:29646
emission in $W^+ \rightarrow e^+ + \tau$ decay, angular and momentum distributions for, (T), 25:59413
emission probability determinations by coincidence method, statistical errors in, 21:42718
emission spectrum for, from tissues activated by high-energy α beams, 23:29508 (UCRL-18347, pp 155-70)
energy distribution from p + anti p at rest, (T), 21:33066
energy loss in nuclear emulsions at relativistic velocities, (E), 24:40234
energy losses in thin foils, effects of straggling on, (E), 23:1943
energy spectra and origin of cosmic, above 12 GeV, 21:37199
energy spectra of cosmic, between 12 and 210 MeV, near Fort Churchill, Canada, summer 1968, 24:30173 (N-70-20441)
equilibrium concentration in optically thin relativistic plasma, (T), 25:1207
equilibrium with electrons in magnetic fields, (T), 24:46866
existence of anomalous, upper limits for, (E), 22:26553
existence of heavy excited, from $\pi^+(K^+) \rightarrow e^+ + \tau$ decays, weak axial-vector coupling constant for, 21:42250
flux and spectrum above 12 GeV in primary cosmic radiation, (E), 21:37206
flux in cosmic radiation, (T), 22:43945
flux in primary cosmic radiation, (T), 24:4968
flux of low-energy, in the Galaxy, (T), 24:5011 (N-69-33435)
flux of primary cosmic, (T), 24:23831
g factor of, (E/T), 22:9080
g-factor for, measurement of, 23:21042
g-factor of free, CPT invariance in precision measurement of, (E), 25:12075
g-factor of free, polarimeter precision measurement of, (E), 24:3575
galactic intensity of cosmic-ray, (T), 22:9124
gravitational force on, measurement of, (E), 23:3820
Green function for, 24:37214
injection and accumulation in storage rings, methods for, 21:33826
injection into Cambridge synchrotron, system for multi-cycle, 21:23362 (CEAL-1035)
intensity of 1.6 to 36.4 MeV, in cosmic radiation, (E/T), 25:24972
interactions and properties of, historical review of, 23:5515
interactions anti τ/sub μ/ + $e^+ \rightarrow$ anti τ/sub e/ + μ^+, differential cross sections and μ^+ polarization from, 22:13725
interactions anti τ/sub μ/ + $e^+ \rightarrow$ anti τ/sub e/ + μ^+, μ polarization from, (T), 22:3321
interactions anti τ/sub μ/ + $e^+ \rightarrow$ anti τ/sub e/ + μ^+, two- and four-component theory for, 22:22376
interactions $e^+ + e^- \rightarrow e^+ + e^- + \pi^+ + \pi^-$, Feynman diagram model of, 25:56460
interactions $e^+ + e^- \rightarrow$ hadrons, experimental verification of C invariance in, 25:30926
interactions $e^+ + e^- \rightarrow \pi^0 + \gamma$, $\pi^0 \rightarrow \gamma + \gamma$, test of vector-meson dominance model in, 24:15509
interactions $e^+ + e^- \rightarrow \mu^+ + \mu^-$ in colliding beams, quantum electrodynamics breakdown in, (T), 23:23526 (LNF-69/1)
interactions $e^+ + e^- \rightarrow (2n+1)\pi$, test for ΔI less than or equal to 1 in, 22:46368
interactions $e^+ + e^- \rightarrow 2\gamma$ at 1 GeV, validity limit of quantum electrodynamics, 25:14520
interactions $e^+ + e^- \rightarrow 2\gamma$ at high energies, cross sections for, (T), 21:18955
interactions $e^+ + e^- \rightarrow 2\gamma$ at high energies, γ circular polarization in, (T), 22:13709
interactions $e^+ + e^- \rightarrow 2\gamma$, at high energies in colliding beams, quantum electrodynamics for polarization of finite particles in, 22:39318
interactions $e^+ + e^- \rightarrow 2\gamma$, experimental method for investigating, 21:42306
interactions $e^+ + e^- \rightarrow 2\gamma$, quantum electrodynamics predictions for, 22:48360
interactions $e^+ + e^- \rightarrow 2\pi$, inelastic and finite-width effects for, 24:12985
interactions $e^+ + e^- \rightarrow 2\pi^+ + 2\pi^-$, Veneziano model predictions for, (T), 24:52033
interactions $e^+ + e^- \rightarrow 3\gamma$ at high energies, spectra and angular distributions of photons in, (T), 23:3677
interactions $e^+ + e^- \rightarrow 3\gamma$, C nonconservation in, (E), 21:17023
interactions $e^+ + e^- \rightarrow 3\gamma$, quantum electrodynamics predictions for, 22:48360
interactions $e^+ + e^- \rightarrow 3\gamma$, test of quantum electrodynamic equation linearity from double-logarithmic asymptotics of, 23:36890
interactions $e^+ + e^- \rightarrow 3\pi$, inelastic and finite-width effects for, 24:12985
interactions $e^+ + e^- \rightarrow 3\pi$, method for deriving angular correlations in, 22:41774 (NP-17531)
interactions $e^+ + e^- \rightarrow 3\pi$, relation between amplitudes for $\pi^0 \rightarrow 2\gamma$, $\gamma + \gamma \rightarrow 3\pi$, and, 25:59357
interactions $e^+ + e^- \rightarrow 3\pi$, test for isotensor couplings in, 24:49395
interactions $e^+ + e^- \rightarrow 4\pi$ from threshold to 850 MeV, cross sections from vertex function for, 24:3636
interactions $e^+ + e^- \rightarrow 4\pi(5\pi)$ below 2 GeV, quasi-two-body enhancement of tails of rho, ω, and phi for total cross sections of, (T), 25:25366
interactions $e^+ + e^- \rightarrow A_1 + A_2$ in colliding beams, methods for determination of particle parity in, (T), 25:33642
interactions $e^+ + e^- \rightarrow A_1 + \pi$ in colliding beams, A_1rhoπ vertex and vector dominance for, 23:27782
interactions $e^+ + e^- \rightarrow A_1 + \pi$ in colliding beams, test of hard-pion current algebra models from predicted total cross sections and angular distributions for, (T), 25:17423
interactions $e^+ + e^- \rightarrow A_1 + \pi$, chiral SU(2) x SU(2) current-algebra predictions for, 25:33702
interactions $e^+ + e^- \rightarrow A_2 + \pi$, cross sections and polarization effects in, (T), 23:13058
interactions $e^+ + e^- \rightarrow$ anti N + N*, total cross section for, 23:49079
interactions $e^+ + e^- \rightarrow$ anti p + p, differential and total cross sections and modulus and phase of form factors of proton electric dipole moment from, (T), 25:12224
interactions $e^+ + e^- \rightarrow$ anti$\tau + \tau$, cross sections for, (T), 21:17095
interactions $e^+ + e^- \rightarrow$ antiparticle + particle in colliding beams, infrared corrections for, 22:11623
interactions $e^+ + e^- \rightarrow e^+ + e^- + 2\gamma$, angular distribution, energy spectra, and cross section for, 21:33651
interactions $e^+ + e^- \rightarrow e^+ + e^- + 2\gamma$, sandwich lead-scintillation counter study of luminosity in, (E), 24:6690 (LAL-1222)
interactions $e^+ + e^- \rightarrow e^+ + e^- + A^+ + A^-$, lower order of perturbation theory for cross section relation of $\gamma + \gamma \rightarrow A^+ + A^-$ interactions with, (T), 25:19938 (JINR-P2-5505)
interactions $e^+ + e^- \rightarrow e^+ + e^- + e^+ + e^- + e^+ + e^-$ at 1 to 10 GeV, cross sections for, 25:53052
interactions $e^+ + e^- \rightarrow e^+ + e^- + e^+ + e^-$ at 1 to 10 GeV, cross sections for, 25:53052
interactions $e^+ + e^- \rightarrow e^+ + e^- + e^+ + e^-$ at 2 x 510 MeV, cross section and angular distribution for, (E), 25:27994
interactions $e^+ + e^- \rightarrow e^+ + e^- + e^+ + e^-$, cross section for, (T), 25:36440
interactions $e^+ + e^- \rightarrow e^+ + e^- + \gamma + \gamma$, cross sections for π^0, eta, and eta' production in, 25:59389
interactions $e^+ + e^- \rightarrow e^+ + e^- + \gamma + \gamma$, proposal for experimental study of $\pi^0\gamma\gamma$, eta $\gamma\gamma$, and $X^0\gamma\gamma$ vertices from, 25:59253
interactions $e^+ + e^- \rightarrow e^+ + e^- + \gamma$ at 15 GeV (lab) and 600 and 4000 MeV (cm), bremsstrahlung spectrum from, (T), 21:18950
interactions $e^+ + e^- \rightarrow e^+ + e^- + \gamma$ in Adone storage ring, luminosity measurements from, 23:28208
interactions $e^+ + e^- \rightarrow e^+ + e^- + \gamma$, hard bremsstrahlung in, 25:53068
interactions $e^+ + e^- \rightarrow e^+ + e^-$ + hadrons, total cross sections for $\gamma + \gamma \rightarrow$ hadrons interactions from, 25:53081
interactions $e^+ + e^- \rightarrow e^- + e^+$ + K + anti K, contribution of Feynman diagrams for, 24:24291
interactions $e^+ + e^- \rightarrow e^+ + e^- + K^+ + K^-$ at 2 and 10 GeV, study of $\gamma\gamma$ interactions from, (E/T), 25:7607
interactions $e^+ + e^- \rightarrow e^+ + e^- + K^+ + K^-$, double-logarithmic approximation for cross sections for, 25:27997
interactions $e^+ + e^- \rightarrow e^+ + e^- + m\gamma$ at high energies, double-logarithmic approximation for bremsstrahlung cross sections for backward, (T), 25:59374
interactions $e^+ + e^- \rightarrow e^+ + e^- + m\pi^+ + m\pi^-$, soft-pion techniques, PCAC hypothesis, and current algebra for cross sections for, (T), 25:40925
interactions $e^- + e^- \rightarrow e^- + e^+ + \mu^- + \mu^- + \mu^+$, contribution of Feynman diagrams for, 24:24291
interactions $e^+ + e^- \rightarrow e^+ + e^- + \mu^+ + \mu^-$ at 1 to 10 GeV, cross sections for, 25:53052
interactions $e^+ + e^- \rightarrow e^- + e^+ + \mu^- + \mu^+$ at 2 and 10 GeV, study of $\gamma\gamma$ interactions from, (E/T), 25:7607
interactions $e^+ + e^- \rightarrow e^+ + e^- + \mu^+ + \mu^-$, double-logarithmic approximation for cross sections of, 25:27997
interactions $e^+ + e^- \rightarrow e^+ + e^- + \mu^-(\pi^-)(K^-) + \mu^+(\pi^+)(K^+)$ at 2 and 3 GeV, numerical calculations with two-photon exchange and double Williams—Weizsacker approximation for, 24:3566
interactions $e^+ + e^- \rightarrow e^+ + e^- + \pi^+ + \pi^-$ at 2 and 10 GeV, study of $\gamma\gamma$ interactions from, (E/T), 25:7607
interactions $e^+ + e^- \rightarrow e^- + e^+ + \pi^- + \pi^+$, contribution of Feynman diagrams for, 24:24291
interactions $e^+ + e^- \rightarrow e^+ + e^- + \pi^+ + \pi^-$, double-logarithmic approximation for cross sections of, 25:27997
interactions $e^+ + e^- \rightarrow e^+ + e^- + \pi^+(K^+) + \pi^-(K^-)$ in colliding beams, π and K pair production and amplitudes and phases for $\gamma + \gamma \rightarrow \pi^+ + \pi^-$ interactions in, (T), 25:53048 (DESY-71/30)
interactions $e^+ + e^- \rightarrow e^+ + e^-$ at 1.4 to 2.4 GeV, test of quantum electrodynamics from, (E/T), 25:38636

interactions $e^+ + e^- \to e^+ + e^-$ at 1.4 to 2.4 GeVin colliding beams, test of quantum electrodynamics from cross sections of, (E), 25:41058 (LNF-71/13)
interactions $e^+ + e^- \to e^+ + e^-$ at 1.5 to 2.4 GeV, cross sections for Bhabha, (E), 24:47357 (LNF-70/38, pp 3-20)
interactions $e^+ + e^- \to e^+ + e^-$ at 2 x 0.8 to 2 x 1.0 GeV at wide angles, search for J/super PC/ = 1^{--} neutral bosons and test of quantum electrodynamics in, (E), 24:47355 (LNF-70/36)
interactions $e^+ + e^- \to e^+ + e^-$ at 2 x 510 MeV, test of quantum electrodynamics from spark chamber and scintillation counter study of cross sections for, (E), 24:5331 (LAL-1221)
interactions $e^+ + e^- \to e^+ + e^-$ at 2 x 510 MeV, test of quantum electrodynamics from, (E/T), 24:30486
interactions $e^+ + e^- \to e^+ + e^-$ at 2 x 590 to 2 x 670 MeV, efficiency and background for, (E), 25:47709 (NP-18932)
interactions $e^+ + e^- \to e^+ + e^-$ at high energies, validity of quantum electrodynamics from absolute cross section of, (E), 24:49569 (LAL-1235)
interactions $e^+ + e^- \to e^+ + e^-$ in Adone storage ring, luminosity measurements from, 23:28208
interactions $e^+ + e^- \to e^+ + e^-$ in colliding beams, quantum electrodynamics breakdown in, (T), 23:23526 (LNF-69/1)
interactions $e^+ + e^- \to e^+ + e^-$, frame-dependence of cross sections for, 22:26591 (JINR-P2-3590, pp 81-5)
interactions $e^+ + e^- \to e^- + e^+$, magnetic spectrometer for measuring Bhabha scattering parameter for, 22:16900
interactions $e^+ + e^- \to e^- + e^+$, proposed for Adone experiment with charge recognition for, 22:48205 (ISS-68/20)
interactions $e^+ + e^- \to e^+ + e^-$, quantum electrodynamics test from spark chamber study of Bhabha cross section for, (E), 24:6690 (LAL-1222)
interactions $e^+ + e^- \to e^+ + e^-$, S-matrix element for, 25:9740
interactions $e^+ + e^- \to e^+ + e^-$, testing predictions of quantum electrodynamics by, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^- \to e^+ + e^-$, use in determining validity of quantum electrodynamics and electron nature of mesons (μ), 22:11576
interactions $e^+ + e^- \to e^+ + W^- + \tau$, total cross sections for colliding-beam, (T), 24:24270
interactions $e^+ + e^- \to e^+ + W^- + \tau$, $W^- \to \mu^-$ + anti τ, effect of W^- polarization on μ^- angular distribution in, 23:25546
interactions $e^+ + e^- \to e^+ + W^- + \tau$/sub e/ in colliding beams, asymmetry in, (T), 22:24586
interactions $e^+ + e^- \to e^- + W^+ + \tau$/sub e/ in colliding beams, asymmetry in, (T), 22:24586
interactions $e^+ + e^- + e^+$, binding energy calculation for, 21:33643
interactions $e^+ + e^- \to e^+(e^-) + e^-(e^+)$ and $e^+ + e^- \to \mu^+(\mu^-) + \mu^-(\mu^+)$, test of crossing symmetry in quantum electrodynamics from, 25:53004
interactions $e^+ + e^- \to$ eta + γ, effect of rho° and ω° interference on cross sections for, (T), 22:24606
interactions $e^+ + e^- \to$ eta + γ, resonant cross sections for, (T), 21:11752
interactions $e^+ + e^- \to$ eta + γ, vector-dominance model and SU(3) symmetry for cross sections of, 24:5275
interactions $e^+ + e^- \to$ eta + π^0, C invariance in, 24:40442
interactions $e^+ + e^- \to$ eta (X^0) + γ, eta (X^0) $\to 2\gamma$ in colliding beams, gauge-field and quark-field algebra for test of vector dominance model for, 24:28506 (LNF-69/64)
interactions $e^+ + e^- \to$ eta°(X^0) + γ in vector meson region, vector dominance model with linear and quadratic mixing of eta and X^0 for cross sections for, (T), 25:59377
interactions $e^+ + e^- \to \gamma$ + final state, radiative corrections and cross sections for, 25:22742
interactions $e^+ + e^- \to \gamma + \gamma + \gamma + \gamma$, cross sections for, (T), 24:30478 (N-69-10274)
interactions $e^+ + e^- \to \gamma + \gamma$ at 0.025 to 5.46 eV in negative hydrogen ions in metal hydrides, angular correlation for, (T), 21:44305
interactions $e^+ + e^- \to \gamma + \gamma$ at 1.4 to 2.4 GeV, test of quantum electrodynamics from, 25:47712
interactions $e^+ + e^- \to \gamma + \gamma$ at 2 x 0.7 to 2 x 1.2 GeV, test of quantum electrodynamics from cross sections, angular distributions, and luminosity of, (E), 25:45796 (LNF-71/16)
interactions $e^+ + e^- \to \gamma + \gamma$ under astrophysical conditions, γ spectra from, (T), 22:20175 (NP-17317)
interactions $e^+ + e^- \to \gamma + \gamma$, calculation of matrix elements with anomalous magnetic moment and polarization effects for, 22:20177
interactions $e^+ + e^- \to \gamma + \gamma$, existence of L particle in cross sections for, (E), 23:25493 (LNF-68/63)
interactions $e^+ + e^- \to \gamma + \gamma$, proposed experiment for, 21:27288 (LNF-66/56, pp 25-36)
interactions $e^+ + e^- \to \gamma + \gamma$, testing predictions of quantum electrodynamics by, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^- \to \gamma + \gamma$, use in determining validity of quantum electrodynamics and electron nature of mesons (μ), 22:11576
interactions $e^+ + e^- \to \gamma$ + pseudoscalar mesons, properties of annihilation cross sections of polarized, 21:25254(T) (SLAC-Trans-63)
interactions $e^+ + e^- \to \gamma$ at very high energies, total bremsstrahlung spectrum for, (T), 22:13704
interactions $e^+ + e^- \to \gamma$ in eight-dimensional space, (T), 22:5535
interactions $e^+ + e^- \to$ hadrons + particles, light-cone analysis for scaling behavior of inclusive, 25:47780
interactions $e^+ + e^- \to$ hadrons at high energies, asymptotic behavior of total cross section for, 21:29486
interactions $e^+ + e^- \to$ hadrons at high energies, asymptotic behavior of total cross section for, (T), 22:7466 (ITEF-493)
interactions $e^+ + e^- \to$ hadrons at high energies, constraints on, 24:28511
interactions $e^+ + e^- \to$ hadrons at high energies, neutral pseudoscalar theory for, 24:47402
interactions $e^+ + e^- \to$ hadrons at high energies, statistical model for, (T), 24:32989
interactions $e^+ + e^- \to$ hadrons at high energies, total annihilation cross sections for, (T), 22:1408
interactions $e^+ + e^- \to$ hadrons in parton model, asymptotic behavior of cross sections for, 25:40929
interactions $e^+ + e^- \to$ hadrons, bound on hadronic vacuum polarization contribution from, (T), 23:42595
interactions $e^+ + e^- \to$ hadrons, composition, energy distribution, and multiplicity of secondaries from, 25:25374
interactions $e^+ + e^- \to$ hadrons, current algebra theory for sum rules and asymptotic behavior of, 24:24287
interactions $e^+ + e^- \to$ hadrons, effect of finiteness of electromagnetic self-mass in, 24:8597
interactions $e^+ + e^- \to$ hadrons, Sugawara model and total cross sections for, 23:46650
interactions $e^+ + e^- \to$ hadrons, Sugawara model for high-energy behavior of cross sections for, 24:8713
interactions $e^+ + e^- \to$ hadrons, vector-meson field theory and PCAC for, 21:40168
interactions $e^+ + e^- \to$ hadrons, Veneziano-like model for, 24:32982
interactions $e^+ + e^- \to$ K + anti K above 1 GeV, test of vector-dominance hypothesis from, 24:12983
interactions $e^+ + e^- \to$ K + anti K, inelastic and finite-width effects for, 24:12985
interactions $e^+ + e^- \to$ K + K total cross section for, (T), 25:12141
interactions $e^+ + e^- \to K^0$ + anti K^0, CP violation in, (T), 23:18838(T) (BNL-tr-249)
interactions $e^+ + e^- \to K^0$ + anti K^0, cross section for phi contribution to, (T), 21:11752
interactions $e^+ + e^- \to K^0$ + anti K^0, vacuum polarization effects in, (E/T), 23:44623
interactions $e^+ + e^- \to K_1^0 + K_2^0$ at 510 MeV, experiment preparation for, 21:27286 (LNF-66/56, pp 3-13)
interactions $e^+ + e^- \to K^+ + K^-$ at 350 to 750 MeV, experiment preparation for, 21:27286 (LNF-66/56, pp 3-13)
interactions $e^+ + e^- \to K^+ + K^-$, cross section for phi contribution to, (T), 21:11752
interactions $e^+ + e^- \to K^+ + K^-$, efficiency of spark chambers for studying, 23:38313 (LNF-69/16)
interactions $e^+ + e^- \to K^+(\pi^+) + K^-(\pi^-)$ near resonant masses, electron bremsstrahlung effects on cross sections of, (T), 25:40915 (LNF-70/51)
interactions $e^+ + e^- \to l^{*+} + l^{*-}$, search for heavy leptons in, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^- \to \Lambda$ + anti Λ, Λ magnetic moment effects on, (T), 24:20119
interactions $e^+ + e^- \to$ mesons cross section for, (T), 25:17450
interactions $e^+ + e^- \to$ mesons, one-photon exchange approximation for, 24:15519
interactions $e^+ + e^- \to$ mesons, vector-meson dominance model for, 24:15519
interactions $e^+ + e^- \to m\gamma$ at high energies, twice-logarithmic asymptotic behavior of amplitude of, 24:18113 (ITF-69-88)
interactions $e^+ + e^- \to m\gamma$, double-logarithmic asymptotics of, (T), 24:52016
interactions $e^+ + e^- \to m\pi^+ + m\pi^- + \gamma$, soft-pion techniques, PCAC theory, and current algebra for cross sections for, (T), 25:40925
interactions $e^+ + e^- \to m\pi^+ + m\pi^- + n\pi^0$ at 1.6 to 2.0 GeV, (E), 24:47359 (LNF-70/38, pp 31-43)
interactions $e^+ + e^- \to \mu + e$ at 0.8 to 1 GeV, test of validity of leptonic selection rules from colliding-beam, (E), 25:14515
interactions $e^+ + e^- \to \mu^+ + \mu^- + \gamma$, cross sections for, (T), 21:33656
interactions $e^+ + e^- \to \mu^+ + \mu^- + \gamma$, invariant tensor integration for polarization in, (T), 23:27781
interactions $e^+ + e^- \to \mu^+ + \mu^- + \gamma$, nonlocal interaction theory with polarization for, 22:9532
interactions $e^+ + e^- \to \mu^+ + \mu^- + \gamma$, properties of annihilation cross sections of polarized, 21:25254(T) (SLAC-Trans-63)
interactions $e^+ + e^- \to \mu^- + \mu^+ + \pi^0$, analysis of, (T), 21:25256
interactions $e^+ + e^- \to \mu^+ + \mu^-$ at 1.6 to 2 GeV, test of e—μ universality and quantum electrodynamics from, (E), 24:47358 (LNF-70/38, pp 21-9)
interactions $e^+ + e^- \to \mu^+ + \mu^-$ at 2 x 290 to 2 x 352 MeV, test of quantum electrodynamics from spark chamber study of, (E), 24:6690 (LAL-1222)
interactions $e^+ + e^- \to \mu^+ + \mu^-$ at high energies in colliding beams, quantum electrodynamics for polarization of finite particles in, 22:39318
interactions $e^+ + e^- \to \mu^- + \mu^+$ at high energies, double-logarithmic asymptotics for backward, (T), 21:44309
interactions $e^+ + e^- \to \mu^- + \mu^+$ at high energies, unified model for heavy vector boson interaction effects in, 24:18126
interactions $e^+ + e^- \to \mu^+ + \mu^-$ in Adone, 22:11826
interactions $e^+ + e^- \to \mu^+ + \mu^-$ in colliding beams, calculation of radiative corrections for, 22:11622
interactions $e^+ + e^- \to \mu^+ + \mu^-$ near resonant masses, electron bremsstrahlung effects on cross sections of, (T), 25:40915 (LNF-70/51)
interactions $e^+ + e^- \to \mu^+ + \mu^-$, asymptotic behavior of amplitude and cross section for forward, 21:40280
interactions $e^+ + e^- \to \mu^- + \mu^+$, J-plane singularities in amplitude of, 23:36887
interactions $e^+ + e^- \to \mu^+ + \mu^-$, radiative corrections to colliding-beam, (T), 21:11752
interactions $e^+ + e^- \to \mu^+ + \mu^-$, testing predictions of quantum electrodynamics by, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^- \to \mu^+ + \mu^-$, tests of anomalously large leptonic weak interactions in, (T), 24:45463
interactions $e^+ + e^- \to \mu^+ + \mu^-$, use in determining validity of quantum electrodynamics and electron nature of mesons (μ), 22:11576
interactions $e^+ + e^- \to \mu^+(K^+) + \mu^-(K^-)$ at 2 x 590 to 2 x 670 MeV, efficiency and background for, (E), 25:47709 (NP-18932)
interactions $e^+ + e^- \to$ N + anti N, production of S(1727), S(1414), d(1382), and d(1855) in colliding-beam, (T), 25:59358
interactions $e^+ + e^- \to$ N + anti N(anti Δ), local current algebra sum rules for nucleon isovector radius and slope at threshold for cross sections of, 24:24267
interactions $e^+ + e^- \to$ N + hadrons in dispersion-theoretic models, Bjorken limit and scaling behavior of structure functions for, 25:17430
interactions $e^+ + e^- \to N^*$ + anti N^*, differential cross sections for colliding-beam, (T), 22:29667
interactions $e^+ + e^- \to n\gamma$ (n greater than or equal to 3), double logarithmic asymptotics and cross sections for, 23:30727
interactions $e^+ + e^- \to n\gamma$ at high energies, quantum electrodynamics for, 24:10816
interactions $e^+ + e^- \to \tau$ + anti $\tau + \gamma$, cross section for, 21:17082
interactions $e^+ + e^- \to \tau$ + anti $\tau + \gamma$, tests of anomalously large leptonic weak interactions in, (T), 24:45463
interactions $e^+ + e^- \to \tau$ + anti τ at high energies, calculations using intermediate vector mesons for cross sections of, 22:3348
interactions $e^+ + e^- \to \tau$ + anti τ in stars, neutrino energy density in universe from, 24:15539
interactions $e^+ + e^- \to \tau$ + anti τ, (T), 21:40179
interactions $e^+ + e^- \to \tau$ + anti τ, four-fermion weak interaction theory for, 21:18967
interactions $e^+ + e^- \to \tau$ + anti τ, neutrino-pair exchange in, 22:20205
interactions $e^+ + e^- \to \tau$ + anti τ, radiative corrections to, 21:35293
interactions $e^+ + e^- \to \tau$ + anti τ, stellar energy loss from, 22:50355
interactions $e^+ + e^- \to \tau$/sub e/ + anti τ/sub e/, radiative corrections for differential and total cross sections for, (T), 23:15019
interactions $e^+ + e^- \to \omega \to$ eta + γ, resonant cross section for, (T), 21:11752
interactions $e^+ + e^- \to \omega + \pi$ at 1.4 to 2.4 GeV, cross sections for new vector meson production in, 25:33629
interactions $e^+ + e^- \to \omega \to \pi^+ + \pi^- + \pi^0$ in colliding beams, (E/T), 24:30427 (CONF-690521-, pp 373-412)
interactions $e^+ + e^- \to \omega^0 \to \pi^+ + \pi^- + \pi^0$, partial width of $\omega^0 \to e^+ + e^-$ from, (E), 23:14948
interactions $e^+ + e^- \to \omega^0$, parameters for, (E), 23:7075 (LAL-1202)
interactions $e^+ + e^- \to$ p + anti p + ..., form factor effects on total cross section for, 23:25581 (JINR-E2-4370)
interactions $e^+ + e^- \to$ p + anti p in renormalizable theory of weak interactions, total cross sections for, (T), 25:53060
interactions $e^+ + e^- \to$ p + anti p, scaling law for proton form factors for, 25:59361
interactions $e^+ + e^- \to$ p + anti p, use of Adone storage ring for determining baryon form factors from, 22:11828
interactions $e^+ + e^- \to$ p + anything, hadron electrodynamics in resonance model for, 25:59386
interactions $e^+ + e^- \to$ p + hadrons, parton model for deep-inelastic, 24:37686
interactions $e^+ + e^- \to$ phi $\to$ eta + γ, resonant cross section for, (T), 21:11752
interactions $e^+ + e^- \to$ phi + γ, cross sections and polarization parameters for phi in, (T), 24:49377
interactions $e^+ + e^- \to$ phi $\to K^0$ + anti K^0, measurement of CP violating parameters in $K^0 \to 2\pi$ and $K^0 \to \pi + l + \tau$ decays from, 23:39772
interactions $e^+ + e^- \to$ phi $\to K^+ + K^-$ in colliding beams, cross sections for, (E), 25:47708 (LAL-1247)
interactions $e^+ + e^- \to$ phi $\to K^+ + K^-$, (E), 24:42863
interactions $e^+ + e^- \to$ phi $\to$ K/sub s/° + K/sub L/° in colliding beams, (E/T), 24:30427 (CONF-690521-, pp 373-412)
interactions $e^+ + e^- \to$ phi $\to \mu^+ + \mu^-$ at 2 x 510 to 2 x 670 MeV, determination of limit of validity of quantum electrodynamics from cross sections for, (E), 25:47934 (NP-18931)
interactions $e^+ + e^- \to$ phi + π at 1.4 to 2.4 GeV, cross section for new vector meson production in, 25:33629
interactions $e^+ + e^- \to$ phi $\to \pi^- + \pi^+ + \gamma$, conformal symmetry for, 25:59542
interactions $e^+ + e^- \to$ phi at 2 x 508 to 2 x 514 MeV, resonance parameters for, (E), 25:47710 (NP-18933)
interactions $e^+ + e^- \to$ phi at 2 x 510 MeV, phi width and total cross sections for, (E), 25:22661
interactions $e^+ + e^- \to$ phi in colliding beams, cross sections for, (E), 25:47708 (LAL-1247)
interactions $e^+ + e^- \to$ phi, optical spark chamber and scintillation counter study of total width, cross section, and branching ratio for, (E), 24:6690 (LAL-1222)
interactions $e^+ + e^- \to$ phi, parameters of, (E), 23:7074 (LAL-1199)
interactions $e^+ + e^- \to$ phi, phi $\to K^0$ + anti K^0 and phi $\to 3\pi$, partial width of phi from, (E), 24:37599 (LAL-1231)
interactions $e^+ + e^- \to$ phi, phi $\to K^+ + K^-$, phi electromagnetic width from spark chamber and scintillation counter study of, (E), 24:37600 (LAL-1233)
interactions $e^+ + e^- \to$ phi, phi decay branching ratios and partial widths from, (E), 23:14949

interactions $e^+ + e^- \to$ pseudoscalar mesons and photons, cross sections for, (T), 21:33656
interactions $e^+ + e^- \to \pi + A_1$, asymptotic behavior of cross sections for, 25:47851
interactions $e^+ + e^- \to \pi + A_1$, π and A_1 form factors in, 25:1511
interactions $e^+ + e^- \to \pi + \omega$ above 1 GeV, test of vector-dominance hypothesis from, 24:12983
interactions $e^+ + e^- \to \pi +$ phi above 1 GeV, test of vector-dominance hypothesis from, 24:12983
interactions $e^+ + e^- \to \pi + \pi$ above 1 GeV, test of vector-dominance hypothesis from, 24:12983
interactions $e^+ + e^- \to \pi + \pi$ in Adone, proposed experiment for rho^0 production from, 21:27287 (LNF-66/56, pp 15-24)
interactions $e^+ + e^- \to \pi + \pi$ in jet model, cross sections for annihilation, 25:25378
interactions $e^+ + e^- \to \pi + \pi$, shape of rho in, 25:40990
interactions $e^+ + e^- \to \pi + \pi$, total cross section for, (T), 25:12141
interactions $e^+ + e^- \to \pi +$ rho above 1 GeV, test of vector-dominance hypothesis from, 24:12983
interactions $e^+ + e^- \to \pi^0 + e^+ + e^-$, cross sections for, 24:42918
interactions $e^+ + e^- \to \pi^0 + \gamma$ in vector meson region, vector dominance model for cross sections for, (T), 25:59377
interactions $e^+ + e^- \to \pi^0 + \gamma$, asymptotic behavior of highly virtual photons from, 25:25379
interactions $e^+ + e^- \to \pi^0 + \gamma$, cross sections for, 24:42918
interactions $e^+ + e^- \to \pi^0 + \gamma$, effect of rho^0 and ω^0 interference on cross section for, (T), 22:24606
interactions $e^+ + e^- \to \pi^0 + \gamma$, proposed experiment for, 21:27288 (LNF-66/56, pp 25-36)
interactions $e^+ + e^- \to \pi^0 + \gamma$, $\pi^0 \to 2\gamma$ in colliding beams, gauge-field and quark-field algebra for test of vector meson dominance model for, 24:28506 (LNF-69/64)
interactions $e^+ + e^- \to \pi^0 + \gamma$, resonant cross sections for, (T), 21:11752
interactions $e^+ + e^- \to \pi^0 + \gamma$, rho$^0 \to \pi^0 + \gamma$ decay width and rho—ω interference from, (T), 23:25553
interactions $e^+ + e^- \to \pi^0 + \gamma$, twice logarithmic approximation with soft photon radiation for radiative corrections to, 24:37712
interactions $e^+ + e^- \to \pi^0 + \omega$, $\omega \to \pi^+ + \pi^- + \pi^0$, ωrhoπ coupling constant from, 24:10713
interactions $e^+ + e^- \to \pi^0 +$ rho^0, asymptotic behavior of highly virtual photons from, 25:25379
interactions $e^+ + e^- \to \pi^0$(eta) $+ \gamma$ at 2 x 350 to 2 x 400 MeV, quark model for rho^0 and ω interference in cross section of, 22:34897 (NP-17476)
interactions $e^+ + e^- \to \pi^+ + \pi^- + 2\pi^0$, (T), 24:18108 (CONF-690330-, pp 36-46)
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$ in storage rings, study of even-charge hadronic systems from, (T), 25:14621
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$, (T), 24:18108 (CONF-690330-, pp 36-46)
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$, contribution of epsilon resonance to, (T), 24:49371 (RLO-2041-42)
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$, contribution of epsilon (760) to, (T), 25:7598
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$, γ circular polarization and phase of π form factor from, 23:30728
interactions $e^+ + e^- \to \pi^+ + \pi^- + \gamma$, $\pi + \pi$ interactions and charge conjugation violating effects in, (E), 24:37602 (LNF-69/77)
interactions $e^+ + e^- \to \pi^- + \pi^+ + \gamma$, $\pi\pi$ states of even charge conjugation from, 24:37703
interactions $e^+ + e^- \to \pi^+ + \pi^- + \pi^0$ in colliding beams, spark chamber and scintillation counter study of cross sections and ω production in, (E), 24:20056 (LAL-1229)
interactions $e^+ + e^- \to \pi^+ + \pi^- + \pi^0$ with ωrhoπ coupling, cross section for, (T), 21:11752
interactions $e^+ + e^- \to \pi^+ + \pi^- + \pi^0$, final state interactions in, 23:8773
interactions $e^+ + e^- \to \pi^+ + \pi^- + \pi^0$, proposed test for isotensor current from, (E/T), 24:49368 (NYO-4076-8)
interactions $e^+ + e^- \to \pi^+ + \pi^- + \pi^0$, test for presence of isotensor current from, 24:49391
interactions $e^+ + e^- \to \pi^+ + \pi^-$ and $e^+ + e^- \to \pi^0 + \gamma$, coherent rho—$\omega$ interference in, 22:48271
interactions $e^+ + e^- \to \pi^+ + \pi^-$ angular and energy distributions for, (T), 25:56459
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 1.6 to 2.0 GeV, (E), 24:47359 (LNF-70/38, pp 31-43)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 2 x 290 to 2 x 470 MeV, ω—rho interference in, (E), 23:44582
interactions $e^+ + e^- \to \pi^- + \pi^+$ at 2 x 290 to 2 x 510 MeV, position and shape of rho from colliding-beam, (E), 21:46460
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 2 x 290 to 2 x 510 MeV, preliminary results of spark chamber study of cross sections for, (E), 22:22275 (CONF-670923-, pp 376-86)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 350 to 750 MeV, experiment preparation for, 21:27286 (LNF-66/56, pp 3-13)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 775 MeV, scintillation counter and spark chamber study of, (E), 22:7419 (LAL-1181)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at 775 MeV, scintillation counter and spark chamber study of cross section for, (E), 22:9499
interactions $e^+ + e^- \to \pi^+ + \pi^-$ at energies around rho^0 mass, (E), 23:7076 (LAL-1203)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ in colliding beams, feasibility for study of angular distribution charge asymmetry at f-mass energy in, (E), 25:33519
interactions $e^+ + e^- \to \pi^+ + \pi^-$ in colliding beams, quantum electrodynamics breakdown in, (T), 23:23526 (LNF-69/1)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ in colliding beams, spark chamber and scintillation counter study of rho^0—ω interference in, (E), 24:20056 (LAL-1229)
interactions $e^+ + e^- \to \pi^+ + \pi^-$ in renormalizable theory of weak interactions, total cross sections for, (T) , 25:53060
interactions $e^+ + e^- \to \pi^- + \pi^-$ in rho^0 region, π electromagnetic form factor from cross section for, (E), 23:14947
interactions $e^+ + e^- \to \pi^+ + \pi^-$ near rho mass, vacuum polarization corrections for amplitude of, 24:42911
interactions $e^+ + e^- \to \pi^+ + \pi^-$ π electromagnetic form factor in Veneziano model for, 25:7605
interactions $e^+ + e^- \to \pi^+ + \pi^-$ rho—ω interference from production in, (T), 24:40310
interactions $e^+ + e^- \to \pi^+ + \pi^-$, asymptotic behavior of total cross sections for, 24:20112
interactions $e^+ + e^- \to \pi^+ + \pi^-$, cross section for intermediate rho^0 contribution to, (T), 21:11752
interactions $e^+ + e^- \to \pi^+ + \pi^-$, current algebra prediction of total cross section for, 23:36922
interactions $e^+ + e^- \to \pi^+ + \pi^-$, current-algebra prediction for cross section for, 22:39348
interactions $e^+ + e^- \to \pi^+ + \pi^-$, dispersion relation and sum rules for π form factor in, 23:32662
interactions $e^+ + e^- \to \pi^- + \pi^+$, dispersion sum rules for π form factor from, 23:16956
interactions $e^+ + e^- \to \pi^+ + \pi^-$, effect of higher-mass vector mesons on π form factor in, (T), 24:40376
interactions $e^+ + e^- \to \pi^+ + \pi^-$, effective range resonance formula for, (E/T), 23:39593 (NYO-3399-193)
interactions $e^+ + e^- \to \pi^+ + \pi^-$, efficiency of spark chambers for studying, 23:38313 (LNF-69/16)
interactions $e^+ + e^- \to \pi^+ + \pi^-$, infrared radiative corrections for production of ω, phi, and rho in, 23:21074
interactions $e^+ + e^- \to \pi^+ + \pi^-$, mass and width of rho from, 24:8590
interactions $e^+ + e^- \to \pi^+ + \pi^-$, ω—phi mixing angle and rho—ω interference in, 24:18136
interactions $e^+ + e^- \to \pi^+ + \pi^-$, parameters for $\omega \to 2\pi$ and rho $\to 2\pi$ interference in, 24:10744 (COO-264-531)
interactions $e^+ + e^- \to \pi^+ + \pi^-$, parametrizations of π form factor for rho mass and width in, (E/T), 23:32657
interactions $e^+ + e^- \to \pi^+ + \pi^-$, π charge structure and $\pi\pi$ phase shift from, 22:24600
interactions $e^+ + e^- \to \pi^+ + \pi^-$, π form factor from, 22:48289
interactions $e^+ + e^- \to \pi^+ + \pi^-$, radiative corrections to, 25:22742
interactions $e^+ + e^- \to \pi^+ + \pi^-$, relativistic resonance formula for analysis of, 24:24274
interactions $e^+ + e^- \to \pi^+ + \pi^-$, rho mass, width, and branching ratio from, (E/T), 24:15446
interactions $e^+ + e^- \to \pi^+ + \pi^-$, rho—$\omega$ interference in, 24:32990
interactions $e^+ + e^- \to \pi^+ + \pi^-$, rho—$\omega$ interference in, 24:1552
interactions $e^+ + e^- \to \pi^+ + \pi^-$, spark chamber study of cross sections for width of meson (rho^0) in, (E), 24:18062 (CONF-690330-, pp 15-34)
interactions $e^+ + e^- \to \pi^+ + \pi^-$, SU(2) x SU(2) chiral symmetry for rho$\pi\pi$ coupling from, (E/T), 22:35055
interactions $e^+ + e^- \to \pi^+ + \pi^-$, sum rules for, 25:38700
interactions $e^+ + e^- \to \pi^+ + \pi^-$, two-photon-exchange contribution to, (T), 21:11752
interactions $e^+ + e^- \to \pi^+ + \pi^-$, upper and lower bounds on π form factor from, 25:53069
interactions $e^+ + e^- \to \pi^+ + \pi^-$, upper limit for phi production in, (E), 25:12074
interactions $e^+ + e^- \to \pi^+ + \pi^-$, vacuum polarization effects of hadrons in rho - ω interference in, (T), 23:8781
interactions $e^+ + e^- \to \pi^+ + \pi^-$, vacuum polarization effects in, (E/T), 23:44623
interactions $e^+ + e^- \to$ rho $\to$ eta $+ \gamma$, resonant cross section for, (T), 21:11752
interactions $e^+ + e^- \to$ rho + eta at 1.4 to 2.4 GeV, cross section for new vector meson production in, 25:33629
interactions $e^+ + e^- \to$ rho + eta' at 1.4 to 2.4 GeV, cross section for new vector meson production in, 25:33629
interactions $e^+ + e^- \to$ rho + f, test of tensor-meson dominance in, 25:53065
interactions $e^+ + e^- \to$ rho $\to \pi^+ + \pi^-$ at 600 to 1000 MeV, rho parameters and cross sections from, (E), 23:18784
interactions $e^+ + e^- \to$ rho $\to \pi^+ + \pi^-$, cross sections for photoproduction of rho from, 22:9554
interactions $e^+ + e^- \to$ rho' at 1.4 to 2.4 GeV, cross sections for new vector meson production in, 25:33629
interactions $e^+ + e^- \to$ rho$^0 \to \pi^+ + \pi^-$ in colliding beams, (E/T), 24:30427 (CONF-690521-, pp 373-412)
interactions $e^+ + e^- \to$ rho^0, ω^0, and phi^0, vector meson dominance predictions for, (E/T), 23:14946
interactions $e^+ + e^- \to$ rho^0(ω^0) $+ \gamma$, cross sections and polarization parameters for rho^0 and ω^0 in, (T), 24:49377
interactions $e^+ + e^- \to$ rho$^-$ + rho$^+$, electromagnetic form factors from, (T), 22:13711
interactions $e^+ + e^- \to W^- + e^+ + \tau$ at very high energies in colliding beams, total cross sections for, (T), 25:33600
interactions $e^+ + e^- \to W^+ + W^-$, identification of intermediate vector bosons in, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^- \to W^+(W^-) + \mu^-(\mu^+) +$ anti $\tau(\tau)$ in colliding beams, total cross sections for, (T), 25:33598
interactions $e^+ + e^- \to X^0(960) +$ rho$^0(\gamma)$ in colliding beams, determination of spin and parity of $X^0(960)$ from, (T), 25:53063
interactions $e^+ + e^-$ (arbitrarily polarized), photon emission from, (T), 21:27328
interactions $e^+ + e^-$ above 2 x 1 GeV, energy and angular dependence of cross sections for meson production by two-photon annihilation in, (T), 24:49388
interactions $e^+ + e^-$ at 0 to 500 MeV at large angles in colliding beams, test and cut-off of quantum electrodynamics from cross sections and luminosity of Bhabha, (E), 25:53296
interactions $e^+ + e^-$ at 0.6 to 15 GeV, computer algorithms for Dirac algebra for relativistic wide-angle bremsstrahlung spectrum in, 23:25561
interactions $e^+ + e^-$ at 0.7 x 2 to 1.2 x 2 GeV, spark chamber and scintillation counter study of Bhabha scattering and μ pair and hadron production in, (E), 25:9621 (NP-18581)
interactions $e^+ + e^-$ at 0.8 to 1 GeV, production of heavy leptons in, (E), 25:14517
interactions $e^+ + e^-$ at 0.8 to 1.0 GeV, track analysis and time distribution of elastic, (E), 25:12073
interactions $e^+ + e^-$ at 1.4 to 2.4 GeV in colliding beams, new vector meson production in cross sections for hadron production in, (T), 25:40917 (LNF-71/8)
interactions $e^+ + e^-$ at 1.4 to 2.4 GeV, analysis of elastic, (E), 25:59250
interactions $e^+ + e^-$ at 1.4 to 2.4 GeV, cross sections for multiple particle production in, (E), 25:59251
interactions $e^+ + e^-$ at 1.52 to 2.62 MeV, differential cross section for, (E), 22:46314
interactions $e^+ + e^-$ at 1.6 to 2 GeV, multiplicities and total cross section for multiple particle production in, (E), 25:12143
interactions $e^+ + e^-$ at 1.6 to 2.0 GeV, peaking approximation in radiative corrections to, (E), 25:47717
interactions $e^+ + e^-$ at 1.6 to 2.0 GeV, scintillation counter and spark chamber telescope study of cross sections for multiple particle production in, (E), 24:40229 (LNF-70/37)
interactions $e^+ + e^-$ at 200 and 500 MeV, cross sections for, (E), 21:5350(R) (N-65-16276)
interactions $e^+ + e^-$ at 800 to 1000 MeV in colliding beams, status report on, (E), 25:52996
interactions $e^+ + e^-$ at high energies in colliding beams, vector dominance and statistical models for cross sections for meson production in, (T), 25:1440 (DESY-70/44)
interactions $e^+ + e^-$ at high energies in colliding beams, total and differential cross sections for e and μ pair production in, (T), 25:36433 (LNF-71/1)
interactions $e^+ + e^-$ at high energies in colliding beams, classification of cross sections and sum rules for hadron production in, (T), 25:38690
interactions $e^+ + e^-$ at high energies in crossed beams, cross section for production of two electron pairs in, (T), 24:49380
interactions $e^+ + e^-$ at high energies in quantum electrodynamics, 23:51987
interactions $e^+ + e^-$ at high energies, amplitudes for, 23:42618
interactions $e^+ + e^-$ at high energies, asymptotic behavior of structure functions for hadron production in, 24:5270
interactions $e^+ + e^-$ at high energies, double-logarithmic asymptotics for backward, (T), 21:44309
interactions $e^+ + e^-$ at high energies, hypothesis of similarity for hadron production in, (T), 24:45507
interactions $e^+ + e^-$ at high energies, impact factor and amplitudes for, 23:42619
interactions $e^+ + e^-$ at high energies, impulse approximation and parton model for hadron production in, (T), 25:7604
interactions $e^+ + e^-$ at high energies, integral equation for cross sections from partial waves with multi-Regge poles for bremsstrahlung amplitudes in backward, (T), 25:59369
interactions $e^+ + e^-$ at high energies, light-cone properties of axial-vector and electromagnetic current commutators for π and hadron production in, (T), 25:19941
interactions $e^+ + e^-$ at high energies, parton model for total cross sections for hadron production in, 24:40308
interactions $e^+ + e^-$ at high energies, spectral sum rules in Sugawara model with modified stress tensor for cross sections for hadron production in, (T), 25:28006
interactions $e^+ + e^-$ at high energies, Sugawara field theory of currents for total cross sections of hadron production in, 24:40306
interactions $e^+ + e^-$ at high energies, universal isovector current for $\pi\pi$ resonance production in, 24:32984
interactions $e^+ + e^-$ at high energies, vector meson current for Schwinger terms for asymptotics of total cross sections for hadron production in, (T), 25:33617
interactions $e^+ + e^-$ at infinite energy, radiative corrections to, 24:37707
interactions $e^+ + e^-$ at ultra high energies, polarization effects in annihilation, (T), 22:39320
interactions $e^+ + e^-$ in Adone storage ring, Monte Carlo program for simulation in magnetic analyses of products from, 23:37039 (LNF-69/13)
interactions $e^+ + e^-$ in Cambridge Synchrotron, 22:32254 (CEAL-2000, pp 112-18)
interactions $e^+ + e^-$ in colliding beams, angular correlation for baryon resonance production from, (T), 23:23427
interactions $e^+ + e^-$ in colliding beams, baryons, antibaryon, meson, single hadron, and multiple particle production and total cross sections for, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, contribution to total cross section from bremsstrahlung mechanism for differential cross section for hadron production in, (T), 25:59375

interactions $e^+ + e^-$ in colliding beams, differential and total cross sections for production of single neutral vector mesons and W boson in, (T), 25:33599
interactions $e^+ + e^-$ in colliding beams, differential cross sections for spin-3/2 baryon pair production in, (T), 22:24587
interactions $e^+ + e^-$ in colliding beams, differential cross sections for hadron production in deep inelastic $e + e$ interactions from, (T), 25:59371
interactions $e^+ + e^-$ in colliding beams, feasibility of experiment for deep inelastic $e + \gamma$ interactions from, (T), 25:50097
interactions $e^+ + e^-$ in colliding beams, feasibility of studying resonances with positive charge parity in, (E), 25:33519
interactions $e^+ + e^-$ in colliding beams, $\gamma + \gamma$ forward scattering from photon and hadron production in, (T), 24:52000 (JINR-E2-5347)
interactions $e^+ + e^-$ in colliding beams, hadron production through single photon exchange and electron exchange in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, mesons (ω) and (phi) production in, (E), 24:18061 (CONF-690330-, pp 2-14)
interactions $e^+ + e^-$ in colliding beams, pair production and bremsstrahlung on nuclei in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, pair production in, (T), 25:36448
interactions $e^+ + e^-$ in colliding beams, pair production and bremsstrahlung on nuclei in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, review of, 24:18059 (CERN-69-29, pp 61-95)
interactions $e^+ + e^-$ in colliding beams, selection rules for $\gamma + \gamma$ interactions in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, soft photon emission from, (T), 22:29659
interactions $e^+ + e^-$ in colliding beams, soft photon emission from, (T), 23:5556(T) (JPRS-45594)
interactions $e^+ + e^-$ in colliding beams, spark chamber and scintillation counter study of partial width and branching ratio of ω in, (E), 24:20056 (LAL-1229)
interactions $e^+ + e^-$ in colliding beams, tests of quantum electrodynamics in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding beams, two amplitudes and relative phase for $\gamma + \gamma \rightarrow \pi^+ + \pi^-$ interactions from differential cross sections for pionization in, (T), 25:45690 (DESY-71/23)
interactions $e^+ + e^-$ in colliding beams, weak interactions in, (E/T), 25:52990 (DESY-71/28)
interactions $e^+ + e^-$ in colliding-beam experiments, diagonal and nondiagonal, 24:45459
interactions $e^+ + e^-$ in complex space, 22:11621
interactions $e^+ + e^-$ in crossed beams, Landau—Lifshitz process for cross sections for hadron production in, (T), 25:59334 (LNF-71/14)
interactions $e^+ + e^-$ in parton model, structure function for annihilation, 24:13001
interactions $e^+ + e^-$ in preasymptotic region, parton model predictions for hadron production in, (T), 25:36434 (LNF-71/5)
interactions $e^+ + e^-$ in Stanford Linac and storage ring colliding beam experiments, luminosity and interaction rates for, 25:50579
interactions $e^+ + e^-$ in storage rings, experimental conditions for $\gamma + \gamma$ interactions from, 25:36451
interactions $e^+ + e^-$ in storage rings, physics of, 22:11818
interactions $e^+ + e^-$ in storage rings, review of vector meson production in, (E), 24:37601 (LAL-1234)
interactions $e^+ + e^-$ in Wilson cloud chamber, Bhabha exchange effects on cross sections for, (E), 23:3631
interactions $e^+ + e^-$ using Adone storage rings, 24:47356 (LNF-70/38)
interactions $e^+ + e^-$ using polarized beams, general formula for two-particle production in, 22:37119
interactions $e^- + e^+$ via meson (phi) and (ω) production, integer quark charge for, 21:15379
interactions $e^+ + e^-$, amplitude for production of two soft π in, 25:43596
interactions $e^+ + e^-$, angular correlations for 3π production in, 22:24579
interactions $e^+ + e^-$, atomic effects on annihilation rates for, (T), 25:1455
interactions $e^+ + e^-$, beam bypass design for Cambridge Synchrotron for providing, 22:32255 (CEAL-2000, pp 119-22)
interactions $e^+ + e^-$, Bethe—Salpeter equation for, 22:53019
interactions $e^+ + e^-$, bremsstrahlung and elastic radiative corrections to annihilation, 21:11756
interactions $e^+ + e^-$, chiral SU(3) x SU(3) equal-time commutation relation extension to light cone for amplitude of hadron production in forward spin-averaged, 24:3590
interactions $e^+ + e^-$, cross section for heavy lepton production in, (T), 25:59390
interactions $e^+ + e^-$, current commutators near light cone for hadron production in, (T), 24:49386
interactions $e^+ + e^-$, design of experiment for studying cross sections of, (E/T), 25:3245
interactions $e^+ + e^-$, double-logarithmic asymptotics of bremsstrahlung amplitudes in backward, 22:1409
interactions $e^+ + e^-$, effect of weak interaction on polarization in colliding-beam, (T), 24:42901
interactions $e^+ + e^-$, eikonal form of amplitude for elastic, 25:1600
interactions $e^+ + e^-$, estimate of hadronic contribution to charge renormalization from scale invariance in hadron production from, (T), 24:45467
interactions $e^+ + e^-$, Feynman diagrams for physical description of diffraction, 23:46658
interactions $e^+ + e^-$, Feynman rules in statistical mechanics for, 21:33645
interactions $e^+ + e^-$, field—current identity and vacuum polarization effects of hadrons in colliding-beam, 23:13054 (LNF-68/60)
interactions $e^+ + e^-$, final particle correlations in deep inelastic, 24:24295
interactions $e^+ + e^-$, form factors from colliding-beam, 22:11611
interactions $e^+ + e^-$, general causality conditions for form factors for hadron pair production from virtual photon in, 23:46657
interactions $e^+ + e^-$, Goldstone theorem and Bethe-Salpeter equation for amplitude of, 21:15402
interactions $e^+ + e^-$, hard bremsstrahlung contribution to total production cross section for, 25:53068
interactions $e^+ + e^-$, high-energy behavior of total cross sections for hadron production in, (T), 23:44626
interactions $e^+ + e^-$, hypotheses for strong interactions at high energies from single photon annihilation into hadrons in, (T), 25:38733
interactions $e^+ + e^-$, in colliding beams, spinless boson pair production in, (T), 25:53048 (DESY-71/30)
interactions $e^+ + e^-$, in storage rings, study of even-charge conjugation hadronic systems from production of hadronic states and photon in, (T), 25:14621
interactions $e^+ + e^-$, inelastic $e + \gamma$ interactions from colliding-beam, 25:47793
interactions $e^- + e^+$, infrared corrections for colliding beam experiments on, 22:3320
interactions $e^+ + e^-$, infrared radiative corrections for resonant processes in, (T), 22:44353 (LNF-68/26)
interactions $e^+ + e^-$, intensities and spectral energy density of radiation from, 24:20111
interactions $e^+ + e^-$, intermediate vector meson production in annihilation, (T), 21:7488
interactions $e^+ + e^-$, invariant tensor integration for polarization in photon production in, (T), 23:27781
interactions $e^+ + e^-$, lectures on parton model for structure functions, sum rules, and asymptotic behavior for proton production in annihilation, (T), 25:47778
interactions $e^+ + e^-$, limits on production and decay modes of heavy leptons from, 25:27998
interactions $e^+ + e^-$, Orsay and Novosibirsk experiments on rho^0, ω, and phi production in, 25:5250 (DNPL/R-7, pp 139-72)
interactions $e^+ + e^-$, pair production of spin-2 particles in, (T), 23:39664
interactions $e^+ + e^-$, PCAC hypothesis and current algebra for spectral functions from soft pion production in annihilation, (T), 24:49370 (NYO-4204-2)
interactions $e^+ + e^-$, PCAC hypothesis and current algebra for spectral functions from soft-pion production in, (T), 24:49389
interactions $e^+ + e^-$, phi resonance study from colliding-beam, (E), 24:24212
interactions $e^+ + e^-$, polarization effects in identical meson pair production in, (T), 25:36438
interactions $e^+ + e^-$, polarization effects on charge-conjugation tests in annihilation, 24:13011
interactions $e^+ + e^-$, production and decay chains of meson resonances from colliding-beam, 22:50326
interactions $e^+ + e^-$, production and decay of vector mesons in, (E), 23:32600 (LNF-69/6)
interactions $e^+ + e^-$, production of heavy lepton in, (T), 23:7116
interactions $e^+ + e^-$, production of pseudoscalar mesons in, 25:56459
interactions $e^+ + e^-$, production of rho, ω, and phi in, 23:13055
interactions $e^+ + e^-$, properties of current propagator from hadronic cross sections in colliding-beam, 24:45461
interactions $e^+ + e^-$, proposed experiment using Adone for annihilation, 21:27285 (LNF-66/56)
interactions $e^+ + e^-$, quantum electrodynamics with external current and potential for, 22:32200
interactions $e^+ + e^-$, quasipotential description in quantum field theory of, 22:24592
interactions $e^+ + e^-$, radiative corrections to, 24:12997
interactions $e^+ + e^-$, radiative corrections to neutral vector boson mediated, (T), 21:905
interactions $e^+ + e^-$, radiative corrections to resonant particle production in colliding-beam, (T), 22:39326
interactions $e^+ + e^-$, Regge-pole-theory prediction of scaling in hadron production in, (T), 25:59376
interactions $e^+ + e^-$, relation with infrared divergences for annihilation, 23:15223
interactions $e^+ + e^-$, relativistic quasipotential equations for, (T), 25:1444 (JINR-E2-5225)
interactions $e^+ + e^-$, review of, (E), 24:51876
interactions $e^+ + e^-$, rho^0 width from production in, 22:39416
interactions $e^+ + e^-$, scaling symmetry relative to $\mu^+ + \mu^-$ in elastic, (T), 25:22858
interactions $e^+ + e^-$, self-consistent dispersion-theoretic amplitudes for, 25:33602
interactions $e^+ + e^-$, similarity hypothesis for hadron cascade formation and energy distribution in annihilation, (T), 25:38694
interactions $e^+ + e^-$, singular terms in current commutators for annihilation, 21:37923
interactions $e^+ + e^-$, spark-chamber study of rho production in colliding beam, (E), 24:6679(T) (SLAC-Trans-105)
interactions $e^+ + e^-$, statistical and parton models for predictions for hadron production in, (T), 24:49367 (LNF-70/21)
interactions $e^+ + e^-$, statistical model and parton theory for predictions on hadron production in, 24:40309
interactions $e^+ + e^-$, strongly interacting particle production processes in, 21:21153 (CEAL-TM-153)
interactions $e^+ + e^-$, test of C noninvariance in neutral vector-meson production in colliding-beam, (T), 21:37878
interactions $e^+ + e^-$, test of constituents of electromagnetic currents from sum rules for, 23:25560
interactions $e^+ + e^-$, tests of C invariance in, (T), 23:32789
interactions $e^+ + e^-$, tests of ΔT less than or equal to 1 rule in, 21:46510
interactions $e^+ + e^-$, total cross sections for W and e^+ production in colliding-beam, 25:59383
interactions $e^+ + e^-$, use in determining optimum operating conditions of storage rings, 21:33829
interactions $e^+ + e^-$, vacuum polarization corrections for amplitude of annihilation in, (T), 24:42911
interactions $e^+ + e^-$, vector meson production from, (E/T), 23:49072 (CERN-69-22)
interactions $e^+ + N \rightarrow e^+ + N$ at high energies and low momentum transfers, Compton scattering cross sections for two-photon-exchange contribution to, (T), 25:59372
interactions $e^+ + p \rightarrow e^+ + p$ at 0.2 to 20.0 GeV, cross section relative to $e^- + p \rightarrow e^- + p$ interactions, (E), 22:22270 (CONF-670923-, pp 102-8)
interactions $e^+ + p \rightarrow e^+ + p$ at 1.700 GeV, differential cross section ratio relative to $e^- + p \rightarrow e^- + p$ interactions, (E), 23:46597
interactions $e^+ + p \rightarrow e^+ + p$ at 380 and 980 MeV at 180°, cross section ratio of $e^- + p \rightarrow e^- + p$ interactions to, (E), 25:38633 (LAL-1251)
interactions $e^+ + p \rightarrow e^+ + p$ at 4 and 10 GeV at 2.6 to 35°, magnetic spectrometer study of cross section ratio with $e + p \rightarrow e + p$ interactions for, (E), 24:32955
interactions $e^+ + p \rightarrow e^+ + p$ at high energies, polarization dependence of differential cross sections for, (T), 25:1452
interactions $e^+ + p \rightarrow e^+ + p$ below 12 GeV, ratio to $e^- + p \rightarrow e^- + p$ interactions for, (E), 23:49032
interactions $e^+ + p \rightarrow e^+ + p$, effects of Veneziano-model form factors on ratios of cross sections for $e^- + p \rightarrow e^- + p$ interactions and, (T), 25:19942
interactions $e^+ + p \rightarrow e^+ + p$, general expression for differential cross section for polarization dependence of, (T), 22:39329
interactions $e^+ + p \rightarrow e^+ + p$, scintillation counter study of backward, (E), 22:7420 (LAL-1183)
interactions $e^+ + p \rightarrow e^+ + p$, scintillation counter study of cross sections for backward, (E), 22:13639
interactions $e^+ + p$ at 1.700 GeV, Cherenkov and scintillation counter and spark chamber study of cross sections for elastic, (E), 22:3240
interactions $e^+ + p$ at 12 GeV, magnetic spectrometer and scintillation and shower counter study of time reversal invariance in inelastic, (E), 24:24213
interactions $e^+ + p$ at 12 GeV, test of time reversal invariance in inelastic, (E), 24:52161
interactions $e^+ + p$ at 2.34 GeV/c, spectrometer, scintillation and Cherenkov counter study of cross section for elastic, 21:37656 (DESY-67/22)
interactions $e^+ + p$ at 800 and 1200 MeV, cross section for elastic, (E), 22:20115
interactions $e^+ + p$ at $q^2 = 11.66$ and 35.1 fm^{-2}, elastic cross section relative to $e^- + p$ interactions, 21:42241
interactions $e^+ + p$ at small angles, comparison of cross section for elastic $e + p$ interactions with elastic, (T), 24:32992
interactions $e^+ + p$, model for renormalizable theory for weak, 22:48280
interactions $e^+ + p$, radiative corrections to, 23:32667
interactions $e^+ + p$, ratio of cross sections for elastic $e + p$ and, 22:44302
interactions $e^+ + p$, renormalizable theory of weak interactions for, 22:44386 (ITEF-580)
interactions $e^+ + p$, search for time reversal invariance violation in inelastic, (E), 25:5400 (UCRL-20041)
interactions $e^+ + p$, two-photon exchange effects in, 22:11611
interactions $\gamma + e^+ \rightarrow e^+ + \tau +$ anti τ in hot plasma, neutrino energy loss rate from, (T), 21:18963
interactions $\gamma + e^+$, Feynman rules in statistical mechanics for, 21:33645
interactions $\mu + e^+$, cross sections to order α^3 for, 25:30820
interactions $\mu^- + e^+$, radiative corrections to, 25:30820
interactions $\mu^+ + e^+$, radiative corrections to, 25:30820
interactions $\tau + e^+$, white dwarf statistics for upper limit for coupling constant for, 24:20068
interactions τ/sub e/ $+ e^+ \rightarrow$ anti τ/sub μ/ $+ \mu^+$, μ polarization from, (T), 22:3321
interactions τ/sub e/ $+ e^+ \rightarrow \tau$/sub e/ $+ e^+$ at relativistic electron energies, neutrino energy spectra from, 21:33676
interactions τ/sub e/ $+ e^+ \rightarrow \tau$/sub μ/ $+ \mu^+$ at relativistic electron energies, neutrino energy spectra from, 21:33676
interactions τ/sub e/ $+ e^+ \rightarrow \tau$/sub μ/ $+ \mu^+$, differential cross sections and μ^+ polarization from, 22:13725
interactions τ/sub e/ $+ e^+ \rightarrow \tau$/sub μ/ $+ \mu^+$, μ polarization from, (T), 22:3321
interactions τ/sub e/ $+ e^+ \rightarrow \tau$/sub μ/ $+ \mu^+$, two- and four-component theory for, 22:22376
interactions τ/sub μ/ $+ e^+ \rightarrow$ anti τ/sub e/ $+ \mu^+$, μ polarization from, (T), 22:3321
interactions of, conference on, 22:22342 (CONF-670923)
interactions of, tests of quantum electrodynamics from structure of Feynman amplitude for Compton, (T), 25:30965
interactions with electron beams in Orsay storage ring, nonlinear, 21:29755
interactions with electron gas, momentum distribution in, (T), 22:9040
interactions with electron liquid, bound states in, (T), 25:27447
interactions with electrons in electron gas, 21:6987
interactions with electrons in electron gas, many-body treatment of, 24:37213
interactions with external classical electromagnetic field, elementary C^* algebra for electron—positron field, 24:13156
interactions with magnetic fields, photon emission from relativistic, 21:615

interactions with neutrons, magnetic-field effects on, (T), 24:28062
interactions with phonons in metals, effects on positron annihilation, (T), 24:21564
lifetime in alkali metal halides, (T), 24:37211
lifetime in ammonia at -40 to -196°C, (E), 23:10446
lifetime in F centers of potassium chlorides, 24:45011
lifetime in gases and liquids, quenching cross section of oxygen molecules for, (T), 22:29228
lifetime in liquid argon, fast-slow coincidence for, (E), 25:40370
lifetime in lithium—ammonia solutions, analysis of data on, 21:46169
lifetime in magnetic fields, design of transistorized time-to-amplitude converters for use with scintillation detectors in analysis of, 21:10703
lifetime in metals, measurement of, 21:46171
lifetime in metals, temperature dependence of mean, (E), 21:46154
lifetime in metals, vacancy trapping model showing temperature dependence of, 24:6659
lifetime in nickel single crystals, 21:9292 (IS-T-134)
lifetime in semiconductors, (E), 21:2046
lifetime in sodium chloride crystals, effects of irradiation and deformation on, (E), 24:37177(R) (NYO-2962-8)
lifetime in solid argon, calculation of, 24:15410
lifetime in solids, transistorized time-to-amplitude converter for measuring, 22:16961
lifetime in water, correlation with angle between annihilation gamma rays and, (E), 21:16810
lifetime in water, temperature dependence of, 22:17415
lifetime measurements in semiconductor single crystals, 25:56360
lifetime of deeply embedded, in metals, (E), 23:44173 (IS-T-311)
lifetime spectra in positronium-forming substances, effects of impurities on, 23:48728
lifetime spectrum in irradiated sodium chloride, correlation of long-lived component with V centers, 25:17291
lifetimes and intensities in sodium chloride crystals, effects of irradiation on, 25:43453
lifetimes and intensities in water and water-d_2, effects of phase transition on, 24:15144
lifetimes in alkaline earth fluorides, empirical model for calculation of, 25:55834
lifetimes in aluminum and copper, effect of cyclic deformation on, 23:20680
lifetimes in carbon tetrachlorides, silicon tetrachlorides, germanium tetrachlorides, and tin tetrachlorides, long-lived component of, (E), 23:39309
lifetimes in deformed aluminum single crystals, 24:19992
lifetimes in γ-irradiated polypropene, 24:31431
lifetimes in metal hydrides, delayed coincidence system study of, (E), 22:38732
lifetimes in metals of deeply embedded, measurements, 24:19739
lifetimes in organic molecules, relation to molecular properties, (E), 25:24877
lifetimes in rare earth oxides, 25:30272
loss of cosmic, from the Galaxy, leakage, (T), 23:34293
magnetic moment of, (g - 2) experiments for measuring, 22:46512
mass in electron gas, effective, 21:6987
mass in metal, review of effective, (E/T), 22:26205
mass of, in electron gas, effective, (T), 24:15428
mass of, in electron gas, effective, (T), 24:15439
mass of, particle composition method for determining, (T), 22:29646
mass of, rheon-particle calculations for, 22:20160
modulation of cosmic, solar, (T), 24:21617
modulation of cosmic, solar, (T), 24:3203 (CEA-R-3815)
momentum spectra from $K^+ \rightarrow \pi^0 + e^+ + \nu$ decay, (E), 22:15666
monitoring at 6 and 11 GeV, response of aluminum and gold foil secondary emission monitors for, 23:7730 (CEAL-1045)
motion in electromagnetic fields and in homogeneous magnetic fields, quasi-energetic spectra of, (T), 24:21905
motion in electromagnetic fields, spin equation involving radiative effects, 24:21904
motion in gravitational field, (E/T), 22:1486
motion in helium as function of pressure and applied electric field, (E), 24:19742
motion in single crystals, effects of lattice structure on, 22:26475
motion in storage rings, linear theory of, 22:26745
motion within closed metallic container, 22:29651
motions in metals, phonon effects in, (E), 21:20761
origin of low-energy cosmic, in supernovae shells, (T), 24:47047
penetration into solids and liquids, comparison with electrons, 21:33177
physical chemistry of, review, 22:52538
polarization in crossed beams, characteristic, (T), 22:17920
production and acceleration of, design of electron linear accelerator for, 22:41908(P)
production and lifetime in metallic crystals, 23:1580 (IS-1900, Paper 6)
production and propagation in upper atmosphere, secondary negatrons and positrons, (E/T), 25:43235
production conversion yield differential in electron reactions with converter materials, 22:24760
production conversion yield in electron reactions with targets at 2.0 to 4.0 MeV and 24.5 MeV, 22:24762
production from cosmic-ray interactions in atmosphere, latitude effects on, (E), 24:5014(T) (ORNL-tr-2207)
production from $\mu^+ \rightarrow e^+ + \nu +$ anti ν decay in emulsions in longitudinal magnetic field, asymmetry for, (E), 21:44257
production in cosmic-ray processes, (T), 22:29102
production in electron reactions with aluminum, beryllium, and platinum at 500 MeV, ionization chamber spectrometer, and scintillation and Cherenkov counter study of trident and quartet, (E), 22:26547 (SLAC-PUB-330)
production in electron reactions with beryllium, beryllium—iron, and iron at 16 and 18 GeV, yields of, (E), 22:20113
production in electron reactions with thick tantalum targets at 640 and 1220 MeV, yields in, 23:21202
production in electron reactions with thick targets, conversion yields for, (T), 24:13218 (FR-68-1/1)
production in $\gamma + p$ interactions at nucleon resonance, real part of Compton amplitude from, 24:13009
production in $K_2^0 \rightarrow \pi + e + \nu$ decay, time reversal invariance test in Coulomb final-state interaction corrections for charge asymmetry in, (T), 25:43660
production in neutrino reactions with iron, angular and momentum distributions for, (T), 25:59415
production in neutrino reactions with nuclei, angular and momentum distributions for, (T), 25:59415
production in nuclear Coulomb field with $Z > 137$, (T), 25:1459
production in $p + n$ interactions at 960 to 1065 MeV, differential cross sections for, (T), 24:10785
production in photon interactions in aluminum, carbon, copper, and lead at 1.2 to 4.0 GeV, total cross section for, (E), 22:34832
production in photon reactions with liquid xenon at 35 to 2000 MeV, (E), 25:17255 (JINR-P1-5482)
production in $\pi^0 \rightarrow \gamma + e^+ + e^-$ decay, dependence on π^0 lifetime for relative probability for observation of, (T), 25:50091 (JINR-P2-5941)
production in $\pi^- + p \rightarrow e^+ + e^- + n$ interactions at 275 MeV, energy and emission angles for, (E), 25:38672
production of beams of, from electron interactions with beryllium targets at 16 to 18 GeV, 21:17230
production of e^+—e^- pairs in $\gamma + e^- \rightarrow e^- + e^+ + e^-$ interactions, cross sections for, (T), 23:51880 (JINR-P2-4644)
production of e^+—e^- pairs in photon reactions in liquid xenon at 35 to 2000 MeV, cross sections for, 25:52994
production of e^+e^- in electron interactions with electromagnetic field at 4 GeV/c in propane bubble chamber, direct, 25:56467
production of heavy, in $\nu + p \rightarrow n + e^+$ interactions, (T), 22:44384 (IFVE-STF-67-57-K)
production of high-energy polarized, from circularly polarized photons, (T), 25:33641
production of low-energy, in cosmic radiation, β-decay, (T), 23:27403
production of μ^-—e^+ pairs in neutrino reactions with neon at 0 to 110 GeV in proposed 25-foot bubble chamber, 24:51907 (TID-25473(Vol.2), pp 143-57)
production of, use of electron linear accelerator for, 21:42519(P)
radiation effects on annihilation of, in acetylmethionine, 25:8269
range in rare earth metals, comparison of 1.77-MeV electron range with 1.88-MeV, (E), 23:14631
range of 1.88-MeV, in benzene, toluene, and water, 21:13390
reactions of high-energy, astrophysical implications of, (T), 22:29102
reactions of, use in study of chemical kinetics and radiation chemistry, 22:120
reactions with aluminum and gold at 1.5 to 18 GeV, secondary emission yield from, (E), 23:32601
reactions with aluminum at 0.6 to 4 GeV, energy dependence of x-ray transition radiation from, (E), 24:28468
reactions with argon, cross sections for ionization in, 24:28091 (ANL-7615, pp 214-18)
reactions with atomic hydrogen and helium, adiabatic approximation and conditions for bound states for, 22:52493
reactions with conduction electrons in metals, thermalization time in, (T), 23:30319
reactions with crystals, bremsstrahlung emission from, (T), 24:40224
reactions with electron gas in metals at 10 to 100 eV, positron formation by, (T), 23:46274
reactions with gases, review of processes involved in, (T), 24:21588
reactions with gases, specific ionization in, 24:28091 (ANL-7615, pp 214-18)
reactions with helium and hydrogen atoms, variational bounds in low energy, (T), 22:38723 (N-68-19039)
reactions with helium and hydrogen, formation and scattering of positronium in, (T), 24:21588
reactions with helium below 250 eV, Born-approximation calculation of total cross section for double-electron capture in, 23:27349
reactions with helium, formation of bound complexes in, (T), 23:1163
reactions with helium, search for bound state in, (T), 23:27342
reactions with hydrogen atoms at 6.8 eV, variational calculation of positronium formation in, 23:14613
reactions with hydrogen atoms at low energies, convergence of separable-expansion method for solution of Faddeev equations for, 25:14010
reactions with hydrogen atoms, closed-channel spectrum for rearrangement in, (T), 25:19503
reactions with hydrogen atoms, cross section for positronium formation in, (T), 22:13219
reactions with hydrogen atoms, eikonal approximation for excitation of 2s state in, 25:55874
reactions with hydrogen atoms, generalized variational bounds and coupled-static approximation for, (T), 25:9216
reactions with hydrogen atoms, generalized-variational-bounds formalism for distortion effects on rearrangement in, 25:11719
reactions with hydrogen atoms, Glauber-theory calculations of excitation cross sections for, 25:35878
reactions with hydrogen atoms, tables of gamma spectra from, 21:3638 (SLAC-67)
reactions with hydrogen atoms, theory of generalized variational bounds for positronium formation in, 25:58755
reactions with hydrogen ions (H_2^+), vibrorotational excitation in, (T), 25:43141
reactions with hydrogen molecules at 50 to 544 eV, Born approximation calculation of cross sections for positronium formation by electron capture in, 25:14006
reactions with hydrogen, elastic P-wave scattering phase shifts calculation for, 22:38790
reactions with hydrogen, resonance possibility in, 22:38793
reactions with metals at 100 to 500 keV, penetration depth of, (T), 25:49968
reactions with nuclei, cross sections for, (T), 23:46330
reactions with tantalum-181 and uranium-238 at 70 to 1000 MeV, electron—positron cross-section ratio for, (E), 24:24561
reactions with targets in storage rings, calculations for, 22:5696
reactions with thin magnetized foils in MeV range, energy loss straggling in, (T), 23:39297
scattering by aluminum, copper, lead, and silver foils at 100 to 1300 keV as function of foil thickness and incidence angle, single, plural, and multiple elastic, (E), 25:9225
scattering by argon at low energies, calculation of cross sections for, 23:32151
scattering by atoms above positronium-formation threshold, annihilation rate in, (T), 25:30289
scattering by atoms at low energies, central-potential form for, (T), 25:43148
scattering by atoms at low energies, perturbation calculation of target distortion in, 23:12549
scattering by atoms, review of approximation methods for elastic, 24:21588
scattering by bound states, general eigenvalue theory of, 24:45050
scattering by copper and platinum around 1 MeV, cross sections for, 23:34733 (AD-681054)
scattering by helium and hydrogen atoms at zero energy, calculations for elastic, 22:24050
scattering by helium and hydrogen atoms, calculation using Kohn and Harris variational methods, 25:19509
scattering by helium and hydrogen, corrections to polarization potential in calculation of, 22:21879
scattering by helium at 1 to 5 eV, cross section for momentum transfer in elastic, (E), 25:45305
scattering by helium at low energies, correlation effects on calculation of phase shifts for elastic, 25:9196
scattering by helium atoms, zero-energy scattering length for elastic, (T), 21:6985
scattering by helium, positronium formation in, (T), 24:12647
scattering by helium, projection-operator method for calculation of positronium formation in, 23:27348
scattering by hydrogen at low energies, modified close-coupling calculation of elastic phase shifts and total inelastic cross sections for, 25:40388
scattering by hydrogen atoms at intermediate and high energies, approximation methods including second-order effects for, (T), 25:22373
scattering by hydrogen atoms at low energies, generalized Hylleraas calculation of phase shifts for, 25:19508
scattering by hydrogen atoms at low energies, phase shifts in elastic, (T), 23:16661
scattering by hydrogen atoms, algebraic close-coupling approach to, 25:55854
scattering by hydrogen atoms, algebraic cross-coupling calculation of, 25:30286
scattering by hydrogen atoms, calculation by extrapolation of t matrix from complex to real energies, 25:38149
scattering by hydrogen atoms, Harris-method calculation of phase shifts for s-wave elastic, 25:35879
scattering by hydrogen atoms, optical potential calculation of elastic, 25:16819
scattering by hydrogen atoms, resonance below positronium formation threshold in, (T), 23:27342
scattering by hydrogen atoms, review of use of Sturmian functions in calculation of, 25:11732
scattering by hydrogen molecules at 0.4 to 14 eV, total cross sections for elastic, (T), 25:19501
scattering by hydrogen, resonances in, (T), 21:7021
scattering by hydrogen, variational calculations of phase shifts of, 24:39809 (ORNL-4446, pp 163-76)
scattering by hydrogen-like ions, Harris method calculations of phase shifts for elastic, 25:40377
scattering by metallic thick targets at 0.5 to 2.0 MeV, Monte Carlo calculations of angular distributions and energy spectra from back-, 25:13959 (UCRL-19719)
scattering by nuclei, radiative corrections for elastic, 25:59880
scattering by potassium halide single crystals, effects of channeling and atomic number on, (E), 25:7137
scattering by screened nuclei at 0.2 to 10 MeV, cross sections for elastic, (T), 21:4281
scattering by thin foils at 180 to 395 keV, calculation and measurement of plural, 21:14965
scattering from atomic hydrogen, coupled-states method for calculating s-wave, (T), 22:41370
scattering from atoms, coupled-states method for calculating, (T), 22:41370
scattering from atoms, variational bounds for, (T), 22:41373
scattering from hydrogen and helium atoms, variational bounds for, (T), 22:41373
scattering from potassium halide single crystals, channeling and temperature effects on back-, 25:52916
scattering of, nonadiabatic target distortion in low-energy, 22:7132 (ORNL-4168, pp 119-82)

scattering on hydrogen, positronium formation in, (T), 22:952
scattering on hydrogen, positronium production in, (T), 22:17351
scattering on hydrogen, s-wave phase shifts for, 21:11441
scattering on hydrogen, solution of equations for, (T), 21:16792
scattering, differences in multiple electron-, 21:13389
slowing down in heavy gases, equations for, 21:20782
solar modulation of cosmic-ray, (T), 22:9124
spectra between 11 and 204 MeV of primary, (E), 24:51464 (N-70-28733)
spectra from internal pair production in nuclear E1 transitions, (E/T), 22:20599
spectra from meson (μ^+) decay in copper, (E/T), 21:17028 (UCRL-16168)
spectra from μ^+ decay, use of wire spark-chamber spectrometer for measuring, 21:29434
spectra from pair production at photon energies below 2.5 MeV, (T), 22:44790
spectra in tagged photon beams, 21:27462 (CALT-68-128)
spectra of cosmic, at 12 to 220 MeV, (E), 23:27395 (N-69-15908)
spectra of cosmic, between 12 and 220 MeV, measurement of, 23:16685
spectra of galactic cosmic-ray secondary, energy, (T), 22:17432
spectra of primary cosmic, (E/T), 24:5015
spectra, source-supporting effect on shape of time annihilation, (E), 22:9476
spectrum from pion decay in interstellar space, (T), 21:3708
spectrum of secondary, produced in interstellar space by primary cosmic radiation, (T), 22:9126
stopping by aluminum, copper, gold, and silver at <500 keV, (T), 25:17962
stopping in argon, helium, and neon at 0.01 to 3 atm, search for positronium Lyman-α radiation from, 24:30153
synchrotron emission from relativistic, in solar flares, (T), 22:17341
theory for, mass spectrum of preparticles in, 21:33627
thermalization in metals, effect of superconducting transition on, (T), 23:18567
thermalization in simple metals, effects of positron—phonon interaction on, (T), 24:19738
thermalization time of, in polyatomic gases, 23:10436
transmission of 1- to 4-GeV, through air and aluminum, formation-zone effect in transition radiation from, (E), 25:7531
transmission through materials, mass absorption coefficients relative to electron coefficients for, (E), 23:51363
transmission through polyethylene films, (E), 23:22892
transport of cosmic, in homogeneous media, Monte Carlo simulation of, 24:5010 (HASL-213)
use in stereo camera to determine distribution of radioactive materials in test body, 21:32301(P)
wave function for, in solids, assumption-independent single-particle, 22:36722
wave functions for bound systems of atoms and, calculational techniques for, 23:1163
wave functions for, computer program for calculating, 23:46248 (UJV-2184-F)
x-ray transition radiation from 2-GeV, for relativistic gamma factor for, (E), 23:43600

POTASH
see also Potassium Carbonates
see also Potassium Hydroxides
see also Potassium Oxides
mining in South Africa, status of, 23:11667
production of, economics of dual purpose reactors for, 25:54244
prospecting for, review on nuclear borehole methods for, 25:41931

POTASSIUM
see also Alkali Metals
absorption coefficients for, free—free, (T), 21:33129
abundance and energy spectra in primary cosmic radiation, (E), 23:14655
abundance and energy spectra of high-energy cosmic-ray nuclei of, (E), 21:637
abundance in Apollo 11 and 12 samples, (E), 25:16741
abundance in Apollo 11 lunar rocks, (E), 24:21524
abundance in Apollo 11 lunar samples, (E), 24:21542
abundance in Apollo 14 soils 14163 and 14259, (E), 25:52596
abundance in carbonaceous chondrites, (E), 24:17409
abundance in crystalline rock of Canadian Shield in northern Quebec, 21:25975
abundance in Earth's core, (T), 25:40338
abundance in earth's crust, estimates of, 23:24324
abundance in hypersthene achondrite and pallasite meteorites, age estimation from, 22:19689
abundance in L and H chondrites, (E), 25:8967
abundance in Lost City meteorites, (E), 25:40146
abundance in lunar and terrestrial materials, (E), 25:35830
abundance in lunar rock 12013, (E), 25:955
abundance in lunar rock 12013, (E), 25:953
abundance in lunar rock 12013, (E), 25:952
abundance in lunar rock 12013, 10, (E), 25:959
abundance in meteorites, (E), 25:24678
abundance in Moon, (T), 24:17620
abundance in photosphere, (E), 22:23932
abundance in Schwarzwald fluorites, 21:186
abundance in stony meteorites, (E), 22:13128
abundance of, solar, (T), 22:13206
abundance ratio to chlorine in seawater by high pressure difference chromatography, 22:37649(R) (NYO-3838-1)
abundance relative to uranium in atmosphere for use as indicator of localized uranium deposits, gamma spectrometric measurement of, 24:46359
abundance relative to uranium in ultramafic rocks, 24:33783
accumulation by maize, selection of populations according to differences in, 22:33712(R) (NYO-2744-53)
accumulation in rat heart muscles in comparison with cesium-137, mechanism of, 25:46700
accumulation in roots of barley and bush beans, potassium-42 tracer study of effects of calcium content on temperature dependency of, 23:41192
addition to surface soil, effects of, on strontium-90 uptake by field crops, 24:19289
analysis for oxygen by neutron activation and γ spectrometry, 24:13777 (ORNL-4466, pp 62-88)
analysis for oxygen by zirconium gettering, 23:48324 (ORNL-4420, pp 89-115)
analysis for oxygen, calibration of electrochemical sensors for, 22:12677 (ANL-7380, pp 118-22)
analysis for oxygen, errors in, 23:35980 (BNL-50170)
analysis for potassium-39/potassium-41 by neutron activation, 25:54492
analysis for trace tantalum by phenylfluorone method, 23:34982
analysis of liquid, for oxygen by zirconium gettering-vacuum-fusion method, 25:54418
analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
analysis of, ion source for isotopic, 23:6074
antiproton capture by, x-ray spectra from, 25:47798
argon atom reactions with excited atoms of, cross sections for transitions between fine structure components in, 22:11205
argon ion sputtering at 6 keV, yields from, 21:29008
argon reactions with, fitting of intermolecular potentials for, 21:33145
argon-ion reactions at 10 to 1500 eV with, total cross sections for charge exchange in, (E), 23:27380
argon-ion sputtering at 28 keV, energy spectra from, 22:948
assay in man, effects of calibration on precision of isotope-dilution method for, 23:22210
atomic beams of, design of cathode-sputtering system for production of 0.2- to 45-eV, 22:43900
atomic radial distribution in liquid, method for determining, 23:38955(R) (COO-841-18)
atomic weight of, based on carbon-12 = 12, 22:42698
availability and reserve in Missouri soils, isotopic exchange and calcium exchange studies of, 22:42662
beams of atomic, sensitivity of electron multiplier tubes for detection of, 25:42079
beta decay of natural, specific activity of, (E), 25:38928
bibliography on liquid, 1966 to 1967, 24:14706 (TRG-Inf. Ser.-312(Suppl.2))
binding by blood serum proteins, 21:36483
binding energies for liquid, 25:39470(R) (ANL-7750)
binding energy of next inner subshell, (T), 21:11388 (IPP-1/54)
boiling during free convection, heat transfer measurements for, 24:50511
boiling in forced and natural convection flow, (E), 22:51170
boiling in liquid, ultrasonic equipment for detecting incipient, 23:14082 (NYO-3622-20)
boiling in liquid, ultrasonic equipment for detecting incipient, 23:47911
boiling in liquid, ultrasonic instrumentation for detection of incipient, 21:12713(R) (NYO-3622-6)
boiling in superheated, mechanisms of incipient, 23:40913 (BNL-50149, pp 123-52)
boiling in, use of ultrasonic energy to initiate and maintain stable, 21:36232 (ORNL-P-3190)
boiling mechanisms of, effects on LMFBR safety design, 24:2383
boiling of liquid, factors affecting, 21:1501 (ANL-7184)
boiling of, bubble injection kinetics in, 21:28162
boiling superheat in, 21:28161
boiling superheats of, effects of deactivation pressure on, 22:37900 (BNL-50082, pp 153-80)
boiling thermodynamics of liquid, review on, 22:19509 (AERE-R-5436)
bond energy and interatomic distance in, calculations of, 24:23493
book: Alkali Metal Handling and Systems Operating Techniques, 22:15206
book: Guide to Uncommon Metals, 21:34854
book: Uncommon Metals, 22:10981
bremsstrahlung reactions (γ,n) at 20 MeV, yields of radioactivities from, 21:22008
cavitation damage by liquid, 21:22840(R) (N-67-13181)
cavitation effects of liquid, on type 316 stainless steel and TZC alloy, 21:45863(R) (N-67-16606)
cavitation phenomena in liquid, review, 22:52180
cesium content in salts of, use of neutron activation analysis for determining, 22:4468
cesium-137 ratio to, in cattle, 22:43235
charge exchange in, production of helium ions by nearly-resonant, 21:37995
charge of atomic, upper limits for electron—proton charge difference and neutron and neutrino charge from beam-deflection study of upper limits for, (E), 23:42600
chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
chromatographic behavior on cerium phosphate paper, 22:153
combustion properties of compounds of, up to 4000°K, (E), 23:12608
compatibility of boiling, with structural material, 21:36231 (ORNL-P-3188)
compatibility testing of structural and brazing alloys in boiling, 21:13099 (ORNL-3970, pp 185-92)
compatibility testing with refractory alloys, 21:13097 (ORNL-3970, pp 61-80)
compatibility with heat resisting alloys for power cycle heat transfer loops, review, 22:43533
compatibility with niobium- and tungsten-base alloys at 1250°C, 24:2877 (ORNL-4470, pp 68-75)
compatibility with refractory alloys, testing for use in power cycles, 23:18189
compatibility with tantalum at 600 to 1000°C, effects of oxygen on, 24:32431
compatibility with tantalum at 800 to 1000°C, effects of dissolved oxygen on, 23:20469 (ORNL-4350, pp 87-139)
complexes with deuterated and normal 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, ir spectral studies on, 21:19642
complexes with EDTA, deuterium exchange of, with heavy water, NMR spectra of, 21:3023
complexes with uranyl oxalates, crystallization of, 21:21949
compounds of, deposition of multilayers of, electrolytic, 21:42915(R) (NYO-2279-3)
compounds of, radiometric studies of effects of potassium-40 on, 22:42608
compounds with bis(2-ethylhexyl) phosphate, properties as stationary phase in gas chromatographic separations, 25:31771
compounds with hydroxyoxalatouranate, preparation of, mechanism of, 24:20755
compounds with hydroxytetraoxalatouranate, preparation and properties of, 24:20756
compounds with uranyl bromides and/or chlorides, infrared spectra of, 22:2042
compressibility of liquid, effects of temperature on isothermal, 23:10212
compressibility of, calculations of, 24:23493
condensation in meteorites, (T), 22:5023
condensation of vaporous, heat transfer coefficient during, 22:25608 (NP-17416)
condensers for, steady state performance of seven-tube, 21:28153 (NASA-TN-D-4020)
content and depth in crustal basalts and granites in USSR, 25:13115
content and distribution in Adams County, Colorado surface soils, 22:27904
content and distribution in earth, method for determination of, 22:23146
content and distribution in sediments of Catalan Continental Shelf, 25:48609
content in Australian granitic rocks, 22:25521
content in australites, isotopic dilution method for determining, 21:32132
content in Baltic Shield rocks, use in age estimation, 22:6474
content in Berea area, Va. quartz monzonite, correlation with aeroradioactivity measurements, 25:29235
content in biological samples, use of lithium-drifted germanium γ spectrometers for determination of, 21:36585
content in BNL area milk, 1965, 22:40258 (BNL-50093)
content in body, whole-body monitor calibration for measurements of, 23:31261(R) (SRRC-29/69)
content in bones, muscles, and organs of cattle and grasses in Panama, effects of fallout from nuclear explosion on, 24:2301
content in Bosumtwi Crater rocks and Ivory Coast tektites, 23:47638
content in Canadian biotites, feldspars, and hornblende, age estimation from, 23:9541
content in Canadian Precambrian Shield, 21:30551
content in coal and uranium miners in relation to silicosis, 21:43381
content in deep sea basalt, use in age estimation, 23:13860
content in dolomites in the Caucasus, 21:22032
content in fish in Clinch River, 21:32652 (ORNL-P-3084)
content in Franciscan graywackes, 23:13861
content in fresh water, effects of, on cesium-137 content in fish, 21:22772
content in fresh water, effects on cesium-137 uptake and excretion by fish, 21:22312
content in gettered liquid oxygen, voltmeter measurement of, 21:43607
content in graywacke sequences in Minnesota and Wyoming, significance of, 25:21196
content in hornblende, use in age estimation, 21:10448
content in Hudson River during July 1965, level changes of, 23:2414
content in human body, statistical survey for whole-body counting of, 25:41833(R) (IA-1218)
content in human organisms, design and performance of scintillation gamma spectrometer for measuring, 21:10671
content in Japanese granite, granodiorite, and rhyolite, 24:7518
content in kimberlites from Siberian Plateau, gamma spectrometric measurements of, 24:27251
content in Kumotani and Mihama granites, 24:9532
content in lake waters and beds, 21:28086
content in leaves of European trees and shrubs, 21:22465
content in lunar rocks, 21:11492(T) (JPRS-38793)
content in man during 1965 and 1966, 21:45618 (ORAU-101, pp 117-19)
content in man, effects of age and sex on, in whole-body and muscles, determination by whole-body, 21:24290 (COO-119-235, pp 107-36)
content in man, use of organic scintillation counters for measuring, 21:28590 (LA-DC-8780)
content in Midwestern USA rainwater from convective storms, 21:43054 (COO-1199-13)
content in Mont-Blanc massif, use of gamma spectrometry for measurement of, 21:171
content in non-muscle tissues of cattle, 21:26409(R) (COO-1171-62)
content in northern California graywackes, 21:39046
content in ocean floor manganese nodules, 23:11666

content in ores, gamma well logging method for measuring, 22:35934
content in patients with pyelonephritis, use of whole-body radiation counters for measuring, 25:29448
content in peridotite inclusions and host basalts, neutron activation analysis and gamma spectrometry methods for determination of, 22:27899
content in prebatholithic central Sierra Nevada rocks, 24:9516
content in Precambrian graywackes from Minnesota and Wyoming, gamma spectrographic measurements of, 24:41425
content in rainwater under sagebrush, effects of foliar interference on, 24:39076 (BNWL-1307(Pt.1), pp 134-5)
content in rocks of Vosges Mountains in France, 23:17570
content in Rotondo granite, radiometric measurements on, 22:10391
content in serum of man, x-ray fluorescence analysis of, 21:28346 (UCRL-70351)
content in soil of Sweden, effects on cesium-137 uptake by plants, 21:22237 (FOA-4-4485-4623)
content in soil, effects of, on cesium-137 and strontium-90 movement, 21:3389
content in soils of northeast and east-central Georgia, 22:48939
content in surface waters in Colorado, 21:22234 (COO-1156-21)
content in terrestrial material, use of gamma spectroscopy for determining, 22:2413
content in UK building materials, 25:47192
content in ultramafic rocks and minerals of western North Carolina, 23:26355
content in upper layer of Caucasian soil, 21:12525
content in upper Mesozoic graywackes in northern Coast Ranges of California, 21:12521 (UCRL-17061)
content in USGS standard muscovite, 21:30536
content in Zhertybai oil deposit on Mangyshlak peninsula, 25:23707
content of adolescent diet in Belgium during 1965 to 1966, 23:26770 (NP-17819, Chap.4)
content of animal tissues in relation to cesium-137 content, 21:43413
content of aquatic plants, 22:19301
content of arthropods on forest floor, 23:9904 (ORNL-4316, pp 71-160)
content of blood, feces, and urine of man, measurement of, 23:17928
content of cabbage, carrots, and potatoes in Russia from 1962 to 1967, effects of fallout on, 24:25471 (A-AC-82/G/L-1294)
content of cereals, seafood, and vegetables in Korean, fallout, 24:697
content of childrens' diet in institutions in USA during 1970, 25:46834
content of crop plants and milk in Sweden during 1963, 25:37785 (FOA-4-4484)
content of diet of adolescents and children in Poland during 1965 to 1966, 24:29742
content of diet of children in 1966, 22:28523
content of diet of children in USA during 1968, 23:33710
content of diet of human adolescents in Euratom countries, 23:7994 (EUR-3945)
content of diet of human adolescents in EURATOM countries during 1965 to 1967, 25:13392 (EUR-3945(Pt.2))
content of diet of human children in USA during 1968, 23:31779
content of diet of isopods, effects of, on cesium-134 metabolism, 22:6759
content of diet, effects of, on cesium-134 retention in rats, 22:28341
content of diet, effects of, on cesium-137 retention by rats, 22:10675 (BNWL-480, pp 21-54)
content of erythrocytes, plasma, and urine of diseased, normal, or pregnant man, 22:51297 (COO-119-238)
content of erythrocytes, use of chromium-51-labeled EDTA for determining, 24:39417
content of fecal samples from astronauts during Apollo 8 and 10 space flights in comparison to normal dietary intake, 24:23191(R) (BNWL-1183-3)
content of fish in White Oak Lake during 1967 to 1969, 24:5978 (ORNL-4445)
content of food in Belgium during 1967, 23:820 (NP-17579, pp IV.1-3)
content of foods and man in Poland during 1965 to 1966, 25:37775 (CLOR-71/D)
content of frog muscle, effects of quinine on, 22:14970
content of Green and Round Lakes, Fayetteville, New York, 22:45182
content of hearts in frogs, effects of, on radiosensitivity, 22:31132
content of human adult and infant diet in Chicago during October, 1970, fallout, 25:16133 (HASL-239, pp III.36-9)
content of human blood, effects of radiotherapy on, 22:45436
content of human body in relation to presence of various disease, use of whole-body counter in measurement of, 24:769
content of human body, calibration of whole-body counter for measuring, 22:38297
content of human body, determination of, using plastic counter, 22:49420
content of human females during pregnancy, use of potassium-40 and whole-body counting to determine, 24:19287 (MIT-952-6, pp 155-63)
content of human finger and toe nail clippings, determination of, for diagnosis of cystic fibrosis, 23:24695
content of human milk, ratio of cesium-137 content to, 22:456
content of human population in Europe, comparison of methods for determining whole-body, 23:47928
content of institutional diet of man in USA during January to March 1968, 23:43778
content of institutional diets for human children in United States during 1967, fallout, 23:12094
content of institutional diets in USA during October to December 1968, 23:45744
content of institutional diets of adults and children in USA during October to December 1969 as compared to annual average content for 1969, 25:13442
content of man in Colorado, whole-body, 22:21460(R) (COO-1171-82)
content of man in Egypt, whole-body, 23:35703 (A-AC-82/G/L-1281)
content of man in relation to intake, use of whole-body counting to determine, 22:38218
content of man in Sweden between 1964 and 1966, effects of age and sex on, 21:45652
content of man with muscular dystrophy, 22:25962(R) (COO-119-236)
content of man, calculation of, using data from whole-body scans of potassium-40, 23:14220 (ORO-2401-27, pp 3-51)
content of man, calibration of Liege whole-body counter for potassium-40 for measuring, 24:544
content of man, calibration of shadow shield whole-body counter to measure total-body, 25:46665
content of man, determination of long-term whole-body, 22:51305 (LA-3848, pp 75-96)
content of man, effects of age and sex on, 22:33804 (A-AC-82/G/L-1193)
content of man, measurement of, by whole-body counting of, 23:6351 (NYO-3446-11, pp 53-60)
content of man, method for determining, 25:10920
content of man, performance of computers for rapid analysis of data from isotope dilution, whole-body counting determination of, 22:19281
content of man, use of isotope dilution and whole-body counters for measuring, 23:50254
content of man, use of potassium-40 tracer and whole-body counting to determine, 24:19325(R) (MIT-952-6)
content of man, use of whole-body scintillation counter for measuring total-body, 25:10910
content of manure in Armenia, effects of content of animal feed on, 24:50803
content of marine organisms and sediments, minerals, rocks, seawater, seston, and soils in Puerto Rico, 22:43311(R) (PRNC-85)
content of milk in Colorado during 1962 to 1967, fallout, 22:21460(R) (COO-1171-82)
content of milk in Colorado, Florida, Tennessee, and Texas during April through June 1968, 23:43778
content of milk in Czechoslovakia during 1965 and 1966, relation of cesium-137 content to, 22:40682
content of milk in Panama Canal Zone, Puerto Rico, and United States during 1963 to 1966, 23:31777
content of milk in relation to strontium-90, statistical analysis of, 25:52059
content of organs in rats, effects of, on uptake of cesium-137, 23:788
content of plant tissues, determination of, by gamma spectrometry and neutron activation analysis, 23:6357
content of plasma of atomic bomb survivors with multiple myelomas, 22:4643
content of Quirke Lake Syncline near Ellion Lake, Ontario, 23:6231
content of rat diet, effects of, on biological half-life of cesium-134 in rats, 24:2547 (NYO-4039-1, pp 47-52)
content of selected food samples from I.A.E.A., Belgium participation in interlaboratory comparison of, 23:26770 (NP-17819, Chap.4)
content of sheep and swine carcasses, in relation to body composition, multi-method analysis of, 23:22207
content of soil of east central and northeast Georgia, natural, 24:17040
content of soils, effects of, on uptake of cesium by sudan grass, 22:33745
content of stable, in human diet and urine in Japan during 1967, 23:18026 (JAERI-5017, pp 149-53)
content of surface waters of British Isles during 1961 to 1966, effects of, on cesium-137 content of flesh of brown trout, 22:28460
content of tissues of Anadara granosa, in relation to weight, 23:26682
content of tissues of cattle, 22:43235
content of urine of rats in relation to sodium content for detection of biological stress, tracer study of, 24:31797
content of water, effects of, on strontium-89 accumulation by brown algae, 22:43232
content of wheat in Czechoslovakia in 1966, 23:823
content of wheat, determination of, 24:41866
content of whole milk from environs of Douglas Point Reactor site and Whiteshell Nuclear Research Establishment during 1967, 23:819 (NP-17444)
content of whole milk in Canada and Pan America during June 1968, 23:43778
content of, in man, tracer method for measurement of, 21:1772(R) (ORO-2401-8)
content of, in man, tracer method for measurement of, 21:1772(R) (ORO-2401-8)
content of, in milk in USA, 21:12849
content of, in plants, sediments, and water of Rybinsk reservoir, 21:8475(T) (AEC-tr-6641, pp 64-71)
content of, in plasma of burros following irradiation of torso only and whole body, fast neutron, 21:8681
content ratio to cesium-137 in rat muscles and whole body, 21:22352
content ratio to sodium in urine of rats as indicator of biological stress, tracer study of, 25:27029
content relative to cesium-137 in human diet and transport through maternal milk, 25:26581
corrosive and erosive effects on Rankine cycle construction alloys, 23:18190
corrosive and erosive effects on turbine blades, facility for testing, 22:4738
corrosive and penetrating effects on niobium and tantalum at 600°C, relations with oxygen content, 24:23430 (ORNL-TM-2836)
corrosive and penetrative effects on niobium at 600°C, 24:44658 (ORNL-4560, pp 200-12)
corrosive effects at 600°C on niobium, relations with oxygen content, 23:24793 (ORNL-4390, pp 85-109)
corrosive effects at high temperatures on reactor materials, review of, 23:20465
corrosive effects of boiling, on niobium—zirconium alloy in Rankine cycle test loop, effects of zirconium hot trap on, 25:2624
corrosive effects of boiling, on refractory metal alloys, 21:30968
corrosive effects of flowing, on refractory alloys at 1200 to 1600°F, 23:29966 (ORNL-TM-1361)
corrosive effects of high-velocity vapors of, on Haynes 25 alloy, Type 316 stainless steel, and TZM alloy, 24:4398 (ORNL-TM-2595)
corrosive effects of in-loop flowing vaporous, on niobium-base—zirconium alloys at 682 to 1082°C, 23:6641 (ORNL-4301)
corrosive effects of liquid, 21:11179
corrosive effects of liquid on D-43 alloy at 2100°F, effects of stress on, 21:20471(R) (NASA-CR-54844)
corrosive effects of liquid, on niobium—zirconium alloys and Type 316 stainless steel, (E), 22:32926 (GMAD-3078-32(Vol.2))
corrosive effects of liquid, on niobium-base alloy, 21:14793
corrosive effects of liquid, on niobium-base alloys at 2000°F, 21:6758(R) (R-66-SD-3015)
corrosive effects of liquid, on properties and structure of niobium—zirconium and AISI Type-316 stainless steel, 21:14820(R) (GMAD-3643-8)
corrosive effects of liquid, on reactor materials, review of, 21:40710
corrosive effects of liquid, on refractory alloys at high temperatures, 21:9055 (ORNL-P-2655)
corrosive effects of liquid, on refractory metals at high temperatures, 21:4898 (BNL-10723)
corrosive effects of liquid, on tantalum at 1800°F, 22:23719
corrosive effects of oxygen-containing, on niobium and tantalum at 600 to 1000°C, 23:8111 (ORNL-4370, pp 76-84)
corrosive effects of vaporous, on supersonic turbine, 21:18209 (SAN-595-2)
corrosive effects of vapors of, on molybdenum trioxide and tungsten trioxide, under 500°C at low pressures, 21:43628
corrosive effects of working fluid of, on nickel heat pipe, (E), 25:8395 (ORNL-TM-3077)
corrosive effects of, on refractory materials, development and testing of loop for evaluating, 21:13107(R) (N-66-38146)
corrosive effects on aluminum oxide and beryllium oxide at 870°C and 2 atm pressure, 22:36521
corrosive effects on beryllia and yttria at 1600°F, 21:26747(R) (NASA-CR-54358)
corrosive effects on brazed ceramic—metal joints at 1600°F, 21:26747(R) (NASA-CR-54358)
corrosive effects on Cb-132m, Mo-TZC, and T-111 alloys, loop tests on, 23:48323(R) (N-69-32032)
corrosive effects on ceramic fuels, review on, 23:45991
corrosive effects on D-43 alloy at 1100 to 1400°C, 23:14297 (ORNL-4323)
corrosive effects on D-43 alloy at 1370°C in loop tests, 23:20469 (ORNL-4350, pp 87-139)
corrosive effects on fuel cladding, review on, 21:30305
corrosive effects on heat-resisting alloys and metals, review on, 23:41537
corrosive effects on heat-resisting alloys for use in Rankine cycles, 21:45865 (ORNL-TM-1964)
corrosive effects on heat-resisting metals at high temperatures, 23:8111 (ORNL-4370, pp 76-84)
corrosive effects on materials for Rankine power cycle materials, review of, 24:46702
corrosive effects on molybdenum, niobium, and tantalum alloys, 22:647(R) (BNL-50077)
corrosive effects on niobium at 1100 to 1400°C, 23:12260(R) (ORNL-4330)
corrosive effects on niobium at 600°C, relations of oxygen with, 24:2888
corrosive effects on niobium, effects of interstitial oxygen on, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
corrosive effects on niobium- and tantalum-base alloys at 1800 to 2400°F, 23:48337
corrosive effects on niobium—1 percent zirconium alloy at 815°C, effects of oxygen on, 21:13109 (ORNL-3970, pp 81-4)
corrosive effects on niobium—tungsten—zirconium alloys, effects of stresses on, 21:20469
corrosive effects on niobium-base alloys and stainless steel in loops at 1200 to 1600°F, 23:24806
corrosive effects on niobium-base—zirconium alloys at 1100 to 1400°C, 23:14297 (ORNL-4323)
corrosive effects on niobium-base—zirconium alloys at 1100 to 1400°C, 23:12260(R) (ORNL-4330)
corrosive effects on refractory alloys at high temperatures, 22:8695 (ORNL-4170, pp 93-6)
corrosive effects on refractory metals at 1000 to 1300°C of liquid, analysis of, 22:30388
corrosive effects on refractory metals at 1100 to 1400°C, 24:4719
corrosive effects on rhenium—tungsten alloys at 1100 to 1400°C, 23:12260(R) (ORNL-4330)
corrosive effects on T-111 alloy at 1100 to 1400°C, 23:14297 (ORNL-4323)
corrosive effects on T-111 alloys, stress, 22:38535(R) (N-68-11650)
corrosive effects on tantalum at 600, 800, and 1000°C, 23:12260(R) (ORNL-4330)
corrosive effects on tantalum-base alloys ASTAR 811 and ASTAR 811CN, 21:20474(R) (NASA-CR-72177)
corrosive effects on tungsten and TZM at 1100 to 1400°C, 23:12260(R) (ORNL-4330)
corrosive effects on Type 316 stainless steel at 1400 to 1600°F, 23:29966 (ORNL-TM-1361)

corrosive effects on TZM alloy at 1100 to 1400°C, 23:14297 (ORNL-4323)
corrosive effects on TZM alloy at 1200 to 1600°F, 23:29966 (ORNL-TM-1361)
creep in, activation energies and activation volumes for, 21:16604
creep in, activation energy for, 23:8198
critical points for liquid, tabulation of data on, 23:49572 (ANL-7410, pp 229-337)
critical temperatures and vapor density of, 22:19521 (UCID-15269)
crystal stacking fault energies at 90°K, 22:38570
crystal structure of, calculation of amplitude of thermal vibrations at melting point for determination of, 24:1044
Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
defect configuration and migration in, calculations for point, 24:6640 (CEA-R-3849)
deficiency in hearts isolated from frogs, effects of, on activity, 22:15068
densities of liquid and vaporous, γ radiation technique for measuring, 21:16081
density distribution at twilight in upper atmosphere, (E), 23:16743
density of liquid and vapor, to critical point, method for estimation of, 22:51173
deposition from nonaqueous solvents, rotating disk electrode system for, 22:25226 (UCRL-17957)
deposits in Poland, radiometric well logging location of, 22:48923
detection in sodium chloride crystals by nuclear quadrupole resonance, 21:7032
detection of atomic beams of, up to 500 eV, surface ionization detectors for, 25:32232
detection of, performance of atomic absorption spectrophotometer for, 22:37666
determination as impurity in amorphous boron, spectrographic, 22:16429
determination as impurity in boron by x-ray fluorescence, 21:34215(R) (UCRL-50006-67-1)
determination as impurity in boron, comparison of methods for, 23:28673(R) (UCRL-50006-69)
determination as impurity in gallium arsenide, activation, 22:1969
determination as impurity in graphite by neutron activation and radiochemical separation, 24:13789
determination as impurity in thin films of rhenium, method for, 23:19640
determination as impurity in thorium and thorium dioxide, spectrographic, 22:1994
determination as impurity in uranium oxide (U_3O_8), spectrochemical method for, 22:50937
determination as microimpurity in gallium arsenide by neutron activation methods, 21:45062
determination as tetraphenyl borate by ir spectrophotometry, 25:31814
determination as trace impurity in silicon oxide by activation, ion-exchange chromatography, and gamma spectrometry, 22:12227(T) (AD-662383)
determination at face of mines, beta-backscattering method for, 22:28194
determination at ground level by aerial surveying, analysis of scintillation gamma spectrometer data for, 23:35505
determination at ground level by aerial surveying, scintillation gamma spectrometer for, 23:35512
determination at ground level by aerial surveying, scintillation gamma spectrometer for, 23:35511
determination at ground level by aerial surveying, gamma spectrometer for, 23:35506
determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
determination by activation and ion exchange, method for, 21:42876
determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
determination by atomic absorption flame photometry, 23:7467
determination by atomic absorption spectrometry, 24:38736
determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
determination by atomic absorption spectroscopy, 24:22665(R) (AECL-3521)
determination by atomic absorption, optimum conditions for, 24:2106
determination by computerized instrumental neutron activation method, 23:15827
determination by counting natural radioactivity, 22:10178
determination by double-cell coulometry, 25:23519
determination by gamma photon activation, effects of energy on curve for, 25:46466
determination by gamma well logging, conversion factor for, 25:21197
determination by helium-3 activation analysis, sensitivities for, 21:25787
determination by neutron activation methods, 24:2158
determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
determination by neutron activation, method for, 24:11498
determination by neutron detection following alpha reactions (α,n), 22:7994(T) (ANL-Trans-543)
determination by photon activation, reactions and sensitivities for, 25:10488 (CEA-R-4072)
determination by photon activation, sensitivity for, 23:15826
determination by photoneutron counting, activation, 22:24788 (IA-1128, pp 55-77)
determination by potentiometric titration with sodium tetraphenylboron using Orion liquid ion exchange lead-selective electrode, 25:2104
determination by x-ray fluorescence methods, 22:1957 (ORNL-IIC-10(Vol.1), pp 336-55)
determination following nonsulfide separation from elements, qualitative, 25:2101
determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in agricultural samples by neutron activation, 23:28768
determination in agricultural samples by neutron activation methods, 22:39990 (TID-24581)
determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
determination in air by neutron activation, 25:39440 (COO-1705-9)
determination in air particulates by spark source mass spectrometry, 25:8208
determination in air pollution particles by computer-assisted neutron activation methods, 24:38790
determination in airborne dust samples by neutron activation, 25:31854
determination in airborne particulates by neutron activation, 25:8231
determination in airborne particulates from industrialized areas by neutron activation, pollution distribution studies from, 25:31872
determination in Allende meteorite by neutron activation and γ spectrometry, 23:31308
determination in animal and plant tissues by neutron activation and multidimensional γ spectrometry, 23:11444 (BNWL-481-2, pp 1-126)
determination in aquatic plants by neutron activation, 23:24111(T) (AEC-tr-7041)
determination in barley, corn, and wheat seeds by neutron activation in IAN-R1 research reactor, 24:38770 (PRNC-135, pp 93-7)
determination in biological materials and organic compounds by neutron activation and radiochemical separation, 25:15531
determination in biological materials by atomic absorption spectrophotometry, 23:9310
determination in biological materials by neutron activation, 23:40607
determination in biological materials by neutron activation methods, 22:35766
determination in biological materials by neutron activation techniques, 22:44972 (BNWL-SA-2010)
determination in biological materials by neutron activation and scintillation counting, 25:48492
determination in biological materials, automatic separation system for, 22:8020
determination in biomedical samples by neutron activation, 23:45220 (ANL-7535, pp 246-9)
determination in bismuth—tellurium ore, 22:18721
determination in blood by epithermal or thermal neutron activation, 23:45609 (CNM-R-2(Vol.2), pp 797-825)
determination in blood by neutron activation methods, 22:12259
determination in blood by neutron activation, separation process for potassium-42 following, 21:23832
determination in blood serum and inner ear fluid of man by neutron activation, 22:21406 (KFKI-6/1967)
determination in blood, bone, and hair by thermal neutron activation and γ spectrometry, 23:24133
determination in blood, bone, hair, and plant tissue by neutron activation and γ spectroscopy, 24:115
determination in blood, food, organs, and tissues of Columbia River trout by neutron activation, 23:49748 (BNWL-1051(Pt.2), pp 142-6)
determination in bones by detection of capture γ rays, 24:5606
determination in boreholes, performance of LSU-5K pulse analyzer for, 24:2523
determination in boron after ion exchange separation, spectrochemical methods for, 22:22935 (SC-RR-68-138)
determination in Bosumtwi Crater rocks and Ivory Coast tektites by γ spectrometry, 23:47638
determination in Buchanan Granite Massif, Texas by γ spectrometry, 23:19673
determination in bulk samples by neutron inelastic scattering, 23:13655 (UCRL-14654(Rev.1))
determination in calcined blood samples by detection of capture γ rays, 24:5606
determination in Candida by activation methods, 24:27017
determination in carbonates, oxides, phosphates, silicates, or sulfates by electron probe method, correction factors for, 24:48035
determination in Cenozoic basalts, andesites, and dacites from the Kurile Islands and the lesser Caucasus by gamma spectrometry, 25:20935
determination in cesium and rubidium salts by neutron activation methods, 21:35886
determination in chloride and nitrate media using sodium cyanotriphenylborate, gravimetric, 22:18707
determination in chondrites and achondrites, (E), 23:22710
determination in clay and glass by measurement of β and γ radioactivity, 22:25272
determination in clinical standard sample of calcium carbonate by neutron activation and radiochemical separation, 24:46198(R) (NBS-TN-508)
determination in coal by thermal-neutron activation, 21:35869
determination in curium oxide and americium oxide—curium oxide systems, 25:39408 (DP-1268)
determination in earth's surface by airborne γ spectrometric method, 23:24104
determination in environmental samples by gamma spectrometry, 21:30352 (PHS-999-RH-27)
determination in environmental samples, procedures for, 24:5583 (EUR-4388)
determination in fallout from first Chinese nuclear explosion, 23:40880(T) (UCRL-Trans-10360)
determination in fecal samples from Apollo 7 and 9 astronauts by neutron activation and γ-spectrometry, 24:23051(R) (BNWL-1183-2)
determination in feldspar by neutron activation and γ spectrometry, 25:54494
determination in feldspar by neutron activation γ spectrometry, 23:24120
determination in feldspars, 23:13631
determination in fertilizers, review on methods for, 25:31776
determination in food by gamma spectrometry, 21:30352 (PHS-999-RH-27)
determination in geologic materials, equipment and procedures for, 21:39030(R) (COO-689-76)
determination in geologic materials, equipment and procedures for, 22:48914(R) (COO-689-100)
determination in geologic samples, photonuclear activation, 21:35861
determination in geological material by neutron activation methods, 23:11474
determination in geological samples by neutron activation and γ spectrometry, 23:37933
determination in glacial waters by ion-sensitive electrode method, 25:34721(R) (NYO-3912-3)
determination in glacial waters by ion-sensitive electrode method, 25:34722(R) (NYO-3912-4)
determination in glass by atomic absorption spectrometry, 25:6260 (CEA-N-1341, pp 3-93)
determination in gneisses, granites, and pegmatites of SE Mysore, India by γ spectrometry, 23:43255
determination in graphite by spark source mass spectroscopy, 21:40772 (IS-1600, Paper 3)
determination in graphite, molybdenum, and tungsten by neutron activation methods, 22:16387 (CEA-R-3267)
determination in high-purity plutonium by anion exchange separation and graphite-spark excitation, 21:25771 (LA-DC-8507)
determination in human blood and tumor tissues by bremsstrahlung and neutron activation without chemical separation, 23:4558
determination in human blood by 16-MeV bremsstrahlung activation and γ spectrometry, 24:38771 (PRNC-135, pp 167-82)
determination in human erythrocytes and plasma by neutron activation methods, 21:19548
determination in human liver by neutron activation and γ spectrometry, 25:2124 (IAEA-122, pp 15-26)
determination in human muscle by neutron activation, 23:4570
determination in human phantoms simultaneously with calcium, chlorine, phosphorus, and sodium by 14-MeV neutron activation and γ spectrometry, 25:44818
determination in human tissues by prompt-neutron activation, 25:39454
determination in human tissues by thermal neutron activation, sensitivity of, 25:2123 (IAEA-122, pp 1-13)
determination in human whole blood by neutron activation, 23:24135
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in iron meteorites, 22:35749
determination in iron meteorites by neutron activation methods, 22:42618
determination in iron ores and slags, fast-neutron reactions for activation, 21:19537 (MG/D-329/65)
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in lunar rocks and soil from Apollo 11 by neutron activation and radiochemical separation, 24:20734
determination in lunar rocks and soil from Apollo 11 by neutron activation, 24:20733
determination in lunar rocks from Apollo 11 by neutron activation and spectral methods, 24:20735
determination in lung tissue from uranium miners by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination in magmatites by γ spectroscopy, 23:37913
determination in mammalian inner ear fluids and serum by neutron activation, 23:4565
determination in man, calibration comparisons of whole-body counters for, 24:27338 (CONF-690540-, pp 416-22)
determination in manganese nodules by atomic absorption spectroscopy, 22:16390 (COO-1540-8)
determination in meteorites and rocks by activation and γ spectrometry, 25:54
determination in mica, 23:13631
determination in mica by x-ray spectrography, 23:13631
determination in microplanktons by neutron activation and γ spectrometry, 24:162
determination in milk, methods for, 21:30352 (PHS-999-RH-27)
determination in mineral deposits undersea by neutron activation using californium-252 and γ spectrometry, 25:48468 (CONF-710402-(Vol.3), pp III.7-19)
determination in minerals and rocks, use of suspensions in flame spectrophotometric, 23:19639
determination in minerals by spectroscopy, 24:41198
determination in minerals, radiogravimetric, 21:19567
determination in molybdenum or tungsten, activation, 21:17573
determination in nails by neutron activation and β and γ spectrometry, screening for cystic fibrosis based on, 24:121
determination in natural waters from uranium mining operations, method for, 25:18339 (CEA-R-3557(2))
determination in neoplastic and normal tissues by neutron activation and radiochemical separation, 24:29233
determination in niobium or niobium oxides by activation and ion exchange separation, 23:11472
determination in nonferrous metallurgical materials, review of methods for, 21:21903
determination in nuclear graphite by neutron activation, 23:11445 (CEA-CONF-1057)
determination in ocean water at two Atlantic stations, atomic absorption method for, 22:27563

determination in oceanic and continental peridotite nodules by neutron activation, 22:50947
determination in oceanographic samples by 14-MeV neutron activation and γ spectrometry, 25:2119 (CONF-700322-, pp 221-30)
determination in paints by neutron activation and γ spectrometry, 25:39458
determination in paints by neutron activation methods, 22:16399 (GA-8171, pp 133-44)
determination in petroleum by neutron activation and γ spectrometry, 25:46452
determination in petroleum cracking catalysts by x-ray fluorescence methods, 23:7469
determination in Pisum by thermal neutron activation and γ spectrometry, 23:26195 (RT/CHI-(69)1)
determination in plant tissue by neutron activation and γ spectrometry, 24:123
determination in plant tissues by neutron activation and beta counting or gamma spectrometry, 21:38922
determination in plants by neutron activation methods, 21:40779
determination in plutonium by absorption spectrophotometry and mass spectrometry, 25:28916 (CEA-R-4071)
determination in plutonium dioxide using α-reaction γ spectra, 22:18704
determination in plutonium dioxide, cathode region method for direct spectrochemical, 24:38731
determination in plutonyl compounds by ion exchange—tetraphenylborate method, 24:26941
determination in polluted river water by neutron activation and γ spectrometry, 25:31852
determination in potassium tungsten bronze by neutron activation and γ spectrometry, 25:46453
determination in potassium tungsten bronze by neutron activation methods, 24:13776 (IS-T-341)
determination in pottery clays by neutron activation methods, 22:4002 (UCRL-17937)
determination in powdered thermal water residues, mass spectrographic, 25:51369
determination in presence of cesium and rubidium by atomic absorption spectrophotometry, 23:17326
determination in presence of thorium and uranium, radiogravimetric, 24:13757
determination in quartz by neutron activation, 23:35025 (NBS-TN-458)
determination in radioactive wastes by atomic absorption, 21:30345(R) (IN-1063)
determination in reactor coolant water, method for, 21:18301(R) (IN-1048)
determination in rhyolite, performance of lithium-drifted germanium detector for activation, 21:35868
determination in rice plants by neutron activation, 22:33286
determination in rice plants by neutron activation methods, 22:50
determination in rice seeds by neutron activation, 23:4554
determination in river water by neutron activation, 24:38786
determination in Roanoke River water by neutron activation and γ spectrometry, 25:57395
determination in rocks and meteorites by neutron activation and radiochemical separation, 24:144
determination in rocks and minerals by gamma spectroscopy of potassium-40, 23:35020
determination in rocks and soils by neutron activation and radiochemical separation, 24:43973
determination in rocks and waters by atomic absorption and flame spectroscopy, 24:36141 (ARH-1609)
determination in rocks by gamma spectrometry using lithium-drifted germanium detector, 23:26190
determination in rocks by gamma spectroscopy, 24:36179
determination in rocks by γ spectroscopy or x-ray fluorescence, 24:13774
determination in rocks by high-resolution gamma spectroscopy, 22:44980 (NYO-3756-2, Sect. G)
determination in rocks by neutron activation, 23:47413
determination in rocks by neutron activation and γ spectrometry, 24:138
determination in rocks by neutron activation and γ spectrometry, 24:16459
determination in rocks by neutron activation and radiochemical separation, 24:29
determination in rocks of Canadian Shield, computer pulse analyzer system for analysis of gamma spectra from aerial surveying for, 22:28241
determination in rocks, fast-neutron activation method for, 21:25806
determination in rocks, x-ray fluorescence, 21:34215(R) (UCRL-50006-67-1)
determination in salmon tissues by neutron activation methods, 22:37642 (BNWL-SA-1776)
determination in samples by x-ray spectrography, 23:18 (WAPD-321)
determination in scandium, spectroscopic, 22:18727
determination in seawater by difference chromatography, 25:39422
determination in selenium by neutron activation and radiochemical separation, 24:5643
determination in selenium by neutron activation and radiochemical separations, 23:35050
determination in semiconductors and quartz by neutron activation methods, 21:35901
determination in serum and urine by flameless atomic absorption spectroscopy, 25:10464
determination in silicate materials by isotope dilution methods, separation scheme for, 23:2213
determination in silicate minerals, tobacco leaves, and water by ion exchange chromatography and atomic absorption spectrometry or gravimetry, 23:4737
determination in silicate rocks and silicates by ion-exchange chromatography and atomic absorption spectrometry, 25:19
determination in silicates by flame photometry, 22:22960
determination in silicon by thermal neutron activation and radiochemical separation, 25:15547
determination in single crystals of titanium oxide by neutron activation and radiochemical separation, 24:22
determination in sodium by flame spectrophotometry, 25:4 (BNWL-MA-76(Rev.2))
determination in sodium by flame spectrophotometry, 25:31764 (ANL/ST-6)
determination in soil, 24:2270
determination in soil and construction materials, energy-range method and scintillation gamma spectrometer for, 23:673
determination in soil and soil extracts by emission spectroscopy, 23:13619 (CEA-CONF-1182)
determination in soil by atomic absorption spectrometry, 23:47408
determination in soil solutions, activation, 22:1998
determination in soils, 24:4217
determination in soils, plants, and fertilizers by gamma spectra from potassium-41, 22:18697
determination in solid propellants by neutron activation and γ spectrometry, 24:156
determination in solid rocket propellants by neutron activation and gamma spectroscopy, 25:57384
determination in solutions and solids by scintillation counting, 23:13658
determination in solutions by flame emission, 21:34215(R) (UCRL-50006-67-1)
determination in solutions using ring oven method, complexometric, 23:21648
determination in spark discharges, limits and sensitivity for spectroscopic, 21:40772 (IS-1600, Paper 3)
determination in standard and ultramafic rocks by neutron activation and radiochemical separation, 23:37921
determination in standard plant material by neutron activation and γ spectrometry, 23:49745 (BNWL-1051(Pt.2), pp 131-4)
determination in stony meteorites, (E), 23:22711
determination in surface water samples, flame photometric method for, 22:51084 (SZS-8/68)
determination in syenite rock by x-ray emission method, 23:6060
determination in tektite by spark source mass spectrometry, 25:10455
determination in thallium by neutron activation and solvent extraction separation, 23:4535
determination in thorium oxides and zirconium oxides, direct spectrochemical method for, 23:21638
determination in tissues by neutron activation methods, 22:10200
determination in tissues of Pacific Ocean salmon by neutron activation and γ spectrometry, 23:49749 (BNWL-1051(Pt.2), pp 146-51)
determination in titanium and titanium dioxide by neutron activation, 25:8233
determination in titanium by neutron activation and radiochemical separations, 23:31318
determination in trichloromethylsilane by activation—extraction method, 21:35854
determination in tungsten bronzes by activation methods, 21:35844 (IS-T-156)
determination in tungsten bronzes by neutron activation and γ spectrometry, comparison of detectors for, 24:67
determination in tungsten filaments by neutron activation and ion exchange, 23:4583
determination in tungsten filaments, activation, 21:38911
determination in ultrabasic rocks by neutron activation, 22:48842
determination in uranium and its compounds by atomic absorption spectroscopy, 22:16411 (GAT-507)
determination in uranium and uranium compounds by atomic absorption, 22:45014
determination in uranium oxides by spectroscopy, 24:13729 (NIM-450)
determination in uranium solutions by atomic absorption spectrophotometry, 23:37873(R) (NBL-247)
determination in various materials by neutron activation, 23:24113 (CONF-670649-1)
determination in various samples by gamma scintillation counting, 23:13659
determination in vegetal materials by fast and thermal neutron activation, 23:9327
determination in water by neutron activation and radiochemical separation, 24:48048 (BNWL-1307(Pt.2), pp 17-19)
determination in zinc by atomic absorption, 24:11549 (IA-1190, pp 93-122)
determination in zone-refined tungsten, mass spectrographic, 22:25316
determination of a visual complexometric, 22:33273
determination of abundance relative to sodium in human perspiration by neutron activation, 24:11467
determination of distribution of traces of, between pyroxenes and host lava, activation, 22:50939
determination of exchangeable, in soils, use of rubidium-86 as tracer for, 21:39047
determination of extracellular, in man, radioisotope dilution method for, 25:57924
determination of neutron-activated, in biological samples, 21:4475
determination of ratios of, to cesium in aquatic organisms, 21:8669(R) (CONF-660507-34)
determination of total body, by isotope dilution methods, 24:13763
determination of trace amounts of, by inverse voltammetry, 24:41203
determination of trace amounts of, evaluation of methods for, 23:47382
determination of trace amounts of, in air by neutron activation and γ spectrometry, 25:54456
determination of trace amounts of, in airborne marine dusts and pumice by neutron, photon, and proton activation, 25:31873
determination of trace amounts of, in beryllium and uranium, spark mass spectrometric, 21:34227
determination of trace amounts of, in Columbia River water by neutron activation and radiochemical separation, 23:49747 (BNWL-1051(Pt.2), pp 137-41)
determination of trace amounts of, in deep sea sediments by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in high-purity selenium by neutron activation, 23:45224
determination of trace amounts of, in human lungs by neutron activation and γ spectrometry, 23:49742 (BNWL-1051(Pt.2), pp 6-9)
determination of trace amounts of, in lithium fluoride, arc excitation and spectrographic method for, 24:46173 (BARC-496)
determination of trace amounts of, in liver tissue in salmon by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in lunar dusts and rocks from Apollo 11 by neutron activation, 24:20737
determination of trace amounts of, in lunar rocks and soil from Apollo 11 by neutron activation, 24:20736
determination of trace amounts of, in lunar rocks and soils from Apollo 11 by mass spectrometric isotope dilution, 24:20721
determination of trace amounts of, in minerals and rocks by atomic absorption spectrophotometry, 25:10458
determination of trace amounts of, in molybdenum, review on, 25:10459
determination of trace amounts of, in muscle tissues by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in nuclear-grade uranium oxide (U_3O_8) by direct reading spectrometric method, 25:2068 (NLCO-1071)
determination of trace amounts of, in phosphate rock, cathode-region method for spectrochemical, 24:2109
determination of trace amounts of, in plutonium by atomic absorption spectrophotometry without preliminary separation, 25:48442
determination of trace amounts of, in rocks and sand by thermal neutron activation, ion exchange, and γ spectrometry, 25:10492
determination of trace amounts of, in rocks by atomic absorption spectrophotometry, 23:28673(R) (UCRL-50006-69)
determination of trace amounts of, in salmon muscles by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in simulated lunar glass by neutron activation and radiochemical separation, 24:46198(R) (NBS-TN-508)
determination of trace amounts of, in standard rocks by flame photometry, 25:10671
determination of trace amounts of, in surface air by nondestructive neutron activation, 25:51414
determination of trace amounts of, in tea plants by neutron activation, 25:20960
determination of trace amounts of, in thorium dioxide using quantometer, spectrometric, 25:6265 (NLCO-1078)
determination of trace amounts of, in tobacco leaf and smoke condensate by neutron activation and γ spectrometry, 25:39463
determination of trace amounts of, in ultramafic rocks by thermal neutron activation and γ spectrometry, 25:54496
determination of trace amounts of, in zone-refined germanium by spark source mass spectrometry, 24:43934(R) (AECL-3556)
determination of traces of, in blood by activation methods, 21:12301
determination of traces of, in human tissue, activation, 21:5834 (IA-1082, pp 77-202)
determination of, calibration of portable gamma spectrometer for field, 24:46506
determination of, comparison of chemical and counter methods for, 23:22211
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, gamma spectrometer for whole-body, 24:29219
determination of, gamma spectrometer for whole-body, 24:29218
determination of, in aluminum by flame photometry, 21:2967
determination of, in blood plasma and urine by isotope dilution, 21:5834 (IA-1082, pp 77-202)
determination of, in field by gamma spectroscopy, 22:2414
determination of, in hair and nails of children with cystic fibrosis by activation methods, 21:6566
determination of, in liquid fertilizers and solid potassium salts by scintillation counting of potassium-40, 21:8205
determination of, in placental tissues, activation, 21:10254(R) (TEES-2671-5)
determination of, in plant samples, solubilization method for, 21:14150 (UCLA-12-613)
determination of, in reactor waters, spectrochemical, 21:5834 (IA-1082, pp 77-202)
determination of, preparation of multilayer electrodes for, 21:42915(R) (NYO-2279-3)
determination of, sensitivity for 18-MeV helium-3 activation, 21:12285(R) (ORNL-4039)
determination of, spectrographic, 21:5748 (JEN-163-DQ/I-56)
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination simultaneously with sodium, photometric, 24:33584 (LA-4414)
determination simultaneously with sodium, polarographic, 22:30547
determination using ion permselective membrane, potentiometric, 25:28956

deuteron reactions at 1 to 20 keV with vapor of, cross sections for one- and two-electron charge exchange in, (E), 24:28093
deuteron reactions at 1 to 20 keV with vapor of, yields of negative ions from charge exchange in, (E), 23:41977
dielectric constant of, imaginary part of, (E), 24:40183 (ORNL-4446, pp 177-96)
difference in Streptococcus faecalis, effects of antibiotics on, 21:39335
diffusion in aqueous solutions of sodium p-ethylbenzenesulfonate, coefficients for, 24:48066 (ORNL-4581, pp 90-130)
diffusion in biological membranes, physicochemical processes in, 25:23981(T) (AEC-tr-7195, pp 267-70)
diffusion in ion exchanger Dowex 50 W, kinetics of, 22:40100
diffusion in mercury, coefficients of, 22:21688 (COO-1352-25)
diffusion in molybdenum crystals at 800 to 1100°C, 21:31018
diffusion in molybdenum, review, 22:21651
diffusion in niobium crystals at 900 to 1100°C, 21:31018
diffusion in oxygen-containing niobium and tantalum at 600°C, 25:2707
diffusion in sodium at 0 to 98°C, tracer studies of, 22:17121
diffusion in, activation energy for self-, 23:8198
diffusion of gold in, at 6 to 53°C, gold-198 tracer measurements of, 24:17304
diffusion of niobium at 1000 and 1250°C in, 23:12260(R) (ORNL-4330)
diffusion of sodium in, at 0 to 64°C, tracer studies of, 22:17121
diffusion of, in water, structural studies on, 21:8252
dislocations in cubic crystals of, stress and dilatation fields of (111), (E), 21:25189
distribution and movement in morainal soils of Bench Valley, California, gamma spectrometric studies on, 24:2308
distribution in Australian continental shield, vertical, 21:19776
distribution in barley, soybeans, and wheat during development, 25:42322(R) (COO-1097-46)
distribution in Conway granite in New Hampshire, effects of weak hydrothermal fluids on, 24:302
distribution in earth mantle basic rocks, 22:2201
distribution in Ethiopian lavas, geochemistry of, 23:29027
distribution in food chains in forest ecosystems, 22:6772 (ORNL-4168, pp 61-118)
distribution in giant axon of lobster, relation of, to nerve impulse, 21:20109
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution in Italian volcanic rocks, effect of volcanic processes on, 22:30729
distribution in metal transfer process for fission product removal from MSBR fuel solvent, 25:54534 (ORNL-4717, pp 43-56)
distribution in metal transfer process for removing rare earths from MSBR fuel solvent, 25:15625 (ORNL-4622, pp 60-118)
distribution in New Hampshire granite, 22:2199
distribution in Salton Sea ecosystem, 25:49125
distribution in tholeiitic-basaltic formations in Siberia, γ spectrometric studies on, 25:48670
distribution in U.S. Atlantic and Gulf beach sands, 22:2202
distribution of, between its aqueous solution and metallic hexacyanoferrates, 21:15909
effect of concentration of, on response of smooth muscle from guinea pig ilea and rat uteri to acetyl choline, angiotensin, and bradykinin, 21:12801
effects as vapor on performance of low-pressure thermionic converters, 22:11292 (ANL-7377)
effects of additions of, on electric field in plasma jets, (E), 23:12804
effects of adsorbed, on electron emission from ion-bombarded molybdenum, 24:24131
effects of compounds of, on bubble formation during annealing of doped tungsten, 25:55511
effects of dietary, on metabolism of cesium-137 by rats, 23:6362
effects of hydrated ions of, on hydrolysis of 2-fluoro-2-methylpropane, 24:18968
effects of liquid, on fragmentation of molten metals, 21:5598 (ANL-7125, pp 150-99)
effects of liquid, on grain boundary grooving of iron, 21:7885(R) (NAA-SR-12175)
effects of liquid, on transfer of carbon and nitrogen interstitials to niobium—zirconium alloy and stainless steel, 21:14792
effects of soil, on cesium-137 uptake by red clover in Sweden, 21:24292 (FOA-4-4321-4623)
effects of soil, on uptake of cesium-137 by barley, 21:12761
effects of, on cesium-137 uptake by fresh-water mussels, 21:16298
effects of, on neutron-activation determination of fluorides in water, 21:12371
effects of, on nitrogen isotope fractionation in liquid ammonia, 21:6010
effects of, on nitrogen isotope fractionation in liquid ammonia, 21:6010
effects of, on phosphorus uptake by cotton leaves in presence of phosphorus-32, 21:11123
effects of, on sorption of curium-242 by platinum surfaces, 21:8256
effects of, on uptake of cesium-137 and strontium-85 from nutrient medium or soils, 21:1722
effects on absorption of sodium-22 by barley roots, combined effects of calcium on, 21:24326
effects on accumulation and transport of potassium-42 in leaves, stems, and roots of corn, 25:10930 (CEA-CONF-1517)
effects on β- and γ-radiosensitivity of activity of frog heart, 22:15059
effects on calcium-45 and strontium-89 uptake by oats, 21:26379
effects on calcium-45 in vitro uptake and retention by smooth muscle of guinea pigs, 22:51339
effects on calcium-45 uptake by cardiac and skeletal muscles, 23:50307
effects on cation balance and metabolic rate in rats, 22:21460(R) (COO-1171-82)
effects on cesium absorption on marine sediments, 22:21222
effects on cesium emission intensity in hydrogen flames with various mixtures of nitrogen—oxygen, 22:27573
effects on cesium fixation and sorption by layer silicate minerals, 22:35923(R) (NYO-2955-15)
effects on cesium fixation on hydrobiotites and vermiculites, comparison of added and residual, 25:6316
effects on cesium uptake by wheat seedlings, 21:24303
effects on cesium-134 metabolism in mule deer, 22:14908 (COO-1156-25)
effects on cesium-134 uptake by barley roots, 21:26664
effects on cesium-137 absorption by peas and wheat, 21:16272
effects on cesium-137 accumulation by fish in Baltic Sea and lakes in Sweden, 24:34217
effects on cesium-137 availability in mineral soils, 25:2529
effects on cesium-137 content of organisms in lakes of Finland, 23:12109
effects on cesium-137 retention by rats, 24:9750
effects on cesium-137 retention in young rats, 24:2563
effects on cesium-137 uptake by potted plants, 22:43313 (RISO-170)
effects on cesium-137 uptake from soil by oat plants, 24:27520
effects on cesium-137 uptake from soil by Trifolium pratense, mathematical analysis of, 24:48374
effects on colorimetric determination of gold, 25:34521
effects on combustion gas for magnetohydrodynamic generators, 23:25185
effects on complexonometric determination of rare earths, 25:57317
effects on crystallization of molybdenum, 24:4795
effects on determination of calcium by nondestructive alpha activation, 25:54522
effects on determination of elements by graphite spark method in hydrochloric acid, 24:36143 (CEA-N-1241, pp 3-83)
effects on determination of lutetium and thulium by atomic absorption spectroscopy, 24:18887
effects on determination of metals by displacement chromatography on acidic cation exchange resin, 22:12416
effects on determination of oxygen in sodium by photon activation, 23:21671
effects on determination of selenium by neutron activation, 24:48058
effects on distribution and retention of rubidium-86 in rats, 23:6361
effects on elasticity and viscosity of myogen and myosin, 21:34588
effects on electric conductivity of argon plasma, 22:5361
effects on electric conductivity of carbon dioxides, seed, (E), 24:35407
effects on electric conductivity of flame plasma, 22:41565
effects on electric conductivity of plasma, (E), 22:17636
effects on electric conductivity of rare gas plasmas, (T), 22:24319
effects on electrolyte coagulation and stability of aquosol of antimony trisulfide, 22:4095
effects on electron pulse radiolysis of benzophenone in 1,4-dioxane or tetrahydrofuran, kinetic spectrophotometric studies on, 24:13968
effects on erosion of refractory zirconium oxide ceramics, 22:12985
effects on fatigue of molybdenum—titanium—zirconium alloy at 1500 to 2000°F, 21:43552 (BNL-50068)
effects on friction and wear of mechanical devices with rubbing surfaces, 23:11690 (LMEC-68-5(Vol.1))
effects on grain structure of tungsten, 21:16580
effects on graphite reactions with oxygen, 22:41140
effects on gravimetric determination of mercury using 2-aminobenzothiazole, 25:34520
effects on γ radiolysis of ammonia adsorbed on synthetic zeolites, EPR spectral studies on, 25:13057
effects on manganese uptake by barley roots, 21:40743 (RLO-1547-5)
effects on membrane capacitance of irradiated cultured Ehrlich's ascites and SOTs cells, 24:7976
effects on nicotine-induced calcium-45 uptake and contracture of sartorius muscle from frogs, 22:6737
effects on oxidation of irradiated graphite, 25:6906
effects on oxygen uptake by resting muscles, 21:45495(R) (AD-629215)
effects on physiology of ureteral muscle of guinea pigs, 22:43240
effects on polarity of muscle cell membranes, combined effects of acetylcholine, alkaloids, and enzymes on, 21:45495(R) (AD-629215)
effects on radioinduced coloration of sodium chloride crystals, 24:26302
effects on radiometric determination of cesium isotopes in water, after extraction as tetraphenylborates, 25:29000
effects on radiosensitivity of riboflavin in dogs, 21:34580
effects on rare gas constricted positive column discharges, 22:1237
effects on rate of cesium-134 secretion in milk of lactating cows, 22:21460(R) (COO-1171-82)
effects on reactor materials, 21:14788
effects on response of crab nerve fibers to uv radiation, 21:20106
effects on retention of sodium ions by erythrocyte membranes, 22:19238(R) (NYO-3148-12)
effects on rubidium-86 retention in rats, 24:5983
effects on rubidium-86 uptake by corn root segments, 22:33775
effects on separation of zirconium from plutonium by solvent extraction, 21:40763 (LA-3743)
effects on sintering of tungsten powders, 24:4759
effects on sodium efflux from resting muscles, 21:45495(R) (AD-629215)
effects on sodium extrusion from muscles of frogs, 22:45387
effects on solvent extraction separation of cerium or yttrium from hydrochloric acid using bis(2-ethylhexyl) ester of phosphoric acid, 22:42844
effects on sorption of cesium-137 by vermiculites, 21:10457
effects on spectrofluorimetric determination of trace amounts of zirconium, 24:29189
effects on spectrographic determination of rare earths by rotating electrode, 23:13636
effects on spectrophosphorimetric determination of niobium, 24:29185
effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
effects on spectrophotometric determination of iron using 2,4-dihydroxypropiophenone oxime, 22:36
effects on spectrophotometric determination of nitrite ion by reaction with azulene and p-nitroaniline, 22:29
effects on spectrophotometric determination of sulfate in water by formation of ferric sulfate complex, 23:34981
effects on spectrophotometric determination of trace amounts of ruthenium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:22975
effects on strontium-90 uptake by red clover and rye grass, 21:41360
effects on synergism in solvent extraction of cesium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6394
effects on tenia coli of guinea pigs, effects of, on calcium-45 uptake, 22:49207
effects on tensile properties of alumina, beryllia, yttria, and zirconium alloys at 800 to 1600°F, 21:36781 (BNL-50054)
effects on uptake and distribution of cesium-134 in barley and mustard plants, 21:26381
effects on x-radiosensitivity of excitability of frog nerves, 21:36715
effects on x-radiosensitivity of sunflower seedlings, 22:43478
effects on yields in radiolysis of concentrated nitrate ion solutions, 22:23034 (IA-1128, pp 78-96)
efflux from rabbit lens, design of constant perfusion device for tracer studies on, 25:26606
efflux in sciatic nerves of β-irradiated frogs, effects on oxygen consumption, 24:31845
efflux of, in heart muscle, effects of strontium ions on, 21:12784
electric conductivity of liquid, experimental and theoretical, 22:43565(R) (COO-841-15)
electric conductivity of liquid, review of data on, 23:12316
electric conductivity of liquid, to 300°C, 25:55527
electric conductivity of, empirical relation for, 21:21922(T) (AWRE-Trans-52)
electric conductivity, low-temperature, 23:34505
electric resistivity of liquid, effects of temperature on, 24:17264
electromagnetic generation of ultrasound in, low temperature, 25:34457 (NYO-2150-72)
electromigration in molten chlorides, 25:57439
electron binding energy tables for atomic and ionic, 21:20727 (IPP-1/56)
electron elastic and inelastic scattering at 0.5 to 1.2 eV by, spin-analyzed differential cross sections for, (E), 24:19749
electron elastic scattering at 0.5 to 1.2 eV by, ratio of spin-exchange to full cross section for, (E), 22:43907
electron elastic scattering at 0.5 to 9 eV by, total cross sections for, (E), 25:30282
electron elastic scattering at 0.9 to 15 eV, differential cross sections for, (E/T), 25:40347
electron elastic scattering at 1.0 to 5.2 eV by, differential cross sections for, (E), 25:14034
electron energy loss at 34 keV in thin foils of, 21:3662
electron inelastic scattering at 34 keV in thin foils, (E), 22:17394
electron reactions at <5 eV, excitation cross sections for, 21:28961(T) (AD-644072)
electron reactions at 0.3 to 1.1 MeV with thin multiple-layer foils with carbon, photon emission spectra from, 25:19471
electron reactions at 0.5 to 1.2 eV with, differential cross sections for elastic scattering and spin exchange in, (E), 25:30282
electron reactions at 1.6 to 20 eV with polarized beams of, depolarization in, (E), 25:11707
electron reactions at 200 eV with, maximum escape depth of secondary electrons from, (E), 21:7363
electron reactions at 3.0 to 5.2 eV with, differential cross sections for excitation of 4S—4P transition in, (E), 25:14034
electron reactions up to 1 keV with, calculated absolute total cross sections for ionization in, 23:22921
electron reactions up to 30 eV with, absolute excitation cross sections for, (E), 21:37128
electron reactions up to 40 eV with, classical calculation of ionization cross sections for, 24:23787
electron reactions up to 5 eV with, differential cross sections for excitation of resonance lines in, (T), 25:40383
electron reactions with atomic, energy loss spectra and collision cross sections and oscillator strengths for 40- to 200-eV, (E/T), 22:43931
electron reactions with atomic, excitation cross sections for, (T), 25:2915
electron reactions with atomic, ionization cross sections for, (T), 22:17362
electron reactions with, cross sections for, 21:9314

electron reactions with, excitation rate coefficients for, (T), 25:24882
electron reactions with, ionization by slow, 22:43885
electron reactions with, ionization cross sections for, 21:35006 (IPP-1/62)
electron reactions with, measurement of excitation cross sections of resonance lines in, 21:24899
electron reactions with, octupole transitions in excitation by, 22:52487
electron reactions with, spin change from 4^{2}S/sub 1/2/ to 4^{2}P/sub 1/2,3/2/ transitions in, (E), 23:27376
electron scattering at 0.3 to 9 eV by, absolute total cross sections for, (E), 25:19506
electron scattering below 10 keV on, ionization cross sections in, (T), 21:31233
electron scattering by atomic beams of, exchange cross sections for, (E), 21:18464
electron scattering by, effects of long-range forces on elastic, (T), 23:14608
electron scattering by, elastic differential spin-exchange cross sections for slow, 22:7154
electron scattering by, energy levels in, (E), 21:41751(R) (AD-646244)
electron scattering cross sections for plasma of, 21:11652
electron—phonon coupling function calculations, 25:33475
electron-capture ratio for, calculation of L/sub I//K, (T), 22:32496
electronic properties of, ultrasonic measurement of, 22:21696(R) (ORO-2861-5)
elution from alfalfa, 22:21460(R) (COO-1171-82)
energy levels of atomic, nonadiabatic corrections to, 22:9006
energy levels of atomic, rare-gas-induced m/sub j/ mixing in oriented 4^{2}P/sub 1/2/, 22:9048
energy levels of atoms of, calculation using extended Thomas—Fermi—Dirac potential, 21:37146
energy-level transition probabilities for, critical compilation of data on, 24:6348 (NSRDS-NBS-22(Vol.2))
energy-level transitions in, continuum generalized oscillator strengths for 4s—epsilon p, (T), 25:19476
energy-level transitions of K^- mesic, determination of K^- mass from x-ray energies from, (E), 24:47383 (CONF-690557-(Vol.2), pp 889-95)
equations of state for, constants for, 22:32735 (ANL-7310, pp 249-375)
erosive effects of liquid, on metals for nuclear reactors, 22:52126 (BNL-50127)
erosive effects of two-phase flowing, on TZM turbine blades, 25:44999 (SAN-595-4)
erosive effects of vaporous, on nickel-plated stainless steel turbine blades, 22:8698
erosive effects on turbine nozzle, 21:36781 (BNL-50054)
erosive effects on turbines, literature survey on, 22:36432 (ORNL-TM-2088)
erosive effects on TZM turbine blades at supersonic speeds, 21:41106
exchange equilibria of, between molten sodium nitrate and sodium zeolite A, 22:42832
exchange in kidneys of dogs, effects of rate of, on potassium-42 excretion, 22:28319
exchange with other cations on clinoptilolite, heulandite, or synthetic zeolite, 22:25447 (BNWL-481-3, pp 54-9)
exchange with rubidium-86 in roots of rice and sorghum, 23:41222
exchange with sodium in man, isotopic equilibration method for determining effects of heart disease on, 22:6832 (CONF-661010)
excitation cross sections for, calculation using approximation based on regional trial functions, 25:2895
excretion by beagle dogs, effects of cesium, lithium, or rubidium chlorides on, 22:30936 (UCRL-50405)
excretion in urine of man, effects of estrogen on, 23:8016(R) (ACRH-29)
expansion of vaporous, flowing through nozzles and orifices, 21:30239 (NP-16767)
flow in tubes, hydrodynamics of two-phase, 23:31468(T) (BNL-tr-267)
flow in tubes, pressure drop in two-phase upward, 25:8405 (BNL-13957)
flow of liquid, superheat required for incipient boiling in convective, 22:49020
flow of vaporous, in tubes, void fraction and hydraulic friction measurements for two-phase, 23:45477
flow over heated surfaces, effects of wettability on dry patch formation in, 21:228
formation in argon crystals by reactor irradiation at 4.6°K, 24:26309
gamma activation of, at 30 MeV, gamma spectra of products from, 22:6361 (AERE-R-5547)
gamma attenuation in, photoelectric coefficients of, 21:21006
gamma spectra in neutron-irradiated biological materials, 24:31255 (JUL-559-ME)
heat transfer from boiling, 21:35701(R) (BNL-50023)
heat transfer from boiling, 21:23659
heat transfer from two-phase flow of, measurement of convective, 21:23710 (BNL-994, pp 45-69)
heat transfer in 400 kW boilers, 21:43552 (BNL-50068)
heat transfer measurements for boiling, in uniformly heated tubes, effects of flow conditions and geometries on, 23:45476
heat transfer properties, testing in heat pipe systems at 450 to 850 deg C, 21:3211 (LA-3585)
heat transfer test loops for boiling, development of instrumentation for, 21:34526 (ORNL-4091, pp 192-5)
heat transfer to boiling, in uniformly heated tubes, 24:20655(T) (BNL-tr-251)
heat transfer to boiling, on stainless steel with reentrant cavities, effect of superheat on, 21:30618 (ORNL-P-3083)
heat transfer to Haynes 25 Alloy, rates in pumped loops, 22:15141 (BNL-50057, pp 79-100)
heat transfer to, flowing in tubes, effects of heat flux distribution and flow rates on, 21:43160
heat transfer to, flowing in tubes, from externally condensing sodium at high heat fluxes, 21:43155
heat transfer to, measurements of pool boiling, 24:9586
helium atom reactions with, probability of Penning ionization by metastable, (T), 22:24051
helium-ion reactions at 10 to 1500 eV with, total cross sections for charge exchange in, (E), 23:27380
helium-ion reactions at 50 to 1600 eV with, crossed-beam study of electron capture into excited states in, 25:14011
helium-ion reactions with vapor of, production of excited nitrogen molecules in, (E), 23:16649
helium-metastable-atom reactions with, electron energy distributions, interaction potentials, and Penning ionization cross sections for, (E), 25:992
injection in zirconium oxide, design of equipment for, 22:12985
ion exchange behavior in ethanol—hydrochloric acid, 23:19837
ion exchange behavior on zirconium phosphate crystals, 25:13084
ion exchange by chromium, titanium, and zirconium phosphates, 22:12291
ion exchange on semicrystalline zirconium phosphate, thermodynamics of, 24:2276
ion exchange properties in alkaline earths, radiochemical method for measuring, 23:7456
ion range—energy relations for, tabulated parameters for calculation of keV-, 23:12518 (AECL-3194)
ionization on platinum and tungsten surfaces, absolute measurement of, 24:29148(T) (SC-T-70-4019)
ionization on tungsten surfaces, effects of impurities on residence time for, 25:19210
isotope thermotransport in liquid, 21:3217
isotope thermotransport in liquid, temperature dependence of, 23:7603
lithium-7 scattering by, velocity dependence of total cross sections and bound states of diatoms in, (E), 23:10457
lithium-ion reactions at 0.5 to 20 keV with, total cross sections for charge exchange into excited states in, (E), 25:38156
lithium-ion reactions with, charge exchange cross sections for, (E), 23:46246
magneto-resistance measurements on single crystals of, 21:11695(R) (NYO-2150-22)
magnetoresistance and Hall effect of, 25:30646(R) (NYO-2150-66)
magnetoresistance measurements on single-crystal, using helicon waves, 22:15566(R) (NYO-2150-40)
magnetoresistance of polycrystalline, transverse, 25:31707 (NYO-2150-68)
measurement of exchangeable, in human body by isotopic dilution method using potassium-42, 22:51438
meson (K^-) absorption by, x-ray spectra for, (E), 23:40016
meson (μ) transition energies in, 2p—1s, (E), 21:16803
metabolism by cattle, effects of diet on, 22:30978
metabolism by man, effects of magnesium on, into human lipoproteins, 22:12864(R) (ORO-2401-10)
metabolism in chicks, effects of rubidium on, 22:21460(R) (COO-1171-82)
metabolism in fish in Clinch River and White Oak Lake, 22:6772 (ORNL-4168, pp 61-118)
metabolism in human infants, comparison of, to adults, 21:39418
metabolism in lens of rat eyes, effects of dietary galactose on, 21:47004 (CONF-670805-2)
metabolism in mammals, comparison of, with cesium metabolism, 21:36575(R) (JAERI-5015)
metabolism in man, 21:39421
metabolism in man, variations in, 23:20090
metabolism in pregnant females in comparison to cesium-137, 23:43669
metabolism in rat heart, effects of γ-radioinduced necrosis on, tracer studies, 23:47946
metabolism of, in man, comparison of, with cesium-137 metabolism, 21:17990
metabolism of, in man, tracer study of, 21:14597
metabolism of, in muscles of animals suffering from radiation sickness, 21:4870
molecular beams of, velocity analysis using mechanical selector, 23:20695
movement through soil—water system, tracer study of, 25:21623 (ORNL-4634, pp 82-102)
neutron activation in compact fast reactor coolant, radiation dose rates from, (T), 22:39782 (N-68-20355)
neutron activation of, in barley and rice seeds, effects of storage on activity from, 23:6426
neutron capture by, gamma spectra from fast, (E), 24:52474 (ORNL-4475)
neutron capture by, gamma spectra from thermal, (E), 25:3181
neutron capture by, γ spectra for thermal, (E), 23:37162
neutron capture by, γ spectra for thermal, (E), 23:46943 (ORNL-4382)
neutron coherent scattering amplitude for, (E), 22:53074
neutron cross sections for γ production on, data format for, 22:37306 (AD-665359)
neutron cross sections for, data files on, 22:37310 (AD-665363)
neutron differential elastic scattering cross section at 0.3 MeV, angular distribution for, (E), 23:10958(T) (BNL-tr-232)
neutron differential elastic scattering cross sections at 2 to 8 MeV, (E), 22:3653
neutron differential gamma production cross sections at 14.7 MeV, (E), 21:25518 (WASH-1071)
neutron elastic scattering at 0.6 to 3.7 MeV, evaluated angular distributions for, (E), 21:31736 (NAA-SR-11980(Vol.4))
neutron elastic scattering at 2.06 to 7.91 MeV, optical-model analysis including Hauser—Feshbach formalism of differential cross sections from, (E/T), 25:17816
neutron elastic scattering at 7 MeV, neutron spectra from, (E), 21:33912
neutron elastic scattering cross sections at 14 MeV, (E), 21:2644
neutron inelastic scattering at 14 MeV, (E), 21:12063
neutron inelastic scattering at 5 MeV, angular distributions for, (E), 21:25518 (WASH-1071)
neutron inelastic scattering by phonons in, at 299°K, (E), 21:7721(R) (AECL-2611)
neutron inelastic scattering by, (E), 21:1029 (ORNL-TM-1665)
neutron inelastic scattering in, calculation of lattice dynamics using quasi-ion approximation, (T), 24:3824 (EUR-3621(Pt.2))
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron reactions (n,xγ) at 14 MeV with natural, cross sections for, (E/T), 25:14920(T) (BNL-tr-380)
neutron reactions at 14.5 MeV, deviations of total cross sections from black nucleus formula, (E), 23:23639
neutron reactions at 15 MeV, γ production cross sections for, (E), 21:42570
neutron reactions with, secondary gamma spectra from fast, (E/T), 25:7440
neutron scattering by liquid, (E), 21:4233(R) (AECL-2610)
neutron total cross section at 0.3 to 32 MeV, (E), 25:38922 (EURFNR-591(Suppl.2))
neutron total cross section at 1.8 to 8.3 MeV, (E), 22:3653
neutron total cross section at 14.5 MeV, (E), 24:38104
neutron total cross section at 14.7 MeV, measurement using transmission method, (E), 22:13987
neutron total cross section at 5.0 to 8.5 MeV, (E), 22:37340(R) (EANDC(E)-89(U))
neutron total cross section for, measurement using transmission method, (E), 23:37134 (AD-681890)
neutron total cross sections at 1 to 11 MeV, minima in, (E), 23:1766
neutron total cross sections at 1.8 to 8.3 MeV, (E/T), 25:17816
neutron total cross sections at 2.4 to 16 MeV, (E), 21:25475
nitrogen-ion (N_2^+) reactions at 50 to 1600 eV with, crossed-beam study of electron capture into excited states in, 25:14011
nitrogen-ion (N_2^+) reactions with vapor of, production of excited nitrogen molecules in, (E), 23:16649
nuclear reaction parameters for, data compilation on, 22:29977
oxidation by dry oxygen as a function of pressure and temperature, kinetics of, 22:37711 (CEA-R-3301)
oxidation of, effects of water content in oxygen liquid, 21:43600
oxygen exchange between, and zirconium, improved method for measurement of, 24:17201 (ORNL-4480, pp 196-205)
oxygen-atom reactions at 20 eV to 10 keV with, Landau—Zener—Stueckelberg calculation of cross sections for ion-pair formation in, 24:28106
performance as lubricant and working fluid in space power system turboalternators, 25:23727 (N-70-32747)
performance as working fluid for space Rankine-cycle power systems, 21:41104
performance as working fluid in fluidic acoustic resonant thermometer using frequency beating technique, 22:21000 (SAN-639-7)
performance as working fluid in heat pipe, effects of fluid pressure conditions on, 23:7691 (LA-4039)
performance as working fluid in Rankine cycle space power plants, effects on condenser and radiator design, 22:25573 (ORNL-TM-2081)
performance as working fluids for 300 kW(e) Rankine cycle space power plants, 22:21234 (ORNL-TM-2118)
performance in Rankine-cycle space power plants, 21:31999 (ORNL-TM-1833)
performance in secondary of dual-loop Rankine-cycle test equipment using lithium in primary loop, 21:41105
phase properties of, determination of, 22:32735 (ANL-7310, pp 249-375)
phase studies at high pressures, 24:33573(R) (COO-1707-9)
phonon shifts and widths in, temperature dependence of, (E/T), 21:17318(R) (AECL-2659)
phonon widths and shifts in, temperature dependence of, (T), 21:12011 (AECL-2639)
photo-ionization absorption continua for vapors of, 22:29201
photoelectric effect in, spectral extension of, 21:7002
photoionization of, theory for three-, 21:11447
photon absorption coefficients for, (E), 24:25845
photon reactions (γ,p) at 24 to 32.5 MeV, cross sections and proton spectra for, (E), 23:39956
photon reactions at 0.001 to 15.0 MeV, cross sections for, 21:17297 (UCRL-50178)
physical properties at saturation temperature, 21:28162
physical properties of liquid, comparison with liquid sodium and water, 23:15636
physical properties of, for use in heat pipes, evaluation of, 21:10532 (LA-DC-7938)
plasma of highly ionized, recombination coefficients in, (E), 22:39128
plasma of, anomalous resistivity of magnetized, (E), 25:56159
plasma of, condensation and electric conductivity of, 22:1162
plasma of, confinement in Garching octupole W V, 24:5152 (IPP-2/78)
plasma of, confinement time in Q devices, (E), 22:44080
plasma of, cross-field diffusion in Q devices, 22:34581 (SIT-2813-46)
plasma of, cross-field diffusion in Q devices, (E), 23:23071
plasma of, cross-field diffusion of quiescent, (E), 22:31828

plasma of, current instability in Q device, 21:33480 (CONF-670104-Pt.1, pp 137-43)
plasma of, diagnostics using electrostatic probes, 22:19946 (MATT-520)
plasma of, diffusion across a magnetic field during drift instability of collisionless, (T), 21:25169
plasma of, diffusion in Q device, (E), 22:26352 (NYO-2813-39)
plasma of, diffusion in Q machines, 21:7180
plasma of, diffusion measurements in Q device, 21:33368 (CONF-670104-Pt.1, pp 259-70)
plasma of, drift instability suppression in hf fields, (E/T), 22:50206
plasma of, drift wave coupling in Q devices, (T), 24:3415 (N-69-33202)
plasma of, effect of shear and connection length on drift wave, (E), 23:32474
plasma of, electron- and proton-beam interactions with, oscillations from, 22:13458
plasma of, electron-temperature effects on low-frequency oscillations in, 23:32508
plasma of, Fermi-liquid effects in, (T), 22:24328
plasma of, flute oscillations in mirror-confined, (E/T), 22:3141
plasma of, graphical compilation of properties of, 22:3049 (SIT-2813-42)
plasma of, ion recombination on end plates of Q devices, (E/T), 24:5167
plasma of, ion temperature and increased end losses in Q devices, (T), 24:17882
plasma of, ion-beam excitation of drift waves in, 21:9584
plasma of, ion-cyclotron instability in collisionless, 22:52837
plasma of, ionization decay in, (T), 25:45484
plasma of, microinstabilities and diffusion processes in thermal, (E/T), 22:24367
plasma of, noise in collisionless, (E), 23:27660
plasma of, nonlinear drift wave coupling in Q devices, (E), 24:10593
plasma of, nonlinear interactions of drift waves in Q devices, (E), 23:51741
plasma of, nonlocal drift modes in cylindrical geometry, 21:42137
plasma of, optical probing for diagnostics in arcs, 25:3065
plasma of, oscillations and diffusion in Q-machines, 21:15196 (MATT-522)
plasma of, parametric mode-mode coupling of drift waves in Q devices, (E), 24:18002
plasma of, Q device for diagnosing, 22:9290
plasma of, shear stabilization in Q devices, 21:33363 (MATT-Q-24, pp 1-195)
plasma of, shear stabilization of, 21:25168
plasma of, spectroscopic studies of spark discharges, (E/T), 23:32351
plasma of, stability in presence of electric currents, 21:7293(T) (UCRL-Trans-10067)
plasma of, stabilization of oscillations in rotating, (E), 24:49104(R) (UCB-34-P-128-15)
plasma of, temperature gradient effects on diffusion of, 21:9580
plasma of, thermal conductivity of, pressure and temperature effects on, (E/T), 22:9328
plasma of, thermodynamic functions at 2,000 to 25,000°K and 10^{-4} to 100 atm, (T), 22:26411
plasma of, thermodynamic properties of, (T), 21:2262
plasma of, three-body recombination coefficients for, (E), 24:19881
plasma of, transverse diffusion of Q, (E), 22:24283(R) (SIT-2813-44)
plasma of, turbulence in Q machines, 21:7244
plasma of, turbulent diffusion of thermal, (E), 22:17617
plasma of, turbulent state during drift instability of, (T), 21:25170
plasma of, upper hybrid resonance scattering by nonuniform column of, (E/T), 24:26256
plasma stability in Q machines, electric field effects on, 21:18762 (UCRL-70115)
plasmon energy shift in bcc, 23:48994
polarizability measurements of atoms of, 22:34242 (COO-1112-164)
polarographic behavior in cyclic propylene ester of carbonic acid, 22:30547
positron annihilation in, effects of magnetic field orientation on, (E/T), 21:7004
positron annihilation in, minimum energy for, (E), 21:16797
positron annihilation rate in, pressure dependence of, (E), 25:49455
positron lifetime in, measurements of deeply embedded, 24:19739
positron lifetimes deep inside crystals of, (E), 23:44173 (IS-T-311)
positron one-photon annihilation in, upper limit for, (E), 24:21889
potassium atom reactions with excited atoms of, cross sections for transitions between fine structure components in, 22:11205
potassium ion reactions at 10 to 200 eV with, charge-exchange cross sections for, (E), 21:18459
potassium-41/potassium-39 abundance ratios in, mass-spectrometric determination of, 22:18723
potassium-ion (K^{-}) reactions with, cross sections for resonant charge exchange in, (T), 24:1282
potassium-ion reactions with, charge exchange cross sections for, (E/T), 23:8471
potassium-ion reactions with, charge exchange cross sections for, (E), 23:46246
potassium-ion reactions with, charge-exchange cross sections for, (T), 25:43157
potassium-ion reactions with, impact-parameter calculations of oscillations in charge-transfer cross sections for, 24:12646
potassium-ion reactions with, resonant charge exchange cross sections for, (E), 24:26185
preparation of pure monocrystalline, 22:21696(R) (ORO-2861-5)
preparation of radiation targets of, technique for, 21:19122
preparation of wires of, 21:35918(R) (NYO-2082-12)
pressure drop in two-phase flow of, effects of net vaporization on, 24:44184 (BNL-50205, pp 134-67)
production and detection of atomic beam of, 21:23162 (CLM-R-68)
production of atomic beams of, at 6 to 4000 eV, 21:3663
properties for use as heat transfer medium in space power systems, review of, 24:51149 (AD-473754)
properties for use as working fluid for Rankine cycle space power system, 21:4938 (NASA-SP-131, pp 169-99)
properties for use in thermoelectric converter heat pipes, 24:31533(R) (LA-4446)
properties of anodes of, for use in organic electrolyte battery, 22:27522 (SC-CR-67-2855)
properties of liquid, review of physical, 21:36833 (UCID-15176)
properties of vaporous, at 3000°K, kinetic method for calculation of thermodynamic and transport, 24:1027
properties of, compilation of engineering and physical, 24:21347 (TUBIK-13)
properties of, data tabulations on thermophysical, 22:31343 (AGN-8195(Vol.1))
properties of, review of physical and thermodynamic, 22:17100 (BNL-50089)
prospecting for deposits of, gamma well logging method for, 25:34716(T) (CSIRO-Trans-10088)
prospecting for, development of instruments for, 25:13321 (RISO-M-1270)
proton reactions at 0.5 to 2 keV with vapor of, charge exchange in, 22:7162
proton reactions at 1 to 20 keV with vapor of, cross sections for one- and two-electron charge exchange in, (E), 24:28093
proton reactions at 1 to 20 keV with vapor of, yields of negative ions from charge exchange in, (E), 23:41977
proton reactions at 10 to 180 keV, charge exchange cross sections for, 21:7010
proton reactions at 2 to 30 keV with, energy dependence of H(2s) production in (E), 22:1011
proton reactions at 2 to 50 keV with, cross sections for charge exchange in, (E), 22:21845 (NYO-2962-6, pp 63-9)
proton reactions at 2.5 to 22 keV with vapor of, charge components and cross sections for charge exchange in, (E), 22:34283
proton reactions at 5 to 35 keV with vapor of, excited-state population ratios for atomic hydrogen from charge exchange in, (E), 23:41949 (UCRL-50642)
proton reactions with vapors of, excited-state population ratios of hydrogen atoms produced by charge exchange in, (E), 25:7185
proton reactions with, charge exchange cross sections for, 23:18397
proton reactions with, cross sections for formation of excited hydrogen atoms in, (T), 24:49036
pumps for liquid, cavitation and hydraulic performance of electromagnetic, 25:4186 (ORNL-TM-2995)
pumps for, performance of helical electromagnetic induction, (E), 22:8256 (ORNL-TM-1793)
purification of liquid, description of equipment for, 23:29052(P)
purification system design for liquid, 23:6641 (ORNL-4301)
radial distribution function for, x-ray diffraction measurements of, 24:42091(R) (COO-841-20)
radiation dose rate measurement of soils containing natural radioactive, 21:1737 (CLOR-48/D)
radiation effects on 3-methylpentane containing, at 77°K, comparative ESR studies on paramagnetic species produced from γ or uv, 25:13025
radiation effects on content of blood serum of dogs, effects of dose on whole-body x, 25:46731
radiation effects on content of exchangeable, in man, effects of dose on γ, 24:44615
radiation effects on content of, in blood and urine of man following radon inhalation therapy for hypertension, 22:51959
radiation effects on content of, in blood plasma and cerebrospinal fluid of rabbits, protective effects of cystamine against, 22:51903
radiation effects on content of, in blood serum of cancer patients, effects of dose on therapeutic x, 24:34741
radiation effects on content of, in blood serum of man, 22:4694
radiation effects on content of, in brain and muscle tissues of rats, lethal and sublethal, 25:13566
radiation effects on content of, in cardiac muscle of rats, effects of adrenalectomy on, 25:16351
radiation effects on content of, in erythrocytes and blood plasma of animals, combined effects of local anesthesia on, 24:48692
radiation effects on content of, in erythrocytes following in vitro exposure of blood, x, 22:51477
radiation effects on content of, in erythrocytes of rabbits, 25:19107
radiation effects on content of, in human blood and urine following therapy, x, 23:2749
radiation effects on content of, in human blood, electron and γ, 22:19407
radiation effects on content of, in intestinal mucosa of rats, effects of hypothermia on local and whole-body x, 21:43457
radiation effects on content of, in leaves of forest trees, effects of chronic exposure on γ, 21:24664
radiation effects on content of, in muscles of dogs, ionizing, 23:33634
radiation effects on content of, in preserved human blood, x, 21:41329
radiation effects on content of, in rabbit tissues, comparison of chemical effects to polonium-210 α and γ, 22:47611
radiation effects on content of, in rats, cobalt-60 γ, 22:45664
radiation effects on content of, in serum of dogs following kidney exposure and unilateral nephrectomy, x, 22:38227
radiation effects on content of, in spleen cells of mice, low-dose x, 22:45508(R) (PG-Report-826)
radiation effects on content of, in yeasts, effects of, on coacetokinase activity and oxygen consumption, 24:12218
radiation effects on content of, in yeasts, effects of, on activity of coacetokinase, x, 22:43219
radiation effects on diffusion of, from rabbit erythrocytes, x, 21:26625
radiation effects on distribution of, in brain cells of rats, sublethal, 24:51035
radiation effects on distribution of, in tissues of mice, combined effects of tourniquet injury on x, 22:25979
radiation effects on efflux of, from frog sciatic nerve and human tumor cells, x, 23:16371
radiation effects on exchangeable pools of, following exposure of abdomen in rats, lethal x, 23:41239
radiation effects on excretion of, following gold-198 treatment of Cushing's syndrome, 21:18084
radiation effects on excretion of, in rat urine, combined effects of open skin lesions and, 25:55332
radiation effects on flux of, in excised onion roots, micropotometric determination of x, 22:28705
radiation effects on in vitro retention of, by mice kidneys and spleen, effects of chemicals on, in vitro and whole-body γ, 21:22621
radiation effects on metabolism of, in ascites tumor cells, 24:34129
radiation effects on metabolism of, in man following therapy of diffuse toxic goiter, iodine-131, 25:55340
radiation effects on metabolism of, in rabbits and rats in relation to adrenal cortex function, acute polonium-210 γ, 22:49608
radiation effects on metabolism of, in yeast, 25:32617
radiation effects on permeability of erythrocyte membranes of man to, x, 22:23426
radiation effects on sorption of, by bacteria, uv, 23:35637
radiation effects on transport in ascites tumor cells, x, 21:22360
radiation effects on transport of, by Ehrlich ascites tumor cells, 23:14133
radiation effects on transport of, in cultured Ehrlich ascites tumor, x, 23:6402
radiation effects on transport of, in rat erythrocytes, γ, 21:36520
radiation effects on transport of, in rat liver mitochondria, electron, 22:440
radiation effects on urinary excretion of, by mice, effects of field strength on magnetic, 25:6645
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
radioinduced efflux from erythrocytes, effects of iodoacetate on x, 21:28386
radioinduced increase in transport of, into nerve cells of rabbits, x, 21:39359
radioinduced loss of, from rabbit erythrocytes in vitro, 21:22729
radioprotective effects of dietary, on rats, whole-body γ, 25:39883
radioprotective effects of, on depilation in mice, x, 25:24222
Raman transition, photon polarization in, (T), 25:40837 (EUR-CEA-FC-594)
Rankine cycle nuclear space power systems utilizing liquid, development of 0.25 to 10 MW(e), 22:37552 (CONF-680802-1)
ratio to cesium in plant parts, 21:26381
ratio to sodium in isolated frog brain, effects on phosphorus-32 uptake of, 21:32587
reactions between atoms of, calculation of spin-exchange and spin-dependent scattering cross sections for, 23:12548
reactions between atoms of, total cross sections for elastic scattering and spin exchange in, (T), 25:9202
reactions between excited and ground-state atoms of, cross sections for excitation transfer in, (T), 23:48738
reactions in lithium-heated loop at 2100°F, 21:43552 (BNL-50068)
reactions of atomic, with argon, helium, krypton, neon, and xenon, cross sections for fine-structure transitions in, (E/T), 22:2800
reactions of atomic, with molecular gases, excitation transfer and quenching in, (E), 22:13242
reactions of atoms of, with magnetic fields, resonant-frequency shift in, (E), 22:988
reactions of liquid, with iron carbides and iron manganese carbides, 24:16492
reactions of liquid, with molybdenum, niobium, and their alloys, compatibility, 21:36830 (ORNL-TM-708)
reactions of liquid, with niobium oxides at 400 and 600°C, 24:36210
reactions of liquid, with niobium pentoxide, 21:43557
reactions of liquid, with poly(tetrafluoroethylene), 25:26211 (TRG-Report-2104)
reactions of liquid, with refractory metals at high temperatures, 21:30963
reactions of, resonance charge transfer in ion-molecule, 21:30402 (UCRL-17330, pp 1-78)
reactions of, spin-exchange cross sections for atomic, (E/T), 22:26264
reactions of, total cross sections for atomic, (E), 22:19775
reactions with argon and helium at 0.5 to 40 eV, total cross sections for molecular, (E), 22:19774
reactions with argon, potassium, neon, and sodium atoms at 20 to 155 keV, cross sections for electron loss in, (E), 24:21601
reactions with atoms at 6 to 2300 eV, quantum effects on cross sections for, (E/T), 22:19771

reactions with bromine and iodine molecular beams, angular distributions and cross sections for, (E), 21:41810
reactions with bromine molecules in eV range, total cross sections for ion production in, (E), 23:46261
reactions with bromine molecules in eV range, total cross sections for charge transfer in, (E), 24:19761
reactions with cesium in crossed atomic beams, spin-change, 22:41300
reactions with deuterium and hydrogen bromides, angular and velocity distribution of potassium bromide from crossed-beam, (E), 22:5112
reactions with deuterium and hydrogen molecules up to 50 eV, vibrational excitation and dissociation in, (E), 25:35884
reactions with diatomic molecules at 1 to 20 eV, cross sections for ionization and $K(4^2P)$ excitation in, (E), 24:42536
reactions with diatomic molecules, thresholds and cross sections for $K(4^2P)$ excitation in, (E), 24:42534
reactions with ethylenediamine, effects of sodium contamination on EPR spectral studies on, 23:2259(R) (COO-958-13)
reactions with germane and silane at -77°C in ammonia solutions, mechanism and products of, 21:35924 (UCRL-17602)
reactions with graphite, 21:42920
reactions with graphite fuels at high temperature, use in separation processes, 23:39037(P)
reactions with helium and neon at 260 to 3000 eV, energy spectra of electrons from, (E), 24:12648
reactions with hydrobromic acid in crossed molecular beams, effects of deuterium on, 23:28864
reactions with methyl iodide in molecular beams, review, (E/T), 22:15375
reactions with molecular chlorine, kinetics of crossed beam, (E), 22:41314
reactions with molybdenum surfaces, temperature dependence of ion adsorption from, (E), 22:38746
reactions with niobium and oxygen, vacuum distillation technique for recovery of products from, 22:25342
reactions with oxygen and tantalum, vacuum distillation technique for recovery of products from, 22:25342
reactions with oxygen molecules up to 35 eV, cross sections for charge exchange in, (E), 25:24913
reactions with oxygen, vacuum distillation technique for recovery of products from, 22:25342
reactions with potassium ions at 10 to 500 eV, total cross sections for resonant charge exchange in, (E), 22:47826
reactions with rare gas atoms, mixing in ^2P state in inelastic, (T), 22:29284
reactions with rare gases at 6 to 1000 eV, absolute total-collision cross sections and intermolecular potentials for, (E), 24:19766
reactions with reactor containment and space power system materials at high temperatures, review of, 24:51130 (AD-487718)
reactions with rubidium atoms, cross-section ratios for excitation transfer in, (E), 24:23799
reactions with rubidium of excited atoms of, cross sections for excitation transfer in, (E), 23:20706
reactions with scandium chloride to produce scandium metal, 22:34021
reactions with tritiated hydrobromic acid, mass distribution in crossed molecular-beam, 21:35958
release to soil from organic debris in forest as function of decomposition mode and time, 25:2528
replacement of indigenous interlayer, in biotites, illites, muscovites and phlogopites, 22:3968(R) (COO-1680-3)
requirements in relation to proteins during exercise in young man, use of potassium-40 tracer and whole-body counting to determine, 24:19287 (MIT-952-6, pp 155-63)
retranslocation to new leaf growth in bush beans, 23:26712 (UCLA-12-706, pp 73-90)
salts of, analysis of solid, for potassium by scintillation counting of potassium-40, 21:8205
salts of, radiation effects on biological activity in penicillin, electron, 21:26697
salts of, use of soluble, to prevent interference of fluoride ions in extraction process for beryllium, 21:14306(P)
scattering at 6 to 1000 eV of atomic beams of, on argon, krypton, and xenon, (E), 21:20771
scattering by argon atoms and bromine molecules, cross sections and parameters of Lennard-Jones potentials for, (E), 24:30163
scattering by argon atoms and bromine molecules, supersonic-beam measurements of effective total cross sections for, 24:19757
scattering by carbon tetrachloride, iodomethane, and tin chloride, crossed-beam measurements and optical-model analysis of, 25:19497
scattering by cesium at thermal energies of atoms of, effects of spin—orbit coupling on cross sections for elastic, (T), 23:27368
scattering by cesium, potassium, and rubidium at 0.1 to 0.2 eV, analysis of data on differential spin exchange in, (T), 25:9224
scattering by cesium, potassium, and rubidium at 0.1 to 0.2 eV, differential cross sections for elastic and spin-exchange, (E), 25:9223
scattering by compounds, differential cross sections for nonreactive, (E), 23:34279
scattering by halogen compounds at 0.5 to 12 eV, differential cross sections for elastic, (E), 24:37231
scattering by hydrogen bromide, quantum mechanical analysis of elastic, 24:28109
scattering by iodine atoms and molecules at thermal energies, differential cross sections at small angles for elastic, (E), 25:2922
scattering by iodine molecules, differential cross sections for nonreactive and reactive, (E), 25:24910
scattering by rare gases at 300 to 15000 m/sec, total cross sections for elastic, (E/T), 25:14005
scattering from oxygen, differential spin-exchange, 22:7153
scattering of at 6 to 1000 eV of atoms of, by argon, iodomethane, and xenon, total cross sections for, (E), 23:5218
scattering of atomic, by rare gases, velocity dependence of total cross sections for, (E), 21:18418
scattering of atoms of, by helium at 0.35 to 16.5 eV, total-cross-section measurements for, 22:937 (AGARD-CP-12(Vol.1), pp 411-22)
scattering of beams of, on normal and deuterated hydrobromic acid, nonreactive, 21:31220
scattering of, by rare gases, cross sections for, 21:11402
scattering on mercury atoms, total cross sections for, 21:616
scattering on molecular oxygen, spin exchange in, (E), 21:39714 (TID-23971, pp 1-122)
scattering on neutral and ionized cesium, total cross sections for, 21:41821
scattering on nitrogen molecular beams, cluster size determination in, 21:33192
scattering on rare gas atoms, total cross sections for, 21:616
scattering on silicon chlorides, total cross sections for elastic, 21:31219
scattering on sulfur dioxides, angular distributions from, 22:8994 (TID-24203, pp 1-3)
separation by ion exchange using acetone—hydrochloric acid—water system, 23:13674
separation by ion exchange using aliphatic monocarboxylic acids of C_7 to C_9 fraction, 22:4087
separation by ion exchange using synthetic zeolite 4A in methanol—water, thermodynamics of, 25:44433
separation by ion exchange, comparison of, with separation of other univalent ions, 25:48593
separation by ion exchange, role of complexation reactions in, 22:33517
separation by solvent extraction using dialkyl phosphates in various organic diluents, 23:9533
separation from acetone—hydrochloric acid solutions by ion exchange using Bio-Rad, distribution coefficients for, 25:41899
separation from alkali metals using antimonic acids, chromatographic, 24:4373
separation from alkaline chloride solutions by solvent extraction using β-diketones, 23:361 (ORNL-4272, pp 174-86)
separation from aqueous acid solutions by solvent extraction using nitrobenzene and nitromethane, comparison of, 22:6415
separation from aqueous sodium hydroxide solutions by anion exchange, distribution ratio for, 24:19057
separation from aqueous solutions by extraction as 2,4-dinitro-N-picryl-1-naphthylamine complex into nitrobenzene, colorimetric and radiometric study of, 23:49904
separation from aqueous solutions by gel chromatography on Sephadex G-15 columns, effects of eluents on, 25:6409
separation from aqueous solutions by ion exchange on zirconium tellurate, tracer studies on, 25:41915
separation from aqueous solutions by ion exchange, kinetic studies of film diffusion region in, 25:23691
separation from aqueous solutions by solvent extraction using 1-phenyl-3-methyl-4-capryl-2-pyrazolin-5-one, 22:33495
separation from aqueous solutions containing sodium tetraphenylborate, sodium perchlorate, and perchloric acid by solvent extraction, 23:24296
separation from arsenic by paper chromatography, 22:25257
separation from calcium and scandium by precipitation with iron hydroxide, 23:43395
separation from calcium and scandium by precipitation with iron hydroxide, 21:24094
separation from cesium and rubidium after neutron activation using titanium hexacyanoferrate, 21:35886
separation from cesium and rubidium by ion exchange using titanium hexacyanoferrate(II), 21:30518
separation from cesium by chromatography using inorganic ion exchangers, 24:25110
separation from cesium by paper chromatography, 22:4248
separation from cesium in determination of cesium-137, 23:31303
separation from cesium, lithium, rubidium, and sodium by ion exchange chromatography on BIO-REX 40, 23:4737
separation from cesium, rubidium, and sodium by column chromatography on microcrystalline cellulose, 23:28993
separation from lithium and sodium by column chromatography on microcrystalline cellulose, 23:28993
separation from macro amounts of iron or gold by solvent extraction using polar organic solvents, 24:9476
separation from metals by chromatography and electrophoresis using inorganic ion exchangers, 24:25110
separation from metals by thin-layer chromatography, 24:25107
separation from metals simultaneously with other alkali metals, ion exchange, 22:37866
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from neutron activation samples by electrolysis through glass membranes, 24:11498
separation from ores, leaching methods for, 25:41918
separation from other alkali metals by fixation on hydrated antimony pertoxide in hydrochloric, nitric, and perchloric acids, effects of acidity and time on, 25:2333
separation from other alkali metals by solvent extraction using bis(2-ethylhexyl) phosphate, effects of 4-sec-butyl-2(α-methylbenzyl)phenol on, 22:16691
separation from other alkali metals by thin-layer chromatography, 21:24067 (NIRS-5, pp 10-16)
separation from other alkali metals, chromatographic, 22:45173
separation from other alkali metals, ion exchange, 22:37867
separation from other metals and other alkali metals by ion-exchange paper chromatography, 22:18881
separation from other metals by chromatography on stannic phosphate and stannic tungstate papers, 22:4248
separation from other metals by paper chromatography using titanic tungstate, 24:280
separation from other metals by thin-layer chromatography, 23:47617
separation from rocks in acid solutions by solvent extraction and ion exchange, 25:21146
separation from scandium, method for, 23:13234
separation from sodium by bromine redox electrolysis, 25:34691 (LA-4645)
separation from soil, extraction methods for, 24:2270
separation from soils by solvent extraction, 24:4217
separation from titanium by paper chromatography, 22:25258
separation from titanium by paper chromatography, 22:25257
separation from trace amounts of metals in neutron activation analysis of biological materials by isotope exchange, 24:31260
separation from tungsten by paper chromatography, 22:25257
separation of cesium from, by ion exchange using ammonium 12-molybdophosphate, 23:19665
separation of cesium from, by precipitation with sodium tetrakis(m-trifluoromethylphenyl)borate, 23:17335
separation of lithium from, by solvent extraction using β-diketones, 23:361 (ORNL-4272, pp 174-86)
separation of radioactive, from sodium, use of spacers for electrophoretic, 22:161
separation of rare earths and scandium from, by cation exchange chromatography, 23:40829
separation of trace sodium from, by solvent extraction using tetrathiocyanatodianilinechromate, 22:35913
separation of uranium from, by ion exchange column chromatography using Alamine 336, 24:38710 (IS-T-385)
separation of various elements from, by sorption from acetic acid on Dowex 1-X8, 22:35914
separation of, as perchlorate, effects of amount of carrier on radiochemical, 21:19741
separation of, by contact ionization in magnetoplasma device, 22:1260
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
shock compressibility of, model for analysis of, 24:42122
sodium-ion reactions with, charge exchange cross sections for, (E), 23:46246
solubility in lithium, determination of, 21:43587 (N-67-25822)
solvent properties for cobalt, iron, and nickel at 1000°K, 23:29966 (ORNL-TM-1361)
solvent properties for copper, electrode potentials and surface characteristics in high-current-density, 22:45029 (UCRL-18043, pp 7-105)
solvent properties for inert gases, review on, 24:44777 (BNL-50248)
solvent properties for iron at 650 to 1300°C, 23:29966 (ORNL-TM-1361)
solvent properties for molybdenum, nickel, niobium, and tantalum at 1200 to 2450°F, 23:29966 (ORNL-TM-1361)
solvent properties for molybdenum, titanium, tungsten, vanadium, and zirconium at 1012 to 1341°K, 25:2714
solvent properties for niobium at 1055 to 1287°K, effects of oxygen on, 25:2664 (N-70-32146)
solvent properties for niobium, effects of oxygen on, 23:15835 (ORNL-TM-2476)
solvent properties for nitrogen and rare gases, 24:19418 (LMEC-69-36)
solvent properties for oxygen, at 75 to 575°C, 23:29966 (ORNL-TM-1361)
solvent properties for tantalum at 1055 to 1287°K, effects of oxygen on, 25:2664 (N-70-32146)
solvent properties for titanium, vanadium, and zirconium at 1012 to 1341°K, 23:30013 (N-69-20789)
solvent properties of liquid, for iron, molybdenum, niobium, and tantalum at 800 to 1200 deg C, 21:1891 (NASA-CR-610)
solvent properties of liquid, for transition metals, 22:15187 (UCRL-50315)
sonic limitations of heat pipe working fluids of, effects of evaporator exit temperature on, 23:17676(R) (LA-4109)
sorption by manganese dioxide from nitric acid, 22:157
sorption by roots of plants, effects of uranyl ions on, 22:8494
sorption by tantalum (110) and tungsten (100) crystals, contact potential measurements of, 25:35359
sorption from acetic acid on Dowex 1-X8, 22:35914
sorption on manganese oxide column from nitric acid solutions, 23:11614
spectra in argon-crystal matrix, absorption, 24:26309
spectra of highly ionized, solar, (E), 22:34293
spectra of hyperfine structure of 4p ^2P/sub 3/2/ and 5p ^2P/SUB $_1$/2/ terms in, (E/T), 22:45939
spectra of, bibliography on analyses of optical, 24:44991 (NBS-SPEC. PUBL-306-1)
spectra of, tables of lines of emission, 23:30310
spectral absorption bands in 4430 A interstellar bands, (E/T), 25:35663
spectral redshift of 7699-A line of, in solar spectrum, gravitational, (E), 24:37103
spectrum in close binary system HD 47129, (E), 21:37031
sputtering by argon ion beams at 8 keV, equations for, 24:15130

Stark effect constants for, quadratic, (T), 22:26204
superconducting parameter calculations, 25:43305
superconducting properties of, calculation from normal state data, 22:39021
superconducting state parameters of, (T), 25:38304
superconductivity in, possibility of, 24:15239
superheating in, review of apparent mechanisms of, 24:48827
surface energy of, calculation of, 24:10069
surface tension for liquid, tabular summary of constants for, 23:49572 (ANL-7410, pp 229-337)
surface tension of liquid, in ultrahigh vacuum, (E), 22:17459
surface tension of liquid, measurement at 700 to 1200°K, 21:41593
tensile properties of, at yield stress, effects of temperature on, 24:8082 (AERE-R-5944(Vol.3), pp 693-715)
testing for use as fluid in beryllium heat pipes, method for compatability, 22:19033(R) (LA-3881)
thermal conductivity and convective capacity at critical point to melting point, 23:21886
thermal conductivity and convectivity, 23:30003(R) (AGN-8305)
thermal conductivity at 1000 to 1500°F of vaporous, 23:30002(R) (AGN-8296)
thermal conductivity at 892 to 1056°K, measurement by heat transfer and laminar flow methods, 23:30001 (AGN-8194(Vol.1))
thermal conductivity of high-purity, at 97 to 900°C in argon, 24:25701
thermal conductivity of liquid, review of data on, 23:12316
thermal conductivity of vapor of, 22:25207 (COO-1352-28)
thermal conductivity of vapors of, at 500 to 3000°K, (E/T), 22:13002 (CU-2660-37)
thermal diffusion of liquid, 22:42654(R) (NYO-2082-18)
thermodynamic equilibrium constants for ion exchange reactions of, graphical determination of, 25:39591
thermodynamic properties at 0.1 to 100 atm and 2500°K, 22:19522 (UCID-15271)
thermodynamic properties at 800 to 1500°K and 0.2 atm to saturation pressure of, measurement of, 21:43552 (BNL-50068)
thermodynamic properties at high temperatures, extrapolation of data on, 24:993 (UCRL-50004-67-1, pp 39-45)
thermodynamic properties in and on vapor dome, 21:34897 (UCID-15169)
thermodynamic properties of molecules of gaseous, 21:12377 (LA-3597)
thermodynamic properties of monatomic, over liquid potassium, 21:4479 (ANL-7125, pp 119-49)
thermodynamic properties of reactor heat-pipe cooling system liquid, measurement of, 23:11168 (UCRL-71198)
thermodynamic properties of superheated vapor of, at 1149.8 to 1478.8°K and 2.412 to 14.14 atm, 21:28745 (AGN-8194(Vol.2))
thermodynamic properties of working fluids of, for space power plant turbine-generators, 23:13908 (ORNL-TM-2024)
thermodynamic properties of, at 1400 to 2200°F, 21:21907(R) (AGN-8215)
thermodynamics of, pressure-volume-temperature relations in, 21:30390(R) (AGN-8222)
transfer from old to new growth in bush beans, 23:20102
translocation from older leaves and stems to younger plant parts, 21:26381
translocation to shoots of barley and bush beans, potassium-42 tracer study of effects of calcium content on temperature dependency of, 23:41192
transport by human erythrocytes, ribidium-86 in vitro tracer study of, 24:29629
transport properties of, 21:21907(R) (AGN-8215)
transport through membranes of frog sartorius muscle, effects of barium and strontium cations on, 22:8461
ultrasonic attenuation in, 22:29593
ultrasound generation by eddy currents in, zero-field efficiency of, (E), 25:30646(R) (NYO-2150-66)
uptake and excretion by man, 22:6803 (ORNL-4168, pp 231-88)
uptake and excretion of, by cattle in Norway, 21:10813
uptake by arthropods in forest ecosystem, 21:32603 (ORNL-P-3065)
uptake by barley roots, effects of calcium content and rubidium-86 labeling on, 24:31826
uptake by Chlorella pyrenoidosa, 22:21011(R) (UCB-34-P-5-47)
uptake by dairy cows, effects on cesium-137 content in milk, 21:26409(R) (COO-1171-62)
uptake by muscles, research on mechanisms of, 23:41197 (COO-119-239)
uptake by plants from soils, 21:21840 (STI/DOC-10/65)
uptake by rice plants in Vercelli, Italy, during 1964, fallout, 23:18013 (CONF-670503-, pp 553-5)
uptake by roots of barley plants, tracer study of, 21:20061
uptake by roots of barley, effects of respiration on, 22:21011(R) (UCB-34-P-5-47)
uptake by roots of barley, effects of uranyl ion on, 22:422 (RLO-1547-4)
use as journal bearing lubricant, friction and wear tests on bearing materials in high vacuum to 1200°F, 22:8826
use as reactor coolant, comparison of liquid and vaporized, 23:7690 (DLR-FB-67-85)
use as working fluid in Rankine cycle nuclear space power systems, 22:37903 (CONF-680802-3)
use as working fluid in Rankine cycle space power plant, 22:51137 (ORNL-TM-2080)
use as working fluid in stainless steel heat pipes, (E), 22:33595(R) (LA-3941)
use in Rankine cycle system for space applications, 21:4659 (NASA-SP-131, pp 201-38)
use of neutral beams of, for plasma diagnostics, 24:49104(R) (UCB-34-P-128-15)
use of vapor, in space, 21:1532(R) (N-66-22356)
use of vapors of, for charge exchange to produce negative helium-ion beams of 1.5 to 2.5 µA, 22:5701
vapor condensate droplet sizes of, determination of, 21:8498 (TID-23287)
vapor pressure and surface tension of, data tabulations on, 22:10945 (EUR-3653)
vapor pressure at 1400°C and 300 to 500 psi, 21:43595
vapor pressure of, method of measurement of, 22:12214(T) (UCRL-Trans-10198)
vapor quality of liquid, design of meter to measure, 22:40492
vapor quality of, design of delay line oscillator fluidic device for determining, 22:30893 (TID-24501)
vaporization at 2050°F, loop design for, 21:12548(R) (N-66-33975)
vaporization at 543 to 1041°C of, measurement of latent heat of, 21:43596
vaporization in forced convection at 1800 to 2100°F, 22:647(R) (BNL-50077)
vaporization of liquid, to critical point, method for calculation of, 22:51173
velocity distribution of cathode sputtered, 24:31202(T) (SC-T-70-4020)
viscosity at 1000°C of vapors of, measurement using coiled capillary viscometer, 23:12298 (CU-2660-36)
viscosity at 900 to 1500°K, method for prediction of, 22:8753
viscosity of, 23:984(R) (CU-2660-32)
viscosity of ammonia solutions of, effects of deuterium on, 24:9270 (COO-294-11)
viscosity of liquid, 21:17607 (NYO-2082-9)
viscosity of solutions of, in liquid ammonia, effects of deuterium on, 24:36220
viscosity of vapors of, 22:14478 (CU-2660-39)
viscosity of vapors of, to 1000°C and 0.4 to 5 atm, 22:38554
void growth in liquid, x-ray attenuation method for measurement of, (E), 22:21283
wave phase shifts of liquid, Ziman pseudo-atom, (T), 21:11394 (ORNL-P-2569)
wetting of copper, iron, and nickel by liquid, 23:48398
x-ray transitions in spectra of, wavelengths of Kα-type, (T), 23:12495
xenon-ion sputtering at 28 keV, energy spectra from, 22:948
yield of, from kidneys and spleen of γ-irradiated mice, effects of radioprotective compounds on, 21:12773
zero point energy of crystals of, 22:20051

POTASSIUM ACETATES
radiolysis of anhydrous, effects of crystal structure on yields of free radicals in, spectral studies on electron, 23:4645 (COO-1385-22)
vapor pressure of saturated solutions of, in water and heavy water, 23:35086
acetic acid—potassium acetate, effects on solvolysis of p-bromobenzenesulfonic acid, deuterium isotope effects in, 21:19645
lithium acetate—potassium acetate—sodium acetate, deuterium exchange in fused, 23:148
lithium acetate—potassium acetate—sodium acetate, reactions in fused, acid-base, 23:148

POTASSIUM ACID ANTIMONATES
use as chemical barrier to minimize ground water contamination, 23:13855 (EUR-4095)

POTASSIUM ACID ARSENATES
radiation effects on ferroelectric domains of undeuterated and deuterated, EPR and ENDOR study of x, 24:47307
radiation effects on single crystals of, ENDOR studies of x, 25:132
radioinduced free radicals in single crystals of, ESR study of γ-,, 25:49973 (CEA-CONF-1764)
spectra of monocrystalline, at 20 to 300°K, ir absorption, 22:16532

POTASSIUM ACID CARBONATES
formation from carbonate additive in gaseous MHD generator, 25:7213
radiation effects on monocrystals of deuterated and normal, ESR spectral studies on free radicals produced by γ, 24:48067 (ORNL-4581, pp 131-82)
radiolysis of single crystals of, at 77°K, ESR study of free radicals from γ, 25:57471

POTASSIUM ACID FLUORIDES
analysis for fluorine by fast neutron activation, 23:43278
analysis for silicon as molybdosilicate complex, spectrophotometric method for, 25:28924
effects on corrosion and polarization of zirconium electrodes, 24:25055
effects on surface oxidation of niobium and tantalum, 23:41551
radioinduced fluorine ions in, ESR and optical absorption spectra of electron and gamma, 21:18800(R) (NYO-2047-38)
radioinduced fluorine ions in, ESR spectra of electron, (E), 21:15226
reactions with ammonium bromotechnetates, yields of ammonium fluorotechnetates from, 24:36242
spectra of hydrogen bonds in, 24:27083
spectra of superoxide ion (O_2^-) in molten, 24:13735 (ORNL-4466, pp 26-41)

POTASSIUM ACID IODATES
radiation effects on, yields of recoil iodine-126 in various oxidation states from fast-neutron, 24:20834

POTASSIUM ACID PHOSPHATES
analysis for impurities by elastic scattering of charged particles, 23:9330
analysis for oxygen, helium-3 activation, 21:29969(R) (UCRL-17299)
Curie temperature of, effects of deuterium on hydrostatic pressure effect on, 23:2281
deuterium isotopic effect on ferroelectric properties and Curie temperature of crystals of, (T), 25:59196
dielectric constant for, at high temperatures, 22:24408 (IA-1128, pp 21-54)
effects on radiolytic oxidation of potassium iodide, 21:19678
electric conductivity and lattice defects of, effects of deuterium on, 21:35979
electric conductivity of pure and sulfate-activated deuterium-labeled and normal, isotope effects on, 22:4123
electric potential of hydrogen atoms in, effects of deuterium on, 23:17401
ferroelectric phase transition in fully deuterated, (E), 22:11944(R) (AECL-2780)
ferroelectric properties of crystals of, origin of spontaneous polarization and isotope effects in, (T), 25:38580
gamma spectra of neutron-irradiated, measurements of prompt, 25:23535
neutron diffraction analysis of deuterium-substituted, critical scattering in, (E), 22:46729(R) (AECL-3157)
neutron elastic and incoherent scattering by protons in single crystals of, interference effects in, (E), 23:5756
neutron incoherent inelastic scattering by, calculations using Tokunaga—Mateubara model, (T), 23:28218
neutron scattering by, cross sections for, 22:24408 (IA-1128, pp 21-54)
neutron scattering by, evidence for proton tunneling from elastic and inelastic, 23:21004
neutron scattering from crystals of, anisotropy and phase transition effects in, (E), 21:16986
phase transitions in deuterated and normal, isotope effects in high-temperature, 22:8083
phase transitions in, effects of deuterium on, 24:41288
phonon frequency distribution in fully deuterated, measurement using neutron scattering, 22:11944(R) (AECL-2780)
phonon frequency spectrum of deuterated, measurement using neutron inelastic scattering, (E), 21:40473(R) (PR-P-74)
polarization of crystals of, effects of deuterium on spontaneous, 23:15847
polarization of deuterated and normal, spontaneous, 22:24408 (IA-1128, pp 21-54)
proton dynamics in paraelectric, (E), 22:7378
radiation damage in KH_2PO_4, ESR study of domain switching in x, 22:12347
radiation effects at liquid nitrogen temperature, distribution of phosphorus-32-labeled anions produced by neutron, 24:13978
radiation effects on dielectric constant of, at 70 to 150°K, γ, 25:8275
radiation effects on dielectric properties of crystals of, gamma, 25:43443
radiation effects on dielectric properties of crystals of, gamma, 25:14432
radiation effects on growth of crystals of, gamma, 24:21873
radiation effects on solid, reactions of recoil phosphorus-32 from thermal-neutron, 25:2302
radiation effects on structure of single crystals of, fission fragment, gamma, and neutron, (E), 21:29364
radiation effects on thermoluminescence of, x, 22:30635
radiation effects on, oxidation states and recoils formed by thermal-neutron, 22:42724 (COO-1618-8)
radiation effects on, yields of recoil phosphorus-32 from neutron, 25:26318
radioinduced defects in, ESR measurement of ferroelectric domain switching from x-, (E), 23:14916
spectra of deuterated and normal, monocrystalline, at 20 to 300°K, ir absorption, 22:16532
spectra of ferroelectric phase transitions in, ir, 22:24408 (IA-1128, pp 21-54)
spectra of hydroxyl stretching frequencies in, infrared, 21:40772 (IS-1600, Paper 3)
spectra of single crystals of, effects of deuterium on polarized Raman, 25:12997
use in pyroelectric detectors for infrared radiation, 21:45375(T) (UCRL-Trans-10127)
KH_2PO_4—2-propanol, radiolysis of, role of excited water in yields of radicals from γ, 24:46274
KH_2PO_4—KI, use as chemical dosimeter for electron and gamma radiation, 22:2435
KH_2PO_4—methanol, radiolysis of, role of excited water in yields of radicals from γ, 24:46274
KH_2PO_4—Na_2HPO_3, radiolysis of, role of excited water in yields of radicals from γ, 24:46274
KH_2PO_4—sodium acetate, radiolysis of, role of excited water in yields of radicals from γ, 24:46274

POTASSIUM ACID SELENITES
crystal structure of, neutron diffraction studies on, 21:25820(R) (PRNC-94)
preparation and properties of, effects of deuterium on, 22:40085

POTASSIUM ACID SULFATES
analytical use of deuterated and normal, in conductance titration of fuming sulfuric acid, 21:8257
corrosive effects on carbon steels, stainless steels, and titanium of fused, relations with anodic passivation, 23:24798
effects on critical temperature of water, 22:25329 (ORNL-4229, pp 84-104)
solvent properties of aqueous solutions of, for zirconium oxide, 23:31343
I^-—$KHSO_4$—KI, radiolysis of deaerated solutions of, at 20°C, mechanism and yields from γ, 23:47479
I^-—$KHSO_4$—KI—K_2SO_4, radiolysis of deaerated solutions of, at 20°C, mechanism and yields from γ, 23:47479

POTASSIUM ALCOHOLATES
see also Potassium tert-Butoxide
see also Potassium Ethoxide
see also Potassium Methoxide
see also Potassium Phenoxide

POTASSIUM ALLOYS AND SYSTEMS
electromigration of liquid, 21:39646(R) (RPI-1044-13)
K—Na, detection in inert atmosphere at ambient pressure and temperature, system for, 23:4853 (NAA-SR-Memo-11848)

Ag—K, wetting properties of liquid, on solid metals below 200°C, 21:43598
Ar—K, current distribution and relaxation effects between segmented electrodes, (E), 23:34309 (IPP-3/63)
Ar—K, current distributions in flowing plasma in MHD channels with segmented electrodes, (E/T), 24:51480
Ar—K, effects of gas temperature on electric conductivity of, (E), 23:25329
Ar—K, effects on thermochemical protection of electrodes in MGD apparatuses, 23:51424
Ar—K, electric conductivity and electron temperatures in seeded plasma of, (E), 22:39052
Ar—K, electric conductivity measurements in plasma of, at various gas temperatures, 21:18640 (IPP-3/42)
Ar—K, electric conductivity of partially ionized plasma of, (T), 21:3818
Ar—K, electron temperature measurement in plasma jets of, using electric currents, 22:34608
Ar—K, electron temperature measurements in streaming plasma with electric current at 2000°K, 22:44086 (IPP-3/69)
Ar—K, heat transfer to electrodes from flowing plasma of, 25:33288
Ar—K, interatomic potential fitting from molecular beam scattering from, (T), 22:41349
Ar—K, ionization by dc electric fields and metastable nitrogen molecules, 22:34680
Ar—K, physical properties in electric discharges, 21:31445
Ar—K, plasma electric conductivity at moderate temperature, (E/T), 24:10523
Ar—K, plasma electric conductivity in crossed electric and magnetic fields, 22:3017 (IPP-3/59)
Ar—K, properties in magnetohydrodynamic generators, 24:5026 (IPP-3/97)
Ar—K, resonance radiation energy losses from plasma cylinders of, (T), 24:51667
Ar—K—Na, void fractions in flowing, gamma attenuation method for measurement of, 23:13938 (EUR-3935)
Bi—K, superconducting transition temperature of intermetallic Bi_2K, pressure dependence up to 10,000 atm., (E/T), 23:39409
C—K, phase equilibria of $C_{10}K$ in, 22:15141 (BNL-50057, pp 79-100)
Cd—K, vapors in heat pipes, use for reactor control elements of, 23:45144(P)
Cs—K, liquid—solid phase equilibria in, 24:33572(R) (COO-1707-8)
Cs—K—Na, physical properties of low eutectic, 21:43594
Cs—K—Na—Sb, spectral sensitivity of photocathodes of intermetallic $CsKNa_2Sb$, temperature effects on, 21:3338 (CEA-R-2995)
Cs—K—Na—Sb, use for photoelectric surface in photomultiplier tube, 22:12582
Cs—K—Rb, physical properties of low eutectic, 21:43594
Cs—K—Sb, use of CsK_2Sb as photomultiplier cathodes operating at temperatures up to 175°C, 22:40502
Cu—K, wetting properties of liquid, on solid metals below 200°C, 21:43598
graphite—K, phase equilibria and thermodynamic properties of, 22:4898
graphite—K, phase equilibria measurements of, 22:38510 (BNL-50082, pp 93-152)
He—K, electric conductivity and electron temperature in seeded plasma of, 22:39052
He—K, electron—ion recombination in high pressure plasma of, 21:18677
He—K, physical properties in electric discharges, 21:31445
He—K, plasma electric conductivity in crossed electric and magnetic fields, 22:3017 (IPP-3/59)
He—K, thermal properties of plasma of, 24:19878
Hg—K, electromotive force and total vapor pressure of, effects of composition and temperature on, 22:17102 (CU-2660-34)
Hg—K, thermodynamic properties of, 21:25935(R) (ANL-7225)
K—Kr, interatomic potential fitting from molecular beam scattering from, (T), 22:41349
K—LiF, miscibility in, 21:45088 (ORNL-4164, pp 95-100)
K—Na, analysis in waste calcination facility, 23:6 (IN-1203, pp 37-51)
K—Na, analysis of SNAP-8 coolant, for activation-, corrosion-, and fission-products, 21:12223
K—Na, bibliography on liquid, 21:18205 (TRG-Inf. Ser.-312(Suppl.1))
K—Na, combustion in waste calciner environment, 23:13824(R) (IN-1201)
K—Na, compatibility of liquid, with SAP—uranium carbide fuels, 23:51090
K—Na, compatibility with Inconel 718 and 750 tubular sections at 1050 to 1310°F, 25:35343 (WANL-TME-1857)
K—Na, compatibility with niobium—zirconium alloys in high-temperature radiator loops, 22:31327
K—Na, compatibility with type 316 stainless steel in high-temperature radiator loops, 22:31327
K—Na, contaminants in simulated SNAP-8 loops, control of, 22:40307 (N-68-11912)
K—Na, corrosion effects on brazed joints, 21:27785(R) (NAA-SR-12316)
K—Na, corrosive effects at 1400°F on Type 316 stainless steel loop in Waste Calcining Facility, 23:8109 (IN-1185)
K—Na, corrosive effects of liquid, on high-temperature alloys at 1000 to 1650°F, 21:4903 (ORNL-P-2704)
K—Na, corrosive effects on chromium—molybdenum steel, 21:20472(R) (NASA-CR-72146)
K—Na, corrosive effects on oxygen-contaminated tantalum at 1200 and 1350°F, effects of exposure time and welding on, 25:2623
K—Na, corrosive effects on reactor fuel cladding and structural materials, 23:9264
K—Na, corrosive effects on steels, 21:22845
K—Na, corrosive effects on test loop building materials, 21:32824 (JAERI-1129)
K—Na, corrosive effects on types 304, 316, and 348 stainless steel at 1000 to 1400°C, 21:28720 (IN-1089)
K—Na, corrosive effects on uranium at 900°C, 22:13077 (BNWL-473, pp 6.1-20)
K—Na, corrosive effects testing of eutectic, on SNAP-8 and -50 materials, 21:13110 (ORNL-3970, pp 245)
K—Na, crystal structure of, determination by neutron and x-ray diffraction, 22:28820
K—Na, design of loops for materials testing, 21:12548(R) (N-66-33975)
K—Na, effects of circulating, on mechanical and metallurgical properties of Type 316 stainless steel loop in waste calcining facility, 25:37944 (CONF-710310-1)
K—Na, effects of eutectic, on in-loop service performance of Type 316 stainless steel at 1400°F, 22:52140
K—Na, effects of liquid, on reactor materials, 21:14788
K—Na, effects of liquid, on uranium monocarbide fuel pins at 1000°C, 21:36942(R) (EURAEC-1869)
K—Na, effects of molten, on insulation properties of ceramics, 21:22901
K—Na, effects on burnup of type-316 and type-347 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel rods, analysis of, 22:25083(R) (GEAP-5541)
K—Na, effects on creep of chromium—molybdenum alloys, 21:36789(R) (NASA-CR-72257)
K—Na, effects on friction and wear of mechanical devices with rubbing surfaces, 23:11690 (LMEC-68-5(Vol.1))
K—Na, effects on mechanical properties of Type 304 stainless steel at high temperatures and pressures, 23:12295 (AI-AEC-12721, pp 187-209)
K—Na, effects on temperature of argon plasma, in electric fields, 22:3036
K—Na, effects on uranium monocarbide fuel pins at 950°C, 21:36943(R) (EURAEC-1870)
K—Na, electric conductivity of circulating, design of indicator for, 22:34049
K—Na, electric conductivity of, to 300°C, 25:55527
K—Na, electromigration at 80 to 280°C in liquid, effects of temperature on, 22:45765(R) (RPI-1044-18)
K—Na, electromigration in liquid, theoretical consideration of, 25:11404
K—Na, electrostatic probe measurements in flow of argon seeded with, 22:44097
K—Na, flow in loops, design of device for measuring temperature during, 22:12481
K—Na, flow of two-phase mixtures with argon, 21:41096 (EUR-3486.f)
K—Na, flow of, measurement using SNAP-10 magnetic pump, 22:23197 (ORNL-TM-2073)
K—Na, heat transfer between vertical plates with uniform heat flux, 21:1508 (NAA-SR-12004)
K—Na, heat transfer from liquid, design of heat exchanger for air dump, 22:10484 (ORNL-4159)
K—Na, heat transfer in 60 to 1600 Peclet Number range in single tube heat exchanger, 22:12522
K—Na, heat transfer properties of, 21:32293(R) (NAA-SR-12416)
K—Na, heat transfer to flowing, from heated rod bundles, 22:12526
K—Na, heat transfer to flowing, in tubes, 21:39120
K—Na, heat transfer to rod bundles from, measurement, 21:23710 (BNL-994, pp 45-69)
K—Na, hydromagnetic wave propagation in, magnetic modes of, 21:37258 (NP-16943)
K—Na, oxidation by dry oxygen as a function of pressure and temperature, kinetics of, 22:37711 (CEA-R-3301)
K—Na, phase diagram of, 25:55527
K—Na, phase studies at high pressures, 24:33573(R) (COO-1707-9)
K—Na, phase studies of liquid—solid equilibria in, 24:10098
K—Na, preparation of liquid weightless double lenses of gallium and, 22:42654(R) (NYO-2082-18)
K—Na, pressure transmitter using, design of prototype, 21:31898(R) (ANL-7329)
K—Na, processing of liquid, filtration method for, 21:20473(R) (NASA-CR-72156)
K—Na, properties for use as heat transfer medium in space power systems, review of, 24:51149 (AD-473754)
K—Na, radiation monitoring of SNAP-8 coolant, analysis of, 22:18543 (NAA-SR-Memo-11131)
K—Na, reactions of liquid, with poly(tetrafluoroethylene), 25:26211 (TRG-Report-2104)
K—Na, reactions with niobium-base alloys and stainless steel at 25 to 680°C, 23:8111 (ORNL-4370, pp 76-84)
K—Na, reactions with reactor containment and space power system materials at high temperature, review of, 24:51130 (AD-487718)
K—Na, solubility in ethanol, design of equipment for increased, 24:23453 (CEA-N-1178)
K—Na, solvent properties for hydrogen, effects of lithium additions, pressure, and temperature on, 21:30295
K—Na, solvent properties for nitrogen and rare gases, 24:19418 (LMEC-69-36)
K—Na, structure of liquid, by x-ray and neutron diffraction, 21:13187 (CONF-660935-3)
K—Na, temperature fluctuations in, turbulent, 21:36239
K—Na, temperatures of flowing, in vertical pipes with constant heat flux, 22:28006
K—Na, thermal conductivity in air, 24:25701
K—Na, thermal turbulence in flowing, measurement of, 23:17685
K—Na, thermodynamic measurements on, equipment for, 22:12271(R) (COO-1707-1)
K—Na, thermodynamic properties of liquid, 21:36073(R) (ANL-7350)
K—Na, transfer to irradiation capsules, using helium cover gas, method for, 24:44686
K—Na, use as heat exchange medium in Rankine power systems, 21:28153 (NASA-TN-D-4020)
K—Na, use as heat transfer medium in RISE, 21:1518 (AGN-8163(Vol.1))
K—Na, use as lubricant for tilting pad bearings, 22:23196 (NYO-3363-7(Vol.2))
K—Na, use in MHD induction generators, 22:31678
K—Na, vapor quality of liquid, design of meter for measuring, 22:40492
K—Na, void fraction measurements in vertical two-phase flow of, description of methods for, (E), 22:51172
K—Na—Rb, phase studies of, thermal methods for, 25:55524(R) (COO-1707-11)
K—Na—Rb, physical properties of low eutectic, 21:43594
K—Na—Sb, spectral sensitivity of photocathodes of intermetallic KNa_2Sb, temperature effects on, 21:3338 (CEA-R-2995)
K—Nb—O, reactions in solutions of, in equilibrium at 600°C, 23:15835 (ORNL-TM-2476)
K—O—Tc, preparation of compounds in, 22:4071(T) (ANL-Trans-539)
K—Pb, thermodynamic properties of, use of F centers in measurement of, 24:44026 (BNL-50205, pp 35-49)
K—Pu, phase studies of, 22:2655
K—Pu, properties of aerosols produced by combustion or vaporization of, 23:46010
K—Zn, wetting properties of liquid, on solid metals at 150°C, 21:43598
K-base—Na, melting mechanisms of, 21:41595

POTASSIUM ALUMINUM SULFATES
  performance as polarized proton targets, 25:53477
  properties of polarized proton targets of, 25:5450 (LA-4465, pp 4.1-2)
POTASSIUM AMERICIUM FLUORIDES
  crystal structure of $K_7Am_6F_{31}$, 22:2080
POTASSIUM AMIDES
  effects on deuterium concentration by ammonia—hydrogen exchange system, 22:16696(P)
  effects on deuterium exchange between gaseous hydrogen and liquid ammonia containing amines, 22:40195(P)
  reactions with atomic and molecular hydrogen, 23:40616 (UCRL-18735, pp 5-80)
  reactions with germane, silane, and tin hydride at -77°C in ammonia solutions, mechanism and products of, 21:35924 (UCRL-17602)
  reactions with uranium tetrachloride, 22:4141
  reactions with ytterbium(II) iodide in liquid ammonia, potentiometric titration studies of, 25:51423 (CONF-711001-(Vol.1), pp 315-21)
  ether—potassium amide, effects on deuterium exchange between hydrogen and liquid ammonia, 23:45395(P)
  H_2—KNH_2, radiolysis of aqueous solutions of, production of long-lived ammoniated electrons from γ, 25:57477
POTASSIUM AMIDOALUMINATES
  spectra of deuterated and normal, ir, 21:40826
POTASSIUM ANTIMONATES
  radiation effects on, ESR spectra of radicals from γ, 25:57445
POTASSIUM ANTIMONY HYDROXIDES
  radiation effects on crushed or γ-irradiated, annealing of neutron, 24:29333
POTASSIUM ANTIMONYL TARTRATES
  preparation of antimony-117-labeled, for use for liver scanning, 24:23271
POTASSIUM ARSENATES
  radiation effects on monocrystals of, ENDOR studies of x, 24:1472
  spectra of arsenic-75 in polycrystalline, nuclear quadrupole resonance, 23:7522
POTASSIUM ARSENIC FLUORIDES
  radiation effects on paramagnetic M centers in, gamma, 21:99
  radiolysis of, ESR studies on, 25:34634(R) (COO-1385-37)
POTASSIUM ASTATIDES
  molecular structure of, effects of temperature on interionic distances in, 24:18969
  thermal properties at 0 to 300°K, 22:45078
POTASSIUM AZIDES
  neutron reactions (n,p) with nitrogen-14 in, distribution of recoil carbon-14 from, 25:54687
  radiation effects on, hyperfine coupling and zero-field splitting for nitrogen atoms from γ, 25:51486
  radiation effects on, reactions of recoil carbon-14 from neutron, 22:12339(R) (COO-1620-2)
  radiation effects on, reactions of recoil carbon-14 from, 25:15705(R) (COO-1620-6)
  radiation effects on, yields of carbon-14-labeled compounds produced from neutron, 24:13872(R) (COO-1620-4)
  radiation effects on, yields of carbon-14-labeled products from, 23:13741(R) (COO-1620-3)
  radioinduced thermoluminescence of, gamma, x, and uv, 24:21855
  radiolysis of crystalline, effects of additives on yields from proton and γ, 25:54638
  radiolysis of, proton, 21:12463
  thermoluminescence of γ-, uv-, and x-irradiated, pure and doped, (E), 23:42411
POTASSIUM BARIUM FLUOROURANATES
  spectra of, reflectance, 23:33202
POTASSIUM BARIUM URANIUM OXYFLUORIDES
  preparation and properties of, 23:28814
POTASSIUM BERYLLIUM FLUORIDES
  K_2BeF_4—K_3YF_6, phase diagram of, 22:45079
POTASSIUM BORATES
  corrosive effects on Dragon Reactor mild steel secondary circuits at uniform heat transfer conditions, 25:22010 (DP-Report-532)
  radiation effects on recoil bromine-82g distribution in neutron-irradiated, γ, 22:12384

radioinduced centers in glasses of, absorption and ESR spectra of γ-, 24:5199
radioinduced intrinsic defect center in glasses of, ESR studies of low-temperature x-, 25:52928
POTASSIUM BOROHYDRIDES
hydrolysis of KB$_3$H$_8$ in hydrochloric acid, 25:41778 (UCRL-20500, pp 1-85)
radiation effects on, ESR spectral studies on free radicals produced by γ, 24:4309
POTASSIUM BROMATES
bromine-80 isomeric transitions in, thermal annealing of recoils produced by, 25:6383
bromine-80g recoil mechanisms in crystal lattices of, in isomeric transition from bromine-80m, 24:48117
bromine-80m isomeric transition in, thermal annealing of recoils from, 23:31380
bromine-80m isomeric transitions in, 24:19002
effects on γ-induced decomposition of cobalthexaammine nitrate, 25:168
effects on oxidation of hexavalent neptunium ions, 25:15568
enthalpy of formation of, 24:43990 (ANL-7650, pp 23-34)
enthalpy of formation of, 23:26209 (ANL-7550, pp 35-73)
krypton-83 Moessbauer effect in, 22:24408 (IA-1128, pp 21-54)
krypton-83 Moessbauer effect in, (E), 22:9477
krypton-83 Moessbauer effect studies on, (E), 22:1292 (IA-1132)
radiation effects on crystalline, chemistry of bromine-82 recoil atoms produced by neutron, 21:45145 (ORNL-4164, pp 35-45)
radiation effects on crystals of, photoannealing of γ, 25:31954
radiation effects on thermal decomposition of, 22:15231
radiation effects on, compression annealing of γ, 21:45165
radiation effects on, distribution of bromine-82g recoils in various bromine oxidation states, neutron, 22:12384
radiation effects on, high-temperature Szilard—Chalmers annealing of neutron, 24:11591
radiation effects on, in presence of oxygen-18, production of oxygen-18-labeled products from, 25:54633(R) (ORO-3660-4)
radiolysis of aqueous solutions of, absorption spectra of bromate radicals produced by electron pulse, 25:18448(R) (CEA-N-1369)
radiolysis of, ESR studies on yields of bromate radicals from γ, 24:27143
sensitizing effects of, on γ-irradiated Escherichia coli, 23:38901
POTASSIUM BROMIDES
see also Potassium Uranyl Bromides
analysis for impurities by elastic scattering of charged particles, 23:9330
analysis for iodine as iodide, potentiometric, 25:57314
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
bremsstrahlung absorption in different thicknesses of, (E), 22:9451
bremsstrahlung absorption in single crystals of, 21:5325
bremsstrahlung scattering at 30 MeV in, effects on absorption coefficient, (E), 21:23261
bremsstrahlung transmission and absorption in, depth distribution of, (E/T), 25:49960
bromine NMR in single crystals of, quadrupole effects in, (E), 22:11540
bromine-82 exchange between platinum bromide complexes containing ammonia and, mechanism of, 22:30574
central instability in KBr:Li$^+$, 24:48008 (NYO-2391-118)
color centers in, analysis using pulsed electron beams, 22:11516
color centers in, thermoluminescence analysis of F' and M', 21:5333
defect-induced infrared absorption in lithium ion-doped, isotope effects on, 25:12043
density at 792 to 998°C, 21:23861(R) (ORO-2073-12)
density in methanol, estimation of partial molal volumes from, 24:11505 (IA-1190, pp 133-81)
dielectric constant of, low-frequency, 25:6228 (COO-623-153)
dielectric constants of, pressure and temperature dependences of static, 25:5168(R) (COO-623-156)
diffusion into potassium chloride single crystals, effects of x irradiation on inter-, 21:30465
diffusion of argon and xenon in, effects of doping on, 21:27965
diffusion of argon in solid, 21:14881(R) (EURAEC-1650)
diffusion of argon-39 and -41 from neutron-irradiated single crystals of, (E), 21:44184
diffusion of bromine in, isotopic exchange measurements, 21:44187
diffusion of xenon in, mechanisms, 23:34095
dislocation motion in secondary slip planes of single-crystal, 24:26331
distribution from crossed-beam reactions of potassium with deuterium and hydrogen bromides, (E), 22:5112
ductility at low temperatures of crystals of, (E), 23:3615
effects of, on zinc halide distribution between lithium nitrate—potassium nitrate and polyphenyl eutectics, 21:5834 (IA-1082, pp 77-202)
effects on critical temperature of water, 22:25329 (ORNL-4229, pp 84-104)
effects on isolation and decay of radioinduced carbonate and carbon dioxide anion radicals, matrix, 24:41365
effects on kinetics of γ-radioinduced graft polymerization of poly(ethylene terephthalate) with acrylic acid, 25:46504
effects on properties and structure of heavy water—water mixtures, emf studies on, 21:30424
effects on reactions of recoil chromium-51 in potassium chromates, 22:25398
effects on yields from γ radiolysis of S-allyl-L-cysteine sulfoxide and S-propyl-L-cysteine sulfoxide, 25:26294
electron channeling patterns in crystals of, electron microscopy studies on, 24:43934(R) (AECL-3556)
electron degradation at 0.1 to 15 keV, calculations of, 23:3609
electron reactions with films of, energy loss and optical constants for 51-keV, (E/T), 22:41355
electron reactions with, energy loss in, (E), 22:29204
electron/positron backscattering from single crystals of, channeling and temperature effects on, 25:52916
F centers in crystals of, effects of external electric field on electron—nuclear double resonance of, (T), 24:49264
F-center spectra of, isotope splitting of, (E/T), 25:9585
field gradients at bromine nuclei around substitutional chlorine ion in, NMR measurements of, 22:20084
gold nuclei condensation from atomic beam on crystals of, effects of radiation on, 25:29910
infrared absorption by, temperature dependence of impurity-induced, (E), 21:21054 (NYO-2391-19)
intermolecular frequencies of water molecules in aqueous solutions of, slow neutron inelastic scattering measurements on, 23:6093(R) (NP-17690)
krypton ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
krypton-83 Moessbauer effect in, 22:24408 (IA-1128, pp 21-54)
krypton-83 Moessbauer effect in, (E), 22:9477
krypton-83 Moessbauer effect studies on, (E), 22:1292 (IA-1132)
microhardness of crystals of, effects of plastic deformation on, 21:45168
neutron inelastic scattering by crystals of, interference between one- and multiphonon processes in, (E), 23:51792
neutron reactions with, at 500 keV, 22:3169(R) (NYO-3822-2)
oxygen molecular ion (O_2^-) ENDOR in, 22:50225 (UR-3388-10)
oxygen molecular-ion reorientation in paraelastic relaxation of lattice, ESR study of isotope effect in, 24:24170
partition function ratio of isotopic, 21:1349
phonon velocity in, temperature dependence of, (E), 21:33954(R) (AECL-2687)
photoeffect quantum yields from, (E), 22:38799
photoelectric mechanism in crystals of, 21:29368
photoluminescence in crystals containing alkali metal impurities, role of bound excitons in, 21:25182
photon—electron transformation in thin crystals of, 24:28430
positron backscattering by single crystals of, effects of channeling on, (E), 25:7137
potassium ion reactions with, temperature dependence of electron emission from, (E), 21:37597
proton channeling at 1.5 MeV in single crystals of, 24:21877
proton channeling in [100] planes of single-crystal, at 4.7 and 6.72 MeV, 23:20992
proton channeling in crystals of, effects of radiation damage on, 25:3201
proton channeling in monocrystals of, energy distributions of, 25:7464
proton channeling in, at 6.72 MeV, 23:7053
proton energy loss spectra in single crystals of, effects of crystal orientation on 6-72-MeV, 22:46248
proton transmission in single-crystal, energy losses in, (E), 23:12986
radiation damage in, efficiency of negative ion vacancy formation in, 24:47310
radiation effects on crystals of, monochromatic x, 22:47448(R) (PRNC-69)
radiation effects on crystals, anomalous F-coloring in interruptions of irradiation, (E), 24:42763
radiation effects on electric conductivity of deformed single crystals of, x-, (E/T), 24:19943
radiation effects on electric conductivity of, ionic displacement current in random-walk annealing of gamma, (E/T), 24:26308
radiation effects on microhardness of crystals of, filtered and nonfiltered x-ray, 21:45168
radiation effects on range of leading dislocations of etch-figure stars in crystals of, neutron, 24:6628
radiation effects on scanning-electron-microscopic channeling patterns from single crystals of, 25:45550
radiation effects on stored energy in crystals of, kinetics of proton, (E), 21:21076
radiation effects on thallium-activated crystals of, photoscintillations in x-, 25:3194
radiation effects on, at 20°K, x, (E), 22:13605
radioinduced activator centers in europium-activated crystals of, structure of x, 22:9442
radioinduced anion vacancies in thallium-doped, studies of x, 23:5452(R) (NYO-3842-5)
radioinduced aquoluminescence of, mechanism of γ, 25:4076
radioinduced B centers in silver-doped crystals of, formation mechanism of x-, (E), 24:30391
radioinduced colloidal centers in activated crystals of, spectra of, 24:45326
radioinduced color centers at 80°K in sodium-doped, x-, 23:14915
radioinduced color centers in crystals doped with alkaline earths, proton, 21:27238
radioinduced color centers in crystals of, absorption spectra and growth of reactor, 24:26301
radioinduced color centers in single crystals of, ionic processes in thermal bleaching of γ, 23:40416
radioinduced color centers in, effects of alkali-metal impurities on 80°K x, 24:42788
radioinduced color centers in, effects of deformation-induced electric field on photoconductivity of x-, (E/T), 24:32901
radioinduced color centers in, properties of V, x, (E), 21:7344
radioinduced color centers in, Stark effect in x-, 22:22199 (COO-1105-128)
radioinduced color centers in, temperature dependence of F, K, and M bands in x, 22:52894
radioinduced color centers in, x, 23:25427 (EUR-3940-1, pp 177-97)
radioinduced defects at liquid helium and nitrogen temperatures in crystals of, vacancy and interstitial, 23:32576
radioinduced defects at low temperatures in, volume expansion study of relaxation of x-, (E/T), 24:45335
radioinduced defects in calcium-doped, optical-absorption study of x, 21:37602
radioinduced defects in crystals of, evidence for Frenkel, x, (E), 22:37045
radioinduced defects in crystals of, thermally stimulated conductivity spectrum of neutron and gamma, (E/T), 24:12886
radioinduced defects in crystals of, thermally stimulated conductivity and luminescence study of annealing of 10°K γ, 25:5158
radioinduced defects in crystals of, volume change from low-energy x-, (E), 24:30395
radioinduced defects in pure and impure crystals of, absorption spectral study of annealing of pile-neutron, (E/T), 24:30396
radioinduced defects in, low-temperature annealing of gamma- and neutron, (E), 23:14873
radioinduced defects in, mechanism of temperature dependence of production of x-, 25:22604
radioinduced defects in, temperature effects on x, 22:1331
radioinduced defects in, thermal stability and properties of x-, 23:14875
radioinduced energy storage in crystals of, luminescence from aqueous release of γ, 25:2227
radioinduced exoelectron emission from thin film, x-, 24:45324
radioinduced F centers at 78°K in crystals of, effects of bromine K edge energy on x, (E), 22:44206 (CONF-680902-3)
radioinduced F centers at 78°K, effects of energy below and above bromine K edge on formation of x-, (E), 24:42759
radioinduced F centers in crystals of, effects of light bleaching on x, 21:18796 (COO-525-23)
radioinduced F centers in europium-activated crystals of, effects of temperature on x, 23:44522
radioinduced F centers in single crystals of, channeling effect in electron, 24:18023
radioinduced F centers in single crystals of, electron range and nonuniform coloration in electron, (E/T), 24:42764
radioinduced F centers in single crystals of, saturation of electron, 23:44534
radioinduced F centers in, effects of bromine K-shell ionization on formation of x, (E), 22:5421 (PRNC-106)
radioinduced F flash and luminescence in activated phosphors of, temperature dependences of, 21:29370
radioinduced Frenkel defects in low-temperature, x-, 22:31981
radioinduced H centers in crystals of, annealing kinetics of 10°K gamma, 24:8520 (NYO-3822-17)
radioinduced interstitial centers at 4 and 77°K in pure and lithium- and sodium-doped crystals of, x-, (E/T), 24:37538
radioinduced interstitial centers in, effects of sodium doping on x, 23:42421
radioinduced interstitial defects in, annealing kinetics of neutron and gamma, 25:38542 (NYO-3822-18)
radioinduced luminescence and photoluminescence in europium-activated crystals of, mechanism of x, 22:9441
radioinduced luminescence in crystals containing alkali metal impurities, role of bound excitons in, 21:25182
radioinduced luminescence in europium-activated, electron-capture levels from x-, (E), 25:52923
radioinduced luminescence of activated crystals of, effects of storage on, 21:29374
radioinduced luminescence of indium- and thallium-activated, effects of temperature on, (E), 21:11717
radioinduced luminescence of indium- and thallium-activated, electron—hole component of, 21:21061
radioinduced luminescence of phosphorus-activated crystals of, 21:29373
radioinduced luminescence of thallium-activated crystals of, flash x-, (E), 25:3193
radioinduced M and F centers in crystals of, laser re-excitation and decay of γ, (E/T), 25:11956
radioinduced reduction of cadmium ions in crystals of, magneto-optical study of x-,, 25:56320
radioinduced scintillations in thallium-activated, temperature dependence of relative quantum efficiency of F- and Tl^0-, 22:34769
radioinduced thermally stimulated conductivity of single crystals of, gamma and neutron, 25:3202
radioinduced thermoluminescence of crystals of undoped and copper-doped, x-,, 25:56323
radioinduced thermoluminescence of silver-activated, x, 21:2301
radioinduced V centers in single crystals of, effects of plastic deformation on 2-MeV electron, 25:52911
radioinduced V centers in single crystals of, temperature dependence of production of x, (E), 25:19855
radioinduced volume expansion of, low temperature x-, 22:22236
radiolysis in air, mechanism of formation of nitrate ion on crystal surface from, 25:54633(R) (ORO-3660-4)
radiolysis of aqueous solutions of, mechanism of x, 21:25873(R) (NYO-3383-06)
radiolysis of deaerated sulfuric acid solutions of, gamma, 21:14251
radiolysis of frozen aqueous solutions of, ESR study of hydrogen atoms and hydroxyl radicals from, 25:57467
radiolysis of, yields from gamma, 21:24039
rare-gas atom and ion reactions with, electron emission induced from single crystals by 0.2- to 6.0-keV, (E), 25:35840

recombination luminescence mechanism in europium-doped crystals of, 25:7459
solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
spectra of lithium-doped, electric field-induced shift in far-infrared, 25:7474 (NYO-2391-119)
spectra of lithium-doped, lithium isotope effects on far infrared, (E/T), 22:24432
spectra of lithium-doped, pressure dependence of far ir, 25:48387 (NYO-2391-131)
spectra of uv-irradiated KSH and KSeH doped single crystal of, ESR, (E/T), 22:41649(T) (NRC-TT-1311)
spectra of, effects of heavy water as solvent on far-infrared, 22:16520
spectra of, isotope effects on role of oxygen impurity centers in, 22:8062
spectra of, isotope splitting of F-center in-gap mode of absorption, 24:48007 (NYO-2391-115)
spectra of, production and measurement of F' band in, 21:44153 (IS-T-179)
spectra of, second-order effects in ENDOR, 23:8693
structure of molten, viscosity measurements on, 21:23861(R) (ORO-2073-12)
temperature dependence of the brightness of x-ray luminescence and optical flash in activated phosphors of, (E), 22:3188
thermodynamic properties of, in aqueous and nonaqueous solutions at 25°C, 21:25822(R) (TID-22366)
vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
viscosity of aqueous solutions of, effects of deuterium on, 24:41279
volume changes on mixing aqueous solutions of, with tetraalkylammonium bromides, effects of deuterium in water on, 22:23011
xenon ion penetration at 40 keV in, range and depth distribution of, (E), 21:2331
xenon ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
xenon-ion reactions at 40 keV, with, temperature effects on gas trapping in, 23:8672
AgBr—KBr, cation mobility in molten, 21:38927(R) (NYO-3608-4)
AlBr$_3$—KBr, distribution of metal halides between immiscible liquid phases of, 21:4607
CdBr$_2$—KBr, density at 500 to 900°C, 21:23861(R) (ORO-2073-12)
CdBr$_2$—KBr, structure of molten, surface tension measurements on, 21:23861(R) (ORO-2073-12)
CdCl$_2$—KBr, density at 397 to 994°C, 21:23861(R) (ORO-2073-12)
CdCl$_2$—KBr, structure of molten, surface tension and viscosity measurements on, 21:23861(R) (ORO-2073-12)
ethanol—KBr, radiolysis of aqueous solutions of, hydroxyl radical reactions in γ, 21:36046
KBr—KCl, heat of formation of solid solutions of, effects of composition on, (E), 21:21079
KBr—KCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KBr—KCl, radiation effects on mixed crystals of, reactions of recoil sulfur-35 in neutron, 24:11617
KBr—KCl, radiation effects on stored energy of solid solutions of, proton, (E), 21:21079
KBr—KCl, radiation effects on thermal expansion coefficient of solid solutions of, gamma, 25:40770
KBr—KCl, radioinduced color center stability in mixed crystals of, proton, 23:1550
KBr—KCl, radioinduced F centers in mixed crystals of, efficiency of 5°K electron, 23:25457
KBr—KI, spectra of mixed crystals of, far-infrared absorption, 22:3168 (NYO-2391-64)
KBr—KNO$_3$, radioinduced decomposition in, energy transfer in, 25:4096
KBr—KNO$_3$—LiNO$_3$, zinc bromide distribution in molten, at 150 and 200°C, kinetics of, 24:11505 (IA-1190, pp 133-81)
KBr—KNO$_3$—NaNO$_3$, corrosive effects on Zircaloy-2 and Zircaloy-4 at 300°C, 25:24532 (AECL-3799)
KBr—LiBr, lithium-7 concentration in fused, by electromigration, 24:11680
KBr—LiBr, spectra of nickel(II) light absorbing centers in fused, 23:8323 (ORNL-4370, pp 39-44)
KBr—methanol, radiolysis of aqueous solutions of, hydroxyl radical reactions in γ, 21:36046
KBr—MgBr$_2$, spectra at 400°C, Raman, 25:58387(R) (ANL-7823)
KBr—MgBr$_2$, spectrum of molten, Raman, 24:1309 (ANL-7575, pp 136-69)
KBr—MgBr$_2$—NaBr, analytical use in liquid metal-molten salt transport process for reactor fuel separations, 21:4590 (ANL-7125, pp 21-60)
KBr—NaBr, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KBr—NaCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KBr—RbBr, phonon frequency spectrum in, measurement using neutron scattering, (E), 21:40473(R) (PR-P-74)
KBr—TlBr, radioinduced thallium atoms in crystals of, $^2P(^1/_2)$ to $^2P(^3/_2)$ transitions of gamma, (E), 21:16977
KBr—ZnBr$_2$, structure of molten, Raman spectral studies on, 21:23861(R) (ORO-2073-12)
KBr—ZnCl$_2$, structure of molten, Raman spectral studies on, 21:23861(R) (ORO-2073-12)
KBr-base—Mg, optical absorption and electric conductivity of diffused crystals of, 25:9570
POTASSIUM BROMORHENATES
enthalpy of formation and free energy for, 24:48066 (ORNL-4581, pp 90-130)
POTASSIUM tert-BUTOXIDE
catalytic properties in ether solutions, ir spectral studies on, 21:21958
deuterium exchange between benzazole and its 2-methyl derivatives, kinetics of, 23:150
deuterium exchange between fluorene and, in 2-methyl-2-propanol, mechanism of, 22:37725
deuterium exchange between furan or methylfurans and, in dimethyl sulfoxide solutions, 22:45042
effects on deuterium exchange between methyl sulfoxide and phenyl ether, diphenylmethane, furan, methyl phenyl sulfide, thiophene, or toluene, catalytic, 22:45087
effects on stereochemistry of deuterium—hydrogen exchange between 1-methoxyacenaphthene and tert-butyl alcohol, 23:155
reaction of, with 2-arylethyl bromides in t-butyl alcohol, 21:14208
reactions with 3-halopentanes in 2-methyl-2-butanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719
reactions with fluorene in 2-methyl-2-propanol, mechanism of autoxidation, 22:37725
2-methyl-2-propanol—methyl sulfoxide—potassium tert-butoxide, proton transfer reactions in, deuterium kinetic isotope effects in, 22:6301
2-methyl-2-propanol—potassium t-butoxide, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
2-methyl-2-propanol—potassium t-butoxide, deuterium exchange between, and allylbenzene or propenylbenzene, 21:8288
Potassium Carbide KC$_8$
see Potassium Graphite
Potassium Carbide KC$_{24}$
see Potassium Graphite
POTASSIUM CARBONATES
see also Potassium Neptunyl Carbonates
see also Potassium Uranyl Carbonates
analysis for oxygen by neutron activation, 22:30457
complexes with thorium oxalates, preparation and properties of, 21:19606
conversion to bicarbonate in combustion products from gaseous MHD generator, 25:7213
effects as seed on combustion products of methane and residual oil in air, 22:26275
effects on electric conductivity of nitrogen plasma, 22:39126
effects on potassium-42 and sodium-24 metabolism in nonlactating cattle, supplemental dietary, 24:41747
effects on production of water-d$_2$ by electrolysis, 23:31406(P)
gamma spectra of neutron-irradiated, measurements of prompt, 25:23535
purification of potassium-42-labeled, by ion exchange, 25:11046
radiation effects on glassy aqueous solutions of, yield of trapped electrons from, 23:47498
radiation effects on thermoluminescence of heated, gamma, 23:40860
radiation effects on, production of carbonate anion radical from, 24:41365
radiolysis of frozen aqueous solutions of, EPR spectral studies on γ, 22:33424
reactions with americium for separation from curium, 22:18877
reactions with americium, spectral studies on solubility and stability of compounds produced by, 23:28819
reactions with dichlorodifluoromethane at 450 to 800°C, production of corresponding chloride and/or fluoride compounds by, 24:41296
solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
solvent properties of aqueous solutions of, for zirconium oxide, 23:31343
spectra of hydroxyl stretching frequencies in, infrared, 21:40772 (IS-1600, Paper 3)
use in separation of americium and curium, 22:21090 (DP-1109)
H$_2$O—EuCl$_3$—K$_2$CO$_3$, phase composition and solubility of, 25:32809
H$_2$O—K$_2$CO$_3$—NdCl$_3$, phase composition and solubility of, 25:32809
H$_2$O—K$_2$CO$_3$—YbCl$_3$, phase composition and solubility of, 25:32809
K$_2$CO$_3$—Li$_2$CO$_3$, properties of fused, for use in fuel reprocessing, 21:10428
POTASSIUM CERIUM FLUORIDES
crystal structure of, 22:25328 (ORNL-4229, pp 50-67)
POTASSIUM CHLORATES
analysis for water, microchemical method for, 22:9(R) (NBS-TN-425)
corrosive effects on carbon steels, stainless steels, and titanium of fused, relations with anodic passivation, 23:24798
effects on distribution of pertechnetate in brain tissues, 21:34695
effects on electric conductivity of nitrogen plasma, 22:52769 (AD-672249)
effects on oxidation of hexavalent neptunium ions, 25:15568
effects on reactions of magnesium with niobium pentoxide to produce niobium metal, 23:35121
effects on uptake of technetium by brain tissues, choroid plexus, and thyroid gland in man, 22:36325
positron annihilation in, effects of temperature on, 25:12898 (NYO-3661-33)
radiation effects on crystalline, chemistry of chlorine-38g recoil atoms produced by neutron, 21:45145 (ORNL-4164, pp 35-45)
radiation effects on crystalline, production of chlorite and perchlorate ions from γ, 23:17493
radiation effects on ir absorption spectra of crystalline, γ, 23:17493
radiation effects on oxygen-17-enriched single crystals of, ESR study of O$_2^-$ radical ion from x, 24:7481
radiation effects on single crystal, EPR and optical absorption spectra of ClO$_2$ from x, 23:42462
radiation effects on, chemical states of recoil sulfur-35 from neutron, 25:13065
radiation effects on, distribution of recoil chlorine-38g in chlorine valence states following neutron, 23:234
radiation effects on, in presence of oxygen-18, production of oxygen-18-labeled products from, 25:54633(R) (ORO-3660-4)
radioinduced centers in crystals of, absorption and EPR spectra of x, 23:51779
radioinduced decomposition of crystalline, yields in γ, 22:10278
radioinduced infrared and ultraviolet absorption bands in, effects of optical and thermal bleaching on x, (E), 22:7385
radioinduced ion formation (Cl$_2^-$) in, EPR and optical absorption study of, x, (E), 23:25449
radiolysis of crystal line, yields of perchlorate ion in gamma, 23:217 (ORNL-4306, pp 58-65)
radiolysis of crystalline, yields from γ, 24:46280
radiolysis of crystals of, stable yields from γ, 24:48111 (ORNL-4581, pp 70-83)
radiolysis of, effects of annealing on chlorite ions produced from γ, 24:5683
radiolysis of, yields in electron, 22:16589
sensitizing effects of, on γ-irradiated Escherichia coli, 23:38901
spectra of x-irradiated, infrared absorption, 22:44241
POTASSIUM CHLORIDES
see also Potassium Copper Chlorides
see also Potassium Platinum Chlorides
see also Potassium Rhenium Chlorides
see also Potassium Uranyl Chlorides
see also Sylvites
activity coefficients for, in aqueous solutions, electrochemical studies on, 21:45087 (ORNL-4164, pp 57-82)
activity coefficients of, in potassium chloride—potassium nitrate systems at 25°C, 23:103 (ORNL-4306, pp 73-105)
analysis for chloride, coulometric, 22:9(R) (NBS-TN-425)
analysis for clarkeites by measuring uranium fission product tracks, 21:42890
analysis for iodine as iodide, potentiometric, 25:57314
analysis of sylvinite for argon, activation, 21:25784
analysis of, for sodium traces, activation, 21:5834 (IA-1082, pp 77-202)
argon diffusion in neutron-irradiated single crystals of, (E), 21:29354
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
bremsstrahlung absorption in different thicknesses of, (E), 22:9451
bremsstrahlung absorption in single crystals of, 21:5325
bremsstrahlung scattering at 30 MeV in, effects on absorption coefficient, (E), 21:23261
bremsstrahlung transmission and absorption in, depth distribution of, (E/T), 25:49960
bremsstrahlung transmission at 10 MeV, effect of crystal thickness and beam diameter on, (T), 22:21892
chlorine isotope exchange between platinum coordination compounds and, cis- and trans-effect in, 23:174
colloid induced by impurity silver and thallium in crystals of, 25:14429
color center wave functions in, crystal field effects on F, 22:41642 (COO-1197-31)
color centers in crystals of, effects of hydrostatic pressure and temperature on, (T), 22:9440
color centers in crystals of, mechanism of conversion of F to M and R centers, 22:20038(R) (COO-1052-9)
color centers in strontium-activated monocrystal of, Stark effect of Z, (E/T), 22:47383 (TID-24640)
color centers in sulfur-containing crystals of, optical absorption and photochemical properties of SH', S', and S", (E), 22:15574(T) (NP-tr-1614)
color centers in, analysis using pulsed electron beams, 22:11516
color centers in, electron-nuclear double resonance of F, 21:3929
color centers in, EPR study at 4°K of F, 21:23246(R) (IITRI-578-P-9-21)
color centers in, Stark shift of optical zero phonon line of R$_2$ band, (E), 21:11695(R) (NYO-2150-22)
color centers in, thermoluminescence analysis of F' and M', 21:5333
color centers induced by stress in gamma-irradiated crystals of, luminescence and stability of M, 23:32568
compressibility and sound velocity of aqueous solutions of, at 25°C, 21:40814 (COO-504-11)
content of growth solutions for paramecia, effects of, on uv-radiosensitivity of osmoregulation, 22:15121
corrosive effects of fused, on zirconium, 21:26756
corrosive effects on stressed titanium—aluminum—molybdenum—vanadium alloy at 650°F, 22:28733 (DP(NASA)-941)
corrosive effects on titanium-base alloys under potentiostatic conditions and stress, 23:36008
defect structure from rare-gas diffusion, 21:44186
defect-induced infrared absorption in lithium ion-doped, isotope effects on, 25:12043
defects in additively colored crystals of, 23:51786
defects in crystals of, polarization energy for, (T), 22:7350(R) (NYO-3657-2)
defects in crystals of, Stark effect on F-center emission band, (E/T), 22:15567 (NYO-3564-9)
defects in, Stark splitting of R-center, (E/T), 22:3167 (NYO-2150-34)
deformation of single crystals of x-irradiated luminescence caused by, 22:5452
density at 818 to 1057°C, 21:23861(R) (ORO-2073-12)
density in methanol, estimation of partial molal volumes from, 24:11505 (IA-1190, pp 133-81)
density of aqueous solutions of, at 25 to 374°C, 24:176 (ORNL-4422, pp 304-5)
density of aqueous solutions of, from 25 to 374°C, 24:27057
dielectric constant of, low-frequency, 25:6228 (COO-623-153)
dielectric constants of, pressure and temperature dependences of static, 25:5168(R) (COO-623-156)

dielectric relaxations in additively colored crystals of, (E) , 21:823 (AD-635005)
diffusion and transference numbers of, in fused salt mixtures, 21:23710 (BNL-994, pp 45-69)
diffusion into potassium bromide single crystals, effects of x irradiation on inter-, 21:30465
diffusion of argon in, 24:2266(R) (HMI-B-84)
diffusion of argon in solid, 21:14881(R) (EURAEC-1650)
diffusion of argon-39 and -41 from neutron-irradiated single crystals of, (E), 21:44184
diffusion of argon-39 and -41 in neutron-irradiated single crystals of, 22:3197
diffusion of chlorine in, at 685, 745, and 797°C, 21:32146(R) (TID-23874)
diffusion of helium bubbles in monocrystalline, effects of 605°C/cm temperature gradients on, 23:34093
diffusion of molybdenum and uranium in molten, 21:5873
diffusion of oxygen-18-labeled water in concentrated aqueous solutions of, 21:8260
diffusion of rare gases in, 21:15796
diffusion of thallium in, at 230 to 865°C, 24:32502(R) (MIT-3773-84)
diffusion of uranium dioxide in, determination by neutron fission recoil tracks from uranium-235, 25:4845
diffusion of water molecules in aqueous solutions of, kinetics of, 23:6093(R) (NP-17690)
diffusion of xenon in monocrystalline, effects of gas and radioinduced defect concentration on, 23:34123
dilution of aqueous solutions of, effects of deuterium on heat of, 23:35117
dislocation motion in secondary slip planes of single-crystal, 24:26331
dislocations in barium-doped crystalline, effects of impurities on, 24:8041 (AERE-R-5944(Vol.3))
dissociation potential of, used for seeding MHD generators, 24:45078
ductility at low temperatures of crystals of, (E), 23:3615
effects as eluent on gel chromatography of metals on Sephadex G-15 columns, 25:6409
effects as salting-out agent in solvent extraction of nitric and perchloric acids by TBP, 23:28965
effects of concentration of, on structure of irradiated mammalian chromosomes, 21:11140(R) (ORO-2832-48)
effects of pulsed electrons on single crystals of, spectral studies on, (E/T), 25:27846
effects of, on sorption of ruthenium-106 by activated manganese dioxide, 21:3053
effects of, on thermal decomposition of ammonium perchlorate, catalytic, 21:5834 (IA-1082, pp 77-202)
effects of, on zinc halide distribution between lithium nitrate—potassium nitrate and polyphenyl eutectics, 21:5834 (IA-1082, pp 77-202)
effects on anodic oxidation of niobium in solution, 23:24799
effects on calcium-45 uptake and release by rat brain microsomes, 25:55120
effects on calcium-45 uptake by microsomes of rat brain, 23:22226
effects on critical temperature of water, 22:25329 (ORNL-4229, pp 84-104)
effects on determination of polonium-210 in rocks and uranium ores by spontaneous deposition on silver, 23:89
effects on determination of trace amounts of rare earths in lanthanum oxides and yttrium oxides by emission spectrometry, 24:24994
effects on γ-induced decomposition of cobalthexaammine nitrate, 25:168
effects on hydrolysis of hydrated thorium tetrafluoride at 700°C, 22:37719(T) (UCRL-Trans-10235)
effects on ionization of strontium, 25:15497
effects on isolation and decay of radioinduced carbonate and carbon dioxide anion radicals, matrix, 24:41365
effects on kinetics of γ-radioinduced graft polymerization of poly(ethylene terephthalate) with acrylic acid, 25:46504
effects on leachability of radium from uranium ores, 22:25478
effects on paper chromatographic separation of rare earths, 23:49899
effects on polarization of molybdenum, nickel, platinum, and tungsten at 800°C, 24:11502 (CEA-N-1148, pp 125-32)
effects on polarization of molybdenum, nickel, platinum, and tungsten at 800°C, 24:23427(T) (ANL-Trans-798)
effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
effects on properties and structure of heavy water—water mixtures, emf studies on, 21:30424
effects on radioinduced curing of condensation-type prepolymers, catalytic, 23:26286
effects on reactions of recoil chromium-51 in potassium chromates, 22:25398
effects on recovery of Streptomyces sp. from lethal and mutagenic doses of uv radiation, 22:23690
effects on retention of cesium-137 in muscles of rats, 22:43249
effects on rubidium-86 uptake by corn root segments, 22:33775
effects on separation of strontium-90 and yttrium-90 using alkylarylsulfonic acid foams, 22:45166
effects on strontium-85 metabolism in bones of mice, 21:43329
effects on temperature of maximum density of normal and heavy water, 22:42684
effects on yields in radiolysis of aqueous solutions, 22:23034 (IA-1128, pp 78-96)
electric conductivity in water and heavy water at -2 to 12°C, 21:27952
electric conductivity of aqueous solutions of, at 0 to 800°C and to 4000 bars, 21:22841 (ORNL-4076, pp 55-79)
electron channeling patterns in crystals of, electron microscopy studies on, 24:43934(R) (AECL-3556)
electron degradation at 0.1 to 15 keV, calculations of, 23:3609
electron density and x-ray scattering of, 21:34910
electron reactions at 10 to 50 keV with single crystals of, quasi-elastic ejection of valency electrons in, (T), 22:50036
electron reactions at 4 to 12 keV with films of, secondary electron emission in, (E/T), 22:49988 (SLAC-86)
electron reactions with, energy loss in, (E), 22:29204
electron scattering at 1.6 keV, secondary electron emission from plasmon decay in, (E), 24:46997
electron scattering from [100] faces of, energy distribution of, (E), 21:16985
electron spin resonance spectra of cyanogen radicals and lithium ions in, 22:15566(R) (NYO-2150-40)
electron spin resonance spectra of uv-irradiated single-crystal, doped with KSH and KSeH, (E/T), 22:41649(T) (NRC-TT-1311)
electron/positron backscattering from single crystals of, channeling and temperature effects on, 25:52916
epitaxial growth of fcc metals on ultrahigh vacuum-cleaved, role of surface defects in, 22:48196
equation-of-state calculations for, numerical problems with Grueneisen ratios in, 22:26453 (UCRL-70670(Rev.1))
F center bleaching in doped crystals, correlation with ionic conductivity, 24:19940
F' center ionization energy, 24:35528 (COO-1054-46)
F centers in crystals of, effects of external electric field on electron—nuclear double resonance of, (T), 24:49264
F centers in, optical bleaching of, (E), 24:35527(R) (COO-1052-12)
F-aggregate centers in, optical formation of, (E), 24:35527(R) (COO-1052-12)
F-center hyperfine interaction in, 24:32916 (ORNL-4526, pp 34-43)
F-center luminescence and conversion to F' centers, effects of spin polarization by magnetic field at 1.7°K on, 25:33436
gold nuclei condensation from atomic beam on crystals of, effects of radiation on, 25:29910
grain boundary migration in bicrystals of, 21:8232 (ANL-7232)
helium ion reactions with single crystals of, electron energy spectra from, 21:39801
helium-ion reactions at 100 to 600 eV with single-crystal, ion—electron emission coefficient in, 23:44159
hydrogen center superfine spectra in, effects of deuterium on, 23:40668
impurity location in crystals of, by axial channeling of helium ions and protons, 25:56337
intermolecular frequencies of water molecules in aqueous solutions of, slow neutron inelastic scattering measurements on, 23:6093(R) (NP-17690)
ion channeling in crystals of, computer simulation studies of chloride, potassium, and sodium, 22:37033
ion-induced electron emission from single crystals of, incident angle dependence of 70- to 700-eV helium and neon, (E), 22:50251
isotope mobility in molten, in electrolysis, 21:14301
krypton depth distribution in, after sputtering at low energies, 22:52893
krypton ion ranges in, measurement using sputtering technique, 22:26222
krypton ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
lattice site location of inert gas atoms in, proton and alpha particle channeling studies, (E), 21:16970
lithium ion (Li^+) defects in, dynamics and thermal properties of molecular models of, 22:5419 (NYO-2391-24)
luminescence induced by deformation of x-irradiated crystals of undoped and copper-doped, stress dependence of, 23:8679
luminescence induced by plastic deformation in gamma-irradiated crystals of, (E), 21:7345
luminescence spectra of, delayed, 24:35528 (COO-1054-46)
magnetic dipole moments for, molecular beam electric resonance measurements on, 21:29969(R) (UCRL-17299)
metabolism in strawberry plants, tracer study of, 21:41341
mixing with fused lithium chloride, heat of, 22:31502
neon-ion reactions at 100 to 600 eV with single-crystal, ion—electron emission coefficient in, 23:44159
neutron total cross section at 100 to 650 keV, optical model analysis of average, (E/T), 25:43908
neutron total cross section at 30 to 650 keV, average, (E) , 22:22560(R) (ORO-1067-2)
neutron total cross sections at 30 to 650 keV, (E), 22:20578 (WASH-1079)
nitrogen dioxide impurity EPR spectrum in x-irradiated, hindered rotation from, 25:59199 (NYO-2150-74)
optical bleaching and x irradiation of, ESR study of simultaneous, (E), 23:39553
oxygen molecular ion (O_2^-) ENDOR in, 22:50225 (UR-3388-10)
oxygen molecular-ion reorientation in paraelastic relaxation of lattice, ESR study of isotope effect in, 24:24170
paraelectric resonance of lithium-doped, effects of stress on, 25:54369 (NYO-2150-76)
paramagnetic resonance spectra of silver atoms stabilized by x irradiation in crystals of, (E), 23:7040
partition function ratio of isotopic, 21:1349
phase distribution of americium and plutonium with, as molten-salt electrolyte for electrorefining of plutonium, (E), 22:12986 (RFP-1065)
phase transformations in insulators of, detection by dielectric constant measurement of pressure-induced, 22:48985 (SC-DC-68-2410)
phonon resonance scattering from thermal conductivity measurements in lithium-doped crystals of, lithium-ion tunneling in, 23:27710
phonon resonant absorption in irradiated doped, 24:32762 (ORNL-4526, pp 76-83)
phonon resonant absorption in lithium-6- and cyanide-doped, 23:30612(R) (ORNL-4408)
phonon scattering in lithium-doped, using heat pulses and microwave phonon generation, resonant, 25:28863 (NYO-2391-111)
photochemical transformations of radiophosphorus in 5-MeV proton-irradiated, 21:31482
photoeffect quantum yields from, (E), 22:38799
photoelectric mechanism in crystals of, 21:29368
photon—electron transformation in thin crystals of, 24:28430
positron annihilation at F centers in, angular correlation of, (T), 25:38590
positron backscattering by single crystals of, effects of channeling on, (E), 25:7137
positron lifetime in F centers of, 24:45011
potassium ion reactions with, temperature dependence of electron emission from, (E), 21:37597
production of high-purity, 22:14482 (ORNL-4196, pp 90)
production of, economics of dual purpose reactors for, 25:54244
properties for use as standard in activation analysis for chlorine, 23:45227
properties of uranium-doped crystals of, optical and electrical, 24:3449
proton channeling at 1.5 MeV in crystals of, effects of surface and imperfections on, (E/T), 25:43461
proton channeling at 1.5 MeV in single crystals of, 24:21877
proton channeling at 75 keV in, characteristic x-ray production study of, 24:35536
proton channeling in [100] planes of single-crystal, at 4.7 and 6.72 MeV, 23:20992
proton channeling in monocrystals of, energy distributions of, 25:7464
proton channeling in, at 6.72 MeV, 23:7053
proton reactions at 350 keV with, characteristic x-ray spectra from, (E), 25:2882 (CONF-700322-, pp 113-24)
proton scattering below 100 keV by single crystal surface of, computer simulation of, 23:41917
purification of potassium-42-labeled, by ion exchange, 25:11046
radiation damage in crystals of, fission-fragment, 21:46414
radiation damage in, dynamics of, (T), 21:37578
radiation effects on 0.4-4°K thermal conductivity of crystals of, evidence for colloid formation in gamma, 22:44207 (COO-1629-8)
radiation effects on chemical states of radioactive phosphorus in, 660-MeV proton, 21:24036
radiation effects on color centers in crystals of, neutron, (T), 22:9440
radiation effects on color centers in single crystals of, x, 23:42447
radiation effects on color centers of iodine- and iodine—lead-activated, x, 22:36964 (AD-665980)
radiation effects on conductivity of, gamma and neutron, 21:42200
radiation effects on crystal growth rate of, role of lead ions, temperature, and saturation on γ, 21:8358
radiation effects on crystals of, electron microscope studies of macrodefects from, 21:25209
radiation effects on crystals of, role of recoil phosphorus in proton, 24:13889
radiation effects on crystals, anomalous F-coloring in interruptions of irradiation, (E), 24:42763
radiation effects on cyanide-doped crystal of, ESR spectra of H_2CN radical from γ, 23:47469
radiation effects on cyanide-doped, ESR study of $(CN)_2^-$ radical from γ, 22:12369
radiation effects on delayed luminescence under F bleaching, x, 23:40679 (COO-1054-43)
radiation effects on diffusion of chlorine ions in crystals of, electron, (E), 25:25209
radiation effects on dislocation density and hardness of crystalline, ionizing, 22:34094
radiation effects on dislocation mobility of single crystals of, γ, 24:32907
radiation effects on electric conductivity of, gamma and x, (E), 22:34748
radiation effects on fracture surface energy of crystals of, gamma, 22:20038(R) (COO-1052-9)
radiation effects on fracture surface energy of single crystals of, γ and x, 22:33431
radiation effects on fracture surface energy of, correlation with F-center density, gamma and x, 21:23245(R) (COO-1052-7)
radiation effects on late-stage coloration in very pure crystals of, x, 23:46550
radiation effects on lattice parameter at 8°K, annealing of x, (E), 21:44183
radiation effects on lattice parameter of single crystals of, annealing of 8°K x-, 25:40782
radiation effects on lead-doped crystals of, absorption spectra—ionic thermocurrent study of 1.5-MeV electron, 25:36303
radiation effects on low-temperature thermal conductivity of crystals of, gamma, 23:18719 (COO-1629-11)
radiation effects on mechanical and physical properties of, neutron, 23:3586
radiation effects on microhardness of whisker crystals of, x, (E), 22:46241
radiation effects on microhardness of, relations of microhardness with neutron, 25:27222
radiation effects on monocrystals of, effects of photo and thermal annealing on reactions of recoil phosphorus-32 from, 25:39558
radiation effects on monocrystals of, effects of sulfide ions on chemical states of recoil phosphorus from proton, 24:13890

radiation effects on monocrystals of, reactions of recoil phosphorus in proton, 24:13888
radiation effects on monocrystals of, reactions of recoil phosphorus-32 in proton, 24:13900
radiation effects on optical and electric properties of manganese-doped crystals of, x-, 25:7444
radiation effects on point-defect coagulates in, 100-keV-electron, (E), 23:44497
radiation effects on potassium hydroxide-doped, chemical states of recoil phosphorus-32 and sulfur-35 from neutron, 24:16571
radiation effects on range of leading dislocations of etch-figure stars in crystals of, neutron, 24:6628
radiation effects on scanning-electron-microscopic channeling patterns from single crystals of, 25:45550
radiation effects on self-friction of, x, 21:3930
radiation effects on single crystals of, chemical states of phosphorus-32 from, 24:18992
radiation effects on single crystals of, photostimulated exoemission of electrons excited by electron, (E), 22:41655
radiation effects on single crystals of, plastic deformation induced by x and gamma, (E/T), 23:51787
radiation effects on sliding and static friction of, x, 21:18835
radiation effects on stored energy in crystals of, kinetics of proton, (E), 21:21076
radiation effects on surface of massive and needle-shaped crystals of, x, 23:37987
radiation effects on thallium-204-labeled, chemical state of thallium in γ, 23:9446
radiation effects on thermal conductivity of crystals of, γ, (E/T), 25:52904
radiation effects on thermal conductivity of single-crystal, at 0.4 to 4.0°K, gamma, (E), 22:20040(R) (COO-1629-3)
radiation effects on thermoluminescence and optical absorption spectra of, gamma and neutron, 21:42202
radiation effects on U_3 centers in hydrogen-activated, EPR spectral studies on, 21:1391
radiation effects on, at 20°K, x, (E), 22:13605
radiation effects on, chemical state of sulfur-35 from neutron, 22:45105
radiation effects on, chemical states and photoannealing of recoil phosphorus-32 from neutron, 24:41332
radiation effects on, chemical states of recoil sulfur-35 from neutron, 25:13065
radiation effects on, ESR study of simultaneous optical bleaching and x-, (E), 23:39553
radiation effects on, production of sulfur-35 in neutron, 22:35874
radiation effects on, reactions of recoil sulfur-35 from neutron, 25:8312
radiation effects on, spatial distributions in γ, 23:42393(R) (COO-1807-1)
radiation effects on, thermoluminescence induced by deformation and light after 2-MeV-electron, 25:56321
radioinduced activator centers in europium-activated crystals of, structure of x, 22:9442
radioinduced activator color centers in silver-doped phosphors of, electron and x-, 25:40791
radioinduced aquoluminescence of, mechanism of γ, 25:4076
radioinduced B centers in silver-doped crystals of, formation mechanism of x-, (E), 24:30391
radioinduced $BrCl^-$ molecule-ion center in bromide-doped single crystals of, properties of gamma and x, 25:19852
radioinduced cation vacancies in single crystals of, electric conductivity study of x, (E), 25:19858
radioinduced Cl_2^- centers in activated crystals of, EPR studies of x, 21:29375
radioinduced colloidal centers in activated crystals of, spectra of, 24:45326
radioinduced colloids in crystals of, reactor, 25:14429
radioinduced color center formation at 15°K in crystals of, role of excitons in electron-pulse, (E), 25:17287
radioinduced color center formation in, x, (E/T), 22:48192
radioinduced color centers and thermoluminescence in crystals of, gamma and x, (E), 22:34748
radioinduced color centers in calcium-doped crystals of, thermoluminescence—spectral study of Z_1 centers induced by optical bleaching in x, 23:7039
radioinduced color centers in crystal of, optical study of pulsed electron-beam, 24:19969
radioinduced color centers in crystal surfaces of, low-energy electron, 25:33427
radioinduced color centers in crystals doped with alkaline earths, proton, 21:27238
radioinduced color centers in crystals of pure and thallium-doped, 21°C γ-, 25:5157
radioinduced color centers in crystals of sodium-doped, mechanism of formation of ultrasoft x-, 25:30654
radioinduced color centers in crystals of, 4°K pulsed electron-beam, 24:19971
radioinduced color centers in crystals of, absorption spectra and growth of reactor, 24:26301
radioinduced color centers in crystals of, chemical method for studying, 22:34770
radioinduced color centers in crystals of, effects of temperature and simultaneous exposure to light on production of x, (E), 22:13551
radioinduced color centers in crystals of, effects of deformation on production of, (E), 21:16979
radioinduced color centers in crystals of, F-to-M conversion and equilibrium in x, 24:47311
radioinduced color centers in crystals of, impact luminescence from x-, 25:45559
radioinduced color centers in crystals of, kinetics and image-recording uses of 5-keV electron, 24:35533
radioinduced color centers in doped crystals of, coalescence of F, 21:31483
radioinduced color centers in manganese-doped, spectra of x, 21:28857
radioinduced color centers in pellets of, as function of time between pressing and irradiation, gamma, (E), 21:9658
radioinduced color centers in pure and calcium-doped crystals of, effects of deformation on gamma, (E), 22:17825
radioinduced color centers in pure and doped crystals of, role of motion of holes, anion vacancies, and excitations in x, 25:9553
radioinduced color centers in silver- and thallium-activated crystals of, effects of anion and cation vacancies on formation of, (E), 21:13640
radioinduced color centers in thallium-activated, Coulomb interaction with electrons and holes, 24:45327
radioinduced color centers in, (E), 21:37581
radioinduced color centers in, correlation of electron-spin-resonance and optical absorptions of, 21:16982
radioinduced color centers in, decay and optical pumping of metastable M and R, gamma and x, 21:23245(R) (COO-1052-7)
radioinduced color centers in, effects of deformation-induced electric field on photoconductivity of x-, (E/T), 24:32901
radioinduced color centers in, effects of light pulses on, 21:23245(R) (COO-1052-7)
radioinduced color centers in, ESR studies on, 21:21060
radioinduced color centers in, exponential components of first stage of, (T), 23:25447
radioinduced color centers in, fast optical study of pulsed-electron, 21:3556(R) (AD-641725)
radioinduced color centers in, gamma and neutron, 21:42198
radioinduced color centers in, light absorption by, 21:33542
radioinduced color centers in, properties of V, x, (E), 21:7344
radioinduced color centers in, relations with photomobility of dislocations from gamma, 22:49864
radioinduced color centers in, Stark effect in x-, 22:22199 (COO-1105-128)
radioinduced color centers in, temperature effects on production of, 21:7348
radioinduced color centers in, thermal bleaching of, x, (E), 21:13628
radioinduced coloration of crystals of, effects of impurities on γ, 23:46551
radioinduced coloration of, containing calcium ion impurities, x, (E), 22:41659
radioinduced defect production and annihilation in, gamma, 22:9466
radioinduced defects and color loss at 50°C, neutron, (E), 23:39537
radioinduced defects in, 22:5420(R) (NYO-3842-1)
radioinduced defects in crystals of, activation energy of stored energy release in annealing of 4.5-MeV proton, 25:45562
radioinduced defects in crystals of, comparison with magnesium oxides, electron, (E), 22:31938 (BNL-50083, pp 410-19)
radioinduced defects in crystals of, evidence for Frenkel, x, (E), 22:37045
radioinduced defects in crystals of, production and annealing of x, (E/T), 23:51786
radioinduced defects in crystals of, relation to luminescence induced by deformation and light in gamma-irradiated, 21:40111
radioinduced defects in crystals of, volume change from low-energy x-, (E), 24:30395
radioinduced defects in pure and impure crystals of, absorption spectral study of annealing of pile-neutron, (E/T), 24:30396
radioinduced defects in pure single crystals of, thermal conductivity studies of gamma, 23:23240(R) (COO-1629-13)
radioinduced defects in single crystals of, density measurements of impurity effects on accumulation rate of gamma, (E), 23:3578
radioinduced defects in single crystals of, mechanism of thermal annealing of, x, (E), 22:34795
radioinduced defects in single crystals of, structure of γ, (E), 24:35532
radioinduced defects in whisker crystals of, effects of surface-to-volume ratio on production of x, (E), 22:46241
radioinduced defects in, effects of electron-trapping impurities on creation and infrared bleaching of electron, 21:46424
radioinduced defects in, effects on dislocation mobility in, 21:11712
radioinduced defects in, mechanism of temperature dependence of production of x-, 25:22604
radioinduced defects in, optical measurements of x, 23:32562
radioinduced defects in, phonon scattering by F-complement, 21:42188
radioinduced defects in, properties of, 21:13646
radioinduced defects in, slow electron, (T), 22:22240
radioinduced defects in, thermal annealing of x, (E), 21:21082
radioinduced defects in, thermal stability and properties of x-, 23:14875
radioinduced defects stable at room temperature in calcium-containing, model for x, 21:46421
radioinduced electron and hole processes in silver-activated crystals of, EPR studies of, 21:29376
radioinduced electron centers in crystals of, containing lead and manganese, mechanism of proton and x, 23:44509
radioinduced energy storage in crystals of, luminescence from aqueous release of γ, irradiated crystals of, 25:2227
radioinduced exoelectron emission from thin film, x-, 24:45324
radioinduced expansion at 20°K of single-crystal, x-radiation, 23:24968
radioinduced F center growth at 85°K in, absorption measurements during irradiation of gamma, 25:38574
radioinduced F center in silver-doped, lifetime of excited states of, 21:15234
radioinduced F center production in, at 125 to 300°K, electron, (E), 23:42396
radioinduced F centers and luminescence in crystals of, 77°K pulsed electron-beam, 24:19970
radioinduced F centers and thermoluminescence in additively colored single crystals of, x-, (E), 24:42758
radioinduced F centers at 78°K, effects of energy below and above K edge on formation of x-, (E), 24:42761
radioinduced F centers in crystals of hydrogenated, exciton mechanism for x-, (E), 24:8533
radioinduced F centers in crystals of pure and doped, first-stage growth of room-temperature x-, 25:5159
radioinduced F centers in crystals of, comparison of dielectric losses with thermal bleaching of x, 23:5455
radioinduced F centers in crystals of, effects of light bleaching on x, 21:18796 (COO-525-23)
radioinduced F centers in crystals of, effects of dopants on growth curves of x-, (E), 25:43450
radioinduced F centers in crystals of, formation and decay of pulsed-electron, 23:25465
radioinduced F centers in crystals of, growth and decay of gamma, 24:10604
radioinduced F centers in crystals of, saturation of electron-, 25:14415
radioinduced F centers in crystals, simultaneous production and bleaching of x, (E), 22:11559
radioinduced F centers in europium-activated crystals of, effects of temperature on x, 23:44522
radioinduced F centers in fiber crystals of, kinetics of accumulation of x, (E), 22:41684
radioinduced F centers in pure and doped crystals of, effects of hole migration on x-, (E), 24:19941
radioinduced F centers in single crystals of, channeling effect in electron, 24:18023
radioinduced F centers in single crystals of, electron range and nonuniform coloration in electron, (E/T), 24:42764
radioinduced F centers in single crystals of, saturation of electron, 23:44534
radioinduced F centers in thallium-activated, energy transfer from, (E), 21:23263
radioinduced F centers in, bleaching and formation energy of electron, 25:40767 (AD-715305)
radioinduced F centers in, effects of electric field and temperature on radiative lifetime of excited, 25:27841 (NYO-3463-23)
radioinduced F centers in, energy required for x, (E), 22:5421 (PRNC-106)
radioinduced F centers in, interstitial-trapping model of, 23:30612(R) (ORNL-4408)
radioinduced F color centers in single crystals of, 5-keV electron, 23:23286
radioinduced F flash and luminescence in activated phosphors of, temperature dependences of, 21:29370
radioinduced F, B, and E color centers in pure and silver-doped crystals of, creation kinetics of x, 23:30627
radioinduced F_1 centers in crystals of, optimum temperatures for buildup of proton, 23:51755
radioinduced F-center growth in highly pure, effects of plastic deformation on x-, (E/T), 24:28404
radioinduced F-center luminescence in, temperature dependence of decay time and quantum efficiency of, x-, (E), 23:39547
radioinduced FCl^- molecular-ions in fluoride-doped crystals of, infrared absorption spectra of gamma, 24:18021
radioinduced formation of phosphorus-32 in, effects of thermal annealing on valence distribution in neutron, 22:18831
radioinduced formation of phosphorus-32 in, valence distribution in neutron, 22:18830
radioinduced Frenkel defects in low-temperature, x-, 22:31981
radioinduced Frenkel defects in, ESR observation of electron-hole recombination mechanism of, 24:6618
radioinduced Frenkel defects in, production and thermal annealing of x, (E), 22:13594
radioinduced hardening of crystals of, effects of strontium ions on x-, 25:52924
radioinduced hardening of crystals of, gamma and x-,, 24:45329
radioinduced hole centers in iodide-containing, crystals of ESR and optical studies of ICl^- V/sub K/, x, 22:44230
radioinduced interstitial centers in, x, 23:42421
radioinduced interstitials in pure and lead-doped, effects on M-center annihilation, 25:33402(R) (ORNL-4669)
radioinduced ionization of M/sub A/(Na) center in, x and uv, 25:49982
radioinduced luminescence and F-center bleaching in, electron, 21:37580
radioinduced luminescence and photoluminescence in europium-activated crystals of, mechanism of x, 22:9441
radioinduced luminescence in copper- and silver-activated crystals of, mechanism of x, (E), 21:21064
radioinduced luminescence in copper- and silver-activated crystals of, x, (E), 21:21065
radioinduced luminescence in europium-activated, electron-capture levels from x-, (E), 25:52923
radioinduced luminescence of activated crystals of, effects of storage on, 21:29374
radioinduced luminescence of europium-activated crystals of, mechanism of high-temperature β, 24:51810
radioinduced luminescence of indium- and thallium-activated, effects of temperature on, (E), 21:11717
radioinduced luminescence of indium- and thallium-activated, electron—hole component of, 21:21061
radioinduced luminescence of phosphorus-activated crystals of, 21:29373
radioinduced luminescence of thallium-activated crystals of, x, 21:29379

radioinduced M and F centers in crystals of, laser re-excitation and decay of γ, (E/T), 25:11956
radioinduced M and N centers in, Stark effect on x, (E), 24:42750 (COO-1105-158)
radioinduced metastable color centers in, effects of light on, (E), 21:11706
radioinduced reduction of cadmium ions in crystals of, magneto-optical study of x-,, 25:56320
radioinduced reduction of samarium ions in crystals of, gamma, (E), 21:2327
radioinduced scintillations in thallium-activated, temperature dependence of relative quantum efficiency of F- and Tl^{0}-, 22:34769
radioinduced stabilization of copper atoms in crystals of, EPR study of x, (E), 22:22219
radioinduced surface dissociation of, by low-energy electron bombardment, (E), 23:7062
radioinduced thallium-ion centers in thallium-doped crystals of, ESR studies of x, 21:29342
radioinduced thermoluminescence at 30 to 400°C of thallium-doped, gamma, 24:32900
radioinduced thermoluminescence of calcium-doped monocrystals of, x-, 25:448
radioinduced thermoluminescence of silver-activated, x, 21:2301
radioinduced trapped hydrogen atoms resembling U_1 centers in single-crystal, ESR studies of proton, 24:47308
radioinduced uv absorption bands in, studies of electron, 23:3596
radioinduced V and F centers at 295°K, optical growth of electron, 23:23285
radioinduced V bands in calcium-doped crystals of, effects of aggregation processes on x-, (E/T), 25:3198
radioinduced V centers in single crystals of, effects of plastic deformation on 2-MeV electron, 25:52911
radioinduced V centers in single crystals of, temperature dependence of production of x, (E), 25:19855
radioinduced V_1 color center in sodium-doped crystals of, EPR study of structure of x- or electron-, 24:10603
radioinduced V_1 band in, relation with F band up to saturation in electron, 24:32908
radioinduced V/sub K/ centers in silver-doped crystals of, Raman spectra of x, (E/T), 24:26310
radioinduced vacancies in pure and doped at 4.2 deg K, x, 21:5329
radioinduced vacancy centers in crystals of, at liquid helium and nitrogen temperatures, x, 21:29365
radioinduced volume expansion of, low temperature x-, 22:22236
radioinduced Z_1 centers in strontium-doped, x-, (E), 23:51788
radiolysis of crystals of, cell design for studying transients in, 21:45145 (ORNL-4164, pp 35-45)
radiolysis of frozen aqueous solutions of, ESR study of hydrogen atoms and hydroxyl radicals from, 25:57467
radiolysis of oxygen-doped single crystals, spectra and annealing of x, 25:33422
radiolysis of potassium cyanide-doped, ESR spectra of FCN^- and HCN^- from x, 25:26289 (NYO-2150-60)
radiolysis of, effects of conditions of irradiation on distribution of phosphorus-32 and sulfur-35 atoms in neutron, 21:4562
radiolysis of, yields from gamma, 21:24039
radioprotective effects of, against depilation in mice, x, 24:32044
radioprotective effects of, on spores of Aspergillus niger, uv, 23:31998
reactions of aqueous solutions of, with alumina—chromia catalysts, 22:4066(R) (COO-1354-13)
reactions with manganese-56 recoil atoms, oxidation states for, 24:48118
reactions with thorium at 800 to 970°C, equilibrium constant and thermodynamics of, 22:35781
reactions with uranium oxides UO_3 and U_3O_8, properties of diuranates from, 22:40089
recombination luminescence mechanism in europium-doped crystals of, 25:7459
response of porous transmission photomultiplier dynodes of, to single electrons, 21:16233
scattering of molecular beams of, by hydrobromic acid and iodomethane, (E), 21:3682
scattering of molecular beams of, by hydrogen bromide, iodomethane, krypton, and xenon, velocity dependence of total cross sections for, (E), 22:11235
separation of boron from, 22:33208(R) (MLM-1456)
separation of sulfur-35-labeled compounds in neutron-irradiated, by anion exchange chromatography, 24:277
shear properties of single crystals of, effect of neutron or gamma irradiation on, (E), 22:46205
shear stress of crystals of, effects of strontium ion content on critical resolved, 25:52925
solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
solvent properties for uranium mononitride, 23:2260 (ZFK-124)
sorptive properties for element 104 chloride, 24:36225
sorptive properties for gaseous element 104 chlorides, 25:20970
sound attenuation in pure and lithium-containing, ultrasonic, 22:13534 (NYO-2471-31)
spectra at 80°K on thin films of, Cl^- $L_{2,3}$ absorption, (E), 22:46228
spectra of aqueous solutions of, using coaxial cells, NMR, 21:35920(R) (ORO-2069-64)
spectra of calcium-doped, color centers in, 23:7500(R) (COO-1197-37)
spectra of molten, neutron scattering studies on, 23:40534 (BNL-50149, pp 26-39)
spectra of strontium-doped, color centers in, 23:7500(R) (COO-1197-37)
spectra of, effects of heavy water as solvent on far-infrared, 22:16520
spectra of, molecular-beam electric-resonance, 21:15882 (UCRL-17019)
spectra of, production and measurement of F' band in, 21:44153 (IS-T-179)
spectra of, second-order effects in ENDOR, 23:8693
structure of molten, viscosity measurements on, 21:23861(R) (ORO-2073-12)
sulfur-35 production from neutron-irradiated, 21:38961 (JAERI-4041)
superconductivity of films evaporated jointly wth beryllium, (E/T), 25:40550
temperature dependence of the brightness of x-ray luminescence and optical flash in activated phosphors of, (E), 22:3188
thermal capacity of aqueous solutions of, at 5 to 85°C, 21:40814 (COO-504-11)
thermal conductivity of, phonon point defect, optic mode and critical scattering effects on, 21:7338
thermodynamic properties of, in aqueous and nonaqueous solutions at 25°C, 21:25822(R) (TID-22366)
thermodynamics of transfer of, from light to heavy water, emf studies on, 21:10361
transitions in, Stark effect of multiphonon R_2, 24:41103 (NYO-2150-58)
use for determining beam orbits in microtrons, 23:10902
use for elimination of isotopes from rabbits, 23:22181(T) (AEC-tr-6944, pp 651-6)
use of films of, for detection of relativistic particles, 22:40361(T) (SLAC-Trans-84)
vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
vapor pressure of saturated solutions of, in water and heavy water, 23:35086
vapor pressure of, development of isopiestic apparatus for measuring, 22:23003 (IA-1128, pp 97-146)
vaporization in rarefied gas flow, effects of vapor saturation on, 24:36107 (COO-1140-185)
vaporization of, mass spectrometric studies on kinetics of high-temperature, 24:9271(R) (COO-1140-182)
viscosity of aqueous solutions of, effects of deuterium on, 24:41279
viscosity of aqueous solutions of, effects of deuterium on, 23:40652
x-ray absorption spectrum at 50 to 62 A, (E), 21:33963(R) (NP-16498)
x-ray diffuse scattering in, effects of defects and irradiation on longitudinal and transverse, 25:33410
x-ray temperature factors for single crystals of, using nuclear resonant radiation for determination of, 21:11419
xenon ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
yields in gamma-radioinduced decomposition of crystalline potassium chlorate, 22:10278
AgCl—KCl, thermodynamic property calculations from phase diagram, 21:8234 (IS-T-123)
AgCl—KCl—LiCl, corrosive effects on silver, 24:11502 (CEA-N-1148, pp 125-32)
AgCl—KCl—LiCl, corrosive effects on silver, 24:23427(T) (ANL-Trans-798)
$AlCl_3$—KCl, decomposition voltage of molten, 22:1939(T) (AI-Trans-257)
$AlCl_3$—KCl, density of molten, 22:1939(T) (AI-Trans-257)
$AlCl_3$—KCl, effects of molten, on absorption spectra of trivalent uranium, 23:47446
$AlCl_3$—KCl, electric conductivity at high temperatures, 24:3003 (ORNL-4470, pp 34-42)
$AlCl_3$—KCl, electric conductivity of, 23:21677 (AI-AEC-12744, pp 153-7)
$AlCl_3$—KCl, electric conductivity of, 23:11479 (AI-AEC-12721, pp 313-22)
$AlCl_3$—KCl, electric conductivity of molten mixtures of, 25:2805 (ORNL-4570, pp 31-4)
$AlCl_3$—KCl, electric conductivity of phases in, 23:8323 (ORNL-4370, pp 39-44)
$AlCl_3$—KCl—NaCl—$NbCl_5$, phase diagrams of, 22:12307
$AlCl_3$—KCl—NaCl—$TaCl_5$, phase diagrams of, 22:12307
B_2O_3—KCl—K_2O, radioinduced hole-type center in glass of, Raman spectrum of gamma, 24:8528
B_2O_3—KCl—K_2O, radioinduced hole-type center in glass of, optical absorption spectra of gamma, 24:10600
$BaCl_2$—KCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
$BeCl_2$—KCl, freezing points of molten, 23:26237
$BeCl_2$—KCl—NaCl, freezing points of molten, 23:26237
$BiCl_3$—KCl, analysis for bismuth chloride by nuclear quadrupole resonance spectrometry, 23:19660
$CaCl_2$—KCl, ionic mobilities and transference numbers in fused, 21:35701(R) (BNL-50023)
$CaCl_2$—KCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
$CaCl_2$—KCl, radiation effects on chemical states of radioactive phosphorus in, 660-MeV proton, 21:24036
$CaCl_2$—KCl—$MgCl_2$—$PuCl_3$—UCl_3, properties as breeder fuel, 22:4130
CaO—KCl—LiCl, properties as sensor in electrochemical determination of hydrogen, 23:40538(R) (PB-183567)
$CdBr_2$—KCl, density at 435 to 863°C, 21:23861(R) (ORO-2073-12)
$CdBr_2$—KCl, structure of molten, surface tension measurements on, 21:23861(R) (ORO-2073-12)
$CdCl_2$—KCl, complexing in molten systems of, calorimetric studies on, 21:45088 (ORNL-4164, pp 95-100)
$CdCl_2$—KCl, structure of molten, viscosity measurements on, 21:23861(R) (ORO-2073-12)
$CeCl_3$—KCl, thermodynamic properties at 825°C, 22:37707 (BNL-50082, pp 27-39)
CsCl—KCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
CsCl—KCl, radiation effects on, oxidation states of recoil radioiodine from proton, 22:25389
CuCl—KCl, solvent properties of molten, for uranium, plutonium, americium, and curium, 22:4255
$ErCl_3$—KCl, phase studies on compounds formed in, 21:69
H_2O—KCl—NaCl, activity coefficients in, 23:103 (ORNL-4306, pp 73-105)
H_2SO_4—KCl, corrosive effects of aqueous, on stainless steel, 24:12353(R) (COO-1319-79)
HCl—KCl, effects on electrochemical behavior of molybdenum, 25:16513
HCl—KCl, effects on hydrolysis of americium, curium, and rare earths, 23:40610 (CEA-N-1044, pp 331-80)
HCl—KCl, thermodynamic properties of aqueous, from electromotive force measurements at 25 to 175°C, 23:103 (ORNL-4306, pp 73-105)
$HoCl_3$—KCl, phase studies on compounds formed in, 21:69
KBr—KCl, heat of formation of solid solutions of, effects of composition on, (E), 21:21079
KBr—KCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KBr—KCl, radiation effects on mixed crystals of, reactions of recoil sulfur-35 in neutron, 24:11617
KBr—KCl, radiation effects on stored energy of solid solutions of, proton, (E), 21:21079
KBr—KCl, radiation effects on thermal expansion coefficient of solid solutions of, gamma, 25:40770
KBr—KCl, radioinduced color center stability in mixed crystals of, proton, 23:1550
KBr—KCl, radioinduced F centers in mixed crystals of, efficiency of 5°K electron, 23:25457
KCl—K_2NbF_7—NaCl, phase studies of liquid, 23:14362
KCl—K_2ZrF_6, reactions of melts of, with zirconium at 800°C, 24:51142
KCl—$KCrO_4$, reactions of solid solutions of, with recoil chromium-51, chemical effects in, 25:29166
KCl—KF, separation of boron from, 22:25440(R) (MLM-1443)
KCl—KF, separation of boron from, method for, 22:1956(R) (MLM-1405)
KCl—KF—K_2NbF_7—Nb_2O_5, electrolysis of molten, electrowinning of niobium by, 22:19492
KCl—KNO_3, molal volume and refractive index of aqueous solutions of, 22:23003 (IA-1128, pp 97-146)
KCl—LaOCl, phase studies on, 22:33353
KCl—LiCl, analysis of molten eutectic of, for uranium(III), (IV), and (VI) and neptunium(IV), chronopotentiometric, 23:49723
KCl—LiCl, capacitance measurements on, development of dropping bismuth and lead electrodes for, 23:40534 (BNL-50149, pp 26-39)
KCl—LiCl, capacity measurements on, development of dropping bismuth electrode for, 22:37707 (BNL-50082, pp 27-39)
KCl—LiCl, chlorination of, uranium tetrachloride in fused eutectic, kinetics of, 21:10344
KCl—LiCl, corrosive effects on Zircaloy-2 and Zircaloy-4 at 350°C, 25:24532 (AECL-3799)
KCl—LiCl, diffusion of tetravalent plutonium in, chronopotentiometric study at 400 to 650°C of, 24:36259
KCl—LiCl, diffusion of uranium oxychloride or uranium tetrachloride in fused, uranium-233 tracer studies on, 24:46217
KCl—LiCl, effects of molten eutectic of, on polarographic behavior of rare earth and yttrium chlorides, 22:27690
KCl—LiCl, effects of molten, on electrochemical reactions of neptunyl ions, 24:4293
KCl—LiCl, effects on redox potential of U(IV)/U(III), 21:21941
KCl—LiCl, electrochemical behavior of ytterbium(II) in molten, at platinum electrode, 23:33188
KCl—LiCl, electrochemistry of uranium in, chronopotentiometric study on, 21:21942
KCl—LiCl, electrochemistry of uranium in, kinetics of, 21:21943
KCl—LiCl, electrolysis of thorium carbide in, 23:28950 (IS-T-300)
KCl—LiCl, equilibrium potentials of molybdenum in fused eutectic of, electrochemistry studies on, 21:40841
KCl—LiCl, ion exchange between Pyrex glass and eutectic of, 25:6840 (CEA-N-1341, pp 123-8)
KCl—LiCl, ion exchange between Pyrex glass and eutectic of, 25:49370(T) (ANL-Trans-888)
KCl—LiCl, lithium-6 concentration by electromigration in molten, 24:46330
KCl—LiCl, neptunium ion oxidation in molten, chronopotentiometric studies on, 23:37956
KCl—LiCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KCl—LiCl, performance as bath for separation of plutonium dioxide from uranium dioxide, 22:30669
KCl—LiCl, performance of eutectic, in scrubbing process for purification of tungsten hexachloride, 22:4749 (BM-RI-6984)
KCl—LiCl, plutonium oxidation in molten, chronopotentiometric study of, 25:57420
KCl—LiCl, properties of fused, for use in fuel reprocessing, 21:10428
KCl—LiCl, purification of molten, by column crystallization and zone melting, 22:16670
KCl—LiCl, reactions of molten, with plutonium dioxide at 800°C, 22:25442 (ANL-7375, pp 19-45)
KCl—LiCl, reactions of molten, with uranyl chloride in electrolytic cell, 24:50378
KCl—LiCl, reactions with uranium oxides, effects of magnesium fluoride on, 21:45191 (ANL-7325, pp 19-49)
KCl—LiCl, separation from low concentrations of fission products and uranium chlorides by column crystallization and zone melting, 23:16522
KCl—LiCl, separations in, comparison of column crystallization and zone melting methods for, 21:24065 (KFK-502)
KCl—LiCl, solvent properties for chlorine, 23:94 (BNL-12810)
KCl—LiCl, solvent properties for chlorine, effects of temperature on, 22:37707 (BNL-50082, pp 27-39)
KCl—LiCl, solvent properties of molten, for chlorine, 23:40534 (BNL-50149, pp 26-39)

KCl—LiCl, thermodynamic property calculations from phase diagram, 21:8234 (IS-T-123)
KCl—LiCl, uranium electrochemistry in molten, 21:27981
KCl—LiCl, uranium trichloride thermochemical activity in eutectic melt of, 21:38931(T) (LA-tr-67-76)
KCl—LiCl—UCl$_3$, effects on electrochemical dissolution of uranium alloys with molybdenum, niobium, and zirconium, effects of carbon and nitrogen impurities on, 23:33176
KCl—LiCl—UCl$_3$, phase studies of, to locate high-uranium low-freezing compositions, 21:5840 (LA-3579)
KCl—LiCl—UCl$_3$, use in separation of uranium from molybdenum, niobium, and zirconium by electrolysis, 22:25454 (CEA-N-616, pp 246-94)
KCl—LiCl—Zn, reactions with uranium carbide at 500 to 800°C, 23:962 (IS-1900, Paper 5)
KCl—LiCl—ZnCl$_2$, reactions with thorium carbide at 535°C, 24:17191 (IS-2100, Sect. M)
KCl—LiCl—ZrCl$_4$, solvent properties for thorium dioxide at 560 to 630°C, 25:16398 (IS-2300, pp 101-86)
KCl—LiF, phase diagram calculation for reciprocal system, 22:52556 (ANL-7425, pp 172-89)
KCl—MgCl$_2$, complexing in molten systems of, calorimetric studies on, 21:45088 (ORNL-4164, pp 95-100)
KCl—MgCl$_2$, ionic mobilities and transference numbers in fused, 21:35701(R) (BNL-50023)
KCl—MgCl$_2$, Raman spectra at 550°C, (E), 23:27409 (ANL-7550, pp 74-92)
KCl—MgCl$_2$, Raman spectrum of fused, 22:36774 (ANL-7450, pp 90-104)
KCl—MgCl$_2$, spectrum at 550°C, resolution of Raman, 24:1309 (ANL-7575, pp 136-69)
KCl—MgCl$_2$—MgF$_2$—NaCl, phase disengagement studies on entrainment of metals in, 22:22653(R) (ANL-7419)
KCl—MgCl$_2$—NaCl, analytical use in liquid metal-molten salt transport process for reactor fuel separations, 21:4590 (ANL-7125, pp 21-60)
KCl—MgCl$_2$—NaCl, cerium distribution between magnesium—zinc alloy and, effects of temperature on, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, containment of copper—magnesium in, by silicon carbide, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, corrosive effects of, in mixture with copper—magnesium—uranium on molybdenum, niobium, and TZM alloy, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, corrosive effects of, in system with copper—magnesium—uranium on vitreous carbon crucibles at 700°C, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, corrosive effects on salt pump loop for use in pyrochemical process, 21:45191 (ANL-7325, pp 19-49)
KCl—MgCl$_2$—NaCl, effects on cerium transport from copper—magnesium alloy to magnesium—zinc alloy, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, effects on corrosive effects of liquid copper—magnesium—uranium alloy on Croloy, iron, molybdenum and TZM alloy, 21:45191 (ANL-7325, pp 19-49)
KCl—MgCl$_2$—NaCl, effects on corrosive effects of liquid magnesium—uranium—zinc alloy on molybdenum at 700°C, 21:45191 (ANL-7325, pp 19-49)
KCl—MgCl$_2$—NaCl, neptunium distribution between copper—magnesium alloys and, effects of temperature on, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, phase disengagement studies on entrainment of metals in, 22:22653(R) (ANL-7419)
KCl—MgCl$_2$—NaCl, plutonium distribution between copper—magnesium alloy or magnesium—zinc alloy and, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, purification of molten, using cadmium—magnesium alloys, method for, 24:9417 (ANL-7603)
KCl—MgCl$_2$—NaCl, radiolysis of, γ, 24:50439(R) (ANL-7675)
KCl—MgCl$_2$—NaCl, Raman spectrum of uranyl chloride in, at 600°C, (E), 23:27409 (ANL-7550, pp 74-92)
KCl—MgCl$_2$—NaCl, reactions of molten, with plutonium dioxide at 800°C, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—NaCl, reactions with uranium oxides, effects of magnesium fluoride on, 21:45191 (ANL-7325, pp 19-49)
KCl—MgCl$_2$—NaCl, separations in, comparison of column crystallization and zone melting methods for, 21:24065 (KFK-502)
KCl—MgCl$_2$—NaCl, solvent properties for americium for separation from plutonium, 23:40845(P)
KCl—MgCl$_2$—NaCl, solvent properties for fission products in bismuth—uranium alloys, 21:24093(T) (ORNL-tr-1665)
KCl—MgCl$_2$—NaCl, solvent properties for impurities in electrolyte for refining of plutonium, 21:45880(P)
KCl—MgCl$_2$—NaCl, solvent properties of molten, for americium, 23:38044
KCl—MgCl$_2$—NaCl, sorption by Fiberfrax, 22:25442 (ANL-7375, pp 19-45)
KCl—MgCl$_2$—UCl$_3$, phase studies of, to locate high-uranium low-freezing compositions, 21:5840 (LA-3579)
KCl—NaBr, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KCl—NaCl, corrosive effects of molten equimolar, on zirconium, 22:2583
KCl—NaCl, corrosive effects on zirconium to 900°C, effects of water vapor on, 21:41537
KCl—NaCl, creep of solid solution, 24:25695
KCl—NaCl, density at 786 to 1052°C, 21:23861(R) (ORO-2073-12)
KCl—NaCl, effects on polarographic behavior of rare earths, 23:6105
KCl—NaCl, electrolysis of plutonium trichloride in, preparation of plutonium by, 22:25455 (CEA-N-616, pp 295-368)
KCl—NaCl, electrolytic properties of aqueous solutions of, adiabatic compression and ultrasonic attenuation studies of, 25:13015
KCl—NaCl, ionic mobilities and transference numbers in fused, 21:35701(R) (BNL-50023)
KCl—NaCl, osmotic and activity coefficients for aqueous solutions of, 23:26138 (ORNL-4402)
KCl—NaCl, phase studies on solid solutions of, high pressure, 21:7885(R) (NAA-SR-12175)
KCl—NaCl, solvent properties for uranium mononitride, 23:2260 (ZFK-124)
KCl—NaCl, vapor pressure measurements in water, effects of deuterium on, 23:45281
KCl—NaCl—NaF, complexes of uranium in melts of, 22:8078
KCl—NaCl—NaF, precipitation of uranium from melts of, cathodic, 21:19610
KCl—NaCl—NaF, reactions of uranium in, 21:10325
KCl—NaCl—NaF, reactions of uranium in, thermodynamics of uranium pentafluoride formation in, 21:40842
KCl—NaCl—PbCl$_2$, electromotive force of, effects of uranium tetrachloride on, 22:33318
KCl—NaCl—PuCl$_3$, distribution of americium between liquid plutonium and molten, 22:12290
KCl—NaCl—PuCl$_3$, plutonium equilibrium potential in, thermodynamics for, 23:26221(T) (RFP-Trans-54)
KCl—NaCl—PuCl$_3$, plutonium equilibrium potential in, 22:42669
KCl—NaCl—PuCl$_3$—UCl$_3$, fused, use as fast reactor fuel, 21:4420(P)
KCl—NaCl—ThCl$_4$, freezing points of molten, 23:26237
KCl—NaCl—ThCl$_4$, properties of electrorefining bath of, for separation of thorium from thorium carbide, 24:39615
KCl—NaCl—UCl$_3$, density and equivalent conductivity of fused, 24:4275
KCl—NaCl—UCl$_3$, electric conductivity of molten, 23:28860
KCl—NaCl—UCl$_3$, phase studies of, to locate high-uranium low-freezing compositions, 21:5840 (LA-3579)
KCl—NaCl—UCl$_4$, freezing points of molten, 23:26237
KCl—NaCl—UCl$_4$, phase studies of, thermographic and x-ray diffraction, 25:771
KCl—NaCl—UO$_2$Cl$_2$, phase studies on liquidus surface of, 23:43327
KCl—NaCl—UO$_2$Cl$_2$, spectrum at 600°C, Raman, 24:1309 (ANL-7575, pp 136-69)
KCl—PbCl$_2$, chlorine-36 exchange between molten, and chlorine gas, 22:4124
KCl—PbCl$_2$, ionic mobilities and transference numbers in fused, 21:35701(R) (BNL-50023)
KCl—PbCl$_2$, spectra at 400°C, Raman, 25:58387(R) (ANL-7823)
KCl—PbCl$_2$, spectra at 590°C, Raman, 25:58387(R) (ANL-7823)
KCl—PbCl$_2$, transport number for chloride ions in, tracer studies on, 22:27619 (CEA-N-816, pp 90-101)
KCl—PrOCl, phase studies on, 22:33353
KCl—RbCl, radiation effects on electric conductivity of crystals of, effects of divalent cation impurities on 1.2-MeV-electron, 25:59172
KCl—RbCl, radioinduced F centers in mixed crystals of, efficiency of 5°K electron, 23:25457
KCl—SrCl$_2$, dielectric relaxations in additively colored crystals of, (E), 21:823 (AD-635005)
KCl—TaCl$_5$—UCl$_4$, reactions in, 23:33173
KCl—ThCl$_4$, freezing points of molten, 23:26237
KCl—ThCl$_4$, phase diagram of, 21:32150(T) (IS-Trans-67)
KCl—ThCl$_4$, phase studies of, 21:5006
KCl—ThCl$_4$, vapor pressure studies on compounds formed in, 21:81
KCl—TlCl, radioinduced thallium atoms in crystals of, $^2P(^1/_2)$ to $^2P(^3/_2)$ transitions of gamma, (E), 21:16977
KCl—TlCl, radioinduced thermoluminescence in crystals of, production mechanism of gamma, (E), 21:40110
KCl—TlCl, trapping and annihilation of electrons and positive holes in γ-irradiated, 21:2321
KCl—UCl$_3$, density and equivalent conductivity of fused, 24:4274
KCl—UCl$_3$, effects of molten, on Hastelloy N and Inconel 600, 21:20469
KCl—UCl$_3$, electric conductivity of molten, 23:28860
KCl—UCl$_3$—UF$_3$, phase studies of, to locate high-uranium low-freezing compositions, 21:5840 (LA-3579)
KCl—UCl$_3$—UF$_4$, phase studies of, to locate high-uranium low-freezing compositions, 21:5840 (LA-3579)
KCl—UCl$_4$, freezing points of molten, 23:26237
KCl—UCl$_4$, purification by zone melting, 23:15939
KCl—UCl$_4$, purification by zone refining, 21:19748
KCl—UCl$_4$, separation in, comparison of column crystallization and zone melting methods for, 21:24065 (KFK-502)
KCl—UCl$_4$—UO$_2$, phase studies at 360 to 370°C using x rays, 23:8325
KCl—UO$_2$Cl$_2$, phase studies on, 23:43327
KCl—UO$_2$Cl$_2$, phase studies on, 25:44371
KCl—ZnCl$_2$, density at 300 to 800°C, 21:23861(R) (ORO-2073-12)
KCl—ZnCl$_2$, spectra of molten, neutron scattering studies on, 23:40534 (BNL-50149, pp 26-39)
KCl—ZnCl$_2$, structure of molten, Raman spectra and surface tension measurements on, 21:23861(R) (ORO-2073-12)
KCl—ZnI$_2$, structure of molten, Raman spectral studies on, 21:23861(R) (ORO-2073-12)
KCl-base—NH$_4$Cl, phonon measurements in, 24:32918 (ORNL-4526, pp 64-75)

POTASSIUM CHLORITES
  radiation effects on, distribution of recoil chlorine-38g in chlorine valence states following neutron, 23:234
  radiolysis of anhydrous crystals of, γ, 24:22703

POTASSIUM CHLOROHYDROXYTECHNETATES
  preparation and crystal structure of, 21:45127

POTASSIUM CHLOROMOLYBDATES
  magnetic moments of, 21:21963 (BNL-994, pp 3-19)

POTASSIUM CHLORONITROSYLRUTHENATES
  radiation effects on, preparation of ruthenium-103 by thermal neutron, 24:29356

POTASSIUM CHLOROPALLADATES
  effects on radioinduced polymerization of butadiene, 22:33387
  radiolysis of, ESR studies on ionic yields from γ, 25:31989

POTASSIUM CHLOROPLATINATES
  effects on kinetics of deuterium isotopic exchange in alkylbenzenes, catalytic, 23:15858

POTASSIUM CHLORORHENATES
  see also Potassium Rhenium Chlorides
  neutron reactions (n,γ) with chlorine-35 in, yields of chlorine-36 from, 24:19029
  proton reactions (p,pxn) with rhenium in, chemical forms of radiorhenium from, 24:2258
  radiation effects on crystals of, thermal annealing of 660-MeV proton, 23:47576
  radiation effects on crystals of, thermal annealing of recoil rhenium atoms from proton, 25:57497

POTASSIUM CHLORORHODATES
  neutron reactions (n,γ) with chlorine-35 in, yields of chlorine-36 from, 24:19029
  radiation effects on, recoil reactions from neutron, 24:27105 (JUL-625-RC)
  reactions with pyridine, effects of deuterium on catalyzed, 22:10241

POTASSIUM CHLOROTECHNETATES
  see also Potassium Chlorohydroxytechnetates
  preparation for calorimetric studies, 24:183 (ORNL-4437, pp 107-43)
  thermal capacity at low temperatures, 24:48066 (ORNL-4581, pp 90-130)
  K$_2$(PtCl$_6$)—K$_2$(TcCl$_6$), technetium-99 paramagnetic electron resonance spectra in, 21:27966

POTASSIUM CHLOROURANATES
  magnetic properties of solid and liquid, 24:45348
  uranium tetrachloride vapor pressure over, 23:33173

POTASSIUM CHROMATES
  analysis for impurities by elastic scattering of charged particles, 23:9330
  annealing kinetics of recoil atoms in, (E), 24:19949
  annealing of chromium-51 recoil fragments in reactor-irradiated pellets of, in contact with boric acid pellets, 22:12363
  complexes with oxalates, radiation effects on, reactions of recoil chromium-51 from, 25:57490
  effects on growth of porous anodic oxide films on zirconium, 24:25056
  effects on oxidation of radon, 21:23869
  effects on stainless steel corrosion by nitric acid, 21:465(R) (EURAEC-1678)
  electric conductivity in aqueous solutions of, deuterium isotope effects in, 23:120
  electron spin resonance of gamma- and neutron-irradiated, 22:32007
  radiation effects on alkali halide- and potassium phosphate-activated, ESR spectral studies on γ and reactor, 24:19022
  radiation effects on alkali halide- and potassium phosphate-activated, ESR spectral studies on chromium-51 recoil reactions in neutron, 24:19022
  radiation effects on barium-activated, effects of annealing on recoil atoms produced by neutron, 21:40885
  radiation effects on barium-doped, effects of crystal defects and dose on activation energy in γ, 23:9440
  radiation effects on crystalline, effects of annealing on thermal-neutrons, 21:36034
  radiation effects on crystals of, at 77°K, ESR studies on, 24:22700
  radiation effects on crystals of, distribution of recoil chromium-51 from neutron, 25:29171
  radiation effects on crystals of, separation and chemical properties of polynuclear recoil products from neutron, 25:18486
  radiation effects on monocrystals of, effects of radiation and thermal annealing on reactions of recoil chomium-51 from neutron, 25:39557
  radiation effects on phosphate-doped crystals of, annealing of thermal-neutron, 22:33396
  radiation effects on thermal degradation of K$_3$CrO$_8$, x, 22:18847
  radiation effects on, at low temperatures, chemical states of recoil chromium-51 from neutron, 24:36302
  radiation effects on, chemical reactions of chromium-51 recoil atoms produced by low-temperature neutron, 24:31369
  radiation effects on, effects of isothermal annealing on fast-neutron and γ, 22:12362
  radiation effects on, effects of oxygen on annealing of recoil atoms in, 25:21072
  radiation effects on, effects of oxygen on isothermal and isochronal annealing reactions of chromium-51 recoils from neutron, 25:51541
  radiation effects on, isochronal and isothermal annealing of recoil chromium-51 ions produced from neutron, 23:40770
  radiation effects on, preparation of chromium-51 from neutron, 25:48562
  radiation effects on, production of chromium-51 by Szilard—Chalmers process in neutron, 23:19770
  radiation effects on, reactions of recoil chromium-51 in bremsstrahlung, 24:19007
  radiation effects on, retention and annealing of chromium-51 from, 21:45163
  radiation effects on, role of recoil reactions in "crossover reaction" on thermal annealing of neutron, 25:54679
  radiation effects on, step-annealing study of neutron, 24:2242
  radiation effects on, study of fragments produced by neutron, 23:277

radioinduced chromium-51 enrichment in, neutron, 22:14527
radioinduced defects in, effects of lanthanum doping on thermal annealing of reactor, 24:48119
radioinduced thermal annealing of neutron-irradiated, chemical effects of electron- and γ-, 22:27827
radiolysis of deaerated sulfuric acid solutions of, yields from γ, 21:28032
radiolysis of polycrystalline, ESR studies on mechanism of γ- and neutron-, 23:13788
radiolysis of, effects of annealing and physical state on mechanism of, 24:27125
radiolysis of, ESR study of γ and neutron, 22:2098 (IFA-ESR-16)
radiolysis of, in dilute sulfuric acid solutions, effects of acidity on yields in gamma, 21:1375 (BLG-407)
reactions of recoil chromium-51 in pure or alkali metal halide-doped, computer studies on models for annealing, 25:37449
reactions of recoil chromium-51 in, effects of alkali metal halides on, 22:25398
use in potentiometric determination of uranium in phosphoric acid, 22:1968(T) (CEA-tr-X-630)
use in potentiometric titration of molybdenum and vanadium, 22:16418
use in separation of fission products from kerosene degraded by nitric acid, 22:4245
use in standardization of ceric sulfate solutions, 22:8055
use of, in constant-current potentiometric determination of plutonium, 21:12340
use of, in determination of uranium, 21:12341
$[Co(NH_3)_6]Cl_3$—K_2CrO_4, radiation effects on, reactions of recoil chromium-51 from neutron, 24:33743
$[Co(NH_3)_6]Cl_3$—K_2CrO_4, radiation effects on, retention of recoil chromium-51 from neutron, 25:23637
K_2CrO_4—sodium formate, effects on yield of primary hydrogen atoms from gamma radiolysis of water, 21:23955
KCl—$KCrO_4$, reactions of solid solutions of, with recoil chromium-51, chemical effects in, 25:29166

POTASSIUM CHROMIUM OXALATES
racemization of solid, kinetics of thermal, 24:239
radiation effects on racemization of solid, neutron, 24:239

POTASSIUM COBALT CYANIDES
complexes with chromium, relaxation processes in, spectral studies on, 22:37712(R) (COO-773-15)

POTASSIUM COBALT FERROCYANIDES
preparation of, for use as ion exchanger, 21:8429(P)
properties as ion exchanger in radiochemical determination of cesium-137, 23:37908
structure of, electron-graphic and electron-microscopic studies on, 22:35825

POTASSIUM COBALT FLUORIDES
magnon-phonon interaction in single crystals of, at low temperature, (E), 22:11944(R) (AECL-2780)

POTASSIUM COBALT OXALATES
cobalt-57 electron capture decay in, Moessbauer spectroscopy of iron-57 from, 24:19036
radiation effects on, effects of pH and solvent on degradation product distribution in neutron, 23:26316

POTASSIUM COPPER CHLORIDES
thermal conductivity of $CuK_2Cl_4.2H_2O$ in magnetic fields near Curie point, 23:30612(R) (ORNL-4408)

POTASSIUM COPPER FERROCYANIDES
sorptive properties for cesium, 23:17302 (NIRS-7, pp 11-18)
structure of, electron-graphic and electron-microscopic studies on, 22:35825

POTASSIUM CURIUM FLUORIDES
preparation and crystal structure of $K_7Cm_6F_{31}$, 22:2080

POTASSIUM CYANATES
radiation effects on, ESR studies on electron and γ, 23:33230
radioinduced defects in crystals of, ESR and optical absorption studies of electron and gamma, 22:17725(R) (NYO-2047-42)
radiolysis of single crystals of, ESR studies of CN molecule from γ, 25:15679
spectra of, absorption, excitation, and phosphorescence, 23:47424(R) (ORO-3018-53)

POTASSIUM CYANIDES
effects of, on respiration in β-irradiated seedlings of Phaseolus vulgaris, 21:9021
effects on exchange of rubidium-86 and potassium in roots of rice and sorghum, 23:41222
effects on radioisotope uptake by tracheal cells of guinea pigs, 22:12804
effects on repair of uv-induced lesions in Escherichia coli, 22:51526
effects on selenium-75 affinity for tumor cells and normal tissue in hamsters following administration as labeled radium selenite, 25:46681
effects on survival of in vitro-maintained rat thymocytes, 21:17974
effects on x-radiosensitivity of green algae, 25:4574
ion rotational motion in doped potassium chloride single crystals, (E), 22:35293(R) (ORNL-4230)
neutron reactions (n,2n) with nitrogen-14 in, chemical state of nitrogen-13 from, 24:256
radiation effects on, ESR study of $(CN)_2^-$ radical from γ, 22:12369
radiation effects on, reactions of carbon-14 and nitrogen-13 recoil atoms from neutron, 24:18986 (NP-18126)
radiation effects on, reactions of recoil carbon-14 and nitrogen-13 from neutron, 25:13072
radiolysis of, yields in neutron, 22:45100

POTASSIUM CYANOCHROMATES
magnetic moments of, 21:21963 (BNL-994, pp 3-19)

POTASSIUM CYANOCUPRATES
luminescence of, 23:47424(R) (ORO-3018-53)

POTASSIUM CYANOMOLYBDATES
reactions with uranyl nitrates, conductometric and spectral studies on composition and stability of uranyl molybdocyanide ion produced by, 25:51436
use in determination of cerium(III) by potentiometric titration, 23:37903

POTASSIUM CYANOOSMATES
radiation effects on crystals of, chemical effects of annealing and nuclear transformations on osmium-191m and -193 produced by neutron, 23:11535
$K_4Fe(CN)_6$—$K_4Os(CN)_6$, radiation effects on crystals of, chemical effects of annealing and nuclear transformations on osmium-191m and -193 produced by neutron, 23:11535

POTASSIUM CYANORHODATES
radiation effects on, in potassium chloride lattice, EPR studies on electron, 25:18462

POTASSIUM DEUTERIDES
spectra of potassium-39-labeled, rotational and vibrational constants from, 21:1345
thermodynamics of, 22:12958

POTASSIUM DICHROMATES
corrosive effects on carbon steels, stainless steels, and titanium of fused, relations with anodic passivation, 23:24798
effects on growth of porous anodic oxide films on Zircaloy-2, 24:25056
radiation effects on, production of chromium-51 from neutron, 24:29341
use in potentiometric determination of uranium, 23:49694 (RT/CHI-(69)12)
H_2SO_4—$K_2Cr_2O_7$, effects on γ radiation effects on alumino-silicate glass, 23:11574
HF—H_3PO_4—$K_2Cr_2O_7$, use as solvent in spectrophotometric determination of nitrogen in refractory metals and alloys, 22:16448

POTASSIUM DIOXODIFLUOROIODATES
radiation effects on single crystals of, ESR studies on radicals produced by γ, 25:18420 (COO-1385-34)

POTASSIUM DIOXOPENTAFLUOROURANATE
reactions with oxalate ions, 22:33325

POTASSIUM DITHIONATES
radiolysis of solid, gamma, 22:25436

POTASSIUM ETHOXIDE
complexes of, with 2,4-dinitroanisole, spectral studies on, 21:14240(R) (RRL-2310-194)
reactions with 2-(2,4-dinitrophenoxy)ethanol in dioxane, formation of spiro Meisenheimer complexes by, 22:96(R) (RRL-2310-214)
reactions with 3-halopentanes in ethanol, effects of deuterium on cis- and trans-2-pentene formation by, 22:27719

POTASSIUM ETHYL SULFATES
radiation effects on, ESR studies on radical formation at 77 to 300°K in γ, 21:28003

POTASSIUM FERRATES
complexes with oxalates, radiation effects on solid, Moessbauer studies of γ, 23:6176
complexes with oxalic acid, radiation effects on crystals of, iron-recoil studies in neutron, 21:17695
radioinduced reduction in sodium phosphate solutions, mechanism of γ, 21:21984

POTASSIUM FERRICYANIDES
complexes with less-common metallic elements for development on thin-layer chromatograms, 23:26153
effects on γ radiolysis of frozen aqueous solution of ethanol, 24:20797
effects on sorption of uranium by ion exchange resins, 22:30566
effects on x-radiosensitivity of Escherichia coli, effects of oxygen on, 23:2868
iron-57 Moessbauer effect in, (E), 22:46273
iron-57 Moessbauer effect in, magnetic hyperfine structure from, (E), 22:15577
Moessbauer spectra at 0.025 to 0.04°K, (E), 22:11496
radiolysis of aqueous alkaline solutions of, 23:26275
radiolysis of, yields from gamma, 21:3102
reactions of alkaline aqueous solutions of, in argon and helium atmospheres, comparison of gamma radiolysis with silent discharge, 22:4181
reactions of aqueous solutions of, with solvated electrons produced by silent electric discharge, 23:26275
structure factor phase measurements using gamma resonance spectroscopy, 25:40830
$K_3Fe(CN)_6$—$K_4Fe(CN)_6$—sodium formate, radiolysis of, effects of pH on radical and molecular yields from x, 21:23930
$K_3Fe(CN)_6$—$Na_2S_2O_4$, properties for use in purification of powdered tellurium, 23:49922
$K_3Fe(CN)_6$—NaOH, corrosive effects of aqueous, on nickel—tungsten composites, 24:23432
$K_3Fe(CN)_6$—NH_3, properties for use in purification of powdered technical tellurium, 23:49922

POTASSIUM FERROCYANIDES
see also Potassium Cobalt Ferrocyanides
complexes with samarium and neodymium, titrimetric method based on, 23:24086
crystal lattice dynamics near ferroelectric transition temperature, Moessbauer studies on, (E), 23:1878(R) (NYO-2028-3)
crystal structure of deuterated, 24:25633 (ANL-7417, pp 105-10)
crystal structure of deuterated, neutron diffraction studies of, 22:43596 (ANL-7299, pp 280-9)
crystal structure of trideuterate of, neutron diffraction study on, 21:11208 (ANL-7155, pp 167-289)
determination by redox method using neutron-activated silver, 22:40021
effects on cesium-137 excretion in feces and urine of pigs following ingestion of contaminated milk, 25:24022
effects on excretion of cesium-137 by rats, 25:24021
ion exchange properties for radiocesium in seawater, 23:35256 (CEA-R-3585)
iron-57 Moessbauer effect in solidified aqueous solutions at -191 to 0°C, (E), 22:46255
neutron reactions (n,γ) with iron-58 in, chemical species in products from, 23:2362
neutron reactions (n,γ) with iron-58 in, thermal annealing processes after, 23:2362
precipitation of cadmium, cobalt, copper, and zinc by, conditions for, 22:35793
radiation effects on iron-58-labeled, reactions of recoil iron-59 from neutron, 25:13068
radiation effects on, chemical reactivity of recoil species produced by thermal neutron, 24:11547 (CEA-R-3872)
radiolysis of, chemical effects of thermal neutron, 25:34663
radiolysis of, yields from gamma, 21:3102
reactions with nickel sulfate, stoichiometric composition of precipitates from, 24:11423 (CEA-N-1148, pp 3-80)
reactions with nickel sulfate, stoichiometric composition of precipitates from, 24:22576(T) (ANL-Trans-796)
solvent properties for sodium oxalate at 25°C, 23:4635
use in determination of thorium by amperometric titration, 22:48825
use in titrimetric determination of cerium, 22:16434
use in volumetric determination of cerium, 21:5820
use in volumetric determination of mixture of trivalent cerium and lanthanum, 21:19568
use of, as precipitating reagent in uranium and rare earth separation on sulfonic cation exchanger KU-2, 21:19742
$K_3Fe(CN)_6$—$K_4Fe(CN)_6$—sodium formate, radiolysis of, effects of pH on radical and molecular yields from x, 21:23930
$K_4Fe(CN)_6$—$K_4Os(CN)_6$, radiation effects on crystals of, chemical effects of annealing and nuclear transformations on osmium-191m and -193 produced by neutron, 23:11535
$K_4Fe(CN)_6$—N_2O, radiolysis of deuterated and normal aqueous solutions of, effects of acidity and solute concentration on yields in x, 21:8337

POTASSIUM FLUORIDES
see also Potassium Cobalt Fluorides
see also Potassium Iron Fluorides
see also Potassium Magnesium Fluorides
see also Potassium Manganese Fluorides
see also Potassium Molybdenum Fluorides
see also Potassium Niobium Fluorides
see also Potassium Praseodymium Fluorides
see also Potassium Protactinium Fluorides
see also Potassium Tantalum Fluorides
see also Potassium Thorium Fluorides
see also Potassium Uranium Fluorides
see also Potassium Uranyl Fluorides
see also Potassium Zirconium Fluorides
analysis for fluorine by fast neutron activation, 23:43278
analysis for oxygen by inert gas fusion, 21:27887 (AERE-R-4850)
analysis of, for manganese by extraction with thenoyltrifluoroacetone and activation methods, 21:12343
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
defects in crystals of, Stark effect on F-center emission band, (E/T), 22:15567 (NYO-3564-9)
diffusion of argon in solid, 21:14881(R) (EURAEC-1650)
diffusion of argon-39 and -41 from neutron-irradiated single crystals of, (E), 21:44184
diffusion of rare gases in, 21:15796
diffusion of water molecules in aqueous solutions of, kinetics of, 23:6093(R) (NP-17690)
effects on hydrogen yields in radiolysis of deuterated methanol, 22:23034 (IA-1128, pp 78-96)
effects on kinetics of γ-radioinduced graft polymerization of poly(ethylene terephthalate) with acrylic acid, 25:46504
effects on properties and structure of heavy water—water mixtures, emf studies on, 21:30424
effects on separation of trace amounts of rare earths from uranium by ion exchange, 22:47215
effects on surface oxidation of niobium, 23:41551
effects on survival of Escherichia coli, combined effects of γ radiation on, 22:40967
effects on yields in radiolysis of aqueous solutions, 22:23034 (IA-1128, pp 78-96)
electron reactions with, energy loss in, (E), 22:29204
fluoride chemical shifts in, effects of deuterium in solvent on, 22:16510
intermolecular frequencies of water molecules in aqueous solutions of, slow neutron inelastic scattering measurements on, 23:6093(R) (NP-17690)
partition function ratio of isotopic, 21:1349
proton transport in, stopping power and additivity for 1-MeV, (E), 22:17416
radiation effects on electron stabilization in neutral, vitreous, aqueous solutions of, at -196°C, EPR studies on γ, 22:23060
radiation effects on glassy aqueous solutions of, yield of trapped electrons from, 23:47498
radiation effects on, at 20°K, x, (E), 22:13605
radioinduced F centers in, effects of electric field and temperature on radiative lifetime of excited, 25:27841 (NYO-3463-23)
radioinduced reactions with organic compounds, preparation of fluorine-18-labeled compounds by γ, 22:27804
radiolysis of frozen aqueous solutions of, ESR study of hydrogen atoms and hydroxyl radicals from, 25:57467
reactions of, with actinide and rare earth fluorides, crystal structure of compounds formed by, 21:10311 (KFK-431)
reactions of, with uranium hexafluoride, compound formation in, 21:5898
reactions with irradiated and nonirradiated uranium or plutonium—uranium alloys at 700 to 1300°C, 23:38081
reactions with uranium hexafluoride, self-ionization studies on, 24:48101
reactions with uranyl nitrates, formation of uranyl fluoride from, 21:21951
solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
sorptive properties of solid, for uranium hexafluoride in heptadecafluorodecahydro-2-(trifluoromethyl)naphthalene, kinetics of, 25:51465 (A/CONF.49/P-546)

  - spectra of, effects of heavy water as solvent on far-infrared, 22:16520
  - use of, as precipitating reagent in uranium and rare earth separation on sulfonic cation exchanger KU-2, 21:19742
  - vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
  - $AgNO_3$—KF, radiolysis of frozen aqueous solutions of, paramagnetic relaxation of silver species from γ, 24:36303
  - $AgNO_3$—KF, radiolysis of, EPR studies on neutral silver trapping sites from γ, 25:54666
  - Al_2O_3—KF, effects of, on radioinduced conversion of methanol and cyclohexane, 21:12476
  - AlF_3—BeF_2—CaF_2—KF, radiation stability of glasses of, effects of OH groups on γ, 23:26285
  - AlF_3—KF—ZrF_4, solvent properties for uranium and fission products in reprocessing of aluminum-containing fuels, 23:38088(P)
  - AlF_3—KF—ZrF_4, use as solvent for aluminum-containing reactor fuels, 21:36103(P)
  - BeF_2—KF—YF_3, phase diagram of, 24:27888
  - BeF_2—KF—NaF, corrosive effects on Croloy 9M and Hastelloy N at 610°C, 22:8696 (ORNL-4170, pp 192-205)
  - BF_3—KF—NaF, phase studies on, 25:48500
  - BF_3—KF—NaF, phase studies on, 23:45182 (ORNL-4396, pp 129-209)
  - BF_3—KF—NaF, phase studies on, 24:36205 (ORNL-4586, pp 1-32)
  - BF_3—KF—NaF, phase studies on molten, 24:16486 (ORNL-4449, pp 96-163)
  - BF_3—KF—NaF, properties as secondary coolant salt and/or heat transfer fluid for breeder-type molten salt reactor, 23:40622(P)
  - CeF_3—KF, electric conductivity of molten, 25:37389 (BM-RI-7528)
  - CeF_3—KF, phase studies of, 21:21918 (ORNL-4076, pp 1-54)
  - CeF_3—KF, phase studies on, 25:48501
  - CeF_3—KF, phase studies on, 24:36205 (ORNL-4586, pp 1-32)
  - CeF_4—KF, complexes of, use of molar refractivity in determining composition of, 23:33183
  - D_2O—H_2O—KF, phase diagram for, 21:34288 (AE-283)
  - H_2O—KF—MoO_3, phase studies and compound formation in, 22:45080
  - H_2O—KF—UO_2F_2, compound formation in, 23:21715
  - H_2O—KF—UO_3, phase studies, 21:19609
  - H_2O—KF—UO_3, phase studies and compound formation in, 22:45080
  - H_2O—KF—UO_3, solubility in, effects of potassium fluoride concentration on isothermal, 21:19609
  - H_2O—KF—WO_3, phase studies and compound formation in, 22:45080
  - H_2O—KF—ZrF_4, phase studies on, at 25°C, 21:21947
  - HF—H_2O—KF, fluorine-19 NMR chemical shift in, effects of deuterium on, 22:27673
  - KBF_4—KF, phase diagrams of, non-ideality of mixing in, 23:105 (ORNL-4306, pp 120-30)
  - KBF_4—KF, phase studies of, 22:25327 (ORNL-4229, pp 3-21)
  - KBF_4—KF, phase studies on, 25:48502
  - KBF_4—KF, phase studies on, 23:45182 (ORNL-4396, pp 129-209)
  - KBF_4—KF, thermodynamic properties of molten, 23:19693 (ORNL-4344, pp 109-99)
  - KBF_4—KF—$NaBF_4$—NaF, phase studies of, 22:25327 (ORNL-4229, pp 3-21)
  - KBF_4—KF—$NaBF_4$—NaF, phase studies of, 22:47112 (ORNL-4254, pp 88-173)
  - KCl—KF, separation of boron from, 22:25440(R) (MLM-1443)
  - KCl—KF, separation of boron from, method for, 22:1956(R) (MLM-1405)
  - KCl—KF—K_2NbF_7—Nb_2O_5, electrolysis of molten, electrowinning of niobium by, 22:19492
  - KF—LaF_3, electric conductivity of molten, 25:37389 (BM-RI-7528)
  - KF—LiF, density at 515 to 738°C, 21:23861(R) (ORO-2073-12)
  - KF—LiF, electric conductivity and density of molten, 25:37389 (BM-RI-7528)
  - KF—LiF, electroplating of zirconium on uranium from molten, 22:52143 (BNWL-825)
  - KF—LiF—NaF, analysis of, for chromium and nickel, spectrophotometric, 21:12285(R) (ORNL-4039)
  - KF—LiF—NaF, electric conductivity and density of molten, 25:37389 (BM-RI-7528)
  - KF—LiF—NaF, electrochemical properties of molten, 22:10139(R) (ORO-3518-4)
  - KF—LiF—NaF, electrochemical properties of tantalum in molten, 25:31947
  - KF—LiF—NaF, electrochemical studies on nickel couples in molten, 21:15880 (ORO-3518-2)
  - KF—LiF—NaF, electrochemical studies on nickel/nickel couples, 21:8237(R) (ORO-3518-1)
  - KF—LiF—NaF, electroplating of zirconium on uranium from molten, 22:52143 (BNWL-825)
  - KF—LiF—NaF, properties of powdered eutectic of, for extinguishing plutonium fires, 23:15832 (LA-3967)
  - KF—LiF—NaF, properties of refractory metal salt incorporating, for use as bath in metal electrodeposition, 25:29783 (CEA-N-1376)
  - KF—LiF—NaF, reactions of molten, with iron couples, electric potential measurements for, 24:13843
  - KF—LiF—NaF, reactions with tetravalent titanium at 480 to 500°C, 25:15567(R) (ORO-3518-19)
  - KF—LiF—NaF, separation of hydrofluoric acid and silicon tetrafluoride from, method for, 23:9302 (ORNL-4343, pp 23-33)
  - KF—LiF—NaF, solvent properties of molten, for uranium, 21:35948
  - KF—LiF—NaF, spectra of chromate, cobalt, copper, manganese, and tantalum in molten, 24:41249 (TID-25480)
  - KF—LiF—NaF, spectra of O_2^- in molten, absorption and Raman, 24:41249 (TID-25480)
  - KF—LiF—NaF, spectra of oxygen ions O_2^- in molten, absorption, 25:31947
  - KF—LiF—NaF, spectra of uranium, copper, manganese, and chromate ions in molten, 25:31947
  - KF—LiF—NaF, voltammetry in molten, 22:10139(R) (ORO-3518-4)
  - KF—LiF—NaF—UF_4, corrosive effects on nickel-base molybdenum alloys, relations with additive alloying elements, 23:26993 (ORNL-TM-2021(Vol.1))
  - KF—LiF—NaF—WF_4, analysis for trace amounts of nickel by x-ray fluorescence, 24:22576(T) (ANL-Trans-796)
  - KF—LiF—NaF—WF_4, analysis for trace amounts of nickel by x-ray fluorescence, 24:11423 (CEA-N-1148, pp 3-80)
  - KF—NaF, electric conductivity and density of molten, 25:37389 (BM-RI-7528)
  - KF—PaF_4, preparation and structure of, 22:30555
  - KF—PtF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
  - KF—SmF_3, electric conductivity and density of molten, 25:37389 (BM-RI-7528)
  - KF—ThF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
  - KF—ThF_4, electric conductivity of molten, 25:37389 (BM-RI-7528)
  - KF—UF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
  - KF—UF_4, electric conductivity of molten, 25:37389 (BM-RI-7528)
  - KF—UF_3, complexes of, use of molar refractivity in determining composition of, 23:33183
  - KF—UO_2, radiation effects on, production of xenon fluorides by, 23:40775(P)
  - KF—YF_3, electric conductivity of molten, 25:37389 (BM-RI-7528)
  - KF—YF_3, phase diagram of, 22:45079
  - KF—YF_3, phase diagram of, 23:17390 (BM-RI-7246)
  - KF—ZnF_4, use as solvent for aluminum-containing spent reactor fuels, 21:36104(P)
- POTASSIUM FLUOROBORATES
  - crystal structure of, 24:36205 (ORNL-4586, pp 1-32)
  - crystal structure of, 23:45182 (ORNL-4396, pp 129-209)
  - density at 578 to 674°C, 23:45182 (ORNL-4396, pp 129-209)
  - effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
  - enthalpy and entropy of, 24:48066 (ORNL-4581, pp 90-130)
  - enthalpy of, 23:19693 (ORNL-4344, pp 109-99)
  - melting points and solid transition temperatures of, 24:16486 (ORNL-4449, pp 96-163)
  - molar volumes of, 24:16486 (ORNL-4449, pp 96-163)
  - preparation of fluorine-18-labeled, 24:4303(R) (NYO-910-124)
  - preparation of high-purity, 25:48502
  - preparation of high-purity, 22:25327 (ORNL-4229, pp 3-21)
  - production of boron-10-enriched, differential thermal analysis for quality control in, 25:29188
  - proton transport in, stopping power and additivity for 1-MeV, (E), 22:17416
  - purification of powders of, by pyrohydrolysis, 25:34499 (Y-1756)
  - solvent properties for fluorides, 22:25327 (ORNL-4229, pp 3-21)
  - thermodynamic properties of, 24:46307 (ORNL-4548, pp 93-186)
  - thermodynamics at 298 to 900°K, 24:182 (ORNL-4437, pp 98-106)
  - viscosity of, 24:16486 (ORNL-4449, pp 96-163)
  - viscosity of molten, 24:36205 (ORNL-4586, pp 1-32)
  - KBF_4—K_2ZrF_6, properties of fused boron oxide—zirconium oxide bath of, for electrodeposition of zirconium diboride, 24:39697
  - KBF_4—KF, phase diagrams of, non-ideality of mixing in, 23:105 (ORNL-4306, pp 120-30)
  - KBF_4—KF, phase studies of, 22:25327 (ORNL-4229, pp 3-21)
  - KBF_4—KF, phase studies on, 25:48502
  - KBF_4—KF, phase studies on, 23:45182 (ORNL-4396, pp 129-209)
  - KBF_4—KF, thermodynamic properties of molten, 23:19693 (ORNL-4344, pp 109-99)
  - KBF_4—KF—$NaBF_4$—NaF, phase studies of, 22:25327 (ORNL-4229, pp 3-21)
  - KBF_4—KF—$NaBF_4$—NaF, phase studies of, 22:47112 (ORNL-4254, pp 88-173)
  - KBF_4—Li_2BeF_4, miscibility in, 24:182 (ORNL-4437, pp 98-106)
  - KBF_4—Li_2BeF_4, phase studies on, 23:45182 (ORNL-4396, pp 129-209)
  - KBF_4—LiF, miscibility in, 24:182 (ORNL-4437, pp 98-106)
  - KBF_4—LiF, phase diagrams of, 23:45182 (ORNL-4396, pp 129-209)
  - KBF_4—$NaBF_4$, phase diagram of, 23:19693 (ORNL-4344, pp 109-99)
  - KBF_4—$NaBF_4$, phase studies on, 23:45182 (ORNL-4396, pp 129-209)
  - KBF_4—$NaBF_4$—NaF, compatibility of molten, with Croloy 9M and Hastelloy N, 23:22466 (ORNL-TM-2490)
  - KBF_4—NaF, phase diagram of, 23:19693 (ORNL-4344, pp 109-99)
  - KBF_4—NaF, phase diagrams of, non-ideality of mixing in, 23:105 (ORNL-4306, pp 120-30)
- POTASSIUM FLUOROBROMIDES
  - reactions of, with uranium tetrafluoride in bromine trifluoride, complexing and neutralization in, 21:1344
- POTASSIUM FLUOROMOLYBDATES
  - crystal structure of, 24:13799 (ORNL-4400, pp 1-29)
  - preparation of, 23:19693 (ORNL-4344, pp 109-99)
  - spectra of, 23:19693 (ORNL-4344, pp 109-99)
  - spectra of, diffuse reflectance, 24:13998 (ORNL-4400, pp 31-56)
- POTASSIUM FLUORONIOBATES
  - fluorine-19 NMR in polycrystalline, 24:9381
  - K_2NbF_7—$NiSO_4$, performance as electrolyte for deposition of nickel—niobium coating on iron and steel, 22:17087
- POTASSIUM FLUOROPHOSPHATES
  - radiolysis of crystals of, containing PO_3F^{2-} impurities, ESR spectral studies on O_2PF_3 and O_2PF^- radical intermediates produced by γ, 24:36327
  - radiolysis of, ESR studies on radicals produced by γ, 25:34667
- POTASSIUM FLUOROPLATINATES
  - $K_2(PtF_6)$—$K_2(TcF_6)$, technetium-99 paramagnetic electron resonance spectra in, 21:27966
- POTASSIUM FLUOROSILICATES
  - proton transport in, stopping power and additivity for 1-MeV, (E), 22:17416
  - CrO_3—K_2SiF_6—$SrSO_4$, performance as electrolyte for deposition of chromium on zirconium and zirconium alloys, 24:44665(P)
- POTASSIUM FLUOROTANTALATES
  - fluorine-19 NMR in polycrystalline, 24:9381
  - production of high-purity, by ion exchange method, 24:295
- POTASSIUM FLUOROTECHNETATES
  - $K_2(PtF_6)$—$K_2(TcF_6)$, technetium-99 paramagnetic electron resonance spectra in, 21:27966
- POTASSIUM FLUOROTHORATES
  - crystal structure of β-phase K_5ThF_9, 25:46506
- POTASSIUM FLUOROURANATES
  - paramagnetic resonance of single crystals of, 22:50980
- POTASSIUM FORMATES
  - radiation effects on, ESR spectral studies on hyperfine parameters of CO_2^- radicals produced by γ, 25:15646
- POTASSIUM GERMANATES
  - radioinduced centers in glasses and polycrystals of, ESR spectra of gamma, 25:7463
- POTASSIUM GERMANIUM FLUORIDES
  - spectra of solid, ir and Raman, 21:45210 (ORNL-4164, pp 24-34)
- POTASSIUM, GERMYL-
  - chemistry of, 23:40616 (UCRL-18735, pp 5-80)
  - reactions with diborane in 1,2-dimethoxyethane, properties of potassium germyltrihydroborate produced by, 21:35924 (UCRL-17602)
  - reactions with organic halides, 25:23495 (UCRL-20502)
- POTASSIUM GERMYLTRIHYDROBORATE
  - properties of, produced by reactions of diborane with potassium germyl in 1,2-dimethoxyethane, 21:35924 (UCRL-17602)
- POTASSIUM GRAPHITE
  (The lamellar compound)
  - paramagnetic susceptibility of KC_8 at 300 to 0.4°K, ESR study of, 24:47182
  - reactions with gaseous halides, hydrogen, and oxygen, 21:42920
  - superconductivity in, search for, 24:47182
- POTASSIUM HAFNIUM PHOSPHATES
  - crystal structure of, 23:142
  - preparation of, 23:142
- POTASSIUM HALIDES
  - color centers in, empirical relationships for emission energies and lifetimes of F, 22:13537 (ORNL-TM-2054)
  - F centers in, calculation of F and K band shapes for, 23:30612(R) (ORNL-4408)
  - gas migration in ionic crystals of, inert, (T), 23:7065
  - positron annihilation rates in crystals of, (E), 22:52511
- POTASSIUM HEXACYANOCOBALTATE
  - radiation effects on single crystals of, EPR spectra of x, 23:261
- POTASSIUM HEXATHIOCYANOMOLYBDATE(III)
  - carbon-14 exchange in complexes of, kinetics of, 21:8293
- POTASSIUM HYDRIDES
  - nuclear magnetic resonance of, effects of impurities on, 24:15417
  - positron lifetime in, delayed coincidence system study of, (E), 22:38732
  - spectra of potassium-39-labeled, rotational and vibrational constants from, 21:1345
  - thermodynamics of, 22:12958
- POTASSIUM HYDROXIDES
  - analysis of solutions of, for aluminum and iron, review on La Hague plant atomic absorption spectrophotometric, 24:13754
  - corrosive effects of aqueous, on chromium—nickel steels, effects of molybdenum and silicon on, 21:24718(T) (ORNL-tr-1628)
  - corrosive effects of aqueous, on niobium and niobium—titanium alloys at 100°C, 23:8119
  - corrosive effects on iron, factors affecting and mechanisms of, 24:23429(R) (COO-2018-4)
  - corrosive effects on nickel, factors affecting and mechanisms of, 24:23429(R) (COO-2018-4)
  - corrosive effects on rhenium, 23:10164
  - corrosive effects on rhenium, relations with temperature, 23:8123
  - corrosive effects on transition metals in groups IVA, VA, and VIA, 23:10164
  - dissociation at high temperatures using flowing cell, potentiometric determination of, 25:54535 (ORNL-4717, pp 57-82)
  - effects of motion of electrolyte of, on performance of oxygen cathode, 21:44997 (UCRL-17594)
  - effects on gamma radiolysis of crystalline ice at 77°K, 25:173
  - effects on gaseous yields in photolysis and radiolysis of nitrous oxide in alcohol solutions, 22:23034 (IA-1128, pp 78-96)
  - effects on γ radiolysis of ferrate solutions, kinetics of, 21:28041
  - effects on γ radiolysis of methanol, 23:11544
  - effects on mechanical and physical properties of cobalt—magnesium and magnesium—nickel alloys, 24:27763

  effects on production of water-d$_2$ by electrolysis, 23:31406(P)
  effects on solubility of iron oxide Fe$_3$O$_4$ in water, 23:49769 (ORNL-TM-2667)
  effects on yields in gamma radiolysis of methanol solutions containing nitrous oxide, 22:10281
  isotopic exchange between gaseous deuterium and aqueous solutions of, 22:40097
  performance as electrolyte in electrochemical machining of niobium, 24:17240
  precipitation of uranium(VI) in aqueous solutions using, effects of neutral electrolytes on, 21:14202
  properties of aqueous solutions of, to increase effectiveness of reactor emergency core cooling systems, 23:28492 (SNE-50)
  radiation effects on accumulation and destruction of hydroxyl radicals in frozen solutions of, effects of impurities on γ, 25:48521
  radiation effects on aqueous glasses of, delocalization of electrons captured in γ, 23:2321
  radiation effects on aqueous solutions of, at 77°K, EPR studies of, 21:24037
  radiation effects on aqueous solutions of, ESR studies of ozonide ion formation from γ, 25:54608
  radiation effects on heavy and light water solutions of, spectral studies on γ, 22:23060
  radiation effects on ices of, γ, 25:8272
  radiolysis of aqueous solutions of, at low temperatures, EPR spectral studies on yields from γ, 24:18995
  radiolysis of aqueous solutions of, kinetics of primary species decay in electron-pulse, 24:27167
  radiolysis of ethanol and methanol solutions of, yields of solvated electrons from electron pulse, 24:27172
  radiolysis of frozen aqueous solutions of, LET effects on yields and distribution of free radicals from α and γ, 25:51536
  radiolysis of frozen aqueous solutions of, spectral studies on electron pulse, 21:5914
  radiolysis of, in normal and heavy water, spectra of trapped electrons in γ, 21:3112
  reactions with mandelic acid and uranyl nitrate, production of K$_2$UO$_2$(O$_3$C$_8$H$_6$)$_2$ from, 25:4055
  reactions with tungsten surfaces, passivation and polishing, 22:52136
  separation from seawater, economics in nuclear-powered agro-industrial complex of, 23:28943 (CONF-680810-, pp 249-68)
  solvent properties for beryllium, 22:27845 (CEA-N-816, pp 150-276)
  solvent properties of aqueous solutions of, for zirconium oxide, 23:31343
  use for absorption of carbon dioxide in in vitro metabolic systems, effects of, in efficiency of phosphors, carbon-14 tracer study of, 23:43653
  dimethyl sulfoxide—KOH, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
  KOH—N$_2$O—2-propanol, radiolysis of, kinetics of chain reactions in gamma, 21:28009
  KOH—NaOH, diffusion of NpO$_5^{3-}$ in molten, chronopotentiometric study of, 24:36261
  KOH—NaOH, radiolysis of aqueous solutions of, formation of solvated electrons in pulsed-electron, 22:42795
POTASSIUM HYDROXYFLUOROBORATES
  preparation of, 23:19693 (ORNL-4344, pp 109-99)
  thermal properties of, 23:19693 (ORNL-4344, pp 109-99)
POTASSIUM HYDROXYLAMINE-N,N-DISULFONATE
  radiolysis in alkaline solutions, reactions of hydrated electrons in electron-pulse, 23:15914
POTASSIUM HYPOBROMITES
  reactions with hexavalent plutonium, 24:9322
POTASSIUM INDIUM CHLORIDES
  radiation effects on, electrophoretic behavior of complexes from neutron, 22:45094 (LFEN-78)
POTASSIUM IODATES
  analysis for iodine as iodide, potentiometric, 25:57314
  effects on active transport of iodine-131 in respiratory tract of guinea pigs and rats, 22:431
  effects on γ-irradiated bacterial spores, inhibitory, 25:37915
  effects on γ-radioinduced inactivation of Bacillus cereus spores, potentiating, 25:35264
  effects on iodine-131 volatility in aqueous sodium iodide solutions, 24:2256(T) (ORNL-tr-1660)
  effects on radiosensitivity of transforming DNA of Bacillus subtilis, 24:50765
  electron capture by iodine-125 in, Moessbauer spectral studies on tellurium-125 production in, 24:36335
  neutron capture in, chemical states of iodine-128 and iodine-130 recoils from, 23:40738
  radiation effects on transfer annealing reactions in iodine-131-labeled, γ, 23:49838
  radiation effects on trivalent chromium-51-doped, conversion to chromate(VI) by uv or γ, 25:51488
  radiation effects on, chemistry of iodine-128 and -130 recoil atoms produced by neutron, 21:45145 (ORNL-4164, pp 35-45)
  radiation effects on, effects of iodine recoils on thermal annealing of proton, 23:9469
  radiation effects on, in presence of oxygen-18, production of oxygen-18-labeled products from, 25:54633(R) (ORO-3660-4)
  radiation effects on, reactions of recoils in neutron, 24:36284
  radiation effects on, recoil reactions from neutron, 24:19030
  radiation effects on, thermal and radiation annealing studies on, 24:19030
  radiation effects on, yields of recoil iodine-126 in various oxidation states from fast-neutron, 24:20834
  radioinduced toxic products of, effects of, on mutant strains of Escherichia coli, γ, 24:48525
  radiolysis of aqueous solutions of, absorption spectra of iodate radicals produced by electron pulse, 25:18448(R) (CEA-N-1369)
  radiolysis of aqueous solutions of, kinetics of electron pulse, 25:23609(R) (CEA-N-1409)
  radiolysis of aqueous solutions of, yields from γ, 25:21055
  radiolysis of aqueous solutions of, yields from γ, 25:34079(R) (NP-18683)
  radiolysis of iodate ions in crystalline, by recoil particles, yields from, 23:21735
  radiolysis of, yields in electron, 22:16589
  reactions in iodine-131-labeled, effects of heat on transfer annealing, 23:49838
  sensitizing effects of, on γ-irradiated Escherichia coli, 23:38901
POTASSIUM IODIDES
  alpha detection using thallium-activated, 21:23288
  analysis for impurities by elastic scattering of charged particles, 23:9330
  analysis of solutions of, for iodine by photon activation, 24:48
  binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
  bremsstrahlung absorption in different thicknesses of, (E), 22:9451
  bremsstrahlung absorption in single crystals of, 21:5325
  bremsstrahlung scattering at 30 MeV in, effects on absorption coefficient, (E), 21:23261
  bremsstrahlung transmission and absorption in, depth distribution of, (E/T), 25:49960
  bremsstrahlung transmission at 10 MeV, effect of crystal thickness and beam diameter on, (T), 22:21892
  corrosive effects on titanium-base alloys under potentiostatic conditions and stress, 23:36008
  crystal structure of, acoustic NMR studies of, 25:688 (COO-1700-11)
  defect-induced infrared absorption in chloride- and bromide-doped, isotope effects on, 25:12043
  density in methanol, estimation of partial molal volumes from, 24:11505 (IA-1190, pp 133-81)
  detection efficiency and scintillation response of thallium activated crystals of, for 2 to 40 keV electrons, 21:41766
  diffusion of argon in solid, 21:14881(R) (EURAEC-1650)
  diffusion of argon-39 and -41 from neutron-irradiated single crystals of, (E), 21:44184
  diffusion of rare gases in, 21:15796
  diffusion of xenon in single crystals of, effects of natural and radioinduced defects on, 25:33421
  diffusion of xenon-133 in iodine-133-doped monocrystalline, at 150 to 500°C, 24:10160(R) (ORO-3508-5)
  dislocation motion in secondary slip planes of single-crystal, 24:26331
  effects of, on light emission after pulse radiolysis of aqueous dye solutions, 21:5911
  effects on critical temperature of water, 22:25329 (ORNL-4229, pp 84-104)
  effects on growth of Sporotrichum, iodine-131 tracer study of inhibitory, 23:24566
  effects on γ radiolysis of indole-3-acetic acid, 25:10647
  effects on γ-induced decomposition of cobalthexaammine nitrate, 25:168
  effects on γ-radioinduced inactivation of Bacillus cereus spores, potentiating, 25:35264
  effects on γ-radiosensitivity of DNA, 22:45397
  effects on iodine-131 content of body and thyroid of rats, 22:19254
  effects on iodine-131 deposition in chicken egg, 21:34571
  effects on iodine-131 uptake by thyroid gland of man, 22:8458
  effects on iodine-131 uptake by thyroids of man, 21:45520
  effects on ion exchange separation of cadmium from mixtures of metals, 24:27204
  effects on isolation and decay of radioinduced carbonate and carbon dioxide anion radicals, matrix, 24:41365
  effects on kinetics of γ-radioinduced graft polymerization of poly(ethylene terephthalate) with acrylic acid or methacrylic acid, 25:46504
  effects on light and uv-induced changes in chloroplast size, 21:22778
  effects on metabolism of iodine-131-labeled thyroxine in rats, 23:2796
  effects on properties and structure of heavy water—water mixtures, emf studies on, 21:30424
  effects on properties of charcoal for retention of iodomethane, 21:27943 (TRG-Report-1300)
  effects on radiolysis of methanol, 21:45149(T) (NP-tr-1577)
  effects on radiosensitivity of transforming DNA of Bacillus subtilis, 24:50765
  effects on reactions of recoil chromium-51 in potassium chromates, 22:25398
  effects on repair of x-radioinduced single-strand breaks in DNA of Escherichia coli, 25:46719
  effects on uptake of iodine-131 and iodine-132 by human thyroid gland, 22:38340
  effects on x-radioinduced formation of trapped radicals in cellulose, EPR studies on, 21:45158
  effects on yields from γ radiolysis of iodine complex with amylose, 24:31373
  elastic constants for monocrystalline, at 300°K and 10 kbar, pressure dependence of second order, 24:14896(R) (NYO-3991-5)
  F-center spectra of, isotope splitting of, (E/T), 25:9585
  infrared absorption by, temperature dependence of impurity-induced, (E), 21:21054 (NYO-2391-19)
  intermolecular frequencies of water molecules in aqueous solutions of, slow neutron inelastic scattering measurements on, 23:6093(R) (NP-17690)
  iodine-128 production in, by neutron irradiation, method for, 24:16611
  iodine-131 exchange between 1-iodo-2,4-dinitrobenzene or 1-iodo-2,4-dinitronaphthalene, effects of acetone—water solvent on kinetics of, 21:40871
  iodine-131 exchange between 1-iodo-2,4-dinitronaphthalene or 1-iodo-2,4-dinitrobenzene and, effects of solvent on, 22:10244
  iodine-131 exchange between diiodomethane and, activation and kinetic parameters of, 23:49783
  iodine-131 exchange between ethanol solutions of iodomethane and, at 35°C, reaction order of components in, 25:12996
  iodine-131 exchange between iodohippuric acid and, 22:25341
  iodine-131 exchange between iodomethane and, 24:41267
  iodine-131 exchange between, and aromatic iodoamino acids, 21:35944
  iodine-131 exchange between, and organic iodides in gas chromatographic columns, 21:25859
  krypton ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
  lattice resonances in silver doped crystals of, low-lying, 25:3969 (NYO-2391-121)
  lattice vibrations in, normal modes of, (E), 21:2651(R) (AECL-2612)
  luminescence of, photon- and γ-induced, 22:29560
  neutron diffusion in aqueous solutions of, (E), 21:23314 (BNL-994, pp 70-102)
  neutron reactions (n,γ) with iodine in, recoils from, 21:15929
  oxygen molecular ion (O$_2^-$) ENDOR in, 22:50225 (UR-3388-10)
  oxygen molecular-ion reorientation in paraelastic relaxation of lattice, ESR study of isotope effect in, 24:24170
  partition function ratio of isotopic, 21:1349
  photoeffect quantum yields from, (E), 22:38799
  photoelectric mechanism in crystals of, 21:29368
  photoluminescence in crystals containing alkali metal impurities, role of bound excitons in, 21:25182
  photoluminescence of thallium-activated, mechanism of, 21:25212
  photon—electron transformation in thin crystals of, 24:28430
  positron annihilation in crystals of, angular correlation of photons from, (E), 23:12529
  positron backscattering by single crystals of, effects of channeling on, (E), 25:7137
  positron backscattering from single crystals of, channeling and temperature effects on, 25:52916
  proton channeling at 1.5 MeV in single crystals of, 24:21877
  proton channeling at 75 keV in, characteristic x-ray production study of, 24:35536
  radiation effects on electrophoretic mobility of sols of, 21:40905
  radiation effects on europium color centers in, (E/T), 24:40180
  radiation effects on single crystals of, reactions of recoil iodine isotopes in neutron, 25:32013 (AERE-R-5842)
  radiation effects on single crystals of, role of iodine atom ejection in neutron, 21:15929
  radiation effects on solutions of, in liquid sulfur dioxide, gamma, 21:3104
  radiation effects on stored energy in crystals of, kinetics of proton, (E), 21:21076
  radiation effects on, oxidation of negative iodine ions from 400-keV electron and gamma, 22:2435
  radioinduced activator centers in europium-activated crystals of, structure of x, 22:9442
  radioinduced color centers in crystals of, optical spectral studies of pulsed electron, (E), 22:48163
  radioinduced color centers in pellets of, as function of time between pressing and irradiation, gamma, (E), 21:9658
  radioinduced color centers in, Stark effect in x-, 22:22199 (COO-1105-128)
  radioinduced defects in deformed crystals of, x, (E), 21:40072
  radioinduced defects in thallous iodide-doped, distribution of trapped electrons and holes from x, (E), 21:37551
  radioinduced defects in, slow electron, (T), 22:22240
  radioinduced exoelectron emission from thin film, x-, 24:45324
  radioinduced F center production in single crystals of, relative efficiency of uv and electron, 25:33429
  radioinduced F center production in, at 125 to 300°K, electron, (E), 23:42396
  radioinduced F centers in crystals of, kinetic storage of proton, 24:19968
  radioinduced F centers in crystals of, temperature dependence of proton, 25:11965
  radioinduced F centers in europium-activated crystals of, effects of temperature on x, 23:44522
  radioinduced F centers in single crystals of, electron range and nonuniform coloration in electron, (E/T), 24:42764
  radioinduced F centers in single crystals of, saturation of electron, 23:44534
  radioinduced F flash and luminescence in activated phosphors of, temperature dependences of, 21:29370
  radioinduced F flash and luminescence in thallium-activated crystals of, x, 21:29372
  radioinduced F$_2^+$ centers in crystals of, formation of x-, 24:42789
  radioinduced fluorescence of thallium-activated, fading of alpha and gamma, 21:12646(T) (ANL-Trans-417)
  radioinduced hole color centers in thallium-activated, capture of x-, (E), 22:5441
  radioinduced luminescence and optical burst in thallium-activated, x-, 21:7340
  radioinduced luminescence and photoluminescence in europium-activated crystals of, mechanism of x, 22:9441
  radioinduced luminescence in crystals containing alkali metal impurities, role of bound excitons in, 21:25182
  radioinduced luminescence in europium-activated, electron-capture levels from x-, (E), 25:52923

radioinduced luminescence in natural and indium-activated, decay characteristics of x, 22:26526
radioinduced luminescence in thallium-activated crystals of, at 5°K, x, (E), 21:18822
radioinduced luminescence of activated crystals of, effects of storage on, 21:29374
radioinduced luminescence of indium- and thallium-activated, electron—hole component of, 21:21061
radioinduced luminescence of indium- and thallium-activated, effects of temperature on, (E), 21:11717
radioinduced luminescence of phosphorus-activated crystals of, 21:29373
radioinduced luminescence of thallium-activated phosphors of, effects of electric fields on x, 21:29380
radioinduced luminescence of thallium-activated, relation to flash brightness, x, (E), 21:21086
radioinduced M and F centers in crystals of, laser re-excitation and decay of γ, (E/T), 25:11956
radioinduced metastable color centers in crystals of, bleaching effects on spectra of gamma, 22:20038(R) (COO-1052-9)
radioinduced oxidation in aqueous solutions in presence of thorium oxides, γ and x, 24:41337
radioinduced photoemission spectra of crystals of, electron, (E), 23:51790
radioinduced reduction of cadmium ions in crystals of, magneto-optical study of x-,, 25:56320
radioinduced scintillations in thallium-activated, rise and decay of alpha- and gamma-, 21:21063
radioinduced scintillations in thallium-activated, temperature dependence of relative quantum efficiency of F- and Tl^0-, 22:34769
radioinduced toxic products of, effects of, on mutant strains of Escherichia coli, γ, 24:48525
radioinduced V/sub K/ centers in single crystals of nitrate- and thallium-doped, EPR study of x-, 25:33430
radiolysis of aqueous, effects of potassium acid phosphate on γ, 21:19678
radiolysis of aqueous, study of absorption produced by pulse, 23:239
radiolysis of frozen aqueous solutions of, ESR study of hydrogen atoms and hydroxyl radicals from, 25:57467
radiolysis of solutions, effects of chlorate, chloride, nitrate, and sulfate ions on I_3^- yields from γ, 24:13777 (ORNL-4466, pp 62-88)
radiolysis of, yields from gamma, 21:24039
radioprotective effects of, 22:45437
radioprotective effects of, against damage in barley and rice plants grown from x-irradiated seed, 21:10992
radioprotective effects of, on man during iodine-131 diagnosis of brain tumors, 21:45695
radioprotective effects of, on metabolism of iodine-131 by thyroid of man, β and γ, 23:14129
radioprotective effects of, on rabbits, combined effects of immunization on, 22:49382
reaction of, with hydrogen peroxide, determination of molybdenum by its catalytic effect on, 21:5768(T) (ORNL-tr-1468)
reactions of, with chlorine oxide in aqueous solutions, 21:14183(R) (ORO-2858-18)
reactions with heptavalent neptunium in alkaline solutions, 24:9318
recombination luminescence mechanism in europium-doped crystals of, 25:7459
scintillation process in thallium-doped crystals of, photon studies of electron/hole- and exciton-induced, 23:45519
scintillation yields in alpha, deuteron, and electron bombardment of thallium-activated, (E), 21:364
solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
spectra of silver-doped, silver isotope effects on far infrared, (E/T), 22:24432
spectra of, effects of heavy water as solvent on far-infrared, 22:16520
spectra of, isotope splitting of F-center in-gap mode of absorption, 24:48007 (NYO-2391-115)
spectra of, production and measurement of F' band in, 21:44153 (IS-T-179)
sputtering by electrons at low energies and by ultraviolet light, (E/T), 24:42804
temperature dependence of the brightness of x-ray luminescence and optical flash in activated phosphors of, (E), 22:3188
thermal diffusion of, in normal and heavy water, 21:8290
thermodynamic properties of, in aqueous and nonaqueous solutions at 25°C, 21:25822(R) (TID-22366)
use for treatment of radiation sickness, 24:41947
use with barium sulfate gelatin in contrast medium for postmortem angiography, 21:26509
viscosity of aqueous solutions of, effects of deuterium on, 24:41279
volume changes under high pressure, use in calibrating metallurgical equipment, 21:45279 (BNWL-465)
xenon ion reactions up to 85 keV with, inert gas diffusion and release in, (E), 22:17774
CsI—KI—LiBr—LiCl—LiI, phase studies on, 24:43991 (ANL-7650, pp 41-66)
CsI—KI—LiBr—LiCl—LiI, properties of eutectics of, for use as paste electrolytes, 25:35275(R) (ANL-7777)
CsI—KI—LiBr—LiI, phase studies on, 24:43991 (ANL-7650, pp 41-66)
H_2SO_4—KI, separation of antimony from, by solvent extraction using benzene, 22:16658
HgI_2—KI, Raman spectrum at 130°C, 22:36774 (ANL-7450, pp 90-104)
HgI_2—KI, spectrum at 130°C, Raman, 22:52556 (ANL-7425, pp 172-89)
HgI_2—KI—LiI, spectrum of molten, Raman, 24:1309 (ANL-7575, pp 136-69)
I^-—$KHSO_4$—KI, radiolysis of deaerated solutions of, at 20°C, mechanism and yields from γ, 23:47479
I^-—$KHSO_4$—KI—K_2SO_4, radiolysis of deaerated solutions of, at 20°C, mechanism and yields from γ, 23:47479
KBr—KI, spectra of mixed crystals of, far-infrared absorption, 22:3168 (NYO-2391-64)
KH_2PO_4—KI, use as chemical dosimeter for electron and gamma radiation, 22:2435
KI—KNO_3—$NaNO_3$, corrosive effects on Zircaloy-2 and Zircaloy-4 at 300°C, 25:24532 (AECL-3799)
KI—Li_2BeF_4, miscibility in, 24:182 (ORNL-4437, pp 98-106)
KI—Li_2BeF_4, phase diagrams of, 23:45182 (ORNL-4396, pp 129-209)
KI—LiCl—LiI, phase studies, 24:1309 (ANL-7575, pp 136-69)
KI—LiCl—LiI, phase studies, (E), 23:27409 (ANL-7550, pp 74-92)
KI—LiI, phase studies on, 24:43991 (ANL-7650, pp 41-66)
KI—LiI, spectra of nickel(II) light absorbing centers in, 23:8323 (ORNL-4370, pp 39-44)
KI—methanol, radiolysis of, formation of oxidizing radicals in electron-pulse, 23:19794
KI—MgI_2, spectra at 400°C, Raman, 25:58387(R) (ANL-7823)
KI—NaF, effects on direct spectrographic determination of trace amounts of metals in tungsten trioxide, 25:57335
KI—$NaNO_3$, radiolysis of, role of excited water in yields of radicals from γ, 24:46274
KI—TlI, radioinduced thallium atoms in crystals of, $^2P(^1/_2)$ to $^2P(^3/_2)$ transitions of gamma, (E), 21:16977
KI—$ZnCl_2$, structure of molten, Raman spectral studies on, 21:23861(R) (ORO-2073-12)
KI—ZnI_2, structure of molten, Raman spectral studies on, 21:23861(R) (ORO-2073-12)
POTASSIUM IONS
channeling in potassium chloride and sodium chloride crystals, computer simulation studies of, 22:37033
channeling mechanism of potassium-42 at 0.1 to 1.0 MeV in oriented tungsten single crystals, (E), 21:40090
chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
desorption from molybdenum, tantalum, and tungsten surfaces, calculation of heat of, 24:51158
diffusion in nitrogen and hydrogen at low energies, drift velocities from, (E), 22:29293
diffusion through membranes of irradiated ascites carcinoma cells to, effects of chemicals on, 23:50817
drift velocity in hydrogen at 293°K, (E), 21:39808
effects of 3-keV, on electric conductivity of germanium crystals, (E), 21:23283
effects of 6-keV, on angular distribution of secondary electron emission from germanium single crystal, 23:30622
effects on anodic dissolution of polycrystalline beryllium in aqueous solutions, 23:22470
effects on cathodoluminescence spectra of silicon carbide crystals, (E), 21:18811
effects on cesium-137 absorption from soils by plants, 24:48372
effects on determination of phosphates in solutions by precipitation with ferric hydroxide, 23:47372
effects on electric conductivity of germanium crystals, 21:23284
effects on electric conductivity of ion-exchange membranes, 21:45128
effects on electric conductivity of semiconductors, (E), 23:44520
effects on electron-excited luminescence of silicon carbide crystals at 2 to 11 keV, (E), 21:827
effects on iron-59 uptake by reticulocytes in rabbits, 24:39423
effects on NMR spectra of bromine-81 and iodine-127 in aqueous solutions, 23:6117
effects on radiochemical stability of water-saturated resins, 23:31391
effects on radioisotope sorption by plants, 24:41865
effects on reticulo-endothelial system of x-irradiated mice, combined effects of penicillins on, 23:2921
effects on sodium-22 transport in frog muscle, effects of ouabain on, 23:26653
effects on volatility of carrier-free cesium-137 in ashing of biological materials, 23:28813
effects on water vapor at 30, 60, and 500 keV, emission and ESR spectral studies on products from, 24:11606
electron reaction with, ionization cross section for $K^+ + e \rightarrow K^{2+} + 2e$ to 3.0 keV, 22:36721
electron reactions with, calculation of ionization cross sections for, 23:41952
electron reactions with, model potentials for, 25:58772
electron reactions with, semiclassical calculation of cross sections for double ionization in, 25:52663
energy levels of, nonadiabatic corrections to, 22:9007
energy-level transition probabilities for K III through K XIV, critical compilation of data on, 24:6348 (NSRDS-NBS-22(Vol.2))
Hartree—Fock self-consistent field calculations for, 21:31228
implantation in germanium and silicon, for fabrication of radiation detectors, 22:40387
mobility in cation-exchange membrane, 23:9527
mobility in gaseous hydrogen, 22:38791
mobility in hydrogen, (E), 23:39320
motion in potassium plasma, in electric fields, 22:52807
photon reactions with, relative intensities of x-ray satellites produced in, (T), 21:22981
radiation effects on content of, in aqueous and vitreous fluids in eyes of rabbits, laser, 24:46584
radiation effects on content of, in brain of rabbits, 23:43696
radiation effects on content of, in necrotic heart, cobalt-60 γ, 23:50336
radiation effects on flux of, in cultured sciatic nerve membranes from toads, effects of electrical stimulation on x, 23:43686(R) (ORO-3270-5)
radiation effects on redistribution of, in eggs of Misgurnus fossilis, x, 23:45670
radiative association in the ionosphere, (T), 22:13328
radii in fluorides and oxides, 24:188
range of channeled, in tungsten single crystals, temperature effects on maximum, (E), 22:26478
ranges in gold above 100 keV, measurement using chemical film technique, 22:26223
reactions of meteoric, with oxygen in E region, (T), 23:42077
reactions with alkali metal vapor and inert gases, charge exchange cross sections for, (E), 23:46246
reactions with argon and neon at 20 to 155 keV of K^{2+}, cross sections for electron capture in, (E), 24:21601
reactions with argon at keV energies and large angles, inelastic energy losses in, (E), 25:24889
reactions with argon at keV energies, energy loss distributions and inner-shell excitation in, (E), 23:36517
reactions with argon, absolute cross sections for excitation of K II resonance lines in, (E), 24:21600
reactions with argon, helium, potassium vapor, neon, and sodium vapor at 20 to 155 keV, cross sections for electron loss in, (E), 24:21601
reactions with cadmium, celluloid, magnesium, and silver targets at 20 to 150 keV, charge composition from, 21:26985
reactions with carbon foils at 1 to 20 keV, energy loss and angular scattering in, (E), 25:16760
reactions with copper at 6 to 14 keV, computer calculations of ion ranges and energy spectra of transmitted ions in, 25:40349
reactions with deuterium and hydrogen molecules up to 50 eV, vibrational excitation and dissociation in, (E), 25:35884
reactions with deuterium and hydrogen molecules, dissociation and vibrational excitation measurements on collision induced, 23:106 (ORNL-4306, pp 131-73)
reactions with deuterium and hydrogen molecules, time-of-flight measurements of inelastic energy losses in, 22:47825
reactions with deuterium molecules, reaction rate determination from ion mobility measurements, 22:41376
reactions with helium at 0.5 to 34 keV, absolute excitation functions for K II spectral lines in, (E), 24:21604
reactions with helium atoms at 0.8 to 9.0 keV, excitation of K II resonance lines in, (E), 22:50038
reactions with hydrogen atoms in γ-irradiated barium sulfate, ESR study of, 23:6151
reactions with hydrogen molecules, reaction rate determination from positive ion mobility measurements, 22:41376
reactions with molecular nitrogen, transfer of rotational and vibrational energies in, (E), 22:21895
reactions with molybdenum at 1 keV, dependence on incidence angle of energy spectra of secondary ions from, (E), 23:30297(T) (AD-681734)
reactions with molybdenum at 300 to 2800 eV, secondary emission of molybdenum ions in sputtering, 24:12628
reactions with molybdenum—tungsten alloys, secondary ion emission from, 23:3276
reactions with neon up to 30 keV, absolute excitation functions for K II spectra produced in, (E), 25:2911
reactions with nitrogen molecules at 30 keV to 2 MeV, cross sections for excitation of N_2^+ 3914-A radiation in, (E), 25:43151
reactions with nitrogen molecules, transfer of rotational and vibrational energies in, (E), 23:16633(T) (SC-T-69-1007)
reactions with oxygen atoms at 30 keV to 2 MeV, cross sections for electron capture and loss in, (E), 25:14042
reactions with oxygen atoms at 30 keV to 2 MeV, cross sections for electron capture and loss in, (E), 25:52675
reactions with potassium at 10 to 200 eV, charge-exchange cross sections for, (E), 21:18459
reactions with potassium atoms at 10 to 500 eV, total cross sections for resonant charge exchange in, (E), 22:47826
reactions with potassium atoms of negative, cross sections for resonant charge exchange in, (T), 24:1282
reactions with potassium atoms, resonant charge exchange cross sections for, (E), 24:26185
reactions with potassium bromide and potassium chloride single crystals, temperature dependence of electron emission from, (E), 21:37597
reactions with potassium, charge exchange cross sections for, (E/T), 23:8471
reactions with potassium, charge-exchange cross sections for, (T), 25:43157
reactions with potassium, impact-parameter calculations of oscillations in charge-transfer cross sections for, 24:12646
reactions with rare gases at 1 to 3 keV, energy-loss study of ionization processes in, 25:24915
reactions with rare gases up to 12 keV, cross sections for excitation of resonance lines in, (E), 24:10380
reactions with tungsten, angular and energy distribution of secondary potassium ions from, (E/T), 23:3274
reactions with tungsten, sputtering of secondary tungsten ions from, 25:55819
scattering by argon at 12 to 100 keV, relation between inelastic energy values and cross sections for, (E/T), 23:5217
scattering by argon at 150 to 4000 eV, total cross sections for elastic, (E), 23:44176
scattering by molybdenum and tungsten single crystals at 100 to 260 eV, (E/T), 21:23282
scattering by molybdenum monocrystals at 0.3 to 4 keV, coefficients for, 22:5128
scattering by polycrystals and single crystals at 0.2 to 4 keV, (E), 23:44527
scattering on molybdenum monocrystals, energy spectra of secondary ions from, (E/T), 22:21894
sorption on molybdenum surfaces subjected to potassium atomic beams, (E), 22:38746
spectra in planetary nebulae, emissivities for, (E), 24:35045

spectra of highly ionized, resonance lines in, (E), 21:39818
spectra of K XI, XII, and XII, emission, (E), 21:43790
spectra of K XVI, intercombination-line oscillator strengths in, (T), 21:26992
spectra of, bibliography on analyses of optical, 24:44991 (NBS-SPEC. PUBL-306-1)
spectra of, tables of lines of emission, 23:30310
transport in ocular lens, effects of chemical and electric potential on kinetics of, 24:16968(R) (COO-2012-4)

POTASSIUM IRIDIUM CHLORIDES
analysis of neutron-irradiated, for radioactive iridium compounds by chromatographic and electrophoretic methods, 22:33400
radiation effects from (n,γ) reaction in crystals and solutions of, 23:9449
radiation effects on chemical properties of crystals of, γ, 23:9464
radiation effects on crystals of, mechanism of thermal annealing of neutron, 24:38940

POTASSIUM IRON FERROCYANIDES
see also Prussian Blue
structure of, electron-graphic and electron-microscopic studies on, 22:35825

POTASSIUM IRON FLUORIDES
iron-57 Moessbauer effect in, relaxation and exchange induced quadrupole effects in, (E), 22:1361
iron-57 Moessbauer high-pressure isomer shift measurements in $KFeF_3$, 22:17803

POTASSIUM IRON OXALATES
Moessbauer-spectral study of cobalt-57 decay effects on valence and structure of, 25:56381
radiation effects on, yields of divalent and trivalent iron-59 recoil atoms from thermal neutron, 24:48120
radiolysis of, spectral studies on yields from γ, 24:2254

POTASSIUM IRON SULFATES
crystal field splitting in Tutton salt, from Moessbauer studies, (E), 22:26459

POTASSIUM ISOTOPES
abundance in Apollo 11 lunar samples, (E), 24:21525
content in geologic materials of Africa and North and South America, use in age estimation, 23:7628(R) (MIT-1381-16)
determination in solid potassium samples, ion source for, 23:6074
effects of stable, on cesium-137 content of freshwater fish, 23:22248(T) (AEC-tr-6944, pp 227-34)
effects on countercurrent electromigration of lithium cations in halides, 25:44361
effects on molecular crosslinking in organisms, relation of, to aging, 22:49193
energy-level parameters for, data compilation for, (E), 22:9819
exchange on Zeolith A ion exchangers, 21:23867
isotope shift for, measurement using meson (μ) K transition, (E), 21:29995
monitoring radioactive, in Adriatic and Ligurian Seas during 1961 to 1968, 24:34210
nuclear reaction and level parameters for, data compilation on, 22:29977
production by cosmic radiation during space flight, 22:19400(R) (BNWL-531-1)
production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
radioactivity standards of, users' guides for, 25:29174
separation by electromigration in cation exchange membrane, 22:42842
separation by thermotransport in liquid potassium, 23:7603
separation of, by molecular distillation, efficiency of 15-stage cascade prototype tray in, 21:6146 (K-1688)
separation of, by thermotransport in vertical capillaries containing liquid metal, 21:3217

POTASSIUM ISOTOPES K-36
beta decay of, half-life and log-ft values for, (E), 25:43875
decay of, argon-36 analog energy levels from, (E), 21:13827
energy levels from argon-36 (He-3,t) reactions, (E), 21:11991(R) (UCOL-535-561)
mass excess from argon-36 (p,n) reactions, (E), 25:43875
nuclear mass excess from reaction Q-value measurements, (E), 22:9845

POTASSIUM ISOTOPES K-37
beta decay in polorized, asymmetry in, (E), 23:49376
beta decay of, branching ratios, γ spectra, and half-life for, (E), 25:45984
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy level at 1.380 MeV from calcium-40 (p,α) reactions, lifetime and magnetic moment of, (E), 25:48061
energy level at 2750 keV, branching ratio and spin of, (E), 22:3671
energy level of, position of T = 3/2, (E), 22:53124
energy levels and mass from potassium-39 (p,t) reactions at 45 MeV, (E), 22:20555
energy levels at 2.750 MeV from argon-36 (p,γ) reactions, lifetime of, (E), 25:17852
energy levels from argon-36 (d,n) reactions, (E), 24:52502
energy levels from argon-36 (He-3,d) reactions, (E), 21:11991(R) (UCOL-535-561)
energy levels from proton elastic and inelastic scattering by argon-36, spins, parities, and widths of, (E), 25:3641
energy levels of, 1f(7/2) and 2p(3/2), (T), 22:1631
energy levels of, lifetimes and magnetic moments for $7/2^-$, (E), 25:12429 (COO-7-565)
energy levels of, T = 3/2 quartet, (E), 22:53129
energy levels of, T = 3/2 quartet, (E), 21:46670 (UCRL-17783)
energy-level spins, parities, and widths from argon-36 (d,n), (He-3,d), (p,γ), (p,p), and (p,p'γ) reactions and calcium-40 (p,α) reactions, (E), 21:33900 (AD-654156)
energy-level transitions in, shell-model calculation of radiative widths and multipole mixing ratios for, (T), 24:43256
nuclear magnetic moment and spin of polarized, (E), 23:49376
nuclear magnetic moment, (E), 22:32519
nuclear magnetic moment, hfs separation, and hfs anomaly from beta decay of, (E/T), 25:38929
optical pumping of, 23:49376
scattering by rubidium-87, probabilities for spin-exchange, (T), 25:38929
spectra of, hyperfine splitting in, (E), 22:32519

POTASSIUM ISOTOPES K-38
beta decay of, γ spectra for, (E), 23:7256
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy level at 1695 keV from decay of calcium-38, spin—parity assignment for, (E), 23:7256
energy levels from calcium-38 decay, (E), 24:43214
energy levels from calcium-38 decay, spin—parity assignments for, (E), 24:13336
energy levels from calcium-40 (d,α) reactions, spin-parity assignments for, (E), 25:38953
energy levels from chlorine-35 (α,n) reactions, lifetime of, (E), 25:20349
energy levels from potassium-39 (d,t) reactions, spectroscopic factors for, (E), 25:50707
energy levels from potassium-39 (d,t) reactions, spectroscopic factors and spin—parity assignments for, (E), 24:10956
energy levels from potassium-39 (d,t) reactions, spin—parity assignments for, (E), 23:17103(R) (ANL-7481)
energy levels from potassium-39 (He-3,α) reactions, spins, isospins, and parities of, (E), 25:34022
energy levels from potassium-39 (He-3,α) reactions, lifetime of, (E), 25:20349
energy levels from potassium-39 (p,d) reactions, spectroscopic factors for, (E), 23:46952
energy levels of, calculations using shell model with jj-coupling approximation, (T), 22:27241
energy levels of, shell-model calculation of properties using inert silicon-28 core and modified surface delta interaction, (T), 23:8970
energy levels of, shell-model calculation using modified surface delta interaction with tensor force, (T), 25:17779
energy levels of, shell-model description using Tabakin interaction and modified surface delta interaction, (T), 23:19243
gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
half-life, (E), 24:49848
production by (γ,n) reaction of potassium-39 during high-energy irradiation of foods, 21:30947
production in alpha reactions with titanium-50, (E), 22:11956
production of isomeric, by argon-40 (p,3n) and chlorine-37 (He-3,2n) reactions, (E/T), 21:31710 (RHEL/R-136, pp 52-88)
production of isomeric, in argon-40 (p,3n) and chlorine-37 (He-3,2n) reactions, (E), 21:13841

POTASSIUM ISOTOPES K-39
abundance ratio to potassium-41 in potassium metal, mass-spectrometric determination of, 22:18723
alpha differential elastic scattering cross section at 22 to 29 MeV, optical-model analysis of angular distributions for, (E/T), 22:20499 (INP-577/PL)
alpha differential elastic scattering cross section at 22 to 29 MeV, resonance in, (E), 22:27062
alpha elastic scattering at 10 MeV, optical-model analysis of, (E), 25:45973
alpha elastic scattering at 22 to 28 MeV, angular distributions for, (E), 23:7244 (INP-613)
alpha elastic scattering at 22 to 28 MeV, angular distributions for, (E), 23:19224
alpha elastic scattering at 22 to 28 MeV, glory effect in optical model analysis of, (E/T), 23:19222
alpha elastic scattering at 22 to 28 MeV, optical model analysis of, (E/T), 23:19201 (INP-614)
alpha elastic scattering at 24.1 MeV, optical-model analysis with l-dependent absorption of angular distributions from, 25:5665
alpha inelastic scattering at 42 MeV, angular distributions for, (E/T), 22:44668
alpha reactions (α,d) and (α,t) at 31 MeV, angular distributions for, (E), 22:32574 (MIT-2098-422, pp 95-105)
alpha reactions (α,p) at 10 MeV, Hauser—Feshbach analysis of angular distributions and spectra from, (E/T), 25:45973
alpha reactions (α,p) at 7.5, 9.0, and 10.6 MeV, γ Doppler shift attenuation measurements on, (E), 23:10981
content in rocks, 21:14315
content of cells and extracellular fluid in relation to potassium-41, 22:28311
determination in mixed spikes with potassium-40 and potassium-41, method for correction for isotopic fractionation in, 25:48460
determination of abundance of, relative to potassium-41 by neutron activation, 25:54492
deuteron differential inelastic scattering cross sections at 15 MeV, angular distributions for, (E), 22:35252
deuteron reactions (d,α) at 3 to 4 MeV, (E), 21:2701
deuteron reactions (d,α) at 4 to 5.5 MeV, fluctuation and statistical analysis of cross sections for, (E/T), 24:3891
deuteron reactions (d,α) at 4.5 to 5.3 MeV, angular distributions and excitation functions for, (E), 22:26932(R) (NP-17434)
deuteron reactions (d,α) at 4.55 to 5.32 MeV, statistical analysis of cross sections for, (E), 22:41992
deuteron reactions (d,α) at 4.9 to 5.3 MeV, differential cross sections and α spectra for, (E), 22:11948(R) (NP-17216)
deuteron reactions (d,He-3) at 28.9 MeV, Q-value and differential cross section for, (E), 24:20379
deuteron reactions (d,He-3) at 34.5 MeV, angular distributions for, (E), 22:35292 (ORNL-4217, pp 1-81)
deuteron reactions (d,He-3) at 34.5 MeV, cross sections and Q-value for, (E), 22:50584
deuteron reactions (d,He-3) with, angular distributions for, (E), 23:17103(R) (ANL-7481)
deuteron reactions (d,Li-6) at 50 MeV, lithium-6 spectra and angular distributions for, (E), 25:9978(R) (ORO-3398-26)
deuteron reactions (d,n) at 2.9 to 6.2 MeV, differential cross sections for, (E), 21:42594
deuteron reactions (d,n) at 4.7 MeV, neutron time-of-flight spectra from, (E), 25:28230
deuteron reactions (d,n) at 6 MeV, angular distributions for, (E), 23:30967
deuteron reactions (d,pγ) at 3.5 and 3.7 MeV, coincidence measurements on, 25:17776
deuteron reactions (d,t) at 23 MeV, DWBA analysis of, (E/T), 24:10956
deuteron reactions (d,t) with, angular distributions for, (E), 23:17103(R) (ANL-7481)
effects on electromigration of ions in molten lithium sulfate—potassium sulfate mixtures, 23:4609
effects on F-center spectra of potassium bromide and iodide, 25:9585
electron elastic and inelastic scattering by, cross sections for, 23:42876
electron elastic scattering at 500 MeV, cross section for, 25:48047
electron inelastic scattering at 60 MeV, angular distributions for, (E), 24:22120
electronic stopping cross sections in thin carbon films at keV energies, (E), 21:16814
energy level at 2817 keV from proton inelastic scattering, lifetime measurement using p—γ delayed coincidence method, (E), 23:28247
energy level at 2818 keV, lifetime of, (E), 24:43243
energy level transitions in, second-order corrections to matrix elements for, (T), 23:25891
energy levels at 2.53, 2.82, and 3.02 MeV, lifetimes of, (E), 23:40015
energy levels from alpha inelastic scattering at 42 MeV, spins of, (E), 21:38377(R) (PUC-937-260)
energy levels from alpha inelastic scattering, (E), 22:26929(R) (COO-1420-139)
energy levels from argon-38 (d,n) reactions, (E), 24:52502
energy levels from argon-38 (p,γ) reactions, (E), 25:5631
energy levels from argon-38 (p,γ) reactions, lifetimes of, (E), 25:17852
energy levels from α inelastic scattering, spin-parity assignments for, (E/T), 22:44668
energy levels from calcium-40 (γ,p) reactions, spin—parity assignments for, (E), 23:13215
energy levels from calcium-40 (n,d) reactions, (E), 22:5798
energy levels from deuteron inelastic scattering, collective core excitation in low-lying, (E), 22:35252
energy levels from electron scattering, 23:42876
energy levels from μ-meson capture by calcium-40, spin—parity assignments for, (E), 23:32920
energy levels from neutron inelastic scattering, spin—parity assignments for, (E), 25:17814
energy levels from proton inelastic scattering at 7.12 to 8.51 MeV and calcium-42 (p,α) reactions at 10.6 to 11.1 MeV, (E), 22:15986
energy levels from proton inelastic scattering, lifetimes for, (E), 25:43861
energy levels of, 1f(7/2) and 2p(3/2), (T), 22:1631
energy levels of, atomic beam resonance measurement of g, factors for, 21:20779
energy levels of, calculations using random phase approximation, (T), 23:25896
energy levels of, configuration mixing in shell-model calculations for, (T), 23:30982
energy levels of, electronic g factors for, 22:9056
energy levels of, lifetimes and transition strengths for, (E), 25:43856
energy levels of, shell-model calculations of negative-parity, (T), 24:22118
energy levels with non-normal parity in, calculation using extended core-particle coupling model, (T), 24:30742
energy-level decay and lifetimes in, d/sub 3/2/, (E), 24:52529
energy-level transitions from proton inelastic scattering, attenuation factors and mixing ratios for, (E), 25:43861
energy-level transitions in rotating magnetic field, (E), 24:37209
energy-level transitions in, calculation of effective charge using Rayleigh Schroedinger perturbation theory, (T), 24:38118
energy-level transitions in, strength of electromagnetic, (E), 24:22120
exchange with potassium-42, between soil and solution, 22:42662
helium reactions (He-3,d) with, angular distributions for, (E), 21:23534(R) (ANL-7246)
helium-3 differential elastic scattering cross section at 18 MeV, angular distribution for, (E), 22:27009
helium-3 differential inelastic scattering cross sections at 29 MeV, optical-model analysis of, (E), 23:10936(R) (COO-535-591)
helium-3 elastic scattering at 11.0 MeV, angular distributions for, (E), 25:3627
helium-3 elastic scattering at 12, 14, and 16 MeV, angular distributions for, (E), 22:9835
helium-3 elastic scattering at 29.3 MeV, angular distributions for, (E), 25:36696
helium-3 elastic scattering by, optical-model analysis of, (E), 25:17822
helium-3 reactions (He-3,α) with, angular distributions for, (E), 25:34022
helium-3 reactions (He-3,d) at 11.0 MeV, angular distributions for, (E), 25:3627

- helium-3 reactions (He-3,d) at 14 MeV, angular distributions for, (E), 22:9835
- helium-3 reactions (He-3,d) at 18 MeV, (E), 22:26980
- helium-3 reactions (He-3,d) at 18 MeV, shell model analysis of, (E/T), 23:30968
- helium-3 reactions (He-3,d) at 29 MeV, differential cross sections for, (E), 23:10936(R) (COO-535-591)
- helium-3 reactions (He-3,d) at 29 MeV, DWBA analysis of, (E/T), 24:18367(R) (COO-535-603)
- helium-3 reactions (He-3,d) at 29.3 MeV, angular distributions for, (E), 25:36696
- helium-3 reactions (He-3,d) at 29.3 MeV, DWBA analysis of angular distributions from, (E/T), 25:17822
- helium-3 reactions (He-3,d) at 30 MeV, angular distributions of differential cross sections for, (E), 22: 9800(R) (COO-535-571)
- helium-3 reactions (He-3,d) with, angular distributions for, (E), 22:39604 (CONF-670970-, pp 179-228)
- helium-3 reactions (He-3,dγ) at 18 MeV, γ spectra from, (E), 24:3878 (CEA-CONF-1335)
- helium-3 reactions (He-3,p) at 12 MeV, p—γ coincidence spectra for, (E), 23:17103(R) (ANL-7481)
- helium-3 reactions (He-3,p) at 13 MeV, calcium-41 even-parity levels from, (E), 21:44653
- helium-3 reactions (He-3,p) at 13 MeV, differential cross sections and spectra for, (E), 21:27570 (MIT-2098-299, pp 52-65)
- helium-3 reactions (He-3,p) at 13.0 MeV, calcium-41 energy levels from, (E), 21:4257
- helium-3 reactions (He-3,p) at 14 MeV, two-particle one-hole calcium-41 energy levels from, (E), 21:9994
- helium-3 reactions (He-3,p) with, angular distributions for, (E), 22:39604 (CONF-670970-, pp 179-228)
- helium-3 reactions (He-3,p) with, γ spectra from, (E), 22:20578 (WASH-1079)
- helium-3 reactions (He-3,pγ) at 12 and 13 MeV, p-γ coincidence spectra from, (E), 25:56715
- helium-3 reactions (He-3,t) at 18 MeV, differential cross sections for, (E), 22:27009
- helium-3 reactions (He-3,t) at 23 and 26 MeV with cross-shell transitions, triton spectra from, (E), 24: 22132
- hyperfine structure and lifetimes of 4^2P/sub 3/2/ and 5^2P/sub 3/2/ states of, (E), 22:41364
- hyperfine structure, (E), 21:19247
- meson (μ^-) reactions (μ^-,τp) with, probability for, (E), 25:34066
- meson (π^-) capture by, x-ray spectra from, (E), 21:3657
- motion of atoms of, in inhomogeneous magnetic fields, (E), 21:2048
- neutron capture at 14 MeV, cross sections for fast, (E/T) , 25:14920(T) (BNL-tr-380)
- neutron capture by, circular polarization measurements of gamma rays from thermal, (E), 23:46944 (RCN-105)
- neutron capture by, gamma circular polarization from thermal, (E), 24:18390
- neutron capture by, gamma spectra from thermal, (E), 24:47569
- neutron capture by, γ spectra and cross section for fast, (E), 23:23626 (NP-17794)
- neutron capture by, γ spectra from resonance and thermal, (E), 22:20576 (ORNL-TM-2159)
- neutron capture by, γ spectra from thermal, (E), 22: 26995
- neutron capture by, γ spectra from thermal, (E), 24: 47624
- neutron capture by, Moessbauer effect of 29.4 keV γ ray from thermal, (E), 22:5791
- neutron capture using polarized beams, γ circular polarization for thermal, (E), 23:13248
- neutron differential elastic scattering cross section at 14 MeV, angular distribution for, (E/T), 23:23626 (NP-17794)
- neutron differential inelastic scattering cross sections at 1.82 to 3.96 MeV, (E), 22:20556
- neutron elastic scattering at 14 MeV, optical-model analysis of differential cross sections for, (E/T), 25: 14920(T) (BNL-tr-380)
- neutron elastic scattering by, Legendre expansion coefficients of angular distributions for fast, (T), 22: 22523 (NAA-SR-12533)
- neutron inelastic scattering cross sections at 1.82 to 3.96 MeV, (E), 25:17814
- neutron reactions (n,2α) at 14 MeV, effective cross section for, (E), 22:50579
- neutron reactions (n,2n) at 13.4 to 15.0 MeV, cross sections for, (E), 22:39622
- neutron reactions (n,2n) at 14 MeV, cross sections for, (E), 21:13850
- neutron reactions (n,2n) at 14.2 MeV, activation cross section for, (E), 22:18180
- neutron reactions (n,2n) at 14.2 MeV, cross section for, (E), 22:32530
- neutron reactions (n,2n) at 14.2 MeV, statistical-model calculations of cross section for, (T), 22:20686
- neutron reactions (n,2n) at 14.7 MeV, cross sections for, (E), 21:7715
- neutron reactions (n,2n) at 14.7 MeV, isomeric cross-section ratio for, (E), 25:20312
- neutron reactions (n,2n) at 15 MeV, isomeric cross-section ratio for, (E), 23:7253
- neutron reactions (n,2n) at 15 MeV, isomeric cross-section ratio and spin cut-off parameter for, (E/T), 23: 7265
- neutron reactions (n,2n) with, analysis for role of isospin in, (E/T), 25:38966
- neutron reactions (n,α) and (n,p) at 2.46 MeV, absolute cross sections for, (E), 21:13844
- neutron reactions (n,α) and (n,p) at 4 to 8 MeV, argon-39 and chlorine-36 energy-level spins and transitions from, (E), 21:13835
- neutron reactions (n,d) at 14.4 MeV, differential cross sections for, (E), 22:5798
- neutron reactions (n,γ) with, Moessbauer measurements on potassium-40 from, 22:39204
- neutron reactions (n,p) at 5.4 and 7.0 MeV, proton—gamma coincidence spectra from, (E), 23:37146
- neutron reactions (n,p) with, production of argon-39 in, 21:25911
- neutron reactions (n,pγ) at 1.82 to 3.96 MeV, differential cross sections for, (E), 22:20556
- neutron reactions using plutonium—beryllium source, gamma production cross section for, (E), 25:5582
- nuclear charge distribution of, determination from electron scattering, (E), 25:48047
- nuclear charge distribution of, effect of proton addition on, (E/T), 21:44620
- nuclear electric quadrupole moment of, measurement using resonance scattering of light, (E), 23:30966
- nuclear magnetic dipole moment of, measurement using magnetic resonance with density corrections, (E), 22: 50563
- photon differential scattering cross sections in giant resonance region, (E), 21:17305
- photon reactions (γ,n) at 13 to 29 MeV, isomeric cross section for, (E), 24:43299
- photon reactions (γ,n) at 13 to 29 MeV, shell-model analysis of excitation functions from, (E), 24:52473 (NP-18455)
- photon reactions (γ,n) at 13.2 to 29 MeV, shell-model analysis of isomeric cross section for, (E/T), 25:48055
- photon reactions (γ,n) up to 140 MeV, cross sections for, (E), 25:5578
- photon reactions at 100 to 1300 MeV, meson mechanism of sodium-24 production in, (E), 23:40021
- photon resonance scattering by, γ spectra from, (E), 25: 38923 (JAERI-1205, pp 28-35)
- proton elastic scattering at 1.03 to 3.23 MeV, excitation functions for, (E), 25:12437
- proton elastic scattering at 10 to 12 MeV, intermediate structure in cross section for, (E), 24:43300
- proton inelastic scattering at 5.6 MeV, p—γ delayed coincidence spectra for, (E), 23:28247
- proton inelastic scattering at 6.3 to 6.7 MeV with isobaric analog excitation, excitation functions for, (E), 23:37152
- proton inelastic scattering at 8.175 MeV, level lifetimes from, (E), 23:40015
- proton reactions (p,α) and (p,γ) at 2.8 to 6.1 MeV, calcium-40 energy levels from, (E), 22:11937
- proton reactions (p,α) at 1.75 to 3.23 MeV, excitation functions and angular distributions from, (E), 25: 12437
- proton reactions (p,α) at 3 to 4 MeV, (E), 21:2701
- proton reactions (p,α) at 6.3 to 6.7 MeV with isobaric analog excitation, excitation functions for, (E), 23: 37152
- proton reactions (p,d) at 16 and 18 MeV, angular distributions for, (E), 23:46952
- proton reactions (p,γ) at 0.5 to 2.9 MeV, γ angular correlations and spectra from, (E), 22:22559 (NP-17384)
- proton reactions (p,γ) at 1 to 3 MeV, γ spectra and Q-value for, (E), 23:7264
- proton reactions (p,γ) at 1.03 to 1.75 MeV, excitation functions for, (E), 25:12437
- proton reactions (p,γ) at 1.1 to 2.1 MeV, γ triple angular correlations and polarization for, (E), 23:15404
- proton reactions (p,γ) at 1.24 to 1.58 MeV, γ spectra from, (E), 22:18123(R) (RLO-1925-11)
- proton reactions (p,γ) at 1.3 to 1.7 MeV, γ spectra from, (E), 23:1861
- proton reactions (p,γ) at 10 to 12 MeV, intermediate structure in cross section for, (E), 24:43300
- proton reactions (p,γ) at 10.4 to 14.5 MeV, gamma-ray yields from, (E), 21:31729
- proton reactions (p,γ) at 2.6 to 2.8 MeV, excitation function for, (E), 25:45996
- proton reactions (p,γ) at 2.8 to 3 MeV, excitation function for, (E), 25:34061
- proton reactions (p,γ) in giant resonance region, angular distributions and cross sections for, (E), 25:43853
- proton reactions (p,γ) with, γ spectra for, (E), 23: 28242(R) (ANU-P-434)
- proton reactions (p,γ) with, resonance γ spectra and Q-value for, (E), 23:7259
- proton reactions (p,γ) with, resonances in, (E), 22: 11948(R) (NP-17216)
- proton reactions (p,γ_0) at 2.5 to 6.0 MeV, excitation functions for, (E), 24:13321
- proton reactions (p,He-3) at 45 MeV, argon-37 mass and energy levels from, (E), 22:20555
- proton reactions (p,n) at threshold to 10.5 MeV, ground-state threshold and total cross section for, (E), 25: 5610
- proton reactions (p,t) at 45 MeV, potassium-37 mass and energy levels from, (E), 22:20555
- proton reactions (rho,γ) at 2.9 to 6.0 MeV, excitation function for, (E), 22:39617
- quadrupole moment, (E/T), 22:41364
- reactions between atoms of, cross sections for spin exchange in, (E), 22:2817
- reactions between atoms of, cross sections for spin exchange in, (E), 23:41953
- reactions with potassium-39 atoms, spin-exchange cross sections for, (E), 22:45963
- reactions with potassium-39, EPR measurements of spin-exchange cross sections for, 22:31594 (COO-1112-159)
- separation from potassium-41 by electromigration in molten potassium nitrate, 23:7602
- separation from potassium-41 by thermal diffusion in molten sulfates, 24:7491
- separation from potassium-41 by thermal diffusion in molten salts, 24:39028
- separation from potassium-41, design of separation column for countercurrent electrolytic, 24:27198
- spectra of, intensity modulation at ground-state hyperfine frequency, 22:5079
- triton reactions (t,p) at 7.5 MeV, angular distributions for, (E), 25:43845
- triton reactions (t,p) with, potassium-41 2p-1h energy levels from, (T), 21:21488

POTASSIUM ISOTOPES K-40

- abundance in Allende meteorite, (E), 25:11540
- abundance in Allende meteorite, (E), 24:4867
- abundance in Allende meteorite, (E), 24:46821
- abundance in Apollo 11 lunar samples, (E), 24:21542
- abundance in Bovedy meteorite, (E), 25:19301
- abundance in Irish meteorite of April 25, 1969, (E), 23: 39076
- abundance in iron meteorites, 21:3574
- abundance in iron meteorites and chondrites, (E), 24: 3058
- abundance in Norton County achondrite, (E), 22:13166
- abundance in three pallasites, (E), 25:2824
- abundance relative to argon-40 in eclogites, errors in age estimations from, 24:318
- abundance relative to argon-40 in Pacific Ocean phillipsites, 25:4164
- abundance relative to thorium-232 in lava of Villarrica Volcano, Chile, 24:14068
- abundance relative to uranium-238 in lava of Villarrica Volcano, Chile, 24:14068
- accumulation by molluscs in Panama following nuclear excavation of interoceanic canal, 24:39453 (BMI-171-33)
- accumulation in Pacific salmon, position of freshwater plume of the Columbia River in relation to, 23:17900 (CONF-670503-, pp 440-9)
- activity measurement of, using whole-body counter for determining total potassium content of man, 25:10920
- activity measurements in animals, preparation for, 21: 22138
- activity measurements in phantoms, optimum geometry of sodium iodide detectors for, 23:29159
- activity measurements of, in animal material, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
- activity measurements of, in feldspar, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
- beta activity of, calculation of, in leaves of trees and shrubs, 21:22465
- beta decay of, half-life for, (E), 25:38928
- beta decay of, hindrance of the unique third-forbidden branch of, (E/T), 25:5630
- beta decay of, matrix elements for unique third-forbidden, (T), 24:43145
- beta decay of, shell model calculations of matrix elements for third-forbidden, (T), 24:43470
- beta emission by naturally-occurring, dose to human bone from, 22:8552
- beta transition in, ft values for twice-forbidden, 21: 31765
- bremsstrahlung emission by, in man, gamma spectra in range of, 22:8556
- content and distribution of, in Hoytville and Mermill soils, 21:10722(R) (COO-414-4)
- content in aquatic and terrestrial environment of Cayuga Lake area, New York, 24:2318 (NYO-4039-1, pp 84-98)
- content in barnacles and mussels along East Pacific coast, 21:381
- content in Bay of Banyuls sediments, 22:35955
- content in biotites, age estimation from, 21:184
- content in California and Nevada minerals and rocks, use in age estimation, 22:6472
- content in cattle, measurement of, for determination of meatiness of cattle, 21:30817
- content in coal and uranium miners in relation to silicosis, 21:43381
- content in environs of Hanford during 1965, 21:34649 (BNWL-316(App.))
- content in fauna of Solway Firth, 21:12803 (PG-Report-752)
- content in fish and oysters from Columbia River during 1965, 21:34649 (BNWL-316(App.))
- content in fish in Ashford, N. Y. fuel reprocessing plant environs, 1965 through 1967, 24:2322
- content in human organisms, design and performance of scintillation gamma spectrometer for measuring, 21: 10671
- content in Indian milk, 22:6488
- content in lava of Villarrica Volcano, Chile, 24:14068
- content in malnourished infants, use as indication of whole-body content of potassium, 21:28541
- content in man and large animals, design of 4π liquid scintillation whole-body counter for measuring, 22: 19104
- content in man, computer program for calculation of, 21:24410 (NIRS-5, pp 1-10)
- content in man, evaluation of shielded whole-body counter for measuring, 25:35183
- content in man, gamma-spectra analysis techniques for determining, 22:4458(R) (NYO-3136-4)
- content in man, use for determining lean body mass, 22: 25636
- content in man, use of whole-body counter for determining, 21:24297(R) (ORO-2401-9)
- content in man, use of whole-body counter for determining, 21:26374
- content in marine environments, 21:30775
- content in muscle of swine, use of, for determining lean body mass, 21:28393
- content in northeast Pacific Ocean from Sept. 1961 weapons tests, 22:2255
- content in pegmatites, age estimation from, 24:9517
- content in permanent snow in Soviet Union, effect of nuclear explosions on, 21:19773
- content in Rangia cuneata Gray, effects of salinity of water on, 21:41351
- content in Rhine basin mud and water, measurement of, 23:38092 (EUR-3741(Vol.1))
- content in Ribble River sediments, 21:10484
- content in Romanian environment, method for measurement of, 25:41928

content in sand and clay soils, performance of airborne gamma spectrometer system for measuring, 25:54768
content in sands and soils of south Florida, 1968 measurements of natural, 25:13107
content in sea water, measurement of, 21:8478(T) (AEC-tr-6641, pp 192-3)
content in sediments in Pacific Ocean near Columbia River estuary, 23:49963 (BNWL-1051(Pt.2), pp 40-3)
content in small animals and infants, performance and calibration of liquid scintillation detector for determining, 23:24451
content in soil and vegetation of Pelindaba, South Africa environs, 22:180 (PEL-89)
content in soil in Russia, atmospheric radiation dose from, 21:30818
content in soil, effect on gamma background counting, 21:1454 (AAEC/TM-317)
content in surface waters and precipitation in The Netherlands, 1965, 21:25997 (RA-24)
content in Tertiary flora fossils, age estimation from, 21:176
content in tissues of fresh-water fish, 21:386
content in tissues of man, whole-body counting of, 21:24290 (COO-119-235, pp 107-36)
content in volcanic rocks, use in age estimation, 22:6473
content of algae, birds, crustaceans, fish, and otters in Alaska, 25:16072(R) (BMI-171-110)
content of animals and man, use of whole-body organic scintillation detectors for determining, 23:22215
content of animals, accuracy of counters for, 23:22211
content of animals, use of crystal-type whole-body counter, calibration methods for, 23:22213
content of atmosphere in Mexico during January through June 1967, 23:43780
content of body of animals and man in relation to composition of fat and water, review of, 23:22216
content of carcassed and live sheep, accuracy of, for content of body components, 23:22208
content of cattle and man, factors affecting accuracy of whole-body counters for measuring, 23:22214
content of cattle by whole-body counting, accuracy of, in relation to other methods of lean muscle mass of carcass determination, 23:22209
content of commercial food and farm produce in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of cows, accuracy of, as heat tolerance predictor, 25:13339
content of dairy feeds in Colorado during 1967, 22:21460(R) (COO-1171-82)
content of excreta of Apollo astronauts, 24:12066(R) (BNWL-1183-1)
content of feces and urine from Apollo 12 astronauts, 24:39501(R) (BNWL-1183-4)
content of feces and urine of astronauts from Apollo 13 mission, 24:48535(R) (BNWL-1183-5)
content of feces and urine samples from astronauts during Apollo 11 space flight, 24:23191(R) (BNWL-1183-3)
content of fetal and neonatal tissues in animals and man, mechanisms of selectivity for, 22:23462
content of fish protein concentrates, 25:13394(R) (RLO-2099-1)
content of fish, plankton, sediment, soil, and water in South Africa during 1967, 23:6450 (PEL-181)
content of foods in Kiev region of Soviet Union, 25:57987
content of grain and leguminous plants, 24:6018
content of honey in Roumania, 22:15011
content of human body as measure of potassium content, effects of counter calibration on precision of, 23:22210
content of human diet on Kerala coast, India, 25:19143
content of human urine, relation of cesium-137 content to, 23:38420
content of leaves of poplar in comparison to content of alder, reed, and willow, 22:19304
content of mammals in Southeastern U.S.A, 23:18017 (CONF-670503-, pp 623-6)
content of man in Egypt in relation to whole-body content of potassium, 23:35703 (A-AC-82/G/L-1281)
content of man in Finland from natural sources, 25:18931 (NYO-3446-14, Paper 30)
content of man in relation to age, diet, and exercise regime, 25:24129 (MIT-952-7, pp 162-82)
content of man in relation to body composition, review of methodology in, 23:22204
content of man in relation to body mass, use of whole-body counters for study of, 22:38405
content of man in relation to content of cesium-137, 23:20216 (MIT-952-5(Pt.1), pp 184-99)
content of man in Soviet Union, effects of age and geography on, 25:16066(T) (AEC-tr-7214, pp 87-107)
content of man in Switzerland during 1964, effects of age, locality, and sex on, 22:21500
content of man, calibration of Liege whole-body counter for measuring, 24:544
content of man, effects of age and sex on, 22:38302
content of man, effects of body contour on automatic whole-body counting of, 25:16123
content of man, effects of body size on whole-body counting of, 23:4890
content of man, effects of diet and exercise on whole-body, 23:20216 (MIT-952-5(Pt.1), pp 184-99)
content of man, effects of muscle and nutritional diseases on whole-body, 22:10762 (MIT-952-4, pp 202-19)
content of man, effects of thyroid disease on, whole-body counting method for determining, 22:51308 (ORAU-106, pp 171-93)
content of man, effects of, on natural photon emission, 22:488 (AEEW-M-715)
content of man, measured by whole-body counting, 25:37789(R) (NYO-3446-15)
content of man, measurement of, using whole-body counters, 23:50521
content of man, methods of measuring whole-body, 22:4614
content of man, performance of gamma spectrometers for measurement of whole-body, 22:49337
content of man, use of whole-body counters to measure, 22:514
content of marine algae, fish, and invertebrates in Amchitka, Alaska, 25:16073(R) (BMI-171-113)
content of milk in California, Oregon, and Washington during 1966, 22:23518
content of milk in North and South America during 1966, 22:25850
content of milk in North and South America during 1966, 22:23522
content of milk in North and South America during 1967, 22:28523
content of milk in Oklahoma and Texas during 1966, 22:23520
content of milk, determination by gamma spectral analysis of resin columns, 23:12117
content of milk, γ spectroscopy of, 22:33835
content of mule deer at Nevada Test Site during 1969, 24:48467(R) (SWRHL-102-r)
content of muscle samples from deer in Southeast USA during 1969, 25:18935(R) (ORO-3905)
content of muscles of fish from Columbia River during 1967, 23:33702 (BNWL-983(App.))
content of mussels in Columbia River, 22:40614(R) (RLO-2047-2)
content of naturally occurring, in adult human population in California during 1960 to 1969 in comparison to content of cesium-137, 25:16187
content of naturally occurring, in Ribble River sediments in England, 21:10484
content of naturally-occurring, in Clinch River sediments, 21:16029 (ORNL-3721(Suppl.2B))
content of naturally-occurring, in sea water, 21:8473(T) (AEC-tr-6641, pp 7-9)
content of oysters from Willapa Bay during 1967, 23:33702 (BNWL-983(App.))
content of Pacific salmon, 23:45725
content of plankton and water in Adriatic Sea and Ligurian Sea during 1960 to 1968, 23:29484
content of plants used for drugs, 22:2490
content of reindeer-breeding personnel in Sweden from 1961 to 1966, effects of fallout on, 23:38562
content of seafood and seawater from British coastal waters during 1968, 24:21099 (FRL-5)
content of thyroid glands in human population of Marshall Islands exposed to fallout during 1954, 22:43360
content of upland game birds and waterfowl sampled in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of vegetables in USSR, 22:43326
content of water supplies in California during 1966 to 1967, fallout, 23:12081
content of water, use of lithium fluoride dosimeters for measuring activity of, 24:707 (RLO-2047-5, App. E)
content of wine in Transylvania, 25:26618
content of, in soils, effects of forest canopy trees on, 21:10722(R) (COO-414-4)
content, in Japanese soils from, measurement of, 21:45244
counting of, for determination of potassium in fertilizers and solid potassium salts, 21:8205
cycling in lichen communities of Alaska during 1964 to 1969, effects of seasons on, 25:37751 (COO-2122-5)
decay constant of, effects on analysis of geochronometric data, 25:21179
decay in seawater, production of hydrated electrons by, 23:26272
decay of, argon-40 formation in, 21:138
decay of, gamma spectra from, (E), 25:3694
decay rate constancy of, 24:44109
decay scheme and half-life of, for use in geologic age estimations, 23:49941
decay scheme from potassium-39 (n,γ) reactions, (E), 24:47569
detection of natural, in liver and spleen of man, autoradiographic method for, 21:13051
determination by β counting using G-M and proportional detectors, efficiency curves for, 25:4029 (CISE-N-119)
determination by radiometric method, 25:46443
determination by radiometric methods, 22:42608
determination by whole body counting, regression analysis of γ spectra in, 24:87
determination in animals, design of whole-body scintillation counter for, 22:28130(P)
determination in biological materials, 22:42608
determination in cattle, estimation of lean-body mass from whole-body, 21:32116
determination in hardware, reflective coatings, and light pipe materials of thallium-activated sodium iodide crystal assemblies of gamma spectrometers, 23:11444 (BNWL-481-2, pp 1-126)
determination in incinerator ash by gamma spectrometry, 24:38764
determination in infants, design of 4π plastic scintillation whole-body counter for, 22:36074
determination in iron meteorites, (E), 22:21797
determination in iron meteorites, (E), 22:7082
determination in liquids, applicability and sensitivity of G—M detectors for, 22:19116
determination in liver tissue in salmon by neutron activation and γ-γ coincidence methods, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination in lunar dust and rocks from Apollo 11 by γ spectrometry, 24:20724
determination in lunar materials by γ spectrometry, 24:31252
determination in man using whole-body liquid scintillation detector, 22:14758
determination in meteorites, (E), 22:7081
determination in meteorites, development of large thallium-activated sodium iodide γ spectrometer for, 23:11444 (BNWL-481-2, pp 1-126)
determination in mixed spikes with potassium-39 and potassium-41, method for correction for isotopic fractionation in, 25:48460
determination in open water reservoirs, 21:28085
determination in oysters, spectrophotometric, 22:50913
determination in rocks and minerals by gamma spectroscopy, 23:35020
determination in Saint Severin meteorite, (E), 22:7080
determination in sediments and water in Gironde estuary by γ spectrometry, 24:2137
determination in soil samples in Japan, development in methods for, 23:17346 (JAERI-5017, pp 131-9)
determination in urine specimen from Apollo 14 mission, activation, 25:48461(R) (BNWL-1183-9)
determination in water by beta counting using Cherenkov effect and liquid scintillation counters, 24:2142
determination of chemical and physical forms of, in Columbia River during Hanford reactor shutdown, ion exchange studies on, 23:11444 (BNWL-481-2, pp 1-126)
determination of cosmic-ray-produced, in iron meteorites by chemical separation and isotopic dilution, 23:11430
determination of distribution of, in salmon tissues by γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of fallout, by γ spectrometry, computer method for use in, 24:38740
determination of, in cattle by whole body counting, 21:1648
determination of, in freshly fallen meteorites, radiometric, 21:12439(R) (COO-1167-1)
determination of, in plants, soil, and water in environs of Safari I during 1965, 21:10878(R) (PEL-123)
deuteron differential inelastic scattering cross sections at 15 MeV, angular distributions for, (E), 22:35252
distribution and transport in aquatic and terrestrial ecosystems, 25:21643
distribution in environment of man, review of, 21:26391
distribution in grape tissues and products in France, fallout, 24:9808
distribution in natural potassium compounds with considerable thickness of stratum, method for determining, 23:11894
distribution in oak trunk following uptake from soil, 25:46808 (NYO-3756-7)
distribution in Olympic National Park environment, 23:11444 (BNWL-481-2, pp 1-126)
distribution in Salton Sea ecosystem, 25:49125
distribution in soil profiles, natural, 25:21643
distribution in surface organic layers and topsoils in Great Smoky Mountain National Park, Sept. 1961, effects of precipitation and vegetation on, 24:36387
effects on detection of radioisotopes in seawater, 22:2256
effects on man following ingestion in food and water, 25:44949
effects on man, pathological, 24:48530
effects on measurement of specimens in biosphere, 22:21461
effects on mice following ingestion of radioisotope-contaminated skim milk in comparison to x radiation effects, 24:32236
effects on properites of potassium compounds, radiometric studies of, 22:42608
effects on radiation body burdens of man, 22:33800 (A-AC-82/G/L-1182)
electron-capture decay energy for, (E), 22:13973
electron-capture decay of, (E), 21:27549
electron-capture decay probabilities for, (E), 22:5802
energy level at 0.029 from neutron capture, spin and parity of, (E), 24:18390
energy level at 1.64 MeV, lifetime and spin-parity assignment for, (E), 22:27043
energy level at 1644 keV from calcium-42 (p,He-3) reactions, spin and parity of, (E), 24:43200
energy level at 29.4 keV, lifetime of, (E), 23:15399
energy level of, lifetime of first-excited, (E), 24:43118(R) (ANL-7620)
energy level transitions in, second-order corrections to matrix elements for, (T), 23:25891
energy levels from argon-40 (He-3,t) reactions, 2p-2h, (E), 22:44663
energy levels from argon-40 (p,n) reactions, positive-parity, (E), 24:43223
energy levels from argon-40 (p,nγ) and chlorine-37 (α, nγ) reactions, lifetimes, spin—parity assignments, and wave functions for, (E), 25:48062
energy levels from argon-40 (p,nγ) reactions, positive-parity, (E), 23:42882
energy levels from argon-40 (p,nγ) reactions, spin-parity assignments and γ branching ratios for, (E), 24:28753
energy levels from calcium-42 (p,He-3) reactions, T = 2, (E), 24:24542
energy levels from calcium-42 (p,He-3) reactions, spin—parity assignments for, (E), 23:25853 (UCRL-18716)
energy levels from deuteron inelastic scattering, collective core excitation in low-lying, (E), 22:35252
energy levels from μ-meson capture by calcium-40, spin—parity assignments for, (E), 23:32920
energy levels from potassium-39 (d,pγ) reactions, gamma branching ratios of transitions of, 25:17776
energy levels from potassium-39 neutron capture, spin-parity assignments for, (E), 24:47624
energy levels from potassium-39 thermal neutron capture, spin—parity assignments for, (E), 23:13248
energy levels from shell-model calculations, (T), 22:7770
energy levels from, potassium-39 (n,γ) reactions, spin assignments for, (E), 23:46944 (RCN-105)
energy levels in, use of Doppler shift attenuation in gaseous and solid media for determining lifetimes of, 23:49336
energy levels of, calculations using surface delta interaction, (T), 21:15517 (CONF-660221-, pp 140-4)
energy levels of, effects of angular momentum on, (T), 22:14020
energy levels of, lifetimes of second- and third-excited, (E), 25:5649

energy-level transitions among f/sub 7/2/d/sub 3/2^{-1} states of, M1, (E), 25:14934
energy-level transitions from argon-40 (p,nγ) and chlorine-37 (α,nγ) reactions, multipole mixing and branching ratios and strengths for, (E), 25:48062
energy-level transitions from radiative pion absorption by calcium-40, strengths for, (T), 25:5793
gamma activity from, in Dosso meteorite, (E), 24:46823
gamma emission by, effects of, on tissues of seals, 22:51386
gamma emission by, use of, for estimation of whole-body potassium content of man, 22:38297
gamma emission from lunar rocks containing, (E), 21:27027
gamma emission from, detection of, in pigs for determining lean body mass, 21:28396
gamma energies of, measurements for calibration standards, (E), 22:50582
gamma energy for use as calibration standard for lithium-drifted germanium spectrometers, 21:28239
gamma radiation from, measurement of, in residential structures, 21:24411 (NIRS-5, pp 63-6)
heat production from, in Earth's core, (T), 25:40338
heat production in earth's crust by, use in age estimation, 23:9539 (UCRL-71187)
heating meteorites in early solar system by decay of, (T), 23:14522 (CEA-CONF-1066)
mass difference of 1478 +- 5 keV from argon-40, (E), 22:5817(R) (NYO-GEN-72-28)
maximum permissible levels for, in human body, discussion of, 24:48530
measurement by whole-body liquid scintillation counter, effects of sizes of containers on accuracy of, 23:22212
measurement in cattle and sheep, design of whole-body counter for, 21:22137
measurement in infants, mothers, and placentas, 23:16332 (NIRS-7, pp 69-79)
measurement using whole-body counter of Bologna, Italy, 21:26448
measurements of, in human body, use of, for establishing background levels for various body weights, 21:16357
measurements of, on normal human control subjects, 21:8793 (MIT-952-3, pp 318-33)
metabolism in buffalo, cattle, and goats in relation to heat stress, 25:52278 (A/CONF.49/P-136)
metabolism in human fetuses and pregnant females in relation to metabolism of cesium-137, 25:511
Moessbauer effect of 29.4-keV γ ray from potassium-39 thermal neutron capture, (E), 22:5791
Moessbauer measurements with, from neutron capture in potassium-39, (E), 22:39204
monitoring in environment at Pelindaba South Africa during 1966, 22:10763 (PEL-160)
monitoring in Humboldt Bay Power Reactor environs during operation and following shutdown, 24:29389 (CEX-67.6.2)
monitoring in man in Finland in 1967, whole-body, 23:33697 (SFL-A-12, pp 27-30)
monitoring in plant parts and soil, 21:22407 (EIR-103)
monitoring of plankton and water of Adriatic and Ligurian Seas during 1961 to 1968, fallout, 24:34210
monitoring of, use of whole-body counter for serial determinations in infants, 21:14636
movement of, in milk food chain, mathematical expressions for, 21:10822(R) (COO-1333-3)
neutron capture by, gamma spectra from thermal, (E), 25:31292
neutron capture by, γ singles and coincidence spectra from thermal, (E), 25:43845
neutron reactions (n,α) and (n,p) with, cross sections and Q-value for thermal, (E), 22:13973
neutron reactions (n,γ) with, transition probabilities for thermal, (E/T), 21:40400 (ZfK-Pha-24)
neutron—proton interactions in, residual, (T), 22:44648
nuclear charge distribution for ground and first excited states of, measurement using Moessbauer effect, (E), 22:5791
nuclear charge radius shift between 29.4-keV and ground states, measurements using Moessbauer effect, (E), 23:3970
nuclear electric quadrupole moment of, measurement using double-resonance technique, (E), 23:23656
nuclear quadrupole moment of, from resonance radiation studies of potassium-I spectrum, (E/T), 22:45939
nucleosynthesis of, effects of energetic proton fluxes on, (T), 25:11544
occurrence in biosphere, 21:18142
preparation by reduction—distillation method, 24:19165(R) (ORNL-TM-2889)
radiation dose from, to population of alpine foothills, 21:16362
radiation dose to oak trees from, seasonal variations in, determination of, by thermoluminescent dosimeters, 21:18045
sorption in soils, use of tracer techniques to study, 21:25973 (NP-15085)
sorption of, by manganese oxides in water works filter bed materials, 21:16006
transport through food chain in Po river, 24:4591
uptake by algae, mollusca, and plankton of Black Sea during 1958 to 1960, 25:39854(T) (AEC-tr-7232, pp 112-34)
uptake by aquatic plants, 25:41833(R) (IA-1218)
uptake by leaves of alders, poplars, reeds, and willows in river bank ecosystems, 23:29419(T) (AEC-tr-7040)
uptake by man in Japan during July 1963 to March 1965, 21:20211
use as standard in nuclear metrology, 25:54901
use for determining body composition of cattle and swine, 22:21460(R) (COO-1171-82)
use for determining composition of ground beef, 21:36530
use for determining lean body mass and fat content of human females, 22:28448 (NYO-2147-13, pp 64-71)
use for estimation of lean muscle mass in cattle, 21:30788
use with whole-body counting to determine potassium content of pregnant female man, 24:19287 (MIT-952-6, pp 155-63)
use with whole-body counting to determine potassium requirement of young man during exercise in relation to proteins, 24:19287 (MIT-952-6, pp 155-63)
uses as external and internal standard for determination of total beta activity of long-lived fission product mixtures, 25:42

POTASSIUM ISOTOPES K-41

abundance ratio to potassium-39 in potassium metal, mass-spectrometric determination of, 22:18723
alpha elastic scattering at 18 to 29 MeV, angular distributions for, 24:5412
alpha elastic scattering at 24.1 MeV, optical-model analysis of angular distributions from, 25:5665
beta decay of, hindrance in unique first-forbidden, (T), 24:49768
concentration of, in molten salt electrolysis, 21:14301
content in rocks, 21:14315
content of cells and extracellular fluid in relation to potassium-39, 22:28311
determination in iron meteorites, (E), 22:7082
determination in mixed spikes with potassium-39 and potassium-40, method for correction for isotopic fractionation in, 25:48460
determination of abundance of, relative to potassium-39 by neutron activation, 25:54492
deuteron reactions (d,α) at 4 to 5.5 MeV, fluctuation and statistical analysis of cross sections for, (E/T), 24:3891
deuteron reactions (d,α) at 7.5 MeV, α spectra and Q-value for, (E), 22:18181
deuteron reactions (d,He-3) at 23 MeV, angular distributions for, (E), 22:48507(R) (ANL-7436)
deuteron reactions (d,He-3) with, angular distributions for, (E), 23:17103(R) (ANL-7481)
deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 23:21318
deuteron reactions (d,p) with, proton spectra from, (E), 22:32513(R) (ANU-P-400)
effects on electromigration in solid potassium chloride, 25:29041
effects on electromigration of ions in molten lithium sulfate—potassium sulfate mixtures, 23:4609
effects on F-center spectra of potassium bromide and iodide, 25:9585
energy level at 1.29 MeV from argon-41 decay, lifetime of, (E), 24:15836
energy level at 1.29 MeV, half-life and nuclear magnetic moment of, (E), 23:28286
energy level at 1.29 MeV, half-life for, (E), 24:26596(R) (BARC-401)
energy levels from argon-40 (d,n) reactions, (E), 24:52502
energy levels from argon-40 (He-3,d) reactions, (E), 25:3632
energy levels from argon-40 (He-3,d) reactions, spectroscopic factors for, (E), 23:10936(R) (COO-535-591)
energy levels from argon-40 (He-3,d) reactions, spectroscopic factors for, (E), 24:24521
energy levels from argon-40 (p,γ) reactions, spin—parity assignments for, (E), 23:13255
energy levels from argon-40 proton elastic scattering, spins and widths of, (E), 22:7677
energy levels from calcium-42 (d,He-3) reactions, spectroscopic factors for, (E), 24:13337
energy levels from calcium-42 (t,α) reactions, spin—parity assignments for, (E), 22:50590
energy levels from neon-20 scattering with Coulomb excitation, spin—parity assignments for, (E), 23:17080
energy levels from neutron inelastic scattering, spin—parity assignments for, (E), 25:17814
energy levels from potassium-39 (t,p) and potassium-40 (n,γ) reactions, spin—parity assignments for, (E), 25:43845
energy levels from potassium-39 (t,p) reactions, 2p-1h, (T), 21:21488
energy levels from potassium-40 neutron capture, (E), 23:49398 (WASH-1127)
energy levels from potassium-40 thermal neutron capture, spins and parities of, (E), 25:31292
energy levels from proton elastic scattering by argon-40, analog resonance, (T), 21:21491
energy levels from proton elastic scattering by argon-40, spin—parity assignments and widths for isobaric analog, (E), 23:39979
energy levels from proton elastic scattering, isobaric analog, (E), 21:1045
energy levels from proton inelastic scattering and (p,α) reactions on argon-40 at 3.5 to 6.0 MeV, (E), 21:44648
energy levels from proton inelastic scattering and argon-41 beta decay, spin—parity assignments for, (E), 25:50700
energy levels from proton resonances in argon-40, spreading widths for isobaric analog, (T), 25:5644
energy levels from proton scattering by argon-40 at 3.5 to 6.0 MeV, (E), 21:17337
energy levels from shell-model calculations, (T), 22:7770
energy levels of, comparison of shell-model calculations and projected intrinsic states for, (T), 23:30970
energy levels of, isobaric analog, (E), 22:44660
energy-level scheme from potassium-40 thermal neutron capture, (E), 25:48069 (BNL-50276)
energy-level spins from polarization measurements on proton elastic scattering by argon-40, (E), 21:23453
energy-level transition in, parity-violating admixture in M2, (T), 25:34035
energy-level transition, circular polarization of 1290 keV gamma, (E), 24:1796
energy-level transitions from proton inelastic scattering and argon-41 beta decay, branching ratios for, (E), 25:50700
energy-level transitions in, investigation of nonconservation of parity from circular polarization measurements of gamma rays from, (E), 23:46939(T) (BNL-tr-283)
energy-level transitions in, shell-model calculation of radiative widths and multipole mixing ratios for, (T), 24:43256
helium-3 elastic scattering at 10 MeV, optical-model analysis of, (E), 25:45973
helium-3 reactions (He-3,d) at 10 MeV, DWBA analysis of angular distributions and spectra from, (E/T), 25:45973
helium-3 reactions (He-3,d) at 11 MeV, absolute cross sections and spectroscopic information for, 22:48482
helium-3 reactions (He-3,d) at 11.0 MeV, angular distributions for, (E), 25:3627
helium-3 reactions (He-3,dγ) at 18 MeV, angular distribution and deuteron-gamma coincidence spectra for, (E), 23:49374
helium-3 reactions (He-3,γ) at 2 to 33 MeV, excitation function for, (E), 22:41999
helium-3 reactions (He-3,γ) at 3 to 33 MeV, cross sections for, (E), 21:42598
helium-3 reactions (He-3,γ) at 5 to 33 MeV, excitation function for, (E), 22:27075
helium-3 reactions (He-3,p) at 13 MeV, angular distributions and excitation functions for, (E), 22:13960
helium-3 reactions (He-3,p) at 13 MeV, differential cross sections for, (E), 22:32516 (MIT-2098-422, pp 43-68)
helium-3 reactions (He-3,t) at 23 and 26 MeV with cross-shell transitions, triton spectra from, (E), 24:22132
Larmor frequency and magnetic moment of, (E), 21:15478
neon-20 scattering at 35 MeV with Coulomb excitation, γ spectra for, 23:17080
neutron capture by, activation cross section and resonance integral for thermal, (E), 24:28759
neutron capture by, gamma spectra from thermal, (E), 24:47569
neutron capture by, γ spectra from resonance and thermal, (E), 22:20576 (ORNL-TM-2159)
neutron capture by, γ spectra from thermal, (E), 22:26995
neutron capture by, γ spectra from thermal, (E), 22:35293(R) (ORNL-4230)
neutron capture by, Q-value for, (E), 22:45093 (COO-1618-9)
neutron capture by, resonance integrals and partial widths of resonances in, (E), 25:20359
neutron capture cross section at 0.005 to 3 MeV, (E), 22:32596
neutron capture cross sections at 0.15 to 3 MeV, (E), 21:46683 (ANL-7325, pp 197-200)
neutron capture cross sections at 5 keV to 3 MeV, 21:36073(R) (ANL-7350)
neutron capture cross sections between 0.005 and 3 MeV, (E/T), 21:12231(R) (ANL-7267)
neutron capture cross sections of, thermal, (E), 21:7759
neutron capture resonance integral for, (E), 21:29937
neutron differential inelastic scattering cross sections at 1.82 to 3.96 MeV, (E), 22:20556
neutron inelastic scattering cross sections at 1.82 to 3.96 MeV, (E), 25:17814
neutron reactions (n,2p) at 14.6 MeV, cross section for, (E), 25:7828
neutron reactions (n,α) and (n,p) at 14 MeV, cross sections for, (E), 21:13850
neutron reactions (n,α) and (n,p) at 14.2 MeV, activation cross sections for, (E), 22:18180
neutron reactions (n,α) and (n,p) at 14.2 MeV, cross sections for, (E), 22:32530
neutron reactions (n,α) and (n,p) at 14.8 MeV, cross sections for, (E), 22:48499
neutron reactions (n,α) at 14.2 MeV, statistical-model calculations of cross section for, (T), 22:20686
neutron reactions (n,α) at 14.7 MeV, cross sections for, (E), 21:7715
neutron reactions (n,α) at 15 MeV, absolute cross section for, (E), 23:5844
neutron reactions (n,α) in fast reactor spectrum, cross section for, (E), 22:41997
neutron reactions (n,p) at 13 to 18 MeV, excitation function for, (E), 23:34756
neutron reactions (n,p) at 14 to 18 MeV, cross sections for, (E), 23:49332(R) (EANDC(E)-115(U))
neutron reactions (n,p) at 14.2 MeV, statistical-model calculations of cross section for, (T), 22:20686
neutron reactions (n,p) at 14.7 MeV, cross sections for, (E), 21:7715
neutron reactions (n,p) at 15 MeV, absolute cross section for, (E), 23:5844
nuclear electric quadrupole moment of, measurement using resonance scattering of light, (E), 23:30966
photon reactions (γ,π^+) at 150 to 700 MeV, yields and cross sections for, (E), 25:9620 (LUNP-7007)
photon reactions (γ,π^+) with, meson (π^+) yields from, (E), 25:17789
proton elastic scattering at 1.35 to 1.96 MeV, angular distributions for, (E), 24:49843
proton inelastic scattering at 5.3 to 5.8 MeV, gamma and proton spectra from, (E), 25:50700
proton reactions (p,α) at 1.17 to 2.10 MeV, resonances in, (E), 24:49844
proton reactions (p,α) at 1550 to 2000 keV, angular distributions and excitation functions for, (E), 23:21306
proton reactions (p,α) at 2.1 to 2.5 MeV, angular distributions and excitation functions for, (E), 22:15976
proton reactions (p,α) at 7.5 MeV, α spectra and ground-state Q-value for, (E), 23:1871
proton reactions (p,α), (p,γ), and (p,n) at 1.40 to 1.75 MeV, resonances in, (E), 22:13962
proton reactions (p,γ) in giant resonance region, angular distributions and cross sections for, (E), 25:43853

- proton reactions (p,n) at 1.2 to 2.3 MeV, threshold energy and neutron yield for, (E), 23:28242(R) (ANU-P-434)
- proton reactions (p,n) at 1.35 to 1.96 MeV, angular distributions for, (E), 24:49843
- proton reactions (p,n) near threshold, ground-state Q value for, (E), 24:38147 (RLO-1925-40)
- proton reactions (p,n) near threshold, Q-value for, (E), 25:3608
- proton reactions (p,n) up to 2 MeV, threshold energy and forward neutron yield for, (E), 24:10940 (ANU-P-463)
- proton reactions (p,n) up to 4.3 MeV, gamma spectra from, (E/T), 25:34011 (NP-18812)
- proton reactions (p,n) with, gamma Doppler shifts from, (E), 21:35445
- proton reactions (p,nγ) at 3.3 to 4.3 MeV, γ spectra from, 24:28756
- proton reactions at 1.8 to 2.2 MeV, resonances in, (E), 22:7680
- separation from potassium-39 by electromigration in molten potassium nitrate, 23:7602
- separation from potassium-39 by thermal diffusion in molten salts, 24:39028
- separation from potassium-39 by thermal diffusion in molten sulfates, 24:7491
- separation from potassium-39, design of separation column for countercurrent electrolytic, 24:27198
- spectra of, atomic-beam measurement of isotope shift with respect to potassium-39, 24:37189 (UCRL-19520)
- spectra of, isotope shift relative to potassium-39, 25:7145 (UCRL-19530, pp 191-220)

POTASSIUM ISOTOPES K-42

- accumulation in leaves, stems, and roots of corn, effects of age, potassium deficiency, and temperature on, 25:10930 (CEA-CONF-1517)
- activity of, liquid scintillation counting system for measurement of, 21:6280
- beta activity of, performance of Geiger-Mueller and scintilletion counters for counting, 21:14433 (NP-16483)
- beta decay of, β shape factor for, (E), 22:53105
- beta decay of, γ singles and coincidence spectra from, (E), 24:40584
- beta decay of, half-life and γ spectra for, (E), 23:19204(R) (RPI-3948-1)
- beta energy yield from, use of Geiger—Mueller detectors for determining, 22:6592
- beta transitions in, β-γ correlation study of first-forbidden, (E), 22:15973
- content in blood and muscle of humans in Tokyo, 21:24445
- content in human urine, use of liquid scintillation Cherenkov detectors for determining, 21:32414
- content of animals, use of crystal-type whole-body counter, calibration methods for, 23:22213
- content of body of animals and man in relation to composition of fat and water, review of, 23:22216
- content of man, methods of measuring whole-body, 22:4614
- content of man, whole-body counting of, 25:51975
- content of meat following neutron activation, 24:39596(T) (ORNL-tr-2321)
- content of urine in dogs following injection into renal artery, effects of rate of exchange of potassium in kidneys on, 22:28319
- decay energies from potassium-41 neutron capture, total beta and gamma, (E), 22:45093 (COO-1618-9)
- decay scheme from potassium-41 (n,γ) reactions, (E), 24:47569
- decay schemes for, tables on, 23:33331 (BNL-13595)
- determination in biological materials using Cherenkov radiation, 25:34540
- determination in body fluid by ion exchange and scintillation counting, 25:11066
- determination in colored plant extracts by Cherenkov counting, 25:15517
- determination in liquid biological materials by counting Cherenkov radiation, 23:49736
- determination in urine from fasting humans following oral administration, 21:22261
- determination of trace amounts of, in irradiated sodium carbonate by high-voltage paper electrophoresis and γ spectrometry, 23:47398
- determination of, in presence of sodium-24, 21:18
- determination using nomograms for estimating specific activity, 23:31302
- diffusion from frog skeletal muscle, effects on pH sensitivity of membrane on, 21:41320
- diffusion from giant axon of lobster, time and temperature constants for, 21:20109
- distribution in carcass, feces, serum, and urine of bulls, 25:24019
- distribution in denervated rat muscle, 21:22345
- distribution in muscles of human heart, computer analysis of serial digital scans for determining, 21:32695
- distribution in tissues in cat brain, tracer study of effects of edema on, 25:492
- distribution on surfaces of plants, 23:29332
- effects on cesium-134 transport to roots of bunchgrass, effects of photoperiod on, 23:775 (ORO-3488-8)
- effects on neutron activation analysis of tissues, interfering, 24:9261
- efflux from heart muscle, effects of calcium and strontium on, 21:12784
- electromigration of, in melted lithium, potassium, and sodium nitrates, 21:8254
- energy levels from calcium-43 (d,He-3) reactions, spectroscopic factors for, (E), 24:13337
- energy levels from calcium-43 (He-3,α) reactions, spin—parity assignments for isobaric analog, (E), 23:21295 (ZFK-130, pp 108-9)
- energy levels from potassium-41 (d,p) reactions, (E), 22:32513(R) (ANU-P-400)
- energy levels from potassium-41 (d,p) reactions, spin—parity assignments and spectroscopic factors for, (E), 23:21318
- energy levels from potassium-41 thermal neutron capture, (E), 22:35293(R) (ORNL-4230)
- energy levels from potassium-41 thermal neutron capture, spins of, (E), 22:26995
- energy levels from resonances in potassium-41 (p,n) reactions, spin-parity assignments for isobaric analog, (E), 24:10940 (ANU-P-463)
- energy levels from shell-model calculations, (T), 22:7770
- energy release and intensity per disintegration in tissue, computer calculations of, for use in dosimetry, 24:14492
- evaluation for scanning brain tumors, 22:38361
- exchange between organic solutions of neutron-irradiated biological materials and potassium chloride, 24:9261
- exchange kinetics in cells of amphibian atrial myocardium, 23:24173
- exchange with potassium in sheep in relation to diet and body composition, 23:22206
- exchange with potassium-39 in soil, 22:42662
- excretion by sheep, effects of potassium or sodium on, 21:34661
- excretion from fasting humans following oral carrier-free administration, urinary, 21:22261
- gamma emission by, use of, for estimation of whole-body potassium content of man, 22:38297
- gamma emissions from, in plant tissues, use of liquid scintillation spectrometer for counting, 22:503
- half-life in mice, effects of age on, 23:31626
- half-life, (E), 21:25496
- hyperfine structure and nuclear magnetic moment, (E), 21:23314 (BNL-994, pp 70-102)
- isotopic equilibration of ingested, with potassium-40 in man, kinetics of, 23:14221 (ORO-2401-27, pp 52-87)
- kinetics in microcosms, 24:39464 (ORNL-4446, pp 113-36)
- measurement in man, physiological factors affecting calibration of whole-body counters for, 22:21460(R) (COO-1171-82)
- metabolism by guinea pigs, 22:12761(T) (UCRL-Trans-10179)
- metabolism in crickets, 22:6772 (ORNL-4168, pp 61-118)
- metabolism in dogs, effects of riboflavin on, 21:34580
- metabolism in grassland arthropods, effects of temperature on, 24:39463 (ORNL-4446, pp 76-112)
- metabolism in heart of frogs, guinea pigs, and rats during cardiac cycle, 24:34061
- metabolism in nonlactating cattle, effects of supplemental potassium bicarbonate on, 24:41747
- nuclear magnetic moment of, determination from hyperfine structure, (E), 24:1804
- preparation of, equations and generator method for, 21:8407
- production at Hahn—Meitner Institute, Berlin, 22:6312 (HMI-B-52)
- production by neutron irradiation of element, minimizing cost function for, 22:30609
- production by nuclear reactors for use in biology and medicine, 23:45609 (CNM-R-2(Vol.2), pp 797-825)
- production in Australia, 22:42761
- production in proton spallation reactions at 590 MeV and 7 GeV, (E), 21:38290
- purification of high specific activity, for human excretion studies, 21:22261
- radiation effects on distribution of, in brain, liver, and muscles of mice, x, 24:16980
- radiation effects on incorporation of, in rat erythrocytes, γ, 21:36520
- radiation effects on uptake of, by rat erythrocytes, cobalt-60 γ, 23:35641
- range distributions of ions of, in amorphous aluminum oxide at 40 to 1000 keV, (E), 21:44202
- retention in rats, 22:51308 (ORAU-106, pp 171-93)
- separation from aqueous solutions using hydrous manganese oxides and manganese oxide—iron oxide, electrophoretic, 22:14581
- separation from biological materials following neutron activation, 21:23832
- separation from irradiated tissues by isotopic exchange, 24:31469
- separation from milk, review of methods for, 21:20225
- separation from potassium chloride by thermal diffusion, 21:6151
- sorption in soils, use of tracer techniques to study, 21:25973 (NP-15085)
- spectra of, atomic-beam measurement of isotope shift with respect to potassium-39, 24:37189 (UCRL-19520)
- spectra of, isotope shift relative to potassium-39, 25:7145 (UCRL-19530, pp 191-220)
- translocation in plants in relation to food chain availability, pathways for, 25:37742 (A/CONF.49/P-85)
- transport by colon of adrenalectomized, normal, and sodium-depleted rats, determination of, by miniature GM and whole-body counters, 24:34069
- transport in barley and bush bean plants, 23:26712 (UCLA-12-706, pp 73-90)
- transport in leaves, stems, and roots of corn, effects of age, potassium deficiency, and temperature on, 25:10930 (CEA-CONF-1517)
- uptake and distribution of, in oats, effects of magnesium sulfates and nitrogen on, 21:26378
- uptake by human erythrocytes in relation to incidence of coronary disease and skeletal muscle action potential, 23:41219
- uptake by leaves of bean plants, 21:9006(R) (EUR-3163.e)
- uptake by marine algae, 23:12044 (PRNC-60)
- uptake by somatic and cardiac muscles of crayfish, 21:24318
- uptake from soil by plants, chemical and physical factors affecting, 22:423(R) (TID-23955)
- uptake in synchronized and synchronous cultures of Escherichia coli, 25:37899 (ANL-7770, pp 118-30)
- uptake in Zea mays roots in relation to bioelectric potential, 25:11308
- use as tracer for study of cerebrospinal fluid synthesis, absorption, and circulation in animals and man, 25:555
- use as tracer for studying bubble-bursting mechanism of pollutant transport from surface waters to atmosphere, 25:32144
- use for brain scanning, 23:50723
- use for calibrating potassium-40 measurements, 22:514
- use for determination of effect of potassium on metabolism of cesium-137 in swine, 21:16274
- use for heart scanning in dogs and man, 24:9888
- use for measurement of blood circulation in bones, review of, 23:20275
- use for measurement of blood circulation in capillaries, method for, 23:20276
- use for measurement of cerebral blood circulation in monkeys, 22:40768
- use for measurement of exchangeable potassium in man, 22:51438
- use for study of total body diffusion in man, 24:25355
- use for visualization of blood circulation in heart by scanning technique, 21:8844 (COO-78-142, pp 138-41)
- use in fractionation technique for determining body composition of hyperthyroid patients, 23:41207
- use in measurement of exchangeable potassium in body, 22:14462
- use in radiopharmaceuticals, determination of half-life and radiation-emission for, 22:23586
- use of potassium chloride-incorporated, for scanning of human brain for localization of intracranial neoplasms, 22:31198
- use of, in myocardial scanning of man, collimator for, 21:10998
- yields from nuclear explosions, effects of, on radiation dose to man, 22:23511 (UCRL-70788)

POTASSIUM ISOTOPES K-43

- beta decay of, analysis using configuration mixing, (T), 24:3882
- beta decay of, γ branching ratios and spectra for, (E), 22:29965
- beta decay of, γ spectra for, (E), 23:39986
- beta decay of, half-life and γ spectra for, (E), 23:19204(R) (RPI-3948-1)
- distribution in dogs following injection, development of model for simulation of effects of coronary flow rate on, 24:44412
- energy levels from calcium-44 (d,He-3) reactions, spectroscopic factors for, (E), 24:13337
- energy levels from calcium-44 (t,α) reactions, (E), 24:28743
- energy levels from calcium-44 (t,α) reactions, spin—parity assignments for, (E), 22:50590
- energy levels of, even-parity, (T), 21:7478(R) (COO-1371-36)
- evaluation for scintigraphy of myocardium in dogs, 25:58041 (UCLA-12-837)
- gamma spctra of, (E), 24:49718
- gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
- gamma spectra of, use of thallium-activated sodium iodide scintillation spectrometer for measuring, 21:26147(R) (IDO-17222)
- metabolism in animals, in comparison to rubidium-86, 24:16966
- mixtures with bromine-77 and sodium-24, use as tracer for estimation of electrolyte metabolism in man, 24:33997
- preparation from calcium-43, 22:23399 (IA-1128, pp 213-19)
- production and properties of, 25:46530 (CONF-700646-, pp 12-24)
- production in human bone by 600 MeV protons, 22:51296 (CERN/HER/AP-2-68)
- production in proton spallation reactions at 590 MeV and 7 GeV, (E), 21:38290
- production of, 23:2519 (ORNL-4329)
- uptake by leaves of bean plants, 25:16089(R) (EUR-4545)
- use as tracer in studies on exchangeable potassium in human body, 25:21535
- use for study of electrolyte balance in man, 24:786
- use of potassium chloride-incorporated, for scintigraphy of heart for diagnosis of myocardial infarction, 25:46919

POTASSIUM ISOTOPES K-44

- beta decay of, β and γ spectra from, (E), 24:38191
- beta decay of, gamma spectra from, (E), 23:19220
- energy levels from calcium-44 (t,He-3) reactions, (E), 24:28743
- energy levels from shell-model calculations, (T), 22:7770
- gamma spctra of, (E), 24:49718

POTASSIUM ISOTOPES K-45

- beta decay, (E), 21:44631
- energy levels from calcium-46 (t,α) reactions, spins and parities of proton-hole, (E), 21:29950
- energy levels from calcium-46 (t,α) reactions, spin—parity assignments for, (E), 22:50590
- gamma spctra of, (E), 24:49718
- nuclear magnetic dipole moment, (E), 21:44631
- nuclear magnetic moment and spin of, measurement using atomic-beam magnetic-resonance technique, (E), 22:50597
- nuclear spin, (E), 21:44631

POTASSIUM ISOTOPES K-46

- decay scheme for, (E), 24:20360
- energy level at 3.2 MeV from calcium-48 (d,α) reactions, (E), 23:17103(R) (ANL-7481)
- energy levels from calcium-46 (d,α) reactions, spin-parity assignments for low-lying, (E), 24:43285
- energy levels from calcium-48 (d,α) reactions, spin-parity assignments for, (E), 25:38949
- energy levels from calcium-48 (p,He-3) reactions, spin assignments for isobaric analog, (E), 24:22104
- energy levels from shell-model calculations, (T), 22:7770

POTASSIUM ISOTOPES K-47
  beta decay of, half-life for, (E), 24:52522
  energy levels from calcium-48 (d,He-3) reactions at 34.4 MeV, (E), 22:20505
  energy levels from calcium-48 (t,α) reactions, spin—parity assignments for, (E), 22:50590
  energy levels from calcium-48 (t,α) reactions, spins and parities of proton-hole, (E), 21:29950
  energy levels of, calculation of proton single-hole, (T), 22:37378
  energy levels of, calculations using shell model with Hamada—Johnston potential, (T), 22:18173
POTASSIUM LANTHANUM FLUORIDES
  crystal structure of, 21:21918 (ORNL-4076, pp 1-54)
  crystal structure of, effects of cation displacement on, 21:21918 (ORNL-4076, pp 1-54)
POTASSIUM LEAD URANIUM OXYFLUORIDES
  crystal structure of, 24:41284
  preparation and properties of, 23:28814
  properties of, magnetic and spectroscopic, 24:41284
POTASSIUM MAGNESIUM CHLORIDES
  crystal structure of, 21:12382 (ORNL-3970, pp 45-7)
  spectra of cobalt(II)-doped monocrystalline, absorption, 24:1088 (ORNL-TM-2507)
POTASSIUM MAGNESIUM FLUORIDES
  color centers and impurity ions in, EPR and optical absorption studies of, 25:44297 (TID-25746)
  growth of doped monocrystals of, 24:32524 (ORNL-4526, pp 83-96)
  iron-ion ESR spectrum in, 25:33402(R) (ORNL-4669)
  preparation of high-purity and rare earth-doped monocrystalline, 25:2727 (ORNL-4570, pp 1-4)
  radioinduced defect centers in, room temperature x-, (E), 24:8534
  radioinduced F centers in crystals of, absorption spectra of 2-MeV electron, 25:22608
  radioinduced thermoluminescence spectra of $KMgF_3$ crystals, electron, 24:32916 (ORNL-4526, pp 34-43)
  trapped-hole centers in, decay and orientation of, 25:33402(R) (ORNL-4669)
  $KMgF_3$—$KMnF_3$, radioinduced color centers in mixed single crystals of, spectra of 2-MeV electron, 25:33402(R) (ORNL-4669)
POTASSIUM MANGANATES
  complexes with oxalic acid, radiolysis of, yields from γ, 24:27162
POTASSIUM MANGANESE FLUORIDES
  electron resonance studies of critical fluctuations in, (E/T), 22:24412 (UCRL-18119)
  magnetic excitations in cobalt-substituted, at low temperature, (E), 22:46729(R) (AECL-3157)
  phase transitions in normal and cobalt-doped, antiferroelectric, 23:23746(R) (AECL-3257)
  radioinduced F centers in crystals of, absorption spectra of 2-MeV electron, 25:22608
  scattering on, critical magnetic, (T), 21:6974 (BNL-9615)
  $KMgF_3$—$KMnF_3$, radioinduced color centers in mixed single crystals of, spectra of 2-MeV electron, 25:33402(R) (ORNL-4669)
Potassium Metaniobates
    see Potassium Niobates
POTASSIUM METHOXIDE
  complexes of, with 2,4-dinitroanisole, stability and structure of, 21:14240(R) (RRL-2310-194)
  effects of, on deuterium exchange reactions between methanol and N,N,9-trimethylfluorene-2-carboxamide, catalytic, 21:15903
  effects of, on deuterium exchange reactions between methanol and N,N,9-trimethylfluorene-2-carboxamide, 21:15902
  effects on deuterium exchange between carbon acids and methyl sulfoxide—methanol, catalytic, 22:21065
  effects on deuterium exchange between dimethyl sulfoxide—methanol and phenylmethanes, 22:21064
  reactions with 2-(2,4-dinitrophenoxy)ethanol in benzene and dioxane, formation of spiro Meisenheimer complexes by, 22:96(R) (RRL-2310-214)
  methanol—potassium methoxide, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
POTASSIUM METHYL SULFATES
  radiation effects on, ESR studies on radical formation at 77 to 300°K in γ, 21:28003
POTASSIUM MOLYBDATES
  superconducting transitions in, (E), 23:18557
POTASSIUM MOLYBDENUM FLUORIDES
  spectra of melted, reflectance, 24:3003 (ORNL-4470, pp 34-42)
POTASSIUM NEPTUNATES
  preparation and properties of K_3NpO_5, 25:51431
POTASSIUM NEPTUNIUM FLUORIDES
  crystal structure, 21:3038
  crystal structure of $K_7Np_6F_{31}$, 22:2080
  preparation of, 22:30517
POTASSIUM NEPTUNYL CARBONATES
  preparation, properties, and structure of $K_4[NpO_2(CO_3)_3]$, 21:82
  preparation, properties, and structure of $K_5[NpO_2(CO_3)_3]$, 21:83
POTASSIUM NEPTUNYL FLUORIDES
  preparation of, 22:30517
POTASSIUM NICKEL FERROCYANIDES
  structure of, electron-graphic and electron-microscopic studies on, 22:35825
POTASSIUM NIOBATES
    see also Potassium Sodium Niobates
  preparation and phase relations of monocrystals of, 23:27198
  preparation and structure of single crystal K_3NbO_4, 22:49811
  preparation, properties, and structure of single-crystal, $K_4Nb_6O_{17}$, 22:49811
  radioinduced phase transition in $KNbO_3$, crystal, fast-neutron, 24:6621
  $BaNbO_3$—$KNbO_3$—$NaNbO_3$, preparation and thermal properties of crystals of, 24:1075
  $KNbO_3$—$LiNbO_3$—$NaNbO_3$, properties of hot-pressed ceramics of, 21:32990
  $KNbO_3$—$NaNbO_3$, properties of hot-pressed ceramics of, 21:32990
POTASSIUM NIOBIUM FLUORIDES
    see also Potassium Fluoroniobates
  reduction in potassium chloride—sodium chloride eutectic bath, electrolytic, 23:19696
  reduction to niobium in melts, electrolytic and zinc, 25:13642
  KCl—K_2NbF_7—NaCl, phase studies of liquid, 23:14362
  KCl—KF—K_2NbF_7—Nb_2O_5, electrolysis of molten, electrowinning of niobium by, 22:19492
POTASSIUM NITRATES
    see also Potassium Uranyl Nitrates
  analysis for nitrogen-15, infrared spectrometric method for, 22:12232
  analysis for oxygen isotopes by Raman spectroscopy, 24:18882
  analysis of labeled, for nitrogen-15 by Dumas combustion and mass spectrometry, 23:26169
  cesium-137 leaching from sandy clay soils by, effects of high-level waste salts on, 22:21298 (DP-1124)
  density at 346 to 612°C, 23:45182 (ORNL-4396, pp 129-209)
  effects as salting out agent on separation of trivalent rare earth elements, 24:41389 (IAE-1904)
  effects of, on precipitation and hydrolysis of uranium(VI) in aqueous solutions using potassium hydroxide, 21:14202
  effects on determination of polonium-210 in rocks and uranium ores by spontaneous deposition on silver, 23:89
  effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
  effects on radiolysis of aqueous silver solutions, 25:8302
  effects on radiolysis of water, 25:2257 (CEA-R-4046)
  effects on solvent extraction of thorium and uranium by kerosene—TBP system, 21:32239
  effects on yields from γ radiolysis or silent electric discharge of aqueous chloroacetic acid solutions, 23:26275
  electric conductivity of aqueous solutions of, to 800°C and 4000 bars, 24:13800 (ORNL-4400, pp 69-76)
  electric conductivity of molten, 24:13799 (ORNL-4400, pp 1-29)
  electric conductivity of molten, at 345 to 541°C, 23:19614 (ORNL-4375)
  electric conductivity of molten, at 345 to 541°C, 23:45182 (ORNL-4396, pp 129-209)
  electrochemical studies on association of cadmium, lead, or silver halides in dilute solutions, 21:35919(R) (NYO-2873-23)
  electromigration of cesium-134, potassium-42, rubidium-86, and sodium-22 in melts of, 21:8254
  electromigration of potassium ions in molten, separation of potassium-39 from potassium-41 in, 23:7602
  electromigration of sodium-22 and -24 in molten, isotope effects in, 22:27710
  radiation effects on aqueous solutions of, alpha, beta, and γ, 22:42731(T) (RFP-Trans-36)
  radiation effects on phase transitions in, gamma, 21:27235
  radiation effects on trivalent chromium-51-doped, conversion to chromate(VI) by uv or γ, 25:51488
  radiation effects on, in presence of oxygen-18, production of oxygen-18-labeled products from, 25:54633(R) (ORO-3660-4)
  radiation effects on, paramagnetic resonance spectra of nitrogen dioxide in γ, 22:105
  radiolysis of aqueous ethanol solutions of, γ, 25:8301
  radiolysis of aqueous solutions of, emergency dose measurements by, 21:3130
  radiolysis of aqueous solutions of, γ, 24:7445 (RLO-2014-9)
  radiolysis of aqueous solutions of, hydrogen peroxide and nitrite yields from γ, 24:5678(R) (RLO-2014-8)
  radiolysis of crystalline, effects of additives on yields from proton and γ, 25:54638
  radiolysis of crystalline, effects of oxygen-18 on, 25:13043
  radiolysis of crystalline, effects of trivalent rare earth ions on, 23:17482
  radiolysis of crystals of, 23:11552
  radiolysis of crystals of, effects of nitrites, nitrogen trioxide, perchlorates, and temperature on γ, 24:22704
  radiolysis of crystals of, effects of oxygen-18 on γ, 24:9411
  radiolysis of crystals of, effects of semiconductor impurities on, 22:33398
  radiolysis of oxygen-18-enriched crystals of, effects of atmospheric oxygen-16 on γ, 24:48111 (ORNL-4581, pp 70-83)
  radiolysis of, effects of lead and strontium on proton, 21:12463
  radiolysis of, effects of metal oxide semiconductor impurities on rate of, 22:30632
  radiolysis of, effects of thermal annealing on proton, 21:12463
  radiolysis of, yields from proton, 21:30467
  radioprotective effects of, on spores of Aspergillus niger, uv, 23:31998
  solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
  solvent properties for water, voltammetric studies on, 22:23003 (IA-1128, pp 97-146)
  spectra of aqueous solutions of, uv, 24:5678(R) (RLO-2014-8)
  strontium-90 leaching from sandy clay soils by, effects of high-level waste salts on, 22:21298 (DP-1124)
  structure of, molten, viscosity measurements on, 21:23861(R) (ORO-2073-12)
  use in fusion method for estimation of ruthenium in ruthenium compounds, 23:33
  vapor pressure of saturated solutions of, in water and heavy water, 23:35086
  $Ca(NO_3)_2$—KNO_3, density of aqueous, at 100°C, 21:35919(R) (NYO-2873-23)
  $Ca(NO_3)_2$—KNO_3, spectra of molten, ir and Raman, 24:16354(R) (COO-1615-6)
  H_2O—KNO_3, radiolysis at pH 1.3 to 13, kinetics of hydrogen peroxide production from γ, 23:40752
  H_2O—KNO_3—$UO_2(NO_3)_2$, complex formation in, 21:10338
  KBr—KNO_3, radioinduced decomposition in, energy transfer in, 25:4096
  KBr—KNO_3—$LiNO_3$, zinc bromide distribution in molten, at 150 and 200°C, kinetics of, 24:11505 (IA-1190, pp 133-81)
  KBr—KNO_3—$NaNO_3$, corrosive effects on Zircaloy-2 and Zircaloy-4 at 300°C, 25:24532 (AECL-3799)
  KCl—KNO_3, molal volume and refractive index of aqueous solutions of, 22:23003 (IA-1128, pp 97-146)
  KI—KNO_3—$NaNO_3$, corrosive effects on Zircaloy-2 and Zircaloy-4 at 300°C, 25:24532 (AECL-3799)
  KNO_3—$LiNO_3$, density of aqueous, at 119°C, 21:35919(R) (NYO-2873-23)
  KNO_3—$LiNO_3$, electrolytic properties of aqueous solutions of, adiabatic compression and ultrasonic attenuation studies of, 25:13015
  KNO_3—$LiNO_3$, properties of fused, for use in fuel reprocessing, 21:10428
  KNO_3—$LiNO_3$, solvent properties of, for zinc halides in presence of polyphenyls, effects of potassium halides on, 21:5834 (IA-1082, pp 77-202)
  KNO_3—$LiNO_3$, vapor pressure of equimolar aqueous solutions of, at 119°C, 21:42849 (NYO-2873-22)
  KNO_3—$LiNO_3$, vapor pressure of water over aqueous, 21:35919(R) (NYO-2873-23)
  KNO_3—$LiNO_3$—$NaNO_3$, effects on anodic oxidation of tantalum above 300°C, 22:23003 (IA-1128, pp 97-146)
  KNO_3—NaCl—$NaNO_3$, corrosive effects on Zircaloy-2 and Zircaloy-4 at 300°C, 25:24532 (AECL-3799)
  KNO_3—$NaNO_3$, diffusion of lithium ions in fused, isotope effects on, 21:19636
  KNO_3—$NaNO_3$, preparation of colloidal silver in, 22:25374 (ORNL-4229, pp 22-49)
  KNO_3—$NaNO_3$, separations in, comparison of column crystallization and zone melting methods for, 21:24065 (KFK-502)
  KNO_3—$NaNO_3$, solvent properties of, for water, 21:5834 (IA-1082, pp 77-202)
  KNO_3—$NaNO_3$, spectra of molten, Raman, 21:45069 (ANL-7325, pp 179-96)
  KNO_3—$NaNO_3$, voltammetry in molten, 22:10139(R) (ORO-3518-4)
  KNO_3—NH_4NO_3, electrolytic properties of aqueous solutions of, adiabatic compression and ultrasonic attenuation studies of, 25:13015
  KNO_3—$Pb(NO_3)_2$, electrolytic properties of aqueous solutions of, adiabatic compression and ultrasonic attenuation studies of, 25:13015
POTASSIUM NITRIDES
  radiation effects on crystals of, 21:14238(R) (NYO-3682-2)
  KNO_3—$LiNO_3$—$NaNO_3$, spectra of nickel(II) light absorbing centers in, 23:8323 (ORNL-4370, pp 39-44)
POTASSIUM NITRITES
  effects on growth of porous anodic oxide films on Zircaloy-2 or zirconium, 24:25056
  separation from impurities by distillation, 23:14311(P)
  vapor pressure of saturated solutions of, in water and heavy water, 23:35086
  KNO_2—2-propanol, effects on yields of primary hydrogen atoms from gamma radiolysis of water, 21:23955
  KNO_2—N_2O, radiolysis of solutions of, yields from deuteron, helium-ion, and γ, 23:35245
  KNO_2—$Ni(NO_2)_2$—$Sr(NO_3)_2$, preparation of $K_2SrNi(NO_2)_6$ in, for detection of strontium, 25:37288
  KNO_2—sodium formate, effects on yield of primary hydrogen atoms from gamma radiolysis of water, 21:23955
POTASSIUM NITROSODISULFONATES
  radiolysis in presence of electron scavengers in aqueous alkaline solutions, γ, 23:231
  radiolysis of aqueous solutions of, reactions of hydrogen atoms and solvated electrons in γ, 24:9393
  radiolysis of deaerated aqueous solutions of, radical yields from γ, 22:18817
  radiolysis of heavy water solutions of, radical yields from γ, 24:46266
  use of aqueous solutions of, for dosimetry of accelerated electrons, 21:24235
POTASSIUM OSMIUM CHLORIDES
  neutron reactions (n,γ) in, chemical state of radioactive osmium from, 23:9471
  K_2OsCl_6—K_2ReBr_6, radiation effects from neutron reactions with rhenium-185 in, 21:45157
POTASSIUM OXALATES
    see also Potassium Plutonium Oxalates
    see also Potassium Titanium Oxalates
    see also Potassium Uranium Oxalates
    see also Potassium Uranyl Oxalates
  complexes with aluminum, chromium, cobalt, and iron, gamma radiolysis of, 21:5930
  complexes with cobalt, radiation effects on, γ and neutron, 22:21148
  complexes with tantalum oxides, properties and structure of, 24:41250
  radioinduced free radicals in simple crystals of, magnetic resonance studies of electron, γ, and x, 23:50835(R) (TID-25119)
  radiolysis of, kinetics of γ, 22:47168
  spectra of partly deuterated hydrate of, isotope effects in NMR, 22:30537
POTASSIUM OXIDES
  abundance in average carbonatites, 23:13885
  content in rocks of shields and sediment cover of Brazil, Canada, and USSR, relations with geological time, 25:13114
  determination of potassium-40-labeled, in salts and bases, radiometric, 22:25683

  electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  magnetic susceptibility of KO_2 at 1.3 to 200°K, 21:40772 (IS-1600, Paper 3)
  magnetic susceptibility of KO_2 at 1.3 to 250°K, 23:213 (IS-1900, Paper 3)
  reactions of, with protactinium oxides, solid-state, 21:8314
  thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
  use in removal of coatings from fuel particles, one-step process for, 22:12500(P)
  Al_2O_3—CaO—Cr_2O_3—K_2O—Na_2O—SiO_2—ZrO_2, properties for use as hydrogen diffusion barrier on refractory metals, 24:25648(P)
  Al_2O_3—Cr_2O_3—K_2O, radiation effects on catalytic properties of, in conversion of hexane to benzene, 21:23912
  Al_2O_3—K_2O—SiO_2, wetting of molybdenum and tungsten surfaces by fused, kinetics of, 25:49447
  B_2O_3—KCl—K_2O, radioinduced hole-type center in glass of, Raman spectrum of gamma, 24:8528
  B_2O_3—KCl—K_2O, radioinduced hole-type center in glass of, optical absorption spectra of gamma, 24:10600
  CeO_2—K_2O—PbO—SiO_2, radiation resistant glass of, gamma, 22:17194(P)
  GeO_2—K_2O, radioinduced defects in glasses of, ESR study of paramagnetic states of electron, gamma, and neutron, 22:44213 (ORNL-TM-2264)
  K_2O—NbO_3, glassy solid formation in, effects of rapid quenching on, 23:3154
  K_2O—SiO_2, radioinduced defects by atomic displacement in, effective cross sections for 1.25-MeV gamma, (T), 23:1545
  K_2O—SiO_2, wetting of molybdenum and tungsten surfaces by fused, kinetics of, 25:49447
  K_2O—U_2O_5, compound formation and structure in, 22:12316
  K_2O—U_2O_5, magnetic properties of, 22:12318
  K_2O—UO_3, crystal structure of compounds formed in, 24:11534
  K_2O—V_2O_5, electrolytic separation of vanadium from, effects of potassium oxide content on current efficiency in, 23:12292
  K_2O—ZrO_2, crystal structure of monocrystalline β-$K_2Zr_2O_5$, 24:32508

POTASSIUM OXOTRIOXALATONIOBATE (V)
  structure in aqueous solutions, spectral studies on, 23:11510

POTASSIUM PERBROMATES
  enthalpy of formation of, 24:43990 (ANL-7650, pp 23-34)
  radiolysis of crystalline, yields from γ, 24:46280
  radiolysis of crystals of, stable yields from γ, 24:48111 (ORNL-4581, pp 70-83)

POTASSIUM PERCHLORATES
  determination in explosives, 24:24980 (UCRL-7873(Pt.3))
  determination in plastic-bonded explosives, 21:47044 (UCID-15208)
  determination in plastic-bonded explosives containing HMX and polyethylene, method for, 23:28673(R) (UCRL-50006-69)
  effects on accumulation of pertechnetate in brain of man and rabbits following radioisotope scanning, 24:7923
  effects on iodine-131 content of goat milk, effects of oral dose on, 23:35720
  effects on iodine-131 deposition in chicken egg, 21:34571
  effects on metabolism of iodine-131-labeled methyl iodide in rats, 23:26673
  effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
  effects on reactions of magnesium with niobium pentoxide to produce niobium metal, 23:35121
  effects on sodium pertechnetate (technetium-99m) clearance in dogs and mice, 21:22286
  effects on uptake of technetium-99m by human thyroid, 23:2883
  effects on uptake of technetium-99m by thyroid of man, 23:2884
  properties of, for use as radioisotope carrier for temperature measurements, 21:10687(R) (N-66-21002)
  radiation effects on crystalline, chemistry of chlorine-38g recoil atoms produced by neutron, 21:45145 (ORNL-4164, pp 35-45)
  radiation effects on, distribution of recoil chlorine-38g in chlorine valence states following neutron, 23:234
  radiation effects on, in presence of oxygen-18, production of oxygen-18-labeled products from, 25:54633(R) (ORO-3660-4)
  radioinduced paramagnetic centers at 10 and 26°K in crystals of, ESR spectra of x-, (E/T), 24:37540
  radioinduced paramagnetic centers in, ESR spectra of, (E/T), 21:9665
  radiolysis effects on, chemical states of recoil sulfur-35 from neutron, 25:13065
  radiolysis of crystalline, effects of additives on yields from proton and γ, 25:54638
  radiolysis of crystalline, yields from γ, 24:46280
  radiolysis of crystals of, stable yields from γ, 24:48111 (ORNL-4581, pp 70-83)
  radiolysis of frozen aqueous solutions of, EPR studies on radical production in γ, 25:37433
  radiolysis of, proton, 21:12463
  radioprotective effects of, on extra-thyroidal and thyroid tissues in man and rats, iodine-131 β and γ, 23:24694
  radioprotective effects of, on thyroid during iodine-131 therapy, 21:12941
  radioprotective effects of, on thyroid of man before cerebral scintiscanning, iodine-131 β, 22:36313
  reactions with manganese-56 recoil atoms, oxidation states for, 24:48118
  use with osmotic diuresis for elimination of isotopes from rabbits, 23:22181(T) (AEC-tr-6944, pp 651-6)
  yields in gamma-radioinduced decomposition of crystalline potassium chlorate, 22:10278

POTASSIUM PERIODATES
  neutron capture in, chemical states of iodine-128 and iodine-130 recoils from, 23:40738
  preparation of iodine-131-labeled, using xenon difluoride, method for, 22:4227(T) (ANL-Trans-538)
  properties of, for use as radioisotope carrier for temperature measurements, 21:10687(R) (N-66-21002)
  radiation effects on, chemistry of iodine-128 and -130 recoil atoms produced by neutron, 21:45145 (ORNL-4164, pp 35-45)
  radiolysis of aqueous solutions of, effects of methanol on mechanisms of γ and x, 25:6369
  radiolysis of aqueous solutions of, transitory species from electron pulse, 25:41850(R) (CEA-N-1438)
  radiolysis of crystalline, yields from γ, 24:46280
  radiolysis of crystals of, stable yields from γ, 24:48111 (ORNL-4581, pp 70-83)
  sensitizing effects of, on γ-irradiated Escherichia coli, 23:38901

POTASSIUM PERMANGANATES
  analysis for chromium by atomic absorption, 24:2099 (IN-1316, pp 36-40)
  decomposition of crystals of, by flash photolysis and flash heating, 22:8038(R) (COO-1684-2)
  effects on electrophoretic mobility of x-irradiated human erythrocytes in relation to dose, 25:42682
  effects on oxidation of radon, 21:23869
  effects on Streptococcus faecalis, protective effects of γ radiation against bactericidal, 25:44979
  electric conductivity and thermoelectric force of, effects of manganate and x irradiation on, (E/T), 23:3613
  photoluminescence of, 24:18819(R) (COO-1684-11)
  photoluminescence of crystals of, 23:11376(R) (COO-1684-6)
  positronium chemistry in aqueous solutions of, 23:28936
  properties of aqueous solutions of, to increase effectiveness of reactor emergency core cooling systems, 23:28492 (SNE-50)
  radiation effects on kinetics of thermal decomposition of, γ, 21:27997(T) (NASA-TT-F-481)
  radiation effects on rate of thermal decomposition of, γ, 22:27810
  radiation effects on thermal decomposition induction period in, 25:15644
  radiation effects on thermal decomposition of, γ, 22:12351
  radiation effects on thermal degradation of, x, 22:18847
  radiation effects on, effects of cation and background γ radiation on thermal annealing of recoil manganese-54 and manganese-56 yields from neutron, 24:29327
  radiation effects on, effects of cation on thermal annealing of recoil manganese-56 yields from neutron, 23:40718
  radiation effects on, effects of solvent acidity on oxidation states of manganese-54 recoil atoms produced by neutron, 21:43000
  radiation effects on, mechanism of stabilizing recoil atoms from manganese-56 in neutron, 21:14272
  radioinduced radicals in single crystals of, ESR study of γ, 25:4110 (AD-710231)
  radiolysis of solutions of, ESR and tracer studies on effects of acidity on yields from γ, 23:43363
  reactions in solutions of, effects of acidity on Szilard—Chalmers, 23:11545
  reactions of recoil manganese-56 in, Szilard—Chalmers, 22:25395
  reactions with heptavalent plutonium, 25:32042 (CEA-N-1419, pp 411-40)
  reactions with monolayers of saturated and unsaturated cholestanol, cholesterol, and lecithins, effects of variables on, 25:26213
  reactions with oxalate ions, oxidation, 22:27845 (CEA-N-816, pp 150-276)
  spectra of, effects of oxygen-18 on infrared, 21:14230
  thermoluminescence, 24:18819(R) (COO-1684-11)
  use for determining oxygen isotopic composition in water, 21:1298
  use in determination of uranium in industrial solutions containing carbonates, 21:15
  use of hot alkaline solutions of, for decontamination of reactor cooling systems, 23:7372(P)
  use of, in volumetric determination of uranium, 21:15865

POTASSIUM PEROXYDISULFATES
  effects on oxidation of radon, 21:23869
  reactions with hexavalent neptunium, kinetics of, 25:57412
  reactions with hexavalent plutonium, 24:9322
  reactions with uranyl peroxide, spectral studies on oxidation, 24:36344 (CEA-N-1241, pp 375-425)

Potassium Peroxylamine Disulfonate
    see Potassium Nitrosodisulfonates

POTASSIUM PERRHENATES
  proton reactions (p,pxn) with rhenium in, chemical forms of radiorhenium from, 24:2258
  radiation effects on, chemical states of radioactive rhenium produced from proton, 24:38947
  spectra of, nuclear quadrupole resonance, 22:18806(R) (COO-1385-21)
  thermal capacity of, high-temperature enthalpy measurements on, 21:45089 (ORNL-4164, pp 101-44)

POTASSIUM PERTECHNETATES
  reactions with bromine at 350 to 400°C, 23:15846
  thermal capacity of, high-temperature enthalpy measurements on, 21:45089 (ORNL-4164, pp 101-44)
  thermodynamic properties of, at 9 to 310°K, 24:183 (ORNL-4437, pp 107-43)

POTASSIUM PHENOXIDE
  effects of, on deuterium exchange reactions between 2-methyl-2-propanol and N,N,9-trimethylfluorene-2-carboxamide, catalytic, 21:15903

POTASSIUM PHOSPHATES
    see also Potassium Acid Phosphates
    see also Potassium Fluorophosphates
  analysis of, for phosphorus-32, by paper chromatography and scintillation counting, 21:10294
  complex of phosphorous-32-labeled, preparation of, using chromium hydroxide and gelatin, 21:24345
  content of soils, effects of on strontium-90 uptake by oats, 23:50304
  distribution of phosphorus-32-labeled, in roots of barley, effects of microorganisms on, 22:21414
  effects of, on content of strontium-85 in milk secreted by cows and goats, 21:17992
  effects on calcium-45 uptake by collagens in vitro, 21:43351
  effects on leachability of radium from uranium ores, 22:25478
  effects on ratio of calcium-47 to strontium-85 in gut of rats, 23:801
  polymers, radiation effects on polymerization of glasses of, ESR studies on, 22:4180
  preparation of monocrystalline KPO_3, 24:3039
  properties of aqueous solutions of, to increase effectiveness of reactor emergency core cooling systems, 23:28492 (SNE-50)
  radiation effects at liquid nitrogen temperature, distribution of phosphorus-32-labeled anions produced by neutron, 24:13978
  radiation effects on (KPO_3)/sub n/, ESR studies on γ, 24:25088
  radiation effects on ESR spectra of crystalline, relation of oxygen vacancies to gamma, (E), 22:20046
  radiation effects on, effects of, on yeasts, x, 22:28720
  radioinduced thermoluminescence of, effects of phase transitions on x, 22:16593
  radioprotective effects of, on spores of Aspergillus niger, uv, 23:31998
  uptake of phosphorus-32-labeled, by rats, effects of chain length on, 21:10728 (TID-23458)
  KPO_3—$NaPO_3$, electrochemistry of copper, silver, uranium, and vanadium in, 21:1329 (SC-CR-66-2104)

POTASSIUM PHOSPHOROFLUORIDATES
  radiation effects on, ESR studies on x, 24:9381

POTASSIUM PHOSPHORUS FLUORIDES
  fluorine-19 NMR in, effects of temperature on, 24:9381
  spectra of solid, ir and Raman, 21:45210 (ORNL-4164, pp 24-34)

POTASSIUM PLATINUM CHLORIDES
  K_2PtCl_6—K_2TcCl_6, technetium-99 paramagnetic electron resonance spectra in, 21:27966

POTASSIUM PLATINUM THIOCYANATES
  sulfur-35 exchange between platinum thiocyanate complexes and, 22:10290

POTASSIUM PLUTONIUM FLUORIDES
  crystal structure, 21:3038
  crystal structure of $K_7Pu_6F_{31}$, 22:2080

POTASSIUM PLUTONIUM OXALATES
  solvent properties for sodium oxalate at 25°C, 23:4635

POTASSIUM PRASEODYMIUM FLUORIDES
  praseodymium-141 Moessbauer spectra in, 25:36344

POTASSIUM PRASEODYMIUM OXIDES
  preparation and crystal structure of, 21:15897

POTASSIUM PROTACTINIUM FLUORIDES
  crystal structure of, 21:45126
  crystal structure of K_2PaF_7, 21:8317
  crystal structure of $K_7Pa_6F_{31}$, 22:2080
  decomposition, 21:8318
  preparation and crystal structure of, 21:15906
  preparation and properties of, 21:8313
  preparation and structure of, 21:8306
  reactions of, with sodium fluorides, 21:8318
  spectra of, diffuse reflectance, 21:8318
  spectra of, infrared and NMR, 21:8313

POTASSIUM PROTACTINIUM OXIDES
  preparation and structure of, 21:8315

POTASSIUM PYROPHOSPHATES
  reactions with americium in solution to stabilize higher oxidation states, 24:9344
  reactions with americium, reduction, 23:28852
  $GdCl_3$—H_2O—$K_4P_2O_7$, phase studies on solids in, 21:62

POTASSIUM PYROSULFITES
  effects on radioinduced oxidation of pharmaceuticals, 25:18472
  radiolysis of solid, effects of oxygen-17 on ESR spectra of SO_2^- radical from, 25:4124

POTASSIUM RHENATES
  neutron reactions (n,γ) in, chemical state of radioactive rhenium from, 23:9471
  superconducting transitions in, (E), 23:18557

POTASSIUM RHENIUM BROMIDES
  bromine-80g recoil mechanisms in crystal lattices of, in isomeric transition from bromine-80m, 24:48117
  thermal capacity of, at low temperature, 21:45089 (ORNL-4164, pp 101-44)
  K_2OsCl_6—K_2ReBr_6, radiation effects from neutron reactions with rhenium-185 in, 21:45157
  K_2ReBr_6—K_2ReCl_6, neutron reactions (n,γ) with bromine-81 in, chemical state of bromine-82 from, 24:219
  K_2ReBr_6—K_2ReCl_6, radiation effects on mixed crystals of, effects of thermal annealing on neutron, 23:2358
  K_2ReBr_6—K_2SnCl_6, gamma reactions (γ,n) in homogeneous crystals of, chemical effects of, 23:28911
  K_2ReBr_6—K_2SnCl_6, radiation effects on, production of recoil rhenium-186 in γ, 24:9409
  K_2ReBr_6—K_2SnCl_6, radiation effects on, role of recoil rhenium-186 in neutron, 23:21730(T) (NP-tr-1751)

POTASSIUM RHENIUM CHLORIDES
    see also Potassium Chlororhenates
  neutron reactions (n,γ) in, chemical state of radioactive rhenium from, 23:9471
  oxidation of, standard enthalpy of, 21:1326 (ORNL-3994, pp 106-44)
  radiation effects on, chemical states of radioactive rhenium produced from proton, 24:38947
  thermodynamic properties of, 21:1326 (ORNL-3994, pp 106-44)
  K_2ReBr_6—K_2ReCl_6, neutron reactions (n,γ) with bromine-81 in, chemical state of bromine-82 from, 24:219
  K_2ReBr_6—K_2ReCl_6, radiation effects on mixed crystals of, effects of thermal annealing on neutron, 23:2358

POTASSIUM RHENIUM IODIDES
  thermal capacity of, at low temperature, 21:45089 (ORNL-4164, pp 101-44)
  thermodynamic properties of, at 6 to 320 deg K, 21:1326 (ORNL-3994, pp 106-44)
POTASSIUM RUTHENATES
  ruthenium-99 Moessbauer isomer shifts in, 25:1335
POTASSIUM RUTHENIUM CHLORIDES
  ruthenium-99 Moessbauer isomer shifts in, 25:1335
POTASSIUM RUTHENOCYANIDES
  ruthenium-99 Moessbauer isomer shifts in, 25:1335
POTASSIUM SELENATES
  radiation effects on single crystals of, ESR study of γ, 24:42755
  radioinduced radicals in crystals of, ESR of gamma, 23:27686
POTASSIUM SELENOCYANATES
  reactions with thorium chloride, effects of solvent on complexes formed by, 22:8073
POTASSIUM SILICATES
  performance as protective coating for titanium, zirconium, or their alloys, 22:41009(P)
  radiation effects at 78°K on glasses of, absorption-center formation from ^{60}Co γ-, (E), 25:17270(T) (BNWL-tr-62)
  radiation effects on glasses of, EPR spectra of γ, 22:33393
POTASSIUM SODIUM NIOBATES
  sintering behavior of, 25:42957 (UCRL-20500, pp 147-73)
  sintering characteristics of, 24:53073 (UCRL-19668)
POTASSIUM SODIUM TARTRATES
  dielectric constant of gamma irradiated, microwave, 21:33021
  ferroelectric properties of Rochelle salt, NMR studies, 23:14907
  polarization in ferroelectric transition in, NMR study of spontaneous, 25:3221
  radiation damage in, bibliography on, 21:7853 (AD-635088)
  radiation damage in, relation to use of x rays for structure studies, x, (E), 22:20053
  radiation effects on absorption spectrum of Rochelle salt crystals, effects of dissolution in water on x, 24:47314
  radiation effects on Barkhausen effect in crystals of, dose dependence of x, 23:16879
  radiation effects on Barkhausen effect in crystals of, x-, 25:11978
  radiation effects on Barkhausen effect in crystals of, γ and x, 22:18843
  radiation effects on coercive force of Rochelle salt crystals, high-dose gamma, 25:45577
  radiation effects on electric conductivity of crystals of, gamma, 24:1471
  radiation effects on ferroelectric properties of, up to 10 Mrad, (E), 21:33523
  radiation effects on growth of crystals of, gamma, 24:21873
  radiation effects on polarization in ferroelectric and nonferroelectric, γ-, 25:3221
  radiation effects on seignettoelectric properties of crystals of, γ, 22:18842
  radiation effects on spontaneous polarization in ferroelectric Rochelle salt, sodium-23 NQR study of gamma, 22:48160
  radiation effects on ultrasound speed in Rochelle salt crystals, gamma, 24:26295
  radioinduced defects in Seignette salt, temperature effects on gamma, 23:21001
  radioinduced mechanical property changes in, gamma, 22:11493(T) (JPRS-42628, pp 30-42)
  radioinduced radicals in single crystal, ESR study of structure of gamma, 22:7359
  radioinduced radicals in single-crystal, ESR study of structure of gamma, 22:52876
  radiolysis of, 24:39726
POTASSIUM SODIUM THORIUM FLUORIDES
  crystal structure of, 22:25328 (ORNL-4229, pp 50-67)
  crystal structure of $KNaThF_6$, 25:6328
POTASSIUM SODIUM URANIUM CHLORIDES
  enthalpy of formation of $KNaUCl_6$ in potassium chloride—sodium chloride—uranium tetrachloride system, 24:48081
Potassium Space
    see Extracellular Space
POTASSIUM STRONTIUM FLUOROURANATES
  spectra of, reflectance, 23:33202
POTASSIUM STRONTIUM URANIUM OXYFLUORIDES
  preparation and properties of, 23:28814
POTASSIUM SULFATES
    see also Potassium Acid Sulfates
    see also Potassium Aluminum Sulfates
    see also Potassium Ethyl Sulfates
    see also Potassium Thorium Sulfates
    see also Potassium Uranyl Sulfates
  activity coefficient of, in aqueous solutions of pyridine and pyridinium salts, 23:103 (ORNL-4306, pp 73-105)
  analysis for rare earths by x-ray fluorescence spectrometry, 24:41178 (JEN-214-DQ/I-76)
  analysis for trace amounts of bismuth using iodide ions, indirect method for colorimetric, 23:49696
  chemical properties of, and MHD seeding problems, 21:37242
  chemical properties of, for MHD generator seed, 22:5200
  corrosive effects of aqueous solutions of, on aluminum—molybdenum—titanium—vanadium alloy, 25:29765
  corrosive effects of oxygenated, on crystal-bar zirconium, 21:26753 (ORNL-TM-1834)
  decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
  dissociation potential of, used for seeding MHD generators, 24:45078
  effects as seed on combustion products of methane and residual oil in air, 22:26275
  effects of deuterated, on deuterium exchange between water-d_2 and ketones, NMR studies on catalytic, 21:14212
  effects on growth of niobium films on niobium at 200°C, electrochemical measurements on, 21:28755 (ORNL-TM-1883)
  effects on growth of porous anodic oxide films on Zircaloy-2, 24:25056
  effects on oxidation of hexavalent neptunium ions, 22:48846(T) (ANL-Trans-670)
  effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
  effects on reactions of 2-butanol or 2-butene with sulfuric acid, 23:6131
  effects on yields in radiolysis of aqueous solutions, 22:23034 (IA-1128, pp 78-96)
  enthalpy measurements on solid, equations for, 23:105 (ORNL-4306, pp 120-30)
  phase transitions in, calorimetric studies of, 21:1325 (ORNL-3994, pp 95-105)
  radiation effects on chemical bonding and lattice defects in, ir spectral studies on, 23:47468
  radiation effects on monocrystals of, ESR studies on x, 22:47162
  radiation effects on sulfur isotopic exchange between, and sulfur trioxide, 21:24035
  radiation effects on surface charge of, method for measuring β and γ, using metal sol, 22:30612
  radiation effects on surfaces of crystals of, etching studies on β and γ, 24:221
  radiation effects on trivalent chromium-51-doped, conversion to chromate(VI) by uv or γ, 25:51488
  radiation effects on, chemical states of sulfur-35 recoil products from neutron, 23:37992
  radiation effects on, yields of recoil phosphorus-32 from neutron, 25:26318
  radioinduced defects in crystals of, EPR studies on γ, 22:23059
  radioinduced paramagnetic centers in single crystals of, analysis of ESR spectra of x- and uv-, 24:6619
  reactions of, with uranyl ions at 20°C, 21:12409
  silver sulfate activity coefficients in solutions of, 21:45087 (ORNL-4164, pp 57-82)
  solubility in water at eutectic temperature to 60°C, effects of deuterium on, 23:45284
  sulfur-35 beta decay in, ir studies of defects from, 21:24056
  sulfur-35 isotopic exchange between crystalline—solution system of, effects of solid phase radioactivity on, 22:2041
  surface charge of sulfur-35-labeled, method for measuring, using metal sol, 22:30612
  yields of, in gamma radiolysis of potassium iodide in liquid sulfur dioxide solutions, mechanism of, 21:3104
  I^-—$KHSO_4$—KI—K_2SO_4, radiolysis of deaerated solutions of, at 20°C, mechanism and yields from γ, 23:47479
  K_2SO_4—Li_2SO_4, cation mobility and transport numbers in electrolysis of, isotope effects on, 21:14222
  K_2SO_4—Li_2SO_4, diffusion in molten, isotope separation in thermal, 24:7491
  K_2SO_4—Li_2SO_4, electromigration of ions in, effects of lithium and potassium isotopes on, 23:4609
  K_2SO_4—V_2O_5, phase diagram of, 25:11527
POTASSIUM SULFIDES
  diffuse transition and melting in, 22:23013
  heat content and entropy of, from 298 to 1260°K, 22:23013
POTASSIUM SULFITES
  complexes with thorium oxalates, preparation and properties of, 21:19606
  complexes with uranyl oxalates, preparation and properties of, 22:10256
  radioprotective effects of, against decomposition of atropine, 22:4721
  H_2O—K_2SO_3—$Th(NO_3)_4$, physicochemical properties of, 21:38951
POTASSIUM TANTALATES
  preparation and phase relations of monocrystals of, 23:27198
  preparation and structure of single-crystal K_3TaO_4, 22:49811
POTASSIUM TANTALUM FLUORIDES
  reduction by sodium to prepare capacitor-grade tantalum powder, 25:32657
POTASSIUM TARTRATES
    see also Potassium Sodium Tartrates
POTASSIUM TECHNETATES
  spectra of, infrared and Raman, 21:32166
  thermodynamic properties of, 21:1326 (ORNL-3994, pp 106-44)
POTASSIUM TELLURATES
  analysis for iodine by neutron activation, 24:27028
  effects on isomeric conversion of metastable tellurium-127, 23:371
  radiolysis at 77 and 300°K, ESR spectra of radicals from γ, 21:25893
POTASSIUM TERBIUM OXIDES
  preparation and crystal structure of, 21:15897
POTASSIUM TETRABORATES
  corrosive effects on aluminum, measurement of, 22:32789(R) (WAPD-MRP-124)
POTASSIUM TETRAPHENYLBORATES
  effects on production of phenylxenonium ions by beta decay of iodine-131 in iodobenzene, 23:6192
POTASSIUM TETRATHIONATE
  thermal capacities of, 22:10204(R) (COO-1149-102)
  thermal capacity of, 23:9347(R) (COO-1149-136)
POTASSIUM THIOCYANATES
  corrosive effects on carbon steels, stainless steels, and titanium of fused, relations with anodic passivation, 23:24798
  density in methanol, estimation of partial molal volumes from, 24:11505 (IA-1190, pp 133-81)
  diffusion of water molecules in aqueous solutions of, kinetics of, 23:6093(R) (NP-17690)
  effects on electrochemical behavior of uranyl ions at 185°C, 23:7537
  effects on iodine-131 uptake by thyroid gland and thyrotropin content of pituitary gland of catfish, 23:50288
  effects on solvent extraction of niobium from sulfuric acid solutions, 24:33772
  effects on yields from electron pulse and γ radiolysis of aqueous solutions of phenyl glucopyranoside, 25:26304
  intermolecular frequencies of water molecules in aqueous solutions of, slow neutron inelastic scattering measurements on, 23:6093(R) (NP-17690)
  metal content in fused, effects of time on, 23:15855
  radiochemical transformation of, at 77°K, 21:23975
  radioinduced reactions with heptene and hexene to produce esters, γ and x, 22:37804
  radiolysis of aqueous, study of absorption produced by pulse, 23:239
  radiolysis of, yields from gamma, 22:37805
  radioprotective effects of, on extra-thyroidal and thyroid tissues in man and rats, iodine-131 β and γ, 23:24694
  reactions of, with thorium tetrachloride in acetone, dimethylformamide, or methanol, complex formation in, 21:75
  reactions of, with uranyl and vanadyl ions at 20°C, 21:12409
  solvent properties for molybdenum, tungsten, and vanadium in presence of 2-furaldehyde, 24:16660
  solvent properties of fused, for metal ions, 23:19717
  spectra of ^{60}Co γ-irradiated single-crystal, at 77°K, EPR, (E), 23:42403
  thermal capacity of, 23:9347(R) (COO-1149-136)
  KCNS—NaCNS, separation of holmium, lutetium, terbium, and thulium from molten, by solvent extraction using dioctylamine thiocyanate, 24:11505 (IA-1190, pp 133-81)
POTASSIUM THORIUM ACID NITRATES
  structure of crystalline hydrates of, ir spectral studies on, 22:12300
POTASSIUM THORIUM FLUORIDES
  crystal structure, 25:57298 (ORNL-4676, pp 73-138)
  crystal structure of $K_7Th_6F_{31}$, 22:2080
POTASSIUM THORIUM FORMATES
  preparation and properties of, 22:33322
  spectra of, ir, 22:37764
POTASSIUM THORIUM NITRATES
  structure of crystalline hydrates of, ir spectral studies on, 22:12300
POTASSIUM THORIUM OXALATES
  compounds with phosphoric acid, preparation and properties of, 24:27055
  crystal structure of hydrated, 23:35110
POTASSIUM THORIUM OXIDES
  preparation and crystal structure of, 21:15897
POTASSIUM THORIUM PHOSPHATES
  crystal structure of, 23:142
  preparation of, 23:142
  structure of, x-ray studies on, 23:13722
POTASSIUM THORIUM SULFATES
  crystal structure of hydrated, 21:3066
  spectra of hydrous, infrared, 21:19620
  thermal decomposition of, thermogravimetric studies on, 21:5853
POTASSIUM THORIUM SULFITES
  stability of hydrated, thermal, ir, and NMR studies of thermal, 22:8074
POTASSIUM TIN CHLORIDES
  K_2ReBr_6—K_2SnCl_6, gamma reactions (γ,n) in homogeneous crystals of, chemical effects of, 23:28911
  K_2ReBr_6—K_2SnCl_6, radiation effects on, production of recoil rhenium-186 in γ, 24:9409
  K_2ReBr_6—K_2SnCl_6, radiation effects on, role of recoil rhenium-186 in neutron, 23:21730(T) (NP-tr-1751)
POTASSIUM TIN OXALATES
  tin-119m isomeric transition in, Moessbauer spectroscopic studies on, 23:36802
POTASSIUM TITANATES
  book: Advanced Materials Refractory Fibres, Fibrous Metals, Composites, 24:14868
POTASSIUM TITANIUM OXALATES
  separation of calcium and strontium from neutron-irradiated, by solvent extraction, 25:37447
POTASSIUM TUNGSTATES
  tungsten oxide content in, β radiometric method for determining, 21:26288
POTASSIUM TUNGSTEN BRONZE
  analysis by activation methods, 21:35844 (IS-T-156)
  analysis for potassium by neutron activation and γ spectrometry, 25:46453
  analysis for potassium by neutron activation methods, 24:13776 (IS-T-341)
  analysis of, for potassium by activation methods, 21:2979
  superconducting transition temperature of acid-etched, 21:27090
POTASSIUM URANATES
  covalency in KUO_3, oxygen-17 NMR study of, 25:43497
  crystal structure of, diffraction and ir spectroscopic studies of, 24:11534
  lattice vibrations of K_2UO_4, uranium—oxygen, 24:46233
  preparation and crystal structure of, 25:15569
  solubility in barium uranate at 550 to 850°C, 24:3040
  spectra of, reflectance, 23:33202
  $BaUO_3$—KUO_3, phase studies, 24:3040
POTASSIUM URANIUM CHLORIDES
  enthalpy of formation of $KUCl_5$ and K_2UCl_6 in potassium chloride—sodium chloride—uranium tetrachloride system, 24:48081
  K_2UCl_6—NaCl, phase studies of, thermographic and x-ray diffraction, 25:771
POTASSIUM URANIUM FLUORIDES
  crystal structure of, 22:25328 (ORNL-4229, pp 50-67)
  crystal structure of, 24:36205 (ORNL-4586, pp 1-32)
  crystal structure of beta-K_2UF_6, 24:11514
  crystal structure of $K_7U_6F_{31}$, 22:2080
  crystal structure of KU_2F_9, 24:2175

  - decomposition of, kinetics of, 21:19640
  - preparation and structure of, 21:8306
  - preparation of, 22:30517
  - spectra of KUF_6, paramagnetic resonance, 22:18769
- POTASSIUM URANIUM OXALATES
  - complex ions of, in potassium oxalate solutions, ion exchange method for measuring size of charge of, 22:30567
  - properties of solutions of, 24:38854
- POTASSIUM URANIUM SULFATES
  - magnetic moments of hydrated, 23:185
  - preparation of anhydrous, 22:16494
  - preparation of hydrated, 23:185
  - spectra of hydrated, ir and reflectance, 23:185
- POTASSIUM URANIUM SULFIDES
  - crystal structure of KUS_3, 23:21697
- POTASSIUM URANIUM TUNGSTATES
  - preparation and properties of, 25:23556
- POTASSIUM URANYL BROMIDES
  - spectra of, ir, 22:2042
- POTASSIUM URANYL CARBONATES
  - binding energy of oxygen—uranium bond in, valence oscillations for measurement of, 23:35069
  - spectra of, combined scattering, 24:38867
- POTASSIUM URANYL CHLORIDES
  - bonding and interactions in, ir spectral studies on, 22:12299
  - spectra of diuranyl ion in hydrated, fluorescence and ir, 24:4284
  - spectra of, infrared, 21:1337
  - spectra of, ir, 22:2042
  - stability of, effects of temperature on, 21:1337
- POTASSIUM URANYL FERROCYANIDES
  - structure of, electron-graphic and electron-microscopic studies on, 22:35825
- POTASSIUM URANYL FLUORIDE PEROXIDES
  - preparation and thermal stability of, 21:32173
- POTASSIUM URANYL FLUORIDES
  - binding energy of oxygen—uranium bond in, valence oscillations for measurement of, 23:35069
  - luminescence at 77°K, 24:38866
  - oxygen—uranium bond distance in, estimation of, from infrared spectra, 22:27713
  - spectra of, combined scattering, 24:38867
  - spectra of, infrared, 25:31950
  - spectra of, ir, 22:14489
  - spectra of, ir, 23:6101
  - spectra of, ir absorption, 23:31354
  - structure of, infrared spectral studies on, 23:7513
  - thermal decomposition of, formed in potassium fluoride—uranyl fluoride—water system, 23:21715
- POTASSIUM URANYL MOLYBDATES
  - preparation and properties of, 25:20974
- POTASSIUM URANYL NITRATES
  - spectra of crystals of, absorption, 24:4263(T) (UCRL-Trans-10394)
  - spectra of, combined scattering, 24:38867
  - spectra of, ir and Raman, 25:2212
  - spectra of, ir and Raman, 23:21684
- POTASSIUM URANYL OXALATES
  - complexes with urea, properties and structure of, 21:42944
  - preparation and properties of, 24:16497
- POTASSIUM URANYL OXIDES
  - oxygen—uranium bond distance in, estimation of, from infrared spectra, 22:27713
- POTASSIUM URANYL PROPIONATES
  - optical activity of crystals of, dispersion of, 24:27054
- POTASSIUM URANYL SULFATES
  - effects on luminescence of fluorinated glass, 22:8832
  - fluorescence decay of, 22:37738
  - fluorescence decay of, temperature dependence of, 25:1323
  - fluorescence lifetimes of, effects of heavy water and impurities on, 25:2198
  - fluorescence of, effects of deuterium from heavy water on, 22:42667
  - photoinduced luminescence of crystals and frozen solutions of, using ruby laser, 24:48093
  - spectra of, ir and luminescence, 22:12304
  - spectral studies on, use of, in chemical analysis, 22:12304
- POTASSIUM YTTRIUM FLUORIDES
  - K_2BeF_4—K_3YF_6, phase diagram of, 22:45079
- POTASSIUM ZINC FERROCYANIDES
  - structure of, electron-graphic and electron-microscopic studies on, 22:35825
- POTASSIUM ZINC SULFATES
  - crystal structure of, 23:142
  - preparation of, 23:142
  - radiation effects on Tutton salt, γ, 23:35132(R) (NYO-1158-32)
  - reactions with copper ions, 23:35132(R) (NYO-1158-32)
- POTASSIUM ZIRCONIUM FLUORIDES
  - reduction by liquid metal-fused salt process, 23:975
  - reduction by reactions with carbon for production of mixed carbide fuels, flowsheets for, 23:20540(P)
  - KBF_4—K_2ZrF_6, properties of fused boron oxide—zirconium oxide bath of, for electrodeposition of zirconium diboride, 24:39697
  - KCl—K_2ZrF_6, reactions of melts of, with zirconium at 800°C, 24:51142
- Potatoes (Solanum)
    - see Solanum under Angiospermidae
- Potatoes (the commodity)
    - see potatoes under Vegetables
- POTENTIOMETERS
  - control of, design of equipment for, 22:14900
  - design of +- 24 V, for use with controlled potential coulometer, 21:24154
  - design of digital, for hybrid computer, 23:40517 (RISO-M-914)
  - setting in EAI 680 analog computer, control interface system for using PDP-8 digital computer for, 23:2698 (RISO-M-768)
  - setting in EAI 680 analog computer, program for PDP-8 digital computer for automatic, 23:2697 (RISO-M-767)
- POTENTIOMETRIC ANALYSIS
  - bibliography on, 1968-69, 24:26962
  - developments in, review on, 22:25302
  - electrode conditioning treatments in, 21:12282 (EUR-3118.f)
  - equipment for end-point detection in bipotentiometric titrations, 23:9300 (ORNL-4343, pp 1-10)
  - methods for determination of noble metals, review of, 23:17334
  - sensitivity for trace substances, 21:38876 (ORNL-P-3261)
- Potting Compounds
    - see Sealing Materials
- POWDER METALLURGY
  - bibliography on hydrostatic and isostatic pressing, 25:6839 (CEA-Bib-187)
  - book: New Methods for the Consolidation of Metal Powders, 21:41564
  - book: Powder Metallurgy, 21:30949
  - book: Powder Metallurgy of Electrical Contacts, 22:49703
  - book: Reactor Materials. Part 2. Ceramic and Powder-Metallurgy Materials (In German), 23:45987
  - book: Researches in Powder Metallurgy, 21:14814
  - book: Techniques of Materials Preparation and Handling, Vol. 1, part 1, 23:5069
  - book: Techniques of Materials Preparation and Handling, Vol. 1, part 3, 23:5068
  - book: Vibratory Compacting: Principles and Methods, Volume 2, 22:2564
  - cermet preparation method, 21:3540(P)
  - compacting metal powders into rods and tubes, design of mold for, 21:43118(P)
  - compacting of ceramics and metals at high temperatures, by isostatic hot pressing, 22:36440(T) (EURFNR-473)
  - compaction and extrusion operations in, development of die stabilizing and lubricating system for, 24:21338(R) (SRO-475-5)
  - compaction of unheated powders at high velocities in small press, 22:43562
  - compaction operations in, research progress on, 25:23485(R) (SRO-475-10)
  - compaction research at South Carolina Univ, 25:12913(R) (SRO-475-9)
  - comparison with granule metallurgy, 25:55404
  - conference on, 23:48520
  - conference on, 23:48544
  - conference on developments in, Dresden, Sept. 23 to 26, 1969, 24:21381
  - conference on developments in, Dresden, Sept. 23 to 26, 1969, 24:21377
  - conference on modern developments in, New York, July 12 to 16, 1970, 25:55411
  - conference on modern developments in, New York, July 12 to 16, 1970, 25:55481
  - conference on role of, in nuclear technology, London, Nov. 16 and 17, 1967, 22:6950
  - conference on, 2nd international, at Stary Smokovec, Czechoslovakia, Sept. 1966, Vol. I, 21:41645
  - conference on, 2nd international, at Stary Smokovec, Czechoslovakia, Sept. 1966, Vol. II, 21:41530
  - conference on, New York, May 5 to 7, 1969, 24:39601
  - conference on, Stuttgart, Germany, May 8 to 10, 1968, 24:27845
  - conference on, Stuttgart, Germany, May 8 to 10, 1968, 24:27737
  - conference on, Stuttgart, Germany, May 8 to 10, 1968, 24:27817
  - conference on, Stuttgart, Germany, May 8 to 10, 1968, 24:27841
  - development, 21:41531
  - development, 21:41532
  - development, 21:41634
  - development and uses of, 21:13133
  - development at Deutsche Edel-stahlwerk, review on, 23:46016
  - development review, 22:34022
  - developments in, 25:22042
  - developments in and present state of, review, 22:49682
  - developments in, review of recent, 22:34020
  - economic aspects of use of, 21:30949
  - fabrication and properties of superalloys, 22:10978
  - fabrication by isostatic pressing at high temperatures, 21:4928(P)
  - fabrication of refractory composites by pneumatic impaction, 21:1928 (BNWL-SA-482)
  - fabrication techniques for reactor materials, development of, 21:40711
  - fabrication techniques, use of high pressure for, 22:49702
  - galling behavior during compaction processes, bibliography on, 21:43566(R) (SRO-133)
  - history of, brief, 21:30949
  - isostatic pressing methods, review of, 21:41565
  - liquid atomization method for preparing fine-grained alloy and oxide powders, 21:39558 (N-67-19961)
  - lubrication in compaction, research program on, 24:10018(R) (SRO-475-4)
  - materials for, characterization of, 22:38534 (LA-3894)
  - mechanisms of compacting powders, equations for pressure, 22:10987(T) (UCRL-Trans-10186)
  - method for compacting radiation targets, 21:26788(P)
  - method for compaction using pressure and vibration, 24:34855(R) (SRO-475-7)
  - method for fabricating ceramic fuel elements, 22:8814(P)
  - method for fabricating cermets, equipment and procedure for isostatic hot pressing, 22:49813
  - method for fabrication of articles from powdered metals, 24:8073(P)
  - method for fabrication of fuel elements of uniform density and thickness, 22:7052(P)
  - method for fabrication of HFIR fuel elements, 22:632 (ORNL-4108)
  - method for forging of preforms in closed dies, review of, 25:42829
  - method for isostatic hot pressing of powders, 22:34099 (KFK-708)
  - method for powder compaction using vibration, 24:48807(R) (SRO-475-8)
  - method for preparing composite materials for high temperature bearings, 23:14395 (RD/B/N-1193)
  - method of fabrication using isostatic hot-pressing, 23:30171
  - method of sintering metal powder particles having inert surface films, 22:4761(P)
  - methods for consolidation and fabrication of metals and metal—nonmetal aggregates and particles, 25:27205 (INIS-mf-19)
  - methods for consolidation of refractory metals, 23:27041
  - methods for fabricating reactor fuel elements, 22:27960
  - methods for fabrication of reactor materials, review on, 24:44687
  - methods for fabrication of shapes used in nuclear technology, review on, 24:2898
  - methods for finely-divided alloys, carbides, metals, and oxides, 22:28730(P)
  - methods for metal matrix—fiber composites, 22:41023
  - methods for nuclear materials fabrication, 21:30306
  - methods for reactor materials fabrication, review of, 22:217
  - methods for reactor materials, review of, 22:21676
  - methods for reactor materials, review on, 23:20494
  - methods for reactor materials, review on, 23:41536
  - methods for shaping precipitation-hardenable stainless steels by, 22:19490 (NASA-SP-5086)
  - methods for slip casting powdered superalloys, 22:34005
  - methods for superalloy powders, 22:34048
  - methods for use in materials science, review of improved, 25:45028
  - pressing bags for, fabrication of plastic, 21:18360 (Y-1574)
  - processing by isostatic compaction, review on, 23:30137
  - production and properties of nuclear materials formed by, review of, 22:38602(T) (JPRS-45339)
  - properties of hot pressed steatite bodies, (E), 22:34098 (JEN-190-DMe/1-18)
  - research on, review of, 22:8719
  - research progress on, 25:44292(R) (SRO-475-11)
  - review on, 23:45992
  - use in production of components for reactor cores, 22:6951
  - use of scanning electron microscopy in research on composite materials fabricated by, 22:49838 (AWRE-O-43/68)
  - uses in nuclear technology, 22:41014
  - variables affecting sintered ferrous parts, 22:34005
- POWDER RIVER BASIN (WYO.)
  - uranium deposits in, iron selenide content of, 22:27930
- POWDERS
    - see also Particles
  - analysis by mass spectrometry, methods of sample pressing for, 23:31284 (Y-1676)
  - analysis for boron, radiometric methods for, 22:27898
  - analysis of metallic, methods for, 22:37679
  - analysis of, in mixture with lithium compound for oxygen by triton activation methods, 21:12330
  - analysis of, instrument for radiometric, 23:31571(P)
  - beta scattering by, effects of particle size on, 22:33614
  - bibliography on packing of, 21:42834 (MLM-1424)
  - bibliography on production of metallic, by atomization, 24:21346 (SC-B-68-298)
  - book: 1969 Book of ASTM Standards, with Related Material. Part 7, 24:14202
  - characteristics of, statistical evaluation of Coulter counter, Sedibal sedimentation balance, and Fisher sub-sieve sizer for determining, 23:17301 (MLM-1580)
  - coagulation of grains of microdispersed, in nuclear emulsions, prevention of, 23:16103
  - compacting nuclear fuel, design of equipment for densely, 22:6520(P)
  - compaction of ceramic and metal, bibliography on vibratory, 21:20478 (AERE-Bib-153)
  - crystal structure of, detection of errors in ASTM magnetic tape file on, 24:29944 (SCL-DR-70-48)
  - crystal structure of, determination from α-ray patterns using computers, 21:26842
  - density of flowing, in reservoir, radiometric gage for measuring, 25:57872(P)
  - density of, design of instrument for measuring, 21:12(R) (UCID-15014)
  - density of, equipment for measuring, 22:30436(R) (UCRL-50006-68-1)
  - density of, pneumatic bridge analyzer for measurements of, 21:10310 (K-1684)
  - echo phenomena in normal and superconducting metal, (E), 22:31747
  - effect on operation of ionization chamber flue—gas indicator, 21:4705
  - electric charges on, use of beta sources for removal of static, 23:35436
  - electric charges on, use of beta sources for removal of, 23:35423
  - fabrication by vibration compaction, 22:7052(P)
  - fabrication into shapes by isostatic pressing using graphite pressure transfer media, 21:1884(P)
  - fabrication of refractory metal, using magnetic fields, 21:9099(P)
  - fabrication of, high-pressure, 21:39616 (NP-16905)
  - fluidization of, method for contacting reacting gases by, 21:3542(P)
  - formation of spheres of, by shaking three-phase liquid—liquid—powder, 23:24821(P)
  - friction condition in uncompacted metal, relations with powder density, 22:10968
  - gamma ray absorption in, shape of Moessbauer spectra for, 21:19301
  - handling of radioactive fuel, machine for, 21:6862
  - heat treatment using plasma, equipment and method for, 23:14381(P)

irradiation of, design of mobile equipment for uniform, 23:518(P)
irradiation of, equipment for uniform, 21:39100(P)
irradiation of, method for uniform, 23:24262
neutron coherent scattering amplitudes for, from small-angle measurements on liquid—powder mixtures, (E), 23:10924
neutron diffraction by, experimental facilities of Tohoku Univ. electron linear accelerator for investigating Debye—Scherrer patterns in, 23:30881
neutron diffraction by, structure refinement method using profile intensities from, 23:27695 (RCN-104)
particle size analysis of, performance of beta source—scintillation detector system with centrifugal sedimentation apparatus for, 23:22107
particle size distribution in compacted, use of Fisher equipment for determining, 25:4184(T) (LA-4404-TR)
particle size distribution in suspensions of, photosedimentation method for measurement of, 25:52354
particle size distribution measurements in suspension, x-ray sedimentometer for, 24:46528
particle size distribution of, reading schedule for MSA particle size analyzer for determining, 21:30740 (LA-3692)
physical properties of, effects on densification and microstructure of ceramics, 23:1044
preparation and examination of hazardous, electron microscopy facility for, 24:27321
preparation for x-ray diffraction, encapsulation method for, 22:10935
preparation of fine, conference on, 23:29954
preparation of finely-divided alloy, carbide, metal, or oxide, process for, 22:28730(P)
preparation of metallic, process for, 21:14814
preparation, molding, and sintering of, conference on, 21:41645
production of fine metal—metal oxide, Microgel process for, 25:55419
production of metal, of low particle size-high surface area, 21:39606(P)
production of small particle size metal, with high surface area, 22:12996(P)
properties of dry, for combating fires of magnesium, misch metal, sodium, uranium, comparison of effectiveness of, 25:42837 (AERE-R-6745)
properties of fine, conference on, 23:29954
radioinduced luminescence in monocrystalline, design of spectrophotometer for observation of, 21:36429
radioinduced molecular grafting sites in natural and synthetic, for enhancement of economic properties, cobalt-60 γ, 22:23692 (AECL-2706, pp 50-9)
radioinduced sintering of, review of, 23:48578
reactions with bromine pentafluoride, 23:40614 (K-1753)
sampling equipment for, design of, 24:16747(P)
shaping of metal, methods of, 21:30949
shock tube studies of mixtures of gases and, 21:34542
sintering mechanisms of, effects of particle density distribution and characteristics on, 25:58389(R) (SRO-552-8)
sintering method and mold for compacting, 22:638(P)
sintering of metal, description of methods of, 21:30949
size measurement of metal, 21:3478
specifications and standards for refractory, methods of establishing, 22:38534 (LA-3894)
specifications for molding, for use in high explosives, 22:14400 (UCID-15258)
spraying of alloy, method for flame, 23:44004 (INR-1028)
spraying of mixed cermet, method for flame, 23:44004 (INR-1028)
storage in silos, measurement of pressure stresses from, 23:35358 (EUR-4190, pp 255-74)
structure factors for, fixed-scattering-angle neutron spectrometer for determining, 22:14822 (RISO-164)
surface area measurement of metal, 21:3478
surface area of, low-pressure permeametry measurements of specific, 21:26808
surface friction in, effects of particle size distribution on, 24:19428
thermal conductivity of gas phases in packed, DTA techniques for determining, 21:17611 (UCRL-16418)
thermal conductivity of, for use as insulators in reactor pressure tubes, 23:5088 (EIR-138)

POWELLITE
reactions of synthetic, with acidic solutions of uranyl nitrate, yields of metastable and stable iriginites from, 25:48671
reactions with nitric acid, kinetics of, 23:9531
separation of molybdenum from, by extraction using nitric acid, 23:9531

POWER
see also Electric Power
see also Nuclear Power
see also Reactors, Power
see also Solar Power
see also Tidal Power

POWER BURST FACILITY
acoustic filter performance simulation for, use of analog computer for, 23:4272(R) (IDO-17264)
acoustic filters for, design parameters and operation aspects of, 25:51158 (IN-ITR-201)
control and safety system of, use of analog computer model for design of, 21:34523 (ORNL-4091, pp 136-82)
control rod drive system for, fault tree analysis of transient, 23:9195 (IDO-17274)
control rod reactivity worth measurements in, description of core configuration for, 22:1857 (GEMP-560)
control system for, testing of prototype hydraulic transient rod drive for, (E/T), 22:44890(R) (IDO-17270)
core support structure design analysis, 21:27801(R) (IDO-17228)
critical experiments at, operations and maintenance procedures for, 21:35715 (GEMP-522)
design and performance of, for reactor safety testing, 21:19793 (CONF-660511-, pp 8.1.1-30)
experimental capabilities of, liquid metal cooled fast breeder reactor safety programs, 25:57069(R) (ANL-7800)
fuel displacement and cladding growth of fuel pins in, transducers for measuring, 21:45345(R) (IDO-17234)
fuel element testing in, 21:19464(R) (IDO-17207)
fuel elements for, analysis of neutron radiation effects on mechanical properties of type 304 stainless steel-clad calcium oxide (CaO$_2$)—uranium oxide (UO$_2$)—zirconium oxide (ZrO$_2$), (E/T), 22:35596(R) (IDO-17260)
fuel examination using microprobe, after Kiwi destructive test, 21:18203(R) (IDO-17218)
fuel rod reaction force in, instrumentation for testing, 22:51276(R) (IDO-17269)
fuel rods for TREAT, description of tests in, 22:6095(R) (IDO-17245)
fuel rods for, parameters of SPERT-F type, 22:1857 (GEMP-560)
fuel rods for, preparation and properties of test, 21:17517(R) (CEND-235)
fuel testing for, out-of-pile, 22:11068
instrumentation maintenance and development, 23:16190 (ORNL-4335, pp 72-101)
materials accountability procedures, source and special, 22:6204 (IDO-17246)
mockup of, experimental determination of physics parameters in, 23:7424 (IDO-17276)
operations in, LMFBR safety testing, 25:6102
personnel for, training and qualification program for, 25:54195 (ANCR-1019)
physics parameters for, comparison of calculated and measured values for, 23:7424 (IDO-17276)
pressure pulses in, testing of acoustic filter system for, 21:1206(R) (IDO-17206)
simulation of, design of analog computer circuits for, 21:45345(R) (IDO-17234)
test procedures for approach-to-power at, 21:35715 (GEMP-522)

Power Components Reactor
see Savannah River Components Test Reactor

POWER CYCLES
analyses of Brayton, for use in coal-fueled electrogasdynamic power plants, 21:41073
analysis of plutonium-238 fueled Brayton, for space power plant, 23:2517 (N-68-25829)
analysis of Rankine, perfect thermodynamic vapor concept applied to, 21:17779
analysis of self-generating Brayton, computer program for performance, 22:19035 (UCRL-70827)
bearings for organic Rankine, 25:44289 (SAN-651-129)
boilers for Rankine, design of once-through liquid entrainment and vortex generator, 22:51137 (ORNL-TM-2080)
calculation of optimum high temperature gas cooled power reactor, 25:12809
combined rotating unit for mercury Rankine, bearing and shaft dynamics of, 21:34394 (NAA-SR-12411)
comparison of nuclear powered space vehicle, 25:51208
comparison of Rankine, Brayton, and Stirling, for isotopic energy conversion systems, 21:26110
component testing for Rankine, in orbital experiments, 21:41104
components for liquid metal Rankine, test facility for, 21:12548(R) (N-66-33975)
condensers for Rankine, steady state performance of, 21:28153 (NASA-TN-D-4020)
control characteristics for single loop boiling potassium MPRE Rankine cycle, computer simulation and mockup testing of, 23:28584 (ORNL-TM-1368)
control characteristics for single loop boiling potassium MPRE Rankine cycle, mockup testing of, 23:28585 (ORNL-TM-1370)
control system for Brayton, design of electric, 23:38179 (N-69-23368)
corrosion and mass transfer in mercury Rankine, for nuclear auxiliary power systems, 23:10157 (NAA-SR-Memo-12505)
description and problems of single- and multiloop Rankine, 21:45865 (ORNL-TM-1964)
description of alternate hybrid fossil—nuclear fueled MHD, 22:43952 (BNL-12569)
design and development of radioisotope-fueled organic Rankine, 25:18594(R) (ORNL-TM-3292)
design and operation of 3-KW Brayton, for space use, 21:41069
design and performance of liquid-metal circulation loop for MHD ac-to-dc conversion, 22:2889(P)
design and performance of mercury Rankine for SNAP-2, analysis of test data for, 21:1524 (NAA-SR-11945(Vol.2))
design and performance of mercury Rankine, for SNAP-2, 21:1523 (NAA-SR-11945(Vol.1))
design and performance testing of Rankine, using dual lithium—boiling potassium loops, 21:41105
design and vehicle integration of plutonium-238-fueled Brayton, for Manned Orbital Research Laboratory, 22:19054
design characteristics of integrated carbon dioxide cooled fast breeder power reactor direct and indirect, 23:28539
design evaluation of isotopic Brayton, for lunar roving vehicle power system, 21:41149 (NASA-CR-784)
design evaluation of isotopic mercury Rankine, for lunar roving vehicle power system, 21:41149 (NASA-CR-784)
design of 10 MW(e) lithium—boiling potassium Rankine, for nuclear-electric space propulsion, 22:30282 (UCRL-50382)
design of Brayton, using radioisotopic heat sources, 21:36261 (ORNL-TM-1691(Del.))
design of Carnot, for light weight compact space power units, optimization for, 21:41109
design of closed-cycle, for intermittent high-energy steam production, 24:27302(P)
design of liquid metal Rankine, for nuclear space power, 22:42345 (UCRL-70863)
design of magnetohydrodynamic, using gas—liquid emulsion, 22:47868(P)
design of potassium Rankine cycle, 23:18190
design of radioisotope powered Brayton, 22:33615
design of radioisotope powered Rankine, 22:33615
design of radioisotope powered Sterling—Phillips, 22:33615
design of radioisotope-fueled Brayton, incorporating compressor and turboalternator, 25:13168 (N-70-41276)
design of radioisotope-fueled mercury vapor turbine-type, for use as undersea power source, 25:18600(P)
design of radioisotope-fueled Rankine, using Dowtherm A and steam working fluids, 24:36508(R) (ORNL-TM-3011)
design of strontium-fueled organic Rankine, 24:46436(R) (ORNL-TM-3099)
design of thermodynamic, for operation above the critical pressure of its working fluid, 21:41102
development and performance of organic Rankine, for radioisotope-fueled electric power systems, 24:14168 (ORNL-TM-2366)
development for nuclear space power systems, review of, 22:16259
development for space vehicles, 23:8491
development for space, using refractory metals, 22:41057
development of bearings for turboalternator for mercury Rankine, 21:14355 (MTI-66TR66, pp 7.1.1-34)
development of boiling potassium Rankine, review on, 23:32012 (BNL-50163)
development of Brayton and thermoelectric, for space power reactor systems, 25:41582
development of Brayton, for radioisotope-powered generators, 22:14676 (SC-DC-67-2119)
development of cesium Rankine, for space applications, 22:21234 (ORNL-TM-2118)
development of closed organic Rankine, for RISE, 21:1519 (AGN-8163(Vol.4))
development of closed Rankine, for use in RISE, 22:16743
development of Dowtherm A Rankine, for RISE, 21:1518 (AGN-8163(Vol.1))
development of helium—xenon Brayton, for space power reactor systems, 25:41581
development of liquid metal heat transfer systems for space, 22:12975
development of mercury Rankine, for SNAP-8, 21:14358(R) (N-66-39971)
development of mercury Rankine, for use with SNAP-8, 21:5673 (NASA-SP-131, pp 147-68)
development of miniature Rankine, for powering plutonium-238-fueled circulatory assist devices, 24:14195
development of modified Stirling, for powering plutonium-238-fueled circulatory assist devices, 24:14194
development of nuclear energized, for space systems, 23:534
development of nuclear, for space propulsion, 23:13946
development of optimum economic, for high temperature closed loop helium turbine power reactors, 25:34400
development of optimum, for SNAP programs, 24:24895
development of organic Rankine, conversion system for, 21:8015(R) (SAN-651-8)
development of organic Rankine, conversion system for space use, 21:30634(R) (SAN-651-25)
development of organic Rankine, for 2 to 10 kW(e) radioisotope-fueled power systems for undersea applications, 25:4225
development of organic Rankine, for long duration space flight, 23:50027(R) (SAN-651-107)
development of organic Rankine, for operation in space, 21:36236(R) (SAN-651-33)
development of organic Rankine, for operation in space environments, 21:19451(R) (SAN-651-16)
development of organic Rankine, for operation in space, 21:36235(R) (SAN-650-5)
development of organic Rankine, for operation in space, 21:36234(R) (SAN-650-4)
development of organic Rankine, for space power systems, 23:33325(R) (SAN-651-96)
development of organic Rankine, for space power systems, 23:33324 (SAN-651-94)
development of organic Rankine, for space uses, 23:19896(R) (SAN-651-77)
development of organic Rankine, for space uses, 22:30768(R) (SAN-651-57)
development of organic Rankine, for space uses, 22:45221(R) (SAN-651-65)
development of plutonium-238 fueled Brayton, for manned orbital laboratory power, 21:36259 (N-67-20163)
development of plutonium-238-fueled Brayton, for space power system, 24:31620
development of plutonium-238-fueled Rankine, for implantable circulatory support system, 23:24391 (TE-3858-1)
development of plutonium-238-fueled Stirling, for implantable circulatory support system, 23:9654 (TID-24699)
development of potassium Rankine, for lithium cooled compact fast reactor, 25:41580
development of potassium Rankine, for SNAP-50/SPUR, 21:19820
development of potassium Rankine, for space applications, 22:21234 (ORNL-TM-2118)
development of potassium Rankine, for space applications, 21:4938 (NASA-SP-131, pp 169-99)
development of potassium vapor Rankine, for space applications, 21:4659 (NASA-SP-131, pp 201-38)
development of potassium—sodium boiler for mercury Rankine, for use with SNAP-2, 21:10503 (NAA-SR-12233)

development of radioisotope Brayton, 21:39129 (ORNL-4155)
development of radioisotope-fueled Brayton, 25:4216(R) (SC-PR-70-682)
development of radioisotope-fueled organic Rankine, for 1 to 10 kW(e) power systems, 25:26433
development of radioisotope-fueled steam, for 1 to 10 kW(e) power systems, 25:26433
development of radioisotope-fueled, for low-kW-range power plants, 21:41159
development of Rankine nuclear reactor, for manned Mars missions, 21:41101 (UCRL-50294)
development of Rankine rotary expansion steam, for powering plutonium-238-fueled circulatory assist devices, 24:14196
development of Rankine, electric component design and technology for, 21:36206(R) (SAN-679-2)
development of Rankine, electric component design and technology for, 21:36205(R) (SAN-679-1)
development of Rankine, for implantable circulatory support device, 23:29096 (WANL-3857-1)
development of Rankine, for land-based electric generating systems, 24:25199 (NASA-SP-5057, pp 35-89)
development of Rankine, turbine erosion in, 21:8498 (TID-23287)
development of simplified Stirling, for powering circulatory assist devices, 24:14193
development of Stirling, for powering implantable plutonium-238-fueled circulatory support system, 25:54910(P)
development of working fluid technology for organic Rankine, 23:7702
development progress on organic Rankine, 24:29135(R) (SAN-651-118)
development status of organic Rankine, 21:41108
efficiency of fossil—nuclear fueled MHD, design of coal reformer to improve, 23:17644 (BNL-13285)
efficiency of liquid and gas compression, for use in space power systems, 24:9592 (AGARDograph-123(Pt.1))
efficiency of liquid metal MHD, using steam—water condensing injector, 23:11686 (ANL-7443)
efficiency of Loeffler steam, for superheating reactors, 23:17242
efficiency of organic Rankine, for power system using strontium-90 titanate fuel, 25:15839 (ORNL-TM-2960)
efficiency of potassium Rankine, for steam power plants, 21:38603
efficiency of power reactor with Stirling, analysis of, 23:9192
efficiency of Rankine, in small isotopic power plants, 21:26113
efficiency of, using graphite helical rotor expanders, 21:32295 (UCRL-70258(Rev.1))
electric—thermal integration of cobalt-60-fueled organic Rankine, in manned spacecraft environmental control and life support systems, 25:42005
energy recovery in MHD—steam, by chemical conversion, 22:52580
evaluation and testing of Brayton, for gas-bearing turbocompressors, 22:2269(R) (NYO-3237-8)
evaluation for cobalt-60-fueled space power system, 24:14164 (AGN-8341)
evaluation of Brayton, for space power systems, 25:42008
evaluation of Brayton, for space power systems, analog computer studies for, 25:42009
evaluation of cesium and potassium Rankine, for space power plants, 23:13908 (ORNL-TM-2024)
evaluation of cobalt-60-fueled mercury Rankine, for terrestrial power systems, 24:20961
evaluation of organic Rankine, facility design for, 21:1512(R) (SAN-650-2)
evaluation of plutonium-238-fueled organic Rankine, or manned space station power system, (T), 25:42003
evaluation of plutonium-238-fueled Stirling, for spacecraft auxiliary power systems,, 25:42010
evaluation of Rankine, for electric power generation using isotopic and solar heat sources, 21:26114
feasibility of Brayton, Rankine, and Stirling, for isotopic generators, 21:26080
feasibility of Rankine, using isopropylbiphenyl as working fluid, 21:10538(R) (SAN-650-3)
heat receiver tubes for solar Brayton, experiment and method for filling with liquid lithium fluoride, 24:36459 (ORNL-TM-2732)
heat source development for 25 kW plutonium-238-fueled Brayton, for use in space, 22:51179 (MLM-1532)
heat source for Brayton, design of plutonium-238, 21:36262 (ORNL-TM-1829)
heat source for Brayton, thermal analysis of aerodynamically-shaped radioisotope, 25:13167 (N-70-41092)
heat transfer and fluid flow in Rankine, for SNAP-8, 21:6130 (NASA-CR-625)
heat transfer and fluid flow in Rankine, measurement of, 22:10486(R) (SAN-677-19)
heat transfer limitations in dynamic converters, 22:19820
heat transfer loop materials for, compatibility with alkali metals, 22:43533
heat-resisting alloys for Rankine, reactions with cesium, lithium, and potassium heat exchange fluids, 21:45865 (ORNL-TM-1964)
high-temperature gas-cooled power reactor helium turbine direct, problems with optimum, 23:15670(T) (ORNL-tr-3011)
jet condenser performance in Rankine, using Dowtherm A working fluid, 23:7701
liquid-metal MHD, analysis of multistage, 23:30383 (N-69-21376)
materials for Rankine space, development of, 25:2607 (ORNL-4570, pp 103-5)
operating characteristics of Brayton, for gas cooled power reactors with closed cycle gas turbines and secondary air cooling system, 25:60140
organic 1 to 15 kW(e) Rankine-cycle, design of optimum 0.5 to 0.1 psia turbine exhaust jet-condenser for, (E/T), 22:42339 (AGC-3484)
performance of Brayton and Rankine, for space vehicles, 21:1529
performance of Brayton closed-loop, effects of working gas on, 22:2270 (NYO-3237-9)
performance of Brayton, for radioisotope-fueled electric power systems, 24:14168 (ORNL-TM-2366)
performance of Brayton, for space applications, 21:4671 (NASA-SP-131, pp 95-145)
performance of carbon dioxide cooled power reactor reheat gas turbine, 23:28541
performance of carbon dioxide, calculations of complex and simple, 25:18587
performance of closed Brayton, in power supply systems for lunar, space, terrestrial, and undersea environments, 25:42007
performance of gas-bearing turbocompressor in closed Brayton-type, 22:45219 (NYO-3237-10)
performance of liquid metal Rankine, factors affecting steady state and transient, 22:47285(R) (SAN-677-29)
performance of liquid metal Rankine, steady state and transient, 21:12575(R) (SAN-677-3)
performance of liquid-metal MHD, using two-phase flow generators, 21:41856
performance of lithium—boiling potassium Rankine, dynamic analysis of, 21:12221 (N-66-19135)
performance of mercury Rankine, factors affecting, 22:35992(R) (SAN-677-25)
performance of potassium Rankine, for space power systems, 25:23727 (N-70-32747)
performance of radioisotope-fueled Brayton, for orbiting space stations, 21:14396
performance of radioisotope-powered Brayton, Rankine, and Stirling, 21:41157
performance of Rankine cycle liquid metal, factors affecting steady state and transient, 21:19843(R) (SAN-677-6)
performance of Rankine liquid metal, effect of boiler surface conditions on, (E), 22:10485(R) (SAN-677-15)
performance of Rankine, using monoisopropylbiphenyl, 21:41107
performance of Rankine, with magnetohydrodynamic generators, 22:52574
performance of Rankine, with MHD converters, 22:34327
performance of various, effects of heat rejection temperatures on, 23:17148 (BNWL-SA-2279)
principles of Stirling, 21:26112
pumps for organic Rankine, design and testing of condensate, 23:43435 (SAN-651-100)
radiator design limitations for dynamic converters, 22:19819
radiators for nuclear potassium Rankine, comparison of load-bearing and nonload-bearing, 22:35974 (N-68-10050)
review for magnetocaloric converters, 22:43953 (EUR-4039)
rotating boiler testing for Rankine, 21:41110
shutdown characteristics of Rankine, 25:46316 (N-71-20155)
specific mass of 300 kW(e) and 10 MW(e) Rankine system, reactor coolant outlet temperature for minimum, (T), 24:2044 (UCRL-50004-67-1, pp 47-82)
steady state and transient performance of liquid metal Rankine, mathematical model for analysis of, 21:34397(R) (SAN-677-11)
steam conditions for optimum fast breeder reactor, analysis of initial, 22:46949
superheater tubes for potassium Rankine, development of integrally-finned, 25:39624 (ORNL-TM-3383)
survey of liquid-metal, MHD, 24:45076
test facility mockup of Medium Power Reactor Experiment Rankine, design and operation of single-loop boiling-potassium, 23:11289 (ORNL-4025)
testing of organic Rankine, design of loop for, 25:10778(R) (ORNL-TM-3214)
thermodynamic analysis of oxygen-, in MHD plant with nitrogen-gas-cooled channel, 25:38188
thermodynamic analysis of supercritical mercury, with MHD generator, (T), 23:32206 (AE-355)
thermodynamic characteristics of carbon dioxide-cooled power reactor gas turbine, analysis of optimum economic, 23:4292 (TRG-Report-1734)
thermodynamic properties of Rankine, computer program for calculating, 22:50885 (CTC-2)
thermodynamics of liquid-metal MHD, 21:2079
turbine blade erosion in potassium Rankine, testing of, 25:44999 (SAN-595-4)
turbines for Brayton, development of optimum, 21:41103
turbines for large nuclear-powered Brayton, description of, 25:15821
turboalternator for Brayton, stability of gas-bearing, 21:41070
turboalternators for Rankine, development of centrifugal and dynamic seals for, 22:27958
use of Brayton and Rankine, in nuclear power plants, 22:8266
use of Brayton, to pump reactor coolant gas, 21:41089(R)
use of Brayton, with radioisotope thruster for space vehicles, 21:17781
use of fluorocarbons as working fluids in unconventional, 21:45301
use of modified Stirling, in circulatory support system, 22:40318 (AGN-8258)
use of Stirling, with nuclear heat sources for electric power generation, 21:26111
working fluid for organic Rankine, 21:1512(R) (SAN-650-2)
working fluid for, testing monoisopropylbiphenyl, 22:4342(R) (PRP-67-1184)
working fluids for Brayton, evaluation of dissociating gases as, 21:41071
working fluids for organic Rankine, evaluation of biphenyl and biphenyl—biphenyl ether eutectic as, 23:9613(R) (SAN-651-71)
working fluids for organic Rankine, evaluation of biphenyl and biphenyl—biphenyl ether eutectic as, (E), 22:10506(R) (SAN-651-43)
working fluids for organic Rankine, evaluation of biphenyl and biphenyl—biphenyl ether eutectic as, (E), 22:25617(R) (SAN-651-49)
working fluids for organic Rankine, thermal stability at 700°F of, (E), 23:50026 (SAN-651-101)
working fluids for, thermodynamic properties at high temperatures, 24:993 (UCRL-50004-67-1, pp 39-45)

POWER PLANTS

see also Nuclear Heating Plants
see also Nuclear Power Plants
see also Steam Power Plants
see also Submarine Power Plants

availability of Pacific Northwest hydro, effects on nuclear plant capacity factors of, 24:18537
availability of, equipment reliability factors affecting, 25:28549 (AECL-3670, pp 45-55)
availability of, survey of information collection procedures on, 25:28548 (AECL-3670, pp 23-37)
book: MHD Power Generation: Engineering Aspects, 24:47062
book: Power Stations of Europe, Volume 1, Federal Republic of Germany, 23:23842
book: Power Stations of Europe, Volume 2, Austria, 23:23845
combustion products for thermoelectric, with open-cycle MHD generator, production of high-temperature, 25:9261
conference on electricity from MHD, Warsaw, 7/68, 24:47054 (STI/PUB-191(Vol.1))
conference on electricity from MHD, Warsaw, 7/68, 24:47057 (STI/PUB-191(Vol.4))
conference on electricity from MHD, Warsaw, 7/68, 24:47058 (STI/PUB-191(Vol.5))
conference on electricity from MHD, Warsaw, 7/68, 24:47056 (STI/PUB-191(Vol.3))
conference on electricity from MHD, Warsaw, 7/68, 24:47059 (STI/PUB-191(Vol.6))
conference on electricity from MHD, Warsaw, 7/68, 24:47055 (STI/PUB-191(Vol.2))
conference on MHD, Salzburg, 7/66, 21:23039 (STI/PUB-128(Vol.2))
conference on safety and failure of components of, London, Sept. 3 to 5, 1969, 24:14133
construction in U.S., environmental aspects of, 25:18039
construction in U.S., proposal for joint planning of, 25:18038
construction of U.S., planning for future, 24:16098
control systems for, description of instrumentation for, 22:22756
coolant water from, computer program for computing temperature distribution in large water bodies from discharge of, 25:28856 (HEDL-TME-71-39)
cooling by waters of Upper Mississippi River Basin, computer predictions of thermal effects of, 23:15963 (BNWL-999)
cooling system protection from seawater corrosion, methods for cathodic, 25:2634
cost comparisons with nuclear, in Argentina, 22:3839 (NP-16986)
damage to Niigata, from earthquake, 23:40900(T) (AEC-tr-7075)
description of U-25 75-MW, using MHD generator for 25-MW, 24:28154
design and development of radioisotope-fueled low-kW-range, 21:41159
design and economics of thermonuclear, 22:9407
design and operation of first Soviet magnetohydrodynamic, 22:11293
design and operation of MHD, 21:29086
design and performance of emergency, for nuclear power plants, 22:33593
design and performance of experimental MHD, 22:15389
design and performance of MHD, using potassium carbonate-seeded combustion products, (E), 22:5181(T) (CEA-tr-R-1904)
design of 75-MW MHD, 23:8496
design of coal-fueled electrogasdynamic, 21:41073
design of emergency, for use on nuclear powered ships, 21:15749
design of high-energy thermoelectric, 21:29081
design of improved MHD, 23:8488(P)
design of MHD, 21:31287(P)
design of MHD, 22:41406(P)
design of MHD, 22:43957(P)
design of MHD, 23:20751(P)
design of MHD high-temperature closed-cycle, 21:20820(P)
design of MHD, for nuclear—electric propelled unmanned spacecraft, 24:15179(R) (N-70-12367)
design of MHD, for nuclear—electric unmanned spacecraft, 25:4992(R) (N-70-34006)
design of MHD, using liquid metal emulsion with gas turbines associated with high-temperature gas reactor, 25:58841
design of thermonuclear, for year 2000, 25:25145
design of, using MHD generator, 22:41404(P)
design of, using MHD generators, 22:7195(P)
design of, using MHD generators, 22:11297(P)
design of, using MHD rotating machine, 23:8493
development aspects of hydroelectric, 22:18486
development in Israel of, review of 1935 to 1967 and prediction of 1968 to 1981, 23:37415
development in Italy of hydroelectric, 25:50952
development in Sweden during 1960 to 1970, 25:25847 (NP-18691)
development in Switzerland of hydroelectric and nuclear, review of economic, 23:21419 (RISO-M-775)
development of coal-fired MHD, 21:29077

development of hydroelectric, discussions on, 22:18499
development of light-weight Rankine-cycle, 21:41107
development of liquid-metal MHD, highlights of conference on, 21:31285
development of lithium—boiling potassium Rankine cycle space, dynamic analysis of models for, 21:12221 (N-66-19135)
development of MHD, 21:46198
development of MHD, review of, 22:17440
development of open-cycle MHD, review of, 22:1037
development of radioisotope-fueled Brayton cycle, for orbiting space stations, 21:14396
discharge rates in Flatiron and Pole Hill, tracer measurements of pump and turbine, 25:15827 (TID-25395)
economic comparison of hydroelectric and nuclear, for Marble Canyon, Ariz, 21:13939 (AD-629447)
economic feasibility of binary, with liquid-metal MHD topping cycles, 24:28155
economic integration of nuclear and conventional, survey of potential, 21:19412
economic potentials of conventional, 22:25132 (LA-DC-9519)
economics comparison between conventional and nuclear, 21:38588
economics in Argentina of conventional, analysis of, 22:3838 (NP-16985)
economics in Sweden during 1970 to 1980 for hydroelectric, 25:25847 (NP-18691)
economics of chemical and nuclear, for undersea uses, 25:44180
economics of coal and gas fired, comparison of power reactors with, 23:49529
economics of combination pumped storage and nuclear stations, 23:37376 (EUR-4220)
economics of conventional and nuclear, comparison of, 22:14201
economics of fossil fuel and nuclear, effects of thermionic topping on, 23:31105 (CONF-690113-2)
economics of fossil fuel and nuclear, for industrial power and process steam production, 24:4112
economics of fossil fuel and nuclear, for industrial power and process steam production, 24:4115
economics of hydroelectric, comparison with nuclear, 21:44811 (AD-648807)
economics of liquid-metal MHD—steam binary, 25:35934
economics of long haul coal fired, comparison of 1000 MW(e) power reactors with, 23:49528
economics of U. S. hydroelectric pumped storage, in combination with nuclear power plants, 25:10109 (BNL-50238)
effects of operation of fossil-fueled, on environment, need for standards for, 25:39811
effects of pumped storage hydroelectric, on economics of nuclear power reactors in northeastern U. S, 23:31142
effluents from fossil-fueled and nuclearly stimulated natural gas-fueled, comparison of environmental effects of gaseous, 25:37519
effluents from natural gas-fueled, effects of nuclear stimulation of fuel gas on environmental contamination by, 25:13430 (UCRL-72830)
electric power generation in hydroelectric, in US to 2000, predictions for, 25:2393
electricity production from Italian hydroelectric, economic analysis of, 22:1814
electricity production in USSR, review of, 24:52748
environmental effects of U. S, 25:28530
feasibility of large-scale, with MHD topping, 24:28137 (AD-701446)
feasibility of noble-gas closed-loop MHD, fired with fossil fuels, economic and technical, (E/T), 25:9264
financing in Latin America, InterAmerican Development Bank activities in, 23:43081 (CONF-670338, pp 251-5)
flow rates in hydroelectric, use of radioisotopes to measure, 21:12699
heated effluents from fossil-fueled, engineering aspects of environmental effects of, 24:29435
heated effluents from, analysis of aquatic thermal pollution effects from disposal of, 24:44098 (TRC-7743-341-b)
heated effluents from, analysis of ecological and economic effects from disposal of, 24:44097 (TRC-7743-341-a)
heaters for MHD, design of pre-, 22:15393(P)
incorporation of nuclear units with Pacific Northwest hydro, planning for, 24:18536
liquid metal MHD—steam binary cycle, 21:27038
magnetohydrodynamic, status of production of electricity by, 22:7188 (FOA-4-4325-55)
MHD generator use in, review, 22:47871
open-cycle MHD, economics and thermal efficiency of large-scale, 22:5187
operation in U. S. Pacific Northwest, joint planning program for, 25:34209
operation in United Kingdom, trends in, 25:23119
operation of experimental MHD, 22:1033(T) (JPRS-42454)
operation of, programming methods for economic, 25:18068
operation of, use of digital computers for data processing associated with, 23:26618
oxidant temperature in large electric, using MHD generators, method for reducing, 25:16867
performance of Brayton- and Rankine-cycle MGD, for space applications, 23:30381 (N-69-20852)
performance of closed-cycle MHD, (T), 22:13288
performance of combined hydroelectric and nuclear, effects of hydro availability and stream flows on predicted, 23:31106 (CONF-690113-4)
performance of MHD, 22:29320
performance of open-cycle low-load MHD—steam, 24:47079
power cycles for marine and stationary, design of supercritical thermodynamic, 21:41102
prospects for closed-cycle MPD, 22:5186
requirements in Germany, projections of, 24:11098 (IRS-T-16(1969), pp 3-10)
rock stresses at Morrow Point underground, effects of earthquakes and explosions on, 22:25557 (SA-6)
shutdown in Germany of, procedures for reporting, 25:23229
startup in Germany, table of 1969 to 1974, 25:18053
status of MHD, 23:42018
structural materials for, creep deformation and fatigue failure of, 24:14718
structural plate bending in, finite element method for analysis of, 25:18575
thermal cycle for direct-flow supersonic compressorless MHD generator, 25:2935
thermal effects on surface waters, 23:43398 (CONF-680309, pp 153-67)
thermal effluents from, beneficial uses of, 25:48226
thermal effluents from, establishment of information sources for, 24:33223
thermodynamic analysis of, using MHD generator and thermocompressor, 25:2936
use for electricity production, summary and economics of future, 22:48649 (NEB-SS-21)
use of MHD, in marine applications, 21:2077 (TID-23318, pp 173-86)
waste heat from, use of surface waters for disposal of, 24:36385 (RLO-2218-1)

Power Reactor Development Co. Reactor
see Fermi Fast Breeder Reactor

Power Reactor Fuel Processing Plants
see Radiochemical Processing Plants

Power Reactors
see Reactors, Power

POWER SUPPLIES
(See also specific instruments and various components, e.g., Electron Tubes.)
see also Accelerator Tubes
see also Current Regulators
see also Electric Power
see also Electron Tubes
see also Voltage Regulators
amplifier for, design and performance of radiation-hardened switched-mode, 25:21495
circuit design for high and low voltage, for linear log radiation monitor, 21:12678
circuit for regulated 1725 V, for use with portable alpha survey meter, 22:21377 (ORNL-4219, pp 4-17)
circuitry and controls for EBR-II, design of, 21:21624 (ANL-7202)
circuits and specifications for the BARC model 228, for semiconductor detectors, 24:19194 (BARC-452)
circuits for rf power amplifiers for LAMPF linac, fault protection, 22:37227 (LA-DC-9446)
control and indication for beam transport, multiplexed remote, 23:37042(T) (NP-tr-1802)
control circuit for, of superconducting magnets, 25:14221
control element for current regulation of pulsed magnet, design of transistor, 25:20208
control system for amplifiers for rf, for LAMPF linac, 22:37226 (LA-DC-9445)
control system for Argonne ZGS magnet, modifications to, 23:28098
control system for Astron, using operational amplifiers, 23:25385 (UCRL-71567)
control system for data processing system, 25:35068
cryogenic transmission lines for, 24:44027 (BNL-50205, pp 50-77)
current signals from pulsed, meter for measuring rms values of, 25:18839(P)
delay line for use in plasma research, 21:30584 (CONF-661016, pp 153-5)
delay line modes of resonance in electron synchrotron magnet, excitation and elimination of, 22:11792
description of 200-MHz, for Alvarez section of LAMPF linac, 22:37229 (LA-DC-9452)
description of high voltage, for photomultiplier tubes, 21:32535
description of highly-stabilized dc, for accelerators, 21:17225
design and fabrication of, for Project Salt Vault, 25:32189 (ORNL-4555, pp 67-91)
design and operation of emergency, for reactors, 25:10762(P)
design and operation of high-frequency, for VEPP-2 storage ring, 24:5364(T) (SLAC-Trans-104)
design and operation of, for magnets of BSB iron-free electron synchrotron, 21:15447
design and performance for NAL synchrotron magnets, 23:28093
design and performance of 5800 kW (11,050 A), for spark chamber magnet, 21:36347 (SLAC-PUB-329)
design and performance of stabilized high-voltage, for photomultipliers, 22:47421
design and performance of stabilized, for lithium drifting of germanium and silicon detectors, 23:9696 (CEA-R-3631)
design and performance of transistorized, for scintillation counter, 23:7725 (AERI-22)
design characteristics of magnet, for CERN ISR storage ring, 23:5735
design equations for Dynamitron MV accelerator, 23:27960
design for 300-GeV proton synchrotron, 22:1521 (CERN-563(Vol.1))
design for accelerator and thermonuclear research, 25:33319
design for accelerator magnets, 24:6794(P)
design for accelerator magnets, using rectified ac power, 23:10890(P)
design for accelerators, 22:18071(P)
design for beam extraction system for Nimrod, 23:28101
design for bombardment-type electron sources, 22:11849(P)
design for deflection and focusing magnets, for accelerators, 21:17226
design for dual pulse generator and discriminator, engineering drawings for, 22:28256
design for high-field pulsing of Brookhaven AGS magnets, 23:28112
design for ion source for LECH Van de Graaff accelerator, 24:20266 (INR-1134)
design for magnet of FIAN electron synchrocyclotrons, 22:32411
design for magnets for slow beam extraction from Brookhaven AGS, 23:28113
design for magnets of NINA 4-GeV electron synchrotron, 21:33842
design for magnets used in circular accelerators, 21:17221
design for miniature implantable Geiger—Mueller detectors, 23:45509 (BNWL-1051(Pt.3), pp 22-5)
design for NINA 4-GeV electron synchrotron, 22:12653
design for photomultipliers, 23:29275
design for producing intense magnetic fields, 22:21264
design for proton synchrotrons, use of superconducting storage coils in, 22:11797
design for pulsed toroidal fusion devices, 25:25159
design for radial-sector magnets, 21:1876
design for spark-gap tool setting system for numerically controlled machine tools, 21:45001 (Y-1589)
design for standard nuclear instrument modules, 22:19193 (TID-20893(Rev.2))
design for Stanford Linear Accelerator magnets, 23:28102
design for superconducting magnets, 24:44375(P)
design for supplying multi-gap spark chambers, 23:11853
design for trimming coil system of Juelich isochronous cyclotron, 23:13172
design modification for 10-kV in accelerator, 21:4149 (UCRL-16806, pp 58-9)
design of +-12V or +-24V, for use in NIM standard module, engineering drawings for, 21:14375
design of 1-MJ inductive energy storage system using ignitron switching, 24:37490 (MATT-741)
design of 1-MV inductive energy storage system using ignitron switching, engineering drawings for, 25:36209
design of 10-kW space, using nuclear reactor and out-of-pile thermionic converter, 22:24090 (LA-3813)
design of 200 kV, 200 mA dc, for Cockcroft—Walton accelerators, 21:40328
design of 25-kV, 2-A, for Alice ion source, (E), 23:23187 (UCRL-71570)
design of 25-kV, 2-A, for Alice ion source, engineering drawings for, 23:38361
design of 300 kW dc variable current and voltage, engineering drawings for, 22:19229
design of 4-MW system for magnet coils, 22:21244
design of 5- to 25-kV, 22:38161
design of capacitor banks for fusion research, 25:30582 (EUR-4593, pp 393-400)
design of current-controlled thyristor, for magnets of Harwell synchrotron, 22:44560
design of digital high-voltage, for automatic testing and regulation of gain in photomultiplers, 23:41109 (EUR-4289, pp 265-7)
design of dual regulated 24-V dc, for radiation alarm system, engineering drawings for, 21:36470
design of high stability step programmed, for beam extraction magnets of Nimrod, 22:11795
design of high voltage dc, for accelerators, 23:21198(P)
design of high voltage, for continuous air monitor, 21:8622
design of high-current, for GE Research and Development Center pinch device, 21:25101 (66-C-483)
design of high-current, for Los Alamos Scyllac, 21:25103 (LA-DC-8086)
design of high-voltage dc, for beam injectors of high-energy accelerators, 23:27958
design of high-voltage, for radiation detectors, 21:45427(P)
design of high-voltage, for semiconductor detectors, 22:36056
design of high-voltage, low-ripple, for use in electron beam heating, engineering drawings for, 21:8657
design of highly-regulated, containing regulated current and voltage supplies, 22:23358 (IA-1128, pp 185-212)
design of hybrid, for photomultipliers for space-borne particle spectrometers, 24:39252
design of inductive energy storage system using ignitron switching, 22:2474
design of low-current modular, 21:34516 (ORNL-4091, pp 15-21)
design of low-ripple, pulsed, phase-backed rectifier, for backleg winding bump coils of Brookhaven AGS, 21:33801 (BNL-11144)
design of magnet, for 200-MeV electron—positron storage ring, 21:38053
design of mercury rectifier, for magnets, 22:21248
design of NIM system type III, 21:34516 (ORNL-4091, pp 15-21)
design of passive, for electric arcs of duoplasmatron ion sources, 21:25379
design of power amplifier for synchrotrons, 21:13747 (CERN-66-35)
design of precision stabilized dc, for accelerator magnets, 22:11794
design of pulse, for piezoresistive gages, 25:10381 (SCL-DR-70-130)
design of pulsed, for high frequency light sources, 22:4311 (UCRL-17621)
design of regulated high-voltage, for portable Geiger—Mueller detectors, 21:43250
design of silicon rectifier, for magnets, 22:21249
design of small high-voltage dc, 21:38009
design of small high-voltage, for portable radiation detectors, 23:19971
design of stabilized high-voltage, for proportional counter, 22:47326(P)
design of stable transistorized, for photomultipliers, 23:41152

  design of static, for larged pulsed magnets of 300-GeV accelerator, 22:11789
  design of transistorized dc-to-dc converter, for electrometers, 24:25327 (ORNL-TM-2969)
  design of transistorized, for radiation detectors, 23:16129(P)
  design of, for ORNL NIM standard bin, engineering drawings for, 21:10715
  design using thermoelectric generators, 22:7191(P)
  development for accelerators, 23:28207
  development for constant high magnetic fields, 22:21253
  development for space, 21:29079
  development for superconducting magnets for synchrotron, 25:3513
  development for superconducting magnets for synchrotron beam alignment, 23:52031 (CEA-CONF-1285)
  development of 805-MHz, for LAMPF linac, 22:37225 (LA-DC-9444)
  development of capacitive discharge, for producing 2.5-MG magnetic fields, 22:21262
  development of constant-power, 21:34522 (ORNL-4091, pp 102-35)
  development of high-voltage dc, with complete shielding, 21:38007
  development of high-voltage, for zone refiner, 23:16184 (ORNL-4335, pp 12-18)
  development of inductive energy storage systems for intense magnetic field production, 25:30561 (EUR-4593, pp 197-203)
  development of pulsed, for electrofishing, 23:16184 (ORNL-4335, pp 12-18)
  development of radioisotope, review of, 21:5770
  development of radioisotope-fueled, for implantable circulatory support devices, 22:47294(R) (TID-24349)
  development of static, for high-energy accelerator magnets, 23:28094
  development of synchrotron, based on superconducting energy storage, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
  development of utility-line pulsed, for Argonne ZGS magnets, 23:28095
  efficiency of flux pump, for superconducting magnets, 22:51138 (ORNL-TM-2351)
  frequency requirements for SNAP-8 battery—inverter unit during pump startup, 24:13618 (N-70-11628)
  monitoring system for high-voltage, for radiation detectors, 23:38244 (EGG-1183-1408)
  network stabilization in accelerator magnet, design of saturated inductor for, 22:11790
  noise reduction in, method for systematic, 21:1683
  operation and maintenance for fission chamber and preamplifier, 22:30821 (ORNL-TM-1638(Pt.17))
  performance of plutonium-238 as implantable, in biomedical applications, 24:14506
  radioinduced chromosome aberrations in lymphocytes of dogs following implantation of simulated plutonium-238, for artificial heart, γ and neutron, 24:46663
  reactors for nonregulated dc, use of saturable, 21:19990 (PPAD-616-D)
  reliability analysis of auxiliary, for boiling reactor power plants, 21:15729
  reliability of reactor auxiliary, evaluation of, 21:2900
  repair of utility electric and gas, after nuclear explosion damage, 22:37623 (AD-665307)
  safety analysis of radioactive, procedure for, 21:12586 (SC-DC-66-2329)
  stabilization of magnet, for NINA electron synchrotron, 22:11791
  stabilization of, high-current device for, 21:16224 (UJV-1621)
  voltage distortion in, for accelerator experimental facilities, 23:28122
  voltage fluctuations in, for beam switching for Argonne ZGS, 23:28096
PPO
    see Oxazole, 2,5-Diphenyl-
PR-6 Device (USSR)
    see Magnetic Mirror Machines
PRAIRIE ISLAND POWER REACTOR, UNIT 1 (560 Mw(e))
  auxiliary and emergency systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  auxiliary systems for, final safety analysis of, 25:15302 (DOCKET-50282-29)
  auxiliary systems for, remote handling facilities for filter maintenance in, 24:45853
  blowdown analysis for, 22:18391 (DOCKET-50282-2)
  building for, load tests of beams in fire-damaged, 24:13472 (DOCKET-50282-18)
  buildings and structures for, design requirements of, 25:15304 (DOCKET-50282-31)
  buildings for, earthquake stress analysis of, 25:34287 (DOCKET-50282-34)
  buildings of, concrete compositions for, 24:1944 (DOCKET-50282-15)
  buildings of, design restrictions for, 24:24766 (DOCKET-50282-19)
  buildings of, stress analysis of fire-damaged concrete and steel, 24:1944 (DOCKET-50282-15)
  components for, design requirements of, 25:15304 (DOCKET-50282-31)
  components for, revised information on classification of, 24:52833 (DOCKET-50282-25)
  construction of, request for not suspending permit for, 25:59963 (DOCKET-50282-41)
  containment spray systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  containment structure for, design of, 22:24947 (DOCKET-50282-7)
  containment structures for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  containment system for, analyses of capability of, 22:24948 (DOCKET-50282-8)
  containment system for, integrated evaluation of dual, 25:46201 (DOCKET-50282-36)
  containment system for, safety analysis of design of, 22:18390 (DOCKET-50282-1)
  containment systems for, design of, 22:24946 (DOCKET-50282-6)
  containment vessel for, design analyses for, 22:20802 (DOCKET-50282-5)
  containment vessel for, design of electrical penetrations for, 24:31032
  control system for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  control systems and instrumentation for, design analysis of, 22:24947 (DOCKET-50282-7)
  coolant loss accidents in, analysis of, 22:20802 (DOCKET-50282-5)
  cooling system for, final safety analysis of, 25:15300 (DOCKET-50282-27)
  cooling system for, radioisotope content in, 22:18392 (DOCKET-50282-3)
  cooling system for, safety analysis of design of, 22:18390 (DOCKET-50282-1)
  design of, safety analysis of, 22:18390 (DOCKET-50282-1)
  design parameters for, 22:20802 (DOCKET-50282-5)
  design parameters of, revised and additional data on, 25:56953 (DOCKET-50282-40)
  design parameters of, revised and additional data on, 24:47760 (DOCKET-50282-22)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:34286 (DOCKET-50282-33)
  effluents from, effects on environment of radioactive and thermal, 25:53998 (DOCKET-50282-39)
  electrical systems for, preliminary safety analysis of, 25:15302 (DOCKET-50282-29)
  electrical systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  emergency core cooling facilities for, description of vent and water supply systems for, 23:49501 (DOCKET-50282-9)
  engineered safeguards for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  engineered safety systems for, description of, 22:20802 (DOCKET-50282-5)
  fire damage of, description of and repair methods for concrete formwork, 23:49502 (DOCKET-50282-11)
  fuel handling and storage facilities for, safety analysis of, 24:28964 (DOCKET-50282-20)
  instrumentation and control systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  instrumentation for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  leak detection system for emergency core cooling facilities, 23:49501 (DOCKET-50282-9)
  operation of, estimated costs of initial five-year, 25:36939 (DOCKET-50282-35)
  operation of, license application for, 25:15299 (DOCKET-50282-26)
  operation parameters for, 22:20802 (DOCKET-50282-5)
  operations aspects of, final safety analysis of, 25:15302 (DOCKET-50282-29)
  operations aspects of, revised and additional data on, 24:47760 (DOCKET-50282-22)
  operations aspects of, revised and additional data on, 25:56953 (DOCKET-50282-40)
  operations of, safety analysis of initial, 25:15303 (DOCKET-50282-30)
  operations procedures for, safety aspects of, 22:18391 (DOCKET-50282-2)
  owners of, financial statements of, 25:15299 (DOCKET-50282-26)
  physics measurements for, final safety analysis of, 25:15300 (DOCKET-50282-27)
  piping systems of, design restrictions for, 24:24766 (DOCKET-50282-19)
  power increases in, startup test program for, 22:24948 (DOCKET-50282-8)
  pressure vessel for, deficiencies in quality assurance during fabrication of, 24:43667 (DOCKET-50282-21)
  pressure vessel for, safety analysis of fabrication procedures for, 24:47761 (DOCKET-50282-23)
  quality assurance program for, 25:15304 (DOCKET-50282-31)
  quality assurance program for, 25:15304 (DOCKET-50282-31)
  quality assurance program for, safety analysis of, 24:1943 (DOCKET-50282-14)
  radiation doses at, models for calculating, 22:18392 (DOCKET-50282-3)
  radiation protection and radioactive waste handling at, safety analysis of, 22:18391 (DOCKET-50282-2)
  radiation protection system for, final safety analysis of, 25:15302 (DOCKET-50282-29)
  radioactive waste disposal system for, final safety analysis of, 25:15302 (DOCKET-50282-29)
  safety analysis of, 25:15303 (DOCKET-50282-30)
  safety injection system for, safety analysis of, 22:18391 (DOCKET-50282-2)
  shield building for, effects of variation of vent system parameters for, 22:24948 (DOCKET-50282-8)
  shutdown of, estimated maintenance costs for permanent, 25:36939 (DOCKET-50282-35)
  site for, environmental radiation survey during June to December 1970, 25:53998 (DOCKET-50282-39)
  site for, final safety analysis of, 25:15300 (DOCKET-50282-27)
  site for, geology and seismology of, 22:18392 (DOCKET-50282-3)
  site for, preliminary safety analysis of, 25:15304 (DOCKET-50282-31)
  site for, safety analysis of maximum flood stage for, 24:50031 (DOCKET-50282-24)
  site of, safety analysis of flood hazards for, 24:28964 (DOCKET-50282-20)
  siting of, safety analysis of, 22:18390 (DOCKET-50282-1)
  steam and power conversion systems for, final safety analysis of, 25:15302 (DOCKET-50282-29)
  steam and power conversion systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  structures at, damping factors for, 22:20801 (DOCKET-50282-4)
  structures for, revised information on classification of, 24:52833 (DOCKET-50282-25)
  structures for, seismic design of, 22:24946 (DOCKET-50282-6)
  technical specifications for, proposed complete, 25:23171 (DOCKET-50282-32)
  ventilation system for, safety analysis of auxiliary building, 24:28964 (DOCKET-50282-20)
PRAIRIE ISLAND POWER REACTOR, UNIT 2 (560 Mw(e))
  auxiliary and emergency systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  auxiliary systems for, final safety analysis of, 25:15302 (DOCKET-50282-29)
  auxiliary systems for, remote handling facilities for filter maintenance in, 24:45853
  blowdown analysis for, 22:18391 (DOCKET-50282-2)
  building for, load tests of beams in fire-damaged, 24:13472 (DOCKET-50282-18)
  buildings and structures for, design requirements of, 25:15304 (DOCKET-50282-31)
  buildings for, earthquake stress analysis of, 25:34287 (DOCKET-50282-34)
  buildings of, concrete compositions for, 24:1944 (DOCKET-50282-15)
  buildings of, design restrictions for, 24:24766 (DOCKET-50282-19)
  buildings of, stress analysis of fire-damaged concrete and steel, 24:1944 (DOCKET-50282-15)
  components for, design requirements of, 25:15304 (DOCKET-50282-31)
  components for, revised information on classification of, 24:52833 (DOCKET-50282-25)
  construction of, request for not suspending permit for, 25:59963 (DOCKET-50282-41)
  containment spray systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  containment structure for, design of, 22:24947 (DOCKET-50282-7)
  containment structures for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  containment system for, analyses of capability of, 22:24948 (DOCKET-50282-8)
  containment system for, integrated evaluation of dual, 25:46201 (DOCKET-50282-36)
  containment system for, safety analysis of design of, 22:18390 (DOCKET-50282-1)
  containment systems for, design of, 22:24946 (DOCKET-50282-6)
  containment vessel for, design analyses for, 22:20802 (DOCKET-50282-5)
  containment vessel for, design of electrical penetrations for, 24:31032
  control system for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  control systems and instrumentation for, design analysis of, 22:24947 (DOCKET-50282-7)
  coolant loss accidents in, analysis of, 22:20802 (DOCKET-50282-5)
  cooling system for, final safety analysis of, 25:15300 (DOCKET-50282-27)
  cooling system for, radioisotope content in, 22:18392 (DOCKET-50282-3)
  cooling system for, safety analysis of design of, 22:18390 (DOCKET-50282-1)
  design of, safety analysis of, 22:18390 (DOCKET-50282-1)
  design parameters for, 22:20802 (DOCKET-50282-5)
  design parameters of, revised and additional data on, 24:47760 (DOCKET-50282-22)
  design parameters of, revised and additional data on, 25:56953 (DOCKET-50282-40)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:34286 (DOCKET-50282-33)
  effluents from, effects on environment of radioactive and thermal, 25:53998 (DOCKET-50282-39)
  electrical systems for, preliminary safety analysis of, 25:15302 (DOCKET-50282-29)
  electrical systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  emergency core cooling facilities for, description of vent and water supply systems for, 23:49501 (DOCKET-50282-9)
  engineered safeguards for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  engineered safety systems for, description of, 22:20802 (DOCKET-50282-5)
  fire damage of, description of and repair methods for concrete formwork, 23:49502 (DOCKET-50282-11)
  fuel handling and storage facilities for, safety analysis of, 24:28964 (DOCKET-50282-20)
  instrumentation and control systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
  instrumentation for, final safety analysis of, 25:15301 (DOCKET-50282-28)
  leak detection system for emergency core cooling facilities, 23:49501 (DOCKET-50282-9)
  operation of, estimated costs of initial five-year, 25:36939 (DOCKET-50282-35)
  operation of, license application for, 25:15299 (DOCKET-50282-26)
  operation parameters for, 22:20802 (DOCKET-50282-5)
  operations aspects of, final safety analysis of, 25:15302 (DOCKET-50282-29)
  operations aspects of, revised and additional data on, 24:47760 (DOCKET-50282-22)
  operations aspects of, revised and additional data on, 25:56953 (DOCKET-50282-40)
  operations of, safety analysis of initial, 25:15303 (DOCKET-50282-30)
  operations procedures for, safety aspects of, 22:18391 (DOCKET-50282-2)

owners of, financial statements of, 25:15299 (DOCKET-50282-26)
physics measurements for, final safety analysis of, 25:15300 (DOCKET-50282-27)
piping systems of, design restrictions for, 24:24766 (DOCKET-50282-19)
power increases in, startup test program for, 22:24948 (DOCKET-50282-8)
pressure vessel for, deficiencies in quality assurance during fabrication of, 24:43667 (DOCKET-50282-21)
pressure vessel for, safety analysis of fabrication procedures for, 24:47761 (DOCKET-50282-23)
quality assurance program for, 25:15304 (DOCKET-50282-31)
quality assurance program for, 25:15304 (DOCKET-50282-31)
quality assurance program for, safety analysis of, 24:1943 (DOCKET-50282-14)
radiation doses at, models for calculating, 22:18392 (DOCKET-50282-3)
radiation protection and radioactive waste handling at, safety analysis of, 22:18391 (DOCKET-50282-2)
radiation protection system for, final safety analysis of, 25:15302 (DOCKET-50282-29)
radioactive waste disposal system for, final safety analysis of, 25:15302 (DOCKET-50282-29)
safety analysis of, 25:15303 (DOCKET-50282-30)
safety injection system for, safety analysis of, 22:18391 (DOCKET-50282-2)
shield building for, effects of variation of vent system parameters for, 22:24948 (DOCKET-50282-8)
shutdown of, estimated maintenance costs for permanent, 25:36939 (DOCKET-50282-35)
site for, environmental radiation survey during June to December 1970, 25:53998 (DOCKET-50282-39)
site for, final safety analysis of, 25:15300 (DOCKET-50282-27)
site for, geology and seismology of, 22:18392 (DOCKET-50282-3)
site for, preliminary safety analysis of, 25:15304 (DOCKET-50282-31)
site for, safety analysis of maximum flood stage for, 24:50031 (DOCKET-50282-24)
site of, safety analysis of flood hazards for, 24:28964 (DOCKET-50282-20)
siting of, safety analysis of, 22:18390 (DOCKET-50282-1)
steam and power conversion systems for, final safety analysis of, 25:15302 (DOCKET-50282-29)
steam and power conversion systems for, safety analysis of, 22:18391 (DOCKET-50282-2)
structures at, damping factors for, 22:20801 (DOCKET-50282-4)
structures for, revised information on classification of, 24:52833 (DOCKET-50282-25)
structures for, seismic design of, 22:24946 (DOCKET-50282-6)
technical specifications for, proposed complete, 25:23171 (DOCKET-50282-32)
ventilation system for, safety analysis of auxiliary building, 24:28964 (DOCKET-50282-20)

PRASEODYMIUM
see also Rare Earths
abundance in Sun, (E/T), 23:39226
abundance of, solar, (T), 22:23982
abundance on surfaces of peculiar A stars, (E/T), 25:58462
analysis for hydrogen, spectral-isotopic method for, 22:19534
analysis of, 22:27694
analysis of organic complexes and salts of, for carbon, halogens, hydrogen, and praseodymium, 24:38738
analysis of, for neodymium, spectrophotometric, 21:31
atomic volume of, in solid solutions with thorium, 21:3521
atomic weight of, based on carbon-12 = 12, 22:42698
cathodoluminescent properties in yttrium oxide, 22:22996 (CONF-670502-, pp 271-82)
chemical bond formation by, participation of f-electrons in, 24:13835
chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
complexes with (1,2-cyclohexylenedinitrilo)tetraacetic acid, ion exchange affinity of, 22:23097 (INR-P-860/VIII/C)
complexes with (1,2-cyclohexylenedinitrilo)tetraacetic acid, dissociation rate constants for, 23:13626
complexes with 1,1-cyclobutanedicarboxylic acid, diethylmalonic acid, and dipropylmalonic acid, stability constants for, 21:40772 (IS-1600, Paper 3)
complexes with 1,3-diphenyl-1,3-propanedione and 1-phenyl-1,3-butanedione, PMR spectral studies on, 23:108(T) (UCRL-Trans-10266)
complexes with 2,2-bis(hydroxymethyl)propionic acid and 2-methyllactic acid, stability constants for, 24:36199 (IS-T-381)
complexes with 2,3-pyridinediol, stability constant for, 25:118
complexes with 2,4-pentanedione, preparation of, 23:11607(T) (UCRL-Trans-10317)
complexes with 2,4-pentanedione, preparation of, 22:25459 (KFK-672)
complexes with 2,4-pentanedione, structure of, 22:14566 (ORO-2124-12)
complexes with 2-methyllactic acid, formation constants for, 25:67 (CONF-700403-(Vol.1), pp 266-76)
complexes with 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, magnetic susceptibility of, 21:21963 (BNL-994, pp 3-19)
complexes with 4,4'-(ethylenedinitrilo)di-2-pentanone, properties of, 23:11491
complexes with 4-hydroxy-3-nitrocoumarin, 1-nitroso-2-naphthol, and 2-nitroso-1-naphthol, stability constants for, 23:6122
complexes with acetates, spectrophotometric studies of, 22:42605
complexes with aluminon, structure and stability of, 22:14501
complexes with Arsenazo III in presence of Complexone III, spectrophotometric studies on, 25:15631
complexes with β-diketones and α,α'-(ethylenedinitrilo) di-o-cresol, preparation of, 23:2299
complexes with β-diketones, preparation, spectra, thermal stability, and volatility of, 23:35068
complexes with β-diketones, radiolysis of, Szilard-Chalmers reaction in gamma and thermal-neutron, 21:24046
complexes with carminic acid, spectrophotometric studies on, 25:12937
complexes with cesium and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione, preparation and properties of, 24:41261
complexes with cesium and 1,1,1,5,5,5-hexafluoro-2,4-pentanedione, preparation, properties and structure of, 23:1880 (ORNL-4306, pp 22-45)
complexes with Chromotrope 2R, properties of, 23:9386
complexes with cyclohexyl isocyanide and cyclopentadiene, structure of, 24:48065 (ORNL-4581, pp 28-61)
complexes with cyclopentadiene, enthalpy of sublimation and vapor pressure of, 25:31938 (KFK-1283)
complexes with cyclopentadiene, preparation and crystal structure of, 24:1823 (ORNL-4437, pp 20-39)
complexes with cyclopentadiene, preparation of cyclopentadienylpromethium from promethium-147 and, 23:31329
complexes with cyclopentadiene, spectra of, NMR, 23:26256
complexes with diethyldithiocarbamic acid, chemical and crystallographic properties and spectra of, 24:22633
complexes with DPTA, spectrophotometric studies on, 25:57549
complexes with EDTA, separation by ion exchange, effects of resin crosslinking on, 25:10665 (INR-P-1209)
complexes with γ-butyrolactam and N-methyl-γ-butyrolactam, properties of, 23:11494
complexes with HEDTA, dissociation constants for, 25:57537
complexes with heterocyclic carboxylic acids, formation constants and solubility products of, 23:35067
complexes with mandelic acid, formation constants for, 21:40772 (IS-1600, Paper 3)
complexes with N,N-diethyldithiocarbamic acid, preparation of, 23:6106
complexes with nitrilotriacetic acid, crystal and molecular structure of, 25:15562 (IS-2300, pp 21-89)
complexes with o-[[1,8-dihydroxy-7-[(1-hydroxy-3,8-disulfo-2-naphthyl)azo]-3,6-disulfo-2-naphthyl]azo] benzenearsonic acid, spectrophotometric studies on, 22:1993
complexes with salicylohydroxamic acid in acetone—water mixture, stability constant for, 24:18975
complexes with sodium salts of EDTA, PMR spectra, stability constants, and structure of, 23:28861
complexes with sodium salts of EDTA, PMR spectral studies on effects of deuterium on, 23:28861
complexes with sulfates, stability constants for, 21:19639
complexes with sulfates, thermodynamic properties of, 21:19638
complexes with Xylenol Orange, spectral studies on composition and stability of, 23:163
complexes, separation factors and stability constants for, 24:16537
compounds of, review for nuclear adiabatic demagnetization cooling, 25:47623
compounds with 2,2,6,6-tetramethyl-3,5-heptanedione, spectra of, vapor-phase, 22:30530
compounds with mandelic acid, preparation by reactions of praseodymium alkoxides with mandelic acid, potentiometric studies on, 25:4055
compounds with singlet crystal field ground state, magnetic susceptibility of, 22:24381 (CONF-670502-, pp 48-57)
crystal structure of, 23:43319
crystal structure of, comparison of layer stacking sequence with praseodymium trialuminide, 22:2650
crystalline electric field of, lattice and antishielding factors in, (T), 24:10634
Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
demagnetization cooling of, 24:51564(R) (COO-1569-59)
deposition in aqueous or organic media, electrolytic, 25:37438 (CEA-R-4101)
determination as impurity in gadolinium and yttrium oxides by x-ray luminescence methods, 25:28961
determination as orthovanadate, conductometric method for, 22:47099
determination as oxide by fast neutron activation, 22:6282
determination as trace impurity in glass fragments by mass spectrometry, 22:33205 (AWRE-O-3/68)
determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
determination by atomic absorption spectroscopy using acetylene—nitrous oxide flame, 22:37662
determination by bremsstrahlung activation, 24:49
determination by extraction-photometric method using Arsenazo III and diphenylguanidine, 23:34988
determination by flame emission in acetylene—nitrous oxide flame, detection limits for, 23:43256
determination by neutron activation methods, 24:2158
determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
determination by neutron activation techniques, 22:47079
determination by neutron activation, selection of optimum activation and cooling times for, 25:39441
determination by paper chromatography using phenylbenzohydroxamic acid, 21:23849
determination by photon activation, 24:31269
determination by photon activation methods, 22:27591
determination by photon activation, sensitivity for, 23:15826
determination by precipitation using sodium tungstate, potentiometric, 21:21880
determination by rotating electrode, effects of coexistent components on spectrographic, 23:13636
determination by separation from cerium by precipitation and counting, 22:18908
determination by spectrophotometry, 25:26165
determination by spectropolarimetric titration using propylenedinitrilotetraacetic acid, 24:16429
determination following solvent extraction of complexes of, with calcium and 8-quinolinol using chloroform, spectrophotometric, 23:40548
determination in abukumalite, 25:31815
determination in acidic and saline solutions, design of burner for use in flame spectrophotometric, 24:41206
determination in alkali medium in presence of cetylpyridinium bromide by spectrophotometry using Xylenol Orange, 22:40000
determination in aqueous acetone solutions of dibenzoylmethane complexes, absorption spectrophotometric, 25:34527
determination in aqueous solutions using chelatochrome indicators, complexometric, 23:33152
determination in basalt, dunite, and granite rocks by neutron activation and radiochemical separation, 24:41236
determination in carbonates, oxides, phosphates, silicates, or sulfates by electron probe method, correction factors for, 24:48035
determination in cerium compounds, tracer ion-exchange method for, 21:32099
determination in cerium dioxide by chemical-spectral methods, 21:35853
determination in cerium oxide, spectrographic, 22:4054
determination in cerium oxide, spectrophotometric, 22:4054
determination in cobalt alloys, spectrographic, 25:57313
determination in erbium, lanthanum, thulium, and yttrium oxides by spark source mass spectroscopy, 21:40772 (IS-1600, Paper 3)
determination in fission product mixtures by ion exchange and β counting, 25:54449
determination in gadolinium oxide or yttrium oxide by x-ray-excited optical fluorescence, 23:6059
determination in high-purity lanthanum oxide, luminescence method for, 25:37275
determination in holmium oxide—zirconium oxide by x-ray fluorescence, 24:29207
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in intermediate products of rare earth production by x-ray spectroscopy, 25:54417
determination in irradiated plutonium, 21:35895
determination in lanthanum by emission spectrography, 25:28965
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in liquids, ores, and oxide mixtures by x-ray fluorescence using double dilution method, 24:4207
determination in lunar rocks and soil from Apollo 11 by neutron activation, 24:20736
determination in meteorites by neutron activation and high-voltage electrophoresis, 25:41776
determination in minerals and ores, quantitative spectrographic, 23:4532
determination in misch metal as chlorates, nitrates, or perchlorates, photometric, 25:2077
determination in mixtures of rare earths by high-voltage electrophoresis and spectrophotometry, 24:29201
determination in monazite by x-ray fluorescence, 24:11440
determination in neodymium by neutron activation and gamma spectroscopy, 23:15824
determination in nickel alloys and steel, spectrographic, 21:42906
determination in organic complexes and salts of palladium or praseodymium, 24:38738
determination in oxalate and sulfate matrices by x-ray fluorescence spectrometry, 24:29208
determination in phosphate rocks by atomic-absorption flame photometry, 22:2001
determination in plutonium oxide—uranium oxide fuels by solvent extraction and emission spectrography, 25:12922 (WHAN-SA-44)
determination in powdered thermal water residues, mass spectrographic, 25:51369
determination in praseodymium nitride—uranium nitride by x-ray fluorescence spectrometry, 24:26931
determination in presence of cerium, lanthaum, and neodymium, polarographic, 24:26982
determination in presence of neodymium, spectrophotometric, 21:40780
determination in PZT ceramics by neutron activation methods, 21:35904
determination in rare earth concentrates by neutron activation and γ spectrometry, 24:31259
determination in rare earth minerals by x-ray fluorescence spectrometry, 23:35
determination in rare earth mixture as complex with (1,2-cyclohexylenedinitrilo)tetraacetic acid, differential kinetic method of, 23:13626
determination in rare earth mixtures by aerosol-spark method, 22:6281
determination in rare earth oxides, spectrographic, 25:34511
determination in rocks, chemical-spectrographic method for, 21:34215(R) (UCRL-50006-67-1)
determination in rocks, spectrographic, 23:28673(R) (UCRL-50006-69)

determination in silicate rocks by neutron activation and γ spectrometry, 23:35041
determination in silicate rocks by neutron activation and γ spectrometry, 24:31264
determination in solutions of rare earths by x-ray spectral fluorescence, 22:27581
determination in solutions, x-ray fluorescent spectrometric, 21:40797
determination in spark discharges, limits and sensitivity for spectroscopic, 21:40772 (IS-1600, Paper 3)
determination in thorium and uranium fuels by thermal neutron activation and radiochemical separation, 24:33661
determination in various materials by spectrographic method, 22:48810 (AERE-R-5799)
determination in xenotimes from Lawabe and Karasugawa mines in Japan, chemical and x-ray fluorescence methods for, 23:28676
determination in yttrium oxide by photoluminescence, quantitative, 23:2199
determination in yttrium oxide by rf spark-source mass spectrography, sensitivity factors for, 25:39418
determination in yttrium oxide by spectrophotoluminescence, 22:8025
determination in yttrium oxide matrix by cathode-ray-excited emission spectroscopy, 22:25270
determination in yttrium oxides by solvent extraction and spectrography, 25:26168
determination in zinc sulfide matrix by cathode-ray-excited emission spectroscopy, 22:25270
determination in zircon by absorptiometric and neutron activation methods, 23:40579 (AERE-AM-109)
determination of trace amounts of, by high-current impulse argon arc method, spectrographic, 22:40012
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in gadolinium oxide by x-ray-excited optical luminescence, 25:12948
determination of trace amounts of, in lanthanum oxide by dc arc method using Stallwood jet, spectrographic, 24:46170 (BARC-472)
determination of trace amounts of, in lanthanum oxide, neodymium oxide, and yttrium oxide by direct reading emission spectrometry, 25:2096
determination of trace amounts of, in lanthanum oxides and yttrium oxides by emission spectrometry using rotating electrode, 24:24994
determination of trace amounts of, in lanthanum oxides by emission spectrography, 23:37895
determination of trace amounts of, in lunar dusts and rocks from Apollo 11 by neutron activation, 24:20737
determination of trace amounts of, in lunar rocks and soil from Apollo 11 by mass spectrography, 24:20733
determination of trace amounts of, in lunar rocks from Apollo 11 and meteorites by spark source mass spectrography, 24:20735
determination of trace amounts of, in nuclear grade uranium by x-ray excited optical fluorescence, 25:54428
determination of trace amounts of, in phosphate deposits by spark source mass spectrometry, 25:10456
determination of trace amounts of, in phosphate rock, cathode-region method for spectrochemical, 24:2109
determination of trace amounts of, in plutonium and plutonium dioxide—uranium dioxide by solvent extraction and emission spectrography, 25:12923 (WHAN-SA-47)
determination of trace amounts of, in rare earth compounds by direct-reading emission spectrometry using rotating electrode, effects of organic solvents on, 24:41195
determination of trace amounts of, in soils by neutron activation and ion exchange separation, 23:13671 (CEA-CONF-1183)
determination of trace amounts of, in thorium oxides by x-ray-excited fluorescence methods, 24:16430
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of traces of, in yttrium oxides, spectrographic, 22:22950
determination of, by oxyhydrogen flame excitation of atomic spectra, 21:2945
determination of, color reactions with bisazo-substituted chromotropic acids for spectrophotometric, 25:20924
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in fluoride electrolytes using activation analysis, 21:12296
determination of, in highly irradiated uranium dioxide, 21:15840
determination of, in neodymium oxide, activation, 21:3002
determination of, in other rare earths using thymolphthalexon, spectrophotometric, 21:12339
determination of, in rocks by activation analysis, 21:5797
determination of, in silica—alumina catalysts, x-ray spectrographic, 21:15854
determination of, in silicate rocks by x-ray fluorescence, 21:15873
determination of, spectrophotometric study of 16 reagents for use in, 21:26
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination of, using Pyrocatechol Violet, spectrophotometric, 21:1292
determination simultaneously with other rare earths by cation exchange chromatography, 24:33629
determination simultaneously with other rare earths and actinides in solutions of transuranium elements, 25:23518
determination using 4,5-dihydroxy-m-benzenedisulfonic acid, in presence of Eriochrome Cyanine R, titrimetric, 25:18348
determination using 4-(2-pyridylazo)resorcinol, spectrophotometric, 21:19545
determination using cetylpyridinium bromide and Xylenol Orange, spectrophotometric, 22:8017
determination using Chrome Azurol S, spectrophotometric, 23:4525
determination using high-voltage ac arc, sensitivity of spectrographic, 24:10
determination using o-[[1,8-dihydroxy-3,6-disulfo-7-[(m-sulfophenyl)-azo]-2-naphthyl]azo]benzenearsonic acid, 23:13643
determination using o-[[1,8-dihydroxy-7-[(1-hydroxy-3,8-disulfo-2-naphthyl)azo]-3,6-disulfo-2-naphthyl]azo]benzenearsonic acid, spectrophotometric, 22:1993
determination using octamethylpyrophosphoramide, spectrochemical, 22:30468
determination using sodium orthovanadate, potentiometric, 22:30477
determination using triammonium salt of aurintricarboxylic acid, spectrophotometric, 21:38913
diffusion in quartz tube with temperature gradient, 24:2285
diffusion of cobalt, gold, and silver in, 23:41611
diffusion of copper and zinc in, mechanism of, 25:41833(R) (IA-1218)
diffusion of copper in, 25:29841
diffusion of trace amounts of, in aluminum, 23:20497 (BARC-368)
diffusion of zinc in bcc and double-hcp, thin-layer lathe-sectioning method for measurement of, 24:51170
dissolution in acetic acid, hydridic hydrogen in precipitates from, 23:40511 (MLM-1648)
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution in igneous molten or solid solutions of barium fluoride, calcium fluoride, and strontium fluoride, cryometric measurement of coefficients for, 24:27061
distribution in zircons, 24:39085
effects as impurity on whiteness of lanthanum oxide, 23:40658
effects of, on luminescence of cadmium and zinc chalcogenides, 21:12434(P)
effects on arsenate-iodimetric determination of hafnium, 23:15795
effects on determination of fluorine in organic compounds and metal-organic compounds by neutron activation methods, 22:14439
effects on electric conductivity of zirconium boride, (E), 23:36800
effects on extraction-photometric determination of niobium, 23:49721
effects on gadolinium EPR in lanthanum—ruthenium intermetallic compound, (E/T), 23:23293
effects on grain size and structure of structural steels, 21:3513
effects on γ-induced thermoluminescence in lanthanum fluorides, 22:1315
effects on radioinduced coloration of potassium chloride crystals, 23:46551
effects on radiolysis of crystalline potassium nitrate, 25:54638
effects on superconductors, 22:52689
elastic modulus and ultrasonic attenuation at 4.2 to 300°K, temperature dependence of, (E), 23:27072
electric conductivity at 18°C, 21:3507
electric conductivity of solid and liquid, (E), 24:6189
electric conductivity of, at 2 to 325°K, 21:13176
electric conductivity of, magnetic part of temperature dependence of, (T), 23:14892
electric conductivity, pressure effects on, (E), 23:42475 (AERE-R-5965)
electromigration in, effects of pulsed and steady currents on copper and iron, 25:22047 (BM-RI-7480)
electron band structure of fcc, relativistic augmented-plane-wave calculations of, 24:28437
electronic energy levels of, effects of ligand fields on, 21:38956
electronic properties of ferromagnetic fcc, at room and liquid-helium temperatures, (E), 23:34502
energy bands and Fermi surfaces of, relationship to magnetic ordering and crystal structure of, (T), 23:5480
energy level multiplets of Pr III 4f^{2}5d, overlapping, 22:45936
energy levels of, quadrupole shielding and antishielding factors for atomic, 22:5070
energy-level spins and transitions from cerium-143 decay, (E), 21:25553
equation of state of, measurement by optical flash-gap techniques, 23:12345
Fermi surface of, relation to electronic properties and magnetic configurations, (T), 23:14865 (IS-T-272)
fluorescence in hydrochloric acid medium at liquid-nitrogen temperature, 23:9376
gamma resonance scattering using neutron capture beams, spectra for, (E), 22:48510 (IA-1097)
hardening and recrystallization of, effects of impurities on, 22:4756
hardening of carrier-free, effects of sodium amalgams on case-, 21:8259
heavy ion reactions with, fission fragments from, (E)), 25:17924
impurity effects on borides, 24:32926
ionization energy of trivalent, calculation of, 23:40633
ionization potential of, surface, 21:33164
ionization potential of, surface ionization comparison measurement of first, 22:24458
ionization potentials of, 22:14431 (ORNL-4196, pp 59-62)
luminescent properties of, in yttrium oxide, cathode-, (E), 23:10704
magnetic exciton dispersion in single crystal of, inelastic neutron-scattering study of, 25:45600
magnetic form factor and magnetic moment for, (E), 21:20518
magnetic generalized susceptibility of, calculations using bands and Fermi surfaces, 23:30653
magnetic properties at low temperatures, (E), 22:39164 (NYO-3454-22, Paper 3)
magnetic properties in fields at low temperatures, 25:7476
magnetic properties of, 23:8648 (CONF-681020-(Vol.1), pp 49-58)
magnetic properties of single crystals of, (E/T), 25:47641
magnetic properties of single crystals of, at 2 to 300°K, (E), 25:47638
magnetic properties, pressure effects on, 23:36800
magnetic structure in strong magnetic fields, 25:43435(R) (RISO-237)
magnetic structure of, 25:7475(R) (RISO-215)
magnetic structure of single crystals of, crystal-field effects in, 24:45347
magnetic structure of single crystals of, neutron-diffraction study of, 25:47637
magnetic structure of, hyperfine interactions from nuclear specific heat measurements, 24:15411
magnetic structure of, neutron-diffraction study, 25:22632 (RISO-M-1300)
magnetic susceptibility, 21:13176
magnetic susceptibility in scandium and yttrium hexaborides, 24:6652
magnetic susceptibility of, generalized function for, (T), 25:43477
magnetic susceptibility, (T), 23:14865 (IS-T-272)
magnetic transitions of α-, β-, and γ-, (E), 25:47639
magnetism of metallic, 21:44161
mechanical properties of pure, effects of strain rate and temperature on, (E), 24:48844
melting and transformation temperatures of, effects of impurities on, 24:17191 (IS-2100, Sect. M)
melting point and transformation temperature of, effects of sixth-period elements on, 24:17308 (IS-T-328)
melting point anomalies of, 21:26825
melting point of, effects of 6th period metal additions on, 22:2560(R) (IS-RD-11)
meson (π) reactions with, 4f—3d x rays from, 22:47838
neutron capture by, upper limit for strength functions of d-neutrons in, (T), 22:32592
neutron elastic scattering at 4.4, 5.0, and 5.5 MeV, polarization in, (E), 21:13840
neutron paramagnetic scattering cross section at 0.001 to 0.12 eV, (T), 22:22537
neutron reactions at 1.00 to 18.022 MeV, total cross sections for, (E), 25:53728 (AECD/EP-18)
neutron reactions with, to produce cerium-141, 21:15939
neutron scattering on tripositive ions of, cross-section calculations for thermal, (T), 24:52378
neutron total cross sections at 0.001 to 1.0 eV, (E), 21:15583
neutron total cross sections at 4.5 to 7.5 MeV, (E), 22:9842
neutron total cross sections at 4.5 to 7.5 MeV, fluctuations in, (E), 21:35451
neutron total cross sections at 6 eV to 250 keV, (E), 22:18225
nuclear level densities from neutron inelastic scattering, (E/T), 22:27217
oxidation at 300 to 500 deg C of foils of, kinetics of, 21:3012 (AWRE-O-72/66)
oxidation potential for trivalent—tetravalent, 25:57437
phase transitions in, between 20 and 273°K, 25:45073
photon reactions (γ,n) with, angular distributions and spectra for, (E), 21:27569 (MIT-2098-299, pp 19-34)
photon reactions with, isomer yields and production cross sections for, 24:49
praseodymium-141 Moessbauer spectra in, 25:36344
praseodymium-141 NMR in, 25:5226
praseodymium-142 concentration in, by neutron capture reaction, 25:202 (CONF-700403-(Vol.1), pp 448-59)
praseodymium-142 nuclear orientation in, from anisotropy of gamma emission, 25:30662 (COO-1569-76)
precipitation and thermogravimetric study as dicarboxylates, 25:32066
precipitation with ferric hydroxide, 22:51070
preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
preparation of high-purity, 23:962 (IS-1900, Paper 5)
preparation of high-purity, by oxide electrowinning, 21:26764 (BM-RI-6957)
preparation of high-purity, chlorination and reduction method for, 23:46031(P)
preparation of large single crystals of, 25:42834
preparation of single crystals of, study of methods for, 25:22026 (IS-T-408)
preparation of tritiated targets of, for studying (d,n) reactions, 24:47537
preparation of, procedures and equipment for, 22:27694
properties for laser action, 22:24391 (CONF-670502-, pp 228-38)
radioinduced formation of divalent, as dilute solutes in alkaline earth halides, 22:30622
radiolysis of aqueous solutions of, formation and reactions of tetravalent ions in electron pulse, 25:51508 (CONF-711001-(Vol.2), pp 560-72)
reactions with 6-hydroxy-2,4-diphenyl-7H-benzopyran-7-one, spectrophotometric studies on, 24:5585
reactions with dichloromaleoldehydic acid, compound formation in, 23:9511(R) (MLM-1520)
reactions with hydrogen at 100 to 800°C, effects of composition and time on mechanism of, 24:27762
reactions with nitrate ions and water, spectral studies on effects of solvents on, 22:45010
reactions with rare earth carbides, thermodynamics of, 25:29039
separation as trifluoroacetylacetone chelate, thin-layer chromatographic, 25:32047
separation by adsorption chromatography, effects of cadmium oxalate on, 24:25108
separation by chromatographic elution using high-pressure ion exchange, 23:35311

separation from acetate buffer solution by carburization and extraction using sodium amalgam, 23:28976
separation from acid solutions by solvent extraction using alkyl sulfoxides, 24:16485 (IS-2100, Sect. C)
separation from adjacent rare earths by electromigration, effects of consecutive complex formation on, 25:32051
separation from alkaline earth and other rare earth elements, effects of lactic acid on anion-exchange, 22:18882
separation from aminopolyacetic acids and/or carboxylic acids by solvent extraction using bis(2-ethylhexyl) phosphate, 22:16663
separation from aqueous nitric acid solutions by solvent extraction using TBP, 24:9466
separation from aqueous solutions by solvent extraction using DTPA, studies for, 25:57549
separation from aqueous solutions by solvent extraction using carboxylic acids, effects of diluents on, 21:24096
separation from aqueous solutions by solvent extraction using 1,1,1,2,2,3,3-heptafluoro-7,7-dimethyl-4,6-octanedione, 25:223
separation from aqueous solutions by solvent extraction using two sterically hindered β-diketones, 25:32064
separation from aqueous solutions by solvent extraction using 2,2,6,6-tetramethyl-3,5-heptanedione, 22:33542
separation from aqueous solutions by solvent extraction using 2,2,6,6-tetramethyl-3,5-heptanedione, 22:48904
separation from aqueous solutions by solvent extraction using TOA—TTA systems, 24:31462
separation from aqueous solutions containing lithium nitrate, complexometric, 21:22027
separation from cerium and neodymium by solvent extraction chromatography using dinonylnaphthalenesulfonic acid—hydrochloric acid and sodium perchlorate—TBP, 22:6392
separation from cerium by adsorption process using manganese oxide, 25:41883
separation from cerium by electromigration of α-hydroxyisobutyric acid complexes, effects of ligand concentration on, 24:36379
separation from cerium by ion exchange using tin molybdate, 25:21085
separation from cerium by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from cerium by precipitation, 22:18908
separation from cerium by solvent extraction using primary amine with diethylenetriaminepentaacetic acid, 22:10319 (BM-RI-7100)
separation from cerium by solvent extraction using bis(2-ethylhexyl) phosphate, 22:18908
separation from cerium fission products by distribution chromatography, 21:36088
separation from cerium using sulfuric acid—ammonium acetate mixture, 22:33511
separation from cerium, lanthanum and neodymium by complexing with hydrazodiacetic acid and ion exchange, 22:30662
separation from cerium(IV) by chromatography, 25:46534
separation from dysprosium, lanthanum, and thulium by ion exchange using (1,2-cyclohexylenedinitrilo) tetraacetic acid, 22:23097 (INR-P-860/VIII/C)
separation from europium or ytterbium by solvent extraction using trioctylphosphine oxide, 25:21104
separation from euxenite by complexing with EDTA and ion exchange, 24:11684
separation from fission products by electromigration following complexing with nitrilotriacetic acid, 25:57558
separation from fission products using sulfur hexafluoride and sodium fluoride beds, 22:33545
separation from hydrochloric acid by solvent extraction using chloroform—N-phenylbenzohydroxamic acid system, 23:11400 (GAT-525)
separation from hydrochloric acid solutions of neodymium chloride and samarium chloride by solvent extraction using bis(2-ethylhexyl) phosphate, distribution equilibria for, 24:11676
separation from hydrochloric, nitric, and perchloric acids by solvent extraction using bis(2-ethylhexyl) phosphate, 23:49900
separation from lanthanum by extraction using cyclohexanone and calcium nitrate, 23:7607
separation from lanthanum by extraction using cyclohexanone and calcium nitrate, 23:7606
separation from metals by reversed-phase column chromatography or solvent extraction using sulfoxides, 23:43382 (IS-T-293)
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from mineral acid solutions by solvent extraction using methylenebis[dialkylphosphine oxides], 24:16485 (IS-2100, Sect. C)
separation from mineral acids by solvent extraction using bis(2-ethylhexyl) phosphate, 22:16663
separation from molten alkali metal nitrates by solvent extraction using neutral organophosphorus compounds, 25:21101
separation from molten alkali metal nitrates by solvent extraction using trioctylphosphine oxide, 25:21104
separation from neodymium by elution chromatography using glycine, 24:31461
separation from neodymium by extraction chromatography using Aliquat-336—lithium nitrate system, 23:35259 (INP-675)
separation from neodymium by fractional precipitation, 25:32066
separation from neodymium by ion exchange using EDTA eluent, effects of type of resin on mechanism of, 23:45386
separation from neodymium by solvent extraction using primary amine with diethylenetriaminepentaacetic acid, 22:10319 (BM-RI-7100)
separation from neodymium by solvent extraction using TBP containing neutral salting-out agents, 23:7614
separation from neodymium by Szilard-Chalmers effect in EDTA or DTPA complexes, 22:40157 (JINR-P12-3886)
separation from neodymium using (ethylenedinitrilo) tetraacetic acid, effects of temperature on chromatographic, 21:28068
separation from neodymium using high-pressure ion exchange, 24:9485
separation from neutral nitrate solutions by extraction using cyclohexanone and calcium nitrate, 23:7606
separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
separation from nitric acid by solvent extraction using dibutyl butylphosphonate—TBP in benzene, carbon tetrachloride, or 5-methyl-3-hexanone, 24:9460
separation from nitric acid by solvent extraction using trialkylphosphine oxide, 22:18876
separation from nitric acid by solvent extraction using TBP as function of temperature, thermodynamics of, 24:20861
separation from nitric acid or neutral solutions by extraction using oxygen-containing organic compounds and salting-out agents, 23:7607
separation from nitric acid solutions by extraction, evaluation of trioctylarsine oxide, trioctylphosphine oxide, and tridodecylamine for, 21:34251 (JUL-434-PC)
separation from ores, 22:40191
separation from other fission products by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from other lanthanides by countercurrent electrolysis in aqueous acetate solutions, 24:46316
separation from other metals by solvent extraction, 21:39005
separation from other rare earth fission products by ion exchange using (ethylenedinitrilo)tetraacetic acid, effects of lactic acid on, 21:25941
separation from other rare earths, 22:23090 (CONF-670502-, pp 692-700)
separation from other rare earths as EDTA complex by ion exchange, effects of resin crosslinking on, 24:44076
separation from other rare earths by anion exchange chromatography, 23:45387
separation from other rare earths by crystallization as chloride from aqueous solutions, 24:11688
separation from other rare earths by ion exchange, 21:17713
separation from other rare earths by ion exchange, 22:6277
separation from other rare earths by ion exchange, 25:29178 (CEA-R-4102)
separation from other rare earths by ion exchange chromatography, 24:33776
separation from other rare earths by ion exchange chromatography, 25:34714
separation from other rare earths by ion exchange using acetate—citrate solution as eluting agent, 23:7622
separation from other rare earths by ion exchange using α-hydroxyisobutyric acid, 21:39015
separation from other rare earths by ion-exchange chromatography, 22:18888
separation from other rare earths by solvent extraction using Aliquat-336 and DCTA, DTPA, or HEDTA, 25:32033 (BM-RI-7524)
separation from rare earths by ion exchange using EDTA in acid media, 22:42846
separation from rare earths by oxalate decomposition, method for, 22:30552
separation from rare earths by solvent extraction using naphthenic acids, 22:27868
separation from rare earths by thermal decomposition in oxygen atmosphere, 23:407
separation from rare earths in aqueous acetate—chloride solutions by solvent extraction using fluorinated β-diketones and TBP, synergic effects in, 24:36350 (IS-T-353)
separation from rare earths using lactic acid, calculations for ion exchange, 22:12417
separation from ruthenium on inorganic redox ion exchanger, 21:43029
separation from samarium and ytterbium by reduction using sodium amalgam and cesium acetate, 23:13849
separation from ytterbium by solvent extraction using mixtures of thenoyltrifluoroacetone and TBP, 22:51049
separation from yttrium using N-(carboxymethyl)-N'-(2-hydroxyethyl)-N,N'-ethylenediglycine or EDTA, effects of temperature on ion exchange, 22:10337
separation of europium from, by amalgam method, 21:32248
separation of fission-product, from plutonium and uranium, molten salt transport process for, 21:4590 (ANL-7125, pp 21-60)
separation of neodymium from, high-pressure ion exchange column for chromatographic, 21:28054 (ORNL-TM-1876)
separation of neutron-irradiated, from praseodymium-142, ion exchange, 24:16646
separation of oxidized states of, by thin-layer chromatography, 24:27208
separation of promethium from, by ion exchange chromatography, 23:405
separation of thorium and uranium from trivalent, by ion exchange, 22:142
separation of trace amounts of, from aqueous and organic solutions by ion exchange using carboxy cellulose, 23:19844
separation of trace amounts of, from uranium by ion exchange, effects of fluorides on, 22:47215
separation of uranium from, by thin-layer chromatography, 21:25944
separation of, from cerium and neodymium by precipitation using displacement, exchange, and redox reactions, 21:1436
separation of, from cerium-144, chromatographic, 21:1302
separation of, from lanthanum by precipitation using displacement, exchange, and redox reactions, 21:1436
separation of, from neodymium by precipitation using displacement, exchange, and redox reactions, 21:1436
separation of, from other rare earths by high-voltage electrophoresis, 21:5988 (CEA-R-2877)
separation of, from other rare earths by ion exchange, 21:14296
separation of, from other rare earths, effects of α-hydroxyisobutyric acid on ion-exchange, 21:14298
solubility in aluminum at 500, 600, and 620°C, solid-state, 23:22537
solubility in chromium at 1000 to 1800°C, metallographic, microhardness, and x-ray diffraction measurements on, 25:58237
solubility in chromium, effects of temperature on, 25:27238
solvation number of, in solution, equations for calculating, 22:23003 (IA-1128, pp 97-146)
solvent properties of liquid, for tantalum, 21:3473
sorption by manganese dioxide from nitric acid, 22:157
sorption by silica gel from aqueous acetone solutions of hydrochloric acid, 23:40671
sorption in the presence of polyaminopolycarboxylic acids, kinetics of ion-exchange, 22:23022
sorption on ion exchange resin containing (benzylimino) diacetic acid, 23:13847
specific heat between 3 and 25°K, 21:32895
spectra in aluminum, beryllium, germanium, magnesium, and silicon compounds, studies on x-ray, 21:35976
spectra of oxidized states of, 24:27208
spectra of Pr V at 840 to 2250 A, (E), 22:26247
spectra of, effects of sample self-absorption on x-ray emission, 23:6100
spectra of, energy levels and intensities in solution absorption, 23:4589 (ANL-7358)
spectra of, extreme ultraviolet absorption, (E), 25:965 (DESY-70/41)
spectra of, L$\alpha_{1,2}$, (E), 22:9014
spectra of, quadrupole lines in L, (E), 21:20768
spectra of, ultraviolet absorption, 25:11698
spin—spin interactions in, numerical values of, 23:12573
structure of, valence electron, 21:45135
surface ionization of, efficiencies for, 21:19592(T) (ORNL-tr-1594)
thermal capacity at 0.4 to 4°K, analysis of data on, 22:23757 (CONF-670502-, pp 568-80)
thermal capacity at 1.2 to 4.2°K, effects of magnetic fields up to 40 kG on, 25:19869
thermal capacity in magnetic fields at low temperatures, 25:7476
thermal conductivity at 18°C, 21:3507
use of tritiated targets of, as source in x-ray fluorescence analysis, 23:19908 (ORO-3224-14)
vapor pressures at 1724 to 1874°K, 22:10924(R) (DRI-2437)
viscosity of liquid, 21:17607 (NYO-2082-9)
x-ray absorption spectra for, soft, 22:3209
x-ray attenuation coefficients at 2.3 to 26.3 keV, 24:17652
x-ray emission spectra of, self-absorption effects in soft, (E), 22:7149
x-ray spectra of, effect of f-electron removal on energy of K/sub α_1/ lines in, (E), 24:3161

PRASEODYMIUM ACETATES
preparation of anhydrous, 22:23000 (CONF-670502-, pp 366-73)

PRASEODYMIUM ALLOYS AND SYSTEMS
Ag—Al—Pr, crystal structure of, 21:45958
Ag—Al—Pr, magnetic properties of, 21:45958
Ag—Pr, electric conductivity and praseodymium solubility in, 21:2314
Ag—Pr, phase studies of, 23:8208 (CONF-681020-(Vol.1), pp 207-19)
Al—Ce—Pr, magnetic properties of Laves-phase intermetallic compounds of, (E), 22:39163 (NYO-3454-22, Paper 2)
Al—Co—Pr, crystal structure of, 21:45958
Al—Co—Pr, magnetic properties of, 21:45958
Al—Cu—Pr, crystal structure of, 21:45958
Al—Cu—Pr, magnetic properties of, 21:45958
Al—Dy—Pr, magnetic properties of Laves-phase intermetallic compounds of, (E), 22:39163 (NYO-3454-22, Paper 2)
Al—Fe—Pr, crystal structure of, 21:45958
Al—Fe—Pr, magnetic properties of, 21:45958
Al—Ho—Pr, magnetic properties of Laves-phase intermetallic compounds of, (E), 22:39163 (NYO-3454-22, Paper 2)
Al—La—Pr, magnetic and crystallographic properties at low temperatures, (E), 22:39165 (NYO-3454-22, Paper 4)
Al—Mn—Pr, crystal structure of, 21:45958
Al—Mn—Pr, magnetic properties of, 21:45958
Al—Nd—Pr, magnetic properties of Laves-phase intermetallic compounds of, (E), 22:39163 (NYO-3454-22, Paper 2)
Al—Ni—Pr, crystal structure of, 21:45958
Al—Ni—Pr, magnetic properties and phase diagram of PrNi/sub x/Al/sub2-x/, 25:9576
Al—Ni—Pr, magnetic properties of, 21:45958
Al—Pr, aluminum-27 NMR Knight shifts and magnetic susceptibility of Pr_3Al_{11}, 24:12906
Al—Pr, crystal structure of intermetallic compound $PrAl_3$ in, 22:6299
Al—Pr, crystal structure of intermetallic $PrAl_3$, 22:2650
Al—Pr, magnetic and crystallographic properties of intermetallic $PrAl_2$ and $PrAl_3$, (E), 22:39165 (NYO-3454-22, Paper 4)
Al—Pr, magnetic properties of intermetallic AlPr at 2 to 300°K, 21:3505
Al—Pr, magnetic properties of intermetallic compounds of, 21:4932 (LA-DC-8136)

Al—Pr, magnetic properties of intermetallic Pr$_2$Al, Pr$_3$Al, and Pr$_4$Al at 4 to 300°K, (E), 22:39166 (NYO-3454-22, Paper 5)
Al—Pr, magnetic properties of intermetallic PrAl, 21:26830
Al—Pr, magnetic properties of intermetallic PrAl$_2$, (E), 21:20518
Al—Pr, magnetic properties of intermetallic PrAl$_2$ in, effects of temperature on, (T), 23:8658 (CONF-681020-(Vol.1), pp 335-46)
Al—Pr, magnetic properties of intermetallic, (E/T), 22:48162
Al—Pr, magnetic properties of PrAl$_2$, (E), 22:48197
Al—Pr, magnetic susceptibility and Knight shift in, (E), 21:35218 (COO-1198-453)
Al—Pr, structure of intermetallic PrAl$_4$, 21:28783
Al—Pr, thermal capacity at 8 to 300°K of PrAl$_2$, magnetic contribution to, 25:47674
Al—Pr, thermal capacity of Laves compound PrAl$_2$ at low temperatures, nuclear hyperfine effects in, (E), 23:30645
Al—Pr, thermal capacity of PrAl$_2$ at low temperatures, 25:5218
Al—Pr—Y, magnetic and crystallographic properties at low temperatures, (E), 22:39165 (NYO-3454-22, Paper 4)
Al—Pr-base, crystal lattice parameters of intermetallic Pr$_3$Al, 25:35495
Au—Pr, crystal structures and melting points of intermetallic, 25:55570
Au—Pr, decomposition of gaseous intermetallic PrAu in, thermodynamics of, 24:34903
Au—Pr-base, phase diagram of, 25:55567
Au—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Au—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
Ba—Pr, phase studies of, 25:16398 (IS-2300, pp 101-86)
Ba—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Ba—Pr-base, phase diagram of, 25:55567
Bi—Cu—Pr, structure of intermetallic Pr$_2$Bi$_2$Cu, 23:14361
Bi—Pr, crystal field interactions in intermetallic PrBi, 25:35355
Bi—Pr, crystal field levels in PrBi, neutron inelastic scattering study of, 25:27893
Bi—Pr, crystal field levels of PrBi, neutron inelastic scattering study, 24:49267
Bi—Pr, crystal structure of intermetallic compounds in, 21:20529
Bi—Pr, crystal-field levels of praseodymium ions in PrBi, neutron-scattering study of, 24:24150
Bi—Pr, hyperfine-enhanced nuclear magnetic cooling in, 23:3412
Bi—Pr, magnetic ordering of intermetallic PrBi, self-polarization contribution to, (T), 25:14460
Bi—Pr, phase studies of, 25:16398 (IS-2300, pp 101-86)
Bi—Pr, praseodymium-ion crystal field levels in PrBi, neutron time-of-flight spectrometric study of, (E), 24:5208 (BNL-14131)
Bi—Pr, spontaneous nuclear ordering in, (E), 23:20988
Bi—Pr, thermal capacity measurements on intermetallic compounds in, at 4 to 300°K, 22:35823
Bi—Pr, thermal capacity of intermetallic PrBi at 7 to 300°K, 25:35355
Bi—Pr, thermal capacity of intermetallic PrBi, at 1.5 to 300°K, 22:23756 (CONF-670502-, pp 546-55)
Bi—Pr, thermal capacity of PrBi at low temperatures, 25:5218
Bi—Pr-base, phase diagram of, 25:55567
Bi—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Bi—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
C—In—Pr, preparation and properties of intermetallic CInPr$_3$, 21:3552
C—Pb—Pr, preparation and properties of intermetallic CPbPr$_3$, 21:3552
C—Pr—Sn, preparation and properties of intermetallic CPr$_3$Sn, 21:3552
C—Pr—Tl, preparation and properties of intermetallic CPr$_3$Tl, 21:3552
Cd—Pr, magnetic properties of intermetallic CdPr, 21:39637
Cd—Pr, thermodynamic properties of intermetallic PrCd, 21:4479 (ANL-7125, pp 119-49)
Cd-base—Pr, thermodynamic properties at 635 to 825°K, 24:25691
Ce—O—Pr, phase studies on, 21:45071 (COO-1109-25, pp 6-48)
Ce—Pr, phase stability and stacking faults in, (E), 21:24788
Co—Cu—Pr, magnetic properties of PrCo/sub x/Cu/sub 5-x/, 24:47327
Co—Dy—Pr, magnetic properties and phase diagram of Pr/sub x/Dy/sub 1-x/Co$_2$, 25:9576
Co—Dy—Pr, structure and magnetic properties of intermetallic compounds of, at 2 to 300°K, 25:1311 (CONF-700403-(Vol.1), pp 41-52)
Co—Fe—Pr, crystal structure of, 22:23821
Co—Fe—Pr, lattice constants for Pr$_2$(Co/sub 1-x/Fe/sub x/)$_{17}$, 25:52374 (CONF-711001-(Vol.1), pp 368-78)
Co—Ho—Pr, magnetic properties and phase diagram of Pr/sub x/Ho/sub 1-x/Co$_2$, 25:9576
Co—Ho—Pr, structure and magnetic properties of intermetallic compounds of, at 2 to 300°K, 25:1311 (CONF-700403-(Vol.1), pp 41-52)
Co—Nd—Pr, magnetic properties of Pr$_{0.87}$Nd$_{0.13}$Co$_5$, 25:27886
Co—Ni—Pr, phase studies of, 22:23821
Co—Pr, crystal structure and magnetic properties of intermetallic compound Pr$_2$Co$_{17}$, 21:27932 (AFML-TR-66-420)
Co—Pr, crystal structure of intermetallic compounds in, 21:4961
Co—Pr, crystal structure of Pr$_2$Co$_{1.7}$, 25:52372 (CONF-711001-(Vol.1), pp 96-101)
Co—Pr, Curie point of intermetallic PrCo$_5$, pressure dependence of, 23:30019
Co—Pr, magnetic and crystallographic properties of PrCo$_5$, (E), 22:26511
Co—Pr, magnetic moment and anisotropy of PrCo$_5$ single crystals, 25:47643
Co—Pr, magnetic properties of intermetallic PrCo$_5$, 23:44543
Co—Pr, magnetic properties of intermetallic PrCo$_5$, effects of particle surface treatment on, 25:1307 (CONF-700403-(Vol.1), pp 3-10)
Co—Pr, magnetic properties of PrCo$_5$ magnets sintered with samarium—cobalt aid, 25:52939 (CONF-711001-(Vol.1), pp 252-60)
Co—Pr, magnetic resonance at 9.3 GHz of intermetallic PrCo$_5$, (E), 23:20983
Co—Pr, magnetic resonance of PrCo$_5$, microwave, 25:5200
Co—Pr, magnetic structure of PrCo$_5$, neutron diffraction study, 25:5210
Co—Pr, paramagnetism in PrCo$_5$, effects of pressure on, 25:47650
Co—Pr, preparation of intermetallic PrCo$_5$, 21:26770
Co—Pr, sintering and magnetic properties of PrCo$_5$ permanent magnets, 25:29797
Co—Pr, thermal capacity of Laves compound PrCo$_2$ at low temperatures, nuclear hyperfine effects in, (E), 23:30645
Co-base—Pr, phase diagram of, 25:684 (CONF-700403-(Vol.2), pp 524-31)
Cr—Pr, phase diagram, 24:1038
Cs—Pr, phase studies of, 25:16398 (IS-2300, pp 101-86)
Cs—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Cs—Pr-base, phase diagram of, 25:55567
Cu-base—Pr, crystal structure of intermetallic PrCu$_6$, 24:23492
Dy—Ni—Pr, magnetic properties and phase diagram of Pr/sub x/Dy/sub 1-x/Ni$_2$, 25:9576
Er—Mn—Pr, crystal structure of, 25:13707
Er—Mn—Pr, magnetic properties of, 25:13707
Eu—Ge—Pr, structure of Pr/sub 5-x/Eu/sub x/Ge$_3$, 25:42895
Fe—Ni—Pr, crystal structure of, stability of, 22:23821
Fe—Pr, crystal structure of intermetallic Pr$_2$Fe$_{17}$, 23:14356
Fe—Pr, magnetic properties of intermetallic compounds in, 21:45916
Fe—Pr, magnetic transition temperatures of Pr$_2$Fe$_{17}$, Moessbaüer study of, 24:24181
Fe—Pr, phase studies of, 23:8209 (CONF-681020-(Vol.2), pp 473-84)
Ga—Pr, formation and structure of intermetallic compounds in, 21:11208 (ANL-7155, pp 167-289)
Ga—Pr, phase studies on intermetallic compounds of, 22:2649
Gd—Mn—Pr, magnetic properties of Pr/sub x/Gd/sub 1-x/Mn$_2$, high-temperature, 25:42894
Gd—Mn—Pr, structure of Pr/sub x/Gd/sub 1-x/Mn$_2$, 25:42894
Gd—Pr, coupling of, specific heat measurements at 0.3°K for determination of hyperfine, 23:41651 (CEA-R-3538)
Gd—Pr, crystal structure and magnetic properties of rapidly quenched, 24:19430
Gd—Pr, crystal structure, stability, and axial ratios of, 22:696
Gd—Pr, crystal structures of, 24:24164
Gd—Pr, lattice spacings of, at room temperature, 21:3931
Gd—Pr, magnetic properties of, 24:24164
Gd—Pr, properties of rapidly quenched, magnetic and structural, 23:33993 (CALT-221-67)
Gd—Pr, structure and magnetic properties of, 24:21883 (CEA-CONF-1476)
Gd—Pr-base, electric conductivity of, effects of pressure on, 24:36916
Gd—Pr-base, pressure effects on electric conductivity of, (E), 23:42475 (AERE-R-5965)
Ge—Pr, preparation of intermetallic PrGe, PrGe$_2$, and Pr$_5$Ge$_3$, 22:10958
Ge—Pr, properties of intermetallic compounds PrGe, PrGe$_2$, and Pr$_5$Ge$_3$ in, electric and thermal, 24:1031
Hf—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Hf—Pr-base, phase diagram of, ·25:55567
Hg—Pr, phase diagram from amalgam decomposition temperatures, 21:4960
Hg—Pr-base, phase diagram of, 25:55567
Hg—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Hg—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
Ho—Ni—Pr, magnetic properties and phase diagram of Pr/sub x/Ho/sub 1-x/Ni$_2$, 25:9576
Ho—Pr-base, electric conductivity of, effects of pressure on, 24:36916
Ho—Pr-base, pressure effects on electric conductivity of, (E), 23:42475 (AERE-R-5965)
In—Pr, crystal structure and lattice constants of intermetallic compounds of, 23:3077
In—Pr, magnetic properties of intermetallic PrIn$_3$ at 4.2 to 500°K in, (E), 23:8650 (CONF-681020-(Vol.1), pp 91-103)
In—Pr, magnetic structure of PrIn$_3$, 23:14893
In—Pr, phase studies and lattice constants of PrIn and Pr$_3$In intermetallic compounds, 21:4973
In—Pr, preparation and properties of intermetallic InPr$_3$, 21:3552
In—Pr, thermal capacity of PrIn$_3$ at 7 to 300°K, crystal-field splitting from magnetic, 25:47675
Ir—Pr, thermionic work function measurements, 24:37563
Ir—Pr-base, phase diagram of, 25:55567
Ir—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Ir—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
La—Pr, magnetic properties, 21:26830
La—Pr, magnetic susceptibilities at low temperatures, (E), 22:39164 (NYO-3454-22, Paper 3)
La—Pr, magnetic susceptibility at 2 to 300°K, 23:8648 (CONF-681020-(Vol.1), pp 49-58)
La-base—Pr, magnetic and electric properties of solid-solution, 24:3466
Mg—Pr, thermodynamics of phase formation in, 21:28772
Mn—Pr, crystal structure of intermetallic compounds in, 21:34913(R) (AFML-TR-66-366)
Mn—Pr, crystal structure of intermetallic compounds of, 21:26839
Mn—Pr—Tb, magnetic properties of Pr/sub x/Tb/sub 1-x/Mn$_2$, high-temperature, 25:42894
Mn—Pr—Tb, structure of Pr/sub x/Tb/sub 1-x/Mn$_2$, 25:42894
Nd—Pr, alloying behavior and phase studies of, 22:10924(R) (DRI-2437)
Nd—Pr, phase diagram, 22:10924(R) (DRI-2437)
Nd—Pr, phase studies of, 22:705
Nd—Pr, production by fused salt electrolysis, 22:21677
Nd—Pr, production by fused-salt electrolysis, commercial, 22:23729 (CONF-670502-, pp 728-39)
Ni—Pr, crystal structure of intermetallic compounds of, 23:43982
Ni—Pr, magnetic properties of intermetallic Pr$_7$Ni$_3$ in, 21:26830
Ni—Pr, magnetic properties of intermetallic PrNi$_2$ at 4 to 300°K, 22:41061
Ni—Pr, structure of PrNi$_3$ and Pr$_2$Ni$_7$, 25:693
Ni—Pr, thermal capacity measurements on intermetallic compounds in, at 4 to 300°K, 22:35823
Ni—Pr, thermal capacity of intermetallic PrNi$_2$, at 1.5 to 300°K, 22:23756 (CONF-670502-, pp 546-55)
Ni—Pr, thermal capacity of Laves compound PrNi$_2$ at low temperatures, nuclear hyperfine effects in, (E), 23:30645
Ni—Pr, thermal capacity of PrNi$_2$ at low temperatures, 25:5218
Ni—Pr—Y, magnetic properties at 4 to 300°K, 22:41061
O—Pr, composition hysteresis in, below 500°C, 24:17382
O—Pr, phase studies on, 21:45071 (COO-1109-25, pp 6-48)
O—Pr, thermodynamic properties of praseodymium oxides in, electrochemical measurements on, 24:2203
O—Pr—Tb, phase reactions between iota and adjacent phases in, tensimetric study of, 24:32503
Os—Pr-base, phase diagram of, 25:55567
Os—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Os—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
Pb—Pr, crystal structure of Pr$_5$Pb$_4$, 24:14781
Pb—Pr, phase studies of, 24:29922 (IS-RD-21)
Pb—Pr-base, phase diagram of, 25:55567
Pb—Pr-base, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pb—Pr-base, phase diagram of, thermodynamic analysis of, 25:55566
Pd—Pr, crystal lattice spacing and magnetic susceptibility at 0 to 300°K, 24:21383 (CALT-221-83)
Pd—Pr, electric conductivity of Pd$_3$Pr at 1.5 to 300°K, 25:52946 (CONF-711001-(Vol.2), pp 692-703)
Pd—Pr, magnetic properties of PrPd$_3$ at 4 to 300°K, 25:27870
Pr—PrBr$_3$, electrochemical properties of, 23:105 (ORNL-4306, pp 120-30)
Pr—PrCl$_3$, cell potentials of, electrochemical studies on, 21:45088 (ORNL-4164, pp 95-100)
Pr—Pt, conduction-electron polarization at inequivalent Pt sites in, (E/T), 22:9460
Pr—Pt, cooling of PrPt$_5$ by nuclear adiabatic demagnetization, 24:28198
Pr—Pt, magnetic properties of intermetallic PrPt$_5$, 22:4778
Pr—Pt, magnetic susceptibility of intermetallic PrPt$_2$ and PrPt$_5$ at 80 to 300°K, (E), 22:15599
Pr—Pt, nuclear magnetic cooling of PrPt$_5$, using hyperfine field, 25:27666
Pr—Pt, phase studies and lattice constants of PrPt$_5$ intermetallic compound, 21:4973
Pr—Pt, phase studies of, 22:19566
Pr—Pt, platinum-195 NMR at 80 to 300°K in intermetallic PrPt$_2$ and PrPt$_5$, (E), 22:15599
Pr—Pt, preparation and structure, 21:6832
Pr—Pu, phase diagram, 23:41534
Pr—Pu, phase diagram and structure of, 23:12341
Pr—Pu, phase diagrams, 21:32918
Pr—Sb, crystal field interactions in intermetallic PrSb, 25:35355
Pr—Sb, crystal field levels in PrSb, neutron inelastic scattering study of, 25:27893
Pr—Sb, crystal field levels of PrSb, neutron inelastic scattering study of, 24:49267
Pr—Sb, crystal structure of intermetallic compounds in, 21:20529
Pr—Sb, praseodymium-141 Moessbauer isomer shift in PrSb, 24:51854
Pr—Sb, thermal capacity of intermetallic PrSb at 7 to 300°K, 25:35355
Pr—Sb, thermal capacity of PrSb at low temperatures, 25:5218
Pr—Se, phase diagram, 21:28840
Pr—Sn, crystal structure of intermetallic Pr$_5$Sn$_3$, 21:16622
Pr—Sn, magnetic ordering in PrSn$_3$, Moessbauer and susceptibility study of, 24:24184
Pr—Sn, preparation and properties of intermetallic Pr$_3$Sn, 21:3552
Pr—Sn, tin-119 Moessbauer effect and NMR in, (E), 21:11716

Pr—Tb, crystal structure and magnetic susceptibility of, 22:36491
Pr—Te, phase studies of, 25:42986
Pr—Th, lattice spacings for solid solutions of, 21:3521
Pr—Th, magnetic properties of fcc, neutron-diffraction study of, 22:15587
Pr—Th, magnetic properties of solid solutions in, at 85 to 300°K, 22:34067
Pr—Th, phase diagrams of, 21:26856
Pr—Th, phase diagrams of, 24:10104
Pr—Th, phase equilibria in, 22:34067
Pr—Th—Y, crystal structure of, factors affecting, 21:31051
Pr—Tl, cooling of $PrTl_3$ by nuclear adiabatic demagnetization, 24:28198
Pr—Tl, crystal structure of intermetallic Pr_5Tl_3, 23:27111
Pr—Tl, crystal structure of Pr_3Tl, 25:32731
Pr—Tl, nuclear magnetic cooling of $PrTl_3$, using hyperfine field, 25:27666
Pr—Tl, preparation and properties of intermetallic Pr_3Tl, 21:3552
Pr—transition metals, phase studies of binary, with 6th period non-rare earths, 25:16398 (IS-2300, pp 101-86)
Pr—Y, crystal structure, stability, and axial ratios of, 22:696
Pr—Y, lattice spacings of, at room temperature, 21:3931
Pr—Y, magnetic properties, 21:26830
Pr—Y, magnetic susceptibilities at low temperatures, (E), 22:39164 (NYO-3454-22, Paper 3)
Pr—Y, magnetic susceptibility at 2 to 300°K, 23:8648 (CONF-681020-(Vol.1), pp 49-58)
Pr—Zn, crystal structure of intermetallic compounds of, 24:17191 (IS-2100, Sect. M)
Pr—Zn, crystal structure of intermetallic compounds in, 21:20530
Pr—Zn, crystal structure of intermetallic compounds of, 24:42151
Pr—Zn, crystal structure of intermetallic compounds of, 23:962 (IS-1900, Paper 5)
Pr—Zn, microhardness of intermetallic $PrZn_2$ in, 21:20490(R) (NYO-3560-7)
Pr—Zn, phase diagram of, 24:42151
Pr—Zn, phase diagrams, 24:17191 (IS-2100, Sect. M)
Pr—Zn, phase studies, 23:962 (IS-1900, Paper 5)
Pr—Zn, phase studies of, 25:16398 (IS-2300, pp 101-86)
Pr—Zn, structure, stoichiometry, and stability of intermetallic phases in, at 600°C, 21:20522
Pr—Zn, thermodynamic properties of, 25:32720
Pr—Zn-base, thermodynamic properties at 695 to 875°K, 24:25691
Pr-base—Pt, phase diagram of, 25:55567
Pr-base—Pt, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Pt, phase diagram of, thermodynamic analysis of, 25:55566
Pr-base—Pu, Kondo effect in, plutonium virtual bound state from, 25:5227
Pr-base—Re, phase diagram of, 25:55567
Pr-base—Re, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Ta, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Tb, electric conductivity of, effects of pressure on, 24:36916
Pr-base—Tb, pressure effects on electric conductivity of, (E), 23:42475 (AERE-R-5965)
Pr-base—Th, electric conductivity of, effects of pressure on, 24:36916
Pr-base—Th, pressure effects on electric conductivity of, (E), 23:42475 (AERE-R-5965)
Pr-base—Tl, phase diagram of, 25:55567
Pr-base—Tl, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Tl, phase diagram of, thermodynamic analysis of, 25:55566
Pr-base—W, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pr-base—Y, electric conductivity of, effects of pressure on, 24:36916
Pr-base—Y, pressure effects on electric conductivity of, (E), 23:42475 (AERE-R-5965)

PRASEODYMIUM ARSENIDES
crystal field levels in, neutron inelastic scattering study of, 25:27893
crystal field levels of, neutron inelastic scattering study of, 24:49267
magnetic coupling and NMR shifts in, effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
praseodymium-141 NMR in, 25:5226

PRASEODYMIUM BORATES
preparation by precipitation in specific media under controlled conditions, 24:9458

PRASEODYMIUM BORIDES
antiferromagnetic ordering in PrB_6, thermal-capacity and resistivity study of transition order of, (E/T), 25:11988
electronic properties of PrB_6, (E/T), 22:44268
formation of PrB_6, comparison of literature and calculated heat of, 21:19619
magnetic properties of PrB_6, 22:5434
magnetic properties of PrB_6 at 7 to 300°K, 25:25251
magnetic susceptibility at room temperature, calculation of, 21:14899
nonstoichiometry of PrB_6, (E/T), 25:52453 (CONF-711001-(Vol.2), pp 598-609)
preparation of, optimum parameters for, 23:10267
properties of PrB_6 from 5 to 350°K, thermal and electronic, (E), 23:32578 (COO-1149-149)
properties of PrB_6, effects of temperature on electric and electrochemical, 24:10166
superconductivity of, 21:41977
thermal conductivity at room temperature, calculation of, 21:14899

PRASEODYMIUM BROMIDES
f-shell transition ions in, interactions between, (E), 21:33516(R) (COO-1533-6)
praseodymium-141 Moessbauer spectra in, 25:36344
preparation of anhydrous, by dehydration of hexahydrates, 22:45046
spectra of, vapor-phase, 22:30530
structure of anhydrous, crystal and molecular, 22:45046
thermodynamic properties of, at high temperatures, 23:105 (ORNL-4306, pp 120-30)
Pr—$PrBr_3$, electrochemical properties of, 23:105 (ORNL-4306, pp 120-30)

PRASEODYMIUM CARBIDES
electron structure of, variation of effective concentration of current carriers in, 21:42169
hydrolysis of, products of, 22:16514
magnetic structure at low temperatures, relations with crystal structure, 21:18335
praseodymium-141 Moessbauer spectra in, 25:36344
reactions with rare earths, thermodynamics of, 25:29039
thermodynamic properties at 700 to 1000°C, solid-state emf measurements of, 25:32810
LuC_2—PrC_2, formation of fcc phase in, 25:773

PRASEODYMIUM CARBONATES
preparation and structure of, x-ray diffraction studies on, 21:45072 (COO-1109-25, pp 49-67)
preparation from anhydrous acetates, 22:23000 (CONF-670502-, pp 366-73)
thermal decomposition in oxygen atmosphere at 320 to 360°C, 23:407

PRASEODYMIUM CHLORIDES
charge exchange effects in crystal field of, 22:5424
complexes with diisopropyl N,N-diethylcarbamylphosphonate, structure of, 23:11500
crystal structure of heptahydrates of, 25:15635
crystal-field parameters of, calculation of charge-penetration and covalency contributions to, 23:3575
dielectric dispersion functions for, fitting of reststrahlen data by adjusting poles and zeros in, 22:52856
electric conductivity in molten potassium chloride or sodium chloride, 24:41272
f-shell transition ions in, interactions between, (E), 21:33516(R) (COO-1533-6)
gamma—gamma angular correlation in, effect of crystal field on, (T), 22:5439
phase transitions in, NMR studies of low-temperature, 25:51282 (COO-1533-14)
polarographic behavior of, on background of fused mixture of potassium chloride—sodium chloride, 23:6105
praseodymium-141 Moessbauer spectra in, 25:36344
preparation by reaction of praseodymium oxide with carbon tetrachloride, 22:2560(R) (IS-RD-11)
reactions with aluminum in 2-propanol, formation of aluminum praseodymium isopropoxide by, 22:33300
reactions with oxygen, production of praseodymium chloride oxide by, 22:33353
separation from neodymium and/or samarium chlorides in hydrochloric acid by solvent extraction using D2EHPA, 23:15869
spectra of ion-pair transitions in crystals of, (E/T), 22:7358
spectra of neodymium ions in, satellite structure of electronic transitions in, 23:12976
thermal capacity at 0.3 to 4°K, (E), 21:20609
thermal capacity of aqueous, from 0.1 molal to saturation at 25°C, 23:13689 (IS-1988)
thermal capacity of solutions of, from infinite dilution to saturation, 21:40772 (IS-1600, Paper 3)
thermodynamics of aqueous solutions of, from infinite dilution to saturation, 21:40772 (IS-1600, Paper 3)
thermodynamics of fusion of, 21:45088 (ORNL-4164, pp 95-100)
viscosity of aqueous solutions of, from infinite dilution to saturation, 21:40772 (IS-1600, Paper 3)
bis(2-ethylhexyl) phosphate—HCl—$PrCl_3$, equilibria in, 23:15869
$CeCl_3$—$EuCl_3$—$LaCl_3$—NaCl—$NdCl_3$—$PrCl_3$, melting point of, 21:42956
$CeCl_3$—$LaCl_3$—NaCl—$NdCl_3$—$PrCl_3$—$SmCl_3$, melting point of, 21:42956
$EuCl_3$—$PrCl_3$, phase diagrams, 23:27196
HCl—$NdCl_3$—$PrCl_3$—$SmCl_3$, separation of neodymium, praseodymium, and samarium from, by solvent extraction using bis(2-ethylhexyl) phosphate, distribution equilibria for, 24:11676
HCl—$PrCl_3$—$SmCl_3$, separation of praseodymium and samarium from, by solvent extraction using bis(2-ethylhexyl) phosphate, distribution equilibria for, 24:11676
$NdCl_3$—$PrCl_3$, separation of lanthanum from, by solvent extraction using D2EHPA, 23:15955
Pr—$PrCl_3$, cell potentials of, electrochemical studies on, 21:45088 (ORNL-4164, pp 95-100)

PRASEODYMIUM CHROMITES
phase studies from 20 to 900°C, 23:39057
spectra of, ir, 23:39057

PRASEODYMIUM FERRATES
praseodymium-141 Moessbauer spectra in, 25:36344

PRASEODYMIUM FLUORIDES
see also Cesium Praseodymium Fluorides
see also Potassium Praseodymium Fluorides
see also Sodium Praseodymium Fluorides
crystal lattice parameters of, 23:14412
crystal structure of, 22:31997
effects on radiation stability of beryllium fluoride glasses, 25:34621
evaporation and sublimation of, 21:45094 (UCRL-17804)
fluorination of PrF_3, 25:31889 (KFK-1325)
fluorine-19 NMR spectrum in single crystals of, temperature dependence of components of, (E), 22:46231
growth of single-crystal, equipment and methods for, 23:14412
magnetic susceptibility of, at 80 to 300°K, 22:23003 (IA-1128, pp 97-146)
melting point of, 23:14412
praseodymium-141 Moessbauer isomer shift in, 24:51854
praseodymium-141 Moessbauer spectra in, 25:36344
preparation of, 22:31997
preparation of PrF_4, 21:5834 (IA-1082, pp 77-202)
reactions of, with alkali metal fluorides, crystal structure of compounds formed by, 21:10311 (KFK-431)
spectra of, 22:31997
sublimation pressures of, 22:45799 (UCRL-18043, pp 155-82)
temperature measurements on, transition, 23:14412
thermodynamic properties of, at high temperatures, 22:14495
volatility in mixtures with beryllium fluoride—lithium and lithium fluoride at 1000°C, 23:352 (ORNL-4272, pp 1-33)
volatility in molten beryllium fluoride—lithium fluoride systems, 22:10324 (ORNL-TM-2058)
volatility in molten-salt fuel reprocessing, 22:27861 (ORNL-4204, pp 60-7)
BaF_2—LiF—PrF_3, analysis of, activation, 21:12296

PRASEODYMIUM FORMATES
preparation, properties, and structure of, 23:43287(R) (COO-1109-46)

PRASEODYMIUM HYDRIDES
crystal lattice parameters for, 22:17809
crystal structure at 4 to 300°K, 22:24380 (CONF-670502-, pp 36-47)
Curie—Weiss behavior at 4 to 300°K, 22:24380 (CONF-670502-, pp 36-47)
magnetic susceptibilities at 4 to 300°K, 22:24380 (CONF-670502-, pp 36-47)
magnetic susceptibility at 4 to 300°K in fields up to 21 kOe, (E), 22:17809
nuclear spin—lattice relaxation in, from 77 to 300°K, enhanced Korringa-like, (E/T), 23:42484
properties of, structural and thermodynamic, 21:57
proton NMR in, temperature-dependent Knight shifts in, (E), 21:18804
proton NMR studies of magnetic ordering and conduction band structure of, 23:23282

PRASEODYMIUM HYDROXIDES
crystallization and microstructure of colloidal solutions of, effects of aging and temperature on, 23:6095 (ORNL-TM-2387)
dissolution by ammonia, precipitate contamination calculation from time of, 21:23872
electron microscopy of microspheres of, 21:12285(R) (ORNL-4039)
electrophoretic mobility of sols of, correlation of streaming current with, 23:100 (ORNL-4272, pp 238-42)
praseodymium-141 Moessbauer isomer shift in, 24:51854
praseodymium-141 Moessbauer spectra in, 25:36344
precipitation with selenite from solutions using potassium hydroxide as precipitant, effects of pH on, 22:6375
preparation of, 22:22991 (CONF-670502-, pp 175-86)
preparation of crystals of, hydrothermal studies of equilibria with water in, 25:42934 (COO-1109-60)

PRASEODYMIUM HYDROXYCARBONATES
preparation of monocrystals of, hydrothermal studies of equilibria with water in, 25:42934 (COO-1109-60)

PRASEODYMIUM HYDROXYNITRATES
preparation of monocrystals of, hydrothermal studies of equilibria with water in, 25:42934 (COO-1109-60)

PRASEODYMIUM IODATES
precipitation from homogeneous solutions by double complexation and replacement, logarithmic distribution coefficients of fractional, 22:8054

PRASEODYMIUM IODIDES
spectra of, vapor-phase, 22:30530
thermodynamic properties of, at high temperatures, 23:105 (ORNL-4306, pp 120-30)

PRASEODYMIUM IONS
analytical wave functions for, approximate, (T), 22:7157
charge of, ion-exchange paper chromatographic study of, 24:2171
chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
crystal field in lanthanum trichloride, parameter variations, (T), 23:14885
crystal field levels in PrBi, neutron time-of-flight spectrometric study of, (E), 24:5208 (BNL-14131)
crystal-field shielding and antishielding factors for Pr^{3+} at electronic and nuclear sites, (T), 25:13983
distribution coefficients on Dowex chelating resin A-1, 23:2410
distribution on iron foils, method for measuring, 24:24993
effects on radiolysis of alkali metal nitrate crystals, 23:17482
electronic transitions of trivalent, in neodymium chloride, 23:1559
energy level calculations for Pr III and Pr IV, using Hartree—Fock method, 25:58709
energy level configuration interactions in Pr IV, 4 f^2, (T), 25:58798
energy level transitions in PrBi, neutron-scattering study of crystal-field, 24:24150
energy level transitions in yttrium oxides, calculation of spontaneous emission probabilities for, 22:36724
energy levels and magnetic moments, calculated, 22:39164 (NYO-3454-22, Paper 3)
energy levels in dilute acid solutions, spectral studies on electronic, 23:4611
energy levels in LaF_3, spontaneous emission probabilities and quantum efficiencies of $^1D_2$ and $^3P_0$, 22:38773
energy levels in trichloride crystals, lifetimes of, (E), 22:50244
energy levels of Pr IV 4f5d, calculation of, 24:23743
energy levels of Pr IV from spectrum measurements, 25:35847
energy levels of Pr IV, effects of intra-atomic magnetic interactions on, (T), 22:29227

- energy levels of, spin—spin and spin—other-orbit matrices for, (T), 25:35850
- energy transfer interactions with rare earth and yttrium ions in sodium tungstates, nonradiative, 21:42929
- entropy of, calculation of partial molal, 23:10996(R) (COO-1716-6)
- fluorescence spectra in yttrium oxide sulfide crystals, 23:10702(T) (UCRL-Trans-10259)
- g factors for Pr IV 4f5d, 24:23743
- luminescence in cesium uranyl chlorides at 77 and 300°K, 21:21961
- magnetic moments of, 22:39165 (NYO-3454-22, Paper 4)
- magnetic susceptibility in cerium oxides at 85 to 300°K, 22:34801
- magnetic susceptibility in hexagonal crystal field, Hamiltonian for, (T), 23:8658 (CONF-681020-(Vol.1), pp 335-46)
- properties of Pr^{3+}, configuration-interaction corrections to Hartree—Fock calculations of, 25:43116
- radiation effects on spectra of lanthanum fluoride doped with, gamma, 24:35541
- radiation effects on thermoluminescence of, in calcium fluoride, at 80 to 450°K, x, 21:15917 (NP-16611)
- radii in fluorides and oxides, 24:188
- spectra corresponding to transitions of pairs of, in praseodymium chloride crystals, (E/T), 22:7358
- spectra in neodymium trichloride, satellite structure of electronic transitions in, 23:12976
- spectra of trivalent, ultraviolet, 23:40633
- spin—orbit and spin—other-orbit interactions in Pr^{3+} $(4f^2)$, values for, 24:17632
- spin—spin interactions in Pr^{3+}, numerical values for, 23:44171
- wave functions for Pr^{3+}, calculation by analytical-expansion self-consistent-field method, 23:46251
- wave functions for SL terms of Pr IV, energy dependence of radial, 23:36494
- wave functions for, accurate numerical Hartree—Fock self-consistent field, 25:19478

PRASEODYMIUM ISOTOPES
- decay schemes for, tables on, 23:33331 (BNL-13595)
- energy levels of odd-A, intermediate-coupling model calculation of E2 transition rates for, (T), 25:46087
- gamma spectra from fission-product, (E), 24:24558
- gamma—x-ray coincidence spectra of, from californium-252 spontaneous fission, (E), 24:24588
- masses of stable, measurements of, (E), 22:48570
- nuclear charge distribution of, effect of proton addition on, (E/T), 21:44620
- production of high-purity radioactive, 23:26261 (AERE-M-2135)
- production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
- proton fission at 660 MeV, formation cross sections and mass distribution of isotopes from, 24:3893

PRASEODYMIUM ISOTOPES Pr-133
- decay of, half-life and γ spectra for, (E), 25:28387

PRASEODYMIUM ISOTOPES Pr-134
- beta and electron-capture decay scheme, (E), 25:28387

PRASEODYMIUM ISOTOPES Pr-135
- beta and electron-capture decay scheme, (E), 25:28387
- beta decay of, half-life for, (E), 23:1879 (ORNL-4306, pp 1-21)
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)

PRASEODYMIUM ISOTOPES Pr-136
- beta and electron-capture decay of, (E), 22:5815 (JINR-P6-3468)
- beta and electron-capture decay of, γ spectra and half-life for, (E), 23:11029
- beta and electron-capture decay scheme of, β and γ spectra and log-ft values for, (E), 22:37344 (JINR-P6-3823)
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, 21:2707 (ORNL-3994, pp 1-26)
- decay of, coincidence spectra from, (E), 24:49861 (ORNL-4581, pp 1-27)
- energy levels from decay of neodymium-136, spin—parity assignments for, 23:11029
- energy levels from neodymium-136 decay, spin-parity assignments and transition multipolarities for, (E), 22:37344 (JINR-P6-3823)

PRASEODYMIUM ISOTOPES Pr-137
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, 21:2707 (ORNL-3994, pp 1-26)
- decay of, cerium-137 energy levels from, (E), 21:13875

PRASEODYMIUM ISOTOPES Pr-138
- beta and electron-capture decay of ground-state and isomeric, half-lives and γ spectra for, (E), 25:1756
- beta and electron-capture decay of ground-state and isomeric, γ spectra from, (E), 25:48075 (N-71-15837)
- beta and electron-capture decay of ground-state and isomeric, γ spectra from, (E), 25:28414
- beta and electron-capture decay of, branching ratios, log-ft values, and conversion-electron and gamma spectra from, (E), 25:36725 (JINR-P6-5674)
- beta and electron-capture decay of, γ spectra for, (E), 22:3695 (JINR-P6-3541)
- beta and electron-capture decay scheme of isomeric, conversion-electron and γ spectra and log-ft values for, (E), 22:39666
- beta and electron-capture decay scheme of, γ spectra and log-ft values for, (E), 22:18273
- beta decay scheme of, γ spectra for, (E), 22:27175
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- energy levels from neodymium-138 decay, (E), 25:48075 (N-71-15837)
- energy levels from neodymium-138 decay, (E), 22:3695 (JINR-P6-3541)
- energy levels from neodymium-138 decay, (E), 25:1756
- energy levels from neodymium-138 electron-capture decay, spin-parity assignments for, (E), 25:36725 (JINR-P6-5674)
- energy-level transitions from neodymium-138 electron-capture decay, branching ratios, internal conversion coefficients, and multipolarities for, (E), 25:36725 (JINR-P6-5674)
- nuclear spin and parity of isomeric, (E), 22:39666
- properties of, from proton fission of uranium at 450 MeV, recoil, (E), 21:12439(R) (COO-1167-1)

PRASEODYMIUM ISOTOPES Pr-139
- beta and electron-capture decay of, γ spectra from, (E), 22:1667
- beta and electron-capture decay scheme of, γ spectra for, (E), 22:5841
- beta decay of, gamma spectra in, (E), 21:17382
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, γ spectra following, (E), 24:22172
- decay scheme of, gamma spectra for, (E), 21:29975
- energy levels from beta decay of neodymium-139, (E), 23:49432
- energy levels from decay of isomeric neodymium-139, three-quasiparticle multiplet, (E/T), 23:34788
- energy levels from decay of neodymium-139, (E), 23:5937
- energy levels from isomeric neodymium-139 beta and electron-capture decays, scheme for, (E), 24:40603 (COO-1779-15)
- energy levels from neodymium-139 beta and electron-capture decay, spin—parity assignments for, (E), 25:17922
- energy levels from neodymium-139 beta and electron-capture decay, complex shell-model, (E/T), 25:28299 (CERN-70-30(Vol.1), pp 435-46)
- energy levels from neodymium-139 beta and electron-capture decay, spin—parity assignments for, (E), 25:36724 (JINR-P6-5673)
- energy levels from neodymium-139 decay, three-quasiparticle multiplets in, 24:43412
- energy levels from neodymium-139g and -139m decay, (E), 24:22173
- energy levels of, shell-model calculation of negative-parity, (T), 25:31366
- energy-level transitions from neodymium-139 beta and electron-capture decay, conversion coefficients and multipolarities for, (E), 25:36724 (JINR-P6-5673)
- energy-level transitions from neodymium-139 decay, (E), 21:29969(R) (UCRL-17299)
- half-life, 22:50642
- properties of, from proton fission of uranium at 450 MeV, recoil, (E), 21:12439(R) (COO-1167-1)

PRASEODYMIUM ISOTOPES Pr-140
- beta and electron-capture decay of, analysis of branching coefficients in, (E/T), 24:33130
- beta and electron-capture decay of, γ spectra from, (E), 24:49901
- beta and electron-capture decay of, γ spectra from, (E), 25:25755
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, conversion-electron and γ spectra from, (E), 21:38298 (JINR-P6-3348)
- energy levels from cerium-140 (p,γ) reactions, matrix elements for isobaric analog, 23:25928
- separation from neodymium-140 by complexing with DTPA or EDTA and cation exchange, 23:31407
- separation from neodymium-140 using DTPA and ion exchangers, continuous method for, 23:31407

PRASEODYMIUM ISOTOPES Pr-141
- alpha fission at 167 MeV, angular distributions and particle track lengths for, (E), 25:56806
- alpha inelastic scattering at 45 MeV, angular distributions for, (E), 25:34124
- beta spectra for, endpoint energy of, (E), 22:24835(R) (BARC-305)
- carbon-12 reactions (C-12,3n) and (C-12,5n) at 81 MeV, gamma spectra from, (E), 25:36726 (JINR-P6-5681)
- carbon-12 reactions with, cross-section limit for fission isomer excitation in, 25:28399
- determination in irradiated fast-reactor fuel, 21:36073(R) (ANL-7350)
- determination in irradiated fission product—uranium mixture, activation, 21:45005 (ANL-7325, pp 201-3)
- determination in reactor fuels by neutron activation methods, 21:25935(R) (ANL-7225)
- deuteron differential elastic scattering cross sections at 13.6 MeV, (E), 23:19295
- deuteron inelastic scattering at 28.2 MeV, deuteron spectra from, (E), 25:34124
- deuteron reactions (d,He-3) at 29 MeV, DWBA analysis of angular distributions and spectra from, (E), 25:50761
- deuteron reactions (d,He-3) with, angular distributions for, (E), 25:12558
- deuteron reactions (d,p) with, cross section and Q-value for, (E), 22:50612
- deuteron reactions (d,p), (d,2n), and (d,3n) at 10 to 50 MeV, cross sections for, (E), 21:46721 (KFK-519)
- deuteron reactions (d,p), (d,2n), and (d,3n) up to 50 MeV, excitation functions for, (E), 23:1909
- electron quasielastic scattering with proton emission, proton spectra and angular distributions for, (E), 24:20399
- energy level at 141 keV, nuclear magnetic moment of, (E), 25:34123
- energy level at 145 keV, lifetime and E2 transition probability for, (E), 22:14038
- energy level at 7.632 MeV from γ resonance scattering, parity assignment by polarization measurements, (E), 23:19248 (IA-1180)
- energy level at 7.632 MeV from γ resonance scattering, spin-parity assignment for, (E), 22:24881
- energy level structure for, comparison of experimental results and shell model predictions for, (E/T), 23:40111
- energy level transitions in, γ single and coincidence spectra for, (E), 22:50656
- energy levels from (d,He-3) and (He-3,d) reactions, spectroscopic factors for, (E), 25:34115
- energy levels from (γ,p) reactions, isobaric analog, (E), 24:20400
- energy levels from alpha inelastic scattering, (E), 25:34124
- energy levels from beta decay of cerium-141, (E), 22:7674
- energy levels from beta decay of neodymium-141, (E), 23:49432
- energy levels from cerium-140 (He-3,d) reactions, spectroscopic factors for, (E), 24:20403
- energy levels from cerium-140 (He-3,d) reactions, (E), 25:12558
- energy levels from cerium-140 (He-3,d) reactions, shell-model calculations using pseudo spin—orbit coupling scheme of spectroscopic factors and spin—parity assignments for, (E/T), 25:50761
- energy levels from cerium-140 (He-3,d) reactions, (E), 23:10961(R) (NP-17704)
- energy levels from cerium-140 (He-3,d) reactions, spectroscopic factors for, (E), 24:20383 (JAERI-1184, pp 88-91)
- energy levels from cerium-140 proton elastic scattering, spin-parity assignments for isobaric analog, (E), 22:42069
- energy levels from cerium-140 proton elastic scattering, spin-parity assignments for isobaric analog, (E), 22:42039
- energy levels from cerium-141 decay, (E), 22:32566 (COO-1112-167)
- energy levels from decay of isomeric neodymium-141, spins of, (E), 22:42026
- energy levels from fast neutron inelastic scattering, (E), 22:27218
- energy levels from gamma resonance scattering, (E), 22:24854 (IA-1128, pp 12-20)
- energy levels from neodymium-141 beta and electron-capture decay, spin assignments for, (E), 25:17922
- energy levels from neodymium-141 decay, spins and parities of, (E), 22:5850
- energy levels from neodymium-142 (d,He-3) reactions and decay of cerium-141, spin—parity assignments for, (E), 23:25929
- energy levels from neutron elastic scattering, spin—parity assignments for, (E), 23:15481
- energy levels from neutron inelastic scattering, (E), 22:11948(R) (NP-17216)
- energy levels from neutron inelastic scattering, spin assignments for, (E), 22:50643
- energy levels from neutron inelastic scattering, spin assignments for, (E), 25:5751
- energy levels from neutron inelastic scattering, spin—parity assignments for, 23:13301
- energy levels from neutron inelastic scattering, spin-parity assignments for, (E), 24:26664
- energy levels from photoexcitation, radiative widths for isobaric analog, (E), 25:28362
- energy levels from photon inelastic scattering, spin—parity assignments for, (E), 23:31022
- energy levels from photon scattering, (E), 24:5431
- energy levels from proton elastic scattering by cerium-140, total angular momentum of, (E), 21:31782
- energy levels from proton inelastic scattering by cerium-140, isobaric analog, (E), 22:11949(R) (ORO-2972-47)
- energy levels from proton inelastic scattering by cerium-140, widths for isobaric analog, (E), 23:25924
- energy levels from proton resonances in cerium-140, spins, partial widths, and spectroscopic factors for decay of isobaric analog, (T), 25:3685
- energy levels from quasi-particle Tamm—Dancoff approximation, spin—parity assignments, single-particle energies, eigenvectors, electromagnetic moments, and spectroscopic factors for, (T), 25:12616
- energy levels of, analysis of nonrandom distributions of neutron resonance, (T), 25:28421
- energy levels of, shell-model calculation using surface delta interaction, (T), 24:38224
- energy levels of, spin-parity assignments and transition multipolarities for, (E), 22:27107
- energy levels of, Tamm—Dancoff calculation for, (T), 24:52615
- energy-level densities at 2 to 7.5 MeV from neutron inelastic scattering, shell effect on energy dependence of, (E), 23:34754
- energy-level excitation by neutron capture gamma rays, (E), 25:15002
- energy-level lifetimes from delayed coincidence measurements, (E), 21:17355 (ZfK-Pha-20)
- energy-level structure of photo-excited, spin and parity for, (E), 25:15139
- energy-level transition from isobaric analog state, E1, (E), 22:42092
- energy-level transitions from fast neutron inelastic scattering, (E), 22:26932(R) (NP-17434)
- energy-level transitions from neodymium-141 decay, (E), 22:53095 (BMwF-FBK-68-11)
- energy-level transitions from quasi-particle Tamm—Dancoff approximation, rates for M1 and E2, (T), 25:12616
- energy-level transitions in, multipolarity of 145.4-keV, (E), 21:33954(R) (AECL-2687)
- gamma resonance scattering at 6.12 MeV, spectra for, (E), 22:24854 (IA-1128, pp 12-20)
- gamma resonance scattering using γ beams from neutron capture by iron, polarization measurements on, (E), 23:19248 (IA-1180)
- gamma resonance scattering using thermal neutron capture by iron, (E), 22:24881
- helium-3 reactions (He-3,d) at 44.2 MeV, DWBA analysis of angular distributions and spectra from, (E), 25:50761
- helium-3 reactions (He-3,d) with, angular distributions for, (E), 25:12558
- ion elastic scattering in wide energy range, phase shift analysis of angular distributions for, (E), 25:56740 (JINR-P7-5884)
- mass of, (E), 24:38265

- meson (μ^-) capture by, magnetic hyperfine structure of x rays from, (T), 25:7856
- meson (π^-) capture by, x-ray spectra from, (E), 21:3657
- meson (π^-) reactions with, energies and yields of γ rays from, (E), 24:1781
- Moessbauer isomer shifts in praseodymium compounds, 24:51854
- Moessbauer spectrum in praseodymium compounds, isomer shifts and hyperfine splitting in, 25:36344
- neon-22 reactions (Ne-22,xpxn) at 170 MeV, cross sections for, (E), 24:38286
- neutron absorption and scattering cross sections for, thermal, (E), 22:18281
- neutron activation cross sections for, thermal, 21:35904
- neutron capture at 14 MeV, activation cross section for, (E), 22:9889
- neutron capture at 2.9 MeV, cross section for, (E), 25:46070
- neutron capture at 3 MeV, cross section for, (E), 24:38154
- neutron capture at 30 keV, γ transition strengths in, (E), 22:27100
- neutron capture at resonance energies, fluctuations of partial radiative widths in, (E/T), 23:49396 (UJV-2228-R)
- neutron capture by, average circular γ polarization in thermal, (E), 25:12601
- neutron capture by, fluctuation of partial widths from resonance, (E), 24:47616
- neutron capture by, γ spectra for resonance, (E), 23:40073
- neutron capture by, γ spectra for thermal, (E), 22:50612
- neutron capture by, γ spectra from resonance, (E), 22:22580 (JINR-P3-3696)
- neutron capture by, γ spectra from resonance, (E), 22:29988(T) (ANL-Trans-605)
- neutron capture by, production cross section for isomeric praseodymium-142 from thermal, (E), 21:21538
- neutron capture by, spectrum-averaged cross sections for pile, (E/T), 25:36720 (CONF-710301-4)
- neutron capture cross section at 0.005 to 3 MeV, (E), 22:32596
- neutron capture cross section at 4 to 2000 eV, (E), 23:37160
- neutron capture cross section of, effects of energy on, 21:25935(R) (ANL-7225)
- neutron capture cross sections at 13.4 to 15.0 MeV, (E), 21:13839
- neutron capture cross sections at 5 keV to 3 MeV, 21:36073(R) (ANL-7350)
- neutron capture cross sections for, at 4 keV to 3 MeV, 21:5483 (ANL-7125, pp 237-40)
- neutron capture in oriented, anisotropies of distributions of gamma radiation from thermal, (E), 25:17947
- neutron capture integral in fast region, (E), 25:5656
- neutron differential elastic and inelastic scattering cross sections at 0.2 to 2.5 MeV, angular distributions for, (E), 22:11948(R) (NP-17216)
- neutron differential elastic and inelastic scattering cross sections at 0.2 to 2.5 MeV, (E), 22:27218
- neutron differential elastic scattering cross section at 8 MeV, angular distribution for, (E), 22:20564 (CONF-680307-13)
- neutron elastic and inelastic scattering at 0.2 to 2.6 MeV, angular distributions and excitation functions for, (E), 23:13301
- neutron fission yield of, determination of fast, 22:27477 (ANL-7375, pp 178-9)
- neutron inelastic scattering at 0.2 to 2.2 MeV, γ production cross sections for, (E), 24:26664
- neutron inelastic scattering at 0.5 to 2.3 MeV, γ spectra for, (E), 23:15481
- neutron inelastic scattering at 0.5 to 2.3 MeV, γ spectra from, (E), 22:26932(R) (NP-17434)
- neutron inelastic scattering at 1.2 to 2.2 MeV, γ spectra from, (E), 25:5751
- neutron inelastic scattering at 2.9 MeV, γ spectra from, (E), 22:50643
- neutron reactions (n,2n) at 12.6 to 19.6 MeV, excitation function for, (E), 22:42006
- neutron reactions (n,2n) at 13 to 20 MeV, cross sections for, (E), 22:37340(R) (EANDC(E)-89(U))
- neutron reactions (n,2n) at 14.5 MeV, activation cross sections for, 21:10254(R) (TEES-2671-5)
- neutron reactions (n,2n) at 14.5 MeV, cross sections for, (E), 21:30011
- neutron reactions (n,3n) at 18.2 to 19.5 MeV, statistical analysis of cross sections for, (E/T), 22:50642
- neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
- neutron reactions (n,p) and (n,2n) at 14 MeV, activation cross sections for, (E), 22:9889
- neutron reactions (n,p) and (n,t) at 14.8 MeV, cross sections for, (E), 22:48559
- neutron reactions (n,p) at 14 MeV, cross section for, (E), 22:35261
- neutron resonances in, level spacing, spin, and total radiative width for, (E), 23:37160
- neutron resonances in, spins and reduced widths for, (E), 24:1843
- neutron strength function and scattering radius at 0 to 6 keV, (E), 22:18285
- neutron strength function and scattering radius at 0 to 6000 eV, (E), 22:37340(R) (EANDC(E)-89(U))
- neutron strength functions and potential scattering length for, (E), 23:13239
- neutron strength functions and scattering radius of, (E), 23:13226 (CEA-R-3609)
- neutron total cross section and resonance parameters at 85 to 5724 eV, (E), 23:13226 (CEA-R-3609)
- neutron total cross section and resonance parameters up to 6 keV, (E), 23:13239
- neutron total cross section at 0.001 to 1.0 eV, (E), 22:18281
- neutron total cross section at 1 to 18 MeV, (E), 25:59811
- neutron total cross section at 2.5 to 4.5 MeV, fluctuations in, (E), 22:20537
- neutron total cross section at 3.2 to 5.2 MeV, (E), 23:4033
- nuclear electric and magnetic moments of, (E), 25:1739(R) (NYO-73-293)
- nuclear electric and magnetic moments of, analysis of hfs of muonic x-ray spectra for determining finite distribution of, 23:49422
- nuclear electric and magnetic moments of, determination from μ-mesic hyperfine structure, 24:52603
- nuclear isomer shift in, (E), 25:34123
- nuclear level density parameters from neutron inelastic scattering at 5, 6, and 7 MeV, (E), 22:27104
- nuclear magnetic resonance in paramagnetic states of rare-earth intermetallic compounds, 21:37550
- nuclear magnetic resonance in praseodymium metal and compounds, 25:5226
- nuclear magnetic resonance in praseodymium sulfate single crystals, 22:11511
- nuclear quadrupole moment, charge distribution, and staggering and magnetic-hyperfine-splitting parameters for, from mesic (μ^-) x rays, (E), 25:33074
- photon inelastic scattering by, spectra and angular distributions for, (E), 23:31022
- photon reactions (γ,2n) at 20 MeV, γ spectra and yields of, (E), 21:35467
- photon reactions (γ,n) at 22 MeV, neutron angular distributions from, (E), 22:44656
- photon reactions (γ,n) at 22 to 28 MeV, fine structure in neutron spectrum from, (E), 24:47644
- photon reactions (γ,n) at 7.72 to 10.83 MeV, cross sections for monoenergetic, (E), 21:46711
- photon reactions (γ,n) at 9 to 17 MeV, cross sections for, (E), 22:16030
- photon reactions (γ,n) at threshold to 17.5 MeV, vibrational splitting of giant dipole resonance in, (E), 22:27222
- photon reactions (γ,p) with isobaric analog excitation, proton spectra from, (E), 25:28362
- photon reactions (γ,p) with, proton spectra and angular distributions from virtual, (E), 24:20399
- photon reactions at 30 to 70 MeV, yields from, (E), 24:20354
- photon reactions with, calculation of the giant resonance considering the residual interaction, (T), 24:11005
- photon scattering at 6 to 8 MeV, spectra from, (E), 24:5431
- proton decay from isobaric analog states, (E), 22:20632
- proton reactions (γ,p) with isobaric analog excitation, proton spectra and angular distributions for, (E), 24:20400
- proton reactions (p,2n) at 10 to 15 MeV, cross section and threshold energy for, (E), 25:12607
- proton reactions (p,2n) at 6 to 15 MeV, cross sections for, (E), 21:33963(R) (NP-16498)
- proton reactions (p,d) with, angular distributions for, (E), 25:9978(R) (ORO-3398-26)
- proton reactions (p,γ) with, resonance in, (E), 25:43950
- proton reactions (p,n) at 3 to 10 MeV, isobaric analog resonances in, (E), 21:2699
- proton reactions (p,n) at 6 to 15 MeV, cross sections for, (E), 21:33963(R) (NP-16498)
- proton reactions at 5 to 11 MeV, optical-model analysis of, (E/T), 21:44659 (CEA-R-3091)
- separation from fission products and uranium, ion exchange and precipitation methods for, 21:45005 (ANL-7325, pp 201-3)
- x-ray spectra of μ-mesic, (E), 25:33074
- x-ray spectra of μ-mesic, (E), 21:23534(R) (ANL-7246)
- yield of, activation determination of fast-fission, 21:4433 (ANL-7125, pp 241-3)

PRASEODYMIUM ISOTOPES Pr-142

- beta decay scheme of, γ spectra for, (E), 22:32566 (COO-1112-167)
- beta spectrum of, shape of first-forbidden, (E/T), 21:29914 (NP-16764)
- concentration by neutron capture reaction of praseodymium-loaded zeolite, 25:202 (CONF-700403-(Vol.1), pp 448-59)
- concentration of reactor-produced, using extraction of 4,4,4-trifluoro-1-(2-thienyl)-1,3 butanedione complex with praseodymium, 21:24046
- determination in reactor effluent and river water by group separation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
- energy level density from lanthanum-139 (α,n) reactions, (E), 21:29943
- energy levels from (d,p) and (n,γ) reactions, spectroscopic data analysis for, (T), 21:42683(R) (UCB-34-P-141-8)
- energy levels from praseodymium-141 (d,p) and (n,γ) reactions, spin—parity assignments for, (E), 22:50612
- energy levels from praseodymium-141 (n,γ) reactions, fluctuation of partial widths of, (E), 24:47616
- energy levels from praseodymium-141 neutron capture, (E), 23:40073
- energy levels from praseodymium-141 resonance neutron capture, fluctuations of partial radiative widths for, (E/T), 23:49396 (UJV-2228-R)
- energy levels from praseodymium-141 resonance neutron capture, (E), 22:29988(T) (ANL-Trans-605)
- energy levels from thermal neutron capture by praseodymium-141, spins of, (E), 25:17947
- energy levels from thermal neutron capture, spin for compound, (E), 25:12601
- energy levels of, spins and moments of isomeric, (E), 24:43217
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- half life of isomeric, from thermal neutron capture by praseodymium-141, (E), 21:21538
- half-life for, (E), 23:1909
- half-life of, chemical effects on, (E), 22:29983 (MIT-905-108, pp 1-32)
- isomeric transition in, half-life and multipolarity of, (E), 22:11944(R) (AECL-2780)
- nuclear orientation in praseodymium metal, fron anisotropy of gamma emission, 25:30662 (COO-1569-76)
- properties of, from proton fission of uranium at 450 MeV, recoil, (E), 21:12439(R) (COO-1167-1)
- separation from neutron-irradiated praseodymium, ion exchange, 24:16646

PRASEODYMIUM ISOTOPES Pr-143

- beta decay of, internal bremsstrahlung spectra for non-unique first forbidden, (E), 23:44898
- beta decay of, internal bremsstrahlung spectrum from, (E), 24:5430
- determination in mixtures, sensitivity of anthracene scintillation beta spectrometer for, 24:27388
- diffusion coefficient measurement in DIDO 1A, analysis of, 22:37525 (AERE-R-3912)
- distribution in skin, in relation to other radioisotopes, comparative analysis of, 24:50692
- energy level at 57 keV, g-factor measurement using perturbed angular correlations, (E), 22:32640
- energy level at 57 keV, g-factor measurement using integral reversed field method of perturbed angular correlation, (E), 22:46781
- energy levels at 351 keV from cerium-143 decay, spin-parity assignment for, (E), 22:39679
- energy levels at 57 and 351 keV, lifetimes of, (E), 22:24835(R) (BARC-305)
- energy levels from beta decay of cerium-143, (E), 22:7720
- energy levels from cerium-143 beta decay, (E), 25:50766
- energy levels from cerium-143 beta decay, spin—parity assignments for, (E), 25:43921
- energy levels from cerium-143 decay, lifetime measurements and model analysis of 57- and 351-keV, (E/T), 25:50785
- energy levels from cerium-143 decay, spin-parity assignments for, (E), 24:45794
- energy levels from unified-model in intermediate coupling calculations, (T), 22:1684
- energy levels of, (E), 21:12011 (AECL-2639)
- energy levels of, spin-parity assignments and transition multipolarities for, (E), 22:27107
- energy levels of, Tamm—Dancoff calculation for, (T), 24:52615
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- energy-level transitions from cerium-143 beta decay, internal conversion coefficients and multipolarities for, (E), 25:43921
- energy-level transitions from cerium-143 decay, (E), 21:27586
- energy-level transitions from cerium-143 decay, K-conversion coefficients for, (E), 23:11005
- energy-level transitions in, unified-model calculation of penetration factors for l-forbidden M1, (T), 24:38226
- energy-level transitions, (E), 21:7721(R) (AECL-2611)
- half-life, (E), 25:20339
- metabolism in dogs, rats, and other animals, 24:36713(T) (ANL-Trans-832)
- preparation from neutron-irradiated cerium dioxide, 25:46534
- production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)
- production of, ORNL short-lived fission products program for, 25:46531 (CONF-700646-, pp 34-43)
- properties of, from proton fission of uranium at 450 MeV, recoil, (E), 21:12439(R) (COO-1167-1)
- separation by ion exchange in alcohol—water solutions containing aluminum or lithium nitrates or nitric acid, 22:35905
- separation from uranium-235 fission products in lactic acid by ion exchange, method for, 24:16644
- yields from neutron fission of plutonium-239 and plutonium-241, 25:15689

PRASEODYMIUM ISOTOPES Pr-144

- activity measurements for fuel burnup determination, 24:48863 (SGAE-PH-98/1970)
- activity of, in samples of seawater, 21:14590
- beta and gamma decay energies for, data evaluation for average, 23:5746 (AEEW-M-790)
- beta decay of, β—γ angular and circular polarization correlations in, (E), 22:53105
- beta decay of, β—γ directional correlations for, (E), 23:40048
- beta decay of, endpoint energies, Kurie plots, shape factors, and strength of pseudoscalar interaction in, (E/T), 25:46060
- beta decay of, gamma spectra from, (E), 21:46723 (ORNL-4164, pp 1-23)
- beta decay of, γ singles and coincidence spectra for, (E), 23:19283
- beta decay of, γ spectra for, (E), 23:19260
- beta decay of, γ—γ angular correlations and coincidence spectra for, (E), 23:40068
- beta decay of, γ-γ angular and linear polarization correlations in, (E), 22:48509(R) (BMwF-FBK-68-22)
- beta decay of, L-subshell conversion electron spectra for, (E), 23:11021
- beta decay of, longitudinal polarization and pseudoscalar contribution in, (T), 23:31074
- beta decay scheme, (E), 22:9891
- beta emission by, effects of, on uptake and retention of calcium-45, molybdenum-99 and strontium-89 in cattle, sheep, and swine, 22:40831 (ORO-657, pp 46-64)
- beta energy yield from, use of Geiger—Mueller detectors for determining, 22:6592
- beta spectra, (E), 21:12048
- beta transition in, search for pseudoscalar interaction in, (E), 22:3708
- beta transitions in, first-forbidden, (T), 22:27232
- beta—gamma directional correlations for, inner bremsstrahlung correction to first-forbidden, (E), 22:48533
- carcinogenicity of, in rats, synergistic effects of dimethylaminoazobenzene on, 21:14706 (BNWL-280, pp 17-18)

- chemical reactions of, produced in beta decay of cerium-144 in cerium—DTPA complex, 23:26314
- chemical state of, produced by beta decay of cerium-144 complexes with EDTA and DTPA, 24:44057
- content and distribution in Rongelap Atoll soils following nuclear explosion on Bikini Atoll, 23:9540 (UWFL-92)
- content in animal tissue, methods for determination of, 21:34239
- content in fallout from atmospheric nuclear tests, automated measurement of, 21:1459(R) (TID-23369)
- content in pasture grasses in Hanford area during 1965, 21:34649 (BNWL-316(App.))
- content in permanent snow in Soviet Union, effect of nuclear explosions on, 21:19773
- content in Polish soils from nuclear weapons testing, 21:36106 (CLOR-63/D)
- content in seas, 21:8810(T) (AEC-tr-6641, pp 128-44)
- content in soil from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
- content in surface soils near Leningrad, USSR, 1954 to 1965, 25:15757(T) (AEC-tr-7214, pp 21-6)
- content of atmosphere over Soviet Union during 1965 and 1966, 25:16065(T) (AEC-tr-7214, pp 70-81)
- content of biological materials, computer programs for estimation of, 25:21705
- content of molluscs, plankton, and red algae in Japan, 23:2828
- content of seawater during 1962 to 1964, determination by gamma spectrometry, 23:33692 (CEA-R-3698)
- content of, in soils, effects of forest canopy trees on, 21:10722(R) (COO-414-4)
- decay scheme and gamma spectra, (E), 24:40643
- decay scheme of 7.2-min. isomer of, (E), 24:40643
- deposition on earth's surface in Leningrad District, 1954 to 1965, 22:21194 (A-AC-82/G/L-1171)
- detection in radioecology studies, use of Cherenkov counting for, 25:2565
- detection of, in marine alga Sargassum, 21:10737
- determination by β counting using G-M and proportional detectors, efficiency curves for, 25:4029 (CISE-N-119)
- determination in biological materials by gamma scintillation spectrometry, 25:11044
- determination in fission product solution by gamma spectrometry, 22:25455 (CEA-N-616, pp 295-368)
- determination in irradiated MTR fuel by gamma spectrometry as measure of burnup, 25:46434 (FMRB-36/71)
- determination of, in plant samples, solubilization method for use in, 21:14150 (UCLA-12-613)
- diffusion in bituminous materials and cements, 23:40967 (CEA-R-3751)
- diffusion in pneumatically impacted uranium dioxide—plutonium dioxide, 21:33014
- distribution in plutonia—urania pellets of, effects of stoichiometry on, 21:46027(R) (NUMEC-3432-35)
- distribution in tissues of dogs, guinea pigs, rabbits and rats, 22:8473
- distribution in uranium dioxide fuels at high burnups, determination by gamma scanning, 25:8951(R) (GEAP-10217)
- effects on mammary glands of cattle following infusion in udders, effects of dose on β and γ, 24:17148
- effects on skin of mice, combined effects of dimethylbenzanthracene on carcinogenic β and γ, 23:10058
- energy levels from cerium-144 beta decay, spin—parity assignments and lifetimes of, (E), 25:5749
- energy levels from cerium-144 decay, spin—parity assignments for, (E), 25:5739
- energy levels from cerium-144 decay, spin—parity assignments for, (E), 23:40068
- energy levels from decay of cerium-144, spin—parity assignments for, (E), 23:19283
- energy levels from photoexcitation, radiative widths for isobaric analog, (E), 25:28362
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- energy-level spins and transition multipolarities from γ—γ directional correlations, (E), 21:15554 (CONF-660221-, pp 194-8)
- energy-level transitions from cerium-144 decay, (E), 21:15591
- energy-level transitions from cerium-144 decay, intensities, multipolarities, and conversion coefficients for, (E), 25:5739
- energy-level transitions from cerium-144 decay, internal conversion coefficients and multipole mixing ratios for, 23:40068
- energy-level transitions in, K conversion coefficient for, (E), 25:59790
- energy-level transitions in, L-subshell intensity ratios of M1, (E), 21:17318(R) (AECL-2659)
- energy-level transitions in, L-subshell intensity ratios for M1, (E), 21:33954(R) (AECL-2687)
- fallout at Leningrad from 1954 to 1965, 22:12453
- gamma emission by, effects of, on uptake and retention of calcium-45, molybdenum-99, and strontium-89 in cattle, sheep, and swine, 22:40831 (ORO-657, pp 46-64)
- halflife of, separated from cerium-144 by ring-oven method, 23:40831
- inhalation by man following exposure to fresh fallout, dose to respiratory tract from, 22:33821
- isomeric transition in, half-life for, (E), 23:30964 (MIT-905-133, pp 1-36)
- metabolism of, in tissues and shells of fresh-water mussels, 21:16298
- nuclear ground-state spin of, (E), 24:1828
- nuclear spin from γ-γ angular correlation measurements, (E), 21:27619
- precipitation by barium chromate, effects of EDTA on, 23:28990
- preparation of, equations and generator method for, 21:8407
- production of carrier-free, by milking from cerium-144 using manganese oxide column, 25:41883
- reactions of recoil, from cerium-144 beta decay in cerium complexes with EDTA, 23:19812
- removal from dogs following inhalation of labeled oxides, use of DTPA for, 23:31735
- retention in lungs of dogs, pathological effects of, 21:34650(R) (BNWL-322)
- separation from cerium-144 by complexing with DTPA or EDTA and cation exchange, 23:31407
- separation from cerium-144, ring-oven method for, 23:40831
- separation from light rare earths by electrophoretic ion focusing, 23:37877
- separation from plutonium dioxide—uranium dioxide fuels, solvent extraction method for, 22:27845 (CEA-N-816, pp 150-276)
- separation from radioactive wastes from fuel reprocessing, 22:40172 (KR-126, pp 267-78)
- sorption by clays, diatomaceous earths, and synthetic aluminum oxides and silicates, 23:338 (CEA-R-3554)
- sorption of, by manganese oxides in water works filter bed materials, 21:16006
- toxic effects of, on sheep following intravenous administration, 23:35625
- toxicity in sheep, 22:40831 (ORO-657, pp 46-64)
- uptake by algae, mollusca, and plankton of Black Sea during 1958 to 1960, 25:39854(T) (AEC-tr-7232, pp 112-34)
- uptake of, by vegetables, effects of foliar or root application and soil conditions on, 21:12746 (CONF-651008-, pp 94-125)
- cerium-144—praseodymium-144, determination in water by beta counting using Cherenkov effect and liquid scintillation counters, 24:2142
- cerium-144—praseodymium-144, separation simultaneously with yttrium-90 from long-lived uranium fission products, ring-oven method for, 24:46315

PRASEODYMIUM ISOTOPES Pr-145

- energy levels from beta decay of cerium-145, (E), 22:11974
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- gamma spectra, (E), 21:25555
- production by neutron fission of plutonium-239 and plutonium-241, 25:15690
- properties of, from proton fission of uranium at 450 MeV, recoil, (E), 21:12439(R) (COO-1167-1)

PRASEODYMIUM ISOTOPES Pr-146

- beta decay of, β—γ and γ—γ coincidence spectra for, (E), 22:50645
- energy levels and beta decay scheme of, evaluated data on, (E), 22:22596
- energy levels of, nuclear spin and parity of ground state, (E), 22:50645
- energy-level transitions from cerium-146 decay, conversion coefficients for, (E), 22:44728
- separation from fission products of uranium by electrophoretic ion focusing, 23:37876
- yield in thermal neutron fission of uranium-235, (E), 22:29983 (MIT-905-108, pp 1-32)

PRASEODYMIUM ISOTOPES Pr-147

- determination in marine sediments, 23:2 (CISE-108)
- energy levels and beta decay scheme of, evaluated data on, (E), 22:22596
- separation from fission products of uranium by electrophoretic ion focusing, 23:37876
- separation from light rare earths by electrophoretic ion focusing, 23:37877
- separation of neptunium from, by solvent extraction using 1-nitroso-2-naphthol, 24:11674

PRASEODYMIUM ISOTOPES Pr-148

- beta decay scheme, (E), 22:11974
- decay of, gamma spectra from, (E), 21:14930(R) (ORO-3235-12)
- energy levels and beta decay scheme of, evaluated data on, (E), 22:22596

PRASEODYMIUM ISOTOPES Pr-149

- decay scheme of, gamma spectra for, (E), 21:29974

PRASEODYMIUM ISOTOPES Pr-150

- beta decay of, β and γ energies and half-life for, (E), 25:7873
- decay and energy-level transitions following californium-252 fission, (E), 25:3673

PRASEODYMIUM MOLYBDATES

- crystal structure of, relations with oxysulfides, 22:4893
- preparation by precipitation in specific media under controlled conditions, 24:9458

PRASEODYMIUM NITRATES

- complexes with 4,4'-dibutyl- and 5,5'-dibutyl-2,2'-bipyridine, spectral studies on structure of, 23:35070
- complexes with diisopropyl N,N-diethylcarbamylphosphonate, structure of, 23:11500
- complexes with TBP, stability constants for, 23:7619
- complexes with triphenylarsine oxide, binding energy, electric conductivity, and ir spectra of, 22:21060
- polarographic behavior of, use of stationary platinum electrodes in fused potassium background for studies on, 23:6105
- separation by extraction chromatography using methylenebis[bis(2-ethylhexyl)phosphine oxide] and methylenebis[(dihexyl)phosphine oxide], 22:16665
- separation by solvent extraction using TBP, thermochemical studies on, 22:18907
- spectra of aqueous solutions of, at 25 to 360°C, 24:176 (ORNL-4422, pp 304-5)
- thermal decomposition in oxygen atmosphere at 320 to 360°C, 23:407
- H_2O—$Pr(NO_3)_3$—$Zn(NO_3)_2$, solubility at 20°C in, isotherms for, 24:39012
- H_2O—$Pr(NO_3)_3$—$Zn(NO_3)_2$, solubility in, phase studies on, 24:38812
- HNO_3—H_2O—$La(NO_3)_3$—$Nd(NO_3)_3$—$Pr(NO_3)_3$—$Sm(NO_3)_3$—TBP, solvent extraction cascade calculations for, computer program for, 21:6007
- $La(NO_3)_3$—$Pr(NO_3)_3$—TBP, exchange reactions in, NMR studies on rate of, 21:40836
- $Pr(NO_3)_3$—TBP—$Th(NO_3)_4$, exchange reactions in, NMR studies on rate of, 21:40836
- $Pr(NO_3)_3$—TBP—$UO_2(NO_3)_2$, exchange reactions in, NMR studies on rate of, 21:40836

PRASEODYMIUM NITRIDES

- thermal capacity at 1 to 270°K, 24:10624
- PrN—UN, analysis for praseodymium and uranium by x-ray fluorescence spectrometry, 24:26931
- PrN—UN, miscibility of annealed and arc melted, 23:46141

PRASEODYMIUM OXALATES

- chlorination using carbon dioxide—carbon tetrachloride mixtures, yields of, 23:962 (IS-1900, Paper 5)
- crystal structure of, 23:20981 (NP-17765)
- praseodymium-141 Moessbauer spectra in, 25:36344
- thermal decomposition in oxygen atmosphere at 320 to 360°C, 23:407
- thermal decomposition of $Pr_2(C_2O_4)_3$, catalytic effects of cerium on, 22:30552

PRASEODYMIUM OXIDES

- analysis for impurities, cathode region method for spectrochemical, 25:41833(R) (IA-1218)
- chemical hysteresis among phases of, 22:31995
- chlorination using carbon dioxide—carbon tetrachloride mixtures, yields of, 23:962 (IS-1900, Paper 5)
- compounds with europium oxide, preparation and structure of, 24:20751 (UCRL-72046)
- crystal growth and structure of higher, 25:51467 (CONF-711001-(Vol.1), pp 84-95)
- crystal structure of Pu_2O_3, 23:44021
- deposition and optical properties of thin films of, on glass substrate, 23:21008
- diffusion of oxygen in, 22:42650 (COO-1109-35)
- diffusion of oxygen in polycrystalline Pr_7O_{12}, (E/T), 25:58372
- diffusion of oxygen in, oxygen-18 isotope exchange studies on, 23:43287(R) (COO-1109-46)
- dissociation energies of gaseous PrO, mass spectrometric determination of, 23:26213 (COO-1182-27)
- dissociation energy and thermodynamics of PrO, 21:27931 (AD-651562)
- dissociation energy of PrO, 24:31338
- effects on oxidation of hydrogen, effects of oxygen mobility on catalytic, 22:6304
- effects on pH functions of glass electrodes, 22:16536
- electric conductivity and dielectric breakdown in thin films of, 22:24400 (CONF-670502-, pp 591-602)
- electric conductivity of, 21:14904
- electric conductivity of, at high temperatures, 21:15900
- electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
- electron reactions at 60 to 140 keV, K/sub α//K/sub β/ x-ray spectra from, (E), 25:49703
- formation of, comparison of literature and calculated heat of, 21:19619
- growth of single crystals of, hydrothermal methods for, 23:43287(R) (COO-1109-46)
- isotherms of, stoichiometry hysteresis, 24:6662(R) (ORO-3603-4)
- isotopic exchange studies on iota phase, 24:51219(R) (COO-1109-52)
- lattice energies of PrO/sub x/ (1.5 less than or equal to x less than or equal to 2) with defect structures, (T), 23:39567
- melting temperature of, 21:30431
- oxidation of, kinetics and thermodynamics of isobaric, 24:50365 (CONF-690916-(Vol.2), pp 259-60)
- oxidation to nonstoichiometric phases, kinetics and thermodynamics of, 24:14869
- oxygen-18 exchange between oxygen and, kinetics of, 23:7534
- phase behavior of nonstoichiometric, thermodynamic and x-ray diffraction studies of, 25:22187
- phase diagram of, comparison with plutonium oxide, 22:4888 (EUR-3563)
- phase studies by x-ray diffraction techniques, 22:42650 (COO-1109-35)
- phase studies of, 21:15900
- phase studies of, epsilon and iota pseudo-, 25:766 (CONF-700403-(Vol.1), pp 181-92)
- phase studies of, theory of solid-state, 22:31995
- phase studies on, 24:6662(R) (ORO-3603-4)
- phase transformation in, 23:13739
- phase transformation in thin films of, martensitic monoclinic—hexagonal, 25:35575
- phase transformation of thin films of, by heating in electron microscope, 25:52456 (CONF-711001-(Vol.2), pp 777-85)
- phase transformations in, 21:14904
- phase transformations in, effects of surrounding atmosphere on, 23:39052
- praseodymium-141 Moessbauer isomer shift in, 24:51854
- praseodymium-141 Moessbauer spectra in, 25:36344
- precipitation from molten alkali metal nitrate—rare earth nitrate mixtures, 22:23001 (CONF-670502-, pp 385-90)
- preparation by thermal decomposition of praseodymium dicarboxylates, 25:32066
- preparation of crystals of, hydrothermal studies of equilibria with water in, 25:42934 (COO-1109-60)
- preparation of microspheres of, by sol-gel method, 21:36906 (ORNL-4000)
- preparation of microspheres of, by sol-gel process, 21:1421(R) (ORNL-3965)
- preparation of monocrystals of, rf plasma torch method for, 21:45074 (COO-1109-25, pp 75-82)
- preparation of PrO_2, methods for, 21:5834 (IA-1082, pp 77-202)
- preparation of single crystal PrO_2, under hydrothermal conditions, 24:51219(R) (COO-1109-52)
- preparation of single crystals of, 22:42650 (COO-1109-35)
- preparation of sols, gels, and microspheres of, 22:22991 (CONF-670502-, pp 175-86)
- preparation of, by sol-gel process, significance of, 21:5844 (ORNL-TM-1682)

properties and structure of microspheres of, prepared by sol-gel method, 21:36906 (ORNL-4000)
properties for use in dispersion strengthening of aluminum, 25:8860(P)
properties of, physical and magnetic, 24:44805
reactions with americium oxides, solid-state, 22:30548
reactions with calcium oxide, physicochemical properties and stability of compounds formed by, 23:47442
reactions with carbon tetrachloride for conversion to chloride, 22:2560(R) (IS-RD-11)
reduction by heating, stability of compounds formed during, 25:42968
reduction of pure, in presence of carbon under vacuum, effects of temperature on, 21:8300
solubility in boron oxide—strontium oxide systems at 1100°C, 22:41123
spectra at 2 to 26 μ, ir, 21:19538 (N-67-12798)
spectra of Pr_2O_3, diffuse-reflectance, 21:25833
spectra of, extreme ultraviolet absorption, (E), 25:965 (DESY-70/41)
spectra of, ir, 21:40838
spectra of, ultraviolet absorption, 25:11698
spectra of, ultraviolet and visible, 22:42650 (COO-1109-35)
stability of low- and high-temperature modifications of Pr_2O_3, lattice energy calculations for, 23:39567
structure of, spectral studies on, 21:45076 (COO-1109-25, pp 129-87)
thermal capacities of nonstoichiometric, 22:10204(R) (COO-1149-102)
thermal capacity of, 23:9347(R) (COO-1149-136)
thermal conductivity at low temperatures, 22:41108
thermodynamic properties of widely nonstoichiometric region in, at 400 to 800°C and 170 to 700 torr, 23:8298 (CONF-681020-(Vol.1), pp 163-73)
thermodynamic properties of, electrochemical measurements on, 24:2203
x-ray spectral isochromat of, 24:10625
$BaO—Pr_2O_3$, phase studies of, 24:39723
$CeF_3—Pr_2O_3$, phase studies, 22:17178
$Fe_2O_3—Pr_2O_3$, phase studies on products from solid-state reactions in, 24:42272
$HfO_2—Pr_2O_3$, phase studies of, 21:16652 (KFK-433)
$HfO_2—Pr_2O_3$, preparation, properties, and structure of, 24:27854
$HfO_2—Pr_2O_3$, stability in acetic acid, ammonium hydroxide, inorganic acids, sodium hydroxide, and water, chemical, 24:27854
$MgO—Pr_2O_3$, phase studies on, at 1500 to 2350°C, 25:47178
$Nb_2O_5—Pr_2O_3$, compound formation in, at 1000 deg C, 21:4517
$Nb_2O_5—Pr_2O_3$, phase studies, 22:49839
$Nb_2O_5—Pr_2O_3$, phase studies at 800 to 1800°C, 23:39051
$Nb_2O_5—Pr_2O_3$, phase studies of, 22:21769
$Nb_2O_5—Pr_2O_3$, properties of, electric and thermal, 22:21769
$Nd_2O_3—Pr_2O_3$, preparation of microspheres of, by sol-gel process, 21:1421(R) (ORNL-3965)
$O—Pr_2O_3$, phase studies at high temperatures, by x-ray diffraction, 21:36940
$O—Pr_2O_3$, phase studies of, tensimetric, 22:42650 (COO-1109-35)
$O—Pr_2O_3$, thermodynamics of, tensimetric studies on, 21:45073 (COO-1109-25, pp 68-74b)
O—PrO, phase behavior in epsilon and iota regions of, pseudo-, 24:51219(R) (COO-1109-52)
O—PrO, phase reactions between iota and adjacent phases in, tensimetric study of, 24:32503
O—PrO, phases and structure in nonstoichiometric regions of, at high temperatures, 25:8938
O—PrO/sub x/, hysteresis and pseudo-phase behavior of, high-temperature x-ray diffraction studies on, 21:45078 (COO-1109-25, pp 194-209)
O—PrO/sub x/, phase diagram for, at high temperatures, 23:43287(R) (COO-1109-46)
O—PrO/sub x/, pseudo-phase behavior in, at high temperatures, 23:43287(R) (COO-1109-46)
$Pr_2O_3—SrO$, crystal structure and stability of compounds of, 23:36259
$Pr_2O_3—Ta_2O_5$, compound formation in, at 1000 deg C, 21:4517
$Pr_2O_3—Ta_2O_5$, phase studies at 800 to 1800°C, 23:39051
$Pr_2O_3—UO_3$, molecular structure of hydrated, 22:34119
$Pr_2O_3—W$, thermoemission of, 22:754
Pr_2O_3—zircon, electrochemical properties as MHD electrode, 22:11295
$Pr_2O_3—ZrO_2$, melting of mixtures of, x-ray fluorescence and powder diffraction studies on products of, 23:12439
$Pr_2O_3—ZrO_2$, phase studies, 21:22917
$Pr_2O_3—ZrO_2$, phase studies of, 21:16652 (KFK-433)
$Pr_2O_3—ZrO_2$, preparation and structure of, 22:36546
$PrO_2—TbO_2$, phase studies of, use of isobaric techniques in, 22:23897 (CONF-670502-, pp 200-12)
$PrO_2—ThO_2$, crystal structure of, relations with stoichiometry, 25:764 (CONF-700403-(Vol.1), pp 115-26)
$PrO_2—ThO_2$, phase studies of, relations with stoichiometry, 25:764 (CONF-700403-(Vol.1), pp 115-26)
PrO/sub 1.83/—ZrO_2, electric conductivity of, effects of composition and temperature on, 23:39566
$PrO—ThO_2$, phase relations and lattice parameters for, 25:42996
$PrO—UO_2$, crystal structure of mixed oxides in, 24:51219(R) (COO-1109-52)
$PrO—ZrO_2$, phase relations in, effects of oxygen pressure on, 25:52454 (CONF-711001-(Vol.2), pp 631-7)

PRASEODYMIUM OXYCARBONATES
preparation of monocrystals of, hydrothermal studies of equilibria with water in, 25:42934 (COO-1109-60)

PRASEODYMIUM OXYCHLORIDES
production by reactions of fused chlorides with oxygen, 22:33353
KCl—PrOCl, phase studies on, 22:33353

PRASEODYMIUM OXYSULFIDES
crystal structure of, relations with structure of lanthanum oxychlorides and lanthanium molybdates, 22:4893

PRASEODYMIUM PERCHLORATES
complexes with cyclic ethylene methyl ester of phosphoric acid and trimethyl phosphate, electric conductivity and ir spectra of, 24:16538
thermodynamic properties of aqueous solutions of, 24:16485 (IS-2100, Sect. C)

PRASEODYMIUM PHOSPHIDES
crystal field levels in, neutron inelastic scattering study of, 25:27893
crystal field levels of, neutron inelastic scattering study of, 24:49267
magnetic coupling and NMR shifts in, effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
magnetic coupling in, NMR studies of s-f exchange energy for, 22:24383 (CONF-670502-, pp 68-77)
praseodymium-141 NMR in, 25:5226
preparation of PrP, 21:13246
stability in air, argon, or hydrogen, from 25 to 1450°C, 23:9403

PRASEODYMIUM SELENIDES
crystal field levels in, neutron inelastic scattering study of, 25:27893
crystal field levels of, neutron inelastic scattering study of, 24:49267
praseodymium-141 NMR in, 25:5226
structures of, 21:28840

PRASEODYMIUM SELENITES
preparation, composition, and thermal stability of, 23:186

PRASEODYMIUM SILICIDES
hydrolysis of, yields of silanes from, 21:10307 (IS-T-135)

Praseodymium Sodium Fluorides
see Sodium Praseodymium Fluorides

PRASEODYMIUM SULFATES
decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
praseodymium-141 Moessbauer isomer shift in, 24:51854
praseodymium-141 Moessbauer spectra in, 25:36344
praseodymium-141 NMR spectra in single crystals of, 22:11511

PRASEODYMIUM SULFIDES
chemical bonding in, ir spectral studies on, 23:49811
crystal field levels in, neutron inelastic scattering study of, 25:27893
crystal field levels of, neutron inelastic scattering study of, 24:49267
dielectric properties of, ir spectral studies on, 23:49811
dissociation energies of gaseous, mass spectrometric determination of, 23:26213 (COO-1182-27)
thermodynamic properties of Pr_3S_4, 22:27515 (COO-1182-24)
vaporization and thermodynamics of Pr_3S_4 and PrS, 24:31338
vaporization of Pr_3S_4, 22:27515 (COO-1182-24)

PRASEODYMIUM TELLURIDES
crystal field levels in, neutron inelastic scattering study of, 25:27893
crystal field levels of, neutron inelastic scattering study of, 24:49267
crystal structure of, 23:14897
crystal structure of, 21:21956
electric conductivity and thermal emf of, 21:21956
magnetic properties of, 23:14897

PRASEODYMIUM TELLURITES
preparation and properties of, 21:61

PRASEODYMIUM THIOCYANATES
complexes with 4,4'-dibutyl- and 5,5'-dibutyl-2,2'-bipyridine, spectral studies on structure of, 23:35070

PRASEODYMIUM URANATES
crystal structure of, 22:30523
preparation of, 22:30523
stability of, thermal, 22:30523

PRASEODYMIUM VANADATES
crystal structure and preparation, (E), 22:49812
preparation by precipitation in specific media under controlled conditions, 24:9458

PRCF
see Plutonium Recycle Critical Facility

PRDC Reactor
see Fermi Fast Breeder Reactor

Pre-Buggy Event
see Plowshare Project

Pre-Gnome Event
see Plowshare Project

PREAMPLIFIERS
see also Amplifiers
amplifiers for pole zero-compensated, design of delay-line, 21:45345(R) (IDO-17234)
capacitive-sensitivity of charge-sensitive, 23:11910
capacitors for charge-sensitive semiconductor detector, design of stable 1 pF charge injection, 23:35495
characteristics of transimpedance, for Auger electron spectrometer, 24:23013
circuit for charge-sensitive FET, for operation in vacuum, 22:21377 (ORNL-4219, pp 4-17)
circuit for low-noise wide-band current, for use with semiconductor detectors, 22:21377 (ORNL-4219, pp 4-17)
circuit for overload cancellation in charge-sensitive, for scintillation detectors, 24:4438
circuit for semiconductor detector, overload recovery, 24:2440 (BNL-14058)
circuits for charge-sensitive, with dynamic load resistance, 25:44724 (INR-1241)
circuits for nuclear detector data-processing, noise-minimization input, 23:49582 (ANL-7410, pp 339-86)
description for p-i-n semiconductor detectors, 22:10551
description of charge sensitive, for use with semiconductor detectors, 21:12706 (INR-682/I-A/PL)
description of charge-sensitive, for semiconductor detectors, 21:26204
description of charge-sensitive, with high resolution, 22:12707
description of germanium FET low-noise, for use in semiconductor detectors, 22:37998 (UCRL-17989, pp 261-95)
design and construction of low noise charge-sensitive, for radiation detectors, 21:6331 (IA-1082, pp 295-309)
design and performance for semiconductor detectors, 22:33689 (ZfK-121, pp 1-133)
design and performance of broadband current, for semiconductor detectors, 25:23839 (ORNL-TM-3252)
design and performance of charge-sensitive, for germanium semiconductor detector, 24:4447
design and performance of charge-sensitive, for semiconductor detectors, 24:39259
design and performance of current pulse, for fission chambers, standard for, 25:51857 (RDT-C-15-3-T)
design and performance of fast, for high-resolution gamma spectrometer, 21:3276
design and performance of FET, for high-resolution semiconductor radiation detectors, 23:22000
design and performance of FET, for semiconductor detectors used in gamma and x-ray spectroscopy, 23:41034 (EUR-4289, pp 21-34)
design and performance of high-resolution cooled system of detectors and, for detection of charged particles, 22:315
design and performance of high-resolution current, for semiconductor counters, 25:51860
design and performance of high-resolution high-rate, for gamma spectrometers, 23:22076
design and performance of high-resolution voltage-sensitive cooled, for semiconductor counters, 25:34910
design and performance of linear-gated charge-sensitive, for proportional detectors, 23:33404
design and performance of low input-impedance, for semiconductor detectors, 21:39230
design and performance of low-noise charge, for lithium-drifted germanium detectors, 22:49091
design and performance of low-noise charge-sensitive, with nuvistor, for semiconductor detectors, 23:11765
design and performance of low-noise FET, for lithium-drifted germanium gamma and x-ray spectrometry, 21:8640(R) (IDO-17211)
design and performance of low-noise transistorized, for semiconductor detectors, 24:27360
design and performance of low-noise wide-band current-pulse, for neutron counters, 25:57751
design and performance of low-noise, using germanium junction FET's for semiconductor detectors, 22:14755 (UCRL-18005)
design and performance of low-noise, using germanium FET's for silicon detectors, 22:2350 (UCRL-17818)
design and performance of low-noise, with FET input stage for silicon detectors, 23:21965
design and performance of MOSFET, helium-cooled, r-f, for nuclear magnetic resonance spectrometer, 23:4857
design and performance of nuvistor, for semiconductor detectors, 22:51220 (IAE-1453)
design and performance of opto-electronic feedback, for high-resolution semiconductor x-ray spectrometer, 23:33487
design for electric probes for studying synchrocyclotron beam stability, 21:7617
design for fission chamber, 22:51276(R) (IDO-17269)
design for G—M detector readout for TSEE dosimeter, 25:18644 (ORNL-4584, pp 152-64)
design for magnetostriction wire spark chamber, 24:36617
design for semiconductor spectrometers, rate-oriented features in, 23:22075
design for small capacity germanium detectors, 22:47336
design for spark counter readout system for thin-film dielectric track detectors, 25:18644 (ORNL-4584, pp 152-64)
design for use in fast counting system, engineering drawings for, 21:32477
design for use with β-excited light source for photometer, engineering drawings for, 21:32548
design for use with fission counter, engineering drawings for, 21:34547
design for use with Quad sodium iodide scintillation detector, 24:39172(R) (LA-4457)
design for use with silicon detectors for conversion electron and x-ray spectroscopy, 22:19134 (JINR-P13-3718)
design for use with silicon surface-barrier detectors, 23:17107(R) (OU-LNS-68-1)
design of ac-coupled, which allows use of 10-stage photomultiplier with commercial nanosecond electronics, 21:43309
design of cascode, for proton-recoil proportional counter, 21:13946(R) (ANL-7279)
design of charge-sensitive, 23:22125
design of charge-sensitive FET, for use with lithium-drifted germanium detectors, 21:28196 (AFWL-TR-67-39)
design of charge-sensitive low noise FET, for improved ionization counter resolution, engineering drawings for, 22:14819
design of charge-sensitive transistorized, 23:17107(R) (OU-LNS-68-1)
design of charge-sensitive, for high counting rates, 24:29598
design of charge-sensitive, for semiconductor detectors, 23:33408
design of charge-sensitive, for use with silicon detectors, 21:16103 (CLOR-60/D)
design of dc-coupled and pole zero-compensated FET, 21:45345(R) (IDO-17234)
design of fast current, for neutron collimation for surface-barrier detector, 25:8519
design of FET dual, for tomographic gamma ray scanner, engineering drawings for, 23:2576

design of FET low noise, for semiconductor radiation detectors, 21:3303
design of FET, for solid-state detectors, engineering drawings for, 22:28125
design of FET-input, for ionization chambers, 21:10645
design of field-effect transistor, for boron trifluoride proportional counters, 21:34516 (ORNL-4091, pp 15-21)
design of field-effect transistor, for use with boron trifluoride detector, engineering drawings for, 21:36398
design of high-resolution, for germanium detectors used for gamma spectroscopy, 21:30705
design of high-speed FET, 24:39207 (IN-1317, pp 233-381)
design of high-speed low-noise FET, for coincidence measurements with lithium-drifted germanium detectors, 22:51276(R) (IDO-17269)
design of low gain charge-sensitive, for radiation detectors with large Coulomb output, engineering drawings for, 23:38274
design of low-noise charge-sensitive, for lithium-drifted germanium gamma detectors, 21:36375
design of low-noise charge-sensitive, for proton-recoil proportional counters, 21:8659
design of low-noise charge-sensitive, for use with germanium detectors, (E), 22:5817(R) (NYO-GEN-72-28)
design of low-noise charge-sensitive, using field effect transistors for semiconductor detectors, 25:29343
design of low-noise charge-sensitive, with field-effect transistors, 21:30743 (RISO-M-540)
design of low-noise current-sensitive, for semiconductor detector, 23:21994
design of low-noise wide-band current, for semiconductor detectors, 21:28210 (ORNL-P-3064)
design of low-noise wide-band current, for semiconductor detectors, 23:21993
design of low-noise, based on germanium FET's, 21:43310
design of low-noise, for semiconductor counters, 25:48907
design of low-noise, for semiconductor detectors, 22:37971 (AI-AEC-Memo-12706)
design of low-noise, using field effect transistors for semiconductor detectors, 25:29340
design of parametric charge, for semiconductor detectors, 24:2465(P)
design of vacuum-hardened charge-sensitive, 21:46643(R) (ORNL-4134)
design of voltage-sensitive, for use with photomultiplier tubes, 24:529
design of wide band charge-sensitive, for proton-recoil proportional spectrometer, 23:29206 (ANL-7517)
design of wide-band FET charge-sensitive, for proportional detector used in neutron spectroscopy, 21:45345(R) (IDO-17234)
design of wide-band low-noise charge sensitive, engineering drawings for, 22:30919
design of wide-band low-noise voltage-sensitive, for proportional detector, 25:32233
development, 23:16090 (ORNL-4335, pp 2-11)
development for lithium-drifted silicon detectors for x-ray spectroscopy, 25:10812 (CEA-N-1401)
development for proton recoil proportional counting of neutron spectra, 24:47891 (ANL-7610, pp 369-464)
development of charge-sensitive, for semiconductor detectors, 23:19253(R) (ORO-2972-80)
development of fast, for timing of signals from semiconductor detectors, 23:16098
development of low-noise charge-sensitive, 22:37281(R) (NYO-72-191)
development of low-noise charge-sensitive, for lithium-drifted germanium radiation detectors, 22:10541 (MIT-952-4, pp 267-99)
development of modified cascode, for proton-recoil proportional counters, 21:10647
development of optoelectronic feedback, for semiconductor detectors, 25:6538 (UCRL-19530, pp 329-39)
electric properties of FET-input, used with semiconductor detectors, 22:40430
electron tube design for low-noise, 22:36146
feedback system for semiconductor detector, opto-electronic, 24:39258
feedback techniques for, application of pulsed, 25:57812
noise analysis of cooled, load-sensitive, with field-effect transistors connected in parallel, 21:43299 (KFK-509)
noise characteristics of, 23:21996
noise level of FET, for gamma spectroscopy, 22:38079
noise mechanisms in FET, for semiconductor detector spectrometers, 21:36352 (UCRL-17559)
noise performance of, operating point of FET for optimum, 21:26300
noise studies of ceramic-encapsulated junction FET, 24:39315
operation range of vhf telemetry, testing for determination of linear, 21:27862 (SC-DR-67-298)
performance of cooled FET, with extremely low noise, 22:38138 (CONF-670545, pp 62-7)
performance of pulsed-light feedback, with semiconductor detector for x-ray spectroscopy, 25:2462
power supply for fission chamber, operation and maintenance of, 22:30821 (ORNL-TM-1638(Pt.17))
pulses from semiconductor detector, sampling techniques for statistical analysis of, 23:21989
resolution and stability of low-noise, for semiconductor detectors, 23:13990 (RT/EL-(68)4, Paper 2)
resolution of FET, in spectroscopy unit, 22:12708
response of charge-sensitive, for use with semiconductor detectors, use of pulse transformers for improving, 22:14749 (KFK-617)
sensitivity to capacitance variations of solid-state detectors, reduction of, 21:28225
specifications för JAERI modular, 25:42185 (JAERI-13605)
test procedures for semiconductor detector, standard, 25:32258
theory for processing pulses from semiconductor detectors, 22:37978 (CONF-670545, pp 36-56)
time-constant reduction in charge-sensitive, method for, 21:43308
transistor noise characteristics in charge-sensitive, effects of frequency and temperature on FET, 23:21997
use of charge-sensitive, in alpha spectrometers, 21:30693 (IN-1082)
use of charge-sensitive, in fast Moessbauer data-acquisition system, 22:2397 (ORNL-IIC-10(Vol.1), pp 142-56)
use of current-sensitive, for semiconductor detectors, 21:43260
use of germanium FET, with lithium-drifted germanium detectors for gamma and x-ray spectroscopy, 22:19136 (UCRL-17901)
use with semiconductor detectors for nuclear spectroscopy, 21:30692 (IFA-CRD-33)

PRECIPITATES
deposition in pipe and channel walls, effects of turbulent flow on, (T), 22:33175
sedimentation rates of inorganic, in coastal and open ocean waters in relation to thorium-234 distribution measurements, 22:49182 (TID-24637)

Precipitation, Atmospheric
see Atmospheric Precipitation

Precipitation, Chemical
see Chemical Precipitation

PRECIPITATORS
see also Cascade Impactors
see also Cyclone Separators
see also Electrostatic Precipitators
see also Particle Precipitators
see also Sonic Precipitators
capacity of continuous, tests on, 25:6393 (CEA-N-1341, pp 245-315)
capacity of continuous, tests on, 25:26330(T) (ORNL-tr-2410, pp 14-78)
design of continuous, for use with plutonium oxalates, 22:50956(P)

Precursors, Delayed-Neutron
see Fission Products

PREDNISOLONE
effects on phytohemagglutinin-induced blastoid transformation and radioresistance in human lymphocytes, 21:22309
effects on subsequent nephritis in γ-irradiated rabbits, 25:24391
effects on tumor cell proliferation in rabbits in relation to virus multiplication, combined effects of γ radiation on, 21:41520
radioprotective effects of, on female guinea pigs, 21:39455
radiosensitivity of leukocytes from, x, 21:427
sensitivity of leukocytes to, comparison with effects of x rays, 21:427

PREDNISONE
effects alone and in combination with irradiation on survival of man with kidney transplants, 24:29718
effects in combination with radiation on function of human kidney transplants, 24:29719
effects on blood picture, 21:45719
radioprotective effects of, on skin of man, uv, 22:45594
use in treatment of Hodgkin's disease, combined effects of x radiation on, 21:41461
use of, as immunosuppressive agent, 21:6578

PREFERRED ORIENTATION
determination in metals using neutron diffraction, 23:8217

PREGNA-1,4-DIENE-3,20-DIONE, 9-FLUORO-11β,17,21-TRIHYDROXY-16β-METHYL, 17-VALERATE
effects on radioinduced edema of tissues of central nervous system in rabbits, x, 24:6115
radioprotective effects of, on skin of swine, x, 22:33852

PREGNANCY
abortion in Hiroshima family in relation to aberrant karyotypes, 24:32141
calcium radioisotope metabolism and mobilization during, in rats, 23:22199
calcium-47 metabolism in goats during, effects of age on, 23:50274 (COO-1339-36)
cesium-137 half lives during human, 23:14131
conference on transplantation and, 24:11984
effects on accumulation of calcium and strontium in skeleton of rats, 24:41736
effects on activity of alanine aminotransferase, alkaline phosphatase, asparte aminotransferase, and lactate dehydrogenase in blood serum of man, 23:29353
effects on blood circulation in human uterus, measurement of, using xenon-133 and external counting, 22:25948
effects on calcium metabolism in x-irradiated rats, 23:33863
effects on cesium-137 metabolism in rats, combined effects of ferric cyanoferrates on, 22:30980
effects on content of potassium and rubidium of humans, 22:51297 (COO-119-238)
effects on distribution and retention of cesium-137 and rubidium-83 in mice, 23:41199 (COO-119-239, pp 40-60)
effects on growth of L-M cells following inoculation into mice, 23:10092
effects on hematopoiesis in rabbits following chronic uptake of iron-59, 22:21600
effects on iodine-132 metabolism by man, 22:47487
effects on iron metabolism in man, tracer study of, using stable iron followed by neutron activation of samples, 24:4651(R) (TID-25256)
effects on plutonium metabolism in rats, 22:8478
effects on x-radiosensitivity of fetal rat brain, effects of fetal age on, 23:8058
effects on zinc-65 metabolism in rats, 23:35602 (ORAU-107, pp 242-5)
incidence of, among women exposed to atomic explosions in Japan, 21:12958
iodine-131 metabolism by rabbits during, 22:10687
iron-59 administration during, long-term carcinogenic effects of, in human females and children, β and γ, 24:2821
phase of, effects of, in teratogenic response in x-irradiated pregnant mice, 23:24748
phase of, effects of, on development of fetuses in pregnant fast neutron-irradiated rats, 23:24747
radiation effects on central nervous system of human embryos and fetuses exposed during, review of, 22:47609
radiation effects on content of lipids in rats during, acute x, 23:4884
radiation effects on fetuses during, in man and mice, x, 22:6879
radiation effects on fetuses of mice exposed at different stages of, effects of dose on x, 22:6882
radiation effects on frequency of spontaneous termination of human, in relation to chromosome aberrations, 25:18969
radiation effects on incidence of complications of, in medical personnel, x, 22:45513
radiation effects on incidence of human, effects of ovarian and pituitary exposure on x, 23:43887
radiation effects on maintenance of, in rabbits, x, 23:793
radiation effects on mice during, combined effects of dose and season on teratogenic, x, 22:31270
radiation effects on mice during, protective effects of lipopolysaccharides against lethal whole-body x, 23:41351
radiation effects on term of, in mice, effects of dose and paternal exposure on x, 22:15073
radiation effects on termination of, in humans, effects of dose on γ, 23:6527
radiation hazard to fetus from iodine-131 therapy of hyperthyroidism during human, β and γ, 23:5044
radiation hazards during, from radiography, x, 23:31973 (NYO-3970-20)
radiation hazards to embryos and fetuses during, 23:29866
radiation hazards to fetus from radiography during, 23:33729
radiation hazards to fetus from therapy during, x, 23:33895
radiodiagnosis during human, review of hazards from x, 22:4668
radiodiagnosis during, effects of, on abortions and congenital malformations, x, 23:10101
radiodiagnosis during, hazards from x, 21:26593
radiodiagnosis during, hazards to fetus from x, 23:20414
radiodiagnosis of abdominal, in man, use of technetium-99 and scintillation counter for, 22:31169
radiography during, demographic analysis of incidence of x-ray diagnostic, 24:780
radiography during, dose to maternal gonads from, 22:2513
radiography during, effects of, on mother and fetus following iodine-132, technetium-99 γ, and x, 22:51799
radioinduced bone malformations in fetuses of mice following exposure during, x, 22:33968
radioinduced maternal dysfunction during, in rats, effects of progesterone treatment on x, 22:38350
radioisotope metabolism by deer and sheep during, calcium-47, cesium-137, iodine-131, and strontium-85, 23:12011 (UCD-472-115, pp 98-103)
radioisotope scanning for localization of human placenta during, use of technetium-99-labeled pertechnetate and γ cameras for, 22:38359
radiotherapy of Hodgkin's disease during, hazards to fetus from x, 23:38576
radiotherapy of human cervical carcinoma during, effects of, on excretion of estriol and vaginal cytology, acute γ, 22:51928
scintiscanning of kidneys and ureters during human, radiation dose to fetus during iodine-131 β and γ, 22:36339
stage at time of exposure in mice, effects of, on x-radiosensitivity of mutation frequency in mice, 22:8498 (CONF-670305-, pp 81-7)
stage of, effects on x-radiosensitivity of fetus, 24:25579
strontium-90 transfer during, of dogs, retention following, 23:12002 (UCD-472-115, pp 19-20)
strontium-90 translocation from maternal skeleton of dogs during, to litters, 23:12034

Presses
see Hydraulic Presses

PRESSURE
see also High-Pressure Systems
see also Osmotic Pressure
see also Pressure Gages
see also Pressure Vessels
see also Pumps
see also Seals and Glands
see also Vapor Pressure
calculation of average surface, on inclined bodies of revolution at hypersonic speed, 25:54384 (SC-RR-710287)
calculation of cavity wall, following low-yield nuclear explosion, 23:15991 (AD-673530)
calculation of nuclear explosion fireball, 23:9602
calculation of time-dependent, for coupled volumes, computer program for, 25:54886
control of, relief valve for, 21:3204(P)
distribution on blunt bodies at hypersonic speeds, effects of impinging shock wave on, 22:49015 (FFA-115)
distribution over blades of swept compressor cascades at Mach 0.3 to 0.9, (E), 22:23214(T) (K-Trans-28)
effect of static axisymmetric, on elastic stability of thin orthotropic ogival shells, 22:10143 (SC-CR-67-2709)
effects of dynamic, on dense media, 23:12262
effects of high, on strength of metallic materials, 24:8046(T) (UCRL-Trans-10391)
effects on creep and plastic deformation in thin tubes, 22:28810
effects on elastic properties of indium—thallium alloys at 300°K, 23:48394

effects on flow stability in parallel heated channels, (E), 23:2500
effects on γ-radiosensitivity of Bacillus pumilus spores, 23:33912
effects on laminar heating of leading edge of flat plates, 22:37929 (SC-RR-68-133)
effects on nuclear explosion-produced shock waves, design of simulator for studying, 25:46578(P)
effects on physical properties of solids, International Meeting at Grenoble, France, Sept. 8 to 10, 1969, 25:25229
effects on radon-222 concentration in mine atmosphere, regulation of ventilation following study of barometric, 23:26771
fluctuation of atmospheric, development of arrays of microbarographs for analysis and recording of, 23:2437
fluctuations of reactor coolant, effects on core components of, 24:52869 (ANL-7685, pp 47-63)
generation of, effects of chemical energy release on, 21:40575(R) (STL-372-50)
generation using shock-tubes, 21:40575(R) (STL-372-50)
hydrostatic, effects on regeneration of Blepharisma, 23:12189
maintenance of partial, in oil-diffusion pumped vacuum system, pneumatic headgate valve controller for, 23:21932 (RFP-1140)
measurement at foot of vertical wall facing air blast, 23:4793 (ORNL-TM-2362)
measurement in adiabatic two-phase vertical flow in tubular channels, 21:12578 (TID-23394(Vol.3))
measurement in fast breeder reactor spiral spaced rod type fuel assemblies, effects of turbulent coolant flow on, 24:11195
measurement in liquid metal bearing films, development of instrumentation for, 24:14129(R) (NYO-3930-6)
measurement in ultrahigh vacuum systems, use of hot and cold cathode ionization gages for, 21:19888
measurement of atmospheric and underground gas, of Bandelier Tuff, Los Alamos, New Mexico, design of equipment for, 24:14066
measurement of bottomhole and surface, in Project Gasbuggy wells, Sept. 1967 to Sept. 1968, 23:489 (PNE-G-8)
measurement of critical discharge, for high pressure steam—water flow in pipes, 24:372
measurement of detonation, for TNT, Comp B-3, LX-04-1, and PBX-9404 high explosives, 23:40526 (UCRL-50645)
measurement of high, using semiconductor strain gages, 25:15458(T) (SCL-T-71210)
measurement of low, effect of chemical reactions, desorption and α-ray limit on, 21:43219
measurement of low, review of developments in, 21:1555
measurement of static, effects of density, heat transfer, and orifice size on, 22:234 (ORNL-TM-1975)
measurement of transient, in partially confined nonmetallic fluids in rapidly heated tubes, 22:8293 (ANL-7337)
measurement of ultrahigh, equipment for, 22:19580 (BNWL-455, Paper 12.1-100)
measurement of, in transition boiling heat transfer, 21:14382(R) (GEAP-4769)
measurements at altitudes of 30 to 90 km, analysis of, 21:32069 (SC-RR-67-251)
measurements in by-pass-connected parallel channel fluid flow, 24:373
physics of extreme temperature and, (T), 25:5239
production of dynamic, by exploding wire shock waves, 24:46393 (IN-1406)
production of ultrahigh, design and calibration of x-ray cell for, 21:45278 (BNWL-438)
scales for high and very high, validity of, 25:10352(T) (LA-tr-70-26)
suppression in reactor containment systems, description of water filled tray for, 23:43124(P)
thermomolecular differences in, accommodation coefficients for measurement of, 22:28013 (MLM-1430)
transmission of transient high, use of megagauss magnetic fields for, 23:11703
variations in atmospheric, detection and location of atmospheric nuclear explosions by, 24:14114

PRESSURE DROP
see also Fluid Flow
see also Gas Flow
see also Liquid Flow
calculation for large desalination plant condenser tube bundles, computer program for, 22:23198 (TID-24347)
calculation in pressurized water loop with and without boiling, LUPO computer program for, 22:10482 (EUR-3643)
calculation of friction, in two-phase flow in tubes, 23:21882 (CONF-680118-5)
effects on heat transfer in turbulent boundary layers, 22:21271 (FFA-113)
effects on liquid film thickness in adiabatic two-phase flow, (T), 22:35995
measurement for air flowing through randomly packed beds, 22:229 (AAEC/E-178)
measurement of heat transfer coefficient, in two-phase flow systems, (E), 22:27994 (GEAP-5417(Vol.2))
measurement of heat transfer coefficient, in two-phase flow systems, (E), 22:27993 (GEAP-5417(Vol.1))
measurement of isothermal, design of loop for, 22:10490 (WAPD-TM-386)
measurement of potassium—sodium, flowing in loops, design of device for, 22:12481
measurements for bundled tubes at high Reynolds numbers, effect of tube row number on, 23:4774
measurements for two-phase flow in multirod geometries, 23:33323 (GEAP-5739)
measurements in randomly packed beds of zirconite sand balls, 23:519 (AAEC/TM-465)
measurements in subcooled boiling water systems, 22:42962(R) (NYO-3679-4)
measurements in subcooled boiling water systems, 22:42963(R) (NYO-3679-5)
measurements on herringbone finned cans, 22:40303 (CEA-R-3425)
prediction for two-phase flow through changes of flow cross section, equations for, 23:21879 (CONF-680118-2)
rates in tubular fuel elements, effects of surface roughness on, 22:12527

PRESSURE GAGES
see also Manometers
see also Strain Gages
see also Transducers
see also Vacuum Gages
calibration in ultrahigh vacuum, adjustable conductance method for absolute, 24:48257
calibration of piezoelectric quartz, for measuring pressure in hydrogen bubble chamber, 23:2726
calibration of quartz piezoelectric, for hydrogen bubble chambers, 22:40460 (DESY-68/30)
calibration of shock wave, use of ballistic pendulum for, 21:19993 (SC-TM-66-567)
calibration of, equipment for, 21:15835(R) (UCID-15066)
characteristics of piezoelectric and strain-gage bar transducers used in scale model structural response measurements, 23:26605 (EUR-4101, pp 153-92)
configuration of heat variation transducer with acoustic signal, description of contained-liquid, 22:42543(P)
current generator for Manganin, design of pulsed constant, 21:17914 (SC-TM-67-30)
data from, computer program for numerical analysis of, 21:28310 (UCRL-50233)
description and performance for plasma dynamics and detonation, 21:34540
description of miniaturized, for LMFBR environment, 22:14127 (ANL-7380, pp 63-4)
design and performance of miniaturized ADIT, for pressure buildup measurements of reactor fuel elements, 22:30906
design and performance of radiation-resistance, for NERVA Reactor, 22:30925
design and performance of sodium—potassium-filled dual-bellows differential, for high temperature measurements, 21:39314
design and performance with tritium source, for pure water vapor pressure determination, 21:8631
design and testing of 100,000-psi eddy-current, 22:12686 (UCRL-50341)
design and testing of eddy current liquid metal, standard for, 25:42195 (RDT-C-6-3-T)
design for measurements in reactor coolant loops with gas—solid suspensions, 23:7910(P)
design for measuring gas pressure in underground nuclear explosion cavities, 21:45275 (UCRL-50295)
design for plasma jet measurements, 21:31399 (SSD-TR-67-88)
design for plasma pressure measurement in pulsed MHD wind tunnel, 21:34536
design for radioactive gases, 25:42179(P)
design of absolute, for operation down to 2°K, 22:28253
design of alpha radiometric, for high altitude constant level balloon flights, 22:38123
design of battery-powered thermocouple-compensated, for measuring pressure in electric discharge tubes, 21:45454 (LRP-32/67)
design of dielectric capacitor, for pressure control in glove boxes, 21:22081(P)
design of etched manganin, for shock pressure measurements in high-noise environments, 21:41293 (SCL-DC-67-92)
design of etched manganin, for shock pressure measurements in high noise environments, engineering drawings for, 22:45365
design of ionization chamber, for measurement of pressures of 0.75 x 10^3 to 0.75 x 10^{-4} mm mercury, 21:24152(P)
design of miniature transducer system using NaK filled bellows sensor, for LMFBR fuel pins, 24:16188 (ANL-7574)
design of miniature, for measuring gas pressures in reactor fuel pins, 22:12670 (ANL-7380, pp 65-9)
design of peak-reading acoustic, 21:1533(R) (UCID-4868)
design of piezoelectric, for shock measurements, 23:3452(T) (NP-tr-1670)
design of quartz crystal, with 2 μsec response, 21:17915 (SCL-DR-66-110)
design of radiation-backscatter, 21:28295(P)
design of radiometric, using semiconductor detectors, 22:40476(P)
design of solid galvanic, for oxygen, 25:11472(R) (AD-708705)
design of wide-range radiometric, 23:33548(P)
design using dielectric constant of ionic crystal, 25:6230 (COO-623-155)
detectors for beta radiometric, at 20 to 0.02 psi, avalanche semiconductor, 25:4323 (NYO-4028-TA-1)
development for deep ocean surface wave measurements, 21:30322 (NVO-98-29)
development for fission products in FFTF fuel elements, 21:21755(R) (ANL-7302)
development for measurement of fission gas pressure in fuel elements, 24:48354
development of electromagnetic, for flowing liquid metals, 25:57646(P)
development of high-temperature bearing film, for use in liquid sodium, 25:46651 (NYO-3930-12)
development of implantable americium-241-fueled, for monitoring intracranial pressures, 25:4241
development of LMFBR, description of, 23:2014 (WASH-1104)
development of microbarographs, 21:26276 (SC-DR-67-149)
development of underwater radiometric, 24:46527 (TID-25484)
errors in, pressure and temperature dependence of, 21:30239 (NP-16767)
fabrication of molybdenum—zircon sensor components, 21:13132
failure of Barton differential, description of SEFOR coolant sodium-induced, 23:26036 (GEAP-5466)
fission gas piston-actuated acoustic transducer for electromagnetic chart recorder, description of fuel element, 22:39946(P)
performance for measurements in bubble chambers, effects of high magnetic fields and low temperatures on, 25:34987 (CONF-700623-(Vol.2), pp 863-72)
performance in EFFBR coolant system, 22:14124 (ANL-7380, pp 29-36)
performance in ultrahigh vacuum systems, effects of leaks on, 23:38238
performance of cone-cylinder, in sounding rocket flights, 21:32069 (SC-RR-67-251)
performance of liquid metal cooled reactor in-vessel, 25:12781 (ANL/EBR-25)
performance of microwave frequency, for LMFBR cooling systems, 24:40934
performance of miniature transducer system using NaK filled bellows sensor, for LMFBR fuel pins, 24:16188 (ANL-7574)
performance of piezoelectric probe for measuring pressure pulses in plasma, 24:21762 (JUL-607-PP)
performance of quartz crystal, effects of nonuniform pressure on, 21:38851 (UCID-15177)
performance of short pressure bars for measurement of long-duration pressure-pulses, 21:32500 (SC-R-67-1116)
protective device for radioactive solution, description of, 22:16962(P)
radiation hazards to personnel during use of γ radiometric, for testing boilers, 22:45579
response in TREAT integral sodium loops, transient, 21:30091(R) (ANL-7210)
state-of-the-art for liquid sodium environment differential-transformer, variable impedance, electromechanical, volumetric, and force balance, 23:13538 (BNWL-882)
testing of air, in SNAPTRAN-2 program, 21:8640(R) (IDO-17211)
thermal effects simulating device for, 24:53060 (SC-DR-70-380)
use for measuring plasma losses from theta pinch devices, 21:31385 (CLM-R-70)
use of Bourdon tube, in nucleate boiling test loop, 21:34392(R) (EURAEC-1811)
Wrede-Harteck fittings for, construction of water-cooled, 21:21844 (UCRL-16214)

PRESSURE REGULATORS
design for glove boxes, 21:22087(P)
design for proportional counter for use on diagnostic rockets, engineering drawings for, 21:28136
design of low-pressure gas, for large area hodoscope, 23:9718(P)

PRESSURE SYSTEMS
see also High-Pressure Systems
barricade design for hazardous, 21:6163 (KAPL-M-6446(Rev.1))
design for studies of Moessbauer effect up to 10 kbar, 23:38150
design for studying properties of superconductors up to 50 kbar, 23:32287
design for testing PM-2A pressure vessel, 21:19390 (WAPD-TM-640)
design of high, to study effects of hydrostatic pressure on hexagonal metals, 22:2274(R) (RPI-3820-1)
design of hydrostatic, for pressure—volume measurements of oil shale and tuff to 5 kbars, 23:33132 (UCRL-50611)
design of pulse, for transducer evaluation, 22:18672 (UCID-15266)
development of hydrostatic, for studying grain growth in alpha plutonium, 21:36865
failure in reactor, acoustic emission testing for incipient, 24:25237
failure in reactor, acoustic emission testing for incipient, 23:26479 (BNWL-997)

PRESSURE TRANSMITTERS
design and testing of liquid metal, standard for, 25:42194 (RDT-C-6-1-T)
fabrication of fluidic circuit type, using bonded niobium laminated foils, 24:34881 (LA-4395)

PRESSURE VESSELS
see also Tanks
see also Vessels
acoustic emission during pressurization of steel, 24:17293
air-flow tests on pressure-suppression type, 21:25665
alloys for Dragon Reactor, development and properties of, 21:14913
alloys for, properties of Inconel 718, 23:6665 (GEMP-1004, pp 275-315)
analysis of prestressed concrete reactor, 21:38463(R) (ORNL-4133)
analysis of prestressed concrete, finite element method for, 21:26123 (GA-7810)
analysis of prestressed concrete, method for strength, 22:33125
anchorage system for prestressed concrete reactor, design of safe, 23:9612 (ORNL-TM-2378)
annealing of SM-1A reactor A350-LF1 steel, description of in-place, 22:53402
behavior of A302B steel, effects of fabrication heat treatments on, 23:989
behavior of model of prestressed concrete, effects of pressure and temperature on structural, 24:11748 (GA-9673)
behavior of reactor prestressed concrete, computer program for evaluation of creep and shrinkage effects on, 23:10313
bibliography on prestressed concrete, 25:57609 (AED-C-1-18)

bibliography on prestressed concrete in nuclear, 21:10217 (ORNL-TM-1675)
bibliography on prestressed concrete in nuclear, 23:16011 (ORNL-TM-1675(Rev.1))
bibliography on reactor prestressed concrete, 23:28456 (AED-C-1-15)
bibliography on reactor steel, 23:28457 (AED-C-1-16)
blowdown in boiling and pressurized water reactor, liquid levels during, (E/T), 24:7159
blowdown in, effects of void fraction on, 23:4286
blowdown of reactor, liquid—vapor actions in coolant loss, 21:17435 (APED-5177)
blowdown tests of, using water at 70 to 540°F and 600 to 2300 psig, 21:7966
book: Analysis of Reactor Vessel Radiation Effects Surveillance Programs, 25:32755
book: Molybdenum's Place in the Pressure-Vessel Field, 24:17255
book: Pressure Vessel Design and Analysis, 22:12499
book: Pressure Vessel Engineering Technology, 25:49346
book: Pressure Vessel Engineering Technology, 25:23277
book: Prestressed Reinforced Concrete in Construction of Nuclear Installations, 24:11200(T) (JPRS-49481)
book: Stresses in Shells of Revolution, 23:13917
brittle failure of, safety assessment of, 21:25630(R) (ORNL-4071)
brittle fracture behavior of, conference on, 21:4895 (EUR-3121.d,f,e)
brittle fracture of, design parameters for protection against, 21:22869(T) (AEC-tr-6857)
burst testing steel, ultrasonic monitoring methods for, 21:19458(R) (BNWL-300)
cables for Marcoule Reactors (G-2) and (G-3) prestressed concrete, performance and maintenance of, 23:21544 (CEA-CONF-1110)
cables for reactor prestressed concrete, tensile properties of high-strength steel, 23:21568
cap cables in Wylfa reactor, protective hydrocarbon compound for, 22:12984
carbon and alloy steel forgings for, standard for quenched and tempered vacuum-treated, 25:42778 (RDT-M-2-7-T)
channels in reactor, description of multiple coolant and instrumentation, 22:30399(P)
characteristics of coilayer, studies of high temperature endurance and low-cycle fatigue, (E/T), 24:25240
cladding for, stress analysis of composite steel plate, 22:28799
cladding materials for, selection and performance of, 23:22457
cladding of EBWR, stress corrosion cracking in, 21:1175 (SwRI-1228-65)
cladding of steel autoclave-type, by explosive bonding of tantalum, 23:16466
cladding of steel, method for stainless steel, 21:32839(R) (EURAEC-1812)
cladding process for, arc strip, 22:15164
closure for reactor, design of shielded, 23:13922(P)
closure for, design of gas-tight, 23:11696(P)
closures for cylindrical, design of optimum stress-relieved, 23:26416
closures for graphite moderated gas cooled reactor prestressed concrete, use of prestressing tendons for securing heat exchanger access, 25:10198(P)
closures for prestressed concrete, description of leak tight prestressed concrete covered metal plate, 23:24055(P)
closures for prestressed concrete, description of dual cover safety, 23:52496(P)
closures for, description of large diameter gasket and plug, 23:40475(P)
closures for, design of, 22:10469(P)
closures of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, design parameters for, 23:40363
coatings for, sorption measurements on, 21:38439(R) (BMI-X-10193)
codes application to reactor systems, IAEA survey of, 21:1174 (STI/DOC-10/56)
components for LMFBR, development program for, 23:2041 (WASH-1103)
components for, methods for fabrication of, 21:22853(T) (AEC-tr-6856)
compressive strengths of prestressed concrete, relations between long- and short-term, 23:10318
concrete for prestressed, effects of high temperatures on, 23:18285 (BMI-1855)
concrete for reactor, effects of high temperatures on strain in, 24:25815
concrete for use in, testing of, 21:28868(R) (BMI-X-10194)
concrete for, physical properties of prestressed, 21:20607 (GA-7440)
concretes for prestressed reactor, properties of, 23:48582 (GA-8305)
concretes for prestressed reactor, properties of heat resistant, 22:28970(R) (BMI-X-10233)
concretes for prestressed, deformation measurements on, 22:10076 (GA-7097(Suppl.))
conference on design and testing of prestressed concrete, 24:16318 (EUR-4280(Vol.1))
conference on development of materials for reactor, Tokyo, July 21 to 25, 1969, 25:45010 (IAEA-117)
conference on model techniques for prestressed concrete, London, July 10 to 11, 1969, 25:29298
conference on technology of, 24:26849
conference on technology of, 24:26848
conference on technology of, Delft, Netherlands, Sept. 29 to Oct. 2, 1969, 25:11357
configuration of 2000 MW(e) Molten Salt Breeder Reactor, design parameters for, 22:48652 (ORNL-4254, pp 50-87)
configuration of cylindrical earthquake-proof circumference-ringed, reinforced concrete, 22:48755(P)
configuration of dumbbell-shaped upright, description of maritime reactor, 22:48716(P)
configuration of Fast Flux Test Facility, description of arrangements 2, 7, and 9, 23:4300(R) (BNWL-880)
configuration of inner skin-sealed C-shaped end-capped multiple-member outer shell, description of, 22:42564(P)
configuration of low-carbon nickel steel-lined heat-insulated prestressed concrete, description of, 22:53478(P)
configuration of maritime reactor water level control, description of interior convex-bottom, 22:50781(P)
configuration of multi-section cylindrical prestressed concrete, description of, 22:39922(P)
configuration of pressurized-water reactor over-and-under dual-sectioned plate-separated, description of, 23:9124(P)
configuration of water-cooled maritime reactor universal joint-connected level-maintaining, description of, 23:7410(P)
configuration of water-cooled reactor concrete hot-liner, description of reference design, 22:44831(T) (ORNL-tr-1966-d)
configuration of water-cooled reactor cylindrical, description of flange-supported multiple coolant conduits in, 23:2001(P)
construction and performance of bilayered prestressed concrete, 24:14871 (EUR-4280(Vol.1), pp 305-39)
construction and testing of prestressed concrete, for reactors, 21:34104 (GA-7097)
construction for gas-cooled graphite-moderated power reactors, standards for steel, 22:30183
construction for water-moderated reactors, 22:32804
construction in U.S.S.R. of gas-cooled reactor prestressed ferro-concrete, 23:21474
construction in USSR of gas cooled reactor prestressed ferro concrete, 24:11200(T) (JPRS-49481)
construction of 472 MW(e) Monticello Power Reactor, field assembly techniques for, 23:43070
construction of 50 MW(e) Dodewaard Power Reactor, description of, 23:9091(R) (EUR-4069)
construction of boiling and pressurized water power reactor, problems of, 23:47149
construction of concrete, for EDF-3 and EDF-4, 21:10149
construction of EL-4, welding problems in, 21:14017
construction of Fort St. Vrain prestressed concrete, 24:16075 (GA-9678)
construction of gas cooled reactor multiple layer prestressed concrete, method for, 24:4046(P)
construction of Hinkley Point 2 and Hunterston Reactors prestressed concrete, 23:37397
construction of laminated steel, for power reactors, 25:31668 (IRS-T-17)
construction of large-scale test model prestressed concrete, planning for, 25:31558 (IAEA-126, pp 85-97)
construction of nuclear power plants, standards for, 25:46223
construction of nuclear, revised standards for, 25:34337
construction of nuclear, revised standards for, 25:34342
construction of nuclear, revised standards for, 25:34341
construction of nuclear, revised standards for, 25:34347
construction of nuclear, revised standards for, 25:34336
construction of nuclear, revised standards for, 25:34340
construction of nuclear, standards for, 25:34343
construction of power reactor, 25:50904
construction of power reactor prestressed concrete, techniques for, 23:21471
construction of prestressed concrete reactor, test model analysis for multi-layer, 25:31549 (EUR-4531, pp 527-56)
construction of prestressed concrete, for advanced gas cooled power reactors, 23:28433
construction of prestressed concrete, for Bugey 1, Fessenheim 1, and St. Laurent 2 reactors, 23:11143
construction of prestressed concrete, for Dungeness B reactors, 23:11142
construction of prestressed concrete, for Fort St. Vrain Power Reactor, 22:30149 (GA-8623)
construction of prestressed concrete, for gas cooled power reactors, 24:45837(T) (ORNL-tr-2356)
construction of prestressed concrete, for gas cooled graphite moderated power reactors, 25:31456 (EUR-4531, pp 129-44)
construction of prestressed concrete, for Oldbury Reactors, 23:11140
construction of prestressed concrete, for operation to 45 bars, 24:35940
construction of prestressed concrete, for power reactors, 25:31552 (EUR-4531, pp 647-89)
construction of prestressed concrete, for Wylfa reactors, 23:11141
construction of prestressed concrete, problems and trends of, 24:52856
construction of prestressed concrete, requirements and techniques for, 24:24822
construction of prestressed concrete, results of scale model, 24:16322 (EUR-4280(Vol.1), pp 355-92)
construction of reactor prestressed concrete, prestressing methods used in, 23:23898
construction of reactor, regulatory criteria standards for, 25:28537
construction of reactor, standards for, 25:43993 (RDT-E-15-2-T)
construction of reactor, use of concrete in, 22:48665
construction of Saxton Reactor, evaluation of multilayer, 23:17210 (DOCKET-50146-5)
construction of site assembled, for Monticello power reactor, 24:16111
construction of steel, for primary containment system of Fukushima Power Reactor, 23:28364
construction of THTR prestressed concrete, description of, 24:16181 (EUR-4280(Vol.1), pp 341-54)
construction of water cooled reactor thermally insulated prestressed concrete, procedures and evaluations for, 24:16321 (EUR-4280(Vol.1), pp 289-303)
construction principles for water-cooled reactor prestressed concrete, 23:23900
construction procedures for water cooled reactor prestressed concrete, section models for testing, 25:31547 (EUR-4531, pp 477-88)
construction using high-grade thick Japanese steel, 22:2620
containment structure for, description of glass filament, 22:37498(P)
control rod openings in, design of closure for, 23:24362(P)
cooling channels for, design of, 22:1837(P)
cooling of reactor, design of heavy water moderator, 21:46915(P)
cooling system for Wylfa Reactor prestressed concrete, corrosion protection of, 23:11147
cooling systems for concrete, design and analysis of, 21:7869 (GAMD-6928)
corrosion in La Crosse Boiling-Water Reactor, corrosion coupons and ultrasonic measurement methods for detecting, 23:15557 (SwRI-1228-P-11-2).
corrosion testing of EBWR, 21:44932(R) (ANL-7371)
cost data for 1000 MW(e) BWR prestressed concrete, description of, 24:16182 (EUR-4280(Vol.1), pp 393-416)
cover for fast reactor, design characteristics of thermal insulated ductile pressure relieving, 25:57058(P)
cover for gas-cooled reactor prestressed concrete, description of removable overhead, 23:28465(P)
cover for reinforced concrete, description of frustum shaped, 25:54301(P)
cover lifting device for, description of liquid-sealed, 22:14329(P)
covers for prestressed-concrete, design of demountable, 25:51252(P)
crack analysis for, elastic and plastic methods of, 22:39892 (AD-663882)
crack detection in Oyster Creek Power Reactor Unit 1, brief description of use of liquid penetrant bleedout volume for, 23:15568
crack failure in prestressed concrete, finite element techniques for simulation of, 23:4277
crack growth in, acoustic emission method for detection of, (E), 22:51190 (BNWL-SA-1772(Pt.1))
crack propagation in heavy section of steels for, 23:22595 (BNWL-790, pp 12.1-66)
crack propagation in prestressed concrete, lumped parameter method for calculation of, 24:24830
cracks in Japanese Power Demonstration Reactor, analysis of hair, 22:30197
cracks in nonmagnetic walls of, design and performance of eddy current device for detection of, 21:32034 (RISO-M-546)
cracks in, acoustic emission method for detecting, (E), 23:4792 (UCRL-71267)
creep at intersection with nozzles, measurement of steady-state, 25:343 (RD/B/N-1668)
creep behavior in thick-walled axisymmetric, use of CRAB computer program for analysis of, 21:43194(R) (STL-517-0049(Vol.2B)(Add.))
creep behavior in thin-walled, computer program for analysis of high temperature, 21:12609(R) (STL-517-0049(Vol.2A))
creep behavior of gas-cooled power reactor prestressed concrete, model analysis of 60°C effects on, 23:7387 (GA-8776)
creep behavior of prestressed concrete, mathematical model of high temperature, 23:10315
creep behavior of thick-walled, finite element method for analysis of, 22:27961
creep in prestressed concrete reactor, effects of reinforced openings on, 25:30024 (EUR-4531, pp 373-84)
creep in prestressed concrete, mathematical analysis of, 22:19011
creep of prestressed concrete reactor, effects of temperature on, (E/T), 25:25976
creep rupture of steel for, 22:28805
creep rupture testing of mild steel, at high temperatures, 23:36092
creep strain and moisture migration measurements in prestressed concrete, 21:39704(R) (BMI-X-10203)
creep strains in reactor prestressed concrete, effects of long-term thermal, 23:11214
creep stress distribution in long cylindrical reactor, analysis of, 25:42842 (CONF-710512-9)
creep tests on silicon-killed boiler plate steels for, at 430°C, 24:12394 (RD/B/M-1482)
damage during reactor excursions, empirical calculation of, 21:27676 (GEAP-5163)
damage to liquid sodium cooled fast reactor, accident analysis for assessment of, 25:6064
defects in heavy-walled, analysis and detection by acoustic emission testing, 25:51742
defects in steel, simulation studies for detection and surveillance of, 25:48283 (BNWL-1554)
defects in, formula for calculating critical length of, 24:17290
deflection in concrete models of, methods for measuring, 25:29301
deformation and stress state in prestressed concrete reactor, calculations for, 25:40114
deformation and stresses at penetrations in concrete, effects of bonded steel reinforcements on, 24:36913
deformation and stresses in, effects of circular wall holes on, 21:23754
deformation measurements of, using strain gages, 21:8140
deformation of low-alloy steel, effects of fatigue on, 22:43570 (RD/B/N-1050)
deformation of prestressed concrete reactor, determination of time-dependent, 21:38765
deformation of prestressed concrete, with complete cicumferential crack, DYNA computer program for calculating time-dependent longitudinal, 25:10753 (GAMD-7567)
deformation under pressure and axial loads, derivation of equations for evaluation of, 24:44171

deformations and stresses at penetrations in concrete, reinforced with bonded steel rings on steel sleeves, 23:38959 (RD/B/N-1151)
depressurization times for gas-filled, with discharge through fractures, 21:45285
description of Beznau Power Reactor, 22:42237
description of central column secured concrete reactor core, with peripheral expansion supports, 22:37574(P)
description of central column secured reactor core with peripheral expansion supports in concrete, 22:37574(P)
description of concentric spherical heterogeneous reactor, 22:20883(P)
description of concrete, with reactor refueling access tubes secured against axial movement, 22:20893(P)
description of coolant tube-lined prestressed concrete, for gas-cooled reactors, 22:3877(P)
description of cylindrical prestressed concrete reactor, with tensioned-cable connected end slabs, 22:25193(P)
description of cylindrical prestressed concrete, with cable-anchored ends, 22:10098(P)
description of cylindrical reactor prestressed concrete, 23:19593(P)
description of dual-wall evacuated space-separated, for pressurized liquid-cooled reactors, 22:14355(P)
description of Hinkley Point-2 prestressed concrete, 22:46971
description of lined prestressed concrete cylindrical, 22:12152(P)
description of liquid-cooled and -moderated reactor sealed and lined prestressed concrete, 23:11195(P)
description of multiple pair, with paired rows of pressure tubes, 22:16242(P)
description of NERVA, 22:22790 (CONF-661204-(Vol.2), pp 91.1-12)
description of prestressed concrete reactor, 22:20964(P)
description of prestressed concrete, for 550 MW integral unit gas cooled reactor, 22:3852
description of prestressed concrete, for Ft. St. Vrain Power Reactor Unit 1, 22:32808
description of prestressed concrete, for gas-cooled reactors, 22:18625(P)
description of prestressed concrete, for Oskarshamn Power Reactor, 23:4149
description of prestressed concrete, for reactor core, 22:6049(P)
description of reactor cylindrical, with prefabricated prestressed concrete segments, 23:2151(P)
description of reactor, with enclosed steam generator, 22:33118(P)
description of reinforced concrete, for reactor, heat exchanger, and moderator tank, 22:12067(P)
description of reinforced concrete, for reactor, heat exchanger, and moderator tank, 22:12068(P)
description of Scandinavian prestressed concrete, 22:22718
description of spherical, for integral reactors, 22:25179(P)
description of twin-wall gas cooled high pressure, 22:16235(P)
description of two-region thermal barrier-separated, with upper region surge tank, 22:22887(P)
description of water-separated multi-layer concrete, with unstressed inner shell and prestressed outer shell, 22:14313
description with magnetically fastened pre-selected pressure rupture ports, 22:20967(P)
description with water—sealed gas—insulated inner wall for water cooled reactors, 22:20891(P)
design analysis of Halden Boiling Reactor, detailed, 22:35463 (HPR-95)
design and analysis of concrete, for 250 MW(e) heavy water, pressure tube reactor, 21:4650
design and construction of prestressed-concrete, French regulations concerning, 21:32037(T) (ORNL-tr-1678)
design and development in Europe and UK, review on, 25:22071
design and development of large, for use in chemical and nuclear engineering, 25:44482 (CONF-701211-2)
design and fabrication for reactors, 22:27450
design and fabrication of, 21:30183
design and fabrication of, 23:36090
design and fabrication of prestressed concrete, for water-cooled reactors, 22:27436
design and fabrication of prestressed concrete, for reactors, 21:34105 (GA-7150)
design and fabrication of steel, for nuclear power plants, organizational and technical requirements for, 25:37933
design and fabrication of, for Lingen reactor, 21:12162
design and materials for European water reactors, data compilation on, 21:25622 (DANATOM-01-67)
design and operation of retort-type, for sodium testing, 23:41542(R) (MSAR-69-102)
design and performance of concrete and steel, for reactors, 21:5635
design and performance of Japanese reactor, 22:30805
design and performance of metal, for water-cooled reactors, 22:19600
design and safety analysis of reinforced concrete, 21:23707
design and testing of EDF-3 and EDF-4, 21:10168
design and testing of prestressed concrete, criteria for, 24:51243
design and testing of prestressed concrete, for BUGEY I reactor, 21:14019
design and testing of SNAP-21, 22:2309(R) (MMM-3691-23)
design and testing of SNAP-21, 22:42973(R) (MMM-3691-35)
design and testing of SNAP-21, 22:19045(R) (MMM-3691-26)
design and testing of steel, for reactors, 22:27499
design calculations for reactor, techniques for, 22:3946
design characteristics for prestressed concrete, review of, 23:28375
design characteristics of integrated 600 MW(e) heavy water moderated reactor prestressed concrete, 23:28470
design characteristics of prestressed concrete, 24:49981
design characteristics of prestressed concrete, with steel lines, 25:57203(P)
design characteristics of rock shaft mounted prestressed concrete, for power reactors, 25:60071(P)
design characteristics of THTR prestressed concrete, general, 23:21439
design codes and standards in U.S. for liquid metal cooled fast breeder reactor, 25:20723 (SAN-781-217)
design concepts for FFTF, evaluation of annular inlet and piped bottom inlet, 23:45103 (BNWL-1011)
design concepts for, fracture mechanics approach to fracture-safe, 21:38748
design concepts for, transition temperature approach to fracture-safe, 21:38747
design criteria and quality control for gas-cooled reactor prestressed concrete, 22:22855 (GA-8511)
design criteria for nuclear, 21:19824
design criteria for power reactor primary prestressed concrete, comparison of Europe and U. S, 23:40352
design criteria for prestressed concrete, 21:21802 (GA-7460)
design criteria for prestressed concrete, effects of reactor coolant conditions on, 23:11226
design criteria for prestressed concrete, for gas-cooled power reactors, 23:11229
design criteria for reactor prestressed concrete, review of U.S, 25:31554 (IAEA-126, pp 19-51)
design criteria for steel, effects of mean stress on, 24:25714
design criteria for, AEC proposed, 22:22884
design for 10,000 MW BWR, 21:40555 (GECR-5155)
design for 1000 MW(e) BWR prestressed concrete, description of, 24:16182 (EUR-4280(Vol.1), pp 393-416)
design for electrochemical studies at high pressures and temperatures, 25:29779
design for explosive gas mixtures, effect of detonation wave reflection on, (T), 22:12168 (KAPL-M-7026)
design for Fort St. Vrain Reactor prestressed concrete, 21:38447(R) (GA-6830)
design for helium-cooled high-temperature reactors with boiler units in vessel walls, 23:11231
design for high magnetic field hydrogen bubble chamber at NIMROD, 21:39186 (RHEL/S-101)
design for hot isostatic pressing, 23:35365 (Y-1683)
design for irradiation of organic substances, 23:6186
design for large nuclear power plants, review of trends in, 21:25688
design for Oskarshamn Power Reactor, 21:46884
design for pressurized-fluid reactors, 21:35637(P)
design for radioisotope-fueled Rankine cycle power system, 24:46436(R) (ORNL-TM-3099)
design for reactors in Sweden of, 23:13438
design for small marine reactors, 21:46931(P)
design for SNAP-21, 21:39128(R) (MMM-3691-20)
design for SNAP-21, 24:46432 (MMM-3691-62)
design for SNAP-21 thermoelectric power generator, 21:30630(R) (MMM-3691-17)
design for studying in-pile radiation effects on corrosion of zirconium alloys by hot water, 23:12273
design in U.K. of power reactor, 23:34945 (CONF-680625-8)
design in USSR of prestressed ferro concrete, 24:11200(T) (JPRS-49481)
design limits of Fort St. Vrain prestressed concrete, working stress factors and, 23:28397
design of 1.2 cm thick tungsten clad tantalum, with cooling system, 24:24894
design of 1000 MW(e) prestressed concrete reactors, optimum, 22:25009
design of calandria, with standpipe terminated pressure tubes, 22:14362(P)
design of carbon dioxide cooled power reactor carbon—manganese steel, 24:28879
design of circular shaped prestressed concrete, 25:1969(P)
design of concrete reactor, for use in multiaxial stress fields, 25:30025 (EUR-4531, pp 385-407)
design of concrete, for EL-4, 21:10148
design of concrete, for reactor core and pressure suppression containment, 25:10169(P)
design of concrete, mechanical engineering aspects of, 22:6045
design of concrete, using TEMPER code, 21:12175
design of cylinder shaped prestressed reinforced concrete, 25:28823(P)
design of cylindrical prestressed concrete, for high-temperature gas-cooled pebble-bed power reactor, 23:11207
design of cylindrical prestressed concrete, with large opening for servicing reactor internals, 25:1887(P)
design of earthquake resistant, 25:25950
design of EBR-2, for optimum heat transfer, 21:44891
design of FFTF reactor, conceptual, 23:17643(R) (BAW-1280-57)
design of gas cooled power reactor prestressed concrete, effects of pod boilers on, 23:28474
design of gas cooled reactor prestressed concrete with split chambers for coolant diversion, 24:9104(P)
design of gas cooled reactor prestressed concrete, with provision for heat exchanger, 25:15364(P)
design of gas-cooled reactor prestressed concrete, 22:18625(P)
design of graphite-moderated reactor, effects of concentric annular coolant gas conduits on, 22:1837(P)
design of heated cylindrical, in transient creep, 24:5775
design of integral reactor, with coolant penetrations in separable module of, 23:37495(P)
design of large prestressed concrete, (E), 22:19007(T) (ORNL-tr-1877)
design of light water power reactor, development of, 22:44841 (WASH-1082)
design of metal-lined concrete, with fluid-tight seals, 22:12511(P)
design of metal-lined prestressed concrete, for restricted heat transfer in liquid cooled and moderated reactors, 21:12205(P)
design of Nine Mile Point Power Reactor, allowing for contraction and expansion, 21:38604
design of Oldbury reactor prestressed concrete, mathematical and computer techniques in, 23:11134
design of Oldbury reactor prestressed concrete, rupture criteria used in, 23:11135
design of operationally safe reactor, 22:30804
design of podded boiler types prestressed concrete, for nuclear power plants, (E/T), 25:56885
design of power plant, elastic—plastic method for, 22:42936 (RD/B/N-1105)
design of power reactor, problems and requirements for standardization of, 24:18607
design of prestressed concrete, 21:19825(P)
design of prestressed concrete, 21:27842(P)
design of prestressed concrete, 24:30969
design of prestressed concrete, 21:46975(P)
design of prestressed concrete and steel laminated, for pressurized water reactors, 25:1882(P)
design of prestressed concrete reactor, 21:23752
design of prestressed concrete reactor, uses of models in, 25:29307
design of prestressed concrete, effect of temperature distribution in walls on, 23:11221
design of prestressed concrete, for 1000 MW(e) BWR, 21:17441(R) (EURAEC-1553)
design of prestressed concrete, for 1000 MW(e) BWR, 21:34103(R) (EURAEC-1789)
design of prestressed concrete, for 1000 MW(e) BWR, 21:12145 (GEAP-5201)
design of prestressed concrete, for 1000 MW(e) BWR, 21:17444(R) (EURAEC-1688)
design of prestressed concrete, for 1000 MW(e) BWR, 22:24999
design of prestressed concrete, for 600 MW(e) heavy water reactors, 22:30234
design of prestressed concrete, for boiling water reactors, 22:19004 (EURAEC-1943)
design of prestressed concrete, for boiling water reactors, 21:13974(R) (GEAP-5086)
design of prestressed concrete, for containment of test explosions, 21:10226(P)
design of prestressed concrete, for gas cooled graphite moderated power reactors, 25:31456 (EUR-4531, pp 129-44)
design of prestressed concrete, for heavy water moderated and cooled power reactor, 25:56989
design of prestressed concrete, for high pressure gas-cooled reactors, 22:12471 (AAEC/TM-390)
design of prestressed concrete, for nuclear reactors, 21:17768(P)
design of prestressed concrete, for operation to 45 bars, 24:35940
design of prestressed concrete, for use in boiling water reactors, 21:13976(R) (GEAP-5151)
design of prestressed concrete, or 600 MW(e) water reactors, 25:31551 (EUR-4531, pp 615-45)
design of prestressed concrete, problems and trends of, 24:52856
design of prestressed concrete, safety aspects of, 24:24687
design of prestressed concrete, use of releasable couples for multiple ring arranged cables in, 23:28462(P)
design of reactor combined concrete biological shield and, with enclosed boiler, 23:52346(P)
design of reactor multilayered thick-walled prestressed concrete, 24:16180 (EUR-4280(Vol.1), pp 225-51)
design of reactor prestressed concrete, practical and economic aspects of, 23:11225
design of reactor prestressed concrete, review of criteria for, 24:26767
design of reactor prestressed concrete, use of models in analysis of, 23:11211
design of reactor prestressed concrete, with uniform distribution of stresses from lid to wall, 25:60069(P)
design of reactor, stress calculations for, 25:31564
design of reactor, use of models in, 21:2824 (GA-6949)
design of reactor, with prestressed concrete walls and steel cover, 25:60258(P)
design of reactor, with thin steel shells surrounded by bolted stacks of metal rings, 25:60070(P)
design of reinforced concrete, for nuclear reactors, 21:44903(P)
design of reinforced concrete, for reactors, 21:23681(P)
design of spherical, determination of stress distribution for, 21:1489 (ORNL-TM-1634)
design of spherical, for reactors, 21:32043(P)
design of steam-heated, for fabrication of plastic powder-pressing bags, 21:18360 (Y-1574)
design of steel ring-wire reinforced prestressed concrete reactor, 25:29939 (EUR-4531, pp 433-44)
design of steel, for water-cooled reactors, 22:10082 (ORNL-NSIC-21)
design of support for high-pressure and high-temperature, 21:1499(P)
design of Swedish, 22:1807
design of Tsuruga Power Reactor, 22:32855
design of two chamber gas cooled reactor concrete, 24:36023(P)
design of water-cooled reactor, radiation damage factors in, 21:46969
design of Wylfa reactor prestressed concrete, correlation of theoretical and model analysis of, 23:11132
design of Wylfa reactor prestressed concrete, elastic analysis method and computer program for use in, 23:11136
design of, finite element method for, (T), 25:18257
design of, for BUGEY I reactor, 21:14018
design of, for Dutch reactors, 21:12194
design of, for power reactors, 21:2861(P)
design parameters for Bohunice Power Reactor Unit 1 carbon steel, 23:26002 (ZJE-36)

design parameters for Bugey Reactors (EDF-5) prestressed concrete, 24:11102(T) (ORNL-tr-2250)
design parameters for carbon steel, for gas-cooled heavy water-moderated natural uranium fueled power reactors, 23:26002 (ZJE-36)
design parameters for conceptual 1000 MW(e) high temperature gas cooled reactor prestressed concrete, analysis of optimum, 23:45068 (GA-8439(Rev.))
design parameters for conceptual 1000 MW(e) LMFBR, 24:4024 (BAW-1328(Vol.2))
design parameters for cylindrical steel, computer program for optimum, 23:15748
design parameters for Fort St. Vrain prestressed concrete, 23:37378 (GA-8795)
design parameters for gas cooled reactor triple chambered integral prestressed concrete, 23:43108(P)
design parameters for Hinkley Point 2 and Hunterston Reactors prestressed concrete, 23:37397
design parameters for large pressurized water reactor, 23:28394
design parameters for prestressed concrete, for Fort St. Vrain Power Reactor Unit 1, 23:43063
design parameters for prestressed concrete, for gas cooled power reactors, 25:53900 (A/CONF.49/P-469)
design parameters for prestressed concrete, model analysis for optimum, 23:40468
design parameters for prestressed concrete, with enclosed cylinder shaped turbine recesses, 24:4179(P)
design parameters for reactor dual-layer load-carrying prestressed concrete, 23:21576
design parameters of 1000 MW(e) high temperature gas cooled reactor prestressed concrete, 24:52852 (GA-9400(Vol.1))
design parameters of BN-350 Reactor, 24:13510
design parameters of cast iron, 25:37153(P)
design parameters of cylinder shaped prestressed concrete, 25:39352(P)
design parameters of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, 24:9063
design parameters of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, 24:9058
design parameters of FTR, conceptual, 24:16231 (BNWL-500(Vol.32))
design parameters of gas cooled reactor prestressed concrete, 25:20557
design parameters of Hartlepool Power Reactors prestressed concrete, 24:9050
design parameters of liquid sodium cooled power reactor, 24:52754
design parameters of prestressed concrete, 25:26078(P)
design parameters of prestressed concrete, 24:50107(P)
design parameters of prestressed concrete, for gas cooled graphite moderated power reactors, 25:31454 (EUR-4531, pp 81-94)
design parameters of prestressed concrete, for gas cooled and water cooled reactors, 25:31550 (EUR-4531, pp 601-13)
design parameters of steel lined prestressed concrete, 24:53006(P)
design requirements for prestressed concrete, analysis of limit state, 25:5981 (RISO-214, pp 289-300)
design requirements for prestressed concrete, for gas cooled reactors, 25:54147 (A/CONF.49/P-475)
design requirements in U.K. for power reactors, 25:53941 (A/CONF.49/P-474)
design requirements of liquid sodium cooled fast reactor, 24:52780
design requirements of prestressed concrete, for high temperature gas cooled reactors, 25:18134
design requirements of steel, for boiling and pressurized water reactors, 25:10197
design safety criteria for FTR, revised, 24:18695 (BNWL-823)
design safety recommendations for France power reactors prestressed concrete, analysis of, 22:44832(T) (ORNL-tr-1966-e)
design specifications and drawings for Fast Test Reactor, conceptual, 23:13411 (BAW-1280-49(Vol.2))
design with vertical axial plate dividers for coolant loss prevention, 22:10029(P)
design, fabrication, and inspection of prestressed concrete, literature review on, 22:27953 (ORNL-4227)
design, fabrication, and inspection of steel, 22:30800
design, fabrication, and testing of heavy-section corrosion-resistant steel, methods for, 24:21363
design, fabrication, and testing of heavy-section steel reactor, Industry-Cooperative Program for research on, 24:25661
design, fabrication, and testing of multilayer steel, 24:25174
design, fabrication, and testing of SNAP-21, 23:24388(R) (MMM-3321-19)
design, fabrication, and testing of, discussions and lectures on, 25:11357
design, fabrication, testing, and certification of nuclear, ASME specifications for, 22:37920
designs for prestressed concrete, safety features and requirements for, 23:2061
designs of Fast Test Reactor, description of annulus-sodium-inlet-type and downcomer-sodium-inlet-type, conceptual, 23:13410 (BAW-1280-49(Vol.1))
designs of prestressed concrete, for heavy water-moderated gas-cooled reactors, 22:1790
designs of prestressed concrete, summary of problems associated with corrosion protection of tendons in, 23:2061
development for high-pressure neutron diffractometer, 23:12957(R) (COO-1439-2)
development for liquid sodium fast reactors, 22:18503
development for powder metallurgical studies on nitrides, 23:36249
development for power reactors, review of, 25:8065 (BNWL-SA-3427)
development for SNAP-21, use of titanium alloys in, 21:30629(R) (MMM-3691-6)
development for sodium—water reaction-induced reactor tube corrosion, 21:7857(R) (APDA-195)
development in France of power reactor prestressed concrete, review of, 24:28878
development in Germany of prestressed concrete reactor, 25:31662 (EUR-4531, pp 59-71)
development in Sweden of prestressed concrete, for boiling water power reactors, 25:31548 (EUR-4531, pp 507-16)
development in U. S. of prestressed concrete, review of, 23:15596
development of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, 23:15553 (GA-9016)
development of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, 23:28375
development of heat-resistant prestressed concrete, 22:15267(R) (BMI-X-10220)
development of heat-resistant prestressed concrete, for reactors, 22:8248(R) (BMI-X-10215)
development of high temperature gas cooled power reactor prestressed concrete, 24:24821 (ORNL-4508, pp 113-58)
development of high temperature gas-cooled power reactor prestressed concrete, 23:28460 (ORNL-4353, pp 141-278)
development of high temperature gas-cooled reactor prestressed concrete, 21:38450(R) (GA-7181)
development of laminated steel, for power reactors, 25:31668 (IRS-T-17)
development of large power reactor, 24:46042
development of multi-layer prestressed concrete, for large power reactors, 23:2006
development of power reactor prestressed concrete, comparison of one and two wall models for optimum, 24:26761
development of prestressed concrete, 21:19381(R) (ORNL-4036)
development of prestressed concrete containment, for gas-cooled power reactors, 21:46847 (EURFNR-367)
development of prestressed concrete reactor, 25:19297
development of prestressed concrete reactor, conference on, 25:31546 (EUR-4531)
development of prestressed concrete reactor, review of, 24:13641
development of prestressed concrete reactor, review of, 25:30019 (EUR-4531, pp 27-58)
development of prestressed concrete reactor, review of, 24:11118
development of prestressed concrete, during July 1968 to June 1969, (E/T), 24:18790(R) (GA-9488)
development of prestressed concrete, for advanced converter reactors, 21:38454 (GAMD-7867)
development of prestressed concrete, for boiling reactors, 21:21635(R) (GEAP-5195)
development of prestressed concrete, for boiling reactors, 25:54070 (A/CONF.49/P-307)
development of prestressed concrete, for boiling water reactors, 24:9097
development of prestressed concrete, for Fort St. Vrain Power Reactor, 21:38451(R) (GA-7314)
development of prestressed concrete, for gas cooled reactors, 25:10166 (GA-10265)
development of prestressed concrete, for gas cooled reactors, 24:45856
development of prestressed concrete, for large nuclear power stations, 23:11232
development of prestressed concrete, for reactors, 21:17541
development of prestressed concrete, for water cooled reactors, 25:12788
development of prestressed concrete, in the United Kingdom, 22:6186
development of prestressed concrete, review of, 23:47200
development of reactor prestressed concrete, in Czechoslovakia, 25:31561 (IAEA-126, pp 179-212)
development of reactor prestressed concrete, in Germany, 25:31560 (IAEA-126, pp 115-77)
development of reactor prestressed concrete, in Sweden, 25:31562 (IAEA-126, pp 213-41)
development of reactor prestressed concrete, in United Kingdom, 25:31555 (IAEA-126, pp 53-9)
development of reactor prestressed concrete, in Yugoslavia, 25:31556 (IAEA-126, pp 61-8)
development of reactor prestressed concrete, joint Scandinavian project for, 24:26766
development of reactor prestressed concrete, review of conference on, 24:31061
development of reactor prestressed concrete, review in France of, 25:31557 (IAEA-126, pp 69-83)
development of reactor prestressed concrete, review of, 25:28684
development of reactor prestressed concrete, review of, 25:18127
development of reactor prestressed concrete, scale model testing for, 25:31559 (IAEA-126, pp 99-114)
development of reactor prestressed concrete, trends in, 25:23282
development of steel cylindrical reactor, 22:3936 (ZJE-9-67)
development of steel reactor, 24:19381(R) (ORNL-4512)
development of steel, in Japan, 25:40062 (IAEA-117, Paper 1)
development of water cooled reactor, HSST program for, 25:26008
development of water cooled reactors, 25:8045
development program for prestressed concrete, description of testing studies in, 22:33099 (ORNL-TM-2179)
development programs for prestressed concrete, comparison of Europe and U. S, 22:48775
disassembly of PM-2, remote equipment for, 22:4410
drying patterns in prestressed concrete, use of embedded moisture gages for indication of, 23:9818
ductile-brittle transition temperatures for shell, flanges, top head, and welds of EBOR, 21:28747 (GAMD-5638)
ductility of reactor steel, effects of neutron fluence on through-thickness, (E), 25:41589
ductility of SM-1A, effects of in-place annealing on, 23:5086
ductility of Yankee Power Reactor type A-302-B steel, neutron radiation effects on, (E/T), 22:35413 (AD-661803)
ducts for concrete, description of water-cooled vermiculite-insulated open-ended access, 22:37606(P)
earthquake-proof characteristics of reinforced concrete, 22:3854
economics and feasibility evaluation for simulated stress-testing of large-scale prestressed concrete, 23:15739 (ORNL-TM-2390)
economics of prestressed concrete, for heavy water-moderated gas-cooled reactors, 22:1790
effects on costs of nuclear power production, 22:44841 (WASH-1082)
elastic analysis of Dungeness B reactor prestressed concrete, 23:11133
elastic analysis of model of spherical prestressed concrete, 23:11215
elastic coefficients for, penetrated by many radial holes, equations to determine, 21:32339 (TID-23886)
elastic properties of penetrated upper slab of high temperature gas cooled power reactor prestressed concrete, 23:28469
elasticity of reactor, matrix displacement method for three dimensional calculations of, 25:31667 (EUR-4531, pp 777-95)
electric connectors for prestressed concrete reactor, testing of hermetic, 23:2459 (GAMD-8012)
embrittlement by neutrons, fabrication and operation techniques to prevent, 21:38746
embrittlement of Dodewaard Power Reactor steel, surveillance system for effects of operation on, 23:52290
embrittlement of irradiated types 4340 and 212-B steel, effects of hydrogen on, 21:34940
embrittlement of steel for, effect of plastic fatigue on, 22:2609 (EURAEC-1892)
end caps for reactor prestressed concrete, two-dimensional time-dependent deformation analysis of perforated, (E/T), 25:56985
end closures for large, fabrication method for, 21:41068
end slabs for prestressed concrete, analysis of ultimate strength of, 23:33293 (NP-17904)
end slabs for prestressed concrete, pressure testing to failure of, 25:29304
end slabs for prestressed concrete, pressure testing of, 22:12485
end slabs for prestressed concrete, testing under external load and thermal stress of, 25:29306
end slabs for reactor prestressed concrete, overload and ultimate load behavior of, (E/T), 25:56986
end slabs of prestressed concrete, effects of penetrations on shear strength of, (E/T), 25:54292 (UILU-ENG-71-2019)
enlargement of reactor, research on, 22:3945
evaluation for gas-cooled fast breeder reactor prestressed concrete, 22:35466 (KFK-689)
evaluation of chromium—molybdenum—nickel maraging steel, 23:6665 (GEMP-1004, pp 275-315)
evaluation of prestressed concrete, for gas-cooled fast breeder reactors, 22:35466 (KFK-689)
experimental investigations on concretes and liners for prestressed concrete, description of, 23:2147
explosion of, estimation of blast pressures produced by, 21:6163 (KAPL-M-6446(Rev.1))
fabrication and assembly of Monticello Power Reactor, experience with quality assurance, field welding, and field machining during on-site, 23:28399
fabrication and operation of steel, embrittlement effects on, 22:30807
fabrication and testing of Berylco 165, for SNAP-21, 23:7695(R) (MMM-3691-39)
fabrication and testing of full-size steel model, for power reactors, 24:25179
fabrication and testing of heavy-section steel, review of methods for, 25:665
fabrication and testing of SNAP-21, 22:36000(R) (MMM-3691-30)
fabrication and testing of, methods for, 25:45007 (CONF-701211-1)
fabrication and welding methods for reactor, 25:22033
fabrication criteria for prestressed concrete, for power reactors, 22:37455
fabrication for reactor atmosphere cleanup systems, 22:28037(R) (NYO-841-12)
fabrication for reactors, 22:7915 (NUCLEX-66)
fabrication methods for high-pressure chemistry, petrochemistry, and reactor, 21:41074
fabrication methods for Hinkeley Point-2 Reactors, 22:46947
fabrication of A302B steel, performance of electroslag welding in, 24:4742
fabrication of Bugey Reactors (EDF-5) prestressed concrete, description of double layer, 24:11102(T) (ORNL-tr-2250)
fabrication of carbon dioxide cooled power reactor carbon—manganese steel, 24:28879
fabrication of concrete reactor, 23:1025
fabrication of concrete reactor, specifications for, 21:15788(T) (ORNL-tr-1466)
fabrication of cylindrical multiwalled metal, with or without prestressing, hydraulic pressure method for, 24:25178
fabrication of deep-drawn tantalum alloy T-111, 22:47289 (AI-AEC-12712)
fabrication of Dodewaard Power Reactor, during 1967, 23:19397(T) (AEC-tr-7032)
fabrication of double bottomed stainless steel, for EL-4 power reactor, 22:2279(T) (WAPD-Trans-76)
fabrication of first Czechoslovakian nuclear power plant, 22:7811 (NUCLEX-66, Paper 3)
fabrication of Fort St. Vrain prestressed concrete, 21:38449(R) (GA-6950)

fabrication of Fukushima Power Reactor Unit 2, stainless steel selection for, 23:28374
fabrication of gas cooled power reactor steel, 24:28880
fabrication of gas cooled reactor prestressed concrete, 25:20557
fabrication of Halden Boiling Reactor, 24:20475 (HPR-119)
fabrication of heavy water-cooled and -moderated boiling reactor prestressed concrete, description of, 22:30266
fabrication of heavy-section steel, materials evaluation program for, 23:3012(R) (ORNL-4315)
fabrication of high-temperature power reactor prestressed concrete, state-of-the-art for, 23:15603(T) (ORNL-tr-3010)
fabrication of laminated steel, calculations for, 22:30354
fabrication of large reactor, on-site, 21:21677
fabrication of large steel, description of design stress analysis and quality control for, 23:21573
fabrication of large, ASME Boiler and Pressure Vessel Code for quality assurance in, 23:26435
fabrication of metal-lined concrete, use of flexible connector members and cooling pipes in, 22:37595(P)
fabrication of model prestressed concrete, 24:20554 (TID-25367(Vol.2))
fabrication of model prestressed concrete, 24:20553 (TID-25367(Vol.1))
fabrication of Monticello Power Reactor, quality assurance program for field, 23:33341 (CONF-690609-10)
fabrication of multi-section steel, with ferro-concrete top, 22:14344(P)
fabrication of nuclear, U.S. requirements for, 25:37144
fabrication of Obrigheim reactor, special features of, 23:15589
fabrication of power reactor, 25:50904
fabrication of power reactor, requirements for efficient, 24:38526
fabrication of prestressed concrete, 21:25696(P)
fabrication of prestressed concrete power reactor, description of double layer, 24:11102(T) (ORNL-tr-2250)
fabrication of prestressed concrete, by wrapping with wire cables, 24:16748(P)
fabrication of prestressed concrete, for advanced gas-cooled power reactors, 23:28433
fabrication of prestressed concrete, for G2 and G3 reactor containment, 21:31952(T) (ORNL-tr-1691)
fabrication of prestressed concrete, for Oldbury Reactor, 21:34140
fabrication of prestressed concrete, for power reactors, 22:27437
fabrication of prestressed concrete, for reactors, 21:43100(P)
fabrication of prestressed concrete, prestressing method for, 24:47851(P)
fabrication of prestressed concrete, techniques for, 23:47200
fabrication of prestressed lamellar stainless steel, 24:42077(P)
fabrication of reactor steel, size limitations in, 25:51027 (EUR-4363)
fabrication of reactor, effects of inspection standards on, 25:44110 (CONF-700224-, Paper 5)
fabrication of reactor, experience and methods of, 21:12169
fabrication of reactor, international survey of codes for, 25:39231
fabrication of reactor, nondestructive testing methods for materials during, 24:14211
fabrication of reactor, procedures for on-site, 25:25851
fabrication of reactor, properties of welds used in, 22:634
fabrication of reactor, quality assurance requirements for site assembly, 24:24688
fabrication of reactor, review of safety standards for, 23:19488
fabrication of reactor, use of welding for, 22:633
fabrication of reactor, welding methods for, 21:30297
fabrication of SNAP-21A, 22:23222(R) (MND-3322-25(Vol.1))
fabrication of stainless steel LMFBR, welding methods for, 24:32366
fabrication of stainless steel, description of forging and welding, 22:39797
fabrication of steel reactor, research and testing for, 23:36032 (ZJE-37)
fabrication of steel reactor, review of US methods for, 25:27196
fabrication of steel reactor, welding methods for, 25:29788 (ZJE-69)
fabrication of steel, for Dodewaard reactor, 24:9070
fabrication of steel, for water-cooled reactors, 22:10082 (ORNL-NSIC-21)
fabrication of steel, problems with, 25:20555
fabrication of steel, quality control in, 24:44688
fabrication of steel, quality control techniques for, 22:16228
fabrication of steel, testing program for, 25:11364
fabrication of thick-section ASTM A533 steel reactor, 23:8168 (ORNL-4370, pp 175-8)
fabrication of thick-section ASTM A533B steel reactor, history of, 24:14661 (ORNL-4313-2)
fabrication of Tsuruga Power Reactor, 22:32855
fabrication of, advantages of forging for, 21:12203
fabrication of, for research ship Otto Hahn, 21:12172
fabrication of, for testing metals at high temperature and pressure, 21:6159(T) (AD-639160)
fabrication of, use of prestressed concrete for, 21:30086 (AED-C-01-14)
fabrication problems of stainless steel, description of Fukushima Power Reactor Unit 1, 22:53326
fabrication processes for reactor, 25:31564
fabrication techniques and requirements for Europe power reactors, description of, 23:2044
fabrication techniques for Bohunice Power Reactor Unit 1 carbon steel, 23:26002 (ZJE-36)
fabrication techniques for carbon steel for gas-cooled heavy water-moderated natural uranium fueled power reactor, 23:26002 (ZJE-36)
failure behavior of reactor prestressed concrete, 23:10316
failure behavior of, statistical evaluation of, 23:21505 (IRS-I-34(1968))
failure characteristics of prestressed concrete, (E), 25:23414 (CEA-CONF-1731)
failure detection for reactor, stress-wave emission technique for incipient, 23:9173
failure from fracture in, fabrication and operation techniques to prevent, 21:38746
failure in Czechoslovakia of power reactor low carbon steel, analysis of brittle fracture, 23:26043
failure in welded, design criteria for minimizing fatigue, 24:25242
failure mechanisms and performance of steel, review of, 22:30802
failure mechanisms of Dungeness B reactor prestressed concrete, ultimate load analysis of, 23:11137
failure of 30-inch-ID, brittle fracture, 25:31757 (Y-1758)
failure of British reactor, prior to and during operation, survey of, 23:26398 (AHSB(S)R-162)
failure of end slabs in prestressed concrete, lumped-parameter analysis of, 25:2411 (TID-25573)
failure of flawed, method for prediction of, 24:25177
failure of large steel, effects of fatigue cracks, strain aging, and fracture toughness on, 23:22518 (RD/B/N-1295)
failure of large steel, mechanisms of, 23:43976
failure of longitudinally flawed, formula for calculating, 24:17292
failure of PM-2A reactor A350-LF3 steel, mechanical properties analysis for, 22:42196 (NRL-6739)
failure of PM-2A, controlled destructive testing for, 21:44845 (IN-1112)
failure of prestressed concrete, acoustic emission techniques for detection of incipient, 24:4050 (ORNL-4424, pp 101-241)
failure of prestressed concrete, effects of end slab penetrations on shear, (E), 24:50101 (CONF-700401-, pp 387-402)
failure of prestressed concrete, model tests on, 24:4050 (ORNL-4424, pp 101-241)
failure of prestressed concrete, model tests on, 25:48260(R) (ORNL-4637)
failure of prestressed concrete, model tests on, 25:5990(R) (ORNL-4589)
failure of reactor steel, probability analysis of, 24:50105
failure of reactor, acoustic emission system for detection of incipient, 24:46035 (IN-1398)
failure of reactor, analysis of fatigue and fracture, 25:39344 (CONF-710512-7)
failure of reactor, bibliography on in-service, 24:26750 (CEA-Bib-79(Add.1))
failure of reactor, effects of coolant loss conditions on stress, 24:24861 (NP-18198)
failure of reactor, melt-through studies for predicting, 21:46906
failure of reactor, stress wave emission techniques for detection of incipient, 25:44137 (CONF-700224-, Paper 3)
failure of steel, effects of neutron radiation and size on brittle, 25:54072 (A/CONF.49/P-548)
failure of thick wall steel, characteristics of crack, (E/T), 24:38590 (BNWL-1397)
failure of thick-section welded steel, plane-strain fracture mechanics of, 24:17286
failure of water cooled reactor, reactivity accident requirements for, (E), 24:36065(R) (IN-1370)
failure of, stress-wave analysis technique for detection of incipient, 22:16313 (CONF-671011-, pp 127-62)
failure testing of cylinder shaped prestressed concrete, stress wave emission, (E), 23:52482 (AGC-4190)
failure testing of gas-cooled reactor prestressed concrete, scale-model, 23:21473
failure testing of large multilayer steel, instrumentation for, 24:13524(T) (ORNL-tr-2244)
failure testing of model prestressed concrete, 24:20553 (TID-25367(Vol.1))
failure testing of model prestressed concrete, 24:20554 (TID-25367(Vol.2))
failure testing of PM-2A reactor, analysis of fatigue crack and fracture, (E), 22:35414 (AD-663133)
failure testing of reactor prestressed concrete, under internal gas pressure, 25:56992
failure testing of reactor, review of Italian studies on, 25:40070 (IAEA-117, Paper 7a)
failure testing of through and flush-type nozzles for, analysis of high stress and low cycle, 22:53465
failure time as a function of degree of core disassembly, 21:44843(R) (IDO-17239)
failure under yielding conditions, fracture mechanics of, 23:36104
failures in nuclear power plants, bibliography on, 22:3816 (CEA-Bib-79)
failures of, relations with weld integrity, 25:45032
fatigue analysis of reactor, European techniques for, 24:52947 (EUR-4467)
fatigue of low-strength steel, measurement of, 24:25243
fatigue strength of full-size, cyclic pressure tests of, 21:12610 (SwRI-1228-I-29)
fatigue strength of steel, effect of cyclic pressures on, 21:28757(R) (SwRI-1228-P-1-37)
fatigue strength of steel, effect of fast fracture on, 21:28757(R) (SwRI-1228-P-1-37)
fatigue strength of, effects of crack initiation and propagation on, 21:16084 (SwRI-1228-1-36(Pt.2))
fatigue testing of, with various nozzle configurations, 21:10556
flange joint design for large, for nuclear reactors, 21:43113(P)
flange joints for large, pretightening procedures for, (E/T), 25:10096 (ZJE-65)
flange joints for, equipment and method for pretightening of large, 24:25173
flanges and gaskets for reactor, deformation of large-diameter, (E/T), 24:25175
flanges for reactor, design of bolted joints for, (T), 24:47973 (ZJE-61)
flanges for, design of, 23:47674(P)
flanges on reactor, systematic bolt tightening procedure for, 24:26763
flaw detection in reactor, using acoustic emission analysis, 22:16247 (CONF-671011-, pp 107-126)
flooring for, mechanical strength of large thin nonmagnetic stainless steel plates for, (E), 21:26122 (CEA-R-3184)
fracture behavior of steel, simulated service tests for determination of, 24:10047 (ORNL-4463, pp 122-36)
fracture behavior of thick-walled steel, effects of radioinduced toughness gradient on, 25:42841 (CONF-710512-8)
fracture behavior of Type A302B steel, measurement of, 23:22514 (BNWL-790, pp 8.1-10)
fracture characteristics of water cooled reactor, effects of steel thickness on, 25:60075
fracture in walls of, developments in three-dimensional elastic—plastic stress analysis for mechanics of, 25:55515
fracture mechanics evaluation of steels for reactor, 21:38475(R) (WCAP-3677-4)
fracture mechanics of irradiated and unirradiated manganese—molybdenum steel, testing of, 22:16326(R) (WCAP-3677-6)
fracture mechanics of reactor, evaluation of reliability from, 25:22074
fracture of defected steel, correlation with crack opening displacement, 24:17282
fracture of flawed, method for prediction of, 24:17291
fracture of heavy section steel, 25:48290(R) (ORNL-TM-2663)
fracture of heavy section steel, (E), 25:48291(R) (ORNL-TM-3411)
fracture of heavy section steel, effects of flaw growth and propagation on, (E), 25:23313(R) (ORNL-TM-3263)
fracture of heavy section steel, effects of flaw growth and propagation on, (E), 25:34393(R) (ORNL-TM-3342)
fracture of heavy section steel, effects of flow growth and propagation on, 25:57092(R) (ORNL-TM-3483)
fracture of heavy section steel, mechanisms of, 23:43975
fracture of low-strength steel, initiation mechanisms for, 24:17263
fracture of sphere shaped steel, crack initiation and propagation mechanics for, (E), 23:52499
fracture of Zircaloy-2 CANDU, at 20 and 300°C, 24:8038 (AECL-3478)
fracture reliability of reactor, effects of proof testing and warm prestressing on, 25:21261
fracture reliability of water moderated reactor, effects of proof testing and warm prestressing procedures on, 23:47197 (HSSTP-TR-1)
fracture testing of Penn State, 21:39623(R) (TID-23953)
fracture testing of Tokai-mura Power Reactor, analysis of double tension, Robertson, and ESSO, 22:27448
fracture testing of Type A533 steel for, 23:43962 (COO-1477-11)
fracture testing results for PM-2A, 21:38551
fracture toughness of A302-B steel for reactor, 21:6797(R) (COO-1477-6)
fracture toughness of electroslag welds on steel, 21:26771
fracture toughness of heavy-section steel, effects of thickness, strain rate, and temperature on, 24:10048 (ORNL-4463, pp 137-58)
fracture toughness of irradiated and unirradiated A 553 B steel, 23:27124 (BNWL-SA-1992)
fracture toughness of nonirradiated and irradiated steel, analysis of, 22:27491 (WAPD-TM-565)
fracture toughness of PM-2A, 23:1008 (BMI-1845, Sect. B)
fracture toughness of specimens from PM-2A, (E), 23:24949 (BNWL-870, pp 4.10-14)
fracture toughness of steel, composite materials testing method for determining, 25:45070
fracture toughness of steels for, as function of loading rate at 0 and 75°F, 21:30992(R) (COO-1477-8)
fracture toughness of Type A533B steel, measurements of, 24:44695 (HSSTP-TR-8)
fracture toughness of, analysis of materials factors affecting, 21:38749
fracture toughness tests on steels for, development of double cantilever beam method for, 21:28794(R) (BNWL-CC-355)
fracture transition temperature of Halden Boiling Reactor, testing analysis for brittle, 22:20816 (HPR-94)
free-expansion, description of pressure tube type reactor, 23:45147(P)
functions and inspection of reactor, 22:30798
gas flow from prestressed concrete, with complete circumferential crack, DYNA computer program for calculating, 25:10753 (GAMD-7567)
gas-cooled reactor vertical cylindrical prestressed concrete, with multiple horizontal metal cable hoops, 23:23889(P)
grain structure in small heat-treated steel, ultrasonic method for determination of, 25:6481
handling equipment for reactor, remote-control, 21:15663 (RT/ING-(66)5)
head cover seal for, description of flexible bellows, 22:12154(P)
head structure for reactor prestressed concrete, design of honeycomb steel, 24:36022(P)
headers for NRU Reactor, description of remote-controlled grinding and polishing machine for sealing, 22:44902
heat generation in cylinder shaped, calculation of fast and thermal neutron and γ radiation, (T), 24:20625
heat transfer analysis for, use of heat pipe model for, 23:2147
heat transfer in reactor, system design for, 21:15806(P)

heat treatment of large steel components of, by accelerated cooling with air—water mixture, 24:39634 (ZJE-77)
heat treatment of welded steel, method of, 22:49736(P)
heating techniques for tightening main flange bolts of reactor, 24:43740 (NP-10870)
holes in prestressed concrete, design of large reinforced, 23:11204
holes in prestressed concrete, strain distributions around, 23:11202
holes in prestressed concrete, use of dynamic relaxation method to evaluate stress distribution around, 23:11201
hydraulic characteristics of reactor, mockup facility for measurement of, 21:40541(R) (BNWL-492)
hydrogen combustion in LOFT, calculation of, 21:44843(R) (IDO-17239)
impact analysis for, 21:23745 (IITRI-578-P-21-19)
impact testing of steel, 21:40571(R) (ORNL-TM-1913)
inspection and operation of reactor, problem areas of, 22:30808
inspection and testing of, methods for in-service, 24:7602(R) (PB-184359)
inspection code for water cooled power reactor, ASME, 24:20481
inspection equipment and procedures for boiling water reactors, 25:37004 (JAERI-Memo-4330)
inspection for flaws, nondestructive, 21:36305
inspection for flaws, nondestructive, 21:36306
inspection of boiling power reactor, ultrasonic procedures for, 25:53934 (A/CONF.49/P-302)
inspection of boiling reactor, requirements for in-service, 25:39245 (CONF-710512-5)
inspection of Dresden Power Reactor Unit 1, description of nondestructive in-service, 22:53343
inspection of EBWR, pre-retirement, 23:4267
inspection of Elk River, ultrasonic, 21:44857 (SwRI-1228-P-9-13)
inspection of FTR, ultrasonic, 24:21035 (BNWL-1302)
inspection of Japanese Power Demonstration Reactor hand welded surfaces, ultrasonic reflectoscope method for, 24:1961
inspection of Japanese Power Demonstration Reactor, remote handling methods for, 24:1962
inspection of Japanese Power Demonstration Reactor, electric resistance method for nondestructive, 24:14203
inspection of JPDR, use of borescope for, 25:54122
inspection of LACBWR, description of ultrasonic equipment for in-service, 22:42209 (SwRI-1228-P-11-8)
inspection of nozzles for, comparison of gamma and x radiation methods for, 23:40961
inspection of Oskarshamn Power Reactor, in-service ultrasonic method for, 24:14216
inspection of pressurized water reactor, automated ultrasonic method for on-site, 24:38527
inspection of reactor prestressed concrete, instruments and techniques for, 23:11198
inspection of reactor steel, bibliography on recurring, 23:49558 (STI/PUB-21/34)
inspection of reactor steel, methods and standards for periodic, 24:27305
inspection of reactor steel, procedures and requirements for, 24:7100 (STI/DOC-10/99)
inspection of reactor, conference on recurring, 22:30797 (STI/DOC-10/81)
inspection of reactor, development of acoustic holography for, 23:2711
inspection of reactor, equipment for radiographic, 25:44112 (CONF-700224-, Paper 7)
inspection of reactor, immersion ultrasonic method for, 24:14217
inspection of reactor, in Germany, ultrasonic method for in-service, 25:51739
inspection of reactor, industry-sponsored development of in-service, 25:21259
inspection of reactor, nondestructive methods for, 25:21260
inspection of reactor, nondestructive testing methods for periodic, 25:37555
inspection of reactor, performance of linear accelerator for radiographic, 25:44113 (CONF-700224-, Paper 8)
inspection of reactor, radiographic method for, 23:45487
inspection of reactor, ultrasonic equipment and method for in-service, 25:29290
inspection of reactor, ultrasonic method for in-service, 24:45840
inspection of steel reactor, conditions for Swedish, 22:30801
inspection of steel reactor, development of methods for in-service, 24:22917
inspection of steel, electric resistance probe method for reactor in-service, 24:26696
inspection of steel, procedures for in-service ultrasonic, 25:44109 (CONF-700224-, Paper 2)
inspection of welds in reactor, training of personnel for, 25:39219 (CONF-710416-, Paper 9)
inspection of, acoustic holography for, 23:6320 (BNWL-SA-2017)
inspection program for LACBWR, description of in-service, 22:42208 (SwRI-1228-P-11-7)
inspection programs for reactor, review of, 22:30799
inspection programs for steel reactor, review of, 22:30809
installation equipment and procedures for, description of, 22:48798
instrumentation for prestressed concrete, review of, 23:11199
instrumentation requirements for measurement of mechanical and vibrational displacements of FFTF, 22:50802 (BNWL-818)
insulation for concrete reactor, performance of thermal, 21:23648
insulation for prestressed concrete reactor, stress analysis of fixture for attachment of Kaowool thermal, 24:7545 (GAMD-9116)
insulation materials for BWR systems, development of thermal, 21:31935(R) (GEAP-5282)
insulation of prestressed concrete, free convection effects in, 23:4475
insulation of, fabrication of metallic foils for, 21:13134(P)
interior linings for reactor, fabrication methods for, 21:41074
joints with nozzles, stress analysis of metal, 25:48765(R) (ORNL-4693)
leak rate testing, use of helium mass spectrometer for, 24:43739 (NP-10869)
leak testing of DRAGON, 24:38522 (DP-Report-154)
leak testing of Dragon reactor, under low pressures, 24:41581 (NP-10129)
leak testing of welded, methods for, 24:397
leak testing of, method for helium loss, 24:39109 (DP-Report-201)
leaks in Elk River Power Reactor, weld modifications on fittings to prevent, 21:46861(R) (NUS-401)
leaks of liquid sodium from stainless steel, effects of temperature on, 23:40349 (LA-4129)
lifetime of SM-1A, effects of in-place annealing on, 24:22474 (AD-699330)
limitations of prestressed concrete, 24:14871 (EUR-4280(Vol.1), pp 305-39)
liner for AGR, description of construction of, 22:22728
liner for Dungeness B reactor prestressed concrete, interactions between vessel and, 23:11145
liner materials for prestressed concrete, biaxial tension and compression testing of, 23:40275 (GAMD-8726)
liner of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, design parameters for, 23:40363
liners for heated-wall prestressed concrete reactor, description of, 24:16179 (EUR-4280(Vol.1), pp 135-56)
liners for Oldbury reactors prestressed concrete, design and development of, 23:11144
liners for prestressed concrete, design and construction of, 23:11223
liners for prestressed concrete, temperature distribution evaluation and cooling system design for, 23:11222
liners for reactor prestressed concrete, design methods for, 23:11224
liners for Wylfa reactor, fabrication of steel plate, 22:12992
liners for, powder underlay strip welding method for fabrication of stainless steel, 23:29044
liners of reactor, analysis of deformation stresses in, (T), 25:54315
list of world-wide reactors using prestressed concrete, 23:15596
maintenance of BONUS, 21:15662 (PRWRA-102)
maintenance of Japanese Power Demonstration Reactor, remote handling procedures for, 24:1962
maintenance of, penetration without pressure loss for, 21:30311(P)
manufacture of steel, problems with, 25:20555
material properties of thick-walled reactor, heat treatment for improving, 22:7917 (NUCLEX-66, Paper 2)
materials development for AARR, 21:40669 (ANL-7290, pp 27-119)
materials for advanced reactor, development of, 24:990 (GEMP-1012(Pt.2), pp 167-202)
materials for British power reactor, requirements for corrosion resistance of, 22:47660 (CONF-671007-2)
materials for heated-wall prestressed concrete reactor, description and behavior of, 24:16179 (EUR-4280(Vol.1), pp 135-56)
materials for high-strength, 22:15181 (GEMP-1002, pp 108-22)
materials for LMFBR, evaluation of properties of, 24:32423
materials for low- and intermediate-pressure reactor, properties of Swedish steels as, 22:31370
materials for reactor, evaluation of nickel steel as, 21:20547
materials for reactor, program for determination of properties of, 22:10524(R) (ORNL-4176)
materials for reactor, tensile properties and Charpy V-notch data for A533 Grade B Class 1 steel, 22:44926(R) (WCAP-3677-8)
materials for reactor, use of nickel steel as, 22:2671
materials for steel reactor, toughness standards for, 25:49424
materials for water-cooled reactors, summary of properties and performance of, 23:11174
materials for, critical crack opening displacement method for selecting fracture-resistant, 25:40014 (IAEA-117, Paper 4)
materials for, development and testing of, 25:13724 (ORNL-4590, pp 100-34)
materials for, development off weldable steel, 25:49373 (ORNL-TM-3300, pp 159-69)
materials for, effects of aluminum—silicon deoxidation on properties of, 21:26792 (GAMD-5878)
materials for, evaluation of heat-treated steels for use as, 21:14848
materials for, nondestructive testing of, 23:26485 (KURRI-TR-30)
materials for, problems in selection of, 25:27204 (INIS-mf-3)
materials for, properties of austenitic stainless steel, 24:27786
materials for, properties of high-strength steel, 23:30009 (GEMP-1010, pp 199-231)
materials for, properties of prestressed concrete for, 21:16667(R) (BMI-X-10187)
materials for, radiation testing of, 21:31054(R) (BNWL-CC-1053)
materials for, review on, 21:20495
materials for, review on development of, 25:45060
materials for, studies of, 23:36090
materials surveillance program for LACBWR, evaluation of, 22:42207 (SwRI-1228-P-11-6)
materials surveillance programs in light water-moderated reactors, 21:46969
materials testing for, 21:31059(R) (HW-84517)
materials testing for, equipment and methods of nondestructive, 21:26869(R) (HW-83398)
mechanical characteristics of reactor, mockup facility for measurement of, 21:40541(R) (BNWL-492)
mechanical coupling of, with same axis of symmetry, 21:8512(P)
mechanical properties of A533 steel, for reactors, 23:991
mechanical properties of aluminum 2219 and Inconel 718 for hydrogen, comparison of, 24:14770
mechanical properties of EGCR steel, 21:26869(R) (HW-83398)
mechanical properties of niobium—steel, 23:27090
mechanical properties of niobium-zirconium alloy, statistical evaluation of, 24:39635
mechanical properties of prestressed concrete, at high temperatures, 22:4327
mechanical properties of prestressed concrete, design testing of, 22:30149 (GA-8623)
mechanical properties of prestressed concrete, effects of thermal stress on, 22:18589(T) (ORNL-tr-1876)
mechanical properties of prestressed concrete, model analysis of, 22:42200(R) (ORNL-4200)
mechanical properties of prestressed concrete, model analysis of, 23:28460 (ORNL-4353, pp 141-278)
mechanical properties of steel for power reactor, effects of annealing on, 21:22868(T) (AEC-tr-6855)
mechanical properties of steel for, effects of microstructure changes on, 25:55466
mechanical properties of steel, analysis of, 22:25098(R) (ORNL-TM-2164)
mechanical properties of steel, programmed method for testing of, 24:36912
mechanical properties of Type A302B steel, effects of fabrication and heat-treatment on, 23:27026
metal plate design for nuclear, 22:48997
metallurgical properties of Dragon Reactor, 24:39623 (DP-Report-80)
mockups of externally prestressed concrete reactor, results of theoretical and experimental studies on, 24:16320 (EUR-4280(Vol.1), pp 187-222)
model for prestressed concrete reactor, description of, 22:10076 (GA-7097(Suppl.))
models of prestressed concrete reactor, design of, 22:15232 (ORNL-P-3595)
motion during excursions of EVESR, semi-empirical approach for estimating, 22:3891 (GEAP-5164)
mounts for water-cooled and -moderated maritime reactor, description of multiple curved duct-connected dry and wet well, 22:48717(P)
neutron flux and spectra in steel, (E/T), 25:6213
nozzle components for, radiographic inspection of, 24:395
nozzle configurations for, high-stress low-cycle fatigue testing of, 22:6174
nozzle connections for reactor, low-cycle fatigue testing of partial penetration welded, 24:13541 (APED-5592(Pt.4))
nozzle connections on, fabrication method for, 21:10228(P)
nozzle junctions with thick-walled, three dimensional finite element computer stress analysis of, 25:46580 (ORNL-TM-3315)
nozzle weldments to reactor, low-cycle fatigue strength of, 25:32668
nozzle-to-shell junctions in, stress analysis of region of, 25:2386 (ORNL-TM-2526(Add.))
nozzle-to-shell junctions in, structural behavior of, 23:21860 (ORNL-TM-2526)
nozzles for spherical, reinforcement design for radial, 21:30597 (WAPD-T-1892)
nozzles for steel, low-cycle fatigue strength of butt-welded, (E), 24:25241
nozzles for, analytical and experimental studies for, 22:7816(R) (ORNL-TM-2057)
nozzles for, effects of attachment configuration on stresses in, 25:57092(R) (ORNL-TM-3483)
nozzles for, effects of attachment configuration on stresses in, (E/T), 25:23313(R) (ORNL-TM-3263)
nozzles for, effects of attachment configuration on stresses in, (E/T), 25:34393(R) (ORNL-TM-3342)
nozzles for, high stress fatigue analysis of, 24:11335
nozzles in cylindrical and spherical, design procedures, stress analysis, and flexibility of radial, (E/T), 22:30347 (TID-24342)
nozzles of, effects of attachment configuration on stresses in reactor, 24:52951 (ORNL-TM-3122)
nozzles of, effects of attachment configuration on stresses in, 25:48290(R) (ORNL-TM-2663)
nozzles of, effects of attachment configuration on stresses in, (E/T), 25:48291(R) (ORNL-TM-3411)
openings in concrete, determination of stresses at, 23:11734 (RD/B/N-1152)
openings in prestressed concrete, design of closure for, 23:47673(P)
openings in, design of reinforced, 25:44484 (CONF-710512-14)
operation of high-temperature isopiestic, 24:36207 (ORNL-4586, pp 67-86)
overpressure testing of prestressed concrete reactor, 22:10076 (GA-7097(Suppl.))
penetration assemblies for water-cooled reactor, installation of double-end-weld electrical, 23:47675
penetration sealing in Oldbury Reactor, performance of metallic foil, 22:7859
penetrations in boiling reactor, description of teflon discs and glass fiber seal from lead wire, 23:47206(P)
penetrations in large boiling water power reactor, design and analysis of control rod drive, 23:47188 (APED-5703)
penetrations in prestressed concrete, stress analysis of circular, 24:40946 (DP-Report-353)
penetrations in reactor, description of hermetically sealed drive shaft assembly for, 25:12863(P)
penetrations in, design of closure for, 22:10469(P)

penetrations in, wire termination techniques and fault current determinations for design of electrical, 23:31238 (CONF-690113-3)
penetrations of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, design parameters for, 23:40363
performance of Halden Boiling Reactor, 24:20475 (HPR-119)
performance of heavy section steel water reactor, prediction methods for, 23:24861 (ORNL-4377, pp 97-109)
performance of Marcoule Reactors (G-2) and (G-3) prestressed concrete, 24:20469 (CEA-CONF-1483)
performance of prestressed concrete for, for reactors, 21:14365(T) (ORNL-tr-1568)
performance of prestressed concrete reactor, effects of radiation on, 21:41077
performance of prestressed concrete, at Marcoule G-2 and G-3 reactors, 21:31007(T) (ORNL-tr-1689)
performance of prestressed concrete, correlation with model test results, 25:29308
performance of prestressed concrete, for 600 MW(e) boiling water reactors, 25:31551 (EUR-4531, pp 615-45)
performance of prestressed concrete, for gas cooled graphite moderated power reactors, 25:31455 (EUR-4531, pp 95-128)
performance of prestressed concrete, for gas cooled power reactors, 25:53900 (A/CONF.49/P-469)
performance of prestressed concrete, for power reactors, 25:31552 (EUR-4531, pp 647-89)
performance of prestressed concrete, in boiling water reactors, 21:15654(R) (GEAP-4969)
performance of prestressed concrete, model testing for long-term, (E), 25:10325 (ORNL-TM-3246)
performance of prestressed concrete, models for prediction of, 25:29300
performance of thick-section ASTM A533 steel reactor, 23:8168 (ORNL-4370, pp 175-8)
pipes for, method for fabricating spiral multilayer, 24:46404(P)
plasticity in reactor, analysis of anisotropic small strain, (T), 24:24930
plate header for CIRENE prototype power reactor, elastic-mechanical analysis of, 21:46887
plates for reactor, fabrication of perforated, 21:39099(P)
plates for, standard for carbon steel, 25:42792 (RDT-M-5-2-T)
plates for, standard for manganese—molybdenum—nickel alloy steel, 25:42793 (RDT-M-5-3-T)
plug for liquid sodium cooled fast reactor, design parameters of inner and outer face dip seal, 24:47852(P)
porosity of concrete, equipment and method for measurement of, 24:44167(P)
port design in NERVA, for instruments, 21:1874 (WANL-TME-1465)
pressure buildup in sealed, containing nitric acid—plutonium nitrate solutions, 23:43487 (ARH-1093)
pressure limits of spherical, subjected to internal pressure and external axial force, (T), 25:48708
pressure release mechanisms for HWOCR, analysis of, 22:3813(R) (AI-CE-54)
pressure response of quarter-scale concrete, correlation with analytic prediction, 23:34083 (GA-9309)
pressure stresses on simulated heavy-section steel, 22:1772(R) (ORNL-TM-1986)
pressure test on full-scale model of Bohunice reactor, 22:35525
pressure testing and evaluation of model of prestressed concrete, 23:11213
pressure testing of Czechoslovakia carbon dioxide-cooled heavy water-moderated reactor, description of, 22:42230
pressure testing of irradiated PM-2A, design of loop facility for, 21:19390 (WAPD-TM-640)
pressure testing of prestressed concrete, to 1720 psig, 22:16315 (GA-7301)
pressure transients in water-cooled reactor, computer program analysis of cooling system rupture-initiated, 23:4289
pressure transients in, coolant loss accident simulation of 600°F and 2500 psi, 23:9182(R) (BNWL-754)
pressure vessel of description of multi-section cylindrical prestressed concrete, 22:39922(P)
pressure vessels of prestressed concrete, design characteristics of thermal insulation for gas cooled reactor, 23:28471
prestressing concrete for, steel rope wrapping method for, 25:60063
prestressing of concrete reactor, description of new method for, 24:16319 (EUR-4280(Vol.1), pp 157-86)
prestressing of concrete reactor, using steel hoops, 25:30028 (EUR-4531, pp 445-76)
prestressing of concrete, analysis of, 25:53905 (A/CONF.49/P-571)
prestressing of concrete, design of equipment for circumferential, 23:39044(P)
prestressing of concrete, method for anchoring and winding wires for circumferential, 23:38147(P)
prestressing of concrete, method for anchoring wires for circumferential, 23:38146(P)
prestressing of gas- and water-cooled reactors concrete, use of steel rings for, 22:44829(T) (ORNL-tr-1966-b)
prestressing of large concrete, development of jack method for circumferential, (E), 22:19007(T) (ORNL-tr-1877)
prestressing of reactor concrete, by tensioned cables around vessel circumference, 23:11219
prestressing of reactor cylindrical concrete, system for longitudinal and peripheral, 24:4170(P)
prestressing procedures for concrete, 21:21800 (EUR-3264.f)
prestressing system for reactor concrete, arrangement of hooping cables in, 23:11220
prestressing system for reactor concrete, design and testing of, 23:11139
prestressing tendon system for Wylfa reactor concrete, design and testing of, 23:11138
prestressing tendon systems for concrete, design and testing of, 23:11233
prestressing tendons for reactor concrete, requirements for large, 23:11218
prestressing tendons in concrete, stresses in anchorage zone of, 23:11203
prestressing tendons in concrete, use of dynamic relaxation method to evaluate stress distribution in anchorage zones of, 23:11201
prestressing wires and strands of concrete, long-term relaxation behavior of stabilized, 23:10205
prestressing wires for concrete reactor, fabrication and properties of steel, 25:55422
prestressing wires for reactor concrete, effects of temperature on relaxation of, 23:10204
production of heavy-section steel reactor, development of methods for, 24:19396 (ORNL-4512, pp 1-6)
properties at -250 to 600°F of Type A533B 12 in. thick plate steel for, 23:24840 (BNWL-870, pp 13.1-18)
properties of Avesta 248SV and Bofors 2RMO steel reactor, 24:19473
properties of PH 13—8Mo stainless steel, 23:6665 (GEMP-1004, pp 275-315)
properties of prestressed concretes, 22:20830
properties of reactor prestressed concrete, radiation effects on, 23:10319
properties of reactor prestressed concrete, review of, 23:10314
properties of steel, 21:30305
properties of steel, for Czechoslovak power reactors, 25:58216 (ZJE-106)
properties of steel, for water reactor, 25:19222
properties of water-cooled reactor steel, effects of operating parameters on, 23:23901
pump removal from, device design for, 21:30311(P)
pumps in water cooled reactor, installation and maintenance of axial, 24:1993
quality control for prestressed concrete, 23:8276 (ORNL-4370, pp 165-74)
radiation effects on A-212B steel, annealing of fast-neutron, 21:28795(R) (BNWL-CC-510)
radiation effects on A212—B steel, effects of neutron fluence on, 25:6145 (AD-709898)
radiation effects on A212-B steel, neutron, 21:20544
radiation effects on Army SM-1, neutron, 24:34920(R) (AD-703617)
radiation effects on ASTM SA336 steel for Garigliano Power Reactor, testing of neutron, 23:11115 (GEAP-5645)
radiation effects on brittle fracture of steel reactor, method for evaluation of, 25:11470
radiation effects on brittle-ductile transition temperature in steel for, neutron, 21:26865(R) (HW-74679)
radiation effects on brittleness and microstructure of steel, neutron, 24:14836
radiation effects on brittleness of PM-2A reactor, destructive testing for neutron, 22:53403
radiation effects on brittleness of PM-2A reactor, destructive testing for neutron, 22:53401
radiation effects on brittleness of steel, in-pile, 24:42161(T) (CONF-700211-3)
radiation effects on brittleness of Type A302B steel, fast neutron, 24:14837
radiation effects on Charpy V-notch and tensile specimens of Type A302-B steel, fast neutron, 22:47671 (CONF-671007-3)
radiation effects on chemical and mechanical properties of steels for Czechoslovakia reactor, 25:8899 (ZJE-89)
radiation effects on concrete and steels, fast neutron, 25:52386 (A/CONF.49/P-189)
radiation effects on ductile-brittle transition temperature in SM-1 steel, fast neutron, 21:26869(R) (HW-83398)
radiation effects on ductility of steel, in-pile, (E), 25:6146
radiation effects on ductility of Type A302-B steel, fast neutron, 22:47671 (CONF-671007-3)
radiation effects on ductility of Types A350-LF1 and A302-B steel, fast-neutron, 23:1012
radiation effects on EBWR Type 304 stainless steel-clad SA-212-B carbon steel, analysis of fast neutron, 23:15625 (ANL-7117(Suppl.))
radiation effects on embrittlement of A302B steel, evaluation of fast neutron, 25:28682 (JAERI-1202)
radiation effects on embrittlement of power reactor steel, surveillance tests for neutron, 25:39143 (IAEA-117, Paper 6)
radiation effects on embrittlement of reactor, neutron, 25:23277
radiation effects on embrittlement of steel reactor, review of German studies on neutron, 25:40068 (IAEA-117, Paper 4a)
radiation effects on embrittlement of steel reactor, need for appraisal of surveillance program on, 25:40065 (IAEA-117, Paper 2a)
radiation effects on embrittlement of steel reactor, review of factors affecting, 25:40071 (IAEA-117, Paper 9a)
radiation effects on embrittlement of steel reactor, review of Japanese studies on, 25:40066 (IAEA-117, Paper 3a)
radiation effects on embrittlement of steel reactor, review of US studies on, 25:40063 (IAEA-117, Paper 1a)
radiation effects on embrittlement of steel, critical parameters for neutron, 25:22122
radiation effects on embrittlement of steel, neutron, 25:39351
radiation effects on embrittlement of steel, neutron, 21:13207(R) (EURAEC-1743)
radiation effects on fatigue strength of, in-pile, 22:19585 (NRL-6620)
radiation effects on ferrite steel, neutron, 22:52225
radiation effects on fracture mechanics of steels for, program for testing fast neutron, 21:14860(R) (WCAP-3677-1)
radiation effects on fracture mechanics of steels for, 21:13162(R) (WCAP-3677-2)
radiation effects on fracture of heavy section steel, 24:34922 (BNWL-1349-1, pp 4.1-97)
radiation effects on fracture of heavy-section Type A533B steel, fast neutron, 25:32752(R) (ORNL-4653)
radiation effects on fracture strength of Peach Bottom, fast neutron, (E), 24:35955(R) (GA-10099)
radiation effects on fracture toughness and tensile properties of heavy plate steels for reactor, fast neutron, 23:14372(R) (WCAP-3677-9)
radiation effects on fracture toughness of welds on steel, fast neutron, 24:44741 (NRL-7095)
radiation effects on hardness and tensile properties of Type A533 steel, neutron, 24:14835
radiation effects on hardness of steels for, 22:19520(R) (RISO-151)
radiation effects on heavy-section Type A533B steels for, fast neutron, 24:10123 (ORNL-4463, pp 89-121)
radiation effects on high-strength steel, neutron, 23:34021 (AD-684067)
radiation effects on hydrogen embrittlement of 212-B steel, neutron, 21:26861(R) (BNWL-CC-658)
radiation effects on impact properties of mild steel in HWBR, neutron, 22:17146 (HPR-91)
radiation effects on LaCrosse BWR, surveillance program for, 21:40517 (ACNP-66513)
radiation effects on Lingen reactor, 21:12162
radiation effects on materials for, availability of data on, 22:35658(R) (AD-663879)
radiation effects on mechanical properties of ASTM A302-B type steel, for reactors, 22:19576 (BNWL-455, Paper 6.1-9)
radiation effects on mechanical properties of ASTM A302, ASTM A533, and HY 80 steels for, neutron, 24:29987
radiation effects on mechanical properties of Big Rock Point Reactor A302 steel, fast neutron, 24:29998
radiation effects on mechanical properties of carbon steel and low and high alloy steel, relations of fabrication methods with, 24:10127
radiation effects on mechanical properties of chromium—molybdenum—nickel—steel, for steam-cooled fast reactors, in-pile, 24:29990
radiation effects on mechanical properties of PM-2A steel, 23:3088(R) (AD-671094)
radiation effects on mechanical properties of PM-2A steel, fast neutron, 24:29989
radiation effects on mechanical properties of reactor, neutron, 25:49493
radiation effects on mechanical properties of steel, for BR-3, 21:34153 (BLG-372)
radiation effects on mechanical properties of steel, neutron, 25:8900 (ZJE-90)
radiation effects on mechanical properties of steel, neutron, 23:27122 (AD-681020)
radiation effects on mechanical properties of steel reactor, fast neutron, 25:32757
radiation effects on mechanical properties of steel reactor, neutron, 25:49481 (AD-721068)
radiation effects on mechanical properties of steels, low-temperature fast-neutron, 21:507 (RCN-57)
radiation effects on mechanical properties of Type A-302-B steel for, 21:39607(R) (AD-650349)
radiation effects on mechanical properties of U.S.S.R. 48 TC steel, in-pile and neutron, 25:53908 (A/CONF.49/P-705)
radiation effects on mechanical properties of Zircaloy-2, relations of hydrogen content with fast neutron, 24:34928
radiation effects on mechanical properties of, standard method for surveillance of, 25:37988
radiation effects on MH-1 A, surveillance program for, 22:35561 (AD-663550)
radiation effects on nil-ductility transition temperature of steel, program for surveillance of neutron, 24:32468 (BAW-10006(Rev.1))
radiation effects on nil-ductility transition temperature of reactor, surveillance program on neutron, 25:58294 (BAW-10006(Rev.2))
radiation effects on notch ductility in Yankee Reactor, neutron, 21:26869(R) (HW-83398)
radiation effects on notch ductility of A 533-B and A 533-C steel, neutron, 23:27123 (AD-681373)
radiation effects on Otto Hahn reactor, fast neutron, 22:37508
radiation effects on power reactor, surveillance of, 21:28794(R) (BNWL-CC-355)
radiation effects on prestressed concrete reactor, in-pile, 25:30022 (EUR-4531, pp 237-65)
radiation effects on prestressed concrete, fast neutron, 25:37007(T) (ORNL-tr-2470)
radiation effects on prestressed concrete, fast neutron, 25:23270 (UJV-2390-RT)
radiation effects on reactor, review on, 21:15731
radiation effects on reactor, surveillance programs for, 25:34339
radiation effects on steel and welds of, for Elk River Reactor, neutron, 21:13215 (SwRI-1228-P-4-28)
radiation effects on steel components in prestressed concrete, 23:10243
radiation effects on steel for, as function of fracture toughness, method for measuring, 21:22942(R) (COO-1477-7)
radiation effects on steel for, neutron, 22:4812(R) (ORNL-4195)
radiation effects on steel reactor, fast neutron, 25:32758
radiation effects on steel reactor, neutron, 25:32756
radiation effects on steel reactor, relations of dose and spectra with neutron, 25:32760
radiation effects on steel reactor, review of Czechoslovakian studies on, 25:40069 (IAEA-117, Paper 6a)
radiation effects on steel reactor, surveillance programs on fast neutron, 25:32759
radiation effects on steel, annealing of neutron, 22:43615(R) (BNWL-710)
radiation effects on steel, control of neutron, 23:1011

radiation effects on steel, dosimetry techniques for neutron, 25:44117
radiation effects on steel, equipment and methods for nondestructive materials testing of, 21:26869(R) (HW-83398)
radiation effects on steel, fast neutron, 22:19598
radiation effects on steel, fast neutron, 24:4817 (GAMD-9393)
radiation effects on steel, neutron, 22:4811(R) (AD-646662)
radiation effects on steel, surveillance program for neutron, 25:39142 (IAEA-117, Paper 5a)
radiation effects on steels and welds in Elk River reactor, neutron, (E), 22:30159 (SwRI-1228-P-9-15)
radiation effects on steels for ERR, neutron, 21:7898(R) (SwRI-1228-P-4-25)
radiation effects on steels for reactor, research on, 23:24953 (BNWL-870, pp 9.1-19)
radiation effects on steels for, at 160 to 240°C, neutron, 21:43639 (AE-298)
radiation effects on steels for, method for determining neutron, 21:18299(R) (EURAEC-1794)
radiation effects on steels for, neutron, 21:46970
radiation effects on steels for, relations with hydrogen content, 22:43613 (ANL-7299, pp 144-9)
radiation effects on steels for, ultrasonic method for detection of, neutron, 23:26481 (BNWL-SA-2207)
radiation effects on tensile properties of PM-2A reactor steel, measurement of fast neutron, 23:17263 (AD-672890)
radiation effects on thick steel, 25:22119(R) (WHAN-FR-40-1)
radiation effects on thick-section steel reactor, neutron, 24:19471 (ORNL-4512, pp 70-93)
radiation effects on through-thickness embrittlement of A302B steel, fast-neutron, 21:32931(R) (BNWL-CC-883)
radiation effects on transition temperature of type A302B steel, neutron, (T), 22:13038 (WAPD-TM-471(Add.1))
radiation effects on Types A212B and A302B steels for reactor, in-pile, 23:36149
radiation effects on water-moderated steel, 21:40628
radiation effects on welds in steel, neutron, 25:8901 (ZJE-91)
radiation effects testing of Swedish, for PWR and BWR, neutron, 21:11270
radiation effects testing on PM-2A, 21:23603(R) (IN-1061)
radiation exposure of PM-2A, profile of neutron, (E/T), 21:21744
radiation testing of specimen materials in Garigliano Power Reactor for, description of, 22:18418 (EURAEC-1985)
radiation-damage surveillance of power-reactor, present and proposed ASTM programs for, 21:21671
radioinduced embrittlement of ASTM A302B steel in, 21:14866
radioinduced embrittlement of reactor, effects of heat treatments on neutron, 22:19588
radioinduced embrittlement of SM-1A, calculation of, 21:1915 (AD-641283)
radioinduced embrittlement of steel reactor, discussion of major factors affecting neutron, 25:24606 (NRL-7176)
radioinduced embrittlement of steel, review of neutron, 23:41684
radioinduced embrittlement of steels for, 21:6838 (NRL-6420)
reinforcing wires in prestressed concrete reactor, radiation effects on strength of corrosion-resistant coated, 24:23501
reliability analysis of power reactor, 25:5983 (RISO-214, pp 323-34)
reliability analysis of power reactor, 25:5982 (RISO-214, pp 301-22)
repair of reactor, ventilation system for use during, 24:16269
repairs of cracks in Savannah River Production Reactor stainless steel, equipment for remote welding, 23:37682 (DP-1199)
replacement of NRU Reactor, safety and machining procedures for, 21:35733
response of walls of prestressed concrete, to increasing internal pressure, analytical method for determining, 25:15861
response to loading of prestressed concrete, analytical method for analysis of ultimate, 25:8392 (GA-9994)
review of prestressed concrete, for reactors, 21:1165 (JUL-350-VW)
review of prestressed-concrete, for power reactors, 21:1160 (GA-7162)
ribs for prestressed concrete, description of opposing horizontal-cable-anchored multiple longitudinal, 23:19485(P)
rigidity of walls of reactor, effects of reinforced holes on, 21:23753
rupture strength of wire-wrapped steel, 23:38982
safety aspects and design and construction problems of power reactor prestressed concrete, 23:28532
safety assessment of PWR and BWR, Heavy Section Steel Technology program for, 25:51022
safety codes and standards for reactor, 25:39140 (CONF-710512-13)
safety criteria for reactor prestressed concrete, 22:20945
safety of reactor prestressed concrete, development of design criteria for, 23:11227
safety of reactor prestressed concrete, effects of prestressing, material strength, environmental conditions, and long-term stresses on, 23:11228
safety of reactor prestressed concrete, relation of design criteria to, 23:11230
safety of thick-walled alloyed steel, effects of alloying metals on, 24:25713
safety of water-cooled reactor, Heavy Section Steel Technology Program for evaluation of, 24:10016 (ORNL-4463, pp 1-9)
safety of, steam boiler failure evaluation on, 23:43430 (AHSB(S)R-161)
seal for, development of gas, 23:49562
sealing system for fluid-containing, design of leak-tight, 22:12517(P)
seals for access port of, description of coaxial pipe plug-, 22:30402(P)
seals for High-Temperature Gas-Cooled Reactor Experiment, leak testing of welded, 24:38518 (DP-Report-66)
seals for liquid metal cooled reactor, design of coolant, 25:57043(P)
seals for NRU, remote cleanup equipment for, 22:4409
seals for reactor, design of gas-tight, 23:19893(P)
seals for wall probe penetrations in, design of hermetic, 25:8402(P)
seals for, description of high pressure coolant, 22:6182(P)
seals for, design of, 21:25696(P)
seals for, design of bellows for entry port, 21:46996(P)
seismic effects on, model studies of, 25:54305
seismic resistance of prestressed concrete, (T), 24:24868
shape and strength of large, parameters for, 21:22869(T) (AEC-tr-6857)
shielding for reactor steel, calculations for optimum radiation and thermal, 23:23886
shielding of reactor steel, optimization of radiation and thermal, (T), 23:45063(T) (JPRS-48590)
shielding properties of, gamma and neutron transport and thermoelastic equations for formulating, 21:12256 (INR-685/IX/RP)
shock generation due to reactivity excursion in water-cooled reactors, 22:3870
shock wave effects on liquid sodium cooled fast reactor, model study for, 24:29005
shock wave effects on, during coolant loss accidents in boiling- and pressurized-water reactors, 22:27399(R) (BMI-1835)
site assembly of boiling and pressurized-water power reactor steel, techniques for, 23:15627
skirt-support junctions for, two- and three-dimensional photoelastic test stress analysis of, 22:14303
sleeve separator for submerged core and surrounding boiler in pressurized-water reactor, description of vertical cylindrical, 22:37476(P)
specifications for water-cooled reactor prestressed concrete, 22:25011
standard for fabrication of stainless steel reactor, for liquid metal service, 25:40004 (RDT-E-10-3-T)
standard for tempered alloy steel forgings for, 25:39979 (RDT-M-2-8-T)
standards for fracture-safe operation of heavy-section Type A533B steel, reassessment of Charpy-V-test-based, 24:46714 (NRL-7152)
standards for reactor prestressed concrete, summary of French, 25:10160(T) (ORNL-tr-2402)
standards for reactor, International Standards Organization activities for developing, 24:16131
standards for steel reactor, Japanese specifications for, 24:17245
standpipe for prestressed concrete, for gas cooled reactors, 21:19437(P)
standpipes for reactor, design of closure plug for, 21:44962(P)
steel fatigue testing for, 21:11211 (CONF-660647-1)
steel for, 21:39576(P)
steel for 1500 MW(e) reactor, development of, 21:23757
steel for nuclear, properties of ASTM-A302B, 22:23786
steel for reactor, fracture toughness testing of A302-B, 22:10944(R) (COO-1477-9)
steel for, annealing effects on tensile properties of Type A350-LF1, 22:43620 (NRL-6721)
steel for, creep-rupture strength of HT 70, 22:43589
steel for, embrittlement mechanism of, 21:32883
steel for, radioinduced embrittlement of, 21:31058(R) (EURAEC-1857)
steel for, tensile properties of carbon and nickel, 22:17147 (NRL-6649)
steel for, tensile properties of irradiated, 23:12373(R) (EURAEC-2057)
steel plates for, standard for longitudinal-wave ultrasonic testing of, 25:32149
steel plates for, testing of, 22:30806
steels for boiling water reactor, performance of low-alloy and austenitic stainless, 24:18641
steels for Otto Hahn reactor, development and testing of, 23:28598
steels for Otto Hahn reactor, radiation effects on, 23:28597
steels for reactor, evaluation of, 22:15173(R) (EURAEC-1963)
steels for reactor, fracture testing of, 22:3935(R) (WCAP-3677-5)
steels for reactor, methods of improving strength of, 24:36900 (ZJE-74)
steels for reactor, properties of, 23:28641
steels for reactor, properties requirements for, 23:28467
steels for reactor, radiation effects on, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
steels for reactor, testing low-alloy, 22:52160 (EURAEC-2051)
steels for reactor, thermal cycling effects on carbon and Type A 302 B, 23:14352
steels for use in prestressed concrete, Japanese visit to Europe and US to study properties of, 25:49432
steels for water-cooled power reactor, Heavy Section Steel Technology Program for studying fracture behavior of, 24:25235
steels for, correlations for nondestructive testing of tensile strength of, 24:14674
steels for, correlations for nondestructive testing of tensile strength of, 24:14723
steels for, crack propagation by low-cycle fatigue, 21:36855
steels for, development of thick-section, 24:2920 (ORNL-4470, pp 160-2)
steels for, effects of annealing on irradiated, 21:22897 (WAPD-T-1834)
steels for, effects of stress-relieving heat treatment on tensile properties of, 24:29947
steels for, effects of warm prestressing on mechanical properties of Type A502 Class 2, 24:14700 (KAPL-3826)
steels for, fatigue crack growth rates in Types A302 and A508, 23:20504
steels for, fatigue cracking parameters of, 22:23763 (KAPL-3383)
steels for, fracture behavior for, 22:7816(R) (ORNL-TM-2057)
steels for, hydrogen embrittlement effects on, 22:10089
steels for, low-cycle fatigue of Types A302, A387, A516, and HY-80, 24:29961
steels for, materials properties and integrity of, 22:7816(R) (ORNL-TM-2057)
steels for, nondestructive hardness testing for detection of brittle transition temperature of, 24:25176
steels for, notch effects on fatigue resistance of, 22:23767
steels for, performance testing of A302-B and A533, 23:12375 (NRL-6803)
steels for, properties of carbon and low-alloy, 25:22072
steels for, radioinduced embrittlement of, 22:36508(R) (AD-661229)
steels for, review on development of, 24:46720
steels for, testing of Type A533B thick-section, 25:22073
steels for, thermal cycling effects on Type 18-8 stainless, 23:14352
strain analysis for 1000 MW(e) HTGR-type reactor prestressed concrete, effects of pressure on meridional, 23:4165(R) (GA-7553)
strain analysis for 1000 MW(e) HTGR-type reactor prestressed concrete, description of, 23:4168(R) (GA-7981)
strain analysis for 1000 MW(e) HTGR-type reactor prestressed concrete, 23:19464(R) (GA-8200)
strain analysis for Fort St. Vrain Power Reactor Unit 1 prestressed concrete, description of, 23:4169(R) (GA-8038)
strain analysis for Fort St. Vrain Power Reactor Unit 1 prestressed concrete, description of, 23:4167(R) (GA-7939)
strain analysis for Fort St. Vrain Power Reactor Unit 1 prestressed concrete, description of, 23:4170(R) (GA-8270)
strain analysis of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, description of, 23:9118(R) (GA-7634)
strain analysis of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, description of, 23:9117(R) (GA-7453)
strain behavior of prestressed concrete, effects of temperature and compressive stresses on, 23:10317
strain dynamics analysis under internal blast loading, effectiveness of reduced-scale model tests for, (E/T), 22:44918 (CONF-660669-1)
strain energy of AARR, calculation of ultimate, 21:21755(R) (ANL-7302)
strain in top of prestressed concrete, comparison of measured and calculated long-term variations of, (E/T), 25:28528 (RD/B/N-1784)
strain measurement techniques for prestressed concrete, 23:11200
strains in Oldbury Reactor concrete, finite element method for calculation of, 23:17658
strength of end slabs of prestressed concrete, stress analysis of ultimate, 24:33834
strength of large reactor, optimum shapes for maximum, 22:7916 (NUCLEX-66, Paper 1)
strength of reactor prestressed concrete, effects of temperature on, 22:44917(R) (BMI-X-10236)
strength of reactor prestressed concrete, scale model tests for determination of, 23:45075
strength of, methods for evaluation of, 24:2409 (ZJE-52)
stress analyses of spherical model of prestressed concrete, comparison of theoretical and experimental, 23:11210
stress analysis and testing of Marcoule G-2 and G-3, 21:31007(T) (ORNL-tr-1689)
stress analysis for flanges of, 21:30302
stress analysis for gas-cooled reactor cylindrical prestressed concrete, description of lumped-parameter, 23:23897 (TID-25012)
stress analysis for piping intersections in, finite-element method for, 24:25172
stress analysis for prestressed concrete reactor, 23:34896(R) (GA-8356)
stress analysis in reactor prestressed concrete, (E/T), 25:56993
stress analysis in reactor, review of photoelastic method for thermal, (E/T), 23:21477
stress analysis in, with hemispherical and torispherical heads, use of computer for, (E/T), 21:34421
stress analysis of concrete, effect of creep on, (T), 21:16670
stress analysis of concrete, using shell theory, 21:10173
stress analysis of discontinuous cylindrical, for ESSOR reactor, 21:13968 (EUR-3159.e)
stress analysis of Fort St. Vrain Power Reactor Unit 1 prestressed concrete, 24:9058
stress analysis of Hartlepool Power Reactors prestressed concrete, 24:9050
stress analysis of LOFT reactor, flat rectangular finite element method for, 23:17646
stress analysis of low carbon steel reactor, 24:36018 (ZJE-59)
stress analysis of nuclear prestressed concrete, finite element method for, 22:40335
stress analysis of nuclear prestressed concrete, finite element method for, 22:40336
stress analysis of podded boiler type prestressed concrete, three dimensional finite element, 25:51080
stress analysis of power reactor, finite element method for, 25:60142

stress analysis of prestressed and reinforced concrete, finite element method for, 23:16015 (RD/B/N-1195)
stress analysis of prestressed concrete, 25:56884
stress analysis of prestressed concrete, 24:28984(R) (GA-8420)
stress analysis of prestressed concrete reactor, dynamic relaxation method for, 25:31665 (EUR-4531, pp 735-57)
stress analysis of prestressed concrete reactor, numerical calculations methods for, 25:31666 (EUR-4531, pp 759-76)
stress analysis of prestressed concrete reactor, use of small-scale mortar model for, 23:24357
stress analysis of prestressed concrete reactor, with holes, dynamic relaxation method for three-dimensional, 24:16754
stress analysis of prestressed concrete, comparison of computer program calculated and model measured, (E/T), 24:18790(R) (GA-9488)
stress analysis of prestressed concrete, for fast reactors, 25:31553 (EUR-4531, pp 797-812)
stress analysis of prestressed concrete, for water cooled reactors, (E/T), 25:56991
stress analysis of prestressed concrete, model study for, (E), 24:29095 (ORNL-4346)
stress analysis of prestressed concrete, review of methods for, 24:26768
stress analysis of prestressed reactor, computer program for three-dimensional, 24:16180 (EUR-4280(Vol.1), pp 225-51)
stress analysis of radially sectioned cylindrical, 23:29045
stress analysis of reactor concrete, three dimensional, (T), 25:54075
stress analysis of reactor prestressed concrete, (T), 24:26845
stress analysis of reactor prestressed concrete, BODFO 2 computer program for, 23:21571
stress analysis of reactor prestressed concrete, with axial ribs, (T), 25:56990
stress analysis of reactor, computer programs for, 24:26764
stress analysis of rotational-symmetric cylindrical thick-walled concrete, computer program for, 24:14123 (EUR-4280(Vol.1), pp 253-71)
stress analysis of simulated reactor, during blowdown tests, 23:2053(R) (BNWL-885)
stress analysis of tapered transition joints in, TROIKA code for, 21:26810
stress analysis of thick-walled reactor, use of SEAL—SHELL-2 computer program for, 22:12484
stress analysis of Type A302-B steel, for boiling water power reactors, 23:24361
stress analysis of, STACE and STEREO computer programs for three dimensional finite element method for, 25:6458
stress analysis on, 23:36090
stress analysis, of reactor prestressed concrete, two-dimensional thermoelasticity computer program for, 23:21472
stress at juncture of nozzles and shell in, effect of nozzle spacing on, 21:34423
stress calculations for reactor prestressed concrete, dynamic relaxation method for, 25:56987
stress calculations for reactor prestressed concrete, approximate method for time dependent, 25:56988
stress concentration around holes in prestressed concrete, effect on vessel strength of, 23:11205
stress concentrations at openings in concrete, effects of ratio of penetration diameter to slab width on errors in calculation of, 24:7568
stress concentrations in nozzles of, effects of attachment configuration on, (E), 25:10244(R) (ORNL-TM-3212)
stress concentrations in stepped cylindrical, effects of fillet radii on, (T), 24:52951 (ORNL-TM-3122)
stress determination in cylindrical models of, (E), 22:27498
stress distribution in spherical, with single radial nozzles, 21:34420
stress distribution in thick-walled, photoelastic technique for determination of, 23:35438
stress distributions in small axisymmetric epoxy models of reactor prestressed concrete, accuracy of scattered-light photoelastic method for analysis of, 23:17283 (ORNL-TM-2444)
stress in nozzles and tees of, finite element method for analysis of, 23:33304
stress in prestressed concrete reactor, method for direct measurement of, 25:48705(P)
stress in prestressed concrete, method for measurement of compressive, 25:48707(P)
stress limits for clamp anchors of prestressed concrete reactor, measurement of vertical, 25:31663 (EUR-4531, pp 489-505)
stress response of prestressed concrete reactor, nonlinear analysis of, 25:31664 (EUR-4531, pp 697-734)
stress response of, determination by finite element incremental elastic—plastic analysis, 24:29474
stress testing of epoxy models of reactor, equipment and methods for, 24:19420 (ORNL-4512, pp 94-115)
stress testing of prestressed concrete, evaluation of scale models for, (E), 25:54308
stress testing of thick-section Type A533 steel reactor, equipment and methods for, 24:19420 (ORNL-4512, pp 94-115)
stress—strain characteristics of, under working conditions, derivation of equations for evaluation of, 24:44170
stress-analysis of, programs for, 21:25630(R) (ORNL-4071)
stress-relief annealing of reactor, 22:10430 (EURAEC-1762)
stress-relief annealing of reactor, 22:51140(T) (WAPD-Trans-95)
stresses and shakedown loads in, calculation of post-yield, 23:29057
stresses at openings in thin-walled cylindrical, photoelastic method for determination of, 22:2317 (TID-24106)
stresses in juncture of nozzle to cylindrical, method for determination of, 21:32298
stresses in liners of Melusine Reactor, measurement of, 21:42815 (NP-16838)
stresses in long cylindrical, steady pressure and transient thermal, 24:29970
stresses in long thick prestressed concrete, effects of differential thermal creep on, 23:39047
stresses in marine reactor, methods for analysis of, 25:1949
stresses in prestressed concrete cylindrical, approximate method for calculation of radial and tangential, 24:7567
stresses in prestressed concrete, dynamic relaxation method for calculation of, 23:39046
stresses in reactor prestressed concrete, finite element method for analysis of temperature effects on, 23:11217
stresses in reactor prestressed concrete, finite element method for analysis of, 23:11212
stresses in reactor steel, conference on methods for analysis of, 25:54053
stresses in reactor, static model tests for determination of, 23:23899
stresses in reinforced concrete, effects of shrinkage-induced, 21:23755
stresses in welded, measurement of residual, 24:51157 (ZJE-87)
stressing tendons in concrete, testing of lubricants for, 23:40959 (GAMD-9379)
structural behavior of heavy-section steel, for boiling water and pressurized water reactors, method for prediction of, 25:34827
structural behavior of prestressed concrete, methods for analysis of, 24:4050 (ORNL-4424, pp 101-241)
structural behavior of reactor, heavy section steel technology program on, 24:46071(R) (ORNL-TM-3061)
structural behavior of reactor, heavy section steel technology program on, 24:36051(R) (ORNL-TM-2984)
structural behavior of reactor, heavy-section steel technology program on, 24:11214(R) (ORNL-TM-2777)
structural characteristics of prestressed concrete, methods for analysis of, 25:5990(R) (ORNL-4589)
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, failure test data on, 22:22864 (TRG-Report-1204(Suppl.1))
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, concrete mix and prestressing cable specifications for, 22:22863 (TRG-Report-1204(Pt.5))
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, instrumentation, construction and tensioning, and testing methods for, 22:22861 (TRG-Report-1204(Pt.3))
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, calculation methods for prediction of long-term, 22:22862 (TRG-Report-1204(Pt.4))
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, (E/T), 22:22859 (TRG-Report-1204(Pt.1))
structural characteristics of spherical prestressed concrete, under pressure and temperature loading, test results on, 22:22860 (TRG-Report-1204(Pt.2))
structural fault location by acoustic triangulation in reactor, ACOUST-code for, 23:9241 (IDO-17280)
structural mechanics of prestressed concrete, 25:56882
support design for interlock in large spherical, 21:1226(T) (ORNL-tr-1310)
support design for Phenix Fast Reactor, 21:34082 (DRP/ML/FAR R-184)
support of, for prevention of shock and expansion damage, 21:1497(P)
support skirt for Bohunice Power Reactor Unit 1, thermal stresses during startup and shutdown in, 23:49524 (ZJE-46)
support skirt of reactor, thermal conductivity measurements in, (T), 22:1829
support structure failure on simulated reactor, during blowdown tests, 23:2053(R) (BNWL-885)
support structure for reactor, design of load-absorbing, 22:10097(P)
support structure for, stress due to axisymmetric load in, 23:9623
support structures for pressure tubes in, description of liquid-cooled, 22:25163(P)
support-skirt for, stress analysis for simulated earthquake asymmetric load on, (E/T), 23:11259
supports for large prestress concrete, calculation of stiffness of neoprene bearing pad for, (T), 23:52485 (GAMD-9375)
supports for large prestressed concrete, dynamic analysis of neoprene bearing pads for, (E/T), 23:52486 (GAMD-9404)
supports for prestressed concrete, design requirements of, 24:4167 (GAMD-9282)
supports for prestressed concrete, design requirements and seismic stress analysis of multiple column, 24:4166 (GAMD-9281)
supports for prestressed concrete, effects of seismic stresses on design requirements of, 24:4168 (GAMD-9283)
supports for reactor, design of prestressed concrete, 24:33833(P)
supports for, description of prestressed concrete, 24:53005(P)
surveillance analyses of steel, determination of reactor neutron fluence levels for, (E/T), 25:41622
surveillance of reactor steel, programs for analysis and critique of, 25:32761
surveillance program analyses for reactor steel, reliability of neutron fluence and embrittlement calculations in, (E/T), 25:44116
surveillance program for power reactor, description of proposed, 22:53341
surveillance programs in power reactors, ASME panel discussion of role of, 21:4390
surveillance test program for JPDR, description of, 22:37483
temperature control in prestressed concrete, description of permeable barrier coolant flow regulator for, 22:37591(P)
temperature distribution in heavy water moderated boiling power reactor one wall prestressed concrete, (T), 24:26758
temperature distribution in heavy water moderated boiling power reactor concrete, effects of design parameters on, 24:26759
temperature distribution in power reactor concrete, (T), 24:26760
temperature distribution in prestressed concrete, for heavy water moderated boiling power reactors, 25:60080
temperature distribution in reactor, computer programs for, 24:26764
temperature distribution in walls of reactor prestressed concrete, spatial, (T), 24:38531
temperature distribution in walls of reactor, effects of γ radiation heating on transient, (T), 24:36025
temperature distribution in walls of reactor, effects of cooling pump failure on transient, (T), 25:46261
temperature effects on prestressed concrete, 25:25975
temperature limitations for heat-resistant prestressed concretes used in, for reactors, 21:7861(R) (BMI-X-10180)
temperature requirements for thick wall stainless steel, analysis of transition, 24:33298
tendon fabrication for reactor prestressed concrete, 24:38392 (GAMD-10019)
tendon wires for prestressed concrete, testing of buttonhead anchorage for, 24:52742 (GA-10200)
tendons for 1000 MW(e) HTGR-type reactor prestressed concrete, failure testing of, 23:4166(R) (GA-7801)
tendons for prestressed concrete, corrosion protection of, 23:52268 (GA-9356)
tensile properties of ASTM A302B, A542, and HY-80 steel, effects of fast neutrons and hydrogen concentration on, 23:33117 (IN-1228, pp 1-19)
tensile properties of boiling water reactor, effect of design basis accident on, (T), 24:11210 (NEDO-10029)
tensile properties of concrete, review of, 24:46788
tensile properties of concretes for, under triaxial stress, 25:55660
tensile properties of prestressed concrete, model testing for, 22:33099 (ORNL-TM-2179)
tensile properties of Type A302-B steel for, effects of heat treatments on, 23:24915
tensile properties of, effects of radiation, static stresses, and cyclic stresses on, 21:38750
tensile strength of prestressed concrete reactor, use of models for measuring, (E), 23:51124
terminal failure behavior of, effect of low and high strength materials on, 21:16084 (SwRI-1228-1-36(Pt.2))
test program for liquid sodium fire Phase 2, results from initial, 23:23950 (AI-AEC-12744, pp 31-51)
testing by acoustic emission method, 24:46445 (UCRL-72582)
testing for characterization of Type A533 thick-section steel reactor, data summary on, 24:19419 (ORNL-4512, pp 7-69)
testing for embrittlement of stainless steel, ultrasonic, 22:11005 (BNWL-SA-1467)
testing for radioinduced embrittlement in, design of ultrasonic equipment for, 22:40493
testing half-scale steel, fracture, 22:42997 (SwRI-1228-P-5-46)
testing in USSR of prestressed ferro concrete, 24:11200(T) (JPRS-49481)
testing of 7.5m ID prestressed concrete, 21:14365(T) (ORNL-tr-1568)
testing of Bugey Reactors (EDF-5) prestressed concrete, 24:11102(T) (ORNL-tr-2250)
testing of concrete, instrumentation and methods for, 25:29299
testing of cylindrical model prestressed concrete, evaluation of pressure and thermal, 23:11209
testing of Dodewaard reactor, methods for nondestructive, 24:9066
testing of gas cooled power reactor steel, 24:28880
testing of half-scale model of SEFOR, for coolant flow and vibration characteristics, (E), 22:22696 (GEAP-5440)
testing of heavy-section epoxy models of, under complex stress, 25:13658 (ORNL-4590, pp 135-232)
testing of heavy-section steel, method for fatigue, 25:32752(R) (ORNL-4653)
testing of heavy-section steel, to 30,000 psig and -50 to 350°F, equipment and plans for, 24:32375 (ORNL-TM-2849)
testing of high temperature gas cooled reactor prestressed concrete, 21:44830(R) (GA-7396)
testing of Hinkley Point 2 and Hunterston Reactors prestressed concrete, 23:37397
testing of model for prestressed concrete, for 600 MW(e) Scandinavian reactor, 23:37496
testing of model prestressed concrete, for Oldbury reactor, 23:11131
testing of nuclear power plant, nondestructive methods for, 25:6501
testing of one-fifth scale models of prestressed concrete, 25:29310
testing of one-fourth scale models of prestressed concrete, under pressure and thermal loads, 25:29313

testing of one-tenth scale models of prestressed concrete, 25:29312
testing of one-tenth scale models of prestressed concrete, 25:29311
testing of prestressed concrete models of, methods for, 25:29302
testing of prestressed concrete power reactor, 24:11102(T) (ORNL-tr-2250)
testing of prestressed concrete, conference on, 24:16318 (EUR-4280(Vol.1))
testing of prestressed concrete, results of scale model, 24:16322 (EUR-4280(Vol.1), pp 355-92)
testing of prestressed concrete, under pressure and thermal loads, 25:29309
testing of prestressed concrete, using models, 25:29314
testing of prestressed concrete, using small-scale models, 25:29305
testing of reactor prestressed concrete, use of scale models for, 23:11208
testing of reactor, acoustic emission method for flaw detection in nondestructive, 22:51276(R) (IDO-17269)
testing of reactor, criteria for nondestructive, 24:9614
testing of reactor, design changes to permit in-service nondestructive, 24:14212
testing of reactor, discussion of economics of, 25:37554
testing of reactor, remote-controlled ultrasonic method for, 25:37552
testing of reactor, testing of nondestructive methods for, 21:28799(R) (HW-79345)
testing of single- and multi-layered steel, for bursting strength, 24:19180
testing of small, for temperature-dependent measurements in plutonium—aluminum fueled lattices, 23:17265(R) (GA-9051)
testing of SNAP-21A, 22:28014(R) (MND-3322-7)
testing of SNAP-21A, hydrostatic pressure method for, 22:23223 (MND-3322-25(Vol.2))
testing of specimens from thick-walled welded, equipment and method for destructive, 24:46446 (ZJE-82)
testing of spherical, for structural flaws, computer program for acoustic emission triangulation method for, 24:25230 (IN-1369)
testing of steel, for hydrogen storage, 21:9054 (LA-3602)
testing of steel, for primary containment system at Fukushima Power Reactor, 23:28364
testing of steel, studies of acoustic emission method for, 24:33853 (TRG-Report-1983)
testing of THTR prestressed concrete, description of, 24:16181 (EUR-4280(Vol.1), pp 341-54)
testing of, acoustic emission method for, 21:1533(R) (UCID-4868)
testing of, comparison of methods for nondestructive, 24:9615
testing of, equipment and methods for nondestructive, 21:28798(R) (HW-78760)
testing of, use of Dextir data acquisition system for monitoring large numbers of strain gages for, 22:21380 (ORNL-4219, pp 61-7)
testing programs for water cooled reactor, review of heavy section steel, 25:48294
testing steels for, methods for fracture toughness, 22:19512 (BNWL-455, Paper 8.1-6)
testing welds in, review of methods for, 22:40343
thermal barrier design for concrete, to prevent overheating, 22:6180(P)
thermal barrier for Peach Bottom Power Reactor Unit 1, photographic inspection of 168 and 300 equivalent full-power day operation effects on, 23:28361 (GAMD-8212)
thermal barrier of prestressed concrete, stress testing of stud attachment fixtures for, 24:28986(R) (GA-9130)
thermal cycling of Halden reactor, 21:31943(R) (NP-16803)
thermal insulation for boiling reactor concrete, description of water-cooled, 22:37495(P)
thermal insulation for boiling water power reactor prestressed concrete, design characteristics of metal foil, 23:28472
thermal insulation for concrete reactor, mechanical properties of kaowool, microquartz, refrasil, and siltemp, 24:3051 (GAMD-9074)
thermal insulation for concrete, for gas-cooled reactor, 25:49591(P)
thermal insulation for concrete, method of producing, 23:18262(P)
thermal insulation for Fort St. Vrain Power Reactor Unit 1 prestressed concrete, testing of barrier type, 23:47169(R) (GA-9440)
thermal insulation for gas cooled power reactor prestressed concrete, development of gas wall, 23:37492
thermal insulation for gas cooled reactor prestressed concrete, description of ceramic or glass, 24:9102(P)
thermal insulation for helium-cooled reactor, performance evaluation of, 25:30030 (EUR-4531, pp 931-52)
thermal insulation for Oldbury reactor prestressed concrete, design and development of stainless steel foil, 23:11146
thermal insulation for power reactor prestressed concrete, development of, 22:53303
thermal insulation for prestressed concrete reactor, design of, 24:41601 (EUR-4471)
thermal insulation for prestressed concrete, description of stainless steel pad—foil sandwich, 22:44830(T) (ORNL-tr-1966-c)
thermal insulation for prestressed concrete, description of screen type, 24:52912(P)
thermal insulation for prestressed concrete, thermal conductivity of materials for, (E), 22:24999
thermal insulation for prestressed concrete, with compressible spacers between superposed sheets, 24:36024(P)
thermal insulation for reactor prestressed concrete, design of fluid cooled porous fabric, 24:47977(P)
thermal insulation for reactor prestressed concrete, design of laminated porous, 25:20727(P)
thermal insulation for reactor prestressed concrete, survey of materials and design of, 25:37006 (ORNL-TM-2929)
thermal insulation for reactor prestressed concrete, use of gas filled chamber for, 24:47976(P)
thermal insulation for reactor, design of, 23:19899(P)
thermal insulation for reinforced concrete, for gas cooled reactors, 25:51079
thermal insulation for, description of corrugated foil partitions for, 24:9166(P)
thermal insulation for, description of interlocking V-shape seals for multiple metal sheets, 22:37592(P)
thermal insulation for, description of nonvertically-seamed multiple block external, 22:53475(P)
thermal insulation for, design of stainless steel-fluid packs for, 21:46988(P)
thermal insulation materials for, development of, 24:14992 (EUR-4280(Vol.1), pp 121-33)
thermal insulation of gas cooled power reactor prestressed concrete, optimum design characteristics for, 23:28473
thermal insulation of gas cooled reactor prestressed concrete, design characteristics of, 23:28471
thermal insulation of prestressed concrete reactor, performance of metallic cloth and foil for, 23:6257
thermal insulation of prestressed concrete, conference on, 24:5521 (EUR-4280(Vol.2))
thermal insulation of prestressed concrete, performance of, 25:53905 (A/CONF.49/P-571)
thermal insulation of reactor prestressed concrete, wall system with trough-like shelves for, 24:36093(P)
thermal insulation of reactor, in-vessel inspection of, 24:35955(R) (GA-10099)
thermal insulation of, description of tapered-end bend-positioned spacers for, 23:9252(P)
thermal ratchetting in cylinder shaped, (T), 25:54311
thermal shields for reactor, design of, 21:28740(P)
thermal shock limits for coolant loss accidents in water cooled power reactor, standards for, 25:28683
thermal stress analysis and design requirements for prestressed concrete, 24:11336
thermal stress effects on long-term behavior of prestressed concrete, (E), 24:50102 (CONF-700401-, pp 403-31)
thermal stress effects on top slab of EDF-5 prestressed concrete, (E/T), 24:38398
thermal stress limits for prestressed concrete, for heavy water moderated boiling power reactors, 25:60081
thermal stresses in concrete, calculation of, 24:44827 (CEA-CONF-1371)
thermal stresses in heavy water moderated boiling power reactor prestressed concrete, 24:26762
thermal stresses in pressurized water reactor, analysis of steady-state, 23:26421
thermal stresses in reactor prestressed concrete, use of model structure to determine, 23:11206
thermal stresses in reactor prestressed concrete, calculation of long-term, 23:11216
thermal tests of reduced scale model of prestressed concrete, 21:1184(T) (ORNL-tr-1350)
thermoviscoelastic analysis of prestressed concrete, 25:16622
thickness transitions for cylindrical, with hemispherical heads, 21:30600
transient displacements and stresses in, effect of radial and torsional motion on, 21:6102
transport of Palisades Power Reactor, description of mobile heavy-lift equipment and techniques for, 23:23837
tube and header arrangement in superheating reactor, description of, 22:33115(P)
tube and header arrangement in superheating reactor, description of, 22:33116(P)
tube and header arrangement in superheating reactor, description of, 22:33117(P)
tube and header arrangement in superheating reactor, description of, 22:33114(P)
tube plates for reactor, fabrication method for, 22:10474(P)
ultrasonic inspection of irradiated steel, method for, 22:12556 (BNWL-473, pp 10.1-12)
use for sterilization of medical utensils, comparison of, with use of radiosterilization, 21:20456 (RISO-140)
use in high temperatore reactor lattice physics measurements, feasibility of, 21:30138(R) (GA-7934)
use of prestressed concrete in reactor, 23:26426
valves for BWR-type power plant, design of safety, 25:57637
vibration of gas-cooled reactor, by sound in contained gas, 24:44168
vibration of reactor, under earthquake conditions at Brasimone, Italy, (T), 24:29402 (RT/ING-(69)23)
vibration tests on pressurized water power reactor, 25:48137 (UCLA-ENG-7095)
void fraction profile in water cooled reactor, analysis of blowdown actuated, (E/T), 24:29035 (BNWL-1295)
water blowdown from nozzle in pressurized, prediction of coolant pipe failure from measurements of, 24:44185 (BNWL-1411)
water-height measurements in high-pressure high-temperature, use of time domain reflectometer for, 21:45345(R) (IDO-17234)
weld failure in water reactor, metallographic studies of, 25:49452
welded joints in reactor, radiographic inspection of, 23:21915
welding methods for, 21:4920
welding of heavy-plate A302B steel, submerged arc method for, 23:14313
welding of nuclear power plant, standard method for, 25:45024
welding of power reactor, procedures for, 21:22852(T) (AEC-tr-6854)
welding of reactor, problems and requirements for, 25:37940
welding of steel, review of electroslag method for, 25:19181
welding of, codes and standards for, 21:9088 (ORNL-P-2615)
welding of, effects of materials and processes on, 24:10023
welding procedures for first Czechoslovakian nuclear power plant, 22:7812 (NUCLEX-66, Paper 4)
welding procedures for Type A302B thick-wall, 22:52149
welding qualifications for, standard for, 25:42850 (RDT-F-6-5-T)
weldments on Type A302B steel, effects of flaws on fatigue strength of, 25:16443 (SwRI-1228-P-2-47)
welds in Dodewaard Power Reactor, ultrasonic inspection of, 23:52289
welds in reactor, equipment for automatic ultrasonic inspection of, 25:12790
welds in reactor, system for automatic ultrasonic inspection of, 25:44111 (CONF-700224-, Paper 6)
welds in reactor, ultrasonic inspection of, 24:25236
welds in, low cycle fatigue behavior of dissimilar, 21:34422
welds in, review of fracture mechanisms in, 25:4781
welds in, ultrasonic testing of, 23:17721
welds of thick plates for, methods for inspection of, 22:40342
windows for, properties of sapphire, 25:11488 (KFK-1211)

PRESSURE WAVES
production in fissioning gases in tubes, (T), 23:39359
propagation characteristics of compression and rarefaction, in steam—water mixtures, (E), 24:19156
propagation in two-phase bubble flow with heat addition, characteristics method for calculation of, 24:19157
propagation of atmospheric, from low-altitude nuclear explosions, (E), 25:51659 (AD-720853)
propagation of extremely low frequency atmospheric, from atmospheric nuclear explosions, (T), 25:51657 (AD-716601)

PRESSURIZED HEAVY WATER REACTOR
fuel cycles for, 21:15644 (CONF-660221-, pp 283-6)

Pressurized-Water Reactors
see Reactors, Pressurized-Water

PRESSURIZERS
see also Compressors
design of liquid surge reservoirs, 21:25693(P)
design of power reactor, in Switzerland, 25:7932
design of, for pressurized water reactors, 21:19434(P)
development for NERO Reactor, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
dynamics in pressurized-water reactors, 22:32804
electric heater and connector assembly for, standards for, 25:57030 (RDT-E-5-2-T)
equilibrium in water reactor, thermodynamic models of, 22:4348
fabrication of Beznau Power Reactor Unit 1, 23:21438
fabrication of power reactor, in Switzerland, 25:7932
optimization of reactor, economic aspects of, 21:15792
performance in pressurized water reactors, 21:22072
performance in pressurized water reactors, effects of bubble rise and condensate drop dynamics on, (T), 24:36030
performance of power reactor, in Switzerland, 25:7932
performance of Shippingport Pressurized-Water Reactor, during load drop tests, 21:38501
performance of Shippingport, comparison of results from TOPS computer program and experiment during load loss of, 22:18480
performance of, method for prediction of, (T), 24:31062
pressurized water reactor, description of, 23:13493(P)
pressurized-water power reactors closed-loop dual-pressure heated, description of, 23:15646(P)
standards for electrically heated, for pressurized water reactors, 25:57029 (RDT-E-5-1-T)
steam pressure regulation in water-cooled reactor primary circuit, use of heat exchanger for, 22:42265(P)
substitution of feed and bleed system for, in PWR, 21:15671
transient behavior of pressurized water reactor, effect of load changes on, (E/T), 24:18634 (RCN-112)

PRETHROMBINASE
activity in blood vessels, of rabbits during radiation sickness, 22:8437

PRICEITE
use in preparation of resin-matrix shielding materials, 22:15549(P)

Primates
see common names for specific animals, or Mammalia for general references

PRIMENE JM-T
Primene JMT—TBP, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)
Primene JMT—trioctylphosphine oxide, solvent properties for zirconium in nitric acid solutions, 23:19813 (AECD/CH-12)

PRINCETON SYNCHROTRON
(Princeton Univ. - Pennsylvania Univ. Proton Accelerator)
acceleration of deuterium and helium ions in, 23:27964
beam acceptance in, nonsinusoidal accelerating voltages for improving, 23:28057
beam degeneration in, effects of hf components of ordinary shot noise on, 21:13764 (PPAD-609-D)
beam extraction magnet for, design details of, 21:4168
beam extraction system of, performance of, 21:38079
beam injector for, design of high-current 75-MeV booster synchrotron, 23:28174
beam injector for, proposal for 75-MeV alternating-gradient synchrotron booster for use as, 22:37233 (PPAD-646-D)
beam monitoring system for, design of tuned cavity, 22:32364 (PPAD-640-E)
beam monitoring systems at, description of, 22:46675
beam targeting at, techniques for, 21:33804 (PPAD-620-E)

  control system for, analog data break interface for on-line, 24:24468 (PPAD-669-E)
  control system for, analog data break interface for PDP-9 computer, 24:40537
  description of, 24:35750
  design modifications for accelerating heavy ions and increasing proton currents in, 24:30658
  design modifications of, for heavy-ion acceleration, 23:52050 (PPAD-666-D)
  development for acceleration of heavy ions, 25:5462 (PPAD-676-E)
  development, 1968, 23:21034 (PPAR-9)
  experimental facilities for, for nuclear research, 24:52346
  experimental facility for, on-line isotope separator, 24:45709
  experimental facility for, on-line PDP-9 computer for missing mass spectrometer, 25:28135
  ion source for, PIG heavy, 25:50284
  magnet flat-topping for, procedures for, 21:38055
  magnet flat-topping of, engineering details for, 21:994 (PPAD-597-D)
  magnet system for, calculations for strong focusing additions for, 23:25730 (PPAD-657-D)
  magnet system for, design of rapid cycling flat-topped, 25:50483
  neutron flux in labyrinth of, from proton reactions with lead at 3 GeV, 23:28076
  operation and uses of, review on, 23:49237 (PPAD-662-E)
  phase space acceptance in, use of nonsinusoidal accelerating voltage to increase, 23:15303 (PPAD-649-E)
  power supply for, use of saturable reactors in nonregulated dc, 21:19990 (PPAD-616-D)
  radiation dosimetry and monitoring at, 23:17026 (PPAD-654-E)
  research using, 1963 to 1971, 25:45627 (PPAR-24)
  targets for, destructive testing of hydrogen, 22:29793
Priscilla Burst
    see Plumbob Operation
PRO REACTOR
  control rod drives for, testing of, 21:5631 (RT/ING-(66) 4)
  cooling system, heat transfer variations in, 21:21720
  core design of, 21:21706
  core design of, instrumentation for, 21:21707
  development, 21:21719
  fuel processing plant design for, 21:21708
  in-pile loop design, 21:21721
  physics parameters of, codes for, 21:21700
Probability
    see Statistics
PROBENECID
  effects on renal filtration of indium-113m-labeled iron compounds in man and rats, use of, in scanning, 23:50707
Probes (Electric)
    see Electric Probes
Probes (Electron)
    see Electron Probes
Probes (Magnetic)
    see Magnetic Probes
PROCAINE
  distribution of, in blood cells and plasma following radiation, 21:10801
  effects of intraarterial injection of, on course of acute radiation sickness in x-irradiated rabbits, 21:8853
  effects of, on removal of ruthenium oxide particles from lungs of rats, 21:14531 (BNWL-280, pp 65-6)
  effects on blood pressure of irradiated rats, 22:19364
  effects on blood pressure of partially x-irradiated animals, effects of dose on, 24:32215
  effects on cardiovascular and respiratory responses of cats, effects of cystamine on, 22:31245
  effects on gold-198 metabolism by rats, 23:22170(T) (AEC-tr-6944, pp 165-77)
  effects on heart beat following whole-body x irradiation, 21:28372
  effects on heart rhythm of x-irradiated rabbits, 21:24583
  effects on immune reactions to injected bacterial endotoxins in mice, 21:18163
  effects on iodine-131 clearance from rabbits, effects of adrenaline and noradrenaline on, 23:35627
  effects on isolated rat hearts following whole-body x-irradiation, 25:26798
  hydrochloride effects on radioresistance of animals and plants, 21:14127(R) (NP-16420)
  hydrochloride, effects on survival of γ-irradiated Escherichia coli, 25:24478
  radation effects on action of, in central nervous system of rabbits, 25:13561
  radioprotective effects of, on human skin during radium therapy, α, 22:28549
  radiosterilization of, effects of, on biological activity, γ, 22:52105
  use of, combined with hyaluronidase and hydrocortisone for treatment of radioinduced fibrosis, 21:12907
Procedures
    see Equipment and Procedures
Process Development Pile
    see Savannah River Reactor Mockup
PROCESS EQUIPMENT
    (See also particular kinds and components of equipment.)
  control of, use of multichannel analyzers with radiometric gages for, 23:38339
  description of computerized, 23:38373
  design for conversion of uranium oxides to uranium hexafluoride, engineering drawings for, 25:34782
  design for particle size monitoring using x-rays, 25:21241
  design for production of polymers by radioinduced polymerization, 24:2354(P)
  design for reduction of uranium tetrafluoride to metal by magnesium reactions, 23:24857(R) (NLCO-995)
  design of plutonium, 22:8201
  design of plutonium processing facility, engineering drawings for, 25:34784
  development at ORNL, Sept. 1969—Aug. 1970, 25:13318(R) (ORNL-4620)
  development at Risoe, Oct. 1, 1969—March 31, 1970, 25:13321 (RISO-M-1270)
  development of nuclear analysis techniques for on-line, 22:21236 (ORO-2980-16)
  duct closure for, design of, 25:8458(P)
  dynamics analysis of, computer program for off-line, 23:40506 (AEEW-R-543)
  instrumentation and control systems at ORNL, development of, 24:7693 (ORNL-4459, pp 57-78)
  performance of continuous, 22:25442 (ANL-7375, pp 19-45)
Processes
    see Separation Processes
Processing Plants
    see Radiochemical Processing Plants
PROCLORPERAZINE
  use for treatment of nausea following radiotherapy, 22:45599
PRODIGIOSINE
  effects on γ-radiosensitivity of Serratia marcescens, 24:48758
  effects on Serratia marcescens, photosensitizing, 22:52047
  radioprotective effects of, on mice, lethal whole-body cobalt-60 γ, 25:6713
Producer Gas
    see Manufactured Gas
Production Reactors
    see Reactors, Production
PROFERRIN
  effects on x-radioinduced saccharin aversion in rats, 23:907
Proflavine
    see Acridine, 3,6-Diamino-
Progesterone
    see under Hormones, Sex
Projects
    see Operations and Projects
PROLINE
  analysis of, for tritium, 21:5776
  chromatographic mobility of, effects of carbon-13 and tritium on, 21:38936
  determination of carbon-14-labeled, in ninhydrin reaction products from amino acid analyzer by scintillation counting, 22:37659
  effects on cobalt-60 uptake by liver cells, 21:20079
  effects on γ radiolysis of 3,3'-dioxo-[Δ/sup 2,2'/-biindoline]-5,5'-disulfonic acid in aqueous solutions, 23:13740 (BNWL-715(Pt.2), pp 151-79)
  effects on zinc-65 uptake by liver cells, 21:20079
  incorporation of carbon-14-labeled, into salt-soluble skin collagen of control and scorbutic guinea pigs, 21:22477 (BNL-994, pp 124-39)
  incorporation of, labeled with carbon-14 by growing explants of carrot and potato, effects of growth inhibitors on, 21:14595
  metabolism in bones and cartilage following injection into young rats, tracer study of, 23:50299
  mutations for deficiency of, induced in Escherichia coli by radiotoxins, 22:51522
  nitrogen-15 content of, in wheat kernels, 22:14968
  polymers, radiation chemistry of, in aqueous solutions, 22:8675
  polymers, spectra in heavy and light water solutions as function of temperature, ir, 22:2057
  radiation effects on acceptor function of RNA specific to, x, 22:23421
  radiation effects on content and distribution of, in gastrointestinal walls of rabbits, x, 21:4763
  radiation effects on content of, in beagle dog lungs following inhalation of insoluble cerium-144, relation of pulmonary fibrosis to β and γ, 25:29622 (LF-43, pp 218-23)
  radiation effects on content of, in wool in nitrogen and oxygen atmospheres, γ, 23:6185
  radiation effects on metabolism of carbon-14-labeled, in wounds of rats, 23:16420
  radiation effects on tritium exchange in solutions of, 23:20120
  radiation effects on uptake of carbon-14-labeled L-, by cultured guinea-pig skin, microwave, 24:27545
  radiation effects on uptake of, by cultures of guinea pig skin, laser, 22:30962
  radiation effects on uptake of, by skin of guinea pigs in vitro, tracer study of microwave, 23:2941
  radioinduced decomposition of, by electron burning, effects of tritiated water on, 21:25884
  radioinduction of Aspergillus mutants requiring, uv, 21:16332
  radiolysis in aqueous nitrobenzene solutions, ESR spectral studies on effects of nitrous oxide on production of reducing radicals by γ, 23:49816 (BNWL-1051(Pt.2), pp 161-2)
  radiolysis of aqueous solutions of, γ, 22:48881
  radioprotective effects of, against mutations in bone marrow cells of mice, effects of calcium chloride and parathyroidin on x, 21:36665
  reactions of tritium-labeled, with enzymes, spurious isotope effects in, 22:37756
  spectra of, effects of deuterium on ir and Raman, 25:2190
  toxicity of tritium-labeled, in Escherichia coli, 22:51458
  use of carbon-14-labeled, as indicators of bone metabolism in rats, 21:6417
PROLINE, HYDROXY-
  content of lungs of rabbits, effects of plutonium on, 23:4869
  content of urine of dogs in relation to radium-226 effects on bone metabolism, 24:29869 (UCD-472-116, pp 108-9)
  excretion in swine, effects of age on, 23:2741(R) (COO-1339-22)
  excretion in urine of man, effects of estrogen on, 23:8016(R) (ACRH-29)
  proline incorporation into, of skin collagen of mice, tritium tracer study of, 24:51034
  radiation effects on content of, in beagle dog lungs following inhalation of insoluble cerium-144, relation of pulmonary fibrosis to β and γ, 25:29622 (LF-43, pp 218-23)
  radiation effects on content of, in dog urine in relation to bone metabolism, radium-226 α and γ and strontium-90 β, 23:12204 (UCD-472-115, pp 39-44)
  radiation effects on content of, in human dermal collagen in vitro, uv, 23:43691
  radiation effects on content of, in lungs of rats, x, 22:10825 (BNWL-480, pp 55-83)
  radiation effects on excretion of, in urine of rats, effects of dose and dose fractionation on, 24:50752
  radiation effects on formation of, in dermal collagen of man, effects of dipyridyl on uv, 25:24447
  radiation effects on release of, from collagen in granulomas of rats, x, 25:24396
  radiolysis in aqueous nitrobenzene solutions, ESR spectral studies on effects of nitrous oxide on production of reducing radicals by γ, 23:49816 (BNWL-1051(Pt.2), pp 161-2)
  radiolysis of aqueous solutions of, γ, 22:48881
PROLINE, 4-HYDROXY-1-L-PROLYL-
  determination in urine by isotopic dilution method, 23:13653
PROLINE, 4-HYDROXY-1-(TRIFLUOROACETYL)-
  decomposition of carbon-14-labeled alkyl esters of, during gas-liquid chromatography, 23:28933
PROLYL-tRNA SYNTHETASE
  activation of amino acid analogues by, 22:20982(R) (COO-1498-4)
PROMAZINE
  effects on leukopenia induced in rabbits by toxin extracted from x-irradiated blood cells, 22:19437
PROMETHAZINE
  effectiveness for removal of plutonium-239 from rats, 24:34298 (BNWL-1050(Pt.1), pp 5.11-14)
  effects on sodium-24 permeability from blood into tissues of cats, 22:49258
  effects on survival of x-irradiated rats, 21:14748
  effects on uv-radiosensitivity of skin, 22:40770
  radiation effects on pharmacodynamic action of, in dogs and rabbits, 21:4851
  radioprotective effects of, on resistance of mice to asphyxia, x, 23:16348
  radioprotective effects on mice, combined effects of dolantin and megaphene on x, 21:36631
PROMETHIUM
    see also Rare Earths
  abundance in atmosphere of HR 465, (E), 25:24685
  abundance on surfaces of peculiar A stars, (E/T), 25:58462
  bibliography on analytical chemistry of, 25:15470
  book: Analytical Chemistry of Technetium, Promethium, Astatine, and Francium, 25:15470
  chemical bond formation by, participation of f-electrons in, 24:13835
  chemistry of, 22:25322 (BMwF-FBK-68-03)
  chemistry of, review on, 24:38895
  compatibility with refractory capsule at 400 to 1000°C, 24:39139(R) (BNWL-1308-2)
  complexes of trivalent, in chloride solutions, 24:41247(T) (ORNL-tr-2342)
  complexes of, with organic acids and 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, extraction and stability constants for, 21:10339
  complexes of, with phosphate ions, properties of, 21:3057
  complexes with [(carboxymethylimino)bis(ethylenenitrilo)]tetraacetic acid, stability constants for, 22:30578
  complexes with (1,2-cyclohexylenedinitrilo)tetraacetic acid, ion exchange affinity of, 22:23097 (INR-P-860/VIII/C)
  complexes with [ethylenebis(iminoisopropylidene)] diphosphonic acid, electromigration study of, 23:127
  complexes with 2,2,6,6-tetramethyl-3,5-heptanedione, preparation of, 23:26338(P)
  complexes with 8-quinolinol, stability of, 24:39033
  complexes with cyclopentadiene, preparation and crystal structure of, 24:1823 (ORNL-4437, pp 20-39)
  complexes with cyclopentadiene, preparation using cyclopentadienylpraseodymium and promethium-147, 23:31329
  complexes with EDTA, separation by ion exchange, effects of resin crosslinking on, 25:10665 (INR-P-1209)
  complexes with EDTA, stability of, 25:21084 (SRARI-P-75)
  complexes with methylphosphonic acid, thermodynamic stability constants for, 21:32172
  complexes with N-phenylbenzohydroxamic acid, formation of, 22:33332
  complexes with sulfates, stability constants for, 21:19639
  complexes with sulfates, thermodynamic properties of, 21:19638
  complexes with trimetaphosphoric acid, stability constants for, 21:32177
  complexes, separation factors and stability constants for, 24:16537
  compounds of, preparation and crystal chemistry of, 22:2018(R) (BMwF-FBK-67-76)
  compounds, preparation and structure of, 22:25322 (BMwF-FBK-68-03)
  crystal chemistry of, 22:2018(R) (BMwF-FBK-67-76)
  crystal structure model of, 22:23835
  crystal structure of, 25:42893
  crystal structure of, 23:43319
  crystal structure of, comparison of layer stacking sequence with promethium trialuminide, 22:2650
  density and melting point of, 23:14304 (BNWL-959)
  detection in Ap star HR 465, (E), 25:6936
  determination by ion-focusing electrophoresis and counting, 24:16451

- determination in abukumalite, 25:31815
- determination in high-burnup plutonium dioxide fuel by gamma spectrometry, 25:18356 (KR-140)
- determination in irradiated thorium dioxide—uranium dioxide fuel, separation procedures in, 22:37641(R) (BAW-3809-2)
- determination in irradiated thorium dioxide—uranium dioxide fuel rods, method for, 24:36163 (BAW-3809-7)
- determination in rare earth minerals by x-ray fluorescence spectrometry, 23:35
- determination of trace amounts of, in soils by neutron activation and ion exchange separation, 23:13671 (CEA-CONF-1183)
- determination using cetylpyridinium bromide and Xylenol Orange, spectrophotometric, 22:8017
- diffusion in quartz tube with temperature gradient, 24:2285
- diffusion of fission-product, in dense sintered aluminum oxide, 22:2693
- distribution between 8-quinolinol and sodium perchlorate solutions, 24:39033
- distribution in hydrochloric acid, coefficients for, 22:42625
- electron binding energies of, determination from photoelectron spectra, 24:21551 (UUIP-635)
- energy levels of neutral, electronic, (E), 22:26249
- energy levels of, effects of intra-atomic magnetic interactions on, (T), 22:29227
- fabrication methods for, for use in heat sources, 22:2305 (BNWL-SA-1309)
- hardening and recrystallization of, effects of impurities on, 22:4756
- hardness of, 25:42893
- hydrolysis in hydrochloric acid—potassium chloride solutions, constants for, 23:40610 (CEA-N-1044, pp 331-80)
- ionization potential of, surface ionization comparison measurement of first, 22:24458
- ionization potentials of, 22:14431 (ORNL-4196, pp 59-62)
- melting point anomalies of, 21:26825
- occurrence in V Cnc and T Sgr, evidence for, (E), 25:40211
- oxidation potential for trivalent—tetravalent, 25:57437
- preparation and properties of, 23:38173(R) (BNWL-1085)
- preparation and properties of metallic, 23:24379(R) (BNWL-1010)
- preparation of, 22:2018(R) (BMwF-FBK-67-76)
- production from irradiated blanket elements, 23:35128 (BNWL-SA-1492)
- properties of, data sheets on chemical, mechanical, and physical, 24:31590 (BNWL-1309)
- purification by ion exchange using nitrilotriacetic acid as eluting agent, 25:200 (CONF-700403-(Vol.1), pp 246-56)
- purification by ion exchange, comparison of eluting agents for, 23:49913
- purification by ion exchange, properties of NTA as replacement for DTPA in, 22:16642 (BNWL-680, pp 7-12)
- purification by two-step cation exchange process using DTPA and NTA, 23:40793 (BNWL-1072)
- purification of, continuous flow counter-current mixer-settler process for, 25:204 (CONF-700403-(Vol.2), pp 762-73)
- purification of, effects of feed dilution on, 23:24379(R) (BNWL-1010)
- radioecology in hydrobiological systems, review of, 23:43715 (CEA-Bib-138)
- separation and purification of fission product, from irradiated fuels by ion exchange, 25:48588
- separation by solvent extraction using phosphoorganic compounds, spectral studies on effects of extraction structure on, 22:6412
- separation from actinides and other rare earths by electrophoretic focusing, 21:34321(T) (ORNL-tr-1717)
- separation from aqueous chloride solutions by solvent extraction using cyclooctylphenylphosphinic acid or octylphenylphosphinic acid, 25:4147
- separation from aqueous chloride solutions by solvent extraction using dioctyl phosphate in benzene or heptane, effects of variables on, 25:13096
- separation from aqueous Savannah River fuel reprocessing wastes by batch solvent extraction, 25:54739
- separation from aqueous solution by solvent extraction using TBP, effects of salicylic acid on, 23:49918
- separation from aqueous solutions by precipitation as hydroxide, kinetics of electrolytic, 25:256
- separation from aqueous solutions by solvent extraction using bis(2,2-dimethylhexyl) phosphate, 25:10679
- separation from carboxylic acids and mixtures with aminopolyacetic acids by solvent extraction using bis(2-ethylhexyl) phosphate, 22:16663
- separation from cerium and yttrium by solvent extraction, 21:40771 (HW-64619)
- separation from europium and yttrium by ion exchange using (1,2-cyclohexylenedinitrilo)tetraacetic acid, 22:23097 (INR-P-860/VIII/C)
- separation from europium by ion exchange chromatography, 22:37856
- separation from fuel reprocessing wastes by sorption on manganese dioxide followed by anion exchange elution, 25:29176 (BARC-516)
- separation from hydrochloric acid by solvent extraction using chloroform—N-phenylbenzohydroxamic acid system, 23:11400 (GAT-525)
- separation from irradiated fuels, 23:47604
- separation from irradiated fuels by ion exchange, 23:47582 (BNWL-SA-1945)
- separation from irradiated fuels by solvent extraction and cation exchange, 23:35128 (BNWL-SA-1492)
- separation from irradiated targets by cation exchange using alternately DTPA and NTA, 23:40793 (BNWL-1072)
- separation from irradiated thorium dioxide—uranium dioxide fuel by chromatography and ion exchange, 22:17185(R) (BAW-3809-1)
- separation from low-activity wastes by chromatography, 25:37458 (IAEA-R-341-F)
- separation from methylphosphonic acid by ion exchange, 21:32172
- separation from mineral acids by solvent extraction using bis(2-ethylhexyl) phosphate, 22:16663
- separation from neodymium and praseodymium by ion exchange chromatography, 23:405
- separation from neodymium and samarium by displacement chromatography using [(carboxymethylimino)bis(ethylenenitrilo)]tetraacetic acid, EDTA, and nitrilotriacetic acid, 25:54723
- separation from neodymium and samarium by ion exchange, 22:2188
- separation from neodymium and samarium by ion exchange, 22:33488(T) (WAPD-Trans-89)
- separation from neodymium by ion exchange, 22:21121
- separation from neodymium by ion exchange, 22:23068
- separation from neodymium by ion exchange, 22:25440(R) (MLM-1443)
- separation from neodymium by ion exchange using α-hydroxyisobutyric acid as eluent, 22:23120
- separation from neptunium and plutonium by ion exchange chromatography on zirconium phosphate, 25:57550
- separation from nitrate reprocessing wastes by solvent extraction using TBP, 25:211 (DP-1236)
- separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
- separation from nitric acid by solvent extraction using TBP as function of temperature, thermodynamics of, 24:20861
- separation from nitric acid solution by ion exchange on irradiated and nonirradiated resins, 21:40914
- separation from other elements by ion exchange using titanium hexacyanoferrate(II), 21:30518
- separation from other rare earth fission products by ion exchange using (ethylenedinitrilo)tetraacetic acid, effects of lactic acid on, 21:25941
- separation from other rare earths as EDTA complex by ion exchange, effects of resin crosslinking on, 24:44076
- separation from other rare earths by anion exchange chromatography, 23:45387
- separation from other rare earths by cation exchange chromatography, 23:35130 (DP-1194)
- separation from other rare earths by electrophoresis in Complexon III on cellulose or silica gel, 25:57299
- separation from other rare earths by ion exchange, 21:17713
- separation from other rare earths by ion exchange chromatography, 24:33776
- separation from other rare earths by ion exchange chromatography, 25:34714
- separation from other rare earths by ion exchange using α-hydroxyisobutyric acid, 21:39015
- separation from other rare earths by reversed-phase partition chromatography using Aliquat-336, 21:39014
- separation from other rare earths by thin-layer chromatography using bis(2-ethylhexyl) ester of orthophosphoric acid, 21:32240
- separation from rare earths by ion exchange using DTPA and NTA, 23:13813 (BNWL-SA-1493)
- separation from rare earths by ion exchange, comparison of eluting agents for, 23:49913
- separation from rare earths by solvent extraction using naphthenic acids, 22:27868
- separation from rare earths using lactic acid, calculations for ion exchange, 22:12417
- separation from ruthenium on inorganic redox ion exchanger, 21:43029
- separation from samarium by extraction chromatography using bis(2-ethylhexyl) phosphate and Szilard—Chalmers reaction, 21:25913
- separation from samarium by extraction chromatography using Aliquat-336—lithium nitrate system, 23:35259 (INP-675)
- separation from samarium using sodium amalgam, 23:13845
- separation from seawater by flocculation, 25:18518
- separation from Shippingport fuel reprocessing wastes by solvent extraction using TBP and D2EHPA, 23:6196 (ARH-SA-4)
- separation from Shippingport Reactor fuel reprocessing wastes by solvent extraction using TBP and D2EHPA successively, 24:5704 (ARH-1354)
- separation from transplutonium elements by ion exchange, 25:21084 (SRARI-P-75)
- separation from trimetaphosphoric acid solutions by ion exchange, 21:32177
- separation from uranium-235 fission products by ion exchange chromatography, 24:14008
- separation from yttrium using N-(carboxymethyl)-N'-(2-hydroxyethyl)-N,N'-ethylenediglycine or EDTA, effects of temperature on ion exchange, 22:10337
- separation of carrier-free, from neutron-activated neodymium, electrophoretic, 21:32262
- separation of plutonium from, by solvent extraction using tridodecylamine, 22:27848 (CEA-N-816, pp 359-414)
- separation of samarium from, by ion exchange chromatography, 23:405
- separation of trace amounts of, from uranium in acetic acid by electrophoresis, 21:39006
- separation of, from americium and europium using sodium polyphosphate, electrophoretic, 21:14290
- separation of, from americium and other rare earths by ion exchange using diethylenetriaminepentaacetic acid and α-hydroxyisobutyric acid, 21:4605
- separation of, from fission product rare earths by ion exchange elution, 21:10412 (BNWL-318)
- separation of, from gadolinium by ion exchange, 21:8413
- separation of, from other rare earths by high-voltage electrophoresis, 21:5988 (CEA-R-2877)
- separation of, from other rare earths by ion exchange, 21:14296
- separation simultaneously with neodymium by solvent extraction using bis(2-ethylhexyl) phosphate, 25:39575
- spectra in dilute acid solutions, correlation between calculated and experimental intensities of bands in, 23:4615
- spectra of, emission, 22:2018(R) (BMwF-FBK-67-76)
- spectra of, energy levels and intensities in solution absorption, 23:4589 (ANL-7358)
- spin—orbit and spin—other-orbit interactions in $4f^n$ configuration of, Hartree—Fock splitting factors for, 24:17633
- structure of, valence electron, 21:45135
- thermal conductivity to 2000°C, estimation, 21:13260 (ORNL-3970, pp 36-41)
- uptake, distribution, and excretion in man, 23:13974 (BNWL-715(Pt.2), pp 181-225)
- use in production of luminescent zinc silicate bodies, 22:21084(P)

PROMETHIUM ALLOYS AND SYSTEMS
- Al—Pm, crystal structure of intermetallic PmAl$_3$, 22:2650
- Pm—Po, crystal structure of intermetallic PmPo, 24:51160
- Pm—Po, density and melting point of intermetallic PmPo, 24:51160
- Pm—Po, preparation of intermetallic PmPo, 24:51160
- Pm—Pt, preparation and structure, 21:6832

PROMETHIUM BORIDES
- formation of PmB$_6$, comparison of literature and calculated heat of, 21:19619

PROMETHIUM CHLORIDES
- hydrolysis in hydrochloric acid and hydrochloric acid—potassium chloride solutions, 23:40612 (CEA-R-3803)
- hydrolysis of vapor-phase, thermodynamics of, 22:14476 (BMwF-FBK-67-87)
- hydrolysis of, effects of temperature on kinetics and thermodynamics of, 23:21678 (BMwF-FBK-68-42)
- hydrolysis of, thermodynamic study of vapor-phase, 23:24164
- hydrolysis of, vapor-phase, 22:2018(R) (BMwF-FBK-67-76)
- reduction of anhydrous, by calcium to prepare promethium-147. 25:630 (CONF-700403-(Vol.2), pp 557-67)
- reduction of anhydrous, by calcium, preparation of promethium-147 metal by, 23:45331
- reduction to metal of promethium-147-enriched PmCl$_3$, using calcium, 23:14304 (BNWL-959)

PROMETHIUM FLUORIDES
- reactions of, with alkali metal fluorides, crystal structure of compounds formed by, 21:10311 (KFK-431)

PROMETHIUM HYDROXIDES
- crystallization and microstructure of colloidal solutions of, effects of aging and temperature on, 23:6095 (ORNL-TM-2387)
- radii of colloidal particles of, 25:44370
- radii of colloidal particles of, in aqueous solutions, 25:6325 (UJV-2467-Ch)

PROMETHIUM IONS
- energy levels in dilute acid solutions, spectral studies on electronic, 23:4611
- mobility in ethanol—hydrochloric acid—water solutions, 23:40612 (CEA-R-3803)
- mobility in relation to neodymium ions for chloride and chloride—sulfate electrolytes, 25:115 (CONF-700403-(Vol.1), pp 305-9)
- radii in fluorides and oxides, 24:188
- wave functions for, accurate numerical Hartree—Fock self-consistent field, 25:19478

PROMETHIUM ISOTOPES
- decay rates of, data sheets on, 24:31590 (BNWL-1309)
- decay schemes for, tables on, 23:33331 (BNL-13595)
- metabolism in miniature swine, 24:50674(R) (BNWL-1306(Pt.1))
- production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)

PROMETHIUM ISOTOPES Pm-139
- beta and electron-capture decay of, half-life and γ spectra for, (E), 22:35302
- beta decay of, half-life and γ spectra for, (E), 23:19289
- decay scheme of, half-life and γ spectra for, (E), 22:3697 (KFK-534)

PROMETHIUM ISOTOPES Pm-140
- beta and electron-capture decay of isomeric, half-life and γ spectra for, (E), 22:35302
- beta decay of, half-life and γ spectra for, (E), 23:19289
- decay scheme of, half-life and γ spectra for, (E), 22:3697 (KFK-534)
- isomeric transition in, (E), 22:16007 (JINR-P6-3540)

PROMETHIUM ISOTOPES Pm-141
- beta and electron-capture decay of, γ and internal conversion spectra from, (E), 25:20388
- beta and electron-capture decay of, half-life and γ spectra for, (E), 22:35302
- beta and electron-capture decay scheme, (E), 24:43377
- beta decay of, gamma spectra from, (E), 24:43317 (LYCEN-7029)
- beta decay of, γ and conversion electron spectra for, (E), 25:1738 (LYCEN-7051)
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay scheme of, half-life and γ spectra for, (E), 22:3697 (KFK-534)
- energy levels from beta decay of samarium-141, (E), 23:49432
- energy levels from samarium-141 beta and electron-capture decay, complex shell-model, (E/T), 25:28299 (CERN-70-30(Vol.1), pp 435-46)
- energy levels from samarium-141 decay, (E), 24:28769(R) (COO-1779-13)
- energy levels from samarium-141 decay, lifetimes and spin assignments for, (E), 25:25713 (JINR-P6-5517)

- energy-level scheme from samarium-141 decay, (E), 25:43909
- neutron reactions (n,α) at 15.1 MeV, alpha spectra from, (E), 24:43327
- photon reactions (γ,p) with, proton energy distribution and cross section for, (E), 23:3967
- photoneutron reactions at threshold to 24 MeV, cross section for, (E), 24:49892

PROMETHIUM ISOTOPES Pm-142
- beta and electron-capture decay of, γ spectra from, (E), 24:20364
- beta decay of, γ and conversion electron spectra from, (E), 25:31337
- beta decay of, half-life and γ spectra for, (E), 23:19289
- beta decay scheme, (E), 22:32604
- beta decay scheme, (E), 22:32605
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- content of, in fallout, 1961, 21:10862(R) (HASL-174(App.))
- decay scheme for, (E), 25:25749
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- nuclear spin and parity of, (E), 24:28789
- production of carrier-free, 23:13845

PROMETHIUM ISOTOPES Pm-143
- beta decay of, spectra shape of K-orbital shakeoff electrons and accompanying nuclear beta particles in, (E), 25:36774
- beta spectra of, resolution correction and shape factor analysis of, 21:26186
- decay with positron emission, (E), 21:4287
- electron-capture decay of, conversion-electron spectra for, (E), 23:1917
- electron-capture decay of, gamma and conversion-electron spectra from, (E), 22:1650 (JINR-P6-3471)
- electron-capture decay of, γ-ray yield from, (E), 24:38272
- energy level at 273 keV, lifetime measurement using delayed coincidence technique, (E), 22:24884
- energy levels from (d,He-3) and (He-3,d) reactions, spectroscopic factors for, (E), 25:34115
- energy levels from beta and electron-capture decay of samarium-143, (E), 22:20582
- energy levels from beta decay of samarium-143, (E), 23:49432
- energy levels from decay of samarium-143, spin—parity assignments for, (E), 23:8998
- energy levels from neodymium-142 (He-3,d) reactions, (E), 23:10961(R) (NP-17704)
- energy levels from neodymium-142 (He-3,d) reactions, spectroscopic factors for, (E), 24:20383 (JAERI-1184, pp 88-91)
- energy levels from neodymium-142 (He-3,d) reactions, spectroscopic factors for, (E), 24:20403
- energy levels from neodymium-142 proton elastic scattering, spin—parity assignments for isobaric analog, (E), 23:21334 (ZFK-130, pp 104-7)
- energy levels from neodymium-142 proton elastic scattering, spins of isobaric analog, (E), 22:27214
- energy levels from proton resonances in neodymium-142, spins, partial widths, and spectroscopic factors for decay of isobaric analog, (T), 25:3685
- energy levels from proton resonances in neodymium-142, proton decay widths for isobaric analog, (E), 24:40632
- energy levels from quasi-particle Tamm—Dancoff approximation, spin—parity assignments, single-particle energies, eigenvectors, electromagnetic moments, and spectroscopic factors for, (T), 25:12616
- energy levels from resonances in neodymium-142 proton scattering, resonance parameters for isobaric analog, (E), 24:26654
- energy levels from samarium-143 beta and electron-capture decay, spin—parity assignments for, (E), 25:36766
- energy levels from samarium-143 beta and electron-capture decay, spin—parity assignments for, (E), 25:5697
- energy levels from samarium-143 decay, (E), 22:1667
- energy levels from samarium-144 (d,He-3) reactions, spectroscopic factors for, (E), 23:1888
- energy levels from samarium-144 (t,α) reactions at 12.9 MeV, (E), 22:32657
- energy levels of, calculation using inverse gap equations and surface delta interaction, (T), 23:37260
- energy levels of, excited, (E), 21:23314 (BNL-994, pp 70-102)
- energy levels of, shell-model calculation using surface delta interaction, (T), 24:38224
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- energy-level spins and transitions from samarium-143 decay, (E), 21:17382
- energy-level transitions from quasi-particle Tamm—Dancoff approximation, rates for M1 and E2, (T), 25:12616
- energy-level transitions from samarium-143 beta and electron-capture decay, intensities of, (E), 25:5697
- energy-level transitions from samarium-143 decay, (E), 21:44673
- excretion by man, effects of DTPA on, 23:50268 (BNWL-1051(Pt.2), pp 225-6)
- metabolism in man, 24:14401
- metabolism in man, effects of administration route and DTPA on, 22:40513 (BNWL-SA-1915)
- metabolism in swine, 23:6341 (BNWL-714, pp 5.1-26)
- preparation of, methods for, 21:28585(R) (BNWL-247)
- production from proton reactions with neodymium-144, 23:11444 (BNWL-481-2, pp 1-126)
- production in ORNL 86-in. Cyclotron, 21:39129 (ORNL-4155)
- production of pure, by proton irradiation of samarium-144, 25:37437 (BNWL-CC-2664)
- removal from human body, effectiveness of DTPA for, 24:14401
- removal from rats, effectiveness of DTPA for, 24:34296 (BNWL-1050(Pt.1), pp 5.5-8)

PROMETHIUM ISOTOPES Pm-144
- decay of, neodymium energy levels from, (E), 21:12045
- decay scheme of, gamma spectra for, (E), 21:33981
- decay with positron emission, (E), 21:4287
- effects on dogs following inhalation of labeled aerosols, β and γ, 23:6339 (BNWL-714, pp 3.1-38)
- electron-capture decay of, gamma and conversion-electron spectra from, (E), 22:1650 (JINR-P6-3471)
- electron-capture decay of, gamma spectra and angular correlations in, (E), 25:34094
- electron-capture decay of, γ coincidence spectra for, (E), 22:50629
- electron-capture decay of, γ—γ coincidence spectra for, (E), 22:50628
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- excretion by dogs, effects of DTPA on, 23:6339 (BNWL-714, pp 3.1-38)
- gamma spectra of, singles and coincidence, (E), 22:48526
- production from proton reactions with neodymium-144, 23:11444 (BNWL-481-2, pp 1-126)
- production in ORNL 86-in. Cyclotron, 21:39129 (ORNL-4155)
- uptake by fish eggs, 24:50923

PROMETHIUM ISOTOPES Pm-145
- energy level at 492.31 keV from samarium-145 electron-capture decay, (E), 25:38979 (INR-P-1235)
- energy levels and transitions from electron-capture decay of samarium-145, (E), 22:14018
- energy levels of, calculations using unified model with intermediate coupling, (T), 21:10055
- energy levels of, calculations using unified model with intermediate-coupling approximation, (T), 22:11977
- energy-level lifetimes and E2 transition probabilities for, (E), 22:20602
- energy-level scheme and decay properties of, evaluated data compilation on, (E), 22:3735
- energy-level transition multipolarities and probabilities, (E), 21:29956 (AE-278)
- gamma spectra for, line energies and intensities in, (E), 23:7325
- lifetime of isomeric, 21:8648
- nuclear properties of, calculations using Nilsson model, (T), 21:7832
- preparation by thermal neutron irradiation of samarium-144, (E), 23:7325
- use as x-ray source for transmission scanning of bones for measurement of mineral content, 25:4647 (CONF-700515-, pp 274-9)
- Pm-145—Sm-145, preparation and properties of x-ray sources of, 25:15835 (ANL-7760(Pt.1), pp 33-5)

PROMETHIUM ISOTOPES Pm-146
- beta and electron-capture decay of, gamma and conversion-electron spectra from, (E), 22:1650 (JINR-P6-3471)
- beta and electron-capture decay of, γ singles and coincidence spectra for, (E), 23:7312
- beta decay of, half-life and β and γ spectra for, (E), 22:1643 (AD-646588)
- burnout in reactors by neutron irradiation, research on, 24:39139(R) (BNWL-1308-2)
- burnout of, (E/T), 25:54887(R) (BNWL-1308-6)
- content in irradiated power reactor fuels, 21:7862 (BNWL-SA-286)
- content in reactor-irradiated promethium oxide, 23:24379(R) (BNWL-1010)
- decay of, gamma energies and half life for, (E), 21:12028 (USNRDL-TR-1109)
- decay of, gamma spectra and half-life for, (E), 21:44725
- decay with positron emission, (E), 21:4287
- energy levels and beta and electron-capture decay schemes of, evaluated data on, (E), 22:22596
- implantation in human phantoms as heat source, development of PNL and QAD computer codes for dosimetry following, 23:35744
- neutron capture cross section in reactor spectrum, (E), 21:42639
- production in ORNL 86-in. Cyclotron, 21:39129 (ORNL-4155)
- properties of, data summary of chemical, mechanical, and physical, 21:22102 (BNWL-363)
- radiation effects on burnup of promethium-147-contained, in-pile, (E), 24:16785 (BNWL-1270)

PROMETHIUM ISOTOPES Pm-147
- activity counting of, development of liquid scintillator for, 21:276 (JUL-377-PC)
- availability for use in large heat sources, 21:26097
- beta decay in promethium oxalate, differential thermal analysis of chemical effects of, 25:29172
- beta decay of, atomic K-ionization probability for, (E/T), 21:42720
- beta decay of, bremsstrahlung yields from, (E), 21:15601
- beta decay of, emission probability for 121.2-keV γ ray in, (E), 24:26670
- beta decay of, excitation of luminous source by, 21:3136
- beta decay of, gamma yield in, (E), 25:34122
- beta decay of, K-shell internal ionization probability and electron—x-ray coincidence spectra from, (E/T), 25:50770
- beta decay of, probability for production of internal bremsstrahlung in, (E), 25:31363
- beta decay of, radioluminescence of cadmium zinc sulfide by, 21:4572
- beta decay of, search for post end-point electrons in, (E), 21:46777
- beta decay scheme for, (E), 24:1861
- beta emission by, effects on bremsstrahlung emission from promethium—tungsten—oxygen compounds, 24:31600
- beta emission from, x-ray spectra from interactions with targets, (E), 21:860 (TID-22361(Pt.1))
- bremsstrahlung production by, use in x-ray fluorescence method for mail sorting, 22:10522
- content in animal tissue, methods for determination of, 21:34239
- content in atmosphere from reentry burn-up of isotopic power sources, prediction of, 21:4620 (AHSB(RP)M-41)
- content in North Adriatic Sea sediments, (E), 24:19116
- content in pitchblende from Africa, 22:35950
- content in reactor-irradiated promethium oxide, 23:24379(R) (BNWL-1010)
- content in sediments from Ligurian Sea, 1966, 25:6272 (CISE-N-118)
- content in upper atmospheric samples collected above selected global stations, 1966, 21:41019(R) (HASL-182)
- content of air filters on board Apollo 10 spacecraft, radiochemical methods for determination of, 24:23051(R) (BNWL-1183-2)
- content of feces and urine of astronauts from Apollo 13 mission, 24:48535(R) (BNWL-1183-5)
- content of man, performance of whole-body counters for measurement of, 25:37712 (BNWL-1551(Pt.2), pp 65-9)
- content of marine invertebrates in Mediterranean during 1966, effects of manganese on, 25:16124
- content of plankton and water in Adriatic Sea and Ligurian Sea during 1960 to 1968, 23:29484
- content on surface and interior layers of swine skin after soaking, effects of pH and soiling time on, 21:17987
- density and melting point of, 25:630 (CONF-700403-(Vol.2), pp 557-67)
- density of, 23:45331
- deposition as chloride on cadmium zinc sulfide phosphor, 21:30644(P)
- deposition in man, excretion studies to determine, 24:48459 (BNWL-1307(Pt.2), pp 40-2)
- deposition of thin films of, for use as beta source, 25:54896(P)
- design of power source of, for high voltages and small currents, 25:42019(P)
- determination as carrier in radioactive compounds by radiometric titration and paper electrophoresis, 24:13771
- determination by β counting using G-M and proportional detectors, efficiency curves for, 25:4029 (CISE-N-119)
- determination by precipitation as oxalate and β counting, 24:38749 (IA-1203)
- determination in dog urine by colloid filtration and counting, 23:47389
- determination in dog urine by colloid filtration and counting, 23:31299 (LF-39, pp 156-64)
- determination in liquid waste effluents from nuclear fuel reprocessing plant by scintillation counting, 25:12950 (BRH/NERHL-70-2)
- determination in rare earth fission products, solvent extraction process in, 21:40771 (HW-64619)
- determination in samples from distillation of MSRE fuel carrier salt, 24:46308 (ORNL-4548, pp 277-333)
- determination in selfluminous paints for watches and clocks, method for, 24:20988
- determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
- determination of, laboratory blank experience in, 22:37653 (UCRL-18140, pp 13-36)
- diffusion in aqueous solutions, effects of pH on self-, 25:6325 (UJV-2467-Ch)
- diffusion in aqueous solutions, effects of pH on self-, 25:44370
- diffusion in copper at 700 to 1010°C, tracer studies of, 25:2680
- diffusion in substoichiometric uranium carbide at 1300 to 1800°C, 21:24842
- distribution in beagle dogs following inhalation, 22:10825 (BNWL-480, pp 55-83)
- distribution in Ligurian Sea sediments, vertical, 21:43074
- distribution in organs of rats, effects of carrier and DTPA on, 23:20128
- distribution in rat tissues following injection, 25:37712 (BNWL-1551(Pt.2), pp 65-9)
- distribution in tissues of rats, tracer study of, 24:34296 (BNWL-1050(Pt.1), pp 5.5-8)
- effects of, on fluorescence emission of inorganic phosphors, 21:12285(R) (ORNL-4039)
- effects on emission spectra excitation in metals by β particles, 22:27844
- effects on occurrence of neoplasms in rats, long-term β, 23:22385(T) (AEC-tr-6944, pp 470-83)
- effects on radiation dose to lungs following inhalation by mice, β and γ, 23:11991 (SZS-11/68, pp 31-42)
- effects on rats following injection, effects of dose on late neoplastic β, 23:38794
- elution of small amounts of, by hydrochloric and lactic acids, chromatographic, 22:16509
- energy level at 413 keV, spin assignment from fast-slow γ sum-coincidence measurements, (E), 22:9879
- energy level at 531 keV, lifetime and transition probabilities for, (E), 22:32644
- energy level at 91 keV, magnetic moment and Q and g-factor ratios with ground state for, (E), 25:7855
- energy level at 91.06 keV, Moessbauer measurement of magnetic moment of, (E), 25:34082 (NYO-2028-5)
- energy levels and beta decay scheme of, evaluated data on, (E), 22:22596
- energy levels and transitions from beta decay of neodymium-147, (E), 22:7707
- energy levels at 182, 533, and 690 keV from neodymium-147 decay, spin—parity assignments for, (E), 23:34790
- energy levels at 91 and 531 keV from neodymium-147 decay, lifetimes of, (E), 24:15837
- energy levels at 91 and 531 keV, half-lives for, (E), 24:26596(R) (BARC-401)
- energy levels from beta decay of neodymium-147, (E), 22:1629
- energy levels from decay of neodymium-147, spin—parity assignments for, (E), 23:11036

energy levels from decay of oriented neodymium-147, spin-parity assignments and γ branching ratios for, (E), 24:1860
energy levels from internal-conversion electron spectrum of neodymium-147, (E), 21:25532
energy levels from neodymium-147 decay, spin assignments and multipole mixing ratios for, (E), 22:32646
energy levels from neodymium-147 decay, spin assignments for, (E), 25:12567
energy levels from neodymium-147 decay, spins of, (E), 21:17340(R) (AEET-267)
energy levels from unified-model in intermediate coupling calculations, (T), 22:1684
energy levels of, calculations using unified model with intermediate-coupling approximation, (T), 22:11977
energy levels of, calculations using unified model with intermediate coupling, (T), 21:10055
energy levels of, lifetimes of, (E), 21:12069
energy-level lifetimes and E2 transition probabilities for, (E), 22:20602
energy-level lifetimes and transitions from beta decay of neodymium-147, (E), 21:44693
energy-level parities and transitions from neodymium-147 decay, (E), 21:13855 (AE-265)
energy-level transistions from beta decay of neodymium-147, internal conversion coefficients and multipolarities for,, 23:1872 (AD-671932)
energy-level transition multipolarities and probabilities, (E), 21:29956 (AE-278)
energy-level transitions from beta decay of neodymium-147, (E), 22:1673
energy-level transitions from neodmium-147 decay, multipolarities for, (E), 25:12567
energy-level transitions from neodymium-147 beta decay, (E), 21:29976
energy-level transitions from neodymium-147 beta decay, (E), 21:27595
energy-level transitions from neodymium-147 beta decay, conversion coefficients for, (E), 21:35470
energy-level transitions from neodymium-147 decay, multipolarities of, (E), 22:14054
energy-level transitions in, unified-model calculation of penetration factors for l-forbidden M1, (T), 24:38226
excretion by rats, effects of DTPA on, 23:6434 (BNWL-714, pp 6.1-21)
gamma radiation from, shielding properties of aluminum and lead for, 24:4849(R) (BNWL-1177)
half-life, 21:12285(R) (ORNL-4039)
half-life and type of decay of, 22:42698
half-life in human bone, comparison of ICRP value and experimental data for biological, 25:55108 (BNWL-SA-3747)
half-life of, (E), 22:24845
half-life of, measurements on, 21:40959(R) (MLM-1399)
handling at LRL Livermore, exposure and contamination control for, 23:14162 (UCRL-71357)
handling by factory personnel, radiation protection for, 25:16204
hazards to man from use in consumer products in comparison with radium and tritium, 23:26768 (MORP-68-5)
hazards to personnel using Japanese electron microscopes, 24:894
implantation in human phantoms as heat source, development of PNL and QAD computer codes for dosimetry following, 23:35744
incorporation with europium in rare earth compounds as phosphors, 25:33063
melting point of, 23:45331
metabolism in dogs, rats, and other animals, 24:36713(T) (ANL-Trans-832)
metabolism in lungs of rats following intratracheal administration, 23:24508
metabolism in man and swine following intravenous injection, comparison of, 25:55108 (BNWL-SA-3747)
metabolism in mice, 23:11987 (SZS-11/68)
metabolism in mice following inhalation in luminous paints, 23:11989 (SZS-11/68, pp 12-19)
metabolism in mice following inhalation of labeled chloride aerosols or luminous paints, 23:11990 (SZS-11/68, pp 21-9)
Moessbauer effect for 91-keV γ transition in, measurement of, (E), 22:35289 (DP-MS-67-14)
monitoring of plankton, sediments, and water of Adriatic and Ligurian Seas during 1961 to 1968, fallout, 24:34210
monitoring of space vehicles, 24:12066(R) (BNWL-1183-1)
neutron capture at 5 to 316 eV, resonance parameters for, (E), 24:28738(R) (RPI-328-171)
neutron capture by, ground-state and isomeric cross sections for thermal, (E), 25:28373
neutron capture cross section and resonance integral for, thermal, (E), 21:42637
neutron capture cross section of, measurement using neutrons from underground nuclear explosions, (E), 21:7770 (LA-DC-7864)
neutron capture in reactor spectrum, cross section and resonance integral for, (E), 25:20379
neutron capture resonance integral for, (E), 23:5902
neutron resonance parameters at 15 to 65 eV, (E), 22:20578 (WASH-1079)
neutron resonance parameters at 6 to 20 eV, (E), 21:40675(R) (IN-1083)
neutron resonance parameters at 65 to 250 eV, (E), 24:40607 (IN-1317, pp 1-63)
neutron resonance parameters for, 21:46943(R) (IN-1117)
neutron resonance parameters for, description of computer program for determining, 23:26086 (IN-1218, pp 1-56)
neutron resonance parameters for, fast-chopper measurements of, 22:12094(R) (IN-1126)
neutron total cross section and resonance parameters at 0.008 to 200 eV, transmission measurements of, (E), 23:5902
neutron total cross section and resonance parameters at 1.6 to 200 eV, (E), 22:14001 (RPI-328-100, pp 1-56)
neutron total cross section and resonance parameters at 1.6 to 200 eV, (E), 22:20578 (WASH-1079)
neutron total cross section and resonance parameters at 0.01 to 70 eV, (E), 23:28304 (WASH-1124)
neutron total cross section and resonance parameters at 0.008 to 200 eV, (E), 22:39637 (RPI-328-123, pp 1-17)
neutron total cross section for, time-of-flight neutron measurements in MTR of, 23:26086 (IN-1218, pp 1-56)
neutron total cross sections and resonance parameters at 0.01 to 1000 eV, (E), 25:12550
neutron total cross sections and resonance parameters at 0.008 to 200 eV, (E), 23:1882 (WASH-1093)
neutron total cross sections at 0.001 to 2 keV, (E), 21:17270(R) (RPI-328-71)
nuclear properties of, calculations using Nilsson model, (T), 21:7832
occurrence in gadolinite, separation and origin of, 25:21210
order regarding registration of, used as radiation source in instruments in United Kingdom, 22:31112
performance as beta source for backscatter determination of metal corrosion, 23:36000
performance as beta source for neutralization of electrically charged flour, 25:54897
performance as heat source in microthruster for space, 22:19044 (MLM-1437)
performance for implanted heat source for mechanical heart, evaluation of, 24:14507
performance for use with zinc sulfide in two-conversion nuclear battery, 23:45478 (BMwF-FBK-69-23)
performance in high-temperature heat sources, 22:4360
performance in space power sources for medium durations, 23:38194
preparation by calcium reduction of anhydrous promethium chloride, 25:630 (CONF-700403-(Vol.2), pp 557-67)
preparation of metallic, by calcium reduction of anhydrous promethium chloride, 23:45331
preparation of metallic, by calcium reduction of promethium chloride, 23:14304 (BNWL-959)
preparation of radiation source of, by impregnation into sol oxide microspheres, 24:2402(P)
preparation of thin films of, by electrodeposition, 25:37438 (CEA-R-4101)
preparation of thin uniform sources of, equipment and method for electrodeposition, 25:48754
preparation of, process control by neutron activation determination of neodymium-151 for, 21:15864
production and properties of, for use as heat sources, 24:14199
production and requirements for marine, space, and terrestrial power systems, 24:22885
production and uses, review on, 23:4670
production by irradiation of neodymium-146, economics of, 21:3215 (BNWL-310)
production by neutron irradiation of neodymium, 22:21121
production by US power reactors through 1990, 22:45245 (BNWL-716)
production in power reactor spent fuel elements, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
production in power reactors, economic aspects of, 22:119
production of carrier-free, by irradiation of neodymium oxide, 22:23068
production of sealed radiation sources of, design of equipment and facility for, 23:33290 (CEA-R-3622)
properties for isotopic heat sources for space application, 21:1529
properties for low power electric energy generation in charged particle collection system, 21:26115
properties for radioisotopic heat sources, 22:16770 (BNWL-680, pp a.1)
properties for use as beta source for excitation of phosphor in light source, 24:2398(T) (ORNL-tr-2145)
properties for use as heat source, 23:50065
properties for use as heat source for circulatory support device, 24:48220(R) (BNWL-1308-3)
properties for use as heat source for implantable circulatory support device, 23:29096 (WANL-3857-1)
properties for use as heat source for radioisojet, 22:33612
properties for use as heat source for space power systems, 24:22886
properties for use as heat source in aerospace life support system, 23:4780 (LMSC-680679)
properties for use as heat source in betavoltaic battery, 24:5817
properties for use as heat source in radioisojet thruster for space propulsion, 25:48746
properties for use as heat source, data sheets on, 24:31590 (BNWL-1309)
properties for use as heat sources, 22:8260
properties for use as power source for implantable circulatory support systems, 23:38190
properties for use in power production, 23:530 (N-68-29959)
properties in large heat sources, 21:26097
properties in x-ray source excitation, 21:39144
properties of microspheres of, for use in radioluminescent materials in Apollo space program, 23:50059
properties of sources of, for use in μW range isotope batteries, 25:23736 (AE-410, pp 63-82)
properties of, data summary of chemical, mechanical, and physical, 21:22102 (BNWL-363)
purification by cation exchange using α-hydroxyisobutyric acid as eluant, 25:18501 (RCN-131)
purification by displacement development chromatography, 23:35130 (DP-1194)
purification by promethium-146 burnup in-pile, (E), 24:16785 (BNWL-1270)
purification cell for, equipment and operational changes for, 22:16769 (BNWL-680, pp 2-4)
purification from fuel reprocessing wastes by solvent extraction using TBP, 25:211 (DP-1236)
radiation dose to bone from, relation of, to carcinogenic effects, 21:26577
radiation dose to man following ingestion or inhalation of oxide particles containing, β and γ, 22:23509(R) (SC-CR-67-2729)
reactivity worths in fast reactor spectra, (E/T), 25:15350
recovery from aqueous Savannah River fuel reprocessing wastes by batch solvent extraction, 25:54739
recovery from fuel reprocessing, 23:47604
removal from contaminated surfaces, 24:694
removal from rats, effectiveness of DTPA for, 24:34295 (BNWL-1050(Pt.1), pp 5.3-4)
removal from rats, effectiveness of DTPA for, 24:34296 (BNWL-1050(Pt.1), pp 5.5-8)
removal from swine, effectiveness of DTPA for, 24:34297 (BNWL-1050(Pt.1), pp 5.8-11)
retention in lungs of dogs, pathological effects of, 21:34650(R) (BNWL-322)
separation by ion exchange in alcohol—water solutions containing aluminum or lithium nitrates or nitric acid, 22:35905
separation by solvent extraction using naphthenic acid, 22:35904
separation from actinide and rare earth isotopes by ion exchange chromatography using zirconium phosphate, 22:10335
separation from fission products, method for, 23:11597 (CEA-CONF-1092)
separation from process wastes, use of spectrophotometers as analytical and control mechanism for, 21:19892 (BNWL-337)
separation from radioactive wastes from fuel reprocessing, 22:40172 (KR-126, pp 267-78)
separation from seawater by flocculation using calcium phosphate, 24:36363
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation of calcium and magnesium impurities by vacuum distillation, 23:45331
sorption by marine sediments, 23:31440
sorption from aqueous solutions on metal surfaces, effects of composition and pre-treatment on, 21:35943
sorption from gastrointestinal tract of miniature swine, 22:45406
sorption of, by manganese oxides in water works filter bed materials, 21:16006
testing as power source incorporated in promethium sesquioxide, 22:33604 (BNWL-SA-1796)
testing for radiography using aluminum A5 plates, 23:17690 (CEA-CONF-1076)
thermal diffusivity in promethium oxide—samarium oxide solid solutions, 22:17166 (BNWL-680, pp 19-20)
toxicity of ingested, in swine, 21:1834
uptake and distribution in mammal tissues following inhalation and intravenous administration, review on, 25:32345
uptake by excised skin of swine, following application in aqueous solutions, 23:6441(T) (NSJ-tr-111)
uptake by man following inhalation, 22:33715 (SZS-15/67)
uptake by oat plants from soils, effects of fertilizers on, 25:42260
uptake by plants in Landes, France during 1964, autoradiography study of fallout, 22:31066
use as beta source for precision distance gaging by beta backscattering, (E), 25:39668
use as beta source for removal of static electric charges on powders, 23:35436
use as beta source to excite fluorescence in alloys, 22:50943
use as bremsstrahlung source in application of x-ray fluorescence to mail sorting, 22:259 (ORNL-IIC-10(Vol.2), pp 786-804)
use as β source for radioluminescence, 22:12544(T) (UCRL-Trans-10181)
use as β source in photoelectric two-step nuclear batteries, 21:26116
use as β source in radiographic inspection of reactor fuel elements, 21:19876(P)
use as heat source for electric power generation, performance characteristics for, 22:19051
use as heat source for miniature thermionic cells, 23:2526
use as heat source for space applications, economics of, 21:4670 (NASA-SP-131, pp 73-93)
use as heat source in cardiac pacemakers, 25:26434
use as heat source in guidance system of Advanced Manned Strategic Aircraft, 23:38173(R) (BNWL-1085)
use as heat source in guidance system of Advanced Manned Strategic Aircraft, 22:28010(R) (BNWL-681)
use as heat source in navigation system of Advanced Manned Strategic Aircraft, 23:21889 (BNWL-994)
use as heat source in nuclear battery, 23:21899
use as heat source in radiovoltaic and radiophotovoltaic direct energy converters, 22:6543
use as heat source in small manned Antarctic station, 21:19854
use as heat source incorporated in promethium sesquioxide, 23:29090 (BNWL-1041)
use as heat source, processing methods for, 22:2305 (BNWL-SA-1309)
use as isotopic heat source, economic evaluation of, 21:3215 (BNWL-310)
use as power source for artificial heart, acute and chronic radiation effects on man from, 22:31275
use as power source for electric cells, 25:54922(P)
use as power source in betavoltaic cells and thermionic converters for biomedical applications, 25:41996
use as power source in mechanical heart for implantation in man, 22:30789
use as radiation source for static electric charge removal, 22:33613

use as radium-substitute in luminous paint, radiation protection problems with, 21:28487
use as source for production of fluorescent x rays for ore analysis, 25:21173
use as source for x-ray-diffraction analysis with single-crystal diffractor, 21:37584
use as source in beta diffraction analysis, evaluation of, 22:23218 (COO-1239-15)
use as sources for absorptiometry, 21:32325 (CONF-661203)
use as x-ray source for single-crystal and powder diffraction studies, 23:6264
use for inducing negative surface charge in silastic model for blood coagulation studies, 25:4434
use for therapy of human cornea, 24:21263
use in development of radiation-stimulated light sources, 22:14433 (ORNL-4196, pp 66-89)
use in heat source for Brayton cycle space power conversion system, 21:36261 (ORNL-TM-1691(Del.))
use in luminous paints, hazards from, 21:41415
use in Moessbauer studies, 24:40198
use in photoelectric conversion systems, 22:33616
use in radiographic camera, 23:2519 (ORNL-4329)
use in radiography, 22:40808
use in radiography, evaluation of, 22:4634
use in zinc sulfide luminous compounds, 22:47291 (BMwF-FBK-68-07)
use of beta-excited, in absorptiometry, 21:1659(R) (COO-1239-1)
use of, as tracer for promethium oxide inhalation studies, 21:14530 (BNWL-280, pp 56-9)
yields from neutron fission of plutonium-239 and plutonium-241, 25:15689

PROMETHIUM ISOTOPES Pm-148
beta decay matrix elements for, estimation from E1 matrix elements determined from (e,e'p) reactions, 25:46027
beta decay of ground-state and isomeric, γ spectra from, (E), 25:28373
beta decay of, β—γ angular correlations from, (E), 24:33140
beta decay of, β—γ directional correlations in, (E), 22:50647
beta decay of, β-γ and γ-γ directional correlations in, (E), 22:44726
beta decay of, β-γ direction correlations and β longitudinal polarization from, (E), 24:18427
beta decay of, β-γ directional correlation in, (E), 21:12055
beta decay of, gamma and conversion-electron spectra from, (E), 22:1650 (JINR-P6-3471)
beta decay of, γ singles and coincidence spectra from, (E), 25:20352
beta decay of, half-life for, (E), 24:49867
beta decay of, matrix elements for $1^+ \rightarrow 0^-$, (T), 24:43415
beta transitions in, β-γ directional correlations for first-forbidden, (E/T), 22:27234
determination of promethium-148g by γ spectrometry, 25:51398
energy levels and beta decay scheme of, evaluated data on, (E), 22:22596
energy levels of, coupling between spin-flip and non-spin-flip particle-hole, (T), 25:17868
gamma spectra of isomeric, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
half-life of metastable, (E), 25:34120
neutron capture by, resonance parameters for thermal, (E), 23:30998 (RPI-328-148, pp 1-17)
neutron capture cross section of isomeric, thermal, (E), 21:42637
neutron capture cross section of, measurement using neutrons from underground nuclear explosions, (E), 21:7770 (LA-DC-7864)
neutron total cross section for isomeric, from 0.01 to 400 eV, (E), 23:13265 (RPI-328-142, pp 1-67)
neutron total cross sections at 0.001 to 2 keV, (E), 21:17270(R) (RPI-328-71)
properties of, data summary of chemical, mechanical, and physical, 21:22102 (BNWL-363)
removal from swine, effectiveness of DTPA for, 24:34297 (BNWL-1050(Pt.1), pp 5.8-11)
retention in lungs of dogs, pathological effects of, 21:34650(R) (BNWL-322)
use of, as tracer for promethium oxide inhalation studies, 21:14530 (BNWL-280, pp 56-9)
yields of ground-state and isomeric, in uranium-235 thermal neutron fission, (E), 22:42065

PROMETHIUM ISOTOPES Pm-149
beta decay of, γ-ray yield from, (E), 24:38272
determination in fission product mixtures by radiochemical separation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
energy level at 114 keV, g factor for, (E), 25:3705
energy level at 114 keV, magnetic moment from perturbed γ angular correlations, (E), 22:27194
energy level at 114 keV, magnetic moment of, (E), 22:24835(R) (BARC-305)
energy levels at 114 and 270 keV, g-factors for, (E), 23:40072
energy levels at 114, 189, and 270 keV, nuclear magnetic moments and spins of, (E), 25:12609
energy levels from beta decay of neodymium-149, (E), 22:11976
energy levels from decay of neodymium-149, lifetimes for, (E), 23:4010
energy levels from decay of neodymium-149, numerical construction of, 23:1911
energy levels from neodymium-149 decay, magnetic moments of, (E), 25:28381
energy levels from unified-model in intermediate coupling calculations, (T), 22:1684
energy levels of, calculations using unified model with intermediate coupling, (T), 21:10055
energy levels of, calculations using unified model with intermediate-coupling approximation, (T), 22:11977
energy levels of, magnetic moments of, (E), 25:12557
energy-level spins and transitions from neodymium-149 β decay, (E), 22:20605
energy-level spins and transitions from neodymium-149 decay, (E), 21:12013(R) (EANDC(OR)-44(L))
energy-level transition probability for, E2, (E), 22:20602
energy-level transitions from neodymium-149 decay, (E), 21:15561 (CONF-660221-, pp 228-33)
energy-level transitions from neodymium-149 decay, multipolarities for, (E), 25:12609
energy-level transitions in, angular correlations and probabilities of, (E), 25:12557
energy-level transitions in, γ—γ angular correlations for, (E), 23:40072
energy-level transitions in, unified-model calculation of penetration factors for l-forbidden M1, (T), 24:38226
gamma spectra of isomeric, use of thallium-activated sodium iodide scintillation spectrometer for measuring, 21:26147(R) (IDO-17222)
half-life, (E), 25:20338
half-life, (E), 25:20339
neutron absorption cross section for, thermal, (E), 22:20405 (CONF-680307-17)
neutron burn-up cross section for, in high-flux reactors, (E), 21:14100
nuclear properties of, calculations using Nilsson model, (T), 21:7832
production by neutron fission of plutonium-239 and plutonium-241, 25:15690
properties and availability of, for use as tracers in discharge measurements in high-head turbines and pumps, 21:45311 (TID-23737, pp 115-32)
separation from uranium-235 fission products in lactic acid by ion exchange, method for, 24:16644
yield in thermal neutron fission of uranium-235, (E), 22:29983 (MIT-905-108, pp 1-32)

PROMETHIUM ISOTOPES Pm-150
beta decay of, gamma spectra from, (E), 24:47653
yield in californium-252 spontaneous fission, (E), 24:6932

PROMETHIUM ISOTOPES Pm-151
beta decay of, β-γ and γ-Ce delayed coincidence spectra from, (E), 25:43937
beta decay of, gamma singles and delayed-coincidence spectra from, (E), 25:36807
beta decay of, gamma spectra from, (E), 21:31772 (CEA-R-3047)
beta decay of, samarium-151 energy levels from, (E), 22:11976
beta decay of, samarium-151 energy levels from, (E), 21:17356 (ZfK-Pha-23)
energy level at 117 keV, lifetime and transition probability for, (E/T), 21:40419 (AE-287)
energy levels of proton states from neodymium-150 (He-3,d) and (α,t) reactions, (E/T), 25:20383
energy levels, (E), 22:9867
energy-level lifetimes and E1 $\Delta K = 0$ transition probabilities for, (E), 22:27123
energy-level transitions from decay of neodymium-151, internal conversion coefficients for, (E), 23:47003
energy-level transitions from neodymium-151 decay, internal conversion coefficients and multipolarities for, (E), 23:44901
energy-level transitions from neodymium-151 decay, internal conversion coefficients for, (E), 24:1818 (IS-T-305)
energy-level transitions in, prediction of M1 and E2, 21:40435
neutron absorption cross section for, thermal, (E), 22:20405 (CONF-680307-17)
production by neutron fission of plutonium-239 and plutonium-241, 25:15690
production of, 22:25440(R) (MLM-1443)
separation from uranium-235 fission products in lactic acid by ion exchange, method for, 24:16644

PROMETHIUM ISOTOPES Pm-152
beta decay of isomers of, half-lives and β and γ singles and coincidence spectra from, (E), 25:56772
beta decay of, β and γ spectra from, (E), 25:50782
beta decay of, γ energies and intensities from, (E), 25:34079(R) (NP-18683)
decay characteristics of 4.1 min, 24:14008
energy levels from neodymium-152 decay, (E), 25:56772

PROMETHIUM ISOTOPES Pm-153
beta decay of, γ spectra from, (E), 24:15927
beta decay of, γ spectra from, (E), 23:17103(R) (ANL-7481)
decay of, 25:10472(R) (BMBW-FBK-70-19)
gamma spectra for, line energies and intensities in, (E), 22:53095 (BMwF-FBK-68-11)

PROMETHIUM ISOTOPES Pm-154
decay of, β and γ spectra from, (E), 24:28767 (CONF-680461-7)

PROMETHIUM MOLYBDATES
crystal structure of $Pm_2(MoO_4)_3$, 24:20753
preparation of $Pm_2(MoO_4)_3$, 24:20753

PROMETHIUM OXALATES
calcination for use as heat source, thermal analysis studies on, 23:50065
crystal structure of decahydrates of, 22:2018(R) (BMwF-FBK-67-76)
crystal structure of hydrated, 22:14476 (BMwF-FBK-67-87)
precipitation of, 22:16478 (BNWL-680, pp 12-19)
promethium-147 beta decay in, differential thermal analysis of chemical effects of, 25:29172
solubility in nitric acid solutions, effects of pH, temperature, and complexing agents on, 22:16478 (BNWL-680, pp 12-19)
stability constants for, review on, 22:27682

PROMETHIUM OXIDES
compatibility of promethium-147-containing, with fuel capsule materials, (E), 24:20948(R) (BNWL-1308-1)
compatibility with heat resisting alloys for use in radioisotopic heat sources, 24:36859 (BNWL-1389)
compatibility with heat source capsule materials, 24:9595(R) (BNWL-1256)
crystal structure of, 23:41735(T) (BNWL-tr-30)
crystal structure of, 23:38173(R) (BNWL-1085)
decomposition oxygen pressures over test samples of, at high temperatures and low pressures, 25:55428 (BNWL-B-108)
dissolution in distilled water and synthetic seawater, 25:65 (CONF-700403-(Vol.1), pp 152-63)
dissolution rate in water, counting method for measurement of, 23:24379(R) (BNWL-1010)
distribution between molten iron and uranium dioxide at 2850 to 3000°C, 25:52318(R) (ANL-7820)
distribution of inhaled aerosols of, in dogs, tracer study of, 21:14530 (BNWL-280, pp 56-9)
distribution of inhaled, in tissues of dogs, 23:6339 (BNWL-714, pp 3.1-38)
fabrication and properties of promethium-147-enriched, for use as heat source, 24:22890
fabrication by slip casting, 21:32952 (BNWL-437)
fabrication of pellets of, by cold sintering and pressing, 22:28010(R) (BNWL-681)
fabrication of promethium-147-enriched heat sources of, 25:4217(P)
fabrication of promethium-147-enriched heat sources of, for cardiac pacemaker, 23:35427
fabrication of promethium-147-enriched, methods for, 23:38173(R) (BNWL-1085)
formation of, comparison of literature and calculated heat of, 21:19619
particle size of as-produced, in oxalate decomposition processes, 22:17101 (BNWL-680, pp 25-6)
phase studies of, description of differential thermal analysis equipment for, 23:24379(R) (BNWL-1010)
phase transformation in, 23:13739
preparation and properties of promethium-147-enriched, for use as heat source, 23:21889 (BNWL-994)
preparation of dense promethium-147-enriched heat sources of, 23:29090 (BNWL-1041)
preparation of high-specific-activity promethium-147-enriched, 22:31444
preparation of microspheres of, by sol-gel process, 22:31444
preparation of microspheres of, by sol-gel process, 23:8268 (CONF-681020-(Vol.2), pp 687-96)
preparation of microspheres of, by sol-gel process, 22:4859
properties of liquid, radiographic system for measurement of, 23:38173(R) (BNWL-1085)
properties of promethium-147-enriched, for use as heat source for betavoltaic batteries, 24:5817
properties of, data sheets on chemical, mechanical, and physical, 24:31590 (BNWL-1309)
properties of, development of Knudsen cell vapor pressure equipment for measurement of, 23:24379(R) (BNWL-1010)
properties of, electric and thermal, 22:33604 (BNWL-SA-1796)
reactions with water, 25:65 (CONF-700403-(Vol.1), pp 152-63)
reactions with water, thermograms of products from, 24:41240 (BNWL-1421)
solubility and dissolution rates in distilled water and synthetic seawater, 24:41240 (BNWL-1421)
solubility in fresh and saline water, temperature effects on, 22:17156 (BNWL-680, pp 20-4)
stability in carbon dioxide—carbon monoxide and hydrogen—water vapor atmospheres at 950°C, 24:4849(R) (BNWL-1177)
stability of sintered pellets of Pm_2O_3, in water, 22:17156 (BNWL-680, pp 20-4)
thermal analysis of calcined, (E), 23:50065
thermal capacity of cubic and monoclinic, at 300 to 1600°K, 24:4849(R) (BNWL-1177)
thermal diffusivity of, effects of decay samarium-147 on, 22:17166 (BNWL-680, pp 19-20)
use in heat source for radioisojet thruster, 22:37950
use in heat sources of, 22:2305 (BNWL-SA-1309)
vapor pressure of, at 2050 to 2250°C, 24:4849(R) (BNWL-1177)
Al—Pm_2O_3, fabrication into composite pellets by cold pressing, 23:44003 (BNWL-1014)
Pm_2O_3—Sm_2O_3, electric and thermal properties of, 22:33604 (BNWL-SA-1796)
Pm_2O_3—Sm_2O_3, phase diagram, 24:4849(R) (BNWL-1177)
Pm_2O_3—Sm_2O_3, phase studies, 23:38173(R) (BNWL-1085)
Pm_2O_3—Sm_2O_3, phase studies of, 25:19273 (BNWL-SA-3579)
Pm_2O_3—Sm_2O_3, stability of compacts of, in water, 22:17156 (BNWL-680, pp 20-4)
Pm_2O_3—W, densification by high-energy pneumatic impaction of cermets of, 23:36191
Pm_2O_3—W, fabrication for radioisotopic heat sources, 22:4360
Pm_2O_3—WO_3, bremsstrahlung emission from promethium-147 incorporating, effects of tungsten oxide content on, 24:31600
Pm_2O_3—ZnS, preparation of promethium-147-labeled light source of, 23:11724

PROMETHIUM OXYCHLORIDES
formation of PmOCl, heat of, 23:24164
preparation of PmOCl by vapor-phase hydrolysis of promethium chloride, 23:24164

PROMETHIUM, TRICYCLOPENTADIENYL-
preparation and identification of, 25:66 (CONF-700403-(Vol.1), pp 258-65)
preparation by neutron activation of tricyclopentadienylneodymium, 21:42999

PROMETHIUM TUNGSTATES
crystal structure of $Pm_2(WO_4)_3$, 24:20753
preparation of $Pm_2(WO_4)_3$, 24:20753

Prominences
see Solar Prominences

Prompt Neutrons
    see Neutrons, Prompt
PRONASE
  effects on digestion of thyroid homogenates, 22:466
PROOF TEST FACILITY
    (Fuel element test assembly at Pawling, N.Y.)
  design of, safety analysis of, 22:18552 (DOCKET-50290-1)
  nuclear incidents in, safety analysis of, 22:18552 (DOCKET-50290-1)
  operations procedures for, safety analysis of, 22:18552 (DOCKET-50290-1)
  owners of, fiscal balance sheets concerning, 22:18553 (DOCKET-50290-2)
  safety instrumentation for, design of, 22:18553 (DOCKET-50290-2)
  siting of, safety analysis of, 22:18552 (DOCKET-50290-1)
  technical specifications for, 22:18552 (DOCKET-50290-1)
  technical specifications for, modifications to, 22:18554 (DOCKET-50290-3)
Proof Test Facility (Core mockup for Fast Test Reactor)
    see Fast Test Reactor
Propadiene
    see Allene
Propamine
    see Amphetamine
PROPANE
  alpha-particle stopping by, (E), 23:22885
  bubble density and growth in bubble chambers filled with, 22:12629 (CERN-67-26(Vol.2), pp 405-12)
  bubble growth in liquid, in bubble chamber, 23:2654
  carbon deposition from, in fluidized beds, 21:13241 (ORNL-TM-1649)
  charged particle reactions with, ion formation energy in, 21:41815
  content of natural gas produced in Project Gasbuggy, 23:495 (UCRL-71314(Rev.1))
  content of tritiated, in Gasbuggy chimney or formation gas, 25:44476 (UCRL-50635(Rev.2))
  content of tritium-labeled, in chimney gas produced by Project Gasbuggy, 24:20930 (UCRL-72153)
  determination in air using krypton-85-labeled platinum oxide detectors, 24:29591 (NYO-4069-1)
  determination in calibration flaring samples from Rulison Project, 25:23523 (UCRL-50986)
  determination in gases produced by Gasbuggy nuclear explosion, 23:45185
  determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  determination in Project Gasbuggy chimney gas by mass spectrometric and radiochemical methods, 23:31452 (UCRL-50635)
  determination of tritium-labeled, in Project Gasbuggy chimney gas, radiochemical method for, 24:16728 (UCRL-50635(Rev.1))
  deuterium exchange reactions with hydrogen in, on fuel-cell electrode, mechanism of, 22:33346
  deuterium exchange reactions with, on copper and nickel surfaces, isotope effects in catalytic, 23:13705
  deuterium exchange with hydrogen in, criterion for reactivity of nickel-catalyzed, 24:27048
  deuterium exchange with, over nickel films, 23:26257
  deuterium ion reactions at 10 to 50 keV, double charge-exchange cross sections for, (E), 21:6976 (CEA-R-2952)
  deuterium ion reactions, energy transfer and collisional deactivation in, 21:35951
  diffusion of, in Vycor glass, 21:8271
  effects of deuterated, on γ-radiolysis of cyclohexane, 22:27760
  effects on hydrogen yields in γ radiolysis of gaseous ammonia at high densities, 23:15915
  effects on radiolysis of ammonia, 25:2283
  effects on sorption of iodine-131-labeled iodine and iodomethane by ion exchange materials, 24:2267 (IN-1316, pp 85-9)
  effects on yields from radiolysis of ammonia, 22:2127
  electron range and stopping power for, (E), 21:11393 (NASA-SP-3036)
  electron reactions at 1.25 to 4 GeV, electron pair production from, (E), 21:18879 (JINR-P1-3143)
  electron reactions with, production of 2S hydrogen atoms in, (E), 23:22919
  electron reactions with, specific primary ionization from, 23:817 (ANL-7360, pp 1-67)
  electron swarms in, Townsend energy coefficients for, (E), 21:24906
  energy level transitions in, forbidden electronic, (E), 22:11193 (CALT-532-20)
  film boiling burnout heat flux for, in heated forced-convection dispersed-flow, 23:33321 (DSR-70586-63)
  helium-metastable-atom reactions with, ionization cross sections for, (E), 24:6371
  hydrogen ion reactions at 10 to 50 keV, double charge-exchange cross sections for, (E), 21:6976 (CEA-R-2952)
  hydrogen-ion range in, at 5 to 50 keV, (E/T), 22:999
  hydrogen-ion reactions at 0.9 to 1.3 MeV, charge exchange cross sections for, 21:7011
  krypton ion reactions, 21:28036
  lithium ion reactions at 10 to 50 keV, double charge-exchange cross sections for, (E), 21:6976 (CEA-R-2952)
  mass spectra of, effects of deuterium on metastable transitions in, 21:35959
  mass spectra of, effects of deuterium on metastable transitions of, 21:3070
  melting phenomena in solid, 22:1123
  meson range and stopping power for, (E), 21:11393 (NASA-SP-3036)
  photoelectron energy spectra and angular distributions from, (E), 21:13359
  photolysis above and below 10.95 eV, vacuum uv, 23:28652 (CALT-532-35)
  photolysis of deuterated and normal, effects of hydrogen sulfide and nitric oxide on mechanism and yields in, 22:35869
  photolysis of gaseous and liquid deuterium-labeled and normal, mechanism of uv, 22:33375(R) (COO-1528-26)
  photolysis of, mechanism and yields in, 22:35869
  photolysis of, uv, 22:48872(R) (CALT-532-37)
  production by hydrolysis of uranium carbonitride, 24:16519
  production in radiolysis of acetonitrile, mechanism of, 22:37775 (BNL-50082, pp 40-78)
  production of, by reactions between tritium-containing hydrogen and carbon, 21:15957
  proton range and stopping power for, (E), 21:11393 (NASA-SP-3036)
  proton range in, biological effects from, (E), 22:29271
  pyrolysis for carbon deposition on thorium dioxide spheres, thermodynamics of, 24:23510 (ORNL-4531)
  pyrolysis for deposition of carbon on fuel particles, 24:42209
  radiation effects on electric conductivity of liquid, pulsed x, 25:29102
  radiation effects on, reaction intermediates of carbon-11 recoil atoms in proton, 22:14528
  radioinduced ionization of, effects of deuterium on electron, 21:40921
  radioinduced solvated electrons in liquid, absorption spectrum and half-life of pulsed electron, 25:57468
  radioinduced thermal cracking of, at 350 to 480°C, activation energy and mechanism of γ, 23:40729
  radiolysis in gas phase, effects of xenon on, 21:34309
  radiolysis of gaseous and liquid, effects of ethylene, nitrous oxide, and sulfur hexafluoride on hydrogen yields from γ, 24:22677
  radiolysis of gaseous, calculation of radiation-chemical yields in, 22:2128
  radiolysis of gaseous, yields from α, 25:4119
  radiolysis of liquid, effects of dose, phase, and temperature on radical yields from γ, 22:18833
  radiolysis of liquid, γ, 22:27840
  radiolysis of liquid, ion reactions in γ, 23:49849
  radiolysis of liquid, non-radical reactions in γ, 22:21103
  radiolysis of rare gas-sensitized liquid, kinetics of, 22:2155
  radiolysis of rare gas-sensitized, ionic fragmentation patterns for, 22:2161
  radiolysis of, effects of positive ion scavenging by benzene on x, 25:44398
  radiolysis of, ionic fragmentation patterns for, 22:2161
  radiolysis of, method for accumulating energy produced by, 25:8292(P)
  radiolysis of, perturbed orbital energies in, 22:12358
  reactions of ionized, with helium and hydrogen, 22:5809(R) (ANL-7354)
  reactions of solid, with tritium atoms produced by electron impact on tritium gas, products from, 22:10240
  reactions with carbon atoms formed in radiolysis of carbon dioxide, 22:18820
  reactions with helium tritides formed by beta decay of molecular tritium, kinetic studies on, 25:34676
  reactions with methane under simulated radiolysis conditions, mass spectrometric studies on, 25:34645
  reactions with recoil carbon-11, effects of pressure on yields from, 24:4332
  reactions with recoil nitrogen-13, 24:19013
  reactions with recoil tritium atoms, competitive, 24:7460
  reactions with singlet and triplet methylene, 23:6118
  refractive indices of liquid, used in bubble chambers at 17.4 to 65.8°C and 7.6 to 23.4 atm pressure, 22:16909
  solubility in hydrofluoric acid, 24:11505 (IA-1190, pp 133-81)
  sorption by graphitized, 21:41653
  spectra of metastable transitions in, deuterium isotope effects on mass, 24:22628
  spectra of, effects of deuterium on infrared, 22:12295
  storage of liquid, method of explosion venting buildings used for, 23:2644 (RHEL/R-168)
  thermodynamic properties of, for use as bubble chamber liquid, 25:10876
  torsional frequency calculations, errors in rigid-frame approximation, 24:40181 (IN-1317, pp 153-208)
  torsional vibrations of methyl radicals in gaseous, liquid, and solid, neutron inelastic scattering study, 24:40181 (IN-1317, pp 153-208)
  tritium decay in gaseous and liquid, reactions of carbonium ions from, 21:40942
  use in arresting gas detonations and fires in nuclear cavities, 22:12458 (MSAR-67-187)
  use in formation of pyrolytic carbon coatings at high deposition rates, 21:36909
  use of tritiated, for measurement of oil—gas displacement in oil shales, 22:14692
  use of tritiated, to measure permeability of thick membranes to liquid hydrocarbons, 22:28977
  yields from γ radiolysis of 1-chloropropane in ethanol, effects of benzene, calcium chloride, hydrochloric acid, and hydrogen or chloride ions on, 24:38965
  yields from γ radiolysis of 4-methyl-1-pentene polymers, ESR studies on, 25:23621
  yields from γ radiolysis of carbon monoxide—methane mixtures, 23:43339 (JUL-563-PC)
  yields from γ radiolysis of ethane, effects of additives on, 25:23615
  yields from radiolysis of 2-methylpropane, 22:8143
  yields from radiolysis of gaseous ethyl methyl ether, 24:11578 (JAERI-5022, pp 180-4)
  yields from radiolysis of liquid butyl methyl ether, effects of diphenylpicrylhydrazyl on, 22:42718(T) (AEC-tr-6937, pp 170-5)
  yields from radiolysis of liquid ethane at 195°C, effects of cyclopentane on, 24:22676
  yields from reactor radiolysis of dimethyldiphenylsilane and trimethylphenylsilane at high temperature, 24:48130
  yields in gamma radiolysis and uv photolysis of liquid nitroethane, 22:10298
  yields in gamma radiolysis of 2,2,4- and 2,3,4-trimethylpentane, effects of postirradiative additions of iodine on, 22:99
  yields in gamma radiolysis of alkene—ethylene copolymers and 3-methyl- and 4-methyl-1-pentene polymers, 21:45175
  yields in gamma radiolysis of argon—ethylene and ethylene solutions at -161°C, 21:36045
  yields in gamma radiolysis of hexane systems with cyclopentane or 2,2,4-trimethylpentane, energy transfer mechanism for, 21:30476
  yields in gamma radiolysis of liquid nitromethane, 22:10297
  yields in γ radiolysis of dilute solutions of cyclopropane in cyclohexane or hexane, effects of dose on, 23:15884
  yields in γ radiolysis of liquid and solid dimethylmercury, effects of dose, radical scavengers, and temperature on, 23:268
  yields in γ radiolysis of liquid ethane, 23:2317
  yields in γ radiolysis of tetrahydrofuran, effects of dose on, 23:245
  yields in radiolysis of cyclopentane, 22:50998
  yields in radiolysis of gaseous cyclohexane, effects of nitric oxide on, 22:35836
  yields in radiolysis of liquid butyl methyl ether, effects of diphenylpicrylhydrazyl on, 22:8133
  yields in radiolysis of nitrogen—hydrocarbons, effects of carbon-11 production in, 21:120
  air—propane, Langmuir probe measurement of electron temperature in plasma jets of, 24:47205
  Ar—propane, photolysis of, mechanism and yields from uv, 24:22678
  Ar—propane, radiolysis of liquid, effects of oxygen on yields in γ, 23:285
  Ar—propane, radiolysis of, mechanism and yields from γ, 24:22678
  benzene—O—propane, radiolysis of, mechanism and yields from γ, 25:39539
  bromomethane—D_2O—propane, radiolysis of, reactions of electrons and deuterium or hydrogen atoms with bromomethane in γ, 21:40912
  bromotrifluoromethane—propane, thermodynamic and physical properties of, for use in bubble chambers, 23:45551
  CO—O—propane, radiolysis of, formation of carbon monoxide and carbon dioxide in γ, 23:11557
  D_2O—O—propane, radiolysis of, reactions of electrons and deuterium or hydrogen atoms with oxygen in γ, 21:40912
  D_2O—propane, radiolysis of, effects of nitrous oxide and selenium hexafluoride on deuterium formation in gamma, 21:15947
  dimethylsilane—propane, reactions with recoil tritium atoms, competitive, 24:7460
  He—propane, pyrolysis in fluidized beds at 1200 to 1400°C, deposition of pyrolytic carbon by, 23:8263
  Kr—propane, radiolysis of liquid, effects of oxygen on yields in γ, 23:285
  methane—O—propane, radiolysis of, yields from γ, 24:4313
  N_2O—propane, radiolysis of gaseous, effects of alcohols on yields from γ, 22:10285
  N_2O—propane, radiolysis of gaseous, effects of polar molecules on reactions of negative ions in γ, 23:45335
  N_2O—propane, radiolysis of gaseous, nitrogen yields in gamma, 22:2117
  N_2O—propane, radiolysis of, effects of hydrochloric acid on yields of hydrogen and nitrogen from γ, 24:27133
  N_2O—propane, radiolysis of, effects of methyl bromide on methane and nitrogen yields in, 22:96(R) (RRL-2310-214)
  N_2O—propane, radiolysis of, yields of nitrogen from, 21:35990(R) (RRL-2310-208)
  N_2O—propane—propene, radiolysis of gaseous, nitrogen yields in gamma, 22:2117
  N—propane, radiolysis of, effects of helium and neon on yields from, 21:120
  Ne—propane, photolysis at various pressures, vacuum uv, 23:28652 (CALT-532-35)
  NH_3—propane, radiolysis of vaporous, effects of nitrous oxide and sulfur hexafluoride on hydrogen yields from γ, 23:40762
  NH_3—propane, radiolysis of, effects of nitrous oxide or sulfur hexafluoride on yields of hydrogen and nitrogen from, 23:47534
  NH_3—propane, radiolysis of, yield of hydrogen atoms from γ, 22:42781
  O—propane, radiolysis of, formation of carbon monoxide and carbon dioxide in γ, 23:11557
  O—propane, use in explosive mixtures for driver in four-inch shock tubes, 22:25626 (ORNL-TM-2094)
  O—propane—toluene, radiolysis of, mechanism and yields from γ, 25:39539
  propane—rare gases, radiolysis of, γ, 22:27840
  propane—$SiCl_4$, pyrolysis for production of siliconated pyrolytic graphite, 23:34068
  propane—Xe, photolysis of, mechanism and yields from uv, 24:22678
  propane—Xe, radiolysis of liquid, effects of oxygen on yields in γ, 23:285
  propane—Xe, radiolysis of, mechanism and yields from γ, 24:22678
PROPANE, ASTATO-
  boiling point of, gas chromatographic studies on, 25:34604 (JINR-P6-5683)
  preparation and properties of, 25:112(T) (ANL-Trans-859)
PROPANE, 1-BROMO-
  effects on production of free radicals in γ-radiolysis of organic glasses, 22:27756
  radiation effects on cavitation threshold of, neutron, 22:27748
  radiation effects on, isotope effects and reactions of bromine-80m and bromine-82 recoil atoms produced by neutron, 24:50410 (CONF-690916-(Vol.2), pp 227-38)

radioinduced isomerization of, kinetics of γ, 21:8362
radiolysis in cyclopentane, electron scavenging in, 23:2312(R) (RRL-2310-251)
radiolysis of glassy, polycrystalline, at 77°K, ESR spectral studies on γ, 22:2111
radiolysis of, yields from γ, 21:24047
reactions with electrons, 22:37780(R) (RRL-2310-242)
bromobenzene—1-bromopropane, bromine-82 isomeric transition in, chemical effects from, 22:37820
1-bromopropane—methanol, reactions with bromine-82 activated by isomeric transition, 21:36065

PROPANE, 2-BROMO-
radiation effects on, isotope effects and reactions of bromine-80m and bromine-82 recoil atoms produced by neutron, 24:50410 (CONF-690916-(Vol.2), pp 227-38)
radiolysis in 3-methylpropane glass, absorption spectra of products from γ, 23:35246
radiolysis in cyclopentane, electron scavenging in, 23:2312(R) (RRL-2310-251)
2-bromopropane—toluene, radiolysis in 3-methylpentane glass, absorption spectra of products from γ, 23:35246

PROPANE, 1-BROMO-3-CHLORO-
tritium exchange with, mechanism of self-induced, 24:13837

PROPANE, 2-BROMO-2-CHLORO-
hydrolysis of, effects of deuterium on, 24:38834

PROPANE, 1-BROMO-2-METHYL-
photolysis of, free radical chain reactions in, 24:27170
potassium scattering by, crossed-molecular-beam measurements of differential cross sections for nonreactive, 23:34279
radiolysis of, free radical chain reactions in, 24:27170
radiolysis of, γ, 24:33724
radiolysis of, photoinduced isomerization of tert-butyl radical from γ, 21:19672
radiolysis of, yields from γ, 21:24047
1-bromo-2-methylpropane—2-methylpropene, radiolysis of, γ, 24:33724
1-bromo-2-methylpropane—ethylene, radiolysis of, γ, 24:33724
1-bromo-2-methylpropane—HBr, radiolysis of, γ, 24:33724

PROPANE, 2-BROMO-2-METHYL-
solvolysis of, Broensted correlation for effects of metal ions on, 25:54548

PROPANE, 1-CHLORO-
effects on γ-induced luminescence from phosphors in cyclohexane, 22:27759
effects on nitrogen yields from γ-radiolysis of cyclohexane—nitrous oxide solutions, 22:27759
photoinduced chlorination with iodobenzene dichloride, effects of deuterium on, 21:25829
photolysis of, yields from, 21:8367
radioinduced isomerization of, kinetics of γ, 21:8362
radiolysis in ethanol, effects of benzene, calcium chloride, hydrochloric acid, and hydrogen or chloride ions on yields from γ, 24:38965
radiolysis of, yields from γ, 21:8367
reactions with recoil tritium, kinetics of, 22:16628

PROPANE, 2-CHLORO-
decomposition on powdered magnesium phosphate at 480 to 660°K, deuterium isotope effects on hydrogen chloride elimination in, 23:6096
radioinduced isomerization of, kinetics of γ, 21:8362
radiolysis at 77°K, EPR studies of free radicals formed by, 22:30633
reactions with recoil tritium, kinetics of, 22:16628
yields of, from gamma telomerization of propylene with carbon tetrachloride, 21:8350

PROPANE, 1-CHLORO-2-(CHLOROMETHYL)-2,3-EPOXY-
radioinduced polymerization of, electron, photon, or proton, 24:27165(P)

PROPANE, 1-CHLORO-2,3-EPOXY-
radioinduced polymerization of, electron, photon, or proton, 24:27165(P)
radioinduced polymerization of, with trioxane, 21:17671

PROPANE, 1-CHLORO-3-IODO-
tritium exchange with, mechanism of self-induced, 24:13837

PROPANE, 1-CHLORO-2-METHYL-
radioinduced isomerization of, kinetics of γ, 21:8362

PROPANE, 2-CHLORO-2-METHYL-
dehydrochlorination in acetonitrile, effects of deuterium on, 23:35083
dehydrochlorination in acetonitrile, effects of deuterium on, 22:12322
hydrolysis of, effects of deuterium on, 23:35111
hydrolysis of, effects of deuterium on, 24:38834
ionization of, theoretical calculations for effects of deuterium on, 23:33197
radioinduced isomerization of, kinetics of γ, 21:8362
radiolysis at 77°K, EPR studies of free radicals formed by, 22:30633
radiolysis of phenyl acetate containing glasses of, ESR studies of γ, 24:11613
solvolysis in 2,2,2-trifluoroethanol—water mixture, effects of deuterium on, 23:40644
solvolysis in various solvent mixtures, effects of deuterium on, 22:18784
solvolysis of, Broensted correlation for effects of metal ions on, 25:54548
solvolysis of, deuterium isotope effects on, 21:10302(R) (COO-1008-1)
yields from γ radiolysis of liquid 2,2-dimethylpropane, effects of additives on, 25:26309

PROPANE, 2,2-DIBROMO-
hydrolysis of, effects of deuterium on, 24:38834

PROPANE, 1,2-DICHLORO-
chlorine-36 exchange between lithium chloride and, in methanol, 22:10316
preparation of chlorine-36-labeled, by exchange reactions with labeled lithium chloride, 22:10316

PROPANE, 2,2-DIMETHYL-
2,2-dimethylpropane—ethanol, radiolysis of, ion—molecule reactions in γ, 21:42969
deuterium exchange with hydrogen in, effects of intraparticle diffusion on, 21:35980
effects on uv photolysis of deuterated and normal formaldehyde, 21:23909
hydrogen atom scattering at 0.05 to 0.5 eV by, velocity dependence of total cross sections for, (E), 21:18424
isotopic exchange between deuterium and, effects of desorption and diffusion on, 22:8059
molecular structure of liquid, x-ray diffraction studies of, 21:21920 (ORNL-4103)
radiation effects on electric conductivity of liquid, γ, 23:43340
radiation effects on liquid, at 23°C, yields of free ions in x, 23:278
radiation effects on, ESR study of radicals from γ and x, 22:27816
radiation effects on, reaction intermediates of carbon-11 recoil atoms in proton, 22:14528
radioinduced electric conductivity in liquid, γ radiolysis of, yields of ions from γ, 24:22709
radiolysis at 23°C, effects of molecular structure on effects of deuterated ammonia and nitrous oxide on yields from γ, 25:4113
radiolysis in liquid alkanes and cycloalkanes, effects of carbon tetrachloride and sulfur hexafluoride on yields in, 23:7553
radiolysis of gaseous, ESR study of radicals from electron, 25:51509 (FRNC-TH-221)
radiolysis of gaseous, isomerization of butyl ions in γ, 25:2290
radiolysis of liquid, effects of electron localization efficiency on free ion yield in γ, 23:43340
radiolysis of liquid, effects of ion scavengers on fragmentation of excited ions in γ, 22:10274
radiolysis of liquid, kinetics of reactions of electron scavengers and hydrocarbons with ions produced by γ, 25:26309
radiolysis of, effects of ammonia on yields and reactions of ions from, 21:3089
radiolysis of, effects of ammonia on yields of 2-methylpropene in, 21:14234(R) (AGN-8183)
radiolysis of, effects of molecular structure on free-ion yield from γ, 22:42757
radiolysis of, effects of molecular structure on free-ion yield from γ, 23:4671
radiolysis of, effects of nitrous oxide or styrene on hydrogen and methane yields from γ, 25:6367
radiolysis of, rate of reactions of alkanes with tert-butyl ions produced by γ, 24:44038
reactions of recoil tritium with, 22:40130
reactions with recoil carbon-11, effects of pressure on yields from, 24:4332
reactions with recoil tritium atoms, competitive, 24:7460
reactions with recoil tritium atoms, effects of various scavenger—moderator combinations on HT yields from, 22:45125
spectra of, effects of deuterium on ir, 24:27084
structure of liquid, x-ray diffraction studies on, 21:45089 (ORNL-4164, pp 101-44)
thermal cracking of, effects of temperature on kinetic isotope effects in, 22:16481 (COO-1540-7)
thermal decomposition of, effects of carbon-13 on, 23:35099
torsional vibrations in gaseous, liquid, and solid, neutron inelastic scattering study, 24:40181 (IN-1317, pp 153-208)
vapor pressure of, effects of deuterium on, 23:43295
vibrational transitions in liquid, small-kappa neutron inelastic scattering study of intramolecular, 24:10376
yields from radiolysis of 2-methylpropane, 22:8143
2,2-dimethylpropane—2-methylbutane, radiolysis of, rate of reactions of alkenes with tert-butyl ions produced by γ, 24:44038
2,2-dimethylpropane—tetramethylsilane, reactions with recoil tritium atoms, 24:7460
carbon tetrachloride—2,2-dimethylpropane, structure of liquid, x-ray diffraction studies on, 21:45089 (ORNL-4164, pp 101-44)
carbon tetrachloride—2,2-dimethylpropane, x-ray diffraction studies on, at 0°C, 22:8041 (ORNL-4203)
2,2-dimethylpropane—N, radiolysis of, hydrocyanic yields in fissiochemical, 21:10368(R) (AGN-8178)

PROPANE, 1,3-DIPHENYL-
radiation effects on intramolecular energy transfer in, γ, 23:19785
radiolysis of, ESR study of radicals from γ, 21:36010

PROPANE, 2,2-DIPHENYL-
radiation effects on intramolecular energy transfer in, γ, 23:19785
radiolysis of, ESR study of radicals from γ, 21:36010

PROPANE, 1,2-EPOXY-2-METHYL-
radioinduced polymerization of liquid, mechanism of x, 25:2256
radioinduced polymerization of, electron, photon, or proton, 24:27165(P)
yields from γ radiolysis of 2-methyl-2-propanol at 30°C, 25:34659

PROPANE, 1,2-EPOXY-3-PHENOXY-
CO—1,2-epoxy-3-phenoxypropane, radioinduced polymerization of, ir spectral studies on products from γ, 23:26298

PROPANE, 1,2-EPOXY-2-PHENYL-
radioinduced polymerization of, electron, photon, or proton, 24:27165(P)

PROPANE, 2-FLUORO-2-METHYL-
hydrolysis of, effects of hydrated metal ions on, 24:18968
solvolysis of, Broensted correlation for effects of metal ions on, 25:54548

PROPANE, HEPTAFLUORO-2-(TRIFLUOROMETHYL)
radiolysis of, yields in γ, 22:18836

PROPANE, 1-IODO-
effects on yields from reactions of isomeric-transition-activated bromine-82 and neutron-capture-activated bromine-80 or bromine-82 with hexane at 77°K, 23:19743 (COO-1617-14)
effects on yields from reactions of neutron-capture-activated iodine-128 with polycrystalline cyclohexane at 77°K, 23:19743 (COO-1617-14)
iodine-131 exchange between zinc iodide and, kinetics of, 23:2273
radiation effects on glasses of, at 77°K, kinetics of decay of alkyl radicals produced by γ, 25:18461
radiation effects on, distribution of recoil iodine-128 in organic products from thermal neutron, 24:18985(R) (COO-1617-19)
radiation effects on, organic yields of recoil iodine-128 from thermal neutron, 24:19026
radiolysis of glassy, polycrystalline, at 77°K, ESR spectral studies on γ, 22:2111
radiolysis of, in 3-methylpentane glass at 77°K, γ, 21:15949

PROPANE, 2-IODO-
effects on yields from reactions of neutron-capture-activated iodine-128 with polycrystalline cyclohexane at 77°K, 23:19743 (COO-1617-14)
radioinduced reactions with hexane and iodine-129, iodine-128- and -130-labeled organic yields in neutron, 22:101

PROPANE, 1-IODO-2-METHYL-
iodine-131 exchange between molecular iodine in hexachlorobutadiene and, 22:25369

PROPANE, 2-METHYL-
determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
deuterium exchange with hydrogen in, criterion for reactivity of nickel-catalyzed, 24:27048
photochlorination of, effects of tritium on, 22:18774
photolysis of gaseous, effects of deuterium on, 22:16607
production of, by reactions between tritium-containing hydrogen and carbon, 21:15957
radiation effects on, ESR study of radicals from γ and x, 22:27816
radiolysis at 77 and 195°K, effects of phase on excitation transfer in γ, 25:41864
radiolysis at 77°K, effects of carbon tetrachloride on yields from γ, 24:33716
radiolysis of crystalline and glassy, ESR spectral studies on free radicals trapped by γ, 23:40763
radiolysis of gaseous, ESR study of radicals from electron, 25:51509 (FRNC-TH-221)
radiolysis of gaseous, isomerization of propyl ions in γ, 25:2290
radiolysis of gaseous, role of superexcited molecules in, 22:16607
radiolysis of liquid, effects of ammonia and sulfur hexafluoride on reactions of ions in γ, 23:283
radiolysis of polycrystalline and glassy, ESR spectra of butyl radicals from γ, 25:29161
radiolysis of solid, at 77°K, effects of phase on γ, 25:170
radiolysis of solid, ESR study of radical formation in γ, 23:40711
radiolysis of, effects of density on fragmentation of excited ions in γ, 22:10273
radiolysis of, fragmentation of excited ions in, 23:19799
radiolysis of, perturbed orbital energies in, 22:12358
radiolysis of, production of hydrogen from electron, 24:9347(R) (ORO-2001-17)
reactions with helium tritides formed by beta decay of molecular tritium, kinetic studies on, 25:34676
reactions with recoil carbon-11, effects of oxygen on, 22:12393
reactions with recoil tritium atoms, competitive, 24:7460
reactions with recoil tritium, effects of deuterium on, 24:9400
reactions with recoil tritium, effects of deuterium and phase on, 22:27755
reactions with singlet and triplet methylene, 23:6118
response of, in ionization chambers, relative weight and molar, 23:4808(T) (NSJ-tr-128)
sorption by graphitized carbon, 21:41653
torsional vibrations of methyl radicals in gaseous, liquid, and solid, neutron inelastic scattering study, 24:40181 (IN-1317, pp 153-208)
yields from γ radiolysis of 4-methyl-1-pentene polymers, ESR studies on, 25:23621
yields from γ radiolysis of carbon monoxide—methane mixtures, 23:43339 (JUL-563-PC)
yields from γ radiolysis of ethane, effects of additives on, 25:23615
yields from γ radiolysis of gaseous ethylene in presence of 2-methylpropene, 25:57474
yields from γ radiolysis of liquid 2,2-dimethylpropane, effects of additives on, 25:26309
yields from γ radiolysis of methane, effects of ammonia, methanol, and 2-methylpropene on, 23:28905
yields from radiolysis of 2-methylpropene, 22:8143
yields from reactor radiolysis of dimethyldiphenylsilane and trimethylphenylsilane at high temperature, 24:48130
yields in gamma radiolysis and uv photolysis of liquid nitroethane, 22:10298
yields in gamma radiolysis of 2,2,4-trimethylpentane systems with cyclopentane or hexane, energy transfer mechanism for, 21:30476
yields in gamma radiolysis of alkene—ethylene copolymers and 3-methyl- and 4-methyl-1-pentene polymers, 21:45175
yields in γ radiolysis of liquid propane—rare gas mixtures, effects of oxygen on, 23:285
yields in radiolysis of gaseous cyclohexane, effects of nitric oxide on, 22:35836
2-methylpropane—N, radiolysis of, yields in fission fragment, 21:10370(R) (AGN-8196(Vol.2))
2-methylpropane—toluene, radiolysis at 77°K, ESR study of intermediates from γ, 25:21053
2-methylpropane—trimethylsilane, reactions with recoil tritium atoms, 24:7460
3-methylpentane—2-methylpropane, radiolysis of crystalline and glassy, ESR spectral studies on free radicals trapped by γ, 23:40763

  3-methylpentane—2-methylpropane, radiolysis of solid, at 77°K, effects of phase on γ, 25:170
  benzene—2-methylpropane, radiolysis at 77°K, ESR study of intermediates from γ, 25:21053
  H_2S—2-methylpropane, photolysis of, effects of deuterium on, 22:16607
  methylcyclohexane—2-methylpropane, radiolysis of solid, at 77°K, effects of phase on γ, 25:170
PROPANE, 2-METHYL-2-NITRO-
  radiolysis of solid, in ethanol, ESR spectral studies on radical formation in γ, 21:32206
PROPANE, 1-NITRO-
  radiolysis of solid, in ethanol, ESR spectral studies on radical formation in γ, 21:32206
  reactions with electrons and hydrogen produced by radiolysis of water, rate of, 21:25901
  reactions with nitric acid in presence of nitrite, effects on oxidation of pentavalent neptunium of product from, 23:26210 (BNWL-1017)
PROPANE, 2-NITRO-
  ionization in tert-butyl alcohol as catalyzed by collidine, effects of tritium on, 21:10364
  reactions of deuterated and normal, with iodine in presence of pyridines, isotope effects and rates for, 21:23874
  reactions with 2,6-lutidine, effects of deuterium on, 22:6309
  reactions with hydroxide ions, deuterium isotope effects in proton transfer, 21:1348
  reactions with pyridine, deuterium isotope effects in proton transfer, 21:1348
  solvent properties for alkali metals, 24:9476
  tritium exchange between 2,4,6-trimethylpyridine and, 22:40070
PROPANE, OCTAFLUORO-
  electron capture by, microwave cavity resonance method for studying gaseous thermal, 21:2230 (UCRL-17171)
  electron reactions with, attachment and ionization cross sections for, 21:31225
  radiolysis in hexane, yields from γ, 23:17495
  radiolysis of, analysis of products from γ, 24:7443(R) (ORO-3909-1)
  radiolysis of, yields in γ, 22:18836
  rare gas ion reactions with, dissociative charge exchange in, (E), 21:18456
  yields in gamma radiolysis of liquid hexafluoroethane at -78°C, effects of oxygen scavenger on, 21:30473
PROPANE, 1,1,2,3,3-PENTACHLORO-
  yields in radiolysis of chloroform by pulse from nuclear explosion, 22:40132
1-PROPANEARSONIC ACID
  radiolysis of, electron spin resonance spectra of radicals from gamma, 21:25904
1,2-PROPANEDIAMINE
  complexes with cobalt, reactions of recoil cobalt-60g and -60m with, 21:40943
  radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  reactions with metals, effects of temperature on EPR spectral studies on, 23:2259(R) (COO-958-13)
1,3-PROPANEDIAMINE
  reactions with metals, effects of temperature on EPR spectral studies on, 23:2259(R) (COO-958-13)
Propanedioic Acid
  see Malonic Acid
1,2-PROPANEDIOL
  carbonate, effects on polarographic behavior of anhydrous and hydrated uranium(IV) and uranyl compounds, 23:31345
  effects on aminoacylation of transfer-RNA, 24:13736 (ORNL-4466, pp 41-62)
  effects on γ-radiation effects on viscosity of albumin, 24:31372
  effects on ion exchange behavior of metals in hydrobromic acid, 23:40834
  effects on ion exchange of metals in hydrobromic acid, 23:19855
  effects on separation of cesium from sodium by ion exchange using Zeolite Linde A, 25:13091
  effects on separation of trace amounts of scandium from rare earths by ion exchange, 23:4721
  polymers of, use in extraction of gold, 21:25956
  polymers, radiolysis of, ESR spectral studies on free radicals produced by γ, 23:6155
  radiation protection by, relation of, to effects on oxygen tension in mouse tissues, 21:22596
  radioprotective effects of, on mouse stem cells, x, 25:4571
  reactions with uranium pentaethoxide, 25:6298
  yields from reactions of carbon-11 recoils with methanol, effect of benzene on mechanism for production of, 24:38898 (IS-T-366)
  1,2-propanediol—tetrachlorophthalic anhydride, polymers, radiation effects on, in air, nitrogen, and vacuum, γ, 24:29343
  2,5-diphenyloxazole—1,2-propanediol—2,2'-p-phenylenebis[5-phenyloxazole]—toluene, use for activity counting of biological materials, effects of benzyldimethyl-[2-[2-[[4-(1,1,3,3-tetramethylbutyl)tolyl]oxy]ethoxy]ethyl]ammonium hydroxides, 21:43271
  HCl—1,2-propanediol, effects of, on ion exchange of elements on Dowex 50 x 8, 21:14302
  HF—1,2-propanediol, effects of ion exchange of elements on Dowex 50 x 8, 22:10341
1,3-PROPANEDIOL
  enzymatic cleavage in soluble protein fraction of rat liver, 21:34680 (TID-23834)
1,3-PROPANEDIOL, 2-AMINO-2-HYDROXYMETHYL-
  acetate, radioinduced removal of dissolved oxygen from aqueous, electron and x, 23:40728
  analysis for impurities, coulometric, 22:9(R) (NBS-TN-425)
  effects on survival of irradiated mice, 21:24478
  enthalpy of solution of, effects of carbon dioxide on, 25:44367(R) (ANL-7821)
  permeability of Streptococcus faecalis to, effects of antibiotics on, 21:39335
  reactions of, mechanisms in Mannich, 24:16405(T) (UCRL-Trans-10387)
1,3-PROPANEDIOL, 2,2-DIETHYL-
  solvent properties for boric acid in aqueous sodium chloride solutions, 24:11505 (IA-1190, pp 133-81)
1,3-PROPANEDIOL, 2-ETHYL-2-(HYDROXYMETHYL)-
  trimethacrylate, effects on electron-induced polymerization of methyl acrylate—1,2-polybutadiene, 25:10609 (JAERI-5026, pp 130-6)
1,2-PROPANEDIOL, 3-(HEXADECYLOXY)-
  enzymatic cleavage in soluble protein fraction rat liver, 21:34680 (TID-23834)
  radioprotective effects of, review on, 21:34680 (TID-23834)
1,3-PROPANEDIOL, 2-(HYDROXYMETHYL)-
  2-(hydroxymethyl)-1,3-propanediol trimethacrylate—polychloroethylene, radiation effects on curing of, 25:18437(P)
1,3-PROPANEDIOL, 2-(HYDROXYMETHYL)-2-METHYL-
  cyclic phosphate, crystal structure of, 21:47015 (IS-T-183)
  decomposition in fused acetate eutectics, 23:148
1,2-PROPANEDIOL, 2-METHYL-1,1-DIPHENYL-
  conversion to 3,3-diphenyl-2-butanone, effects of deuterium on kinetics of, 22:35815
1,2-PROPANEDIOL, 3-(OCTADECYLOXY)-
  enzymatic cleavage in soluble protein fraction of rat liver, 21:34680 (TID-23834)
  method for synthesis of, 22:51849
  radioprotective effects of, on animals and man, γ and x, 22:51849
  radioprotective effects of, review on, 21:34680 (TID-23834)
1,3-PROPANEDIONE, 1-(p-AMINOPHENYL)-3-(2-NAPHTHYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1-(p-AMINOPHENYL)-3-PHENYL-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(m-AMINOPHENYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(p-AMINOPHENYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(p-METHOXYPHENYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(2-NAPHTHYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(m-NITROPHENYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-BIS(p-NITROPHENYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1,3-DI-2-FURYL-
  complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
1,3-PROPANEDIONE, 1,3-DIPHENYL-
  chelates with rare earths, infrared spectra and vibration modes of, 25:52606 (CONF-711001-(Vol.1), pp 64-72)
  complexes with actinides, binding energy and structure of, 23:9511(R) (MLM-1520)
  complexes with aromatic sulfoxides and uranyl ions, spectra of, ir and NMR, 23:35122
  complexes with copper and indium in mixtures with other β-diketones, stability constants for, 22:37776 (BNL-50082, pp 79-92)
  complexes with dysprosium and praseodymium, PMR spectral studies on, 23:108(T) (UCRL-Trans-10266)
  complexes with europium and terbium with and without piperidine, effects of deuterium on luminescence of, 22:18764
  complexes with europium and triethylene, fluorescence of americium-241-doped, 22:42792
  complexes with europium or terbium, spectroscopic properties of, effects of deuterium on, 23:6135
  complexes with europium, fluorescence spectral studies on composition of, 24:5649(T) (UCRL-Trans-10409)
  complexes with holmium, crystal and molecular structure of, 25:6324 (UCRL-19530, pp 261-9)
  complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
  complexes with rare earths, preparation, spectra, thermal stability, and volatility of, 23:35068
  complexes with rare earths, spectral studies on, 23:17339
  complexes with thorium and uranium, spectra of, proton NMR, 23:26252
  complexes with thorium or uranium, spectra of, NMR, 23:15929(R) (MLM-1526)
  complexes with thorium, spectra of, Raman, 25:31940
  complexes with uranyl ions, polarographic studies in nonaqueous solvents of, 23:21724
  complexes with uranyl ions, radiolysis of, physicochemical parameters of neutron, 25:31969 (NP-18785)
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
  effects on synergism in solvent extraction of cesium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:6394
  performance as indicator for spectrophotometric determination of trace uranium in solutions, 23:18259(R) (PNCT-AR-67)
  solvent properties for metals, synergism in, 23:11611
  solvent properties for scandium, synergistic effect of TOPO on, 23:26350
  solvent properties for uranium, effects of TBP on, 21:32261
  use as colorimetric reagent for uranium, ASTM method based on, 25:28976
  use in fluorimetric determination of europium and terbium in monazites, 22:33220
  1,3-diphenyl-1,3-propanedione—1-phenyl-1,3-butanedione, solvent properties for lutetium in aqueous solutions, effects of trioctylphosphine oxide on, 24:29369
  1,3-diphenyl-1,3-propanedione—trioctylphosphine oxide, solvent properties for lithium and sodium in basic aqueous solutions, 21:45210 (ORNL-4164, pp 24-34)
1,3-PROPANEDIONE, 1,3-DIPHENYL-1-THIO-
  use in determination of mercury by isotope dilution, 23:9340
1,3-PROPANEDIONE, 1,3-DI-2-THIENYL-
  complexes with neptunium or uranium, stability of, 25:34557 (KFK-1339)
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,3-PROPANEDIONE, 1-(4-METHOXY-5-BENZOFURANYL)-3-PHENYL-
  complexes with uranium, magnetic, spectral, and thermal properties of, 22:27705
  use in spectrophotometric determination of uranium, 21:17576
1,3-PROPANEDIONE, 1-(p-NITROPHENYL)-3-(2-NAPHTHYL)-
  effects on spectrophotometric determination of uranium, 24:2098 (IN-1316, pp 6-35)
1,2-PROPANEDITHIOL
  effects on elimination of gold-198 by mice, 21:36624
1,3-PROPANEDITHIOL, 2-AMINO-2-ETHYL-
  uses for protection against lethal radiation in bacteria and mice, 21:10978
1,3-PROPANEDITHIOL, 2-AMINO-2-METHYL-
  uses for protection against lethal radiation in bacteria and mice, 21:10978
1-PROPANESULFONIC ACID, 2,3-DIMERCAPTO-
  effectiveness for removal of polonium-210 from human skin, 22:43333
  effects on content of ammonia in brain tissue of rats, 22:19394
  evaluation for prevention of sorption of polonium-210 by rats via wounds, 23:22163(T) (AEC-tr-6944, pp 106-12)
  radioprotective effects of, on animal adrenal glands, x, 25:39915
  radioprotective effects of, on antigenicity of ascites tumor cell transplants in mice, x, 22:28611
  radioprotective effects of, on cells of Ehrlich's ascites carcinomas, x, 22:38354
  radioprotective effects of, on Ehrlich's ascites carcinoma cells in relation to content of nonprotein thiols, 24:751
  radioprotective effects of, on hypophyseal-adrenal cortex system of dogs and rats, x, 22:25896
  radioprotective effects of, on mice, γ, 22:38354
  radioprotective effects of, on mice, γ, 22:28611
  radioprotective effects of, on sheep, x, 24:36769
1-PROPANETHIOL
  radiolysis of, yields of free radicals from γ, 23:31369
  ethylene—1-propanethiol, radiolysis of, mechanism and yields in gamma, 21:14237(R) (JLI-2901-75)
1-PROPANETHIOL, 2-AMINO-
  radioprotective effects of, on Escherichia coli, function and structure studies on γ, 25:35160
1-PROPANETHIOL, 3-AMINO-
  hydrochloride, radiolysis of aqueous solutions of,, 22:6357
2-PROPANETHIOL, 1-AMINO-
  β-mercapto-, radioprotective effects of, on deoxyribonucleoprotein, 22:47566
  β-mercapto-, radioprotective effects of, on formation of folinic acid in pigeon liver, γ, 22:47627
  β-mercapto-, radioprotective effects of, on molecular structure of solutions of deoxyribonucleoprotein, 22:47565
  effects on free amino acids of liver and spleen of rats following γ irradiation, 21:10744
  effects on metabolism in liver of pigeons, 21:36651
  effects on molecular structure of DNA and DNP, 23:29581
  effects on oxidative phosphorylation in rat liver mitochondria, 22:25893
  effects on purine synthesis in liver homogenates from γ-irradiated and unirradiated pigeons, 21:4776
  effects on respiration of mitochondria from brain and liver of irradiated and unirradiated rats, 21:22636
  effects on synthesis of purines in liver of irradiated pigeons, 21:10754
  hydrochloride, crystal structure of, 25:8268
  preparation of cyclopropyl analogs of, for evaluation as radioprotective agent, 25:23558
  radioprotective effects of, on cats, dogs, mice, rabbits, and rats, ionizing, 23:50638
  radioprotective effects of, on DNP, ionizing, 22:51798
  radioprotective effects of, on mice, effects of oxygen on, 22:25889
  radioprotective effects on respiration in mitochondria from brain and liver of rabbits, γ, 21:34705
  radioprotective properties of, 21:22498
  use for radiation protection of rats, 21:10744
1-PROPANETHIOL, 2-METHYL-
  deuterium exchange between carboxyl group of isobutyric acid and mercapto group of, kinetics of, 23:7533
  deuterium exchange between methanol and, in carbon tetrachloride, 22:33305
  deuterium exchange between methanol and, in gaseous phase, 22:33305
1,2,3-PROPANETRICARBOXYLIC ACID
  production by γ radiolysis of succinic acid, 21:36052
  reactions of, with uranyl ions, complex formation in, 21:14194
1,2,3-Propanetriol
  see Glycerol
PROPANIDID
  sensitivity of x-irradiated mice, combined effects on open skin wounds on, 23:50867

1-PROPANOL
  analysis for hydrogen by thermal neutron scattering, 21:38905
  beta scattering by aqueous solutions of, effects of atomic number and bonds on, 22:124
  compounds with copper chloride, crystal structure of $Cu_5Cl_{10}.2(C_3H_7OH)$, 21:30396 (IS-T-168)
  effects as solvent on radioinduced grafting of monomers on cellulose, 23:4660
  effects as solvent on separation of metals by thin-layer chromatography using slightly basic ion exchanger, 24:16661
  effects on crystallization and stability of disodium salt of adenosine triphosphate, 22:4070 (UR-49-866)
  effects on determination of trace amounts of impurities in rare earth compounds by direct-reading emission spectrometry using rotating electrode, 24:41195
  effects on electric conductivity of uranyl chlorides, effects of ligands on association-dissociation equilibrium in, 23:35062
  effects on γ radiolysis of concentrated solutions of sodium nitrate, 24:4320
  effects on iodine-131 uptake by thyroid gland in man, 23:47932
  effects on ion exchange behavior of metals in hydrobromic acid, 23:40834
  effects on ion exchange of metals in hydrobromic acid, 23:19855
  effects on mechanism of formation of phosphorus-32-labeled alkyl phosphates in neutron irradiated carbon tetrachloride, 22:30596
  effects on membrane permeability and rubidium-86 efflux in guinea pigs, 23:24562
  effects on radiolysis of chlorobenzene and its derivatives, 25:15688
  effects on retention of recoils from bromine-80m isomeric transition in carbon tetrabromide, 25:32032
  effects on yields in gamma radioinduced polymerization of ethylene at 30°C, 22:45130
  effects on yields in gamma-radioinduced polymerization of ethylene, 22:2105
  effects on yields in radiolysis of colloidal sulfur, 23:274
  neutron scattering at -120 to +50°C, cold, (E/T), 21:12013(R) (EANDC(OR)-44(L))
  neutron scattering by, slow, (E/T), 21:2029
  radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
  radiation effects on paramagnetic centers in, at 77°K, ESR studies of γ, 21:8371
  radiation effects on polarity in, gamma, 21:10380
  radiation effects on reactions of, with liquid nitrogen or oxygen, β and γ, 21:45150(T) (ORNL-tr-1774)
  radiation effects on, reactions of recoil carbon-11 from bremsstrahlung, 22:25435 (IS-T-216)
  radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  radioinduced oxidation of, mechanism for γ, 22:18832
  radioinduced reactions with hexafluoropropene, NMR spectral studies on gamma, 21:23942
  radiolysis at 77°K, ESR spectra of products from γ, 21:23971
  radiolysis of aqueous ferricyanide solutions of, rate constants for oxidation of radicals produced by electron pulse, 24:13958
  radiolysis of aqueous perchloric acid solutions of, rate constants for reactions of hydrogen atoms produced by γ, 25:18459
  radiolysis of frozen aqueous solutions of, ESR spectral studies on hydrogen yields from γ, 25:162
  radiolysis of frozen aqueous solutions of, role of LET in yields from α, β, and γ, 25:26311
  radiolysis of gaseous, effects of pressure and temperature on γ, 22:2158
  radiolysis of glasses of, formation of trapped electrons from γ, 21:36009
  radiolysis of glasses of, spectral studies on production of trapped electrons in γ, 22:51008
  radiolysis of glassy, at 77°K, spectral and gas chromotographic studies on γ, 25:6377
  radiolysis of glassy, effects of optical and thermal bleaching on hydrogen yields from γ, 24:29345
  radiolysis of glassy, spectrophotometric studies on electrons trapped by γ, 24:31416
  radiolysis of liquid, at low temperature, studies on electron solvation process in electron pulse, 25:34649
  radiolysis of liquid, effects of temperature on reactions of electrons in, 23:49836
  radiolysis of liquid, solid, and vaporous, review on, 25:178
  radiolysis of viscous, transient solvated electrons produced in electron pulse, 23:35138(R) (RRL-2310-276)
  radiolysis of, effects of dose on yields in, 21:38972
  radiolysis of, electric conductance changes in electron pulse, 25:31994
  radiolysis of, mass spectral method of calculating yields from γ, 23:40703
  radiolysis of, mass spectral studies on, 23:40772
  radiolysis of, photolysis of free radicals from γ, 21:8379
  radiolysis of, primary ionization processes in γ, 22:27778
  radiolysis of, radical and molecular yields in, 21:10383
  radiolysis of, reactions of alcohol radicals with hydrogen sulfide in pulse, 21:32202
  reactions of recoil carbon-11 in bremsstrahlung-irradiated, 23:2326
  reactions of recoil nitrogen-13 with, 21:34311(R) (NYO-1396-103)
  reactions with atomic deuterium, kinetics of, 23:24167
  reactions with chlorine-38 recoil atoms, yields in, 22:30611
  reactions with hydrogen, rate constant for, 22:2085
  refractive properties of, piezo-optic coefficients of, 22:23003 (IA-1128, pp 97-146)
  sorption by Type 316 stainless steel, ellipsometer measurements on, 22:45029 (UCRL-18043, pp 7-105)
  spectra of normal and deuterated, assignments of vibrational, 22:35801
  vapor pressure of, effects of deuterium on, 22:42665
  vapor pressure of, effects of deuterium on, 22:10249
  yields in radiolysis of aqueous ethylene solutions, 21:40899
  3-methylpentane—1-propanol, radiation effects on glasses of, at 77°K, properties of trapped electrons produced by γ, 24:27153
  cyclohexane—1-propanol, analysis of tritiated, by interrupted-elution combustion radio gas chromatography, 23:13649
  ethanol—1-propanol, proton polarization in frozen mixtures of, using solid effect, 21:42517
  ethylene—1-propanol, radiolysis of, mechanism of gamma, 21:14237(R) (JLI-2901-75)
  H_2O—1-propanol, radiolysis at pH 1.3 to 13, kinetics of hydrogen peroxide production from γ, 23:40752
  H_2O—propanol, radiolysis at 77°K, yields of trapped hydrogen atoms produced by γ, 24:44053
  HCl—1-propanol, effects of, on ion exchange of elements on Dowex 50 x 8, 21:14302
  HCl—1-propanol, effects on chromatographic behavior of various inorganic ions, 22:16673
  HCl—1-propanol, use for development of thin-layer aluminum oxide chromatogram for some less-common elements, 23:26153
  HF—1-propanol, effects on ion exchange of elements on Dowex 50 x 8, 22:10341
  methylcyclohexane—1-propanol, radiation effects on glasses of, at 77°K, properties of trapped electrons produced by γ, 24:27153
2-PROPANOL
  bremsstrahlung reactions with, yields of carbon-11-recoil-labeled products from, 24:38898 (IS-T-366)
  complexes with thorium and uranium tetrachlorides, formation of crystalline, thermodynamics of, 25:4077
  compounds with uranium tetrachloride, heats of formation of, 23:122
  decomposition in radioactive yttrium-90- and -91-labeled oxides, 22:2106
  decomposition of, neutron radiation effects on catalytic effects of neodymium oxide on, 22:40116
  dehydration of deuterated, effects of α-boron on, 21:40862
  effects as solvent on separation of metals by thin-layer chromatography using slightly basic ion exchanger, 24:16661
  effects of deuterated and undeuterated, on luminescence decay time of rare earth ions, 25:83
  effects of, on gamma radioinduced graft polymerization of lignin with styrene, 21:3106
  effects of, on yields in radiolysis of alkane—nitrous oxide mixtures, 21:14240(R) (RRL-2310-194)
  effects on aminoacylation of transfer-RNA, 24:13736 (ORNL-4466, pp 41-62)
  effects on crystallization and stability of disodium salt of adenosine triphosphate, 22:4070 (UR-49-866)
  effects on determination of trace amounts of impurities in rare earth compounds by direct-reading emission spectrometry using rotating electrode, 24:41195
  effects on electron capture in γ-irradiated ice, 24:38957
  effects on gamma radiolysis of ethylene, 24:4324
  effects on gamma radiolysis of sodium bicarbonate at various pressures, 21:36019
  effects on gamma-induced dehalogenation of halogenoaliphatic compounds, 21:25906
  effects on γ-induced isomerization of cis-stilbene in cyclohexane, 24:7458
  effects on γ-induced polymerization and telomerization of ethylene, 22:4166
  effects on γ-radiolysis of potassium nitrosodisulfonate, 22:18817
  effects on hydrogen ion yield from γ and electron pulse radiolysis of p-bromophenol, 23:35242
  effects on hydrogen yields from γ-irradiation of sulfuric acid glass, 22:37791
  effects on hydrolysis of acetate and nitrate of didodecylamine, 22:27845 (CEA-N-816, pp 150-276)
  effects on ion exchange behavior of metals in hydrobromic acid, 23:40834
  effects on ion exchange of metals in hydrobromic acid, 23:19855
  effects on isomerization of stilbene in γ radiolysis of aminobenzophenones and benzophenone, 24:9345(R) (NYO-2499-31)
  effects on mechanism and yields in γ radiolysis of aqueous hydrocyanic acid solutions, 23:15899
  effects on quenching of fluorescence of uranyl perchlorate in aqueous solutions, 23:49773
  effects on radiolysis of ammonia, 25:2283
  effects on thermal reactions of radiolytic hydrogen in aqueous sulfuric acid glasses at low temperature, 23:24239
  effects on yields from gaseous γ-radiolysis of alkane—nitrous oxide mixture, 22:10285
  effects on yields in gamma radioinduced polymerization of ethylene at 30°C, 22:45130
  effects on yields in gamma-radioinduced polymerization of ethylene, 22:2105
  effects on yields in uv photolysis of aqueous bisulfate and sulfate ions, 21:40898
  effects on yields of methane in γ radiolysis of methyl bromide and iodide in alkaline solutions, 22:33447
  efficiency of blending solutions of, containing dioxane and toluene, for scintillation counting of aqueous tritium, 22:16433
  heat transfer to, effect of electric fields on, 21:32311 (NYO-2404-76)
  hydrogen bonding in, deuterium isotope effects on anharmonicity and frequency constants for, 23:21699
  ionization and ion chemistry of, 23:31246(R) (CALT-757-3)
  oxidation by Fenton's reagent, effects of deuterium on, 25:54576
  photochemical oxidation by uranyl perchlorate in aqueous acid medium, kinetics of, 22:10234
  photochemical reduction reactions with 4-aminobenzophenone, benzophenone, and p-benzoylbenzoic acid, kinetics of, 23:9422(R) (NYO-2499-26)
  photoinduced reactions with caffeine, products from, 23:19752
  photolysis of, effects of deuterium on mechanism of production of yields from, 23:19708
  photooxidation by uranyl ions in aqueous solutions, mechanism of, 25:2158
  photoproduction of, in acetone—benzhydrol system, effects of 2-mesitylenethiol on, 21:10376(R) (NYO-2499-20)
  positron annihilation in, (E), 22:26207
  positron annihilation in, correlation between intensity and lifetime of slow component in, 21:43774
  radiation effects on electron capture in aqueous solutions of, at 77°K, γ, 22:4209
  radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
  radiation effects on oxidation of, by hydrogen peroxide, effects of deuterium on, 25:31962
  radiation effects on subsequent catalytic dehydration of, on aluminum oxide, γ, 25:34629
  radiation effects on, reactions of recoil carbon-11 from bremsstrahlung, 22:25435 (IS-T-216)
  radioinduced addition of, to maleic acid, γ, 24:13916
  radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339
  radioinduced luminescence in hexene solutions at 77°K, γ, 22:25406
  radioinduced oxidation of aqueous perchloric acid solutions of, by trivalent thallium, mechanism of γ, 24:50416
  radioinduced oxidation of, by tert-butyl peroxide, effects of dose rate and solutes on γ, 23:2355
  radioinduced reaction with ethylene to produce tertiary alcohols, 22:51035(P)
  radioinduced reactions with aqueous hydrogen peroxide, effects of trivalent titanium on kinetics of free radical chain reactions in γ, 25:13032
  radioinduced reactions with caffeine, products from γ, 23:19752
  radioinduced reactions with hexafluoropropene, NMR spectral studies on gamma, 21:23942
  radioinduced telomerization of chlorotrifluoroethylene in, γ, 24:13914
  radioinduced tritium exchange in aqueous solutions of, β, 25:6361
  radiolysis at 77°K, γ, 21:23972
  radiolysis at 77°K, kinetics of radical reactions in γ, 23:40690
  radiolysis at 77°K, yields from γ, 25:13056
  radiolysis in sulfuric acid at 77°K, ESR studies of radicals from γ, 24:4312
  radiolysis in water, effects of deuterium and thiols on yields from γ, 24:9345(R) (NYO-2499-31)
  radiolysis of aqueous ferricyanide solutions of, rate constants for oxidation of radicals produced by electron pulse, 24:13958
  radiolysis of aqueous nitrous oxide-saturated solutions of, γ, 21:5941
  radiolysis of aqueous perchloric acid solutions of deuterated and normal, rate constants for reactions of hydrogen atoms produced by γ, 25:18459
  radiolysis of aqueous solutions of, absorption spectra of free radicals produced from electron pulse, 24:5691
  radiolysis of aqueous solutions of, effects of acetone and thiols on yields from γ, 23:9422(R) (NYO-2499-26)
  radiolysis of aqueous solutions of, effects of cysteine, mercaptans, or 2-mercaptoethanol on yields from γ, 25:26291
  radiolysis of aqueous solutions of, effects of pH on reactivity of hydroxyl radical in γ, 23:9435
  radiolysis of aqueous solutions of, ESR studies on transient radicals in electron, 25:31998
  radiolysis of aqueous solutions of, polarographic study of short-lived radicals from electron pulse, 25:51528
  radiolysis of benzophenone in aqueous solutions of, mechanism of gamma, 21:5834 (IA-1082, pp 77-202)
  radiolysis of frozen aqueous solutions of, effects of acids on hydrogen abstraction by primary species from γ, 25:2293
  radiolysis of frozen aqueous solutions of, effects of sulfuric acid on ESR spectra from γ, 24:20797
  radiolysis of frozen aqueous solutions of, ESR spectral studies on hydrogen yields from γ, 25:162
  radiolysis of frozen aqueous solutions of, role of LET in yields from α, β, and γ, 25:26311
  radiolysis of gaseous, yields of carbon monoxide, hydrogen, and methane from γ, 23:47538
  radiolysis of glasses of, formation of trapped electrons from γ, 21:36009
  radiolysis of glassy, at 77°K, ESR studies on yields from γ and uv, 23:26274
  radiolysis of glassy, effects of optical and thermal bleaching on hydrogen yields from γ, 24:29345
  radiolysis of liquid deaerated, yields from γ, 23:40678 (CEA-R-3800)
  radiolysis of liquid, at low temperature, studies on electron solvation process in electron pulse, 25:34649
  radiolysis of liquid, solid, and vaporous, review on, 25:178
  radiolysis of vapors of, at 124 to 400°C, yields from γ, 25:13046
  radiolysis of vapors of, effects of ethylene or nitric oxide on yield of molecular hydrogen from, 23:37979
  radiolysis of vapors of, production of isopropyl ether by cationic chain in γ, 24:36334
  radiolysis of, effects of acid, temperature, and nitrous oxide on hydrogen yields from γ, 22:18819
  radiolysis of, effects of alkoxy radicals on electron pulse, 25:18448(R) (CEA-N-1369)
  radiolysis of, effects of benzophenone on yields from γ, 22:2153

- radiolysis of, effects of carbon tetrachloride and 2-methyl-2-propanol on yields from γ, 24:41330
- radiolysis of, effects of deuterium on hydrogen abstraction reaction in γ, 23:19768
- radiolysis of, effects of hydrogen sulfide and nitrous oxide on, 22:2156
- radiolysis of, effects of nitrous oxide on yields of hydrogen from, 21:1378 (ORNL-3994, pp 40-52)
- radiolysis of, electric conductance changes in electron pulse, 25:31994
- radiolysis of, photolysis of free radicals from γ, 21:8379
- radiolysis of, reactions of alcohol radicals with hydrogen sulfide in pulse, 21:32202
- radiolysis of, yields from γ, 24:27134
- radiolysis of, yields of ions and excited states from electron pulse, 25:160
- radiolysis of, yields of methane from γ, 25:4123
- radioprotective effects of, on chymotrypsin, γ and x, 23:29382
- reactions of glassy or liquid, with hydrogen in sulfuric acid, effects of deuterium on, 24:4266
- reactions of recoil carbon-11 in bremsstrahlung-irradiated, 23:2326
- reactions of, with solvated electrons, 21:5834 (IA-1082, pp 77-202)
- reactions with aromatic anion radicals, pulse-radiolysis studies of, 21:23924
- reactions with chlorine atoms formed by γ radiolysis of hydrochloric acid, 23:35197
- reactions with chlorine-38 recoil atoms, yields in, 22:30611
- reactions with hydrogen, rate constant for, 22:2085
- reactions with tertiary amines, effects of deuterium on hydrogen bridge formation in, 23:24190
- response of, in ionization chambers, relative weight and molar, 23:4808(T) (NSJ-tr-128)
- titrations in, characteristics of thermometric, 21:15878(R) (MIT-905-81)
- use with hydrochloric acid—hydrofluoric acid mixture for chromatographic separation of ions, 22:30570
- vapor pressure of, effects of deuterium on, 22:42665
- vapor pressure of, effects of deuterium on, 22:10249
- yields from radiolysis of aqueous acetone mixtures, 23:4696
- yields from radiolysis of aqueous diisopropylamine solutions, effects of 2-mercaptoethanol on, 25:10627(R) (NYO-2499-37)
- yields in γ radiolysis of frozen acetone, 22:33425
  - 2-propanol—tetramethyl-p-phenylenediamine, radiolysis of, formation of cation and triplet state in electron pulse, 23:19808
  - 3-methylpentane—2-propanol, radiation effects on glassy, electron spectral studies on, 24:240
  - acetene—2-propanol, radiolysis of, exchange of carbon-14 in γ, 24:9412
  - acetic acid—acetone—HCl—H_2O—2-propanol, effects on separation of metals by ascending thin-layer chromatography method, 24:22758
  - acetic acid—acetone—HCl—H_2O—2-propanol, effects on separation of metals by thin-layer chromatography on precoated cellulose and silica gel sheets, 24:22763
  - acetic acid—HCl—H_2O—2-propanol, effects on separation of metals by thin-layer chromatography on precoated cellulose and silica gel sheets, 24:22763
  - acetone—1,2-dithiolane-3-valeric acid—2-propanol, radiolysis of aqueous solutions of, electron transfer in electron pulse, 25:6370
  - acetone—HCl—H_2O—2-propanol, effects on separation of metals by thin-layer chromatography on precoated cellulose and silica gel sheets, 24:22763
  - benzophenone—2-propanol, radiolysis at 77°K, γ, 21:23972
  - bromobenzene—2-propanol, radiolysis of, γ, 22:27785
  - chlorotrifluoroethylene—2-propanol, radioinduced telomerization of, kinetics and mechanism for γ, 24:5681 (UJV-2237-Ch)
  - $CuSO_4$—2-propanol, effects on yield of primary hydrogen atoms from gamma radiolysis of water, 21:23955
  - ethylene—2-propanol, radiolysis of, free radical mechanism for gamma, 21:23908 (BNL-50042)
  - ethylene—2-propanol, radiolysis of, mechanism and yields in gamma, 21:14237(R) (JLI-2901-75)
  - H_2O_2—2-propanol, radiolysis of aqueous solutions of, reactions of radicals from γ, 25:26290(R) (NYO-3753-19)
  - H_2O—2-propanol, radiolysis of gaseous, yields of reducing species from γ, 23:47538
  - H_2O—2-propanol, radiolysis of, effects of nitrate ions on yields of solvated electrons from, 24:9366
  - H_2SO_4—2-propanol, effects on separation of protactinium from tantalum by cation exchange, solvent, 24:44086
  - HCl—2-propanol, corrosive effects on aluminum—titanium—vanadium alloys, 25:35287
  - HCl—2-propanol, effects of, on ion exchange of elements on Dowex 50 x 8, 21:14302
  - HCl—2-propanol, use for development of thin-layer aluminum oxide chromatograms for some less-common elements, 23:26153
  - HCl—propanol, sorptive properties for protactinium, 23:43291(R) (MLM-1603)
  - HF—2-propanol, effects on ion exchange of elements on Dowex 50 x 8, 22:10341
  - KH_2PO_4—2-propanol, radiolysis of, role of excited water in yields of radicals from γ, 24:46274
  - KNO_3—2-propanol, effects on yields of primary hydrogen atoms from gamma radiolysis of water, 21:23955
  - KOH—N_2O—2-propanol, radiolysis of, kinetics of chain reactions in gamma, 21:28009
  - maleic acid—2-propanol, radiation effects on, yields of terebic acid and diaterebic acid from γ, 24:38905
  - N_2O—2-propanol, radiolysis of aqueous solutions of, effects of acidity on yields of reducing radical from γ, 23:17499
  - N_2O—2-propanol, radiolysis of deuterated and normal aqueous solutions of, effects of acidity and solute concentration on yields in x, 21:8337
  - N_2O—2-propanol, radiolysis of, yields of hydrogen and nitrogen from γ, 23:49832
  - Na_2O_2—2-propanol, radiation effects on, ESR study on O_2^- radical from γ, 23:17491
  - NaCl—2-propanol, corrosive effects on aluminum—titanium—vanadium alloy, 25:29773
  - $NaNO_3$—2-propanol—sodium formate, radiolysis of deaerated aqueous solutions of, at 23°C, effects of pressure on yields of hydrogen from γ, 25:29157
  - $NaNO_3$—NaOH—2-propanol, radiolysis of deaerated aqueous solutions of, at 23°C, effect of pressure on yields of hydrogen from γ, 25:29157
  - O—2-propanol, radiolysis of sulfuric acid solutions of, hydrogen atom reactions in γ, 22:47199
- 1-PROPANOL, 2-AMINO-
  - effects on separation of carbon-13 and oxygen-18 by chemical exchange of carbon dioxide with amine carbonate in methanol solutions, 22:133 (CU-755-4, Paper IIB)
- 1-PROPANOL, 3-AMINO-2-BROMO-
  - reactions with phosphorothioate ions, properties and structure of radioprotective compounds formed by, 21:10348
- 2-PROPANOL, 1-AMINO-3-CHLORO-
  - reactions with phosphorothioate ions, properties and structure of radioprotective compounds formed by, 21:10348
- 2-PROPANOL, 1-(BROMOMERCURI)-
  - use of mercury-197-labeled, for spleen function tests, 24:12164
- 1-PROPANOL, 2,3-DIMERCAPTO-
  - effects on cobalt-60 uptake by liver cells, 21:20079
  - effects on excretion of mercury-203 in rats, 21:16294
  - effects on excretion of mercury-203-labeled chlormerodrin by kidneys, 23:50704
  - effects on excretion of mercury-203-labeled chlormerodrin by mice, 22:51370
  - effects on γ-radiosensitivity of sodium content of membranes of human erythrocytes, 23:2857
  - effects on mercury-203 distribution and retention in rats, 21:45498 (NP-16874)
  - effects on mercury-203 excretion by rats, 21:28388
  - effects on mobilization of mercury-203 in rat kidneys, 21:22291
  - effects on radiation dose from mercury-203-labeled merphyrin to kidneys of mice, 25:13341
  - effects on removal of mercury-197 from human kidneys, 21:26351
  - effects on zinc-65 uptake by liver cells, 21:20079
  - radioprotective effects of, on Tetrahymena pyriformis, γ, 24:757
  - radioprotective effects on mice, x, 21:22634
- 1-PROPANOL, 2,2-DIMETHYL-
  - radiolysis of aqueous solutions of, absorption spectra of free radicals produced from electron pulse, 24:5691
- PROPANOL, 3-(DIOCTYLAMINO)-
  - solvent properties for niobium and tantalum, 22:18903
  - solvent properties for niobium and tantalum in hydrofluoric acid solutions, 22:51080
  - solvent properties for niobium and tantalum in oxalic acid solutions in presence of mineral acids, 23:21790
- 2-Propanol, 1-(Isopropylamino)-3-(1-naphthyloxy)-
  - see Propranolol
- 1-PROPANOL, 2-METHYL-
  - bremsstrahlung reactions with, yields of carbon-11-recoil-labeled products from, 24:38898 (IS-T-366)
  - deuterium exchange between, and fluorine in ether solutions, 21:19594
  - effects as solvent on separation of metals by thin-layer chromatography using slightly basic ion exchanger, 24:16661
  - effects on gamma radioinduced polymerization of 2-furanacrolein, 22:18821
  - effects on γ-induced oxidation and reduction of iron in aqueous solutions, 24:29350
  - effects on yields in gamma radioinduced polymerization of ethylene at 30°C, 22:45130
  - effects on yields in gamma-radioinduced polymerization of ethylene, 22:2105
  - efficiency of blending solutions of, containing dioxane and toluene, for scintillation counting of aqueous tritium, 22:16433
  - photooxidation by uranyl ions in aqueous solutions, mechanism of, 25:2158
  - radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
  - radiation effects on paramagnetic centers in, at 77°K, ESR studies of γ, 21:8371
  - radiolysis of aqueous ferricyanide solutions of, rate constants for oxidation of radicals produced by electron pulse, 24:13958
  - radiolysis of aqueous perchloric acid solutions of, rate constants for reactions of hydrogen atoms produced by γ, 25:18459
  - radiolysis of aqueous solutions of, absorption spectra of free radicals produced from electron pulse, 24:5691
  - radiolysis of, photolysis of free radicals from γ, 21:8379
  - reactions with deuterium ions, high-pressure mass-spectrometric study of, 21:35965
  - reactions with tri-n-octylaluminum, effects of tritium on, 21:30411
  - use in preparation of thorium oxide microspheres, 21:32965
    - 2-methyl-1-propanol—4,4,4-trifluoro-(2-thienyl)-1,3-butanedione, solvent properties for americium(III) and (V), 24:20783
- 2-PROPANOL, 2-METHYL-
  - bremsstrahlung reactions with, yields of carbon-11-recoil-labeled products from, 24:38898 (IS-T-366)
  - deuterium exchange between 4-biphenylyl-α-methoxytoluene and, kinetics of, 22:21063
  - deuterium exchange between 4-biphenylylmethyl p-tolyl ether and deuterated, 22:35816
  - deuterium exchange between, and 1,3-diphenylbutenes, 21:8287
  - deuterium exchange between, and N,N,9-trimethylfluorene-2-carboxamide, 21:40851
  - deuterium exchange between, and p-tolyl methyl sulfoxide, 21:3018
  - deuterium exchange reactions between N,N,9-trimethylfluorene-2-carboxamide and, in potassium phenoxide, kinetics of, 21:15903
  - effects of solutions of, on debromination of deuterated and normal 9-bromo-9,9'-bifluorene, 21:1363
  - effects on determination of trace amounts of impurities in rare earth compounds by direct-reading emission spectrometry using rotating electrode, 24:41195
  - effects on gamma radiolysis of ethylene, 24:4324
  - effects on γ-radioinduced polymerization of ethylene by wet wall process, 24:31387
  - effects on radioinduced polymerization of ethylene, 23:2339
  - effects on reactions of 2,4-pentanedione or 1-phenyl-1,3-butanedione with uranium pentaethoxide, 21:17620
  - effects on yields from γ radiolysis of 2-propanol, 24:41330
  - effects on yields from γ radiolysis of deaerated aqueous polyethylene oxide, 25:48548
  - effects on yields in gamma radioinduced polymerization of ethylene at 30°C, 22:45130
  - effects on yields in gamma-radioinduced polymerization of ethylene, 22:2105
  - photooxidation by uranyl ions in aqueous solutions, mechanism of, 25:2158
  - radiation effects on gaseous, ESR studies of free radicals from 1-MeV helium ion, 23:47558
  - radiation effects on glasses of, effects of matrix polarity on optical and ESR spectra of trapped electrons from γ, 23:7577
  - radiation effects on paramagnetic centers in, at 77°K, ESR studies of γ, 21:8371
  - radioinduced hydrogen isotope exchange between water and, mechanism of, 24:16587
  - radioinduced oxidation of aqueous perchloric acid solutions of, by trivalent thallium, mechanism of γ, 24:50416
  - radioinduced tritium exchange in aqueous solutions of, γ, 25:6363
  - radioinduced tritium exchange in aqueous solutions of, β, 25:6361
  - radioinduced tritium exchange in, effects of solutes on β, 25:6362
  - radiolysis at 30°C, yields from, 25:34659
  - radiolysis of aqueous solutions of, absorption spectra of free radicals produced from electron pulse, 24:5691
  - radiolysis of aqueous solutions of, polarographic study of short-lived radicals from electron pulse, 25:51528
  - radiolysis of frozen aqueous solutions of, effects of sulfuric acid on ESR spectra from γ, 24:20797
  - radiolysis of, reactions of alcohol radicals with hydrogen sulfide in pulse, 21:32202
  - reactions with aromatic anions in tetrahydrofuran, kinetics of, 23:2259(R) (COO-958-13)
  - reactions with deuterium ions, high-pressure, mass-spectrometric study of, 21:35965
  - vapor pressure of, effects of deuterium on, 22:42665
  - vapor pressure of, effects of deuterium on, 22:10249
  - yields from γ radiolysis of liquid tert-butyl hydroperoxide, 24:7467
  - yields from radiolysis of tert-butyl hydroperoxide, 21:23973
  - yields in gamma radiolysis of 2-methylpropene—water system, 21:14237(R) (JLI-2901-75)
    - 1,2-dithiolane-3-valeric acid—2-methyl-2-propanol—thymine, radiolysis of aqueous solutions of, electron transfer in electron pulse, 25:6370
    - 2-methyl-2-propanol—methyl sulfoxide, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
    - 2-methyl-2-propanol—methyl sulfoxide, effects on oxidation of triphenyl methane, 21:5892
    - 2-methyl-2-propanol—methyl sulfoxide—potassium tert-butoxide, proton transfer reactions in, deuterium kinetic isotope effects in, 22:6301
    - 2-methyl-2-propanol—potassium tert-butoxide, deuterium exchange between, and allylbenzene or propenylbenzene, 21:8288
    - 2-methyl-2-propanol—potassium-tert-butoxide, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
    - CO_2—2-methyl-2-propanol, effects on radioinduced polymerization of ethylene, 23:24240(P)
    - H_2O—2-methyl-2-propanol, effects on radioinduced polymerization of ethylene, 23:24240(P)
    - HCl—2-methyl-2-propanol, effects on chromatographic behavior of inorganic ions, 22:16674
    - 2-methyl-2-propanol—tetrahydrofuran, deuterium vinyl exchange of stilbene and nitrostilbene with, 21:8286
- 1-PROPANOL, 2-METHYL-2-NITRO-
  - radiolysis of glassy alkaline solutions of, at 77°K, ESR studies on scavenging by nitromethane of paramagnetic species produced by γ, 25:34643
  - radiolysis of solid, in ethanol, ESR spectral studies on radical formation in γ, 21:32206
- 1-PROPANOL, 3-PHENYL-
  - chemical shifts in, effects of deuterium on, 23:28803
  - radiolysis of, EPR spectra of radicals from, 22:18848
- 2-PROPANOL, 1,1,1-TRICHLORO-2-METHYL-
  - radiation effects on aqueous solutions of, effects of packaging on cobalt-60 γ, 22:40992
  - radiation effects on stability and viscosity of aqueous solutions of, effects of glass and polyethylene packaging on γ, 22:40599
  - radiation effects on, evaluation as method of sterilization, γ, 22:27823
  - radiolysis of, formation and conversion of primary radicals in x, 24:4327
  - radioprotective effects in the crustacean, Branchiura sowerbyi, 21:34732
  - radioprotective effects on larvae of Rhacophorus arboreus, x, 21:41464

1-PROPANOL, TRITHIODI-
  effects on x-radiation effects on peripheral blood of rats, 25:19131
2-Propanone
  see Acetone
2-PROPANONE, 1-CYCLOPROPYL-
  deuterium exchange in, acid-catalyzed, 22:27708
2-PROPANONE, 1,3-DIHYDROXY-
  radiolysis of solid, reactions on dissolution in water of free radicals produced by, 24:44037
2-PROPANONE, HEXAFLUORO-
  decomposition by rare gas metastable atom activation, 25:51511(R) (ORO-3106-41)
2-PROPANONE, 1,1,1,3,3,3-HEXAFLUORO-
  photolysis of, effects of deuterium on reaction of CF_3 radicals from, 23:7519
1-PROPANONE, 1-(1,2,3,3,4,4-HEXAFLUOROCYCLOBUTYL)-
  radioinduced production of, by reactions between aldehyde and hexafluorocyclobutene, γ, 23:9473(P)
2-PROPANONE, HYDROXY-
  yields from radiolysis of aqueous acetone mixtures, 23:4696
2-PROPANONE, METHOXY-
  deuterium exchange reactions between water-d_1 and, proton NMR studies on acid- and base-catalyzed, 21:14212
  deuteron exchange from α-position to carbonyl group in, effects of catalysts on kinetics of, 21:25841
1-PROPANONE, 2-METHYL-1,2-DI-3-PYRIDYL-
  effects on pituitary reserve function in patients with prostatic carcinoma, 21:24645
  effects on steroid excretion in urine of beagles following inhalation or injection of strontium-90, combined effects of sex on, 24:14425
2-PROPANONE, PHENYL-
  reactions with phosphoric acid catalyst, cyclodehydration in, 21:14184(R) (ORO-3234-4)
PROPELLANTS
  see also Jet Engine Fuels
  analysis for nitrogen, activation, 21:42899
  analysis of composite, for aluminum and chlorine by neutron activation and γ spectrometry, 23:43277
  analysis of solid rocket, for potassium and sodium by neutron activation and gamma spectroscopy, 25:57384
  analysis of solid, for sodium and potassium by neutron activation and γ spectrometry, 24:156
  atmospheric pollution from rocket, at Vandenberg Air Force Base, 22:12159 (BNWL-572(Vol.1))
  combustion of solid, burn testing under rocket abort conditions, 25:34792 (SC-DR-710084)
  containment of gaseous rocket, in directed-wall-jet vortex tubes with radial outflow, 21:35653 (NP-16785)
  content of cryogenic, in closed tanks, design of neutron absorption fuel gage for measuring, 24:504(P)
  corrosive effects of combustion products of, on rocket nozzles, 25:16414
  degradation studies of, use of radioisotopes as tracers for, 21:32333
  explosion of liquid, in Project Pyro, velocity of fragments from, 23:47362 (SC-DR-69-329)
  flame propagation in gap in solid, 22:10163(T) (LA-tr-67-88)
  gage for space vehicle, design and testing of krypton-85 zero-gravity, 21:45443
  gage for space vehicle, optimum source-detector configuration for zero-g radiometric cryogenic, 22:43138
  gaging system for, for spacecraft, 21:12594
  heating in space vehicles, point-kernel radiation shielding program for evaluating, 21:29321 (NASA-TM-X-1397)
  heating of liquid, effect of baffles on, 21:10534 (N-66-33710)
  level of liquid aircraft, radiometric gage for measurement of, 24:2508(P)
  mass aboard orbiting space vehicle, gamma radiometric system for measuring, 22:38131
  mass of gaseous spacecraft, development of radiometric gage for measuring, 22:43132 (STL-539-0001)
  measurement of quantity of, in space vehicles, development of radiometric gage for, 21:24172(R) (TID-23666)
  measurement of quantity of, in space vehicles, radiometric gage for, 22:30884
  protection against chemical missile-, medical standards for, 22:40719
  radiation effects on burning rate of ammonium perchlorate-containing, γ, 23:11584
  radiation effects on decomposition of, gamma, 25:49593
  radiation effects testing of, design and fabrication of aluminum capsules for, 23:24359
  radiation heating of liquid hydrogen in nuclear rockets, calculations using Monte Carlo method, 21:20999 (N-66-27941)
  radioinduced encapsulation of solid, in polymerizable monomers, γ, 23:28925(P)
  testing of solid, equipment and methods for burn, 24:7592(R) (SC-PR-69-672)
  use of solid, in MHD generators, (E), 22:52566
Propenal
  see Acrolein
PROPENE
  alpha particle range in, effects of phase on, 22:45508(R) (PG-Report-826)
  alpha-particle stopping cross sections in gaseous, at 0.3 to 2 MeV, 25:36255
  alpha-particle stopping cross sections in gaseous, test of Bragg's rule for, 25:30642
  alpha-particle stopping power of gaseous, at 300 keV to 2 MeV, (E), 25:17265
  conversion of, radiation effects on catalytic activity of synthetic zeolites during, 24:11601
  determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  deuterium exchange between heavy water and, in presence of molybdenum oxide—tin oxide catalyst, 23:26258
  deuterium exchange between heavy water and, microwave study of copper- or rhodium-catalyzed, 23:26233
  deuterium exchange between, and heavy water, effects of α-boron on, 21:40862
  deuterium exchange reactions in, catalyzed by Group eight metals, 25:8258
  effects of, on gamma radiolysis of liquid methane, 21:15946
  effects of, on radiolysis of 1-chloropropane, 21:8367
  effects of, on yields in radiolysis of liquid methane, 21:1380(R) (RRL-2310-188)
  effects on carbon dioxide yields from electron pulse radiolysis of carbon monoxide, 24:43934(R) (AECL-3556)
  effects on gamma-induced polymerization of ethylene, 21:23933
  effects on γ-induced polymerization of carbon monoxide—ethylenimine, 21:34293
  effects on hydrogen yields from γ radiolysis of liquid methylamine, mechanism of, 23:47474
  effects on hydrogen yields in electron radiolysis of deuterated and normal in solid state ethanol at -196°C, 22:18827
  effects on hydrogen yields in γ radiolysis of gaseous ammonia at high densities, 23:15915
  effects on ion recombination processes in hexane radiolysis, 22:30591(R) (RRL-2310-231)
  effects on mechanism of radiation-sensitized pyrolysis of ethanol vapor, 23:7572
  effects on radiolysis of ammonia, 25:2283
  effects on reactions of nitrous oxide in γ-irradiated liquid cyclopentane, 25:54655
  effects on uv photolysis of deuterated and normal formaldehyde, 21:23909
  effects on x-radiolysis of water vapor containing methanol, 22:35853
  effects on yields from pulse radiolysis of ammonia, 22:27771
  effects on yields from radiolysis of ammonia, 22:2127
  effects on yields from radiolysis of cyclohexane, 24:5675 (NP-18061)
  effects on yields from radiolysis of solid pentane, 24:46262
  effects on yields in gamma radiolysis of ammonia, 21:36005
  effects on yields in γ radiolysis of ethanol vapor at 60 to 200°C, 23:7571
  effects on yields of hydrogen in γ radiolysis of liquid cyclohexane, 24:29334
  electron reactions at 0.010 to 0.063 eV with, cross sections for momentum transfer in, (E), 21:18449
  formation by isomerization of cyclopropane, effects of pressure and temperature on carbon-13 isotope effects in, 22:80
  hydrogenation of, with deuterium on nickel, palladium, and platinum, isotopic exchange in catalytic, 21:5869
  melting phenomena in solid, (T), 22:1123
  oxidation over gold, effects of deuterium on, 25:54569
  photoionization and absorption of, effects of deuterium on, 25:78
  photoionization of gaseous, effects of deuterium on cross sections and yields for, 24:27029 (ANL-7615, pp 218-26)
  photolysis of sulfur hexafluoride in presence of, ESR spectra of free radicals produced by, 22:96(R) (RRL-2310-214)
  photon absorption cross sections of gaseous, effects of deuterium on, 24:27029 (ANL-7615, pp 218-26)
  polymerization of, effects of high pressure on radical, 22:4194
  polymerization over γ-irradiated silica—alumina catalysts, 23:35240
  production of deuterated, in reactions of deuterium with propyne, 24:9241
  pyrolysis for carbon deposition on thorium dioxide spheres, thermodynamics of, 24:23510 (ORNL-4531)
  radioinduced addition of hydrogen bromide to, mechanism of γ, 21:28015
  radioinduced cross-lining with polyethylene, effects of crystallinity on electron, 23:11577
  radioinduced polymerization at -196°C, ESR studies on gamma effects of xenon matrix on, 25:133
  radioinduced polymerization of, with ethylene, 22:4213
  radioinduced polymerization of, with sulfur dioxide at +25 to -196°C, 21:17682
  radioinduced polymerization with acrylonitrile in ethanol or tetrahydro-2-methylfuran glass solutions, ESR spectral studies on effects of zinc chloride on γ, 24:11556 (JAERI-5022, pp 27-32)
  radioinduced polymerization with acrylonitrile, effects of inorganic salts on γ, 24:11560 (JAERI-5022, pp 50-2)
  radioinduced polymerization with acrylonitrile, methyl methacrylate, or vinyl chloride in ethanol solutions, effects of metal salts on γ, 24:11559 (JAERI-5022, pp 45-9)
  radioinduced polymerization with carbon monoxide and 1-acetylaziridine or 1-acetyl-2-methylaziridine, α, electron, and γ, 24:217(P)
  radioinduced polymerization with carbon monoxide and ethylenimine or 2-methylaziridine, α, electron, and γ, 23:49854(P)
  radioinduced polymerization with chloroethylene, properties of products from γ, 24:31407
  radioinduced polymerization with ethylene, ir spectral studies on bonding in γ, 23:4680
  radioinduced polymerization with formaldehyde in carbon dioxide at 0°C, γ, 24:11561 (JAERI-5022, pp 53-8)
  radioinduced telomerization of, with carbon tetrachloride, yields from gamma, 21:8350
  radiolysis of deuterated, in liquid methane at -181 to -94°C, yields in, 22:96(R) (RRL-2310-214)
  radiolysis of mixtures of deuterated and normal, γ, 22:42782
  radiolysis of, effect of density, deuterium, and oxygen on yields from gamma, 21:3116
  radiolysis of, hydrogen yields in γ, 22:18824
  radiolysis of, role of hot hydrogen atoms and superexcited states in γ, 22:42782
  reactions of condensed films of, with ground-state oxygen atoms at 90°K, effects of deuterium on, 22:16557
  reactions of deuterated and normal, with decationated zeolites, spectral studies on, 21:8258
  reactions of liquid, with recoil tritium, yields from, 23:33213
  reactions of solid, with tritium atoms produced by electron impact on tritium gas, products from, 22:10240
  reactions with aqueous silver nitrate, stability constants for product from, 24:39027
  reactions with deuterium ions in heavy water, spectral studies on transfer, 21:25839
  reactions with deuterium ions, energy transfer and collisional deactivation in, 21:35951
  reactions with deuterium or heavy water on titanium dioxide catalyst, kinetics of, 22:2066
  reactions with recoil nitrogen-13, 24:19013
  reactions with recoil tritium at 79 to 511 torr, 25:32014
  reactions with recoil tritium atoms, in excess perfluorocyclobutene, abstraction yields from, 22:33404
  reactions with recoil tritium, radio gas chromatographic studies on, 23:37996
  reactions with recoil tritium, yields from, 24:46288
  reactions with tritium atoms, 23:28932 (MIT-905-133, pp 95-100)
  sorption by graphitized, 21:41653
  sorption by zinc oxide, ir spectral studies on effects of deuterium on production of allyl species by chemi-, 25:6306
  spectra of deuterated, internal rotation splitting in microwave, 22:35800
  thermal decomposition in fluidized beds for deposition of pyrolytic carbon on fuel particles, 25:16561 (JUL-686-RW)
  use in formation of pyrolytic carbon coatings at high deposition rates, 21:36909
  yields from γ radiolysis of 2-propanol vapor at 124 to 400°C, 25:13046
  yields from γ radiolysis of ethane, effects of additives on, 25:23615
  yields from γ radiolysis of liquid 2,2-dimethylpropane, effects of additives on, 25:26309
  yields from γ radiolysis of liquid and molecular-sieve-adsorbed hexadecane, effects of temperature on, 25:44395
  yields from γ radiolysis of methane, effects of ammonia, methanol, and 2-methylpropene on, 23:28905
  yields in gamma radiolysis of 2,2,4- and 2,3,4-trimethylpentane, effects of postirradiative additions of iodine on, 22:99
  yields in gamma radiolysis of argon—ethylene and ethylene solutions at -161°C, 21:36045
  yields in gamma radiolysis of binary alkane systems, energy transfer mechanism for, 21:30476
  yields in γ radiolysis of dilute solutions of cyclopropane in hexane, effects of dose on, 23:15884
  yields in γ radiolysis of furan, 23:245
  yields in γ radiolysis of liquid and solid dimethylmercury, effects of dose, radical scavengers, and temperature on, 23:268
  yields in γ radiolysis of liquid ethane, 23:2317
  yields in γ radiolysis of liquid propane—rare gas mixtures, effects of oxygen on, 23:285
  yields in low conversion radiolysis of methane, effects of alkenes and oxygen on, 22:35862
  yields in pyrolysis of carbon-14- or tritium-labeled 1-hexene, gas radiochromatography studies on, 23:13799(R) (COO-890-10)
  yields in radiolysis of cyclopentane, 22:50998
  yields in radiolysis of nitrogen—hydrocarbons, effects of carbon-11 production in, 21:120
  yields in radiolysis of vaporous methylcyclohexane, effects of additives on, 22:102
  yields of labeled and unlabeled, in radiolysis of gaseous deuterated and normal cyclohexane, effects of nitric oxide on, 22:35836
  yields of tritiated, from reactions of cyclohexene with tritium recoil atoms, 23:40754
  2-METHYL-, polymers, radiation effects on viscosity index of, gamma, 21:8389
  1-butene—N_2O—propene, radiolysis of gaseous, nitrogen yields in gamma, 22:2117
  1-butene—propene, reactions of condensed films of, with ground-state oxygen atoms at 90°K, effects of deuterium on, 22:16557
  chloroethylene—propene, radioinduced polymerization of, ir spectra of copolymers from γ, 22:42743
  CO—propene, radiolysis of, formation of carbon dioxide and oxygen atoms in γ, 23:19761
  ethylene—propene, radiation effects on properties and structure of, γ, 21:23935
  ethylene—propene, radioinduced graft polymerization with styrene, mechanism of, 23:43335 (CONF-690805-4)
  ethylene—propene, radioinduced polymerization with polypropene and vinyl monomers to yield ion-exchange membranes, 23:33234(P)
  ethylene—propene, radioinduced thermoluminescence of, at -196°C, 21:24029
  ethylene—propene, radiolysis of copolymers of, yields in γ, 21:45175
  ethylene—propene, radiolysis of polymers of, crosslinking parameters in γ, 23:4663
  ethylene—propene, radiolysis of polymers of, electronic and ir spectra of products from γ, 23:9491
  ethylene—propene, radiolysis of solid rubbers of, EPR spectral studies on temperature effects on γ, 23:233
  methane—propene, radiolysis of, 23:24245
  methanethiol—propene, radiolysis of, β and γ, 23:9421 (JLI-3655-200)

  N_2O—propane—propene, radiolysis of gaseous, nitrogen yields in gamma, 22:2117
  N_2O—propene, radiolysis of gaseous, nitrogen yields in gamma, 22:2117
  N—propene, radiolysis of, yields from γ, 24:9408
  N—propene, radiolysis of, yields in electron, mechanism of, 21:10368(R) (AGN-8178)
  ND_3—propene, reactions in, mass spectrometric studies of ion—molecule, 23:47572
  NH_3—propene, oxidation to acrylonitrile, efficiency of $USb_{4-6}O_{12-3}$ as catalyst in, 23:28797
  NH_3—propene, radiolysis of gaseous, yields of hydrazine, hydrogen, nitrogen, and propylamine from high dose rate electron pulse, 25:48553
  NH_3—propene, radiolysis of, effects of temperature on yields from electron pulse, 23:35234
  propene—vinyl alcohol, polymers of, radioinduced grafting to conjugated dienes, electron, 22:16631(P)
PROPENE, 3-BROMO-
  radiolysis in cyclohexane, absorption spectra of allyl radical in electron, 21:14256
  radiolysis of dilute solutions of, in 3-methylpentane, phototransformation of allyl radicals produced from γ, 23:35222
  radiolysis of, yields from γ, 21:24047
  3-bromopropene—cyclohexane, radiolysis of liquid, effects of diphenylpicrylhydrazyl on mechanism and yields from electron pulse, 24:50402 (CONF-690916-(Vol.2), pp 180-5)
PROPENE, 3-CHLORO-
  radioinduced reactions with trichlorosilane to yield 3-chloropropyltrichlorosilane, 23:40766(P)
  radioinduced telomerization of, with carbon tetrachloride, γ, 21:4558
  radiolysis of dilute solutions of, in 3-methylpentane, phototransformation of allyl radicals produced from γ, 23:35222
  yields from gamma telomerization of propylene with carbon tetrachloride, 21:8350
Propene, 1,2-Diphenyl-
    see Stilbene, α-Methyl-
PROPENE, 1,3-DIPHENYL-
  oxidation of deuterium-labeled, by selenium dioxide, isotopic effects in, 22:37766
PROPENE, HEXACHLORO-
  chlorine-36 exchange between aluminum chloride and, in dichloromethane solution, 22:12321
  radiolysis of, effects of dose on yields from γ, 21:122
PROPENE, HEXAFLUORO-
  effects on yields in γ radiolysis of hexane, 21:5834 (IA-1082, pp 77-202)
  radiation effects on γ-irradiated copolymers of, and tetrafluoroethylene, uv, 23:6181
  radioinduced addition reactions with alcohols and ethers, NMR spectral studies on yields in, 22:21095
  radioinduced graft polymerization of, with polycaproamide, polyethylene terephthalate, and polypropylene fibers, adhesion properties in γ, 22:10300
  radioinduced polymerization at -78°C, γ, 21:36054
  radioinduced polymerization of, beta and γ, 21:24000
  radioinduced polymerization with tetrafluoroethylene, γ, 22:42736
  radioinduced reaction with perfluoroalkyl iodide, 23:11568(P)
  radioinduced reactions of alcohols and ethers with, NMR spectral studies on γ, 21:23942
  hexafluoropropene—tetrafluoroethylene polymers, radiation effects on dielectric properties of, γ, 22:33463
  hexafluoropropene—tetrafluoroethylene, radioinduced polymerization of, ESR studies on free radicals formed in γ, 22:21100
  hexafluoropropene—tetrafluoroethylene, radioinduced polymerization of, ESR studies on free radicals formed in, 22:21099
  poly(difluoroethylene)—poly(hexafluoropropene), radiation effects on, γ, 24:249
  poly(hexafluoropropene)—poly(tetrafluoroethylene), radiation effects on, γ, 24:249
  polyhexafluoropropene—polytetrafluoroethylene, radiation effects on, effects of uv light and thermal annealing on radicals from γ, 21:36018
  polyhexafluoropropene—polytetrafluoroethylene, radiation effects on dielectric properties of, γ, 21:22001
  polyhexafluoropropene—polytetrafluoroethylene, radiation effects on, ESR spectra of radicals from, γ, 21:36016
PROPENE, 2-METHYL-
  deuterium exchange with hydrogen in, over alumina, 23:17440
  effects on γ induced polymerization of carbon monoxide—ethylenimine, 21:34293
  effects on hydrogen yields from α radiolysis of gaseous hydrogen sulfide, 25:26315
  effects on photolysis of deuterated and normal formaldehyde, 21:23909
  effects on radiolysis of methane, 24:2212(T) (ORNL-tr-2251)
  effects on reactions of recoil fluorine-18 in octafluorocyclobutane and hexafluorocyclobutene, scavenging, 25:13066
  effects on yields from γ radiolysis of gaseous ethylene, 25:57474
  effects on yields from γ radiolysis of methane, 23:28905
  effects on yields from radiolysis of solid pentane, 24:46262
  ions of, produced by γ radiolysis of liquid 2,2-dimethylpropane, kinetics of reactions of electron scavengers and hydrocarbons with, 25:26309
  photolysis of gaseous, reactions of tert-butyl carbonium produced by, 23:47546
  production in gas phase thermal decomposition of deuterium-labeled triisobutylaluminum, 24:16489
  radioinduced grafting on poly(vinyl chloride), by ionic mechanism, electron and, 22:2107
  radioinduced grafting onto film of poly(vinyl chloride) at -78 and -196°C, γ, 21:24014
  radioinduced ionic grafting with polyethylene fluff, 21:40930
  radioinduced polymerication at -78°C, γ, 21:36054
  radioinduced polymerization at -196°C, ESR studies on effects of xenon matrix on γ, 25:148
  radioinduced polymerization at -78 to -196°C, γ, 21:34304
  radioinduced polymerization in 3-methylpentane glass at 77°K, mechanism of electron, 22:42716(T) (AEC-tr-6937, pp 145-57)
  radioinduced polymerization in gaseous phase, γ, 21:42979
  radioinduced polymerization of bulk monomers of, 23:13760
  radioinduced polymerization of crystalline, at 4.2 and 77°K, γ, 23:33227
  radioinduced polymerization of gaseous, effects of additives, pressure, and temperature on γ, 24:44050
  radioinduced polymerization of glassy solutions of, in methylcyclohexane, yields of products in γ, 22:113
  radioinduced polymerization of liquid, yields of products in γ, 22:113
  radioinduced polymerization of solid, at 77 and 4.2°K, γ, 24:11623
  radioinduced polymerization of vapors of, kinetics and mechanisms of, 23:13760
  radioinduced polymerization of, carbonium mechanism in γ, 22:47180
  radioinduced polymerization of, comparison of molecular weight distribution of products of catalytically initiated and γ, 25:54621
  radioinduced polymerization of, distribution of molecular weight in, 23:47465(R) (ORO-2968-49)
  radioinduced polymerization of, effects of zinc oxide on rate of, 22:4177
  radioinduced polymerization of, ESR studies of γ, 21:23937
  radioinduced polymerization of, free ion reactions in, 23:24256
  radioinduced polymerization of, γ, 21:15959
  radioinduced polymerization of, in 3-methylpentane glass at 77°K, mechanism of electron, 22:8131
  radioinduced polymerization of, in glassy solvents at low temperature, spectral studies on γ, 24:11555 (JAERI-5022, pp 18-26)
  radioinduced polymerization of, in glassy state at low temperature, spectral studies on mechanism of γ, 23:17462 (JAERI-5018, pp 73-7)
  radioinduced polymerization of, kinetics of, 21:40894
  radioinduced polymerization of, propagation rate constant for, 23:255
  radioinduced polymerization of, under anhydrous conditions, effects of temperature on rate of γ, 23:35164
  radioinduced polymerization of, with 3-methylpentane at 77°K, ESR spectral studies on γ, 22:8105(T) (AEC-tr-6908, pp 154-6)
  radioinduced polymerization of, with or without 3-methylpentane, effects of anhydrous conditions on, 22:8096(T) (AEC-tr-6908, pp 56-63)
  radioinduced polymerization of, with sulfur dioxide, 22:8098(T) (AEC-tr-6908, pp 74-8)
  radioinduced polymerization of, with sulfur dioxide at -78 and -196°C, 22:4171
  radioinduced polymerization on silica gel at 77°K, ESR studies on mechanism of γ, 22:23040
  radioinduced polymerization under superdry conditions, γ, 25:57450 (ORO-3667-1)
  radioinduced polymerization with 3-methylpentane at 77°K, ESR spectral studies on γ, 21:19702
  radioinduced polymerization with formaldehyde, 21:23908 (BNL-50042)
  radioinduced polymerization with formaldehyde in carbon dioxide at 0°C, γ, 24:11561 (JAERI-5022, pp 53-8)
  radioinduced polymerization with liquid formaldehyde at low temperature, γ, 23:35139 (TID-24923)
  radioinduced polymerization with or without 3-methylpentane, effects of anhydrous conditions on, 21:19693
  radioinduced polymerization with sulfur dioxide, 21:19695
  radioinduced polymerization with tetrafluoroethylene, NMR spectral studies on product from γ, 25:4102
  radioinduced reactions with phosphorus trichloride, effects of dose and temperature on γ, 21:40881 (NP-16645)
  radiolysis of gaseous isotopic mixtures of, mechanisms of product formation in γ, 23:47473
  radiolysis of gaseous, ESR study of radicals from electron, 25:51509 (FRNC-TH-221)
  radiolysis of gaseous, yields of low-boiling-point condensation products from γ, 25:10640
  radiolysis of, effects of nitrogen monoxide on yields from γ, 22:8143
  radiolysis of, ESR study of trapped electrons and free radicals from γ, 21:25910
  radiolysis of, production of hydrogen from electron, 24:9347(R) (ORO-2001-17)
  reactions of molecules of, with photoinduced tert-butyl carbonium ions, 23:47546
  reactions with aqueous silver nitrate, stability constants for product from, 24:39027
  reactions with deuterium ions, energy transfer and collisional deactivation in, 21:35951
  reactions with deuterium or heavy water on titanium dioxide catalyst, kinetics of, 22:2066
  reactions with tritium atoms, 23:28932 (MIT-905-133, pp 95-100)
  spectra of deuterated and normal, ir and Raman, 22:48870
  vibrational modes of, by neutron molecular spectroscopy, 25:47617 (IN-1407, pp 155-83)
  yields from γ radiolysis of liquid 2,2-dimethylpropane, effects of additives on, 25:26309
  yields from γ radiolysis of liquid tert-butyl hydroperoxide, 24:7467
  yields from radiolysis of tert-butyl hydroperoxide, 21:23973
  yields from reactor radiolysis of dimethyldiphenylsilane and trimethylphenylsilane at high temperature, 24:48130
  yields in γ radiolysis of cyclopentane—2,2,4-trimethylpentane, energy transfer mechanism for, 21:30476
  1-bromo-2-methylpropane—2-methylpropene, radiolysis of, γ, 24:33724
  2-methylpropene—poly(chloroethylene), radioinduced cationic polymerization of, 23:47494
  2-methylpropene—styrene, radioinduced polymerization of, fractionation of copolymers produced by, 23:49861
  3-methylpentane—2-methylpropene, radioinduced radical conversions in, ESR spectral studies on effects of low temperature and uv irradiation on, 24:7448
  dimethylamine—2-methylpropene, radiolysis of, yields in electron, 21:14237(R) (JLI-2901-75)
  dimethylsilane—2-methylpropene, radiolysis of, β and γ, 23:9421 (JLI-3655-200)
  dimethylsilane—methylpropene, radiolysis of, 22:21091 (JINR-P9-3402)
  H_2O—2-methylpropene, radiolysis of, yields in γ, 21:14237(R) (JLI-2901-75)
  methanethiol—2-methylpropene, radiolysis of, β and γ, 23:9421 (JLI-3655-200)
  methanol—2-methylpropene, radiolysis of, mechanism and yields in electron, 21:14237(R) (JLI-2901-75)
PROPENE, 2-METHYL-, POLYMERS
  radiation effects on, ESR studies of free radicals from uv, 22:25414
  radiation effects on, role of nitrous oxide atmosphere in γ, 22:6344
  radioinduced cross linking with acrylonitrile or divinylbenzene, calorimetric studies on effects of dose on γ, 25:4101
  radioinduced crosslinking in presence of divinylbenzene at 77°K, kinetics of γ, 25:23596
  radioinduced decomposition of, in heptane solution, 21:5937
  radioinduced free radical formation in, γ and uv, 22:6353
  radioinduced grafting of polystyrene to, fractionation following γ, 21:8408
  radioinduced grafting with chloroethylene polymers and aromatic monomers, 22:47194(P)
  radioinduced vulcanization of divinylbenzene-impregnated, γ, 24:33731
  radiolysis of, effects of oxygen and role of reticulation on γ, 21:8389
  poly(2-methylpropene)—polystyrene, radioinduced production of, molecular weight fractionation in, 24:29316
  poly(2-methylpropene)—polystyrene, radioinduced, polydispersity in chemical composition and molecular mass of, 23:28926
  poly(2-methylpropene)—styrene, radioinduced polymerization of, properties of products of γ, 23:9467
Propene Oxide
    see Propylene Oxide
PROPENE, PENTAFLUORO-2-(TRIFLUOROMETHYL)

  radioinduced polymerization of, beta and γ, 21:24000
PROPENE POLYMERS
  analysis for aluminum, calcium, titanium, chlorine, and sodium by neutron activation and γ spectroscopy, 23:35034
  analysis of synthetic fibers of, for impurities by thermal neutron activation and γ spectrometry or radiochemical separation, 23:17385
  crosslinking of, effects of allyl acrylate and ultraviolet radiation on, 21:5918
  efficiency of fiber beds of, for removing aerosol particles from gas streams, (E), 22:25567 (BNWL-481-3, pp 94-6)
  electron decay in irradiated, discharge measurements, 21:44200
  photolysis of, structure of free radicals from uv, 24:33740
  polymerization of preirradiated, with gaseous vinyl chloride and vinylidene chloride, 21:19660
  properties of foamed, 22:33408(P)
  properties of thin membranes of, for on-line alpha activity monitoring of solutions, 25:34673 (CEA-N-1440)
  radiation attenuation in, 14.4-keV gamma and 6.3-keV x, 21:39210
  radiation chemistry of, 23:47463 (COO-1088-37)
  radiation effects at -196°C on thermolumenescence of, 22:42785
  radiation effects on bacteria on syringes of, fast electron, 22:19463
  radiation effects on chlorination of solid, gamma, 21:3097
  radiation effects on dielectric and mechanical properties of, effects of dose on γ, 23:17487
  radiation effects on dielectric and mechanical properties of, γ, 23:47467(T) (UCRL-Trans-10376)
  radiation effects on dielectric and physical properties, effects of allyl methacrylate on γ, 23:28904
  radiation effects on dielectric properties of, electron or γ, 24:12499
  radiation effects on electrostatic properties of, coated with silica or silicic acid films, 21:129(P)
  radiation effects on fibers of, stabilization against, 21:11329
  radiation effects on graft polymerization of, with poly(butyl methacrylate), poly(methyl methacrylate), and polystyrene, structural effects on γ, 22:40145
  radiation effects on molecular structure of, ir spectral studies on mechanism of γ, 24:22671(R) (ORO-2418-7)
  radiation effects on molecular weight of, 21:23916

radiation effects on nitric acid-etched crystals of, ESR spectral studies on effects of annealing on γ and uv, 23:45320
radiation effects on production of peroxy radicals in, ESR studies on γ, 23:26304
radiation effects on radical formation in, γ, 21:25887
radiation effects on stabilized, 22:23056
radiation effects on stress-rupture stability of isotactic, by cross linking, electron, 25:2249
radiation effects on subsequent polymerization of styrene on, ESR studies on γ, 24:38904
radiation effects on subsequent polymerization with 4-vinylpyridine, 22:51031
radiation effects on temperature dependence of electric conductivity of, γ, 22:42735
radiation effects on thermal conductivity of, γ, 22:4208
radiation effects on thermal properties of, gamma, 24:25812
radiation effects on thermostimulated current in, γ, 25:21001
radiation effects on, effects of alkyl derivatives of pyrocatechol on γ, 23:4665
radiation effects on, ESR and optical studies of trapped electrons from γ, 23:33208
radiation effects on, ESR studies on configuration and decay of free radicals produced by γ, 22:123
radiation effects on, oxygen uptake in gamma, 21:19690
radiation effects on, oxygen uptake in γ, 22:8093(T) (AEC-tr-6908, pp 33-41)
radiation effects on, polymerization with chloroethylene or 1,1-dichloroethylene following γ-, 23:11566
radiation effects on, relation of positron capture to γ, 24:31431
radiation effects on, role of nitrous oxide atmosphere in γ, 22:6344
radioinduced chlorination of, kinetics of, 25:2250
radioinduced crosslinking of, effects of sulfur chloride on, 22:14544
radioinduced crosslinking of, gamma, 21:17688
radioinduced electric conductivity of, effects of electric field on, 23:28821
radioinduced formation of foamed, 22:33408(P)
radioinduced free radical formation in, γ and uv, 22:6353
radioinduced gas-phase grafting of alkyl methacrylates on, 23:6173
radioinduced graft polymerization of acrylamide on fibers of, methods for γ, 24:22679
radioinduced graft polymerization of fibers of, with acrylic acid, effects of aftertreatments on properties of products of γ, 22:21094
radioinduced graft polymerization of fibrous, with styrene, gamma, 21:5936
radioinduced graft polymerization of styrene on, effects of temperature on γ, 24:22693
radioinduced graft polymerization of, with chlorotrifluoroethylene and hexafluoropropene, adhesion properties in γ, 22:10300
radioinduced graft polymerization with acrylamide, methacrylic acid, and mixtures with styrene, properties of products from γ, 24:31392
radioinduced graft polymerization with acrylonitrile, chain peroxidation mechanism for γ, 24:7470
radioinduced graft polymerization with acrylonitrile, methyl methacrylate, and vinyl acetate, ir spectral studies on effects of hydrolysis on, 24:29329
radioinduced graft polymerization with β-lactone of hydracrylic acid in presence of maleic anhydride, comparison of radical catalysts with γ, 24:226
radioinduced graft-polymerization of acrylonitrile on fibers of, 22:35843(P)
radioinduced grafting of alkyl methacrylates onto, γ, 22:25427
radioinduced grafting of styrene on, γ, 22:25418
radioinduced grafting of styrene onto, γ, 21:24015
radioinduced grafting of vinyl chloride from gas phase to, properties of products from, 25:37415
radioinduced grafting of vinylpyrrolidone on, γ, 22:25418
radioinduced grafting of, with dienes or acrylates, 23:19763(P)
radioinduced polymerization of acrylic acid on fibers of, tensile property change from, 21:22000
radioinduced polymerization of monomers on films or fibers of, x, 25:21029
radioinduced polymerization of vinyl chloroethylene or 1,1-dichloroethylene on fibers of, γ, 24:9406
radioinduced polymerization of, kinetics of electron, 21:25880
radioinduced polymerization with ethylene—propene rubber and vinyl monomers to yield ion exchange membranes, 23:33234(P)
radioinduced polymerization with vinyl chloride or vinylidene chloride, γ, 22:42754
radioinduced production of expanded particulate, 24:16563(P)
radioinduced sulfochlorination of liquid, breakdown of crystal structure in γ, 22:27784
radioinduced sulfochlorination of powders of, electron microscopic studies of compounds formed by, 22:27789
radioinduced thermally stimulated currents in, γ, 25:18422
radioinduced thermoluminescence of isotactic, effects of oxygen on, 24:11596
radioinduced thermoluminescence of, at -196°C, 21:24029
radioinduced vapor-phase graft polymerization of fibers of, with solid acenaphthylene or acrylamide, γ, 22:27821
radiolysis in nitrous oxide, γ, 22:21117
radiolysis of atactic and isotactic, effects of ethylene and nitrous oxide on γ, 25:54637
radiolysis of isotactic, ESR spectroscopy of trapped electrons following γ, 25:23625
radiolysis of solid, ESR spectral studies on formation of radical pairs from γ, 23:21752
radiolysis of, crosslinking parameters in γ, 23:4663
radiolysis of, effects of energy on α and γ, 25:13055
radiolysis of, effects of molecular weight, oxygen content, and segmental mobility of polymer chains on, 22:33454
radiolysis of, electron capture by nitrous oxide in γ, 24:33712
radiolysis of, EPR and uv spectra of allyl radicals from γ, 23:28892
radiolysis of, EPR study of peroxide radical formation from, 24:13961
radiolysis of, ESR of radical pairs in γ, 21:19671
radiolysis of, ESR studies on reactions of gases with free radicals produced by, 22:37779(T) (ORNL-tr-1969)
radiolysis of, kinetics of photoinduced conversion of allyl and polyene radicals in γ, 23:28891
radiolysis of, structure of free radicals from γ, 24:33740
radiosterilization of articles of, γ, 24:16555(P)
radiosterilization of heat-stabilized, effects of thiodipropionate on γ, 25:15653(P)
sorptive properties for thorium as TTA complex, 24:16509
stabilization fibers against heat, 21:11329
stress corrosion cracking of chemical plant construction materials of, methods of inhibiting, 23:16553
use as solid particle track detector, 22:327
use for windows of gas-filled ionization chambers, for x-ray detection, 22:38020
x-ray absorption at 44 to 85 A by, mass coefficients for, (E), 24:46991
polyalkenes—polypropene, radiosterilization of shaped articles of, 24:16555(P)
polyethylene—polypropene, radiation effects on dielectric and physical properties of, effects of allyl methacrylate on γ, 23:28904
polyethylene—polypropene, radiation effects on thermal properties of, effects of dose on, 24:29330
polyethylene—polypropene, radioinduced polymerization with acrylic acid, dodecafluoroheptyl acrylate, and vinyl monomers, electron, 23:19755
polyethylene—polypropene, radiolysis at -180°C, ir spectrometric study of, 25:4118
polyethylene—polypropene—Si, testing for sealing high-pressure carbon dioxide vessels, 22:45833
polyethylene—polypropylene, testing Nordel, for use in reactor O rings, 22:34128 (BNWL-736)

PROPENE, 3-(2-PROPENOXY)-
radioinduced ionization in solid, use of alkyl disulfides for determining yields from γ, 24:41339

PROPENE, 1,3,3,3-TETRAPHENYL-
effects on polymerization of styrene, 21:23996

PROPENE, 3,3,3-TRIFLUORO-
tetrafluoroethylene—3,3,3-trifluoropropene, radioinduced copolymerization of, effects of pressure and temperature on γ, 22:27762

1-PROPENE-1,2,3-TRICARBOXYLIC ACID
radiolysis of aqueous solutions, effects of pH, dose rate, oxygen, and other chemical scavengers on yields from γ, 21:34299

Propenoic Acid
see Acrylic Acid

2-Propen-1-ol
see Allyl Alcohol

PROPERDIN
radiation effects on activity of, in serum of rabbits, protective effects of methyluracil against, 24:7933
radiation effects on content of serum, following x radiotherapy of uterine carcinomas, 21:4853
radiation effects on content of, in blood serum of humans and rabbits, uv, 21:32754
radiation effects on content of, in blood serum of man, uv, 21:18171
radiation effects on titer of, in serum of man, x, 22:545
radioprotective effects of, against shortening of life spans in x-irradiated rabbits, 21:14681

PROPERTIES
(Use more specific term)
see also Electric Properties
see also Magnetic Properties
see also Mechanical Properties
see also Molecular Properties
see also Tensile Properties
see also Thermal Properties
see also Thermodynamic Properties
see also Thermoelectric Properties

β-Propiolactone
see Hydracrylic Acid, β-Lactone

PROPIOLIC ACID, (CHLOROPHENYL)-
hydration of 25°C in deuterated and normal water—sulfuric acid solutions, isotope effects in, 22:4104

PROPIOLIC ACID, (3,4-DICHLOROPHENYL)-
hydration of 25°C in deuterated and normal water—sulfuric acid solutions, isotope effects in, 22:4104

PROPIOLIC ACID, (METHOXYPHENYL)-
hydration of 25°C in deuterated and normal water—sulfuric acid solutions, isotope effects in, 22:4104

PROPIOLIC ACID, PHENYL-
hydration of 25°C in deuterated and normal water—sulfuric acid solutions, isotope effects in, 22:4104

PROPIOLIC ACID, TOLYL-
hydration of 25°C in deuterated and normal water—sulfuric acid solutions, isotope effects in, 22:4104

PROPIOLONITRILE
microwave emission from, in Sgr B2, (E), 25:9094

PROPIONALDEHYDE
beta scattering by aqueous solutions of, effects of atomic number and bonds on, 22:124
oxidation in acetic acid—chromic acid—water, deuterium isotope effects on kinetics of, 23:121
photoinduced chemical reactions with uranyl ions, kinetics of uv, 24:41274
production by radiolysis of l-propanol, 22:27778
radioinduced reactions with uranyl ions in aqueous and nonaqueous solutions, mechanism of uv, 22:35871
radiolysis of aqueous solutions of, spectral studies on after-effects in x, 23:273
radiolysis of, effects of dose, iodine, and nitric oxide on yields from γ, 23:11539
reactions of, on solid phosphoric acid catalyst, mechanism of rearrangements in, 21:14184(R) (ORO-3234-4)
yields in radiolysis of 1-propanol, effects of dose on, 21:38972
yields of, from radiolysis of 1-propanol, 21:10383

Propioaldehyde, 3-Phenyl-
see Hydrocinnamaldehyde

PROPIOLOPHENONE, 3-PHENYL-
hydration of, effects of deuterium on acid-catalyzed, 23:206

PROPIONAMIDE
effects of, on gamma radioinduced polymerization of acrylamide in solid state, 21:10375(R) (NYO-1715-16)
radiation effects on subsequent reactions of, with sulfur dioxide, γ, 24:27118
radiation effects on subsequent reactions of, with nitric oxide, oxygen, or sulfur dioxide, γ, 24:27117
radiation effects on, EPR study of reactions of oxygen and sulfur dioxide with radicals from γ, 22:27749
radiation effects on, ESR study of free radicals from x, 22:48884
reactions of γ-irradiated, with ethylene, ESR, gas absorption, and x-ray studies on, 24:25087
reactions of irradiated, with oxygen, products of, 22:37775 (BNL-50082, pp 40-78)
separation of traces of radioactive acetamide from, by zone refining, 22:8191

PROPIONAMIDE, N-BUTYL-
polymers, radioinduced oxidation by aromatic amines and ethers, mechanisms of, 22:27781

PROPIONAMIDE, 3-[(2-MERCAPTOETHYL)AMINO]-
toluene sulfonate, pharmacological effects on cats, 24:23236(R) (NYO-2192-13)

PROPIONAMIDE, N-METHYL-
radiolysis of liquid, properties of products from electron pulse, 25:44397
radiolysis of, yields of ions and excited states from electron pulse, 25:160

PROPIOAMIDINE, 3,3'-DITHIOBIS-
radioprotective effects in mice, x, 21:43455
radioprotective effects of, against genetic damage in mice, x, 22:40900

PROPIONATES
see also Ammonium Uranyl Propionates
see also Cesium Uranyl Propionates
see also Potassium Uranyl Propionates
see also Rare Earth Uranyl Propionates
see also Rubidium Uranyl Propionates
radiation effects on content of sheep serum, effects of air blast injury and fasting on γ and neutron, 25:13384

PROPIONIC ACID
see also Propionates
analysis for carbon-14 by radiochromatography, 25:20934
calcium strontium salt, slow neutron scattering on, (E), 21:37617
complexes with neptunyl compounds, voltammetry at rotated glassy carbon electrode of, effects of pH on, 25:23560
complexes with uranium, stability constants for, 22:47119
complexes with uranyl ions, stability constants of, 23:19739
determination of liquid, as product from γ radiolysis of solid succinic acid, gas chromatographic, 23:49863
deuterium exchange between heavy water and, 22:12327
effects on gamma-induced dehalogenation of halogenoaliphatic compounds, 21:25906
effects on γ-radioinduced graft polymerization of 2- and 4-vinylpyridine with polyethylene terephthalate, 23:17450 (JAERI-5018, pp 5-14)
effects on solvent extraction of europium from aqueous solution using 4,4,4-trifluoro-1-phenyl-1,3-butanedione, 23:40836
ketonization on thorium oxide, 23:15870
production by γ radiolysis of succinic acid, 21:36052
radiation effects on production of, in fibrous and globular proteins, gamma, 25:23940 (NYO-2735-13)
radiation effects on, effects of carbon tetrachloride on reactions of recoil tritium atoms produced by neutron, 24:44043
radioinduced polymerization with acetamide and acrylamide in glassy phase, differential thermal and ESR spectral studies on γ, 21:45174
radioinduced production of, from α chymotrypsinogen, polyalanine, polyglycine, and silk fibroin, γ, 24:34105
radioinduced telomerization of ethylene by, γ, 25:54612
radiolysis in aqueous solutions, study of transient optical absorption spectra from pulse, 24:7457
radiolysis of aqueous perchloric acid solutions of, rate constants for reactions of hydrogen atoms produced by γ, 25:18459
radiolysis of vapors of, emission spectra from 3-MeV electron, 24:9347(R) (ORO-2001-17)
radiolysis of, adsorbed on silica gel, ESR study of γ, 22:47171
radiolysis of, effects of tetrahydro-2-methylfuran rigid matrix on ESR spectra of radicals from γ, 24:216
reactions of, with uranium tetrachloride, 21:1353
reactions with uranium pentaethoxide in benzene, mechanism and products from, 24:13831
salts, radiation effects on absorption by rat intestine, x, 21:20390
sodium salt, complexes with hexavalent neptunium, voltammetric study of, 25:18376
sodium salt, effects on bacterial count in seafood, combined effects of radiation on, 21:45856(R) (ORO-654)
sodium salt, entropy of transfer between normal and heavy water, 24:27086
solvent properties for thulium, effects of chloroform and 4-methyl-2-pentanone on, 25:234
thorium salt, thermal decomposition of, emanation study of, 21:30429

  yields from γ and reactor radiolysis of malonic and succinic acids, 23:21761
  yields from γ and reactor radiolysis of solid malonic and succinic acids, 23:17467
PROPIONIC ACID, ALLYL ESTER
  spectra of pure and carbon tetrachloride solutions of, NMR, 21:45086 (ORNL-4164, pp 46-56)
Propionic Acid, 2-Amino-
    see Alanine
Propionic Acid, 3-Amino-
    see β-Alanine
Propionic Acid, 2-Amino-2-hydroxy-
    see Serine
PROPIONIC ACID, 2-(AMINOOXY)-
  complexes with cerium and yttrium, preparation and properties of, 23:6120
PROPIONIC ACID, 2,2-BIS(HYDROXYMETHYL)-
  complexes with rare earths, stability constants for, 24:36199 (IS-T-381)
PROPIONIC ACID, 2-BROMO-
  bromine-82 exchange between bromide ion and, mechanism of, 21:5834 (IA-1082, pp 77-202)
  effects on gamma-induced dehalogenation of halogenoaliphatic compounds, 21:25906
  radioinduced debromination of, effects of aliphatic free radicals on γ, 21:25906
PROPIONIC ACID, 3-BROMO-
  reactions with acetic acid, acetone, and alcohols, production of bromide ions by, 21:5834 (IA-1082, pp 77-202)
PROPIONIC ACID, 3-CHLORO-
  complexes with plutonyl ions in aqueous solution, potentiometric study of, 24:13841
PROPIONIC ACID, 2-(p-CHLOROPHENOXY)-2-METHYL-
  effects on cell reproduction in etiolated bean leaf disks, combined effects with ultraviolet radiation, 21:22777
Propionic Acid, 2,3-Dihydroxy-
    see Glyceric Acid
Propionic Acid, 2,2-Dimethyl-
    see Pivalic Acid
PROPIONIC ACID, 3,3'-DITHIODI-
  radiation effects on single crystals of, ESR spectra from x, 21:12472
PROPIONIC ACID, ETHYL ESTER
  radiation effects on glasses of, at 77°K, effects of 1-chlorobutane or tetrahydro-2-methylfuran on anion production in γ, 23:33240
  radiolysis of, effects of tetrahydro-2-methylfuran rigid matrix on ESR spectra of radicals from γ, 24:216
PROPIONIC ACID, 3,3',3'',3'''-(ETHYLENEDIPHOSPHINIDYNE)-TETRA-
  complexes with rare earths, preparation of, 22:40059
Propionic Acid, 2-Hydroxy-
    see Lactic Acid
Propionic Acid, 3-Hydroxy-
    see Hydracrylic Acid
PROPIONIC ACID, 2-HYDROXYIMINO-
  potassium salt, radiation effects on, ESR studies on gamma, 21:15958
  sodium salt, radiation effects on, ESR studies on gamma, 21:15958
PROPIONIC ACID, 3-IODO-
  effects on radiosensitivity of alcohol dehydrogenase in aqueous solutions, ionizing, 25:4543
  effects on x-radiosensitivity of alcohol dehydrogenase from yeasts, 22:21445
  effects on x-radiosensitivity of Ehrlich ascites tumor cells in cultures, 25:4569
  effects on x-radiosensitivity of enzymes in solutions, 25:4569
  radioprotective effects of, on bacteria, uv, 25:32456
  radiosensitizing effects of, on activity of alcohol dehydrogenase, x, 22:43218
PROPIONIC ACID, 2-MERCAPTO-
  complexes with rare earths, stability of, 22:21054 (ORO-1797-11, pp 1-113)
  complexes with rare earths, thermodynamic properties of, 22:21054 (ORO-1797-11, pp 1-113)
  radioprotective effects of derivatives of, on mice, 22:43378
  radioprotective effects of, on solutions of deoxynucleotides in relation to release of inorganic phosphate, γ, 25:16216 (UCLA-12-799)
  radioprotective effects on protein molecules, 23:19757
  reactions with uranium pentaethoxide, 25:6298
  use as gravimetric reagent for zirconium, 23:31
PROPIONIC ACID, 3-MERCAPTO-
  complexes with rare earths, stability of, 22:21054 (ORO-1797-11, pp 1-113)
  complexes with rare earths, thermodynamic properties of, 22:21054 (ORO-1797-11, pp 1-113)
  radiolysis of aqueous solutions of, ESR studies of radicals from electron, 25:44399
  radioprotective effects of, on glycine and glycylglycine substrates, γ, 23:31643
Propionic Acid, 2-Methyl-
    see Isobutyric Acid
PROPIONIC ACID, METHYL ESTER
  radiolysis of, effects of tetrahydro-2-methylfuran rigid matrix on ESR spectra of radicals from γ, 24:216
PROPIONIC ACID, 3-(METHYLTHIO)-
  formation by x-irradiation of methionine, 21:23941
Propionic Acid, 3-Phenyl-
    see Hydrocinnamic Acid
PROPIONIC ACID, 3,3',3''-PHOSPHINIDYNETRI-
  complexes with rare earths, preparation of, 22:40059
  complexes with thorium and uranium, preparation of, 22:40059
PROPIONIC ACID, THIO-
  complexes with uranyl ion, potentiometric studies of formation of, 23:146
PROPIONIC ACID, 3,3'-THIODI-
  esters, effects on γ radiosterilization of propene polymers, 25:15653(P)
PROPIONIC ACID, 3,3'-THIODI-, DODECYL ESTER
  effects on radiation damage to polyethylene, 21:42991

PROPIONITRILE
  performance as quenching gas in Geiger—Mueller counters, 23:41031
  production in radiolysis of acetonitrile, mechanism of, 22:37775 (BNL-50082, pp 40-78)
  radiation effects on, in tetrahydromethylfuran glass at 77°K, ESR spectral and optical studies on reaction intermediates produced by γ, 24:31379
  yields in gamma radiolysis of acetonitrile, effects of scavengers on, 22:16573
  benzonitrile—propionitrile, dielectric constant and loss factor of, 22:16363(R) (ORO-2840-4)
  benzonitrile—propionitrile, electric properties of, 22:14388 (ORO-2840-5)
PROPIONITRILE, 2,2'-AZOBIS[2-METHYL-
  effects on crosslinking in production of polyurethane elastomers, 21:15930
  effects on electron-radioinduced curing of diallyl phthalate—vinyl acetate for use as laminate for wood veneer, 24:11571 (JAERI-5022, pp 111-24)
  effects on graft polymerization of polyethylene with styrene, 25:2241
  effects on γ telomerization of ethylene with cyanogen chloride, 21:8351
  effects on polymerization of 2-vinyl-1,3-dioxolane, properties of products in, 22:112
  effects on polymerization of β-lactone of hydracrylic acid, 24:226
  effects on polymerization of ethylene at 20 to 45°C, effects of liquid carbon dioxide on, 23:6160
  effects on polymerization of ethylene, comparison of reactivity of chain radicals produced by γ radiation and, 24:31383
  effects on polymerization of ethylene, role of excited monomer in propagation reaction of, 25:10612
  effects on polymerization of liquid cetyl vinyl ether, 23:40725
  effects on polymerization of styrene in different solvents, activation analysis studies on mechanism of, 24:38800
  effects on polymerization of vinylcarbazole, mechanism of, 22:35841
  effects on uv-radioinduced polymerization of 4-methyl-1-pentene, 21:19694
  effects on uv-radioinduced polymerization of 4-methyl-1-pentene, 22:8097(T) (AEC-tr-6908, pp 64-73)
  hydrogen abstraction from, by polystyryl radicals, 23:6114
  photolysis of, magnetic trapping of radical pairs from ultraviolet, 21:17653
  radiolysis of benzene and stilbene solutions of, effects of energy transfer on yields from γ, 25:21033
  thermal decomposition of, effects of deuterium on formation of radicals in, 22:50987
  thermal decomposition of, in chlorobenzene or toluene solution, deuterium isotope effects in, 22:10217
  2,2'-azobis[2-methylpropionitrile]—benzene, radiolysis of, effects of additives on yields of nitrogen from electron pulse, 25:41872
PROPIONOHYDROXAMIC ACID, N-[5-[3-[(5-AMINOPENTYL)HYDROXYCARBAMOYL]-PROPIONAMIDO]PENTYL]-3-[[5-(N-HYDROXYACETAMIDO)PENTYL]-CARBAMOYL]-
  complexes with uranium, spectrophotometric studies on, 23:33185
PROPIONYL CHLORIDE
  radiation effects on, in organic glasses, ESR and optical studies of γ, 23:263
PROPIOPHENONE
  hydrochloride, distribution of tritium-labeled, in tissues of guinea pigs following subcutaneous injection, 22:31006
  radiolysis of, yields from electron, 25:2266
  reactions of, with phosphoric acid catalyst, rearrangements in, 21:14184(R) (ORO-3234-4)
PROPIOPHENONE, p-AMINO-
  effects on survival of mice exposed to hyperbaric oxygen, 22:8561(R) (COO-1223-10)
  metabolism in mice, 23:29569(R) (COO-1223-14)
  radioprotective effects of, against sublethal single or short term exposure of man, 24:36767
  radioprotective effects of, in combination with cystamine and cystaphos on mice, effects of methemoglobin content on, 24:50956
  radioprotective effects of, on mice, fast neutron and x, 25:55266
  radioprotective effects of, on mice, reaction mechanisms for x, 24:39516 (COO-1223-15)
  radioprotective effects of, on mice, x, 23:38628
  radioprotective effects of, on mouse stem cells, x, 25:4571
  radioprotective effects of, on oral cavity and tongues of mice, 22:15038
  radioprotective effects on mice in relation to cyclic AMP mechanism, 25:49211
  radioprotective effects on mice, effects of dose, sex, and strain on x, 25:55257
PROPIOPHENONE, 4'-AMINO-
  effects on respiration of mitochondria from brain and liver of irradiated and unirradiated rats, 21:22636
  radiation protection by, relation of, to effects on oxygen tension in mouse tissues, 21:22596
  radioprotective effects in mice, 21:34704
  radioprotective effects in orally x irradiated mice, 21:32717
  radioprotective effects on mice, effects of isonicotinic acid hydrazide on, 21:36681
  radioprotective effects on respiration in mitochondria from brain and liver of rabbits, γ, 21:34705
  use for radiation protection of mice, 21:6487(R) (COO-1223-6)
Propiophenone, 2-Methyl-
    see Isobutyrophenone
PROPIOPHENONE, 3-PIPERIDINO-
  radioprotective effects of, on mice and rats, combined effects of morphine on, 22:25863
PROPOLIS
  radioprotective effects of, on survival of mice, 22:10791
  use for treatment of radiation injuries in mice, 22:10791

PROPRANOLOL
  effects in combination with dibenamine and noradrenaline on x-radioprotective effects of AET and cystamine on mice, 25:44829
  effects on increased tissue blood flow in human tissue following radioactive baths, xenon tracer study on, 25:44880
  effects on radioprotective action of TAB vaccine on x-irradiated mice, 25:19026
  effects on radioprotective effects of adrenaline and noradrenaline in mice, 25:26804
  effects on sympathomimetic effects on oxygen pressure in mouse spleen, 25:29547
  radioprotective effects of, on thyroid of man during iodine-131 therapy, β and γ, 23:10035
PROPULSION
    see also Jet Propulsion
    see also Rocket Motors
  book: Electric Propulsion, 23:20952
  book: Ion Propulsion, 25:30453
  book: Jet, Rocket, Nuclear, Ion, and Electric Propulsion: Theory and Design, 23:43180
  conference on energy conversion, plasma flow, and, Stuttgart, 1/65 and 4/66, 23:32208 (DLR-MITT-67-17)
  conference on new experimental techniques in research on energetics and, Munich, 9/67, 25:36107
  conference on propulsion and re-entry, 23:20875
  conference on space-vehicle, 10th international, Rome, Italy, 3/70, 25:10420
  development of nuclear, 21:19420
  electric arc-jet, increase of exhaust velocity by electromagnetic forces, (E), 21:46210(T) (LA-tr-67-33)
  electric devices for, prospects of, 23:20744
  electric systems for space, performance of cesium-contact, 22:13297
  electric systems for space, review of, 22:25594
  electric systems for, review of, 22:16377
  electric, magnetic field effect on space-charge neutralization in, (T), 22:9141
  electric, testing for SERT I flight, 22:13298
  electrothermal and hybrid electrothermal—electromagnetic, performance of, 22:13302
  feasibility of plasma, using inductive MPD converters, 25:9439
  feasibility of plasma, using self-magnetic and Hall-current devices, 25:9438
  fuel for rocket, use of fissioning uranium plasma, 23:42017
  ion beam, extractor system design for, 21:13375
  ion engine for space, technology of, 21:11453
  ion engine for space, technology of, 21:11454
  ion engine, cesium plasma properties in electron-bombardment, 21:20948
  ion engine, diagnostic instrumentation for testing, 21:37415 (AD-650857)
  ion engines for, performance of porous tungsten ionizers in, 23:22531
  ion source design and performance for space, 24:44165
  ion source for, development of heavy, 21:9350
  ion sources for, properties of cesium surface, 21:9348
  ion thruster for, electron and ion density measurements for, 21:7190 (NASA-TN-D-3761)
  ion thruster for, optimization of Giessen, 22:5046(T) (NP-tr-1599)
  ion thruster, design and performance of hollow-cathode plasma-bridge neutralizer for 20-cm mercury, 22:52581
  ion thrusters for, discharge chamber studies for mercury, 23:27618 (N-69-12544)
  ion thrustor, anomalous diffusion in electron-bombardment, 21:18406 (N-67-10798)
  ion, conference on, 24:26304
  ion-beam neutralization problem in electric, magnetic field effects on, 21:28958 (SSD-TR-67-34)
  magnetohydrodynamic, with very high magnetic fields, (T), 23:18485
  nuclear electric, review of thermionic, 22:30284
  nuclear energy systems for space, review of advanced, 23:13946
  nuclear reactors for ship, Euratom catalog of, 22:4303 (EUR-3568)
  performance of gaseous core reactor for space, (T), 21:2865 (AD-635232)
  photovoltaic cells for space, development of, 22:13306
  plasma acceleration theory of, 21:660 (AD-634253)
  plasma accelerator development for space, 22:13303
  plasma accelerator for space vehicle, electron cyclotron resonance, 22:13301
  plasma jet, accelerator design for, 25:36105(P)
  plasma jet, development of motors for, 22:12216
  plasma jet, for space flight, 25:47514 (LA-DC-12520)
  plasma jet, microwave-powered accelerator development for, (T), 24:26169
  plasma jet, particle density profiles in, 21:9591
  plasma jet, performance and diagnostics of water-cooled MPD arc, 24:51642 (N-70-27939)
  plasma jet, performance of, 21:5263(R) (AD-637494)
  plasma jet, performance of coaxial gun, 21:2226(R) (N-66-22244)
  plasma thrustor for space, performance of, 22:36909 (N-68-16396)
  power for, production method using radioisotope decay heat, 23:38198(P)
  radioisojet thruster for space vehicle, nuclear safety analysis of promethium oxide-fueled, 22:37950
  radioisotope heat sources for space vehicle, review of developments in, 22:14733
  radioisotope subliming solid system for space vehicle, design of low thrust, 22:37947(P)
  radioisotope thrusters for space vehicle, development of primary and auxiliary, 22:37939 (WASH-1095)
  radioisotopic nuclear power plants for space, analysis of propellant feed system for, 21:6149 (STL-517-0034(Vol.2))

  radioisotopic nuclear power plants for space, development of capsules and thrusters for, 21:6148 (STL-517-0034(Vol.1))
  reactors to supply power for electric, design of 10 MW(e) Rankine-cycle lithium-cooled uranium nitride (UN)-fueled, 22:30282 (UCRL-50382)
  research and development in U. S. aerospace, 24:3220
  research on non-chemical methods for space, review of, 23:31447 (CEA-Bib-140)
  review on colloid, for space vehicles, 22:13300
  space, conference on thermionic systems for, 23:27410 (EUR-4210)
  specific impulse in MHD, optimization of, (T), 24:28150
  system design for interstellar missions, fission- and fusion-reactor, 24:19917
  systems development for nuclear powered electric, 25:51206
  systems evaluation for space, gravitational losses in, (T), 22:25593
  thruster development for space, use of radioisotopes in, 22:246 (N-67-18580)
  use of cobalt-60 heat source for, in hydrospace, 21:1518 (AGN-8163(Vol.1))
PROPYL ETHER
  bremsstrahlung reactions with, yields of carbon-11-recoil-labeled products from, 24:38898 (IS-T-366)
  effects on γ-induced dimerization of 1,3-cyclohexadiene, solvent, 23:35163
  solvent properties for polonium-210 in presence of bismuth-210 in nitric acid, 21:19736
  electric discharge in, deuterium isotope effects on laser action from, 22:50982
Propyl Alcohol
  see 1-Propanol
PROPYL RADICALS
  structure of ionized, produced in gas-phase radiolysis of alkanes, 25:2290
PROPYL SULFIDE
  radiolysis at 77°K, yields from γ, 24:27112
PROPYLAMINE
  deamination of deuterated, isotope effects on cyclopropane formation in, 23:21719
  derivatives of, radioprotective effects of, on mice, 22:49391
  deuterium exchange and racemization of deuterated 9-methylfluorenyl compounds with, 22:27672
  deuterium exchange between N,N,9-trimethylfluorenecarboxamides and, in tetrahydrofuran, 22:27670
  effects on radioinduced polymerization of acrylonitrile at -78°C, 24:2239
  effects on separation of carbon-13 and oxygen-18 by chemical exchange of carbon dioxide with amine carbonate in methanol solutions, 22:133 (CU-755-4, Paper IIB)
  production by hydrolysis of uranium carbonitride, 24:16519
  racemization with N,N,9-trimethylfluorenecarboxamides in tetrahydrofuran, effects of dueterium on, 22:27670
  radiation effects on adamantane-containing, EPR spectral studies on free radicals produced from x, 25:6348
  radiolysis in adamantane matrix, EPR spectra of free radicals from, 24:36276
  radiolysis of, adsorbed on silica gel at 77°K, ESR studies on trapped radicals produced by γ, 25:41856
  radioprotective effects of, on survival of mice, effects of oxygen content on γ, 22:49391
  reactions with products of gamma radioinduced graft polymerization of N-phthalimide with polyethylene, 21:42971
  solvent properties for lithium, 21:22026
  vapor pressure of, effects of deuterium on, 22:10249
  yields from electron radiolysis of gaseous ammonia—propene, effects of dose on, 25:48553
  H_2O—propylamine, solvent properties for lithium, 21:22026
PROPYLAMINE, N,1-DIMETHYL-
  photoreduction of benzophenone by, 22:10213
PROPYLAMINE, 1-ETHYL-
  radiation effects on adamantane-containing, EPR spectral studies on free radicals produced from x, 25:6348
Propylamine, 2-Methyl-
  see Isobutylamine
PROPYLAMINE, N,N,1-TRIMETHYL-
  photoreduction of benzophenone by, 22:10213
Propylene
  see Propene
Propylene Glycol
  see 1,2-Propanediol
PROPYLENE OXIDE
  polymers with polyformaldehyde, radiation effects on, γ, 21:24002
  polymers, radiation chemistry of, 23:47463 (COO-1088-37)
  polymers, radiation chemistry of isotactic and atactic, at room and low temperature, 25:29144
  polymers, radiation effects on, ESR studies of γ, 23:250
  polymers, radiolysis of isotactic, ir and uv spectral studies on electron, 23:26266(R) (COO-1088-33)
  radiation effects on polymerization of, γ, 21:25886
  radiation effects on purified, 21:30440(R) (COO-1088-27)
  radiation effects on, at 77°K, ESR spectral studies on free radicals produced by electron, 22:8129
  radiation effects on, at 77°K, ESR studies of free radicals from electron, 22:42714(T) (AEC-tr-6937, pp 117-32)
  radioinduced polymerization in methylene chloride or 2-methyltetrahydrofuran, effects of additives on electron or γ, 22:51032
  radioinduced polymerization of glassy, at 4.2 and 77°K, γ, 23:33227
  radioinduced polymerization of liquid, under anhydrous conditions, γ, 22:8122
  radioinduced polymerization of liquid, under anhydrous conditions, 22:42707(T) (AEC-tr-6937, pp 54-8)
  radioinduced polymerization of solid, at 77 and 4.2°K, γ, 24:11623
  radioinduced polymerization of, effects of pressure on, 24:27121
  radioinduced polymerization with formaldehyde in carbon dioxide at 0°C, γ, 24:11561 (JAERI-5022, pp 53-8)
  radiolysis of clathrate hydrates of, stability of radicals from γ, 25:57476
  reactions with trialkyl- and trialkoxyboroxins, mechanism and products of, 22:22898 (MLM-1440)
  CO—propylene oxide, radioinduced polymerization of, ir spectral studies on products from γ, 23:26298
PROPYNE
  alpha-particle stopping power of gaseous, at 300 keV to 2 MeV, (E), 25:17265
  determination in products from radiolysis of gaseous ethylene, gas chromatographic method for, 25:2278
  deuterium exchange between water and deuterated, mass-spectrometric equilibrium studies on, 25:8241 (CU-755-7, Sect.3)
  deuterium exchange between water and, apparatus for measuring plate efficiencies for sodium hydroxide-catalyzed, 24:4259 (CU-755-6, Sect.7-B)
  deuterium exchange between water and, evaluation of dual-temperature system for, 21:3146(R) (NYO-755-3)
  deuterium exchange between water and, in dual-temperature system, 23:342 (CU-755-5, Sect. III)
  deuterium exchange reactions between water and, enrichment of water-d by, 22:135 (CU-755-4, Paper IIIB)
  deuterium exchange reactions between water and, enrichment of water-d by, 22:134 (CU-755-4, Paper IIIC)
  effects on γ-induced polymerization of methyl methacrylate, 24:27164
  effects on γ-radiolysis of methane, 22:27774
  electron capture by, deuterium isotope effects in dissociative resonance, 22:8050
  energy level transitions in, forbidden electronic, (E), 22:11193 (CALT-532-20)
  photoionization and absorption of, effects of deuterium on, 25:78
  photoionization of gaseous, effects of deuterium on cross sections and yields for, 24:27029 (ANL-7615, pp 218-26)
  photon absorption cross sections of gaseous, effects of deuterium on, 24:27029 (ANL-7615, pp 218-26)
  pyrolysis for carbon deposition on thorium dioxide spheres, thermodynamics of, 24:23510 (ORNL-4531)
  reactions at surface of liquid sodium at 110, 150, and 200°C, 25:51438
  reactions with deuterium or hydrogen at 77°K, ESR studies on, 24:31337
  reactions with deuterium, isotopic analysis of products from, 24:9241
  reactions with methane under simulated radiolysis conditions, mass spectrometric studies on, 25:34645
  solubility in glass, nylon, plastic, rubber, and silicon tubings, 24:4350 (CU-755-6, Sect.7-D)
  yields from γ radiolysis of methane, effects of ammonia, methanol, and 2-methylpropene on, 23:28905
  yields from radiolysis of 2-methylpropane, 22:8143
  yields from reactions of carbon-11 recoils with benzene, toluene, and p-xylene, 24:38898 (IS-T-366)
  yields of labeled, from reactions of carbon-11 recoil atoms with benzene, toluene, and xylene, 23:40758
  H_2O—propyne, deuterium exchange reactions in dual-temperature systems of, kinetic studies on, 24:46323
PROPYNE, 3,3,3-TRIFLUORO-
  force constants for deuterated and normal, amplitudes of vibration and shrinkage effects in, 21:3017
2-PROPYN-1-OL
  spectra of, effects of deuterium on internal rotation of microwave, 22:35799
PROSPECTING
  see also Aerial Surveying
  activation analysis for geochemical, developments in, 25:20949 (N-70-42813)
  book: Aspects and Perspectives of Nuclear-Geophysical Methods for Exploration and Prospecting of Natural Resources, 23:43406
  book: Gamma Spectrometry of Natural Environments and Formations, 25:32090(T) (TT-70-50092)
  book: Geophysical Apparatus, 25:474
  book: Geophysical Apparatus (Russian), 21:36143
  book: Methods of Prospecting for Uranium Deposits (In Russian), 25:34754
  book: Radiometric and Nuclear Geophysical Methods of Prospecting for Ore Deposits (In Russian), 25:6438
  conference on nuclear techniques for mineral, Krakow, Dec. 8 to 12, 1969, 25:41941 (STI/PUB-279)
  conference on unconventional methods for natural gas and petroleum, Dallas, Tex., Sept. 12 and 13, 1968, 25:34729
  equipment and method for determination of beryllium in ores using photoneutron reactions, 24:9513
  equipment and method for geophysical, using neutron well logging with pulse height discrimination, 25:8359(P)
  equipment and methods for uranium, in Canada, 23:35345
  equipment and methods for uranium, in Sweden, evaluation of radiometric, 25:29229
  equipment and methods for uranium, UK research and development on, 25:51640 (A/CONF.49/P-489)
  equipment for beryllium, thorium, and uranium minerals, in South Greenland, 23:13888
  equipment for underwater, remote gamma radiography of materials for, 24:48237
  equipment for, development of, 25:13321 (RISO-M-1270)
  equipment for, development of radiometric, 21:6318(T) (AEC-tr-6466/4)
  field equipment for, design and performance of, 21:36143
  gamma spectrometry method for thorium and uranium, in south Greenland, 23:35346
  geochemical method for copper, lead, uranium, and zinc ore, in Trentino-Alto Adige, Italy, 23:21830 (RT/GEO-(68)18)
  geochemical method for uranium, in surface waters, 23:35325
  instrumentation for airborne and ground uranium ore, description of radiation detection, 23:35502
  instruments for radioactive ore, radiometric, 25:57867
  method for nuclear, thermoluminescence, 23:43613
  method for ore, use of selective gamma-gamma well logging in drilling, 24:33782
  method for petroleum, using ground water radioactivity measurements, 24:16693
  method for seabed mineral, development of neutron source for, 25:34803(R) (BNWL-1308-5)
  method for undersea phosphorite, using submersible scintillation counter, 24:48177
  method for uranium ores in western Sicily, 22:40278
  method for uranium ores, statistical, 24:29398 (GJO-918-2)
  method for uranium, based on gamma intensity gradient measurements, 24:20905
  method for uranium, evaluation of pulsed neutron well logging, 25:57560 (INP-732)
  method for uranium, feasibility of using ground water composition in, 24:19109
  method for uranium, in Czechoslovakia, evaluation of deep gamma, 25:46570
  method for uranium, in silts and waters of Tuscany, Italy, 23:40897
  method for uranium, using airborne gamma spectrometers, 23:45418 (CONF-690815-1)
  methods for airborne, recent developments in, 24:44115
  methods for gas and petroleum, description of acoustic and pulsed neutron, 24:7521
  methods for locating deep uranium deposits in subvolcanic rocks, 24:36430
  methods for non-radioactive minerals, development of radiometric, 24:44108
  methods for petroleum, comparison of soil radioactivity mapping and soil redox mapping, 25:34731
  methods for petroleum, development of radiometric, 25:34730
  methods for precious metals using neutron activation, 23:49932 (TID-25169)
  methods for radioactive minerals, in Congo Republic, 24:44139
  methods for radioactive minerals, in Egypt, 24:44138
  methods for seabed minerals using californium-252 neutron source, 24:39139(R) (BNWL-1308-2)
  methods for shallow and medium depth uranium deposits, development of magnetotelluric, 25:29233
  methods for uranium, evaluation of aero-radiometric and hydrogeochemical, 24:19102
  methods for uranium, evaluation of radiometric, geochemical, and biogeochemical, 24:19101
  methods for uranium, in New Mexico, review of, 24:41453
  methods for uranium, in New Zealand, 23:31437
  neutron source for marine, properties of californium-252, 24:5821
  photoneutron methods for geochemical, 24:41420(T) (CSIRO-Trans-10084)
  radioisotopic methods for, 22:51091
  radiometric method for oil and gas, 21:8436
  radiometric methods for mineral, 23:9543
  reconnaissance data for uranium, 23:33276 (RME-4106)
  research at Tunisian CEA, 21:26066(R) (NP-16474)
  simulation of mineral, mathematical model for, 24:29397 (GJO-918-1)
  targets for uranium, in Uravan mineral belt, 23:31438
  use of cosmic radiation in, (T), 21:29069
PROSTAGLANDINS
  effects on blood platelets in arterioles of rabbit ears following laser-radioinduced endothelial trauma, 24:5997
  F/sub 2α/, structure of metabolites of, in human urine, tritium tracer study of, 23:33590
  radioimmunoassay in blood plasma of rabbits, 25:55144
PROSTATE GLAND
  blood flow through, of dogs, xenon-133 measurement of, 22:10694
  diseases of human, radiodiagnosis of, 24:34431
  diseases of human, radioisotope use in diagnosis and therapy of, 24:34434
  iodine-131 excretion by, of dogs after intravenous injection, 21:10811
  iodine-131-labeled diethylstilbestrol diphosphate accumulation in human, diagnostic use of, 22:10814
  metastases of carcinoma of, use of phosphorus-32 for control of pain associated with, 21:34718
  neoplasms in rat, induced by polonium-210, 21:4865
  phosphorus-32 scanning of bone metastases from cancer of, 21:28577
  plutonium deposition in, of employees and residents at Hanford, use of autopsy for determining, 21:6486 (BNWL-SA-918)
  radiation effects on secretory activity of, in rats, x, 25:13366
  radiodiagnosis of adenocarcinomas of, in man, use of strontium-85 photoscanning for, 22:51814
  radiodiagnosis of carcinomas of, in man, phosphorus-32 β, 22:38365
  radiodiagnosis of metastatic carcinomas of, 21:36633
  radioinduced inhibition of zinc-65 uptake by, of rats, effects of gonadotropic hormones and testosterone propionate on microwave, 21:22511
  radioinduced tumors in rat, effects of dose on incidence of proton, 21:16481
  radioinduced tumors in, of rats, 120 MeV proton, 22:23668
  radioinduced tumors of, in rats, protons, 21:13049
  radioisotope scanning of, in man, methods for, 23:50739
  radiotherapy of cancer of human, review of, 24:25539
  radiotherapy of carcinoma metastases from, by pituitary ablation, 21:16415

radiotherapy of carcinoma metastases from, by pituitary ablation, hazards of, 21:16394
radiotherapy of carcinoma metastases from, by use of phosphorus-32, 21:16378
radiotherapy of carcinoma of, in man, by x-irradiation of pituitary, effects of, on 17-hydroxycorticosteroid content of urine, 21:24645
radiotherapy of carcinomas of human, γ, 25:29597
radiotherapy of carcinomas of, evaluation of methods for, 21:6582
radiotherapy of carcinomas of, with bone metastases in man using parathormone and phosphorus-32, 25:24297
radiotherapy of neoplasms of, in dogs and man, use of cobalt-60, phosphorus-32 and tantalum-182 implants for, 22:15030
radiotherapy of neoplasms of, use of intrahypophysic implantation of yttrium-90 for, 21:22641
scanning of canine, use of metastable zinc-69-labeled zinc chloride for, 25:11204
scanning using zinc-65 or zinc-69, 23:26684
scintiscanning using fluorine-18, 23:6492
selenium-75-labeled selenomethionine content in dog, scintigraphy studies, 21:14675(T) (NP-tr-1495)
tritium-labeled testosterone metabolism in guinea pig, 21:17959
zinc-65 uptake by normal and malignant tissues of human, comparison of, 24:14407
zinc-65 uptake by rat, effects of castration and hypophysectomy on, 24:4551
zinc-65 uptake by, in baboons, effects of casein hydrolysate and zinc gluconate on kinetics of, 24:9745
zinc-65 uptake by, of baboons for determining blood circulation, 23:47925

Prostigmine
see Neostigmine

PROTACTINIUM
see also Actinides
abundance relative to uranium-235 in manganese nodules from Pacific Ocean, 25:51652
activity of, method of internal liquid scintillation counting with stabilization of solution for measuring, 23:625
alpha emission by, determination of activity from, in urine using sorption on glass fiber filter paper, 22:51633
atomic structure of, (E), 23:32144
behavior in molten-salt reactor systems, 21:23612(R) (ORNL-4037)
book: Analytical Chemistry of Protactinium, in Russian, 23:19652
book: Fundamentals of Metallurgy. Vol. 5. Minor, Noble, and Radioactive Metals. Transuranic Elements, 23:26986
chemical properties of, 21:8308
chemistry in thorium cycle, review on, 23:4604
chemistry of aqueous solutions of penta- and tetravalent, 22:50958
chemistry of perchloric acid solutions of, aqueous, 24:31455
chemistry of tetra- and pentavalent, review on, 23:26231
chemistry of, conference on, at Orsay, July 2-8, 1965, 21:8303
chemistry of, research on, 21:45082 (ORNL-4145, pp 260-1)
chemistry of, review of, 21:34276
chemistry of, review of, 22:50958
chemistry of, review on, 23:15865
chlorination in presence and absence of carbon, thermodynamics of, 23:43383 (JUL-565-CT)
chromatographic behavior of, in mixtures of hydrochloric or nitric acids in alcohols, 22:50974
complexes of, formation constants for, 21:8320
complexes of, with acetylacetone, formation of, 21:8312
complexes with 2,4-pentanedione in perchloric acid solutions, 22:30576
complexes with 2,4-pentanedione, distribution and stability constants for, 25:2202
complexes with 2,4-pentanedione, solvent extraction studies on distribution and formation constants of, 22:6388
complexes with citric acid, structure of, 22:40083
complexes with EDTA, stability constant for, 23:15852
complexes with orthophosphoric and trichloroacetic acids, solvent extraction method for calculating constants of, 22:6387
complexes with oxalates, spectra of, 23:28835
complexes with oxalates, stability of, 23:28835
complexes with phthalocyanine, preparation of, from corresponding uranium complex by elemental transformation, 24:48144
complexes with sulfate ions, solvent extraction studies on, using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 21:23894
complexes with tropolone, chemical properties and preparation of, 25:13009
complexes with TTA in perchloric acid solutions, spectral studies on, 23:40659
compounds of, analysis by anion exchange, 21:8418
compounds of, preparation and properties of, review on, 23:26231
compounds of, spectra of chemical bonds in, absorption, 23:15844
content in Caucasus neovolcanic rocks, age determination from, 22:18919
content in Pacific Ocean manganese nodules, 21:41042
content ratio to uranium-235 in neovolcanic rocks of Caucasus, use in age estimation, 23:21810
crystal structure of, effects of temperature on, 21:9167
crystal structure of, effects of temperature on, 21:9094
decay of, determination of products from, 23:28935
deposition from solutions by electroreduction, 21:14808
deposition on steel, 21:17730
determination by photometry using Arsenazo III or Chlorophosphonazo III, 23:24090
determination by polarographic method, 24:13751
determination by various methods, 23:19652
determination in biological materials by neutron activation techniques, 22:44972 (BNWL-SA-2010)
determination in deep-sea manganese nodules, 23:15811 (CU-3139-2, App.C)
determination in deep-sea manganese nodules, radiochemical, 25:23528
determination in deep-sea manganese nodules, radiochemical method for, 24:11451
determination in fuel reprocessing solutions, 25:8324(T) (ORNL-tr-2406)
determination in proton-irradiated protactinium-231, 22:16668
determination in St. Louis Residues, 25:51584(R) (MLM-1792)
determination in uranium milling process samples, radiochemical, 24:48040
determination in urine and whole body, 21:34276
determination of trace amounts of, in cements by neutron activation and radiochemical separation, 23:17379
determination of, in urine, radiochemical, 21:12277 (CONF-651008-, pp 1-19)
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, review of methods for, 21:34276
determination of, volumetric method for, 21:45 (CEA-R-3023)
diffusion coefficient in thorium oxide (ThO_2) and thorium oxide (ThO_2)—uranium oxide (UO_2), analysis of lattice, 22:48790
diffusion in quartz tube with temperature gradient, 24:2285
diffusion in sintered thorium dioxide and uranium dioxide at 1800 to 2000°C, 23:18259(R) (PNCT-AR-67)
diffusion in thorium dioxide and thorium dioxide—uranium dioxide solid solution, 22:15255
dissolution of, by hydrochloric and hydrofluoric acids, 21:9167
distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
distribution between liquid bismuth and lithium chloride, equilibrium, 24:46308 (ORNL-4548, pp 277-333)
distribution between liquid bismuth and molten fluorides, 24:36362
distribution between molten beryllium fluoride—lithium fluoride—thorium fluoride salt and bismuth—thorium alloy, 23:19693 (ORNL-4344, pp 109-99)
distribution between molten beryllium fluoride—lithium fluoride and liquid bismuth solution, chemistry and thermodynamics of, 25:39592
distribution between molten beryllium fluoride—lithium fluoride—thorium fluoride salts and liquid bismuth at 525 to 700°C, 24:266 (ORNL-4422, pp 1-47)
distribution in hydrofluoric acid—perchloric acid—sodium perchlorate—TBP and perchloric acid—TBP systems, spectral studies on, 23:47618
distribution in tetrabutyl pyrophosphate in mixture with mineral acids or tetrabutyl hypophosphate, 22:27853 (INP-591/C)
distribution of pentavalent and tetravalent, between amines and hydrochloric and sulfuric acid solutions, 21:8417
distribution of pentavalent and tetravalent, between ion exchangers and hydrochloric and sulfuric acid solutions, 21:8417
distribution of pentavalent and tetravalent, in various aqueous media, effects of complex formation on, 21:8320
distributions between liquid bismuth—uranium alloy and molten lithium fluoride—thorium fluoride system, 22:25374 (ORNL-4229, pp 22-49)
effects on separation of zirconium from molten fluorides by extraction into bismuth, 23:45182 (ORNL-4396, pp 129-209)
electromigration behavior of, in CDTA and EDTA, 25:57520 (JINR-E6-5952)
electronic structure of, 22:30531
energy levels of, determination of, by x-ray spectroscopy, 21:8316
entropy at 25°C, estimated, 24:20767
existence of anionic, paper chromatographic, electrophoretic, and ion-exchange studies on, 25:41786
extraction from molten salt reactor fuels, development of close-coupled system for, 25:18138 (ORNL-TM-3137)
fluorination by gaseous fluorine, hydrofluoric acid, or sulfur hexafluoride, behavior of carrier-free deposited protactinium-233 in, 23:11497
fluorination by gaseous fluorine, hydrofluoric acid, or sulfur hexafluoride, behavior of carrier-free protactinium-233 deposited by, 24:41248(T) (ORNL-tr-2350)
hydrolysis constant of pentavalent, second, 22:18756
hydrolysis of tetravalent, 22:30651(T) (UCRL-Trans-10243)
hydrolysis of tetravalent, in perchloric acid solutions, 22:18755
losses in fuel reprocessing, 22:33514
magnetic interaction integrals for Pa II, tables of, 22:29226
magnetic susceptibility of, 21:9167
melting point anomalies of, 21:26825
melting point of, 21:9094
melting point of, 21:9167
nuclear orientation in cesium zirconium chloride, (T), 23:49470
oxidation of tetravalent, in hydrochloric, nitric, perchloric, or sulfuric acid media, kinetics of, 24:38985 (NP-18348)
oxidation of trace amounts of tetravalent, in hydrochloric acid, rate of, 24:2192
oxidation potential for trivalent—tetravalent, 25:57437
phase formation in, studies of high-temperature fcc, 25:58291
polymerization of tetravalent, in perchloric acid solutions, 22:18755
precipitation as oxide from molten beryllium fluoride—lithium fluoride—thorium tetrafluoride—uranium tetrafluoride, 25:15726 (ORNL-4622, pp 199-225)
precipitation of pentavalent or tetravalent, as oxide from molten beryllium fluoride—lithium fluoride—thorium fluoride, 25:54532 (ORNL-4717, pp 1-27)
preparation of solid trivalent, by decomposition of protactinium pentaiodide, 22:8082
preparation of thin films of, by electrophoresis and electrospraying, 25:58183 (CONF-711002-, pp 160-5)
preparation of, by reduction of fluoride, 21:9167
preparation of, by reduction of fluoride using calcium, 21:9094
preparation of, for use as alpha source by extraction with isopropylphenyl ketone, 21:8392
preparation of, for use as alpha sources by electrodeposition on metals, 21:8391
proton fission at 10 MeV to 29 GeV, cross section for, 25:31326
purification by precipitation on lanthanum fluoride, 24:31468
purification of, 21:45082 (ORNL-4145, pp 260-1)
purification of, from natural sources by selective precipitation from oxalic-hydrochloric acid mixture, 21:8423
radiation effects on electric conductivity of α-, at low temperatures, self-, 25:11960
reactions in chloride volatility process for oxide fuel reprocessing, 24:9420 (BARC-405)
reactions with monobasic acids, association constants for complexing in, 21:19631
reactions with sulfuric acid, paper electrophoretic studies on complex formation in, 21:23894
redox potential of, in MSBR fuel solvent salt, 25:57298 (ORNL-4676, pp 73-138)
reduction by solid thorium in molten lithium fluoride—thorium fluoride system, 21:21918 (ORNL-4076, pp 1-54)
reduction by thorium in presence of iron surface, 22:25374 (ORNL-4229, pp 22-49)
reduction by titanium metal, 24:46307 (ORNL-4548, pp 93-186)
reduction of pentavalent to tetravalent, by electrolysis in hydrochloric and sulfuric acids, 21:45 (CEA-R-3023)
reduction of pentavalent to tetravalent, in hydrochloric and sulfuric acid solutions by zinc amalgam method, chemistry of, 21:42925
reduction of pentavalent, in acetonitrile and in aqueous solutions, polarographic, 24:13751
separation by solvent extraction, ion exchange, and electrophoresis, effects of halogen acids on, 23:17536
separation from acetate solutions of actinides using sodium amalgam, effects of oxidizing agents on, 23:17529
separation from acid solutions, comparison of amine extraction and ion-exchange sorption for, 21:45224
separation from acidic solutions by solvent extraction, effects of acetone and alcohols on, 22:40198
separation from actinium, thorium, and uranium, 22:16668
separation from airport cake waste, 25:21083(R) (MLM-1767)
separation from aqueous acid solutions by solvent extraction, 22:12414
separation from aqueous solutions by solvent extraction using long-chain amines, 21:17730
separation from aqueous solutions by solvent extraction using alkyl-substituted ammonium salts, 22:6376
separation from aqueous solutions by solvent extraction using 2,4-pentanedione, 24:39006
separation from aqueous solutions containing organic acids by solvent extraction using amines and quaternary ammonium compounds, 24:36367
separation from beryllium fluoride—lithium fluoride—thorium fluoride blankets by bismuth amalgam reduction, 21:35583(R) (ORNL-4119)
separation from carrier salt from MSBR, chemistry of reductive-extraction, 23:35270
separation from daughter nuclides, ion exchange process for, 24:5732
separation from elements 92 through 96 by paper chromatography in hydrochloric acid mixtures with alcohols, 22:51060
separation from fission products produced by proton irradiation of thorium at 51 MeV, method for, 24:14039
separation from fission products using sulfur hexafluoride and sodium fluoride beds, 22:33545
separation from fission products, thorium, and uranium by sorption on Vycor and elution with oxalic acid, 21:30502 (ORNL-3950)
separation from fuel for molten salt breeder reactor, 24:9277
separation from fused fluoride salt equilibrated with bismuth—thorium alloy, 23:45182 (ORNL-4396, pp 129-209)
separation from hydrochloric acid by solvent extraction using dibutyl carbamoylphosphonate, 24:39008
separation from hydrochloric, nitric, and sulfuric acids by solvent extraction using bis(2-ethylhexyl) phosphate, 22:33493
separation from impurities by various methods, 23:19652
separation from iron, niobium, and zirconium by precipitation using benzenearsonic acid, 23:402
separation from irradiated molten salt fuel by reductive extraction, 24:22731 (ORNL-4366, pp 41-98)
separation from irradiated oxide fuels by KFA-TBP 23/25 process, 23:38061
separation from irradiated thorium by sorption by glass, 22:8196
separation from irradiated uranium by sorption by glass, 22:8196
separation from metals in acetic or hydrochloric acid solutions by anion exchange, 24:48164
separation from molten beryllium fluoride—lithium fluoride—thorium fluoride mixtures by extraction using liquid bismuth, 23:38059

  separation from molten beryllium fluoride—lithium fluoride—thorium fluoride system by extraction using bismuth or bismuth—thorium alloy, 24:13998 (ORNL-4400, pp 31-56)
  separation from molten fluoride salts, 22:42828(P)
  separation from molten fluorides by extraction using bismuth, 23:19693 (ORNL-4344, pp 109-99)
  separation from molten fluorides by extraction using liquid bismuth, effects of chromium, iron, and thorium on, 21:21918 (ORNL-4076, pp 1-54)
  separation from molten fluorides by oxide precipitation on addition of zirconium oxide, 21:21918 (ORNL-4076, pp 1-54)
  separation from molten fluorides by reduction snd sorption on iron, 21:21918 (ORNL-4076, pp 1-54)
  separation from molten fluorides by reductive extraction using molten bismuth, 22:25374 (ORNL-4229, pp 22-49)
  separation from molten salt fuel, flow sheet for, 25:54712 (ORNL-4682, pp 1-38)
  separation from molten salt fuels by reductive extraction using liquid bismuth, 24:19050 (ORNL-4365, pp 21-61)
  separation from molten salt fuels by reductive extraction, 25:34694 (ORNL-TM-3138)
  separation from molten salts in molten salt breeder reactor, flowsheets for, 23:49895(R) (ORNL-4235)
  separation from molten salts in single-fluid MSBR by reductive extraction using thorium, 23:352 (ORNL-4272, pp 1-33)
  separation from molten-salt breeder reactor fuel, 23:19829 (ORNL-4344, pp 291-327)
  separation from molten-salt breeder reactor fuel, by extraction using liquid bismuth, 24:5712
  separation from molten-salt reactor fuel, 22:47204 (ORNL-4254, pp 241-78)
  separation from MSBR fuel, 24:266 (ORNL-4422, pp 1-47)
  separation from MSBR fuel by extraction using molten bismuth, 24:16486 (ORNL-4449, pp 96-163)
  separation from MSBR fuel by fluorination and reductive extraction, 25:57522 (ORNL-4676, pp 234-71)
  separation from MSBR fuel by fluorination—reductive extraction, 24:46308 (ORNL-4548, pp 277-333)
  separation from MSBR fuel by fluorination—reductive extraction, 25:2313 (ORNL-4572, pp 1-36)
  separation from MSBR fuel by oxide precipitation, 25:57522 (ORNL-4676, pp 234-71)
  separation from MSBR fuel by oxide precipitation, 25:54712 (ORNL-4682, pp 1-38)
  separation from MSBR fuel by reductive extraction, 23:49896(R) (ORNL-4364)
  separation from MSBR fuel by reductive extraction using thorium and liquid bismuth, 24:36355 (ORNL-4586, pp 50-66)
  separation from MSBR fuel, flowsheet analysis for, 24:16625 (ORNL-4449, pp 214-47)
  separation from MSBR molten fluorides by precipitation as oxide, 25:39587
  separation from MSRE fuel by reductive extraction by bismuth, 22:47112 (ORNL-4254, pp 88-173)
  separation from neptunium by sorption on glass, 24:19018
  separation from neutron-irradiated colloidal thorium hydroxide by recoil, 22:48895 (CEA-R-3493)
  separation from niobium, 24:31468
  separation from niobium in lithium citrate solution, amalgamation method for, 24:14009
  separation from niobium, tantalum, and zirconium by precipitation using hydrogen peroxide, 22:37849
  separation from niobium, tantalum, and zirconium by precipitation with alkali-containing tartaric acid solutions, 23:35287
  separation from niobium, tantalum, and zirconium in hydrochloric acid and oxalic acid solutions by solvent extraction using tetraphenylphosphonium chloride, 24:44084
  separation from nitric acid solutions by solvent extraction using dibutyl ester of carbamoylphosphoramidic acid, 23:38035
  separation from nitric acid solutions by sorption on Vycor, 21:30502 (ORNL-3950)
  separation from nitric acid—sulfuric acid solution by solvent extraction using tridodecylamine, 22:25455 (CEA-N-616, pp 295-368)
  separation from other actinides by ion exchange on anionite AV-17, 25:34695(T) (ORNL-tr-2397)
  separation from other actinides in hydrochloric or nitric acid, paper chromatographic and electrophoretic study of, 22:37832 (CEA-R-3411)
  separation from other elements by solvent extraction using trioctylamine, 24:31463
  separation from other metals in hydrofluoric acid—organic solvent media by ion exchange on Dowex 50 x 8, 22:10341
  separation from oxalic and tartaric acids by solvent extraction using tributylamine, 25:57546
  separation from perchlorate solutions by solvent extraction using thenoyltrifluoroacetone, 22:30651(T) (UCRL-Trans-10243)
  separation from perchloric acid by solvent extraction with TTA, 22:30661
  separation from perchloric acid by solvent extraction using benzene solutions of 4-methyl-2-pentanone and 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 24:16663
  separation from perchloric acid solutions by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, effects of 1-pentanol on, 21:19631
  separation from perchloric acid solutions by solvent extraction using benzene—TTA, effects of 2,6-dimethyl-4-heptanol on, 24:31455
  separation from perchloric acid solutions by solvent extraction using benzene—TTA, synergistic effects of 2,6-dimethyl-4-heptanol on, 24:5709
  separation from perchloric acid solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 25:46556
  separation from perchloric acid solutions by solvent extraction using 2,4-pentanedione, 22:30576
  separation from plutonium by solvent extraction using triisooctylamine, 21:25908
  separation from rare earths and uranium in spent molten fluoride fuels, 24:4360(P)
  separation from single-fluid molten-salt breeder reactor fuel by extraction using liquid bismuth, 23:19829 (ORNL-4344, pp 291-327)
  separation from single-fluid MSBR fuel salt by fluorination-reductive extraction, 25:15726 (ORNL-4622, pp 199-225)
  separation from single-fluid MSBR fuel salt by reductive extraction with thorium in molten bismuth, 23:45182 (ORNL-4396, pp 129-209)
  separation from single-fluid MSBR fuels, 23:45369 (ORNL-4396, pp 269-301)
  separation from single-fluid MSBR fuels by reductive extraction method, 23:45369 (ORNL-4396, pp 269-301)
  separation from single-fluid MSBR, system performance calculations for, 25:34694 (ORNL-TM-3138)
  separation from spent molten fluoride fuels by liquid—liquid extraction, 24:4361(P)
  separation from spent molten fluoride fuels using bismuth—tin solution, 24:19062(P)
  separation from spent Molten Salt Breeder Reactor fuel, 22:6383
  separation from spent molten salt reactor fuels by selective reduction and extraction using molten bismuth, 25:41903(P)
  separation from sulfuric acid systems with hydrobromic acid or potassium iodide by solvent extraction using benzene, 22:16658
  separation from tantalum by cation exchange in alcohol—sulfuric acid solvents, 24:44086
  separation from thorium, 22:6382
  separation from thorium and its compounds by volatilization, 24:41248(T) (ORNL-tr-2350)
  separation from thorium and uranium by anion exchange in nitric acid, effects of acetic acid on, 24:48154
  separation from thorium and uranium by extraction chromatography using Aliquat-336—hydrochloric acid, 23:38031
  separation from thorium and uranium fuels during reprocessing, methods for, 24:22732(T) (ORNL-tr-2259)
  separation from thorium anion exchange, 22:2175 (NP-17077)
  separation from thorium by extraction chromatography, 25:46544
  separation from thorium by ion exchange, 23:9658
  separation from thorium by ion-exchange chromatography, 23:31392
  separation from thorium by paper chromatography in hydrochloric acid mixtures with alcohols, 22:51060
  separation from thorium by solvent extraction using 2,4-dimethyl-3-pentanone, 21:32229
  separation from transuranium elements and uranium by gas chromatography using aluminum chloride—inert gas carrier, 24:46294(T) (ANL-Trans-843)
  separation from transuranium elements by gas chromatography of chlorides, 24:33777
  separation from two-fluid molten salts in MSBR by reductive extraction using bismuth, 23:352 (ORNL-4272, pp 1-33)
  separation of actinium from, by amalgamation, 21:8420
  separation of americium from, by ion exchange, 25:51395
  separation of carrier-free, from neutron-irradiated thorium by solvent extraction using N-benzoylphenylhydroxylamine, 21:8424
  separation of fission product, from molten-salt fuels, 21:23612(R) (ORNL-4037)
  separation of tetra- and pentavalent, by coprecipitation with thorium fluoride and other compounds, 22:8177
  separation of trace amounts of, by solvent extraction using 8-quinolinol in chloroform, 21:43038
  separation of trace amounts of, from thorium and uranium fuels during reprocessing, equipment and method for, 24:22733(T) (ORNL-tr-2260)
  separation of, by solvent extraction using derivatives of hydroxylamine, 21:8424
  separation of, from acid and alkaline media by complexing with benzohydroxamic acid, benzoylphenylhydroxylamine, and neocupferron, 21:8415
  separation of, from aqueous solutions by solvent extraction using tributyl phosphate, 21:8414
  separation of, from aqueous solutions by solvent extraction using 8-quinolinol and its halo derivatives, 21:10417 (KFK-432)
  separation of, from citrate solutions by solvent extraction using Aliquat 336, 21:14295
  separation of, from daughter nuclides and other elements by solvent extraction using diisobutyl ketone, 21:4608
  separation of, from daughters in hydrofluoric acid by anion exchange, 21:8418
  separation of, from decay products by absorption on glass wool, 21:8422
  separation of, from decay products by hydrolysis, 21:8422
  separation of, from decay products by residue adsorption and selective desorption, 21:8422
  separation of, from fission products, thorium, and uranium by precipitation from fused salts, 21:10428
  separation of, from hydrochloric acid solutions by solvent extraction using 2,6-dimethyl-2-heptanol, 21:4613
  separation of, from hydrochloric acid solutions by solvent extraction using thenoyltrifluoracetone in benzene, effects of various solvents on, 21:10425
  separation of, from iron, radium, thorium, and uranium by ion exchange, 21:15987
  separation of, from niobium and tantalum by cation exchange in hydrobromic acid solutions, 21:8427
  separation of, from niobium by selective precipitation from oxalic—hydrochloric acid mixture, 21:8423
  separation of, from niobium in hydrofluoric acid by anion exchange, 21:8418
  separation of, from other elements, 21:8483
  separation of, from other elements in acid media by solvent extraction using benzenearsonic acid in isoamyl alcohol, 21:8421
  separation of, from proton-irradiated thorium by extraction, 21:8391
  separation of, from sulfuric acid by solvent extraction using trilaurylamine, 21:8322
  separation of, from thorium by thermal diffusion, 21:8419
  separation of, from thorium in hydrofluoric acid by anion exchange, 21:8418
  separation of, from urine, ion-exchange, 21:12277 (CONF-651008-, pp 1-19)
  separation of, from various acid solutions by solvent extraction using trilaurylamine in xylene, 21:8425
  separation of, review of methods for, 21:34276
  separation of, survey on methods for, 21:24098
  solubility in alpha thorium at 25 and 1300°C, 25:4791
  solubility in bismuth, 23:45369 (ORNL-4396, pp 269-301)
  solubility in liquid bismuth at 450 to 817°C, 24:266 (ORNL-4422, pp 1-47)
  solubility in liquid bismuth at 600°C, 24:5712
  sorption by manganese dioxide from nitric acid, 22:157
  sorption of pentavalent, in hydrofluoric acid on cation exchangers, 21:8418
  sorption of, on activated charcoal saturated with benzenearsonic acid, 21:8421
  spectra of electron-excited, relative intensities of L x-ray lines in, (E), 24:8324(T) (UCRL-Trans-10422)
  spectra of pentavalent, in hydrofluoric acid, Raman and absorption, 21:8319
  spectra of tetravalent, in hydrochloric acid solutions, 21:14221
  spectra of tetravalent, in molten fluorides, 25:15625 (ORNL-4622, pp 60-118)
  spectra of, bibliography on analyses of optical, 24:30142 (NBS-SPEC. PUBL-306-4)
  spectra of, emission, from 3 μ to 4000 A, (E), 23:3599
  spectra of, in deuteriated ammonium fluoride and heavy water, absorption, 21:15906
  spectra of, in sulfuric acid, effects of source on ultraviolet, 21:8322
  spectra of, survey of, 22:45918 (AERE-R-5731)
  spectrum emitted from electrodeless discharge tube, second, (E), 21:31241
  stability of aqueous perchloric acid solutions of, in benzene—TTA solutions, spectral studies on, 23:40659
  stability of tetravalent, in molten beryllium fluoride—lithium fluoride—thorium fluoride, 25:54532 (ORNL-4717, pp 1-27)
  structure of, valence electron, 21:45135
  use of, in age estimation of marine sediments, 21:8483
  x-ray energies of, K, (E), 25:14981 (IN-1448)
  x-ray fluorescence yields for, L-shell, (E), 22:44685
PROTACTINIUM ALLOYS AND SYSTEMS
  C—Pa, phase studies, 22:31471
  F—O—Pa, phase studies and thermodynamics of, 23:11497
  F—O—Pa, phase studies and thermodynamics of, 24:41248(T) (ORNL-tr-2350)
  Pa—Th, phase studies, 23:26984 (BMwF-FBK-68-56)
  Pa—Th, phase studies of, 25:45113 (EUR-4325)
  Pa—Th, preparation of, method for small scale, 23:18268 (BMwF-FBK-68-35)
  Pa—Th-base, crystal structure of, 25:4791
PROTACTINIUM BROMIDES
  complexes of, with acetonitrile, preparation and properties of, 21:14190
  complexes of, with acetonitrile, preparation and properties of, 21:14191
  complexes of, with substituted ammonium and phosphonium compounds, preparation and properties of, 21:14190
  complexes with hexamethylphosphoric triamide and triphenylphosphine oxide, preparation, properties, spectra, and structure of, 24:16527
  crystal structure of, 22:16515
  crystal structure of, 25:34610
  crystal structure of β-PaBr$_5$, 23:45276
  dissolution in hydrochloric acid solutions, thermodynamics of, 24:22646
  preparation and properties of PaBr$_4$, 21:30423
  preparation, properties, spectra, and structure of PaBr$_5$, 24:16510
  reactions with sodium N,N-diethyldithiocarbamate, 25:34568
  reactions with tetraethylammonium chloride or triphenylphosphine oxide in anhydrous ethanol, acetonitrile, or dichloromethane, products from, 25:15577
PROTACTINIUM CARBIDES
  preparation of, 25:45113 (EUR-4325)
  production by reduction of protactinium pentoxide with carbon at 1000 to 2200°C, 23:37941
  thermodynamic properties of, review of, 21:39683 (LA-DC-8881)
Protactinium Cesium Chlorides
  see Cesium Protactinium Chlorides
PROTACTINIUM CHLORIDE FLUORIDES
  preparation and properties of, 23:40629
PROTACTINIUM CHLORIDES
  see also Cesium Protactinium Chlorides
  complexes of, reaction of, with nitrogen pentoxide, 21:8309
  complexes of, with acetonitrile, preparation and properties of, 21:14191
  complexes of, with cesium, preparation and properties, 21:14191
  complexes of, with phosphine oxide, preparation of, 21:8304
  complexes of, with substituted ammonium compounds, preparation and properties of, 21:14191

  - complexes with dimethyl sulfoxide, stability, properties, and infrared spectra of, 22:16522
  - complexes with hexamethylphosphoric triamide and triphenylphosphine oxide, preparation, properties, spectra, and structure of, 24:16527
  - complexes with nitrosyl chloride, preparation and properties of, 24:2189
  - crystal structure of $PaCl_5$, 21:8305
  - crystal structure of $PaCl_5$, 21:10346
  - dissolution in hydrochloric acid solutions, thermodynamics of, 24:22646
  - preparation and properties of $PaCl_4$, 21:30423
  - preparation of $PaCl_5$, 21:8305
  - reactions of, with nitrogen pentoxide, 21:8309
  - reactions with nitrosyl chloride, spectral and thermal studies on product of, 23:4616
  - reactions with sodium N,N-diethyldithiocarbamate, 25:34568
  - reactions with tetraethylammonium chloride or triphenylphosphine oxide in anhydrous ethanol, acetonitrile, or dichloromethane, products from, 25:15577
  - spectra of, effects of solvents on visible and uv, 21:45112
  - thermodynamic parameters for, 23:37938
  - thermodynamic properties of, 23:28786 (NP-17906)
  - vapor pressure of, 22:2018(R) (BMwF-FBK-67-76)
  - vapor pressure of anhydrous, at 500 to 600°K, 23:28786 (NP-17906)
  - vapor pressure of $PaCl_5$ at 500 to 600°K, 23:37938
  - volatilization in tube with temperature gradient, 24:25059
- PROTACTINIUM FLUORIDE SULFATES
  - preparation of $PaF_2SO_4.2H_2O$, 21:8310
- PROTACTINIUM FLUORIDES
    - see also Ammonium Protactinium Fluorides
    - see also Lithium Protactinium Fluorides
    - see also Potassium Protactinium Fluorides
    - see also Rubidium Protactinium Fluorides
    - see also Sodium Protactinium Fluorides
  - crystal structure of, 21:8310
  - crystal structure of PaF_4, 21:15906
  - preparation and properties of, 23:40629
  - preparation of, 21:8310
  - preparation of hydrates of, 25:12978
  - preparation of Pa_4F_{17}, by reaction of protactinium pentoxide with hydrogen fluoride and hydrogen at 500°C, 21:8310
  - properties of PaF_4, 21:30423
  - spectra of, infrared, 21:8310
  - stability in molten salt reactor fuel, 23:37958
  - structure of, 23:13712
  - thermodynamics of, 23:11497
  - alkali metal fluorides—PaF_5, preparation and structure of, 22:30555
  - KF—PaF_4, preparation and structure of, 22:30555
  - LiF—PaF_4, preparation and structure of, 22:30555
  - LiF—PaF_4—ThF_4, phase studies of slowly cooled, 21:21918 (ORNL-4076, pp 1-54)
  - NaF—PaF_4, preparation and structure of, 22:30555
  - PaF_4—RbF, preparation and structure of, 22:30555
- PROTACTINIUM HALIDES
  - book: Halides of the Lanthanides and Actinides, 23:9398
- PROTACTINIUM HYDROXIDES
  - precipitation from oxalate solutions of protactinium(V), 23:28835
  - reactions of, with nitrogen pentoxide, 21:8309
  - solubility in oxalic acid, 21:35975
- PROTACTINIUM IODIDES
  - complexes of, with acetonitrile, preparation and properties of, 21:14191
  - decomposition of PaI_5, preparation of protactinium(III) by, 22:8082
  - determination in carbonates by ion exchange and alpha spectrometry, 22:6271
  - dissolution in hydrochloric acid solutions, thermodynamics of, 24:22646
  - preparation and properties of PaI_4, 21:30423
  - preparation, properties, and spectra of, 22:2055
- PROTACTINIUM IONS
  - radii in fluorides and oxides, 24:188
  - spectra and structure of, continuities in, 23:19735
- PROTACTINIUM ISOTOPES
  - alpha decay of, 21:10058
  - beta decay, 22:20975(R) (BMwF-FBK-67-89)
  - content in soils, use as tracer for geochemical processes, 24:39045
  - content of wastes from reactor fuel operations, 23:2829
  - cross section measurements of, nondestructive and destructive methods of analysis used in fabrication of targets for, 25:57345 (CONF-711002-, pp 293-306)
  - decay properties of, tables and charts on, (E), 22:7723
  - determination in reactor fuels by mass spectrometric and radiochemical methods, 24:25007 (WCAP-6086)
  - determination in water, review on methods for, 23:26176
  - neutron capture cross section calculations using revised mass formula, fast, (T), 22:30021
  - production and properties of, 24:29308(R) (BMBW-FBK-70-4)
  - production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
  - reactions of recoil atoms of, with cobalt complexes with 2,4-pentanedione, 23:286
- PROTACTINIUM ISOTOPES Pa-222
  - alpha decay of, α spectra and half-life for, (E), 25:12592
  - decay products of, energies, intensities, and half-lives of alpha, (E), 25:28304 (CERN-70-30(Vol.1), pp 545-6)
- PROTACTINIUM ISOTOPES Pa-223
  - alpha decay of, α spectra and half-life for, (E), 25:12592
  - decay products of, energies, intensities, and half-lives of alpha, (E), 25:28304 (CERN-70-30(Vol.1), pp 545-6)
- PROTACTINIUM ISOTOPES Pa-224
  - alpha decay of, α spectra and half-life for, (E), 25:12592
  - decay products of, energies, intensities, and half-lives of alpha, (E), 25:28304 (CERN-70-30(Vol.1), pp 545-6)
- PROTACTINIUM ISOTOPES Pa-225
  - alpha decay of, α spectra and half-life for, (E), 25:12592
  - decay products of, energies, intensities, and half-lives of alpha, (E), 25:28304 (CERN-70-30(Vol.1), pp 545-6)
- PROTACTINIUM ISOTOPES Pa-228
  - electron-capture decay of, conversion-electron spectra from, (E), 25:50727
- PROTACTINIUM ISOTOPES Pa-230
  - alpha decay of, 21:10058
  - beta and electron-capture decay of, electron, gamma, and x-ray spectra from, (E), 25:59800
  - beta and electron-capture of, γ singles and β-γ coincidence spectra from, (E), 25:38980 (INR-P-1251)
  - beta decay of, beta and gamma spectra and Q and log ft values for, (E), 24:52580
  - beta decay of, branching ratios and log-ft and Q values for, (E), 25:59800
  - electron-capture decay of, branching ratios and log-ft and Q values for, (E), 25:59800
  - electron-capture decay of, conversion electron spectra from, (E), 25:31339
  - electron-capture decay of, γ spectra from, (E), 24:20391
  - electron-capture decay of, Q value for, (E), 25:53743(R) (INR-1318)
- PROTACTINIUM ISOTOPES Pa-231
  - abundance ratio to thorium-230, dating of deep sea cores by, 23:15985 (CU-3139-2, App.E)
  - abundance relative to thorium-230 in deep-sea sediments, age estimation from, 24:44095(R) (ORO-3622-9)
  - abundance relative to uranium-235 in volcanic rocks, 24:44110
  - activity relative to uranium-235 in Mexican bones, age estimation from, 23:49939
  - alpha decay of, α and γ singles and coincidence spectra for, (E), 23:46988 (NP-17967)
  - alpha decay of, α-γ angular correlations from, (E), 25:46079
  - alpha decay of, conversion—electron and γ spectra for, (E), 22:42019(R) (MLM-1494)
  - alpha decay of, conversion-electron and γ spectra for, (E), 22:42043
  - alpha decay of, gamma energies from, 22:25440(R) (MLM-1443)
  - alpha decay of, gamma spectra from, (E), 25:14998
  - alpha decay of, γ and conversion electron spectra from, (E), 24:6887(T) (MLM-1692(tr))
  - alpha decay of, γ singles and α—γ coincidence spectra for, 23:15479
  - alpha decay of, γ spectra from, (E), 25:1751
  - alpha decay of, possible explanations for forbidden, (T), 25:50732
  - alpha spectra of, energies of intense lines in, (E), 22:35357
  - analysis for niobium, mass-spectrometric, 22:14431 (ORNL-4196, pp 59-62)
  - analysis of proton-irradiated, for actinium, protactinium, thorium, and uranium, 22:16668
  - atomic mass of, 24:41269
  - bromine-79 reactions (Br-79,xn) at 400 to 480 MeV, calculation of cross sections for, (T), 22:1690
  - bromine-81 reactions (Br-81,xn) at 420 to 500 MeV, calculation of cross sections for, (T), 22:1690
  - content in Indian and Pacific Oceans, use in determination of sedimentation rate, 23:17629
  - content in Pleistocene shells, open system model for radioactive age estimation using, 22:6463
  - content in young volcanic rocks, use in age estimation, 23:9545
  - content of Indian rainwater during 1965, 23:463
  - content of, in Pacific Ocean, 21:4634
  - content of, in sandstone-type uranium deposits, in McKinley County, New Mexico, 21:12540
  - content ratio with thorium-230 in ocean sediments, use for age estimation, 22:45180(R) (ORO-3622-2)
  - conversion-electron spectra of, M-shell, (E), 21:4295
  - decay schemes for, 22:43320
  - deposition of tracer, using ammonium chloride—ammonium fluoride system with zirconium carrier, electrolytic, 21:36062
  - desorption from glass using hydrochloric acid—2-propanol, 23:43291(R) (MLM-1603)
  - determination in pitchblende using solvent extraction and ion exchange, 22:37676
  - determination in uranium deposits by α spectrometry, 23:24110
  - determination in urine, radiochemical method for, 22:44970 (AERE-AM-103)
  - determination of, in urine, radiochemical, 21:12278 (CONF-651008-, pp 20-34)
  - determination relative to uranium-235 in rocks by neutron activation and α spectrometry, 24:142
  - diffusion in polycrystalline α-thorium at 690 to 910°C, 21:24764
  - distribution in human tissues following accidental inhalation, 22:43320
  - distribution in Pacific Ocean, 25:54810
  - distribution in Pacific Ocean manganese nodules, effects on nodule growth rate of, 21:41042
  - energy level scheme from neptunium-235 and thorium-231 decays, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy levels of, Coriolis interaction in Nilsson band, (E/T), 23:34787
  - energy-level transition in, nuclear current parameter for internal conversion of 84.2-keV, 25:56797
  - energy-level transition in, nuclear structure effects in particle parameters for 84.2-keV, (E/T), 23:44939
  - energy-level transitions from thorium-231 β decay, (E), 22:20575 (NP-17285)
  - energy-level transitions from thorium-231 decay, conversion coefficients and multipolarities of, (E), 22:16014 (NP-17208)
  - energy-level transitions from thorium-231 decay, internal conversion coefficients for, (E), 21:27602
  - energy-level transitions in, K, L, and M conversion coefficients for E1, (T), 21:31789
  - energy-level transitions in, L-shell internal conversion studies of 58.5-keV, (E), 22:44685
  - fluorination of, 23:2378 (ORNL-4224)
  - gamma spectrum of, using lithium-drifted germanium detector, 21:40959(R) (MLM-1399)
  - geochemistry of, studies of marine, 25:26399 (TID-25674)
  - half-life and type of decay of, 22:42698
  - half-life of, microcalorimetric method for determining, 23:40051
  - half-life, (E), 22:14030
  - metabolism, use of whole-body counters to study, 22:43300 (AERE-PR/HPM-12)
  - Moessbauer effect in, 21:15876 (DP-MS-66-68)
  - Moessbauer effect in protactinium oxides, 23:7060
  - neutron cross sections and resonance parameters at 0.001 eV to 15 MeV, data sets for, 22:16001 (GA-7462)
  - neutron fission at 0.1 to 3.0 MeV, power-series fits to fragment angular distributions from, (T), 25:43888 (LA-4648)
  - neutron fission at 14.7 Mev, mass yields from, (E), 21:1111
  - neutron fission at 14.8 MeV, delayed neutron yields from, (E), 25:34150
  - neutron fission at 140 to 1300 keV, angular distribution of fragments from, (E), 24:8901
  - neutron fission at 15 MeV, A = 131 through 135 mass yields for, 24:1845
  - neutron fission at 3 and 14.8 MeV, cross section and fragment cumulative yields from, (E), 23:40052
  - neutron fission in reactor spectrum, mass and neutron yields for, (E), 25:3656
  - neutron fission in reactor spectrum, mass distribution in, (E), 23:1886
  - neutron fission of, characteristics for s- and p-neutrons, (T), 23:28317
  - neutron fission of, delayed neutron yields from, (E), 24:52614
  - neutron fission of, fragment kinetic energies from fast, (E), 21:30007
  - neutron fission of, yields of rare earths in fast, (E), 23:1893
  - neutron reactions at thermal energies to 10 MeV, evaluation of data on, (T), 25:15128
  - neutron reactions with, calculations on production of thorium-228 and uranium-232 from, 25:15699
  - neutron reactions with, microscopic nuclear data and five-group cross sections for, (E/T), 25:23019 (EURFNR-862)
  - neutron reactions with, production of uranium-232 in thermal, 23:24210 (ANL-7486)
  - occurrence in manganese nodules of deep-sea sediments, 21:3199
  - production by irradiation of thorium-230 in thermal reactor, 23:24210 (ANL-7486)
  - production by neutron irradiation of thorium, 23:31392
  - production by neutron irradiation of thorium-230 and thorium-232 mixtures, 25:57479 (BMBW-FBK-71-6)
  - production by thermal neutron irradiation of thorium-230—thorium-232 mixtures, 24:31599
  - production from airport cake residues by acid leach process, 25:51584(R) (MLM-1792)
  - production in high burnup power reactor fuels, effects of reactor type and cycle management on, 24:18666
  - production of, use of solvent extraction processes in, 24:9445
  - proton reactions at 44 and 63 MeV, spectra of alpha-emitting products from, (E), 24:48065 (ORNL-4581, pp 28-61)
  - purification, 21:4608
  - purification of, 22:6382
  - purification of, by anion exchange, 21:8310
  - radiation dose from, in puncture wounds in man, 23:24652
  - removal from laboratory personnel, using DTPA, 22:40514 (CONF-670965-2)
  - separation from daughters and iron carrier by ion exchange, 23:38036
  - separation from irradiated fuels, 25:13100
  - separation of, from ocean water by precipitation, mechanism of, 21:4494
  - sorption of, from acid solutions by silica gel, 21:8321
  - use in ratio with thorium-230 for measuring growth rates in manganese nodules, 22:16390 (COO-1540-8)
- PROTACTINIUM ISOTOPES Pa-232
  - beta decay of, branching ratios, conversion electron and gamma spectra, and log-ft and Q values for, (E), 25:59798
  - beta decay of, β—γ coincidence spectra from, (E), 25:38978 (INR-P-1232)
  - beta decay of, γ singles and coincidence spectra from, (E), 24:30847
- PROTACTINIUM ISOTOPES Pa-233
  - accumulation in tissues of crabs and mussels, 24:7717
  - activity measurements in fuels to determine neutron flux, 24:48863 (SGAE-PH-98/1970)
  - behavior of carrier-free deposited, in fluorination of protactinium, 23:11497
  - behavior of carrier-free, deposited from protactinium by fluorination, 24:41248(T) (ORNL-tr-2350)
  - beta decay of, Auger and Coster—Kronig spectra from, (E), 23:6878
  - beta decay of, Auger, conversion-electron, and γ spectra from, (E), 22:3744
  - beta decay of, gamma spectra and half-life for, (E), 25:14981 (IN-1448)
  - beta decay of, γ spectra from, (E), 21:42626
  - beta decay of, KLL Auger electron spectra from, (E), 23:4034
  - bromination of, with various carriers at high temperatures, 21:8307
  - chlorination of, with various carriers at high temperatures, 21:8307
  - content in animal tissue, methods for determination of, 21:34239
  - decay of, uranium-233 energy-level transitions from, (E), 21:7772 (TID-23362)

  deposition of tracer, using ammonium chloride—ammonium fluoride system with zirconium carrier, electrolytic, 21:36062
  determination in acid solutions by solvent extraction and gamma spectrometry or beta counting, 22:7985 (AERE-AM-105)
  determination in biological and environmental samples by gamma-ray spectrometry, 23:769 (ANL-7360, pp 68-149)
  determination in biological materials, effects of dry ashing on, 23:47388
  determination in incinerator ash by gamma spectrometry, 24:38764
  determination of, 24:38703
  diffusion in thorium dioxide and uranium dioxide, factors affecting, 23:41733
  distribution in organs and tissues of rats, effects of chelating agents on, 25:23963(T) (AEC-tr-7195, pp 136-46)
  distribution of, in rats following endotracheal, oral, and subcutaneous administration, 21:8741
  effects on blood cells and life span of rats following intravenous administration, 25:24321(T) (AEC-tr-7195, pp 314-29)
  effects on morphology of organs in rats following intravenous administration, injurious, 25:24322(T) (AEC-tr-7195, pp 330-8)
  energy level at 86.6 keV from neptunium-237 decay, lifetime of, (E), 25:43895
  energy levels from alpha decay of neptunium-237 and beta decay of thorium-233, excited, (E), 24:26635 (JEN-209-DF/1-61)
  energy levels from decay of neptunium-237 and thorium-233, (E), 23:28281
  energy levels from decay of neptunium-237 and thorium-233, spin—parity assignments for, (E), 23:32938
  energy levels from neptunium-237 decay, (E), 22:39638 (UCRL-17989, pp 1-41)
  energy levels from neptunium-237 decay, reduced transition probabilities for, (E/T), 23:52143 (UCRL-18667, pp 1-64)
  energy levels from thorium-233 decay, (E), 24:30813
  energy levels of, Coriolis interaction in Nilsson band, (E/T), 23:34787
  energy levels of, lifetime measurements using delayed coincidence technique, (E), 22:11950(R) (ORO-3624-1)
  energy-level transitions from thorium-233 decay, (E), 22:37365
  energy-level transitions from thorium-233 decay, (E), 22:44719
  energy-level transitions in, K, L, and M conversion coefficients for E1, (T), 21:31789
  gamma spectra, (E), 22:9859
  gamma spectra, (E), 25:17861 (IN-1448(Rev.))
  isomeric transition from neptunium-237 decay, half-life for, (E), 22:37371
  metabolism by rats, effects of method of administration on, 23:22154(T) (AEC-tr-6944, pp 35-43)
  neutron absorption resonance integrals and parameters, (E), 21:21525
  neutron capture by, cross section and resonance integral for thermal, (E), 24:38220 (WAPD-TM-837)
  neutron capture cross section and resonance integral for, measurements of thermal, (E), 23:4017
  neutron capture cross section for, thermal, (E), 24:22152 (WAPD-TM-814)
  neutron capture cross section of, measurement using neutrons from underground nuclear explosions, (E), 21:7770 (LA-DC-7864)
  neutron capture resonance integral for, (E), 24:22152 (WAPD-TM-814)
  neutron capture resonance integral, (E), 21:42620
  neutron capture resonance integral, (E), 22:3701 (WAPD-TM-612)
  neutron cross sections and resonance parameters at 0.001 eV to 15 MeV, data sets for, 22:16001 (GA-7462)
  neutron cross sections of, evaluated data for, 21:5528 (AEET-257)
  neutron fission cross sections, (E), 21:12047
  neutron reactions with, total cross sections for, 21:8416
  neutron resonance absorption interference effects in graphite moderated homogeneous reactors, 25:5958
  neutron resonance integral experiments with, use of thorium wire for, 21:42752
  neutron resonance integral overlap with uranium-233, 24:33330
  neutron total cross sections at 0.01 to 10,000 eV, (E), 21:21525
  oxidation of tetravalent, in aqueous solutions of hydrochloric, nitric perchloric, and sulfuric acids, kinetics of, 25:20996
  oxidation of tetravalent, in hydrochloric, nitric, perchloric, or sulfuric acid media, kinetics of, 24:38985 (NP-18348)
  preparation of carrier-free, 21:8307
  preparation of carrier-free by sorption by glass, 22:8196
  preparation of carrier-free tetravalent, in aqueous solution, 24:38985 (NP-18348)
  preparation of sample of, at MTR, method for, 24:3052 (IN-1310, pp 1-30)
  production and recovery of, 21:30502 (ORNL-3950)
  production by neutron irradiation of thorium carbonate, 22:44970 (AERE-AM-103)
  production in fuel for molten salt breeder reactor, 24:9277
  production in neutron irradiation of thorium, 21:31060(R) (IN-1105)
  production of carrier-free, from neptunium-237, 24:19018
  production of, relations with thorium dioxide neutron capture resonance changes, 22:17190
  reactivity effects in MTR, 23:4311 (IN-1254)
  recoil from neutron reactions with thorium, 22:48895 (CEA-R-3493)
  release from irradiated uranium carbide (UC_2) coated particle fuels, (E), 24:40983 (DP-Report-137)
  separation from aluminum chloride—hydrochloric acid solution by solvent extraction using tridodecylamine and TTA, 21:30374
  separation from aqueous solutions by solvent extraction using Aliquat-336, 21:18301(R) (IN-1048)
  separation from hydrochloric acid solutions by solvent extraction using alcohols, 22:2181
  separation from hydrochloric, nitric, and sulfuric acid solutions by solvent extraction using 4-methyl-3-penten-2-one, 23:373
  separation from molten fluorides in MSRE of, method for, 22:12035(R) (ORNL-4191)
  separation from MSBR fuel salt, dominant mechanisms and process cycle times for, 24:46308 (ORNL-4548, pp 277-333)
  separation from neutron-irradiated thorium by migration in quartz tube with temperature gradient, 24:2285
  separation of neptunium from, by solvent extraction using 1-nitroso-2-naphthol, 24:11674
  separation of, from irradiated thorium by precipitation with manganese oxide, 21:8416
  separation of, from neutron-irradiated thorium, 21:8321
  sorption of, from acid solutions by silica gel, 21:8321
  uptake and metabolism by animals and man, 22:8644
  uptake by crabs and mussels, effects on EDTA on, 24:7717
  uptake from sea water by animals, effects of EDTA on, 24:34062
  use for measurement of plutonium-239 contamination of human lungs, 22:28472
  use for measurement of plutonium-239 contamination of human lungs, 23:4925(T) (AEC-tr-6967)

PROTACTINIUM ISOTOPES Pa-234
  beta decay of isomer of, 21:32229
  beta decay of, β—γ and γ—γ coincidence spectra for, (E), 22:50635
  beta decay of, β—γ delayed coincidence spectra for, (E), 23:7318
  beta decay of, γ spectra for, (E), 22:53218
  beta decay of, γ spectra from, (E), 22:27184
  beta decay of, γ—γ delayed coincidence measurements on, (E), 23:23699
  content in sediments from Ribble River in England, 21:10484
  content of waste from Argonne reactor during 1968, 23:24584 (TID-25006)
  decay of isomeric, ft-values and gamma spectra for, (E), 21:25560
  energy levels of, structure of excited, 21:10059
  gamma spectra of, in uranium ores, 21:193(T) (AEC-tr-6830)
  half-life of isomeric, 23:46985 (JAERI-1178)
  preparation of isomeric, for low-energy beta counting, 23:9658
  preparation of isomeric, for use as beta source by migration in quartz tube with temperature gradient, 24:2285
  preparation of radiation sources of isomeric, 21:23934
  production of millicurie amounts of, 22:33382
  separation from thorium-234 by migration in quartz tube with temperature gradient, 24:2285
  separation from thorium-234, chromatographic method for, 24:38995 (PRNC-135, pp 427-30)

PROTACTINIUM ISOTOPES Pa-235
  beta decay of, β and γ spectra and half-life for, (E), 23:17119
  decay of, β and γ spectra from, (E), 24:28767 (CONF-680461-7)

PROTACTINIUM ISOTOPES Pa-236
  beta decay of, β and γ spectra and half-life for, (E), 23:17119
  beta spectra, 22:20975(R) (BMwF-FBK-67-89)
  decay of, 24:29308(R) (BMBW-FBK-70-4)
  decay of, β and γ spectra from, (E), 24:28767 (CONF-680461-7)
  gamma spectra, 22:20975(R) (BMwF-FBK-67-89)

PROTACTINIUM ISOTOPES Pa-237
  beta decay of, β and γ spectra and half-life for, (E), 23:17119
  beta decay of, half-life for, (E), 24:26649
  beta spectrum of, 22:20975(R) (BMwF-FBK-67-89)
  decay of, 25:10472(R) (BMBW-FBK-70-19)
  decay of, 24:29308(R) (BMBW-FBK-70-4)
  decay of, β and γ spectra from, (E), 24:28767 (CONF-680461-7)
  gamma spectra, 22:20975(R) (BMwF-FBK-67-89)

PROTACTINIUM ISOTOPES Pa-238
  beta decay of, β and γ spectra and half-life for, (E), 23:17119
  beta decay of, gamma spectra from, (E), 25:28326 (CERN-70-30(Vol.2), pp 985-1000)
  beta spectra, 22:20975(R) (BMwF-FBK-67-89)
  decay of, 25:10472(R) (BMBW-FBK-70-19)
  decay of, 24:29308(R) (BMBW-FBK-70-4)
  decay of, β and γ spectra from, (E), 24:28767 (CONF-680461-7)
  decay scheme for, (E), 24:28767 (CONF-680461-7)
  separation from radioactive wastes from fuel reprocessing, 22:40172 (KR-126, pp 267-78)
  x-ray spectra, 22:20975(R) (BMwF-FBK-67-89)

PROTACTINIUM NITRATES
  complexes of, composition and stability constants of, 21:8414

PROTACTINIUM OXALATES
  complexes of, formation of, 21:35975
  properties of, 22:2077
  spectra of, ir and uv, 22:2077
  structure in aqueous solutions, spectral studies on, 23:11510

PROTACTINIUM OXIDES
  chemical properties of, 23:19707
  composition of hydrated, 21:8323
  crystal structure of, 21:8323
  crystal structure of, 23:19707
  Moessbauer spectra of, (E), 25:7145 (UCRL-19530, pp 191-220)
  phase studies of, by x-ray diffraction, 21:9240
  precipitation from molten fluorides, effects of oxidizing and reducing agents on, 25:15625 (ORNL-4622, pp 60-118)
  preparation of, 21:35975
  protactinium-231 Moessbauer effect in, 23:7060
  reactions of, with alkaline earth oxides, 21:8315
  reactions of, with chlorine—carbon tetrachloride system, yields of $PaCl_5$ from, 21:8305
  reactions of, with hydrogen fluoride and hydrogen, yields of Pa_4F_{17} from, 21:8310
  reactions of, with nitrogen pentoxide, 21:8309
  reactions of, with oxides of other elements, solid-state, 21:8314
  reduction of Pa_2O_5 with carbon at 1000 to 2200°C, 23:37941
  spectra of Pa_2O_5, x-ray absorption, 21:8316
  structure in aqueous solutions, spectral studies on, 23:11510
  thermodynamics of, 23:11497
  Pa_2O_5—rare earth oxides, phase studies of, 22:4895
  PaO_2—ThO_2, phase studies, 21:9240

PROTACTINIUM OXYBROMIDES
  crystal structure of, 22:16515
  crystallographic properties of, 22:16500
  formation by reaction of protactinium tetrabromide and antimony trioxide, 21:30423
  preparation of, 22:16500
  preparation of, 21:8304
  spectra of, infrared, 22:16500
  spectra of, ir, 22:2055

PROTACTINIUM OXYCHLORIDES
  crystallographic properties of, 22:16500
  formation by reaction of protactinium tetrachloride and antimony trioxide, 21:30423
  preparation of, 22:16500
  preparation of, 21:8304
  spectra of, infrared, 22:16500

PROTACTINIUM OXYFLUORIDES
  preparation and properties of, 25:12978
  thermodynamics of, 23:11497
  thermodynamics of, 24:41248(T) (ORNL-tr-2350)

PROTACTINIUM OXYIODIDES
  crystallographic properties of, 22:16500
  formation by sublimation of protactinium tetraiodide, 21:30423
  preparation of, 22:16500
  preparation, properties, and spectra of, 22:2055
  spectra of, infrared, 22:16500

PROTACTINIUM PEROXIDES
  composition of, thermogravimetric, differential thermal analysis, and infrared studies on, 23:40647
  preparation and properties of, 21:8323
  structure in aqueous solutions, spectral studies on, 23:11510

PROTACTINIUM PHOSPHATES
  phase studies on pentavalent, at 800 and 1050°C by thermogravimetry, radiocrystallography, and infrared spectroscopy, 25:15641

Protactinium Potassium Fluorides
    see Potassium Protactinium Fluorides

Protactinium Rubidium Fluorides
    see Rubidium Protactinium Fluorides

PROTACTINIUM SELENATES
  complexes of, preparation and properties of, 21:8308

PROTACTINIUM SULFATES
  complexes of, preparation and properties of, 21:8308
  preparation of, 21:45082 (ORNL-4145, pp 260-1)

PROTACTINYL IONS
  spectra and structure of, continuities in, 23:19735

PROTAMINES
  effects on adsorption of labeled RNA by lymphoid cells, 21:16262 (USNRDL-TR-1080)
  effects on root growth in barley and wheat, 21:20426(R) (UCB-34-P-50-4)
  radiation effects on reactions of, with DNA, γ, 23:45344
  radiation effects on recombination of unpaired electrons in, effects of temperature on γ and uv, 22:49176(T) (JPRS-43645, pp 95-7)
  radiation effects on, effects of, on thromboelastogram parameters, 23:35659
  radioprotective effects of stellin, on mice, cobalt-60 γ, 22:25864
  radioprotective effects of, on rabbits, phosphorus-32 β, 23:50625
  sulfate salts, effects on plaque size of western equine encephalomyelitis virus, 21:45601
  sulfates, reactions with hydrated electrons, effects of polyanions on, 22:42783

Protection From Radiation
    see Radiation Protection

PROTECTIVE CLOTHING
    see also Clothing
  air purification respirator design for, 21:43107
  book: Means of Individual Protection for Work with Radioactive Materials, 22:40731
  composition of shoe cover, effects on resuspension of radioactive dust from laboratory floor, 21:46999(R) (AERE-PR/HPM-11)
  contamination monitoring at Hanford laundry facilities, development of automatic system for alpha, beta, and gamma, 23:11753 (BNWL-SA-2045)
  decontamination at CANDU Reactor, 21:30650 (AECL-2877)
  decontamination by laundry cleaning machine, 23:9960
  decontamination methods for use in hot cells, 24:31660
  decontamination of latex gloves, equipment and method for, 23:17729 (CEA-R-3664)
  design and efficiency of laser, for eyes, 22:38252 (CONF-660573-, pp 97-109)
  design for eyes of man exposed to flashes of light from nuclear weapon detonation, 23:2843
  design for fire fighting personnel in radiation areas, 25:37827
  design for medical personnel and patients, 24:7865
  design for operators of abrasive cleaners in radiation decontamination facility, 21:24401 (BNL-10076)

design for protection against nuclear weapons, 22:8528(T) (JPRS-42929, pp 208-65)
design for protection against radioactive aerosols, 22:40662(T) (JPRS-43578)
design for protection of personnel against tritium, 25:24187 (CEA-N-1413)
design for radiation protection, 21:1487 (AERE-R-5184)
design for use in environments with tritium or tritiated water, 25:37796(R) (CEA-N-1364)
design for use in radioactive and high temperature environments, 21:39082(T) (JPRS-41816)
design improvements in, at Savannah River Laboratory, 21:20227
design of absorbing or reflecting goggles for laser personnel, 24:21182
design of air-supplied, for work in environment of carbon dioxide, high temperature, and tritium, 23:16309
design of antiflash goggles, 21:41087(P)
design of disposable plastic, for protection against radioactive dusts, 22:10765(T) (LB/G-2598)
design of improved suit for use in contaminated environment, 23:9966(P)
design of overpressure, for work with radioactive materials, 23:29537 (FOA-4-4371)
design of plastic ventilated suit for protection of personnel against radioisotope inhalation or ingestion, 25:8691
design of pneumatically insulated, with air regenerating system, 21:39082(T) (JPRS-41816)
design of radio-, with ventilation for use in biomedical testing, 23:4940(P)
design of radioisotope-heated thermal suit for survival in cold environment, 23:19901 (AD-670212)
design of testes shield for x ray technicians, 21:22460
design of turret, for use by personnel of active-handling cells, 23:29533 (AERE-R-5288)
design of ventilated, 23:20232(P)
design of ventilated, for protection against dusts, low temperatures, and x radiation, 22:49341
design of ventilated-hood head covering, for use in toxic or radioactive atmospheres, 25:48900(P)
development for radiation protection of personnel, 24:17054 (AECL-3475)
development for radioisotope laboratories, 23:26816
development for use by astronauts in hot, humid environment, 23:14278 (AGARD-CP-25)
development of glasses, for protection of human eyes against flashblindness, 23:14278 (AGARD-CP-25)
development of lead impregnated vinyl foundation garment for female personnel, 25:13462
development of PVC, 21:32672
development of PVC pressurized suit for temperatures of 40 to 50°C, 25:46866
effectiveness for protection of personnel against radioactive gases, 24:7866
effectiveness for protection of radiography personnel, 25:29529
effectiveness of pressurized and unpressurized sealed suits for protection of personnel against radioactive contaminants in work areas, 25:24186 (CEA-N-1408(3))
effectiveness of, of cotton and polyvinyl chloride suits and masks in reducing contamination through absorption of tritiated water, 21:14655
effects of pressurized suits on body temperature and physiology of personnel, effects of muscular activity on, 25:32428 (CEA-N-1407)
efficiency for use in environment contaminated by radioactive aerosols, comparison of natural and synthetic fibers for, 22:40677
efficiency in tritium-contaminated atmosphere, 22:45527
efficiency of lead, tables for, 21:12848
efficiency of, compared with barrier creams for reactor personnel, 21:4842
evaluation of, 21:32677
evaluation of polymeric films for use as, 23:847
heat source for undersea diver, design of thulium-170 or -171, 24:41619(P)
material for, flexible shielding, 22:43523(P)
noise levels in, methods for reducing, 21:1487 (AERE-R-5184)
penetration by sodium chloride aerosols, measurement of, 21:46999(R) (AERE-PR/HPM-11)
performance for protection against thermal radiation following nuclear explosion, 23:2837
performance testing of face masks, 24:50927(T) (LA-tr-70-17)
performance testing of face masks, 24:50926(T) (LA-4459-TR)
permeability to tritium and tritiated water, multi-ionization chamber measurements of, 23:20176 (CEA-CONF-1168)
production of cloth for, 23:20256(P)
radiation protection of astronauts in space flight by, 23:4961
radiation protection of human gonads during diagnostic procedures in dentistry, x, 24:728
radiation shielding properties of lead-impregnated glove, 23:33708 (PHS-PUBL.-1809, pp 21-44)
radioprotective effects of gloves, for hands of personnel, effects of protective ointments on, 23:41333
reactions with bromine pentafluoride, 23:40614 (K-1753)
relation between film badge position and, 25:46867
shielding properties of space suit, 23:33903
shielding properties of, against tritium absorption by skin of man, 22:8527 (SC-DC-67-2191)
standards for pressurized, 21:39392 (AHSB(RP)R-76)
standards for, IAEA, 25:46860
temperature in pressurized, control of, 23:14191
testing of polymer film, for permeability of tritium-labeled water, 23:18025 (JAERI-5017, pp 94-106)
uranium retention on, effects of textile on, 24:29741
use at Savannah River Production Reactors, description of, 22:35455 (DPSPU-66-30-13)
use by personnel during stripping of barrier coatings, 21:43431
use by personnel in diagnostic radiography, recommendations for, 25:4531
use for civil defense personnel, 23:20203 (CONF-680507-, pp 471-80)
use for maintenance of liquid metal-cooled fast reactor liquid sodium cooling system, description of, 22:46960
use for radiation protection of personnel against atmospheric contamination in laboratories, 22:45575
use in civil defense in rural Soviet Union, 21:34659(T) (ORNL-tr-1693)
use in decontamination of plutonium laboratory after glove box explosion and fire, 22:2320 (BNWL-464)
use of disposable plastic suits and hoods with positive air supply as, 22:51567(R) (IN-1205)
use of insulated, with device for regeneration of breathing mixture, 21:39428

Protective Construction
see Field Fortifications

Protective Construction (Shelters)
see Shelters

Protective Masks
see Protective Clothing

PROTECTIVE OINTMENTS
see also Eucerite
see also Petrolatum
effectiveness for local protection of skin against ionizing radiations, evaluation of five single preparations and combinations for, 25:24212
effectiveness for removal of chromium-51, cobalt-58, and mercury-203 from human skin, 23:29543
effectiveness of actihaemyl, for treatment of radioinduced dermatitis in man, 25:46903
effectiveness of estrogen, for protection of human vagina against radiation injuries during therapy, 25:37830
effectiveness of sunscreening, for uv-radioprotection of human skin, 25:4608
effectiveness of topical application of dimethyl sulfoxide, for protection against radiation injuries in mice, 21:28558
effectiveness of, for decontamination of radioactivity on skin, 21:12828 (AE-255)
effects of, on the absorption of uv radiation in the skin of humans, 21:8883
effects on skin, during γ- and x radiation therapy of neoplasms, 21:20240
evaluation for treatment of x radioinduced skin lesions, 21:22482(T) (CONF-660412-8)
preparation of oleate, for removing radioisotopes from skin, 21:24530(P)
radioprotective effects of, containing vitamin A, on human skin, x, 23:35770
radioprotective effects on skin of hands of personnel, effects of combined use of gloves on, 23:41333
radiosterilization of ophthalmic, containing chloramphenicol and hydrocortisone, effective dose for, 25:27161
radiosterilization of ophthalmic, effects of, on chemical and physical properties, 24:51125
radiosterilization of ophthalmic, in relation to radiosensitivity of chloramphenicol and hydrocortisone acetate moieties, 25:8826
radiosterilization of, effects of, on containers and stability, cobalt-60 γ, 23:45982
use for prophylaxis and treatment of skin injuries induced by γ and x-ray therapy of malignant tumors, 21:20240
use for treatment of uv-irradiated human skin, 22:28641
use of casein and silicon, for protection of hands against radioactive materials, 23:14225
use of, to prevent radioactive contamination of reactor personnel, 21:4842

Protective Structures
see Shelters

PROTEINASES
comparison of porcine thyroid acid, with porcine pepsin, 24:41132(R) (RLO-2225-T-4-3)
effects on cytochrome C, 22:40556
production by x-radioinduced mutants of Aspergillus sojae, 24:34240
radiation effects on activity of rabbit leukocyte, macrophage, and spleen cell, whole-body x, 25:27035
radioinduced inactivation of, in germinating bacterial spores, γ, 25:37915

PROTEINS
see also Actomyosin
see also Albumins
see also Amyloid
see also Antigens
see also Casein
see also Collagen
see also Crystallins
see also Cytochromes
see also Edestin
see also Elastin
see also Enzymes
see also Fibrin
see also Flagellin
see also Gelatin
see also Globins
see also Globulins
see also Gluten
see also Glycoproteins
see also Hemoproteins
see also Histones
see also Interferon
see also Keratins
see also Lipoproteins
see also Lysins
see also Mucoproteins
see also Myoglobin
see also Myosin
see also Nucleoproteins
see also Peptides
see also Peptones
see also Phosphoproteins
see also Phycocyanine
see also Properdin
see also Protamines
see also Prothrombin
see also Toxins
see also Transferrin
absorption spectra for, microwave, 23:48263
actinide distribution in blood serum, of man and rats, methods for determination of, 23:24629
actinide distribution in blood serum, of rats, americium, curium, and plutonium, 23:2748
activity of carbon-14- and tritium-labeled aqueous solutions of, method for liquid scintillation counting of, 21:19951
americium binding by, in blood serum, 21:3370 (AWRE-O-37/66)
americium distribution in, of blood serum, 21:24280 (AWRE-O-15/67)
americium-241 content of plasma, in dogs, 23:11981 (COO-119-237, pp 135-52)
amino acid incorporation into, by liver of roosters, effects of estrone on in vitro, 21:20034 (UCLA-12-612, pp 15-36)
amino acid sequences of, method for determining, 24:41949 (ANL-7635, pp 229-91)
analysis for carbon-14 and tritium in polyacrylamide gels by liquid scintillation counting, 25:28994
analysis for glycine using isotope dilution, 21:42907
analysis for radioactive collagen, 25:28997
analysis in α crystallins of bovine lens cortex, 21:47042 (TID-23948)
analysis in man with myeloma nephrosis following exposure to atomic bombings of Hiroshima and Nagasaki, 22:8580
analysis of basic, use of disc gel electrophoresis for, 22:51304 (LA-3848, pp 21-61)
analysis of complex mixtures of, isotope dilution and mass spectrometric method for sequence, 24:31239
analysis of grain, by x-ray photoelectron spectroscopy or NMR, 24:46159 (UCRL-19899)
analysis of hydrolyzates of tritiated, for amino acids, scintillation flow cell for, 24:27378
analysis of peptides in, of vertebrates, 22:12160(R) (CALT-642-3)
analysis of ribosome, isolated from tissues of mammals, 22:38193(R) (EUR-3912)
analysis of singly and doubly labeled, by immunodisk method and scintillation counting, 23:28727
analysis of tritium-labeled, separated by disc electrophoresis for radioactivity by liquid scintillation spectrometry, 23:17358
analysis of, for tritium, efficiency of scintillation counters for, 21:33
analysis of, from plasma, for selenium, 21:12299
analysis of, sequence, 22:14429 (ORNL-4196, pp 44-54)
arrangement of, in bacteriophage, effects of deuterium on, 21:11141
binding by thyroid hormone in vitro, tracer method for measurements of endogenous and exogenous, 23:45615
binding by thyroxine, use of, for estimation of thyroxine content of serum, 24:16957
binding of bone-seeking metal ions to sialo, 21:3385
binding of cobalt-57-labeled transcobalamin, by vitamin B_{12} in human blood serum, 22:21442
binding of gold-198 colloids to blood serum, in guinea pigs, man, rabbits, and rats, methods for determining, 23:50263
binding of human plasma, in relation to compartmental redistribution of technetium-99m-labeled pertechnetates in plasma, effects of perchlorate ion on, 24:17083
binding of iodine-131-labeled triiodothyronine to, for use in diagnosis of thyroid function in vitro, 22:4632(T) (AERE-Trans-1073)
binding of ions by blood serum, 21:36483
binding of p-hydroxymercuribenzoate by, of Micrococcus radiodurans, 22:23410(R) (NYO-3319-17)
binding of serum, with vitamin B_{12} in leukemia patients, 21:6407
binding sites of Concanavalin A, 24:41949 (ANL-7635, pp 229-91)
binding to americium and plutonium in vitro, tracer studies of, 22:51372
binding to calcium ions in cartilage and bone of cattle, 25:37711 (ANL-7770, pp 149-56)
binding to carcinogenic carbon-14-labeled nitroquinone oxide in cell cultures, 25:8746
biophysical studies on, 21:11140(R) (ORO-2832-48)
biosynthesis of plant, in vitro, 25:31720(R) (ORO-3982-10)
book: Investigation of the Paramagnetic Centers of Irradiated Proteins, 25:42275
book: Photochemistry and Luminescence of Proteins, 24:2566(T) (AEC-tr-6717)
book: Structure, Function, and Evolution in Proteins (Vol. 2), 23:31597 (BNL-50116(Vol.2))
book: Structure, Function, and Evolution in Proteins (Vol. 1), 23:31596 (BNL-50116(Vol.1))
calcium binding by, in blood serum in rabbits, 22:30999
calcium binding to, in serum of laying hens, 21:20052
carbon-12 content of, of plankton, 22:40609
carbon-14 content of, in tissues, development of method for determining, 25:13345
carbon-14 incorporation by, in algal flagellates, effects of antibiotics on, 21:13072 (COO-1117-10)
carbon-14 incorporation in, of rat liver homogenates, effects of avidin on, 25:13344
carbon-14 incorporation into, of blood serum and liver in chickens, effects of age on rate of, 24:46572
catabolism and transport mechanisms for, 25:60277(R) (NYO-3515-5)
cerium-141 binding to blood serum, dialysis study of effects of chelating agents on, 24:36689
cerium-141 binding to blood serum, review on dialysis methods for studying, 25:26584
ceruloplasmin content in cases of cervical carcinomas, use of, as prognostic indicator, 21:12919

characteristics of amino acid sequences in, development of automated system for determination of, 21:40736 (ORNL-P-3296)
characterization in mammalian tissues, 24:23235(R) (ACRH-32)
chelates with radioactive ligands, ultrafiltration method of measuring, 24:4239
chemical structure in relation to radiobiology, 23:35848
chemistry of, isoelectric separation in, 25:10413(T) (UCRL-Trans-1428)
chemistry, function, and structure of, conference on, 25: 32356 (CONF-690841-(Absts.))
chromatography for identification of irradiated meat, 25: 49327 (EUR-4618)
chromium-51 uptake by, following elution from labeled leukocytes in mice, 23:26678
cobalt-60 binding to, in chick embryo, 21:8687
comparison of light chain of myeloma, with lambda-type Bence-Jones, 22:28397 (ANL-7278, pp 144-69)
complexes with actinium-227, metabolism in rats following intravenous injection, 24:50704
complexes with chlorophyll, determination of structure of, 22:14905 (BNL-50057, pp 111-22)
complexes with uranium, composition and stability constants for, 25:49098(T) (ANL-Trans-899)
components of immunoglobin associated with hepatoma or liver microsomes of rats, 23:45162 (NYO-2651-21)
composition of wheat grain, in EMS-induced and x-radioinduced mutants, 24:23172
concentration and desalting of solutions of, 25:20882(R) (ORNL-TM-3082)
concentration and desalting of solutions of, research progress on, 25:31714(R) (ORNL-TM-3328)
concentration using ultracentrifugation, 25:8157(R) (ORNL-TM-3073)
conference on improvement of plant, 25:24040 (STI/PUB-258)
conference on new approaches to breeding for improved plant, 23:31686 (STI/PUB-212)
content in blood serum, densitometer for electrophoretic determination of, 22:2453 (ORNL-IIC-10(Vol.1), pp 282-97)
content in diet of rats, effects on iodine-131 uptake in thyroid gland, 21:24344
content in fish, 21:24413 (ORNL-P-2954)
content in milk treated with calcium phosphate columns, 21:165
content in tobacco and wheat species, role of variations of, in species differentiation, 21:22233 (BNL-994, pp 113-23)
content of acid, in tumors, effects on radiosensitivity, 24:32234
content of biuret-reacting, in kidneys of mice and rats, effects of uranyl nitrate on, 22:38219
content of blood in chipmunks, effects of sex on, 22: 6769(R) (NYO-2579-17)
content of blood serum in human populations exposed to atomic bombing of Hiroshima, 22:6839
content of blood serum in irradiated and normal rats following immunization with liver and spleen tissue extracts, 22:25771
content of blood serum of cattle, effects of vaccination with x-irradiated nematode larvae on, 24:31871
content of diet before and after exposure, effects of, on uptake of iron by hematopoietic tissues of whole-body γ-irradiated mice, 23:41236
content of diet of burros, effects of, on γ-radiosensitivity of foals, 22:40829 (ORO-657, pp 18-34)
content of diet of mice, effects of, on yttrium-91 metabolism, 22:43210
content of diet, effects of pre- or post-exposure, on survival of whole-body γ-irradiated mice, 23:41446
content of diet, effects of, on biosynthesis and catabolism of plasma albumins in rats, 22:30993
content of diet, effects of, on zinc uptake by calves, 22: 40831 (ORO-657, pp 46-64)
content of disulfides in, of ascites tumor cells, 22:21565
content of Escherichia coli, combined effects of benzopyrene and light on, 22:28289 (ORNL-4100, pp 178-201)
content of freshwater fish, for use as food for human population in postattack environment, 22:12861
content of γ-irradiated lysosyme, chromatographic separation of, 23:7927(R) (COO-690-32)
content of Haplopappus gracilis, effects of, on sensitivity to radiomimetic compounds, 22:31139
content of human blood serum, effects of uranium content of drinking water on, 25:13595
content of human diet, effects of, on plutonium excretion in urine, 23:35616
content of injected, in mouse blood, effects of antibody response to, tracer study of, 21:8908 (AD-635754)
content of iodine-131-labeled, in plasma of man following radiotherapy of thyroid carcinomas, 22:28584
content of mice, neutron activation analysis of, 24:9736
content of Micrococcus radiodurans, determination of rate of increase in, 22:23410(R) (NYO-3319-17)
content of milk, effects of strontium-90 decontamination by resin treatment on, 22:15008
content of rabbit blood following pneumosclerotic effects of plutonium inhalation, 23:48208
content of rat diet, effects of, on calcium-strontium metabolic discrimination, 23:12019
content of rat diet, effects of, on metabolism of iron-59, 23:7937
content of rat organs, effects of uranyl nitrates on, 23: 50322
content of renal lymph in dogs, effects of uranium injury on, 23:50318
content of serially transplanted, x-irradiated Ehrlich ascites cells, effects of, on radiosensitivity, 23:43847
content of serum of beagle dogs, 22:28622 (ANL-7278, pp 95-131)
content of soluble, in electron sterilized beef, effects of storage temperature on, 21:24700
content of soluble, in electron sterilized pork, effects of storage temperature on, 21:24700
content of tumor cells, pulse fluorometric measurement of, 25:41650(T) (LA-tr-71-47)
content of yolk, in eggs of fish, 22:28283 (ORNL-4100, pp 75-96)
content of, in blood of hyperthyroid patients, effects of iodine-131 on, 21:14701
content of, in endosperm of wheat mutant induced by x radiation, 21:12823
content of, in grain of radioinduced wheat mutations, x, 21:24657
content of, in rabbit serum, effects of uranium combined with γ irradiation on, 21:14566
content of, in serum of offspring of irradiated guinea pigs, 21:16502
cortisol binding by, in human blood plasma, measurement of, using in vitro radioisotope tracer method, 24:29660
crystallography of Bence—Jones, 24:41949 (ANL-7635, pp 229-91)
crystallography of myeloma, 24:41949 (ANL-7635, pp 229-91)
curium distribution in, of blood serum, 21:24280 (AWRE-O-15/67)
detection in urine of children exposed in utero to atomic bombings in Hiroshima and Nagasaki, 21:26483
determination in aspartate carbamoyltransferase, 23: 7927(R) (COO-690-32)
determination in foods by neutron activation methods, 22:4022
determination in plants by 14-MeV neutron activation, 25:24006
determination in polyacrylamide gels by densitometry, 23:13664
determination in seed by prompt neutron capture method, nondestructive, 25:37329
determination in spinal fluid, effectiveness of brain tumor diagnosis by, 25:42547 (ACRH-1000-248)
determination in tissues and serum by radiometric method, 24:18985(R) (COO-1617-19)
determination of antibacterial, in lysosomes of polymorphonuclear leukocytes, 22:20998(R) (ORO-3628-1)
determination of crystal structure of, 21:8679 (ORNL-3999, pp 176-206)
determination of molecular weight of, using ultracentrifugation, 22:16974(R) (ORO-2832-56)
determination of radioactive, by liquid scintillation counting using aquasol, 25:31843
determination of, in blood serum, refractometric, 21: 12290 (UCRL-16898, pp 64-71)
determination of, methods for micro-, 21:34739(R) (COO-1270-1)
deuterium exchange in coating of, on tobacco mosaic virus, conformation by, 24:44003
deuterium exchange with hydrogen in, effects of environment on, 23:21707
digestion by cattle and sheep, bibliography on role of microorganisms in, 22:20997 (ORNL-TM-1973)
digestion of, effects of photoinactivated enzymes on, 22: 14907 (COO-875-80)
distribution in burned skin of man, iodine-131 tracer study of, 23:26659
distribution in embryos of Vanda sp, 22:40953(R) (UH-235-P-6-5)
distribution of basic, in Chinese hamster ovary cells, 22: 51304 (LA-3848, pp 21-61)
distribution of radioactive iodo-, in thyroid and non-thyroid lymph and blood, 21:1720
effects of depressed synthesis of, on survival of irradiated L cells, 25:26969
effects of dietary, on x-radiosensitivity of sarcomas of mice and rats, 22:40856
effects of extracts from soluble fraction of rat liver, on cleavage of glyceryl ethers, 21:34680 (TID-23834)
effects of iodides on interaction between thyroxine and plasma, in rats, 23:2796
effects of plant cell wall, on secretion of enzymes by plant pathogens, 25:54360 (COO-1426-56)
effects of synthesis of, on recovery in x-irradiated yeast, 25:27096
effects of tritium-labeled, on bacteria and bacteriophages, lethal and mutagenic β, 24:31923
effects of tritium-labeled, on viability of E. coli, 21: 20025(R) (COO-1603-1)
effects of, on uv radiosensitivity of human skin, review of, 21:14757
effects on activity of coacetokinase in yeasts, effects of potassium and sodium ions on, 22:43219
effects on calcium-45 and strontium-90 retention in bones of swine, dietary, 25:23976(T) (AEC-tr-7195, pp 241-6)
effects on frequency of chromosome aberrations in uv-irradiated onion roots, 24:25466
effects on γ-radiosensitivity of Staphylococcus aureus, 22:15125(R) (RLO-1730-2)
effects on iron-59 metabolism in rats, 21:20072
effects on mitosis in γ-irradiated pea roots, delaying, 25: 27063
effects on survival of γ-irradiated fruit flies, 23:35979
effects on uptake of iodine-131-labeled albumin by isolated tumor cells, basic, 21:22289
effects on uptake of radioactive rare earth isotopes by animals, 25:29445
effects on uv- and x-radioinduced liberation of lambda prophage, 22:40974
effects on uv-radiosensitivity of β-lactoglobulin in aqueous solutions, 21:41313 (AERE-R-3860)
effects on uv-radiosensitivity of tobacco mosaic virus RNA, 22:49266
effects on x radiosensitivity of lymphocytes, 25:26903
effects on x-irradiated jejunal crypt cells of rats, 25: 13562
effects on x-radioinduced delay of mitosis in Chinese hamster cells, 25:26626
effects on x-radiosensitivity of DNP, 22:28389
effects on x-radiosensitivity of mammalian cells, synthesis of, 22:49519
effects on yttrium retention in rats, 25:6612(T) (AEC-tr-7169, pp 137-52)
electric properties of, solid-state, 24:18820 (COO-1714-4)
electron range at 10 to 1000 eV in dry, classical calculation of, 25:22581
electrophoresis of, 22:14429 (ORNL-4196, pp 44-54)
energy migration in, following excitation of indole groups, pathways for, 22:43205(R) (COO-894-30)
excretion of blood plasma, in feces of x-irradiated mice, 25:21831(T) (BNWL-tr-63)
fluorescence of solid, 23:7102(R) (NYO-2962-7)
formation of calcium-binding, in intestine and kidney of rachitic animals, effects of vitamin D on, 22:30408 (NYO-2147-13, pp 28-52)
formation of, in antibody-forming cells, 21:8915 (ORNL-3999, pp 83-7)
fraction of iodinated, of hyperplastic thyroid gland, ultracentrifugal, 22:40517(R) (ORO-1643-89)
fractionation of brain tumor, for preparation of preferentially localizing tumor antisera, 21:26471(R) (NYO-3267-4)
fractionation of serum, use of electrophoretic, for diagnosis of hepatic diseases, 22:6216(R) (ORO-3461-9)
genetic variations in Bence-Jones, 22:28397 (ANL-7278, pp 144-69)
hydrolysis in liver and spleen of animals in relation to radiosensitivity, 22:19269
identification of calcium-binding, in intestinal mucosa of chicks, 21:22239(R) (NYO-2147-12)
immune reactions of serum, of radiation mouse-rat chimeras, methods for analysis of, 21:22710
immune reactions of, in tobacco mosaic virus, 21: 39325(R) (NYO-3557-2)
immune reactions to injected, in guinea pigs, passive transfer of, following injection of plasma fractions from x-irradiated donors, 24:36720
immunologic properties of T_1-specific, 21:8675 (ORNL-3999, pp 134-9)
incorporation of heavy atoms, 22:28289 (ORNL-4100, pp 178-201)
iodine content of serum, use of activation analysis for determining, 21:19552
iodine uptake by human blood plasma, tracer studies of effects of age and atherosclerosis on, 23:38446
iodine-125 binding to plasma, of teleost fish, 23:26683
iodine-125 uptake by, in human thyroid glands, effects of thyroid diseases on, 23:38434
iodine-131 binding by, in rabbit heart muscle, 21:8699
iodine-131 binding to, in blood of renal insufficiency patients, 21:18004
iodine-131 distribution in milk, 24:36691
iodine-131 incorporation in, specific activity determination by, 21:1409
iodine-131 metabolism in plasma, of man, effects of TSH on, 21:45520
iodine-131 uptake by human blood serum, effects of dose to thyroid gland on, 22:38443
iron uptake by non-heme, in human erythrocytes, in vitro tracer study of, 24:29630
isolation and identification from cultured synchronously dividing mammalian cells to determine role in mitosis, 23:2740(R) (COO-78-174)
labeling with chromium-51, 22:38195(R) (NYO-3515-3)
labeling with iodine-131 by electrolytic method, effects on metabolism of serum albumin, 21:16291
labeling with iodine-131 for measurement of vascular spaces in rats, 24:50659 (TID-25506)
loss from gastrointestinal tract, radioisotope excretion study of, 21:22260
loss from human intestine, use of iron-59-labeled dextran for determining, 25:11171
loss of enteral serum, in man with exudative gastroenteropathy, 22:19255
manganese binding to human serum, use of chromatography and manganese-54 tracer techniques to study, 25:6599
measurement in food products by activation determination of nitrogen, 22:1961 (ORO-2980-17)
metabolism in amphibian eggs, effects of heavy water on, 22:43448
metabolism in brain cells in cultures, effects of hormones on, 25:4459 (UCLA-12-782, pp 23-47)
metabolism in cultured chick embryo fibroblasts, carbon-14 tracer study of, 24:33994
metabolism in cultured HeLa cells, effects of radiotoxins on, 23:50367
metabolism in gastrointestinal tract of man, tracer studies of rate of catabolic, 23:26680
metabolism in liver of mice, iodine-131-labeled albumin tracer study of, 23:43659(R) (NYO-2182-11)
metabolism in liver of rats, carbon-14 tracer study of, 22:28273 (ANL-7278, pp 219-49)
metabolism in man, construction of lead-shielded whole-body scintillation detector for tracer study of, 22: 19392
metabolism in Nicotiana glutinosa, effects of photoreactivation of tobacco mosaic virus on, 22: 4706(R) (RLO-1952-2)
metabolism in rat heart cells in cultures, 25:4458 (UCLA-12-782, pp 1-21)
metabolism in rats, effects of oxymetholone and testosterone on, 24:4643
metabolism in rats, tracer study using selenium-75-labeled selenomethionine and whole-body counting, 24:27514
metabolism in rats, use of carbon-14-labeled arginine for analysis of, 21:36501
metabolism of deuterium-labeled, review of, 22:2489
metabolism of iodine-131-labeled plasma, in man, effects of geometry on efficiency of whole-body counter in determining, 23:43678
metabolism of milk, in dairy cows, tracer study of, 21: 34849
metabolism of rat epiphyseal cartilage polysaccharide-, effects of papain on, 21:22311

metabolism of, in amoeba, cytoplasmic control of, 21:10797
metabolism of, in persons with neoplastic disease, use of whole-body counting for determining, 21:12892 (STI/PUB-122)
metabolism of, in rats treated with radioprotective compounds following lethal irradiation, 21:10924
metabolism of, radiological measurement of, 21:10917(R) (EUR-3129.f,i)
metabolism of, reaction mechanisms for, 21:32560(R) (HUX-2643-34)
metabolism of, tracer study of, using iodine-131-labeled albumin, 21:30793
methionine uptake by human plasma, selenium-75 tracer study of, 23:47945
molecular structure of, determination by electrostatic interactions between charged amino acid residues, 21:21845 (UCRL-50160)
molecular structure of, modifications in, 21:8847 (ORNL-3999, pp 140-2)
molecular structure of, use of two-dimensional models for determination of, 22:28274 (ANL-7278, pp 250-82)
mutation breeding for increases content of, in crop plants, 24:34262
neutron scattering spectra of, compilation of, 21:10316 (PA-TR-3388)
niobium-95 binding by blood, in dogs following inhalation or intravenous injection of labeled oxalate, 24:34024 (LF-41, pp 121-9)
niobium-95 binding to, in plasma, 21:14593
nitrogen-15 content of, in wheat kernels, 22:14968
normalization of serum, use of anabolic steroids for, following radiotherapy of man, 21:28521
number, location, and properties of erythrocyte membrane, 25:37258 (UR-49-1430)
phosphorescence of solid, 23:7102(R) (NYO-2962-7)
phosphorus-32 content of, in Drosophila, 22:23463
phosphorus-32 content of, of spinach chloroplasts, effects of light on, 24:557
photochemistry of, review of literature on, 24:31844(R) (UCB-34-P-116-X-8)
plutonium binding to bone sialo-, in vitro, effects of bicarbonate ions,iron, and sialic acid on, 24:44414
plutonium binding to, in blood serum, 21:3370 (AWRE-O-37/66)
plutonium binding to, in blood serum, in vitro, 22:51466
plutonium binding with, in bones and liver, 25:8595(T) (LF-tr-41, pp 7-125)
plutonium distributions in, of blood serum, 21:24280 (AWRE-O-15/67)
preparation and properties of labeled, for metabolic studies, Italian research program on, 25:29273
preparation of carbon-14-labeled tuberculin, 21:45554
preparation of, relation to carbohydrate metabolism in calf lens cells, 21:10236 (ORNL-3999, pp 65-78)
preparations of mitochondrial, effects of, on biochemical genetics of Neurospora, 21:24293 (LA-DC-8682)
production in γ-irradiated lysozyme, denaturation studies of, 23:7927(R) (COO-690-32)
production in wheat, mutations induction by ethylenimine and ethyl methanesulfonate for, 25:24104
production of animal, from non-protein nitrogen, carbon-14, nitrogen-15, and sulfur-35 tracer study of, 24:39416 (STI/DOC-10/111)
production of, effects of, on transfer of prophage-inducing activity by ultraviolet-irradiated Escherichia coli, 21:22810
properties of nonhistone, of nucleolo-chromatin complex, 24:31184(R) (ORO-3979-1)
radiation chemistry of, 24:4307
radiation chemistry of, 24:4308
radiation chemistry of, 24:5682
radiation chemistry of, effects of free radicals on, 22:30930(R) (COO-690-29)
radiation damage to, during radioiodination, 25:34700
radiation effects from radon-containing water on sulfur-35-labeled methionine incorporation into tissue, in rats, 25:21558
radiation effects human serum, following injection of Thorotrast, 23:26935
radiation effects on, 23:47457(R) (COO-690-34)
radiation effects on Acetabularia mediterranea synthesis of, γ, 25:52000
radiation effects on acetic and propionic acid production in, gamma, 25:23940 (NYO-2735-13)
radiation effects on acid phosphatase activity in soluble, in rat liver cells, x, 25:46964 (AD-715474)
radiation effects on activity of saliva parotin-A, in rabbits, x, 22:51437
radiation effects on activity of, in rats, x, 24:29715
radiation effects on aging of serum, in prenatal rats, 25:21595
radiation effects on amide group content in, of rat brain, combined effects of overcooling with, 21:22310
radiation effects on amide groups of brain, in rats, effects of dose and time on whole-body x, 25:508
radiation effects on amino acid composition of beef, γ, 24:6157
radiation effects on amino acid content of, in processed foods, 25:55364
radiation effects on amino acid incorporation into serum and tissue of mice, x, 21:24331
radiation effects on amino acid uptake by, in rabbit tissues, protective effects of endotoxins against, 21:34721
radiation effects on aqueous solutions of, afterglow x, 23:33624(T) (AD-843701)
radiation effects on biochemical structure of, effects of dose on gamma, 25:26660
radiation effects on biochemistry of, in dogs, effects of AET on x, 25:26935
radiation effects on biochemistry of, in meats, 23:26977
radiation effects on biological activity of, 23:13781
radiation effects on biological value of, in wheat flour, cesium-137 γ, 23:26973 (CONF-670649-21)
radiation effects on biosynthesis of, by isolated mitochondria from rat liver, 23:47962
radiation effects on biosynthesis of, in lungs of rabbits, ionizing, 22:45437
radiation effects on blood serum fractions of, in rats following exposure of oral mucous membrane, uv, 25:52222
radiation effects on breaking of secondary bonding in, γ, 24:2247
radiation effects on breaking of secondary bonding in, effects of protectors against γ, 24:4308
radiation effects on charge density of myosin, uv, 21:369
radiation effects on chemical and physical properties of, from egg white, effects of 0.850 Mrad dose on, 24:7751
radiation effects on complex of, with DNA in chromatin, effects of dose on, 24:16984
radiation effects on components of, in rat serum, whole-body x, 22:463
radiation effects on composition and content of rat blood serum, x, 25:52192
radiation effects on composition and properties of rabbit fetus skeletal muscle, x, 25:32559
radiation effects on composition of lens insoluble, in young and old animals, x, 25:18909
radiation effects on composition of rat blood serum, following head exposure, x, 25:42655
radiation effects on composition of water-soluble, of blood serum, heart, and muscles of mice, combined effects of radial acceleration on x, 24:4572
radiation effects on composition of, in blood serum of rats, combined effects of inflammation on, 23:24531
radiation effects on composition of, in rabbit blood, acute x, 23:38470
radiation effects on content and type of, in blood of rats, effects of treatment with mumie on, 25:6714
radiation effects on content of blood plasma of sheep following skin exposure to strontium-90—yttrium-90, β, 25:16026 (ORO-678, pp 74-7)
radiation effects on content of C-reactive, in malignant and normal human tissues, electron, γ, and photon, 22:45407
radiation effects on content of C-reactive, in tissues of human patients with malignant lymphomas, endolyphatic iodine-131 β and γ or external cobalt-60 γ, 23:45664
radiation effects on content of disulfides and sulfhydryls of, in rat tissues, ionizing, 22:51485
radiation effects on content of iodine-127-labeled, in human blood serum, iodine-131 β and γ, 22:51400
radiation effects on content of myofibrillar, in fish, 23:41522 (TID-24317, pp 104-15)
radiation effects on content of S-100 in developing brain of rats, effects of age and hypophysectomy on x, 25:4694 (UCLA-12-791)
radiation effects on content of serum, in Beagle dogs following injection of bone-seeking radioisotopes, statistical analysis of α and β, 23:38795
radiation effects on content of serum, in guinea pigs, radiowave, 23:26700
radiation effects on content of serum, in rabbits, combined effects of pyridoxine on x, 22:6850
radiation effects on content of serum, in spleen cultures of chimeras, effects of endoxan on x, 23:2934
radiation effects on content of soluble, in myocardium of rats, whole-body x, 22:40579
radiation effects on content of soluble, in skin of young cattle, uv, 24:14421
radiation effects on content of sulfhydryls bound to, in Ascites tumor cells, x, 21:12791
radiation effects on content of sulfur-containing amino acids in rat organ, chromatographic study on x, 25:42265
radiation effects on content of thiol groups in, of cell nuclei of rat liver, x, 24:11970
radiation effects on content of thiol groups in, of rat liver nuclei, x, 24:16970
radiation effects on content of xantho-, in rats, 24:34113
radiation effects on content of, in bananas, γ, 24:34819
radiation effects on content of, in barley and wheat, effects of seed exposure on γ, 23:16434
radiation effects on content of, in barley leaves, effects of kinetin on x, 22:28342
radiation effects on content of, in barley, effects of dose, environment, and strain on cobalt-60 γ, 23:50927 (SGAE-LA-1/1969)
radiation effects on content of, in bean crops, γ, 25:24042
radiation effects on content of, in black-eyed pea seedlings, effects of seed exposure on fission neutron and γ, 22:21638
radiation effects on content of, in blood of chipmunks, 22:6769(R) (NYO-2579-17)
radiation effects on content of, in blood of dogs, x, 21:1776
radiation effects on content of, in blood of young chickens, x, 22:47587
radiation effects on content of, in blood serum of dogs, chronic, 22:47452
radiation effects on content of, in blood serum of mice, protective effects of ginseng extract against x, 22:36330
radiation effects on content of, in blood serum of rats, combined effects of skin wounds on whole-body x, 23:33860
radiation effects on content of, in blood serum of dogs, effects of dose on uv, 23:26689
radiation effects on content of, in blood serum of man, 22:4694
radiation effects on content of, in blood serum of cancer patients, effects of dose on therapeutic x, 24:34741
radiation effects on content of, in blood serum of rabbits, high and low energy x, 22:28387
radiation effects on content of, in bone marrow of rats, x, 22:45414
radiation effects on content of, in brain and serum of rabbits, microwave, 24:36831
radiation effects on content of, in brain and spinal cord of rats, prenatal x, 22:447
radiation effects on content of, in brain of mice, deuteron, 23:12192 (BNL-13065)
radiation effects on content of, in brain of rats, effects of age on x, 23:35635 (UCLA-12-725)
radiation effects on content of, in cells of Escherichia coli K 12, comparison of γ, proton, and uv, 25:13371
radiation effects on content of, in cerebrospinal fluid of burros, acute fast neutron, 23:16404
radiation effects on content of, in chicken embryos following exposure of eggs, x, 24:51058
radiation effects on content of, in chicken embryos in comparison to triethylenemelamine, x, 25:24055
radiation effects on content of, in codfish, combined effects of cooking and γ, 25:35272
radiation effects on content of, in corn and pea meals, effects of seed irradiation on, γ, 22:23705
radiation effects on content of, in corn following treatment of seed, effects of fertilizers on γ, 22:33749
radiation effects on content of, in erythrocyte stroma in rabbits, x, 22:40824(T) (JPRS-44070, pp 19-23)
radiation effects on content of, in Euglena cells, γ, 21:22824
radiation effects on content of, in fetal rats in relation to growth, cobalt-60 γ, 24:23325 (CONF-690501-, pp 375-9)
radiation effects on content of, in food, 23:29940
radiation effects on content of, in fragmented and whole amoeba, γ, 21:28686(T) (ANL-Trans-475)
radiation effects on content of, in hemolymph of large milkweed bug, effects of stadium on laser, 23:29381
radiation effects on content of, in hypertrophic kidney of rats, γ, 22:40920
radiation effects on content of, in intestinal homogenates of guinea pigs and rats, x, 23:50348
radiation effects on content of, in intestines of rats, x, 22:40595
radiation effects on content of, in leaves of maize following seed exposure, 20 and 30 kR cobalt-60 γ, 24:25596
radiation effects on content of, in liver cells of rats, whole-body x, 23:38824
radiation effects on content of, in liver mitochondria in mice, x, 23:47966
radiation effects on content of, in livers of mice, local x, 24:23113
radiation effects on content of, in mice livers, effects of actinomycin on x, 24:21213
radiation effects on content of, in muscles of dogs, ionizing, 23:33634
radiation effects on content of, in papaya fruits, γ, 23:10132 (UH-235-P-5-3, pp 3-13)
radiation effects on content of, in pear fruits, γ, 21:13064
radiation effects on content of, in peripheral blood of industrial personnel, microwave, 23:6604
radiation effects on content of, in plants, effects of growth conditions on γ, 22:31281
radiation effects on content of, in plasma of rabbits, γ, 22:43234
radiation effects on content of, in powdered eggs, γ, 21:9040
radiation effects on content of, in rat adrenals, effects of ACTH on x, 23:16231
radiation effects on content of, in rat kidneys, x, 21:26533
radiation effects on content of, in rat plasma erythrocytes, whole-body x, 25:29686
radiation effects on content of, in rat skin, x, 23:29358
radiation effects on content of, in rat tissues following prenatal exposure, whole-body γ, 23:10050 (ORO-661, pp 14-15)
radiation effects on content of, in rice, effects of dose and storage time on cobalt-60 γ, 24:51120
radiation effects on content of, in rye grass, γ, 22:47507
radiation effects on content of, in seeds of soybean plants, thermal neutron and x, 21:26677
radiation effects on content of, in serum of rabbits with nephritis, x, 22:6751
radiation effects on content of, in serum of rats, effects of dose on whole-body, 24:48433
radiation effects on content of, in serum of rats, whole-body x, 22:40909
radiation effects on content of, in soybean seeds, effects of soil fertility on latent γ, 23:6612
radiation effects on content of, in spleen cells of rats, whole-body x, 23:38474
radiation effects on content of, in spleen of mice, protective effects of bone marrow transplants against x, 22:19251
radiation effects on content of, in spring wheat, effects of variety on γ, 25:16381
radiation effects on content of, in stomach of rats, x, 22:49226
radiation effects on content of, in stored oysters, cobalt-60, 23:43931
radiation effects on content of, in supernatant of liver fractions from rats, sulfur-35 β, 22:12807
radiation effects on content of, in thymus of rats, whole-body γ, 22:40540
radiation effects on content of, in tissues of rats, 25:24363
radiation effects on content of, in tumors, protective effects of hypoxia against, 24:34417
radiation effects on content of, in vitreous fluid in eyes of rabbits, laser, 24:46583
radiation effects on content of, in wheat, effects of dose on γ, 25:24044
radiation effects on content of, in wheat, latent γ, 23:17943
radiation effects on content of, of brain of mice, deuteron, 23:38772
radiation effects on content of, of sorghum following treatment of seed, x, 23:4919
radiation effects on cross-linking of, to proteins in HeLa cells, uv, 25:10975

radiation effects on cystine-containing, uv, 23:13781
radiation effects on degradation of, by enzymes of thymus gland of rats, whole-body x, 21:32566
radiation effects on developmental increases in content of, in brain of young rats, 100 to 1500 R x, 24:23105 (CONF-690501-, pp 857-75)
radiation effects on digestion of, laser, 22:4570
radiation effects on distribution of phosphorus-32 in blood serum, proton, 22:52001
radiation effects on distribution of sulfhydryl groups in axolotl extremity, x, 21:26660
radiation effects on distribution of, in lens of rat eyes in relation to cataract development, x, 23:41456
radiation effects on distribution of, in shoot apex of mulberry following exposure of resting or sprouting buds, cobalt-60 γ, 23:38454(T) (NSJ-tr-145)
radiation effects on distribution of, in shoot apex of mulberry trees, effects of dose on γ, 23:12013
radiation effects on dry, research on, 24:41316(R) (TID-25488)
radiation effects on egg, fish, and meat, role of immunoelectrophoretic and starch gel electrophoretic studies on, 25:26631
radiation effects on electrokinetic properties of, in milk whey, thermal combined with uv, 21:24355
radiation effects on electrophoretic activity of, from kidney of rats, x, 23:2762
radiation effects on electrophoretic behavior of, from lungs of rats, x, 22:51423
radiation effects on electrophoretic characteristics and replenishment capability of, in liver of rabbits during radiation sickness, x, 24:48431
radiation effects on electrophoretic characteristics and methionine uptake by fractions of, from rabbit muscles, x, 23:6366
radiation effects on electrophoretic characteristics of, in stored meats, γ, 22:45437
radiation effects on electrophoretic pattern of human saliva, 25:57945
radiation effects on electrophoretic patterns of fractions of, of spleen of rats, effects of heating on x, 21:30790
radiation effects on electrophoretic properties of, γ, 22:15023
radiation effects on enzyme susceptibility of egg white, effects of heating on, γ, 21:26334
radiation effects on excretion of muco-, diagnostic value of x, 22:33879
radiation effects on excretion of, by rats, effects of dose on x, 25:24047
radiation effects on extractable fractions and thermal stability of soluble muscle, from rabbits and rats, x, 21:4765
radiation effects on fractions of, in blood, bone marrow, and liver of rats, 22:446
radiation effects on fractions of, in mitochondria and tissue homogenates in brain and small intestine of rabbits, x, 25:29664
radiation effects on fractions of, in radiosensitive and radioresistant lines of ascites cells, x, 24:9771
radiation effects on fractions of, in tumors, protective effects of hypoxia against, 24:34591
radiation effects on glycine incorporation by, tracer study of x, 21:45533
radiation effects on heme, 21:9035 (CONF-661017)
radiation effects on hemolymph, of Limulus, x, 21:8907 (AD-635559)
radiation effects on hydrolysis of, by blood of dogs and rats, x, 22:23429
radiation effects on hydrolysis of, in blood of mice, whole-body, 22:19261
radiation effects on immune reactions to foreign, in animals and man, 23:50393
radiation effects on immune reactions to foreign, in dogs, β, 21:1817
radiation effects on immunologic specificity of liver, in rabbits, effects of antibiotics on, 21:20053
radiation effects on incorporation of carbon-14-labeled phenylalanine into, of fetal rats 24 hr after exposure, x, 24:23350 (CONF-690501-, pp 985-94)
radiation effects on incorporation of carbon-14-labeled lysine into nuclear and cytoplasmic, of proliferating in comparison to nonproliferating tissues, whole-body x, 25:6649
radiation effects on incorporation of leucine by, γ, 24:39427(R) (COO-1313-24)
radiation effects on incorporation of sulfur-35-labeled-methionine into, of rabbit duodenum, 22:45437
radiation effects on iodine-131 uptake by, in membranes of Escherichia coli following exposure in medium containing labeled iodoacetic acid, γ, 22:33730
radiation effects on leucine incorporation in potato, inhibitory effects of antibiotics on γ, 25:32363
radiation effects on localization of injected, in tissues of rabbits, effects of inflammation on x, 22:6712(R) (COO-1172-7)
radiation effects on metabolism of, 22:6711 (BARC-287)
radiation effects on metabolism of plasma, in rats following exposure of liver, 23:26693
radiation effects on metabolism of rat plasma, carbon-14 tracer study of x, 25:46733
radiation effects on metabolism of serum, in rat, x, 21:24545(R) (EUR-3263.e)
radiation effects on metabolism of, by rabbits, effects of ethanolamine on x, 23:10017
radiation effects on metabolism of, in animals, review of whole-body, 21:45532
radiation effects on metabolism of, in bipolar and ganglionic cells of rat retina, x, 21:11037
radiation effects on metabolism of, in leaves of peas, γ, 22:23461
radiation effects on metabolism of, in mammals, ionizing, 22:16979
radiation effects on metabolism of, in man, whole-body γ, 21:8938
radiation effects on metabolism of, in rabbit gastric mucosa, x, 21:17964
radiation effects on metabolism of, in rats, effects of dose on, methods for determining whole-body, 24:48434
radiation effects on metabolism of, in rats, γ and x, 23:4901
radiation effects on metabolism of, in rats, x, 25:26624
radiation effects on metabolism of, in rats, x, 24:4562 (UR-49-1185)
radiation effects on metabolism of, in sensory cells of rat retina, x, 21:11038
radiation effects on metabolism of, in synchronous cultures of Chinese hamster cells, relation of, to reproduction, ionizing, 22:25713 (COO-78-163, pp 64-125)
radiation effects on metabolism of, in wheat rootlets, x, 23:10115
radiation effects on milk, x, 21:28356
radiation effects on molecular structure of desoxyribonucleic, γ, 21:8738
radiation effects on molecular structure of gliadin, in wheat, γ, 24:25388
radiation effects on molecular structure of native, ESR measurements of doublet and sulfur resonances following x, 24:16993
radiation effects on molecular structure of, in epidermis of rats, uv, 21:28397
radiation effects on molecular structure of, thermodynamic study of γ, 22:28335
radiation effects on molecular weight of components of molecules of, γ, 22:23408(R) (NYO-2735-8)
radiation effects on molecules of, relation to cell metabolism, 21:22249
radiation effects on nutritional qualities of, in stored potatoes, γ, 23:50969
radiation effects on optical rotation in, effects of radiation dose on, 24:4307
radiation effects on optical rotation in, effects of amino acids on γ, 24:5682
radiation effects on pepsin and trypsin susceptibility of heat-coagulated egg white, γ, 22:28306
radiation effects on peptide bonds in, destructive uv, 25:37737
radiation effects on permeation of plasma, into blood vessels in muscles, skin, and tumors in rats, x, 24:21288
radiation effects on phenylalanine incorporation into, of fetal rats, x, 24:41960 (BRH/DBE-70-1, pp 95-151)
radiation effects on phosphorus-32 uptake by, of calcified tissues in rats, 500 R x, 24:27538
radiation effects on photoluminescence of, review of uv, 22:33710(T) (JPRS-41315, pp 4-15)
radiation effects on physical mechanisms in inactivation of, electron and uv, 25:46499(R) (COO-1155-8-1)
radiation effects on plasma, in chickens, effects of thymectomy on cobalt-60 γ, 23:35878
radiation effects on production of free radicals in lyophilized, comparison of effects of electric discharge and γ, 25:18906
radiation effects on production of, in bone marrow cells of rabbits, effects of dose on, 24:36803
radiation effects on properties of monomer-impregnated shaped articles of, 21:10404(P)
radiation effects on quality of, in brain and liver of animals, effects of hydrocortisone on x, 24:9755
radiation effects on quality of, in meats, 22:52061 (CONF-670945)
radiation effects on quantitative composition of, in rat blood, γ, 21:6439
radiation effects on rabbit blood serum, chronic zinc-65 γ, 25:21878
radiation effects on rat liver microsomal structural, x, 25:39919
radiation effects on rate of amino acid incorporation in rabbit lymphocyte, carbon-14 tracer study of γ, 25:35104
radiation effects on rate of excretion of blood plasma, in feces of mice, dose dependency of x, 25:21832(T) (BNWL-tr-64)
radiation effects on rate of metabolism of, in mice, tracer study of effects of dose on whole-body x, 23:33645
radiation effects on rate of synthesis of, in HeLa cells, 21:20089
radiation effects on ratio of serum, of rabbits, effects of immunization on zinc-65 γ, 25:21879
radiation effects on ratio of, to DNA in slime molds, 22:43480
radiation effects on reactions of, with corticosteroids in plasma of rabbits, γ, 21:34608
radiation effects on recombination of unpaired electrons in, γ and uv, 22:33747
radiation effects on relative content of water soluble and insoluble, in lens of dogs, radium-226 α and γ and strontium-90 β, 24:29860 (UCD-472-116, pp 57-9)
radiation effects on replenishment of, in heart of rabbits, x, 24:48428
radiation effects on sedimentation of, uv, 22:36161
radiation effects on serum composition of, in goats, x, 21:22657
radiation effects on serum, in man following therapy, 22:6839
radiation effects on serum, in mice, protective effects of benzimidazole and imidazole against x, 23:29584
radiation effects on serum, in mice, x, 23:26686 (NP-17819, Chap.3.3)
radiation effects on serum, in relation to atherosclerosis, uv, 22:45645
radiation effects on serum, of chickens exposed during embryonic period to α, 21:28626
radiation effects on serum, of chickens, effects of bursectomy on, 23:41439
radiation effects on serum, of dogs, effects of laparotomy and splenectomy on, 21:13027
radiation effects on serum, of mice, effects of thymectomy on x, 22:28379
radiation effects on serum, of mice, immunoelectrophoretic analysis of mixed gamma-neutron and 14 MeV neutron, 22:30960
radiation effects on soluble, in tissues of brain and intestinal walls of rats, 22:28696
radiation effects on soybean, cathode-ray electron, 25:44393
radiation effects on stained, 21:24335
radiation effects on structural, in fish, 22:4722
radiation effects on sulfhydryl group in cell, in relation to sensitivity of transplanted tumors in rats, 25:42618
radiation effects on sulfhydryl groups in phosvitin and vitellin, of hen eggs, x, 22:23439
radiation effects on susceptibility of, in erythrocyte cell membranes to enzymatic hydrolysis, x, 22:23442
radiation effects on synthesis in rat thymocytes, x, 21:1718
radiation effects on synthesis in soybean seeds in relation to variety, γ, 25:52262
radiation effects on synthesis of, 24:4594 (EUR-4249)
radiation effects on synthesis of, 24:21270
radiation effects on synthesis of kidney soluble, in rabbits, electrophoretic and tracer study of x, 22:33739
radiation effects on synthesis of kidney, determination of, by autoradiography and electrophoresis, x, 23:47952(T) (AEC-tr-6871/6, pp 95-101)
radiation effects on synthesis of phiX174 phage-specific, by Escherichia coli, analysis of intermediates following uv, 24:25392
radiation effects on synthesis of phiX174 viral, in Escherichia coli, 25:46720
radiation effects on synthesis of plasma, in rabbits, tracer study of acute, 22:43250
radiation effects on synthesis of plasma, in rat liver cells, use of tritium-labeled leucine for detecting x, 24:11945
radiation effects on synthesis of plasma, in rats, whole-body fast neutron, 22:6752
radiation effects on synthesis of, at various sites in HeLa cells, uv microbeam, 22:36217
radiation effects on synthesis of, by Escherichia coli, effects of glucose, histidine, thymine, or uracil starvation on uv, 22:47451
radiation effects on synthesis of, by liver microsomal fractions in rats, subsequent whole-body γ, 25:27006
radiation effects on synthesis of, by liver mitochondria of rats, whole-body x, 22:453
radiation effects on synthesis of, by liver ribosomes of guinea pigs, acute x, 23:4899
radiation effects on synthesis of, by mammalian cells, 21:45514
radiation effects on synthesis of, by ribosomes, γ, 22:33993
radiation effects on synthesis of, by slime mold, uv, 23:50935
radiation effects on synthesis of, by synchronous HeLa and human leukemic cells, tracer study of x, 22:8436(R) (NYO-910-58)
radiation effects on synthesis of, effects of uv on, in Escherichia coli, 21:1845(R) (NYO-3511-2)
radiation effects on synthesis of, in Acetabularia and Phaseolus, γ, 25:24043
radiation effects on synthesis of, in Azotobacter, γ, 22:21428
radiation effects on synthesis of, in barley, fast neutron, 24:17164
radiation effects on synthesis of, in biological materials, laser, 24:2569
radiation effects on synthesis of, in Blepharisma during regeneration, carbon-14 tracer study of uv, 25:26648
radiation effects on synthesis of, in bone marrow cells and reticulocytes of rabbits, combined effects of dose and massive hemorrhage on γ, 24:11953
radiation effects on synthesis of, in bones, x, 21:3443
radiation effects on synthesis of, in cell fluid and microsomes of liver and spleen, 23:4875
radiation effects on synthesis of, in cell nuclei of rat liver, intestine, and spleen, γ, 21:8719
radiation effects on synthesis of, in cell-free system, 23:9831 (NP-17514, pp 5-24)
radiation effects on synthesis of, in cells of Drosophila, mice, and rats, x, 24:34120
radiation effects on synthesis of, in chick embryos, x, 21:34739(R) (COO-1270-1)
radiation effects on synthesis of, in chicken embryos, phosphorus-32 β, 24:32213
radiation effects on synthesis of, in Chinese hamsters, microwave, 24:12053
radiation effects on synthesis of, in Chinese hamster cells, effects of age on x, 22:25786
radiation effects on synthesis of, in Chlamydomonas, synergistic effects of antinomycin D or chloramphenicol on γ, 21:34824
radiation effects on synthesis of, in cotyledons of peanut seeds, x, 22:31014
radiation effects on synthesis of, in cultured Chinese hamster cells, combined effects of virus infections on x, 24:50744
radiation effects on synthesis of, in cultured fibrosarcoma and L cells, electron and γ, 25:52176 (A/CONF.49/P-358)
radiation effects on synthesis of, in cultured hamster cells following virus infection, x, 23:16234
radiation effects on synthesis of, in cultured mammalian cells, x, 23:9834(R) (NYO-910-70)
radiation effects on synthesis of, in cultured rabbit lenses, carbon-14 tracer study on effects of naphthalene and x, 25:26649
radiation effects on synthesis of, in developing brain of newborn rats, x, 21:36488
radiation effects on synthesis of, in Dictyostelium, effects of mitotic stage on, 24:27721
radiation effects on synthesis of, in dividing cells, effects of, on inhibition of mitosis, 23:2740(R) (COO-78-174)
radiation effects on synthesis of, in E. coli, quantitative analysis of uv, 21:16315
radiation effects on synthesis of, in Ehrlich ascites cells, γ, 22:14917
radiation effects on synthesis of, in endocrine glands of animals, ionizing, 24:7734

radiation effects on synthesis of, in Escherichia coli, effects of energy, thymine, or uracil starvation on uv, 22:40566
radiation effects on synthesis of, in Escherichia coli, combined effects of reductone and uv, 25:13610
radiation effects on synthesis of, in Escherichia coli, combined effects of alkali metal halides on γ, 24:6147
radiation effects on synthesis of, in Escherichia coli and mutant bacteriophage, uv, 23:35700
radiation effects on synthesis of, in Escherichia coli, effects of dose on uv, 23:33632
radiation effects on synthesis of, in fetal rat liver, effects of dose on x, 22:12897 (SZS-12/67)
radiation effects on synthesis of, in fetal rat livers following exposure in utero, cobalt-60 γ, 24:34097
radiation effects on synthesis of, in granular cells of human epidermis, uv, 22:10726
radiation effects on synthesis of, in gray and white matter of brain of rabbits, whole-body x, 24:48426
radiation effects on synthesis of, in hamster cells, x, 22:28274 (ANL-7278, pp 250-82)
radiation effects on synthesis of, in HeLa cells, x, 24:31854
radiation effects on synthesis of, in HeLa cells, effects of irradiation of various cellular sites on uv, 21:14608
radiation effects on synthesis of, in isolated mitochondria of pear fruits, effects of cycloheximide or puromycin on γ, 23:29346(R) (UCD-34-P-112-41)
radiation effects on synthesis of, in L cells of mice, effects of tritium-labeled thymidine on β, 22:19274
radiation effects on synthesis of, in liver and spleen of rats, x, 23:17952
radiation effects on synthesis of, in liver mitochondria of rats, comparison of effects of testosterone to small-dose x, 25:46730
radiation effects on synthesis of, in liver of human children, polonium-210 α and γ, 24:14612
radiation effects on synthesis of, in mammalian cells, review of uv, 25:21806
radiation effects on synthesis of, in mammary tissues of lactating rats, γ, 23:16227
radiation effects on synthesis of, in mammary tumor cells of mice, x, 22:36360
radiation effects on synthesis of, in man in relation to tryptophan excretion patterns, x, 22:45508(R) (PG-Report-826)
radiation effects on synthesis of, in Micrococcus radiodurans, dose dependence of gamma, 25:26639
radiation effects on synthesis of, in mitochondria of ripening pear fruits, γ, 22:49637
radiation effects on synthesis of, in mitochondria of pears, γ, 21:10820
radiation effects on synthesis of, in neuroglia cells and neurons of rabbits, x, 24:31848
radiation effects on synthesis of, in peanut seedlings, effects of seed exposure on x, 22:40959
radiation effects on synthesis of, in perfused rat liver, x, 25:13373
radiation effects on synthesis of, in plants, effects of seed exposure on x, 23:29343(R) (COO-1313-22)
radiation effects on synthesis of, in pre-immunized rats in relation to albumin and globulin content of serum, 22:25771
radiation effects on synthesis of, in rabbits with nephritis, x, 22:6751
radiation effects on synthesis of, in radiosensitive mutants of Saccharomyces, uv and x, 22:38240
radiation effects on synthesis of, in rat liver following partial hepatectomy, x, 24:14432
radiation effects on synthesis of, in rats, mechanisms for γ and x, 24:9752(R) (COO-1754-2)
radiation effects on synthesis of, in rats, protective effects of radioprotective compounds in combination with therapeutic agents against, 21:3427
radiation effects on synthesis of, in regenerating liver, x, 21:28381
radiation effects on synthesis of, in ribosomes of E. coli, uv, 21:43327
radiation effects on synthesis of, in sea urchin eggs, γ, 21:14743
radiation effects on synthesis of, in seeds of barley, γ, 22:28709
radiation effects on synthesis of, in synchronized Chinese hamster cells, effects of cycloheximide on x, 25:32557
radiation effects on synthesis of, in yeast cells in relation to mutation induction, uv, 25:44980
radiation effects on synthesis of, review of, 21:30786
radiation effects on synthesis of, x, 21:22400
radiation effects on tissue, uv, 24:32210
radiation effects on tomato, effects of developmental stage on repair of γ, 25:46742
radiation effects on transport of phosphate and water-soluble, between cell fractions of rats, x, 23:43695
radiation effects on transport of, from microsomes to mitochondria in liver of rats, 23:17957
radiation effects on uptake of leucine by, of sea urchin eggs, γ, 22:12799
radiation effects on uptake of selenium-75 and sulfur-35 in rat organ, x, 25:42264
radiation effects on uptake of, by lymph nodes, spleen, and thymus of guinea pigs, x, 22:14975
radiation effects on utilization of, from wheat bran by chickens, 23:20124
radiation effects on viscosity of, effects of radiation dose on γ, 24:2247
radiation effects on water solubility of, from rat liver, γ, 22:52091
radiation effects on, analysis of, γ, 21:26386
radiation effects on, annealing response following, 21:22330
radiation effects on, determination of, by uv fluorescence spectra, 22:36176
radiation effects on, effects of irradiation atmosphere on γ, 22:45133
radiation effects on, effects of sodium benzoate and sodium glutamate on γ, 22:40108
radiation effects on, effects of time on viscosity following γ, 24:253
radiation effects on, EPR study of effects of glycine on γ, 22:28366
radiation effects on, γ, 22:25388
radiation effects on, in animal cells, laser, 23:41420
radiation effects on, in blood of adrenalectomized pregnant rats, x, 24:36700
radiation effects on, in blood of catfish, effects of thyrotropin on phosphorus-32 β, 25:590
radiation effects on, in blood of rats, protective effects of drugs against β, 21:45643
radiation effects on, in brain of rats, effects of seasons on x, 23:35660
radiation effects on, in fish embryos, x, 22:51353
radiation effects on, in food, review of, 22:49676
radiation effects on, in foods, 22:31306
radiation effects on, in foods, 23:12252(T) (ORNL-IIC-14, pp 67-81)
radiation effects on, in human blood plasma, γ, 22:52096
radiation effects on, in living systems, uv, 24:7757
radiation effects on, in myoglobin from muscles of exposed dogs, x, 25:44767
radiation effects on, in papaya, γ, 22:45737
radiation effects on, in rat skin, chromatographic and electrophoretic analysis of x, 22:51886
radiation effects on, in spectropolarimeters, method for determining uv, 24:23117
radiation effects on, in urine of rats, γ, 22:51384
radiation effects on, in wheat, cobalt-60 γ, 23:16435
radiation effects on, ionizing, 23:18118
radiation effects on, of coat of bacteriophage particles, γ, 24:6150
radiation effects on, of DNA, effects of, on type of mutation induced in genes, uv, 22:25784
radiation effects on, of food, effects of, on utilization by uv-irradiated rats, comparison of heat-sterilization and γ, 23:957
radiation effects on, of lychee nuts, combined effects of storage on γ, 23:10146 (UH-235-P-5-3, pp 140-8)
radiation effects on, of phi X 174 phage following treatment with 5-bromouracil, uv, 22:47558
radiation effects on, of rat liver cells, effects of thyroxine on x, 24:51065
radiation effects on, of shrimp, metabolism in rats following γ, 23:954
radiation effects on, of wheat flour, effects of dose on γ, 22:49665
radiation effects on, of wheat grains, effects of dose on γ, 23:12250(T) (ORNL-IIC-14, pp 20-32)
radiation effects on, recombination of free radicals from, 21:22330
radiation effects on, review of, 22:49224
radiation effects on, review of uv, 21:12765
radiation effects on, use as biological dosimeter, 25:44809
radiation effects on, uv, 23:8072
radioactivity of mercury-203 in, of rat brain, 21:14568
radioimmunoassay determination of nanogram amounts of, in blood, 23:33592
radioinduced changes in covalent bonds and secondary and tertiary structures of globular and fibrous, 22:25779
radioinduced changes in electrophoretic pattern of human serum, during therapy for cervical carcinoma, radium γ, 24:29884
radioinduced changes in electrophoretic pattern of blood serum, in rabbits, protective effects of injections of lysozyme against x, 25:16229
radioinduced chemiluminescence of aqueous solutions of, x, 23:4700
radioinduced coagulation of, in man, laser, 21:41510
radioinduced decomposition of animal, in relation to meat preservation, 24:6162
radioinduced delay of synthesis of, combined effects of inhibitors on γ, 21:39530
radioinduced denaturation of, in tissues of eyes of rabbits, laser, 21:26642
radioinduced denaturation of, in tobacco mosaic virus, uv, 22:8663
radioinduced derangement of synthesis of, in liver, x, 21:6458
radioinduced disorders in metabolism of, use of anabolic steroid "methenolone" for treatment of, 21:28572
radioinduced formation of immunoglobulin-like, in bursectomized chickens, x, 25:57934
radioinduced fraction of sarcoplasmic, in meats, 25:21995
radioinduced fragmentation of arachin, from peanut cotyledons, γ, 25:49111
radioinduced free radical formation in, ESR studies of, 23:35652
radioinduced free radicals in cell, γ and uv, 25:35203
radioinduced free radicals in dry, distribution of γ, 22:14938
radioinduced free radicals in, charged particle, 22:28368
radioinduced free radicals in, comparison of content of, with content in DNA, 21:26401
radioinduced free radicals in, EPR spectra of uv, 22:47459
radioinduced genetic changes in, reversion of, 21:22394
radioinduced hybridization of, x, 22:47476
radioinduced inactivation of disulfide, equations for estimating quantum yields for uv, 21:18003
radioinduced inactivation of, in acidic and neutral solutions, effects of content of disulfide bonds on uv, 21:36527
radioinduced inactivation of, reaction mechanisms for low-energy electrons, 24:48436
radioinduced inactivation of, review of mechanisms of uv, 25:26644
radioinduced increase of content of, in serum of rabbits, x, 21:39361
radioinduced increase of, in corn and radishes, effects of seed exposure on x, 22:38499(T) (JPRS-44845)
radioinduced inhibition of synthesis of, effects of drugs on, x, 21:32718
radioinduced inhibition of synthesis of, in grapefruit peel, effects of ethylene on γ, carbon-14 tracer study, 24:48421
radioinduced inhibition of synthesis of, in liver of mice, combined effects of fibroplastic dust on plutonium-239 α, 23:35640
radioinduced leakage of, from intestines of mice, neutron and x, 22:49557
radioinduced leakage of, from lysosomes, γ, 22:19256
radioinduced loss of, from foods, 22:47659
radioinduced loss of, in irradiated food preserved by ionizing radiation, 22:43514
radioinduced luminescence in, effects of cysteine, propylgallate, and temperature on γ and x, 22:28302
radioinduced luminescence of, 22:14519(T) (CEA-tr-R-1907)
radioinduced modification of, use of specific protein—protein interactions in studies of, 25:42303
radioinduced mutations for content of, in rice, γ, 23:48260
radioinduced mutations for production of, in barley, economics of x, 25:24105
radioinduced mutations for production of, in rice, economics of γ, 25:24102
radioinduced mutations for production of, in wheat, γ, 25:24104
radioinduced mutations for variation in, of tobacco, effects of seed exposure on β, 22:31017 (BNL-10549)
radioinduced mutations in corn and peas for production of, 25:24110
radioinduced mutations in corn for production of, x, 25:24103
radioinduced mutations in crops for production of, methods of selection following, 25:24111
radioinduced mutations in lupin and wheat for production of, γ, 25:24106
radioinduced mutations in peas for production of, x, 25:24109
radioinduced precipitation of, effects of, on solubility in urea, γ, 24:31843(R) (UCB-34-P-95-17)
radioinduced structural modification of macromolecules of, ionizing, 21:24314
radioinduced synthesis of phage-specific, in Escherichia coli following infection with phiX174 bacteriophage, electrophoretic study of uv, 24:2571
radioinduced synthesis of phage-specific, in phiX174 phage-infected cells of Escherichia coli, uv, 24:2572
radioisotope binding by blood serum, in rats in relation to accumulation by bones and soft tissues, cesium-137, strontium-90, and yttrium-91, 24:571
radioisotope content of concentrates of, from pelagic fish, 25:10997(R) (RLO-2225-T-14-1)
radioisotope content of fish, 25:13394(R) (RLO-2099-1)
radioisotope content of, in surface feeding marine fish, 25:37721 (RLO-2225-T-14-2)
radioisotope determination of content of, in body of animals and man, review of hydrogen, 23:22217
radioisotope uptake by, in rat blood serum, iodine-125 and iodine-131, 24:19282
radioisotope-labeled, effectiveness for scanning brain tumors, 24:29796
radiolysis in aqueous solutions, γ, 22:52097
radiolysis in excised human tissues in transplant banks, 24:11989
radiolysis in meat products in relation to taste, 22:8673
radiolysis in yeasts, effects of copper ions on, 22:19458
radiolysis of crystallized, electron or x, 23:13781
radiolysis of cystine in, uv, 21:36528
radiolysis of dry nonhydrogen-sulfide bond-containing, effects of temperature on distribution of carbon radicals following γ, 25:6651
radiolysis of lyophilized, use of gaseous tritiated radical scavengers for studying secondary free radical distribution in γ, 23:47524
radiolysis of solid, effects of structure on yields from, 24:22697
radiolysis of solid, methods for studying free radicals produced by, review on, 23:49831
radiolysis of, effects of aromatic hydrocarbons on γ, 23:35150
radiolysis of, mechanism of, 23:19757
radiolysis of, use of tritiated hydrogen sulfide in determination of free radicals from γ, 22:8144
radioprotective effects of amines and thiols on sorption properties of, in brain, 23:29582
radioprotective effects of benzimidazole and imidazole on content of fractions of serum, in mice, 23:29342 (CEA-R-3679)
radioprotective effects of blood serum, from sheep against leukemia in mice, x, 23:29570(R) (COO-1391-17)
radioprotective effects of coat of, on tobacco mosaic virus, uv, 21:34828
radioprotective effects of dietary, on cesium-137 content and organ resistance in rats, 25:32455
radioprotective effects of injected, on dogs, x, 23:6583
radioprotective effects of injections of foreign, on hematopoietic spleen colony formation in mice, cobalt-60 γ, 23:29588
radioprotective effects of serum, on rat erythrocytes, γ, 21:36664
radioprotective effects of tobacco mosaic virus, against inactivation of infectivity of RNA, uv, 22:28321
radioprotective effects of, against leukemia in mice, x, 24:34384(R) (COO-1391-21)
radioprotective effects of, on botulinum type E toxins, α, 24:50725
radiosensitivity in relation to biological properties, review of, 24:50722
radiosensitivity of urea-mercaptoethanol-soluble, from bacterial spores, uv, 24:16998
radiosensitivity of, effects of sulhydryl groups on γ, 21:36497
reactions of deuterium-labeled, in phycocyanin, 21:26373

- reactions of hydroxy radicals with, 21:10724(R) (NP-16209)
- reactions of serum, with thyroid hormones, clinical applications of, 23:11955 (CONF-671111-, pp 273-91)
- reactions of, with DNA in uv-irradiated E. coli, 21:14586
- reactions with chromium-51 in human hemoglobin, mechanisms for, 23:12000(T) (TT-67-56003/5, pp 710-20)
- reactions with injected plutonium-239 in blood of dogs, 22:36204
- reactions with metal ions, structural changes produced in, 25:54392 (UR-49-1494)
- reactions with plutonium in blood serum, 21:24288 (COO-119-235, pp 76-95)
- reactions with sodium tripolyphosphate in relation to improved radiation processing treatments, 23:41523 (TID-24317, pp 116-135)
- reduction of disulfide bonds of, with sodium hypophosphite, effect of uv radiation on, 21:10808
- removal of bound cadmium from, by chelation with mercapto-containing reagents or EDTA, 24:16651
- removal of bound mercury from, by chelation with penicillamine or N-acetylpenicillamine, 24:16651
- removal of bound zinc from, by chelation with EDTA or DTPA, 24:16651
- requirements in relation to potassium during exercise in young man, use of potassium-40 and whole-body counting to determine, 24:19287 (MIT-952-6, pp 155-63)
- role as source of carbon atoms for synthesis of glycogen and lipids in rat liver, carbon-14 tracer study of, 24:34078 (UR-49-1290)
- role as source of carbon for synthesis of glycogen and lipids in liver of x-irradiated rats, carbon-14 tracer study of, 25:46736
- role in radiostrontium sorption in duodenum of rats, 24:36687
- role in uv-radioinduced inactivation of thromboplastin, 22:47588
- role of, in rejoining of radioinduced chromosome breaks, 21:16331
- selenium-75 distribution in serum, of man and rat, 21:8683
- selenium-75 uptake by blood plasma, of rats from labeled methionine, 22:30979
- separation by centriphoresis, 22:14429 (ORNL-4196, pp 44-54)
- separation by thin-layer chromatography, 22:14428 (ORNL-4196, pp 33-44)
- separation by zonal centrifugation, 21:22772
- separation of iodides from, after radioiodination, microscale, 25:34700
- separation of iodine-131-labeled milk, from whole milk, 24:48361
- separation of iodine-131-labeled, in serum using electrophoresis, 21:14580
- separation of ribosomal, by electrophoresis, 22:7953(R) (NYO-910-61)
- separation of water-t from solutions of, for liquid scintillation counting, 23:2239
- separation of, use of chromatographic, electrophoretic, and density gradient centrifugation methods for, 21:8671 (COO-78-142, pp 82-119)
- serological characteristics of, in various plant species, 21:8776
- sorption by plant roots, 21:20031(R) (UCB-34-P-50-3)
- spectra of globular, in heavy water, study on position of amide and peptide bands in ir, 25:34588
- spectrum of, design of whole-body spectrometer for detection of NMR, 22:45279 (LA-3966)
- stability of tritium-labeled, in metabolic processes, 22:51461
- strontium binding by, in blood serum in rabbits, 22:30999
- structural integrity of, effects of, on fluorescence of phycoerythrin, 22:43205(R) (COO-894-30)
- structure in Salmonella typhimurium, genetic determination of primary, 21:22233 (BNL-994, pp 113-23)
- structure of, methods for determining, 21:22233 (BNL-994, pp 113-23)
- structure of, neutron diffraction techniques for study of, 25:3907 (NP-18462)
- sulfur bonding in, electron spectroscopic studies of, 21:3375 (UCRL-16806, pp 6-8)
- sulfur-35 uptake by, in corn roots, periodicity of, 23:50286
- synthesis by chromatin, effects of physical state of chromosomes on, 23:33626(R) (ORO-3546-7)
- synthesis by Escherichia coli infected with different bacteriophages, 21:13078
- synthesis by Escherichia coli, effects of canavanine on, 21:47007(R) (COO-1562-2)
- synthesis during cell cycle of Anacystis nidulans, 24:36742
- synthesis during conjungation of Escherichia coli, 22:28404 (ORNL-4100, pp 97-103)
- synthesis during development of sea urchin eggs, 22:38193(R) (EUR-3912)
- synthesis during mitotic cycle of sea urchin eggs, effects of puromycin on, 22:25712 (COO-78-163, pp 39-63)
- synthesis during mitotic cycle of slime mold, electrophoretic and tracer study of, 22:25713 (COO-78-163, pp 64-125)
- synthesis during mitotic stages of HeLa cells, determination by carbon-14 and tritium, 23:31621
- synthesis during spermatogenesis in Drosophila, effects of inhibitors on, 22:28668
- synthesis in animals, tracer study of mechanisms for, 23:50240
- synthesis in anucleate frog oocytes, regulation of, 25:46372 (CONF-710620-1)
- synthesis in bacteria and animals, reaction mechanisms for, 22:51302(R) (HUX-2643-42)
- synthesis in biological systems, 22:38192(R) (EUR-3607)
- synthesis in biological systems, 21:16261(R) (EUR-3059.f)
- synthesis in bone marrow cells of rats, effects of erythropoietin on, 23:767 (ACRH-1000-67)
- synthesis in cell cultures from pituitary gland of rats, effects of hypothalamic extracts on, 22:12175(R) (NYO-3827-3)
- synthesis in cells of chicks, effects of RNA-oncogenic virus on, 22:51302(R) (HUX-2643-42)
- synthesis in cells, tracer study of molecular mechanisms at subcellular levels for, 23:45617
- synthesis in cultured mammalian cells, effects of, on DNA synthesis, early and late, 23:9834(R) (NYO-910-70)
- synthesis in delayed implanting mouse ova, 25:37183(R) (COO-1801-17)
- synthesis in Escherichia coli, ability of lethally uv-irradiated bacteriophage phi x 174 to inhibit, 24:14633
- synthesis in Escherichia coli, effects of deuterated media on, 25:49086
- synthesis in grasshopper embryos, effects of physical state of chromatin on, 21:22241(R) (ORO-3546-3)
- synthesis in HeLa cell cultures, effects of material from liver of γ-irradiated rats on, 23:35843
- synthesis in human lymphocyte chromosomes, use of x-radioinduced aberrations for study of, 23:31715
- synthesis in intact Escherichia coli minicells, biochemical studies on, 25:49112
- synthesis in mammalian eggs and mammary glands, review of tracer studies on, in France, 24:25378
- synthesis in mitochondria of Tetrahymena, mechanisms of, 22:1926(R) (NYO-3588-6)
- synthesis in mouse ova, 24:31162(R) (COO-1801-9)
- synthesis in nerve fibers of giant squid, tracer study of sites of, 25:4418
- synthesis in Neurospora, mechanisms for, 23:6342 (BNWL-714, pp 7.1-26)
- synthesis in parathyroid and thyroid glands of rats, selenium-75 tracer study of, 23:43808(R) (NYO-3442-15)
- synthesis in radioresistant mutants and wild types of Escherichia coli, effects of p-fluorophenylalanine on, 22:45733
- synthesis in rat liver, effects of γ-irradiated sucrose solutions on, 23:35977
- synthesis in rat tissues, effects of γ-irradiated sucrose solutions on, tracer study of, 23:16417
- synthesis in regenerating rat liver, effects of x radiation on leucine and lysine incorporation into, carbon-14 tracer study of, 24:31855
- synthesis in tobacco mosaic virus, carbon-14 and tritium tracer study of, 25:2551(R) (COO-873-28)
- synthesis in vaccinia virus-infected cultured cells, relation of, to virus pathology, 23:50385
- synthesis in viruses, 22:2502 (AECL-2665)
- synthesis in vitro, functions of DNA, RNA, and RNA-polymerase in, 22:40615(R) (EUR-3889)
- synthesis in x-irradiated hamster cells, effects of, on recovery, 23:11930(T) (AEC-tr-6646/4A, pp 25-9)
- synthesis of effects on repair of damaged bacterial DNA, 21:22392
- synthesis of lens, in cultured epithelial cells, 22:28283 (ORNL-4100, pp 75-96)
- synthesis of mitoribosomal, by mitochondria, 24:36118(R) (NYO-3588-21)
- synthesis of S-100, in clonal glial cell cultures, 25:48542 (UCLA-12-815, pp 37-62)
- synthesis of serum, in tissue cultures, use of radioimmunoelectrophoresis to study, 23:11968 (CONF-671111-, pp 589-606)
- synthesis of, conference on, 24:31933
- synthesis of, during recovery from radiation injuries in sea urchin eggs, 21:8910 (COO-78-142, pp 120-37)
- synthesis of, effect of tRNA on, 21:8675 (ORNL-3999, pp 134-9)
- synthesis of, effects of hormones on, 21:43331
- synthesis of, effects of inhibitors of, on uv and x-radioinduced repair synthesis in DNA, 24:50707(R) (COO-1747-3)
- synthesis of, effects of RNA species on, 22:28286 (ORNL-4100, pp 153-9)
- synthesis of, effects of, on β radiation effects on cistron function in phosphorus-32-labeled T4 bacteriophages, 21:26689
- synthesis of, effects of, on survival of γ-irradited Chinese hamster cells, 24:48587
- synthesis of, effects on radioinduced mutations in Drosophila germ cells, 21:22396
- synthesis of, in cell cultures, mechanism of action of metabolic inhibitors on, 21:14569
- synthesis of, in cultured animal cells, tracer study of, 21:8671 (COO-78-142, pp 82-119)
- synthesis of, in irradiated Pisum root meristem, effects of temperature on, 21:11120
- synthesis of, radioimmunoassay in human placenta using tritium, 24:9794
- synthesis of, reaction mechanisms for, 25:44259(R) (HUX-2643-61)
- synthesis of, relation of time of, to radioinduced chromosome aberrations, 21:16313
- synthesis of, research on biological, 24:53068(R) (UCB-34-P-167-2)
- synthesis of, research on mechanisms of, 24:38659(R) (HUX-2643-60)
- synthesis of, role of, in radiation repair processes of bacteria, 22:33752
- thorium-232 uptake by, in rat liver, 22:51371
- thyroid hormone binding by blood serum, 24:29647
- trace element content of, in surface feeding marine fish, 25:37721 (RLO-2225-T-14-2)
- transfer from cytoplasm to cell wall in higher plants, 24:29169(R) (UCSD-34-P-159-X-1)
- transfusion of plasma, for treatment of radiation sickness, 25:44844
- tritium binding to plasma, tritiated noradrenaline use in study of, 21:6414
- tritium exchange studies of, using dialysis method, 23:19726
- tritium uptake by, of brain in monkeys, 22:40572
- uptake of labeled, by tumors and normal tissues in mice, 21:20234(R) (NYO-2182-9)
- use for protection of DNA against radiation injury, 21:22639
- use of blood serum, as biochemical indicator of radiation injury in man and rats, 23:915
- use of labeled macromolecular, as tracers for scanning brain tumors, 21:20234(R) (NYO-2182-9)
- use of radioisotope-labeled, for scanning, 23:50726
- x-ray crystallography of Bence-Jones, 25:37857 (ANL-7770, pp 76-100)
- x-ray crystallography of Concanavalin A, 24:41949 (ANL-7635, pp 229-91)
- yttrium-88 distribution and retention in rat plasma, effects of dilution on, 25:29454
- zinc-65 content of, in maize seedlings, 22:45403

PROTEUS Reactor
  - see Reactors, Research

PROTHROMBIN
- effects on blood coagulation system in irradiated animals, 24:7753
- radiation effects on content of, in blood of rats, whole-body x, 21:41484
- radiation effects on content of, in human blood, ionizing, 22:52008
- radiation effects on, of human blood, effects of dose on γ, 24:32336

Prothrombinase
  - see Thromboplastin

Protium
  - see Hydrogen

PROTOCATECHUIC ACID
- complexes with EDTA and thorium(IV), stability constants of, 25:6330

PROTON BEAMS
  - see also Proton Beams (anti p)
- acceleration in electron-ring accelerators, 25:25582
- acceleration of, design of isochronous cyclotron for, 22:29800
- calibration using reactions (p,n) with nickel-58, 24:30651
- characteristics of 440-MeV, for use in therapy of human malignancies, 25:19087
- charge exchange systems for neutralizing, carbon dioxide and magnesium, 22:15333
- charge neutralization in, cross-beam technique for, 25:55816
- collision damping mechanisms between electrons and, in nonrelativistic case, 23:28000
- current density of pulsed, device for measuring, 21:7606
- current measurements of pulsed, method for, 23:46883
- current saturation in acceleration tubes with strong-focusing, 23:19091
- cyclotron instability of magnetospheric, interpretation of PPi bursts by, 24:12751
- density profile monitor for linac, design and performance of nondestructive, 23:19037 (BNL-50120(Pt.1), pp 190-7)
- dose to monkeys, measurement of whole-body, 23:20237
- dynamics of, computer programs using linearized space-charge forces for calculation of first order, 23:32860 (BNL-13710)
- effects on dogs, protective effects of partial-body shielding against high energy, 24:878
- emittance and transverse phase space distribution in AGS, 21:44468 (BNL-11765)
- energy and energy spread of, measurement using oxygen-16 (p,γ) reactions and lithium-drifted germanium detector, 25:50266
- energy measurement of, techniques for, 24:8832(R) (UCLA-10-P-18-13)
- energy of extracted, from cyclotrons, device for measuring, 23:30902
- energy of, method for precision measurement of, 23:21211
- focusing by quadrupole lens using permanent ceramic magnets, 21:31676
- focusing of 3 MeV, magnetic quadrupole system for, 24:22022 (AERE-R-6300)
- focusing of, effects of, on dose distribution in radiotherapy, 21:12893(T) (UCRL-Trans-1333)
- injection of polarized, in cyclotrons, 21:31671
- intensity after emerging from extented source and passing two shutters, effects of weak electric and magnetic fields on, 24:51870
- intensity of, effect of charge distribution on maximum, 25:53457
- interactions with arc discharge helium and hydrogen plasma, energy losses in, (E), 22:39124
- interactions with bounded electron plasma, oscillations from, (E), 23:25320 (BMwF-FBK-69-3, pp 19.1-19)
- interactions with electron plasma, hf instabilities from, (E), 23:51628
- interactions with potassium plasma, oscillations from, 22:13458
- interactions with turbulent plasma, diagnostic use of, 25:43339 (IYAF-7-70)
- monitoring at 800 MeV based on forward scattered electrons in beryllium target, method for energy and intensity, 25:25565 (LA-4612)
- monitoring by nuclear reactions, effect of thick targets on, 22:15895
- monitoring of 4- to 12.5-GeV/c, performance of secondary emission monitors for, 23:28164
- monitoring of high-energy high-intensity, using dielectric track detectors, 25:2434 (CERN-70-27)
- monitoring of intensity and time distribution of, system for pre-target, 25:36631
- monitoring of particle distribution in, x-ray fluorescence probe for, 25:20138
- monitoring of, by measuring secondary electron emission from targets, 21:41202 (CERN-67-17)
- monitoring of, europium-activated yttrium orthovanadate phosphor for, 23:23581

monitoring on internal accelerator targets, telescope detector system for, 25:31064
monitoring on internal target of high-energy accelerators, methods for, 25:31043 (NP-18776)
neutralization of 1- to 15-keV, engineering drawings of cross-beam water-vapor device for, 24:39819
neutralization of 2-keV, crossed-beam water-vapor method for, 24:10363 (UCRL-50754)
oscillations in storage rings, method for damping, 21: 37983
phase density distribution in intense, from duoplasmatron source, 24:30654
phase density in intense, from duoplasmatron source, redistribution of, 25:5458 (NP-18510)
polarization by strong interaction scattering in storage rings, 22:44555
polarization in 3-GeV synchrotron, depolarization effects on, 22:15883(T) (ANL-Trans-570)
polarization in weak-focusing constant-field cyclic accelerators, (T), 22:39529
polarization measurements at 40 to 50 MeV, carbon-12 elastic scattering analyzer for, 24:13243
polarization measurements of, double-scattering silicon analyzer detector system for, 24:44277
polarization measurements of, Lamb-shift polarimeter for, 25:4391 (LA-4465, pp 17.1-6)
polarization measurements of, Lamb-shift polarimeter for, 25:53474
polarization measurements of, magnetic spectrometer for, 24:18338
polarization of 8- to 12-MeV, quenching-ratio method for determining, 25:48019
polarization of, design of system for, 22:7592
polarization of, double scattering arrangement for, 23: 34699
polarization of, effects of synchrocyclotron acceleration on, 22:9739
polarization of, left—right asymmetry in proton elastic scattering on carbon at 2.4 and 3.0 MeV for, (E), 23: 42826
polarization of, polarimeter for measuring, 23:23589
production and properties of 15- to 30-keV, 25:43109
production by ionization of hydrogen on neutral helium targets, 24:48997
production for plasma experiments, (E), 25:14353
production from electron reactions with beryllium at 18 GeV, (E), 23:49032
production in hot cathode constricted arcs, for plasma injection experiments, 25:30256 (EUR-4593, pp 75-81)
production of 10-keV, (E), 25:47323
production of 30-mA, performance testing of duoplasmatron ion source with 200-kV Pierce geometry for, 23:27943
production of intense low-energy, for plasma injection experiments, 24:45274 (ORNL-4545, pp 138-46)
production of low emittance, with single gap accelerator and duoplasmatron ion source, 22:11771
production of monoenergetic, design of isochronous cyclotron for, 22:46569 (JINR-P9-3932)
production of polarized, (E), 21:14949 (NP-16370)
production of polarized, in charge-exchange reactions, (E), 23:37097
production of polarized, source design for, 21:33168
production of polarized, using high-frequency transitions, 21:21337
production of polarized, using polarized source with charge exchange in gas tube, (E), 21:44597
production of pulsed, with tandem Van de Graaff accelerator, 21:42486 (UR-NSRL-2)
properties of UCLA 45-MeV polarized, 21:21355
pulsing of, design and performance of microwave system for, 22:5700
reactions with magnesium vapor at 10 keV, production of excited hydrogen atoms in, (E), 25:47323
reactions with magnesium vapors, device for neutralization in, 22:24030(T) (NP-tr-1642)
reactions with matter at 1 to 18 GeV, cascade calculations using Passow's approximation for, 23: 30746
scanning of, linear sawtooth pulse generators for electrostatic, 21:7603
shielding calculations for high-energy, 23:28066
shielding calculations for high-energy, at CERN accelerators, 24:23218
shielding for 28 GeV/c, accelerator beam stop, 24:45649 (CONF-691101-, pp 836-42)
shielding measurements at 14.6 and 26.4 GeV/c, 24: 10871 (UCRL-19367)
shielding measurements for external, at Harwell synchrotron, 23:3865 (RHEL/M-112)
space-charge effects in linacs, computer program for particle motion including, 22:22481 (BNL-12307)
sputtering effects on gold single crystal at 10 to 60 keV, channeling effect in, 23:14902
stability of colliding, in storage rings, 23:13152(T) (UCRL-Trans-1385)
storage in weak-focusing ring using charge-exchange method, 23:44789
transport at 28 GeV, measurement of beam loss during, 25:45873
transport in electromagnetic lenses, transformation matrix for beam ellipse matching in waist-to-waist, 25: 3521
transport of intense 500-keV, space charge neutralization studies for, 25:50554
transport system for high-energy, space-charge effects in, 23:10871 (BNL-13103)
use for high-energy nuclear research, (T), 23:19336 (RHEL/R-166, pp 41-65)
use for hypophysectomy in acromegaly patients, clinical analysis of, 24:803
use for industrial radiography, 22:28034
use for plasma jet diagnostics, 21:3825
use for therapy, 25:52151 (A/CONF.49/P-752)
use in microanalysis of alloys for elements of low atomic number, 22:30427 (BNL-50083, pp 192-202)
use of 800-MeV, in studies of short-lived radioisotopes, 25:44510 (BMBW-FBK-70-28, pp 99-103)

PROTON BEAMS (anti p)
contamination of 7-GeV/c, in BNL bubble chamber, use of delta-ray spectrum for determining, 22:36100
oscillations in storage rings, method for damping, 21: 37983
production from electron reactions with beryllium at 18 GeV, (E), 23:49032

PROTON CROSS SECTIONS
calculation for (p,n) charge exchange, using DWBA approximation with charge-independent formalism, (T), 23:11015
calculations for (p,n) charge-exchange, including compound nucleus effects, (T), 23:9044
cosmic-ray fragmentation, for interstellar space, (T), 22: 19810
energy dependence above 50 MeV for Z = 4 to 92 nuclei, 23:19250 (JINR-P2-4183)
library for, description of LRL evaluated, (E), 25:59783 (UCRL-50400(Vol.4))
measurement of total, associated-particle method for, 23: 7357
measurement of total, target chamber for, 25:20176
measurements for radioisotope production, (E), 23: 25901 (IN-1218, pp 73-138)
research at Oak Ridge National Laboratory, report to Nuclear Cross Section Advisory Committee, 24:38101 (ORNL-TM-2998)
resonance contributions to radiative transitions between unbound states, (T), 23:15515
resonance structure in, theory of isobaric analog, (T), 23:19253(R) (ORO-2972-80)
resonances in, description of isobaric analog, (T), 23: 9045
resonances in, phenomenological theory of analog, (T), 23:9054

PROTON MICROPROBE ANALYSIS
sensitivity of, of surfaces, 24:20694

PROTON-SCATTERING ANALYSIS
description of, by proton microscopy, 23:16675
equipment for, design of microscope, 22:43168
line intensities in films in, prediction of, (T), 23:18741
sensitivity for impurities in thin samples, 25:15528
single-crystal, blocking and intensity patterns from, 24: 5205

PROTON SOURCES
beam polarization from Lamb-shift polarized, static field method for enhanced, 22:37268
beams from duoplasmatron, redistribution of phase density in intense, 25:5458 (NP-18510)
construction for use in high-voltage terminal of pressurized accelerator, 21:21344
description and survey of positive polarized, 21:21339
description of polarized Lamb-shift, 24:30644
description of polarized, for Milan AVF cyclotron, 21: 21348
description of polarized, for Van de Graaff accelerator,, 25:53461
design and operation of Lamb-shift polarized, for Van de Graaff accelerator, 24:13236
design and operation of polarized, for Erlangen tandem accelerator, 24:30624
design and performance of 2- to 13.5-MeV, based on recoils from neutron irradiated plastic scintillators, 25: 25570 (MPI-PAE/EXTRATERR-31)
design and performance of hot-cathode, for modified CERN synchrocyclotron, 25:31158
design and performance of polarized, for Berkeley 88-inch cyclotron, 23:37044 (UCRL-18607)
design and performance of polarized, for Berkeley 88-in. cyclotron, 23:27963
design and performance of polarized, for tandem Van de Graaff accelerator, 23:49281
design and performance of solar wind simulator, 23: 17845
design for producing quasi-isotropic fluxes in energy range 1 to 10 keV, 21:44484
design of 0.5 keV, 22:32389
design of 15.8-MeV, using helium-3 reactions (He-3,p) with deuterium for measuring total cross sections of proton reactions, 23:8902
design of duoplasmatron, with high-gradient Pierce gun for preinjection in Brookhaven AGS, 24:26568
design of polarized, by excitation of 2S(1/2) metastable states, 22:7592
design of polarized, for 40-MeV linac, 22:39525
design of polarized, for Erlangen tandem accelerator, 21: 21343
design of polarized, for high-energy accelerators, 25: 12304 (JINR-P9-5446)
design of polarized, for pressurized Van de Graaff accelerators, 22:5699
design proposal for polarized, from hyperon (Λ^0) decay, 24:52263 (TID-25473(Vol.1), pp 19-25)
design proposal for polarized, from hyperon decay, 24: 52264 (TID-25473(Vol.1), pp 27-31)
development for ALICE injection device, 21:46306 (UCRL-50002-67, pp 7-58)
development of charge-exchange, for injection into accelerators and storage rings, 25:56590(T) (LA-tr-71-46)
development of polarized, 23:44799
development of polarized, 24:52563(R) (NP-18217)
development of polarized, for 6-MeV Van de Graaff accelerator, 25:14859
development of polarized, for tandem Van De Graaff, 23:1929(R) (COO-1265-67)
development of polarized, from charge exchange collisions between metastable H(2S) atoms and halogens, 25:3307
development of polarized, use of intermediate-field rf transition scheme for, 21:19302
emittance, intensity, and radial density of duoplasmatron, plasma expansion chamber study of, 24:15702 (CEA-CONF-1384)
hydrogen transformation efficiency in high-current, 22: 32385
ionizer for polarized, 24:22042
ionizers for polarized, design and performance of electron bombardment, 21:21342
operation of polarized, for Berkeley 88-inch cyclotron, 24:18322 (UCRL-18934)
properties of, lectures on, 24:10214 (CERN-69-12)
transport of short-lived, produced in nuclear reactions, helium-jet method for, 23:43578

PROTON SPECTROMETERS
amplifier and pulse analyzer for silicon semiconductor, used for spectroscopy on lunar surface, 22:12599
amplifier for satellite-borne, design of, 25:57821
background reduction in, 25:1739(R) (NYO-73-293)
calculations for recoil, from $n + p \rightarrow n + p$ interactions at high energies, 22:4470 (HASL-186)
calibration of electrostatic, for 10- to 10,000-eV auroral protons, 23:4831
calibration of magnetic, up to 1670 MeV/c, 22:47359 (CALT-68-153)
calibration of OV1-19 satellite-borne, 25:411 (AD-708466)
coincidence system for satellite-borne, design of, 25: 57821
collimator slit scattering effects at 20 MeV, 23:50211 (UCRL-18667, pp 343-80)
description, 23:30853 (IFA-CRD-37)
description of semiconductor—scintillation, for measurement of PCA events, 24:39326
design and fabrication for use on Javelin and Niros rockets for aurora studies, 23:38295 (AD-681454)
design and performance characteristics of Perlow recoil, 21:17861
design and performance for measurement of proton flux in auroral zones, 21:32436
design and performance of high-resolution silicon, 22: 352
design and performance of large-area scintillation, for energies up to 160 MeV, 23:9733
design and performance of lithium-drifted silicon, for photoproton experiments, 23:29212
design and performance of lithium-drifted silicon, for photoproton angular distribution and photoneutron—photoproton coincidence measurements, 25:48985
design and performance of magnetic, for momentum analysis of proton reactions (p,2p) with nuclei, 24: 2481
design and performance of satellite-borne lithium-drifted silicon, 24:4467
design and performance of time-of-flight, for measurement of proton recoil spectrum in neutron beta decay, 23:33471 (AD-680817)
design for satellites Proton-1 and 2, (E), 22:11284
design of double-focusing, with large energy acceptance, 23:47809
design of high resolution, for nuclear structure studies, engineering drawings for, 21:36401
design of lithium-drifted germanium total-absorption, for 100-MeV protons, 22:349
design of lithium-drifted silicon, for cosmic and solar spectroscopy on ESRO II satellite, 23:17788 (CEA-R-3700)
design of satellite-borne silicon surface-barrier range-energy, for 6- to 100-MeV protons, 22:28151
design of scintillation, 21:1612
design of semiconductor—scintillation telescope, for manned satellites, 24:39327
design of silicon surface-barrier satellite-borne, for 0.1- to 1.0- and 0.8- to 6.0-MeV protons, 22:28150
design of three-channel, using semiconductor detectors and tunnel diode discriminators, 21:32432
development for 10- to 1000-GeV range using ionization chamber and electromagnetic cascades from iron absorber, 24:29577
development of high-resolution, 24:50631
development of spark chamber for 1.0-GeV protons, 21: 39260
development of spark chamber, for 1.0-GeV protons, 21: 39229
performance of recoil, for measurement of neutron spectrum from americium—beryllium source, 25:18761
performance of recoil-, analysis for sodium system, 23: 13440 (AI-AEC-12721, pp 47-59)
resolution in scattering experiments at 1 GeV, 22:24826 (BNL-12342)
resolving power limitations of silicon, for studying proton elastic scattering by phosphorus-31, 23:671 (CEA-R-3415)
use in manned space flight, 21:36412

Proton Synchrotrons
see Synchrotrons

Protonosphere
see Magnetosphere

PROTONS
absorption in polyethylene at 150 MeV, ionization curves for, (E), 25:42141
absorption of high-energy, at 20 to 150 km, relation to tropospheric and stratospheric circulation, (E), 25: 16969
absorption of, proportional detector method for determining stopping powers of gases for, 24:2467
absorption, solar and solar induced conditions prior to polar cap, 21:31306(R) (N-66-22351)
abundance and temperatures at 1000 km, OGO measurements, 23:23015
abundance at plasmapause, (E), 24:10438
abundance from duoplasmatron ion source, 21:41814
abundance in atmosphere, relation of solar zenith angle to seasonal and diurnal variations of, (E), 23:42053
abundance in auroral zone, (E), 23:3336 (N-68-27562)
abundance in auroral zone, (E), 23:1256 (N-68-25720)
abundance in daytime midlatitude ionosphere, (E), 24: 6432
abundance in exosphere, (E), 23:3381
abundance in H I regions, (E/T), 25:58630
abundance in high-latitude exosphere, (E), 23:39387

abundance in ionosphere between 200 and 630 km, (E), 23:32231
abundance in ionosphere for solar minimum winter and summer conditions, 21:5145
abundance in ionosphere from 300 to 600 km, (E), 23:12683
abundance in low-energy primary cosmic radiation, (E), 22:34310
abundance in magnetosphere, transport and loss mechanisms of, (E/T), 25:11802
abundance in matter at high temperatures and densities, (T), 23:41786
abundance in mid-latitude trough region and plasmasphere of H$^+$, altitude-dependent, (E), 25:16892 (N-70-39303)
abundance in neutron stars, energy density from, 23:14458
abundance in nightside plasmasphere, simultaneous OGO 3 and 4 measurements on Aug. 8 and 28, 1967 of, 24:51526
abundance in planetary nebulae, (E), 24:35033
abundance in primary cosmic radiation relative to deuterons and helium-3 and -4 at 60 to 220 MeV/N, counter—telescope study of, (E), 22:29317
abundance in primary cosmic radiation, (E), 22:21964
abundance in primary cosmic radiation, (E), 22:36757 (N-68-10507)
abundance in primary cosmic radiation, (T), 22:24086
abundance in primary cosmic radiation, (T), 23:6897
abundance in primary cosmic rays during the 1965 solar minimum, (E), 23:5255
abundance in radiation belts, relation of alpha particles to, (E/T), 24:42602
abundance in solar corpuscular radiation, (E/T), 25:35728
abundance in solar wind during magnetic storms, (E), 23:1126
abundance in solar wind, (E), 22:17340
abundance in stellar objects exploding from very high temperature, (T), 23:34152
abundance in topside ionosphere, 23:1258 (N-68-25756)
abundance in topside ionosphere over Arecibo, (E), 23:10513
abundance in topside ionosphere, relation of solar zenith angle to diurnal and seasonal variations of, (E), 23:27450 (N-69-17997)
abundance in topside ionosphere, solar-geomagnetic seasonal control of, (E/T), 25:19576
abundance in topside ionosphere, thermal diffusion effects on, (T), 22:17532
abundance in upper atmosphere, (T), 22:13323
abundance near Venus, (T), 22:34135 (AD-662227)
abundance of 100 keV, in aurora, 23:10525
acceleration by intense relativistic electron beams in gas-filled region, (E), 24:13231
acceleration during magnetic storm on April 18, 1965, (E), 22:13344
acceleration in auroral zone, mechanism for, (E/T), 25:14116
acceleration in dipole fields, mechanism for, (T), 24:28131
acceleration in drift chamber, correlation of electron-beam behavior with, 24:47542
acceleration in radiation belts by bimodal diffusion, (T), 23:16736
acceleration in radiation belts, (E), 23:34291
acceleration in sunspots, (T), 22:23917
acceleration in supernovae to relativistic velocities, (T), 24:30071
acceleration of 1- to 10-MeV, effect of interplanetary shock wave on, (E/T), 25:11624
acceleration of cosmic, to extremely high energies in galaxy, (T), 23:46297
acceleration of heavy ions in solar wind and corona by, (T), 24:37101
acceleration of high-energy cosmic, by electromagnetic radiation emission from pulsars, 23:20731
acceleration of polarized, performance of AVF cyclotrons for, 21:21338
acceleration of primary cosmic, by spinars, (T), 25:13952
acceleration of solar, (E/T), 25:43067 (N-71-16749)
acceleration of solar-wind, at bow shock, (E), 22:47983
acceleration of, development of accelerator using swept beam of electrons for, 22:46601 (UCRL-18103, pp 219-23)
acceleration of, reflected at magnetospheric bow shock, (T), 23:16730
acceleration of, use of electric fields of electron beams imbedded in plasma for coherent, 21:13748 (CONF-650923-32)
alpha scattering at 16 to 40 MeV, effect of target recoil on angular distributions for, (E), 23:46912
angular distribution assymetry from polarized deuteron reactions (d,p) with beryllium in MeV range, device for measuring, 22:11755
angular distribution at noon Oct. 9 and midnight Oct. 11, 1968, magnetospheric pitch-, (E), 24:51533
angular distribution of trapped, energy dependence of equatorial pitch-, (E/T), 24:51512
angular distributions and yields in sputtering with, equipment for studying, 23:14095
angular distributions from (d,p) reactions with polarized helium-3 at 6, 8, and 10 MeV, (E), 21:21412
angular distributions from p + p deeply inelastic interactions at 12.4 GeV/c, scintillation- and Cherenkov-counter spectrometer study of, (E), 24:8565
angular distributions from p + p interactions at high energies, Hagedorn thermodynamic model for, 24:20182
angular distributions from π^- + p interactions at 2 to 16 GeV/c, (E/T), 21:17119
angular distributions in magnetosphere, satellite-borne detector system for measuring, 24:22990 (UCRL-50745)
angular distributions in p + p interactions at 12.5 GeV/c at high transverse momenta, differential cross sections for, (E), 24:15470
angular distributions of equatorial 30 to 300 keV, in loss cone and at large angles, (E), 25:56027
anisotropy in upper ionosphere, energetic electron flux-associated magnetic-field aligned 1- to 6-keV, (E), 25:27604
anisotropy of solar, in event of Nov. 18, 1968, (E), 25:55764
annihilation interactions with antiprotons, (T), 25:33046
atomic stopping powers for, measurement using (p,n) reactions, (E), 22:30039
atomic stopping powers in cadmium, indium, silver, and tin at 3.75 to 5.5 MeV, (E), 22:30039
attenuation and buildup measurements for shielding materials, 21:33508(T) (AEC-tr-6719, pp 80-9)
attenuation by plane slab for space shielding use, calculations, 21:9641
attenuation by polar cap atmosphere, solar, 21:18529
attenuation by shielding material, 21:9640
attenuation by shielding, comparison of codes for calculating, 21:33497 (ORNL-RSIC-17)
attenuation by shielding, equations for thin cylindrical shell and slab disk configurations in space, (T), 23:16865
attenuation by shielding, weight optimization for, (T), 23:25421
attenuation by silicon, up to 50 MeV, range-energy and stopping power calculations for, 22:2361
attenuation in metals, for 5- to 12-MeV incident energies, 21:13377
attenuation in shielding, effects of multiple Coulomb scattering and range straggling on, (T), 23:16863
attenuation in tissue equivalent gas and water, 21:28591(R) (NYO-2740-4)
attenuation in various elements of 21-MeV, gamma dose rates for, (E), 23:42381
attenuation lengths in concrete and steel, 21:23359 (ANL-7273)
attenuation of 7-GeV, in iron, 21:44471 (NIRL-M-82)
attenuation of high-energy, in aluminum and silicon absorbers, 25:16188
auroral precipitation of, ionization cross sections and hydrogen-emission excitations during, (E/T), 25:16887 (AD-713691)
auroral precipitation of, position of oval of, (E), 23:39395
binding energy for p-^{3}He system, bound-state eigenvalue calculation for, 21:38218
blocking in germanium, planar, (T), 24:45339
blocking near copper (100) planes, computer simulation of emission profiles in, 25:1294
blocking patterns in metallic crystals, effects of lattice vibrations on, (E), 24:28407
blocking patterns in silicon carbide crystals, 24:30398
book: Studies in Space Radiobiology, 23:50916
bursts during auroral substorms, distribution function of perpendicular energy of micro-, (E), 25:7221
capture by bismuth-209, statistical calculation of excitation function for, (T), 24:1914
capture by carbon-14 at 352, 527, and 634 keV, nitrogen-15 energy levels and transitions from, (E), 22:1597(R) (COO-1120-68)
capture by cerium-142 at 10 to 50 MeV, quadrupole contribution to cross section for, (T), 23:32970
capture by gold-197, -188, -189, and -192 at 660 MeV, conversion electron spectrum from, (E), 21:25552
capture by lithium-6 at 0.8 to 1.8 MeV, beryllium-7 energy levels and transitions from, (E), 22:1597(R) (COO-1120-68)
capture by molybdenum-92 at 5.8 to 6.6 MeV, excitation functions for, (E), 23:28316
capture by phosphorus-31 at 9.5 to 11.5 MeV, excitation functions and reaction mechanism for, (E), 24:8870
capture by phosphorus-31, angular distributions for resonance, (E), 23:42898
capture by silicon-29 at 1.3 to 1.9 MeV, γ spectra from, 24:10941 (ANU-P-464)
capture by silicon-30, phosphorus-31 energy levels and transitions from, (E), 22:1597(R) (COO-1120-68)
capture by strontium-88 at 5.06 MeV, cross sections for, (E), 23:49417
capture by the 1.248-, 1.438-, 1.556-, and 1.583-MeV resonances of phosphorus-31, angular distribution, lifetime, and branching ratio measurements on, (E), 23:40028
capture of, onto geomagnetically trapped orbits from beams of interplanetary solar particles, (E/T), 25:22424
cascade calculations using Passow's approximation, 23:30746
channeling and blocking in crystalline solids, 23:36141
channeling at 4.7 and 6.72 MeV in [100] planes of ionic single crystals, 23:20992
channeling in <111> germanium at 1.5 MeV, depth dependence of critical angle of, (E/T), 25:33424
channeling in alkali metal halides at 75 and 200 keV, characteristic x-ray production study of, 24:35536
channeling in alkali-metal halide single crystals at 1.5 MeV, 24:21877
channeling in annealed phosphorus-ion-implanted diamond at 80 keV, characteristic x rays from, 23:32570
channeling in boron-implanted silicon at 450 keV, 25:19830
channeling in calcium and lithium fluorides, half-thickness for escape and stopping power for, (E), 25:38912
channeling in calcium fluorides and lithium fluorides, energy losses and escape from channels in, (E), 24:42806
channeling in cesium iodide crystals, stopping power for, (E), 23:48970
channeling in copper at 5 to 500 keV, computer calculations on, (T), 22:26471
channeling in copper single crystals, observation by characteristic extreme uv emission, 22:1363
channeling in copper single-crystal films at 170 keV, effects of weak deformation on, 25:14421
channeling in crystal lattices, (T), 21:3932
channeling in crystals at 1.5 MeV, effects of surface and imperfections on, (E/T), 25:43461
channeling in crystals, (T), 24:30383
channeling in crystals, analysis of impurity atoms from characteristic x rays, 22:31994
channeling in crystals, calculation of electronic and nuclear stopping powers for, 25:59129
channeling in crystals, line intensities in patterns from, (T), 23:18741
channeling in crystals, star patterns from, (E), 22:31921 (BNL-50083, pp 125-41)
channeling in crystals, theory for, 22:29549
channeling in crystals, use in defect studies, (E/T), 22:26488
channeling in crystals, use in structure studies, 21:46404
channeling in fluorite crystals, 25:27851
channeling in fluorite crystals, thermal release of implanted ions by, (E), 24:32906
channeling in gallium arsenide, germanium, and silicon, energy losses in, 21:40091
channeling in germanium and silicon crystals, feeding into and escape from channels in, (E), 22:31917 (BNL-50083, pp 45-57)
channeling in germanium at 1 to 8 keV, 24:30394
channeling in germanium single crystals at 1.5 MeV, backscattering study of, 24:24114
channeling in germanium, calculations using diffraction model for, 22:11548
channeling in germanium, energy and angular distributions from, (E), 23:51771
channeling in gold single-crystal foils, energy loss and straggling in, 25:11976
channeling in gold, tungsten, and uranium dioxide at 2 to 30 MeV, 22:11537
channeling in hcp and Wurtzite structures, blocking patterns for, (E), 23:18742
channeling in monocrystals at 4 to 7 MeV, angular and energy distributions in, (E), 24:35534
channeling in monocrystals at 6.72 MeV, 23:7053
channeling in potassium bromide crystals at 1.5 MeV, effects of radiation damage on, 25:3201
channeling in quartz single crystals at 415 keV, (E), 22:34753
channeling in semiconductors, 24:8517 (AD-689187)
channeling in silicon (110) planar channel at 0.2 and 1 MeV, calculated wavelength distributions for transverse oscillations in, 25:11953
channeling in silicon and germanium in [110] direction, calculated energy losses, 23:20995
channeling in silicon at 0.25 to 2 MeV, critical angles of, (E/T), 24:6634
channeling in silicon at 3 MeV, 22:11537
channeling in silicon at 5 MeV, probability of, 24:19962
channeling in silicon at 6.72 MeV and at different temperatures, 25:17293
channeling in silicon crystals, temperature effects on, (E), 23:32573
channeling in silicon monocrystals at 5 and 9 MeV, emergent star patterns of, (E/T), 24:15394
channeling in silicon single crystals at 3 MeV, planar, (T) , 25:40774
channeling in silicon single crystals, anomalous energy losses of 1.5-MeV, (E), 22:17812
channeling in silicon single crystals, temperature dependence of, (E), 24:21853(T) (ORNL-tr-2279)
channeling in silicon, comparison with deuterons, 24:24113
channeling in silicon, effects of disorder produced by ion implantation on, 25:19816
channeling in silicon, energy-loss distribution for, 22:17420
channeling in silicon, review, 22:37003
channeling in silicon, use in crystal wafer orientation of, (E), 22:1339
channeling in single crystals at 50 to 150 keV, blocking and intensity patterns from, 24:5205
channeling in sodium chloride crystals, x-ray production in, (E), 24:37177(R) (NYO-2962-8)
channeling in sodium chloride, potassium chloride, potassium bromide, silicon, and germanium monocrystals, energy distributions of, 25:7464
channeling in thick crystals at 31.5 MeV, 24:18030
channeling in thin [111] gold crystals, 22:29575
channeling in thin crystals at 1 to 5 MeV, (E/T), 23:3594
channeling in tungsten, critical angles for low-energy, (E) , 23:10710
channeling in uranium monocarbide monocrystals at 400 keV, (E/T), 25:1273
channeling of, angular limit to classical description of, 22:29546
channeling through gold, energy structure in axial 30-keV, 22:52879
channeling through silicon crystals at 2 MeV, 22:7395
channeling through very thin gold, energy loss of, (E/T), 24:42502
channelling through thin gold crystals, 21:13393
characteristics of auroral, (T), 22:47941
characteristics of solar-wind, Vela 4 measurements, (E), 22:41266
characteristics of trapped 100- to 1700-keV, in radiation belts, (E/T), 24:42604
charge difference (e - p), beam-deflection study of cesium and potassium atomic charge for upper limits to, (E), 23:42600
charge exchange with metal vapor jets at 5 to 40 keV, 22:26233
charge form factor from e + p elastic interactions at $q^2 = 75\ fm^{-2}$, (E), 21:42240
charge of, dipole fit of electromagnetic form factors for dipole distributions of, 24:24292
charge of, inequality with electrons, (E), 22:11573

charge of, possible check through high-precision frequency measurements for Gamow time-dependence of, 22:22361
charge of, relative to electron charge, (E), 25:7533
charge radius of, mass-degenerate SU(3) solution for effects of mass splitting on saturation of collinearized algebra of vector charge densities for, (T), 25:45689
charge-exchange lifetimes in outer radiation belt, (E), 22:36800 (AD-666964)
charge-transfer collisions in thin gas targets at 60 to 250 keV, electron capture cross sections from, 21:14982
classification and forecasting of solar events, (T), 25:27355
complexes with cations and defects in rutile, absorption spectra, (E), 21:44150(R) (COO-1434-3)
compressibility of, determination from π + p, K + p, and p + p elastic interactions below 30 GeV, (T), 23:36957
content in stellar interiors of free, equilibrium, (T), 21:28904
correlations n—p in light nuclei, 24:11035
correlations p—n in complex nuclei, effects on cross section for meson (π) reactions (π^+,π^0) and (π^-,π^0), 22:3460
coupling constant anti KΛp, anti K + N interactions at low energies in review of, (T), 25:25464
coupling constant π^0p, optimized polynomial expansions for p + p $\rightarrow$ p + p interactions below 400 MeV for, 24:40415
coupling constant $Y_0^*K^-p$, from $K^- + n \rightarrow Y_0^* + \pi^-$ interactions at 3 GeV/c, (T), 25:25327
coupling constants for γ—p, from total cross sections of γ + p interactions at 3.7 to 17.9 GeV, (E), 24:45409
coupling constants for $K^-p\Lambda$ and $K^-p\Sigma^0$ from dispersion relations for K^- + p forward elastic scattering amplitudes, (T), 23:42676
coupling constants for ΛK^-p and ΣK^-p from dispersion relations for elastic K^- + p interactions at low energies, 23:23492
coupling constants for ΛK^-p from forward amplitudes for K^+ + p and K^- + p interactions, 25:33735
coupling constants for ΣK^-p from forward amplitudes for K^+ + p and K^- + p interactions, 25:33735
coupling to electrons in two-fluid model of solar wind, (E/T), 25:922
coupling to electrons, Hartree—Fock approximation in quantum electrodynamics for bound state of, 25:30989
coupling with neutrons, mixed representations in U(3) x U(3) for parameters of axial-vector, 22:24704
current-intensity profile over auroral homogeneous arc to 135 km, (E), 25:16964
cutoff rigidity spectrum between 12 and 40 GeV of cosmic-ray, (E), 22:31667
cutoffs of 1.4 to 46 MeV solar, low-altitude observations of, (E), 25:43234
cyclotron instability of outer belt, (T), 23:10544
decay of bound system p anti p $\rightarrow \pi^+ + \pi^- + \omega^0$ at rest, Veneziano model for, 25:45742
decay of, Cherenkov detector search for, (E), 25:19893
decay of, experimental tests of baryon conservation in, 21:37694
decay of, heavy-water Cherenkov detector study of lower limit for, (E), 24:37620 (COO-1749-12)
deceleration in interplanetary space, processes of solar flare-associated cosmic, (E/T), 25:33092
dechanneling coefficient in silicon crystals of 1.5-MeV, temperature dependence of, (E/T), 25:11969
dechanneling in copper crystals, 24:37177(R) (NYO-2962-8)
dechanneling in germanium single crystals at 1.5 MeV, ion mass effect on, 25:36289
dechanneling in germanium single crystals at 1.5 MeV, 25:36271
dechanneling in germanium, (E/T), 25:59130
dechanneling in niobium <111> at 100 keV, (E), 25:38550
dechanneling in silicon at 0.3 and 0.6 MeV, (E/T), 25:17288
dechanneling in silicon at 0.3 to 1.5 MeV, temperature and energy dependences of, (E/T), 25:22602
dechanneling in silicon crystals at 1 and 1.5 MeV, temperature and energy dependence of, (E/T), 25:52909
density and energy in magnetosphere and interplanetary space, Mariner IV observations of, 21:11486(R) (N-66-19194)
density and helium ion density relation to micropulsation nose whistlers, 21:5135
density decrease between 600 and 2500 km in midlatitude trough of H^+, evidence for upward plasma flow, (E/T), 25:40465
density from 125 to 140 km in ionosphere, interaction mechanisms of, (E/T), 25:19583
density in environment of Venus, (E), 22:13147
density in F2 region, diurnal variation of, (T), 23:16713 (N-68-33267)
density in magnetosphere from pearl dispersion measurements, 21:41913
density in midlatitude ionosphere and magnetosphere associated with magnetic storms, dynamics of thermal, (E), 25:58867
density in neutron stars, (T), 21:18371
density in solar wind for Dec. 9 to Dec. 31, 1968, satellite HEOS-1 observations of, 24:8288
density in topside ionosphere, (E), 23:16712 (N-68-33229)
density irregularities of, deduced from cyclotron damping of proton whistlers, (E/T), 25:11787
density of primary cosmic, (E/T), 25:38183
density of solar 500-keV, effect on magnetic-field configuration following Jan. 28, 1967 solar flare, (E), 25:27584
depth—dose measurements in water, performance of thermoluminescent dosimeter for, 24:29584
desorption from tungsten surfaces by electron impact, (E), 24:51185
detection aboard OGO-I and III satellites, ionization chamber for, 22:43041
detection above 15 keV, efficiency of thallium-activated cesium iodide detectors for, 23:33393
detection above 5 keV, efficiency of thallium-activated sodium iodide detectors for, 23:33393
detection and analysis of 3- to 32-MeV solar, 23:5261
detection and discrimination at very high energies, development of negative electron affinity secondary emitter detectors for, 24:21014 (BNL-14466)
detection and discrimination from alpha particles above 5 MeV with surface-barrier detectors, 24:36568
detection and discrimination from alpha particles, biased, routing circuit for surface-barrier silicon detectors for, 24:36592
detection and discrimination from alpha particles, semiconductor detector for, 24:16855
detection and discrimination from deuterons using semiconductor detectors, 23:22065
detection and discrimination from deuterons, dE/dx solid state detector telescope for, 23:653
detection and discrimination from deuterons, use of semiconductor detectors for, 21:17865
detection and discrimination from low-energy electrons, double layered scintillation detector consisting of thallium-activated cesium iodide evaporated on plastic NE-102 for, 22:40420
detection and discrimination from mesons (π) in cosmic radiation by energy loss in proportional detectors, 22:36044
detection and discrimination from other charged particles, operation of semiconductor detectors in E—ΔE configuration for, 22:38010
detection and discrimination from pions at 200 GeV/c, negative electron affinity secondary emitters for, 24:7648 (BNL-14183)
detection and discrimination of recoil, from alpha particles in nuclear emulsions, processing method for, 25:57731
detection and discrimination of, pulse discriminator for semiconductor detector for, 24:11778
detection and discrimination of, two-counter, 22:47337
detection and energy measurement of high-energy, performance of Cherenkov detector for, 25:44684 (JINR-P13-5866)
detection and identification at 5 to 50 MeV by energy—range relations in semiconductor detectors, 24:50560
detection and identification in Van Allen radiation belt, design of rocket-borne semiconductor detector dE/dx—E telescope for, 23:26537
detection and measurement in auroral zone at 0.15 to 8 MeV, rocket-borne silicon detector for, 25:13227
detection and measurement in Gemini vehicles using nuclear emulsions, 21:20203
detection and measurement in inner radiation belt and radial diffusion, 21:37287
detection and measurement in space, equipment and methods for, 22:49093
detection and measurement of 1- to 20-keV, in aurorae, design of cylindrical electrostatic analyzers for, 22:28096
detection and measurement of 10- to 10,000-eV auroral, calibration of electrostatic spectrometer for, 23:4831
detection and measurement of 10-, 20.5-, and 28-GeV/c, ionization spectrometer for, 23:43528
detection and measurement of 5- to 80-MeV, aboard OGO-F satellite, 22:29306
detection and measurement of cosmic and solar, silicon spectrometer for, 21:16194
detection and measurement of energy spectrum of cosmic, at 0.5 to 10 MeV, satellite-borne detector system for, 24:2447(T) (JPRS-49167)
detection and measurement of energy, flux density, direction, and location of high energy, equipment for, 23:31549
detection and measurement of low-energy solar, inside and outside magnetosphere, 21:43688 (AD-651480)
detection and measurement of solar flare, Apollo-borne semiconductor detector system for, 24:9653
detection and measurement of solar, by Mariner IV, 21:11332(R) (N-66-19199)
detection and measurement of, response of liquid hexane ionization chamber for, 21:12668
detection and measurement of, using fission tracks in 4π mica target, 24:41675
detection and measurement with gas-discharge counters on Luna-10, cosmic, 21:20802
detection and measurement with gas-discharge counters on Luna-10, 21:20867
detection and measurements in earth's environment by satellites, 21:46217 (N-67-18353)
detection and measurements of, design and performance of thin parallel plate proportional counters for, 21:17879
detection as test of solar neutron observations, 21:31339
detection at 10 GeV, study of transverse track geometry in nuclear emulsion for, 25:51897
detection at 10, 20.5, and 28 GeV/c, properties of shower scintillation detector for, 25:23850 (N-70-42520)
detection at 20 to 80 MeV, satellite-borne semiconductor telescope detectors for, 25:23810
detection at 50 MeV, side efficiency of channel electron multipliers for, 24:44283
detection at 657 MeV, design and performance of Cherenkov detector for, 25:26506 (JINR-P13-5637)
detection at 665 MeV, design and performance of Cherenkov detector for, 25:26505 (JINR-P13-5636)
detection below 100 keV, preparation of thin-film zinc sulfide phosphors for, 24:48292
detection efficiency using silicon and germanium detectors, nuclear reaction correction for, 22:14796
detection in auroral zones and radiation belts by equipment on Kosmos 261 satellite, 25:17026
detection in coincidence with neutrons, method for, 24:5908
detection in long-lived streams of energetic solar particles, (E), 23:25107
detection in low-pressure glow discharges, (E), 23:34393
detection in magnetotail and magnetosheath of solar flare, (E), 23:16604
detection in small-angle scattering experiments using stopping counters, elimination of nuclear reaction pulses in, 23:10928 (UCLA-10-P-18-10)
detection in stratosphere of, from flares of July 7, 1966, Sept. 2, 1966, and Jan. 28, 1967, (E), 23:22811
detection of 0.31-MeV cosmic, in near-Earth interplanetary space and anisotropy, 25:27473
detection of 0.5- to 100-MeV, satellite-borne cosmic ray telescope for, 23:6284 (LA-DC-9627)
detection of 1.0- to 10-keV, development of energy-independent detectors for laboratory and space, 21:45393
detection of 10- to 70-keV, performance of surface-barrier silicon detectors for, 23:26518
detection of 130-MeV, use of $\Delta E/\Delta x = f(E)$ curves with silicon detector system for, 21:45353 (LYCEN-6738, pp 34-9)
detection of 160-MeV, design and resolution of lithium-drifted germanium detector for, 21:17856
detection of 20- to 100-MeV, characteristics of lithium-drifted germanium detectors for, 25:42128
detection of 3.5- to 315-MeV, response of lithium-drifted silicon detectors for, 22:28093
detection of 40- to 220-MeV, response of plastic scintillator NE 102 for, 22:2354
detection of 5- to 70-MeV solar, by ATS 1, (E), 23:25212
detection of bursts of, in magnetotail, (E), 24:51495 (AD-707405)
detection of cosmic, at energies near or greater than 100 GeV, use of gas proportional detector for, 22:365
detection of cosmic-ray, design of balloon-borne counter telescope for, 25:42159
detection of detector, pulse-height defects due to nuclear collisions in silicon surface-barrier detectors for, 23:22006
detection of greater than or equal to 500-MeV chromospheric, July 6, 1966, (E), 25:40505
detection of high-energy, differential Cherenkov detector for, 25:44679 (IFVE-SEF-70-48)
detection of low-energy solar, over polar cap, latitude profiles from, 24:39950
detection of low-energy, efficiency of electron multipliers for, 23:21951
detection of low-energy, from solar flare of July 7, 1966, (E), 23:22809
detection of low-energy, in auroral zones, design and performance of airborne scintillation detectors for, 21:32430
detection of low-energy, properties of Sakura nuclear emulsions for, 23:9698 (INSJ-108)
detection of solar, from flare of July 7, 1966, (E), 23:22810
detection of solar, from flare of July 7, 1966, (E), 23:22825
detection of solar, in northern polar regions, (E), 23:48771
detection of solar, on July 13, 1961, (E), 23:16605
detection of solar, on Sept. 29-30, 1968, (E), 25:47290
detection of solar, over polar caps, (E), 23:27506
detection of solar, response analysis of system for, 25:4928
detection of solar-wind, on lunar surface, suppression of uv sensitivity of detector for, 22:51230
detection of very-high-energy, design of differential Cherenkov detector for, (E), 25:15937(T) (NAL-tr-3)
detection of, calibration of satellite-borne semiconductor system for, 22:23293
detection of, effects of nuclear reactions on silicon detector response for, 25:5606(R) (UCSB-34-P-144-7)
detection of, efficiency of channel electron multipliers for, 22:40408
detection of, efficiency of steel sandwich scintillation detector for, (E/T), 25:6546
detection of, fabrication and performance of germanium ion-implanted, thin-windowed radiation detectors for, 24:5888 (EUR-4269, pp 267-82)
detection of, fatigue and efficiency of Channeltron electron multipliers for, 23:9704
detection of, light output of NE-213 phosphors for, 22:16888
detection of, performance of cellulose acetate track detectors for, 25:10831
detection of, plasma effects in semiconductor detectors for, 23:22009
detection of, preparation of gallium-ion-implanted lithium-drifted germanium detectors for, 23:29179
detection of, pulse discrimination in liquid scintillation detectors for, 23:2610
detection of, response of bubble chamber for, 23:38245 (JLI-3506-41)
detection of, response of mineral oil-based liquid scintillation detector for, 24:39222 (PPAR-26)
detection of, response of NE-213 liquid scintillator for, 25:18655
detection of, response of organic scintillators for, 22:49087
detection of, response—energy function for sodium-activated and thallium-activated cesium iodide scintillation detectors for, 23:16120
detection of, tail-to-peak ratio in pulse height spectrum from plastic scintillation detectors for, 23:29171
detection using germanium and silicon detectors, nuclear reaction efficiency corrections for, 22:13927(R) (USC-136-132)
detection using organic scintillators, response functions for, 21:46643(R) (ORNL-4134)
detection using semiconductor detectors, nuclear reaction efficiency corrections for, 23:10928 (UCLA-10-P-18-10)
detection with silicon detectors, effects of detector windows on efficiency of, 21:32464

diffraction by thin single-crystal films, channeling in, (T), 22:44226
diffusion across magnetopause, (T), 22:47965
diffusion and instability equations for micropulsation simulation, 21:29141
diffusion coefficients in ionospheric F2 layer, (T), 25:2962
diffusion entry of solar-flare, into geomagnetic tail, (E/T), 25:7229
diffusion from polar ionosphere to magnetotail, (T), 24:6429
diffusion from radiation belts, (T), 23:30448
diffusion from ring current to auroral zone, (T), 25:35995
diffusion in hydrogen, lower limits for lateral, (E), 23:39320
diffusion in magnetosphere, anomalous, (E/T), 21:11495
diffusion in magnetosphere, effect of conjugate-point wave phenomena on radial, (T), 22:38922
diffusion in magnetosphere, radial, (T), 22:36792 (AD-662579)
diffusion in nickel and titanium, determination by condensation method, 22:26203(T) (NP-tr-1631)
diffusion in nickel and titanium, determination by condensation method, (E), 22:7166
diffusion in outer radiation belt, (E/T), 21:9444
diffusion in radiation belts, radial, (E/T), 24:42603
diffusion in radiation belts, relation between radial and pitch-angle, model of, 24:42606
diffusion in solar corona, (T), 25:7047
diffusion in topside ionosphere, (T), 23:25205
diffusion mean free path during Feb. 25, 1969 solar event, effect of interplanetary magnetic-field irregularities on, (E/T), 25:19414
diffusion of polarized, summary of French research on inelastic, 23:4460 (NP-17597, pp 7-39)
diffusion of solar, (E/T), 21:31152
diffusion of solar, in interplanetary magnetic field, (T), 22:13282
diffusion of solar, in interplanetary space, (E), 24:8296
diffusion of solar, in polar cap areas after solar flare, 21:29105
diffusion of trapped, in radiation belts, radial, (E/T), 25:38231
diffusion of trapped, in radiation belts, radial, (T), 24:42605
diffusion processes from ionosphere to magnetotail, model of polar, (T), 25:40492
directional measurements of interplanetary low-energy, during Feb. 25, 1969 solar flare, (E), 25:27559
discrimination from deuterons, design of semiconductor detection system for, 22:2358
distribution and temperature in ionosphere, (E/T), 23:27437 (N-69-10728)
distribution from molecular hydrogen ion dissociation, angular and energy, (E), 22:17396
distribution functions of solar wind, 21:11522
distribution in cold-plasma magnetosphere, effect on Pc1 propagation, (T), 25:27605
distribution in dusk-side magnetosphere, irregular structure of, (E), 24:32729 (N-70-12926)
distribution in duskside magnetosphere, (E), 24:26074
distribution in magnetosphere, (E), 22:43999
distribution in magnetosphere, pitch-angle, (T), 23:42089
distribution in magnetosphere, satellite measurement of low-energy, 21:20847(R) (AD-642629)
distribution in magnetosphere, source mechanisms of low-energy, (E/T), 24:42598
distribution in nuclei, (T), 21:25576
distribution in plasmasphere, (E), 22:15414
distribution in radiation belts, adiabatic theory of energy-dependent equatorial pitch-angle, (E/T), 25:36002
distribution of >50-keV, in space, 21:20790 (AD-641509)
distribution of 55-MeV trapped, following Starfish Burst, (E), 24:10428
distribution of auroral, injection pitch-angle, correlation with red shift, 21:2118
distribution of geomagnetically trapped, above Brazilian anomaly, (E), 21:31314
distribution of low-energy trapped, time dependence of, 21:13435
distribution of solar, over polar caps, satellite observations of angular and spatial, (E), 25:27540
distribution of trapped, computer routine for access to, 21:37280 (N-67-18040)
distributions in equatorial magnetosphere, energy, intensity, and pitch angle, 21:13466
dose absorbed and dose equivalent for 592-MeV, in tissue, Monte Carlo calculations of, 25:24154 (ORNL-TM-3304)
dose absorbed and dose equivalent for solar flare and Van Allen, in astronauts, use of nucleon-meson transport code NMTC and shielded tissue-equivalent phantom for computer calculations on, 25:24155 (ORNL-TM-3320)
dose absorbed in soft-tissue slab at 400 MeV, calculation, 24:39809 (ORNL-4446, pp 163-76)
dose and dose equivalent calculations up to 3 GeV, 24:32013
dose calculation for combination magnetic and material shield, 23:32553
dose calculations for high-energy, 24:44474 (CONF-691101-, pp 146-58)
dose calculations for satellites, 25:45522(T) (ORNL-tr-2465)
dose characteristics at 200 MeV, (E/T), 25:11054 (JINR-P16-5383)
dose curves for therapy beams of, comparison between bremsstrahlung, gamma, high-energy x radiation, and, 25:52074
dose depth distribution and range in dosimeter glasses, 23:11875
dose determinations of high-energy, for radiation protection, depth, (T), 22:31901
dose distribution for therapy, effects of vane-type metal filters and water absorbers on, 23:6452(T) (UCRL-Trans-1357)
dose distribution in dosimetry glasses, 21:5903 (AD-642794)
dose distribution in low atomic number materials, 22:15018
dose distribution in silicon at 185 MeV, Monte Carlo calculation of, 24:47292 (N-70-20031)
dose distribution in tissues, 25:52152 (UCRL-20836)
dose distribution in water at 260 and 660 MeV, quality factor, (E), 22:1287 (JINR-P9-3369)
dose distribution of 0.4- to 2.0-GeV, in phantoms, Monte Carlo calculations of, 23:6484
dose distribution of recoil, from polyenergetic neutron sources, as function of linear energy transfer, 23:875
dose distributions in thin shields, computer program for absorbed, 25:40726(T) (ORNL-tr-2480)
dose entering spacecraft from external sources, determination of, 22:49652
dose fields in human hip and neck, comparison of calculated and experimental, 25:58023
dose from cosmic radiation to astronauts, statistical analysis of hazards of, 25:4509 (MDC G-363)
dose limits for astronauts during flight to moon, calculation of, 21:16346(T) (JPRS-38272, pp 172)
dose of solar flare, on supersonic aircraft travelers, (T), 24:35109
dose of solar, on satellites, (T), 24:35288
dose of solar-flare, to passengers and personnel aboard supersonic aircraft, 21:6520
dose on satellites in space, calculation of, 24:35289
dose probabilities due to solar, analysis for deep space missions of, 21:7040
dose rate and spectra measurements in Van Allen regions, from OV3-4, 24:10420 (AD-848584)
dose to Apollo 7 and 8 astronauts, 24:12066(R) (BNWL-1183-1)
dose to astronauts during space flight, use of induced radioisotope measurements to determine, 22:43394 (BNWL-531-3)
dose to astronauts from element activation in tissues, 24:32025(R) (N-70-15400)
dose to astronauts, use of nuclear emulsions for determining, 22:31241
dose to space missions, risk of solar, (E/T), 25:58853 (N-71-27792)
dose to thoracic phantoms as a function of radioisotope activation, measurement of, as standard for cosmic radiation dosimetry in astronauts, 23:35745
dose to tissue at 0.4 to 3 GeV, calculation of, 24:25485 (ORNL-TM-2924)
dose to tissue equivalent phantoms, Monte Carlo calculations of absorbed and equivalent 592-MeV, 25:55216
dose to tissue phantoms, 400 MeV to 2 GeV, 23:45742
dose to tissues, calculation of buildup of, 22:38315
dose to tissues, delta-ray buildup effects on calculation of, 23:9968
dose—response functions in atmosphere due to solar, (E), 25:22302 (N-71-10913)
dose-depth curves for high-energy, in relation to problems of radiation protection, 23:24668
dose-depth measurements in phantoms, after homogeneous irradiation, 22:45515
dosemetry of, research on, 22:11980(R) (UCLA-10-P-18-4)
dosimetry and quality factor measurements of, equipment for, 22:28181
dosimetry at 3 GeV, dielectric liquid-filled ionization detector measurements of quality factor in, 24:44327 (CONF-691101-, pp 809-16)
dosimetry at 5 to 137 MeV, response of lithium, fluoride and manganese-activated calcium fluoride dosimeters for, 24:21030
dosimetry by silicon diodes, 22:12859
dosimetry during space flight, use of nuclear emulsions to determine, 25:8682
dosimetry for mice, whole-body measurements of activated carbon-11 β for, 23:50520
dosimetry for supersonic aircraft passengers and personnel, solar flare, 23:50533
dosimetry for therapy, methods for calculations of effects of tissue heterogeneities and body curvature on, 24:50913
dosimetry for therapy, performance of semiconductor detectors for 19.68- to 45.3-MeV, 25:16188
dosimetry for therapy, use of ionization chambers for, 23:6452(T) (UCRL-Trans-1357)
dosimetry for tissues, performance of proportional detectors for, 23:6436(R) (N-68-23396)
dosimetry in animal tissues from gamma spectroscopy of beryllium-7 spallation products, 23:14053
dosimetry in Chlamydomonas cells exposed by Van de Graaff accelerators, methods for, 24:4623
dosimetry in cylindrical phantoms using thermoluminescent dosimeters, 23:20238
dosimetry in human phantoms, effects of geometric configuration on, 23:14197
dosimetry in large and small cylindrical phantoms containing bone and soft tissues, 23:839
dosimetry in lens of beagle dogs, methods for, 25:55319 (UCD-472-118)
dosimetry in man, 21:36552 (AD-636646)
dosimetry in man, use of chromosome aberration frequency for, 22:8526 (CONF-670305-, pp 382-90)
dosimetry in microscopic biological material, method for, 24:41880 (N-69-13643)
dosimetry in microscopic tissue volumes, 23:50530
dosimetry in polystyrene tissue-equivalent phantoms, high-energy, 22:15005
dosimetry in rats determination of biological half-life of beryllium-7 for use in, 24:44403 (CONF-691101-, pp 159-65)
dosimetry in rats, performance of small, direct reading ionization chambers for, 23:29733 (CEA-CONF-1089)
dosimetry in relation to production of tumors in rats, 22:38483
dosimetry in relation to use for large animal exposure, 25:520 (AD-708428)
dosimetry in space satellite, 23:14167
dosimetry in space satellite, (T), 25:24969
dosimetry in tissue at 400 to 3000 MeV, calculation of, 25:6704
dosimetry in tissue-equivalent human phantom, 24:41881
dosimetry in tissue-equivalent phantom, 21:22772
dosimetry in tissue-equivalent phantoms for calculation of depth-dose curves, high-energy, 23:24668
dosimetry in tissue-equivalent phantoms for planning of tumor therapy, 25:531
dosimetry in tissue-equivalent plastic, thermal defect in, 23:35735
dosimetry in tissues, 21:30867(R) (N-67-11985)
dosimetry in tissues, analysis of, 23:4969
dosimetry in tissues, methods for, 23:50489
dosimetry of, 21:12893(T) (UCRL-Trans-1333)
dosimetry of 193 MeV, in tissue, effects of LET on, 21:34560 (AD-636652)
dosimetry of 2.2 GeV, 21:28591(R) (NYO-2740-4)
dosimetry of 200 MeV, using ionization chambers, scintillation detectors, and tissue-equivalent phantoms, 25:6699 (JINR-E16-5384)
dosimetry of 3-GeV, in tissue-equivalent phantoms using activation detectors, 22:21356 (CEA-R-3376)
dosimetry of 45.8- to 730-MeV, in tissue-equivalent materials, computer program for determining, 23:14208
dosimetry of 5- to 137-MeV, response of lithium fluoride and manganese-doped calcium fluoride thermoluminescent dosimeters for, 23:7834 (CONF-680920-, pp 438-55)
dosimetry of absorbed, using photographic method, 22:40680
dosimetry of cosmic, performance of scintillation detector for, 24:31683
dosimetry of high energy, in relation to effective period of beryllium-7, 24:25479 (CEA-CONF-1445)
dosimetry of high-energy, calculations for, 21:6492 (ORNL-P-2568)
dosimetry of high-energy, for radiobiological studies, 24:27440
dosimetry of high-energy, use of activation detectors as dosimeters for, 22:6658
dosimetry of high-energy, use of carbon-11 activation in human blood for, 21:36554 (AD-636648)
dosimetry of recoil, across bone—tissue interface following fast neutron irradiation, 25:49183
dosimetry of recoil, from fast neutrons, 21:20188
dosimetry of solar flare, computer calculations for, 21:32634 (ANS-SD-4, pp 67-78)
dosimetry of solar flare, for astronauts, 21:32656 (UCRL-17283)
dosimetry of, effects of hydrogen interactions on radial, 22:4600 (BNL-11877)
dosimetry of, from solar flares, 21:4794 (N-66-30785)
dosimetry of, in tissue-equivalent phantoms, 21:8839
dosimetry of, LET values for different parts of beam of, 21:22739
dosimetry of, of various energies, 21:16344(T) (JPRS-38272, pp 124)
dosimetry of, on surface of rats, 21:10913
dosimetry of, review of, 21:12861
dosimetry of, sensitivity of manganese-doped calcium fluoride for thermoluminescent, 25:37648 (NP-18864)
dosimetry of, use of chemical dosimeters for, 22:12652
dosimetry of, use of spherical tissue-equivalent proportional counters for, 21:19976 (CERN-66-33)
dosimetry using nuclear emulsion packs on Gemini space vehicle, 21:45610 (AD-649385)
drift in partial ring current, westward, (T), 22:43991
drift of approximately 10 keV resonance, in asymmetric rotating magnetosphere, (T), 25:33128
dust-particle alignment in comet tails by solar-wind, (T), 25:30183
effectiveness for therapy of genital carcinomas in man, evaluation of, in comparison to radium and x radiation, 24:48642
effectiveness for therapy of Vx2 carcinoma transplants in rabbits in relation to pelvic area protection, high-energy, 23:41392
effects at -134 and 27°C on voltage breakdown of polymeric materials, 23:30199 (N-69-10066)
effects at 10 MeV on crystal structure of iridium at 5°K, 22:45745 (UCRL-18043, pp 107-53)
effects at 30 to 400 keV on iron sulfate solutions, LET effect in, 23:47568
effects during Gemini space flights, biological, 22:486 (AD-631989)
effects in intermetallic superconductors with β-tungsten crystal structure, 22:14547(P)
effects in rats, effects of dose on incidence of tumorigenic, 21:16481
effects of 0.05- to 1.0 MeV, on useful lifetime of surface-barrier silicon detectors, 22:28268
effects of 0.8- to 5.0-MeV, on performance of silicon surface-barrier detectors, 23:758 (N-68-27456)
effects of 0.8- to 5.0-MeV, on performance of surface-barrier silicon detectors, 22:40512
effects of 1- to 3-MeV, on luminescence of optical glasses and quartz, 23:42394 (N-69-22194)
effects of 1-keV, on aluminum, 23:16507
effects of 10-MeV, on iridium, (E), 23:25435
effects of 10-MeV, on thermoluminescence of various substances, 21:26241 (CONF-650637-, pp 490-501)
effects of 126- and 510-MeV, on kidneys of dogs, long-term, 25:24381
effects of 13 MeV, on viability of rat skin, 21:8906 (AD-633203)
effects of 1968 solar-burst, on ionospheric parameters, (E), 25:45372
effects of 2.5- to 4.5-MeV, on bipolar transistors, 21:45489 (HMI-B-61)

effects of 2.8-MeV, on silicon single-crystal diodes, (E), 23:18743
effects of 2- to 16-keV, on optical properties of silicate rock powders, 21:29103
effects of 2-MeV, on ribonuclease at 90 to 300°K, 21:20047
effects of 20- to 137 MeV, on Mariner 4 components, 23:756 (N-68-27203)
effects of 20-MeV, on silicon solar cell lifetime and stability, 23:41185
effects of 22-MeV, on aluminum- and boron-doped silicon solar cells, 22:38187 (N-68-19924)
effects of 30-MeV, on positron lifetimes and intensities in sodium chloride crystals, 25:43453
effects of 31-MeV, on radiation-resistant prototype silicon transistors, 21:16258 (N-66-36115)
effects of 4.5-MeV, on microhardness of calcium fluoride crystals, (E), 23:51774
effects of 4.6-MeV, on silicon solar cells, thermal annealing of damage, 22:12701
effects of 4.7-MeV, on crystals and aqueous solutions of ammonium perchlorate, 22:25385
effects of 40-MeV, on cells of hippocampus in young rats, 24:23297 (CONF-690501-, pp 799-822)
effects of 40-MeV, on lithium-drifted germanium detectors, 22:40400
effects of 400- to 2000-MeV cosmic, in shielding dose, (T), 24:28394 (N-70-12024)
effects of 45-MeV, on N—P silicon junctions, 22:4563
effects of 50-keV to 1-MeV on surface-barrier silicon detectors, 22:36156 (N-68-15364)
effects of 55-MeV, on tissues and survival of Rhesus monkeys, five-year follow-up study of, 25:46995
effects of 60-MeV, on mammals, 21:8914 (ORNL-3999, pp 112-24)
effects of 600-MeV, on molybdenum carbonyl, reactions of recoil molybdenum from, 25:15717
effects of 600-MeV, on reactions of carbon, carbon oxides, or methane with nitrogen or ammonia to produce amino acids, 23:47472
effects of 660-MeV, on alkali metal halide crystals, 24:13889
effects of 660-MeV, on chemical state of radioactive phosphorus in potassium chloride crystals, 21:24036
effects of 660-MeV, on crystalline cesium compounds, reactions of recoil iodine from, 23:35230
effects of 660-MeV, on crystals of ammonium perrhenate, sodium perrhenate, or potassium hexachlororhenate, thermal annealing of, 23:47576
effects of 660-MeV, on crystals of ammonium perrhenates, thermal annealing of, 24:244
effects of 660-MeV, on potassium chloride monocrystals, 24:13900
effects of 660-MeV, on rare earth complexes with DTPA, Szilard-Chalmers effect in, 22:40105 (JINR-P12-3887)
effects of 680-keV, on boron implants in silicon, 24:26305
effects of 7.5-MeV, on crystal structure of bismuth tellurides, 21:24854 (N-67-14254)
effects of 700-keV pulses of, on electric conductivity of anthracene monocrystals, 24:40173
effects of 8.9 MeV, on mechanical properties of copper, 24:6218
effects of 850-keV, on magnetic properties of thin nickel films, 23:7037
effects of channeled, on silicon, energy spectra from, 22:16966
effects of cyclotron-produced, on bacteria and solutions, experimental facilities for studies of, 25:16042
effects of fast, on DNA in Escherichia coli, degratory, 23:24551
effects of fast, on lead azide monocrystals, 23:4701
effects of flare-produced, on ionization state of D region, 22:24150
effects of fluxes of energetic, on nucleosynthesis at stellar surfaces and on solar system, (T), 25:11544
effects of low-energy, on solar cell cover glass materials, 25:49068 (N-70-25005)
effects of pulsed, on energy transfer processes in benzene, p-terphenyl, and toluene, luminescence studies on, 23:49817 (BNWL-1051(Pt.2), pp 204-5)
effects of radiation-belt, on satellites and materials, (T), 24:35290
effects of ring-current, on generation of auroral zone vlf chorus, (T), 23:5322
effects of solar flare, on power output of silicon solar cells, 22:40510 (N-68-20944)
effects of solar, from Aug. 28 and Sept. 2, 1966, flares, ionization, 24:6423
effects of solar, on brightness variations of nighttime airglow, (E), 23:3389
effects of solar, on F region variations, (E), 25:16986
effects of solar, on high-latitude ionospheric disturbance, 21:2109
effects of solar, on solar cells at synchronous altitudes, 23:50232
effects of solar-flare, on supersonic aircraft, (T), 21:21007
effects of Starfish burst on, in inner radiation belt, (E), 23:44240(R) (AD-683341)
effects of Van Allen belt, on lifetimes of solar cells, computer calculations of, 22:39148
effects of, at 240 MeV on blood and tumor formation in rats, 21:13050
effects of, on alkali metal azides and perchlorates, 21:12463
effects of, on animals and tissues, 21:12893(T) (UCRL-Trans-1333)
effects of, on annealing in copper and gold, 21:11208 (ANL-7155, pp 167-289)
effects of, on brains of rats, 21:6633
effects of, on cesium chlorides and nitrates, effects of dose on radioiodine yields in, 21:3131
effects of, on conditioned reflex activity of mice and rats, comparison with γ radiation and neutrons, 21:6436
effects of, on growth of chemically-induced neoplasms in mouse brain, 21:6603
effects of, on growth of transplanted neoplasms in mice, 21:6603
effects of, on incidence of tumors in rats, 21:13049
effects of, on induction of chromosome aberrations in Tradescantia bracteata, effects of LET on, 21:10832
effects of, on kidney cells of astronauts, lethal, 21:6660
effects of, on mouse brain, 21:6603
effects of, on nitrogen compounds to separate nitrogen-15, 21:12517(P)
effects of, on normal and neoplastic tissues of man, 21:12893(T) (UCRL-Trans-1333)
effects of, on peripheral nerve tissue, 21:6607(R) (AD-632819)
effects on absorption of infrared and visible light by steatite ceramic B at 3.4 MeV, mechanism of, 24:37537
effects on absorption spectra of n-type gallium arsenide, (E), 24:19967
effects on acromegaly in man, therapeutic, 22:47620
effects on acromegaly in man, therapuetic, 22:49386
effects on activity of DNAase, effects of energy level of charged particle on, 22:25781
effects on activity of enzymes in vitro, low-energy, 23:10123
effects on activity of enzymes, comparison of RBE of, with α, deuterons, γ and, 24:48437
effects on activity of hydrolases and content of DNA and protein in lambda strain of Escherichia coli K 12, 25:13371
effects on activity of lactate dehydrogenase in serum and tissues of monkeys, 23:47963
effects on activity of RNAase, 22:12818
effects on activity of RNAase, effects of dose and temperature on, 22:45424
effects on activity of T1 bacteriophage, model for effects of temperature on, 25:42288
effects on alkali halide crystals at 1 to 7 MeV, optimum temperatures for buildup of F_1 centers, 23:51755
effects on alkali metal nitrates, 21:30467
effects on alkali-halide crystals doped with alkaline earths, color centers produced by, 21:27238
effects on alumina insulating barriers, electron currents induced in, 24:51792
effects on aluminum and gold, surface blistering, 21:11260(R) (N-66-32433)
effects on aluminum at 10 to 200 keV, blistering, 22:29576
effects on aluminum crystals at 10 to 100 keV, orientation dependence of surface pitting and blistering, 23:3565
effects on animal and plant cell test systems, RBE for 380 MeV, in relation to cobalt-60 γ and x rays, 23:35853
effects on animals and microorganisms, RBE for high-energy, 24:6155
effects on animals and plants, review of high-energy, 22:38474
effects on animals, cyclotron beam scanning and collimation for studying, 22:30868 (UCRL-17751, pp 53-80)
effects on animals, RBE for, 24:846
effects on anodized aluminum surfaces, 23:3104
effects on anthracene crystals at 200 to 600 keV, anisotropy of scintillation, 24:46558
effects on Apollo 11 lunar materials, luminescence, (E), 24:21545
effects on Apollo 11 lunar samples, luminescence, (E), 24:21546
effects on Apollo telescope mount photographic film, 22:38186 (N-68-11469)
effects on aqueous ferrous sulfate solutions, effects of dose and LET on, 24:52563(R) (NP-18217)
effects on aqueous solutions of iron sulfates at 30 to 400 keV, LET parameters in, 25:26288(T) (LB/G-2937)
effects on aqueous suspensions of rare earth phosphates at 660 MeV, 24:25079
effects on Arabidopsis seeds, 1 to 20-krad mutagenic, 25:26736
effects on astronauts during space flight, 23:6345(T) (JPRS-45798)
effects on astronauts following exposure to solar flares, biological and physical methods for protection against, 25:46857
effects on astronauts, pathological, 23:31749 (N-69-19054)
effects on auroral excitation, spectral intensity ratios from, (E), 22:13341
effects on Bacillus subtilis spores, low-energy, 23:10123
effects on bacteria in meteorites and volcanic rocks, lethal 600 MeV, 24:21329
effects on bacteriophage Tl in vacuo in relation to energy level, free radical production, and inactivation temperature, 24:6146
effects on bacteriophages, effects of energy on inactivation of nucleic acids by, 25:16387
effects on barley, mutagenic, 23:31700
effects on benzene and benzene—cyclohexane mixtures, fluorescence spectral studies on, 24:31358
effects on biochemical activity of hemolytic antibodies, for determination of molecular structure, 22:10685
effects on bioelectric activity of nerves of frogs, effects of dose on, 23:29743 (UCRL-18347, pp 82-95)
effects on biological factors during space exploration, review of, 24:899
effects on biological materials at 5 to 100 keV from recoil, (E), 22:29271
effects on biological materials at low energies, nonionizing interactions in inactivation, 25:21589
effects on biological materials, effects of dose distribution on RBE in comparison to γ and x, 22:38476
effects on bismuth telluride single-crystal foils, defects from 7.5-MeV, (E), 21:29384
effects on blistering and pitting in aluminum and gold, 22:4846
effects on blood count and mortality of rats, effects of dose on 120 MeV, 22:28645
effects on blood of rats, in comparison to effects of x rays, 22:15078
effects on blood picture and life spans of rats following repeated exposure, RBE for, 21:16440(T) (JPRS-38272, pp 430-1)
effects on bone marrow cells in mice, whose-body exposure, 21:24592
effects on bone marrow cells of rats, RBE for 50 MeV, 23:12053
effects on bone marrow in dogs, protective effects of partial-body shielding against, 25:16196(T) (JPRS-52121, pp 25-9)
effects on bone marrow of mice, 21:16433(T) (JPRS-38272, pp 505-6)
effects on bone marrow of mice, kinetics of, 21:16433(T) (JPRS-38272, pp 505-6)
effects on boron diffusion in silicon at 10 and 50 keV, (E), 24:6625
effects on brain of cats and rats, edemateous, 22:40863
effects on brain of goats, effects of dose and energy on pathological, 25:19124
effects on brain of man, histological analysis of high energy, 22:12934
effects on brain of pigeons, effects of, on behavior, 21:45773 (AD-635661)
effects on brain of pigeons, pathological, 21:39483(R) (AD-632812)
effects on brain of pigeons, pathological, 21:39484 (AD-635662)
effects on brain tumors of mice, protective effects of AET and IUDR against, 21:45771
effects on cadmium—nickel and cadmium—silver cells containing aqueous potassium hydroxide electrolytes, 21:24277(R) (N-67-11732)
effects on calcite and mica crystals, fission track studies on, 23:39067
effects on calcium fluoride crystals at 4.5 MeV, expansion, 24:21871
effects on calcium fluoride crystals at 4.5 MeV, thermoluminescent, 25:45561
effects on calcium fluoride microhardness at 4.5 MeV, (E), 25:49984
effects on calcium fluorides color and density at 4.5 MeV, annealing of, 25:49980
effects on capillaries in rabbit brain, pathological, 21:45814
effects on capillaries of brain in rabbits, pathological, 22:23598 (UCRL-17481, pp 154-70)
effects on carbon and nitrogen compounds, production of amino acids by, 24:36275
effects on carrier lifetime in junction diodes and solar cells at energies up to 3,000 MeV, 25:1261 (NP-18472)
effects on carrier properties of silicon and germanium at 270, 590, and 3,000 MeV, (E), 25:1262 (NP-18474)
effects on carrots following seed exposure, RBE comparison with cobalt-60 γ rays for lethal 630-MeV, 24:27720
effects on cell count, incidence of chromosome aberrations, and mitotic activity in epithelial cells in intestines of mice, effects of dose on restoration of, 24:880
effects on cell division and mitosis in bone marrow of rats, effects of dose on whole-body 50 MeV, 23:35869(T) (JPRS-47582, pp 29-35)
effects on cell nuclei in Hordeum vulgare and Vicia faba seeds, comparison of bremsstrahlung, γ, x, and, 25:35258
effects on cells and lipid content of liver of monkeys, high-energy, 23:22394 (N-68-16107)
effects on cells in liver of mice protective effects of cysteamine against mutagenic, 22:17040
effects on cells in relation to use in radiotherapy, review of, 23:43842
effects on cells, effects of LET, oxygen, and temperature on, 21:43533
effects on cesium chloride and mixed cesium chloride—alkali metal halide crystals, 22:25389
effects on cesium chloride, annealing behavior of radioiodine recoils formed by, 21:4561
effects on cesium chloride, yields of radioactive iodine from, 24:29351
effects on cesium chlorides, reactions of radioiodine recoils with defects from, (E), 21:21100
effects on charge carrier concentration and mobility in n- and p-type gallium arsenide, 21:3369
effects on chemical and physical properties of elastomer gaskets, 24:16585
effects on chemical reactions in polymers, 22:14515(R) (COO-1614-1)
effects on Chlorella pyrenoidosa, effects of dose on lethal, 25:52257
effects on Chlorella, review of, 22:47538
effects on choline content of liver of rats, effects of dose on, 22:47490
effects on chromatids of pollen in Tradescantia, aberrant, 22:28421
effects on chromosomes and survival of Chinese hamster and HeLa cells, RBE for, 25:44944
effects on chromosomes in bone marrow and spermatogonia of mice, RBE for aberrant, 22:21478
effects on chromosomes in bone marrow and tumor cells, RBE for aberrant 180 MeV, 25:579
effects on chromosomes in cornea of mice, aberrant, 22:33929
effects on chromosomes in lymphocytes of man, aberrant, 22:8526 (CONF-670305-, pp 382-90)
effects on chromosomes in pea seeds, aberrant, 22:481
effects on chromosomes of Crepis capillaris, RBE for aberrant, 22:21488
effects on chromosomes of leukocytes of man, aberrant, 22:36248
effects on chromosomes of man, aberrant, 22:51549
effects on chromosomes of mice and rats, protective effects of chemical agents against aberrant, 22:47554

effects on chromosomes of Nigella, effects of seed exposure on aberrant, 24:25462
effects on chromosomes of Nigella, RBE for aberrant, in comparison to alpha, fission neutron, γ, 24:4598
effects on chromosomes, mechanisms of effects of LET and OER on, aberrant, 22:25818
effects on circuits and semiconductor devices, transient currents from, 21:14520 (SC-DC-66-2443)
effects on conditioned reflexes of mice, 22:12753(T) (NASA-TT-F-413, pp 130-45)
effects on conditioned reflexes of rats, comparison of, with fast neutron and γ, 22:12755(T) (NASA-TT-F-413, pp 158-74)
effects on content of choline in liver of rats, effects of dose on, 22:21434
effects on copper and gold thick foils, production and annealing of defects from, (E), 22:39160 (N-68-21219)
effects on copper and tungsten at 15 to 20°K, 22:2666(R) (NYO-3653-2)
effects on copper crystals, 23:30612(R) (ORNL-4408)
effects on copper single crystals, 21:26871
effects on copper, stress-induced ordering of point defects near 10°K from, 23:8669
effects on corn, RBE for cytogenetic, 22:12838
effects on creep of thorium at 273 to 473°K, 22:25133 (NAA-SR-12549)
effects on crystal structure of sodium fluorides, etching studies of, 21:7341
effects on crystalline alkali metal azides, bromates, and nitrates, 25:54638
effects on crystalline choline chloride, ESR spectral studies on, 23:9426 (UCRL-18216, pp 99-112)
effects on crystalline solids at 0.7 to 2.5 MeV, (E), 25:45533 (AD-718433)
effects on crystalline trypsin, EPR spectral studies on radicals produced by, 22:2144
effects on cyclopropane, 2,2-dimethylpropane, methane, and propane, reaction intermediates of carbon-11 recoil atoms in, 22:14528
effects on defect clusters in copper and gold, 22:43614 (ANL-7299, pp 290-308)
effects on defect clusters in gold at 0.5 to 100 MeV, 22:21739
effects on defects in copper and tungsten at low temperatures, 23:10237(R) (NYO-3653-3)
effects on degradation of titanium oxide coatings at low pressures, 22:17191
effects on density of vitreous silica, 23:3564
effects on deuterium desorption from nickel, at 18 keV, 24:40167
effects on development of potato plants from irradiated tubers, RBE for, 21:16518(T) (JPRS-38272, pp 148-9)
effects on development of potato seedlings, 21:16517(T) (JPRS-38272, pp 7-8)
effects on diabetes retinitis, comparison of therapeutic, to effects of hypophysectomy, 22:31150
effects on diamond, (E), 25:45533 (AD-718433)
effects on diffusion of boron in monocrystalline silicon at 10 to 50 keV, 25:16616
effects on discontinuous tantalum films at 150 keV and 30°K, annealing of, 25:56314
effects on discrimination learning and visual acuity of squirrel monkeys, 25:49290
effects on displacement cascades in gold at 0.7 to 2.5 MeV, 24:14827
effects on distribution of phosphorus-32 in blood serum proteins, brain, and liver of rats, 22:52001
effects on DNA and RNA in bacteriophages, fast, 23:41511
effects on DNA in Escherichia coli, target theory interpretation of, 22:36218
effects on DNA of bacteriophage phiX174, inactivating, 23:20138
effects on dogs and rats, effects of dose fractionation on RBE for, 22:23652
effects on dogs, effectiveness of partial-body shielding against lethal, 25:39922
effects on dogs, mice, and rats, RBE of high energy, 22:23670
effects on dogs, protective effects of head shielding against, 22:45552
effects on dogs, protective effects of partial-body shielding against lethal, 25:52097
effects on dogs, protective effects of partial-body shielding against, 25:21894
effects on dogs, use of immunobiological changes to determine extent of 126 MeV, 24:879
effects on doped gallium arsenide, depth distribution of defects induced in, 25:7454
effects on drift-field solar cells, 21:34931(R) (N-66-28417)
effects on Drosophila, mutagenic, 21:36546
effects on duration of mitosis in cells of cornea of mice, 22:33929
effects on elastic moduli of copper and tungsten, 23:27113
effects on elastic modulus of monocrystalline tungsten at 10 MeV and 77°K, 25:29903(R) (NYO-3653-5)
effects on electric conductivity of aluminum, copper, and gold at 4.2°K, (E), 21:37620
effects on electric conductivity of dilute copper, gold, and silver alloys, 21:6854
effects on electric conductivity of germanium at 20 to 140 keV, (E), 23:3590
effects on electric conductivity of n-type germanium, (E), 21:18832
effects on electric properties of n- and p-type germanium at 660 MeV, 23:51754
effects on electric resistivity of copper and gold thick foils, (E), 22:39160 (N-68-21219)
effects on electronic devices, trapped, 21:8663
effects on electroshock seizures in rats, effects of dose on, 23:20396
effects on emission spectra of benzene—cyclohexane systems, 25:6345 (BNWL-SA-3526)
effects on endothermic reactions in plastic phantoms, calorimeter for measurement of, 23:11752 (BNWL-481-2, pp 155-200)
effects on erythropoiesis in beagle dogs, effects of postirradiation hypoxia on sublethal whole-body, 23:35889
effects on erythropoiesis in dogs, effects of hypoxia on, 23:29573 (UCRL-18347, pp 71-81)
effects on Escherichia coli and mice, RBE for, 22:8519 (CONF-670305-, pp 155-73)
effects on Escherichia coli, LET for, 23:48016
effects on Escherichia coli, review of lethal and mutagenic, 22:40622
effects on ethylene, 22:2119
effects on excitability of brain of rats, effects of dose on, 25:8758(R) (UCB-34-P-82-10)
effects on eyes of beagle dogs, effects of dose on pathological, 25:55319 (UCD-472-118)
effects on eyes of mice, RBE for cataractogenic, 24:51050
effects on eyes of rabbits, effects of dose and LET on RBE for, 25:55317 (CEA-CONF-1744)
effects on fern spores, mutagenic, 23:6425
effects on ferrous sulfate heptahydrate, Moessbauer study of, 25:29151
effects on fluorescence fading of scintillators, 21:12646(T) (ANL-Trans-417)
effects on fluorite electric conductivity and optical absorption, 660-MeV, (E), 22:26507
effects on formation of dislocation loops and voids in nickel at 4-MeV, 24:51187
effects on formation of stacking faults in thin films of copper at 70 to 300°C, 22:23851
effects on function of cardiovascular sensory receptor systems in dog brains following direct exposure, 23:33870
effects on function of endocrine glands and incidence of obesity in rats, 22:33961
effects on gadolinium and neodymium, production of neutron-deficient rare earth isotopes by, 22:33391
effects on gallium arsenide and silicon solar cells, 21:14518 (N-66-39899)
effects on gallium arsenide at 200 keV, annealing of damage induced in, 25:27862
effects on gallium-antimonide and gallium-arsenide transport properties, 21:42174
effects on gaseous carbon dioxide, effects of carbon monoxide, oxygen, and sulfur hexafluoride on, 23:47537
effects on genetics of male Drosophila, 21:22739
effects on genetics of seeds, RBE for, 21:16519(T) (JPRS-38272, pp 371)
effects on germanium and silicon junction field effect transistors at 22 and 128 MeV, 21:12744 (N-66-37676)
effects on germanium and silicon thin crystals, direction and energy distribution in, 21:23314 (BNL-994, pp 70-102)
effects on germanium and silicon transistors, 21:10716 (N-66-38342)
effects on glycogen content in brain of cats and monkeys, 21:43344
effects on gold foils, determination of damage function from, 21:36880 (JUL-464-RW)
effects on gold single crystals at 120 keV, influence of channeling on damage production from, (E), 24:42800
effects on gonads of male rats, RBE for, 25:46966 (CEA-CONF-1781)
effects on growth of potatoes, protective effects of propyl gallate against, 23:12146(T) (JPRS-45483, pp 21-6)
effects on head of rabbits, neuropathological 2.2-GeV, 22:47592
effects on heating of gases, optical line spectra due to, (T), 25:58629
effects on hematopoietic and nervous systems of dogs, effects of dose on latent pathological, 23:6575
effects on hematopoietic system in dogs, effectiveness of body shielding for protection against, 25:8755(T) (JPRS-51660)
effects on hematopoietic system in rats, whole-body, 21:16434(T) (JPRS-38272, pp 442-3)
effects on hematopoietic tissue of mice, combined effects of acceleration on, 23:35868(T) (AD-682794)
effects on histamine content of tissues in rats, effects of dose on, 22:25726
effects on human skin following neutron capture therapy using boron-10, effects of increasing absorbed dose on development of pathological, 24:17156
effects on immune responses of antibodies in mice, 2.2-GeV, 25:4470
effects on impulse transmission in frog sciatic nerve, effects of LET on RBE for, 25:55215
effects on impurity diffusion in germanium at 600°C, (E), 22:37015
effects on induction of bacteriophage in lysogenic Escherichia coli, 21:20443
effects on induction of chromosome aberrations in mouse corneal epithelium, RBE of, 21:16439(T) (JPRS-38272, pp 356-7)
effects on induction of chromosome aberrations in bone marrow of rats, 21:16444(T) (JPRS-38272, pp 154-5)
effects on induction of DNA strand breaks in animal and plant cells, comparison of RBE of, with α, β, charged particles, and x radiation, 25:6634 (CONF-691106-, pp 153-72)
effects on induction of lesions in liver of monkeys at 32 and 55 MeV, 21:22702
effects on infectious DNA of bacteriophage phiX174, 23:26691
effects on infrared spectra of silicates at 5 keV, 25:43446
effects on inorganic phosphors at 50 to 250 keV, light emission, 25:21506
effects on integral coverslips for silicon solar cells, (E), 23:7924
effects on intermetallic compound Nb_3Sn used in superconducting magnets, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
effects on intermetallic Cu_3Au, disorder from, (E), 21:29385
effects on ionization of thin layers of tissue-like gases, 22:6311 (BNWL-SA-1396)
effects on ionization state in lower atmosphere, 21:699
effects on ionosphere of low-energy, production of sporadic-E by, (T), 22:22006
effects on ionosphere, auroral hydrogen emission from, 21:5137
effects on iridium, field ion microscope study of 10-MeV, 21:42158 (UCRL-17633)
effects on iridium, field ion microscope study of damage from, 22:39188
effects on iron oxalates at 5 MeV, spectral studies on, 24:38959
effects on iron-59 content of blood plasma and erythrocytes in dogs, effects of altitude and hypoxia on, 22:31209 (UCRL-17751, pp 81-141)
effects on isomerization of 2-butene in benzene solution, 22:16606
effects on junction and MOS field-effect transistors and integrated circuits, 21:14521
effects on kidneys of dogs, morphology of long-term, 25:24339(T) (JPRS-52402, pp 17-22)
effects on laboratory animals, irradiation facilities for studies of, 22:51935
effects on lasers, 21:14921(R) (N-66-39911)
effects on lead telluride at 200-keV, n—p photoelectric diodes produced by, 25:29397
effects on liquid methanol, effects of LET on yields from, 24:52563(R) (NP-18217)
effects on lithium amide or hydrogen—nitrogen mixtures, production of carbon-11-labeled cyanides by, 25:54683
effects on lithium fluoride crystals at 77°K, absorption spectra induced by, 24:3456
effects on lithium-doped silicon solar cells at 16.8 MeV, 21:6383
effects on liver of dogs, morphological, 21:45787
effects on liver tissues in monkeys, 32 MeV, 23:6590
effects on low- and high-pressure polyethylene films at 6.3 MeV, 25:54604
effects on luminescence and thermoluminescence of Apollo 11 lunar materials at 159 MeV, (E), 24:21544
effects on luminescence of nitrogen at 5 MeV, 24:22672(R) (ORO-3349-7)
effects on luminescence spectra of lithium hydride crystals, (E), 22:46239
effects on lunar surface materials, (E), 25:24837
effects on lunar surface, chemical alterations from cosmic-radiation, solar-flare, and solar-wind, (T), 25:22348
effects on lunar-like surface materials, luminescence and chemical, (E), 23:46242
effects on lunar-type rocks, (E), 23:6873
effects on lymphocytes of monkeys and rats, 25:44950
effects on lysozyme and RNAase, ESR analysis of, 22:12820
effects on Macaca mulatta, comparison of hematologic whole-body γ and x and pulsed, 25:24147(R) (AD-711038)
effects on magnesium lanthanum nitrate targets, proton polarization and relaxation in, 21:46147
effects on majority carriers in n- and p-type silicon single crystals, energy dependence of, 23:1514 (N-68-27639)
effects on mammalia, beam defocusing at ORNL Isochronous Cyclotron for studying, 22:35174 (ORNL-4217, pp 96-118)
effects on mammalian cells and organs, RBE for 126 to 730 MeV, 23:45922
effects on mammals and man, review of therapeutic, 22:12892
effects on mammals and man, therapeutic evaluation of high energy, 22:12893
effects on mammals, physical factors affecting 600 MeV and 3 BeV, 24:14601
effects on man during space flight, pathological, 23:29851
effects on man, excretion of induced radioisotopes following therapeutic, 23:7440(R) (BNWL-531-4)
effects on man, remote pathogenic, 22:31239
effects on metal foils at MeV ranges, design of low-temperature facility for studies of, 25:57620 (RISO-204)
effects on metals at MeV energies, 25:7475(R) (RISO-215)
effects on metals, production of displacement damage in, 24:40160 (ORNL-TM-3013)
effects on mice, evaluation of compounds for protection against, 21:10999
effects on mice, protective effects of AET against, 21:24592
effects on mice, protective effects of mexamine against latent 0 to 1300 rad 600-MeV, 24:27615
effects on mice, RBE compared with x rays, 23:6589
effects on mice, RBE for carcinogenic, 25:6771 (CONF-691106-, pp 255-67)
effects on mice, RBE for high energy, 22:12929
effects on mice, test for selection of compounds for protection against, 22:25867
effects on microstructure of Type 321 stainless steel at 0.75 MeV and 400 and 500°C, 25:29915
effects on mirrors in space optical systems, 24:27484 (N-70-20665)
effects on mitosis in bone marrow cells of rats, RBE for, 21:16444(T) (JPRS-38272, pp 154-5)
effects on mitosis in epithelium of mice, effects of dose on, 22:14989
effects on mitotic activity of cultured human cells, RBE for, 21:16533(T) (JPRS-38272, pp 120-1)
effects on mixtures of nitrogen and hydrocarbons at 10 Mev, 21:120
effects on molecules, theoretical studies on activating, 22:25400

effects on molybdenum and molybdenum carbonyls at 600 MeV, reactions of recoils from, 24:13873 (KFK-1067)
effects on monkeys, high-energy, 22:8525 (CONF-670305-, pp 318-28)
effects on monkeys, leukemogenic, 23:14248
effects on monkeys, measurement of simulated solar flare, 25:26920(R) (AD-711041)
effects on monkeys, somatic, 22:12926
effects on monocrystals of potassium chloride, reactions of recoil phosphorus in, 24:13888
effects on morphology of nasal mucosa and survival of rats, 22:51992
effects on mortality of mice, 21:28668
effects on MOS capacitors at 25 MeV, 25:37702
effects on MOS transistors, mathematical model of, 24:50654 (NP-18443)
effects on motility of bull sperm, mechanisms in 24 MeV, 23:41421
effects on Mylar capacitors, 22:416(R) (AD-648643)
effects on n- and p-type germanium at 660 MeV, recombination properties of, 25:45544
effects on n- and p-type germanium, annealing and energy level spectrum of defects produced by 600-MeV, 25:59159
effects on n- and p-type silicon at 20, 40, and 158 MeV, annealing of, (E), 22:46197 (N-68-25392)
effects on n- and p-type silicon, annealing of 22-, 40-, and 158-MeV, (E), 23:30617 (N-69-22552)
effects on n-type germanium at 660 MeV, annealing of, 25:45542
effects on natural diamond crystals at 0.7 to 1.5 MeV, 23:15888
effects on negative electrolytic breakdown in lithium fluoride crystal, 21:7339
effects on neoplasms compared to effects of deuterons and alpha particles, 23:48171
effects on nervous system in dogs, relation of hemorrhagic syndrome to, 21:36721
effects on olivine and enstatite at 2 keV, (E), 22:43811
effects on olivine at 2 keV, (E), 22:11186
effects on optical properties of aluminum and silver thin films, 21:36895
effects on pathology of hematopoietic system of mice, additive effects of acceleration on, 21:20358
effects on pathomorphology of mouse, rabbit, and rat brain in mixed γ and γ—neutron fields, whole-body, 25:29644
effects on perfluorohydrocarbon—oxygen systems, effects of dose and dose rate on reactions of recoil carbon-11 produced by, 24:41359
effects on performance of shielded and unshielded silicon solar cells aboard Explorer 23 satellite, 23:759 (N-68-27541)
effects on peripheral blood count in monkeys, chronic pulsed 150 MeV, 24:50935 (AD-705147)
effects on phage Tl, inactivating and mutagenic slow, 24:50830
effects on photoconductivity of germanium at 660 MeV, current oscillations induced in, 25:7452
effects on photocurrent of n-type germanium, 25:56316
effects on photographic film, 25:4406 (N-70-35843)
effects on photographic film at high energies, 25:4407 (N-70-35923)
effects on photographic films in ATM orbit, analysis of degradation, 25:23934 (N-70-37568)
effects on photometric properties of aluminum, scandium, and silicon oxides at 2 keV, (E), 22:34800
effects on photomultipliers aboard OGO-2 and OGO-4 satellites up to 1500 km, 23:26638 (N-69-18074)
effects on photovoltaic properties of n—p silicon solar cells of 4.6-MeV, (E), 21:16967
effects on pituitary function, therapeutic dose, 21:28620
effects on plants during space flight, 22:12899(T) (N-67-29205, pp 77-82)
effects on plants, RBE of 126 and 660 MeV, 22:36273
effects on point defects in magnesium oxide at 10 to 50 MeV, 24:14996
effects on polyethyleneterephthalate, effects of thermal hydrogen atoms from, on biological materials, 23:31656
effects on polymerization of alkene oxides, 24:27165(P)
effects on potassium and sodium chloride crystals containing lead and manganese, mechanism of electron centers formed by, 23:44509
effects on potassium bromide—potassium chloride crystals, thermal stability of F centers, 23:1550
effects on potassium chloride and sodium chloride single crystals, trapped hydrogen atoms resembling U$_2$ centers in, (E), 24:47308
effects on potassium chloride monocrystals, chemical states of recoil phosphorus from, 24:13890
effects on potassium chlororhenate or sodium perrhenate, thermal annealing of recoil rhenium atoms from, 25:57497
effects on potassium iodate, effects of iodine recoils on thermal annealing of, 23:9469
effects on potassium iodide crystals at 3.2 MeV, efficiency of F-center accumulation in, 24:19968
effects on potassium iodide crystals at 3.5 MeV, F centers induced in, 25:11965
effects on potato plants, effects of eye and tuber exposure on, 23:6608
effects on potato seeds, protective effects of propyl gallate against, 22:45639
effects on primates, acute somatic, 22:12927
effects on primates, RBE for, 22:12928
effects on production of defects in silver films at 10 to 40 kV, 25:22124
effects on production of krypton fluorides, 25:57455
effects on properties of zinc oxide-base paints, 25:29105
effects on rabbit eyes, effects of dose on RBE for cataractogenic, 25:49283 (CEA-CONF-1782)
effects on rare earth complexes with phthalocyanine at 660 MeV, separation of spallation products from, 24:36332
effects on rat skin, tumorigenic, 21:20319(R) (NYO-2785-1)
effects on rats, effects of dose fractionation on RBE and recovery in comparison to cobalt-60 γ rays, 3-GeV, 23:45919
effects on rats, effects of dose on 120-MeV, 22:23668
effects on rats, effects of secondary radiation on RBE of high-energy, 23:903 (CEA-R-3447)
effects on rats, RBE for 120 MeV, 22:23668
effects on rats, repair of injuries manifested up to 187 days following exposure, effects of dose fractionation on, 23:29733 (CEA-CONF-1089)
effects on rats, review on remote sequelae of, 25:24225(T) (AEC-tr-7195, pp 439-58)
effects on rectum of rats in comparison to effects of x rays, pathological high energy, 23:48209
effects on reflectance of aluminum, magnesium, and nickel, 22:49771 (N-68-23560)
effects on reflectance of coated aluminum and nickel solar mirrors, 22:31440
effects on reflectance of optical and thermal control coatings for use in space, (E), 24:44747
effects on reflectance of thermal control coatings for space uses, 23:3167
effects on refractive index of fused silica at 1.5 MeV, (E/T), 22:46203
effects on reproduction of yeast, RBE for, 21:16532(T) (JPRS-38272, pp 77-8)
effects on resistivity of silicon, depth dependence of 6.3-MeV, 22:26524
effects on response of lithium-drifted silicon detectors, 21:26326
effects on rhenium salts, chemical states of radioactive rhenium produced from, 24:38947
effects on ribonuclease, protective effects of cystamine against, 23:14232
effects on righting reflex of frogs, 22:31209 (UCRL-17751, pp 81-141)
effects on RNA-ase activity in relation to stopping power of low energy electrons, 24:44415 (EUR-4452, pp 529-39)
effects on RNAase, protective effects of cystamine and low temperature against elastic collision and ionizing, 23:24532
effects on rock powders, relations of composition with thermal, 23:41761 (N-69-25406)
effects on satellite electronics, 21:30765
effects on seeds of cabbage and lettuce, effects of storage on, 24:17171
effects on seeds, development of internationally coordinated research on, 23:50441
effects on semiconductor diodes, solar cells, and transistors, 25:37706
effects on shielding, doses behind aluminum and polyethylene due to solar-flare and Van Allen belt, (T), 21:33498 (ORNL-RSIC-18)
effects on silicate minerals, EPR spectra of defects produced in, 24:28428
effects on silicon at 1 MeV, annealing of insulating surface layers formed in, 25:19822
effects on silicon at 200 to 400 kV, shallow donor state induced in, 25:27847
effects on silicon at 6.3 MeV, distribution of defects induced in, (E), 25:43463
effects on silicon carbide single crystals, dependence on particle energy and surface state of luminescence from, (E), 22:39182
effects on silicon crystal, orientation dependence of positive charge emission in, 24:6629
effects on silicon diodes at 2.8 MeV, annealing of ionized defects induced in, 25:19821
effects on silicon dioxide—zirconium dioxide pigment, 22:11093
effects on silicon n—p transitions at 400 keV and 6.3 MeV, annealing of, (E), 22:15634
effects on silicon n-p solar cells at 1 to 3 MeV, energy dependence of damage coefficient for, 24:21048
effects on silicon p^+-τ-n^+ diodes at 2.8 MeV, annealing of, 25:14431
effects on silicon solar batteries at high energies, 25:55099
effects on silicon solar cells, 21:2078
effects on silicon solar cells, 23:7925
effects on silicon solar cells, 21:18268(R) (PB-173549)
effects on silicon solar cells at 0.2 MeV, 25:482
effects on silicon solar cells at 4.6 MeV, annealing of, 25:1287
effects on silicon solar cells at,40 keV, 25:26564
effects on silicon solar cells at low energies, 25:21515
effects on silicon solar cells below 2 MeV, 25:42226 (AD-715261)
effects on silicon solar cells, annealing of, 21:13636
effects on silicon solar cells, studies of defects induced in, 24:51790 (N-70-30590)
effects on silicon solar cells, survey on, 23:17857(R) (N-68-31622)
effects on silicon solar-cell surfaces at 0.4 to 27.5 keV, (E), 22:13580
effects on silicon surface-barrier detectors at 5, 20, and 40 MeV, 22:47443 (N-68-24660)
effects on silicon, defect distribution in, (E), 23:51773
effects on silicon, paramagnetic centers from 3-MeV, 21:42189
effects on silicon/silicon oxide structures, charges induced in, 25:45557
effects on silicon—silica structures at 50 keV, electric charges induced in, 25:9566
effects on silver-activated zinc sulfide single crystals, luminescence from, (E), 21:21066
effects on skin of mice, pathological, 22:51934
effects on skin of monkeys, effects of dose on 32 MeV, 23:45905
effects on skin of rats, carcinogenic, 23:16379 (AD-668452)
effects on skin of rats, carcinogenic 13 MeV, 22:40852
effects on skin of rats, effects of dose on neoplastic, 23:29767
effects on skin of rats, effects of pore size of sieve pattern on neoplastic, 24:21281(R) (NYO-2785-4)
effects on skin of rhesus monkeys, effects of dose on, 23:20367
effects on sodium chloride and potassium chloride crystals at 4.5 MeV, activation energy of stored energy release in annealing of, 25:45562
effects on sodium chloride crystals at 3.5 MeV, F-center destruction in, 25:30655
effects on sodium chloride crystals at 4.5 MeV, release of stored energy in annealing of defects induced in, 25:14424
effects on sodium fluoride crystals, annealing of defects from, (E), 22:44250
effects on sodium halide single crystals, positron lifetime spectra as function of concentration of defects from, (E), 24:1277
effects on sodium hexachloroiridate at 660 MeV, thermal annealing of, 24:20789 (JINR-E6-4916)
effects on sodium nitrate at 5 MeV, 25:56318
effects on sodium nitrate, effects of LET and temperature on yields in, 23:4679
effects on solar cell cover glass of electrons and 22-MeV, effects of cerium doping on, 25:43008 (N-71-12278)
effects on solar cell power output, thermal annealing of, 22:24419
effects on solar cell power systems, 22:41400 (N-68-16191)
effects on solar cells at 0.5 to 2.7 MeV, 21:30764
effects on solar mirrors, 21:36951
effects on solar-cell filters and other spacecraft materials, 25:49589 (N-71-20402)
effects on solid organic compounds, electron spin echo studies on, 23:17476
effects on solutions of ferrous sulfate, LET studies on, 24:20801
effects on sorptive properties of magnesium oxide for ethylene, hydrogen, methane, and oxygen, 25:16619
effects on space flight personnel, factors affecting, 22:6847
effects on space vehicles, use of Lincoln accelerator facilities for studying, 21:12733 (AD-639962)
effects on spacecraft thermal control materials, 22:11094
effects on spacecraft thermal-control coatings, 21:41914
effects on spermatogonia in mice, RBE for, 21:32738 (ORNL-P-3085)
effects on stability of silicon semiconductor detectors as spectrometric devices, 22:2477
effects on stability of silvered and aluminized FEP teflon second-surface mirrors, 25:55656 (N-71-27736)
effects on stable elements in bodies of astronauts, 22:19400(R) (BNWL-531-1)
effects on stacking fault loops in copper, electron microscopic analysis of, 24:17340
effects on storage life of food, comparison of, with other forms of ionizing radiation, 22:49669
effects on stored energy in alkali metal halide crystals, kinetics of, (E), 21:21076
effects on stored energy of potassium bromide—potassium chloride solid solutions, 21:21079
effects on Streptomyces aureofaciens, mutagenic, 24:2622
effects on structure of DNA in Escherichia coli, by tie fast, 22:40598
effects on subsequent thermal decomposition of ammonium perchlorate, 24:13907
effects on superconducting Nb_3Sn, 23:39416
effects on superconducting Nb—Ti wire, 25:49070
effects on superconducting niobium—tin alloy critical current, 21:13499
effects on surface blistering in aluminum at 100 keV, correlation with hydrogen degassing, 25:8905
effects on surface reactivity of thorium dioxide, zinc oxide, and zirconium oxide, 25:16619
effects on surface-barrier silicon detectors, at .2 to .4 MeV, 25:21514
effects on surfaces of aluminum and gold at 30 to 100 keV, 21:3522(R) (N-66-29447)
effects on survival of cabbage and radish plants, combined effects of γ on, 25:8755(T) (JPRS-51660)
effects on survival of dogs, protective effects of paraffin shielding against, 23:12195(T) (JPRS-45483, pp 99-104)
effects on survival of monkeys, RBE for, 23:31897 (AD-681465)
effects on survival of rats, RBE for, 23:29733 (CEA-CONF-1089)
effects on swelling in Type 316 stainless steel, 25:39977(R) (AI-AEC-12993)
effects on swelling of helium-containing Type 316 stainless steel at 500°C, 25:58167(R) (AI-AEC-12987)
effects on swelling of Type 316 stainless steel, 25:32751(R) (HEDL-TME-71-43)
effects on tantalum films at 150 keV and low temperature, 25:59160
effects on testes of mice, RBE for mutagenic, 22:19408
effects on testes of mice, RBE of genetic, 22:51908
effects on thallium-activated cesium iodide crystals at 15 to 100 MeV, light yield in, 25:33406 (JINR-P1-5682)
effects on thermal control coatings, 23:44025 (N-69-23865)
effects on thermal control insulation materials, 23:18251
effects on thermal control materials, 23:41760 (N-69-24925)
effects on thermal reflectance of Alkak, Kapton, white paint and Teflon at 40 keV, 25:786 (N-70-32499)
effects on thermoluminescence of Apollo 11 sample 10084, (E), 25:35824
effects on thermoluminescence of meteorite powder at 3 GeV, 25:36298
effects on thin films of copper at 1 MeV, 24:25750 (ANL-7417, pp 111-24)
effects on thin silver films, 22:44259
effects on thin silver films, activation energies for annealing of defects formed in, (E), 24:6613
effects on thin-film solar cells at 100 keV to 2.4 MeV, 24:33983

effects on thin-film solar cells, (T), 21:16848
effects on thoria single crystals at 18 MeV, absorption spectral study of defects induced in, 24:47299
effects on tin compounds, Moessbauer studies on, 25:51534
effects on tissue-like sites at 3.0 MeV, ionization-distribution and secondary-radiation, (E/T), 25:38523 (BNWL-1551(Pt.2), pp 80-5)
effects on tissues adjacent to bone, use of polythene phantom to study recoil, 22:516
effects on transistors and solar cells, 22:19231
effects on transmission spectra of gallium arsenides, 5-MeV, (E), 23:39538
effects on tungsten (100) surface at 50 to 225 keV, electron emission in, (E), 22:17402
effects on tungsten at 9 and 11.1 MeV, 24:6616
effects on ultrastructure of liver cells of monkeys, 22:6756
effects on uv reflectance of mirrors at 10 keV by polymer film formation, 25:23936
effects on vestibular analyzer of dogs in relation to hazards of space flight, 24:847
effects on void formation in Type 316 stainless steel at 100 keV, 24:14847
effects on void formation in aluminum subjected to preinjection of hydrogen, 25:2816 (ORNL-4570, pp 16-19)
effects on void formation in helium-doped nickel at 1.4 MeV, relations with irradiation temperature, 25:32753
effects on void formation in helium-injected Types 316 and 321 stainless steels at 500°C and 0.75 MeV, 25:40081
effects on void formation in nickel, 25:4051(R) (AI-AEC-12972)
effects on void formation in nickel, (E), 24:38512(R) (AI-AEC-12914)
effects on void formation in Type 304 stainless steel at 1.25 MeV, 25:49486 (CONF-710601-10)
effects on void formation in Type 316 stainless steel at 500°C at 1.2 MeV, 25:42917
effects on void formation in Type 316 stainless steel, relations with helium content, 24:39598(R) (AI-AEC-12948)
effects on void formation in Type 316 stainless steel, relations with flux and temperature, 25:58166(R) (AI-AEC-12980)
effects on void formation in Type 316 stainless steel, 24:21336(R) (AI-AEC-12913)
effects on void formation in Type 316 stainless steel at 1.2 MeV, 24:36937 (AI-AEC-12961)
effects on water, effects of LET on, 22:23034 (IA-1128, pp 78-96)
effects on weights of spleen and thymus of mice, RBE for, 23:45904
effects on yield of chromosome aberrations in Tradescantia microspores, 21:13016
effects on zinc sulfide—copper powders, luminescence, 23:47913
effects on zinc telluride, use to fabricate MIS electroluminescent diodes, 24:35543
effects on zinc-activated zinc oxides, deterioration depth, energy loss, and light output in, (E), 22:13586
electric charge of, constancy of, 22:5131
electric charge of, cosmological consequences of excess, (T), 22:31564
electric charge of, time variation of, 22:5132
electric dipole moment of, anti $p + p \to e^+ + e^-$ and $e^+ + e^- \to$ anti $p + p$ interactions for modulus and phase of form factors of, (T), 25:12224
electric dipole moment of, experimental test of, (T), 22:7424
electric dipole moment of, limit on, (E), 23:32604
electric polarizability from $\gamma + N \to \gamma + N$ interactions, method for derivation of low-energy theorem for, 22:44364
electric polarizability of, symmetric quark model for, 25:27983
electromagnetic structure effects on cross sections for $p + p \to p + p + \gamma$ interactions, (T), 25:17519
electromagnetic structure functions of, dispersion sum rules for, 24:52029
electromagnetic structure of, determination from effects on vacuum polarization in mesic atoms, (T), 24:8584
electromagnetic structure of, effect on cross sections for $\pi^- + p \to n + e^+ + e^-$ interactions, 24:24361 (JINR-P2-4970)
electron capture below 100 MeV from deuterium 1s and helium $1s^2$ levels, cross sections for, (T), 22:29262
electron capture by, calculation of cross sections for, using Born approximation, 22:52482
electron capture from argon, nitrogen, and oxygen atoms, Born estimates for, 22:29263
electron capture in H I regions by cosmic, Lyman-α production in, (T), 25:14061
electron coupling to electromagnetic field of, spinors in Weyl geometry for, 24:26478
electron pickup in metallic films at 7 to 40 keV, (E), 22:50044
electrostatic forces between, (T), 21:41726
emission characteristics from Sun, (E), 25:49659
emission during proton flare of July 7, 1966, abundance relative to alpha particles, (E), 23:22832
emission during solar flares, (E), 25:35758
emission during solar flares, classification system for, (T), 25:27388
emission during solar flares, forecasting of, (E), 25:22322
emission during solar flares, longitude effects on delay of, (E), 25:58612
emission during solar flares, relation to x-ray bursts, (E), 23:36426
emission during solar maximum, (T), 22:43725
emission during the July 7, 1966 proton flare, (E), 23:22815
emission for A = 50 hyperfragments, kinematical calculation of Λ + n and Λ + p stimulated interactions for energy spectra of, 22:9625
emission from cells during proliferation, effects of number of recorded traces on time lapse since cessation of life processes on, 23:35586
emission from electron dissociative reactions with molecular hydrogen, energy of, 21:33203
emission from heavy primary interactions in emulsion, mean free path for, (E), 22:24074
emission from meson (π) reactions with xenon at 9 GeV in bubble chamber, energy and emission angle for, (E), 22:17865 (INR-P-844/VI/PH)
emission from meson reactions (π^+,p) with carbon-12, distorted-wave effects for differential cross sections for, (T), 25:28048
emission from nucleon reactions with aluminum, lead, and oxygen at 750 to 2000 MeV, analytic representation of spectra for, 22:46459 (ORNL-TM-2277)
emission from p + p interactions at 24 GeV/c, isobar production effects on transverse momentum from, (T), 22:13768
emission from polarized deuteron reactions (d,p) at 100 to 500 keV, left—right asymmetry from, (E), 21:25425
emission from polarized deuteron reactions (d,p) with helium-3 and deuterium at 150 and 450 keV, parity violation in asymmetry of, 24:3718
emission from solar active regions, (T), 23:25114
emission from solar flare of Aug. 28, 1966, (E), 23:36428
emission from solar flare of Jan. 28, 1967, (E), 24:10291
emission from solar flare of July 7, 1966, (E), 22:52345
emission from solar flare of July 7, 1966, spatial gradient of, (E), 23:22814
emission from solar flare of Sept. 2, 1966, (E), 22:52408
emission from solar flare of Sept. 26, 1963, (E), 23:46228
emission from solar flare on March 24, 1966, (E), 22:878
emission from solar flares, 21:6921
emission from solar flares of May 23 and 28, 1967, (E), 23:27289 (N-69-10670)
emission from solar flares, (E), 23:10408
emission from solar flares, (E), 22:879
emission from solar flares, prediction of, 22:52308 (AD-669347)
emission from solar-active regions, early detection of, (T), 23:44104 (N-69-30268)
emission from Sun during cycle 19, (E), 23:1116 (N-68-25880)
emission from Sun during the period Jan. 24 to Feb. 24, 1967, 23:16593 (N-68-31506)
emission from Sun on Feb. 5—9, 1965, relation to polar cap absorption, (E), 23:5163
emission from sunspot groups, (T), 23:25082
emission from unstable nuclei in nature, (T), 21:37040
emission in fission, probabilities and kinetic energies of, (T), 25:25798 (NRCN-252)
emission in July 7 to 9, 1966 solar flare, 0.5- to 20-MeV, (E), 22:43792
emission in radioactive decay of nuclei, review, 21:15525
emission in solar flare of Jan. 28, 1967, (E), 22:36694
emission in solar flares, (E), 22:49976
emission in solar flares, (E), 24:10290
emission in solar flares, (T), 23:27288 (N-69-10668)
emission in solar flares, forecast system for, (E), 23:27291 (N-69-11372)
emission in solar flares, forecasting of, (T), 23:44096 (AD-685767)
emission in solar flares, long-term forecasts of, (T), 23:22844
emission in solar radio burst of Mar. 6, 1968, (E), 22:52379
emission in spontaneous fission of californium-252, (E), 21:19272
emission in uranium-235 neutron fission, (E), 22:14023
emission of 10-MeV, from Sun, (T), 22:8974
emission of correlated pairs of, in meson (π^-) reactions with xenon nuclei at 9 GeV in bubble chambers, 21:31775 (INR-787/VI/PH)
emission of recoil, in interactions of high-energy secondary cosmic particles, 22:7443
emission of solar, microwave bursts as indicators of intensity of, (E/T), 25:13867
emission of solar, relation to microwave bursts, (E), 25:55758
emission of solar, relation to microwave bursts, (E), 25:55757
emission of solar, relation to solar x-ray and radio bursts, (E), 22:19685 (CONF-670953-1)
emission spectrum of high-energy, produced from μ^- capture by nuclei at rest in emulsions, (E), 24:35860 (ITEF-707)
energies of primary cosmic, evaluation of, (T), 24:21982
energy absorption distributions at 1.7 MeV in cylindrical absorber, 23:50174 (BNWL-1051(Pt.2), pp 186-90)
energy absorption distributions at 1.7 MeV outside cylindrical absorber, 23:50107 (BNWL-1051(Pt.2), pp 191-3)
energy and distribution near and in transition region, solar wind, 21:15023 (LA-DC-6769)
energy and flux measurements of high-energy, fission foil—mica track detectors for, 24:9642 (UCRL-19364)
energy and intensity in magnetosphere, OGO 3 measurements of, 21:23113
energy and intensity of solar, space probe measurements of, 21:20650
energy and pitch-angle distribution of, during ionospheric vlf emissions, (E/T), 25:7236
energy cutoff of cosmic, at high latitudes during magnetospheric substorm, 23:44208
energy deposition in spherical water phantom of 160-MeV, transport calculations, 24:24106
energy deposition spectra measurements of, design of wall-less proportional counter for, 23:50108 (BNWL-1051(Pt.2), pp 194-6)
energy deposition spectra of 1.7-MeV, in microscopic volume simulated by proportional counter, 25:22582
energy distribution at 600 km, near south geomagnetic anomaly, 24:32721 (AD-700232)
energy distribution from .060 to 3.3 MeV at 6.6 Earth radii, magnetospheric, (E), 24:51533
energy distribution in collision cascades of, 22:25403
energy distribution in microscopic volume tissue phantoms, 40 MeV, 23:35742
energy distribution in radiation belts for L values between 2 and 4.5, 24:32726 (AD-701059)
energy distribution of 0.06 to 3.3 MeV, at 6.6 Earth radii, Oct. 2 to 13, 1968, (E), 25:2951 (AD-709723)
energy distribution of recoil, in tissues and tissue-equivalent materials, performance of silicon detectors in determining, 22:37988 (CONF-670545-, pp 178-84)
energy distribution spectra of solar, (E/T), 24:8365
energy flux at 6.6 R/sub E/ during magnetopause crossings, effect on electric fields, (E), 25:16941
energy flux in inner radiation zone, (E), 22:13368
energy flux in radiation belts in 1966, fast, (E), 25:9354
energy loss and range in elements at 1 MeV to 500 BeV, computer program for calculating, 21:908 (UCRL-11647(Rev.))
energy loss at 10 MeV to 100 GeV in silicon, calculations of average and most probable, (T), 25:42155
energy loss at 5 to 24 GeV/c in nuclear emulsions, 22:11575
energy loss Bragg curve for 1.3 GeV/c, effect of particle interaction on shape of, 23:10462
energy loss by ionization in materials at 0.1 to 1000 GeV, density-effect correction for, 24:35632
energy loss distribution in helium—carbon dioxide at 46.4 MeV, (E/T), 24:44975
energy loss distributions in thin layers, (E/T), 23:50106 (BNWL-1051(Pt.2), pp 176-83)
energy loss distributions in thin tissue-like layers, analysis of statistical parameters of, 23:13974 (BNWL-715(Pt.2), pp 181-225)
energy loss in aluminum at 7.27 MeV, absolute measurement of, (E), 22:35277
energy loss in gases at 0.4 to 3.4 MeV, (E), 24:28112
energy loss in germanium and silicon single crystals of 3- to 11-MeV, channeling effects in, (E), 21:40088
energy loss in gold and iron crystal foils, channeling effects on, (E), 22:29540 (COO-1053-9)
energy loss in gold crystals at 400 keV, effects of mosaic spread and twinning on, (E), 22:26476
energy loss in homogeneous absorber, calculation of straggling distribution of, 23:1613
energy loss in hydrogen- and methane-filled proportional detectors for neutron spectroscopy, 24:5918
energy loss in hydrogen-filled proportional detector above 1 keV for neutron slowing-down time spectroscopy, 23:29215
energy loss in materials in channeling directions in MeV range, (E), 24:42521
energy loss in nuclear emulsions at relativistic velocities, (E), 24:40234
energy loss in plastic phosphor NE-102, relation to light output, 21:8607
energy loss in silver-activated zinc sulfide, (E), 21:37616
energy loss in thick foils, computer program for calculating, 24:51383 (LA-4443)
energy loss in thin silicon detectors at 730 and 45 MeV, (E), 22:11547
energy loss in water above 1.1 and 8.0 MeV, contributions of spin, anomalous magnetic moment, and form factors to, (T), 23:46743
energy loss of 1.4-MeV, channeled through aluminum single crystals, (E), 23:23250
energy loss spectra of 6.72-MeV, in sodium chloride and potassium bromide single crystals, effects of crystal orientation on, 22:46248
energy loss straggling in thick aluminum and gold absorbers, (E), 24:30138
energy loss to ionization in plastic scintillators, density effect and shell corrections to rate of, 25:48936
energy losses in aluminum, beryllium, lucite, quartz, sapphire, and silicon at 20 MeV, (E), 21:46712
energy losses in aluminum-27 at 6 MeV, (E), 23:17107(R) (OU-LNS-68-1)
energy losses in anthracene, terphenyl, and plastic scintillators, 21:3648
energy losses in calcium, calcium fluoride, carbon, and gold at 0.4 to 6 MeV, (E), 21:3656
energy losses in copper single crystals, effects of crystallographic orientation on, (E), 22:5809(R) (ANL-7354)
energy losses in gases, (E), 21:3671
energy losses in homogeneous absorber, calculation of straggling distributions of large, 23:3263 (RHEL/R-164)
energy losses in matter, below 12 MeV mathematical analysis of data from, 23:20215 (MIT-952-5(Pt.1), pp 137-83)
energy losses in nickel at 20 to 95 keV, (E), 21:28999
energy losses in selenium, (E), 25:27833
energy losses in silicon at 46 MeV, distribution of, 23:10928 (UCLA-10-P-18-10)
energy losses in silver foils at 0.2 to 40 keV, (E), 22:17756
energy losses in single crystals of gold, silver, tantalum, and tungsten, in channeling effects on, 23:17103(R) (ANL-7481)
energy losses in tissues, development of biological models for, 24:32024(R) (N-70-13526)
energy losses of primary cosmic, in interplanetary space, (T), 24:47046
energy measurement of 10 to 1000 GeV/c, system for detecting transition radiation for, 23:7791(T) (NP-tr-1717)
energy measurements at 10 to 1000 GeV, ionization spectrometer for, 24:29577
energy measurements of 200- to 600-MeV, use of nuclear emulsions for, 22:6645
energy measurements of solar, near polar caps, 24:35089 (AD-701739)

energy modulation of galactic cosmic, solar, 21:3703 (N-66-29968)
energy range in bubble chambers, analytical formulas for calculating, 22:30865
energy spectra and flux of splash and reentrant albedo of cosmic, (E/T), 21:13408
energy spectra and fluxes of 100-keV to 5-MeV, sounding rocket experiment for, 25:49798 (NP-18976)
energy spectra and pitch angle distribution in auroral zone, (E), 21:2112
energy spectra and pitch-angle distribution in magnetosphere, (E/T), 24:30234
energy spectra and relative intensity of, emitted in thermal neutron fission of plutonium-239, 23:46984 (INR-1010)
energy spectra and time profiles of solar, during June 9, 1968 flare, rigidity correlations with, 23:51265 (CEA-CONF-1404)
energy spectra at 10^{10} to 10^{13} eV recorded with Proton-1 and -2 spectrometers, (E), 22:11284
energy spectra at 10^{10} to 10^{14} eV recorded by Proton-1 and -2 ion calorimeters, (E), 22:11285
energy spectra at satellite altitude, ATS-B experiment for measurement of, (E), 24:12688 (N-70-11028)
energy spectra at sea level for 0.05- to 6.0-GeV/c cosmic, (E), 24:19792
energy spectra between 3 and 30 keV in pulsating aurora, (E), 25:45376
energy spectra during magnetic storms, 21:37297
energy spectra from D(d,p)T reactions in copper, gold, and nickel, (E), 21:9667
energy spectra from n + d break-up interactions at 14.4 MeV, Amado model for, (T), 24:52116
energy spectra from proton reactions with emulsion nuclei at 19.8 GeV/c, (E), 23:52122
energy spectra from single-crystal silicon, high-energy humps in backscattered 0.5- and 1.0-MeV, (E), 25:43459
energy spectra in auroral zone, satellite measurements of, 22:5267
energy spectra in inner radiation belt, 21:9431
energy spectra in inner radiation belts, (E), 24:8388(T) (N-69-37380)
energy spectra in inner radiation zone during Oct. 1963 to Dec. 1968, 24:17808
energy spectra in ionosphere from OV 1-2 spacecraft, 21:41893(R) (AD-648719)
energy spectra in ionosphere of 1- to 30-MeV, (E), 25:11813
energy spectra in radiation belts, variable-thickness spinning wheel simulation of, (T), 25:16891 (N-70-37510)
energy spectra in Sept. 2, 1966, solar particle event, (E), 22:38654 (N-68-17252)
energy spectra measurements of cosmic, at 10^{10} to 10^{13} eV, 21:18472(T) (UCRL-Trans-1340)
energy spectra mirroring near magnetic-equator outer radiation zone, directional differential of 200 eV less than or equal to E less than or equal to 1 MeV, (E), 25:11786
energy spectra near earth's bow shock, Vela-4 measurements of, 24:17806
energy spectra of 0 to 20 keV, during auroral breakups, (E), 25:7309
energy spectra of 1- to 30-MeV, over northern polar cap during Feb. 25, 1969 solar event, (E), 25:27561
energy spectra of 2.3 to 70 MeV, during PCA following Feb. 24-25 solar event, (E), 25:27563
energy spectra of 200 eV to 1 MeV, in outer radiation belts, (E), 25:16878 (AD-710769)
energy spectra of 30- to 120-MeV, following Feb. 25, 1969 solar event, (E), 25:27562
energy spectra of 4- to 80-MeV/nucleon cosmic, two distinct populations in, (E), 24:12941
energy spectra of 40- to 400-GeV primary cosmic, ionization spectrometer and spark chamber study of, 24:3204
energy spectra of auroral zone, at 0.5 to 20 keV, (E), 24:17834
energy spectra of auroral, ionization rate and electron density height profiles for, 25:5010
energy spectra of cosmic solar, satellite observations of, (E), 25:27533
energy spectra of cosmic, at 100 to 2000 MeV, solar modulation of differential, 22:38823 (N-68-16723)
energy spectra of cosmic, at 100 to 2000 MeV/nucleon, 22:45975
energy spectra of cosmic, between 5 x 10^{9} and 10^{12} eV, (E), 21:31269
energy spectra of cosmic, differential, 21:18477
energy spectra of cosmic, measurement of, 21:46181 (N-67-18751)
energy spectra of disturbed and quiescent magnetospheric, differential, (E), 25:2950 (AD-709363)
energy spectra of high-energy cosmic, in atmosphere, (T), 22:21931
energy spectra of primary cosmic, (E), 24:10400 (HASL-216)
energy spectra of primary cosmic, (E/T), 25:4981
energy spectra of primary cosmic, at 10^{12} to 10^{14} eV, (E), 25:49764 (AD-720896)
energy spectra of primary cosmic, near geomagnetic equator, (E), 23:44207
energy spectra of recoil, from thermal neutron decay in vacuum, (E/T), 23:39680
energy spectra of solar, Explorer-35 data from July 20, 1967 to May 14, 1968 of, (E), 25:43231
energy spectra of solor, at 5 to 50 keV in interplanetary medium, (E), 24:17769
energy spectra of trapped 0.3- to 74-MeV, Aug. 29 to Nov. 15, 1968, (E), 25:27625
energy spectra of, effects of thickness on resolution of E-dE/dX spectrometer for measuring, 23:46940(R) (COO-1549-15)
energy spectra of, in inner belt, 0.8- to 1000-MeV, (E), 24:5073
energy spectra of, produced in collisional dissociation of fast H_2^+ ions, (E), 22:50058
energy spectra, intensity, and pitch angle distribution in radiation belts, 21:9432
energy spectrum of 10^{10}- to 10^{11}-eV cosmic, (E), 24:35231
energy spectrum of cosmic, (E), 23:12598
energy spectrum of cosmic, between 20 and 100 MeV, (E), 24:12667
energy spectrum of, associated with Sept. 29, 1968 solar flare, (E), 25:24984
energy spectrum, intensity, and temporal variations in ionosphere of solar, (E), 22:11326
energy straggling in gases at 100 to 500 keV, (E/T), 25:43432
energy straggling in thin tissue-like gases, 23:11752 (BNWL-481-2, pp 155-200)
energy versus magnetic field strength x orbit radius at 10^{5} to 1.2 x 10^{6} G.cm for, table of, 22:20364 (CEA-R-3383)
energy—ionization relation for relativistic, in emulsions, exact method for measuring, 24:12923
energy-change process in interplanetary space of solar flare-associated, acceleration and deceleration, (E/T), 25:33002
energy-exchange rate with electrons in solar-wind, collisional, (T), 22:21829
energy-loss characteristics in gases and biological materials, (T), 25:49957 (AERE-M-2346)
energy-loss distributions in silicon radiation detectors at 45 to 730 MeV, (E), 21:278 (UCRL-16931)
energy-loss distributions in thin carbon and gold foils at 0.3 to 3 MeV, (E), 22:32513(R) (ANU-P-400)
energy-loss functions for, in planetary gases, (T), 22:13243
energy-loss straggling distribution in silicon surface-barrier detector at 5 to 42 MeV, 23:9715
engineering significance of, in studies of materials and processes, 21:26036
entropy of relativistic gas of, (T), 23:48600
escape from polar ionosphere to magnetotail, (T), 23:1277
exchange in $\pi^+ + p \rightarrow \omega^0 + N^{*++}$ interactions below 0.4 GeV/c, (T), 23:32730
excitation by, cross sections for Schumann—Runge, (T), 21:3665
excitation of hydrogen in HII regions by, cross sections for, (T), 24:19618
excitation of interstellar CN molecules by, (T), 23:41827
exposure of small animals to, design of equipment for, 21:10913
flare-position effect of, on Earth's particle flux, solar, (T), 25:27355
flow into and from the magnetotail, (T), 22:41471
flux and energy spectra above 57 MeV in inner radiation belt during solar minimum, (E), 23:39377
flux at 100 to 400 km at L approximately 3.7, correlation with vlf emissions, Kerguelen Islands-launched rocket study of, (E/T), 25:7237
flux at 200 to 500 km in atmosphere, (E), 24:42557
flux at 4.5 GV cutoff rigidity over Palestine, Texas, (E), 23:25180
flux distributions in radiation belts, 21:9434
flux during solar event of Feb. 5—12, 1965, Mariner IV and Injun IV observations of, 21:43693 (N-67-26441)
flux in atmosphere during PCA of May 23—30, 1967, (E), 23:22987
flux in inner belt on Dec. 19, 1961, (E), 22:34374
flux in inner radiation belt, comparison of measurements during 1965 and 1961 to 1962 of, 21:13437
flux in interplanetary space, (E), 25:9257
flux in magnetosphere at 5 to 20 R/sub E/, (E), 23:3337 (N-68-28765)
flux in magnetosphere correlated with magnetic bays, 21:37288
flux in magnetosphere during bay event of April 18, 1965, (E), 23:25223
flux in magnetosphere, (E), 23:27444(R) (N-69-14773)
flux in magnetosphere, (E), 22:34357(R) (AD-663234)
flux in magnetosphere, drift periodic echoes in solar, (E), 25:11801
flux in outer magnetosphere of energetic, anisotropic, (E), 23:23018
flux in outer radiation belt, rapid increases of, (E), 22:31711
flux in plasmapause vicinity, (T), 24:32754
flux in radiation belts, neutron source decay solar-cycle modulation in, (T), 25:27624
flux in ring current, (E), 22:38894 (N-68-19786)
flux in tail of magnetosphere, 21:46219 (N-67-18713)
flux in topside ionosphere, upward, (E), 23:6935
flux increase in magnetosphere, spectra and time histories of rapid low-energy, (E), 22:41442 (N-68-18191)
flux intensities in magnetosphere, (T), 24:32756
flux mass for trapped, above 4 MeV, 21:9468
flux measurement parallel to geomagnetic field lines in auroral ionosphere, 25:14125
flux measurements at 4000 km of 50-eV to 100-keV, (E), 23:10528
flux measurements during space flight, use of, to evaluate shielding calculations, 21:30805(R) (AD-638920)
flux measurements in exosphere by Elektron satellites, 25:17022
flux measurements of high-energy, using (p,3pn) reaction with aluminum-27, 22:29818
flux measurements of, spallation of mercury to terbium-149 for, 21:28216 (UCRL-17505)
flux of >25-MeV solar-flare, measurement by satellite-borne radiometric equipment on May 24, 1967, 24:39794
flux of 1 to 5-MeV solar, measurement by Zond-3, Venera-2, and Venera-3, (E), 22:11276
flux of 1.5- to 50-MeV solar, measured by Zond-4 and Zond-5, (E), 25:30164
flux of 100-eV to 50-keV, in the magnetosphere, (T), 24:17747 (N-69-40039)
flux of 5 x 10^{19} eV cosmic, evidence for existence of, (E), 22:41385
flux of 5.2- to 81.7-MeV solar and primary cosmic, (E), 25:30161
flux of cosmic, at Texas and Canada at solar minimum, 23:8487
flux of extragalactic, (T), 23:27397 (N-69-18033)
flux of high-energy geomagnetically trapped, long-term variations of, (E/T), 25:16893 (N-70-40998)
flux of low-energy solar, (T), 24:23665
flux of low-energy, near Moon, Dec. 16, 1966, flare- and Forbush decrease-associated, (E), 25:11669
flux of low-energy, observations at 6.6 R/sub E/ of, (E/T), 25:7232
flux of low-energy, precipitated in auroral zone, (E), 24:15193
flux of primary cosmic, at 10^{10} to 10^{14} eV, proton new interaction process from, (E), 24:8561 (N-69-37606)
flux of primary cosmic, at 10^{10} to 10^{14} eV, satellite measurement of, 24:30445
flux of primary cosmic, at Fort Churchill in 1967, (E), 23:10463
flux of solar and cosmic, spark-chamber spectrometry of, (E), 25:49635 (AD-716843)
flux of solar, at synchronous altitude during 1967, (E), 23:44088 (AD-679977)
flux of solar, height-dependent anisotropy of Sept. 29, 1968, (E), 25:24935
flux of solar, in radiation belts during magnetic storm, 24:42581
flux of solar, in subpolar stratosphere during solar activity minimum, (E), 24:12588
flux of solar, over polar caps on March 24, 1966, (E), 23:30416
flux of solar-wind-directed, near bow shock on March 12, 1968, (E/T), 25:7226
flux of trapped at low altitudes, (T), 21:18541
flux of trapped, spacecraft measurements of, 21:43894(R) (N-67-23326)
flux of, during simulated mission to Mars, Monte Carlo estimation of, 21:6514
flux on subsolar side of magnetosphere, correlation of magnetic bays with, 21:24976 (N-67-11371)
flux profiles of near-equatorial 20 to 50, and greater than 100 MeV trapped, at L = 1.15 to 1.21 in 1967, (E), 25:55957
flux, determination of, in body of astronauts during flights of Gemini 4 and 5, 21:16338 (N-66-26692)
flux-to-dose conversion factors for, estimation of, for protection against high energy radiation, 24:27586 (CONF-690540-, pp 586-95)
fluxes in inner radiation belt, nuclear emulsion study of, 22:40365
fluxes of 0.31- to 10-MeV, in magnetosphere and magnetotail, (E), 22:13343
fluxes of 1 to 13 keV, relation to auroral luminosity patterns over northern Scandinavia, (E), 25:27581
form factor as function of vector-boson resonances, electric, 22:29663
form factor at large momentum transfer, electromagnetic, 21:33661
form factor correlation with high-energy p + p scattering, electromagnetic, 23:18927
form factor effects on $\pi^- + p \rightarrow e^+ + e^- + n$ interactions, electromagnetic, (E/T), 23:51829 (JINR-P2-4561)
form factor effects on ratios of $e^- + p \rightarrow e^- + p$ and $e^+ + p \rightarrow e^+ + p$ interaction cross sections, Veneziano model for, (T), 25:19942
form factor from backward $e + p \rightarrow e + p$ interactions at 70 to 280 MeV, magnetic, (E), 25:43528 (LAL-1250)
form factor from backward elastic e + p interactions, electromagnetic, 25:45641
form factor from $e + d \rightarrow e + d$ interactions at low momentum transfers, deuteron-to-proton ratio for electric, (E), 25:5247 (AD-710385)
form factor from e + d quasi-elastic interactions at high energies, counter telescope, spectrometer, Cherenkov, and shower counter study of magnetic, (E), 22:29614 (DESY-68/14)
form factor from e + p elastic interactions, electromagnetic, (E), 23:42532
form factor from $e^- + p \rightarrow e^- + p$ interactions at high energies, (E), 23:49032
form factor from elastic e + p interactions at $q^2 = 75$ f^{-2}, charge, (E), 21:31515 (DESY-67/18)
form factor from Regge cut model of p + p interaction, electromagnetic, 22:50410
form factor in p + p and π + p inelastic interactions, electromagnetic, (T), 25:30977
form factor in time-like region, inversion formula for calculating, 22:22358
form factor of three-quark system of, harmonic oscillator states for, (T), 23:15189
form factor of, asymptotic behavior of electromagnetic, 24:8585
form factor of, dipole magnetic, 25:33603
form factor of, $e + d \rightarrow e + d$ interactions at low momentum transfers for neutron-to-proton ratio for electric, (E), 25:12070
form factor of, effect on quasi-potential of e + p interactions, 22:9542
form factor of, effective charge distribution for e + p interactions at small momentum transfers for electric, (T), 23:49076
form factor of, electric, 22:29657
form factor of, electromagnetic, (E), 23:23330
form factor of, extrapolation into timelike region for, (T), 25:1449
form factor of, high-momentum transfer behavior of electromagnetic, 21:18952
form factor of, local relativistic quantum field theory for asymptotic behavior of elastic, (T), 25:43587
form factor of, parton model for relation of structure function of deep inelastic e + p interactions near threshold for elastic electromagnetic, 24:12991

form factor of, perturbation theory for Goldstone symmetry for electromagnetic-charge, (T), 25:41040
form factor of, phenomenological analysis of infinite resonance model for electromagnetic, 25:12153
form factor of, quark model for dipole dependence of electromagnetic, (T), 25:40995
form factor of, relation between $p + p \rightarrow p + p^*$ and $p + p \rightarrow p + p$ interactions from scaling for hadronic, (T), 25:53211
form factor of, relativistic, 25:14711
form factor of, relativistic description of magnetic, 24:47406
form factor of, semiclassical model for electromagnetic, 24:24229
form factor of, theory of electromagnetic, 22:24595
form factor proportionality with differential cross sections for $p + p \rightarrow p + p$ interactions at high energies and large angles, linearized unitarity relation for fourth power of, 23:51964
form factor relation with diffraction peak widths of $p + p \rightarrow p + p$ interactions at high energies, Regge cut dominance and Fubini sum rule for electromagnetic, 23:51896
form factors for elastic $e + p$ interactions, 22:3326
form factors for $\gamma\ p\ \Delta^+(1236)$ vertex, (E), 24:30432
form factors for, equality of electric and magnetic, (T), 21:33654
form factors for, magnetic, (E), 22:13641
form factors for, model for hadrons as extended objects for elastic and inelastic electromagnetic, (T), 25:53151
form factors for, review of, (E/T), 23:49156
form factors for, spectrometer study of cross sections for $e + p \rightarrow e + p$ interactions at high energies for electromagnetic, (E), 25:1366 (DESY-70/42)
form factors for, spectrometer study of cross sections for $e + p \rightarrow e + p$ interactions at 1.14 to 6.56 GeV for electromagnetic, (E), 25:1373
form factors for, SU(3) x SU(3) symmetry for, 22:9653
form factors for, theory for Hofstadter—Wilson formula for electromagnetic, 22:32087
form factors from analysis of $e + p$ cross-section data, 24:47396 (JINR-P1-5178)
form factors from anti $p + p \rightarrow e^+ + e^-$ interactions at 1.50 and 2.50 GeV/c, spark chamber study of electric and magnetic, (E), 22:15677
form factors from data on $e + p \rightarrow e + p$ and $\mu + p \rightarrow \mu + p$ interactions, electromagnetic, (T), 25:50090 (JINR-P2-5901)
form factors from $e + d \rightarrow e + d$ interactions at low momentum transfers, neutron-to-proton ratio for electric, (E), 25:5247 (AD-710385)
form factors from $e + p$ interactions, (T), 25:27991
form factors from $e + p$ interactions, electric and magnetic, (E), 23:8724
form factors from $e + p$ scattering at high energies, electromagnetic, (T), 22:50328
form factors from $e^+ + e^- \rightarrow p$ + anti p interactions, scaling law for, 25:59361
form factors from elastic $e + p$ interactions, electromagnetic, (E), 25:30786
form factors from magnetic spectrometer and scintillation counter study of angular distributions in $e + p \rightarrow e + p$ interactions at 1.0 to 3.75 $(GeV/c)^2$, scaling in ratio of electric to magnetic, (E), 24:18065
form factors from $p + p$ interactions at high energies, magnetic and vector-meson—nucleon, 23:23503
form factors in $e + p$ interactions, bremsstrahlung model for relation of differential cross sections for $p + p \rightarrow p + p$ interactions with electromagnetic, 24:52145
form factors of, 24:15511
form factors of, 24:24284
form factors of, asymptotic behavior in relativistic quantum field theory for electromagnetic, 24:30482
form factors of, depression in charge density from dipole fit deviations of electromagnetic, 22:48261
form factors of, dipole distributions of charge and magnetization from dipole fit of electromagnetic, 24:24292
form factors of, $e + d \rightarrow e + d$ interactions at low momentum transfers for deuteron-to-proton ratio for electric, (E), 25:12070
form factors of, electromagnetic, 22:46362
form factors of, electromagnetic, 23:10784
form factors of, electromagnetic, 22:11626
form factors of, field theoretical model of, 23:25656
form factors of, from $e + p \rightarrow e + p$ interactions, 21:29460
form factors of, from $\mu + p \rightarrow \mu + p$ interactions, 21:29460
form factors of, model for electronmagnetic, 24:18122
form factors of, model with linearly rising Regge trajectories for electromagnetic, 24:12971
form factors of, noncompact group SU(2,2) for electromagnetic, 24:12968 (NYO-3829-40)
form factors of, phenomenological model for electromagnetic, 24:28509
form factors of, review of experiments on electromagnetic, 21:31561
form factors of, theory and review of, 23:10782
form factors of, three-pole formula for electromagnetic, (T), 22:22366
geomagnetic cutoff for low-energy solar, (E), 22:13338
geomagnetic cutoff of cosmic, loop-cone phenomenon of main-cone directional, (E), 25:7196
geomagnetic cutoff rigidity of cosmic, in model magnetosphere, daily variation of, (T), 23:44210
geomagnetic cutoffs for solar, local-time dependence of, (E), 24:10427
gravitational forces between, (T), 21:41726
gravitational moment of, (E), 23:16931
gravitational moment of, measurement of NMR frequencies for, 23:32734
gyromagnetic coefficient of, design of apparatus for measuring, 23:38316
gyromagnetic ratio relative to electron, measurement in hydrogen atom, 24:19734
hazards from exposure of astronauts to solar flare, during moon flight, 23:6473
hazards of solar-flare, to personnel of supersonic aircraft, 24:23201
hazards of, in manned space missions, 22:6919
hazards to man during space flight, statistical predictions of, 21:30816
heating by fast hydromagnetic waves in neutral sheet, stochastic, (T), 23:30418
heating in solar wind beyond 0.1 AU, (E), 23:30265
heating of solar wind, in colliding streams, (E), 25:16698
heating of solar-wind, (T), 23:36351
hydrogen-gas clustering on, cold, (E), 23:44137
hydromagnetic-wave interaction with trapped, particle distribution and solution to steady-state equation for, (T), 22:48022
hyperfine coupling parameters of, in pyrazine, pyridine, and pyrimidine radical anions, ESR spectra of, 21:30402 (UCRL-17330, pp 1-78)
identification using semiconductor detectors, 21:36348 (UCRL-17555)
implantation in silicon at 50 keV, effects on impurity diffusion, 25:19824
induction of brain lesions by, in cats and goats, standardization of shape and size of, 21:14720
induction of injuries by, in cells of various tissues, electron microscope studies of, 21:14714
induction of polar cap events by energetic solar, detection by vlf propagation, (E), 23:10518
initiation of near-vertical EAS, theoretical analysis, 21:639
injection into magnetosphere, asymmetric, (T), 22:17517
injection into magnetosphere, mechanism responsible for formation of ring current, (T), 25:27627
injection into radiation belts in solar neutron decay, 24:17809
injection into trapped radiation zones during magnetic storms, (T), 24:19804
injection of low-energy solar, into magnetosphere on May 26, 1967, (E), 23:30429
injection of ring-current, into outer radiation zone, (E), 24:10419(R) (AD-695399)
injection of ring-current, into outer radiation zone during magnetic storms, (E), 24:10421 (N-69-39675)
injection spectra for solar-flare, (E), 23:10414
intensity at 300 to 500 km in auroral zone, Geiger—Mueller observations during Feb. 25, 1969 solar event, (E), 25:27572
intensity at synchronous altitude, temporal and spectral variations of solar, (E/T), 25:27541
intensity contours in outer radiation belts, omnidirectional, 24:17811
intensity distribution of cosmic, near 100 km, 22:38836
intensity during Apr. 17, 1965 magnetic storm, time-dependent variations of low-energy trapped, (E), 25:49797 (N-71-22496)
intensity during Feb. 25, 1969 solar flare, ESRO-II observations of low-energy, (E), 25:27471
intensity during February 5, 1965 event, relation of magnetosphere to low-energy solar, 21:43690 (N-67-21459)
intensity during February 5, 1965 event, solar, 21:43689 (N-67-21457)
intensity enhancements of interplanetary shock-associated 300 keV, 1967—1968, (E), 25:7223
intensity fluxes near ionospheric equator, late-evening soft-, (E), 25:16959
intensity gradients during minimum solar modulation of cosmic, heliocentric, (E), 21:16840
intensity gradients of cosmic, radial, (E), 22:5154
intensity in auroral substorms, (E), 22:22056
intensity in auroral, (T), 22:52637
intensity in deep magnetosphere, effect of low-energy solar, (E/T), 25:27541
intensity in early-evening proton aurora, solar-wind origin of primary, (E/T), 25:27618
intensity in early-morning pulsating aurorae, energetic, Dec. 18, 1968, (E), 25:16950
intensity in geomagnetic tail, (E), 22:22048
intensity in inner radiation belt, Explorer observations of, 21:13436
intensity in inner radiation zone before and after Starfish burst, 21:13430 (N-66-37210)
intensity in magnetotail and magnetosheath after July 7, 1966 solar flare, (E), 23:16709 (N-68-32908)
intensity in magnetotail at 60 R/sub E/, observations by Explorer 35 of nonsolar, 25:7302
intensity in morning sector of auroral zone during slowly varying cosmic-noise absorption, (E), 25:58891
intensity in outer radiation belt, increases in ring-current, 24:17810
intensity in outer radiation belt, measurements in equatorial region of, 21:25031
intensity in outer radiation belt, relation of storm-time extraterrestrial ring current to, 21:41894(R) (AD-648909)
intensity in radiation belts, electron contamination of, 21:20856
intensity in solar wind ahead of shock waves, (T), 24:51340 (N-70-29962)
intensity in solar wind, (T), 25:52497
intensity in upper atmosphere, measurement of 1- to 20-MeV, 25:17032
intensity increase in Feb. 25-Mar. 5, 1969 of solar cosmic-ray, (E), 25:27470
intensity measurements by alpha counting of irradiated gold foils, (E), 22:30020
intensity measurements of 0.25- to 1.65-MeV, in radiation belt, (E), 25:58890
intensity of >360-MeV and >30-MeV solar, directional measurements aboard HEOS-I during Feb. 25, 1969 solar event, (E), 25:27560
intensity of 85-MeV cosmic, (E), 21:46183 (N-67-23905)
intensity of atmospheric secondary and re-entrant albedo cosmic, 21:41835
intensity of auroral-zone, during magnetic disturbance, (E), 22:41483
intensity of energetic solar, in polar caps following Jan. 24, 1969 event, asymmetric access effects on, (E), 25:45359 (AD-718376)
intensity of interplanetary solar, Explorer 33 observations of shock-wave effects on, 21:13307
intensity of low-energy galactic cosmic, balloon measurements of, 21:41834
intensity of solar, from flares, (T), 21:18365(R) (N-67-13210)
intensity of solar, Mariner 4 and Injun 4 observations of, 21:43843
intensity of, in iron meteorites, 21:12534
intensity over northern polar cap of 100 keV to 6 MeV, following Feb. 25, 1969 solar event, (E), 25:27573
intensity profiles from February 15, 1965 solar flare, longitude, 24:17713
intensity profiles in exosphere subsequent to flare events of July 7 and 9, 1966, (E), 23:22824
intensity profiles in plasmapause, satellite measurement of, 24:42583
intensity profiles of solar 1 MeV, 33 MeV, and 114 MeV, at 2000 to 3000 km, rigidity-dependent latitude, (E), 25:11797
intensity structure and pitch-angle distributions of solar, at low altitudes, (E), 23:22941 (AD-673475)
intensity variation in inner radiation belts during solar cycles, (E), 24:42600
intensity variation of primary cosmic above 48 MeV, (E), 21:31272
intensity variations at 1 to 5 MeV of cosmic, measured by Zond-3 and Venus-2, (E), 21:35046(T) (N-67-18958)
intensity variations during IQSY, polar observations of solar, 21:7077 (AD-636675)
intensity variations for solar flare of February 5, 1965, relation of magnetosphere to low-energy, 21:43845
intensity variations in outer radiation belt, 21:5169
intensity variations in radiation zones during magnetic storms, 21:37297
intensity variations in South Atlantic anomaly, (T), 22:17494
intensity variations in stratosphere of cosmic, (E), 22:11274
intensity variations of cosmic, in geomagnetic equator region, (E), 21:31270
intensity variations of cosmic, relation of distance from sun to, (E), 21:20798
intensity variations of cosmic, solar effects on, 23:48768
intensity variations of primary cosmic, (E), 21:31267
intensity variations of solar, at synchronous orbit, effects of sudden commencements on, (E), 24:17755
intensity variations of solar, effects of sudden commencements on, (E), 24:32686 (AD-698748)
intensity variations of, in aurorae, rapid, (E), 22:15417
intensity, spectra, and angular distribution in aurora, rocket measurement of, 22:1064
interacions $p + p \rightarrow d + \pi^+$ at 3.4 to 12.3 GeV/c, forward differential cross sections for, (E), 25:30731
interaction $e + p \rightarrow e + p$ at 380 and 980 MeV at 180°, cross section ratio of $e^+ + p \rightarrow e^+ + p$ interactions to, (E), 25:38633 (LAL-1251)
interaction $e + p$, magnetic spectrometer and scintillation counter study of cross sections for, (E), 24:8554 (DESY-69/34)
interaction in nuclear emulsion at 10 GeV, track counting technique for determining total cross section for, 23:2647
interaction $K^- + p \rightarrow K^{*0} + n \rightarrow K^- + p$ for fit to backward elastic scattering, 25:33734
interaction of cosmic, with radiation in expanding Universe, (T), 24:12619
interaction of solar energetic, with bow shock and magnetopause, (E), 25:27538
interaction $\pi^- + p \rightarrow$ eta + n differential cross section from Veneziano amplitude for, 25:30884
interaction $\pi^- + p \rightarrow n$ + eta at 804 MeV/c, branching ratio eta $\rightarrow$ neutrals/eta $\rightarrow$ total from, (E), 25:38675
interaction tracks in mica and extraterrestrial materials, (E), 25:55669 (N-71-26344)
interactions anti $p + p$ at 2 to 3 GeV/c, review of quasi-two-body final states and multiple particle production in, 22:32121
interactions $K^- + p \rightarrow$ anti $K^0 + n$, $\Delta S = -\Delta Q$ parameter for anti K^0 leptonic decays from, 22:44318
interactions $\tau + p \rightarrow \tau + p$, field exchange for, (T), 25:36571
interactions above 1 TeV, review of, (E), 25:5274
interactions anti $d + p \rightarrow$ anti $N + X$, differential and total cross sections for heavy quasinuclear meson resonance production in, (T), 25:33772
interactions anti $d + p$ at 13.3 GeV/c, CPT invariance test from ratio of total cross sections of anti $p + d$ interactions at 6.65 GeV/c to total cross sections of, (E), 25:59275
interactions anti $d + p$ at 13.3 GeV/c, test of CPT invariance from total cross sections for, 25:19907
interactions anti $K + p$ at high energies and small momentum transfers, isotopic structure of N^* radiative decays from, (T), 24:6681
interactions anti $K + p$, current-algebra calculation of Λ to Σ ratio in isospin-1 s-wave, 22:9604
interactions anti $K + p$, generalized interference model for resonance interpretation of phase shift analysis for, (T), 25:7671
interactions anti $K^0 + p \rightarrow \Lambda + \pi$ and anti $K^0 + p \rightarrow \Sigma + \pi$ in quark model, Λ to Σ ratio in, 22:17967
interactions anti $K^0 + p \rightarrow \Lambda + \pi^+$ and anti $K^0 + p \rightarrow \Sigma^0 + \pi^+$ quark model for Λ to Σ ratio in isospin-1 s-wave, (T), 21:27374
interactions anti $K^0 + p \rightarrow \Lambda + \pi^+$ at 0 to 900 MeV/c, mixing parameters from, (E), 25:38666
interactions anti $K^0 + p \rightarrow \Lambda + \pi^+$, current algebra calculation of Λ/Σ ratio in $I = 1$ state for s-wave, (T), 22:7504 (NP-17150)

interactions anti $K^0 + p \to \Sigma^0 (\Sigma^+) + \pi^+ (\pi^0)$, quark model for Λ/Σ ratio in, 22:13753 (LPTHE-TH-226)

interactions anti $K^0 + p \to \Sigma^0(\Sigma^+) + \pi^+(\pi^0)$, current algebra calculation of Λ/Σ ratio in $I = 1$ state for s-wave, (T), 22:7504 (NP-17150)

interactions anti $K^0 + p$, j-plane singularities in superconvergent sum rules for, 23:27804

interactions anti $n + p$ at 0.5 to 2.5 GeV/c, total and elastic cross sections for, (E), 24:3511

interactions anti $n + p$ at 6.65 GeV/c, total cross sections for, 25:19907

interactions anti $n + p$ at high energies, effective Lagrangians for, 23:15077

interactions anti $n + p$ at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)

interactions anti $n + p$, quark additive model for sum rules for meson (π) multiple production from, 23:51928

interactions anti $n + p$, total cross sections for, (E), 25:59275

interactions anti $\nu + p \to e^+$ + hadrons, structure functions and cross sections for deep-inelastic, (T), 24:37727

interactions anti $\nu + p \to e^+ + n$ at 2 GeV, electromagnetic form factors for energy functions of total cross sections and angular functions of differential cross sections for, (T), 24:18125

interactions anti $\nu + p \to e^+ + n$, instrumentation and feasibility for cross section measurements of, (E), 23:34523(R) (SRO-474-1)

interactions anti $\nu + p \to e^+ + n$, test of Mahmoud—Konopinski scheme in, (T), 25:40943

interactions anti $\nu + p \to e^+ + \pi^0 + p$, generalized Ward—Takahashi identities and current algebra for, 22:13681

interactions anti $\nu + p \to$ eta + $N^{**} + \mu^+$, cross section for, (T), 23:3687

interactions anti $\nu + p \to$ hyperon + l^+, polarization effects in, 21:40193

interactions anti $\nu + p \to l^+ + n$ at high energies, cross sections for, 21:15309

interactions anti $\nu + p \to l^+ + \pi^0 + n$, current algebra for slow meson (π) production from, 21:25267 (JINR-P2-3197)

interactions anti $\nu + p \to l^+ + \pi^- + p$, current algebra for slow meson (π) production from, 21:25267 (JINR-P2-3197)

interactions anti $\nu + p \to \Lambda + l^+$ at high energies, polarization effects in, 22:1416 (IAE-1241)

interactions anti $\nu + p \to \mu^+$ + hadrons at high energies, scaling laws in Veneziano model for, (T), 25:12166

interactions anti $\nu + p \to \mu^+$ + hadrons at high energies, chiral SU(3) x SU(3) equal-time commutation relation to light cone for amplitude of forward spin-averaged, 24:3590

interactions anti $\nu + p \to \mu^+ + \Lambda^0(\Sigma^0)$, cross sections for, 22:7484

interactions anti $\nu + p \to \mu^+ + n$ at multi-GeV energies in spark chamber, 21:37670 (NEVIS-158)

interactions anti $\nu + p \to \mu^+ + n$, unitarity bound on transverse polarization in, (T), 24:45479

interactions anti $\nu + p \to \mu^+ + n(\Lambda)$ at high energies in nuclei, W effects in, (T), 22:29669

interactions anti $\nu + p \to n$ + anti l, model for total and differential cross sections for, (T), 25:40954

interactions anti $\nu + p \to n + e^+$, coincidence yields from, (E), 25:53518 (SRO-474-2)

interactions anti $\nu + p \to n + e^+$, development of large neutrino detectors based on, 23:41060

interactions anti $\nu + p \to n + e^+$, electromagnetic corrections for, (T), 23:5587

interactions anti $\nu + p \to n + l^+$ at high energies, polarization effects in, 22:1416 (IAE-1241)

interactions anti $\nu + p \to n + l^+$, weak boson theory for, 23:5581

interactions anti $\nu + p \to n + \mu^+$ at high energies, weak boson theory for form factor effects on, (T), 25:36460

interactions anti $\nu + p \to n + \mu^+$, electromagnetic corrections for, (T), 23:5587

interactions anti $\nu + p \to n + \mu^+$, pseudoscalar coupling constant from absorption cross section for, 22:34943

interactions anti $\nu + p \to \Sigma^0 + l^+$ at high energies, polarization effects in, 22:1416 (IAE-1241)

interactions anti $\nu + p \to W + \mu + p$ at 3 to 300 GeV, total cross sections for, (T), 24:40333

interactions anti $\nu + p \to Y + l^+$ at high energies, polarization effects in, (T), 22:1416 (IAE-1241)

interactions anti $\nu + p$ at low energies in proposed 25-foot bubble chamber, tests of selection rules for hyperon production in, 24:51908 (TID-25473(Vol.2), pp 159-63)

interactions anti $\nu + p$ in parton model, structure function for deep inelastic, 24:13001

interactions anti $\nu + p$, asymptotic equality with $\nu + p$ interactions for cross sections for multiple hadron production from, (T), 22:17910 (JINR-P2-3647)

interactions anti $\nu + p$, asymptotic sum rules at infinite momentum for inelastic, 23:25590

interactions anti $\nu + p$, lectures on parton model for structure functions, sum rules, and asymptotic behavior for positron production in, (T), 25:47778

interactions anti $\nu + p$, possibility of W strong interactions in, (T), 22:22377

interactions anti ν/sub e/ + $p \to n + e^+$, test of lepton quantum number from, 22:9558 (JINR-P2-3601)

interactions anti ν/sub e/ + p, cross section for, (T), 22:37389

interactions anti ν/sub μ/ + $p \to \mu^+ + \Lambda$ in heavy-liquid bubble chamber, cross sections for, (E), 21:33591 (CERN-67-12)

interactions anti ν/sub μ/ + $p \to \mu^+ + n$ in heavy-liquid bubble chamber, nucleon axial-vector form factor and cross sections from, 21:33591 (CERN-67-12)

interactions anti ν/sub μ/ + $p \to \mu^+ + \Sigma^0$ in heavy-liquid bubble chamber, cross sections for, (E), 21:33591 (CERN-67-12)

interactions anti ν/sub μ/ + $p \to n + \mu^+$, spin dependence of, (T), 22:11635

interactions anti $\Omega^+ + p \to K^+ + K^+ + K^0$, anti Ω^+ parity determination from, (T), 24:40421

interactions anti $p + n$ at rest, tests of SU(6)/sub W/ and SU(3) predictions for annihilation, 22:22390

interactions anti $p + n$ in deuterium bubble chamber at 1.33 and 5.5 GeV/c, isotopic-spin dependence of annihilation cross sections for, (E), 24:42874

interactions anti $p + p \to 2$ anti $p + 2p$ at 7 GeV/c, upper limit for cross sections for, (E), 25:59267

interactions anti $p + p \to 2$ mesons, SU(3) x SU(3) and SU(6)/sub W/ symmetry for, 22:9662

interactions anti $p + p \to 2$ neutral vector mesons, quark model for, 23:18877 (ITF-68-36)

interactions anti $p + p \to 2\omega^0 \to 2\pi^+ + 2\pi^- + 2\pi^0$, method for study of, 25:3362

interactions anti $p + p \to 2\pi + 2\gamma$ with two 3π production in intermediate state, box diagram effects for, (T), 25:22807

interactions anti $p + p \to 2\pi(2\gamma)$, calculation of box-diagram effect with two resonances in intermediate state for, (T), 25:19986 (IFVE-STF-70-34)

interactions anti $p + p \to 2\pi(2\gamma)$, calculation of box-diagram effect with two resonances in intermediate state for, (T), 25:19986 (IFVE-STF-70-34)

interactions anti $p + p \to 2\pi^0$ at 1.00 to 2.50 GeV/c, differential cross sections for, 22:15677

interactions anti $p + p \to 2\pi^+ + 2\pi^- + 2\pi^0$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711

interactions anti $p + p \to 2\pi^+ + 2\pi^- + n\pi^0$ interactions at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, rho^0 production in, (E), 24:32962 (IS-T-358)

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$ at 1.2 GeV/c, $\pi\pi$ scattering effects in, (T), 22:39372 (CERN-68-7(Vol.1), pp 595-8)

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$ at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, resonance production and angular distributions for, (E), 24:32962 (IS-T-358)

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$ at 2.5 GeV/c, associated production of rho, f, and ω in, (E), 25:45660

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$ at 3.6 GeV/c in hydrogen bubble chamber, heavy resonance and rho, f^0, ω^0 and g production in, (E), 25:25299 (NP-18730)

interactions anti $p + p \to 2\pi^- + 2\pi^+ + \pi^0$ at 675 and 1100 MeV/c in hydrogen bubble chamber, resonance production and rho—ω interference in, (E), 25:1394 (CONF-700806-49)

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$, isosinglet resonance decay in, (T), 22:9581 (IS-T-210)

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$, phase-space distributions for 4π decay of isosinglet resonance in, 22:46410

interactions anti $p + p \to 2\pi^+ + 2\pi^- + \pi^0$, spin, symmetry, and polarization in isosinglet resonance four pion decay in, (T), 22:37134

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at 1.2 to 5.7 GeV/c, predictions of multi-Regge models for, 24:49479

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at 1.26 to 1.65 GeV/c, rho—ω interference in, (E), 24:20072

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, resonance production and angular distributions for, (E), 24:32962 (IS-T-358)

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at 2.5 GeV/c, production of rho, f, and $S^*(1070)$ in, (E), 25:59271

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at 3.6 GeV/c in hydrogen bubble chamber, rho, f^0, ω^0, g(1660), and heavy resonance production in, (E), 25:25299 (NP-18730)

interactions anti $p + p \to 2\pi^- + 2\pi^+$ at high energies, multi-Regge model for, (T), 23:3725

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at rest, evidence for narrow $\pi^+\pi^-(530)$ resonance in, (E), 24:8563

interactions anti $p + p \to 2\pi^+ + 2\pi^-$ at rest, generalized Veneziano model for amplitude of, 23:51931

interactions anti $p + p \to 2\pi^+ + 2\pi^-$, rho^0 and A_1 production in, (T), 23:49135

interactions anti $p + p \to$ 2rho^0, intermediate vector meson model for, 21:9782

interactions anti $p + p \to 3\gamma$, test of linearity of quantum electrodynamics equations from cross section of, (T), 22:48360

interactions anti $p + p \to 3\pi$, numerical study of relativistic effects on angular distribution from, 21:23332

interactions anti $p + p \to 3\pi$, review of S capture for protonium annihilation in, (T), 23:49135

interactions anti $p + p \to 3\pi^0$ at 1.00 to 2.50 GeV/c, upper limits for cross sections for, (E), 22:15677

interactions anti $p + p \to 3\pi^0$ at rest, optical spark chamber study of epsilon (824), f(1249), and $\pi\pi(775)$ production and rate for, (E), 25:45657 (NEVIS-186)

interactions anti $p + p \to 3\pi^0$, Veneziano-type parametrization of, 23:46701

interactions anti $p + p \to 3\pi^+ + 3\pi^- + (\pi^0)$ at 3.6 GeV/c, total cross sections, angular distributions, and resonance production in, (E), 24:49318

interactions anti $p + p \to 3\pi^+ + 3\pi^- + m\pi^0$, cross sections and angular and momentum distributions for, (E), 25:3263

interactions anti $p + p \to 3\pi^+ + 3\pi^- + n + \pi^0$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 1.2 and 2.5 GeV/c, $\pi\pi$ scattering effects in, (T), 22:39372 (CERN-68-7(Vol.1), pp 595-8)

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 1.2 GeV/c, production of delta(975) and D(1310) in, (E), 23:14963

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 2.5 GeV/c, fits to $\pi\pi$ effective-mass distributions for, (E/T), 23:30701

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 3.6 GeV/c in bubble chamber, heavy resonance production in, (E), 24:51922 (NP-18466)

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 5.7 GeV/c in bubble chamber, production of rho, ω, A_1, and A_2 in, (E), 22:22305

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 5.7 GeV/c, evidence for 4π enhancement at 1.7 GeV/c^2 in, (E), 25:40875

interactions anti $p + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 6.94 GeV/c in hydrogen bubble chamber, heavy boson production in, (E), 24:37623

interactions anti $p + p \to 3\pi^+ + 3\pi^- (+\pi^0)$ at 3.6 GeV/c, angular correlations in, (E), 25:30733

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 1.2 GeV/c, interference effects in multiperipheral model for meson (rho) production in, 23:44655

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 2.5 GeV/c, meson resonance production in, (E), 22:39373 (CERN-68-7(Vol.2), pp 281-302)

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 3.6 GeV/c in bubble chamber, heavy resonance production in, (E), 24:51922 (NP-18466)

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)

interactions anti $p + p \to 3\pi^+ + 3\pi^-$ at 6.94 GeV/c in hydrogen bubble chamber, heavy boson production in, (E), 24:37623

interactions anti $p + p \to 3\pi^+ + K^- + 2\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)

interactions anti $p + p \to 4K$ with two phi production in intermediate state, box diagram effects for, (T), 25:22807

interactions anti $p + p \to 4K$, calculation of box-diagram effect with two resonances in intermediate state for, (T), 25:19986 (IFVE-STF-70-34)

interactions anti $p + p \to 4\pi$ at 1.2 GeV/c, A_2^+, A_2^-, rho^0, and f^0 production in, (E), 22:26563

interactions anti $p + p \to 4\pi$ at rest, normalization using dual six-point function for, (T), 25:5362

interactions anti $p + p \to 4\pi$, isobaric five-point amplitude for, 25:59470

interactions anti $p + p \to 4\pi^+ + 4\pi^- + \pi^0$ at 5.7 GeV/c, angular correlations and distributions in, (E), 23:14962

interactions anti $p + p \to 4\pi^+ + 4\pi^-$ at 5.7 GeV/c, angular correlations and distributions in, (E), 23:14962

interactions anti $p + p \to 5\pi$, reaction mechanism and amplitudes for, 21:13707

interactions anti $p + p \to 6\pi^0$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711

interactions anti $p + p \to A_2 + \pi$, $A_2 \to K_1 + K$ mass spectra from, (T), 24:37763

interactions anti $p + p \to A_2 + \pi$, $A_2 \to \pi$ + rho mass spectra from, (T), 24:37763

interactions anti $p + p \to$ anti $\Delta + \Delta \to$ anti $p + \pi^- + p + \pi^+$ at high energies, Regge pole model in angular correlation theory for double resonance production in, (T), 25:50124 (IS-T-480)

interactions anti $p + p \to$ anti $\Delta^{++}(1236) + \Delta^{++}(1236)$ at 2.4 and 2.9 GeV/c, OPE model predictions for, (E/T), 24:37634

interactions anti $p + p \to$ anti $K + K + n\pi$ at 3 to 4 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:3271

interactions anti $p + p \to$ anti $K + K + \pi + \pi$, box singularity effects on, (T), 22:3398

interactions anti $p + p \to$ anti $K + K + \pi + \pi$, effects of leading Landau singularity of box graph in amplitude for, 21:42351

interactions anti $p + p \to$ anti $K^0 + K^0$ at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382

interactions anti $p + p \to$ anti l + l of polarized, nucleon form factors from, (T), 21:9746

interactions anti $p + p \to$ anti $\Lambda + \Lambda + \pi^+ + \pi^-$ at 3.6 to 7 GeV/c, production of anti $Y^* Y^*$ in, (E/T), 21:33696

interactions anti $p + p \to$ anti $\Lambda + \Lambda + \pi^+ + \pi^-$, box singularity effects on, (T), 22:3398

interactions anti $p + p \to$ anti $\Lambda + \Lambda + \pi^+ + \pi^-$, effects of leading Landau singularity of box graph in amplitude for, 21:42351

interactions anti $p + p \to$ anti $\Lambda + \Lambda$ at 2.19 GeV/c, Λ — anti Λ spin correlations in, (E), 24:12935

interactions anti $p + p \to$ anti $\Lambda + \Lambda$ at 2.5 GeV/c, in hydrogen bubble chamber, cross sections, polarizations, and spin correlations for, 21:37678

interactions anti $p + p \to$ anti $\Lambda + \Lambda$ at 5.7 GeV/c, cross sections and polarization for, (E), 24:5242

interactions anti $p + p \to$ anti $\Lambda + \Lambda$ at threshold to 7 GeV/c, O(3,1) symmetry model for differential cross sections and spin correlations for, 24:13078

interactions anti $p + p \to$ anti $\Lambda + \Sigma^0$ at 2.5 GeV/c in hydrogen bubble chamber, cross sections for, 21:37678

interactions anti p + p $\rightarrow$ anti Λ Σ^0 + anti Σ^0 Λ at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti N + N + nπ, angular distributions and cross sections for,, 22:17860
interactions anti p + p $\rightarrow$ anti n + n at 1 to 3 GeV/c, search for boson resonances in partial cross sections for, (E), 23:36831
interactions anti p + p $\rightarrow$ anti n + n at 1.8 GeV/c, differential cross sections for, (E), 25:9644
interactions anti p + p $\rightarrow$ anti n + n at 232 MeV in bubble chamber, cross sections and angular distributions for, (E), 25:59266 (SJC-P-71-1)
interactions anti p + p $\rightarrow$ anti n + n at 5 GeV/c in emulsions, preliminary results for cross section for, (E), 22:39261
interactions anti p + p $\rightarrow$ anti n + n at 5 to 9 GeV/c, magnet spark chamber study of differential and total cross sections for, (E), 22:34970
interactions anti p + p $\rightarrow$ anti n + n at 50 and 100 GeV/c at small angles, proposed experiment for optical spark chamber study of, (E), 24:51955 (TID-25473(Vol.4), pp 71-5)
interactions anti p + p $\rightarrow$ anti n + n at high energies, Veneziano model for, (T), 25:1569
interactions anti p + p $\rightarrow$ anti n + n at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions anti p + p $\rightarrow$ anti n + n at high energies, charge exchange in, (E), 21:9701
interactions anti p + p $\rightarrow$ anti n + n at high energies, one-pion exchange in charge-exchange, 21:29533
interactions anti p + p $\rightarrow$ anti n + n at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions anti p + p $\rightarrow$ anti n + n in O(3,1) symmetry, contributions of rho, rho', and A_2 exchange in, 23:32709
interactions anti p + p $\rightarrow$ anti n + n, comparison of models with conspiracy and cuts for differential cross sections of, (T), 24:13118 (ITF-69-69)
interactions anti p + p $\rightarrow$ anti n + n, comparison of models with conspiracy and cuts for differential cross sections of, (T), 24:13118 (ITF-69-69)
interactions anti p + p $\rightarrow$ anti n + n, complex momenta method with branching in j-plane for differential cross sections of, (T), 25:20017(T) (CERN-Trans-70-15)
interactions anti p + p $\rightarrow$ anti n + n, Regge pole theory for, 21:29541
interactions anti p + p $\rightarrow$ anti n + n, singular Regge pole model for, (T), 25:19995
interactions anti p + p $\rightarrow$ anti n + n, strong absorptive Regge-cut model for, (T), 25:7597
interactions anti p + p $\rightarrow$ anti n + n, use of Lorentz group in Regge pole analysis of, (T), 22:50321 (UCRL-18377)
interactions anti p + p $\rightarrow$ anti n + p + π^- + π^- + π^+ at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti n + p + π^- + π^- + π^+ at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti n + p + π^- at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti n + p + π^- at 2.7 GeV/c in hydrogen bubble chamber, charge conjugation invariance and cross sections for, (E), 23:32615
interactions anti p + p $\rightarrow$ anti N^* + N + π, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ anti N^* + N^*, Regge-pole model for pion-exchange, 22:7494
interactions anti p + p $\rightarrow$ anti N^{*--} + N^{*++} + π^0 at 5.7 GeV/c, (E), 21:7457
interactions anti p + p $\rightarrow$ anti N^{*++} + N^{*++}, OPE model for, 21:44371
interactions anti p + p $\rightarrow$ anti Ω^- + Ω^-, quark model for, 21:9781
interactions anti p + p $\rightarrow$ anti p + N + nπ, quark model for cross sections for, 23:5620
interactions anti p + p $\rightarrow$ anti p + n + π^+ + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti p + n + π^+ + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + n + π^+ at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti p + n + π^- at 2.2 GeV/c in bubble chamber, cross sections and forward production of nπ^- system in, (E), 25:43537
interactions anti p + p $\rightarrow$ anti p + p + 2π^+ + 2π^- at 5.7 GeV/c, multiperipheral model analysis of $\Delta^{--}\Delta^{++}$ production in, (E/T), 25:53009
interactions anti p + p $\rightarrow$ anti p + p + ω^0 at 5.7 GeV/c, spin alignment of ω^0 from, (E), 21:7457
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 2.2 GeV/c, OPE models for, 25:56487
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 2.2 GeV/c in bubble chamber, cross sections and Δ(1236) production in, (E), 25:43537
interactions anti p + p $\rightarrow$ anti p + p + π^0, anti p + n + π^+, and anti n + p + π^- at 3.6 GeV/c, production of N^* in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- + π^0 at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- + π^0 at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.4 and 2.9 GeV/c, Δ^{++}(1236) pair production in, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + p + π^- + π^+ at 12 GeV/c, cross sections and effective mass distributions for, (E/T), 25:53011
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:37634
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 and 2.9 GeV/c, pπ + π^- and anti π + π^- mass spectra from, (E), 24:24225
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, total cross section for, (E), 21:11735 (IS-T-127)
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, cross section for, (E), 21:18905
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.8 GeV/c in deuterium bubble chamber, production of N(1400) and anti N(1400) in, 23:8733
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.8 to 3.5 GeV/c, anti p$\pi^-\pi^+$(1400) and p$\pi^-\pi^+$(1400) enhancements in, (T), 24:40371
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 3 to 4 GeV/c, Δ^{++}(1236) and Δ^{--}(1236) pair production in, (E), 23:30704
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 3 to 7 GeV/c, production of N^{*++}anti N^{*--} in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 7 GeV/c, production of Δ^{--}(1236), Δ^{++}(1236), N$\pi\pi$(1460), and N$\pi\pi$(1712), and rho(765) in, (E), 25:59267
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.2 GeV/c, OPE models for, 25:56487
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.5 GeV/c, OPE model with absorption for Δ anti Δ production in, (E/T), 25:45661
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, N_3^*(1238) pair production from, (E), 21:44273
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^-, model for analysis of, 24:28569
interactions anti p + p $\rightarrow$ anti p + p at 0.7 to 2.16 GeV/c, Cherenkov counter, wire spark chamber, and missing-mass spectrometer study of boson resonance production and diffraction analyses of, (E), 23:44591
interactions anti p + p $\rightarrow$ anti p + p at 0.70 to 2.37 GeV/c, differential cross sections for backward, (E), 25:17373
interactions anti p + p $\rightarrow$ anti p + p at 1.12 and 1.36 GeV/c in bubble chamber, production of T(2195) in differential cross sections for backward, (E), 25:53020
interactions anti p + p $\rightarrow$ anti p + p at 10 to 80 MeV in hydrogen bubble chamber, differential cross sections for, (E), 24:24228
interactions anti p + p $\rightarrow$ anti p + p at 232 MeV in bubble chamber, cross sections and angular distributions for, (E), 25:59266 (SJC-P-71-1)
interactions anti p + p $\rightarrow$ anti p + p at 3.55 GeV/c, spark chamber study of differential cross sections for, (E), 25:9684
interactions anti p + p $\rightarrow$ anti p + p at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for elastic, 21:35259
interactions anti p + p $\rightarrow$ anti p + p at 5 GeV/c in emulsions, preliminary results for, (E), 22:39261
interactions anti p + p $\rightarrow$ anti p + p at 5.9 to 9.8 GeV/c, scintillation counter telescope and optical spark chamber study of cross sections for, (E), 22:39271 (CERN-68-7(Vol.1), pp 571-9)
interactions anti p + p $\rightarrow$ anti p + p at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions anti p + p $\rightarrow$ anti p + p at 6 and 10 GeV/c, scintillation counter and optical spark chamber study of, (E), 23:46621
interactions anti p + p $\rightarrow$ anti p + p at 6 GeV/c, Cherenkov counter study of polarization parameter for, 24:24227
interactions anti p + p $\rightarrow$ anti p + p at high energies, asymptotic behavior of diffraction slopes for, 23:51963
interactions anti p + p $\rightarrow$ anti p + p at high energies, model for diffraction, (T), 24:52132
interactions anti p + p $\rightarrow$ anti p + p at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions anti p + p $\rightarrow$ anti p + p at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions anti p + p $\rightarrow$ anti p + p at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions anti p + p $\rightarrow$ anti p + p at high energies, predictions of quark model for large-angle, 23:21096
interactions anti p + p $\rightarrow$ anti p + p at high energies, Veneziano model for total and differential cross sections and polarizations of, (T), 25:1569
interactions anti p + p $\rightarrow$ anti p + p at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions anti p + p $\rightarrow$ anti p + p at high energies, compilation of polarization data and exchange-degenerate Regge pole model for, (E/T), 25:53186
interactions anti p + p $\rightarrow$ anti p + p at high energies, unitarity condition for imaginary part of amplitude for large-angle, 22:13743
interactions anti p + p $\rightarrow$ anti p + p at high energies and fixed momentum transfer, asymptotic expansion of amplitudes for polarization in, 22:37143
interactions anti p + p $\rightarrow$ anti p + p at large angles, Veneziano model satisfying Cerulus—Martin bound for, 23:25644 (LNF-68/74)
interactions anti p + p $\rightarrow$ anti p + p at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions anti p + p $\rightarrow$ anti p + p eikonal Regge model for, (T), 25:9776
interactions anti p + p $\rightarrow$ anti p + p, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions anti p + p $\rightarrow$ anti p + p, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions anti p + p $\rightarrow$ anti p + p, diffraction model for forward peaks in, 24:37799
interactions anti p + p $\rightarrow$ anti p + p, dispersion theoretic calculation of two-π exchange effects on amplitude of forward, 22:39383
interactions anti p + p $\rightarrow$ anti p + p, helicity amplitudes in factorization quark model for, 24:37755
interactions anti p + p $\rightarrow$ anti p + p, polarization experiments for CPT invariance test in, 22:24707 (JINR-P2-3716)
interactions anti p + p $\rightarrow$ anti p + p, prediction of slope changes and corresponding nonstrange meson masses in, (T), 25:17378
interactions anti p + p $\rightarrow$ anti p + p, relation with structures in p + p $\rightarrow$ p + p interactions on s, t, u plane for structures in, 24:10784
interactions anti p + p $\rightarrow$ anti p + p, review of experiments for testing CPT invariance in, (T), 23:14961(T) (CERN-Trans-68-9)
interactions anti p + p $\rightarrow$ anti p + p, test of C, T, and CPT invariance from, 22:3499
interactions anti p + p $\rightarrow$ anti p + p(n) + $\pi^0(\pi^+)$ at 2.7 GeV/c in hydrogen bubble chamber, charge conjugation invariance and cross sections for, (E), 23:32615
interactions anti p + p $\rightarrow$ anti p at 1.63 to 2.20 GeV/c at large angles, production of direct-channel boson resonances and exchange of meson and nucleon states for structure in differential cross sections for, (E), 25:7546
interactions anti p + p $\rightarrow$ anti p(anti n) + p(n) at intermediate energies, direct-channel resonance effects on, (T), 25:36491
interactions anti p + p $\rightarrow$ anti Σ^0 + Λ at 2.5 GeV/c in hydrogen bubble chamber, cross sections for, 21:37678
interactions anti p + p $\rightarrow$ anti Σ^- + Λ + π^+, Σ^+ + anti Λ + π^-, and Λ + anti Λ + π^0 at 3.6 to 7 GeV/c, production of Y^* in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti Σ^+ + Σ^+ at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti Σ^- + Σ^- at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti Σ^+ + Σ^-, quark model and multiple-scattering formalism for, 22:52985
interactions anti p + p $\rightarrow$ anti Ξ^0 + Ξ^0, quark model and multiple-scattering formalism for, 22:52985
interactions anti p + p $\rightarrow$ anti Y + Y + mπ, angular distributions and cross sections for, 22:17860
interactions anti p + p $\rightarrow$ baryon + baryon + meson, quark model for cross-section relations between, 22:50375
interactions anti p + p $\rightarrow$ baryon + baryon + meson, quark model for cross-section relations between, 22:50375
interactions anti p + p $\rightarrow$ D^0 + ω at 1.1 GeV, spin and parity of D^0 from, (E), 25:33540
interactions anti p + p $\rightarrow$ Δ + anti Δ, factorization predictions as test of exotic exchange in, (T), 25:5365
interactions anti p + p $\rightarrow$ Δ + anti Δ, Regge pole model with factorization for, 24:10707
interactions anti p + p $\rightarrow$ Δ(1236) + anti Δ at 5.7 GeV/c, factorization theorem of Regge residues for spin dependence of, (T), 24:10758
interactions anti p + p $\rightarrow$ Δ^{--} + Δ^{++} at 12 GeV/c, cross sections and decay angular distributions for, (E/T), 25:53011
interactions anti p + p $\rightarrow$ Δ^{++}(1236) + anti Δ^{++}(1236) at 5.7 GeV/c, differential cross section and decay angular distributions for, (T), 22:11665
interactions anti p + p $\rightarrow$ Δ^{++}(1236) + antiΔ^{--}(1236), Regge-pole model for π exchange in, 22:26657
interactions anti p + p $\rightarrow$ Δ^{--}(1236) + Δ^{++}(1236) at 1.6 to 10 GeV/c, one-pion-exchange model for, 23:42683
interactions anti p + p $\rightarrow$ e^- + e^+ (μ^- + μ^+), time-like form factor for, 21:15332
interactions anti p + p $\rightarrow$ e^+ + e^- at 1.47 and 2.40 GeV/c, proton form factors and cross sections for, (E), 24:3512
interactions anti p + p $\rightarrow$ e^+ + e^- at 1.50 and 2.50 GeV/c, spark chamber study of proton electric and magnetic form factors from upper limits for, (E), 22:15677
interactions anti p + p $\rightarrow$ e^+ + e^-, consequences on colliding beam experiments from total cross sections for, 21:29448
interactions anti p + p $\rightarrow$ e^+ + e^-, differential and total cross sections and modulus and phase of form factors of proton electric dipole moment from, (T), 25:12224
interactions anti p + p $\rightarrow$ $e^+(\mu)$ + $e(\mu^-)$, invariance principles for cross section dependence on initial particle polarization for, (T), 25:7645
interactions anti p + p $\rightarrow$ eta + π^+ + π^- at rest, analysis of, (E), 23:8730
interactions anti p + p $\rightarrow$ eta + π^+ + π^- at rest, Veneziano-type amplitude for, (E/T), 25:53177
interactions anti p + p $\rightarrow$ γ + γ at 1.47 and 2.40 GeV/c, cross sections for, (E), 24:3512
interactions anti p + p $\rightarrow$ γ + γ at 1.50 GeV/c, differential cross section for, (E), 22:15677
interactions anti p + p $\rightarrow$ γ + γ at 2.50 GeV/c, upper limit for differential cross sections for, (E), 22:15677
interactions anti p + p $\rightarrow$ h^0 + rho^0, CP nonconservation in, 22:20236
interactions anti p + p $\rightarrow$ K + anti K + 3π at rest, (E), 21:871 (NEVIS-154)
interactions anti p + p $\rightarrow$ K + anti K + mπ at 2.5 GeV/c, Lamb statistical model for cross sections of, (E/T), 25:30866
interactions anti p + p $\rightarrow$ K + anti K + mπ at 2.7 GeV/c, cross sections for K^*(890), rho, and ω production in, (E), 24:18076
interactions anti p + p $\rightarrow$ K + anti K + nπ (n = 3,4) at 1.2 GeV/c, production of K^*(890), rho, ω, eta, and D(1280) in, (E), 22:32059
interactions anti p + p $\rightarrow$ K + anti K + nπ at 3.66 and 6.935 GeV/c, K^*(890), K^*(1400), rho, and ω production in, (E), 21:35306

interactions anti p + p $\to$ K + anti K + $n\pi$ at 5.7 GeV/c, cross sections, angular, and momentum distributions for, (E), 24:49321

interactions anti p + p $\to$ K + anti K + ω at 1.1 to 1.5 GeV/c, review of T production in, (E), 25:17377

interactions anti p + p $\to$ K + anti K + π + π at rest, properties of C meson from, (E), 23:25519

interactions anti p + p $\to$ K + anti K + π at rest, four-point Veneziano functions for mass spectra and angular distributions for, (T), 25:14691

interactions anti p + p $\to$ K + anti K + π, analysis of, 23:15094

interactions anti p + p $\to$ K + anti K + π, review of Faddeev equations for, 23:49212

interactions anti p + p $\to$ K + anti K^* (anti K + K^*) below $K\pi$ threshold, upper limit for J/sup P/ = 0^+, S = +1 K^* production in, (E), 22:48218

interactions anti p + p $\to$ K + anti K, review of S capture for protonium annihilation in, (T), 23:49135

interactions anti p + p $\to$ K^* + anti K + $n\pi$, angular distributions and cross sections for, (E), 22:17860

interactions anti p + p $\to$ $K^*(890)$ + anti K + π + π at 1.5 to 1.95 GeV/c, evidence for U(2360) production in, (E), 24:30442

interactions anti p + p $\to$ K^0 + anti K^0 + π^+ + π^- at 0.7 GeV/c in bubble chamber, production of nonstrange I = 1 meson (1540) in, (E), 23:34531

interactions anti p + p $\to$ K^0 + anti K^0 above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)

interactions anti p + p $\to$ K^0 + anti K^0 in protonium, s-capture for annihilation, 23:15094

interactions anti p + p $\to$ K^0 + anti K^0, review of S capture for protonium annihilation in, (T), 23:49135

interactions anti p + p $\to$ K_1^0 + (K^0 + π^0) + π^+ + π^- at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696

interactions anti p + p $\to$ K_1^0 + K^0 + π^+ + π^- at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K^0 at 1.2 GeV/c, branching ratio for, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K_1^0 + eta at rest, branching ratios for, (E), 21:871 (NEVIS-154)

interactions anti p + p $\to$ K_1^0 + K_1^0 + $m\pi$ at 6.935 GeV/c in hydrogen bubble chamber, cross sections and angular distributions for, 21:37695

interactions anti p + p $\to$ K_1^0 + K_1^0 + ω at rest, branching ratios and ω width from, (E), 21:871 (NEVIS-154)

interactions anti p + p $\to$ K_1^0 + K_1^0 + ω^0, mass, width, and branching ratio of ω^0 from, (E), 25:22811

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^0 at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^0 at rest in hydrogen bubble chamber, (K anti K) and (Kp) system production from, (E), 22:5502

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^+ + π^- + π^0 at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^+ + π^- at 0.7 GeV/c, analysis of meson resonance production in, (E), 24:5246

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^+ + π^- at 0.7 and 1.2 GeV/c in hydrogen bubble chamber, K_1^0 K_1^0 enhancements in, (E), 23:30710

interactions anti p + p $\to$ K_1^0 + K_1^0 + π^+ + π^- at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K_1^0 at rest, C invariance for, 23:21094

interactions anti p + p $\to$ K_1^0 + K_2^0 + γ, strong interaction theory from cross section for, 22:20233

interactions anti p + p $\to$ K_1^0 + K_2^0 + π^+ + π^- at 0.7 GeV/c, analysis of meson resonance production in, (E), 24:5246

interactions anti p + p $\to$ K_1^0 + K_2^0 at 100 to 800 MeV/c in bubble chamber, production and properties of rho(1968) in, (E), 25:50069

interactions anti p + p $\to$ K_1^0 + K_2^0, coherent decay of K_1^0 and K_2^0 from s-wave, 23:15093

interactions anti p + p $\to$ K_1^0 + K^+ + π^- + π^0 at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K^- + π^+ + π^0 at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K_1^0 + K^+ + π^{-+} + π^- + π^+ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696

interactions anti p + p $\to$ K_1^0 + K^+ (K^-) + π^- (π^+) at rest in hydrogen bubble chamber, (K anti K) and (Kp) system production from, (E), 22:5502

interactions anti p + p $\to$ K_1^0 + $K^+(K^-)$ + $\pi^-(\pi^+)$ at 0 to 1.2 GeV/c, structure in $A_2 \to$ K + anti K decay mode from, (E), 23:23354

interactions anti p + p $\to$ K_1^0 + $K^+(K^-)$ + $\pi^-(\pi^+)$ at 1.1 to 1.2 GeV/c in bubble chamber, $F_1^0(1540)$ production in, (E), 25:22671

interactions anti p + p $\to$ K_1^0 + K^{+-} + π^{-+} + (π^0 + π^0) at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696

interactions anti p + p $\to$ K^+ + $2\pi^+$ + $3\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)

interactions anti p + p $\to$ K^+ + $2\pi^+$ + K^- + $2\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)

interactions anti p + p $\to$ K^+ + K_1^0 + π^- at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K^- + K_1^0 + π^+ at 1.2 GeV/c, resonance production from, (E), 21:40147

interactions anti p + p $\to$ K^+ + K^- + γ, strong interaction theory from cross sections for, 22:20233

interactions anti p + p $\to$ K^+ + K^- + ω^0, mass, width, and branching ratio of ω^0 from, (E), 25:22811

interactions anti p + p $\to$ K^+ + K^- + π^+ + π^- + π^0 at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696

interactions anti p + p $\to$ K^+ + K^- + π^+ + π^- + π^0 at 1.2 GeV/c, $K^*(890)$, $\omega(783)$, and phi(1019) production in, (E), 23:27742

interactions anti p + p $\to$ K^+ + K^- + π^+ + π^- at 1.2 GeV/c, $K^*(890)$ production in, (E), 23:27742

interactions anti p + p $\to$ K^+ + K^- + π^+ + π^-, current algebra and PCAC in soft pion limit for differential rate of, 23:25607

interactions anti p + p $\to$ K^+ + K^- above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)

interactions anti p + p $\to$ K^+ + K^- at 0.7 to 2.4 GeV/c, differential cross sections for, (E), 23:44593

interactions anti p + p $\to$ K^+ + K^- at 0.72 to 2.62 GeV/c, spark chamber study of differential cross sections for, (E), 23:25520

interactions anti p + p $\to$ K^+ + K^- at 1.62 to 2.20 GeV/c, differential and total cross sections for, (E), 23:5529

interactions anti p + p $\to$ K^- + K^+ at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382

interactions anti p + p $\to$ K^+ + K^- at 200 to 600 MeV/c, angular distributions for, (E), 23:27741 (NP-17873)

interactions anti p + p $\to$ K^- + K^+ at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for, 21:35259

interactions anti p + p $\to$ K^+ + K^- at 330 to 610 MeV/c, total and differential cross sections for, (E), 23:27745

interactions anti p + p $\to$ K^+ + K^- in liquid-propane bubble chamber, fraction of annihilation, (E), 25:9645

interactions anti p + p $\to$ K^+ + K^- in liquid-propane bubble chamber, fraction of annihilation, (E), 25:9645

interactions anti p + p $\to$ K^+ + K^-, absorptive Veneziano model for, 25:1518

interactions anti p + p $\to$ K^- + K^+, cross sections from K + p interactions in Reggeized baryon exchange model, 21:46533

interactions anti p + p $\to$ K^+ + K^-, crossing relations for comparison of K^+ + p and K^- + p backward elastic scattering, 23:46721

interactions anti p + p $\to$ $K^+(K^0)$ + K^-(anti K^0), spin dependence of total and differential cross sections for CP invariance in, (T), 24:52155

interactions anti p + p $\to$ $K^+(\pi^+)$ + $K^-(\pi^-)$ at 7 GeV/c, upper limits for cross sections for, (E), 25:59267

interactions anti p + p $\to$ Λ + anti Λ, absorption model and U(6,6) symmetry for K- or K^*-exchange, 22:20230

interactions anti p + p $\to$ Λ + anti Λ, K conspiracy in, (T), 24:24360

interactions anti p + p $\to$ Λ + anti Λ, Regge pole model and U(6,6) symmetry for, 23:34585

interactions anti p + p $\to$ Λ + anti Σ^0, absorption model and U(6,6) symmetry for K- or K^*-exchange, 22:20230

interactions anti p + p $\to$ $m_1\pi^+$ + $m_2\pi^-$ + $m_3\pi^0$ + m_4K at 0 to 7 GeV/c, (T), 22:3378 (INP-555/PL/PH, pp 1-15)

interactions anti p + p $\to$ $m\pi$ (m = 2, 3, 4, 5, 6) at rest, review of, 23:13084 (ANL/HEP-6812, pp 4-16)

interactions anti p + p $\to$ $m\pi$ ($m > 7$) at 2.7 GeV/c, cross sections, invariant-mass distributions, and angular distributions for, (E), 24:49320

interactions anti p + p $\to$ $m\pi$ above 2.5 GeV/c, Reggeized multiperipheral model for correlation effects between pions in, (E/T), 24:3643

interactions anti p + p $\to$ $m\pi$, Reggeized multiperipheral model for cross sections, angular and momentum distributions of, 23:34591

interactions anti p + p $\to$ μ^+ + μ^-, consequences on colliding beam experiments from total cross sections for, 21:29448

interactions anti p + p $\to$ n + anti n at 3.0 to 9.0 GeV/c, absorption model and U(6,6) for, 21:29528

interactions anti p + p $\to$ n + anti n at 5 GeV/c, Regge-pole model with diffractive correction for, 24:18224

interactions anti p + p $\to$ n + anti n at high energies, Regge pole models with branching in j-plane for differential cross sections for, 22:39377

interactions anti p + p $\to$ n + anti n, conspiracy of singularities in complex angular momentum plane for, 22:11688

interactions anti p + p $\to$ n + anti n, differential cross sections for, (T), 23:5615

interactions anti p + p $\to$ n + anti n, invariant functions in Regge pole model for structure of, 24:3692

interactions anti p + p $\to$ n + anti n, Regge pole model of, 23:5605

interactions anti p + p $\to$ n + anti n, Regge pole model for invariant functions for, 23:51952

interactions anti p + p $\to$ n + anti n, Regge-pole analysis of, 22:5603

interactions anti p + p $\to$ n + anti n, Regge-pole model for charge-exchange, 21:42353

interactions anti p + p $\to$ N^* + anti N^* at 5.7 GeV/c, quark model predictions for joint decay distributions from, 24:1596

interactions anti p + p $\to$ N^* + anti N^* at high energies, quark model for decay distribution correlations for, 21:21234

interactions anti p + p $\to$ N^* + anti N^*, cross section for, 23:23356

interactions anti p + p $\to$ N^* + anti N^*, method for representing joint decay distributions from, (T), 22:39405 (TPJU-15/67)

interactions anti p + p $\to$ N^* + anti N^*, use of statistical tensors for joint decay angular distributions in, 22:24629

interactions anti p + p $\to$ N_{33}^* anti N_{33}^* at 5.7 GeV/c in hydrogen bubble chamber, cross sections for, 21:21213

interactions anti p + p $\to$ $n\pi$ + K + anti K, angular distributions and cross sections for, (E), 22:17860

interactions anti p + p $\to$ $n\pi$ (n = 2 to 9), behavior of mean square matrix element for, 23:36912

interactions anti p + p $\to$ $n\pi$ (n = 4,5) at 2.7 GeV/c, investigation of, (E), 21:9705

interactions anti p + p $\to$ $n\pi$ at 1.61 to 5.70 GeV, model for π angular distributions from, 22:15760 (LYCEN-6751)

interactions anti p + p $\to$ $n\pi$, angular distributions and cross sections for, (E), 22:17860

interactions anti p + p $\to$ $n\pi$, dynamic quark model predictions for, 21:44349

interactions anti p + p $\to$ $n\pi$, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)

interactions anti p + p $\to$ $n\pi^+$ + $n\pi^-$ + $m\pi^0$ (n = 3, 4, 5, $m > 0$) at 3.0 and 3.6 GeV/c, angular distributions, cross sections, and resonance production in, 21:46478

interactions anti p + p $\to$ ω + $n\pi$, angular distributions and cross sections for, (E), 22:17860

interactions anti p + p $\to$ ω^0 + π^+ + π^- at rest, analysis of B production, decay, and properties from, 24:5245

interactions anti p + p $\to$ ω^0 + π^+ + π^- at rest, B(1200) production from, (E), 21:9704

interactions anti p + p $\to$ p + anti p + π^0, model for analysis of, 24:28569

interactions anti p + p $\to$ p + anti p + π^+ + π^- at 2.2 GeV/c in bubble chamber, cross sections and $\Delta^{++}(1200)$ and $\Delta^{--}(1200)$ production in, (E), 25:43537

interactions anti p + p $\to$ p + anti p at 8 and 16 GeV/c, upper limit for N^{*-} production in, (E), 24:18079

interactions anti p + p $\to$ p + anti p, diffraction peak in, (T), 23:30751

interactions anti p + p $\to$ phi + π, evidence for, (E), 25:22811

interactions anti p + p $\to$ π^+ + e^- + anti ν/sub e/, preparations for study of W^- production from, (E), 22:13642

interactions anti p + p $\to$ π^+ + π^- + $4\pi^0$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711

interactions anti p + p $\to$ π^+ + π^- + γ, strong interaction theory from cross sections for, 22:20233

interactions anti p + p $\to$ π^+ + π^- + $m\pi^0$, strong interaction isospin invariance check from, (T), 22:22381 (JINR-P2-3691)

interactions anti p + p $\to$ π^+ + π^- + ω at rest, Veneziano-type amplitudes for analysis of, (E/T), 25:45659

interactions anti p + p $\to$ π^+ + π^- + π^0 at rest in hydrogen bubble chamber, (E), 22:34855

interactions anti p + p $\to$ π^+ + π^- + π^0 at rest, analysis of, (E), 22:39382

interactions anti p + p $\to$ π^+ + π^- + π^0 below 1 GeV, cosmic gamma spectrum from, (T), 22:20125 (NP-17315)

interactions anti p + p $\to$ π^+ + π^- + π^0, analysis of, 23:15094

interactions anti p + p $\to$ π^+ + π^- + π^0, Feynman diagrams for angular distributions for, 22:15761 (LYCEN-6757)

interactions anti p + p $\to$ π^+ + π^- + π^0, $\pi\pi$ phase shifts from, 23:10810

interactions anti p + p $\to$ π^+ + π^- + π^0, Veneziano-type parametrization of, 23:46701

interactions anti p + p $\to$ π^+ + π^+ + π^- + π^- + $n\pi^0$ at 1.6 to 2.2 GeV/c, upper limits for production cross sections for, (E), 25:9643

interactions anti p + p $\to$ π^+ + π^+ + π^- + π^- + π^0 at 5.7 GeV/c in hydrogen bubble chamber, resonance production from, 21:40146

interactions anti p + p $\to$ π^+ + π^- + π^+ + π^- at 1.2 GeV/c, structure of $A_2 \to$ rho + π decay in, (E), 23:44604

interactions anti p + p $\to$ π^+ + π^+ + π^- + π^- at 1.63 to 2.20 GeV/c, rho—ω interference in, (E), 25:9647

interactions anti p + p $\to$ π^- + π^- + π^+ + π^+ at 940 MeV/c, cross sections, mass distributions, and angular correlations in, (E), 25:22680

interactions anti p + p $\to$ π^+ + π^- + π^+ + π^- at rest, mass and angular distributions for, (E), 24:49450

interactions anti p + p $\to$ π^+ + π^+ + π^- + π^- at rest, π angular correlations in, (T), 22:3380 (INP-555/PL/PH, pp 31-50)

interactions anti p + p $\to$ π^+ + π^+ + π^- + π^-, analysis of, 23:15094

interactions anti p + p $\to$ π^+ + π^- above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)

interactions anti p + p $\to$ π^+ + π^- at 0.7 to 2.4 GeV/c, differential cross sections for, (E), 23:44593

interactions anti p + p $\to$ π^+ + π^- at 0.72 to 2.62 GeV/c, spark chamber study of differential cross sections for, (E), 23:25520

interactions anti p + p $\to$ π^+ + π^- at 1.61 to 4.00 GeV, f^0 intermediate state and cross sections for, (T), 21:2460

interactions anti p + p $\to$ π^+ + π^- at 1.62 to 2.20 GeV/c, differential and total cross sections for, (E), 23:5529

interactions anti p + p $\to$ π^+ + π^- at 10 to 50 GeV/c, proposed experiment for, 24:51933 (TID-25473(Vol.4), pp 303-6)

interactions anti p + p $\to$ π^- + π^+ at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382

interactions anti p + p $\to$ π^+ + π^- at 200 to 600 MeV/c, angular distributions for, (E), 23:27741 (NP-17873)

interactions anti p + p $\to$ π^- + π^+ at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for, 21:35259

interactions anti p + p $\to$ π^+ + π^- at 330 to 610 MeV/c, total and differential cross sections for, (E), 23:27745

interactions anti p + p $\rightarrow \pi^- + \pi^+$ at 6 and 8 GeV/c, Cherenkov counter study of average differential cross sections for, (E), 23:42556
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ in liquid-propane bubble chamber, fraction of annihilation, (E), 25:9645
interactions anti p + p $\rightarrow \pi^- + \pi^+$, cross sections from π + p interactions in Reggeized baryon exchange model, 21:46533
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, crossing relations for comparison of π^+ + p and π^- + p backward elastic interactions and, 23:46721
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, Feynman diagrams for angular distributions for, 22:15761 (LYCEN-6757)
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, intermediate vector meson model for, 21:9782
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, spin dependence of total and differential cross sections for CP invariance in, (T), 24:52155
interactions anti p + p $\rightarrow \pi^+ + \pi^-$(rho$^-$) at 8 GeV/c, Cherenkov counter study of average differential cross sections for, (E), 23:42556
interactions anti p + p $\rightarrow \pi^+$ + rho$^-$ at 1 to 2 GeV/c at small angles, (E), 25:33544
interactions anti p + p $\rightarrow \pi^+\pi^-$, K^+K^-, and K^0 anti K^0 in SU(6)/sub W/, cross-section ratios for, 21:21222
interactions anti p + p $\rightarrow$ rho + nπ, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ rho + rho + 4π, kinematics of resonance pair production in, 23:23454 (JINR-P1-4280)
interactions anti p + p $\rightarrow$ rho^0 + rho^0 + π^0 at 1.1 to 1.5 GeV/c, review of T production in, (E), 25:17377
interactions anti p + p $\rightarrow$ rho^0 + rho^0 + π^0 at 1.32 GeV/c in hydrogen bubble chamber, π(2190) production and decay in, (E), 23:30707
interactions anti p + p $\rightarrow$ rho$^+$ + rho$^-$, intermediate vector meson model for, 21:9782
interactions anti p + p $\rightarrow S^* + \pi$, evidence for, (E), 25:22811
interactions anti p + p $\rightarrow \Sigma^0$ + anti Σ^0, absorption model and U(6,6) symmetry for K- or K*-exchange, 22:20230
interactions anti p + p $\rightarrow \Sigma^+$ + anti Σ^-, absorption model and U(6,6) symmetry for K- or K*-exchange, 22:20230
interactions anti p + p $\rightarrow \Sigma^+$(1385) and anti Σ^+(1385) at 5.7 GeV/c, differential cross section and decay angular distributions for, (T), 22:11665
interactions anti p + p $\rightarrow$ W + π(K), cross sections for, (T), 21:21215
interactions anti p + p $\rightarrow X^0 + \pi^+ + \pi^-$ at rest, analysis of, (E), 23:8730
interactions anti p + p $\rightarrow \Xi^- + \Xi^-$ at 2.9 GeV/c, total cross sections for, (E), 25:5270
interactions anti p + p $\rightarrow$ Y + anti N + K, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ Y + anti Y + nπ, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions anti p + p $\rightarrow$ Y + anti Y* + π, angular distributions and cross sections for, 22:17860
interactions anti p + p $\rightarrow$ Y + anti Y, compilation of data on differential cross sections for, (E), 23:34526 (CERN-HERA-69-2)
interactions anti p + p $\rightarrow$ Y + anti Y, cross sections for, 23:23356
interactions anti p + p above 10 GeV, optical model of, 22:35017
interactions anti p + p above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009
interactions anti p + p at rest, gauge-invariant chiral SU(3) x SU(3) symmetric Lagrangian model for two-meson production in s- and p-wave, (T), 25:56538 (ORO-3992-2)
interactions anti p + p at 0.05 to 6.1 GeV, multiplicity distributions of secondaries from, (E), 23:49057
interactions anti p + p at 0.2 to 1.0 GeV, energy dependence of angular correlation effect in multiple π production from, (T), 22:1431
interactions anti p + p at 0.3 to 2.0 GeV/c, s and t channel effects in elastic, 22:50385
interactions anti p + p at 0.7 GeV/c, analysis of D(1285), E(1420), and f'(1515) production in, (E), 24:5241
interactions anti p + p at 1 to 3.3 GeV/c, scintillation counter study of structure in total cross sections for, 21:29441
interactions anti p + p at 1 to 3.3 GeV/c, transmission counter study of total cross sections for, 21:27299 (BNL-11372)
interactions anti p + p at 1 to 3.30 GeV/c, evidence for high-mass boson resonances in total cross sections for, (E), 24:37657
interactions anti p + p at 1 to 7 GeV/c, multiple π production in, (T), 22:24637
interactions anti p + p at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634
interactions anti p + p at 1.1 to 1.52 GeV/c in T-meson region, cross sections for elastic, (E), 25:45658
interactions anti p + p at 1.18 GeV/c, anti p polarization from, (E), 21:5356
interactions anti p + p at 1.2 GeV/c in bubble chamber, rho^0, rho$^+$, rho$^-$, f^0, ω^0, and eta^0 production in four-prong, (E), 23:36830
interactions anti p + p at 1.2 GeV/c, production of rho^0, f^0, A_2^+ and A_2^- in four-prong annihilation, (E), 22:39258
interactions anti p + p at 1.2 to 1.6 GeV/c, total cross sections for, (E), 22:26560
interactions anti p + p at 1.23 to 1.43 GeV/c, differential cross section for elastic, (E), 25:50062
interactions anti p + p at 1.23 to 1.65 GeV/c, comparison of dip-bump structure in elastic, 22:50376
interactions anti p + p at 1.24 to 1.62 GeV/c, cross sections for, (E), 24:49317
interactions anti p + p at 1.24 to 1.62 GeV/c, differential cross sections for elastic, (E), 24:15471
interactions anti p + p at 1.25 to 1.67 GeV/c in deuterium bubble chamber, cross sections for hadron production in, (E), 25:14550
interactions anti p + p at 1.50 to 2.00 GeV/c, review of U(2370) production in, (E), 25:17390
interactions anti p + p at 1.51 to 2.90 GeV/c, differential cross sections for elastic, (E), 25:50063
interactions anti p + p at 1.6 to 2.2 GeV/c in hydrogen bubble chamber, K^*, K^*(892), ω, rho, and odd-C meson resonance (2370) production and angular distributions for, (E), 25:12097
interactions anti p + p at 1.6 to 2.2 GeV/c, differential cross sections for elastic, (E), 22:52933
interactions anti p + p at 1.6 to 70 GeV/c, statistical model with angular momentum conservation for, 22:29684 (DESY-68/10)
interactions anti p + p at 1.73 to 2.97 GeV/c, differential cross sections and polarization distributions for elastic, (E), 22:46330
interactions anti p + p at 1.88 to 3.00 GeV, effect of SU(3) invariance on meson production in, (E), 22:11654
interactions anti p + p at 10 and 14 GeV/c, polarization parameter in forward elastic, (E), 25:56438
interactions anti p + p at 100 to 550 MeV/c in bubble chamber, total annihilation cross section for, (E), 25:40869
interactions anti p + p at 100 to 750 MeV/c in hydrogen bubble chamber, differential elastic and annihilation cross sections and (1927) and (1950) boson resonance production in, (E), 25:12095
interactions anti p + p at 12 GeV/c, Cherenkov counter study of cross sections for, (E), 21:44262
interactions anti p + p at 12 to 70 GeV/c, prediction on slope parameter for elastic diffraction, (T), 25:1505
interactions anti p + p at 16.0 GeV/c, generalization of pomeron + resonance approach to wide-angle elastic, (E/T), 25:50142
interactions anti p + p at 2.2 GeV/c in hydrogen bubble chamber, partial cross sections and K(890), Kanti K, KKπ, K$\pi\pi$, and K*anti K* production in 2K, 4K, 2Kπ, and 2K2π final states in, (E), 25:43536
interactions anti p + p at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, $\Xi^- + \Xi^-$, Λ + anti Λ, and Λ + anti Σ^0 production in, (E), 24:20071 (IS-T-354)
interactions anti p + p at 2.4 and 2.9 GeV/c, differential cross sections for Λanti Λ and Λ anti Σ^0 final states in, (E), 25:5270
interactions anti p + p at 2.4 and 2.9 GeV/c, on-line measuring system for bubble chamber study of, 24:16883 (IS-2231)
interactions anti p + p at 2.4 and 2.9 GeV/c, Σ(1385), Λ(1405), and Λ(1520) production in three-body final states in, (E), 25:5270
interactions anti p + p at 2.5 GeV/c, cross sections for final states and resonance production in, (E), 25:59272
interactions anti p + p at 2.5 GeV/c, review of data on spin effects in elastic, 23:23478
interactions anti p + p at 2.7 GeV/c in hydrogen bubble chamber, differential cross sections for elastic, 21:31526
interactions anti p + p at 2.7 GeV/c, cross sections for hyperon production in, (E), 21:44268
interactions anti p + p at 2.7 GeV/c, cross sections and missing mass distributions for single π production in, (E), 23:44597
interactions anti p + p at 2.7 GeV/c, meson (π) production from, (E), 21:9698 (IS-T-115)
interactions anti p + p at 2.85 GeV, absorption model of charge-exchange, 23:36960
interactions anti p + p at 20 to 65 GeV/c, energy dependence of total cross sections for, (E), 25:56433
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 24:5258
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 25:5295
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 25:45666 (IFVE-SEF-69-87)
interactions anti p + p at 25 + 25 GeV, schematic predictions for inelastic, 24:20138
interactions anti p + p at 3 GeV/c in emulsion nuclei, strong absorption model for, 21:37799
interactions anti p + p at 3 GeV/c in emulsions, cross sections for, (E), 23:5531
interactions anti p + p at 3 GeV/c, kinematics of quasi-elastic, 21:11769 (NP-16423)
interactions anti p + p at 3.55 GeV/c, spark chamber study of angular distributions and cross sections for elastic, (E), 23:42553
interactions anti p + p at 3.6 GeV/c in bubble chamber, annihilation mechanism from secondary-particle angular distributions from, (E), 24:51921 (NP-18445)
interactions anti p + p at 300 to 700 MeV/c in bubble chamber, study of differential cross sections in backward, (E), 22:52934
interactions anti p + p at 49.4 to 181 MeV, anti p polarization from elastic, (E), 25:9646
interactions anti p + p at 5 to 30 GeV/c, forward spin-independent amplitudes and dispersion relations for, (T), 24:5308
interactions anti p + p at 5.7 GeV/c, cross sections and density matrix elements for Σ(1385) production in, (E), 25:40871
interactions anti p + p at 5.7 GeV/c, N*(1518) and N*(1688) widths and decay branching ratios from, (E), 21:18901
interactions anti p + p at 50 to 150 MeV, partial-wave analysis of amplitude for, (E/T), 22:24640
interactions anti p + p at 50 to 180 MeV, differential cross sections for charge-exchange, (E), 22:24543
interactions anti p + p at 57 to 178 MeV, cross sections for elastic and inelastic, (E), 21:3985
interactions anti p + p at 6 GeV/c, differential cross sections for elastic, (E), 22:41746
interactions anti p + p at 6 to 17 GeV/c, angular distributions and cross sections for elastic, (E), 23:36852
interactions anti p + p at 6.65 GeV/c, total cross sections for, 25:19907
interactions anti p + p at 6.65 GeV/c, total cross sections for, (E), 25:59275
interactions anti p + p at 6.9 GeV/c in bubble chamber, angular distribution and cross section for, (E), 22:39257
interactions anti p + p at 6.94 GeV/c in hydrogen bubble chamber, Y* production from, 21:33608
interactions anti p + p at 6.94 GeV/c, angular distributions and cross sections for nπ(n greater than 7) production in annihilation, (E), 24:51948
interactions anti p + p at 6.94 GeV/c, cross sections for π production and elastic, (E), 22:50291
interactions anti p + p at 63 to 175 MeV, differential cross sections for elastic, (E), 22:24544
interactions anti p + p at 7 GeV/c in hydrogen bubble chamber, cross section for backward elastic, 21:31525(R) (UCR-34-P-107-46)
interactions anti p + p at 7 GeV/c, cross sections for elastic, (E), 21:2370
interactions anti p + p at 7 GeV/c, hyperon and antihyperon production in, (E), 21:9702
interactions anti p + p at 7 GeV/c, hyperon—antihyperon production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions anti p + p at 7 to 12 GeV/c, differential cross sections for elastic, (E/T), 22:46430
interactions anti p + p at 7 to 15 GeV/c, analysis of two-body and quasi two-body, 23:39691
interactions anti p + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions anti p + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions anti p + p at 8 and 16 GeV/c, angular distributions for, elastic, (E), 23:46606
interactions anti p + p at 800 MeV/c, mesons (K) and resonance meson production in, (E), 21:17034 (NEVIS-157)
interactions anti p + p at 850 MeV/c in hydrogen bubble chamber, $\Delta S = \Delta Q$, $\Delta I = 1/2$, and CP invariance in K^0 decay from, 21:18886 (NEVIS-160)
interactions anti p + p at 9.7 GeV/c, angular distributions for, (E), 23:3647
interactions anti p + p at high energies, 22:3371
interactions anti p + p at high energies and large momentum transfer, model for elastic, 21:7507
interactions anti p + p at high energies, absorption model for form factors for, 21:40240
interactions anti p + p at high energies, analysis of differential and total cross section data for, 25:3411
interactions anti p + p at high energies, charge-exchange and quasi-elastic, (T), 21:13699
interactions anti p + p at high energies, comparison of Regge pole results with data for, (E/T), 23:39723(T) (NP-tr-1826)
interactions anti p + p at high energies, contribution of Regge cut to cross sections for elastic, (E/T), 24:45517
interactions anti p + p at high energies, Coulomb interference in elastic, 21:42367
interactions anti p + p at high energies, cross sections for total annihilation and elastic, 24:15585
interactions anti p + p at high energies, dispersion relation calculation of real part of forward amplitude for, 22:48309
interactions anti p + p at high energies, duality for large-angle, 25:50131
interactions anti p + p at high energies, eikonal model including spin effects for, 23:44677
interactions anti p + p at high energies, large-momentum-transfer π production in, (T), 24:37746
interactions anti p + p at high energies, model for multiple pion production in, 21:33687
interactions anti p + p at high energies, multiple scattering mechanism in quark model for analysis of elastic, 24:8644
interactions anti p + p at high energies, multiple-scattering corrections to Pomeranchuk on exchange in elastic, 22:46397
interactions anti p + p at high energies, optical potential for amplitudes of elastic, 21:15417
interactions anti p + p at high energies, optical—Regge model for small-angle elastic, 23:1653
interactions anti p + p at high energies, overlap matrix formalism for annihilation and charge-exchange, 21:7508
interactions anti p + p at high energies, phase shifts for elastic, (E/T), 21:2455
interactions anti p + p at high energies, polarization effects in, (T), 24:20178
interactions anti p + p at high energies, quark model for large-angle elastic, 22:46389
interactions anti p + p at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions anti p + p at high energies, Regge-pole amplitudes for analysis of differential cross sections for, 23:27799
interactions anti p + p at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions anti p + p at high energies, Regge-pole model of elastic large-angle, 24:18228
interactions anti p + p at high energies, Regge-pole model for elastic, (T), 25:9813
interactions anti p + p at high energies, Regge-pole theory of elastic and charge-exchange, 21:25317
interactions anti p + p at high energies, resonance production in, (T), 22:20174 (NP-17316)
interactions anti p + p at high energies, role of Regge cuts and poles in, 25:45738
interactions anti p + p at high energies, sakaton rearrangement model for, 25:12186

interactions anti p + p at high energies, self-consistent multiple-quark-scattering analysis of, 23:36959
interactions anti p + p at high energies, theory of polarization for, 23:18924
interactions anti p + p at high energies, total cross sections and elastic, 24:49510
interactions anti p + p at high energies, Veneziano—Pomeron model for cross sections and polarizations for elastic, (E/T), 24:26449
interactions anti p + p at high momentum transfer, analysis of elastic, 21:27383
interactions anti p + p at large angles and large momentum transfer, differential cross section behavior for, 23:15127
interactions anti p + p at low energies, nonrelativistic quark model for meson resonance production in, (E/T), 24:5240
interactions anti p + p at rest and 1.2 GeV/c, evidence of I = 1 (K anti K) enhancement in, (E/T), 21:44369
interactions anti p + p at rest and in flight, review on annihilation, 23:23356
interactions anti p + p at rest in hydrogen bubble chamber, branching ratios for K + anti K + 3π, K + anti K + eta, and K + anti K + ω final states in, (E), 21:29447
interactions anti p + p at rest in liquid hydrogen, annihilation rates for pionic and kaonic final states from, 23:15094
interactions anti p + p at rest, equality of electric and magnetic form factors from, 21:33654
interactions anti p + p at rest, extended quark-rearrangement model for annihilation, 24:3634
interactions anti p + p at rest, possible experiments for K^0—anti K^0 system production in, (E/T), 25:38649
interactions anti p + p at rest, quark model for pseudoscalar meson production in annihilation, 23:5606
interactions anti p + p at rest, relative annihilation rates of, (E/T), 22:15765
interactions anti p + p at rest, review on annihilation, 23:5607
interactions anti p + p at rest, SL(6) symmetry for two-meson annihilation, (T), 21:2454
interactions anti p + p at rest, statistical model for particle production in, 22:24647
interactions anti p + p at rest, statistical model with SU(3) symmetry for multiple particle production in, 22:32139
interactions anti p + p at rest, SU(3) symmetry for multiple particle production in, 22:41805 (JINR-P2-3879)
interactions anti p + p at rest, tests of SU(6)/sub W/ and SU(3) predictions for annihilation, 22:22390
interactions anti p + p at rest, unitary and higher symmetry for two-meson production from annihilation, 21:35335
interactions anti p + p at rest, unitary-symmetrical statistical model for multiple particle production from annihilation, 21:21212 (JINR-P2-3182)
interactions anti p + p at small momentum transfer, Regge-pole model for elastic, 22:15779
interactions anti p + p below 10 GeV/c, peripheral, 21:31579
interactions anti p + p below 286 MeV under astrophysical conditions, upper limits and selection rules for gamma production in, (T), 22:20174 (NP-17316)
interactions anti p + p below 70 MeV, differential cross sections for elastic, (E/T), 24:51947
interactions anti p + p in deuterium bubble chamber at 1.33 and 5.5 GeV/c, isotopic-spin dependence of annihilation cross sections for, (E), 24:42874
interactions anti p + p in flight, review on multiparticle final states in, (E), 23:13027 (ANL/HEP-6812, pp 108-46)
interactions anti p + p in GeV range, one-boson-exchange contributions in nonlocal field theory to, 23:36925
interactions anti p + p in Glauber quark model, cross sections for elastic, 24:15550
interactions anti p + p in liquid hydrogen bubble chamber, meson resonance production in, (E), 23:42551
interactions anti p + p in quark model, SU(3) violation in, 24:49464
interactions anti p + p in sakaton triplet model, 22:15752
interactions anti p + p to 300 MeV, OBE potential models for, 22:26644
interactions anti p + p, analysis of multiplicity of π production in annihilation, 22:24642
interactions anti p + p, Argand-diagram loops from partial-wave analysis of, 23:15091
interactions anti p + p, atomic effects on annihilation rates for,(T), 25:1455
interactions anti p + p, Born approximation for, (E/T), 24:40419
interactions anti p + p, broken exchange-degenerate Regge-pole model for charge-exchange, 25:7652
interactions anti p + p, compilation of cross section variation with incident momentum for, (E), 25:38647 (CERN-HERA-70-3)
interactions anti p + p, cross sections for large-angle, 23:3757
interactions anti p + p, current algebra and Regge pole theory for, 21:29522
interactions anti p + p, differential cross sections for elastic, (E), 23:10817
interactions anti p + p, dispersion analysis for elastic, 21:35298
interactions anti p + p, dispersion relations for forward, 24:5302
interactions anti p + p, duality effects and π spectra from multiple production in annihilation, (T), 24:42950
interactions anti p + p, duality requirement for elastic, 24:8678
interactions anti p + p, effect of direct-channel resonances in, 24:13053
interactions anti p + p, effects of resonance scattering on charge-exchange and elastic, 22:52979
interactions anti p + p, eikonal Regge model for elastic, 25:9755
interactions anti p + p, energy dependence of angular correlations in, 22:3379 (INP-555/PL/PH, pp 17-29)
interactions anti p + p, energy dependence of cross sections for inelastic, (E/T), 24:24373
interactions anti p + p, Euler angles for π distribution from, 21:29513
interactions anti p + p, extrapolation of slope parameter for, 25:53237
interactions anti p + p, generalized quark model for cross sections and spin density matrix elements for strangeness-exchange, 22:29693
interactions anti p + p, intermediate vector meson production in annihilation, (T), 21:7488
interactions anti p + p, isotopic spin conservation effects on angular correlatons in high-multiplicity π systems in, (T), 24:35650
interactions anti p + p, kinematics of resonance production in, 23:49161
interactions anti p + p, model for Pomeranchuk terms for total and differential cross sections for, (T), 24:37753 (LNF-69/71)
interactions anti p + p, multiperipheral model for charged particle production in, 25:50118 (SU-1206-254)
interactions anti p + p, multiple particle production in, 21:7502
interactions anti p + p, multiple quark scattering analysis for energy and momentum transfer square dependencies of differential cross sections for charge exchange, (E), 25:43615
interactions anti p + p, multiple-quark-scattering analysis of, 25:47833
interactions anti p + p, nucleon-exchange model for multipion production in annihilation, 21:42350
interactions anti p + p, Orear formula for statistics of, 21:9722
interactions anti p + p, polarization effects on charge-conjugation tests in annihilation, 24:13011
interactions anti p + p, polarization effects on charge-conjugation tests in annihilation, 24:13011
interactions anti p + p, polarization in elastic, 23:10817
interactions anti p + p, Pomeranchuk parameters for cross sections for, 24:15608
interactions anti p + p, predictions and validity of forward dispersion relations for amplitudes of, 22:15785 (BNL-12058)
interactions anti p + p, production of mesons decaying to 4π in, (E), 21:18903
interactions anti p + p, production of neutral pseudoscalar and vector mesons in annihilation, (T), 22:22387
interactions anti p + p, production of nonstrange boson resonances in, 23:49127
interactions anti p + p, π and N form factors from multiple quark analysis of consistency relations among diffraction cross sections for, (T), 22:32116
interactions anti p + p, π and N form factors from multiple quark analysis of consistency relations among diffraction cross sections for, (T), 22:32116
interactions anti p + p, quark model for antibaryon—baryon pair production from, 21:33693
interactions anti p + p, quark rearrangement model for, 21:31584
interactions anti p + p, Regge cuts in quark models for multiple, 23:51959
interactions anti p + p, Regge pole fits to cross sections for, 23:15095
interactions anti p + p, Regge pole model and moving branch points in j-plane for crossover with p + p interactions and ωP branching contribution for, 24:3679
interactions anti p + p, Regge pole theory for charge-exchange, 23:5596
interactions anti p + p, Regge-pole model for secondary maxima in, 21:44380
interactions anti p + p, research at Univ. of California Oct. 1, 1969 to Sept. 30, 1970 on heavy boson production in, (E), 25:3261(R) (UCI-34-P-149-1)
interactions anti p + p, resonance and antishrinkage of diffraction peak in, 21:46529
interactions anti p + p, resonance production and branching ratios for multipion production in, (T), 25:12195
interactions anti p + p, review of meson properties from, (E), 25:22669 (SJC-P-70-1)
interactions anti p + p, review of, (E), 25:7636 (CONF-690608-, pp 191-222)
interactions anti p + p, review on, 23:39710
interactions anti p + p, review on elastic and charge exchange, (E), 23:13028 (ANL/HEP-6812, pp 147-97)
interactions anti p + p, selection rules for, 21:11770
interactions anti p + p, semistrong C violation with ΔI = 3 in annihilation, 22:29738
interactions anti p + p, spark chamber for detecting neutral particles produced in, 21:6215
interactions anti p + p, statistical model for multiple-meson production in, 21:922
interactions anti p + p, statistical model with unitary symmetry breaking for annihilation in, 21:7497 (JINR-P2-3001)
interactions anti p + p, statistical unitary symmetry theory for annihilation, 21:44423
interactions anti p + p, SU(3) for three-body final-state hadron production from, 21:42400
interactions anti p + p, tests of charge-conjugation invariance in spectra of massive neutral boson mixing in, (E), 24:3516
interactions anti p + p, theory of linearly rising trajectories for annihilation, 25:9769
interactions anti p + p, total and elastic cross sections for, 23:23356
interactions anti p + p, unitarity upper and lower bounds on absorptive parts of amplitude for elastic, (T), 24:37953
interactions anti p + p, upper bound on imaginary part of amplitude for, 25:3460
interactions anti p + p, upper limit on production rate of tachyons in, (E), 24:28499
interactions anti p + p, weak duality for slopes of angular distributions of elastic, 25:30873
interactions antip + p at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions antip + p at 3.5 GeV/c, equipment for studying wide-angle elastic, 24:23018 (CEA-N-1258)
interactions antip + p at high energies, Regge pole description of two-body exchange, 24:24380
interactions at 10^{10} to 10^{14} eV, evidence for new process in, (E), 24:8561 (N-69-37606)
interactions at 200-GeV, muon shielding calculations for, 25:50455
interactions at 28.5 GeV in emulsions, method for determining primary energy for cosmic jet production from, (E/T), 23:16930
interactions at 3.0 to 7.0 GeV/c with large momentum transfer, review of two-body, (E), 22:39268 (CERN-68-7(Vol.1), pp 252-89)
interactions at high energies, forbidden or strongly suppressed, (T), 22:44339(T) (ANL-Trans-650)
interactions at high energies, Regge-pole model of diffraction and exchange, 21:33682
interactions d + p → (np) + p at 2 to 160 MeV, three-body separable potential for, 25:59510
interactions d + p → (pp) + n at 2 to 160 MeV, three-body separable potential for, 25:59510
interactions d + p → ^{3}He + (MM)^0 at 3.22 to 3.78 GeV/c, magnetic spectrometer and scintillation counter study of 300- and 450-MeV enhancements in, (E), 23:51847 (CEA-CONF-1408)
interactions d + p → ^{3}He + γ, calculation of angular distribution of, (T), 25:1558
interactions d + p → ^{3}He + missing mass at 3.25 to 3.76 GeV/c, ABC effect and 450 MeV structure in, 25:30734
interactions d + p → 2p + n at 52 MeV, angular distributions, and cross sections for singlet and triplet d* production in, (E), 25:17371 (NP-18561)
interactions d + p → 2p + n at 52 MeV, cross section for, (E), 23:5802
interactions d + p → d + (MM)$^+$ at 3.22 to 3.78 GeV/c, magnetic spectrometer and scintillation counter study of 300-MeV enhancement in, (E), 23:51847 (CEA-CONF-1408)
interactions d + p → d + missing mass at 3.25 to 3.76 GeV/c, ABC effect and 450 MeV structure in, 25:30734
interactions d + p → d + p at 3.78 GeV/c and 174.5 and 180°, magnetic spectrometer and scintillation counter study of differential cross sections for, (E), 23:51845 (CEA-CONF-1406)
interactions d + p → p + d at 2 to 160 MeV, three-body separable potential for, 25:59510
interactions d + p → p + p + n at 52 MeV, time-of-flight study of n + p and p + p final-state interactions in, (E), 24:3508 (KFK-1012)
interactions d + p → p + p + n at 52.3 MeV, reaction mechanism from angular correlations in, (E), 25:1395 (KFK-1216)
interactions d + p at 1.0 to 1.5 GeV, cross sections as function for four momentum transfer for, (E), 21:23314 (BNL-994, pp 70-102)
interactions d + p at 1.5 to 11.5 MeV, phase-shift analysis of elastic, (E/T), 21:46662
interactions d + p at 21.7 MeV, vector and tensor polarization in elastic, (E), 21:46663
interactions d + p at 22 MeV, tensor and vector polarization in, (E), 21:21422
interactions d + p at 3 to 24 MeV using polarized beams, phase-shift analysis of, (T), 22:39576 (CEA-R-3392)
interactions d + p at 3.76 GeV/c, differential cross sections for elastic, (E), 25:3264
interactions d + p at 52 MeV, n—p scattering length from, (E), 22:48442 (KFK-608)
interactions d + p at 6 and 10 MeV using polarized beam, elastic scattering tensor moments for, 25:53539
interactions e + p → e + Δ (1236), C-violation in, (T), 21:46568
interactions e + p → e + Δ(1236) at 1.5 to 6 GeV, magnetic spectrometer measurement of cross sections for, (E), 22:50274 (DESY-68/42)
interactions e + p → e + Δ(1236) at 1.5 to 6 GeV, transverse and longitudinal cross sections for, (E), 23:1581
interactions e + p → e + Δ(1236), Δ → p + π^0 at 1.3 GeV, cross section for, (E), 23:10735
interactions e + p → e + Δ(1236), Δ(1236) → p + π^0, γpΔ vertex form factor from, (E), 22:52919
interactions e + p → e + Δ^+(1236), Δ^+(1236) → p + π^0 at 1.3 GeV, γpΔ vertex form factor from, (E), 24:35596
interactions e + p → e + hadrons + particles, light-cone analysis for scaling behavior of inclusive, 25:47780
interactions e + p → e + hadrons in parton model, polarization effects in deep inelastic, 25:53099
interactions e + p → e + hadrons, off-mass-shell bootstrap model for, 24:18144
interactions e + p → e + n + π^+ and e + p → e + n + π^0 at energies less than 500 MeV, cross sections and form factors for, (E/T), 23:8716 (TID-24667, pp 541-54)
interactions e + p → e + n + π^+ at 2.2 GeV, π^+ form factor from, (E), 22:24522
interactions e + p → e + n + π^+ at high energies, electromagnetic form factor from cross sections of, (E), 24:20098

interactions $e + p \rightarrow e + n + \pi^+$ near Δ(1236) resonance, differential cross sections for, (E), 24:3494

interactions $e + p \rightarrow e + n + \pi^+$ near Δ(1236) resonance, π form factor and angular distributions from, (E/T), 22:34830

interactions $e + p \rightarrow e + n + \pi^+$ near threshold energy, soft-pion theorem for nucleon axial-vector form factor from, 24:10706

interactions $e + p \rightarrow e + n + \pi^+$ near threshold, π^+ electromagnetic form factor from, (T), 23:23421

interactions $e + p \rightarrow e + n + \pi^+$ on polarized target, asymmetry in, (T), 23:7113

interactions $e + p \rightarrow e + n + \pi^+$, asymmetry for forward and p polarization contributions to cross sections for, (T), 24:24303

interactions $e + p \rightarrow e + n + \pi^+$, coincidence counting methods of radiation corrections for, 21:40139

interactions $e + p \rightarrow e + n + \pi^+$, cross sections for polarized virtual photon production of π^+ in, (E), 22:29618

interactions $e + p \rightarrow e + n + \pi^+$, dynamics of, 23:23422

interactions $e + p \rightarrow e + n + \pi^+$, n and π form factor effects on cross sections for, (T), 25:33618

interactions $e + p \rightarrow e + n + \pi^+$, preliminary results for cross section of, (E), 23:14954

interactions $e + p \rightarrow e + n + \pi^+$, π^+ electromagnetic form factor for asymmetry in, 22:26592 (JINR-P2-3774)

interactions $e + p \rightarrow e + n + \pi^+$, π^+ form factor from, (T), 22:7472

interactions $e + p \rightarrow e + n + \pi^+$, radiative corrections for, (T), 23:7142 (NP-17681)

interactions $e + p \rightarrow e + n + \pi^+$, spark chamber study of, (E), 22:17844 (DESY-F-32/3)

interactions $e + p \rightarrow e + n + W^+$, cross section for, (T) , 22:24616

interactions $e + p \rightarrow e + N^*$ at high momentum transfers, O(3,1) analysis of vertex functions for, 24:10712

interactions $e + p \rightarrow e + n$, cross sections and π form factors from, (E), 22:5491

interactions $e + p \rightarrow e + N^*$ in symmetric quark model, form factors for, 22:34911

interactions $e + p \rightarrow e + N^*$, cross sections for polarized, 24:52013

interactions $e + p \rightarrow e + N^*$, excitation function for $N_{15}^*(1688)$ doublet production from, (T), 21:40175

interactions $e + p \rightarrow e + N^*$, extended-particle-quark model for electromagnetic inelastic form factors of, (T), 24:52024

interactions $e + p \rightarrow e + N^*$, quark-model predictions of form factors for N^* resonances from, 25:17445

interactions $e + p \rightarrow e + N^*$, relation to $p + p \rightarrow p + N^*$ interactions, 23:42615

interactions $e + p \rightarrow e + N^*$, simple harmonic forces in nonrelativistic quark model for, (T), 25:9788

interactions $e + p \rightarrow e + N^*$, structure and excitation mechanism for, (T), 21:46519

interactions $e + p \rightarrow e + N^*$, symmetric quark model with Coulomb potential for, 22:50338

interactions $e + p \rightarrow e + n(p) + \pi^0(\pi^+)$ near threshold, meson (π) and nucleon form factors from cross sections for, (E), 24:12921

interactions $e + p \rightarrow e + n(p) + \pi^+(\pi^0)$ near threshold, scintillation counter telescope study of cross sections and meson (π^+) electromagnetic form factor from, (E), 24:5231 (NP-18072)

interactions $e + p \rightarrow e + p + \ldots$, form factor effects on total cross section for, 23:25581 (JINR-E2-4370)

interactions $e + p \rightarrow e + p + 2\pi$, rho, ω, and phi production in, (T), 24:32994

interactions $e + p \rightarrow e + p + \gamma$ at 0.9 GeV, test of quantum electrodynamics from wide-angle bremsstrahlung production in, (E), 23:13019

interactions $e + p \rightarrow e + p + \gamma$ at 900 MeV, cross sections for wide-angle, (E), 22:48206 (LNF-68/46)

interactions $e + p \rightarrow e + p + \gamma$ at very high energies, recoil protons from wide-angle bremsstrahlung in, (T), 24:21954 (LAL-1196)

interactions $e + p \rightarrow e + p + \gamma$, Bethe—Heitler calculation of wide-angle bremsstrahlung contribution to proton spectra in, (T), 25:17447

interactions $e + p \rightarrow e + p + \gamma$, integrated cross sections for wide-angle bremsstrahlung production in, 24:15523

interactions $e + p \rightarrow e + p + \gamma$, test of quantum electrodynamics from virtual photon Compton effect in, 22:48256 (LNF-68/38)

interactions $e + p \rightarrow e + p + \gamma$, test of quantum electrodynamics and virtual-proton Compton effect in, 23:7118

interactions $e + p \rightarrow e + p + \pi^0$ at 2.2 GeV, π^0 form factor from, (E), 22:24522

interactions $e + p \rightarrow e + p + \pi^0$ at 4 GeV/c, cross sections and angular distributions for, (E), 25:50048

interactions $e + p \rightarrow e + p + \pi^0$ at energy region of Δ(1236) resonance, differential cross sections for, (E), 22:26552

interactions $e + p \rightarrow e + p + \pi^0$ near Δ(1236) resonance, differential cross sections for, (E), 24:3494

interactions $e + p \rightarrow e + p + \pi^0$ near threshold energy, soft-pion theorem for nucleon axial-vector form factor from, 24:10706

interactions $e + p \rightarrow e + p + \pi^0$, angular distributions and cross sections for Δ(1236) production in, (E), 25:9625

interactions $e + p \rightarrow e + p + \pi^0$, angular distributions, cross sections, Δ(1236) production and γNN^* form factor from, (E), 25:22658 (DESY-70/65)

interactions $e + p \rightarrow e + p + \pi^0$, dynamics of, (T), 23:23422

interactions $e + p \rightarrow e + p + \pi^0$, experimental method of radiative correction in coincidence measurements of, 25:49011

interactions $e + p \rightarrow e + p + \pi^0$, γNN^* form factor and Δ(1236) production from, (E), 25:25377

interactions $e + p \rightarrow e + p + \pi^0$, γNN^* form factor and multipole amplitudes from analysis of, 22:26609

interactions $e + p \rightarrow e + p + \pi^0$: NUCLEON AXIAL VECTOR FORM FACTOR FROM: (E/T), 24:24217

interactions $e + p \rightarrow e + p + \pi^0$, preliminary results for cross section of, 23:14954

interactions $e + p \rightarrow e + p + \pi^0$, radiative corrections for, (T), 23:7142 (NP-17681)

interactions $e + p \rightarrow e + p + \pi^0$, spectrometer study of production of Δ(1236) and cross sections for, (E), 25:1363 (DESY-70/36)

interactions $e + p \rightarrow e + p + \pi^+ + \pi^-$ at 4.9 GeV, spark chamber study of rho⁰ production from, (E), 22:13634 (DESY-67/41)

interactions $e + p \rightarrow e + p +$ rho⁰ (phi,ω) at high energies, angular distributions in, (T), 23:46649

interactions $e + p \rightarrow e + p +$ rho⁰ at 7.5 to 9.5 GeV, cross sections for, (E), 25:33520

interactions $e + p \rightarrow e + p +$ rho⁰, field-theoretic model calculations of, 23:32672

interactions $e + p \rightarrow e + p$ at 0.7 to 25.0 GeV/c, magnetic spectrometer and total-absorption shower counter study of cross sections for, (E), 22:11569 (SLAC-PUB-372)

interactions $e + p \rightarrow e + p$ at 1.0 to 3.75 $(GeV/c)^2$, scaling in ratio of proton electric and magnetic form factors from, (E), 24:18065

interactions $e + p \rightarrow e + p$ at 1.14 to 6.56 GeV, proton electromagnetic form factors from spectrometer study of cross sections for, (E), 25:1373

interactions $e + p \rightarrow e + p$ at 100 GeV, proposed experiments on, 24:51883 (TID-25473(Vol.4), pp 77-8)

interactions $e + p \rightarrow e + p$ at 15 and 18 GeV, magnetic spectrometer and scintillation counter hodoscope study of polarization in, (E), 24:24214

interactions $e + p \rightarrow e + p$ at 15 and 18 GeV, search for polarization in, (E), 25:5252 (UCRL-20093)

interactions $e + p \rightarrow e + p$ at 15 and 18 GeV, search for polarization in asymmetry in, (E), 25:45633

interactions $e + p \rightarrow e + p$ at 4 and 10 GeV at 2.6 to 35.0°, magnetic spectrometer study of cross section ratio with $e^+ + p \rightarrow e^+ + p$ interactions for, (E), 24:32955

interactions $e + p \rightarrow e + p$ at 5 GeV/c, simulated time reversal violation in, (T), 24:47489

interactions $e + p \rightarrow e + p$ at 5.275 GeV, use of magnetic spectrometer for momentum analysis of, 21:36456

interactions $e + p \rightarrow e + p$ at 5.5 and 6 GeV, magnetic spectrometer and scintillation counter study of cross sections for elastic, 21:29430

interactions $e + p \rightarrow e + p$ at 6 GeV, proton form factors from elastic, (E), 21:29429

interactions $e + p \rightarrow e + p$ at 70 to 280 MeV, cross sections and proton magnetic form factor from backward, (E), 25:43528 (LAL-1250)

interactions $e + p \rightarrow e + p$ at high energies, equal strengths for second- and first-order contributions to, 25:1428

interactions $e + p \rightarrow e + p$ at high energies, polarization dependence of differential cross sections for, (T), 25:1452

interactions $e + p \rightarrow e + p$ at high energies, proton electromagnetic form factors from spectrometer study of cross sections of, (E), 25:1366 (DESY-70/42)

interactions $e + p \rightarrow e + p$ up to 6 GeV, design of magnetic spectrometer for analysis of, 21:28205 (DESY-67/10)

interactions $e + p \rightarrow e + p$, cross sections for elastic, (E/T), 21:29488

interactions $e + p \rightarrow e + p$, e^2 and e^4 approximations for amplitude structure in, (T), 25:25360 (JINR-P2-5629)

interactions $e + p \rightarrow e + p$, effects of Veneziano-model form factors on ratios of cross sections for $e^+ + p \rightarrow e^+ + p$ interactions and, (T), 25:19942

interactions $e + p \rightarrow e + p$, electromagnetic form factors for, (E), 21:2404 (SLAC-PUB-225)

interactions $e + p \rightarrow e + p$, extended-particle-quark model for nucleon form factors from, (T), 24:52024

interactions $e + p \rightarrow e + p$, form factors of protons from, 21:29460

interactions $e + p \rightarrow e + p$, general expression for differential cross section for polarization dependence of, (T), 22:39329

interactions $e + p \rightarrow e + p$, proton electromagnetic form factors from data on, (T), 25:50090 (JINR-P2-5901)

interactions $e + p \rightarrow e + p$, renormalizable theory with charged and neutral intermediate bosons for, 25:22773

interactions $e + p \rightarrow e + p$, S-matrix evaluation for elastic, 21:29479

interactions $e + p \rightarrow e + p$, three-pole formula for proton form factors from, (T), 22:22366

interactions $e + p \rightarrow e' + p(n) + \pi^0(\pi^+)$ at 1000 to 1170 MeV, Born-approximation and isobaric-model analysis of cross sections for, (E/T), 25:38641

interactions $e + p \rightarrow e + p(n) + \pi^0(\pi^+)$, review of, 23:39659

interactions $e + p \rightarrow e + p(\pi^+) + MM$, production cross sections for, (E), 25:38689 (DESY-71/19)

interactions $e + p \rightarrow e + \pi^0 + p$ at 4.0 to 5.4 GeV, differential cross sections for backward, (E), 25:47707 (DESY-71/29)

interactions $e + p \rightarrow e + \pi^0 + p$, differential cross sections for, (E), 25:59353

interactions $e + p \rightarrow e + \pi^0 + p$, test of dip mechanisms in hadron interactions using, (T), 25:59346

interactions $e + p \rightarrow e + \pi^+ + \Delta^0(1236)$ at 4.0 to 5.4 GeV, differential cross sections for, (E), 25:45629 (DESY-71/25)

interactions $e + p \rightarrow e + \pi^+ + \Delta^0(1236)$, differential cross sections for, (E), 25:50049

interactions $e + p \rightarrow e + \pi^+ + n$ at 0.7 to 3 GeV, spark chamber and threshold Cherenkov counter study of, (E), 22:11567 (DESY-67/31)

interactions $e + p \rightarrow e' + \pi^+ + n$ at 4 to 5.4 GeV, differential cross sections for, (E), 25:27950 (DESY-71/9)

interactions $e + p \rightarrow e + \pi^+ + n$ at 4.0 to 5.4 GeV, differential cross sections for, (E), 25:40865

interactions $e + p \rightarrow e + \pi^+ + n$ at 4.5 GeV, π form factor and cross sections for, (E/T), 25:40864

interactions $e + p \rightarrow e + \pi^+ + n$ at high energies, tests of vector dominance model, finite-energy sum rule predictions for electromagnetic processes, and π form factor from, (T), 24:52009

interactions $e + p \rightarrow e' + \pi^+ + n$ in spark chamber, cross section for π^+ production in, (E), 22:9500

interactions $e + p \rightarrow e + \pi^+ + n$, angular distributions of, (E), 25:33612

interactions $e + p \rightarrow e' + \pi^+ + n$, differential cross sections for, (E), 25:30718

interactions $e + p \rightarrow e' + \pi^+ + n$, longitudinal part of cross section for, (E/T), 25:30719

interactions $e + p \rightarrow e + \pi^+ + n$, virtual photoproduction cross sections and π form factor from, (E), 25:33611

interactions $e + p \rightarrow e + \pi^+ + \pi^- + p$, cross section for rho' production in dual model for diffractive, (T), 25:12137 (DESY-70/56)

interactions $e + p \rightarrow e +$ rho⁰ $+ p$ at 4.9 GeV, differential cross section for $\gamma + p \rightarrow$ rho⁰ $+ p$ interactions from, (E), 22:15716

interactions $e + p \rightarrow$ heavy electron $+ p$, upper limit for cross section for, (E), 21:26150 (MIT-2098-299, pp 35-51)

interactions $e + p \rightarrow \Lambda + \nu$, cross sections, Cabibbo hypothesis, PCAC, and T invariance for weak, 23:18868

interactions $e + p + p \rightarrow {}^2D + \nu$, test of leptonic nonconservation from neutrino capture rate at earth from, (E/T), 23:46678

interactions $e + p \rightarrow p + 2\pi$, hadronic s-channel helicity conservation in, (T), 25:14636 (NYO-4204-10)

interactions $e + p \rightarrow p + W^- + \nu$, total cross sections for, 24:24270

interactions $e + p \rightarrow \pi^0 + e + p$, polarized incident electron for asymmetry in, (T), 25:17440

interactions $e + p \rightarrow \pi^0 + n$ at threshold, neutron electromagnetic form factor from, (E), 25:3244

interactions $e + p \rightarrow \pi^0 + n$ in first resonance region, angular distribution for, (T), 23:30732

interactions $e + p \rightarrow$ rho⁰ $+ p$, Pomeranchuk decoupling from ordinary Regge trajectories in rho⁰ transverse polarization in, (T), 25:5348 (COO-264-562)

interactions $e + p$ above second resonance, review of π production in, (E), 25:56406 (DESY-71/35)

interactions $e + p$ at 0 to 10 GeV, review of nucleon inelastic electromagnetic form factors from, (E/T), 25:52995

interactions $e + p$ at 0.1 to 0.6 $(GeV/c)^2$, resonance production from, (E), 22:3343

interactions $e + p$ at 0.647 to 1.910 GeV, electromagnetic form factors of proton from, (E), 23:8724

interactions $e + p$ at 0.8 and 2 $(GeV/c)^2$, ratio of transverse and longitudinal cross sections of deep inelastic, (E), 24:10652 (DESY-69/46)

interactions $e + p$ at 0.80 to 1.12 GeV, cross sections for absorption of transverse and longitudinal photons in inelastic, (E), 25:36381

interactions $e + p$ at 1.5 to 6 GeV, cross sections for inelastic, (E), 23:18780 (DESY-68/53)

interactions $e + p$ at 1.5 to 6 GeV, Δ(1236) production and form factor from, (E), 23:18780 (DESY-68/53)

interactions $e + p$ at 1.5 to 6 GeV, form factor of $\gamma N\Delta$ vertex and cross section for π production from, (E), 23:5513

interactions $e + p$ at 100 and 245 F^{-2}, magnetic form factors from elastic, (E), 21:3973

interactions $e + p$ at 100 eV, laser-induced multiphoton processes in, (T), 25:33634

interactions $e + p$ at 12 to 18 GeV, test of time reversal invariance in inelastic, (E), 24:52161

interactions $e + p$ at 15 and 18 GeV, magnetic spectrometer and scintillation and shower counter study of time reversal invariance in inelastic, (E), 24:24213

interactions $e + p$ at 150 GeV, self-coupling of weak lepton currents in, (T), 25:43612

interactions $e + p$ at 180°, experimental arrangement for studying, 22:6642 (LAL-1182)

interactions $e + p$ at 19.5 GeV, cross sections and proton structure functions for inelastic, (E), 24:51882 (SLAC-PUB-796)

interactions $e + p$ at 2 GeV/c, cross sections for π production in, (E), 25:53006

interactions $e + p$ at 2.71 to 8.46 GeV, electromagnetic form factors from, 21:27291 (NP-16765)

interactions $e + p$ at 3.5 to 6.0 GeV, cross sections for elastic, 21:21131

interactions $e + p$ at 4 to 20 GeV, review on inelastic, 23:13055

interactions $e + p$ at 4.0 to 17.8 GeV, cross sections and magnetic form factors for elastic, (E), 22:13641

interactions $e + p$ at 5 GeV, search for heavy electron in inelastic, (E), 22:22283

interactions $e + p$ at 7 to 17 GeV at 6 and 10°, cross sections for inelastic, (E), 23:51838

interactions $e + p$ at 7 to 17 GeV at 6 and 10°, structure function from inelastic, (E), 23:51837

interactions $e + p$ at 8.5 MeV, differential cross sections and spectra for elastic, (E), 21:40378

interactions $e + p$ at 938 to 1400 MeV, one-quadrupole spectrometer study of cross sections for inelastic, (E), 22:22279 (DESY-67/34)

interactions $e + p$ at GeV energies, multiple-parton-model predictions for deep inelastic, (T), 25:50098

interactions e + p at high energies, amplitudes for, 23:42618
interactions e + p at high energies, Bjorken limit for inelastic, 23:8770 (UCSD-10-P-10-48)
interactions e + p at high energies, book on, 21:2430
interactions e + p at high energies, broken scale invariance and kinematic moments of cross sections for, 25:17449
interactions e + p at high energies, chiral SU(3) x SU(3) equal-time commutation relation extension to light cone for amplitude of forward spin-averaged, 24:3590
interactions e + p at high energies, complete correspondence identity for nonrelativistic quantum dynamics of Rutherford, 23:39668
interactions e + p at high energies, effect of transverse momentum distribution in parton model for inelastic, (T), 25:3323
interactions e + p at high energies, electromagnetic form factors from, (T), 22:50328
interactions e + p at high energies, extended version of diffraction model with duality, quarks, and partons for electron and hadron production in, 24:12986
interactions e + p at high energies, field theoretic model for neutral vector meson production in, 24:30479 (NYO-2262-TA-217)
interactions e + p at high energies, field-theoretic model of soft, neutral-meson production for deep-inelastic, 25:14607
interactions e + p at high energies, impulse approximation and parton model for deep inelastic, (T), 25:7604
interactions e + p at high energies, models for inelastic, 23:27766 (SLAC-PUB-571)
interactions e + p at high energies, multiperipheral model for form factor for inelastic, (T), 25:43602
interactions e + p at high energies, natural pseudoscalar meson renormalizable theory without cutoff for deep inelastic, 24:24293
interactions e + p at high energies, nonrelativistic quark model for sum rule for inelastic, 21:31564
interactions e + p at high energies, nonrelativistic quark model for sum rules in, 24:18130
interactions e + p at high energies, parton model of protons for inelastic, 24:8592
interactions e + p at high energies, polarization and cross sections for, (T), 22:17903
interactions e + p at high energies, quantum electrodynamics for electron and hadron production in, 23:51987
interactions e + p at high energies, Regge analysis of particle production in, (T), 25:22728
interactions e + p at high energies, review of field theoretic models for deep inelastic, (T), 25:5320 (CONF-700314-, Paper 17)
interactions e + p at high energies, scaling and duality for behavior of resonances and form factor relations for inelastic, (T), 24:51902
interactions e + p at high energies, validity of vector meson dominance from inelastic, (T), 24:42906
interactions e + p at high energies, vector-meson dominance model for inelastic, 23:25559
interactions e + p at high energies, vector-meson dominance model for rho production in, 24:12973
interactions e + p at high energy, form factors from, (E) , 21:25262
interactions e + p at high energy, validity of infinite-momentum limit, 24:13000
interactions e + p at high momentum transfer, field-theoretic bootstrap of vertex functions for elastic, 24:3589
interactions e + p at high momentum transfer, inequality for inelastic backward, 22:5550
interactions e + p at high momentum transfer, sum rules for total cross sections for, 23:18853
interactions e + p at high momentum transfer, total absorption cross section for virtual photons in inelastic, (E), 23:7072 (DESY-68/48)
interactions e + p at high momentum transfers, absorption cross section for virtual photons in inelastic, (E), 23:7077
interactions e + p at q^2 = 0.773 and 1.935 (GeV/c)^2, cross sections for inelastic, (E), 23:27734 (DESY-69/7)
interactions e + p at q^2 = 0.773 and 1.935 (GeV/c)^2, cross sections for inelastic, (E), 24:1496
interactions e + p at q^2 = 75 f^{-2}, proton charge form factor from elastic, (E), 21:31515 (DESY-67/18)
interactions e + p at q^2 = 75 fm^{-2}, proton charge form factor from elastic, (E), 21:42240
interactions e + p at small angles, comparison of cross section for elastic e$^+$ + p interactions with, (T), 24:32992
interactions e + p at small momentum transfers, proton electric form factor from effective charge distribution for, (T), 23:49076
interactions e + p at ultrahigh energies, polarization effects in, (T), 22:39320
interactions e + p at very high energies, proton internal structure determination from, (E/T), 25:36445
interactions e + p below 18 GeV at 18 to 34°, cross sections for inelastic, (E), 25:22660 (SLAC-129)
interactions e + p in CERN ISR storage ring, 22:32350 (CEAL-2000, pp A135-8)
interactions e + p in composite model, scale invariance of structure function for deep inelastic, 25:56465
interactions e + p in deep continuum region, cross sections for, (E/T), 24:24289
interactions e + p in deuterium at 0.27 to 4.47 (GeV/c)^2, ratio of e + n interactions to inelastic, (E), 23:42531
interactions e + p in e + d interactions at high energies, cross sections for inelastic, (E), 25:56405 (DESY-71/33)
interactions e + p in field-theoretic model, Bjorken scaling limit for deep inelastic, 25:22733
interactions e + p in multiperipheral model with scalar couplings, scale invariance in inelastic, (T), 24:45455
interactions e + p in parton model, structure functions for deep inelastic, 24:13001
interactions e + p in quantum electrodynamics, proton models for, 24:20102
interactions e + p in resonance region, upper limits for ratio of longitudinal to transverse cross sections for particle production in, (E), 25:22659 (DESY-71/2)
interactions e + p in Veneziano model, scaling law for deep inelastic, 24:52025
interactions e + p in Veneziano-type model with diffraction, deep inelastic, 25:53098
interactions e + p near Δ(1236), spectrometer study of cross sections for inelastic, (E), 25:43527 (DESY-71/21)
interactions e + p near N(1470), analyticity of inelastic hadronic form factor and model of CP violation for, (T), 25:14765
interactions e + p near threshold, parton model for relation of proton elastic electromagnetic form factor with structure function of deep inelastic, 24:12991
interactions e + p on polarized targets, π angular distribution from production in, (T), 22:50322
interactions e + p to 1.1 GeV, analysis of inelastic, (E/T), 22:11614
interactions e + p to 5 GeV/c, excitation of N*(1238), N*(1512), N*(1688), and N*(1920) in inelastic, (E/T), 21:29422
interactions e + p up to 18 GeV at 18 to 34°, form factors, scaling, and cross sections for inelastic, (E), 25:59242
interactions e + p with polarized protons at 3.98 to 5.98 GeV, time reversal invariance in inelastic, (E), 22:52917
interactions e + p, (n - p) mass difference from, (T), 21:29478
interactions e + p, amplitude for production of two soft π in, 25:43596
interactions e + p, angular distribution of meson pair production in, (T), 22:1411
interactions e + p, asymptotic behavior of highly virtual photons from deep inelastic, 25:25379
interactions e + p, asymptotic behavior of production cross sections for, 23:49093
interactions e + p, asymptotic scaling of structure functions for, 25:59342
interactions e + p, asymptotic sum rules for electroproduction, 24:28512
interactions e + p, Bjorken limit and Jin—Martin lower bound for, (T), 25:3294 (NYO-4204-5)
interactions e + p, bremsstrahlung model for relation of differential cross sections for p + p $\rightarrow$ p + p interactions with proton electromagnetic form factors in, (T), 24:52145
interactions e + p, C-invariance violation from asymmetry in, 25:33792
interactions e + p, canonical quantum field theory of deep-inelastic, 24:30480
interactions e + p, classical theory for correspondence identity derivation for Rutherford, 23:39667
interactions e + p, coincidence measurement of cross sections for elastic, (E), 24:37607
interactions e + p, comparison of structure functions with inelastic p + p interactions at 19.2 GeV/c, 25:7541
interactions e + p, conformal symmetry for deep inelastic, 24:40304
interactions e + p, contribution of elastic intermediate states to polarization of recoil proton in elastic, 25:22752
interactions e + p, contribution of longitudinal virtual photon in inelastic, (E), 23:14941
interactions e + p, cross sections for electromagnetic polarized, (T), 22:22367
interactions e + p, cross sections for inelastic, (E), 22:34833
interactions e + p, cross sections for inelastic, (E/T), 24:24217
interactions e + p, cross sections for inelastic, (T), 22:1412
interactions e + p, current algebra methods and scale invariance for deep inelastic, 25:33601
interactions e + p, diffraction model in eikonal approximation for deep elastic, 24:18132
interactions e + p, dispersion sum rules for inelastic, 24:26395
interactions e + p, distributions of transverse momenta in inelastic, (T), 25:27974
interactions e + p, domain of validity of vector-dominance model for inelastic, 24:18123
interactions e + p, effect of electron structure on polarization for one-photon-exchange, 21:37753
interactions e + p, effect of proton structure on quasi-potential of, 22:9542
interactions e + p, electromagnetic contribution to bremsstrahlung production from, 21:23321
interactions e + p, electromagnetic form factor of protons from, 22:11626
interactions e + p, electromagnetic form factors from, 22:3326
interactions e + p, experimental methods and equipment for elastic, 22:11611
interactions e + p, extrapolation of structure function from deep inelastic region to resonance region in, (T), 25:40923
interactions e + p, field theory for Compton scattering amplitude and duality in deep inelastic current, (T), 25:59363
interactions e + p, final particle correlations in deep inelastic, 24:24295
interactions e + p, fixed pole in virtual Compton amplitude for, 25:14608
interactions e + p, fixed poles in virtual Compton amplitudes for q^2 dependence of structure functions of inelastic, 24:24294
interactions e + p, form factor from elastic, 23:10784
interactions e + p, form factors from inelastic, 22:11611
interactions e + p, form factors of N* resonances from, (E/T), 23:8711 (ISS-68/15, pp 30-44)
interactions e + p, generalized vector meson dominance for phenomenological scaling in inelastic, (T), 25:40914 (COO-264-580)
interactions e + p, geometrical interpretation of scale invariance in, (T), 24:45458
interactions e + p, geometrical interpretation of scale invariance for inelastic, (T), 24:47397 (LNF-70/34)
interactions e + p, hadron electrodynamics in resonance model for, 25:59386
interactions e + p, incoherent droplet model for inelastic, 24:24265 (ANL/HEP-6909, pp 150-8)
interactions e + p, incoherent droplet model for multiparticle production in, 23:16947 (MIT-2098-506)
interactions e + p, isobar model calculations of polarization of recoil protons in elastic, (T), 25:30780
interactions e + p, ladder model for structure functions for deep-inelastic, 25:14612
interactions e + p, leading light-cone behavior in deep inelastic, (E), 25:7600
interactions e + p, lectures on parton model for structure functions, sum rules, and asymptotic behavior for electron production in deep inelastic, (T), 25:47778
interactions e + p, light-cone expansions of current operator products for exclusive, 25:33614
interactions e + p, limits on P-violating polarization in, 21:46569
interactions e + p, LISP program for algebraic computation of radiative corrections for, 21:18942
interactions e + p, longitudinal γ contribution to π production from, (E), 22:13635 (LAL-1185)
interactions e + p, longitudinal photon contribution to π production in, (E), 22:26550
interactions e + p, meson and baryon resonance production in, 22:46375
interactions e + p, model for renormalizable theory for weak, 22:48280
interactions e + p, modification of one-photon—electron vertex function effects on polarization in, (T), 23:39661
interactions e + p, most probable number of partons in parton models for inelastic, (T), 25:43585 (SU-1206-246)
interactions e + p, multi-Regge model for inelastic, 24:13006
interactions e + p, multi-Regge model for inelastic, (T), 25:14621
interactions e + p, nucleon electromagnetic structure determination from, (T), 22:13718
interactions e + p, nucleon structure function from three-quark-boson model for deep inelastic, 25:40933
interactions e + p, O(3,1) analysis of currents and current commutators for singularities of Fourier transforms for inelastic, (T), 25:19934
interactions e + p, P-odd effects in, 23:23438
interactions e + p, parton and quark models for deep inelastic, (T), 25:3310 (DESY-70/50)
interactions e + p, parton model for analysis of inelastic, (T), 24:40318
interactions e + p, parton model for differential distributions for large-invariant-mass μ^+—μ^- pair production in inelastic, (T), 25:47784
interactions e + p, parton model for inelastic, (T), 24:10701 (SU-1206-207)
interactions e + p, parton model for structure functions for hadron production in deep inelastic, (T), 25:5330
interactions e + p, parton—duality model for structure functions for deep-inelastic, (T), 25:17441
interactions e + p, PCAC hypothesis and current algebra analysis of cross sections for pion production in, 25:53061
interactions e + p, phenomenological analysis of inelastic nucleon form factors from, (T), 24:20100
interactions e + p, phenomenological model for proton electromagnetic structure in, 24:28509
interactions e + p, phenomenological predictions from virtual photon interactions for deep-inelastic, 25:22753
interactions e + p, pion production in, (E), 24:37608
interactions e + p, polarization of recoil p in elastic, (E), 24:45405
interactions e + p, production of heavy lepton in, (T), 23:7116
interactions e + p, production of N* resonances in, (T), 23:8770 (UCSD-10-P-10-48)
interactions e + p, proton electric form factor from elastic, (E), 23:42532
interactions e + p, proton electromagnetic form factors and cross sections for backward elastic, (E), 25:45641
interactions e + p, proton form factors and radius from, (T), 25:27991
interactions e + p, proton form factors from analysis of cross-section data for, 24:47396 (JINR-P1-5178)
interactions e + p, proton polarization in elastic, (T), 24:40321
interactions e + p, proton self-mass from cross section for, 25:7603
interactions e + p, π production cross sections in electron reactions with carbon-12 at 1.150 GeV at 25 to 60° for Δ(1236) production in, (E), 24:28470
interactions e + p, quark model with relativistic extended internal structure for structure functions for deep inelastic, (T), 25:36444
interactions e + p, radiative corrections for elastic, (T), 23:7142 (NP-17681)
interactions e + p, radiative corrections for two or more observation uncertainties in elastic and inelastic, (T), 23:15035
interactions e + p, radiative corrections to, 23:32667
interactions e + p, radiative corrections to elastic and inelastic, 23:15039
interactions e + p, radiative corrections to inelastic, 25:59366
interactions e + p, range of virtual photons in deep inelastic, (T), 24:40319

interactions $e + p$, ratio of cross sections for elastic $e^+ + p$ and, 22:44302
interactions $e + p$, Regge residues for extrapolation of $\gamma + p$ total cross sections at high energies to deep inelastic region of, (T), 25:3312 (NYO-4204-6)
interactions $e + p$, Reggeization scheme for photon processes for deep inelastic, (T), 25:12148
interactions $e + p$, relation among asymptotic behavior of amplitude, spectral function of current commutator, and sum rules for Schwinger term for, 25:9701 (ITF-70-73)
interactions $e + p$, relation between $p + p$ interactions at high energies and deep inelastic, 25:9805
interactions $e + p$, renormalizable theory of weak interactions for, 22:44386 (ITEF-580)
interactions $e + p$, review of inelastic, (E/T), 23:49156
interactions $e + p$, review of parton and vector dominance models for cross sections and structure functions for hadron production in deep inelastic, (T), 25:36452
interactions $e + p$, review of research on, 21:29421
interactions $e + p$, review on theoretical aspects of inelastic, 24:21964
interactions $e + p$, scale invariance breaking from models for Q^2 dependence of structure functions for inelastic, (T), 25:17422 (SU-1206-236)
interactions $e + p$, scale invariance of proton inelastic structure function from, 25:27995
interactions $e + p$, scaling properties in, (T), 25:36435 (NYO-1932(2)-189)
interactions $e + p$, Schwinger-term sum rule for structure function in inelastic, 25:17434
interactions $e + p$, search for time reversal invariance violation in inelastic, (E), 25:5400 (UCRL-20041)
interactions $e + p$, search for violation of time-reversal invariance in inelastic, (E), 24:32957
interactions $e + p$, separation of infrared contributions to radiative corrections in terms of exponential factor for, 22:29654 (DESY-68/16)
interactions $e + p$, separation of infrared contributions to radiative corrections in, (T), 23:13063
interactions $e + p$, spaceon structures in higher dimensions for, 25:38791
interactions $e + p$, spin-dependent structure functions in cross sections of deep inelastic, (T), 24:26404
interactions $e + p$, structure function and scaling behavior of inelastic, 25:27999
interactions $e + p$, structure functions and cross sections for meson production in, 25:30783
interactions $e + p$, structure functions in ladder model with spin-$^1/_2$ nucleons for deep inelastic, (T), 25:3311 (NYO-4204-4)
interactions $e + p$, sum rules relating proton electromagnetic form factors to cross sections for, 24:24315
interactions $e + p$, super-eikonal model for structure function of deep inelastic, (T), 25:19939 (NYO-2262-TA-221)
interactions $e + p$, supereikonal model for structure function of deep inelastic, (T), 24:45466
interactions $e + p$, tensor operators of rank two for SL(2,C) symmetry for inelastic, 24:37844
interactions $e + p$, test of μ—e universality from comparison of $\mu + p$ inelastic interactions and inelastic, (E/T), 25:50050
interactions $e + p$, test of time reversal invariance in asymmetry in inelastic, (E), 25:45634
interactions $e + p$, test of weak interaction renormalization theories in, (T), 25:14646
interactions $e + p$, transverse momentum distribution in parton model for inelastic, (T), 24:42899 (SU-1206-225)
interactions $e + p$, two-photon exchange contribution to, 24:3568
interactions $e + p$, two-photon exchange contribution to differential cross sections for, (T), 23:42601
interactions $e + p$, two-photon generation mechanism for angular distributions and production cross sections for π^0 production in, (T), 25:59370
interactions $e + p$, two-photon-exchange contribution to elastic, 22:44367
interactions $e + p$, up—down asymmetry in inelastic polarized, 24:45465
interactions $e + p$, use of harmonic analysis for inelastic, 25:40930
interactions $e + p$, validity of Sachs—Schwebel theory of quantum electrodynamics for, 23:15226
interactions $e + p$, vector dominance model for deep inelastic, 24:6707
interactions $e + p$, vector dominance model for inelastic, 25:59365
interactions $e + p$, vector-meson dominance for, 24:24280
interactions $e + p$, vector-meson-dominance predictions for inelastic, 24:12989
interactions $e + p$, Veneziano-like model for two-current amplitude of deep inelastic, (T), 25:19954
interactions $e + p$, weak interaction effects in, (T), 23:13060
interactions $e + p$, wee parton model for single-particle production, 25:59387
interactions $e^+ + e^- \to p$ + anti p, use of Adone storage ring for determining baryon form factors from, 22:11828
interactions $e^- + p \to e^-$ + baryon + meson, baryon form factor from, 21:40183
interactions $e^- + p \to e^- + n + \pi^+$, angular distribution for, (T), 22:3313
interactions $e^- + p \to e^- + n + \pi^+$, charge form factor from, (T), 21:21179
interactions $e^- + p \to e^- + n + \pi^+$, π^+ angular distributions for, (T), 21:35285
interactions $e^- + p \to e^- + n + \pi^+$, radiative corrections for inelastic, (T), 21:2406
interactions $e^- + p \to e^- + N^*$, $N^* \to p + \pi^0$, cross sections for, 23:10961(R) (NP-17704)
interactions $e^- + p \to e^- + N^*(1230)$, γNN^* form factor from, (E), 21:18882
interactions $e^- + p \to e^- + n\pi^+$ ($n = 1, 2 ...$) at 700 to 900 MeV, magnetic spectrometer scintillation telescope study of cross sections of, (E), 22:3244
interactions $e^- + p \to e^- + p + \pi^0$, angular distribution for, (T), 22:3313
interactions $e^- + p \to e^- + p + \pi^0$, π^0 angular distribution for, (T), 21:35285
interactions $e^- + p \to e^- + p + \pi^+ + \pi^-$ at 700 to 900 MeV, magnetic spectrometer and scintillation telescope study of cross sections for, (E), 22:3244
interactions $e^- + p \to e^- + p$ at 0.2 to 20.0 GeV, cross section relative to $e^+ + p \to e^+ + p$ interactions, (E), 22:22270 (CONF-670923-, pp 102-8)
interactions $e^+ + p \to e^+ + p$ at 0.2 to 20.0 GeV, cross section relative to $e^- + p \to e^- + p$ interactions, (E), 22:22270 (CONF-670923-, pp 102-8)
interactions $e^- + p \to e^- + p$ at 1.700 GeV, differential cross section ratio relative to $e^+ + p \to e^+ + p$ interactions, (E), 23:46597
interactions $e^+ + p \to e^+ + p$ at 1.700 GeV, differential cross section ratio relative to $e^- + p \to e^- + p$ interactions, (E), 23:46597
interactions $e^+ + p \to e^+ + p$ at 380 and 980 MeV at 180°, cross section ratio of $e^- + p \to e^- + p$ interactions to, (E), 25:38633 (LAL-1251)
interactions $e^+ + p \to e^+ + p$ at 4 and 10 GeV at 2.6 to 35°, magnetic spectrometer study of cross section ratio with $e + p \to e + p$ interactions for, (E), 24:32955
interactions $e^- + p \to e^- + p$ at high energies, $e^+ + p \to e^+ + p$ interaction ratio to, (E), 23:49032
interactions $e^+ + p \to e^+ + p$ at high energies, polarization dependence of differential cross sections for, (T), 25:1452
interactions $e^- + p \to e^- + p$ at high energies, proton form factor from, (E), 23:49032
interactions $e^+ + p \to e^+ + p$ below 12 GeV, ratio to $e^- + p \to e^- + p$ interactions for, (E), 23:49032
interactions $e^+ + p \to e^+ + p$, effects of Veneziano-model form factors on ratios of cross sections for $e^- + p \to e^- + p$ interactions and, (T), 25:19942
interactions $e^+ + p \to e^+ + p$, general expression for differential cross section for polarization dependence of, (T), 22:39329
interactions $e^- + p \to e^- + p$, nucleon form factors from, (E/T), 21:4021
interactions $e^- + p \to e^- + p$, scintillation counter study of backward, (E), 22:7420 (LAL-1183)
interactions $e^- + p \to e^- + p$, scintillation counter study of cross sections for backward, (E), 22:13639
interactions $e^+ + p \to e^+ + p$, scintillation counter study of backward, (E), 22:7420 (LAL-1183)
interactions $e^+ + p \to e^+ + p$, scintillation counter study of cross sections for backward, (E), 22:13639
interactions $e^- + p \to e^- + \pi^+ + n$, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $e^- + p$ at 1.700 GeV, Cherenkov and scintillation counter and spark chamber study of cross sections for elastic, (E), 22:3240
interactions $e^+ + p$ at 1.700 GeV, Cherenkov and scintillation counter and spark chamber study of cross sections for elastic, (E), 22:3240
interactions $e^+ + p$ at 12 GeV, magnetic spectrometer and scintillation and shower counter study of time reversal invariance in inelastic, (E), 24:24213
interactions $e^+ + p$ at 12 GeV, test of time reversal invariance in inelastic, (E), 24:52161
interactions $e^+ + p$ at 2.34 GeV/c, spectrometer, scintillation and Cherenkov counter study of cross section for elastic, 21:37656 (DESY-67/22)
interactions $e^- + p$ at 2.34 GeV/c, spectrometer, scintillation and Cherenkov counter study of cross section for elastic, 21:37656 (DESY-67/22)
interactions $e^- + p$ at 2.4 GeV, cross sections and proton electromagnetic form factors from elastic, (E), 21:3970(R) (NP-16354)
interactions $e^- + p$ at 2.4 GeV, excitation of nucleon isobars in inelastic, (E), 21:3970(R) (NP-16354)
interactions $e^+ + p$ at 800 and 1200 MeV, cross section for elastic, (E), 22:20115
interactions $e^- + p$ at high energies at 180°, proton magnetic form factor from, (E), 21:18885
interactions $e^- + p$ at high energies, form factors from elastic, (E), 21:7445 (DESY-66/27)
interactions $e^- + p$ at $q^2 = 11.66$ and 35.1 fm^{-2}, elastic cross section relative to $e^+ + p$ interactions, 21:42241
interactions $e^+ + p$ at $q^2 = 11.66$ and 35.1 fm^{-2}, elastic cross section relative to $e^- + p$ interactions, 21:42241
interactions $e^+ + p$ at small angles, comparison of cross section for elastic $e + p$ interactions with elastic, (T), 24:32992
interactions $e^- + p$, Cabibbo-Radicati relation and sum rules for, (T), 21:893 (JINR-E-2865)
interactions $e^- + p$, form factor for $N^*(1236)$ production from, 21:18941 (UR-875-189)
interactions $e^- + p$, form factors from, (E), 21:5348
interactions $e^- + p$, meson (π^+) production from, (T), 21:2418
interactions $e^+ + p$, model for renormalizable theory for weak, 22:48280
interactions $e^- + p$, neutron electromagnetic form factors from, (T), 21:15296
interactions $e^- + p$, proton structure from, (T), 21:17112 (CERN-67-3)
interactions $e^- + p$, π production in, (E/T), 21:2424
interactions $e^+ + p$, radiative corrections to, 23:32667
interactions $e^- + p$, radiative corrections to, (T), 21:15295
interactions $e^+ + p$, ratio of cross sections for elastic $e + p$ and, 22:44302
interactions $e^+ + p$, renormalizable theory of weak interactions for, 22:44386 (ITEF-580)
interactions $e^- + p$, search for heavy electron production in, (E), 21:3970(R) (NP-16354)
interactions $e^+ + p$, search for time reversal invariance violation in inelastic, (E), 25:5400 (UCRL-20041)
interactions $e^+ + p$, two-photon exchange effects in, 22:11611
interactions $\gamma + N \to$ meson + baryon, dynamic quark model predictions for, 21:44349
interactions $\gamma + N$, approximate saturation of collinearized algebra of vector densities in group theoretic limit for N^* production from, 21:44308
interactions $\gamma + p \to 2\pi + p$ at high energies, determination of $\pi\pi$ scattering phase shifts from, (T), 25:9767
interactions $\gamma + p \to A_1^0 + p$, Primakoff effect in, (T), 24:47414
interactions $\gamma + p \to$ anti $K + K + p$, mass distributions in anti KK system for, 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \to$ anti $n + d$ at 4.6 to 5.7 GeV, upper limit on cross section for, (E), 21:44247
interactions $\gamma + p \to$ baryon + meson in quark model, sum rules for, 21:29483
interactions $\gamma + p \to$ baryon resonance + vector meson, off-mass-shell amplitudes for, 21:17077
interactions $\gamma + p \to \Delta(1236) + \pi$ below 1 GeV, single meson (π) diagram and N(1518) exchange in s-channel for cross sections and asymmetry in, 24:1548
interactions $\gamma + p \to \Delta(1236) + \pi^-$ at 4.8 to 6.0 GeV, $\Delta(1236)$ production cross sections and decay angular distributions for, (E), 22:5490
interactions $\gamma + p \to \Delta^0 + \pi^+$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to \Delta^{++} + \pi^- \to p + \pi^+ + \pi^-$ below 0.8 GeV, (T), 22:34896 (DESY-68/7)
interactions $\gamma + p \to \Delta^{++} + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to \Delta^{++} + \pi^-$ below 5.8 GeV, density matrix elements and spin population resonance parameters in, (E/T), 25:9678
interactions $\gamma + p \to \Delta^{++} + \pi^-$ to 1.8 GeV, intermediate isobar model for, (E/T), 23:23405
interactions $\gamma + p \to \Delta^{++}$ (Δ^0) + π^- (π^+) at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to \Delta^{++}(1236) + \pi^-$ at low energies, (T), 23:5567
interactions $\gamma + p \to$ eta + p at 0.8 to 1.1 GeV, counter—spark chamber study of recoil proton polarization in, (E), 25:17354
interactions $\gamma + p \to$ eta + p at 4 and 6 GeV, Cherenkov counter study of differential cross sections of forward, (E), 25:1372
interactions $\gamma + p \to$ eta + p at 4 and 6 GeV, Veneziano model for, (T), 25:9712
interactions $\gamma + p \to$ eta + p at 4 to 6.5 GeV, model of Regge-pole exchange with cut interference for, (E/T), 24:37709
interactions $\gamma + p \to$ eta + p at 4 to 9 GeV, cross sections for, (E), 24:51904 (SLAC-124)
interactions $\gamma + p \to$ eta + p at 4 to 9 GeV, spectrometer study of energy dependence of cross sections for, (E), 25:43529
interactions $\gamma + p \to$ eta + p at 775 to 850 MeV, Cherenkov counter study of angular distribution for, (E), 22:20117
interactions $\gamma + p \to$ eta + p at 800 to 1000 MeV, cross sections for, (E), 21:3974
interactions $\gamma + p \to$ eta + p at high energies, poles and cuts in model for, 24:21953 (ITF-70-2)
interactions $\gamma + p \to$ eta + p below 1 GeV/c, $S_{11}(1530)$ production in, (T), 25:59514
interactions $\gamma + p \to$ eta + p from threshold to 970 MeV, S-matrix analysis of amplitudes for, 22:3338
interactions $\gamma + p \to$ eta + p, cross section for, (T), 22:22359
interactions $\gamma + p \to$ eta + p, model wth poles and cuts for mixing angles of eta_1 and eta_8 isosinglets in, (T), 25:14629
interactions $\gamma + p \to$ eta + p, poles and resonances in, (T), 21:44317
interactions $\gamma + p \to$ eta + p, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \to$ eta + p, review of resonance production in, 21:29481
interactions $\gamma + p \to$ eta + p, S-wave resonance (1560) in, 21:15286
interactions $\gamma + p \to eta^0 + n$ at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + p \to eta^0 + p$ at 1.465 to 1.815 GeV, cross sections for, (E), 25:14522
interactions $\gamma + p \to eta^0 + p$ at 5.0 to 10 GeV, cross sections for, (E), 25:14524
interactions $\gamma + p \to eta^0 + p$ at 6 to 16 GeV, cross sections for, (E), 22:41726
interactions $\gamma + p \to eta^0 + p$ at threshold to 940 MeV, differential cross sections for, (E), 21:9693
interactions $\gamma + p \to eta^0 + p$, differential cross sections for, (E), 21:9694
interactions $\gamma + p \to eta^0 + p$, peripheral model predictions for cross sections for, 24:1553
interactions $\gamma + p \to eta^0(rho^0) + p$ at 6 to 18 GeV, cross sections for backward, (E), 23:49031
interactions $\gamma + p \to \gamma + p$ above 5 GeV, differential cross sections for inelastic diffractive Compton, (T), 25:3308 (DESY-70/45)
interactions $\gamma + p \to \gamma + p$ at 300 MeV, spark chamber and scintillation counter study of cross sections for Compton, (E), 22:11577
interactions $\gamma + p \to \gamma + p$ at 40 to 75 GeV, proposed experiment for Compton, 24:51887 (TID-25473(Vol.4), pp 161-9)
interactions $\gamma + p \to \gamma + p$ at 450 to 1400 MeV, spark chamber and counter study of differential cross section for, (E), 22:29617
interactions $\gamma + p \to \gamma + p$ at 450 to 1400 MeV, spark chamber and counter study of differential cross section for, (E), 22:29617
interactions $\gamma + p \to \gamma + p$ at 5 to 17 GeV, cross sections for, (E), 25:1380

interactions $\gamma + p \to \gamma + p$ at 5 to 7 GeV, cross sections for Compton, (E), 25:1371

interactions $\gamma + p \to \gamma + p$ at 550 to 1130 MeV, differential cross sections for Compton, (E), 22:15750

interactions $\gamma + p \to \gamma + p$ at 6 GeV and small momentum transfers, differential cross sections for, (E), 25:3309 (DESY-70/46)

interactions $\gamma + p \to \gamma + p$ at 600 to 850 MeV, differential cross sections for Compton effect in, (E), 25:7532

interactions $\gamma + p \to \gamma + p$ at 90° in first resonance region, cross section for Compton, (E), 23:3632

interactions $\gamma + p \to \gamma + p$ at high energies, cross sections for inelastic diffractive Compton, (T), 25:22737

interactions $\gamma + p \to \gamma + p$ at high energies, space—time picture of, 23:32671

interactions $\gamma + p \to \gamma + p$ at high energies, vector meson dominance and quark model for, 24:49379

interactions $\gamma + p \to \gamma + p$ in deep inelastic $e + p$ current interactions, field theory for amplitudes of Compton, (T), 25:59363

interactions $\gamma + p \to \gamma + p$, continuous-moment sum rules for Regge parameters and $J = 0$ singularity in spin-averaged forward Compton amplitude of, 24:24268

interactions $\gamma + p \to \gamma + p$, continuous-moment sum rules for Compton, (T), 25:12207

interactions $\gamma + p \to \gamma + p$, lower bounds for amplitude of forward Compton, (T), 24:26403

interactions $\gamma + p \to \gamma + p$, quark model extension for total and differential cross sections for, (T), 25:59378

interactions $\gamma + p \to \gamma + p$, sum rules and bounds for forward Compton, (T), 24:26403

interactions $\gamma + p \to \gamma + p$, vector dominance model for, 23:36870

interactions $\gamma + p \to K + \Sigma(\Lambda)$ at high energies, tests of Regge-pole and strong-absorption models for, (T), 25:12206

interactions $\gamma + p \to K^*(890) + \Lambda(\Sigma)$, Regge pole model for, 23:15024

interactions $\gamma + p \to K^0 + \Sigma^+$ at 1.3 to 1.5 GeV in emulsion, cross sections and quark model predictions for, 21:35251

interactions $\gamma + p \to K^0 + \Sigma^+$ up to 5 GeV, cross sections for K_1^0 production in, (E), 23:23337

interactions $\gamma + p \to K^- +$ baryon at 3.6 to 6.0 GeV, differential cross section for $S = +1$ baryon states from, (E), 23:5565

interactions $\gamma + p \to K^+ + K^- + p$ at 5 to 16 GeV, cross sections for ω production in, (E), 23:21038

interactions $\gamma + p \to K^+ + K^- + p$ in dual-resonance model, diffractive, 24:35630

interactions $\gamma + p \to K^+ + \Lambda$ and $\gamma + p \to K^+ + \Sigma^0$ at 2.88 to 6.1 GeV, ratio of cross sections for, (E), 22:11570

interactions $\gamma + p \to K^+ + \Lambda$ at 1 and 2 GeV, KΛN coupling constant from differential cross sections for backward, (E), 25:52992 (LAL-RI-71-3)

interactions $\gamma + p \to K^+ + \Lambda$ at 1 GeV, Λ polarization and differential cross sections for, (E), 24:45406

interactions $\gamma + p \to K^+ + \Lambda$ at 1 to 1.12 GeV, magnetic spectrometer study of Λ polarization from, (E), 22:3250

interactions $\gamma + p \to K^+ + \Lambda$ at 1.054 to 1.160 GeV and 45 to 90°, spectrometer and scintillation counter study of Λ polarization and monopole analysis for upper limit for width of $S_{11}(1710)$ in, (E), 24:21909 (INSJ-113)

interactions $\gamma + p \to K^+ + \Lambda$ at 1.1 to 1.3 GeV, counter telescope study of Λ polarization and differential cross section for, (E), 21:37662

interactions $\gamma + p \to K^+ + \Lambda$ at 1.3 GeV, differential cross sections for, (E), 25:5253

interactions $\gamma + p \to K^+ + \Lambda$ at 1.61 to 1.82 GeV, resonant amplitudes in, (E/T), 21:5369

interactions $\gamma + p \to K^+ + \Lambda$ at 11 GeV, cross sections for, (E), 25:25285

interactions $\gamma + p \to K^+ + \Lambda$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602

interactions $\gamma + p \to K^+ + \Lambda$ at 5 to 16 GeV, cut conspiracy and K evasion in, (T), 23:44622

interactions $\gamma + p \to K^+ + \Lambda$ at 940 and 975 MeV, counter telescope study of cross section for, (E), 22:3243

interactions $\gamma + p \to K^+ + \Lambda$ at 940 and 975 MeV, counter telescope study of cross section for, (E), 22:3243

interactions $\gamma + p \to K^+ + \Lambda$ at low and intermediate energies, isobar analysis of ΛKN coupling constants from, 25:14627

interactions $\gamma + p \to K^+ + \Lambda$ at threshold to 2.0 GeV, multipole analysis of, (E/T), 25:9728

interactions $\gamma + p \to K^+ + \Lambda$ divergence conditions for, 21:33640 (JINR-E2-3364)

interactions $\gamma + p \to K^+ + \Lambda$, coherent-droplet model for, (T), 22:9539

interactions $\gamma + p \to K^+ + \Lambda$, PCAC and SU(3) x SU(3) current algebra for, 23:7161

interactions $\gamma + p \to K^+ + \Lambda$, review of experimental data on, 23:10734 (SLAC-PUB-501)

interactions $\gamma + p \to K^+ + \Lambda(1405)$ $(\Lambda(1520))$ at 1 to 2 GeV, upper limits for cross sections for, (E), 24:40228 (LAL-1236)

interactions $\gamma + p \to K^+ + \Lambda(1405)$ at 1.485 GeV, differential cross sections for, (E), 22:9498

interactions $\gamma + p \to K^+ + \Lambda(1520)$ at 1.730 GeV, differential cross sections for, (E), 22:9498

interactions $\gamma + p \to K^+ + \Lambda(1520)$ at 11 GeV, cross sections for, (E), 25:25285

interactions $\gamma + p \to K^+ + \Lambda(\Sigma)$ above 3 GeV, review of experiments on, 22:22274 (CONF-670923-, pp 309-36)

interactions $\gamma + p \to K^+ + \Lambda(\Sigma)$ at 1 to 2 GeV, differential cross sections for, (E), 24:40228 (LAL-1236)

interactions $\gamma + p \to K^+ + \Lambda(\Sigma)$, conspiracy and evasion in, 22:37113

interactions $\gamma + p \to K^+ + \Lambda(\Sigma)$, moving cut contributions to amplitude for, 23:34565

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 1.19 to 1.68 GeV, differential cross sections for, (E), 25:17361

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 4.3 GeV, cross sections and Σ^0/Λ ratio for backward, (E), 23:51834

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 5 to 15 GeV, 24:10655

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, cross sections and Σ^0/Λ ratio for, (E), 23:49032

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, duality and Regge cuts in model for, 25:17424

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ at 5 to 16 GeV, magnetic spectrometer study of cross sections for, (E), 23:30696

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)

interactions $\gamma + p \to K^+ + \Lambda(\Sigma^0)$, review of N^* production in, (E/T), 23:49085

interactions $\gamma + p \to K^+ + \Lambda^0$ (Σ^0) at 3.4 to 5.0 GeV, gas Cherenkov counter study of cross sections for, (E), 22:9502

interactions $\gamma + p \to K^+ + \Lambda^0$ at 0.950 GeV, differential cross sections for, (E), 22:9498

interactions $\gamma + p \to K^+ + \Lambda^0$ at 1.06 to 1.16 GeV, Λ^0 polarization in, (E), 24:20272(R) (NP-18091)

interactions $\gamma + p \to K^+ + \Lambda^0$ at 1000 to 1170 MeV, differential cross sections for K^+ production in, (E), 24:26357 (INSJ-115)

interactions $\gamma + p \to K^+ + \Lambda^0$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423

interactions $\gamma + p \to K^+ + \Sigma$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602

interactions $\gamma + p \to K^+ + \Sigma(1385) + \Lambda(1405)$ at 11 GeV, cross sections for, (E), 25:25285

interactions $\gamma + p \to K^+ + \Sigma(1385)$ at 1 to 2 GeV, upper limits for cross sections for, (E), 24:40228 (LAL-1236)

interactions $\gamma + p \to K^+ + \Sigma(1385)$ at 1.445 GeV, differential cross sections for, (E), 22:9498

interactions $\gamma + p \to K^+ + \Sigma^0$ (Λ^0), multiple scattering corrections to additive quark model predictions of ratio for, 24:10722

interactions $\gamma + p \to K^+ + \Sigma^0$ at 1.080 GeV, differential cross sections for, (E), 22:9498

interactions $\gamma + p \to K^+ + \Sigma^0$ at 1.45 GeV, differential cross sections for, (E), 25:5253

interactions $\gamma + p \to K^+ + \Sigma^0$ at 11 GeV, cross sections for, (E), 25:25285

interactions $\gamma + p \to K^+ + \Sigma^0$ at 1180 MeV, differential cross sections for K^+ production in, (E), 24:26357 (INSJ-115)

interactions $\gamma + p \to K^+ + \Sigma^0$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423

interactions $\gamma + p \to K^+ + \Sigma^0$ at low and intermediate energies, isobar analysis of ΣKN coupling constants from, 25:14627

interactions $\gamma + p \to K^+ + \Sigma^0$ at threshold to 2.0 GeV, multipole analysis of, (E/T), 25:9728

interactions $\gamma + p \to K^+ + \Sigma^0(\Lambda)$ at 5 to 16 GeV, SU(6)/sub w/ predictions of cross sections for, 23:5575

interactions $\gamma + p \to K^+ + \Sigma^0(\Lambda^0)$ at 5 to 16 GeV, Σ^0/Λ^0 ratio from analysis of K^*—K^{**} exchange, 25:25370

interactions $\gamma + p \to K^+ + Y$ at high energies in Regge pole model, 23:32664

interactions $\gamma + p \to K^+ + Y^{**}$ at 4 to 6 GeV, K^+ and Y^* production in, (E), 23:1584

interactions $\gamma + p \to K^- + Z^{*++}$ at 4 to 6 GeV, K^- and Z^* production in, (E), 23:1584

interactions $\gamma + p \to K^- + Z^{++}$, missing-mass spectrometer study of, (E), 24:8556

interactions $\gamma + p \to l^+ + l^-$, corrections to cross sections for C-noninvariant, (T), 22:17901

interactions $\gamma + p \to \Lambda + K^0 + \pi^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)

interactions $\gamma + p \to \Lambda + K^+ + \pi^0$ $(\pi^0 ...)$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)

interactions $\gamma + p \to \Lambda + K^+$ and $\gamma + p \to \Sigma^0 + K^+$ near threshold, angular dependence of cross sections for, (T), 23:7110

interactions $\gamma + p \to \Lambda + K^+$ at backward angles, anomalous magnetic moment of Λ and Regge pole exchanges in, 24:42900

interactions $\gamma + p \to \Lambda + K^+$ at high energies, Regge-pole model for, 22:17904

interactions $\gamma + p \to \Lambda + K^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)

interactions $\gamma + p \to \Lambda + K^+$ near threshold, cross sections for, (T), 23:7110

interactions $\gamma + p \to \Lambda(\Sigma^0) + K^+$, quark model for cross sections for, 22:50336

interactions $\gamma + p \to \Lambda(\Sigma^0) + K^+$, review of coupling parameters for, (E/T), 25:30797

interactions $\gamma + p \to \Lambda^0 + K + \pi$ at 1 to 6 GeV in hydrogen bubble chamber, Y_1^* (1382) and K^* (890) production in, (E), 21:29424

interactions $\gamma + p \to \Lambda^0 + K^+$ in Regge pole model, differential cross sections for, 22:3324

interactions $\gamma + p \to \mu^- + \mu^+ + p$ at 850 MeV, scintillation counter telescope study of cross section of, (E), 22:22288

interactions $\gamma + p \to \mu^- + \mu^+ + p$ test of quantum electrodynamics from, (E), 23:10739

interactions $\gamma + p \to \mu^- + \mu^+ + p$, test of quantum electrodynamics from asymmetry of μ pairs in, (E), 22:39232 (AD-668169)

interactions $\gamma + p \to n + \pi^+$ at 1.2 to 3 BeV, differential cross sections for meson (π) production from, (E), 21:2347

interactions $\gamma + p \to n + \pi^+$ at threshold to 500 MeV, multipole analysis of, (T), 25:19957

interactions $\gamma + p \to n + 2\pi^+ + \pi^-$ at 5.25 GeV in hydrogen bubble chamber, A_2^+ production in, (E), 24:3502

interactions $\gamma + p \to N + n\pi$ up to 12 GeV, cross sections for, (E), 23:5517

interactions $\gamma + p \to N + \pi$, comparison of $\pi + p \to N + \pi$ interactions with, 25:40935

interactions $\gamma + p \to n + \pi^+ + \pi^0$, proposed test for isotensor current from, (E/T), 24:49368 (NYO-4076-8)

interactions $\gamma + p \to n + \pi^+ + \pi^0$, test for presence of isotensor current from, 24:49391

interactions $\gamma + p \to n + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068

interactions $\gamma + p \to n + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for Δ(1236) and rho production in, (E), 24:18068

interactions $\gamma + p \to n + \pi^+ + \pi^+ + \pi^-$ at 4.3 and 5.25 GeV, production of A_1 in, (E/T), 24:5232

interactions $\gamma + p \to n + \pi^+ + \pi^+ + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222

interactions $\gamma + p \to n + \pi^+$ at 1.2 and 3.0 BeV, differential cross sections for, (E), 21:863 (DESY-66/22)

interactions $\gamma + p \to n + \pi^+$ at 1.2 to 3 GeV, differential cross sections for, (E), 21:3970(R) (NP-16354)

interactions $\gamma + p \to n + \pi^+$ at 165 to 230 MeV, differential cross sections for, (E), 22:32043

interactions $\gamma + p \to n + \pi^+$ at 200 to 210 MeV, angular dependence of cross section for, (E), 21:44249

interactions $\gamma + p \to n + \pi^+$ at 200 to 400 MeV, asymmetry ratios in π^+ production from, (E), 21:2348

interactions $\gamma + p \to n + \pi^+$ at 230 to 350 MeV, analysis of angular distributions for, (T), 23:25552

interactions $\gamma + p \to n + \pi^+$ at 250 MeV in nuclei, magnetic spectrometer study of meson (π^+) yield from, (E), 24:18066

interactions $\gamma + p \to n + \pi^+$ at 260 to 350 MeV, absolute differential cross sections and $P_{11}(1470)$ production in, (E), 25:9623

interactions $\gamma + p \to n + \pi^+$ at 260, 290, and 320 MeV, differential cross sections for, (E), 21:44252

interactions $\gamma + p \to n + \pi^+$ at 300 to 400 MeV in helium-4, impulse approximation for, 21:31558

interactions $\gamma + p \to n + \pi^+$ at 320 and 345 MeV, model for, 25:17425

interactions $\gamma + p \to n + \pi^+$ at 500 to 800 MeV, cross sections for, (E), 22:24521

interactions $\gamma + p \to n + \pi^+$ at backward angles, Regge analysis of, (E/T), 24:37690

interactions $\gamma + p \to n + \pi^+$ at high energies, mechanism without conspiracy for, (T), 22:22362

interactions $\gamma + p \to n + \pi^+$ at high energies, Regge-pole model for, 22:17904

interactions $\gamma + p \to n + \pi^+$ at high energies, Regge-pole model for, 22:17899

interactions $\gamma + p \to n + \pi^+$ near first N^*, differential cross sections for backward, (E), 24:51880 (LAL-1225)

interactions $\gamma + p \to n + \pi^+$ near threshold, Δ(1236) contribution to, (E/T), 25:33618

interactions $\gamma + p \to n + \pi^+$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222

interactions $\gamma + p \to n + \pi^+$, current algebra for, 22:13767

interactions $\gamma + p \to n + \pi^+$, current commutators, low-energy theorems, and minimal coupling for π^+ production from, 21:42297

interactions $\gamma + p \to n + \pi^+$, low-energy theorems for, 25:9721

interactions $\gamma + p \to n + \pi^+$, $N^*(1405)$ production in, (T), 21:21166

interactions $\gamma + p \to n + \pi^+$, Regge pole medal for invariant functions for, 23:51952

interactions $\gamma + p \to n + \pi^+$, Regge pole model for invariant functions for differential cross sections of, 24:3565

interactions $\gamma + p \to n + \pi^+$, Regge-pole model for, 23:49088

interactions $\gamma + p \to n + \pi^+$, use of gauge invariance and PCAC hypothesis for threshold amplitude of, 21:44324

interactions $\gamma + p \to n + \pi^+$, Veneziano representation for s- and t-channel exchange conspiracy for forward peak in amplitude of, 23:44616

interactions $\gamma + p \to n + \text{rho}^+$, rho exchange peripheral model for differential cross sections for, (T), 25:7585 (EFI-TF-6-69)

interactions $\gamma + p \to n + W^+$, (T), 21:7488

interactions $\gamma + p \to n + W^+$, cross section for, (T), 23:3692

interactions $\gamma + p \to N^*$, dispersion sum rules for, (T), 21:44314

interactions $\gamma + p \to N^*$, structure and excitation mechanism of N^* in, 21:35281

interactions $\gamma + p \to N^*(1238) + \pi$ near threshold, test of current algebra and electromagnetic C noninvariance in, (T), 21:29611

interactions $\gamma + p \to N^{*++} + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)

interactions $\gamma + p \to N^{*++} + \pi^-$, cross sections and decay distributions for $N^*(1236)$ productions from polarized, 21:31556

interactions $\gamma + p \to N^{*++} + \pi^-$, $N^{*++} \to p + \pi^+$, density matrix elements of N^* for polarized, (T), 24:37689

interactions $\gamma + p \to N^{*++} + \text{rho}^-$ at 0.3 to 5.8 GeV, upper limit for $\text{rho}^- \to \pi^- + \gamma$ width and rho^0 branching ratio from, (E), 21:15253 (DESY-66/32)

interactions $\gamma + p \to N^{*++}(1236) + \pi^-$ at 0.3 to 5.8 GeV, cross sections and angular distributions for, (E), 21:7449
interactions $\gamma + p \to N^{*++}(1238) + \text{rho}^-$ below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \to \omega + N^*$, absorptive OPE model with form factors for, (E/T), 21:33706
interactions $\gamma + p \to \omega + p$ at 1.2 to 8.2 GeV, Pomeron exchange cross section for, (E), 25:25283
interactions $\gamma + p \to \omega + p$ at 2.5 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \to \omega + p$ at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \to \omega + p$ near threshold, spark chamber and scintillation counter study of differential cross sections and ω spin polarization in, (E), 25:17355
interactions $\gamma + p \to \omega + p$, DWBA and diffraction model for, 22:41767 (DESY-68/23)
interactions $\gamma + p \to \omega + p$, ω form factor from Chou—Yang model for, 23:23413
interactions $\gamma + p \to \omega + p$, $\omega^0 \to \pi^+ + \pi^- + \pi^0$, proposed experiment on, 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \to \omega + p$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \to \omega + p$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \to \omega + p$, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \to \omega + p$, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \to \omega + p$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \to \omega(\text{phi}) + p$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \to \omega(\text{phi}) + p$, optical theorem for, 22:41768 (DESY-68/28)
interactions $\gamma + p \to \omega^0 + p$ at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \to \Omega^- + \text{anti } \Omega^- + p + \ldots$, form factor effects on total cross section for, 23:25581 (JINR-E2-4370)
interactions $\gamma + p \to p + 2\pi^0$ at 550 to 730 MeV, differential cross sections for, (E), 25:19890
interactions $\gamma + p \to p + 2\pi^+ + 2\pi^- + \pi^0$ at 5.25 GeV in hydrogen bubble chamber, Δ^{++} and ω^0 production in, (E), 24:3502
interactions $\gamma + p \to p + 2\pi^+ + 2\pi^- + \pi^0$, vector meson dominance, quark model, and isospin independence for, 21:37735 (DESY-67/17)
interactions $\gamma + p \to p + 2\pi^+ + 2\pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + 2\pi^+ + 2\pi^-$ at 5.25 GeV in hydrogen bubble chamber, rho^0, Δ^{++}, and $A_2(1320)$ production in, (E), 24:3502
interactions $\gamma + p \to p + 3\pi^+ + 3\pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + A_1$, Primakoff effect in, 24:21949 (COO-264-540)
interactions $\gamma + p \to p + \text{eta } (X^0)$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + \text{eta}$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \text{eta}$ at 0.8 to 1.45 GeV, counter—spark chamber study of differential cross sections for, (E), 23:23332
interactions $\gamma + p \to p + \text{eta}$ at 0.8 to 1.45 GeV, cross sections for, (E), 22:52914
interactions $\gamma + p \to p + \text{eta}$ at 1.22 to 1.85 GeV at small angles, Cherenkov counter hodoscope study of interference between $S_{11}(1550)$ and $P_{11}(1785)$ in differential cross sections for, (E), 25:17358
interactions $\gamma + p \to p + \text{eta}$ at 950 to 2200 MeV, scintillation counter study of differential cross sections for, (E), 23:39594
interactions $\gamma + p \to p + \text{eta}$ at high energies, pole—cut model for, (T), 25:27989
interactions $\gamma + p \to p + \text{eta}$ at threshold, polarization and S_{11} resonance production in, (T), 21:2414
interactions $\gamma + p \to p + \text{eta}$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \to p + \text{eta}'$, dispersion-theoretic calculation of differential cross section for, 23:10779
interactions $\gamma + p \to p + \text{eta}$, quark model classification of low-mass $I = 1/2$ N^* from, (T), 24:40395
interactions $\gamma + p \to p + \text{eta}$, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + p \to p + \text{eta}$, total and differential cross sections for, (T), 23:10780
interactions $\gamma + p \to p + \text{eta}$, use of poles and resonances for chi^2 fits to, 22:15811
interactions $\gamma + p \to p + \text{eta(rho)} + p$ at 6 to 18 GeV, magnetic spectrometer study of differential cross sections for, (E), 24:42862 (SLAC-109)
interactions $\gamma + p \to p + \text{eta}^0$ at 725 to 875 MeV, differential cross sections for, (E), 23:23333
interactions $\gamma + p \to p + \text{eta}^0$ at 890 and 1050 MeV, differential cross sections and recoil proton polarization for, (E), 25:47716
interactions $\gamma + p \to p + \text{eta}^0$ at 890 MeV, polarization recoil protons in, (E), 21:42613(R) (NP-16992)
interactions $\gamma + p \to p + \text{eta}^0$ at 890 MeV, spark chamber and Cherenkov counter study of recoil proton polarization from, (E), 21:46459
interactions $\gamma + p \to p + \text{eta}^0$, $\text{eta}^0 \to 2\gamma$ at 0.8 to 1.1 GeV, recoil proton polarization in, (E), 25:3255
interactions $\gamma + p \to p + \text{eta}^0$, polarization of recoil protons and differential cross section for, 23:10961(R) (NP-17704)
interactions $\gamma + p \to p + f$ below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \to p + K + \text{anti } K$ at 1 to 6 GeV in hydrogen bubble chamber, phi^0 production in, (E), 21:29424
interactions $\gamma + p \to p + n\pi$ at 800 MeV, resonance production from, (E), 22:13637
interactions $\gamma + p \to p + \tau + \text{anti } \tau$, neutral currents in, (T), 24:40330
interactions $\gamma + p \to p + \omega + \pi^+ + \pi^-$ at 2.5 to 5.8 GeV, cross sections for ω production in, (E), 22:32044
interactions $\gamma + p \to p + \omega$ at 1 to 5 GeV, cross sections as function of energy for , (T), 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \to p + \omega$ at 2.1 to 5.8 GeV, cross sections for ω production in, (E), 22:32044
interactions $\gamma + p \to p + \omega$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for, (E), 24:32956
interactions $\gamma + p \to p + \omega$ at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \to p + \omega$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \to p + \omega$, cross sections for, (E), 23:10740
interactions $\gamma + p \to p + \omega$, cross sections for, (T), 21:9803
interactions $\gamma + p \to p + \omega$, model for production of mesons (ω) in, (E/T), 23:5560
interactions $\gamma + p \to p + \omega^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \omega^0$ at 6 GeV in hydrogen bubble chamber, ω^0 production cross sections for, (E), 21:25221
interactions $\gamma + p \to p + \omega^0$ at 6.5 to 17.8 GeV, differential cross sections for, (E), 22:44307
interactions $\gamma + p \to p + \omega^0$ at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \to p + \text{phi} + \pi^+ + \pi^-$ at 3.5 to 5.8 GeV, cross sections for phi production in, (E), 22:32044
interactions $\gamma + p \to p + \text{phi}$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + \text{phi}$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \text{phi}$ at 2.5 to 5.8 GeV, cross sections for phi production in, (E), 22:32044
interactions $\gamma + p \to p + \text{phi}$ at high energies, suppression in, 24:20117
interactions $\gamma + p \to p + \text{phi}$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \to p + \text{phi}$, cross sections for, (E), 23:10740
interactions $\gamma + p \to p + \text{phi}$, review of, (T), 25:25280 (DESY-70/64)
interactions $\gamma + p \to p + \text{phi}$, review of, (T), 25:25280 (DESY-70/64)
interactions $\gamma + p \to p + \text{phi}^0$ at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \to p + \text{phi}^0$ at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \to p + \pi + 3\pi^+ + 3\pi^-$, vector meson dominance, quark model, and isospin independence for, 21:37735 (DESY-67/17)
interactions $\gamma + p \to p + \pi^0 + \pi^0$ at 450 to 760 MeV, differential cross sections for, (E), 21:33963(R) (NP-16498)
interactions $\gamma + p \to p + \pi^0$ at 1.36 to 3 GeV, angular distributions from, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \to p + \pi^0$ at 163 to 234 MeV, phenomenological analysis of, 22:13699
interactions $\gamma + p \to p + \pi^0$ at 163, 212, and 234 MeV, π^0 angular distributions from, (E), 22:1378
interactions $\gamma + p \to p + \pi^0$ at 200 to 400 MeV, cross sections for, (E), 23:32603
interactions $\gamma + p \to p + \pi^0$ at 200 to 440 MeV, magnetic spectrometer and range telescope study of differential cross sections for, (E), 25:45643
interactions $\gamma + p \to p + \pi^0$ at 200 to 440 MeV, range telescope study of differential cross sections for, (E), 25:45644
interactions $\gamma + p \to p + \pi^0$ at 320 and 360 MeV, model for, 25:17425
interactions $\gamma + p \to p + \pi^0$ at 4 and 5.8 GeV, differential cross section for, (E), 24:51900
interactions $\gamma + p \to p + \pi^0$ at 4.0 and 5.8 GeV, differential cross sections for π^0 production in extreme forward direction in, (E), 24:26356 (DESY-70/1)
interactions $\gamma + p \to p + \pi^0$ at 4.0 to 5.8 GeV at small angles, Cherenkov counter study of differential cross section for, (E), 22:17847
interactions $\gamma + p \to p + \pi^0$ at 4.0 to 5.8 GeV/c, Cherenkov counter study of, (E), 21:44303 (NP-17037)
interactions $\gamma + p \to p + \pi^0$ at 450 to 600 MeV, polarization of recoil protons in, (E), 21:33963(R) (NP-16498)
interactions $\gamma + p \to p + \pi^0$ at 450 to 600 MeV, scintillation counter telescope and spark chamber study of recoil proton polarization in, (E), 22:44306
interactions $\gamma + p \to p + \pi^0$ at 500 to 1000 MeV, polarization of recoil protons in, (E), 22:39238
interactions $\gamma + p \to p + \pi^0$ at 574 to 1211 MeV, magnetic spectrometer and scintillation counter hodoscope study of differential cross sections for, (E), 23:39599
interactions $\gamma + p \to p + \pi^0$ at 660 to 780 MeV, backward anomaly in, (E), 22:34824 (AD-448108)
interactions $\gamma + p \to p + \pi^0$ at 700 to 1150 MeV, cross sections for π^0 production at backward angles in, (E), 23:23420
interactions $\gamma + p \to p + \pi^0$ at 750 and 1450 MeV, spark chamber study of recoil proton polarization in, (E), 22:24523
interactions $\gamma + p \to p + \pi^0$ at 750 to 1450 MeV/c, scintillation counter and spark chamber study of energy dependence of recoil proton polarization in, (E), 22:20112
interactions $\gamma + p \to p + \pi^0$ at backward angles, Regge analysis of, (E/T), 24:37690
interactions $\gamma + p \to p + \pi^0$ at threshold to 500 MeV, multipole analysis of, (T), 25:19957
interactions $\gamma + p \to p + \pi^0$ below 222 MeV, angular distributions for, (E), 23:21039
interactions $\gamma + p \to p + \pi^0$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \to p + \pi^0$, current commutators, low-energy theorems, and minimal coupling for π^0 production from, 21:42297
interactions $\gamma + p \to p + \pi^0$, isotopic structure of isospin-1/2 N^* photoexcitation amplitudes from comparison of proton polarization in $\gamma + n \to p + \pi^-$ interactions and, (T), 24:6681
interactions $\gamma + p \to p + \pi^0$, low-energy theorems for, 25:9721
interactions $\gamma + p \to p + \pi^0$, $N^*(1405)$ production in, (T), 21:21166
interactions $\gamma + p \to p + \pi^0$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + p \to p + \pi^0$, SU(3) symmetry and Regge pole model for, 22:48347
interactions $\gamma + p \to p + \pi^0$, test of E/sub 1+//sup (3)/ multipole from backward, (E/T), 21:44329
interactions $\gamma + p \to p + \pi^+ + \pi^- + K^0 + \text{anti } K^0$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \to p + \pi^+ + \pi^- + K^+ + K^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ above 1.1 GeV, mass distributions in 3π system for, 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for $\Delta(1236)$ and rho production in, (E), 24:18068
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ at 5.25 GeV in hydrogen bubble chamber, forward cross sections, ω width, and upper limits to A_1^0 and A_2^0, and Δ production in, (E), 24:3502
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ below 1.1 GeV, resonance production from review of, (E), 22:13720
interactions $\gamma + p \to p + \pi^+ + \pi^- + \pi^0$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \to p + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 0.3 to 5.8 GeV, cross sections for resonance production in, (E), 24:18068
interactions $\gamma + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 0.3 to 5.8 GeV, cross sections for, (E), 21:3970(R) (NP-16354)
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 1 GeV in hydrogen bubble chamber, analysis of, (E), 23:49035
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 2 to 2.5 GeV, rho^0 production with polarized γ in, (E), 23:8723
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 2.6 to 6.8 GeV, cross sections for, (E), 24:1497
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 2.6 to 6.8 GeV, energy dependence of forward meson (rho) production cross section and π pair production spectra for, (E), 23:51828 (DESY-69/32)
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for $\Delta^{++}(1236)$ and $\Delta^0(1236)$ production and parity asymmetry for $\Delta^{++}(1236)$ production in, (E), 25:1379
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 450 to 1000 MeV, $\Delta(1236)$ isobar excitation mechanism for, (E/T), 22:46316
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 5.25 GeV in hydrogen bubble chamber, rho^0, $\Delta^{++}(1236)$, upper limit for $g^0(1650)$, and rho^0 + p elastic and total cross sections from, (E), 24:3502
interactions $\gamma + p \to p + \pi^+ + \pi^-$ at 800 to 1500 MeV, production of charged pion pairs in, (E), 23:1583
interactions $\gamma + p \to p + \pi^+ + \pi^-$ below 1 GeV in hydrogen bubble chamber, preliminary results for total cross section and $\Delta(1236)$ production in, (E), 22:34828 (LNF-68/21)
interactions $\gamma + p \to p + \pi^+ + \pi^-$ below 1 GeV, isobaric model for proton angular distributions from, (T), 22:32090
interactions $\gamma + p \to p + \pi^+ + \pi^-$ below 5.8 GeV in hydrogen bubble chamber, rho^0 production from, (E), 22:20110(T) (SLAC-Trans-79)
interactions $\gamma + p \to p + \pi^+ + \pi^-$ below 850 MeV, proton angular and π^+p invariant-mass distributions for, (E), 23:3630
interactions $\gamma + p \to p + \pi^+ + \pi^-$ below 900 MeV in deuterium bubble chamber, total cross sections for, (E), 24:24218
interactions $\gamma + p \to p + \pi^+ + \pi^-$ to 6 GeV in hydrogen bubble chamber, angular distributions and cross sections for, (E), 21:25222
interactions $\gamma + p \to p + \pi^+ + \pi^-$, below 1.4 GeV, review of resonance production from, 22:13720

interactions $\gamma + p \to p + \pi^+ + \pi^-$, dual-resonance model for diffractive, (T), 24:28517
interactions $\gamma + p \to p + \pi^+$ at 5 to 15.5 GeV, spectrometer study of cross sections for backward, (E), 23:49030
interactions $\gamma + p \to p + \text{rho}$, cross sections for, (T), 21:9803
interactions $\gamma + p \to p + \text{rho}^0 + \pi^+ + \pi^-$ at 3.5 to 5.8 GeV, cross sections for rho^0 production in, (E), 22:32044
interactions $\gamma + p \to p + \text{rho}^0\ (\omega)$ at 0.3 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 22:39235 (DESY-68/8)
interactions $\gamma + p \to p + \text{rho}^0\ (\omega^0)$ at high energies, with Pomeranchuk pole and tensor Reggeon exchange, 24:20117
interactions $\gamma + p \to p + \text{rho}^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + \text{rho}^0$ at 1 to 5 GeV, cross sections as function of energy for, (E), 22:48202(R) (BMwF-FBK-68-01)
interactions $\gamma + p \to p + \text{rho}^0$ at 2 to 5.8 GeV, cross sections for rho^0 production in, (E), 22:32044
interactions $\gamma + p \to p + \text{rho}^0$ at 2.6 to 6.8 GeV, dipion spectra and cross sections for forward, (E), 25:47718
interactions $\gamma + p \to p + \text{rho}^0$ at 6.5 to 17.8 GeV, differential cross sections for, (E), 22:44307
interactions $\gamma + p \to p + \text{rho}^0$ at high energies, current algebra and Regge pole model for, 22:24594
interactions $\gamma + p \to p + \text{rho}^0$ at high energies, Regge pole analysis for, 21:9737
interactions $\gamma + p \to p + \text{rho}^0$ below 5.8 GeV, cross sections for, (E), 21:21132
interactions $\gamma + p \to p + \text{rho}^0$ below 5.8 GeV, density matrix elements and spin population resonance parameters in, (E/T), 25:9678
interactions $\gamma + p \to p + \text{rho}^0$, cross sections for, (E), 23:10740
interactions $\gamma + p \to p + \text{rho}^0$, $\text{rho}^0 \to \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, conservation of s-channel helicity in decay angular distributions of, (E), 24:26360
interactions $\gamma + p \to p + \text{rho}^0$, $\text{rho}^0 \to \pi^+ + \pi^-$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, cross sections for rho^0 mass shift in, (E), 24:26359
interactions $\gamma + p \to p + \text{rho}^0$, sum rules from field algebra for, 23:27775
interactions $\gamma + p \to p + \text{rho}^0$, vector dominance diffractive model for forward, 24:8603
interactions $\gamma + p \to p + V$ ($V = \text{rho}^0$, ω, and phi), Regge pole description of, 23:5562
interactions $\gamma + p \to p +$ vector meson, analysis of polarized, 24:18117
interactions $\gamma + p \to p +$ vector meson, nearest-singularity model for, 21:42296
interactions $\gamma + p \to p +$ vector mesons, analysis of production amplitude from density-matrix elements in polarized, (T), 24:49384
interactions $\gamma + p \to p + W + \text{anti } W$, analytical expression for cross section of, (T), 22:44351(T) (ANL-Trans-649)
interactions $\gamma + p \to p + X^0$ at 0.3 to 5.8 GeV, cross sections for, (E), 23:5521
interactions $\gamma + p \to p + X^0$ up to 5.8 GeV, (E), 21:9690
interactions $\gamma + p \to p(n) + \pi^0(\pi^+)$, review of coupling parameters for, (E/T), 25:30797
interactions $\gamma + p \to \text{phi} + p$ at 14 and 16 GeV, spectrometer study of upper limit for, (E), 22:24515
interactions $\gamma + p \to \text{phi} + p$ at 3 to 18 GeV, SU(6)/sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \to \text{phi} + p$ at 9 to 15 GeV/c from electron reactions with beryllium, upper limit on cross section for diffraction, (E/T), 21:44304
interactions $\gamma + p \to \text{phi} + p$ at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \to \text{phi} + p$, Cheng—Wu picture for, (T), 25:9716
interactions $\gamma + p \to \text{phi} + p$, determination of Pomeranchuk trajectory slope from, (E/T), 24:30487
interactions $\gamma + p \to \text{phi} + p$, phi form factors from Chou—Yang model for, 23:23413
interactions $\gamma + p \to \text{phi} + p$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \to \text{phi} + p$, slope of forward differential cross section for, (T), 25:1460
interactions $\gamma + p \to \text{phi} + p$, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \to \text{phi} + p$, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \to \text{phi} + p$, tests of Frautschi—Margolis model for multiple Pomeron exchange in $\text{phi} + p \to \text{phi} + p$ interactions from, (T), 24:52034
interactions $\gamma + p \to \text{phi} + p$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \to \text{phi}^0 + p$ at 9 to 16 GeV/c, modified vector-dominance model for cross sections for, 22:50335
interactions $\gamma + p \to \text{phi}^0 + p$, $\text{phi}^0 \to K^+ + K^-$ above 50 GeV/c, proposed experiment on, (E), 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \to \pi + \Delta$ in Regge pole model, π conspiracy in, 22:39369
interactions $\gamma + p \to \pi + \Delta$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \to \pi + N$, evaluation of dispersion relations for determining amplitudes of π-production, 21:37742
interactions $\gamma + p \to \pi + N$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \to \pi + N^*$, tests of current algebra and PCAC hypothesis in, 21:18999
interactions $\gamma + p \to \pi + p$, contribution of Mandelstam branch cuts from Reggeon exchange to, (T), 22:3455
interactions $\gamma + p \to \pi^0 + \text{eta}^0 + p$ at 1.465 to 1.815 GeV, cross sections for, (E), 25:14522
interactions $\gamma + p \to \pi^0 + n$ in energy region below first resonance, multipole analysis of, 22:26604
interactions $\gamma + p \to \pi^0 + p$ at 0.65 to 1.375 GeV, counter—spark chamber system study of recoil proton polarization in, (E), 25:17356
interactions $\gamma + p \to \pi^0 + p$ at 0.8 to 5.5 GeV, cross sections for π^0 production in backward direction in, (E), 22:11571
interactions $\gamma + p \to \pi^0 + p$ at 0.8 to 5.5 GeV, scintillation counter study of resonance production from, (E), 22:13633 (DESY-67/36)
interactions $\gamma + p \to \pi^0 + p$ at 1200 to 1800 MeV, spark chamber study of recoil proton polarization from, (E), 25:14516
interactions $\gamma + p \to \pi^0 + p$ at 180 to 470 MeV, use of fixed-t dispersion relations for, 22:24603
interactions $\gamma + p \to \pi^0 + p$ at 2.0 to 5.0 GeV, scintillation counter study of differential cross sections for, 21:27295
interactions $\gamma + p \to \pi^0 + p$ at 200 to 440 MeV, differential cross sections for, (E), 24:49303
interactions $\gamma + p \to \pi^0 + p$ at 220 to 400 MeV at 70 to 175°, differential cross sections for, (E), 25:33523
interactions $\gamma + p \to \pi^0 + p$ at 230 to 380 MeV, asymmetry of cross sections for polarized, (E), 24:3497
interactions $\gamma + p \to \pi^0 + p$ at 230 to 380 MeV, Cherenkov and scintillation counter study of cross section asymmetry in, (E), 23:23324 (LNF-69/3)
interactions $\gamma + p \to \pi^0 + p$ at 240 to 420 MeV, polarization of recoil protons from, (E), 22:29615
interactions $\gamma + p \to \pi^0 + p$ at 280 to 600 MeV, asymmetry ratio for, (E), 24:49300 (LNF-70/39)
interactions $\gamma + p \to \pi^0 + p$ at 3 GeV, asymmetry in cross sections for, (E), 23:44583
interactions $\gamma + p \to \pi^0 + p$ at 3 GeV, model independent analysis for separation between exchange of natural and unnatural parity in, (T), 25:53184
interactions $\gamma + p \to \pi^0 + p$ at 3 to 16 GeV, Regge-pole model with absorptive corrections for, 23:46647
interactions $\gamma + p \to \pi^0 + p$ at 300 to 850 MeV in first and second resonance region, (T), 21:46520
interactions $\gamma + p \to \pi^0 + p$ at 4 GeV, cross sections relative to $\gamma + n \to \pi^0 + n$ interactions, (E), 25:59243
interactions $\gamma + p \to \pi^0 + p$ at 4 to 15 GeV, model of Regge-pole exchange with cut interference for, (E/T), 24:37709
interactions $\gamma + p \to \pi^0 + p$ at 4 to 18 GeV, cross sections for, (E), 24:51904 (SLAC-124)
interactions $\gamma + p \to \pi^0 + p$ at 4 to 18 GeV, spectrometer study of energy dependence of cross sections for, (E), 25:43529
interactions $\gamma + p \to \pi^0 + p$ at 400 to 800 MeV, search for resonant P_{11} state in differential cross sections for, 21:37663
interactions $\gamma + p \to \pi^0 + p$ at 5 GeV/c, polarized differential cross sections for, (T), 22:46458
interactions $\gamma + p \to \pi^0 + p$ at 5.0 to 17.8 GeV, differential cross sections for, (E), 25:14524
interactions $\gamma + p \to \pi^0 + p$ at 500 to 1000 MeV, recoil proton polarization from, 22:26549
interactions $\gamma + p \to \pi^0 + p$ at 535 to 850 MeV, analysis of π production in second resonance region in, (T), 22:5537
interactions $\gamma + p \to \pi^0 + p$ at 6 GeV, spectrometer and Cherenkov counter study of asymmetry in, (E), 25:12072
interactions $\gamma + p \to \pi^0 + p$ at 6 to 16 GeV, cross sections for, (E), 22:41726
interactions $\gamma + p \to \pi^0 + p$ at 6 to 18 GeV, absorptive Regge cut models for phenomenology of amplitude of backward, 23:51941
interactions $\gamma + p \to \pi^0 + p$ at 6 to 18 GeV, cross sections for backward, (E), 23:49031
interactions $\gamma + p \to \pi^0 + p$ at 6 to 18 GeV, differential cross sections for backward, (E), 25:12069
interactions $\gamma + p \to \pi^0 + p$ at 600 to 1200 MeV, differential cross sections for, (E), 21:18884
interactions $\gamma + p \to \pi^0 + p$ at 600 to 1200 MeV, scintillation counter telescope study of differential cross sections for, 21:37706
interactions $\gamma + p \to \pi^0 + p$ at 650 to 1750 MeV, differential cross sections for, (E), 22:48210
interactions $\gamma + p \to \pi^0 + p$ at 650 to 1750 MeV, differential cross sections for π^0 production in backward, (E), 23:13022
interactions $\gamma + p \to \pi^0 + p$ at 911 to 1390 MeV, Cherenkov counter study of cross sections for, (E), 21:46462
interactions $\gamma + p \to \pi^0 + p$ at high energies and small momentum transfers, poles, cuts, and SU(3) symmetry for, 24:21952 (ITF-70-1)
interactions $\gamma + p \to \pi^0 + p$ at high energies in Regge-pole model, inconsistency of crossover phenomena with, (T), 22:3310
interactions $\gamma + p \to \pi^0 + p$ at high energies, baryon Regge-exchange model for backward, 25:1446
interactions $\gamma + p \to \pi^0 + p$ at high energies, model for, 23:32658
interactions $\gamma + p \to \pi^0 + p$ at low energies, ω and B exchange in, 22:24602
interactions $\gamma + p \to \pi^0 + p$ below 450 MeV, energy-dependent multipole analysis of, 25:45697
interactions $\gamma + p \to \pi^0 + p$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \to \pi^0 + p$ in Regge pole model, helicity amplitudes for, 21:37751
interactions $\gamma + p \to \pi^0 + p$ in symmetric quark model, baryon resonance contribution to differential cross sections for, 23:27779
interactions $\gamma + p \to \pi^0 + p$ to 1.2 GeV, helicity-amplitude formalism for analysis of, 23:42617
interactions $\gamma + p \to \pi^0 + p$ up to 1.2 GeV, isobar model for analysis of π^0 production in, 23:32646 (NP-17842)
interactions $\gamma + p \to \pi^0 + p$, coherent-droplet model with long-range π exchange for, (T), 22:9539
interactions $\gamma + p \to \pi^0 + p$, cusp effect of eta on, 21:21157
interactions $\gamma + p \to \pi^0 + p$, differential cross sections at threshold for, (T), 23:39648
interactions $\gamma + p \to \pi^0 + p$, equivalent experimental set ups for polarization measurements in, (T), 25:53077
interactions $\gamma + p \to \pi^0 + p$, evaluation of multipoles for, (T), 23:16948
interactions $\gamma + p \to \pi^0 + p$, low-energy theorem from current algebra for amplitude of, 22:46363
interactions $\gamma + p \to \pi^0 + p$, multipole amplitudes and absolute cross sections for backward, (E), 25:38637
interactions $\gamma + p \to \pi^0 + p$, multipole calculations of cross sections for, 24:52031
interactions $\gamma + p \to \pi^0 + p$, nucleon trajectory degeneracy in three-pole exchange model for backward, 23:49090
interactions $\gamma + p \to \pi^0 + p$, one-particle exchange model for, 21:40177
interactions $\gamma + p \to \pi^0 + p$, peripheral model predictions for cross sections for, (E/T), 24:1553
interactions $\gamma + p \to \pi^0 + p$, $\pi^0 \to \gamma + \gamma$, total-absorption lead glass Cherenkov detector for studying, 22:371
interactions $\gamma + p \to \pi^0 + p$, quark model calculations of resonance contributions to cross sections for, (T), 24:3580
interactions $\gamma + p \to \pi^0 + p$, ratio of amplitudes with $\pi + N$ amplitudes for, 21:37747
interactions $\gamma + p \to \pi^0 + p$, Regge cut model for, 24:3588
interactions $\gamma + p \to \pi^0 + p$, Regge cut models for analysis of differential cross sections for, 24:3579
interactions $\gamma + p \to \pi^0 + p$, Regge exchange models for relations among residue functions and differential cross sections for, (T), 25:1461
interactions $\gamma + p \to \pi^0 + p$, Regge pole absorption theory for dip structure mechanism for ratio of π^0 production in $\gamma + n \to \pi^0 + n$ interactions to π^0 production in, (T), 25:53185
interactions $\gamma + p \to \pi^0 + p$, Regge pole model with diffractive correction for analysis of, (T), 24:47409
interactions $\gamma + p \to \pi^0 + p$, Regge pole model with flat trajectories for, 24:49493
interactions $\gamma + p \to \pi^0 + p$, Reggeized absorption model fits to, 25:56458
interactions $\gamma + p \to \pi^0 + p$, Reggeized absorptive cuts in, (T), 24:42919
interactions $\gamma + p \to \pi^0 + p$, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \to \pi^0 + p$, review of N^* production in, (E/T), 23:49085
interactions $\gamma + p \to \pi^0 + p$, review of pion exchange in, 22:24684
interactions $\gamma + p \to \pi^0 + p$, review of resonance production in, 21:29481
interactions $\gamma + p \to \pi^0 + p$, sign of $\pi^0 \to \gamma + \gamma$ decay amplitude from, (T), 24:3564
interactions $\gamma + p \to \pi^0 + p$, vector dominance hypothesis and Regge pole exchange for, 22:48273
interactions $\gamma + p \to \pi^0 + \pi^0 + p$, hydrogen target for studying, 23:25726 (LNF-68/70)
interactions $\gamma + p \to \pi^0\ (\text{eta}) + p$, duality and meson trajectories in Regge cut model for, (T), 25:36441
interactions $\gamma + p \to \pi^0\ (\text{eta}) + p$, mixing angle of isosinglets eta_1 and eta_8 in, (T), 24:35623 (ITF-70-19)
interactions $\gamma + p \to \pi^0\ (\text{eta}) + p$, strong absorptive Regge-cut model for, (T), 25:7597
interactions $\gamma + p \to \pi^0(\text{eta}^0) + p$ at high energies, peripheral model predictions for cross sections of, 23:51878 (DESY-69/31)
interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$ at 6 to 18 GeV, magnetic spectrometer study of differential cross sections for, (E), 24:42862 (SLAC-109)
interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$ at high energies, review of backward, (E/T), 25:53029
interactions $\gamma + p \to \pi^0(\pi^+) + p(n)$, model with poles and cuts for mixing angles of eta_1 and eta_8 isosinglets in, (T), 25:14629
interactions $\gamma + p \to \pi^- + \Delta(1236)$ at 0.9 to 1.3 GeV, scintillation and Cherenkov counter study of cross sections for, (E), 22:3247
interactions $\gamma + p \to \pi^- + \Delta(1236)$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \to \pi^- + \Delta^{++}$ at 2.8 and 4.7 GeV, quark-model predictions for $\Delta(1236)$ decay angular distributions in, (E/T), 25:40932
interactions $\gamma + p \to \pi^- + \Delta^{++}$ at 5.5 GeV, spectrometer study of Δ exchange in backward, (E), 23:49030
interactions $\gamma + p \to \pi^- + \Delta^{++}$ in strong-cut Reggeized model, 25:14603
interactions $\gamma + p \to \pi^- + \Delta^{++}$, form factor in gauge-invariant OPE model for, 23:13056
interactions $\gamma + p \to \pi^- + \Delta^{++}$, low t theorem formulation by minimal gauge invariant extension of π exchange in, 24:26391 (CALT-68-245)
interactions $\gamma + p \to \pi^- + \Delta^{++}$, test of vector-dominance assumption for, 23:8772
interactions $\gamma + p \to \pi^- + \Delta^{++}$, vector dominance model predictions for $\Delta(1236)$ and interference between rho and ω production in amplitudes of, 23:51899
interactions $\gamma + p \to \pi^- + \Delta^{++}$, vector-dominance-model relation between $\pi^+ + p \to \text{rho} + \Delta^{++}$ and $\pi^+ + p \to \omega + \Delta^{++}$ interactions and, 24:12976
interactions $\gamma + p \to \pi^- + \Delta^{++}(1236)$ at 5 to 16 GeV, differential cross sections for, (E), 23:10737
interactions $\gamma + p \to \pi^+ + \Delta^{++}(1236)$ using polarized photons, $\pi\pi$ production in, (E), 22:39321

interactions $\gamma + p \rightarrow \pi^- + \Delta^{++}(1236)$, π conspiracy and factorization in, 24:49393
interactions $\gamma + p \rightarrow \pi^- + \Delta^{++}(1236)$, quark model for $\Delta^{++}(1236)$ decay angular distributions, cross sections, and asymmetry parameter for, 24:6722
interactions $\gamma + p \rightarrow \pi^- + \Delta^{++}(1236)$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 0.01 to 2 $(\text{GeV}/c)^2$, spectrometer study of forward peak in, (E), 22:7426
interactions $\gamma + p \rightarrow \pi^+ + n$ at 0.450 to 3 GeV, resonance structure of cross sections for, (E), 25:12067 (LAL-1239)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 0.9 to 3.2 GeV, cross sections for backward T^+ production in, (E), 22:48209
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1 to 3 GeV, cross sections for background production of π^+ in, (E), 24:37688
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1 to 5 GeV, absorption correction in DWBA approximation for, 21:40178
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1.2 to 3 GeV, resonance structure in cross sections for, (E), 21:27290 (NP-16741)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1.2 to 3.0 GeV, $N_3^*(1920)$ and $N_1^*(2190)$ production from, (E), 21:18878 (DESY-67/3)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1.2 to 3.0 GeV, resonance structure in cross sections for, (E), 21:18881
interactions $\gamma + p \rightarrow \pi^+ + n$ at 1.2 to 3.0 GeV, resonance production in, (E), 21:27289 (NP-16737)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 140 to 700 MeV, cross sections for, (E), 21:2351
interactions $\gamma + p \rightarrow \pi^+ + n$ at 165 to 200 MeV, angular and energy dependence of cross sections for, (E), 23:30693(T) (CERN-Trans-68-18)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 180 to 470 MeV, use of fixed-t dispersion relations for, 22:24603
interactions $\gamma + p \rightarrow \pi^+ + n$ at 180 to 500 MeV, π^+ angular distribution from, (T), 22:17907
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2 GeV, absorption corrections in, 22:13697
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2 to 5 GeV, elastic π^+ production from, (E), 21:17024
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.5 to 5 GeV, differential cross sections for polarized, (E/T), 23:25495
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.5 to 5 GeV, magnetic spectrometer study of differential cross sections for, (E) , 23:25492 (DESY-69/5)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.6 to 16 GeV with linearly polarized photons, spin—parity contributions to cross sections for, (T), 25:5321 (DEMO-70/1)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.6 to 4.17 GeV, O(3, 1) symmetry for, 23:32654
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.6 to 6 GeV in deuterium bubble chamber, (E), 22:34827 (DESY-68/22)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 2.7 and 4.9 GeV, forward peak in cross section for, (E), 22:13632 (DESY-67/35)
interactions $\gamma + p \rightarrow \pi^+ + N$ at 2.8 to 9.8 GeV, cross sections in u-channel for, (E), 24:10655
interactions $\gamma + p \rightarrow \pi^+ + n$ at 210 to 270 MeV at 51 to 134°, asymmetry of, (E), 25:45636
interactions $\gamma + p \rightarrow \pi^+ + n$ at 229 to 258 MeV, symmetry measurements for polarized, (E), 24:12925
interactions $\gamma + p \rightarrow \pi^+ + n$ at 230 MeV, π^+ lifetime determination from (E), 21:11748
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3 GeV/c, violation of quark model sum rule in, (T), 22:22363
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.0 GeV, asymmetry in, (E), 24:51889
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.0 to 3.7 GeV, magnetic spectrometer and scintillation counter study of resonance production in, 21:31516
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 and 5 GeV, cross section for π^+ production in, (E), 22:39237
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 and 5.0 GeV, Cherenkov counter study of differential cross sections for, (E), 22:3239
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 GeV at small momentum transfers, cross section asymmetry for, (E), 25:7527 (DESY-70/54)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 GeV at small momentum transfers, cross section asymmetry for, (E), 25:9624
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 GeV, π^+ production amplitudes in, (E/T), 23:13020
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 GeV, test of vector dominance model from, (E), 23:5514
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 to 18 GeV, generalized Veneziano model for, 25:33636
interactions $\gamma + p \rightarrow \pi^+ + n$ at 3.4 to 4.0 GeV, differential cross sections for, (E/T), 21:29423
interactions $\gamma + p \rightarrow \pi^+ + n$ at 300 to 1200 MeV, differential cross sections for, (E), 25:40859
interactions $\gamma + p \rightarrow \pi^+ + n$ at 300 to 750 MeV, differential cross sections for, (E), 22:46313
interactions $\gamma + p \rightarrow \pi^+ + n$ at 300 to 750 MeV, magnetic spectrometer study of, π^+ angular distributions from, (E), 21:29426
interactions $\gamma + p \rightarrow \pi^+ + n$ at 300 to 750 MeV, magnetic spectrometer and counter telescope study of differential cross section of, (E), 22:24514 (LAL-1186)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 390 MeV, polarization of recoil neutron from, (E), 22:26555
interactions $\gamma + p \rightarrow \pi^+ + n$ at 4 and 8 GeV/c, vector-dominance model comparison of $\pi^- + p \rightarrow \text{rho}^0 + n$ and, 22:34916
interactions $\gamma + p \rightarrow \pi^+ + n$ at 4.3 to 9.8 GeV at large angles, Regge pole theory for differential cross sections of, (T), 25:14598
interactions $\gamma + p \rightarrow \pi^+ + n$ at 4.3 to 9.8 GeV/c, absorptive Regge cut models for phenomenology of amplitude of backward, 23:51941
interactions $\gamma + p \rightarrow \pi^+ + n$ at 4.3, 6.7, and 9.8 GeV, angular distribution of π^+ production via u channel using Δ trajectory in, (E/T), 23:8809
interactions $\gamma + p \rightarrow \pi^+ + n$ at 5 and 16 GeV, asymmetry of cross section for polarized, (E), 24:47360
interactions $\gamma + p \rightarrow \pi^+ + n$ at 5 and 16 GeV, cross section asymmetry for, (E), 25:5251 (UCRL-19897)
interactions $\gamma + p \rightarrow \pi^+ + n$ at 5 and 16 GeV, spectrometer study of cross section asymmetry for, (E), 25:45632
interactions $\gamma + p \rightarrow \pi^+ + n$ at 5 GeV/c, polarized differential cross sections for, (T), 22:46458
interactions $\gamma + p \rightarrow \pi^+ + n$ at 5 to 16 GeV, differential cross sections for π^+ production in, (E), 22:13640
interactions $\gamma + p \rightarrow \pi^+ + n$ at 500 to 1350 MeV, differential cross section fro, (E), 21:25223
interactions $\gamma + p \rightarrow \pi^+ + n$ at 500 to 1350 MeV, magnetic spectrometer study of eta production from, (E), 22:3246
interactions $\gamma + p \rightarrow \pi^+ + n$ at 535 to 850 MeV, analysis of π production in second resonance region in, (T), 22:5537
interactions $\gamma + p \rightarrow \pi^+ + n$ at 589 to 1269 MeV, magnetic spectrometer study of differential cross sections for, (E), 21:37661
interactions $\gamma + p \rightarrow \pi^+ + n$ at 589 to 1269 MeV, magnetic spectrometer study of, (E), 21:42245
interactions $\gamma + p \rightarrow \pi^+ + n$ at 600 to 1700 MeV, cross section for forward π^+ production in, (E), 24:21911
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies in Regge pole model, 23:32664
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, absorption effects in, (T), 22:26601
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, baryon Regge-exchange model for backward, 25:1446
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, cross sections for, (E), 22:44308
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, predictions of finite-energy sum rules for, (E/T), 25:22732
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, predictions for target asymmetry in, (T), 25:47775 (DESY-71/27)
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, quantum number for Regge trajectory family for, (T), 24:5348
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, Regge theory and SU(3) representation mixing for, 23:44657 (IS-T-291)
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, Reggeization of amplitudes for, 23:1643
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, review of Regge pole theory for, 24:5310
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, review on, 23:27767 (SLAC-PUB-589)
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies, rho exchange for absorption effects in, 22:13692 (DESY-67/37)
interactions $\gamma + p \rightarrow \pi^+ + n$ below 16 GeV, vector dominance model for comparison with $\pi^- + p \rightarrow \text{rho}^0 + n$ interactions below 16 GeV, 22:29652 (DESY-68/6)
interactions $\gamma + p \rightarrow \pi^+ + n$ below 230 MeV, (E), 22:39342
interactions $\gamma + p \rightarrow \pi^+ + n$ below 450 MeV, energy-dependent multipole analysis of, 25:45697
interactions $\gamma + p \rightarrow \pi^+ + n$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \rightarrow \pi^+ + n$ in energy region below first resonance, multipole analysis of, 22:26604
interactions $\gamma + p \rightarrow \pi^+ + n$ in first resonance region, angular distribution for, (T), 23:30732
interactions $\gamma + p \rightarrow \pi^+ + n$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \rightarrow \pi^+ + n$ in Regge pole model, π conspiracy in, 22:39369
interactions $\gamma + p \rightarrow \pi^+ + n$ in strong-cut Reggeized model, 25:14603
interactions $\gamma + p \rightarrow \pi^+ + n$ in Veneziano model, cross sections for, 25:9717
interactions $\gamma + p \rightarrow \pi^+ + n$ interactions at 227 to 260 MeV and 51 to 146°, symmetry ratios for, (E), 25:19889
interactions $\gamma + p \rightarrow \pi^+ + n$ interactions at 5 to 16 GeV, cross sections for, (E), 23:49032
interactions $\gamma + p \rightarrow \pi^+ + n$ near threshold, divergence conditions for, (T), 22:20185
interactions $\gamma + p \rightarrow \pi^+ + n$ to 1.2 GeV, helicity-amplitude formalism for analysis of, (E/T), 23:42617
interactions $\gamma + p \rightarrow \pi^+ + n$ using polarized γ, discrepancy between vector dominance model and π production in, (T), 23:15017
interactions $\gamma + p \rightarrow \pi^+ + n$, coherent-droplet model with long-range π exchange for, (T), 22:9539
interactions $\gamma + p \rightarrow \pi^+ + n$, comparison of u-channel $\pi^- + p \rightarrow \text{rho}^0 + n$ interaction with isovector part of, 24:52010
interactions $\gamma + p \rightarrow \pi^+ + n$, conspiracy and evasion in, 22:37113
interactions $\gamma + p \rightarrow \pi^+ + n$, differential cross sections at threshold for, (T), 23:39648
interactions $\gamma + p \rightarrow \pi^+ + n$, diffractive Regge pole model and conspiracy relation for, (T), 24:8643
interactions $\gamma + p \rightarrow \pi^+ + n$, dispersion relation calculation of phase of forward amplitude of, 25:50100
interactions $\gamma + p \rightarrow \pi^+ + n$, dispersion theory model for analysis of exotic currents in, 25:40934
interactions $\gamma + p \rightarrow \pi^+ + n$, divergence conditions for, 21:33640 (JINR-E2-3364)
interactions $\gamma + p \rightarrow \pi^+ + n$, double-Regge-exchange conspiracy for π^+ production in, 22:34928
interactions $\gamma + p \rightarrow \pi^+ + n$, evaluation of multipoles for, (T), 23:16948
interactions $\gamma + p \rightarrow \pi^+ + n$, fixed poles in model for differential cross sections and polarization in, (T), 24:49404
interactions $\gamma + p \rightarrow \pi^+ + n$, formulas for amplitudes from experimental data for, (T), 25:22735
interactions $\gamma + p \rightarrow \pi^+ + n$, Lorentz invariance in Reggeization of π trajectory in, 22:39336
interactions $\gamma + p \rightarrow \pi^+ + n$, model for Regge cut contributions to, 23:42778
interactions $\gamma + p \rightarrow \pi^+ + n$, multipole calculations of cross sections for, 24:52031
interactions $\gamma + p \rightarrow \pi^+ + n$, $N^* \rightarrow N + \gamma$ transition magnetic moment from, 21:27335
interactions $\gamma + p \rightarrow \pi^+ + n$, nucleon trajectory degeneracy in three-pole exchange model for backward, 23:49090
interactions $\gamma + p \rightarrow \pi^+ + n$, one-particle exchange model for, 21:40177
interactions $\gamma + p \rightarrow \pi^+ + n$, operators at t = +-infinity in current algebra for, 21:4015
interactions $\gamma + p \rightarrow \pi^+ + n$, peripheral model for test of vector dominance in, 24:52012
interactions $\gamma + p \rightarrow \pi^+ + n$, pseudomodel predictions for differential cross sections for polarized, 25:59362
interactions $\gamma + p \rightarrow \pi^+ + n$, π conspiracy in, 23:8762 (INP-622(Vol.1), pp 28-38)
interactions $\gamma + p \rightarrow \pi^+ + n$, ratio of amplitudes with $\pi + N$ amplitudes for, 21:37747
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge cut model for, 24:3588
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge exchange models for relations among residue functions for, (T), 25:1461
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge pole model for, 21:21165
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge pole model with diffractive correction for, (T), 24:42903
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge pole model with diffractive correction for cross section ratios with $\gamma + n \rightarrow \pi^- + p$ interactions for, 24:1549
interactions $\gamma + p \rightarrow \pi^+ + n$, Regge-pole model for pion-exchange, 22:7494
interactions $\gamma + p \rightarrow \pi^+ + n$, Reggeized U(6) x U(6) x O(3) absorptive peripheral model for, 24:37701
interactions $\gamma + p \rightarrow \pi^+ + n$, review of experimental data on, 23:10734 (SLAC-PUB-501)
interactions $\gamma + p \rightarrow \pi^+ + n$, review of experiments and theory for, 22:11609 (NP-17221)
interactions $\gamma + p \rightarrow \pi^+ + n$, review of N^* production in, (E/T), 23:49085
interactions $\gamma + p \rightarrow \pi^+ + n$, review of pion exchange in, 22:24684
interactions $\gamma + p \rightarrow \pi^+ + n$, soft pion theory in current algebra for, 23:49117
interactions $\gamma + p \rightarrow \pi^+ + n$, strong absorptive Regge-cut model for, (T), 25:7597
interactions $\gamma + p \rightarrow \pi^+ + n$, strong-absorption Regge-cut model for, 25:47783
interactions $\gamma + p \rightarrow \pi^+ + n$, test of vector dominance model from, 23:5569
interactions $\gamma + p \rightarrow \pi^+ + n$, tests of vector-meson dominance relations in electric Born model for, 23:49094
interactions $\gamma + p \rightarrow \pi^+ + n$, vector dominance and quark model relation for polarization in, 22:41769 (DESY-68/33)
interactions $\gamma + p \rightarrow \pi^+ + n$, vector dominance discrepancy in relation with $\pi^- + p \rightarrow \text{rho}^0 + n$ interactions for, 23:23408
interactions $\gamma + p \rightarrow \pi^+ + n$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \rightarrow \pi^+ + n$, vector meson dominance in, 24:18137
interactions $\gamma + p \rightarrow \pi^+ + n$, vector-meson dominance analysis of, 22:26664
interactions $\gamma + p \rightarrow \pi^+ + n$, Veneziano model for cross sections, asymmetry ratios, and baryon residues in, (T), 25:40926
interactions $\gamma + p \rightarrow \pi^- + N^*$, peripheral model for test of vector dominance in, 24:52012
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ above 5 GeV, non-Regge behavior in, 23:44624
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ at 3 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$ at high energies, cross sections for, (E), 22:44308
interactions $\gamma + p \rightarrow \pi^- + N^{*++}$, vector dominance model predictions for, (T), 23:42596
interactions $\gamma + p \rightarrow \pi^+ + N(1520)$, low-t theorems for forward π^+ production in, (T), 25:14609
interactions $\gamma + p \rightarrow \pi^+ + n(\Delta^0)$ at 12 GeV, asymmetry in, (E), 25:40863
interactions $\gamma + p \rightarrow \pi^+ + p$ at 300 to 1200 MeV, resonance structures in, (E), 25:30774 (INSJ-126)
interactions $\gamma + p \rightarrow \pi^- + p$ at high energies, predictions of finite-energy sum rules for, (E/T), 25:22732
interactions $\gamma + p \rightarrow \pi^+ + \pi^0 + n$ at 140 to 700 MeV, cross sections for, (E), 21:2351
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.85 to 1.21 GeV, differential cross sections for, (E), 22:46315
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.9 to 1.3 GeV, magnetic spectrometer study of cross sections for $\pi^-\pi^+$ and $N^*(1238)$ production in, 21:42243
interactions $\gamma + p \rightarrow \pi^- + \pi^+ + p$ at 0.9 to 1.3 GeV, scintillation and Cherenkov counter study of cross sections for, (E), 22:3247
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 1.4 to 3.3 GeV, correlation between photon polarization and rho production and decay in, (E), 24:32953 (DESY-70/19)
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 16 GeV, cross sections for rho^0 production in, (E), 22:48212
interactions $\gamma + p \rightarrow \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in bubble chamber, cross sections, rho^0 production, $\text{rho}^0 - \omega$ interference, and $\Delta^{++}(1236)$ production in, (E) , 25:25282 (UCRL-19890)

interactions $\gamma + p \to \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, rho^0—ω interference parameters in diffractive meson production in, (E), 25:1368 (UCRL-19753)
interactions $\gamma + p \to \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV in hydrogen bubble chamber, conservation of s-channel helicity and natural parity exchange in rho^0 production in, (E), 25:17359
interactions $\gamma + p \to \pi^+ + \pi^- + p$ at 2.8 and 4.7 GeV, rho^0—ω^0 interference in, (E), 25:40862
interactions $\gamma + p \to \pi^+ + \pi^- + p$ at high energies, diffraction—dissociation model for rho production in, (T), 24:42898 (DESY-70/23)
interactions $\gamma + p \to \pi^+ + \pi^- + p$ at high energies, diffraction-dissociation model for, 25:22747
interactions $\gamma + p \to \pi^+ + \pi^- + p$ at high energies, test of center-of-mass helicity conservation in diffractive, (T), 24:51986
interactions $\gamma + p \to \pi^+ + \pi^- + p$ below 1 GeV, invariant-mass and angular distributions for $P_{11}(1400)$ production in, (E), 25:22662
interactions $\gamma + p \to \pi^- + \pi^+ + p$ below 750 MeV, counter and spark chamber study of Δ (1236) production in, (E), 22:24513 (INSJ-107)
interactions $\gamma + p \to \pi^+ + \pi^- + p$, diffraction dissociation mechanism for, (T), 25:3320
interactions $\gamma + p \to \pi^+ + \pi^- + p$, diffraction-dissociation, dual-resonance, and interference models for rho production in, 25:5323 (DNPL/R-7, pp 3-28)
interactions $\gamma + p \to \pi^+ + \pi^- + p$, five-body Veneziano amplitude for diffractive, 25:12152
interactions $\gamma + p \to \pi^+ + \pi^- + p$, mass dependence of momentum transfer distributions in diffractive, (T), 24:42905
interactions $\gamma + p \to \pi^- + \pi^+ + p$, yield measurements for, 21:33963(R) (NP-16498)
interactions $\gamma + p \to \pi^+ + \pi^- + \pi^0 + p$ at 2 to 16 GeV, cross sections for phi production in, (E), 23:21038
interactions $\gamma + p \to \pi^+(\pi^0) + n(p)$ below 1 GeV, review of, (E/T), 23:39598
interactions $\gamma + p \to \pi^+(\pi^0) + n(p)$ below 500 MeV, differential cross sections, asymmetry ratios, and recoil-nucleon polarization for, (T), 24:37682
interactions $\gamma + p \to \pi^+(\pi^0) + n(p)$ from threshold to 6 GeV/c in hydrogen bubble chamber, differential and total cross sections for, (E), 24:3559
interactions $\gamma + p \to \pi^+(\pi^0) + n(p)$ in second resonance region, fixed-t dispersion relations for, (T), 25:12146
interactions $\gamma + p \to \pi^-(\pi^+) + \Delta^{++}(1236)(\Delta^0(1236))$ at 16 GeV, differential cross sections for, (E), 24:45413
interactions $\gamma + p \to \text{rho} + N$ at high energies, cross sections for diffractive, (T), 25:22737
interactions $\gamma + p \to \text{rho} + p$ at 4 to 8.8 GeV, dipion mass spectra and angular distributions for, (E), 25:45631
interactions $\gamma + p \to \text{rho} + p$ at high energies, rho matter density in optical model for, (T), 25:22820
interactions $\gamma + p \to \text{rho} + p$ at very high energies, integrated cross sections, angular distributions, and pionization in diffractive, (T), 25:53050 (DESY-71/36)
interactions $\gamma + p \to \text{rho} + p$, cross sections for, 22:9554
interactions $\gamma + p \to \text{rho} + p$, optical theorem for, 22:41768 (DESY-68/28)
interactions $\gamma + p \to \text{rho} + p$, optical theorem for lower limit on cross sections for, 22:44354
interactions $\gamma + p \to \text{rho} + p$, Regge pole model with factorization for, 24:10707
interactions $\gamma + p \to \text{rho} + p$, rho form factor from Chou—Yang model for, 23:23413
interactions $\gamma + p \to \text{rho} + p$, two-pion exchange contributions to absorptive amplitude for, 22:3424
interactions $\gamma + p \to \text{rho} + p$, use for measuring rho beta decay coupling constant, 23:5519
interactions $\gamma + p \to \text{rho}(\omega) + p$, review of, (E), 25:25280 (DESY-70/64)
interactions $\gamma + p \to \text{rho}^0 + p$, s-channel helicity conservation in, (T), 25:47794
interactions $\gamma + p \to \text{rho}^0 + N + m\pi$ at 5 to 100 GeV, diffractive rho—N* production and double peripheral processes with Pomeron and π exchange in, (T), 25:3308 (DESY-70/45)
interactions $\gamma + p \to \text{rho}^0 + N^{*+}$, nearest-singularity model for, 21:42296
interactions $\gamma + p \to \text{rho}^0 + p \to \pi^+ + \pi^- + p$ at 2.0 to 2.5 GeV, (E), 23:7073 (DESY-68/50)
interactions $\gamma + p \to \text{rho}^0 + p$ at 14 and 16 GeV, spectrometer study of upper limit for, (E), 22:24515
interactions $\gamma + p \to \text{rho}^0 + p$ at 2 to 20 GeV, Regge pole theory for real part of amplitude for rho + p interactions from cross sections of forward, (T), 25:1538
interactions $\gamma + p \to \text{rho}^0 + p$ at 2.5 to 18 GeV, SU(6) /sub W/ calculations of differential cross sections for, 24:8602
interactions $\gamma + p \to \text{rho}^0 + p$ at 2.8 and 4.7 GeV, S-channel helicity conservation in polarized, 25:14605
interactions $\gamma + p \to \text{rho}^0 + p$ at 3 to 16 GeV, vector dominance for, 23:51898
interactions $\gamma + p \to \text{rho}^0 + p$ at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \to \text{rho}^0 + p$ at 4.4 GeV, two-pion-exchange model predictions for rho decay angular distribution and cross section for, 23:23412
interactions $\gamma + p \to \text{rho}^0 + p$ at high energies, composite hadron models for, 22:5532
interactions $\gamma + p \to \text{rho}^0 + p$ below 6 GeV, models for, 22:22345 (CONF-670923-, pp 337-75)
interactions $\gamma + p \to \text{rho}^0 + p$, C noninvariance in, 21:15285
interactions $\gamma + p \to \text{rho}^0 + p$, Cheng—Wu picture for, (T), 25:9716
interactions $\gamma + p \to \text{rho}^0 + p$, differential cross section from e + p interaction at 4.9 GeV, (E), 22:15716
interactions $\gamma + p \to \text{rho}^0 + p$, impulse approximation and vector dominance hypothesis for differential cross sections of $\text{rho}^0 + p \to \text{rho}^0 + p$ interactions relation with differential cross sections of, (T), 25:53091
interactions $\gamma + p \to \text{rho}^0 + p$, light cone and vector meson dominance in, 25:47781
interactions $\gamma + p \to \text{rho}^0 + p$, N(1680) production in, (T), 23:42594
interactions $\gamma + p \to \text{rho}^0 + p$, nearest-singularity model for, 21:42296
interactions $\gamma + p \to \text{rho}^0 + p$, π-conspiracy and factorization in, 24:15524
interactions $\gamma + p \to \text{rho}^0 + p$, rho mass shift in, 25:3326
interactions $\gamma + p \to \text{rho}^0 + p$, rho $\pi\gamma$ coupling constant from π exchange contribution to, 24:49374
interactions $\gamma + p \to \text{rho}^0 + p$, $\text{rho}^0 \to \pi^+ + \pi^-$ at 1.4 to 3.3 GeV, diffractionlike behavior in, (E), 25:1376
interactions $\gamma + p \to \text{rho}^0 + p$, $\text{rho}^0 \to \pi^+ + \pi^-$ at 50 to 90 GeV/c, proposed experiment on, 24:51885 (TID-25473(Vol.4), pp 139-47)
interactions $\gamma + p \to \text{rho}^0 + p$, rho^0 mass shift and slope of forward differential cross section for, (T), 25:1460
interactions $\gamma + p \to \text{rho}^0 + p$, s-channel helicity conservation in diffraction, 24:24337
interactions $\gamma + p \to \text{rho}^0 + p$, s-channel helicity conservation for diffractive part of, (T), 25:30885
interactions $\gamma + p \to \text{rho}^0 + p$, strong-absorption model for spin independence of, (T), 22:13691 (DESY-67/32)
interactions $\gamma + p \to \text{rho}^0 + p$, SU(6)/sub w/ predictions for, 23:5575
interactions $\gamma + p \to \text{rho}^0 + p$, test of Harari conjecture from cross section for, (T), 24:42908
interactions $\gamma + p \to \text{rho}^0 + p$, vector dominance for total cross sections for, 23:51877 (DESY-69/30)
interactions $\gamma + p \to \text{rho}^0 + p$, vector dominance model for γrho^0 coupling constant from, 23:36870
interactions $\gamma + p \to \text{rho}^0 + p$, vector dominance model for, 21:31553 (DESY-67/13)
interactions $\gamma + p \to \text{rho}^0(\omega) + \Delta(1236)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \to \text{rho}^0(\omega) + N(1470)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \to \text{rho}^0(\omega) + N(1518)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $\gamma + p \to \text{rho}^+ + \Delta^0$ at 4.3 GeV in bubble chamber, width of (rho $\pi\gamma$) from cross sections for, (E), 24:49301
interactions $\gamma + p \to \text{rho}^- + \Delta^{++}$ at 4 to 8 GeV, energy dependence of cross sections for, 25:33610
interactions $\gamma + p \to \text{rho}^+ + N$, nearest-singularity model for, 21:42296
interactions $\gamma + p \to \text{rho}^+ + n$, $\text{rho}^+ \to \pi^+ + \pi^0$, rho$^+$ Regge-trajectory-exchange model for, 22:44360
interactions $\gamma + p \to \text{rho}^+ + N^{*0}$, nearest-singularity model for, 21:42296
interactions $\gamma + p \to \text{rho}^-\ (\text{rho}^0) + \Delta^{++}\ (\Delta^+)$ at 4.3 GeV in bubble chamber, width of (rho $\pi\gamma$) from cross sections for, (E), 24:49301
interactions $\gamma + p \to \Sigma + K$ near threshold, cross sections for, (T), 23:7110
interactions $\gamma + p \to \Sigma^0 + K^+$ at backward angles, anomalous magnetic moment of Σ^0 and Regge pole exchanges in, 24:42900
interactions $\gamma + p \to \Sigma^0 + K^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \to \Sigma^0 + K^+$ in Regge pole model, differential cross sections for, 22:3324
interactions $\gamma + p \to \Sigma^0 + K^+$, SU(3) symmetry and Regge pole model for differential cross section at zero angle, 22:48347
interactions $\gamma + p \to \Sigma^+ + K^0$ at 1.5 GeV, emulsion study of Σ^+ magnetic moment from, 21:31521
interactions $\gamma + p \to \Sigma^+ + K^0$ at 1.5 to 5 GeV, momentum spectra and cross sections for, (E), 25:3248
interactions $\gamma + p \to \Sigma^+ + K^0$ at 1500 MeV, Σ^+ magnetic moment from, (E), 21:15254
interactions $\gamma + p \to \Sigma^+ + K^0$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \to \Sigma^+ + K^0$, dispersion sum rules for Σ^+ magnetic moment from, 22:9537
interactions $\gamma + p \to \Sigma^+ + K^+ + \pi^-$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \to \Sigma^- + K^+ + \pi^+$ below 5.8 GeV in hydrogen bubble chamber, (E), 21:25219 (DESY-67/6)
interactions $\gamma + p \to$ vector meson + N_3^*, quark dissociation model for, 21:27329
interactions $\gamma + p \to$ vector meson + p at 4.3 GeV in bubble chamber, cross sections for, (E), 23:21037
interactions $\gamma + p \to$ vector meson + p at high energies, vector meson dominance and quark model for, 24:49379
interactions $\gamma + p \to$ vector meson + p, cross sections for, (T), 22:46448
interactions $\gamma + p \to$ vector meson + p, model for, 21:21160
interactions $\gamma + p \to$ vector mesons + p Regge-pole model, 24:12972
interactions $\gamma + p \to$ vector mesons + p, π conspiracy and factorization in, 24:49393
interactions $\gamma + p \to$ vector mesons + p, test of tensor meson dominance in SU(3)-symmetry breaking from, 25:33607
interactions $\gamma + p \to Y + K$ at 0.9 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p \to Y^* + K^+$ at 1800 to 2600 MeV, resonance widths and cross sections for, (E), 25:3251
interactions $\gamma + p \to Y_1^{*0} + K^+$ at 1.42 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p \to Y_1^{*+} + K^0$ at 1.42 to 5.8 GeV in hydrogen bubble chamber, cross sections for, (E), 21:27293
interactions $\gamma + p$ above 1.2 GeV, data compilation on cross sections for hadron production in, (E), 25:12066 (DESY-HERA-70-1)
interactions $\gamma + p$ above 2 GeV, review of, 24:21963
interactions $\gamma + p$ above 3 GeV, review of experiments on, 22:22274 (CONF-670923-, pp 309-36)
interactions $\gamma + p$ above 4 GeV, quantum electrodynamics test from wide angle electron pair production from, (E), 23:51839
interactions $\gamma + p$ above meson production threshold, Compton, 23:8774
interactions $\gamma + p$ and $\gamma + n$, dip structure in ratio of π^0 production in, 24:35662
interactions $\gamma + p$ at 0.05 to 5.0 GeV in hydrogen bubble chamber, total cross section for hadron production in, (E), 22:41721 (DESY-68/31)
interactions $\gamma + p$ at 0.3 to 5.8 GeV, N^{*++} (1236) production from, (E), 21:15253 (DESY-66/32)
interactions $\gamma + p$ at 0.3 to 5.8 GeV, resonance meson production from, (E), 21:15253 (DESY-66/32)
interactions $\gamma + p$ at 0.5 and 5.0 GeV, total cross section for hadron production in, (E), 22:50278
interactions $\gamma + p$ at 0.5 to 45 GeV, kinematics tables for, 22:7421 (SLAC-77)
interactions $\gamma + p$ at 1 TeV, current algebra for total cross sections for W^+ boson and hadron production in, (T), 23:51890
interactions $\gamma + p$ at 1.0 to 6.4 GeV, scintillation counter study of total cross sections for hadron production in, (E), 24:40226 (DESY-70/17)
interactions $\gamma + p$ at 1.15 to 6.25 GeV, scintillation counter study of total cross sections for hadron production from, (E), 24:51890
interactions $\gamma + p$ at 1.44 to 4.7 GeV in hydrogen bubble chamber, energy dependence of hadronic total and partial cross sections for, (E), 23:44581
interactions $\gamma + p$ at 1.46 to 6.55 GeV, scintillation counter study of total cross sections for electron pair production in, (E), 24:51890
interactions $\gamma + p$ at 1.5 to 6 GeV, review of strange particle production from, 22:22273 (CONF-670923-, pp 254-69)
interactions $\gamma + p$ at 100 to 250 MeV, triplet production from total absorption cross sections for, 21:37668
interactions $\gamma + p$ at 120 to 280 MeV, analysis of elastic, (E/T), 21:33652
interactions $\gamma + p$ at 1450 and 1525 MeV, cross sections for neutral Y^* resonant states from, 21:27296
interactions $\gamma + p$ at 2 to 16 GeV, production of Δ^{++}, rho, ω, and phi in, (E), 24:28473
interactions $\gamma + p$ at 200 to 440 MeV, differential cross sections for π^0 production in, (E), 24:15448
interactions $\gamma + p$ at 200 to 440 MeV, magnetic spectrometer study of angular distributions and differential cross sections for, (E), 25:45642
interactions $\gamma + p$ at 200 to 450 MeV, π^+ production by linearly polarized, (E), 22:29616
interactions $\gamma + p$ at 220 to 380 MeV, cross section for backward production of π^0 in, (E), 22:11574
interactions $\gamma + p$ at 220 to 425 MeV, differential cross sections for π^+ production in, (E), 24:15447
interactions $\gamma + p$ at 220 to 425 MeV, differential cross sections for, (E), 24:49302
interactions $\gamma + p$ at 275 to 1850 MeV, total cross section for hadron production, 25:25376
interactions $\gamma + p$ at 290 to 550 MeV in hydrogen bubble chamber, π^+ production at 0° and forward angles from, (E), 22:1377
interactions $\gamma + p$ at 3 to 19 GeV, total cross section for hadron production in, 23:25494(R) (UCSB-34-P-135-8)
interactions $\gamma + p$ at 3.5 GeV with linearly polarized photons, rho^0 asymmetry from, (E), 24:40237
interactions $\gamma + p$ at 3.5 GeV, cross section asymmetry and rho^0 decay angular distributions and asymmetry ratio from rho^0 production in, (E), 25:45645
interactions $\gamma + p$ at 3.5 to 7.5 GeV, additivity assumption in quark model for total hadronic cross sections of, 23:39655
interactions $\gamma + p$ at 3.7 to 17.9 GeV, scintillation counter study of total cross sections for, (E), 24:45409
interactions $\gamma + p$ at 3.7 to 17.9 GeV, total cross sections for, (E), 24:45410
interactions $\gamma + p$ at 335 MeV in spark chamber, cross sections for Compton, (E), 21:42242
interactions $\gamma + p$ at 4 GeV in bubble chamber, meson (eta^0) production from, (E), 22:52922
interactions $\gamma + p$ at 4 to 36 GeV, quark model for multiple π production in, 25:56514
interactions $\gamma + p$ at 4 to 9 GeV, cross sections for rho^0 production in, 23:14951
interactions $\gamma + p$ at 4 to 9 GeV, scintillation counter and spark chamber study of rho^0 production in, 23:16925
interactions $\gamma + p$ at 4.8 to 6.0 GeV in hydrogen bubble chamber, production of multipion final states in, (E), 22:34908
interactions $\gamma + p$ at 5 to 150 GeV, performance of proposed 25-foot bubble chamber for study of hadron production in, 24:50592 (TID-25473(Vol.2), pp 83-7)
interactions $\gamma + p$ at 5 to 17.8 GeV, cross sections for π, eta, rho, and phi production in, (E), 24:24208
interactions $\gamma + p$ at 5 to 7 GeV, rho—ω interference parameters in dipion production in, (E), 25:52991 (DESY-71/37)
interactions $\gamma + p$ at 5.0 to 17.8 GeV, B(1240) production in, (E), 25:14524

interactions γ + p at 6.3 to 9 GeV, spectrometer and spark chamber study of cross section ratio of phi production in γ + d interactions to phi production in, (E), 25:47711
interactions γ + p at 6.3 to 9 GeV, total cross sections and amplitude of phi + N interactions and γphi coupling constant from, (E), 25:47711
interactions γ + p at 6.4 to 9.0 GeV, cross sections for phi production in, (E), 25:38640
interactions γ + p at 60 to 1450 MeV, dispersion relations for cross sections of Compton, (E/T), 23:23327
interactions γ + p at 60 to 750 MeV, differential cross section for Compton, 22:13705
interactions γ + p at 600 to 750 MeV, resonance effects in Compton, (T), 21:11751
interactions γ + p at 7.4 GeV, rho—ω interference parameters from di-pion production in, (E), 25:53002
interactions γ + p at 7.5 GeV in bubble chamber, total hadronic cross sections for, (T), 23:5518
interactions γ + p at 8 and 16 GeV, cross sections for forward Compton, (E), 25:38638
interactions γ + p at 850 MeV, magnetic spectrometer of asymmetric μ pair production in, (E), 22:22276 (CONF-670923-, pp 409-51)
interactions γ + p at high energies in hydrogen bubble chamber, strange particle production from, (E), 22:13638
interactions γ + p at high energies, bootstrap prediction for wide-angle Compton, 24:32988
interactions γ + p at high energies, dispersion sum rules and Cabibbo—Radicati relation from Compton, 21:33658
interactions γ + p at high energies, Drell—Hearn—Gerasimov sum rule for forward, (T), 21:46515
interactions γ + p at high energies, fragmentation and duality in inclusive, 25:47795
interactions γ + p at high energies, model for vector-meson production in, 25:38701
interactions γ + p at high energies, model of rho^0 and phi production in, 23:36884
interactions γ + p at high energies, modified coherent-droplet model for meson production in, 23:15025
interactions γ + p at high energies, quark model for constant of, (T), 25:14595 (ITF-70-63-P)
interactions γ + p at high energies, Regge analysis of particle production in, (T), 25:22728
interactions γ + p at high energies, Regge pole description of two-body exchange, 24:24380
interactions γ + p at high energies, Regge pole model for total cross sections of Compton, 25:59340
interactions γ + p at high energies, Regge pole model for production of neutral vector mesons in, (T), 23:13057
interactions γ + p at high energies, Regge residues for extrapolation to electroproduction region for total cross sections of, (T), 25:3312 (NYO-4204-6)
interactions γ + p at high energies, review of meson production in, (E), 22:39234 (CERN-68-7(Vol.1), pp 556-70)
interactions γ + p at high energies, review of peripheral model for origin of dips and spikes in differential cross sections for exchange, (T), 24:52099
interactions γ + p at high energies, review of production of rho, phi, and ω in, (E), 25:52997
interactions γ + p at high energies, review of, (E/T), 24:20061
interactions γ + p at high energies, test of parton model from inelastic, 24:8592
interactions γ + p at high energies, total summation of perturbation series for forward, (T), 25:17499 (JINR-E2-5509)
interactions γ + p at high energies, vector dominance model for sum rule connecting photon—vector transition and meson—nucleon interaction with cross section of, 22:20173 (JINR-P2-3704)
interactions γ + p at high energies, vector-dominance model and sum rules for, (T), 23:3678
interactions γ + p at low energies, C violation in Compton, (T), 21:7485
interactions γ + p at low energies, T violation in Compton, 21:37882
interactions γ + p at nuclear resonance, real part of Compton amplitude from electron bremsstrahlung and pair production in, 24:13009
interactions γ + p at very high energies, spectra of cosmic neutrinos produced in, (T), 24:20110
interactions γ + p below 1.5 GeV, freon bubble chamber study of π^+ and π^- production from, 21:33589
interactions γ + p below 150 MeV, analysis of experimental data for Compton, 22:20111
interactions γ + p below 234 MeV, multipole analysis of π^0 production in, (T), 22:29662
interactions γ + p below 40 GeV, proposed experiment on momentum transfer and excitation dependence of deep inelastic Compton, 24:51888 (TID-25473(Vol.4), pp 171-82)
interactions γ + p below 400 MeV, review of experiments and theory for Compton, 23:8769 (TID-24667, pp 567-73)
interactions γ + p below 5.8 GeV in hydrogen bubble chamber, particle angular and momentum distributions from, 21:27292
interactions γ + p below 6 GeV in bubble chamber, resonance production from, (E), 22:15660 (DESY-67/40)
interactions γ + p in e + d interactions at high energies, cross sections for particle production in, (E), 25:56405 (DESY-71/33)
interactions γ + p in GeV range, design and performance of on-line data acquisition system for studying, 22:367
interactions γ + p in helium-3 cloud chamber, meson (π) production in, (E), 23:46592 (LNF-68/73)
interactions γ + p in hydrogen bubble chamber, research on, 21:27283 (MIT-2098-299, pp 16-18)
interactions γ + p in parton model, cross section for μ^+—μ^- production in Compton, 24:32993
interactions γ + p in quark model, relative cross sections for phi and rho production in, 21:11749
interactions γ + p in Regge pole model, helicity amplitudes for vector-meson production in forward, 21:37751
interactions γ + p in second resonance region, isobar model analysis of single π production in, 25:3313
interactions γ + p in SU(6)-quark model, relations between differential cross sections for scalar and vector meson production in, 25:14626
interactions γ + p near threshold, π^+ production in, 22:20182
interactions γ + p on polarized targets, π angular distribution from production in, (T), 22:50322
interactions γ + p to 1500 MeV in heavy-liquid bubble chamber, charged-pion pair production in, (E), 21:25224
interactions γ + p up to 5.8 GeV, angular and momentum distributions of kaons, pions, and protons in, 21:13671 (DESY-66/34)
interactions γ + p, Adler—Fubini sum rule for, 22:48263
interactions γ + p, antibound state of two π with J = 2 and I = 1 in dispersion sum rules relating coupling constants of 2^+ mesons with integral of quadratic functions of amplitudes of, (T), 25:38708
interactions γ + p, asymptotic behavior of total cross sections off mass shell for, 25:53093
interactions γ + p, asymptotic expansion with γ mass tending to infinity for commutators of current density operators for, (T), 24:47413
interactions γ + p, asymptotic sum rules for photoproduction, 24:28512
interactions γ + p, branching ratios for vector meson and strange particle production in, 21:25259
interactions γ + p, collinear SU(4)/sub W/ for amplitudes of π^+ and eta production from, 21:35326
interactions γ + p, Compton effect in, (E/T), 23:8926 (TID-24667, pp 555-66)
interactions γ + p, computer program using Monte Carlo method for determining incident beam energy spectrum from electron pairs from, (T), 25:9705 (SLAC-123)
interactions γ + p, continuous dispersion sum rules for forward Compton, 24:40317
interactions γ + p, cross section for W pair production in, (T), 23:13061
interactions γ + p, cross sections for multipion production in, (T), 21:37752
interactions γ + p, cross sections for polarized Compton, (T), 24:32987
interactions γ + p, cross sections for vector-meson production in, (T), 21:11750
interactions γ + p, cross sections for virtual, (E), 24:3500
interactions γ + p, cross sections from e + p interactions, (E/T), 24:24217
interactions γ + p, diffraction dissociation for rho production from, (T), 21:46508
interactions γ + p, dispersion relation calculation of forward Compton amplitude from total cross sections for, (E/T), 24:32986
interactions γ + p, divergence conditions for meson production from, 21:33640 (JINR-E2-3364)
interactions γ + p, effects of C and T noninvariance in Compton, 21:18947
interactions γ + p, effects of deuteron form factor, isoscalar part of photon, and Glauber correction on ratio for rho^0 and phi^0 production cross sections in γ + d interactions with production cross sections of, (T), 24:51899
interactions γ + p, electromagnetic contribution to electron pair production from, 21:23321
interactions γ + p, eta, π, and rho production from, (E), 21:29460
interactions γ + p, fits to differential cross sections for π production in, 25:9727
interactions γ + p, fixed pole at J = 0 in Compton, 25:17448
interactions γ + p, fixed pole in virtual Compton amplitude for, 25:14608
interactions γ + p, high-energy limit for real part of forward Compton, 23:23429
interactions γ + p, leading light-cone behavior in total cross section for photoabsorption in, (T), 25:7600
interactions γ + p, lectures on, (T), 25:22726 (INP-712(Vol.1), pp 97-106)
interactions γ + p, mass and width of Δ(1236) from, 24:18194
interactions γ + p, meson and baryon resonance production in, 22:46375
interactions γ + p, model for Pomeranchukon exchange in total cross sections for, 25:36512
interactions γ + p, model for π production in, 21:9741
interactions γ + p, multiperipheral production mechanism and duality for rho'(1500) production in, 25:53097
interactions γ + p, multiple pion production in, (E/T), 22:17897
interactions γ + p, multiple π production in, 24:35613
interactions γ + p, neutral vector meson production in, (T), 24:18109 (CONF-690330-, pp 48-60)
interactions γ + p, Orsay electron linac experimental facility for studying π production in, 23:52089
interactions γ + p, parity doublet conspiracy of pion from finite energy sum rules in π^+ production in, 22:20183
interactions γ + p, photon—vector-meson analogy model for differential cross sections for Compton, 23:25557
interactions γ + p, polarization asymmetry in forward phi production in, (E), 25:38639
interactions γ + p, polarization effects on production of symmetric lepton pairs in, 22:34904
interactions γ + p, polarization in vector dominance model for π production in, 22:39419
interactions γ + p, Pomeranchuk decoupling from ordinary Regge trajectories in vector meson production in, (T), 25:5348 (COO-264-562)
interactions γ + p, production of heavy lepton in, (T), 23:7116
interactions γ + p, π^+ production in, (E/T), 21:7450
interactions γ + p, quantum-electrodynamics predictions for μ pair production in, (T), 21:903
interactions γ + p, quark model relations for differential cross sections of, 22:44382
interactions γ + p, Regge behavior and scaling law for asymptotical behavior of total cross sections off mass shell for, (T), 25:45692 (JINR-E2-5778)
interactions γ + p, Regge pole and quark models for coherent production of neutral vector mesons in, 24:42915
interactions γ + p, Regge pole model for vector meson production in, 22:37109
interactions γ + p, Regge pole residues near α = 0 in presence of fixed pole effects in, (T), 24:26442
interactions γ + p, Regge poles for neutral nonstrange 0^- meson production from, 21:21169
interactions γ + p, Regge recurrence hypothesis and U(6)/sub W/ x O(2)/sub W/ predictions for N*(1688) and N*(1920) production in, 21:37809
interactions γ + p, relations among amplitudes for production of meson pairs in, (T), 21:27407
interactions γ + p, relations among amplitudes for production of three mesons in, 21:27407
interactions γ + p, relations among amplitudes for single meson production in, (T), 21:27407
interactions γ + p, review of production of several hadrons in, (E), 25:30716
interactions γ + p, review of resonance and strange particle production in, (E/T), 23:39660
interactions γ + p, review of S not equal to 0 baryon resonances in, 22:32057
interactions γ + p, review of vector dominance model for hadron production in, 23:27764 (DESY-69/10)
interactions γ + p, review on rho, ω, and phi production in, 25:5301 (DNPL/R-7, pp 29-70)
interactions γ + p, rho, phi, and ω production in, 24:24279
interactions γ + p, S = 1 baryon states from missing-mass spectrometer study of K^- production from, 21:35250
interactions γ + p, scintillation counter—spark chamber telescope for studying π^+ production in, 24:14305
interactions γ + p, search for S = +1 resonances and K^- production in, (E), 25:25286
interactions γ + p, spin dependence in inclusive, 25:33622
interactions γ + p, SU(3) symmetry and Regge pole model for differential cross section relations for π^+ and K^+ production in, 22:48347
interactions γ + p, SU(6) symmetry for meson production in, 21:11793
interactions γ + p, subtraction constants in sum rules for Compton, 22:15714
interactions γ + p, Sugawara theory of currents for asymptotic bounds on cross sections for virtual Compton, 24:8589
interactions γ + p, sum rules for Compton, 23:1615
interactions γ + p, sum rules for hadron production in, 23:23418
interactions γ + p, T invariance for Compton, 21:29600 (DESY-67/8)
interactions γ + p, T-odd spin correlations in Compton, (T), 21:25255
interactions γ + p, test of quantum electrodynamics from electron-pair production in, 24:32997
interactions γ + p, threshold conditions for helicity amplitudes for, 21:40172
interactions γ + p, U(6,6) peripheral absorption model for, 23:34579
interactions γ + p, unitary symmetry for meson production in, (T), 21:4090 (N-66-21182)
interactions γ + p, vector dominance and absorption model with U(6,6) couplings for, 24:1540
interactions γ + p, vector dominance for total cross sections of virtual, (E), 24:3501
interactions γ + p, vector dominance model for total cross section for hadron production from, 21:31553 (DESY-67/13)
interactions γ + p, vector dominance model for total hadronic cross sections for, 23:36870
interactions γ + p, vector dominance model to total cross sections for, (E/T), 23:21038
interactions γ + p, vector-meson dominance and subtraction constants in dispersion relations for Compton, (T), 23:5516
interactions in balloon-height atmosphere of solar, neutron flux from, (E), 24:47146
interactions in emulsions at 24 BeV, (E), 22:2831
interactions in graphite at 24 GeV/c, neutron production in, (E), 22:26559
interactions in helium-3 (He-3,t) reactions at 44 MeV, search for final-state, (E), 21:35405 (AD-650970)
interactions in nuclear emusions at 6.2 and 28 GeV/c, production of fast deuterons and tritons in, (E), 22:34846
interactions K + N, Y* production in, (E), 23:10765
interactions K + p → K + 2π + p, natural- and unnatural-parity components in diffractive, (T), 25:22827
interactions K + p → K + 2π + p, review of diffractive processes in, (T), 25:17501
interactions K + p → K + Δ(1236), Roy model for behavior of diffraction maximum in, 22:17956
interactions K + p → K + N + nπ, quark model for cross sections for, 23:5620
interactions K + p → K + N*, one-particle exchange models for, 21:7515
interactions K + p → K + N*, Regge-pole model for, 22:32165

interactions $K + p \rightarrow K + p$ below 30 GeV, proton compressibility in, (T), 23:36957
interactions $K + p \rightarrow K + p$, dispersion sum rules for, (T), 21:11771 (JINR-P2-3081)
interactions $K + p \rightarrow K + \pi + p$ with Regge pole and cut exchange, $K + \pi$ scattering phase shift determination in, (T), 25:33750
interactions $K + p \rightarrow K + \pi + p$, spin effects on mass spectra for $K^*(890)$ produced in, (T), 23:46739
interactions $K + p \rightarrow K^* + N^*$ at high energies, quark model for decay distribution correlations for, 21:21234
interactions $K + p \rightarrow K^* + N^*$, absorptive OPE model with form factors for, (E/T), 21:33706
interactions $K + p \rightarrow K^* + p$ at 2.64 GeV/c in absorption model, dynamic reference system for, 22:5568
interactions $K + p \rightarrow K^*(1400) + N$, Regge pole model with factorization for, 24:10707
interactions $K + p$ at 1 to 15 GeV/c, review of Q region of $K\pi\pi$ mass distributions in, (E), 25:17387
interactions $K + p$ at 10 GeV/c in bubble chamber, comparison with multiparticle production in $p + p$ interactions, review of, (E), 24:6685 (BNL-14126)
interactions $K + p$ at 20 to 10 GeV, analysis of three-body final states in, (E/T), 22:3408 (INP-555/PL/PH, pp 79-99)
interactions $K + p$ at 3.5 GeV/c, equipment for studying wide-angle elastic, 24:23018 (CEA-N-1258)
interactions $K + p$ at 4.6 and 5.0 GeV/c, low-mass $K\pi\pi$ enhancement in final states from, (T), 21:35311
interactions $K + p$ at 7 to 15 GeV/c, analysis of two-body and quasi two-body, 23:39691
interactions $K + p$ at 7 to 15 GeV/c, differential cross sections for elastic, (E/T), 22:46430
interactions $K + p$ at high energies, 22:3371
interactions $K + p$ at high energies, (E), 21:33599 (RHEL/R-144, pp 15-40)
interactions $K + p$ at high energies, (E), 21:33806 (RHEL/R-129, pp 11-44)
interactions $K + p$ at high energies, 36-plet 2^+ meson exchange for total cross section for, 22:5626
interactions $K + p$ at high energies, comparison of Regge pole results with data for, (E/T), 23:39723(T) (NP-tr-1826)
interactions $K + p$ at high energies, inelastic diffractive, 24:24251
interactions $K + p$ at high energies, kinematic variable for, 24:20165
interactions $K + p$ at high energies, M(12) scheme for vector meson production in, 21:2507
interactions $K + p$ at high energies, multiple-scattering corrections to Pomeranchuk exchange in, 22:46397
interactions $K + p$ at high energies, production of L(1775) enhancement in $K\pi\pi$ system in, (E), 25:17388
interactions $K + p$ at high energies, Regge pole model corrected by absorption for, 23:51930
interactions $K + p$ at high energies, Regge-pole amplitudes for analysis of differential cross sections for, 23:27799
interactions $K + p$ at high energies, relations among cross sections for inelastic, (T), 22:15789 (JINR-P2-3649)
interactions $K + p$ at high energies, review of peripheral model for origin of dips and spikes in differential cross sections for exchange, (T), 24:52099
interactions $K + p$ at high energies, review of research on, 22:44328(R) (ORO-2504-127)
interactions $K + p$ at high energies, sakaton rearrangement model for, 25:12186
interactions $K + p$ at high energies, theory of polarization for, 23:18924
interactions $K + p$ below 10 GeV/c, peripheral, 21:31579
interactions $K + p$ in sakaton triplet model, 22:15752
interactions $K + p$ up to 430 MeV/c, constant K-matrix fit for, (T), 25:25463
interactions $K + p$ with charge and no strangeness exchange, quark-model predictions for pseudoscalar and vector meson production cross sections for, (T), 24:10773
interactions $K + p$, Argand-diagram loops from partial-wave analysis of, 23:15091
interactions $K + p$, cross sections for elastic, (E/T), 22:22394
interactions $K + p$, cross sections for single meson production in, 23:36906
interactions $K + p$, dispersion sum rules for, 21:40233
interactions $K + p$, experimental tests of SU(3) predictions for, (T), 22:7544 (ORO-2504-112)
interactions $K + p$, fixed-u continuous-moment sum rules with Λ—Λ(1520) exchange degeneracy for, 24:33020
interactions $K + p$, generalized interference model for resonance interpretation of phase shift analysis for, (T), 25:7671
interactions $K + p$, Gribov—Morrison parity rule and helicity conservation in diffractive π production in, 25:22833
interactions $K + p$, high-energy sum rule for forward elastic, 22:3444
interactions $K + p$, K form factor from Chou—Yang model for elastic, 23:23413
interactions $K + p$, model for Pomeranchukon exchange in total cross sections for, 25:36512
interactions $K + p$, phase and t structure of exchange amplitudes for, 25:33754
interactions $K + p$, quark model for backward, 21:9806
interactions $K + p$, Regge model for axial-vector meson production, 23:5623
interactions $K + p$, Regge pole fits to cross sections for, 23:15095
interactions $K + p$, review of resonance production from, 22:9591
interactions $K + p$, review of S not equal to 0 baryon resonances in, (E), 22:32057
interactions $K + p$, study of $K + \pi$ interaction from, 24:30456 (CONF-690521-, pp 446-76)
interactions $K + p$, sum rules from current algebra and dispersion relations for, 21:21235
interactions $K + p$, three-quark corrections to quark model for deviations from exact exchange degeneracy for total cross sections of, (T), 24:10770
interactions $K + p$, upper bound on imaginary part of amplitude for elastic, 25:3460
interactions $K^0 + p \rightarrow \Delta^+(1246)$ + eta, $\Delta T = 1/2$ rule for, 21:33703
interactions $K^0 + p \rightarrow$ hyperon at 0 to 900 MeV/c, $K_2^0 - K_1^0$ mass difference from, (E), 25:38666
interactions $K^0 + p \rightarrow K^0 + \pi^0$ + negative-parity isobar, cuts in complex l-plane for, (T), 22:20248
interactions $K^0 + p \rightarrow K^0 + \pi^0 + p$, cutoffs in complex l-plane for, 21:31590 (JINR-P2-3337)
interactions $K^0 + p \rightarrow K^+ + n$ at 0 to 900 MeV/c, mixing parameters from, (E), 25:38666
interactions $K^0 + p \rightarrow K^+ + n$, mixing parameters for K^0antiK^0 system from, (T), 21:18990 (UCRL-16475(Rev.))
interactions $K^0 + p \rightarrow K^+ + \pi^-$ + negative-parity isobar, cuts in complex l-plane for, (T), 22:20248
interactions $K^0 + p \rightarrow \Lambda + \pi^+$, mixing parameters for K^0antiK^0 system from, (T), 21:18990 (UCRL-16475(Rev.))
interactions $K^0 + p \rightarrow \Lambda + \pi^+$, quark model for Λ/Σ ratio in, 22:13753 (LPTHE-TH-226)
interactions $K^0 + p \rightarrow \Sigma^0 + \pi^+$ at 300 MeV/c in hydrogen bubble chamber, (E), 22:13670
interactions $K^0 + p$ at 168 to 343 MeV/c, scintillation counter study of total cross sections for, (E), 22:15680 (ORO-2504-117)
interactions $K^0 + p$ at 50 to 150 GeV/c, proposed experiment for diffractive production of boson resonances in, 24:51959 (TID-25473(Vol.4), pp 281-9)
interactions $K^0 + p$, cross section for, 25:7558
interactions $K^0 + p$, j-plane singularities in superconvergent sum rules for, 23:27804
interactions $K^0 + p$, sign of $K_1^0 - K_2^0$ mass difference from elastic, (E), 21:42252
interactions $K^0 + p$, test of Pomeranchuk theorem from regeneration amplitude in, 24:33019
interactions $K_1^0 + p \rightarrow K_2^0 + p$ at 1.3 to 8.0 GeV/c, cross sections for, (E), 25:33564
interactions $K_1^0 + p \rightarrow K_2^0 + p$, Regge models for, (E/T), 25:33736
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at 3 and 6 GeV/c, empirical analysis of differences and sums of angular distributions for, (T), 25:59477
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at 300 MeV/c in hydrogen bubble chamber, (E), 22:13670
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at 590 MeV/c, cross section for, (E), 21:29436
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at high energies, asymptotical properties of amplitude of, (T), 25:59494
interactions $K_2^0 + p \rightarrow K_1^0 + p$ at high energies, Reggeized ω exchange in, 22:44426
interactions $K_2^0 + p \rightarrow K_1^0 + p$ in Regge pole models, regeneration phase for, 25:7668
interactions $K_2^0 + p \rightarrow K_1^0 + p$ in Regge-pole eikonal theory, differential cross sections and polarizations for, 24:37796
interactions $K_2^0 + p \rightarrow K_1^0 + p$, electromagnetic corrections to coherent, 25:33758
interactions $K_2^0 + p \rightarrow K_1^0 + p$, Regge-pole model predictions for regeneration cross section for, 23:21108
interactions $K_2^0 + p \rightarrow K_1^0 + p$, upper bound on Pomeranchuk theorem violation in asymptotic total cross section difference in $K^- + n$ and $K^+ + n$ interactions from integrated cross sections for, (T), 25:22818
interactions $K_1^0 + p \rightarrow K_1^0(K_2^0) + p$ at small angles, Regge pole eikonal theory for differential cross sections and polarizations for, 24:13082 (SU-1206-218)
interactions $K_2^0 + p \rightarrow K_2^0 + p$ in Regge-pole eikonal theory, differential cross sections and polarizations for, 24:37796
interactions $K_2^0 + p \rightarrow \Lambda + \pi^+ + \pi^0$ at 0.3 to 7.5 GeV/c, production of Σ (1616) and Σ (1700) in, (E), 23:23336
interactions $K_2^0 + p \rightarrow \Lambda + \pi^+ + \pi^0$ at 590 MeV/c, cross sections for, (E), 21:29436
interactions $K_2^0 + p \rightarrow \Lambda + \pi^+$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K_1^0 + p \rightarrow \Lambda + \pi^+$ at 0.3 to 7.5 GeV/c, production of Σ (1616) and Σ (1700) in, (E), 23:23336
interactions $K_2^0 + p \rightarrow \Lambda + \pi^+$ at 590 MeV/c, cross section for, (E), 21:29436
interactions $K_2^0 + p \rightarrow \Lambda^0 + \pi^+$ at 300 MeV/c in hydrogen bubble chamber, Σ (1385) production from, (E), 22:13670
interactions $K_2^0 + p \rightarrow \Sigma^0 + \pi^+$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K_2^0 + p \rightarrow \Sigma^0 + \pi^+$ at 590 MeV/c, cross sections for, (E), 21:29436
interactions $K_2^0 + p \rightarrow \Sigma^- + \pi^+ + \pi^+$ at 590 MeV/c, cross sections for, (E), 21:29436
interactions $K_2^0 + p$ at 168 to 343 MeV/c, total cross sections for, (E), 22:34856
interactions $K_2^0 + p$ at 168 to 343 MeV/c, total cross sections for, (E), 23:13038
interactions $K_1^0 + p$ at low energies, branching ratio and cross sections for s-wave, 21:21225
interactions $K_2^0 + p$ below 280 MeV/c, K-matrix analysis of, (E/T), 24:49523
interactions $K^- + (2p) \rightarrow \Lambda^0 + p$ in light nuclei, pair absorption model for, 22:29721
interactions $K^- + (2p) \rightarrow \Sigma^0 + p$ in light nuclei, pair absorption model for, 22:29721
interactions $K^- + (pn) \rightarrow \Lambda^0 + n$ in light nuclei, pair absorption model for, 22:29721
interactions $K^- + (pn) \rightarrow \Sigma^- + p$ in light nuclei, pair absorption model for, 22:29721
interactions $K^+ + d$ at 230 MeV/c, dispersion theoretic impulse approximation for elastic, 21:19022
interactions $K^+ + p \rightarrow (K\pi\pi)^+ + p$ at 12.7 GeV/c, decay properties of $Q^+(1260)$ from, (E), 24:24244
interactions $K^- + p \rightarrow (K\pi\pi)^- + p$, multiple-scattering theory for, 24:1591
interactions $K^- + p \rightarrow$ anti $K + N + \pi$ at 1.33 GeV/c in hydrogen bubble chamber, resonance production in, 21:33623
interactions $K^- + p \rightarrow$ anti $K + N + \pi$ at 1.33 GeV/c, anti $K^*(890)$ $\Delta(1236)$, $\Lambda(1520)$, and $\Sigma(1760)$ production in, (E), 22:34853
interactions $K^- + p \rightarrow$ anti $K + N + \pi$ at 777 to 1226 MeV/c, partial and differential cross sections for, (E), 23:10762
interactions $K^- + p \rightarrow$ anti $K + N$ at 780 to 1220 MeV/c in hydrogen bubble chamber, resonance production from, (E), 22:5507
interactions $K^- + p \rightarrow$ anti $K + n$ at high energies, charge exchange in, (E), 21:9701
interactions $K^- + p \rightarrow$ anti $K + \pi + N$ at 4.1 and 5.5 GeV/c in bubble chamber, $K^*(890)$ and $K^*(1400)$ production and decay from, (E), 22:20148
interactions $K^- + p \rightarrow$ anti $K^* + \Delta$ at 2.6 GeV/c, tests of quark model using, (E/T), 23:10757
interactions $K^- + p \rightarrow$ anti $K^{*0} + n$ at 2 to 13 GeV/c, Regge-pole analysis of, 23:25622
interactions $K^- + p \rightarrow$ anti $K^{*0} + n$ at 3 GeV/c, violation of quark model sum rule in, (T), 22:22363
interactions $K^- + p \rightarrow$ anti $K^{*0} + n$ at high energies, quark model predictions for, 23:21106
interactions $K^- + p \rightarrow$ anti $K^{*0} + n$, Veneziano amplitude for, 25:45756
interactions $K^- + p \rightarrow$ anti $K^{*0} + \pi^- + p$ at 5.5 GeV/c, spin—parity analysis of low-mass $K^*\pi$ system in, (E), 23:3645
interactions $K^- + p \rightarrow$ anti $K^{*0} + \pi^- + p$ at 6 and 10 GeV/c, virtual diffraction background for, 23:46730
interactions $K^- + p \rightarrow$ anti $K^0 + n + \pi^- + \pi^+$ at 6 GeV/c, cross sections for $K^*(890)$ and $\Delta(1236)$ production in, (E), 23:14990
interactions $K^- + p \rightarrow$ anti $K^0 + n$ and $K^+ + n \rightarrow K^0 + p$ at 1 to 5.5 GeV/c, test of rhoA$_2$ exchange degeneracy, duality, and secondary trajectories from, (E/T), 24:5306
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 0.45 to 1.8 GeV/c, Veneziano dips in angular distributions of, 25:14724
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 1 to 3 GeV, analysis of $S = 1$ hyperon resonances from, (E), 24:15492
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 1 to 3 GeV/c, partial cross sections for, (E), 24:15491
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 1.7 to 18.2 GeV/c, Regge analysis of, (E/T), 25:56506
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 1915 to 2168 MeV, total and differential cross section for, (E), 25:40897
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 2 to 20 GeV/c, Regge model with four poles for, (E/T), 25:5371 (CEA-N-1373)
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 3.5 GeV/c, cross section for, (E), 21:3999
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 3.95 GeV/c in bubble chamber, differential cross section for, (E), 24:45434
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 350 to 430 MeV/c, partial-wave amplitude and cross sections for, (E/T), 24:37658
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 375 and 415 MeV/c in hydrogen bubble chamber, absolute and differential cross sections and Legendre coefficients for, (E), 24:32973
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 400 MeV/c in hydrogen bubble chamber, (E), 23:39602 (UCRL-19226)
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 400 MeV/c in hydrogen bubble chamber, (E), 25:5262
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 430 to 800 MeV/c, partial-wave analysis of, (E), 24:5255
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 5.0 GeV/c, model for, 22:50391
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 5.0 to 12.3 GeV/c, Veneziano model for, (E/T), 24:1592
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 50 and 100 GeV/c at small angles, proposed experiment for optical spark chamber study of, 24:51955 (TID-25473(Vol.4), pp 71-5)
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 594 to 820 MeV/c, differential cross sections for, (E), 23:18815
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 600 to 1200 MeV/c, partial wave amplitudes for analysis of, (E/T), 23:8749
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 7.7 GeV/c, cross section for, (E), 23:14973
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 8 GeV/c, cross sections for elastic, (E), 21:25236 (MIT-2098-301)
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 800 to 1200 MeV/c, partial-wave analysis of, (E/T), 25:59293
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at 89 to 300 MeV/c, cross sections and scattering lengths for, (E), 21:2377
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, constancy of total cross sections for, (T), 25:12210
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, effective Regge trajectories for, (T), 25:5377
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, Regge pole models for differential cross sections and polarization predictions for, 23:39730
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, Regge pole model for polarization prediction for, 21:42359

interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, Regge-pole eikonal theory of small-angle, 23:25639
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, Regge pole—cut model for analysis of, 25:56505
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, Regge pole theory for, 21:29541
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, rho- and R-Regge pole analysis of, 21:46538
interactions $K^- + p \rightarrow$ anti $K^0 + n$ at high energies, tachyon resonance exchange for differential cross sections for, (T), 25:47935 (ORO-3992-52)
interactions $K^- + p \rightarrow$ anti $K^0 + n$ in bubble chambers, anti K^0 decay from, (E), 24:37615
interactions $K^- + p \rightarrow$ anti $K^0 + n$ in O(3,1) symmetry, differential cross sections for, 23:21105
interactions $K^- + p \rightarrow$ anti $K^0 + n$, A_2' Regge pole in, 24:49525
interactions $K^- + p \rightarrow$ anti $K^0 + n$, ambiguities in determination of Regge-pole parameters for rho- and R-exchange, 21:37822
interactions $K^- + p \rightarrow$ anti $K^0 + n$, complex angular momentum method with j-plane branch points for, (E/T), 24:45427 (ITEF-754)
interactions $K^- + p \rightarrow$ anti $K^0 + n$, cut-corrected exchange degeneracy for, 25:45762
interactions $K^- + p \rightarrow$ anti $K^0 + n$, differential cross sections using SU(3) symmetry and Regge poles for, (T), 23:5626
interactions $K^- + p \rightarrow$ anti $K^0 + n$, dispersion relation predictions for forward charge-exchange amplitudes of, 21:31601
interactions $K^- + p \rightarrow$ anti $K^0 + n$, generalized Veneziano model for, (E/T), 25:1537
interactions $K^- + p \rightarrow$ anti $K^0 + n$, $K^0 \rightarrow \pi + l + \nu$, test of $\Delta S = \Delta Q$ rule from time distribution in, (E), 25:14533
interactions $K^- + p \rightarrow$ anti $K^0 + n$, real to imaginary ratio of forward amplitude of, 22:29707
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge cuts for polarization in, 23:44666
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge cuts in exchange degenerate trajectories for, 24:3673
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge dipole rho model for, 25:47880
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge pole amplitudes with absorptive corrections for, 24:13102
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge pole theory for amplitude of, 22:20258
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge poles and SU(3) symmetry for, 22:1439
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge—quark model analysis of differential cross sections for, 23:1644
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge-pole analysis of, 22:46433
interactions $K^- + p \rightarrow$ anti $K^0 + n$, Regge-pole model with cuts for, (T), 24:49501
interactions $K^- + p \rightarrow$ anti $K^0 + n$, rho + R Regge-pole model for, 22:9594
interactions $K^- + p \rightarrow$ anti $K^0 + n$, secondary Regge contributions in, 25:56508
interactions $K^- + p \rightarrow$ anti $K^0 + n$, SU(3) predictions for, 22:46490
interactions $K^- + p \rightarrow$ anti $K^0 + n$, test of semi-local duality in backward, (E), 25:59482
interactions $K^- + p \rightarrow$ anti $K^0 + p + \pi^- + \pi^0$ at 6 GeV/c, cross sections for $K^*(890)$ and $\Delta(1236)$ production in, (E), 23:14990
interactions $K^- + p \rightarrow$ anti $K^0 + p + \pi^-$ at 2.24 GeV/c in deuterium bubble chamber, K^{*-} production in, (E), 21:37710
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p$ at 2.5 to 13 GeV in generalized Veneziano model, crossing-symmetric description of, 24:52091
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p$ at 3.3 GeV/c, anti $K^0\pi^-$ decay asymmetry in, (E), 25:45670
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p$ at 4.5 GeV/c in hydrogen bubble chamber, production and decay angular distribution of $K^*(890)$ in, (E), 23:42575
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, spin and parity of K^* (1420) from, 21:25247
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p$, line-reversal-symmetry breaking for, 25:53213
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + p(\Delta^+)$ at 3.3 GeV/c in hydrogen bubble chamber, density matrix elements for K(890) production and decay angular properties of anti $K^0\pi^-$ system in, (E), 25:45675
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + \pi^0 + p$ at 4.1 and 5.5 GeV/c in bubble chamber, $K^*(890)$ and $K^*(1400)$ production and decay in, (E), 22:20148
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + \pi^0(\pi^+) + N$ at 4.1 to 5.5 GeV/c, $K^*(890)$ and $K^*(1400)$ production and decay from, (E), 22:24563
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^- + \pi^+ + n$ at 4.1 and 5.5 GeV/c in bubble chamber, $K^*(890)$ and $K^*(1400)$ production and decay from, (E), 22:20148
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^+ + \pi^- + n$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, spin and parity of $K^*(1420)$ from, 21:25247
interactions $K^- + p \rightarrow$ anti $K^0 + \pi^+ + \pi^- + n$, generalized Veneziano model for, 25:33732
interactions $K^- + p \rightarrow$ anti K^0 + secondary particles at 10.1 GeV/c, production properties and cross sections for, (E), 25:45671
interactions $K^- + p \rightarrow$ anti K^0 (Λ^0) + neutrals at 7.7 GeV/c, cross sections for, (E), 23:14974
interactions $K^- + p \rightarrow$ anti $K^0(K^-) + \pi^-(\pi^+) + N$ at 4.1 to 5.5 GeV/c, $K^*(890)$ and $K^*(1400)$ production and decay from, (E), 22:24563
interactions $K^+ + p \rightarrow$ anti Λ + 2p, generalized Veneziano model analysis of, (T), 25:53190
interactions $K^+ + p \rightarrow$ anti $\Lambda + p + p$ at 7.3 GeV/c in hydrogen bubble chamber, (E), 25:14574
interactions $K^+ + p \rightarrow$ anti $\Lambda + p + p$ at 7.3 GeV/c, double-Regge model for peripheral production in, (E/T), 25:25336
interactions $K^+ + p \rightarrow$ anti $\Lambda + p + p$ at 8.25 GeV/c, Veneziano model for, (E/T), 25:59295
interactions $K^+ + p \rightarrow$ anti Λ (anti Σ^0) $+ p + N + m\pi$ at 7.3 GeV/c in bubble chamber, cross sections and angular distributions for, (E), 21:46483
interactions $K^+ + p \rightarrow$ anti $\Sigma^0 + p + p$ at 8.25 GeV/c, cross sections for, (E), 25:59295
interactions $K^+ + p \rightarrow$ anti $Y + N + N + (\pi)$ at 9 GeV/c, anti ΛN mass enhancements in, (E), 24:51971
interactions $K^- + p \rightarrow$ anti$K^0 + n$, mixing parameters for K^0antiK^0 system from, (T), 21:18990 (UCRL-16475(Rev.))
interactions $K^- + p \rightarrow$ baryon + meson + meson, quark model for cross-section relations between, 22:50375
interactions $K^+ + p \rightarrow \Delta^{++} + K^{*0}(1420)$, $K^{*0}(1420) \rightarrow K^+ + \pi^-$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections and production mechanism for, (E), 25:19914
interactions $K^+ + p \rightarrow \Delta^{++} + K^{*0}(890)$, $K^{*0}(890) \rightarrow K^+(K^0) + \pi^-(\pi^0)$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections and production mechanism for, (E), 25:19914
interactions $K^+ + p \rightarrow \Delta^{++}$ (1246) + eta, $\Delta T = {}^1/_2$ rule for, 21:33703
interactions $K^+ + p \rightarrow \Delta^{++}(1236) + K^{*0}(890)$ at 12.7 GeV/c, density matrix elements for $\Delta^{++}(1236)$ and $K^{*0}(890)$ decay from, (E/T), 22:48229 (UR-875-251)
interactions $K^+ + p \rightarrow \Delta^{++}(1236) + K^+ + \pi^-$ at 12.7 GeV/c, momentum-transfer distributions in, (E), 25:14575
interactions $K^+ + p \rightarrow \Delta^{++}(1236) + \pi^- + K^+$ at 5.5 GeV/c, cross sections and mass distributions for, (E), 23:10753
interactions $K^- + p \rightarrow$ eta $+ \Lambda$ in nuclei, tests of unitary symmetry by, 21:33750
interactions $K^- + p \rightarrow$ eta $+ \Lambda^0$ at 740 MeV/c in hydrogen bubble chamber, 21:37657(R) (ORO-3065-13(and App.A))
interactions $K^- + p \rightarrow \gamma + \Lambda$ at 0.20, 0.75, and 3.0 GeV/c, absorptive peripheral model for cross sections for, 21:15344
interactions $K^- + p \rightarrow \gamma + \Lambda$, electromagnetic coupling of Y^{**} resonances from, (T), 22:35007
interactions $K^- + p \rightarrow \gamma + \Lambda$, electromagnetic couplings of baryons from Y_0^* production from, (T), 22:1405 (TH-210)
interactions $K^- + p \rightarrow \gamma + Y_0^*$ (1405) at 3 GeV/c, absorptive peripheral model for cross sections for, 21:15344
interactions $K^- + p \rightarrow$ hyperon + meson at 3.5 GeV/c, production cross sections and decay distributions for, (E), 21:9718
interactions $K^- + p \rightarrow$ hyperon + vector meson at 3 GeV/c, violation of quark model prediction for, (E/T), 25:47891
interactions $K^+ + p \rightarrow K + \Delta(1236)$ at 864 to 1585 MeV/c, production and decay angular distributions of $\Delta(1236)$ from, (E), 24:51972
interactions $K^+ + p \rightarrow K + N + \pi + \pi + \pi$ at 3.0 to 5.0 GeV/c, statistical model for branching ratio for, 21:33711
interactions $K^+ + p \rightarrow K + N + \pi + \pi$ at 3, 3.5, and 5 GeV/c in hydrogen bubble chamber, enhancement in $K^*(892)\pi$ system in, (E), 21:27309
interactions $K^+ + p \rightarrow K + N + \pi + \pi$ at 5 GeV/c in bubble chamber, $K^*(892)$ and $\Delta(1236)$ double production and decay angular distributions from, (E), 23:32623
interactions $K^+ + p \rightarrow K + N + \pi$ at 1.2 GeV/c, K^* and N^* interference in, (E), 21:2385
interactions $K^+ + p \rightarrow K + N + \pi$ at 2.97 GeV/c, production and decay of K^* and N^* in, (E), 23:10754
interactions $K^+ + p \rightarrow K + N + \pi$ at 3 GeV/c in hydrogen bubble chamber, production cross sections and decay correlations for $K^*(890)$ and $N^*(1236)$ from, (E), 21:27308
interactions $K^+ + p \rightarrow K + N + \pi$ at 3 GeV/c, analysis of, (E), 22:50390
interactions $K^+ + p \rightarrow K + N + \pi$ at 3 GeV/c, $K^*(892)$ and $\Delta(1236)$ production in, (E/T), 22:50390
interactions $K^+ + p \rightarrow K + N + \pi$ at 3.5 GeV/c in hydrogen bubble chamber, methodical problems for, 21:31528 (JINR-P1-3313)
interactions $K^+ + p \rightarrow K + N + \pi$ at 4.6 GeV/c, cross sections for Δ, $K^*(891)$, and $K^*(1420)$ production in, (E), 25:30748
interactions $K^+ + p \rightarrow K + N + \pi$, Cherenkov mechanism for analysis of cross section behavior of, 25:41016
interactions $K^- + p \rightarrow K + N + \pi$, Cherenkov mechanism for analysis of cross section behavior of, 25:41016
interactions $K^+ + p \rightarrow K + N^* + \pi + \pi$ at 3.0 to 5.0 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $K^- + p \rightarrow K + \omega + p$ at 5.46 GeV/c in hydrogen bubble chamber, double pheripheral model for, (E), 24:10674 (COO-1195-177)
interactions $K^+ + p \rightarrow K + \pi + \Delta^{++}$ at 7.3 GeV/c, pole-extrapolation analysis of $K + \pi$ interaction from, (E), 24:30456 (CONF-690521-, pp 446-76)
interactions $K^+ + p \rightarrow K + \pi + \Delta^{++}$ at 7.3 GeV/c, production of T = 1/2, $K\pi$(1100) enhancement in, (E) , 23:7097
interactions $K^+ + p \rightarrow K + \pi + N$ at 735 and 785 MeV/c in hydrogen bubble chamber, search for kappa (725) in, (E), 22:3422
interactions $K^+ + p \rightarrow K + \pi + N$ at 860 to 1360 MeV/c, cross sections and partial-wave analysis of KN^* and K^*p final states from, (E), 22:26564 (UCRL-18131)
interactions $K^+ + p \rightarrow K + \pi + \pi + p$ at 5.5 GeV/c in bubble chamber, analysis of $K^*\pi$ system in, (E/T), 22:34861
interactions $K^+ + p \rightarrow K + \pi + \pi + \pi + p$ at 3 GeV/c, spin effects on triangle amplitudes for, 21:5396
interactions $K^- + p \rightarrow K + \Xi$ at 2 to 5 GeV/c, Regge cut model for near-forward differential cross sections for, 25:59483
interactions $K^+ + p \rightarrow K^* + \Delta^{++}$, quark model for, 21:31602
interactions $K^+ + p \rightarrow K^* + N + \pi + \pi$ at 3.0 to 5.0 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $K^- + p \rightarrow K^* + N$ at 2.0 and 2.24 GeV/c, differential and total cross sections for, (E/T), 21:2376
interactions $K^- + p \rightarrow K^* + N$ at 3 GeV/c, production mechanisms of, (E/T), 21:7460 (CEA-R-3032)
interactions $K^+ + p \rightarrow K^* + N^* + \pi$ at 3.0 to 5.0 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $K^+ + p \rightarrow K^* + N^*$ at 3.5 and 5 GeV/c in hydrogen bubble chamber, 21:27312
interactions $K^+ + p \rightarrow K^* + N^*$ at 3.5 and 5 GeV/c, O(3,1) symmetry for, 23:25626
interactions $K^- + p \rightarrow K^* + N$, differential cross sections for, 23:10817
interactions $K^+ + p \rightarrow K^* + p$ at 1 GeV/c in hydrogen bubble chamber, upper limits for scalar K^* production in, (E), 22:39281 (UCRL-18206)
interactions $K^+ + p \rightarrow K^* + p$, shrinking nature of diffraction amplitude for, 21:40222
interactions $K^- + p \rightarrow K^* + \pi + N$ at 3 GeV/c, evidence for π exchange in $K^*(891)$ production in, (E), 24:49336
interactions $K^- + p \rightarrow K^* + \pi^- + \Delta$ at 5.46 GeV/c in hydrogen bubble chamber, double peripheral model for, (E), 24:10674 (COO-1195-177)
interactions $K^- + p \rightarrow K^* + \pi^+ + n$ at 6 GeV/c, angular correlations in, (T), 22:3420
interactions $K^+ + p \rightarrow K^*(1400) + p$ at 3.5 GeV/c, widths, cross sections, and branching ratios for $K^*(1400)$ from, (E), 23:23367
interactions $K^+ + p \rightarrow K^*(1420) + \Delta(1236)$ at 5 GeV/c, spin, decay branching ratio, and production characteristics of $K^*(1420)$ from, (E), 24:1598
interactions $K^+ + p \rightarrow K^*(1420) + p$ at 13 GeV/c, cross sections for, 23:10752
interactions $K^+ + p \rightarrow K^*(1420) + p$ at 5 GeV/c, spin, decay branching ratio, and production characteristics of $K^*(1420)$ from, (E), 24:1598
interactions $K^+ + p \rightarrow K^*(890) + p$ at 13 GeV/c, cross sections for, 23:10752
interactions $K^+ + p \rightarrow K^*(890) + p$, differential cross sections for, (E), 23:10817
interactions $K^+ + p \rightarrow K^*(891) + p$ at 864 to 1585 MeV/c, production and decay angular distributions of $K^*(891)$ from, (E), 24:51972
interactions $K^+ + p \rightarrow K^{*0} + \Delta(1236)$, Regge-pole model for π exchange in, 22:26657
interactions $K^+ + p \rightarrow K^{*0} + N^{*++}$ at 3, 3.5, and 5 GeV/c, cross sections for, (E/T), 21:7468
interactions $K^+ + p \rightarrow K^{*0} + N^{*++}$ at 5 GeV, quark model predictions for joint decay distributions of resonances in, 24:13092
interactions $K^+ + p \rightarrow K^{*0} + N^{*++}$ at 5 GeV/c, quark model predictions for joint decay distributions from, 24:1596
interactions $K^- + p \rightarrow K^{*0} + \pi^- + p$ at 6 and 10 GeV/c, calculations of Deck virtual diffraction background for, 23:30757
interactions $K^- + p \rightarrow K^{*0} + \pi^- + p$ at 6 GeV/c, double peripheral mechanism for, (E/T), 23:27755
interactions $K^+ + p \rightarrow K^{*0}$ (890) $+ \Delta^{++}$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections, production mechanisms, and momentum transfer dependence in, (E), 24:37651 (UR-875-313)
interactions $K^+ + p \rightarrow K^{*0}$ (890) $+ \pi^+ + p$ at 7.3 GeV/c, Regge pole exchange analysis of, (E/T), 23:36939
interactions $K^+ + p \rightarrow K^{*0}(1420) + \Delta^{++}$ at 5.0 GeV/c, quark-model joint decay distributions in, (E/T), 25:40894
interactions $K^+ + p \rightarrow K^{*0}(890) + \Delta(1236)$ at 10 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:39274 (CERN-68-7(Vol.2), pp 121-34)
interactions $K^+ + p \rightarrow K^{*0}(890) + \Delta^{++}$, π trajectory in, 24:20163
interactions $K^+ + p \rightarrow K^{*0}(890) + \Delta^{++}(1236)$ at 5.5 GeV/c, cross sections and decay distributions for, (E), 23:10753
interactions $K^- + p \rightarrow K^{*0}(890) + n$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, test of absorption-modified one-pion exchange model for forward structure in, (E/T), 25:19918
interactions $K^- + p \rightarrow K^{*0}(890) + n$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $K^- + p \rightarrow K^{*0}(890) + n$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $K^- + p \rightarrow K^{*0}(890) + n$, model of Reggeized helicity amplitudes for, (T), 23:27810
interactions $K^+ + p \rightarrow K^{*0}(890) + \pi^+ + p$ at 5 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^+ + p \rightarrow K^{*0}(890) + \pi^+ + p$ at 5.5 GeV/c, cross sections and mass distributions for, (E), 23:10753
interactions $K^- + p \rightarrow K^{*0}(890) + \pi^- + p$ at 7.3 GeV/c, double-Regge-pole analysis of, (E/T), 23:42684
interactions $K^+ + p \rightarrow K^{*0}(892) + \Delta^{++}(1236)$ at 3 GeV/c, production mechanism and joint decay distribution in, (E), 25:40889
interactions $K^- + p \rightarrow K^{*-} + \Delta^{++} + \pi^-$ at 4.25 GeV/c in hydrogen bubble chamber, multiperipheral diagram analysis of, (E), 24:15478
interactions $K^+ + p \rightarrow K^{*+} + p$ above 3 GeV/c, K^{*+} production and decay in, 21:4052

interactions $K^- + p \to K^{*-} + p$ above 3 GeV/c, production and decay in, (T), 21:4052
interactions $K^+ + p \to K^{*+} + p$ at 2 to 13 GeV/c, Regge-pole analysis of, 23:25622
interactions $K^- + p \to K^{*-} + p$ at 2 to 13 GeV/c, Regge-pole analysis of, 23:25622
interactions $K^+ + p \to K^{*+} + p$ at 3, 3.5, and 5 GeV/c, cross sections for, (E/T), 21:7468
interactions $K^- + p \to K^{*-} + p$, line-reversal-symmetry breaking and interference effects in, 25:53213
interactions $K^+ + p \to K^{*+} + p$, line-reversal-symmetry breaking and interference effects in, 25:53213
interactions $K^+ + p \to K^{*-} + \pi^0 + p$ at 6 and 10 GeV, diffraction scattering effects on, (T), 21:19015
interactions $K^- + p \to K^{*-} + \pi^0 + p$ at 6 GeV/c, double peripheral mechanism for, (E/T), 23:27755
interactions $K^- + p \to K^{*-} + \pi^- + \Delta^{++}$ at 4.25 and 10 GeV/c, generalized Veneziano model for, (E/T), 25:22832
interactions $K^- + p \to K^{*-} + \pi^+ + n$ at 6 GeV/c, double peripheral mechanism for, (E/T), 23:27755
interactions $K^- + p \to K^{*-} + \pi^+ + n$ at 6 to 10 GeV/c, double peripheral model analysis of, 23:42677
interactions $K^- + p \to K^{*-} + \pi^+ + n$, generalized Veneziano model for, 24:40403
interactions $K^- + p \to K^{*-} + \pi^+ + n$, Veneziano amplitude for, 25:45756
interactions $K^+ + p \to K^{*+}$ (890) $+ n + \pi^+$ at 5 GeV/c in bubble chamber, N_1^* (1575) production in, (E), 21:46484
interactions $K^+ + p \to K^{*+}$ (890) $+ p$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections, production mechanisms, and momentum transfer dependence in, (E), 24:37651 (UR-875-313)
interactions $K^+ + p \to K^{*+}(1420) + p$ at 10 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:39274 (CERN-68-7(Vol.2), pp 121-34)
interactions $K^- + p \to K^{*-}(890) + p$ at 3 GeV/c, absorption model analysis of, 22:5590
interactions $K^+ + p \to K^{*+}(890) + p$ at 3 GeV/c, absorption model analysis of, 22:5590
interactions $K^+ + p \to K^{*+}(890) + p$ at 3.0 to 8.25 GeV/c, Veneziano model for, 25:56511
interactions $K^- + p \to K^{*-}(890) + p$ at 4 to 10 GeV/c, Regge-pole model for, (E/T), 24:52106
interactions $K^+ + p \to K^{*+}(890) + p$ at 5 to 13 GeV/c, Regge-pole model for, (E/T), 24:52106
interactions $K^+ + p \to K^{*+}(890) + p$ at high energies, model of π exchange and exchange-degenerate ω—f poles for, 24:52107
interactions $K^- + p \to K^{*-}(890) + p$ at high energies, model of π exchange and exchange-degenerate ω—f poles for, 24:52107
interactions $K^+ + p \to K^{*+}(890) + p$ at high energies, O(3,1) symmetry for, 23:25624
interactions $K^- + p \to K^{*-}(890) + p$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $K^- + p \to K^{*-}(890) + p$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $K^- + p \to K^{*-}(890) + p$, model of Reggeized helicity amplitudes for, (T), 23:27810
interactions $K^- + p \to K^{*+}(890) + p$, model of Reggeized helicity amplitudes for, (T), 23:27810
interactions $K^+ + p \to K^{*+}(890) + p$, two-parameter model for, (T), 25:14574
interactions $K^- + p \to K^{*-}(890) + p$, two-parameter model for, (T), 25:14574
interactions $K^+ + p \to K^{*+}(890) + \pi^+ + p$ at 5 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^- + p \to K^{*-}(892) + p$ at 1.2 to 2.1 GeV/c, rescattering model for angular distributions for, (T), 24:30526
interactions $K^+ + p \to K^0 + \Delta$, quark model for, 21:31602
interactions $K^+ + p \to K^0 + \Delta(1236)$ at 10 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:39274 (CERN-68-7(Vol.2), pp 121-34)
interactions $K^+ + p \to K^0 + \Delta(1236)$, rho + R Regge-pole model for, 24:3672
interactions $K^+ + p \to K^0 + \Delta^{++}$ and $K^- + n \to$ anti $K^0 + \Delta^-$ at 3 to 5 GeV/c, test of (rho,A_2) exchange degeneracy in, (E/T), 24:51966
interactions $K^+ + p \to K^0 + \Delta^{++}$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections, production mechanisms, and momentum transfer dependence in, (E), 24:37651 (UR-875-313)
interactions $K^+ + p \to K^0 + \Delta^{++}$ at high energies, magnetic dipole couplings at Regge vertices for, 23:23486
interactions $K^+ + p \to K^0 + \Delta^{++}$ at high energies, O(3,1) partial-wave analysis of, 23:49166
interactions $K^+ + p \to K^0 + \Delta^{++}$, exchange of rho and A_2 Regge trajectories in, 23:36932
interactions $K^+ + p \to K^0 + \Delta^{++}$, Regge pole and cut model with SU(3) symmetry and exchange degeneracy for differential cross sections for, (T), 25:25422
interactions $K^+ + p \to K^0 + \Delta^{++}$, Regge pole model with Veneziano residues for, (T), 25:3384 (TPJU-3/70)
interactions $K^+ + p \to K^0 + \Delta^{++}$, Regge pole model with Veneziano residues for, (T), 24:52110
interactions $K^+ + p \to K^0 + \Delta^{++}(1236)$ at 12.7 GeV/c, density matrix elements for $\Delta^{++}(1236)$ decay from, (E/T), 22:48229 (UR-875-251)
interactions $K^+ + p \to K^0 + \Delta^{++}(1236)$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections and production mechanism for, (E), 25:19914
interactions $K^+ + p \to K^0 + \Delta^{++}(1236)$ at threshold, phase shifts for, (T), 22:15798
interactions $K^+ + p \to K^0 + \Delta^{++}(1236)$, Regge pole fit for, 22:3428
interactions $K^+ + p \to K^0 + n + \pi^+ + \pi^+$ at 4.97 GeV/c in hydrogen bubble chamber, K^* production from, (E), 22:9517
interactions $K^+ + p \to K^0 + n + \pi^+ + \pi^+$ at 4.97 GeV/c in hydrogen bubble chamber, $K^*(1660)$ production from, (E), 22:9516
interactions $K^+ + p \to K^0 + n + \pi^+ + \pi^+$ at 5.44 GeV/c, K^* and N^* production in, (E), 23:10755
interactions $K^- + p \to K^0 + n$ at low, intermediate, and high energies, Veneziano model for, 25:7656 (IFT-70/5)
interactions $K^- + p \to K^0 + n$ below 20 GeV/c, rho' Regge trajectory for, 22:39413
interactions $K^- + p \to K^0 + n$, at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $K^- + p \to K^0 + n$, complex angular momentum method with Regge cut contribution to, (E/T), 24:52098
interactions $K^- + p \to K^0 + n$, Roy model for behavior of diffraction maximum in, 22:17956
interactions $K^- + p \to K^0 + n$, sum rules based on Regge pole model for, 21:17130
interactions $K^+ + p \to K^0 + N^*$, Regge-pole-exchange predictions for, 21:25301
interactions $K^+ + p \to K^0 + N^{*++}$, chiral symmetry with rho—γ analogy for, 24:18191
interactions $K^+ + p \to K^0 + N^{*++}(1236)$, comparison of Regge-pole model and absorption model for, 23:32739
interactions $K^+ + p \to K^0 + N^{*++}(1236)$, current algebra for threshold features of, 21:29546
interactions $K^+ + p \to K^0 + p + 2\pi^+ + \pi^-$ at 12.0 GeV/c in bubble chamber, evidence against A_1 production in, (E), 24:26374
interactions $K^+ + p \to K^0 + p + 2\pi^+ + \pi^- \pi^0$ at 12.0 GeV/c in bubble chamber, evidence against A_1 production in, (E), 24:26374
interactions $K^+ + p \to K^0 + p + n\pi$ ($n = 3,4$) in hydrogen bubble chamber at 3.5 GeV/c, production and decay of K^*, ω, and eta in, (E), 22:11597
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^0$ at 4.97 GeV/c in hydrogen bubble chamber, K^* production from, (E), 22:9517
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^0$ at 4.97 GeV/c in hydrogen bubble chamber, $K^*(1660)$ production from, (E), 22:9516
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^0$ at 5 GeV/c, final-state distributions and cross sections for, (E/T), 23:23365
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^0$ at 5.44 GeV/c, K^*, N^* and rho production in, (E), 23:10755
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 3.5 GeV/c, production and decays of ω(783), eta(549), and $K^{*0}(1410)$ in, (E), 23:23366
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 5 GeV/c, final-state distributions and cross sections for, (E), 23:23365
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 9 GeV/c, resonance production in, (E), 23:46607
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^-$ at 3.5 GeV/c, production and decays of $K^*(892)$, kappa(725), $K^{*++}(1300)$, $K^{*++}(1180)$ in, (E), 23:23366
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^-$ at 5 GeV/c, final-state distributions and cross sections for, (E), 23:23365
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^+ + \pi^-$ at 9 GeV/c, resonance production in, (E), 23:46607
interactions $K^+ + p \to K^0 + p + \pi^+ + \pi^-$ at 12.7 GeV/c in hydrogen bubble chamber, $K\pi\pi(1280)$ resonance production from, (E), 21:29454
interactions $K^+ + p \to K^0 + p + \pi^+$ at 0.6 to 1.5 GeV/c, free nucleon cross sections from, 25:47759
interactions $K^+ + p \to K^0 + p + \pi^+$ at 1.3 to 2.2 GeV/c in hydrogen bubble chamber, K^* and Δ^{++} production in, (E), 24:51950 (CALT-68-274)
interactions $K^+ + p \to K^0 + p + \pi^+$ at 1.4 and 1.7 GeV/c, CP violation in K^0 decay from, (E), 25:33795
interactions $K^+ + p \to K^0 + p + \pi^+$ at 12.7 GeV/c in hydrogen bubble chamber, preliminary results for anti Y, Y, and quasi-two-body final states from, (E), 22:3269 (UR-875-218)
interactions $K^+ + p \to K^0 + p + \pi^+$ at 1250 MeV/c in hydrogen bubble chamber, resonance production near T = 1 peak from, (E), 21:29456
interactions $K^+ + p \to K^0 + p + \pi^+$ at 2.65 GeV/c in hydrogen bubble chamber, $K^*(891)$ and $N^*(1236)$ production in, 21:37714
interactions $K^+ + p \to K^0 + p + \pi^+$ at 2.65 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42271
interactions $K^+ + p \to K^0 + p + \pi^+$ at 3.5 GeV/c in hydrogen bubble chamber, three-body final states from, (E), 21:44281
interactions $K^+ + p \to K^0 + p + \pi^+$ at 5 GeV/c, final-state distributions and cross sections for, (E/T), 23:23365
interactions $K^+ + p \to K^0 + p + \pi^+$ at 5 GeV/c, phenomenological method for double peripheral model for, 24:20139
interactions $K^+ + p \to K^0 + p + \pi^+$ at 5.44 GeV/c, K^* and N^* production in, (E), 23:10755
interactions $K^+ + p \to K^0 + p$, Regge cuts for polarization in, 23:44666
interactions $K^+ + p \to K^0 + p(n) + 2\pi$ at 3.5 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39291
interactions $K^+ + p \to K^0 + p(n) + \pi$ at 3.5 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39291
interactions $K^+ + p \to K^0 + \pi^0 + \Delta^{++}$ at 2.5 to 5.0 GeV, rotation of symmetry axis in $K + \pi$ interactions from, 25:59502
interactions $K^+ + p \to K^0 + \pi^0 + \Delta^{++}$, $K\pi$ phase shifts from Chew—Low extrapolation of, 25:56486
interactions $K^+ + p \to K^0 + \pi^0 + N^{*++}$ at 5 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^+ + p \to K^0 + \pi^0 + \pi^+ + p$ at 7.38 GeV/c, spin and parity of $K\pi\pi$ system in, (E), 23:5535
interactions $K^+ + p \to K^0 + \pi^0 + \pi^+ + p$ at 9 GeV/c in hydrogen bubble chamber, K^* (1250) production from, (E), 21:46487
interactions $K^+ + p \to K^0 + \pi^0 + \pi^+ + p$, $\pi\pi$ systems in decay of low-mass $K\pi\pi$ enhancement in, (T), 24:21983
interactions $K^+ + p \to K^0 + \pi^+$ + negative-parity isobar, cuts in complex l-plane for, (T), 22:20248
interactions $K^- + p \to K^0 + \pi^- + p$ at 1.65 GeV/c in deuterium bubble chamber, $K^-(890)$ production in, (E), 25:40899
interactions $K^- + p \to K^0 + \pi^- + p$ at 10 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^+ + p \to K^0 + \pi^+ + p$ at 2.26 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:29452 (TID-23823)
interactions $K^+ + p \to K^0 + \pi^+ + p$ at 2.26 GeV/c in hydrogen bubble chamber, production and decay of $K^*(895)$ and $N^*(1238)$ from, 21:37713
interactions $K^+ + p \to K^0 + \pi^+ + p$ at 2.5 to 13 GeV in generalized Veneziano model, crossing-symmetric description of, 24:52091
interactions $K^- + p \to K^0 + \pi^- + p$ at 3.3 GeV/c, generalized Veneziano-model fits to, 25:3391
interactions $K^+ + p \to K^0 + \pi^+ + p$ at 5 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^+ + p \to K^0 + \pi^+ + p$ at 9 GeV/c, cross sections for $K^*(890)$, $K^*(1420)$, and $\Delta^{++}(1236)$ production in, (E), 24:5253
interactions $K^+ + p \to K^0 + \pi^+ + p$, cutoffs in complex l-plane for, 21:31590 (JINR-P2-3337)
interactions $K^+ + p \to K^0 + \pi^+ + p$, line-reversal-symmetry breaking for, 25:53213
interactions $K^- + p \to K^0 + \pi^- + \pi^0 + p$ at 3 GeV/c, one-pion-exchange model for $K^*(891)$ production in, (E/T), 24:15497
interactions $K^+ + p \to K^0 + \pi^+ + \pi^0 + p$ interactions at 9 GeV/c, production and decay of $K\pi\pi(1260)$ and $K\pi\pi(1380)$ enhancements in, (E), 24:3540
interactions $K^- + p \to K^0 + \pi^- + \pi^+ + n$ at 3 GeV/c, one-pion-exchange model for $K^*(891)$ production in, (E/T), 24:15497
interactions $K^+ + p \to K^0 + \pi^+ + \pi^+ + \pi^- + \pi^0 + p$ at 10 GeV/c, production of rho(1630) in, (E), 24:26379
interactions $K^- + p \to K^0 + \pi^+ + \Xi^-$ at 1.8 to 4.2 GeV/c in bubble chamber, single-meson exchange for forward peaks in differential cross sections for $\Xi^*(1530)$ production in, (E), 23:42573
interactions $K^+ + p \to K^0$ + secondary particles at 5 and 8.2 GeV/c, production properties and cross sections for, (E), 25:45671
interactions $K^+ + p \to K^0$ + X (anything), triple-Regge hypothesis for p-Reggeon total cross section from inclusive, 25:56515
interactions $K^- + p \to K^0 + \Xi^0$ at 1.8 GeV/c, spark chamber study of differential cross sections for, (E), 25:22699
interactions $K^- + p \to K^0 + \Xi^0$, quark model and multiple-scattering formalism for, 22:52985
interactions $K^- + p \to K^0 + \Xi^0$, relativistic extensions of SU(6) for, 23:16982
interactions $K^+ + p \to K^0$ (K^+) $+ p + \pi^+ + \pi^0$ (π^-) at 12.7 GeV/c in hydrogen bubble chamber, preliminary results for anti Y, Y, and quasi-two-body final states from, (E), 22:3269 (UR-875-218)
interactions $K^+ + p \to K^0(K^+) + \pi^+ + \pi^- + \pi^+(\pi^0)$ at 12.7 GeV/c in bubble chamber, $A_1^+(1030)$ and $A_1^0(1030)$ production and decay in, (E), 23:34542
interactions $K^+ + p \to K_1^0 + p + \pi^+$ at 3.2 GeV/c in hydrogen bubble chamber, resonance production in quasi-two-body final states in, (E), 24:24238 (COO-1195-178)
interactions $K^+ + p \to K_1^0 + p + \pi^+$ at 3.2 GeV/c in hydrogen bubble chamber, K^* and N^* production and momentum transfer distributions in, (E), 25:12114
interactions $K^+ + p \to K^+ + K^0(K^+) + \Sigma^+(\Sigma^0)$, isotopic amplitudes and phase shifts for, 24:1554 (JINR-P2-4621)
interactions $K^+ + p \to K^+ + K^+ + \Lambda$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^+ + p \to K^+ + K^+ + \Lambda$ at high energies, (T), 21:17125
interactions $K^- + p \to K^- + n + \pi^+ + \pi^+ + \pi^-$ at 4.6 and 5 GeV/c, resonance production, mass distribution, angular distribution, and cross sections in, (E), 22:52944
interactions $K^- + p \to K^- + N + \pi^+ + \pi^+ + \pi^-$ at 4.6 and 5.0 GeV/c, cross sections for resonance production in, (E), 22:29627 (IS-T-225)
interactions $K^+ + p \to K^+ + n + \pi^+$ at 3.5 GeV/c in hydrogen bubble chamber, three-body final states from, (E), 21:44281
interactions $K^+ + p \to K^+ + N^*$, one-pion and diffraction contributions to, (T), 24:20173 (ITF-69-86)
interactions $K^- + p \to K^- + N^*$, one-pion and diffraction contributions to, (T), 24:20173 (ITF-69-86)
interactions $K^+ + p \to K^+ + \omega + p$ at 4.6 and 9.0 GeV/c, double Regge model for, (E/T), 23:18819
interactions $K^+ + p \to K^+ + \omega + p$ at 4.9 and 9 GeV/c in bubble chamber, multi-Regge model for meson (ω) production in, (E/T), 22:50295 (UCRL-18321)
interactions $K^- + p \to K^- + \omega + p$ at 6 GeV/c, modified double-Regge model for, 23:30760
interactions $K^- + p \to K^- + p + 4\pi$ $(+ \pi^0)$ at 3.9 GeV/c in hydrogen bubble chamber, Goldhaber effect in cross sections and production mechanisms for, (E), 25:40880 (NP-18879)
interactions $K^+ + p \to K^+ + p \to K^0 + p + \pi^+ + \pi^0$, Chew—Low extrapolation of cross sections for $K\pi$ elastic and charge-exchange interactions from, 24:30502 (CONF-690521-, pp 487-507)
interactions $K^+ + p \to K^+ + p + K^+ + K^-$ at 12.7 GeV/c in hydrogen bubble chamber, production of low-mass K^+phi^0 enhancement and phi^0 in, (E), 25:12102

interactions $K^{+} + p \rightarrow K^{+} + p + \omega$ at 9 GeV/c, test of double-Regge behavior of generalized Veneziano model for, 25:9797
interactions $K^{-} + p \rightarrow K^{-} + p + \omega^{0}$ at 3.8 GeV/c, Y^* production from, (E), 21:21145
interactions $K^{-} + p \rightarrow K^{-} + p$ + phi at 3.8 GeV/c, properties of final states from, (E), 22:11601
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{0}$ at 1.45 GeV/c, N^* (1470) production from, (E), 21:2384
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{0}$ at 3.5 GeV/c in hydrogen bubble chamber, three-body final states from, (E), 21:44281
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{0}$ at 4.57 GeV/c, $K^*(890)$ and $K^*(1420)$ production in, (E), 23:14972
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{0} + \pi^{-}$ at 5.46 GeV/c in hydrogen bubble chamber, total cross section, resonance production, and quasi-two, -three, and -four-body states in, (E), 24:10674 (COO-1195-177)
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 12.0 GeV/c in bubble chamber, evidence against A_1 production in, (E), 24:26374
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 12.7 GeV/c in hydrogen bubble chamber, production of low-mass $K^{+}\omega^{0}$, K^{+}eta^{0}, $p\omega^{0}$, and peta^{0} enhancements and ω^{0} and eta^{0} in, (E), 25:12102
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 3.8 GeV/c in hydrogen bubble chamber, $K^*(1410)$ production from, 21:31533
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 4.6 and 5 GeV/c, resonance production, mass distribution, angular distribution, and cross sections in, (E), 22:52944
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 4.6 and 5.0 GeV/c, cross sections for resonance production in, (E), 22:29627 (IS-T-225)
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-} + \pi^{0}$ at 5.5 GeV/c in hydrogen bubble chamber, total cross sections, resonance production, and quasi-two, -three, and -four body states in, (E), 25:14572
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-} + \pi^{+} + \pi^{-}$ at 12.7 GeV/c, momentum transfer distributions in, (E), 24:24233
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 12.6 GeV/c, diffraction mechanism for anti $K^{*0}(890)\pi^{-}$ and $\Delta^{++}(1236)\pi^{-}$ enhancements in, (E), 23:21058
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 12.7 GeV/c in hydrogen bubble chamber, $K\pi\pi(1280)$ resonance production from, (E), 21:29454
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 12.7 GeV/c in hydrogen bubble chamber, resonance diffractive production in, (E), 25:12102
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 12.7 GeV/c, production and decay of $K^{*0}(890)\pi^{+}$ system from, (E), 23:32628
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 2.0 GeV/c, production of K^*, N^*, and Y^* resonances in, (E), 21:15268
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 2.26 GeV/c in hydrogen bubble chamber, production and decay angular distributions of $K^*(895)$ and $N^*(1238)$ from, 21:37712
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 2.63 and 2.70 GeV/c, resonance production in, (E), 21:7472
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 2.63 and 2.70 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:7440 (COO-1195-45)
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 2.65 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42271
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 2.65 GeV/c in hydrogen bubble chamber, $K^*(891)$ and $N^*(1236)$ production in, 21:37714
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 3.2 GeV/c in hydrogen bubble chamber, $K^*(890)$, $\Delta^{++}(1236)$, and $K^{*0}(890)\pi$ enhancement in, (E), 23:42557 (COO-1195-163)
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 3.8 GeV/c in hydrogen bubble chamber, $K^*(1410)$ production from, 21:31533
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 3.9, 4.6, and 7.3 GeV/c, production of N(1710) and N(1470) in, (E), 24:6695
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 4.3 GeV/c, analysis of Q enhancement in, (E), 25:38664
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{-} + \pi^{+}$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, $K^{-} + \pi^{-}$ interaction cross section evaluation from, 21:31534
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{-} + \pi^{+}$ at 4.6 and 5.0 GeV/c, production of K^*, K^{**}, and Δ resonances in, (E/T), 23:8742
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 4.97 GeV/c in hydrogen bubble chamber, $K^*(1660)$ production from, (E), 22:9516
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 4.97 GeV/c in hydrogen bubble chamber, K^* production from, (E), 22:9517
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 5 GeV/c, final-state distributions and cross sections for, (E), 23:23365
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{+} + \pi^{-}$ at 5.0 GeV/c, one-pion-exchange model for, (E/T), 24:8658
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$ at 5.5 GeV/c, spin—parity analysis of $K^*(890)\pi$ system in Q-region in, (E), 24:51901
interactions $K^{-} + p \rightarrow K^{-} + p + \pi^{-} + \pi^{+}$ at 6 GeV/c, cross sections for $K^*(890)$, $\Delta(1236)$, and $K^*(1420)$ production in, (E), 23:14990
interactions $K^{+} + p \rightarrow K^{+} + p + \pi^{+} + \pi^{-}$, Chew—Low extrapolation of cross sections for $K\pi$ elastic and charge-exchange interactions from, 24:30502 (CONF-690521-, pp 487-507)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 0 to 250 MeV/c in emulsions, total cross section for, (E), 22:17875
interactions $K^{-} + p \rightarrow K^{-} + p$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^{+} + p \rightarrow K^{+} + p$ at 0.355 to 1.970 GeV/c, energy-independent phase shift analysis for, (T), 25:25440
interactions $K^{+} + p \rightarrow K^{+} + p$ at 0.4 to 0.73 GeV/c, p-wave contributions and phase-shift for, (E), 24:45430
interactions $K^{-} + p \rightarrow K^{-} + p$ at 0.4 to 0.73 GeV/c, differential cross sections for, (E), 24:45430
interactions $K^{+} + p \rightarrow K^{+} + p$ at 0.78 to 1.45 GeV/c, partial-wave analysis for Z(1830) production in, (T), 25:25418 (ORO-2504-151)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 0.78 to 1.45 GeV/c, partial-wave analysis for Z(1840) production in, (T), 25:25439
interactions $K^{-} + p \rightarrow K^{-} + p$ at 0.8 to 1.2 GeV/c, model of diffraction and resonant scattering for, 22:5584
interactions $K^{+} + p \rightarrow K^{+} + p$ at 0.9 to 1.5 GeV/c, resonance-like behavior of P_{11} amplitude from phase shift analysis of, (T), 25:25332
interactions $K^{-} + p \rightarrow K^{-} + p$ at 0.98 to 1.34 GeV, anti KN partial-wave amplitudes from, (E/T), 25:9667
interactions $K^{-} + p \rightarrow K^{-} + p$ at 1 to 2.5 GeV/c, wire spark chamber study of differential cross sections for backward, (E), 23:51863
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.0 to 2.45 GeV/c, cross sections for backward, (E), 25:14582
interactions $K^{-} + p \rightarrow K^{-} + p$ at 1.1 to 2.5 GeV/c, differential cross sections for, (E), 25:25325
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.21 to 2.10 GeV/c, review of Z^* production from phase shift analysis and polarization for, (T), 25:25437
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.33 to 2.58 GeV/c, asymmetry measurements for, (E), 25:33561
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.4 to 2.3 GeV/c, differential cross sections for phase shift analysis for, (E/T), 24:37659
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.4 to 2.3 GeV/c, differential cross sections and phase shift analysis for, (E/T), 25:25331
interactions $K^{+} + p \rightarrow K^{+} + p$ at 1.54 and 1.71 GeV/c, wire spark chamber and Cherenkov counter study of asymmetry and differential cross sections and phase shift analysis for, (E/T), 24:12953
interactions $K^{-} + p \rightarrow K^{-} + p$ at 14.25 GeV/c in hydrogen bubble chamber, differential and total cross sections for, (E), 25:19912
interactions $K^{-} + p \rightarrow K^{-} + p$ at 1915 to 2168 MeV, total and differential cross section for, (E), 25:40897
interactions $K^{-} + p \rightarrow K^{-} + p$ at 2.3 GeV/c, absorptive Veneziano model for, 25:1518
interactions $K^{+} + p \rightarrow K^{+} + p$ at 2.4 GeV/c, absorptive Veneziano model for, 25:1518
interactions $K^{+} + p \rightarrow K^{+} + p$ at 2.53 to 3.20 GeV/c in hydrogen bubble chamber, differential and total cross sections with forward and backward peaks and phase shift analysis at 2.50 GeV/c for, (E), 24:21935 (COO-1195-175)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 2.53 to 3.20 GeV/c in hydrogen bubble chamber, enhancement at 2.505 GeV/c and phase shift analysis for, (E), 24:40260 (COO-1195-191)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 2.53 to 3.20 GeV/c in hydrogen bubble chamber, differential cross sections for, (E), 25:1407 (COO-1195-196)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 2.53 to 3.20 GeV/c in hydrogen bubble chamber, differential and total cross sections for, (E), 25:12115
interactions $K^{+} + p \rightarrow K^{+} + p$ at 270 MeV in nuclear emulsions, angular distributions for, 25:53034
interactions $K^{+} + p \rightarrow K^{+} + p$ at 3, 3.5, and 5 GeV/c, cross sections for, (E/T), 21:7468
interactions $K^{-} + p \rightarrow K^{-} + p$ at 3.55 GeV/c near 180°, spark chamber and scintillation and Cherenkov counter study of backward, (E), 23:23358 (CEA-R-3685)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 3.55 GeV/c near 180°, spark chamber and scintillation and Cherenkov counter study of backward, (E), 23:23358 (CEA-R-3685)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 3.55 GeV/c, backward elastic, (E), 21:18920
interactions $K^{-} + p \rightarrow K^{-} + p$ at 3.55 GeV/c, backward elastic, (E), 21:18920
interactions $K^{-} + p \rightarrow K^{-} + p$ at 3.55 GeV/c, spark chamber study of differential cross section for, (E), 23:23372
interactions $K^{+} + p \rightarrow K^{+} + p$ at 3.55 GeV/c, spark chamber study of differential cross section for, (E), 23:23372
interactions $K^{+} + p \rightarrow K^{+} + p$ at 3.55 to 6.9 GeV/c spark chamber study of differential cross sections for, (E), 25:9684
interactions $K^{-} + p \rightarrow K^{-} + p$ at 3.55 to 6.9 GeV/c, spark chamber study of differential cross sections for, (E), 25:9684
interactions $K^{+} + p \rightarrow K^{+} + p$ at 4.0 and 5.0 GeV/c, differential cross sections for large-angle, (E), 25:43559
interactions $K^{+} + p \rightarrow K^{+} + p$ at 4.98 GeV/c in hydrogen bubble chamber, constructive interference in, (E), 24:24255
interactions $K^{-} + p \rightarrow K^{-} + p$ at 430 to 800 MeV/c, partial-wave analysis of, (E), 24:5255
interactions $K^{-} + p \rightarrow K^{-} + p$ at 5.9 to 9.8 GeV/c, scintillation counter telescope and optical spark chamber study of cross sections for, (E), 22:39271 (CERN-68-7(Vol.1), pp 571-9)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 594 to 820 MeV/c, differential cross sections for, (E), 23:18815
interactions $K^{+} + p \rightarrow K^{-} + p$ at 6 GeV/c, Cherenkov counter study of polarization parameter for, (E), 24:24227
interactions $K^{-} + p \rightarrow K^{-} + p$ at 6 GeV/c, Cherenkov counter study of polarization parameter for, (E), 24:24227
interactions $K^{-} + p \rightarrow K^{-} + p$ at 6 to 14 GeV/c, scintillation counter and optical spark chamber study of, (E), 23:46621
interactions $K^{+} + p \rightarrow K^{+} + p$ at 6 to 18 GeV, polarization parameters for, (E), 25:33552 (NP-18830)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 6 to 18 GeV, polarization parameters for, (E), 25:33552 (NP-18830)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $K^{+} + p \rightarrow K^{+} + p$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $K^{-} + p \rightarrow K^{-} + p$ at 600 to 1200 MeV/c, partial wave amplitudes for analysis of, (E/T), 23:8749
interactions $K^{+} + p \rightarrow K^{+} + p$ at 7.3 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:14574
interactions $K^{-} + p \rightarrow K^{-} + p$ at 777 to 1226 MeV/c, partial and differential cross sections for, (E), 23:10762
interactions $K^{+} + p \rightarrow K^{+} + p$ at 780 MeV/c in hydrogen bubble chamber, proton polarization in, 21:33616
interactions $K^{+} + p \rightarrow K^{+} + p$ at 780 MeV/c, phase shift analysis for elastic, (E), 21:18919
interactions $K^{-} + p \rightarrow K^{-} + p$ at 780 to 1220 MeV/c, resonance production from, (T), 22:5507
interactions $K^{+} + p \rightarrow K^{+} + p$ at 80 to 280 MeV/c in hydrogen bubble chamber, differential cross sections for, (E), 22:34850
interactions $K^{-} + p \rightarrow K^{-} + p$ at 800 to 1200 MeV/c, differential cross sections for, (E/T), 23:39607 (AD-687143)
interactions $K^{-} + p \rightarrow K^{-} + p$ at 800 to 1200 MeV/c, partial-wave analysis of, (E/T), 25:59293
interactions $K^{+} + p \rightarrow K^{+} + p$ at 860 to 1210 MeV/c, partial-wave analysis of, (T), 24:40387 (UCRL-19787)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 864 MeV/c in hydrogen bubble chamber, proton polarization in double scattering from, (E), 23:51861 (UCRL-19278)
interactions $K^{+} + p \rightarrow K^{+} + p$ at 864 to 1207 MeV/c in hydrogen bubble chamber, differential cross sections for, (E), 23:42572
interactions $K^{+} + p \rightarrow K^{+} + p$ at 864 to 1207 MeV/c, partial-wave analysis of, 23:42672 (UCRL-19231)
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, compilation of polarization data and exchange-degenerate Regge pole model for, (E/T), 25:53186
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, compilation of polarization data and exchange-degenerate Regge pole model for, (E/T), 25:53186
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, constancy of total cross sections for, (T), 25:12210
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, predictions of quark model for large-angle, 23:21096
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, predictions of quark model for large-angle, 23:21096
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, Regge pole—cut model for analysis of, 25:56505
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, Regge-pole eikonal theory of small-angle, 23:25639
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, Regge-pole eikonal theory of small-angle, 23:25639
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, SU(3) inequalities for amplitude differences for, 21:21287
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, SU(3) inequalities for amplitude differences for, 21:21287
interactions $K^{+} + p \rightarrow K^{+} + p$ at high energies, unitarity conditions for imaginary part of amplitude for large-angle, 22:13743
interactions $K^{-} + p \rightarrow K^{-} + p$ at high energies, unitarity condition for imaginary part of amplitude for large-angle, 22:13743
interactions $K^{+} + p \rightarrow K^{+} + p$ at high finite energies, Regge pole theory and exchange degeneracy for phases with $K^{-} + n \rightarrow K^{-} + n$ interactions for, 24:10755
interactions $K^{-} + p \rightarrow K^{-} + p$ at high finite energies, Regge pole theory and exchange degeneracy for phases with $K^{-} + n \rightarrow K^{+} + n$ interactions for, 24:10755
interactions $K^{+} + p \rightarrow K^{+} + p$ at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions $K^{-} + p \rightarrow K^{-} + p$ at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions $K^{+} + p \rightarrow K^{+} + p$ at low, intermediate, and high energies, Veneziano model for, 25:7656 (IFT-70/5)
interactions $K^{+} + p \rightarrow K^{+} + p$ at threshold to 19 GeV/c, energy-independent phase-shift analysis for Z^* production in, (T), 25:25438
interactions $K^{-} + p \rightarrow K^{-} + p$ below 1.4 GeV/c, Veneziano dips in angular distributions of, 25:14724
interactions $K^{-} + p \rightarrow K^{-} + p$ below 280 MeV/c, angular distribution and cross sections for, (E), 21:878 (NEVIS-149)

interactions $K^+ + p \rightarrow K^+ + p$, compilation of differential and total cross sections, polarization and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions $K^- + p \rightarrow K^- + p$, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions $K^+ + p \rightarrow K^+ + p$, current algebra and vector meson dominance for s-wave scattering length for, 23:18890
interactions $K^+ + p \rightarrow K^+ + p$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \rightarrow K^- + p$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^+ + p \rightarrow K^+ + p$, diffraction model for forward peaks in, 24:37799
interactions $K^+ + p \rightarrow K^+ + p$, exchange degeneracy in, 24:52092
interactions $K^- + p \rightarrow K^- + p$, exchange degeneracy in, 24:52092
interactions $K^- + p \rightarrow K^- + p$, Regge quark model for, (T), 25:25450
interactions $K^+ + p \rightarrow K^+ + p$, Regge quark model for, (T), 25:25450
interactions $K^+ + p \rightarrow K^+ + p$, search for $S = +1$ resonances in, (E), 25:25286
interactions $K^+ + p \rightarrow K^+ +$ phi $+ p$ at 4.6 and 9.0 GeV/c, (E), 23:18819
interactions $K^+ + p \rightarrow K^+ +$ phi $+ p$ at 4.9 and 9 GeV/c in bubble chamber, meson (phi) production in, (E/T), 22:50295 (UCRL-18321)
interactions $K^+ + p \rightarrow K^+ + \pi^0 +$ negative-parity isobar, cuts in complex l-plane for, (T), 22:20248
interactions $K^+ + p \rightarrow K^+ + \pi^0 + p$, cutoffs in complex l-plane for, 21:31590 (JINR-P2-3337)
interactions $K^+ + p \rightarrow K^+ + \pi^0 + p$, dual + Pomeron analysis of, 25:59490
interactions $K^- + p \rightarrow K^- + \pi^0 + p$, dual + Pomeron analysis of, 25:59490
interactions $K^- + p \rightarrow K^- + \pi^0 + p$, kinematics of momentum transfers in, (T), 22:48316
interactions $K^- + p \rightarrow K^+ + \pi^0(\pi^-) + \Xi^-(\Xi^0)$ at 1.8 to 4.2 GeV/c in bubble chamber, single-meson exchange for forward peaks in differential cross sections for $\Xi^-(1530)$ production in, (E), 23:42573
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}$ (1236) at 4.6 and 9 GeV/c, one pion exchange modified by absorption effects in, (T), 22:34983 (UCRL-18201)
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}$ at 2.5 to 5.0 GeV, rotation of symmetry axis in $K + \pi$ interactions from, 25:59502
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}$ at 5.43 GeV/c in bubble chamber, $K^{*0}\pi^+$ enhancement production and $K^+ + \pi^- \rightarrow K^+ + \pi^-$ interaction cross sections from, (E), 25:17381
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}$ interactions, total cross section and phase shifts from Chew—Low extrapolation of, 24:30503 (CONF-690521-, pp 508-19)
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}$, $K\pi$ phase shifts from Chew—Low extrapolation of, 25:56486
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}(1236)$ at 9 GeV/c, double-peripheral model analysis of, (E/T), 25:14714
interactions $K^+ + p \rightarrow K^+ + \pi^- + \Delta^{++}(1236)$ at 9 GeV/c, $K\pi$ mass spectrum in, (E), 24:49342
interactions $K^+ + p \rightarrow K^+ + \pi^+ + n$ at 3 GeV/c, double-peripheral model for differential cross sections for, 22:29701
interactions $K^- + p \rightarrow K^- + \pi^+ + n$ at 4.57 GeV/c, $K^*(890)$ and $K^*(1420)$ production in, (E), 23:14972
interactions $K^- + p \rightarrow K^- + \pi^+ + n$ at 5 to 16 GeV/c, generalized Veneziano model for π exchange in, 25:25445
interactions $K^- + p \rightarrow K^- + \pi^+ + n$ at 5.5 GeV/c, S-wave phase shifts for, (E), 25:36413
interactions $K^+ + p \rightarrow K^+ + \pi^+ + n$ at 7.3 GeV/c in hydrogen bubble chamber, cross sections and $\Delta(1236)$, $K^*(890)$, and $K^*(1420)$ production in, (E), 25:14574
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^*$ at 5 GeV/c in bubble chamber, exchange mechanism in, (E), 24:5250
interactions $K^+ + p \rightarrow K^+ + \pi^+ + n$, crossing-symmetric description of, 25:50141
interactions $K^- + p \rightarrow K^- + \pi^+ + n$, crossing-symmetric description of, 25:50141
interactions $K^- + p \rightarrow K^- + \pi^+ + n$, $K + \pi$ helicity amplitudes from, (E), 24:30456 (CONF-690521-, pp 446-76)
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*++}$ at 5 GeV/c as test of double peripheral model, (E/T), 24:12948 (INP-682, pp 168-204)
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*++}$ at 5 GeV/c, double-peripheral model for analysis of four-momentum transfer distributions in, (E/T), 24:15587
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*++}$ at 5 GeV/c, double-peripheral model and four-momentum transfer distributions in, (E/T), 24:49512
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*++}$ at 5 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*--}$ at 5 to 16 GeV/c, generalized Veneziano model for π exchange in, 25:25445
interactions $K^- + p \rightarrow K^- + \pi^- + N^{*++}$ at 6 GeV/c, double peripheral mechanism for, (E/T), 23:27755
interactions $K^+ + p \rightarrow K^+ + \pi^- + N^{*++}$, method for $K\pi$ phase shift analysis for, 22:1443
interactions $K^- + p \rightarrow K^- + \pi^- + \pi^+ + p + \pi^0$ at 4.6 and 5.0 GeV/c, A_1^0 production in, (E), 22:7449
interactions $K^+ + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 10 GeV/c in hydrogen bubble chamber, spin—parity analysis of $K^+\pi^+\pi^-$ system as K(1250) and K(1380) in, (E), 25:40900
interactions $K^+ + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 10 GeV/c in hydrogen bubble chamber, K(1250), K(1380), and L(1800) production in $K^+\pi^+\pi^-$ effective mass spectrum in, (E), 25:40901
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 10.1 GeV/c in hydrogen bubble chamber, L(1780) production in, (E), 24:51964
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 12 GeV/c, resonance shape fits to $K^*(1420)$ and $K^*(890)$ production in, (E), 24:1520
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 12.6 GeV/c, analysis of $K\pi\pi$ spectrum in, (E/T), 24:49503
interactions $K^+ + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 2.53 to 3.20 GeV/c, production cross sections and decay angular distributions for $K^{*0}(890)$ and $\Delta^{++}(1236)$ from, (E), 24:37660
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 2.75 and 3.2 GeV/c, differential cross sections for, (E), 22:48224 (COO-1195-130)
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 3 GeV/c, one-pion-exchange model for $K^*(891)$ production in, (E/T), 24:15497
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:13652 (COO-1195-111)
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 4.6 and 9 GeV/c in hydrogen bubble chamber, $K^{*0}(890)$ $\Delta^{++}(1236)$ and $K^{*0}(1420)$ $\Delta^{++}(1236)$ double resonance and $\Delta^{++}(1236)\pi^-$ and $K^+\pi^-(1100)$ enhancement production in, (E), 25:3271 (UCRL-19809)
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 4.6 and 9 GeV/c in hydrogen bubble chamber, resonance production in, (E), 25:45673
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 4.6 GeV/c in hydrogen bubble chamber, L(1745) production in, (E), 24:37652
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 5.5 GeV/c in hydrogen bubble chamber, resonance production in anti $K\pi\pi$ system in, (E), 22:29637
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^- + p$ at 5.5 GeV/c, generalized Deck effect and anti $K^{**}(1300)$ production in, (E), 22:11589
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 5.5 GeV/c, interference analysis of production and decay of $K^*(1400)$ in, (E), 23:8740
interactions $K^+ + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 5.5 GeV/c, production of $p\pi^+\pi^-(1450)$ enhancement in, (E), 23:8755
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 7.3 GeV/c, cross section, angular distributions, and $K + \pi$ interaction study from, (E), 23:13037
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 7.38 GeV/c, spin and parity of $K\pi\pi$ system in, (E), 23:5535
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$ at 9 GeV/c in hydrogen bubble chamber, K^* (1250) production from, (E), 21:46487
interactions $K^+ + p \rightarrow K^+ + \pi^+ + \pi^- + p$ at 9 GeV/c, production and decay of $K\pi\pi(1260)$ and $K\pi\pi(1380)$ enhancements in, (E), 24:3540
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$, analysis of $K + \pi$ interactions from, 23:49146
interactions $K^+ + p \rightarrow K^+ + \pi^- + \pi^+ + p$, $\pi\pi$ systems in decay of low-mass $K\pi\pi$ enhancement in, (T), 24:21983
interactions $K^- + p \rightarrow K^- + \pi^- + \pi^+ + \pi^0 + p$ at 4.6 and 5.0 GeV/c, 3π (960) enhancement in, (E), 22:39282
interactions $K^- + p \rightarrow K^- + \pi^- + \pi^+ + \pi^0 + p$ at 4.6 and 5.0 GeV/c, cross sections and resonance contributions in, (E), 24:3529
interactions $K^- + p \rightarrow K^- + \pi^- + \pi^+ + \pi^+ + n$ at 4.6 and 5.0 GeV/c, 3π (960) enhancement in, (E), 22:39282
interactions $K^- + p \rightarrow K^- + \pi^- + \pi^+ + \pi^+ + n$ at 4.6 and 5.0 GeV/c, cross sections and resonance contributions to, (E), 24:3529
interactions $K^- + p \rightarrow K^- + \pi^+ + \pi^-$ at 5.5 GeV/c in hydrogen bubble chamber, study of anti $K\pi\pi$ system in, 21:21138 (COO-1195-85)
interactions $K^- + p \rightarrow K^+ + \Xi^-$ and $K^- + p \rightarrow K^0 + \Xi^0$ at 1.26 to 1.84 GeV/c, total and differential cross sections and resonance production in, (E), 23:10758
interactions $K^- + p \rightarrow K^+ + \Xi^-$ at 8 and 16 GeV/c, upper limits for Ξ^{-*} production in, (E), 24:18079
interactions $K^- + p \rightarrow K^+ + \Xi^-$ at high energies, two-Reggeon cuts and exotic exchange in, (T), 25:59618
interactions $K^- + p \rightarrow K^+ + \Xi^-$ at intermediate energies, two-meson exchange peripheral model for backward, (T), 25:41006
interactions $K^- + p \rightarrow K^+ + \Xi^-$ interactions at high energies, two-Reggeon exchange contributions to, (T), 25:14657 (UCRL-20032)
interactions $K^- + p \rightarrow K^+ + \Xi^-$, quark model and multiple-scattering formalism for, 22:52985
interactions $K^- + p \rightarrow K^+ + \Xi^-$, Regge pole model for double charge-exchange in, 22:46400
interactions $K^- + p \rightarrow K^+ + \Xi^-$, relativistic extension of SU(6) for, 23:16982
interactions $K^+ + p \rightarrow K^+(890) + p$ at high energies, factorizable quark model for amplitude of, (T), 25:30879
interactions $K^- + p \rightarrow K^-(890) + p$ at high energies, factorizable quark model for amplitude of, (T), 25:30879
interactions $K^- + p \rightarrow K^-$(anti K^0) + p(n) at 449 to 671 MeV/c in hydrogen bubble chamber, cross sections and angular distributions for, (E), 24:32970
interactions $K^- + p \rightarrow K^-$(anti K^0) + p(n) near 1.670 GeV in hydrogen bubble chamber, differential cross sections for, (E), 25:59281
interactions $K^+ + p \rightarrow K^+(K^0) + \pi^-(\pi^0) + \Delta^{++}$ at 12.7 GeV/c in hydrogen bubble chamber, $K^+ + \pi^- \rightarrow K^+(K^0) + \pi^-(\pi^0)$ interactions in, (E), 25:19914
interactions $K^+ + p \rightarrow K^+(K^0) + \pi^-(\pi^0) + \pi^+ + p$ at 10 GeV/c, low-mass enhancements in $K\pi\pi$ spectrum from, (E), 25:9679
interactions $K^+ + p \rightarrow K^+(K^0) + \pi^-(\pi^0)$, $K^+ + p \rightarrow K^+(K^0) + \pi^-(\pi^0) + \Delta^{++}$ interactions at 12.7 GeV/c in hydrogen bubble chamber for, (E), 25:19914
interactions $K^- + p \rightarrow K^{*0}(890) + n$ at 11.2 GeV/c, cross sections and density matrix elements for, (E), 22:48232
interactions $K^- + p \rightarrow l^+ + l^- + n$, radiative corrections for vector meson production and decay in, (T), 22:32070
interactions $K^+ + p \rightarrow L^+(1780) + p$ at 12 GeV/c in bubble chamber, production of L^+ enhancement in, (E), 23:34539
interactions $K^- + p \rightarrow \Lambda + 2\pi^+ + 2\pi^- + \pi^0$ at 4.6 GeV/c in hydrogen bubble chamber, production and decay of meson resonance at 1695 MeV in, (E), 23:36849
interactions $K^- + p \rightarrow \Lambda + 2\pi^- + 2\pi^+ + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, strangeness-zero meson production from, (E), 22:7447
interactions $K^- + p \rightarrow \Lambda + 2\pi^- + 2\pi^+$ at 6 GeV/c in hydrogen bubble chamber, strangeness-zero meson production from, (E), 22:7447
interactions $K^- + p \rightarrow \Lambda + 5\pi$ at 4.25 GeV/c in hydrogen bubble chamber, mass and width of $\omega\pi\pi(1670)$ resonance in, (E), 24:15478
interactions $K^- + p \rightarrow \Lambda +$ anti $p + p$, generalized Veneziano model analysis of, (T), 25:53190
interactions $K^- + p \rightarrow \Lambda + D^0(1285)$, $D^0(1285)$ - $\pi(980) + \pi$ at 5.5 GeV/c, cross sections for, (E), 24:45439
interactions $K^- + p \rightarrow \Lambda + e^+ + e^-$, CP-noninvariant polarization in, 21:17123
interactions $K^- + p \rightarrow \Lambda +$ eta at 1.2 to 1.7 GeV/c, total and differential cross sections for, (E), 22:5511
interactions $K^- + p \rightarrow \Lambda +$ eta at 1.22, 1.51, and 1.7 GeV/c, model with K^* and n exchange for, (E/T), 22:32158
interactions $K^- + p \rightarrow \Lambda +$ eta' at 1.70 to 2.65 GeV/c in bubble chamber, (E), 23:39611 (UCRL-18863)
interactions $K^- + p \rightarrow \Lambda +$ eta' at 1.70 to 2.65 GeV/c, cross sections and eta' spin and parity from, (E), 25:5291
interactions $K^- + p \rightarrow \Lambda +$ eta' at 3 GeV/c, $I = 0$ eta$\pi\pi$ and rhoγ enhancements in, (E), 22:29635
interactions $K^- + p \rightarrow \Lambda +$ eta at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \rightarrow \Lambda +$ eta at 740 MeV/c in hydrogen bubble chamber, cross section for, 21:40138 (ORO-3065-14)
interactions $K^- + p \rightarrow \Lambda +$ eta at 740 MeV/c, differential cross section and branching ratios for eta decay in, (E), 23:14987
interactions $K^- + p \rightarrow \Lambda +$ eta at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $K^- + p \rightarrow \Lambda +$ eta near threshold, Dalitz plot density of eta $\rightarrow \pi^+ + \pi^- + \pi^0$ decay from, (E), 24:32958
interactions $K^- + p \rightarrow \Lambda +$ eta, eta decay asymmetry from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $K^- + p \rightarrow \Lambda +$ eta, resonance production in, (E), 23:34538
interactions $K^- + p \rightarrow \Lambda + f^0$ at 5.5 GeV/c in hydrogen bubble chamber, (E), 22:1391
interactions $K^- + p \rightarrow \Lambda + K +$ anti $K + m\pi$ at 10 GeV/c, multiperipheral Regge exchange model for momentum distributions in, (E/T), 23:36837
interactions $K^- + p \rightarrow \Lambda + K^+ + K^-$ at 3.3 GeV/c in hydrogen bubble chamber, phi(1020) production properties and Λphi density matrix in, (E), 25:45675
interactions $K^- + p \rightarrow \Lambda + K^+ + K^-$ at 3.3 GeV/c, test of generalized Veneziano model from, 25:28042
interactions $K^+ + p \rightarrow \Lambda + K^+ + K^+$ at 7.3 GeV/c in hydrogen bubble chamber, (E), 25:14574
interactions $K^+ + p \rightarrow \Lambda + K^+ + K^+$ at 7.3 GeV/c, double-Regge model for peripheral production in, (E/T), 25:25336
interactions $K^- + p \rightarrow \Lambda +$ neutrals at 270 to 470 MeV/c, electromagnetic decay of $Y_0^*(1520)$ in, (E), 23:5520
interactions $K^- + p \rightarrow \Lambda + n\pi$ at 6 GeV ($n = 2$ to 5), Reggeized multiperipheral model for, 23:18902
interactions $K^- + p \rightarrow \Lambda + \omega$ at 1.2 to 2.7 GeV/c, absorption model with strange-meson exchange for, 21:25242
interactions $K^- + p \rightarrow \Lambda + \omega$ at 1.2 to 2.7 GeV/c, differential cross section and decay-correlation parameters for, (E), 21:25242
interactions $K^- + p \rightarrow \Lambda + \omega$ at 1.2 to 2.7 GeV/c, $\omega \rightarrow \pi^+ + \pi^-$ decay branching ratio from, (E), 24:24239
interactions $K^- + p \rightarrow \Lambda + \omega$ at 3 GeV/c, differential cross sections for, (E), 25:1423
interactions $K^- + p \rightarrow \Lambda + \omega$ at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \rightarrow \Lambda +$ phi at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, phi production from, 21:33619
interactions $K^- + p \rightarrow \Lambda +$ phi at 3 GeV/c, differential cross sections for, (E), 25:1423
interactions $K^- + p \rightarrow \Lambda +$ phi at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \rightarrow \Lambda +$ phi at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Lambda + \pi$ and $K^- + p \rightarrow \Sigma + \pi$ in quark model, Λ to Σ ratio in, 22:17967
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1 GeV/c, direct-channel resonances, background exchange amplitudes, angular distributions, Λ cross sections, and $\Lambda\pi^0$ cross sections for, (E), 24:3526
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1.0 to 1.85 GeV/c, partial-wave analysis of, (T), 25:25435
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1.26 to 1.84 GeV/c in bubble chamber, cross sections and production of $\Sigma(1770)$, $\Sigma(1910)$, and $\Sigma(2030)$ in, (E), 25:25323
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1.6 to 1.7 GeV, angular distributions for, (E), 21:7465(R) (NYO-3178-3)

interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1.865 to 2.001 GeV in hydrogen bubble chamber, properties of Σ(1910) from, (E), 25:9659 (UCRL-19789)
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 1915 to 2168 MeV, differential cross sections and polarizations in, (E), 25:1418
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 350 to 430 MeV/c, partial-wave amplitudes, cross sections, and polarizations for, (E/T), 24:37658
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 449 to 671 MeV/c in hydrogen bubble chamber, upper limit for elasticity of Σ(1616) in, (E), 24:32970
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 594 to 820 MeV/c, differential cross sections for, (E), 23:18815
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 600 to 1200 MeV/c, energy independent partial-wave analysis of, (E/T), 23:8748
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 637 to 793 MeV/c, partial-wave analysis of, 25:47870
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at 850 to 1150 MeV/c in hydrogen bubble chamber, exchange amplitude contributions to, (E), 22:50297 (UCRL-18411)
interactions $K^- + p \rightarrow \Lambda + \pi^0$ at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^0 + \pi^-$ and $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 2.1 to 2.7 GeV/c, cross sections and angular distributions for resonance production in, (E), 23:7091
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^0 + \pi^-$ at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, Σ(1385) and rho production from, (E), 22:15682 (UCRL-18041)
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ + neutrals at 1.2 to 1.7 GeV/c in hydrogen bubble chamber, eta decay branching ratio for, (E), 21:29425
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^- + \pi^0$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, Σ^+(1660) production in, (E), 23:42570
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^- + \pi^0$ at 4.6 GeV/c in hydrogen bubble chamber, production and decay of meson resonance at 1695 MeV in, (E), 23:36849
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^- + \pi^0$ at 5.5 GeV/c, production and decay of X^0(959) in, (E), 22:48237
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 1.2 to 1.7 GeV in bubble chamber, resonance production and decay in, (E), 23:36850
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 1.38 GeV/c in hydrogen bubble chamber, Σ(1385) production in, (E), 23:32622
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 1.5 GeV/c, Y_1^*(1385) parity and spin from, (E), 21:17055
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 1.7 GeV/c, production and decay of Σ(1660) from, (E), 22:52941
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, Σ(1385) and rho production from, (E), 22:15682 (UCRL-18041)
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 3.3 GeV/c in hydrogen bubble chamber, decay angular properties of $\pi^+\pi^-$ system and Σ^+(1385) density matrix in, (E), 25:45675
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 375 and 415 MeV/c, Σ(1385) production from Λ(1520) decay in, (E), 24:42878 (NYO-3651-13)
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 670 to 910 MeV, cross sections for Σ(1690) production in, (E), 22:52939
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at 850 to 1150 MeV/c in hydrogen bubble chamber, Σ(1385), Σ(1770) , and Λ(1820) production in, (E), 23:23362 (UCRL-18624)
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$ at rest in hydrogen bubble chamber, relative parity of K^- and Λ anti p system from, (E), 21:44275(R) (ORO-2504-107)
interactions $K^- + p \rightarrow \Lambda + \pi^+ + \pi^-$, Σ(1660) production and sequential decay from, (E), 22:48231
interactions $K^- + p \rightarrow \Lambda$ + rho^0 at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \rightarrow \Lambda + X^0$ at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \rightarrow \Lambda + X^0$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Lambda\ (\Sigma^0) + \pi^0$ at 375 and 415 MeV/c in hydrogen bubble chamber, cross sections, polarization Legendre coefficients, and upper limit for Λ^0/Σ^0 isospin mixing parameter for, (E), 24:32973
interactions $K^- + p \rightarrow \Lambda + (n - 1)\pi\ (3 < n < 9)$ at 5 to 16 GeV/c, Reggeized multipheral model for, 22:46427
interactions $K^- + p \rightarrow \Lambda(1520) + \pi$, $\Lambda(1520) \rightarrow \Sigma(1385) + \pi$, at 777 to 1226 MeV/c, mass and angular distributions for, (E), 25:22693
interactions $K^- + p \rightarrow \Lambda(1520) + \pi^0$ at 3.5 GeV/c, one-baryon exchange model for, 23:21115
interactions $K^- + p \rightarrow \Lambda(1520) + \pi^0$, rescattering model for production angular distributions from, 22:50404
interactions $K^- + p \rightarrow \Lambda(\Sigma) + \pi$ at 436 to 793 MeV/c, differential cross sections and polarizations for, (E), 25:1422
interactions $K^- + p \rightarrow \Lambda(\Sigma^0) + \pi^+ + \pi^-$ at 3.9 to 5.0 GeV/c in hydrogen bubble chamber, Σ^{+*} production in, (E), 25:59284
interactions $K^- + p \rightarrow \Lambda^0 + 2\pi^0$ at 1660 MeV in heavy-liquid bubble chamber, baryon resonance production in, (E), 25:38661 (LAL-RI-71-2)
interactions $K^- + p \rightarrow \Lambda^0 + 6\pi(+ \pi^0)$ at 3.9 GeV/c in hydrogen bubble chamber, Goldhaber effect in cross sections and production mechanisms for, (E), 25:40880 (NP-18879)
interactions $K^- + p \rightarrow \Lambda^0$ + eta at 740 MeV/c in bubble chamber, (E), 22:34834
interactions $K^- + p \rightarrow \Lambda^0 + \pi^0$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ + neutrals at 4.6 GeV/c, production of X^-(975) in, (E), 23:1591 (BNL-12803)
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^- + \pi^0$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^- + \pi^0$ at 776 to 1200 MeV/c in hydrogen bubble chamber, Λ^0 lifetime determination from, (E), 22:20119
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ at 1660 MeV in heavy-liquid bubble chamber, separation from K^- reactions with nuclei, cross sections, and Σ^+(1385) and Σ^-(1385) production in, (E), 25:38661 (LAL-RI-71-2)
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, Σ(1700) production in, (E), 23:42570
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chambers, production of Y_1^*(1700) in, 21:25246
interactions $K^- + p \rightarrow \Lambda^0 + \pi^+ + \pi^-$ at 776 to 1200 MeV/c in hydrogen bubble chamber, Λ^0 lifetime determination from, (E), 22:20119
interactions $K^- + p \rightarrow \Lambda^0\ (\Sigma^0) + \pi^+ + \pi^-$ at 4.6 to 5.0 GeV in hydrogen bubble chamber, Σ(1660) and Σ(1695) production in, (E), 22:20139
interactions $K^- + p \rightarrow \Lambda^0(\Sigma)$ + K + anti K at 2.9 GeV/c in bubble chamber, cross sections and production of Ξ(1530), phi, Ξ(1860), and K anti K(1032) enhancement in, (E), 25:25310 (ORO-2504-170)
interactions $K^- + p \rightarrow \Lambda^0(\Sigma^0) + \pi^0$ at 1660 MeV in heavy-liquid bubble chamber, baryon resonance production in, (E), 25:38661 (LAL-RI-71-2)
interactions $K^- + p \rightarrow n$ + anti $K^0 + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 6 GeV/c, cross sections for K^*(890) and Δ^-(1236) production in, (E), 25:40892
interactions $K^- + p \rightarrow n$ + anti $K^0 + \pi^+ + \pi^-$ at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, resonance production and total cross sections for, (E), 23:27748 (UCRL-18860)
interactions $K^- + p \rightarrow n$ + anti K^0 at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow n + K^{*0}(890)$ at 4.1 to 10 GeV/c, natural and unnatural parity exchange contributions to cross sections for, (T), 22:46458
interactions $K^+ + p \rightarrow n + K_1^0 + \pi^+ + \pi^+$, $K\pi\pi$ enhancement in, (E), 24:37650 (UR-875-312)
interactions $K^- + p \rightarrow n + K_1^0 + \pi^- + \pi^+$, $K\pi\pi$ enhancement in, (E), 24:37650 (UR-875-312)
interactions $K^- + p \rightarrow n + K^- + \pi^+$ at 10 GeV/c, Veneziano model with π and Pomeron exchange for, (T), 25:3386
interactions $K^- + p \rightarrow n + K^- + \pi^+$ at 3 GeV/c in hydrogen bubble chamber, anti K^{*0} production and $K^-\pi^+$-decay asymmetry for S-wave in, (E), 24:3549
interactions $K^- + p \rightarrow n + K^- + \pi^+$ at 50 and 100 GeV/c, spectrometer study of, (E), 24:37639 (COO-1428-210)
interactions $K^+ + p \rightarrow n + K^+ + \pi^+$ at 50 and 100 GeV/c, spectrometer study of, (E), 24:37639 (COO-1428-210)
interactions $K^- + p \rightarrow N + \pi + K^*$ peripheral model for πK^* enhancement in, (T), 22:24664
interactions $K^- + p \rightarrow n$ rho^0 + Y, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions $K^+ + p \rightarrow N^{*++} + K^*(890)$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^+ + p \rightarrow N^{*++} + K^0$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^- + p \rightarrow n\pi + Y$, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions $K^- + p \rightarrow \Omega^- + M_1$ (1280), Ω^- parity and spin from, (T), 21:2467
interactions $K^- + p \rightarrow p + (K\pi)^-$, multiple-scattering theory for, 24:1591
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^0 + \pi^-$ at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, resonance production and total cross sections for, (E), 23:27748 (UCRL-18860)
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^+ + \pi^- + \pi^- + \pi^0$ at 6 GeV/c, cross sections for K^*(890), Δ^{++}(1236), and ω production in, (E), 25:40892
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^+ + \pi^- + \pi^-$ at 6 GeV/c, cross sections for K^*(890), Δ^{++}(1236), and rho^0 production in, (E), 25:40892
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, resonance production and total cross sections for, (E), 23:27748 (UCRL-18860)
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 3 to 10 GeV/c, differential cross sections from five-point Veneziano model for, (E/T), 24:52108
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, mass spectra for Σ^+(1670) production in, (E), 25:25326
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, Σ^+(1660) production in, (E), 23:42570
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 4.6 to 5.0 GeV in hydrogen bubble chamber, Σ(1660) and Σ(1695) production in, (E), 22:20139
interactions $K^- + p \rightarrow p$ + anti $K^0 + \pi^-$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow p + K + 2\pi$ at 4.6 and 5.0 GeV/c, exchange diagrams with diffraction scattering at lower vertex for nonresonant $K\pi\pi$(1300) mass enhancement in, (T), 24:15582
interactions $K^+ + p \rightarrow p + K + \pi + \pi$ at 12.7 GeV/c, spin-parity assignment for $K\pi\pi$(1300) from, (E/T), 22:48229 (UR-875-251)
interactions $K^- + p \rightarrow p + K^* + \pi$, final-state interaction effect on K^*(1320) production in, (T), 23:49158
interactions $K^+ + p \rightarrow p + K^{*0}(890) + \pi^+$, $K^{*0} \rightarrow K^+ + \pi^-$ at 5.44 GeV/c, diffraction dissociation in, (E), 23:10755
interactions $K^+ + p \rightarrow p + K^{*+}(890)$ at 10 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:39274 (CERN-68-7(Vol.2), pp 121-34)
interactions $K^+ + p \rightarrow p + K^{*+}(890)$ at 12.7 GeV/c, density matrix elements for K^{*+}(890) decay from, (E/T), 22:48229 (UR-875-251)
interactions $K^- + p \rightarrow p + K^{*-}(890)$ at 4.1 to 10 GeV/c, natural and unnatural parity exchange contributions to cross sections for, (T), 22:46458
interactions $K^+ + p \rightarrow p + K^{*+}(890)$, $K^{*+}(890) \rightarrow K^0 + \pi^+$ at 12.7 GeV/c in hydrogen bubble chamber, cross sections and production mechanism for, (E), 25:19914
interactions $K^+ + p \rightarrow p + K^{*+}(890)$, $K^+ + p \rightarrow K^0 + N^{*++}(1236)$, and $K^+ + p \rightarrow K^{*0}(890) + N^{*++}(1236)$ at 12.7 GeV/c, density matrix elements and momentum transfer spectra for, (E), 23:10760
interactions $K^- + p \rightarrow p + K^- + 2\pi^+ + 2\pi^-$ at 3.95 GeV/c in hydrogen bubble chamber, parametrization for, (E), 25:30743
interactions $K^- + p \rightarrow p + K^- + M^0(953)$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, mass and width of M(953) in, (E), 25:9683
interactions $K^+ + p \rightarrow p + K^+ + \pi^+ + \pi^-$ at 50 GeV/c, performance of proposed 25-foot bubble chamber for study of simulated, 24:50591 (TID-25473(Vol.2), pp 69-81)
interactions $K^+ + p \rightarrow p + K^+ + \pi^+ + \pi^-$ interactions at 1.3 to 2.2 GeV/c in hydrogen bubble chamber, associated production of K^* and Δ^{++} in, (E), 24:51950 (CALT-68-274)
interactions $K^- + p \rightarrow p + K^- + \pi^+ + \pi^-$, dual diffractive model for Q and L production in, (E/T), 25:7662
interactions $K^+ + p \rightarrow p + K^+$ at 3.5 GeV/c in hydrogen bubble chamber, baryon exchange in backward, (E), 22:20142
interactions $K^- + p \rightarrow p + K^-$ at 8 and 16 GeV/c, upper limits for K^{*-} production in, (E), 24:18079
interactions $K^- + p \rightarrow p + K^-$ at high energies, estimations of double scattering contributions for Regge cuts and secondary trajectories in, 23:51961
interactions $K^+ + p \rightarrow p + K^+(K^0) + \pi^0(\pi^+)$ at 7.3 GeV/c in hydrogen bubble chamber, cross sections and Δ(1236), K^*(890), and K^*(1420) production in, (E), 25:14574
interactions $K^- + p \rightarrow p$ + kappa$^-$ at 2.88 GeV/c, cross section for K^- (<670 MeV) production in, (E), 23:5548
interactions $K^+ + p \rightarrow p + p$ + anti Λ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^+ + p \rightarrow p + p$ + anti Λ at 5 GeV/c in hydrogen bubble chambers, cross section for, 21:21232
interactions $K^+ + p \rightarrow p + p$ + anti Σ^0 at 5 GeV/c in hydrogen bubble chambers, cross section for, 21:21232
interactions $K^- + p \rightarrow p + \pi^-$ + anti K^0 at 3.9 to 5.0 GeV/c in hydrogen bubble chamber, Σ^{+*} production in, (E), 25:59284
interactions $K^- + p \rightarrow p + \pi^-$ + anti K^0 at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, quasi-two-body cross sections for, (E), 25:59284
interactions $K^+ + p \rightarrow p + \pi^+ + K^0 + \pi^0$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^+ + p \rightarrow p + \pi^+ + K^0$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^- + p \rightarrow p + Q^-$ at 10 GeV/c, t-channel helicity conservation in diffractive, (E), 25:19921
interactions $K^- + p \rightarrow p$ + rho + K, final-state interaction effect on K^*(1320) production in, (T), 23:49158
interactions $K^- + p \rightarrow \pi + \pi + \Lambda$, transition amplitude for, 21:2476
interactions $K^- + p \rightarrow \pi^0 + \Lambda$ at high energies, exchange-degenerate Regge-cut model for, 25:50143
interactions $K^- + p \rightarrow \pi^0 + \Lambda$ in nuclei, tests of unitary symmetry by, 21:33750
interactions $K^- + p \rightarrow \pi^0 + \Lambda$, Regge-pole analysis of, 22:46433
interactions $K^- + p \rightarrow \pi^0 + \Lambda^0$, Regge pole theory for, 21:29541
interactions $K^- + p \rightarrow \pi^0 + \Sigma^0$, Regge pole theory for, 21:29541
interactions $K^+ + p \rightarrow \pi^+ + K^0 + p$ at 785 MeV/c, unitarized model with $P_1/_2$ and $S_1/_2$ π + N interactions for, 24:3670
interactions $K^- + p \rightarrow \pi^- + K^+ + \Xi$, exotic exchange and kinematical reflection in, (T), 24:3663
interactions $K^- + p \rightarrow \pi^- + p$ + anti K^0 at 4.57 GeV/c, K^*(890) and K^*(1420) production in, (E), 23:14972
interactions $K^+ + p \rightarrow \pi^-$ + particles at 12 GeV/c, symmetric π^- production in, (E), 25:43557
interactions $K^+ + p \rightarrow \pi^+ + \pi^+ + K^0 + n$ at 13 GeV/c, cross sections for, (E), 23:10752
interactions $K^- + p \rightarrow \pi^- + \pi^+ + K^+ + p$ at 5.5 GeV/c, cross sections for, (E), 23:10753
interactions $K^- + p \rightarrow \pi^+ + \pi^- + \Lambda$ at 1.8 to 4.2 GeV/c in bubble chamber, single-meson exchange for forward peaks in differential cross sections for Σ^-(1385) production in, (E), 23:42573
interactions $K^- + p \rightarrow \pi^+ + \pi^- + \Lambda$ at 2.24 GeV/c in bubble chamber, Σ(1385) production from, (E), 22:3284
interactions $K^- + p \rightarrow \pi^- + \pi^+ + \Lambda$ at 3 to 10 GeV/c, generalized Veneziano model for, (E/T), 24:3674
interactions $K^- + p \rightarrow \pi^- + \pi^+ + \Lambda$ in generalized Veneziano model, 25:14716
interactions $K^- + p \rightarrow \pi^- + \pi^+ + \Lambda$, crossed interaction $\pi^+ + p \rightarrow K^+ + \pi^+ + \Lambda$ from generalized Veneziano model of, 24:52096
interactions $K^- + p \rightarrow \pi^+ + \pi^- + \Lambda$, exotic exchange and kinematical reflection in, (T), 24:3663

interactions $K^- + p \to \pi^+ + \pi^- + \Lambda$, production of I = 0, D-wave $\pi\pi$ resonance in, 21:9792
interactions $K^- + p \to \pi^- + \pi^+ + \Lambda$, Veneziano five-point function model for, 25:59488
interactions $K^- + p \to \pi^- + \Sigma(1385)$ at 5.5 GeV/c, comparison of $\pi^+ + p \to K^+ + \Sigma(1385)$ interaction rate with, (E), 24:3541
interactions $K^- + p \to \pi^+ + \Sigma(1385)$, rescattering model for, 23:42688
interactions $K^- + p \to \pi^- + \Sigma^+ (\Sigma^+(1385))$ at 8 and 16 GeV/c, missing-mass spectrometer study of differential cross sections for, (E), 24:26375
interactions $K^- + p \to \pi^- + \Sigma^+$ and $\pi^+ + p \to K^+ + \Sigma^+$, complex Regge poles for line reversed, 25:25428
interactions $K^- + p \to \pi^- + \Sigma^+$ and $\pi^+ + p \to K^+ + \Sigma^+$, test of ($K^*$,$K^{**}$) exchange degeneracy in, (E/T), 24:51966
interactions $K^- + p \to \pi^+ + \Sigma^-$ at 2 to 16 GeV/c, Regge cut model for near-forward differential cross sections for, 25:59483
interactions $K^- + p \to \pi^+ + \Sigma^-$ at 2.75 to 3.50 GeV/c, forward cross sections for, (E), 25:47750
interactions $K^- + p \to \pi^+ + \Sigma^-$ at 8 and 16 GeV/c, upper limits for Σ^{*-} production in, (E), 24:18079
interactions $K^- + p \to \pi^- + \Sigma^+$ at high energies, double Regge pole model and O(3,1) symmetry for, 23:27816
interactions $K^- + p \to \pi^- + \Sigma^+$ at high energies, exchange-degenerate Regge-cut model for, 25:50143
interactions $K^- + p \to \pi^- + \Sigma^-$ in Regge-pole model, laboratory momentum dependence of total cross section for, (T), 24:15583
interactions $K^- + p \to \pi^+ + \Sigma^-$, contribution of Regge branch points to amplitude of, 22:20263
interactions $K^- + p \to \pi^+ + \Sigma^-$, quark model and multiple-scattering formalism for, 22:52985
interactions $K^- + p \to \pi^- + \Sigma^+$, Regge cuts in exchange degenerate trajectories for, 24:3673
interactions $K^- + p \to \pi^- + \Sigma^+$, Regge pole model for, 22:15797
interactions $K^- + p \to \pi^- + \Sigma^+$, Regge pole theory for, 21:29541
interactions $K^- + p \to \pi^- + \Sigma^+$, Regge-pole analysis of, 22:46433
interactions $K^- + p \to \pi^- + \Sigma^+$, Reggeized U(6) X U(6) X O(3) absorptive peripheral model for, 25:1536
interactions $K^- + p \to \pi^+ + \Sigma^-$, relativistic extensions of SU(6) for, 23:16982
interactions $K^- + p \to \pi^- + \Sigma^+$, sum rules for, (T), 25:41007
interactions $K^- + p \to \pi^- + \Sigma^+(1385)$ and $\pi^+ + p \to K^+ + \Sigma^+(1385)$, test of ($K^*$,$K^{**}$) exchange degeneracy in, (E/T), 24:51966
interactions $K^- + p \to \pi^- + \Sigma^+(1385)$ in Regge-pole model, laboratory momentum dependence of total cross section for, 24:15583
interactions $K^- + p \to \pi^- + \Sigma^+(1385)$, Regge pole model for, (T), 24:49502
interactions $K^- + p \to \pi^- + \Sigma^+(\Sigma^+(1385))$ at 8 and 16 GeV/c, magnetic spectrometer study of differential cross sections for, (E), 25:22697
interactions $K^- + p \to \pi^- + Y^{*+}$, eikonal model with unitarity corrections for dual description of, (T), 25:36514
interactions $K^- + p \to \pi^- + Y^{*+}$, eikonal-like pole-cut model for, 25:28044
interactions $K^- + p \to \pi^- + Y^{*+}$, unitarity corrections to Veneziano model for factorization, exchange degeneracy, and duality in, (T), 25:1533 (UCSD-10-P-10-76)
interactions $K^- + p \to \pi^- + Y^{*+}(1385)$, comparison of Regge-pole model and absorption model for, 23:32739
interactions $K^- + p \to \pi^- + Y_1^*$, quark model for, 21:31602
interactions $K^- + p \to \pi^+ (\pi^-) + \Sigma^- (\Sigma^+)$, Σ lifetime and Σ^+ decay branching ratio from, (E), 24:5251
interactions $K^+ + p \to Q^+ + p \to K^+ + \pi^+ + \pi^- + p$ at 2.5 to 12.7 GeV/c, helicity conservation in, (E/T), 25:47753
interactions $K^+ + p \to Q^+ + p, Q^+ \to K^+ + \pi^+ + \pi^-$ at 12.7 GeV/c, effects of K—π misidentification on determination of decay properties of Q in, (T), 24:26437 (UR-875-304)
interactions $K^- + p \to Q^- + p, Q^- \to K^- + \pi^+ + \pi^-$ at 12.7 GeV/c, effects of K—π misidentification on determination of decay properties of Q in, (T), 24:26437 (UR-875-304)
interactions $K^- + p \to \mathrm{rho} + \pi + \Lambda$ at 6 GeV/c, double peripheral mechanism for, (E/T), 23:27755
interactions $K^- + p \to \Sigma + 3\pi$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, resonance production in, (E) , 23:23388
interactions $K^- + p \to \Sigma + \pi + 2K$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, resonance production in, (E), 23:23388
interactions $K^- + p \to \Sigma + \pi + K^+ + K^-$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber (E), 22:20137 (COO-1195-116)
interactions $K^- + p \to \Sigma + \pi + \pi$ at 0.6 to 1.2 GeV/c, total cross sections for, (E/T), 23:8750
interactions $K^- + p \to \Sigma + \pi + \pi^0$ interactions at 594 to 820 MeV/c, upper limit for $\Sigma(1660) \to \Lambda(1405) + \pi^0$ decay in, (E), 24:3548
interactions $K^- + p \to \Sigma + \pi + \pi^+ + \pi^- (+\pi^0)$ at 4.25 GeV/c in hydrogen bubble chamber, Y_0^* and rho, ω, and π^- production in, (E), 24:21943
interactions $K^- + p \to \Sigma + \pi + \pi^+ + \pi^-$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, production of two distinct $\Sigma(1670)$ resonances in, (E), 24:37653
interactions $K^- + p \to \Sigma + \pi + \pi^+ + \pi^-$ at 4.6 to 5.0 GeV in hydrogen bubble chamber, $\Sigma(1660)$ and $\Sigma(1695)$ production in, (E), 22:20139
interactions $K^- + p \to \Sigma + \pi + \pi^+ + \pi^-$ interactions at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:20137 (COO-1195-116)
interactions $K^- + p \to \Sigma + \pi$ at 0.6 to 1.2 GeV/c, partial wave analysis of, (E/T), 23:8751
interactions $K^- + p \to \Sigma + \pi$ at 270 to 470 MeV/c in hydrogen bubble chamber, (E), 23:49036 (UCRL-19246)
interactions $K^- + p \to \Sigma + \pi$ at 385 MeV/c in hydrogen bubble chamber, polarized hyperons (Σ^+) and (Σ^-) production in, (E), 23:51843 (UCRL-19244)
interactions $K^- + p \to \Sigma + \pi$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, differential cross sections for, (E), 22:20137 (COO-1195-116)
interactions $K^- + p \to \Sigma + \pi$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, differential cross sections for, (E), 23:23388
interactions $K^- + p \to \Sigma + \pi$ at 594 to 820 MeV/c, $\Lambda(1670)$ and $\Lambda(1690)$ in D_{03} and S_{01} waves in, (E), 24:3548
interactions $K^- + p \to \Sigma + \pi$, diquark amplitude from backward, (T), 22:13753 (LPTHE-TH-226)
interactions $K^- + p \to \Sigma + \pi$, relative signs of resonant amplitudes for, (E), 23:5544
interactions $K^- + p \to \Sigma + \pi$, review of $\Sigma(1660)$ mass and width from partial-wave analysis of, (E), 25:25307
interactions $K^- + p \to \Sigma + \pi, \Sigma \to \Lambda + e + \nu, \Lambda^0 \to p + \pi^-$ at rest in hydrogen bubble chamber, branching ratios for, (E), 24:35614
interactions $K^- + p \to \Sigma + \pi^+ + \pi^-$ at 828 to 1112 MeV/c in deuterium bubble chamber, $Y_1^*(1765)$ production from, (E), 21:18909 (UCRL-16451(Rev.))
interactions $K^- + p \to \Sigma(1385) + \pi$ near $\Lambda(1520)$, production mechanism for, (T), 25:36415
interactions $K^- + p \to \Sigma(1385) + \pi$, rescattering model for $\Sigma(1385)$ production angular distributions from, 22:50404
interactions $K^- + p \to \Sigma(1385) + \pi^+$, rescattering model for, 24:24369
interactions $K^- + p \to \Sigma(1600), \Sigma(1660)$ decay branching ratios from, (E), 23:14986
interactions $K^- + p \to \Sigma(1660) + \pi^0$ at 3.5 GeV/c, one-baryon exchange model for, 23:21115
interactions $K^- + p \to \Sigma(1660) + \pi^0$, rescattering model for production angular distribution from, 22:50404
interactions $K^- + p \to \Sigma(1660) + \pi^- \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^+ + \pi^-$ at 2.1 to 2.7 GeV/c, parity and spin of $\Sigma(1660)$ from, 22:5512
interactions $K^- + p \to \Sigma(1760) \to \Lambda(1520) + \pi^0$ at 800 to 1200 MeV/c, $\Lambda(1520)$ resonance parameters from, (E), 24:5256
interactions $K^- + p \to \Sigma(\Lambda) + \pi(\mathrm{eta})$, phenomenological meson—baryon coupling model based on quark model with broken SU(6) x O(3) for Y^* production in, 24:3725
interactions $K^- + p \to \Sigma^0 + \pi^0 + \gamma$ at 600 MeV, Σ^0 magnetic moment from, (E), 23:49033
interactions $K^- + p \to \Sigma^0 + \pi^0$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \to \Sigma^0 + \pi^0$ at 350 to 430 MeV/c, partial-wave amplitudes, cross sections, and polarizations for, (E/T), 24:37658
interactions $K^- + p \to \Sigma^0 + \pi^0$ at 430 to 800 MeV/c, partial-wave analysis of, 24:5255
interactions $K^- + p \to \Sigma^0 + \pi^0$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \to \Sigma^0 + \pi^0$, search for $\Lambda(1670)$ in, (E), 25:14568
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi$, kinematics of momentum transfers in, (T), 22:48316
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi^-$ at 1.7 GeV/c, production and decay of $\Sigma(1660)$ from, (E), 22:52941
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi^-$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, two distinct $\Sigma(1670)$ resonances in, (E), 24:37653
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi^-$ at 3.9 to 5.0 GeV/C, production of $\Sigma(1385)$, $\Sigma(1660)$, $\Sigma(1940)$, and $\Sigma(2280)$ in, (E), 23:16935
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi^-$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, $\Sigma^+(1660)$ production in, (E), 23:42570
interactions $K^- + p \to \Sigma^0 + \pi^+ + \pi^-$ at 6 GeV/c, angular correlations in, (T), 22:3420
interactions $K^- + p \to \Sigma^0(\Lambda) + \pi^+ + \pi^-$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, mass spectra for $\Sigma^+(1670)$ production in, (E), 25:25326
interactions $K^- + p \to \Sigma^+ + 2\pi^- + \pi^+ + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, strangeness-zero meson production from, (E), 22:7447
interactions $K^- + p \to \Sigma^- + 2\pi^+ + \pi^- + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, strangeness-zero meson production from, (E), 22:7447
interactions $K^- + p \to \Sigma^- + \pi, \Sigma^- \to \pi^- + n$, Σ^- lifetime from, (E), 22:22326
interactions $K^- + p \to \Sigma^+ + \pi^0 + \pi^-$ at 4.6 to 5.0 GeV in hydrogen bubble chamber, $\Sigma(1660)$ and $\Sigma(1695)$ production in, (E), 22:20139
interactions $K^- + p \to \Sigma^+ + \pi^- + \pi^0$ at 2.1 to 2.70 GeV/c in hydrogen bubble chamber, (E), 22:32062 (UCID-3164)
interactions $K^- + p \to \Sigma^+ + \pi^- + \pi^0$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, $\Sigma^*(1660)$ production in, (E), 23:42570
interactions $K^- + p \to \Sigma^+ + \pi^- + \pi^0$ at 5.5 GeV/c, cross sections and properties of $\Sigma^+\mathrm{rho}^-(770)$ channel from, (E), 23:18817
interactions $K^- + p \to \Sigma^- + \pi^+ + \pi^0$ at 5.5 GeV/c, cross sections and production properties for Y_0^*, rho^0, and ω^0 in, (E), 23:18817
interactions $K^- + p \to \Sigma^+ + \pi^- + \pi^0$ with $\Sigma^+ \to p + \pi^0$, computer program for kinematic analysis of, 21:35267 (UCRL-17473)
interactions $K^- + p \to \Sigma^+ + \pi^- + \pi^0$ with $\Sigma^+ \to \pi^+ + n$, computer program for kinematic analysis of, 21:35267 (UCRL-17473)
interactions $K^- + p \to \Sigma^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 2.1 to 2.70 GeV/c in hydrogen bubble chamber, (E), 22:32062 (UCID-3164)
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \to \Sigma^- + \pi^+$ at 0 to 550 MeV/c, multichannel phase shift analysis for, 22:1445
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 1.15 GeV/c, emulsion study of Σ^+ magnetic moment from, 21:31522
interactions $K^- + p \to \Sigma^- + \pi^+$ at 1.26 to 1.84 GeV/c, cross sections and polarizations for, (E), 25:7557
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 1.26 to 1.84 GeV/c, cross sections and polarizations for, (E), 25:7557
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 1150 MeV/c, Σ^+ magnetic moment from, (E), 21:15254
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 270 to 470 MeV/c in hydrogen bubble chamber, (E), 24:18088
interactions $K^- + p \to \Sigma^- + \pi^+$ at 300 to 450 MeV/c in hydrogen bubble chamber, $\Sigma^- \to n + l^- + \mathrm{anti}\ \nu$ asymmetry parameter from, (E), 22:32056
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 340 to 430 MeV/c in hydrogen bubble chamber, (E), 21:46467 (UCRL-17746)
interactions $K^- + p \to \Sigma^- + \pi^+$ at 400 MeV/c in bubble chamber, (E), 21:44255 (UCRL-17740)
interactions $K^- + p \to \Sigma^- + \pi^+$ at 405 to 440 MeV/c, Σ^- decay asymmetry parameters from, (E), 24:40243
interactions $K^- + p \to \Sigma^- + \pi^+$ at 410 MeV/c in hydrogen bubble chamber, (E), 21:46474
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 430 to 800 MeV/c, partial-wave analysis of, (E), 24:5255
interactions $K^- + p \to \Sigma^- + \pi^-$ at 430 to 800 MeV/c, partial-wave analysis of, 24:5255
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 780 to 1220 MeV/c, p-wave analysis for resonance production from, 21:17056
interactions $K^- + p \to \Sigma^- + \pi^+$ at 780 to 1220 MeV/c, p-wave analysis for resonance production from, 21:17056
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 850 to 1150 MeV/c in hydrogen bubble chamber, (E), 22:13645
interactions $K^- + p \to \Sigma^+ + \pi^-$ at 900 to 1100 MeV/c, P_1 final state in $\Sigma^+ \to n + \pi^+$ decay from, (E), 21:2465
interactions $K^- + p \to \Sigma^- + \pi^+$ at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $K^- + p \to \Sigma^+ + \pi^-$ at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $K^- + p \to \Sigma^- + \pi^+$ in freon, Σ^- reabsorption rate from, 25:5298
interactions $K^- + p \to \Sigma^+ + \pi^-$ in hydrogen bubble chamber, Σ^+ production from, 21:33592
interactions $K^- + p \to \Sigma^- + \pi^+$ in hydrogen bubble chamber, Σ^- production from, 21:33592
interactions $K^- + p \to \Sigma^+ + \pi^-$ in hydrogen bubble chamber, $\Sigma^+ - \pi^-$ elastic scattering cross sections from, (E), 21:37673
interactions $K^- + p \to \Sigma^- + \pi^+$ in hydrogen bubble chamber, $\Sigma^- - \pi^+$ elastic scattering cross sections from, (E), 21:37673
interactions $K^- + p \to \Sigma^+ + \pi^-$ with $\Sigma^+ \to p + \pi^0$, computer program for kinematic analysis of, 21:35267 (UCRL-17473)
interactions $K^- + p \to \Sigma^+ + \pi^-$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \to \Sigma^- + \pi^+$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \to \Sigma^+ + \pi^-$, double Regge pole exchange in backward, (T), 23:30761
interactions $K^- + p \to \Sigma^- + \pi^+$, rescattering model for angular distributions in, 23:18911
interactions $K^- + p \to \Sigma^+ + \pi^-$, two-meson-exchange contribution to, 23:1645
interactions $K^- + p \to \Sigma^+ (\Lambda) + \pi^- (\pi^0)$ at 449 to 671 MeV/c in hydrogen bubble chamber, cross sections, angular distributions, and Λ and Σ^+ polarizations for, (E), 24:32970
interactions $K^- + p \to \Sigma^- (\Sigma^0) + \pi^+ (\pi^0)$ at 449 to 671 MeV/c in hydrogen bubble chamber, cross sections and angular distributions for, (E), 24:32970
interactions $K^- + p \to \Sigma^+ (\Sigma^-) + \pi^0 + \pi^- (\pi^+)$ at 1.38 GeV/c in hydrogen bubble chamber, $\Lambda(1405)$ and $\Lambda(1520)$ production in, (E), 23:32622
interactions $K^- + p \to \Sigma^+(1385) + \pi^- + \mathrm{eta}$ at 3.9, 4.6, and 5.0 GeV/c, $\mathrm{delta}^-(970)$ production in, (E), 23:44605
interactions $K^- + p \to \Sigma^+(1385) + \pi^-$ at 4.1 to 5.5 GeV/c, meson-exchange mechanism for, (E), 22:24560
interactions $K^- + p \to \Sigma^+(1385) + \pi^-(980)$ at 5.5 GeV/c, cross sections for, (E), 24:45439
interactions $K^- + p \to \Sigma^+(1660) + \pi^-$ at 3.9 tp 5.0 GeV/c in hydrogen bubble chamber, resonance production in, (E), 23:44599 (BNL-13823)
interactions $K^- + p \to \Sigma^+(1680) + \pi^-$ at 4.1 to 5.5 GeV/c, meson-exchange mechanism for $\Sigma^+(1680)$ production in, (E), 22:24560
interactions $K^- + p \to \Sigma^+(\Sigma^-) + 5\pi(+ \pi^0)$ at 3.9 GeV/c in hydrogen bubble chamber, Goldhaber effect in cross sections and production mechanisms for, (E), 25:40880 (NP-18879)
interactions $K^- + p \to \Sigma^+(\Sigma^-) + K + \mathrm{anti}\ K + m\pi$ at 10 GeV/c, multiperipheral Regge exchange model for momentum distributions in, (E/T), 23:36837
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^+ + \pi^- + \pi^-(\pi^+)$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, $\Sigma^+(1660)$ production in, 23:42570
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + K^+ + K^-$ at 5.5 GeV/c, cross sections and production properties of Y_0^* in, (E), 23:18817
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^0$ at 0.85 to 1.15 GeV/c, angular distributions, polarization, Legendre coefficients, and cross sections for, (E), 25:47743 (UCRL-20676)
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^0$ at 902 to 990 MeV/c, total cross sections for, (E), 22:24558
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^+ + \pi^- + \pi^0$ at 5.5 GeV/c, properties for Y_0^*, rho^0, and ω^0 in, (E), 23:18817
interactions $K^- + p \to \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^+ + \pi^- + \pi^0$ at 5.5 GeV/c, search for delta(960) in, (E), 23:18817

interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^+ + \pi^-$ at 3.9 and 4.6 GeV/c in hydrogen bubble chamber, mass spectra for $\Sigma^+(1670)$ production in, (E), 25:25326
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+) + \pi^+ + \pi^-$ at 5.5 GeV/c, cross sections and production properties for Y_0^*, rho^0, and ω^0 in, (E), 23:18817
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ $(+\pi^0)$ at 1.1 and 1.7 GeV/c in hydrogen bubble chamber, Dalitz and invariant mass-squared plots, angular distributions, polarizations, Legendre coefficients, cross sections, and Y^* production in, (E), 25:40884 (UCRL-20682)
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 0.85 to 1.15 GeV/c, angular distributions, polarization, Legendre coefficients, cross sections, and resonance parameters from partial wave analysis for, (E), 25:47743 (UCRL-20676)
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 1730 to 2150 MeV in bubble chamber, cross sections, angular distributions, and polarizations for, (E), 25:7554 (UCRL-19790)
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 1735 to 1845 MeV in hydrogen bubble chamber, partial-wave analysis of $\Sigma\pi$ final states in, (E/T), 21:44278
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 385 MeV/c in hydrogen bubble chamber, production of polarized Σ^+ and Σ^- in, (E), 25:5260
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 385 MeV/c, production of polarized Σ^+ and Σ^- in, (E), 24:12931
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 4.07 and 5.47 GeV/c, differential cross sections for, (E), 22:50306
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 440 to 1230 MeV/c in hydrogen bubble chamber, Λ and Σ resonance production, Σ^+ decay branching ratio, and Σ^+ and Σ^- lifetimes in, (E), 25:12098 (CEA-R-4068)
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ at 902 to 990 MeV/c, differential cross sections for, (E), 22:24558
interactions $K^- + p \rightarrow \Sigma^+(\Sigma^-) + \pi^-(\pi^+)$ near $\Lambda(1520)$, (E), 23:42543
interactions $K^- + p \rightarrow \Sigma^{+-} + \pi^{-+} + \pi^0$ at 902 to 990 MeV/c in hydrogen bubble chamber, total cross sections for, 21:21140 (TID-23785)
interactions $K^- + p \rightarrow \Sigma^{+-} + \pi^{-+}$ at 902 to 990 MeV/c in hydrogen bubble chamber, differential cross sections for, 21:21140 (TID-23785)
interactions $K^- + p \rightarrow X^0 + \Lambda$ determination of spin and parity of $X^0(960)$ from, 25:14720
interactions $K^- + p \rightarrow X^0(960) + \Lambda$ on polarized targets, parity and spin of $X^0(960)$ from, (T), 25:5361 (TPJU-14/70)
interactions $K^- + p \rightarrow X^+ + \pi^-$ at 2.1 to 2.70 GeV/c in hydrogen bubble chamber, production of two distinct $\Sigma(1660)$ resonances in, (E), 24:40269 (UCRL-19824)
interactions $K^- + p \rightarrow \Xi + K + m\pi$ at 4.25 GeV/c, resonance production in, (E), 22:39290
interactions $K^- + p \rightarrow \Xi + K + n\pi$ at 1.7 to 2.7 GeV/c in hydrogen bubble chamber, (E), 22:15669
interactions $K^- + p \rightarrow \Xi + K + \pi + \pi$ at 1.7 to 2.7 GeV/c, production of $K^*(890)$, $\Xi^*(1530)$, and $\Xi^*(1815)$ in, (E), 23:25530
interactions $K^- + p \rightarrow \Xi + K$ at 1.2 to 2.7 GeV/c in bubble chamber, total cross sections, polarization, and partial-wave analysis for baryon exchange and direct-channel Y^* production in, (E), 24:10678 (UCRL-19372)
interactions $K^- + p \rightarrow \Xi + K^+$ at 6 GeV/c in bubble chamber, cross sections for, (E), 22:15684
interactions $K^- + p \rightarrow \Xi^{*0} + K^0$ at 2 GeV/c, cross section and Ξ^{*0} angular distribution in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^{*0} + K^0$ at 2.24 and 3.0 GeV/c, rescattering square diagram calculation of production angular distribution of Ξ^{*0} in, 24:1521
interactions $K^- + p \rightarrow \Xi^{*0} + K^0$, baryon-exchange model for, 21:18994
interactions $K^- + p \rightarrow \Xi^{*-} + K^+$ at 2 GeV/c, cross section and Ξ^{*-} angular distribution in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^{*-} + K^+$, baryon-exchange model for, 21:18994
interactions $K^- + p \rightarrow \Xi^0 + K^0$ at 1.7 to 2.7 GeV/c, cross sections and Ξ^0 polarization from, (E), 23:25530
interactions $K^- + p \rightarrow \Xi^0 + K^0$, baryon exchange in, 21:37832
interactions $K^- + p \rightarrow \Xi^0 + K^0$, baryon exchange model for, 21:18988 (AD-642374)
interactions $K^- + p \rightarrow \Xi^0 + K^0$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \rightarrow \Xi^0 + K^0$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \rightarrow \Xi^0 + K^+ + \pi^0$ at 1.7 to 2.7 GeV/c, $K^*(890)$, $\Xi^*(1530)$, and $\Xi^*(1930)$ production in, (E), 23:25530
interactions $K^- + p \rightarrow \Xi^0 + K^+ + \pi^-$ at 2.9 GeV/c in bubble chamber, cross sections and production of $\Xi(1530)$, phi, $\Xi(1860)$, and K anti K(1032) enhancement in, (E), 25:25310 (ORO-2504-170)
interactions $K^- + p \rightarrow \Xi^0(1530) + K^0$ at 1.7 to 2.87 GeV/c, Regge pole analysis with Σ exchanges for angular distributions and differential cross sections for, (T), 25:25436
interactions $K^- + p \rightarrow \Xi^- + K + m\pi$ at 10 GeV/c, multiperipheral Regge exchange model for momentum distribution in, (E/T), 23:36837
interactions $K^- + p \rightarrow \Xi^- + K^{*+}$ at 2 GeV/c, cross section and angular distribution in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^- + K^0 + \pi^+$ at 2 GeV/c, cross section and baryon exchange in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^- + K^+ + \pi^0$ at 1.7 to 2.7 GeV/c, $K^*(890)$ $\Xi^*(1530)$, and $\Xi^*(1930)$ production in, (E), 23:25530
interactions $K^- + p \rightarrow \Xi^- + K^+ + \pi^0$ at 2 GeV/c, cross sections and baryon exchange in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^- + K^+ (K^0) + \pi^- (\pi^0) + \pi^+$ at 1.7 to 2.7 GeV/c, analysis of Ξ^- and $\Xi(1815)$ decay from, (E), 22:22320
interactions $K^- + p \rightarrow \Xi^- + K^+$ at 1.7 to 2.7 GeV/c, analysis of Ξ^- and $\Xi(1815)$ decay from, (E), 22:22320
interactions $K^- + p \rightarrow \Xi^- + K^+$ at 1.7 to 2.7 GeV/c, cross sections and Ξ^- polarization from, (E), 23:25530
interactions $K^- + p \rightarrow \Xi^- + K^+$ at 1.8 GeV/c, Ξ^- decay parameters and magnetic moment from, (E), 24:40281
interactions $K^- + p \rightarrow \Xi^- + K^+$ at 1.8 GeV/c, Ξ^- magnetic moment from, (E), 24:20083
interactions $K^- + p \rightarrow \Xi^- + K^+$ at 2 GeV/c, cross section, Ξ^- polarization, and baryon exchange in, (E), 23:13037
interactions $K^- + p \rightarrow \Xi^- + K^-$ at 2 GeV/c, partial-wave analysis of, (E/T), 21:37828
interactions $K^- + p \rightarrow \Xi^- + K^+$, baryon exchange in, 21:37832
interactions $K^- + p \rightarrow \Xi^- + K^+$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $K^- + p \rightarrow \Xi^- + K^+$, peripheral model for associated production of Ξ^- in, 22:11685
interactions $K^- + p \rightarrow \Xi^- + K^+$, peripheral model for, 21:15352
interactions $K^- + p \rightarrow \Xi^- + \pi^+(\pi^0) + K^0(K^+)$ at 2.87 GeV/c in bubble chamber, production of $\Xi(1530)$, $\Xi(1630)$, $\Xi(1800)$, and $\Xi(1960)$ in, (E), 23:51862
interactions $K^- + p \rightarrow \Xi^- + \pi^+(\pi^0) + K^0(K^+)$ at 2.87 GeV/c in bubble chamber, $\Xi\pi(1630)$ and broad high-mass enhancement in, (E), 23:51867(R) (NYO-1984-13)
interactions $K^- + p \rightarrow \Xi^-(\Xi^0) + K^+(K^0)$ at 1.2 to 2.7 GeV/c in bubble chamber, total cross sections, polarization, and partial-wave analysis for baryon exchange in, (E/T), 25:5384
interactions $K^- + p \rightarrow Y$ + neutral vector meson, quark model for, 23:18877 (ITF-68-36)
interactions $K^- + p \rightarrow Y^*(1327) \rightarrow \Lambda + \gamma$ at 2.1 GeV/c in heavy-liquid bubble chamber, search for, (E), 25:7529
interactions $K^- + p \rightarrow Y^{*-}(Y^{*+}) + \pi^+(\pi^-)$ at high energies, proposed experiment for properties of Y^* in, 24:51960 (TID-25473(Vol.4), pp 299-302)
interactions $K^- + p \rightarrow Y^0 + \pi^0$ at 740 MeV/c in hydrogen bubble chamber, search for $\Lambda(1327)$ in, (E), 24:40268 (ORO-3065-22)
interactions $K^- + p \rightarrow Y_0^*(1520) + \pi^+ + \pi^+$ at 2.0 GeV/c in hydrogen bubble chamber, Y_0^* mass, width, and decay fractions from, 21:27315
interactions $K^- + p \rightarrow Y_0^*(1520) \rightarrow \Sigma^+ + \pi^-$, interference effects in, 23:15125
interactions $K^- + p \rightarrow Y_1^*(1385)$ + phi at 2.1 to 2.7 GeV/c in hydrogen bubble chamber, cross sections for, 21:33619
interactions $K^- + p \rightarrow Y_1^*(1385) + \pi$ at 0.78 to 1.22 GeV/c, cross sections for, (E), 21:31531
interactions $K^- + p \rightarrow Y_1^*(1765) \rightarrow Y_0^*(1520) + \pi$ at 900 to 1100 MeV/c, branching ratios for Y_0^* decay from, (E/T), 21:27377
interactions $K^- + p \rightarrow Y_1^{*-} + \pi^+$, baryon-exchange model for, 21:18994
interactions $K^- + p \rightarrow Y_1^{*-} + \pi^-$, baryon-exchange model for, 21:18994
interactions $K^- + p \rightarrow Y_1^{*+}(1385) + \pi^-$ + eta at 5.5 GeV/c, angular distribution of π^-eta(980) enhancement in, (E), 23:8741
interactions $K^- + p \rightarrow Y_1^{*+}(1660) + \pi^-$ at 2.6 GeV/c, evidence for existence of two $Y_1^*(1660)$ from, (E), 23:13034
interactions $K^+ + p \rightarrow Z^+ + \pi^+$ at 778 MeV/c in hydrogen bubble chamber, search for positive-strangeness baryon Z^+ in, 21:21142
interactions $K^+ + p$ above 0.7 GeV/c, Regge-pole model of, (E/T), 24:52100
interactions $K^- + p$ above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009
interactions $K^+ + p$ above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009
interactions $K^+ + p$ above 20 GeV, finite-energy sum rule for test of models for asymptotic behavior of amplitudes for, (T), 24:52112 (JINR-E2-5227)
interactions $K^- + p$ above 20 GeV, finite-energy sum rule for test of models for asymptotic behavior of amplitudes for, (T), 24:52112 (JINR-E2-5227)
interactions $K^- + p$ above 3 GeV/c with charge exchange and no strangeness exchange, quark model predictions for pseudoscalar and vector meson production in, (E), 23:34532 (INR-1040)
interactions $K^+ + p$ and $K^- + p$ at high energies, upper bounds on cross section differences for, 24:33018
interactions $K^- + p$ and $K^+ + p$ at high energies, upper bounds on cross section differences for, 24:33018
interactions $K^- + p$ and $K^+ + p$, invalidity of Pomeranchuk theorem for, (E/T), 24:45436
interactions $K^+ + p$ and $K^- + p$, invalidity of Pomeranchuk theorem for, (E/T), 24:45436
interactions $K^- + p$ at 0 to 250 MeV/c, cross sections for low-energy, (E), 24:3539
interactions $K^+ + p$ at 0.140 to 14.800 GeV/c, data compilation on real parts of forward amplitudes of, (E), 25:3379 (JINR-E1-5259)
interactions $K^- + p$ at 0.293 to 15.910 GeV/c, data compilation on real parts of forward amplitudes of, (E), 25:3379 (JINR-E1-5259)
interactions $K^+ + p$ at 0.3 to 20 GeV/c, momentum dependence of diffraction slopes in elastic, (T), 23:25642
interactions $K^- + p$ at 0.3 to 20 GeV/c, momentum dependence of diffraction slopes in elastic, (T), 23:25642
interactions $K^+ + p$ at 0.36 to 0.72 GeV/c, total cross sections for, (E), 25:9673
interactions $K^- + p$ at 0.36 to 0.72 GeV/c, total cross sections for, (E), 25:9673
interactions $K^+ + p$ at 0.41 to 0.72 GeV/c, differential cross sections for elastic, (E), 24:40275
interactions $K^- + p$ at 0.41 to 0.72 GeV/c, differential cross sections for elastic, (E), 24:40275
interactions $K^- + p$ at 0.6 to 1.4 GeV/c, total cross sections for, (E), 21:9720
interactions $K^- + p$ at 0.6 to 1.4 GeV/c, $Y_0^*(1698)$ and $Y_1^*(1905)$ production in, (E), 21:9720
interactions $K^- + p$ at 0.6 to 2.65 GeV/c, total cross sections for, (E), 22:13654 (RPP/H-31)
interactions $K^+ + p$ at 0.6 to 2.65 GeV/c, total cross section for, (E), 22:26567
interactions $K^+ + p$ at 0.6 to 2.65 GeV/c, total cross sections for, (E), 22:13654 (RPP/H-31)
interactions $K^- + p$ at 0.6 to 4 GeV/c, interference model for total cross sections of, 24:13091
interactions $K^- + p$ at 0.74 to 15.9 GeV/c, model of Pomeranchuk exchange plus direct channel resonances for analysis of, (T), 23:23476
interactions $K^- + p$ at 0.777 to 1.182 GeV/c, Y_1^* (1760) and Y_0^* (1820) production from, (E), 21:3996
interactions $K^- + p$ at 0.79 to 1.22 BeV/c, Y_1^* (1760) production in, (E), 21:885
interactions $K^- + p$ at 0.8 to 2.6 GeV/c, diffractive-resonance interference model for elastic and charge-exchange, (E/T), 25:33751
interactions $K^+ + p$ at 0.86 to 1.45 GeV/c, phase shift analysis of polarization and cross-section data for elastic, (E/T), 23:49054
interactions $K^+ + p$ at 0.86 to 1.95 GeV/c, evidence for existence of Z^* from phase-shift analysis of, (E/T), 24:20159
interactions $K^+ + p$ at 0.87 and 2.74 GeV/c, differential cross sections, polarization, and phase shift analysis of elastic, (E/T), 25:40895
interactions $K^+ + p$ at 0.9 to 1.5 GeV/c in bubble chamber, total, total elastic and inelastic, and partial inelastic cross sections and elastic angular distributions for, (E), 25:25332
interactions $K^+ + p$ at 0.9 to 1.5 GeV/c, phase shift analysis and cross sections for, (E), 25:1415
interactions $K^+ + p$ at 0.9 to 2.4 GeV/c, new resonance structures in total cross sections for, (E), 24:37655
interactions $K^- + p$ at 0.9 to 2.4 GeV/c, new resonance structures in total cross sections for, (E), 24:37655
interactions $K^+ + p$ at 1 GeV/c, K-matrix formalism for, 22:48373
interactions $K^- + p$ at 1 to 2 GeV/c, effects of Y^* resonance states on backward elastic and charge-exchange, 21:25298
interactions $K^+ + p$ at 1 to 2.5 GeV/c, spark chamber study of angular distribution of backward elastic, (E), 23:3642 (UR-875-254)
interactions $K^- + p$ at 1 to 2.5 GeV/c, spark chamber study of angular distribution of backward elastic, (E), 23:3642 (UR-875-254)
interactions $K^+ + p$ at 1 to 20 GeV/c, optical models for cross sections for elastic, (E/T), 21:21230
interactions $K^- + p$ at 1 to 20 GeV/c, optical models for cross sections for elastic, (E/T), 21:21230
interactions $K^+ + p$ at 1 to 3.5 GeV/c, review of Z^* production in, (E), 25:25306
interactions $K^+ + p$ at 1 to 3.5 GeV/c, spin and parity of $Z_1(1910)$ from, (T), 22:5591
interactions $K^+ + p$ at 1 to 7 GeV/c, angular distributions and cross sections for backward elastic, (E), 24:24248
interactions $K^- + p$ at 1 to 7 GeV/c, angular distributions and cross sections for backward elastic, (E), 24:24248
interactions $K^- + p$ at 1.0 to 2.45 GeV/c, K^-N resonance production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $K^+ + p$ at 1.0 to 2.5 GeV/c, spark chamber study of angular distribution and differential cross section of backward elastic, (E), 22:52947
interactions $K^- + p$ at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634
interactions $K^+ + p$ at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634
interactions $K^- + p$ at 1.05 to 1.7 GeV/c in hydrogen bubble chamber, Ξ^- and Ξ^0 production from, (E), 21:18908 (UCRL-11529)
interactions $K^- + p$ at 1.08 to 1.37 GeV/c using polarized target, asymmetry measurements for elastic, (E), 24:3531
interactions $K^+ + p$ at 1.20 to 14.88 GeV/c, model of Pomeranchuk exchange plus direct channel resonances for analysis of elastic, (T), 23:23476
interactions $K^+ + p$ at 1.22 and 2.48 GeV/c, polarization angular distributions in elastic, (E), 23:21060
interactions $K^+ + p$ at 1.30 to 6.9 GeV/c, Veneziano model for backward, (E/T), 24:1592
interactions $K^- + p$ at 1.328 GeV/c, cross sections and angular distributions of two-body final states from, (E), 21:46490
interactions $K^- + p$ at 1.33 GeV/c, cross sections and angular distributions of two-body final states from, (E), 22:37083
interactions $K^+ + p$ at 1.37 to 1.89 GeV/c, phase shift analysis and polarization in elastic, (E), 23:36843
interactions $K^- + p$ at 1.4 to 2.4 GeV/c, polarization angular distributions and cross sections for elastic, (E), 22:41748
interactions $K^- + p$ at 1.4 to 2.4 GeV/c, spin—parity assignments of $\Lambda(2100)$, $\Sigma(2035)$, and $\Lambda(2350)$ from, (E/T), 22:48233
interactions $K^+ + p$ at 1.4 to 5.0 GeV/c, cross sections for inelastic, (E), 22:17873
interactions $K^- + p$ at 1.51 and 1.7 GeV/c, direct resonance and rho-exchange amplitudes for charge-exchange, (T), 21:17133
interactions $K^+ + p$ at 1.55 to 3.3 GeV/c, evidence for strangeness-1 baryon resonances in total cross sections for, (E), 24:37657
interactions $K^+ + p$ at 1.55 to 3.30 GeV/c, differential Cherenkov counter study of structure in total cross sections for, 21:35268

interactions $K^+ + p$ at 1.585 GeV/c in hydrogen bubble chamber, single and double π production cross sections and Δ and K^* production and interference in, (E), 25:33555 (UCRL-20628)
interactions $K^+ + p$ at 1.60 to 3.31 GeV/c, polarization parameter or elastic, (E), 25:27963
interactions $K^- + p$ at 1.7 to 2.7 GeV/c in hydrogen bubble chamber, Ξ and Ξ^* production from, 21:29431 (UCRL-16455)
interactions $K^- + p$ at 1.7 to 2.75 GeV/c in hydrogen bubble chamber, analysis of $\Xi^- \rightarrow \Lambda^0 + e^- +$ anti τ decay from, (E), 22:20122
interactions $K^- + p$ at 1.8 GeV/c, angular distributions for charge-exchange, (E), 24:18093
interactions $K^- + p$ at 1.8 GeV/c, Ξ^- decay parameters and polarization from, (E), 24:20081
interactions $K^- + p$ at 10 and 14 GeV/c, polarization parameter in forward elastic, (E), 25:56438
interactions $K^+ + p$ at 10 and 14 GeV/c, polarization parameter in forward elastic, (E), 25:56438
interactions $K^+ + p$ at 10 GeV, generalized Veneziano model and Reggeized multiperipheral model for anti Λ production in, (E/T), 25:27966
interactions $K^- + p$ at 10 GeV/c in bubble chamber, Λ production in, (E), 22:32073
interactions $K^- + p$ at 10 GeV/c in hydrogen bubble chamber, cross sections for elastic, 21:21141
interactions $K^- + p$ at 10 GeV/c in hydrogen bubble chamber, Ω^- production and decay in, (E), 23:30719
interactions $K^+ + p$ at 10 GeV/c in hydrogen bubble chamber, production of L(1750) in four-, five- and six-body final states in, (E), 25:17399
interactions $K^+ + p$ at 10 GeV/c in hydrogen bubble chamber, review of K^* and N^* production in, (E), 25:56435
interactions $K^- + p$ at 10 GeV/c, cross sections for $K^*(890)$ and $K^*(1420)$ production in, (E/T), 22:29630
interactions $K^- + p$ at 10 GeV/c, in multiperipheral model, comparison of $\pi^+ + p$ and $\pi^- + p$ interactions with, 24:52103
interactions $K^- + p$ at 10 GeV/c, $K^*(1320)$ and L(1785) production in, (E), 23:8745
interactions $K^- + p$ at 10 GeV/c, mass dependence of differential cross section for, (E), 22:44338
interactions $K^- + p$ at 10 GeV/c, production and decay of $\Xi(2500)$ in, (E), 23:13033
interactions $K^- + p$ at 10 GeV/c, production of (anti pp) , (K^+K^-), and $(\pi^+\pi^-)$ pairs in, (E), 25:5297
interactions $K^- + p$ at 10 GeV/c, production of Ξ^-, Ω^-, and antibaryons in, (E), 22:24556
interactions $K^- + p$ at 10 GeV/c, total and differential cross sections for elastic and inelastic, (E), 22:50299
interactions $K^- + p$ at 10.1 GeV/c, differential cross sections for elastic, (E), 25:40890
interactions $K^+ + p$ at 11 to 15 GeV/c, complex Gaussian potential for analysis of elastic, 23:10819
interactions $K^- + p$ at 11 to 15 GeV/c, complex Gaussian potential for analysis of elastic, 23:10819
interactions $K^+ + p$ at 11.8 GeV/c, scaling behavior and factorization from π^- momentum distribution from inclusive, (E), 25:33565
interactions $K^+ + p$ at 12.7 GeV/c in bubble chamber, factorization in inclusive processes from single-particle momentum distributions of π produced in, (E), 25:43554 (UR-875-340)
interactions $K^+ + p$ at 12.7 GeV/c in hydrogen bubble chamber, hyperon and antihyperon production properties in, (E), 25:19914
interactions $K^+ + p$ at 12.7 GeV/c in hydrogen bubble chamber, K^0, Λ, and anti Λ production cross sections for, (T), 25:19914
interactions $K^+ + p$ at 12.7 GeV/c in hydrogen bubble chamber, upper limits for meson resonance production in, (E), 25:19914
interactions $K^+ + p$ at 12.7 GeV/c, cross sections for elastic, (E), 24:51981
interactions $K^+ + p$ at 12.7 GeV/c, cross sections for Ξ^- and anti Ξ^+ in, (E), 24:45435
interactions $K^+ + p$ at 12.7 GeV/c, longitudinal momentum distributions of π^- from production in, (E), 25:50075
interactions $K^+ + p$ at 12.7 GeV/c, π^- momentum distributions in, (E), 25:38670
interactions $K^+ + p$ at 12.7 GeV/c, search for new meson resonances in, (E), 23:1596
interactions $K^+ + p$ at 12.7 GeV/c, search for $S = 1$ and $S = 2$ meson resonances in, (E), 22:46338 (UR-875-250)
interactions $K^+ + p$ at 12.73 GeV/c, comparison of final states in, (E), 22:39276 (CERN-68-7(Vol.2), pp 172-89)
interactions $K^+ + p$ at 12.8 and 14.8 GeV/c, generalization of pomeron + resonance approach to wide-angle elastic, (E/T), 25:50142
interactions $K^+ + p$ at 140 to 1495 MeV/c, phase-shift analysis of, 22:15808
interactions $K^+ + p$ at 15 to 60 GeV/c total cross sections for, (E), 25:53014
interactions $K^+ + p$ at 160 to 580 MeV/c, space—time shifts and cross sections for relativistic wave packet collisions for time duration of, 22:15795
interactions $K^+ + p$ at 160 to 580 MeV/c, time shifts for s-wave elastic, 22:20260
interactions $K^+ + p$ at 175 to 1450 MeV/c, strangeness +1 baryon resonance production from, (E), 21:2383
interactions $K^- + p$ at 2 to 2.4 GeV/c, five-Regge pole model for polarization in elastic, 23:23472
interactions $K^- + p$ at 2 to 2.4 GeV/c, polarization and differential cross sections using Regge poles for elastic, (T), 23:3729 (LPTHE-TH-68/30)
interactions $K^+ + p$ at 2 to 20 GeV/c, hard-core potential in elastic, 23:15139
interactions $K^- + p$ at 2 to 20 GeV/c, hard-core potential in elastic, 23:15139
interactions $K^+ + p$ at 2 to 7 GeV/c, baryon Regge exchange model for backward elastic, 23:25636
interactions $K^+ + p$ at 2.0 to 7.0 GeV/c, Veneziano model for backward, 23:49164
interactions $K^- + p$ at 2.1 to 2.7 GeV/c, cross sections, resonance production, and mass spectra of, (E), 23:7090
interactions $K^+ + p$ at 2.1 to 2.7 GeV/c, total and differential cross sections for elastic, (E), 24:5252
interactions $K^- + p$ at 2.2 GeV/c, search for ionizing tachyon pairs from, (E), 25:45678
interactions $K^- + p$ at 2.23 GeV/c, eta*(960) production from, (E), 21:15273
interactions $K^- + p$ at 2.23 GeV/c, phi decay and branching ratio from, (E), 21:15274
interactions $K^- + p$ at 2.24 GeV/c in hydrogen bubble chamber, cross sections for elastic, (E), 21:29457
interactions $K^- + p$ at 2.24 GeV/c, one-particle exchange in, (E/T), 21:18914
interactions $K^- + p$ at 2.45 to 3.3 GeV/c, evidence for strangeness-1 baryon resonances in total cross sections for, (E), 24:37657
interactions $K^- + p$ at 2.45 to 3.30 GeV/c, $I = 1$, 2455- and 2595-MeV resonance production from, (E), 22:20144
interactions $K^- + p$ at 2.5 GeV/c, review of data on spin effects in elastic, 23:23478
interactions $K^+ + p$ at 2.50 GeV/c, phase shift analysis of, (T), 25:12115
interactions $K^+ + p$ at 2.53, 2.76, and 3.20 GeV/c, differential cross sections for elastic, (E), 25:22700
interactions $K^- + p$ at 2.66 GeV/c in hydrogen bubble chamber, total and elastic cross sections for, (E), 21:44286
interactions $K^- + p$ at 2.66 GeV/c, cross sections and angular distributions for, (E), 23:5549
interactions $K^- + p$ at 2.7 GeV/c, $(\Sigma\pi\pi)^+$ final state at 1660 MeV in, (T), 21:15359
interactions $K^+ + p$ at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions $K^- + p$ at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions $K^+ + p$ at 2.76 GeV/c, differential cross section for backward elastic, (E), 23:1604
interactions $K^- + p$ at 2.87 GeV/c in bubble chamber, $\Xi(1820)$ and $\Xi(1930)$ production in, (E), 24:24231
interactions $K^- + p$ at 2.9 GeV/c in bubble chamber, weighting procedure for first-order corrections for losses in cross sections of final states in, (E), 24:10676(R) (ORO-2504-148)
interactions $K^- + p$ at 2.9 GeV/c in hydrogen bubble chamber, production of Ξ resonances below 2 GeV in, (E), 25:25330
interactions $K^+ + p$ at 2.95 GeV/c in hydrogen bubble chamber, search for $S = +2$ meson in, 21:35273
interactions $K^- + p$ at 20 to 65 GeV/c, energy dependence of total cross sections for, (E), 25:56433
interactions $K^- + p$ at 20 to 65 GeV/c, total cross sections for, (E), 24:5258
interactions $K^- + p$ at 20 to 65 GeV/c, total cross sections for, (E), 25:5295
interactions $K^- + p$ at 20 to 65 GeV/c, total cross sections for, (E), 25:45666 (IFVE-SEF-69-87)
interactions $K^+ + p$ at 210 and 330 MeV, optimized polynomial representations for differential cross sections for coupling constants and nonspinflip amplitudes of, (T), 25:36532
interactions $K^- + p$ at 290 to 430 MeV/c in hydrogen bubble chamber, Σ^- and Σ^+ production from, (E), 22:3347 (UCRL-17781)
interactions $K^- + p$ at 3 GeV in hydrogen bubble chamber, production of K(890), K(1400) and $K\pi\pi$ systems, upper limits for production cross sections of isospin-3/2 K^*, and $K + \pi$ s-wave interactions in, (E), 25:56426 (FRNC-TH-53)
interactions $K^+ + p$ at 3 GeV/c, absorption model for, 22:37149
interactions $K^+ + p$ at 3 GeV/c, cross section for elastic, (E/T), 22:50390
interactions $K^- + p$ at 3 GeV/c, differential and total cross sections for, (E), 21:2372 (CEA-R-3037)
interactions $K^+ + p$ at 3 GeV/c, K^+K^+ resonance production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $K^+ + p$ at 3 GeV/c, spin effects on triangular graphs for, 21:2463 (AD-634339)
interactions $K^+ + p$ at 3 GeV/c, unitary S-matrix model for resonance production from, 22:15853
interactions $K^+ + p$ at 3.0 GeV/c, search for K^+K^+, $K^+\pi^+$, and K^+n resonances in, (E), 23:18818
interactions $K^+ + p$ at 3.0 to 5.0 GeV/c, production of Z^* in, (E), 22:50397
interactions $K^- + p$ at 3.3 GeV/c in hydrogen bubble chamber, cross sections for zero-, two-, and four-prong, (E), 25:45675
interactions $K^+ + p$ at 3.5 and 5 GeV/c, differential cross section for, (E/T), 22:41814
interactions $K^+ + p$ at 3.5 and 5.0 GeV/c, cross sections for elastic, (E), 21:3998
interactions $K^+ + p$ at 3.5 GeV/c, associated production in, (E), 25:3277
interactions $K^+ + p$ at 3.55 GeV/c, differential cross section for backward elastic, (E), 23:23363
interactions $K^- + p$ at 3.55 GeV/c, differential cross section for backward elastic, (E), 23:23363
interactions $K^+ + p$ at 3.75 to 4.40 GeV/c, polarization in elastic, (E), 23:36844
interactions $K^- + p$ at 3.9 to 5.0 GeV/c in hydrogen bubble chamber, $K^*(1420)$ production in, (E), 25:3287
interactions $K^- + p$ at 3.9 to 5.0 GeV/c, evidence for $\Xi(1815)$ and $\Xi(2030)$ resonances in, 23:1592 (BNL-12808)
interactions $K^- + p$ at 3.9, 4.6, and 5.0 GeV/c, production of $\Xi(1815)$, $\Xi(2030)$, and $\Xi(2430)$ with $S = -2$ in, (E), 23:8753
interactions $K^- + p$ at 360 to 720 MeV/c, $\Lambda(1520)$ and $\Sigma(1600)$ enhancement production and total cross sections for, (E), 25:12120
interactions $K^+ + p$ at 360 to 720 MeV/c, total cross sections for, (E), 25:12120
interactions $K^+ + p$ at 360 to 720 MeV/c, total cross sections for, (E), 25:25319
interactions $K^- + p$ at 4.1 and 5.5 GeV/c, cross sections and resonance production for quasi-two-body final states in, (E), 23:18790
interactions $K^- + p$ at 4.1 and 5.5 GeV/c, hyperon and meson final states from, (E), 21:17054
interactions $K^- + p$ at 4.1 and 5.5 GeV/c, $\Sigma^+\pi^-$ and $\Sigma^{+-}\pi^{-+}\pi^+\pi^-$ final states from, (E), 21:17042 (COO-1195-80)
interactions $K^- + p$ at 4.25 GeV, production of $\Xi^*(1530)$ and phi in, (E), 23:5547
interactions $K^- + p$ at 4.25 GeV/c in hydrogen bubble chamber, Ξ^* final states and higher-mass resonance production from, (E), 21:44276 (ORO-2504-108)
interactions $K^- + p$ at 4.25 GeV/c in hydrogen bubble chamber, resonances, K anti K pairs, and final states from, (E), 22:3268 (ORO-2504-109)
interactions $K^- + p$ at 4.25 GeV/c in hydrogen bubble chamber, cross sections for all final states with four or six prongs with one or more kinks in, (E), 24:21943
interactions $K^- + p$ at 4.25 GeV/c in hydrogen bubble chamber, partial cross sections for four-charged-prong plus neutral-vee decay final states in, (E), 24:15478
interactions $K^- + p$ at 4.25 GeV/c, resonance production in $\Xi K\pi$ and YK anti K final states from, (E), 21:21144
interactions $K^- + p$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, f^* (1500) production from, (E), 21:46488
interactions $K^- + p$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, Ω^- and Ξ^* production in, (E), 22:26573
interactions $K^- + p$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, $K^*(1420)$ production in, (E), 23:42579
interactions $K^- + p$ at 4.6 and 5.0 GeV/c in hydrogen bubble chamber, quasi-two-body cross sections for production of two charged particles and $\Lambda(\Sigma^0)$ in, (E), 25:59284
interactions $K^- + p$ at 4.6 and 5.0 GeV/c, low-mass $K\pi\pi$ enhancement in final states from, (T), 21:35311
interactions $K^- + p$ at 4.6 and 5.0 GeV/c, production of $f^*(1500)$ in, (E), 21:18991
interactions $K^+ + p$ at 4.6 GeV/c in bubble chamber, cross section for elastic, (E), 25:5296
interactions $K^- + p$ at 4.6 GeV/c, cross sections for elastic, (E), 23:14975
interactions $K^- + p$ at 436 to 793 MeV/c, partial and total cross sections for, (E), 25:1422
interactions $K^- + p$ at 450 to 670 MeV/c, angular distributions and polarizations of two-body final states in, (E/T), 25:25334
interactions $K^+ + p$ at 5 GeV/c, cross sections and angular correlations for six- and seven-body states in, (E), 25:59299
interactions $K^- + p$ at 5 to 12 GeV/c, charge exchange in, (E), 21:2386
interactions $K^+ + p$ at 5 to 16 GeV/c, triple Regge behavior in inclusive, (E/T), 25:45763
interactions $K^- + p$ at 5.0 GeV/c, Ω^- production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $K^+ + p$ at 5.2 and 6.9 GeV/c, angular distributions for backward, (E), 23:8757
interactions $K^+ + p$ at 5.2 and 7.0 GeV/c, differential cross sections for forward and backward elastic, (E), 25:14579
interactions $K^- + p$ at 5.5 GeV/c in bubble chamber, Ξ^- production in, (E), 24:37656
interactions $K^- + p$ at 5.5 GeV/c in hydrogen bubble chamber, cross sections for Ξ^-, Ξ^*, Ω^-, and K^* production in, (E), 24:1514 (COO-1195-165)
interactions $K^- + p$ at 5.5 GeV/c in hydrogen bubble chamber, angular distributions for Ξ^- and Ξ^* production in, (E), 24:8566 (COO-1195-172)
interactions $K^- + p$ at 5.5 GeV/c in hydrogen bubble chamber, Ξ^-, Ω^-, and phi production in, (E), 24:24240
interactions $K^- + p$ at 5.5 GeV/c, Ω^- production and decay in, (E), 22:26569
interactions $K^- + p$ at 5.5 GeV/c, Ω^- production from, (E), 21:17041 (COO-1195-79)
interactions $K^- + p$ at 5.5 GeV/c, production of $\Xi(1530)$, $\Xi(1820)$, $\Xi(1930)$, and $\Xi^-\pi^+\pi^-(2295)$ in, (E), 25:25329
interactions $K^+ + p$ at 5.5 GeV/c, resonance production and diffraction dissociation in four-prong, (E), 23:10753
interactions $K^- + p$ at 5.5 GeV/c, $Y_1^*(1680)$ production from, (E), 21:15262
interactions $K^+ + p$ at 50 to 150 GeV/c, proposed experiment for diffractive production of boson resonances in, 24:51959 (TID-25473(Vol.4), pp 281-9)
interactions $K^- + p$ at 50 to 150 GeV/c, proposed experiment for diffractive production of boson resonances in, 24:51959 (TID-25473(Vol.4), pp 281-9)
interactions $K^- + p$ at 594 to 820 MeV/c, cross sections and partial-wave analysis of elastic and charge-exchange, (E), 23:23377
interactions $K^- + p$ at 6 GeV, angular distributions and cross sections for Λ^0 production in, (E), 22:41750
interactions $K^- + p$ at 6 GeV/c in hydrogen bubble chamber, longitudinal momentum plots in three-body final states from, (E), 23:32626
interactions $K^- + p$ at 6 GeV/c in hydrogen bubble chamber, cross sections for multipole strange-particle production in, (E), 23:46619
interactions $K^- + p$ at 6 GeV/c, cross sections for Ω^- production in, (E), 22:20140
interactions $K^- + p$ at 6 GeV/c, differential cross sections for elastic, (E), 22:41746
interactions $K^- + p$ at 6 GeV/c, review of quasi-two-body channels in, 23:18795 (CONF-671217-, pp 589-695)
interactions $K^- + p$ at 6 to 17 GeV/c, angular distributions and cross sections for elastic, (E), 23:36852

interactions $K^- + p$ at 6 to 25 GeV/c, shadow scattering and Regge singularities in phenomenological analysis of, 21:23337
interactions $K^+ + p$ at 6 to 25 GeV/c, shadow scattering and Regge singularities in phenomenological analysis of, 21:23337
interactions $K^- + p$ at 600 to 1200 MeV/c, total cross sections for, (E/T), 23:8749
interactions $K^- + p$ at 620 to 850 MeV/c in hydrogen bubble chamber, $Y^*(1660)$ production from, 21:33621
interactions $K^+ + p$ at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions $K^- + p$ at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions $K^- + p$ at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions $K^+ + p$ at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions $K^+ + p$ at 7.3 GeV/c, cross sections for elastic, (E), 23:21059
interactions $K^- + p$ at 7.7 GeV/c, spark chamber momentum spectrometer for studying, 23:7796
interactions $K^- + p$ at 700 to 1400 MeV/c, differential cross sections for elastic, (E), 21:18922
interactions $K^- + p$ at 720 MeV/c, review of research at Duke Univ. July 1968 to June 1969, (E), 23:46610(R) (ORO-3065-17)
interactions $K^- + p$ at 777 to 1226 MeV/c, partial and differential cross sections for, (E), 23:10761
interactions $K^- + p$ at 780 to 1220 MeV/c, total cross sections for resonance production in, (T), 22:5507
interactions $K^- + p$ at 8 and 10 GeV/c, mass dependence of small-angle differential cross section in multi-Regge model for, 23:39727
interactions $K^+ + p$ at 8.25 GeV/c, cross sections for Y^* and N^* production in, (E), 25:59295
interactions $K^+ + p$ at 80 to 280 MeV/c in hydrogen bubble chamber, cross section for elastic, 21:37698 (COO-1195-87)
interactions $K^- + p$ at 800 to 1200 MeV/c, resonance production from, (E), 23:39607 (AD-687143)
interactions $K^- + p$ at 825 to 1115 MeV/c, sign of (K_1^0 - K_2^0) mass difference from, (E), 21:21135
interactions $K^- + p$ at 825 to 1125 MeV/c, sign of K_2^0 - K_1^0 mass difference from, (E), 22:11579
interactions $K^+ + p$ at 860 to 1200 MeV/c, cross section for K^* production in, (E), 22:39285
interactions $K^+ + p$ at 860 to 1360 MeV/c, single meson (π) and $\Delta(1236)$ production in, (E), 23:42566
interactions $K^+ + p$ at 864 to 1585 MeV/c, cross sections for stable final states and resonance production in, (E/T), 24:3543
interactions $K^- + p$ at 865 to 1330 MeV/c, polarization and differential cross sections for elastic, (E), 25:40891
interactions $K^+ + p$ at 9 GeV/c in bubble chamber, cross section for anti Ξ^+ production in, (E), 21:46485
interactions $K^+ + p$ at 9 GeV/c in hydrogen bubble chamber, L(1740) production from, (E), 22:1387 (UCRL-17833)
interactions $K^+ + p$ at 9 GeV/c, anti YN(2240) enhancement in, (E), 22:22321
interactions $K^+ + p$ at 9 GeV/c, search for $S = 2$ boson resonances in, (E), 22:37087
interactions $K^- + p$ at 9.7 and 13.6 GeV/c; angular distributions for, (E), 23:3647
interactions $K^- + p$ at 900 to 1100 MeV/c, search for production of $Y_1^*(1765)$ and $Y_0^*(1815)$ in, (E), 21:18913
interactions $K^- + p$ at 900 to 990 MeV/c, cross sections and angular distributions for $Y^*(1765)$ production and decay in, 21:35272
interactions $K^- + p$ at 900 to 990 MeV/c, $Y_1^*(1755)$ resonant cross section and branching ratios for, 21:25294
interactions $K^- + p$ at 982 to 1732 MeV/c, polarization and differential cross section data for, (E), 25:1427
interactions $K^- + p$ at high energies, compilation of cross sections for, (E), 25:19909 (CERN-HERA-70-6)
interactions $K^+ + p$ at high energies, contribution of Regge cut to cross sections for elastic, (E/T), 24:45517
interactions $K^- + p$ at high energies, contribution of Regge cut to cross sections for elastic, (E/T), 24:45517
interactions $K^- + p$ at high energies, cross sections for total annihilation and elastic, 24:15585
interactions $K^+ + p$ at high energies, dispersion relation calculation of real part of forward amplitude for, 23:7152
interactions $K^- + p$ at high energies, dispersion relation calculation of real part of forward amplitude for, 23:7152
interactions $K^+ + p$ at high energies, duality for large-angle, 25:50131
interactions $K^- + p$ at high energies, duality for large-angle, 25:50131
interactions $K^- + p$ at high energies, E_1-pole exchange model for elastic backward, 25:7673
interactions $K^+ + p$ at high energies, E_1-pole exchange model for elastic backward, 25:7673
interactions $K^- + p$ at high energies, factorizability quark model for vector meson production in, (T), 24:30523 (ITF-70-23)
interactions $K^+ + p$ at high energies, factorizability quark model for vector meson production in, (T), 24:30523 (ITF-70-23)
interactions $K^- + p$ at high energies, hybrid model in Regge pole theory for, 23:10829
interactions $K^- + p$ at high energies, model for inelastic, 21:23340
interactions $K^+ + p$ at high energies, Pomeranchuk theorem violation in Regge analysis of asymptotically unequal total cross sections for $K^- + p$ interactions and, 24:13100
interactions $K^- + p$ at high energies, Pomeranchuk theorem violation in Regge analysis of asymptotically unequal total cross sections for $K^+ + p$ interactions and, 24:13100
interactions $K^- + p$ at high energies, quark model for forward double-exchange production cross sections for, 22:22398
interactions $K^+ + p$ at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions $K^- + p$ at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions $K^+ + p$ at high energies, quark-droplet model for, (E/T), 21:924
interactions $K^- + p$ at high energies, quark-droplet model for, (E/T), 21:924
interactions $K^+ + p$ at high energies, Regge-pole model predictions for polarization in, 23:21108
interactions $K^- + p$ at high energies, Regge-pole model predictions for polarization in, 23:21108
interactions $K^- + p$ at high energies, review of backward, (E/T), 25:53029
interactions $K^+ + p$ at high energies, review of backward, (E/T), 25:53029
interactions $K^+ + p$ at high energies, review of three- and four-body and exotic final states in, (E), 25:17392
interactions $K^- + p$ at high energies, total cross sections and elastic, 24:49510
interactions $K^+ + p$ at high energies, total cross sections for, (E), 22:22299
interactions $K^- + p$ at high energies, total cross sections for, (E), 22:22299
interactions $K^- + p$ at low energies, consistency test for ΛKN coupling constant from parameters of, 23:32732
interactions $K^- + p$ at low energies, consistency tests of parametrization for, 23:32740
interactions $K^+ + p$ at low energies, field-theoretic model of, 25:30886
interactions $K^+ + p$ at low energies, forward dispersion relations for analysis of, 23:25627
interactions $K^- + p$ at low energies, $\Lambda K^- p$ and $\Sigma^0 K^- p$ coupling constants from dispersion relations for elastic, 23:23492
interactions $K^+ + p$ at low energies, off-mass-shell calculation of, 23:25641
interactions $K^- + p$ at low energies, off-mass-shell calculation of, 23:25641
interactions $K^- + p$ at low energies, review of, 21:40220
interactions $K^+ + p$ at low energies, superconvergent dispersion relation for forward, 22:46431
interactions $K^- + p$ at low energies, superconvergent dispersion relation for forward, 22:46431
interactions $K^+ + p$ at moderate energies, model-independent determination of real parts of forward amplitude for, (T), 25:17497 (JINR-E2-5216)
interactions $K^- + p$ at moderate energies, model-independent determination of real parts of forward amplitude for, (T), 25:17497 (JINR-E2-5216)
interactions $K^- + p$ at rest in emulsion nuclei, $\Sigma\pi$ production in, (E), 22:29641
interactions $K^- + p$ at rest in heavy-liquid bubble chamber, reaction processes from, (E), 22:15683
interactions $K^- + p$ at rest in hydrogen bubble chamber, Λ production in, (E), 23:42545
interactions $K^- + p$ at rest in hydrogen bubble chamber, Σ^- and Σ^+production in, (E), 25:5269
interactions $K^- + p$ at rest in hydrogen bubble chamber, upper limits for tachyon production in, (E), 23:51850 (NYO-1932(2)-148)
interactions $K^- + p$ at rest, computer program for Lorentz transformation of probability densities for Σ^- production and decay from, (E), 22:15736 (ORO-2504-111)
interactions $K^- + p$ at rest, Λ^0 lifetime from, (E), 21:3997
interactions $K^+ + p$ below 1.0 GeV/c in boundary condition model, S-wave elastic phase shift for, 25:7672
interactions $K^+ + p$ below 1.5 GeV/c, parametrization of scattering amplitude for analysis of, (T), 24:37787
interactions $K^+ + p$ below 2 GeV/c in isospin-zero state, cross sections for, (E), 25:25320
interactions $K^+ + p$ below 2 GeV/c, forward dispersion relations for partial-wave amplitudes of, (T), 25:22823
interactions $K^+ + p$ below 2 GeV/c, isotopic spin analysis of total cross sections of, (T), 25:25462
interactions $K^+ + p$ below 2 GeV/c, Reggeized phase shift analysis of, 25:28043
interactions $K^+ + p$ below 2.0 GeV/c, phase-shift analysis of elastic, 25:3393
interactions $K^+ + p$ below 2.5 GeV/c, pomeron amplitude in, 25:22834
interactions $K^- + p$ below 280 MeV/c, K-matrix analysis of, (E/T), 24:49523
interactions $K^+ + p$ below 3.3 GeV/c, transmission counter study of total cross sections for, 21:27299 (BNL-11372)
interactions $K^- + p$ below 3.3 GeV/c, transmission counter study of total cross sections for, 21:27299 (BNL-11372)
interactions $K^- + p$ below 300 MeV/c, K-matrix analysis of, 23:46724
interactions $K^+ + p$ below 600 MeV/c, s- and p-wave scattering lengths for, (T), 25:59489
interactions $K^+ + p$ below 642 MeV/c, long-range interactions in, (T), 21:27373
interactions $K^- + p$ below threshold, ΛKN coupling and K^- absorption in nuclei at rest for extrapolation of, (T), 25:30902
interactions $K^+ + p$ in dual absorptive model, differential cross sections for elastic, 25:33762
interactions $K^- + p$ in dual absorptive model, differential cross sections for elastic, 25:33762
interactions $K^+ + p$ in interference model, effect of Z^* on elastic, (T), 24:49500
interactions $K^- + p$ in interference model, effect of Z^* on elastic, (T), 24:49500
interactions $K^+ + p$ in quark model in collinear group, cross section relations for elastic and inelastic, 21:40203
interactions $K^- + p$ in quark model in collinear group, cross section relations for elastic and inelastic, 21:40203
interactions $K^- + p$ in quark model with spin structure, factorizability hypothesis for differential cross sections of inelastic, 23:42671 (ITF-69-28)
interactions $K^+ + p$ in quark model with spin structure, factorizability hypothesis for differential cross sections of inelastic, 23:42671 (ITF-69-28)
interactions $K^- + p$ in quark model, production of neutral vector and pseudoscalar mesons in, (T), 22:35009
interactions $K^+ + p$ in Regge-pole formalism with duality, slopes of angular distributions of elastic, (T), 24:47457
interactions $K^+ + p$ in Veneziano model, differential cross sections for charge-exchange and backward elastic, 25:36507
interactions $K^+ + p$ in Veneziano model, phase shifts for, 25:36507
interactions $K^- + p$ interactions at 3.9 to 5.0 GeV/c, production of $S = -2$ $\Xi(1930)$ resonance in, (E/T), 22:52940
interactions $K^- + p$ interactions at 5.5 GeV/c, Ξ^* resonances in, (E), 24:28488 (COO-1195-184)
interactions $K^- + p$ Regge pole model and moving branch points in j-plane for crossover with $K^+ + p$ interactions and ωP branching contribution for, 24:3679
interactions $K^- + p$ to 10 GeV/c, cross sections for inelastic, (E), 22:17873
interactions $K^+ + p$ to 2.5 GeV/c, phase-shift analysis of elastic, 24:42969
interactions $K^+ + p$ up to 2 GeV/c, energy-dependent phase-shift analysis of, (E/T), 22:52945
interactions $K^- + p$ up to 250 MeV/c, nuclear emulsion measurements of cross sections for, (E), 23:13036
interactions $K^- + p$ with charge exchange, sum rules for neutral meson production in, 22:52982
interactions $K^- + p$ with strangeness exchange, branching ratios for neutral meson production in, 22:52982
interactions $K^- + p$ $\Xi^- + K^+$ at 1.65 GeV/c, Ξ^- polarization in, (E), 25:7535 (BMBW-FBK-70-16)
interactions $K^- + p$, angular distribution and cross sections for charge-exchange, (E), 21:878 (NEVIS-149)
interactions $K^+ + p$, at 0.86 to 1.58 GeV/c in bubble chamber, cross sections for elastic and inelastic, (E), 22:50296 (UCRL-18323)
interactions $K^+ + p$, chiral SU(3) x SU(3) algebra for, 23:23459
interactions $K^+ + p$, Chou—Yang model for calculation of charge form factor from, 25:17446
interactions $K^+ + p$, comparison of Regge analysis and phase shifts for elastic, 24:15591
interactions $K^+ + p$, compilation of cross section variation with incident momentum for, (E), 25:38658 (CERN-HERA-70-4)
interactions $K^- + p$, CP nonconservation in, 22:20236
interactions $K^+ + p$, crossing relations for comparison of anti $p + p \to K^+ + K^-$ interactions and backward elastic, 23:46721
interactions $K^- + p$, crossing relations for comparison of anti $p + p \to K^+ + K^-$ interactions and backward elastic, 23:46721
interactions $K^+ + p$, current algebra and PCAC for sum rule for real part of amplitude for, 21:40227
interactions $K^- + p$, current algebra and PCAC for sum rule for real part of amplitude for, 21:40227
interactions $K^- + p$, current algebra and PCAC for sum rule for real part of amplitude for, 21:40227
interactions $K^+ + p$, current algebra and Regge pole theory for total cross sections for, 21:29521
interactions $K^- + p$, current algebra and Regge pole theory for total cross sections for, 21:29521
interactions $K^+ + p$, data compilation of cross sections, angular distributions, polarization and phase shift analysis for, (E), 24:6719 (UCRL-20000-KN)
interactions $K^+ + p$, determination of coupling constants from π and $\Lambda + \Sigma$ poles in, (T), 22:32154
interactions $K^- + p$, differential cross sections for elastic, 23:10817
interactions $K^+ + p$, differential cross sections for production of axial vector mesons in Regge pole model for, (T), 23:5619
interactions $K^- + p$, differential cross sections for production of axial vector mesons in Regge pole model for, (T), 23:5619
interactions $K^+ + p$, dip cancellation by interference of Regge trajectories in backward elastic, 23:25635
interactions $K^+ + p$, dispersion relation calculation of real parts of forward amplitudes of, (T), 25:17479
interactions $K^- + p$, dispersion relation calculation of real parts of forward amplitudes of, (T), 25:17479
interactions $K^- + p$, dispersion relation calculation of real parts of forward amplitudes of, (T), 25:17479
interactions $K^+ + p$, dispersion relations calculations of forward, 22:24638
interactions $K^+ + p$, dispersion relations for dynamics of s-wave, 23:5629
interactions $K^+ + p$, dispersion relations for forward amplitudes of, 21:2478
interactions $K^- + p$, dispersion relations for forward amplitudes of, 21:2478
interactions $K^+ + p$, dispersion-relation calculation of real part of amplitude for, 24:37791
interactions $K^- + p$, dispersion-relation calculation of real part of amplitude for, 24:37791
interactions $K^- + p$, duality for total cross section relations in quark model for, 24:35653 (ITF-70-24)
interactions $K^+ + p$, duality for total cross section relations in quark model for, 24:35653 (ITF-70-24)

interactions K^+ + p, eikonal Regge model for elastic, 25:9755
interactions K^- + p, eikonal Regge model for elastic, 25:9755
interactions K^+ + p, empirical analysis of differences and sums of angular distributions for, (T), 25:59477
interactions K^- + p, empirical analysis of differences and sums of angular distributions for, (T), 25:59477
interactions K^- + p, energy dependence of cross sections for inelastic, (E/T), 24:24373
interactions K^+ + p, energy dependence of cross sections for inelastic, (E/T), 24:24373
interactions K^+ + p, extraction of ΛK^-p and ΣK^-p coupling constants from forward amplitudes of, 25:33735
interactions K^- + p, extraction of ΛK^-p and ΣK^-p coupling constants from forward amplitudes of, 25:33735
interactions K^+ + p, finite-energy dispersion relations for determination of forward amplitudes and coupling constants for, 25:1534
interactions K^- + p, finite-energy dispersion relations for determination of forward amplitudes and coupling constants for, 25:1534
interactions K^+ + p, forward dispersion relation predictions of differential cross sections for, (E/T), 22:24667
interactions K^- + p, forward dispersion relation predictions of differential cross sections for, (E/T), 22:24667
interactions K^- + p, generalized quark model for cross sections and spin density matrix elements for strangeness-exchange, 22:29693
interactions K^- + p, heavy photon production in, (E/T), 21:2424
interactions K^- + p, interference in resonance production in, (T), 23:49162
interactions K^+ + p, interference phenomena associated with boson resonance production from, (T), 21:46540
interactions K^- + p, interpretation of $Y_0^*(1405)$ as KN boundstate from, (T), 21:878 (NEVIS-149)
interactions K^+ + p, j-plane singularities in superconvergent sum rules for, 23:27804
interactions K^- + p, j-plane singularities in superconvergent sum rules for, 23:27804
interactions $K^+ + p \rightarrow K^+ + p + 2\pi^+ + 2\pi^-$ at 4.97 GeV/c in hydrogen bubble chamber, π^+ angular correlations and resonance production in, (E), 25:30745
interactions K^- + p, $K^- p\Lambda$ and $K^- p\Sigma^0$ coupling constant relations from dispersion relation calculations of forward, 22:24638
interactions K^- + p, $K^-p\Lambda$ and $K^-p\Sigma^0$ coupling constants from dispersion relations for forward elastic, (T), 23:42676
interactions K^+ + p, ΛK coupling constant in dispersion relations for real parts of amplitudes of forward, (T), 25:47872
interactions K^- + p, ΛK coupling constant in dispersion relations for real parts of amplitudes of forward, (T), 25:47872
interactions K^+ + p, mass and width of Δ(1236) from, 24:18194
interactions K^+ + p, model-independent determination of real parts of amplitudes for forward, 25:20013
interactions K^- + p, model-independent determination of real parts of amplitudes for, 25:20013
interactions K^- + p, peripheral SU(6)/sub W/ model for resonance polarization from, 21:40261 (NP-16936)
interactions K^+ + p, peripheral SU(6)/sub W/ model for resonance polarization from, 21:40261 (NP-16936)
interactions K^+ + p, phase shift analysis of, 23:8807 (INP-622(Vol.1), pp 105-46)
interactions K^- + p, phenomenological meson—baryon coupling model based on quark model with broken SU(6) x O(3) for Y^* production in total cross sections for, 24:3725
interactions K^- + p, phenomenological model of meson—baryon couplings for, (T), 24:47447 (CONF-690557-(Vol.2), pp 781-95)
interactions K^- + p, polarization of resonances in peripheral SU(6)/sub W/ model for, 22:3491
interactions K^+ + p, polarization of resonances in peripheral SU(6)/sub W/ model for, 22:3491
interactions K^+ + p, Pomeranchuk dominance of imaginary part of amplitude for elastic, 25:45758
interactions K^+ + p, prediction for ΛKN and ΣKN coupling constants from energy-dependent finite-energy sum rule for, 22:22404
interactions K^+ + p, predictions for K^+ + N interactions from SU(3) symmetry for backward, 22:20142
interactions K^+ + p, production of decuplet baryon resonances in broken U(6,6) from, 21:40229
interactions K^- + p, production of decuplet baryon resonances in broken U(6,6) from, 21:40229
interactions K^+ + p, proposed experiment for hybrid spectrometer and rapid-cycling neon bubble chamber study of diffraction dissociation in, 24:51958 (TID-25473(Vol.4), pp 275-9)
interactions K^+ + p, proton matrix element of kaon Σ-commutator term in elastic, 25:53192
interactions K^+ + p, quark model with factorization hypothesis for inelastic, 24:24385
interactions K^- + p, quark model with factorization hypothesis for inelastic, 24:24385
interactions K^- + p, Regge analysis of, 24:15591
interactions K^+ + p, Regge fits to backward differential cross sections with trajectory exchange in, 24:21986
interactions K^+ + p, Regge pole exchange for oscillatory behavior of, 24:42990
interactions K^+ + p, Regge pole model and moving branch points in j-plane for crossover with K^- + p interactions and ωP branching contribution for, 24:3679
interactions K^- + p, Regge-pole model for charge- and hypercharge-exchange, 21:15355
interactions K^+ + p, resonances and antishrinkage of diffraction peak in, 21:46529
interactions K^- + p, resonances and antishrinkage of diffraction peak in, 21:46529
interactions K^+ + p, review and analysis of data on Kππ system from, 23:14991
interactions K^- + p, review and analysis of data on Kππ system from, 23:14991
interactions K^- + p, review of Λ(1520) production in, (E), 24:40250 (UCRL-19765)
interactions K^- + p, review of, (T), 21:15339
interactions K^+ + p, review of, (T), 21:15339
interactions K^+ + p, review on strangeness-1 and -2 resonance production in, 21:18992
interactions K^+ + p, s-channel spin-nonflip amplitude in pomeron exchange for existence of Z_1^* in, (T), 25:33738
interactions K^- + p, scattering lengths and low-energy behavior of anti K + N, π + Λ, and π + Σ amplitudes from K-matrix analysis of, 23:46725
interactions K^+ + p, soft-point PCAC scattering length for, 25:53221
interactions K^- + p, soft-point PCAC scattering length for, 25:53221
interactions K^- + p, spark chamber for detecting neutral particles produced in, 21:6215
interactions K^- + p, SU(3) for three-body final-state hadron production from, 21:42400
interactions K^+ + p, SU(3)-invariant t-channel amplitudes for, 21:40221
interactions K^- + p, SU(3)-invariant t-channel amplitudes for, 21:40221
interactions K^+ + p, sum rule for limitation of parametrization for asymptotic behavior of amplitudes of, (T), 25:1550
interactions K^- + p, sum rule for limitation of parametrization for asymptotic behavior of amplitudes of, (T), 25:1550
interactions K^+ + p, sum-rule analysis of, 22:7517
interactions K^- + p, sum-rule analysis of, 22:7517
interactions K^- + p, Σ^+, Σ^-, and Σ^0 production in, (E), 21:878 (NEVIS-149)
interactions K^- + p, three-triplet model for backward elastic, 23:25681
interactions K^+ + p, two-pion exchange contributions to, 22:41812
interactions K^+ + p, unitarity corrections to current-algebra amplitudes of s-wave, 23:18919
interactions K^+ + p, unsubtracted dispersion sum rule for, (T), 22:39409
interactions K^- + p, unsubtracted dispersion sum rule for, (T), 22:39409
interactions K^- + p, upper limit on production rate of tachyons in, (E), 24:28499
interactions K^- + p, urbaryon rearrangement diagrams for amplitudes of, 25:12183
interactions K^+ + p, use of current algebra for test of pole-dominance hypothesis for, 22:3441
interactions K^+ + p, weak duality for slopes of angular distribution of elastic, 25:30873
interactions K^- + p, weak duality for slopes of angular distributions of elastic, 25:30873
interactions K- + p in Regge-pole formalism with duality, slopes of angular distributions of elastic, (T), 24:47457
interactions $\Lambda + p \rightarrow 3\gamma^0 + p$ at 300 to 1500 MeV/c, cross sections and angular distributions for, 25:22675
interactions $\Lambda + p \rightarrow \Lambda + p + \pi^0$ at 0.88 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Lambda + p \rightarrow \Lambda + p + \pi^0$ at 300 to 1200 MeV/c in hydrogen bubble chamber, (E), 24:47374 (CONF-690557-(Vol.2), pp 852-61)
interactions $\Lambda + p \rightarrow \Lambda + p + \pi^0$ at 300 to 1500 MeV/c, cross sections and angular distributions for, 25:22675
interactions $\Lambda + p \rightarrow \Lambda + p + \pi^+ + \pi^-$ at 1 to 5 GeV/c, meson-exchange mechanism and cross section for $Y_1^*(1385)$ production in, (E), 21:42261
interactions $\Lambda + p \rightarrow \Lambda + p + \pi^+ + \pi^-$ at 1.36 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Lambda + p \rightarrow \Lambda + p$ at 0.5 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Lambda + p \rightarrow \Lambda + p$ at 1 to 5 GeV/c, cross sections for, (E), 21:42261
interactions $\Lambda + p \rightarrow \Lambda' + p$ at 300 to 1200 MeV/c in hydrogen bubble chamber, (E), 24:47374 (CONF-690557-(Vol.2), pp 852-61)
interactions $\Lambda + p \rightarrow \Lambda + p$ at 300 to 1500 MeV/c, cross sections and angular distributions for, 25:22675
interactions $\Lambda + p \rightarrow \Lambda + p$, one-boson-exchange model for differential and total cross sections for, 22:20274
interactions $\Lambda + p \rightarrow n + p$, effects of initial- and final-state interactions on vector-meson exchange in, 21:29568
interactions $\Lambda + p \rightarrow n + \Sigma^+$, one-boson-exchange model for differential and total cross sections for, 22:20274
interactions $\Lambda + p \rightarrow p + n$, SU(6) symmetry for aplitudes of, 22:48279
interactions $\Lambda + p \rightarrow \Sigma + p + \pi$ at 1 to 5 GeV/c, final-state resonance production and cross sections for, (E), 21:42261
interactions $\Lambda + p \rightarrow \Sigma^0 + p$ at 0.66 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Lambda + p \rightarrow \Sigma^0 + p$ at 300 to 1200 MeV/c in hydrogen bubble chamber, (E), 24:47374 (CONF-690557-(Vol.2), pp 852-61)
interactions Λ + p at 0.5 to 4.0 GeV/c in bubble chamber, total cross sections for, (E), 24:49323
interactions Λ + p at 1 to 5 GeV/c in hydrogen bubble chamber, elastic and total cross sections and final-state resonance production in, (E), 25:9631
interactions Λ + p at 110 to 330 MeV/c in hydrogen bubble chamber, cross section measurements for elastic, (E), 22:50289 (ORO-2504-123)
interactions Λ + p at 110 to 330 MeV/c, cross sections for elastic, (E), 23:5532
interactions Λ + p at 120 to 320 MeV/c, differential and total cross sections for elastic, (E), 22:50305
interactions Λ + p at 120 to 320 MeV/c, potential model for, (T), 24:47472 (CONF-690557-(Vol.2), pp 814-25)
interactions Λ + p at 3 to 20 GeV, Regge pole model for, 24:52129
interactions Λ + p at 400 to 1300 MeV/c in hydrogen and deuterium bubble chambers, cross section for elastic, (E), 21:46479
interactions Λ + p at 80 to 170 GeV/c, proposed experiment for total and small-angle elastic cross sections for, 24:51934 (TID-25473(Vol.4), pp 307-12)
interactions Λ + p at high energies, review of resonances in, (E), 24:51945
interactions Λ + p at low energies, one-boson-exchange potential model for, (T), 25:3416
interactions Λ + p at low energies, potential model for $^3S_1$ Λp resonance and effective range parameters for, 23:34622
interactions Λ + p at low energies, review of research on, (E), 22:17854
interactions Λ + p at low energies, use in calculating Λ-H^3 binding energy, 21:29567
interactions Λ + p from $K^- + d \rightarrow \pi^- + p + \Lambda$ interactions at rest, final-state, (E), 23:42550
interactions Λ + p from $\pi^+ + d \rightarrow p + \Lambda + (K\pi)^+$ interactions at 3.65 GeV/c, (2165) enhancement in, (E), 22:46339
interactions Λ + p in A = 50 hyperfragments, kinematical calculation of energy spectra of fast proton emission from stimulated, 22:9625
interactions Λ + p in bubble chamber, compilation of cross sections, angular distributions, and polarizations for, (E), 25:38648 (UCRL-20000 YN)
interactions Λ + p in hydrogen bubble chamber, review of low-energy parameters and Λp resonance in, (E), 24:47366 (CONF-690557-(Vol.1), pp 5-50)
interactions Λ + p in Λ-He^4 and Λ-He^5 hyperfragment nonmesic to π^--mesic decay ratios in emulsions, spin dependence of weak, (E), 24:37614
interactions Λ + p, calculations using effective range approximation with Yukawa Λ + N potentials, 21:29876
interactions Λ + p, cross sections for elastic, (T), 25:59525
interactions Λ + p, data compilation on, (E), 23:32617
interactions Λ + p, effects of n + p tensor interactions in Λ - H^3 on parameters for, (T), 22:22412
interactions Λ + p, exact solution of Faddeev equations for hypertritium for analysis of, 24:18233
interactions Λ + p, phenomenological potentials for, 25:1567
interactions Λ + p, potential parameters for, (T), 21:38421
interactions $\mu + p \rightarrow \mu + \gamma + p$, proposed experiment for test of quantum electrodynamics in, 24:52177 (TID-25473(Vol.4), pp 101-9)
interactions $\mu + p \rightarrow \mu$ + hadrons + particles, light-cone analysis for scaling behavior of inclusive, 25:47780
interactions $\mu + p \rightarrow \mu + p + \gamma$, proposed experiment for search for heavy μ and test of quantum electrodynamics in wide-angle, 24:51884 (TID-25473(Vol.4), pp 123-38)
interactions $\mu + p \rightarrow \mu + p + \gamma$, test of quantum electrodynamics from vertical photon Compton effect in, 22:48256 (LNF-68/38)
interactions $\mu + p \rightarrow \mu + p + \gamma$, test of quantum electrodynamics and virtual-proton Compton effect in, 23:7118
interactions $\mu + p \rightarrow \mu + p$ at 100 GeV, proposed experiments on, 24:51883 (TID-25473(Vol.4), pp 77-8)
interactions $\mu + p \rightarrow \mu + p$ at high energies, equal strengths for second- and first-order contributions to, 25:1428
interactions $\mu + p \rightarrow \mu + p$ at high energies, polarization effects from weak neutral currents in, (T), 25:40940 (NYO-3829-70)
interactions $\mu + p \rightarrow \mu + p$, form factors of protons from, 21:29460
interactions $\mu + p \rightarrow \mu + p$, proton electromagnetic form factors from data on, (T), 25:50090 (JINR-P2-5901)
interactions μ + p at 1 to 6 GeV, parameters for possible $\mu^+ + \mu^+$ and $\mu^- + \mu^-$ colliding beam interactions from spark chamber study of, (E), 22:22276 (CONF-670923-, pp 409-51)
interactions μ + p at 1.0 to 6.0 GeV/c, spark chamber and scintillation counter study of differential cross section relation with e + p interactions for elastic, (E), 22:3248
interactions μ + p at 1.5 to 6.0 GeV/c, cross section for elastic, (E), 22:15665
interactions μ + p at 10 GeV/c, calculation of event rate in bubble chamber for inelastic, 23:18807 (SLAC-92)
interactions μ + p at 10^{13} eV, photonuclear energy loss coefficient from, (T), 25:22754
interactions μ + p at 100 GeV, proposal for vertex spectrometer for studying, 24:52326 (TID-25473(Vol.3), pp 293-312)
interactions μ + p at 100 GeV, proposed experiment for deep inelastic, 24:51910 (TID-25473(Vol.4), pp 85-99)
interactions μ + p at 12 GeV/c, test of μ—e universality from comparison of e + p inelastic interactions and inelastic, (E/T), 25:50050
interactions μ + p at 150 GeV, self-coupling of weak lepton currents in anti τ—τ pair production in, (T), 25:43612

interactions $\mu + p$ at high energies, lepton charge structure from relation with $e + p$ interactions, (E), 22:13636
interactions $\mu + p$ at high energies, meson (μ) interaction properties from, (T), 23:34613
interactions $\mu + p$ at high momentum transfer, inequality for backward, 22:5550
interactions $\mu + p$, anomalous interaction for cross section ratio for $e + p$ and, 25:3324
interactions $\mu + p$, contribution of Neeman fifth interaction to cross section for, 24:24325
interactions $\mu + p$, form factor for N*(1236) production from, 21:18941 (UR-875-189)
interactions $\mu + p$, P-odd effects in, 23:23438
interactions $\mu + p$, proposed experiment for μ—e universality tests of quantum electrodynamics in, 24:52177 (TID-25473(Vol.4), pp 101-9)
interactions $\mu + p$, radiative corrections to elastic and inelastic, 23:15039
interactions $\mu + p$, review of elastic, 22:50345
interactions $\mu + p$, weak interaction effects in, (T), 23:13060
interactions $\mu^+ + p \to \mu^+ + p$ at 6 and 11 GeV/c, spark chamber study of one-photon exchange in, (E), 23:36821
interactions $\mu^+ + p \to \mu^+ + p$ at 6 and 11 GeV/c, spark chamber study of μ — e universality in comparison of $e + p$ elastic cross sections with cross sections for, (E), 23:36820
interactions $\mu^+ + p \to \mu^+ + p$ at 6 and 11 GeV/c, test of μ - e universality from momentum transfer range dependence relative to $e + p \to e + p$ interactions and absolute magnitude of cross sections for, (E), 24:10660 (NEVIS-176)
interactions $\mu^- + p \to \mu^- + p$ at 6 to 17 GeV/c, spark chamber study of μ — e universality in comparison of $e + p$ elastic cross sections with cross sections for, (E), 23:36820
interactions $\mu^- + p \to \mu^- + p$ at 6 to 17 GeV/c, spark chamber study of one-photon exchange in, (E), 23:36821
interactions $\mu^- + p \to \mu^- + p$ at 6 to 17 GeV/c, test of μ - e universality from momentum transfer range dependence relative to $e + p \to e + p$ interactions and absolute magnitude of cross sections for, (E), 24:10660 (NEVIS-176)
interactions $\mu^- + p \to \mu^- + p$, general expression for differential cross section for polarization dependence of, (T), 22:39329
interactions $\mu^- + p \to n + \tau + \gamma$, symmetry breaking in photonic matrix elements of vector currents in, 24:28579
interactions $\mu^- + p \to n + \tau$ from capture in gaseous and molecular hydrogen, 23:25846
interactions $\mu^- + p \to n + \tau$ in gaseous hydrogen, μ^- nuclear capture rate from, (E), 23:18792
interactions $\mu^- + p \to n + \tau$ in meson (μ^-) capture by nuclei, constants for, (T), 22:13717
interactions $\mu^- + p \to n + \tau$ in meson (μ^-) capture by nuclei, neutron asymmetry from, (T), 22:13716
interactions $\mu^- + p \to n + \tau$, analysis using V-A theory, (T), 24:52437
interactions $\mu^- + p \to n + \tau$, field and quark algebra predictions from identity for relation of current commutator with rate of, (T), 25:17455
interactions $\mu^- + p \to n + \tau$/sub μ/ $+ \gamma$, second class currents for, (T), 21:42324 (ITEF-491)
interactions $\mu^- + p \to n + \tau$/sub μ/ $+ \gamma$, second-kind currents for, (T), 22:13723
interactions $\mu^- + p \to n + \tau$/sub μ/ in hydrogen, nuclear capture rate for, (E), 21:46470
interactions $\mu^- + p \to n + \tau$/sub μ/, development of system of proportional detectors for use as high-pressure gas target for studying, 21:45418
interactions $\mu^- + p \to n + \tau$/sub τ/ in nuclear μ^- capture, universal V—A theory for, 22:5577
interactions $\mu^- + p \to \tau + \gamma + n$, weak axial-vector current in, 21:5377
interactions $\mu^- + p \to \tau + n$, (T), 21:42373
interactions $\mu^- + p \to \tau$/sub μ/ $+ n$, (T), 21:15307
interactions $\mu^+ + p \to p + \mu^+$ at 6 and 11 GeV, tests of one-photon-exchange model and μ - e universality in, (E), 24:8558 (NEVIS-178)
interactions $\mu^- + p \to p + \mu^-$ at 6 to 17 GeV, tests of one-photon-exchange model and μ - e universality in, (E), 24:8558 (NEVIS-178)
interactions $\mu^- + p \to p + W^- + \tau$, model for W^+ production in, 25:14643
interactions $\mu^- + p \to p + W^- + \tau$, total cross sections for, 24:24270
interactions $\mu^- + p \to \pi^0 + \mu^- + p$, polarized incident μ^- for asymmetry in, (T), 25:17440
interactions $\mu^+ + p \to W^+ +$ anti $\tau + p$ at 3 to 300 GeV, total cross sections for, (T), 24:40333
interactions $\mu^- + p \to W^- + \mu + p$ at 3 to 300 GeV, total cross sections for, (T), 24:40333
interactions $\mu^+ + p$ at 10 GeV/c, vector dominance for virtual $\gamma + p$ total cross sections from differential cross sections for inelastic, (E), 24:3501
interactions $\mu^+ + p$ at 10 GeV/c, virtual $\gamma + p$ interaction from spark chamber study of differential cross sections and virtual $\gamma + p$ absorption cross sections in inelastic, (E), 24:3500
interactions $\mu^+ + p$ at 100 to 200 GeV, proposed 25-foot bubble chamber performance for study of inelastic, 24:50593 (TID-25473(Vol.2), pp 89-90)
interactions $\mu^- + p$ at high energies using polarized target, μ structure from small-angle, (T), 21:44345
interactions $\mu^- + p$ at high energies, total cross sections for production of hypothetical massive spin-1 electromagnetic bosons in, (T), 25:53107
interactions $\mu^+ + p$ at high energies, total cross sections for production of hypothetical massive spin-1 electromagnetic bosons in, (T), 25:53107
interactions $\mu^+ + p$, model for renormalizable theory for weak, 22:48280
interactions $\mu^- + p$, model for renormalizable theory for weak, 22:48280
interactions $\mu^+ + p$, renormalizable theory of weak interactions for, 22:44386 (ITEF-580)
interactions $\mu^- + p$, renormalizable theory of weak interactions for, 22:44386 (ITEF-580)
interactions $n + p \to 2p + \pi^-$ at 2 to 10 GeV/c in propane bubble chamber, estimate of admixture to, (E/T), 24:1505 (JINR-P1-4642)
interactions $n + p \to 2p + \pi^-$ at 2 to 10 GeV/c, peripheral nature, zero-isospin exchange, total cross sections, and production cross sections for $\Delta(1236)$, N(1470), and N(1688) production in, (E), 25:14551
interactions $n + p \to 2p + \pi^-$ at 2 to 30 GeV, Reggeized one-pion-exchange model for π exchange and diffraction production of N(1470) and N(1688) in, (T), 25:56521 (JINR-P1-5975)
interactions $n + p \to 3p + \gamma$, weak-interaction Hamiltonian for photon polarization in, (T), 25:20039
interactions $n + p \to d + 2\gamma$ at 0.025 eV, cross sections and photon angular and spectral distributions for, (T), 25:59527
interactions $n + p \to d + \gamma$ at 160 to 640 MeV, test of time reversal invariance in optical spark chamber study of differential and total cross sections for, (E), 24:3510 (PURC-2137-13)
interactions $n + p \to d + \gamma$ at 160 to 640 MeV, test of time reversal invariance in optical spark chamber study of differential and total cross sections for, (E), 24:3510 (PURC-2137-13)
interactions $n + p \to d + \gamma$ at 160 to 640 MeV, time reversal invariance in differential and total cross sections, (E), 23:51852
interactions $n + p \to d + \gamma$ at 160 to 640 MeV, time reversal invariance in $\gamma + d \to n + p$ interactions from study of angular distributions and total cross sections for, (E), 24:1506 (PPAR-20)
interactions $n + p \to d + \gamma$ at 300 to 700 MeV, time reversal invariance in $\gamma + d \to n + p$ interactions from study of angular distributions from, (E), 24:1507 (UCRL-19350)
interactions $n + p \to d + \gamma$ at 475 to 750 MeV, time reversal invariance in angular distributions for, (E), 25:53016
interactions $n + p \to d + \gamma$ at low energies, parity nonconservation from γ circular polarization in, (E), 24:30443
interactions $n + p \to d + \gamma$, calculation of cross sections using meson exchange currents, (T), 25:5545
interactions $n + p \to d + \gamma$, circular polarization of γ from, (T), 25:45717
interactions $n + p \to d + \gamma$, effects of weak parity-nonconserving potentials in, 23:3758
interactions $n + p \to d + \gamma$, field—current identity for parity-violating internucleon potential from rho, ω, and phi exchange in, (T), 23:30770
interactions $n + p \to d + \gamma$, model of intermediate nucleon isobar for, 25:56525
interactions $n + p \to d + \gamma$, parity violation in, 22:9655
interactions $n + p \to d + \gamma$, π exchange effects in, (T), 24:51946
interactions $n + p \to d + \gamma$, relation of effective Lagrangian for nonleptonic weak interactions with Lagrangian for, (T), 25:59418
interactions $n + p \to d + \gamma$, test of time reversal invariance in total and differential cross sections for, (E), 25:12238
interactions $n + p \to d + \gamma$, weak-interaction Hamiltonian for photon polarization in, (T), 25:20039
interactions $n + p \to d + \pi$, model of intermediate nucleon isobar for, 25:56525
interactions $n + p \to d + \pi^0$ at 275 to 700 MeV, charge independence in differential and total cross sections for, (E), 24:37628
interactions $n + p \to d + \pi^0$ at 275 to 700 MeV, test of charge independence in, (E), 24:12933 (PURC-2137-17)
interactions $n + p \to d + \pi^0$ from threshold through first resonance peak, spark chamber study of charge independence from differential and total cross sections for, (E), 25:14549
interactions $n + p \to d + \pi^0$ from threshold to 720 MeV, charge independence test for $\pi + N$ interactions from, (E), 23:42548 (PURC-2137-9)
interactions $n + p \to d +$ rho, model of intermediate nucleon isobar for, 25:56525
interactions $n + p \to d +$ sigma(310), model of intermediate nucleon isobar for, 25:56525
interactions $n + p \to \gamma + d$ at 300 to 700 MeV, wire spark chamber spectrometer study of angular distribution for, (E), 23:44642(R) (UCLA-34-P-106-38)
interactions $n + p \to \gamma + d$ at 300 to 720 MeV, test of time-reversal invariance from angular distribution for, (E), 25:40868
interactions $n + p \to \gamma + d$ at 300 to 730 MeV, preliminary results on, (E), 22:44297(R) (UCLA-34-P-106-27)
interactions $n + p \to \gamma + d$, parity-violating internucleon potential for, (T), 25:17545
interactions $n + p \to \gamma + d$, test of T invariance in, (E) , 21:37653(R) (UCLA-34-P-106-1)
interactions $n + p \to \gamma + n + p$, cross sections and asymmetries for, (T), 25:33615
interactions $n + p \to n + p + 2\pi^+ + 2\pi^- + m\pi^0$ at 2 to 10 GeV in propane bubble chamber, $\Delta^{++}(1236)$ and $\Delta^-(1236)$ production in $p\pi\pi$ effective mass distributions in, (E), 22:44319 (JINR-E1-3940)
interactions $n + p \to n + p + \gamma$ at 14 MeV, cross section for, (E), 24:52396
interactions $n + p \to n + p + \gamma$ at 14 to 208 MeV, cross-section calculations for, (T), 24:24300
interactions $n + p \to n + p + \gamma$ at 208 MeV, bremsstrahlung cross sections for, (E), 24:35607
interactions $n + p \to n + p + \gamma$ at 208 MeV, cross sections for bremsstrahlung production in, 22:22306
interactions $n + p \to n + p + \gamma$, Bryan—Scott and Hamada—Johnston potentials for, (T), 25:1463
interactions $n + p \to n + p + \gamma$, cross sections and spectra from, (E), 25:43560
interactions $n + p \to n + p + \gamma$, off-shell properties of two-nucleon elastic potentials from, (T), 24:15601
interactions $n + p \to n + p + \pi^+ + \pi^- + m\pi^0$ at 2 to 10 GeV/c, method for separation from channels of $n + p \to n + p + \pi^+ + \pi^-$ interactions, (E), 25:30726 (JINR-P1-5665)
interactions $n + p \to n + p + \pi^+ + \pi^-$ at 2 to 10 GeV/c, method for separation from channels of $n + p \to n + p + \pi^+ + \pi^- + m\pi^0$ interactions, (E), 25:30726 (JINR-P1-5665)
interactions $n + p \to n + p$ at 15 MeV, efficiency of time-of-flight spectrometer for studying, 21:41224
interactions $n + p \to n + p$ at 15.7 MeV, angular distribution of, (E), 21:44272
interactions $n + p \to n + p$ at 152 MeV, differential cross sections and angular distributions for, (E), 25:27956
interactions $n + p \to n + p$ at 24.0 MeV, counter telescope study of angular distribution from, 23:36827 (COO-7-506)
interactions $n + p \to n + p$ at 3 to 7 GeV/c large angles, eikonal model with soft virtual neutral vector meson exchange for cross sections and angular distributions of, (T), 24:45542 (NYO-2262-TA-223)
interactions $n + p \to n + p$ at 4 to 30 GeV/c, differential cross sections for, (E), 25:25303
interactions $n + p \to n + p$ at 8 to 30 GeV/c, spark chamber study of cross sections for diffraction, (E), 22:39248 (CERN-68-7(Vol.1), pp 523-36)
interactions $n + p \to n + p$ at high energies, relativistic calculations for recoil proton spectrometers, 22:4470 (HASL-186)
interactions $n + p \to n + p$ below 750 MeV/c, review of meson resonance coupling to nucleons from on- and off-shell methods for, (T), 25:30903
interactions $n + p \to n + p$, Chou—Yang model in current—current interaction picture for, 24:52401
interactions $n + p \to n + p$, quasipotential model for elastic, (E/T), 24:3518
interactions $n + p \to p + n + 2\pi^+ + 2\pi^-$ at 2 to 10 GeV in propane bubble chamber, N_3^* production from, (E), 21:44265
interactions $n + p \to p + n$ at 1.75 to 7.20 GeV/c, spark chamber and scintillation counter study of differential cross sections for, (E), 25:22681
interactions $n + p \to p + n$ at 600 to 2000 MeV/c and 0 to 62°, wire-spark-chamber magnetic spectrometer study of differential cross sections for charge-exchange, (E), 24:3509 (PPAR-10)
interactions $n + p \to p + n$ at 600 to 2000 MeV/c, structure in differential cross sections for charge-exchange, (E), 23:44594
interactions $n + p \to p + n$ at 8 and 19 GeV/c, spark chamber study of differential cross sections and $\Delta(1236)$ and N(1518) production in, (E), 25:56415 (NP-18888)
interactions $n + p \to p + n$ at 8 to 24 GeV/c, differential cross section for, (E), 25:25431
interactions $n + p \to p + n$ at 8 to 28 GeV/c, spark chamber study of differential cross sections and angular distributions for charge-exchange, (E), 25:50059 (PURC-4159-35)
interactions $n + p \to p + n$ at high energies, charge exchange in, (E), 21:9701
interactions $n + p \to p + n$ at high energies, one-pion exchange in charge-exchange, 21:29533
interactions $n + p \to p + n$ at high energies, Regge conspiracy in, (T), 24:45544
interactions $n + p \to p + n$ in Regge pole model, π conspiracy in, 22:39369
interactions $n + p \to p + n$, Chou—Yang model in current—current interaction picture for, 24:52401
interactions $n + p \to p + n$, differential cross sections for, (T), 22:46430
interactions $n + p \to p + n$, model for Regge cut contributions to, 23:42778
interactions $n + p \to p + n$, Regge cut corrections to Regge pole exchange for forward spikes in, (T), 23:5638 (CALT-68-173)
interactions $n + p \to p + n$, Regge cut corrections to Regge pole exchange for forward spike in, 24:18230
interactions $n + p \to p + n$, Regge pole theory for, 21:29541
interactions $n + p \to p + n$, Regge-pole model for pion-exchange, 22:7494
interactions $n + p \to p + n$, strong absorptive Regge-cut model for, 25:7597
interactions $n + p \to p + n$, Veneziano model for, 24:35667
interactions $n + p \to p + p + \pi^-$, soft-pion theorem in current algebra for, 23:25657
interactions $n + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^- + n + (m\pi^0)$ at 2 to 10 GeV, $\Delta^{++}(1236)$ and $\Delta^-(1236)$ production in, (E), 23:25517
interactions $n + p \to \pi^0 + d$ at threshold to 720 MeV, test of isospin invariance in, (E), 25:30730
interactions $n + p \to \pi^0 + d$ from threshold to 720 MeV, test of isospin invariance in, (E/T), 25:59268
interactions $n + p \to \pi^0 + d$ up to 720 MeV, spark chamber study of isotopic spin invariance from differential cross sections for, (E), 25:47732
interactions $n + p$ and $p + p$ at 18.2 and 9.9 MeV, simultaneous phase-shift analysis of, (E/T), 22:11691
interactions $n + p$ and $p + p$ at 90° at high energies, ratio of cross sections for elastic, (T), 25:47895
interactions $n + p$ and $p + p$ near 25 MeV, phase-shift analysis of, 21:21615
interactions $n + p$ at 0.3 and 400 eV, total cross section for, (E), 21:37689
interactions $n + p$ at 0.3 to 400 eV, scattering and total cross section for, (E), 25:45892
interactions $n + p$ at 0.5 to 21 MeV, singlet effective range for, (E), 25:53511 (CONF-701002-, pp 51-6)

interactions n + p at 0.5 to 5.3 MeV, charge-state flipping contribution to cross sections for, (E/T), 22:52930 (KFKI-19/1968)
interactions n + p at 0.7 to 32 MeV, time-of-flight spectrometer search for oscillations in total cross sections for, (E), 23:51851
interactions n + p at 1 to 27 GeV/c, data compilation on, 22:52983
interactions n + p at 1 to 27.0 GeV/c, data compilation for, 22:44320 (NP-17578)
interactions n + p at 1 to 450 MeV, scattering matrix from phase shift analysis of, 23:44671
interactions n + p at 1 to 6 GeV, spark chamber study of cross sections for elastic, (E), 22:3263
interactions n + p at 1.0 to 5.5 GeV/c, polarization parameter in backward elastic, (E), 24:28481
interactions n + p at 1.0 to 7.9 MeV, monotonic variation of total cross sections for, (E), 23:49050
interactions n + p at 1.2 to 6.2 MeV, telescope counter search for fluctuating anisotropy in differential cross sections for forward, (E), 23:42552
interactions n + p at 1.5 to 15 MeV, structure in cross sections for, (E), 23:49051
interactions n + p at 10 GeV/c, total cross section for, (E), 22:53086
interactions n + p at 10 to 30 GeV/c, momentum dependence of total cross sections for, (E), 25:50060 (PURC-4159-36)
interactions n + p at 10 to 30 GeV/c, total cross sections for, 25:47734
interactions n + p at 10 to 30 GeV/c, total cross sections for, (E), 25:56421
interactions n + p at 11 to 30 MeV, polarization in, (E), 21:40432 (WASH-1074)
interactions n + p at 14 MeV, anisotropy of diffferential cross section for, (E), 24:45418
interactions n + p at 14 to 27 GeV/c, spark chamber study of total cross sections for, (E), 22:39248 (CERN-68-7(Vol.1), pp 523-36)
interactions n + p at 14 to 27 GeV/c, total cross sections for, (E), 22:17861
interactions n + p at 14.1 MeV, differential cross sections for, (E), 21:17039
interactions n + p at 14.1 MeV, differential cross sections for, (E), 24:20075
interactions n + p at 14.1 MeV, relativistically covariant models for bremsstrahlung cross sections for, (T), 25:56526
interactions n + p at 14.4 MeV with bremsstrahlung production, cross sections for, (E), 25:20257
interactions n + p at 14.4 MeV, elastic scattering cross section for, (E), 23:25806
interactions N + p at 14.5 and 23.1 MeV, use of polarized proton target for, 22:5501
interactions n + p at 16.2 MeV, polarization in scattering, (E), 25:53530
interactions n + p at 199 MeV, relative differential cross sections and polarization parameters for, (E), 22:22303
interactions n + p at 2 to 10 GeV in bubble chamber, methods of separation of reaction channels in three- and five-prong, (T), 22:39424 (JINR-P1-3881)
interactions n + p at 2 to 10 GeV in propane bubble chamber, methods for channel separation for, (T), 23:27825
interactions n + p at 2 to 10 GeV, effective cross sections for inelastic, (E), 23:30702
interactions n + p at 2 to 10 GeV, T = 5/2 nucleon isobar production from, (E), 21:17033 (JINR-P1-3146)
interactions n + p at 2 to 10 GeV/c, cross sections of inelastic, (E), 25:30726 (JINR-P1-5665)
interactions n + p at 2 to 20 GeV, methods of separation of reaction channels for, 21:18895 (JINR-P1-3145)
interactions n + p at 2 to 7 GeV/c, differential cross sections for elastic, (E), 24:37626
interactions n + p at 2.5 MeV, polarization in, (E), 21:21418
interactions n + p at 2.5 to 2.8 MeV, differential scattering cross sections for, (E), 23:28236
interactions n + p at 2.5 to 8.8 MeV, survey of angular distribution data for, (E), 23:49042 (KFKI-19/1969)
interactions n + p at 2.6 GeV/c, two-pion-exchange contributions to, 22:46467
interactions n + p at 2.85 GeV, absorption model of charge-exchange, 23:36960
interactions n + p at 20 to 200 MeV, deuteron quadrupole moment from potential, 24:18114 (ITF-69-92)
interactions n + p at 200 MeV, differential cross section and polarization for, (E), 22:53092
interactions n + p at 208 MeV, bremsstrahlung from, (E), 24:52412
interactions n + p at 21.6 MeV, polarization in scattering, (E), 25:53531
interactions n + p at 210 MeV, effect of neutron magnetic moment on, (T), 23:10968
interactions n + p at 210 to 330 MeV, phase shift analysis for, (E), 25:43538
interactions n + p at 22 MeV, polarization in scattering, (E), 24:40577 (SUNI-10)
interactions n + p at 23 to 630 MeV, amplitude for elastic, 21:33720
interactions n + p at 23.1 MeV using polarized beam and target, spin correlations of, 21:42259
interactions n + p at 24 MeV, angular distributions for scattering, 24:42873
interactions n + p at 24 MeV, phase-parameter analysis of differential cross sections for, (E/T), 24:3694
interactions n + p at 24.0 MeV, proton recoil angular distributions from elastic, (E), 24:37632
interactions n + p at 25 to 210 MeV, effect of Mott—Schwinger interaction on, (T), 24:24399
interactions n + p at 25 to 50 MeV, Kantor amplitudes for $^3P_0$ phase shift for, (E/T), 25:28046
interactions n + p at 275 to 1500 MeV, use of on-line computer in wire spark chamber study of elastic, 22:47372 (PPAR-3)
interactions n + p at 3 to 10 GeV, differential cross sections for elastic, (E), 23:10747
interactions n + p at 3 to 12 GeV/c, differential cross sections for charge-exchange, (E), 25:33541
interactions n + p at 3 to 6.8 GeV/c, cross sections for elastic, (E), 22:44325
interactions n + p at 32 MeV, polarization in scattering, 25:53532
interactions n + p at 4 to 16 GeV in forward direction, differential cross section for elastic, (E), 23:32613
interactions n + p at 4.0 and 5.7 GeV/c, total cross sections for, (E), 24:15473
interactions n + p at 4.0 and 5.7 GeV/c, total cross sections for, (E), 25:7545
intéractions n + p at 40 MeV, differential cross sections for elastic, (E), 21:19173
interactions n + p at 400 and 630 MeV, design of experiments for, 21:25231
interactions n + p at 5 to 30 GeV/c, differential cross sections for, (E), 25:40874
interactions n + p at 50 to 1000 MeV, one-pion exchange amplitude interference in charge-exchange, (T), 24:52120
interactions n + p at 50 to 635 MeV, T-invariance violation in, 25:33773
interactions n + p at 510 and 600 MeV, spark chamber spectrometer study of Wolfenstein triple scattering parameters for, (E), 25:36397
interactions n + p at 510 and 600 MeV, Wolfenstein triple scattering parameters for, (E), 24:30441 (UCRL-19705)
interactions n + p at 525 and 600 MeV at 65 to 180°, transfer depolarization parameter for, (E), 25:19904
interactions n + p at 630 MeV, spin correlation tensor for polarized, (T), 22:11692
interactions n + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions n + p at 7 to 750 MeV, phase-shift analysis of, 22:50417
interactions n + p at 700 to 2900 MeV/c, direct measurement of total cross sections for, (E), 25:9648
interactions n + p at 700 to 2900 MeV/c, production of $D^*(2180)$ and total cross sections for, (E), 24:49315 (PURC-4159-7)
interactions n + p at 735 MeV, phase shift analysis of elastic, 24:3702
interactions n + p at 8 GeV/c, polarization analyzer or polarized beam source from charge-exchange, 21:42389
interactions n + p at 8 to 21 GeV/c, total cross sections for, (E), 24:30446
interactions n + p at 8 to 30 GeV/c, differential cross sections for elastic, (E), 24:10667
interactions n + p at 9.7 to 18.2 MeV, phase-shift analysis for, 21:37848
interactions n + p at 991 MeV, angular distributions and cross sections for elastic and quasi-elastic, (E), 21:27302
interactions n + p at high energies, 22:3371
interactions n + p at high energies, moving two-Reggeon cut contribution to amplitude of charge-exchange, (T), 24:20179
interactions n + p at high energies, polarization experiments for test of long-range meson (π) exchange in charge-exchange, (E), 24:12937
interactions n + p at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions n + p at high energies, total cross sections for, (E), 22:22299
interactions n + p at high momentum transfer, analysis of elastic, 21:27383
interactions n + p at low energies in singlet and triplet states, spherically symmetric potentials for, (T), 25:22854
interactions n + p at low energies, scattering amplitudes for, (E), 25:59696
interactions N + p at low energies, use of polarized proton target for studying, 21:21137
interactions n + p at low energy, deuteron constraints on scattering parameters for, (T), 24:24394
interactions n + p at low energy, s-d coupling parameter in, 21:23403 (LA-DC-8639)
interactions n + p below 10 GeV in propane bubble chamber, resonances in dibaryon states with S = -1 and S = 0 from, 21:33603
interactions n + p below 10 MeV, analysis of angular distribution data for, 23:21052
interactions n + p below 11 GeV/c in propane bubble chamber, effective mass spectrum for Λp system from, 21:18897 (JINR-P1-3169)
interactions n + p below 30 MeV, P phase for correction at 180° for, (T), 25:53223 (CONF-701002-, pp 27-41)
interactions n + p below 350 MeV, phase shift analysis of, (T), 25:14734
interactions n + p below 350 MeV, potential consistent with boson exchange theory of nuclear forces for, 22:44451
interactions n + p below 400 MeV, one-meson-exchange contributions to, (T), 24:40412
interactions n + p below 8 MeV, fluctuations in energy dependence of cross sections for, (E), 23:21053
interactions n + p from deuterium (n,p2n) reactions at 14.1 MeV, singlet scattering lengths for, (E/T), 25:12367
interactions n + p from p + d interactions at 197 MeV, triplet-scattering parameters for, (E), 21:37693
interactions n + p in d + p $\to$ p + p + n interactions at 52 MeV, time-of-flight study of parameters for final-state, (E), 24:3508 (KFK-1012)
interactions n + p in deuterium (p,pn) reactions, final-state, (E), 22:11903
interactions n + p in heavy nuclei, (T), 21:4335
interactions n + p in heavy nuclei, (T), 21:4334
interactions n + p in hydrogen (d,2p) reactions at 51 MeV, final-state, (E), 21:33877
interactions n + p in light nuclei, analysis using Green's function, 23:47082
interactions n + p in Λ-H^3 hyperfragment, effect of Λ + p parameters from tensor, (T), 22:22412
interactions n + p in neutron reactions (n,nnp) with deuterium at 14 MeV, spectrometer study of cross sections and spectra for final-state, (E), 25:43533 (CEA-R-4150)
interactions n + p in nuclear shell-model configurations, (T), 23:52120 (UCRL-18667, pp 65-132)
interactions n + p in nuclei, behavior near critical point, (T), 23:21380 (ZFK-130, pp 184-5)
interactions n + p in nuclei, generalized BCS method for, (T), 23:21379 (ZFK-130, pp 182-3)
interactions n + p in nuclei, residual surface delta, (T), 23:47044 (SGAE-PH-77/1968)
interactions n + p in odd—A nuclei, (T), 21:31842
interactions n + p in organic single crystals, effective cross sections for, (E), 22:9921 (JUL-Conf-1)
interactions n + p in triplet-S state, nonrelativistic sum rules for calculating deuteron binding energy from, 21:40235 (LPTHE-TH-209)
interactions n + p in tritium (He-3,np) reactions, final-state, (E), 23:1784
interactions n + p to 350 MeV, phenomenological phase-parameter fits to, 22:15817
interactions n + p up to 200 MeV, variational calculation of S-wave phase shifts and differential cross sections for, (T), 23:46742
interactions n + p up to 750 MeV, phase-shift analysis of, (E/T), 23:19341 (UCRL-71145)
interactions n + p, amplitude of weak, (E), 21:38346
interactions n + p, broken exchange-degenerate Regge-pole model for charge-exchange, 25:7652
interactions n + p, calculation of scattering lengths using finite square-well potential, (T), 23:15525
interactions n + p, charge-state oscillations in cross sections for, (E/T), 23:39744 (KFKI-10/1969)
interactions n + p, coherent inelastic contributions to absorptive corrections for charge-exchange, 24:37813
interactions n + p, comparison of R-matrix and S-matrix theories for threshold resonances in scattering, (T), 25:1713
interactions n + p, conspiracy among Regge trajectories for forward charge exchange, 21:37776(R) (UCR-34-P-107-49)
interactions n + p, conspiracy among Regge trajectories for forward charge exchange, 21:37776(R) (UCR-34-P-107-49)
interactions n + p, contribution of moving cuts to amplitude for forward charge-exchange, 23:34614
interactions n + p, design of specifying and discriminating experiments for, 21:23307 (JINR-E1-3066)
interactions n + p, deuteron form factor in S-matrix formalism for, 23:25555
interactions n + p, effective range determination from neutron resonance studies below 5 MeV, (E), 23:1796
interactions n + p, eikonal model for large-angle elastic, 25:14737
interactions n + p, electromagnetic and weak, (T), 21:23314 (BNL-994, pp 70-102)
interactions n + p, generalization of determinant method to continuous channels for S-matrix for, 22:20348
interactions N + p, Gribov—Morrison parity rule and helicity conservation in diffractive π production in, 25:22833
interactions n + p, kinematic constraints on Regge-pole residues for charge-exchange, 22:11683
interactions n + p, modification of maximum-likelihood method for handling data from spark chamber study of polarization in, (E), 25:22848
interactions n + p, multiple quark scattering analysis for energy and momentum transfer square dependencies of differential cross sections for charge exchange, (E), 25:43615
interactions n + p, multiple-quark-scattering analysis of charge-exchange, 25:47833
interactions n + p, parity violating effects in, 25:17545
interactions n + p, program for phase shift calculations for real and realistic potentials for, 21:17134 (AECD/TP-15)
interactions n + p, π instability effects on, (T), 21:37851
interactions n + p, review of pion exchange in charge-exchange, 22:24684
interactions n + p, scattering length for, (E), 23:15346(R) (ORO-1316-70)
interactions n + p, scattering length for, (E), 23:39935
interactions n + p, scattering parameters from helium-3 (t,α) final-state, (E), 23:32893(R) (ORNL-4404)
interactions n + p, soft core potential model for fitting $^1S_0$ phase shift data for scattering, 23:49467
interactions n + p, soft-core potential model for, (T), 24:13034
interactions N + p, spin correlation tensor for polarized, 21:17139
interactions n + p, SU(3) relations between cross sections for Σ^+ + p interactions and, 21:35318
interactions n + p, systematics of residual, 25:34182
interactions n + p, total and differential cross sections for elastic, (E), 23:10817
interactions n + p, uncertainties in theory of liquid mirror determination of coherent scattering length for, 23:42698
interactions n + p, use of sum rules for calculating deuteron binding energy from triplet-S phase-shift in, 22:11689
interactions $\tau + p \to 3^{+-} + N^{*++}$, comparison of Salin isobar model and Adler dispersion relation model for, 25:1479
interactions $\tau + p \to e +$ hadrons, structure functions and cross sections for deep-inelastic, (T), 24:37727
interactions $\tau + p \to e^- + \pi^+ + p$, generalized Ward-Takahashi identities and current algebra for, 22:13681

interactions $\tau + p \rightarrow l^- + \pi^+ + p$, current algebra for slow meson (π) production from, 21:25267 (JINR-P2-3197)
interactions $\tau + p \rightarrow$ leptons + hadrons in parton model, polarization effects in deep inelastic, 25:53099
interactions $\tau + p \rightarrow \mu + W +$ hadron, cross section for, (T), 24:40339
interactions $\tau + p \rightarrow \mu + W + p$, cross sections for, (T), 24:52044
interactions $\tau + p \rightarrow \mu^- +$ hadrons at high energies, scaling laws in Veneziano model for, (T), 25:12166
interactions $\tau + p \rightarrow \mu^- +$ hadrons, diffraction model for weak, 24:33003
interactions $\tau + p \rightarrow \mu^- + p + \pi^+ + \pi^0$, Pomeranchuk dominance in, (T), 24:32994
interactions $\tau + p \rightarrow \mu^- + p + \pi^+$ at high energies, Regge model for, 24:28536
interactions $\tau + p \rightarrow \mu^- + p + \pi^+$ near $\Delta(1236)$ resonance, cross sections for, (T), 25:53126
interactions $\tau + p \rightarrow \mu^- + p + \pi^+$, PCAC hypothesis and Born approximation calculation of cross sections for, 22:11631
interactions $\tau + p \rightarrow \mu^- + p +$ vector meson, Pomeranchuk dominance in, (T), 24:32994
interactions $\tau + p \rightarrow \mu^- + p + W^+$, model for W^+ production in, 25:14643
interactions $\tau + p \rightarrow \mu^- + p$, dual resonance model for μ^-p resonance production in, (T), 25:40942
interactions $\tau + p \rightarrow \mu^- + \pi^+ + p$ at 1 to 4 GeV in propane bubble chamber, cross sections for, (E), 23:42537
interactions $\tau + p \rightarrow \mu^- + \pi^+ + p$ in propane bubble chamber, axial form factor for, (E), 23:25503 (CERN-69-7, pp 43-59)
interactions $\tau + p \rightarrow \mu^- + \pi^+ + p$ near $\Delta(1236)$, model based on CVC and PCAC hypotheses for, (T), 25:17457
interactions $\tau + p \rightarrow n + e^+$, heavy e production in, (T), 22:44384 (IFVE-STF-67-57-K)
interactions $\tau + p \rightarrow n + \mu^+$, electromagnetic corrections for, 23:5587
interactions $\tau + p \rightarrow n + \mu^+$, production and lower bound for mass of heavy μ in, (T), 22:44384 (IFVE-STF-67-57-K)
interactions $\tau + p \rightarrow n + \mu^+$, spin dependence of, (T), 22:11635
interactions $\tau + p \rightarrow \tau + p$ in propane bubble chamber, upper limit for cross sections for, (E), 24:26368
interactions $\tau + p \rightarrow \tau + \pi^+ + n$ in propane bubble chamber, upper limit for cross sections for, (E), 24:26368
interactions $\tau + p \rightarrow p + \tau$, cross sections for, (T), 24:49428
interactions $\tau + p \rightarrow p + \pi^+ + \mu^-$, hadronic helicity conservation in, (T), 25:53100 (NYO-4204-14)
interactions $\tau + p \rightarrow p + \pi^+ + \mu^-$, hadronic s-channel helicity conservation in, (T), 25:12165
interactions $\tau + p \rightarrow p + \pi^+ + \mu^-$, hadronic s-channel helicity conservation in, (T), 25:14636 (NYO-4204-10)
interactions $\tau + p \rightarrow$ rho $+ \mu + p$, measurement of rho beta decay coupling constant from, 23:5519
interactions $\tau + p \rightarrow W + \mu + p$ at 3 to 300 GeV, total cross sections for, (T), 24:40333
interactions $\tau + p$ at 10 GeV, self-coupling of weak lepton currents in μ^+—μ^- pair production from, (T), 25:43612
interactions $\tau + p$ at 5 to 100 GeV/c, performance of proposed 25-foot bubble chamber for study of, 24:50594 (TID-25473(Vol.2), pp 91-5)
interactions $\tau + p$ at high energies in proposed 25-foot bubble chamber, total cross sections and W production in, 24:51906 (TID-25473(Vol.2), pp 121-42)
interactions $\tau + p$ at high energies, parton model for, (T), 25:7604
interactions $\tau + p$ at high energies, U(12) symmetry for baryon production in, 21:17152
interactions $\tau + p$ at low momentum transfer, covariant quark model sum rules for N^* production in, 24:10704
interactions $\tau + p$ in hydrogen bubble chamber, design of apparatus for detecting inelastic, (E), 25:1388 (UH-511-80-70)
interactions $\tau + p$ in parton model, structure function for deep inelastic, 24:13001
interactions $\tau + p$ in proton electromagnetic field at 30 to 400 GeV, total cross sections for W production from, (T), 25:56473
interactions $\tau + p$, asymptotic equality with anti $\tau + p$ interactions for cross sections for multiple hardron production from, (T), 22:17910 (JINR-P2-3647)
interactions $\tau + p$, asymptotic sum rules at infinite momentum for inelastic, 23:25590
interactions $\tau + p$, Bjorken limit and Jin—Martin lower bound for, 25:3294 (NYO-4204-5)
interactions $\tau + p$, current algebra for, 22:20171
interactions $\tau + p$, lectures on parton model for structure functions, sum rules and asymptotic behavior for electron production in, (T), 25:47778
interactions $\tau + p$, possibility of W strong interactions in, (T), 22:22377
interactions $\tau + p$, quark model for PCAC for Δ^{++} production cross sections in, 24:3609
interactions $\tau + p$, review of double π production in, (E), 25:25293
interactions $\tau + p$, saturation of covariant sum rules in quark model for N^* production in, 22:15756
interactions $\tau + p$, use of ANL 12-ft hydrogen bubble chamber to study, 22:12607 (CERN-67-26(Vol.1), pp 87-94)
interactions τ/sub e/ $+ p \rightarrow n + e^+$, test of lepton quantum number from, 22:9558 (JINR-P2-3601)
interactions of cosmic, gamma spectrum from, (T), 24:23832
interactions of cosmic, with interplanetary plasma, (T), 23:44194(T) (N-69-22887)
interactions of cosmic, with neutrino background, (T), 24:28059
interactions of cosmic, with primary cosmic electrons, (T), 24:42540
interactions of flare-produced, with solar material, (T), 22:17341
interactions of interstellar and intergalactic, production of nucleon isobars and hyperons in, (T), 22:21979
interactions of meson (π)—proton bound state with photon at low energies, Hamiltonian for forward Compton, 23:39669
interactions of primary cosmic, in the atmosphere, (T), 22:5176
interactions of primary cosmic, with microwave background, (T), 25:13945
interactions of solar and cosmic, with interplanetary plasma, (T), 23:30368
interactions of solar, with geomagnetic equator, (E/T), 22:47854
interactions of solar-wind, with interstellar neutral hydrogen, (T), 23:14544
interactions of suprathermal cosmic, x-ray emission from, (T), 25:19451
interactions of suprathermal, with cosmic electrons, x-ray production in, (T), 23:44201
interactions of trapped, with magnetospheric pulsations, bounce-resonant, (T), 23:27479
interactions of, kinematic structure of helicity amplitudes for, 24:8744
interactions of, resonant charge exchange and momentum transfer cross sections for, 21:3683
interactions of, review of bubble chamber study of many-body, (E), 22:39269 (CERN-68-7(Vol.1), pp 345-79)
interactions of, Roy model for behavior of diffraction maximum in two- and four-pronged, 22:17956
interactions of, total absorption cross sections in photon reactions with nuclei below 18.3 GeV/c for rho dominance in strong, (E), 24:3503
interactions $\omega + p$ from $\gamma + p$ interactions, cross sections for elastic, (T), 22:46448
interactions $p + {}^4He \rightarrow$ baryon resonance $+ {}^4He$, baryon resonance—N scattering amplitude from, (T), 21:46549
interactions $p + {}^4He$ at 1 GeV, Glauber multiple scattering formalism for analysis of elastic, 23:32764
interactions $p + {}^4He$, spin dependence of elastic-scattering intensities, polarizations, and total cross sections of, 23:1649
interactions $p +$ anti $p \rightarrow \Lambda +$ anti Λ, spin correlations for, (T), 22:7637(R) (COO-1573-33)
interactions $p + \alpha \rightarrow p + \alpha + \gamma$ at 7.0 to 12.0 MeV, effects of rescattering on cross sections for, (E), 25:53528
interactions $p + \alpha$ and $p + p$ in helium-3 (He-3,2p) reactions, final-state, (E), 21:46668
interactions $p + \alpha$ at 1.67 GeV/c, test of Regge cuts in N + N scattering amplitude from spin dependence in, (T), 22:44456
interactions $p + d \rightarrow {}^3H + \pi^+ + \pi^0$, possible experiments for test of isospin invariance of, 22:48300
interactions $p + d \rightarrow {}^3He +$ eta^0(ω^0) at 3.5 to 3.8 GeV/c, missing-mass spectrometer study of differential cross sections for, (E), 24:26370
interactions $p + d \rightarrow {}^3He + \gamma$ at 20 and 30 MeV, angular distributions and cross sections for, (E), 24:30431
interactions $p + d \rightarrow {}^3He + \gamma$, model of intermediate nucleon isobar for, 25:56525
interactions $p + d \rightarrow {}^3He +$ missing mass at 3 GeV, I = 0 and 1 neutral boson spectra from, (E), 23:46605 (NYO-2171-286)
interactions $p + d \rightarrow {}^3He +$ missing mass, test of model for existence of exotic meson resonances from A_2 decay peak in, (E), 23:42661
interactions $p + d \rightarrow {}^3He +$ MM at 2 and 3 GeV, spectrometer study of differential cross sections versus missing mass and I = 0 and 1 meson production cross sections for, (E), 25:36398
interactions $p + d \rightarrow {}^3He +$ neutral mesons, existence of peaks in cross sections for, (T), 23:36955
interactions $p + d \rightarrow {}^3He + \omega^0$ at 3 GeV, performance of missing-mass spectrometer for, (E), 24:30439 (CONF-690521-, pp 326-36)
interactions $p + d \rightarrow {}^3He + \pi^0$ at 1.5 GeV, differential cross sections for, (E), 21:37674
interactions $p + d \rightarrow {}^3He + \pi^0$ at 3.5 to 3.8 GeV/c, missing-mass spectrometer study of differential cross sections for, (E), 24:26370
interactions $p + d \rightarrow {}^3He + \pi^0$, differential cross sections and vertex form factor for, (T), 23:7155
interactions $p + d \rightarrow {}^3He +$ sigma(310), model of intermediate nucleon isobar for, 25:56525
interactions $p + d \rightarrow {}^3He + x^0$ at 3 GeV, missing-mass spectrometer study of ω production in, (E), 23:34527 (NYO-2171-275)
interactions $p + d \rightarrow n + p + p + \gamma$ at 197 MeV, cross sections for bremsstrahlung production in, (E), 22:26557
interactions $p + d \rightarrow n + p + p + \gamma$ at 197 MeV, gamma detector and spark chamber study of differential cross sections for, (E), 22:15676
interactions $p + d \rightarrow n + p + p + \pi^+ + \pi^-$ at 1.825 and 2.11 GeV/c, cross sections for, (E), 24:12945
interactions $p + d \rightarrow p + d + \gamma$ at 156 MeV, cross sections for, (T), 23:51884
interactions $p + d \rightarrow p + d + \gamma$ at 197 MeV, cross sections for bremsstrahlung production in, (E), 22:26557
interactions $p + d \rightarrow p + d + \gamma$ at 197 MeV, gamma detector and spark chamber study of differential cross sections for, (E), 22:15676
interactions $p + d \rightarrow p + d + \pi^+ + \pi^-$ at 1.825 and 2.110 GeV/c in deuterium bubble chamber, baryon exchange and resonance production in, (E), 22:26562
interactions $p + d \rightarrow p + d$ above 1 GeV, model for wide-angle, (T), 25:3419
interactions $p + d \rightarrow p + d$ at 1 GeV with small momentum transfer, differential and total cross sections and ratio of real to imaginary parts of amplitude for, (E), 23:44595
interactions $p + d \rightarrow p + d$ at 1 GeV, effect of quadrupole deformation on, (T), 23:15154
interactions $p + d \rightarrow p + d$ at 1 GeV, Sviridov method for real part of amplitude of, (T), 22:29719
interactions $p + d \rightarrow p + d$ at 1 to 10 GeV at small angles, tables of differential cross sections for, (E), 22:17852 (JINR-P1-3641)
interactions $p + d \rightarrow p + d$ at 1 to 10 GeV, differential cross sections of small-angle, (T), 22:22411(T) (SLAC-Trans-80)
interactions $p + d \rightarrow p + d$ at 1 to 10 GeV, tables for differential cross sections of small-angle, 22:48221
interactions $p + d \rightarrow p + d$ at 1 to 3.5 GeV, cross section for backward, (E), 22:48222
interactions $p + d \rightarrow p + d$ at 100 to 1000 MeV, mechanisms for backward, (T), 25:25300
interactions $p + d \rightarrow p + d$ at 156 MeV using scintillation telescopes, cross sections and polarization for, 21:23309
interactions $p + d \rightarrow p + d$ at 4 GeV, real part of $p + n \rightarrow p + n$ amplitude from, (E), 25:17374
interactions $p + d \rightarrow p + d$ at 580 MeV at large angles, N(1688) exchange in, (E), 24:12938
interactions $p + d \rightarrow p + d$ at 600 MeV, differential cross sections and polarization in, (E), 24:51942
interactions $p + d \rightarrow p + d$ at 70 GeV, differential cross sections and slope parameters for, (E), 25:30725 (JINR-P1-5633)
interactions $p + d \rightarrow p + d$ at 70 GeV, emulsion study of differential cross sections and slope parameters for, (E), 25:59273
interactions $p + d \rightarrow p + d$ at 9.7 to 15.8 GeV/c, scintillation counter and wire spark chamber study of differential cross sections for, (E), 24:40251
interactions $p + d \rightarrow p + d$ at high energies, review of baryon resonance effects in backward, (T), 24:52699
interactions $p + d \rightarrow p + d$ below 160 MeV, N/D equations for differential cross sections and Argand plots for resonance production in, (T), 23:46746
interactions $p + d \rightarrow p + d$, Bakamjian—Thomas transformation theory for, 24:52130
interactions $p + d \rightarrow p + d$, Glauber correction in, (T), 25:14730 (JINR-P2-5444)
interactions $p + d \rightarrow p + n + p$ at high energies, contribution to $p + d$ interaction cross section from, (T), 22:9615 (INP-575/PL/PH)
interactions $p + d \rightarrow p + p + n + \pi^+ + \pi^-$ at 1.825 and 2.11 GeV/c, cross sections for, (E), 24:12945
interactions $p + d \rightarrow p + p + n$ at 100 MeV, proton spectra from, (E), 24:15775
interactions $p + d \rightarrow p + p + n$ at 14 MeV, analysis of spectra using pole diagram method, (E/T), 23:21239 (ZFK-130, pp 209-10)
interactions $p + d \rightarrow p + p + n$ at 14 MeV, p—p coincidence spectra for, (E), 23:25808
interactions $p + d \rightarrow p + p + n$ at 52 MeV, $p + n$ and $p + p$ scattering lengths from coincidence methods for systematic study of, (E), 24:37621 (KFK-1172)
interactions $p + d \rightarrow p + p + n$ at 52.0 MeV, angular distributions for, (E), 24:37636
interactions $p + d \rightarrow p + p + n$ at 52.3 MeV, proton-proton final-state interaction in, (E), 24:13270
interactions $p + d \rightarrow p + p + n$ at 6.5 to 13 MeV, (E), 23:1882 (WASH-1093)
interactions $p + d \rightarrow p + p + n$ at 89 MeV, total cross section for $p + n$ interactions from, (E), 23:18802
interactions $p + d \rightarrow p + p + p + \pi^- + \pi^0$ at 1.825 and 2.11 GeV/c, cross sections for, (E), 24:12945
interactions $p + d \rightarrow p + p + p + \pi^-$ at 1.825 and 2.11 GeV/c, cross sections for, (E), 24:12945
interactions $p + d \rightarrow p + p + p + \pi^-$ at 7 GeV/c, $N^*(1470)$ production in, (E), 23:8728
interactions $p + d \rightarrow p + x$, amplitude behavior near singularities of Feynman graphs of, 21:40243
interactions $p + d \rightarrow t + \pi^+ + \pi^0$, strong interaction isospin invariance check from, (T), 22:22381 (JINR-P2-3691)
interactions $p + d \rightarrow t + \pi^+$ at 340 to 670 MeV, cross sections and form factors for, (E/T), 25:47739
interactions $p + d$ at 0.5 and 1 GeV, iterative solution to Faddeev equations for, 23:49176
interactions $p + d$ at 0.5 to 70 GeV/c, compilation of cross sections, angular distributions, and polarizations for, (E), 25:19899 (UCRL-20000-NN)
interactions $p + d$ at 0.75 to 2.0 GeV, large angle backward elastic, (E), 21:44264
interactions $p + d$ at 1 GeV in emulsion, interaction radius for small-angle elastic, 21:21136
interactions $p + d$ at 1 GeV, double-scattering correction to Glauber model for, 24:3693
interactions $p + d$ at 1 GeV, magnetic spectrometer study of cross sections for elastic and inelastic, 21:37834
interactions $p + d$ at 1 GeV, N(1688) resonance in nucleon-transfer mechanism for backward elastic, (T), 23:32771
interactions $p + d$ at 1 GeV, use of triangle graph for calculation of differential cross section for large-angle elastic, (T), 24:10779
interactions $p + d$ at 1 to 1.5 GeV, double scattering model for backward elastic, (E/T), 21:44387
interactions $p + d$ at 1 to 27 GeV/c, data compilation on, 22:52983
interactions $p + d$ at 1 to 3.5 GeV, differential cross sections for elastic, (E), 22:7435 (ITEF-477)
interactions $p + d$ at 1 to 3.5 GeV, differential cross sections for large-angle elastic, (E), 21:29446
interactions $p + d$ at 1.0 to 1.5 GeV, high-momentum transfers in elastic, (E/T), 21:46481
interactions $p + d$ at 1.0 to 2.0 GeV, cross sections for elastic, (E), 21:13675 (AD-639614)

interactions p + d at 1.0 to 2.0 GeV, differential cross sections for elastic, (E), 22:11583
interactions p + d at 1.21 GeV/c, asymmetry in differential cross sections for polarized, (E), 25:33548
interactions p + d at 1.29 to 1.69 GeV/c at small angles, ratio of real to imaginary part of spin independent forward amplitude of, (E), 24:51943
interactions p + d at 1.29, 1.39, and 1.54 GeV/c, real-to-imaginary ratio of forward scattering amplitude in, (E), 23:1590
interactions p + d at 1.54 and 1.69 GeV/c, sonic spark chamber study of spin-independent forward scattering amplitude in, 21:42260
interactions p + d at 1.67 and 18 GeV/c, test of Regge cuts in N + N scattering amplitude from spin dependence in, (T), 22:44456
interactions p + d at 1.69 GeV/c, differential cross sections for small-angle, (E), 23:21051
interactions p + d at 10 and 16 MeV, n—p final-state interactions in, (E), 24:15783
interactions p + d at 12.8 GeV/c, Glauber multiple scattering model for elastic, (E/T), 25:59269
interactions p + d at 135 MeV, polarization and triple scattering parameters for, (E), 21:29866
interactions p + d at 15 to 60 GeV/c, total cross sections for, (E), 25:53014
interactions p + d at 19.2 GeV/c and 0.06 to 1.6 $(GeV/c)^2$ momentum transfer, differential cross sections for p + p and p + n elastic scattering and cross sections for single and double quasi-elastic, (E), 24:10670
interactions p + d at 197 MeV, n—p triplet scattering parameter from polarized, (E), 21:37693
interactions p + d at 2 BeV, double-scattering effect in elastic, (E/T), 21:873
interactions p + d at 2 GeV, effects of double charge-exchange process on cross sections for, 21:29570
interactions p + d at 2.784 GeV/c, momentum spectra in, (E), 25:9634 (COO-1764-115)
interactions p + d at 200 MeV, test of impulse approximation in inelastic, (E/T), 23:18803
interactions p + d at 200 MeV, testing impulse approximation by, (E/T), 23:10931
interactions p + d at 3 GeV/c, total cross sections for, (E), 24:37629
interactions p + d at 3 GeV/c, total cross sections for, (E), 24:37635
interactions p + d at 35 and 46 MeV, elastic scattering cross section for, (E), 23:25807
interactions p + d at 4 to 12 MeV, deuteron polarization in elastic, (E), 21:15479
interactions p + d at 4.0 BeV, differential scattering cross sections for, (E), 21:883
interactions p + d at 46 MeV, elastic and inelastic, (E), 22:20442
interactions p + d at 8 GeV, real part of p + n amplitude from differential cross sections for elastic, (E), 22:1381
interactions p + d at 800 MeV, calculation of polarization and cross sections for scattering, 25:53538
interactions p + d at 9 MeV, inelastic, (T), 21:42551 (ITEF-501)
interactions p + d at GeV energies, multiple-scattering formalism for elastic, (T), 22:50414
interactions p + d at high energies as probe of nuclear correlations at small distances, neutral boson production, and SU(3) systematics, (E), 23:49044 (PPAR-23)
interactions p + d at high energies, backward peak in elastic, (T), 23:42695
interactions p + d at high energies, coherent resonance production from, (T), 22:3463
interactions p + d at high energies, compilation of cross sections for, (E), 25:17369 (CERN-HERA-70-2)
interactions p + d at high energies, contribution of $p + d \rightarrow p + n + p$ interactions to cross section for, (T), 22:9615 (INP-575/PL/PH)
interactions p + d at high energies, D-wave effects in, (T), 23:3760
interactions p + d at high energies, deuteron D-wave component effects in, 24:52136
interactions p + d at high energies, deuteron magnetic dipole moment with N^* resonances in ground state from, (T), 23:30737
interactions p + d at high energies, Glauber multiple-scattering theory for missing-mass spectrum for, (E/T), 24:18231
interactions p + d at high energies, model for elastic, (E/T), 24:40411
interactions p + d at high energies, production of aligned deuterons in elastic, (T), 23:27830
interactions p + d at high energy, elastic and inelastic, (T), 22:29898
interactions p + d at low energies, Coulomb effects and charge symmetry breaking in, 25:50156
interactions p + d at medium energies, survey of research on polarization in, 23:46908 (COO-7-515)
interactions p + d at very high energies, composite particle model for, 23:44669 (INP-678)
interactions p + d, baryon resonance effects in, (T), 23:8924 (TID-24667, pp 399-416)
interactions p + d, bremsstrahlung production cross section for, (E), 21:40432 (WASH-1074)
interactions p + d, continuum to bound state transitions in, (T), 23:25794
interactions p + d, double-scattering integrals for inelastic, 21:9813
interactions p + d, effect of D-state in, 23:7153 (COO-1764-19)
interactions p + d, multiple scattering formalism for momentum-loss spectra in, (T), 25:41032
interactions p + d, spin dependence of elastic-scattering intensities, polarizations, and total cross sections of, 23:1649
interactions p + d, validity of effective range expansion for scattering, (T), 24:43116
interactions $p + e^- + p \rightarrow d + \tau$/sub e/ in stellar interiors, rates for, (T), 23:14475
interactions $p + K \rightarrow p + K^*$, contribution of Mandelstam branch cuts from Reggeon exchange to, (T), 22:3455
interactions $p + N \rightarrow 2N + 2\pi$ at 24 GeV/c in emulsions, N(1240) production in, (E), 24:40252
interactions $p + n \rightarrow d + \gamma$ at threshold, hard-pion technique for, 24:40417
interactions $p + n \rightarrow d + \gamma$, total cross section for, (T), 21:42396
interactions $p + n \rightarrow \Delta^- + \Delta^{++}$ at 3.7 and 7.0 GeV/c, nonexotic kinematic interpretation of exotic forward Δ^- production in, (T), 24:51949
interactions $p + n \rightarrow \Delta^- + p + \pi^+$ at 3.7 and 7.0 GeV/c, nonexotic kinematic interpretation of exotic forward Δ^- production in, (T), 24:51949
interactions $p + n \rightarrow \Delta^-(1236) + \Delta^{++}(1236)$ at 6.98 GeV/c in deuterium bubble chamber, exotic and double meson exchange in, (E), 24:37630
interactions $p + n \rightarrow \Delta^+(1246) + \Lambda$, $\Delta T = 1/2$ rule for, 21:33703
interactions $p + n \rightarrow \Delta^{++}(1236) + \Delta^-(1236)$ at 6.98 GeV/c cross sections and decay correlations for, (E), 25:3265
interactions $p + n \rightarrow \mu^+ + \mu^- +$ hadrons, cross sections for, 24:5319
interactions $p + n \rightarrow n + p$ at 2 to 8 GeV/c, Born approximation for, (E/T), 24:40419
interactions $p + n \rightarrow n + p$ at 8 GeV/c, Regge-pole model with diffractive correction for, 24:18224
interactions $p + n \rightarrow n + p$ at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions $p + n \rightarrow n + p$ at high energies, Regge pole models with branching in j-plane for differential cross sections of, 22:39377
interactions $p + n \rightarrow n + p$ at high energies, Veneziano model for, (T), 25:1569
interactions $p + n \rightarrow n + p$, complex momenta method with branching in j-plane for differential cross sections of, (T), 25:20017(T) (CERN-Trans-70-15)
interactions $p + n \rightarrow n + p$, conspiracy of singularities in complex angular momentum plane for, 22:11688
interactions $p + n \rightarrow n + p$, differential cross sections for, (T), 23:5615
interactions $p + n \rightarrow n + p$, invariant functions in Regge pole model for structure of, 24:3692
interactions $p + n \rightarrow n + p$, π conspiracy in, 23:8762 (INP-622(Vol.1), pp 28-38)
interactions $p + n \rightarrow n + p$, Regge pole model for invariant functions for, 23:51952
interactions $p + n \rightarrow n + p$, Regge-pole analysis of, 22:5603
interactions $p + \bar{n} \rightarrow n + p$, singular Regge pole model for, (T), 25:19995
interactions $p + n \rightarrow p + n + 2\pi^+ + 2\pi^- + \pi^0$ at 2 to 10 GeV in propane bubble chamber, N_1^* production from, (E), 21:44265
interactions $p + n \rightarrow p + n + \gamma$ at 197 MeV in deuterium, bremsstrahlung from, (E), 21:27303
interactions $p + n \rightarrow p + n + \gamma$ at low energies, cross sections for, (T), 24:40303
interactions $p + n \rightarrow p + n + \gamma$, calculation of cross sections for, 23:25549
interactions $p + n \rightarrow p + n + \gamma$, Kroll—Ruderman theorem for ratio of total cross sections relative to $p + p \rightarrow p + p + \gamma$ interactions for, 23:32656
interactions $p + n \rightarrow p + n + \gamma$, potential model calculations of cross sections for, 23:8779
interactions $p + n \rightarrow p + n + \gamma$, relativistic and gauge-invariant calculations of cross sections for, 23:42599
interactions $p + n \rightarrow p + n + \pi^+ + \pi^-$ at 3.7 GeV/c, cross sections for $\Delta(1236)$ production in, (E), 25:1404
interactions $p + n \rightarrow p + n + \pi^+ + \pi^-$ at 3.7 GeV/c, exchange mechanism, (E), 22:35293(R) (ORNL-4230)
interactions $p + n \rightarrow p + n + \pi^+ + \pi^-$ at 3.7 GeV/c, exchange mechanism for Δ^{++} and Δ^- production in, (E) , 22:24542
interactions $p + n \rightarrow p + n + \pi^+ + \pi^-$ at 6.98 GeV/c in deuterium bubble chamber, exotic and double meson exchange for $\Delta^-(1236)$ and $\Delta^{++}(1236)$ production in, (E), 24:37630
interactions $p + n \rightarrow p + n + \pi^+ + \pi^-$, I = 1 meson exchange diagram for rho^0 production in, 25:14741
interactions $p + N \rightarrow p + N$ above 10^{12} ev in emulsions, cross section for, (E), 23:23346
interactions $p + n \rightarrow p + n$ at 0.050 to 200 GeV, real part of amplitude of, (T), 22:39403 (JINR-P2-3850)
interactions $p + n \rightarrow p + n$ at 3 to 10 GeV in propane bubble chamber, differential and total cross sections for, (E), 22:17855
interactions $p + n \rightarrow p + n$ at high energies and fixed momentum transfer, asymptotic expansion of amplitudes for polarization in, (E), 22:37143
interactions $p + n \rightarrow p + n$ at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions $p + n \rightarrow p + n$ at high energies, predictions of quark model for large-angle, 23:21096
interactions $p + n \rightarrow p + n$ in deuterium target, cross section ratio to $p + p \rightarrow p + p$ interactions for, (E), 25:25304
interactions $p + n \rightarrow p + n$ in $p + d \rightarrow p + d$ interactions at 4 GeV, real part of amplitude of, (E), 25:17374
interactions $p + n \rightarrow p + n$ interactions at 612 MeV, spark chamber study of depolarization in, (E), 25:36390 (JINR-P1-5743)
interactions $p + n \rightarrow p + n$, comparison of models with conspiracy and cuts for differential cross sections of, (T), 24:13118 (ITF-69-69)
interactions $p + n \rightarrow p + n$, final-state interactions in $\gamma + d \rightarrow p + n$ interactions for, (T), 24:52118
interactions $p + n \rightarrow p + n$, use of Lorentz group in Regge pole analysis of, (T), 22:50321 (UCRL-18377)
interactions $p + n \rightarrow p + p + \pi^- + \pi^0$ at 3.7 GeV/c, cross section for $\Delta(1236)$ production in, (E), 25:1404
interactions $p + n \rightarrow p + p + \pi^+$ at 3.7 GeV/c, cross sections for $\Delta(1236)$ production in, (E), 25:1404
interactions $p + n \rightarrow p + p + \pi^-$ at 7 GeV/c, Pomeron-exchange contribution to, 25:47893
interactions $p + n \rightarrow p + p + \pi^-$ near threshold, cross sections for, (T), 23:44675
interactions $p + n \rightarrow p + \pi^+ + \pi^- + n$ in neon—hydrogen bubble chamber, coherent production of $p\pi^+\pi^-(1470)$ enhancement in, (E), 22:41729 (BNL-12674)
interactions p + n above 1 GeV, multiplicity distributions of charged secondary particles in, (E), 22:52931 (KFKI-20/1968)
interactions p + n above 2 GeV/c, effect of charge-exchange mechanism on cross sections for, 21:29570
interactions p + n and p + p at 12.4 GeV/c using liquid deuterium target, cross section ratio for elastic, (E), 25:3266
interactions p + n and p + p at 3 to 7 GeV/c, comparison of differential cross sections for elastic, 22:44454
interactions p + n and p + p in helium-4 (p,He-3) and (p,t) reactions at 156 MeV, final-state, (E), 21:44555
interactions p + n and protons at high energies, quark-droplet model for, (E/T), 21:924
interactions p + n at 0 to 750 MeV, listings of data for, 22:37161 (UCRL-50426)
interactions p + N at 0.5 to 1.2 GeV, polarization parameter from, (E), 21:37684
interactions p + n at 0.5 to 70 GeV/c, compilation of cross sections, angular distributions, and polarizations for, (T), 25:19899 (UCRL-20000-NN)
interactions p + n at 1 GeV, ratio of real to imaginary parts of amplitude for, (E), 23:44595
interactions p + n at 1 to 10 GeV at small angles, tables of differential cross sections for real part of amplitude for, (E), 22:17852 (JINR-P1-3641)
interactions p + n at 1 to 10 GeV, Glauber deuteron model for real part of amplitude of, (T), 22:22411(T) (SLAC-Trans-80)
interactions p + n at 1 to 10 GeV, real part of amplitude of, (E/T), 22:48221
interactions p + N at 1.0 GeV, use of wire spark chamber as magnetic spectrometer for studying, 21:39260
interactions p + N at 10 to 1000 GeV in carbon nuclei, calorimeter study of effective cross sections for inelastic, 21:29445
interactions p + N at 10 to 35 GeV/c in beryllium, empirical formulas for K^-, K^+, and anti p production from, 21:31605 (BNL-11479)
interactions p + n at 100 keV to 1 GeV, bibliography on, (E/T), 22:52937 (LA-4002)
interactions p + N at 14 GeV in nuclear emulsions, distribution of secondary protons from, (E), 21:5355
interactions p + n at 147 MeV, effective cross sections for, (E), 21:4058 (JINR-E1-2953)
interactions p + n at 147 MeV, phase analysis of, 21:40242
interactions p + n at 15 to 60 GeV/c, total cross sections for, (E), 25:53014
interactions p + N at 17 and 24 GeV/c in emulsions, velocity-space images for analysis of, (E), 22:22313
interactions p + n at 19.8 GeV/c in emulsions, (E), 22:48330
interactions p + n at 19.8 GeV/c in emulsions, N^* production in, (E), 22:39259
interactions p + n at 195 to 215 MeV, review of bremsstrahlung and elastic, 21:37681
interactions p + n at 2 to 10 GeV, neutron spectra and cross sections of inelastic, (E), 22:46323 (JINR-P1-3909)
interactions p + n at 2 to 10 GeV, neutron spectra and cross sections of inelastic, (E), 23:44590(T) (KFK-tr-287)
interactions p + n at 2.0 MeV, phase shift analysis for, 21:35316 (JINR-E2-3345)
interactions p + N at 2.88 and 3.95 GeV in copper, counter study of distribution of Fermi momenta of nucleons in copper from anti p production from, 21:33606
interactions p + N at 2.9 GeV in beryllium and platinum, counter study of particle production from, 21:33606
interactions p + N at 20 GeV in emulsions, analysis of asymmetric separation of charged secondary particles from, (E), 22:32052
interactions p + N at 20 GeV, angular distribution of secondary charged particles in inelastic, (E), 23:32620
interactions p + N at 20.8 GeV, in emulsions, correlations between longitudinal and transverse components of momenta of secondary particles in, (E), 25:33546
interactions p + n at 20.8 GeV/c in emulsions, angular distributions and asymmetry coefficients for, (E), 25:33549
interactions p + N at 210 MeV, upper limits for two parity-violating parameters from asymmetries in, (E), 25:12094
interactions p + n at 215 MeV, multi-element scintillation telescope study of asymmetries from double and triple scattering experiment for, (E), 22:20134
interactions p + N at 22.6 and 24 GeV/c in nuclear emulsions, multiplicity and angular distributions in meson production, (E), 23:5537
interactions p + N at 22.6 and 24 GeV/c, angular distribution of multiple particle production in, (E), 23:39606
interactions p + N at 22.8 GeV in emulsions, (E), 21:3981
interactions p + N at 22.8 GeV/c, contribution of baryon excited states to multiple particle production in, (T), 21:42391

interactions p + n at 22.8 GeV/c, distribution of shower particles from, (E), 25:36392
interactions p + N at 23 GeV/c in emulsion nuclei, hyperfragment production from, (E), 21:33602
interactions p + N at 23 GeV/c in nuclear emulsions, primary energy estimation for, (E/T), 23:10951
interactions p + n at 24 GeV in emulsions and hydrogen bubble chamber, energy spectra and transverse-momentum distributions for π and p and baryon resonance production in, (E), 25:5276
interactions p + N at 24 GeV in emulsions, p + N elastic cross section in TeV region from, (E/T), 21:44266
interactions p + n at 25 and 140 MeV, phase-shift analysis of elastic, 21:37691
interactions p + n at 25 MeV, review of polarization and spin correlation measurements from, (E), 21:37688
interactions p + N at 27 GeV in emulsions, energy of charged baryons from, (E), 21:3983
interactions p + n at 28 GeV, production and decay of W boson in, (E), 25:38654
interactions p + N at 28 GeV, upper limit for W production from, (E), 23:49045
interactions p + N at 28 GeV, upper limit on production cross sections for W boson in, 25:47733
interactions p + N at 28 GeV/c in nuclear emulsions, effective target mass in inelastic, (E), 23:32614
interactions p + N at 30 GeV, intermediate boson production in, (E), 21:867 (NEVIS-153)
interactions p + n at 310 to 700 MeV, polarization parameter for, (E), 22:5503
interactions p + n at 400 MeV, unambiguous phase shift analysis and phase shift energy dependence for, 22:20271 (JINR-E1-3707)
interactions p + n at 425 MeV, triple scattering parameters for, (E), 23:5533
interactions p + N at 600 MeV in nuclei, isobar model for π production and nuclear shape from, (T), 22:24665
interactions p + n at 600 MeV, scintillation counter study of differential cross sections for mesons (π^-) and (π^+) production in, (E), 23:51856 (CERN-69-24)
interactions p + n at 605 and 630 MeV, triple scattering parameter, polarization, and phase-shift analysis for, 21:17037
interactions p + n at 605 MeV at 55 to 125°, Wolfenstein parameter and polarization in, (E), 25:17375
interactions p + N at 70 GeV, meson-focusing device for neutrino beam production from, 22:11629 (NP-17198)
interactions p + N at 70 GeV, search for $q = {}^{4}/_{3}$ diquarks in, (E), 25:40873
interactions p + n at 8 GeV, real part of amplitude for, (E/T), 22:1381
interactions p + n at 8 GeV/c, charge exchange, (E), 21:33806 (RHEL/R-129, pp 11-44)
interactions p + n at 8 to 340 MeV, phenomenological phase-parameter multiple energy fits for, 21:37847
interactions p + N at 83 GeV, elastic cross sections for primary cosmic, (E), 25:38653
interactions p + N at 9 GeV in emulsions, fast deuteron emission in very large stars from, 21:29439 (INR-775/VI/PH)
interactions p + n at 9.7 and 18.2 MeV, phase shift analysis of, 21:3978 (JINR-E1-2969)
interactions p + n at high energies, 36-plet 2^+ meson exchange for total cross section for, 22:5626
interactions p + n at high energies, compilation of cross sections for, (E), 25:17369 (CERN-HERA-70-2)
interactions p + n at high energies, cross sections for charge exchange, (E), 22:17858
interactions p + n at high energies, cross sections for elastic, (E), 22:17858
interactions p + n at high energies, differential cross sections for, (E/T), 24:18231
interactions p + n at high energies, multiple particle production in, 21:7502
interactions p + n at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions p + N at high energies, Regge pole model corrected by absorption for, 23:51930
interactions p + n at high energies, Regge-pole theory of elastic and charge-exchange, 21:25317
interactions p + n at intermediate energies, review of amplitudes for, 21:37683
interactions p + n at low energies, relation between deuteron binding energy and phase shift for, (T), 25:20022
interactions p + n below 350 MeV, boundary condition model interaction for, 21:37853
interactions p + n below threshold to 72 GeV, multiplicity distribution of charged secondaries from, 23:32619
interactions p + n from $p + d \to p + p + n$ interactions at 89 MeV, total cross sections for, (E), 23:18802
interactions p + n in A = 90 to 140 nuclei, effective, (T), 23:17112
interactions p + N in beryllium and iron at 4.5 to 6.0 GeV/c, antideuteron production from, (E), 21:27300 (NEVIS-159)
interactions p + N in beryllium and iron at 8.5 to 10.0 GeV/c, lower limits for quark production in, (E), 21:27300 (NEVIS-159)
interactions p + N in beryllium at 10 and 34 GeV/c, empirical formulas for particle production in, 21:25313 (BNL-11299)
interactions p + N in copper at 3.5 to 6.1 GeV, antiproton production from, (E), 21:27300 (NEVIS-159)
interactions p + n in deuteron breakup by protons, quasifree, (E), 24:15785
interactions p + N in emulsion nuclei at 24 and 1000 GeV, TeV-region cross section for elastic, (E), 21:44260 (INR-802/VI/PH)
interactions p + N in emulsion nuclei at 24 GeV/c, gray-track selection of, 23:30703
interactions p + N in emulsions at 24 and 27 GeV/c, analysis of small size stars from, (E), 21:3980
interactions p + N in emulsions at 24 and 27 GeV/c, π and p production from, 21:29442
interactions p + N in emulsions at 6.2 GeV/c, isobar model analysis of, 21:3979
interactions p + N in helium-4 at high energies, real part of amplitude for, (T), 21:27515 (INP-534/PL)
interactions p + N in nuclear emulsions at 19.8 GeV, identification of two- and three-pronged events using delta electrons, 21:2368
interactions p + n in nuclei, research using odd-odd spherical nuclei, (E/T), 22:1693
interactions p + n in p + d quasi-elastic interactions at 19.2 GeV/c and 0.06 to 1.6 $(\mathrm{GeV/c})^2$ momentum transfer, differential cross sections for, (E), 24:10670
interactions p + n in p(d,2p)n and d(p,2p)n reactions final-state, (E), 24:15783
interactions p + N in TeV region, elastic cross section determination from p + N interactions at 24 GeV in emulsions, 21:44266
interactions p + N in tungsten, upper limit for W production in, (E), 21:23314 (BNL-994, pp 70-102)
interactions p + n neutron form factor from diffraction model of elastic, 22:44383
interactions p + n, bibliography on experimental aspects of, 21:9697 (AERE-Bib-149)
interactions p + n, charge asymmetry effects from meson mixing in, (T), 21:37865
interactions p + n, chiral U(2) x U(2) symmetry for current x current structure of, 24:3686
interactions p + n, contribution of π branching to amplitude of charge-exchange, 23:30769
interactions p + n, current algebra and Regge pole theory for, 21:29522
interactions p + n, determination of coupling constants from π and $\Lambda + \Sigma$ poles in, (T), 22:32154
interactions p + n, effect of double-scattering corrections to Glauber model for p + d interactions on amplitudes for, 24:3693
interactions p + n, effect of π mass differences on phase parameters for, 24:40424
interactions p + N, helicity of virtual photon emitted in μ pair and hadron production in, (E/T), 24:26448
interactions p + n, inelastic, (E/T), 22:39262
interactions p + n, meson exchange theory for, 21:37854
interactions p + n, meson—nucleon coupling constants from forward dispersion relations for, 22:24683
interactions p + n, model with transverse momentum and Mandelstam representation for, 21:4060
interactions p + n, multiple-energy phase-parameter analysis and effective range for charge independence of, (T), 23:42697
interactions p + n, phase shift calculations for effective range parameters for, 21:37835
interactions p + n, Regge pole fits to cross sections for, 23:15095
interactions p + n, Regge pole model of charge-exchange, 23:5605
interactions p + n, Regge pole theory for charge-exchange, 23:5596
interactions p + n, scattering length for final-state, (E), 23:7082
interactions p + n, scattering length for, (E), 22:20443
interactions p + n, scattering lengths for, (E), 24:40552
interactions p + n, scattering matrix for relativistic, (T), 21:4065
interactions p + n, short- and long-range charge independence in, 22:37165
interactions p + n, soft-photon theory of bremsstrahlung production in, 22:37116
interactions p + n, systematic study of $p + d \to p + p + n$ interactions for scattering lengths for, (E), 24:37621 (KFK-1172)
interactions p + n, test of charge independence of nuclear forces from, 23:52175
interactions p + n, three-quark corrections to quark model for deviations from exact exchange degeneracy for total cross sections of, (T), 24:10770
interactions p + N, two-temperature statistical model for particle production in, 21:21253
interactions $p + p \to 2p + 2\pi$, review of diffractive processes in, (T), 25:17501
interactions $p + p \to 2p + 2\pi^+ + 2\pi^- (+\pi^0)$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $p + p \to 2p + m\pi^+ + m\pi^-$ at high energies, charge-conservation model for, (T), 25:59512
interactions $p + p \to 2p + n(K + \text{anti } K) + m\pi$, multiperipheral model for cross sections for, (T), 25:33693 (SU-1206-247)
interactions $p + p \to 2p + \pi^+ + \pi^- + \pi^0$ at 19 GeV/c in hydrogen bubble chamber, Δ, ω, and rho^+ production and cross sections for, (E), 25:19900 (USIP-70-4)
interactions $p + p \to 2p + \pi^+ + \pi^- + \pi^0$ at 25 GeV/c in hydrogen bubble chamber, multiparticle final state production in, (E), 25:43535
interactions $p + p \to 2p + \pi^+ + \pi^- + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, nonstrange resonance production in, (E), 22:46324 (UCRL-17707)
interactions $p + p \to 2p + \pi^+ + \pi^-$ at 10 GeV/c in hydrogen bubble chamber, N^* production in, (E), 22:37074 (DESY-68/17)
interactions $p + p \to 2p + \pi^+ + \pi^-$ at 19 GeV/c in hydrogen bubble chamber, Δ and N resonance production and cross sections for, (E), 25:19900 (USIP-70-4)
interactions $p + p \to 2p + \pi^+ + \pi^-$ at 19 GeV/c in hydrogen bubble chamber, Δ, N, and meson resonance production in, (E), 25:19901 (USIP-70-7)
interactions $p + p \to 2p + \pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, nonstrange resonance production in, (E), 22:46324 (UCRL-17707)
interactions $p + p \to 2p + \pi^+ + \pi^-$ interactions at 10 GeV/c in hydrogen bubble chamber, N^* production, cross sections and $p + p \to N(N') + N'$ interactions in, (E), 25:22677
interactions $p + p \to 2\pi^+ + 2\pi^- + \pi^0$ at 28.6 GeV/c in hydrogen bubble chamber, ω production from, (E), 22:15670 (BNL-11993)
interactions $p + p \to \text{anti } p$ + particles at 19.2 GeV/c, tri-Regge behavior of, (E/T), 25:53229
interactions $p + p \to B^{+++} + \pi^- \to p + p + \pi^+ + \pi^-$ at 2.0 to 2.85 MeV, upper limit for, (E), 21:23314 (BNL-994, pp 70-102)
interactions $p + p \to d + \text{delta}^+$ at 3.8 GeV/c, missing-mass search for $\text{delta}^+(960)$ in, (E), 22:5504
interactions $p + p \to d + e^+ + \nu$, meson exchange correction to, (T), 24:21993
interactions $p + p \to d + e^+ + \nu$/sub e/ in stellar interiors, rates for, (T), 23:14475
interactions $p + p \to d$ + MM at 1.1 to 1.9 GeV/c, spark chamber spectrometer study of differential cross sections for π^+, rho^+, and $\pi(980)$ enhancement production and upper limit for delta(962) production in, 25:17376
interactions $p + p \to d$ + MM at 3.8 GeV/c, spark-chamber spectrometer study of production of $\text{delta}^+(975)$ in, (E), 24:35606 (UCRL-19737)
interactions $p + p \to d$ + MM at 3.8 to 6.3 GeV, wire-chamber spectrometer study of differential cross sections for d and rates for π and rho production, (975) enhancement and delta(963) production in, (E), 25:43541
interactions $p + p \to d$ + MM at 3.8 to 6.3 GeV/c, search for T = 1 bosons near 1 GeV in, (E), 24:40283
interactions $p + p \to d + \pi^+ + \pi^0$, possible experiments for test of isospin invariance of, 22:48300
interactions $p + p \to d + \pi^+ + \pi^0$, strong interaction isospin invariance check from, (T), 22:22381 (JINR-P2-3691)
interactions $p + p \to d + \pi^+ + \pi^+ + \pi^-$ at 4 GeV/c in hydrogen bubble chamber, cross section for, 21:27386
interactions $p + p \to d + \pi^+$ at 1 to 3 GeV, counter study of differential cross sections for, (E), 22:22304
interactions $p + p \to d + \pi^+$ at 1.8 to 1.9 GeV/c, excitation function for, (E), 25:50219
interactions $p + p \to d + \pi^+$ at 2.8 GeV, single-nucleon exchange model for, (T), 22:32176
interactions $p + p \to d + \pi^+$ at 21 GeV/c, differential cross sections for, (E), 23:27743
interactions $p + p \to d + \pi^+$ at 3 to 13 GeV/c, one-pion-exchange and one-nucleon-exchange models for, 22:48326
interactions $p + p \to d + \pi^+$ at 3.4 to 12.3 GeV/c, $\pi + p$ interactions from spark-chamber spectrometer study of forward differential cross sections for, (E), 25:53008 (LA-4483)
interactions $p + p \to d + \pi^+$ at 3.4 to 12.3 GeV/c, forward differential cross sections for, (E), 22:48220
interactions $p + p \to d + \pi^+$ at 4 GeV/c in hydrogen bubble chamber, cross section for, 21:27386
interactions $p + p \to d + \pi^+$ at 660 MeV, meson (π^+) energy spectra and angular distributions from, (E), 24:8562
interactions $p + p \to d + \pi^+$ at 670 MeV, deuteron momentum spectra from, (E), 24:52404
interactions $p + p \to d + \pi^+$ at high energies, one-nucleon exchange mechanism for, 21:4061
interactions $p + p \to d + \pi^+$ at threshold, hard-pion technique for, 24:40417
interactions $p + p \to d + \pi^+$ at threshold, nucleon and Roper-resonance pole analysis of, 25:3410
interactions $p + p \to d + \pi^+$ at threshold, soft-pion technique for, 24:8670
interactions $p + p \to d + \pi^+$ below 1.5 GeV, π production amplitudes for, (T), 21:37858
interactions $p + p \to d + \pi^+$, existence of peaks in cross sections for, (T), 23:36955
interactions $p + p \to d + \pi^+$, meson-exchange effects in, (T), 24:15782
interactions $p + p \to d$ + rho at 1.5 to 3.0 GeV, (E), 21:18894 (AD-642585)
interactions $p + p \to d + \text{rho}^+ (\pi^+)$ at 4.0 to 12.3 GeV/c, spectrometer study of differential cross sections, $d\pi$ and drho enhancements, and search for delta^+ in, (E), 25:14542
interactions $p + p \to d + \text{rho}^+$ at 21 GeV/c, differential cross sections for, (E), 23:27743
interactions $p + p \to d + x^+$ at 1.55 to 2.9 GeV, Cherenkov and scintillation counter study of rho from, (E), 22:3264
interactions $p + p \to \Delta + N$, Regge pole model with factorization for, 24:10707
interactions $p + p \to \Delta + N^*(\Delta)$ at 10.01 GeV/c in hydrogen bubble chamber, momentum transfer distributions and cross sections for, (E), 25:36396
interactions $p + p \to \Delta + \text{rho} + N$ at 19 GeV/c in hydrogen bubble chamber, (E), 25:19902 (USIP-70-8)
interactions $p + p \to \Delta(1236) + \Delta(1236)$, model with form factor and meson (π) exchange for total cross sections for peripheral, 23:51954
interactions $p + p \to \Delta(1236) + n$ at 2.8 GeV/c, differential cross sections and decay angular distributions for, (E/T), 22:3261
interactions $p + p \to \Delta^{++} + n + \pi^+ + \pi^-$ at 6.6 GeV/c, cross sections for, (E/T), 23:5528
interactions $p + p \to \Delta^{++} + n$ at 19 GeV/c in hydrogen bubble chamber, energy dependence of cross sections for, (E), 25:56418 (USIP-71-6)
interactions $p + p \to \Delta^{++} + n$ at 6.6 GeV/c, $\pi^+ + p$ elastic cross sections from pole extrapolations of, (E), 23:42549
interactions $p + p \to \Delta^{++} + p + \pi^- + \pi^0$ at 6.6 GeV/c, cross section for, (E/T), 23:5528
interactions $p + p \to \Delta^{++} + p + \pi^-$ at 19 GeV/c, OPE and Regge models for, (E/T), 25:20032
interactions $p + p \to \Delta^{++} + p + \pi^-$ at 6.6 GeV/c, cross section for, (E/T), 23:5528

interactions $p + p \to \Delta^{++} + p + \pi^-$ at 6.6 GeV/c, double Regge-pole model analysis of, (E), 22:24539
interactions $p + p \to \Delta^{++} + \pi^- + p$ at 19 GeV/c in hydrogen bubble chamber, (E), 25:19902 (USIP-70-8)
interactions $p + p \to \Delta^{++} + \pi^- + p$ at very high energies, multiperipheral model for Pomeranchuk exchange in, 23:34624
interactions $p + p \to \Delta^{++} + \pi^- + p$, double Regge model analysis and extended Dolen—Horn—Schmid duality for, 23:36953
interactions $p + p \to \Delta^{++}(1236) + n$ at 1.6 to 10 GeV/c, one-pion-exchange model for, 23:42683
interactions $p + p \to \Delta^{++}(1236) + n$ at 19 GeV/c in hydrogen bubble chamber, Pomeron-like exchange dominance in cross sections for, 24:3514
interactions $p + p \to \Delta^{++}(1238) +$ hadrons at 28.5 GeV/c, role of π exchange in, (E/T), 24:35608
interactions $p + p \to \Delta^{++}(1246) + \Lambda$, $\Delta T = 1/2$ rule for, 21:33703
interactions $p + p \to \Delta^{++}(1900) + n$ at 19 GeV/c in hydrogen bubble chamber, (E), 25:19902 (USIP-70-8)
interactions $p + p \to \Delta^{++}(1900) + n$ at 19 GeV/c, production and decay of $\Delta^{++}(1900)$ in, (E), 24:49322
interactions $p + p \to \gamma + p + p$, cross sections and asymmetries for, (T), 25:33616
interactions $p + p \to K^+ + \Lambda + p$, generalized Veneziano model analysis of, (T), 25:53190
interactions $p + p \to K^+ +$ particles at 19.2 GeV/c, tri-Regge behavior of, (E/T), 25:53229
interactions $p + p \to K^- +$ particles at 19.2 GeV/c, tri-Regge behavior of, (E/T), 25:53229
interactions $p + p \to K^+ + X^+$ at 2.54, 2.88, and 3.03 GeV, search for $B = 2$, $S = -1$ resonance in, (E), 21:18906
interactions $p + p \to l^+ + l^- +$ hadrons, off-mass-shell bootstrap model for, 24:18144
interactions $p + p \to \Lambda + K + N$, one-boson-exchange model for, 23:7154 (NP-17686)
interactions $p + p \to \Lambda + K^0(K^+) + p + \pi^+(\pi^0)$ at 6 GeV/c in hydrogen bubble chamber, $K^*(890)$, $\Delta(1236)$, and $\Sigma(1385)$ production and cross sections for, (E), 24:10666
interactions $p + p \to \Lambda + K^+ + n + \pi^+$ at 6 GeV/c in hydrogen bubble chamber, $K^*(890)$, $\Delta(1236)$, and $\Sigma(1385)$ production and cross sections for, (E), 24:10666
interactions $p + p \to \Lambda + K^+ + p$ at 6 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:15675
interactions $p + p \to \Lambda + K^+ + p$ at 6 GeV/c in hydrogen bubble chamber, (E), 22:11581 (UCRL-17943)
interactions $p + p \to \Lambda + K^+ + p$ at 6 GeV/c, meson (K^+) production and cross sections for, (E), 23:1589
interactions $p + p \to \Lambda + n + K^+ + \pi^+$ at 6 GeV/c in bubble chamber, cross sections for, (E), 24:40256
interactions $p + p \to \Lambda + p + K^0 + \pi^+$ at 6 GeV/c in bubble chamber, cross sections for, (E), 24:40256
interactions $p + p \to \Lambda + p + K^+ + \pi^0$ at 6 GeV/c in bubble chamber, cross sections for, (E), 24:40256
interactions $p + p \to \Lambda(\Sigma) + K + N$, one-boson-exchange model for, 23:5641
interactions $p + p \to \mu^+ + \mu^- +$ particles in parton model, differential cross sections for, 25:40929
interactions $p + p \to n + (\Delta^{++} \to p + \pi^+)$ at high energies, reaction mechanisms in, 24:1619
interactions $p + p \to n + \Delta(1236) + p + \pi^+$ at 6.92 GeV/c, cross sections for, (E), 22:50292
interactions $p + p \to N + \Delta(1236)$ at 0.97 GeV in one-boson-exchange model, effects of form factor in, (T), 24:42988
interactions $p + p \to n + \Delta(1236)$ at 2.8 to 10 GeV/c, density matrix elements of $\Delta(1236) \to p + \pi^+$ decay from, (T), 22:35016
interactions $p + p \to n + \Delta^{++}$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $p + p \to n + \Delta^{++}$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $p + p \to n + \Delta^{++}$, Reggeized pion-exchange model for single π production in, (T), 25:47882
interactions $p + p \to n + \Delta^{++}(1236)$ at 13.0 to 24.2 GeV/c in hydrogen bubble chamber, π-exchange dominance in, (E), 24:26371
interactions $p + p \to n + \Delta^{++}(1236)$ at 8.1 GeV/c, absorption and Regge exchange models for analysis of, (E/T), 24:3517
interactions $p + p \to n + \Delta^{++}(1236)$, Regge-pole model for π exchange in, 22:26657
interactions $p + p \to n + \Delta^{++}(1920)$ at 6 GeV/c, $\Delta^{++}(1920) \to Y^{*+}(1385) + K^+$ and $\Delta^{++}(1920) \to \Delta^{++}(1236) + \mathrm{rho}^0$, cross sections for, (E), 22:44327
interactions $p + p \to N + N + \pi$ at high energies, design of counter experiments for studying, (E), 25:53017
interactions $p + p \to N + N^*$ at 5.5 to 30 GeV/c, absorption and Regge-pole models for, (E/T), 21:4063
interactions $p + p \to N + N^*$, impact parameter model for, 21:27382
interactions $p + p \to n + N^*$, $N^* \to \pi + N$ and $N^* \to \pi + N^*$, transverse momentum distribution of π from, 24:21991
interactions $p + p \to n + p + 2\pi^+ + \pi^-$ at 19 GeV/c in hydrogen bubble chamber, Δ, N, and rho^0 resonance production and cross sections for, (E), 25:19900 (USIP-70-4)
interactions $p + p \to n + p + \pi^+ + \pi^+ + \pi^-$, $N_1(1470)$ production and decay in, (E), 23:34623
interactions $p + p \to n + p + \pi^+$ at 310 MeV, soft-pion approximation for total cross section of, 22:46470
interactions $p + p \to n + p + \pi^+$ at 740 MeV, soft-pion predictions for, (E/T), 24:49499
interactions $p + p \to n + p + \pi^+$, cross sections for, (T), 24:3696
interactions $p + p \to n + p + \pi^+$, soft-pion theorem in current algebra for, 23:25657
interactions $p + p \to n + \Sigma^+ + K^+$, one-boson-exchange model for, 22:22414
interactions $p + p \to N^* + N^*$ at high energies, quark model for decay distribution correlations for, 21:21234
interactions $p + p \to N^* + N^*$, method for representing joint decay distributions from, (T), 22:39405 (TPJU-15/67)
interactions $p + p \to N^* + N^*$, model with form factor and meson (π) exchange for total cross sections of peripheral, 23:51954
interactions $p + p \to N^* + N^*$, $N^* \to N + \pi$ at 12.5 and 30 GeV/c, 23:5642
interactions $p + p \to N^* + N^*$, use of statistical tensors for joint decay angular distributions in, 22:24629
interactions $p + p \to N^* + p + \pi^-$ at 6 GeV/c, cross section, momentum transfer distribution, and $p\pi^-$ mass spectrum in, (E), 23:13030
interactions $p + p \to N^* + p$, two-pion exchange contributions to absorptive amplitude for N(1400) and N(1520) production in, 22:3424
interactions $p + p \to N^* + \pi + p$ at 7 GeV/c, slope of momentum transfer distribution for, (T), 25:30900
interactions $p + p \to N(N^+) + N^+$ in four-prong $p + p$ interactions at 10 GeV/c in hydrogen bubble chamber, (E), 25:22677
interactions $p + p \to N_{33}^* + p$, shrinking nature of diffraction amplitude for, 21:40222
interactions $p + p \to p + (\Delta^+ \to n + \pi^+)$ at high energies, reaction mechanisms in, 24:1619
interactions $p + p \to p + (\Delta^+ \to p + \pi^0$ at high energies, reaction mechanisms in, 24:1619
interactions $p + p \to p + (\pi + N)^+$ in diffraction dissociation model partial-wave expansion and final-state interaction for, (T), 24:42989
interactions $p + p \to p +$ anything at 20 to 1500 GeV, diffraction-model analysis of, (T), 25:59511
interactions $p + p \to p + \Delta$, diffraction dissociation model for resonance production in, 23:18929
interactions $p + p \to p + \Delta^+(1236)$, Regge-pole model for π exchange in, 22:26657
interactions $p + p \to p + \Delta^{++} + \pi^-$ at 19 GeV/c, four-momentum and angular distributions in, (E), 25:50152
interactions $p + p \to p + \Delta^{++} + \pi^-$, Cherenkov mechanism for cross section behavior of, (T), 25:56498 (IFA-HE-76)
interactions $p + p \to p +$ hadrons, one-photon exchange contribution to, 25:56457
interactions $p + p \to p + \Lambda + K^+$ at threshold, soft-kaon approximation for total cross sections for, (T), 23:25658
interactions $p + p \to p + \Lambda(\Sigma^0) + K^+$, one-boson-exchange model for, 22:22414
interactions $p + p \to p +$ missing mass at 28.5 and 29.6 GeV/c, missing-mass spectrometer and bubble chamber study of resonance production in peripheral, (E), 23:46603 (BNL-13918)
interactions $p + p \to p +$ missing mass at 29 GeV/c, structure in differential cross section for, (E), 24:47377
interactions $p + p \to p +$ missing mass, duality and triple Pomeron vertex for diffraction dissociation, 25:38726
interactions $p + p \to p + MM$ at 1.1 to 1.8 GeV, missing-mass spectra and widths for $\Delta(1227)$, N(1512), and N(1672) from, (E), 25:50061
interactions $p + p \to p + MM$, spectrometer for measuring missing mass spectrum from, 25:23855
interactions $p + p \to p + n + 2\pi^+ + \pi^-$ at 25 GeV/c in hydrogen bubble chamber, cross sections for $p\pi^+$ and $p\pi^-$ resonance production in, (E), 25:43535
interactions $p + p \to p + n + 2\pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, nonstrange resonance production in, (E), 22:46324 (UCRL-17707)
interactions $p + p \to p + n + 3\pi^+ + 2\pi^-$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $p + p \to p + n + 3\pi^+ + 2\pi^-$, Satz additive quark model sum rules for cross section for, 22:22308
interactions $p + p \to p + N + n\pi$, quark model for cross sections for, 23:5620
interactions $p + p \to p + N + \pi$, Cherenkov mechanism for analysis of cross section behavior of, (E/T), 25:41016
interactions $p + p \to p + N + \pi$, diffraction model with selection rules for spin and parity of diffractively produced resonances, 23:7145
interactions $p + p \to p + N + \pi$, triangle-Feynman-graph imitation of $\Delta(1236)$ and N(1470) production in, (T), 24:3704
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 10 GeV/c, cross section for, (E), 22:46326
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 28.5 GeV/c, diffraction-dissociation mechanism for, (E/T), 23:32612 (BNL-13671)
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 5 GeV/c in hydrogen bubble chamber, cross sections and N^* production in, (E), 21:44270
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 5 GeV/c in hydrogen bubble chamber, N^* production from, (E), 22:11587
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 6 GeV/c, OPE mechanism for Δ^{++} production in, (E), 23:14966
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, resonance and strange particle production in, (E), 22:32058
interactions $p + p \to p + n + \pi^+ + \pi^+ + \pi^-$ at 6.92 GeV/c, cross sections for, (E/T), 24:49319
interactions $p + p \to p + n + \pi^+$ and $p + p \to p + p + \pi^0$ at 6.07 GeV/c, $N^*(1400)$ production in, (E), 23:7083
interactions $p + p \to p + n + \pi^+$ and $p + p \to p + p + \pi^+ + \pi^-$ at 10 GeV/c, model with proton charge form factor for, (E/T), 25:50151
interactions $p + p \to p + n + \pi^+$ at 0.5 to 0.7 GeV, peripheral model for, 22:32177
interactions $p + p \to p + n + \pi^+$ at 10 GeV/c in hydrogen bubble chamber, N^* production in, (E), 22:37074 (DESY-68/17)
interactions $p + p \to p + n + \pi^+$ at 10 GeV/c in hydrogen bubble chamber, resonance production from, 21:40145
interactions $p + p \to p + n + \pi^+$ at 10 GeV/c in hydrogen bubble chamber, OPE model for $\Delta^{++}(1236)$ production from, (E/T), 22:11594
interactions $p + p \to p + n + \pi^+$ at 10 GeV/c, cross sections and invariant mass distributions, (E), 23:3646
interactions $p + p \to p + n + \pi^+$ at 10 GeV/c, OPE model for $N^{*++}(1236)$ production from, (E), 21:25230 (DESY-67/4)
interactions $p + p \to p + n + \pi^+$ at 19 GeV/c, four-momentum and angular distributions in, (E), 25:50152
interactions $p + p \to p + n + \pi^+$ at 2 GeV in hydrogen bubble chamber, scattering amplitude and nuclear radius determination from, 21:37677
interactions $p + p \to p + n + \pi^+$ at 2.4 GeV, relative cross section for singlet deuteron production in, (T), 21:23343
interactions $p + p \to p + n + \pi^+$ at 28.5 GeV/c, diffraction-dissociation mechanism for, (E/T), 23:32612 (BNL-13671)
interactions $p + p \to p + n + \pi^+$ at 28.5 GeV/c, double Regge pole model for π exchange and N(1400) production in, 22:46328
interactions $p + p \to p + n + \pi^+$ at 4 GeV/c in hydrogen bubble chamber, N^* production rates and cross section for, (E), 21:27386
interactions $p + p \to p + n + \pi^+$ at 55 to 135 MeV, dependence of isotropic and anisotropic parts of differential cross sections on energy of π^+ in, (E), 24:8562
interactions $p + p \to p + n + \pi^+$ at 556 and 660 MeV, analysis of peripheral model for, (T), 22:15813 (JINR-E2-3638)
interactions $p + p \to p + n + \pi^+$ at 556 and 660 MeV, peripheral model for, 22:11687 (JINR-P2-3597)
interactions $p + p \to p + n + \pi^+$ at 6 GeV/c, OPE mechanism for $\Delta^{++}(1236)$ production in, (E), 23:14966
interactions $p + p \to p + n + \pi^+$ at 6.92 GeV/c, cross sections for, (E), 22:50292
interactions $p + p \to p + n + \pi^+$ at 612 MeV, azimuthal asymmetry of π^+ production in, (E), 21:17036
interactions $p + p \to p + n + \pi^+$ at 660 and 970 MeV, one-pion-exchange model for, (T), 25:17516 (JINR-P2-5572)
interactions $p + p \to p + n + \pi^+$ at 7 GeV/c, double-peripheral mechanism for production characteristics of, (T), 24:49541
interactions $p + p \to p + n + \pi^+$ at 7 GeV/c, double-peripheral model for, 24:18223
interactions $p + p \to p + n + \pi^+$ at 8.1 GeV/c, Deck mechanism for analysis of N^* production in, (E/T), 24:3517
interactions $p + p \to p + n + \pi^+$ at high energies, OPE model for energy behavior and branching ratio of, 25:5392
interactions $p + p \to p + N + \pi^+$ at high energies, dual resonance model for diffraction dissociation, (E/T), 24:52122
interactions $p + p \to p + n + \pi^+$ below 1.5 GeV, π production amplitudes for, (T), 21:37858
interactions $p + p \to p + n + \pi^+$, cross sections for, 21:7502
interactions $p + p \to p + n + \pi^+$, Reggeized multiperipheral matrix element compatibility with s-channel helicity conservation in, (T), 25:22855
interactions $p + p \to p + n + \pi^+$, relativistic triangle-diagram cross sections for, 24:52150
interactions $p + p \to p + n + \pi^+$, synchrotron-radiation model for, 22:11690
interactions $p + p \to p + N^*$ at 19.2 GeV/c, $N^*(1518)$ and $N^*(1688)$ production in, (E), 23:7084
interactions $p + p \to p + N^*$ at 3 to 30 GeV/c, angular distributions and cross sections for, (E), 22:17859
interactions $p + p \to p + N^*$ at 3 to 7 GeV, differential cross sections for, (E), 22:11586
interactions $p + p \to p + N^*$ at 3 to 7 GeV/c, cross sections for, (E), 22:37076
interactions $p + p \to p + N^*$ at 4 to 30 GeV/c, one-pion-exchange amplitude for, 21:42393
interactions $p + p \to p + N^*$ at high energies, differential cross sections for, (E), 21:23314 (BNL-994, pp 70-102)
interactions $p + p \to p + N^*$, compound structure model and mass shift of P_{11} resonance in, 22:9623
interactions $p + p \to p + N^*$, excitation function for $N_{11}^*(1688)$ doublet production from, (T), 21:40175
interactions $p + p \to p + N^*$, momentum transfer dependence of N^* production in, (E), 25:25301
interactions $p + p \to p + N^*$, multiple-scattering formalism for, 22:48320
interactions $p + p \to p + N^*$, one-pion and diffraction contributions to, (T), 24:20173 (ITF-69-86)
interactions $p + p \to p + N^*$, quark model of diffractive production of N(1470) and N(1690) in, 25:33756
interactions $p + p \to p + N^*$, relation to $e + p \to e + N^*$ interactions, 23:42615
interactions $p + p \to p + N^*$, surface excitation model for, (T), 25:9808
interactions $p + p \to p + N^*(1400)$, differential cross sections for, 23:10817
interactions $p + p \to p + N^*(\Delta)$ at 10.01 GeV/c in hydrogen bubble chamber, momentum transfer distributions and cross sections for, (E), 25:36396
interactions $p + p \to p + N^{*+}$ and $p + p \to n + N^{*++}$, absorptive OPE model with form factors for, (E/T), 21:33706
interactions $p + p \to p + N^{*+}$, Regge residues in chiral symmetry for, 21:18976

interactions $p + p \to p + N(1470)$ at 6.6 GeV/c in bubble chamber, production of narrow N(1470) in, (E), 25:14552
interactions $p + p \to p + N(1518)$, differential cross sections for, 23:10817
interactions $p + p \to p + N(1680)$, differential cross sections for, 23:10817
interactions $p + p \to p + n(p) + \pi^+ + \pi^+(\pi^-) + \pi^-(\pi^0)$ at 6 GeV/c in hydrogen bubble chamber, Δ(2080), rho, eta, and ω production in, (E), 23:44596
interactions $p + p \to p + n(p) + \pi^+(\pi^0) + \pi^0$ at 28.5 GeV/c in hydrogen bubble chamber, final states in, (E) , 22:41728 (BNL-12673)
interactions $p + p \to p + n(p) + \pi^+(\pi^0) + \pi^0$ at 28.5 GeV/c in hydrogen bubble chamber, single isobar production in, (E), 22:46329
interactions $p + p \to p + n(p) + \pi^+(\pi^0)$ at 19 GeV/c in hydrogen bubble chamber, energy dependence of cross sections for, (E), 25:56418 (USIP-71-6)
interactions $p + p \to p + n(p) + \pi^+(\pi^0)$ at 28.5 GeV/c in hydrogen bubble chamber, final states in, (E) , 22:41728 (BNL-12673)
interactions $p + p \to p + n(p) + \pi^+(\pi^0)$ at 28.5 GeV/c in hydrogen bubble chamber, single isobar production in, (E), 22:46329
interactions $p + p \to p + n(p) + \pi^+(\pi^0)$ at 669 MeV, one-pion-exchange model for p polarization in, (T), 24:26447 (JINR-P2-4937)
interactions $p + p \to p + N_1^*$ at high energies, excited-droplet model for, 21:33718
interactions $p + p \to p + N_{33}^*$ at 6 to 15 GeV/c, absorptive effects in, 21:21254
interactions $p + p \to p + n\pi + N$ at high energies, cross sections for, (T), 23:21126
interactions $p + p \to p + p + 2\pi^+ + 2\pi^- + \pi^0$, Satz additive quark model sum rules for cross section for, 22:22308
interactions $p + p \to p + p + 2\pi^+ + 2\pi^-$ at 28.5 GeV/c in hydrogen bubble chamber, production mechanisms for, (E), 23:34525 (BNL-13694)
interactions $p + p \to p + p + f^0$ at 10 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:37074 (DESY-68/17)
interactions $p + p \to p + p + \gamma$ at 99 MeV, elastic pp phase shifts from, (E/T), 25:59520
interactions $p + p \to p + p + \gamma$ at 0 to 330 MeV, cross-section calculations using various equivalent potentials, (T), 24:3848
interactions $p + p \to p + p + \gamma$ at 10 MeV, cross section for, (E), 23:30928
interactions $p + p \to p + p + \gamma$ at 10 to 157 MeV, relativistic spin corrections for noncoplanar, (T), 25:19947
interactions $p + p \to p + p + \gamma$ at 10 to 200 MeV, potential model for cross section of coplanar and noncoplanar, 22:22418
interactions $p + p \to p + p + \gamma$ at 10.5 MeV, cross section for, (E), 22:32513(R) (ANU-P-400)
interactions $p + p \to p + p + \gamma$ at 10.5 MeV, cross section for bremsstrahlung production in, (E), 22:24518
interactions $p + p \to p + p + \gamma$ at 10.5 MeV, preliminary results for surface barrier counter study of upper limit of cross section of, (E), 22:39233 (ANU-P-407)
interactions $p + p \to p + p + \gamma$ at 147 MeV, (E), 21:13801
interactions $p + p \to p + p + \gamma$ at 20 MeV, bremsstrahlung spectra from, (E), 23:52109(R) (RLO-1388-96)
interactions $p + p \to p + p + \gamma$ at 20 MeV, cross section for bremsstrahlung production in, (E), 22:24519
interactions $p + p \to p + p + \gamma$ at 20 MeV, cross sections and γ angular distributions and energy spectra for, (E), 25:14545
interactions $p + p \to p + p + \gamma$ at 20 MeV, cross sections for, (T), 22:24596
interactions $p + p \to p + p + \gamma$ at 20 MeV, cross section for bremsstrahlung production in, (E), 23:10751
interactions $p + p \to p + p + \gamma$ at 3.2 MeV, cross section for bremsstrahlung production in, 22:48269
interactions $p + p \to p + p + \gamma$ at 42 MeV, wire-chamber spectrometer study of differential cross sections for, (E), 25:14556
interactions $p + p \to p + p + \gamma$ at 47 and 65 MeV, cross sections for, (E), 22:35292 (ORNL-4217, pp 1-81)
interactions $p + p \to p + p + \gamma$ at 47 MeV, cross sections for, (E), 23:15498
interactions $p + p \to p + p + \gamma$ at 47, 62, and 65 MeV, cross sections for, (E), 22:50276 (ORNL-TM-2275)
interactions $p + p \to p + p + \gamma$ at 48 MeV, computer-based system for measuring cross sections for, 22:47414
interactions $p + p \to p + p + \gamma$ at 52 MeV, cross section for, (E), 22:27288
interactions $p + p \to p + p + \gamma$ at 62 MeV, cross sections for, (E), 22:26796
interactions $p + p \to p + p + \gamma$ at 64.4 MeV, coplanar cross sections and noncoplanar dependence of, (E), 25:7530
interactions $p + p \to p + p + \gamma$ at 65 MeV, cross sections for, (E), 23:30930
interactions $p + p \to p + p + \gamma$ at 99 MeV, cross sections for, (E), 23:3633
interactions $p + p \to p + p + \gamma$ at 99 MeV, differential cross sections for, (E), 24:40231
interactions $p + p \to p + p + \gamma$ at 99 MeV, off-energy-shell effects in, (T), 24:1610
interactions $p + p \to p + p + \gamma$ at 99.0 MeV, coincidence methods for study of differential cross sections and photon angular distributions from, (E), 24:3493
interactions $p + p \to p + p + \gamma$ at low energies, (T), 23:25548
interactions $p + p \to p + p + \gamma$ at low energies, cross sections for, (T), 24:40303
interactions $p + p \to p + p + \gamma$ up to 200 MeV, pole contribution to cross section for, (T), 23:30931
interactions $p + p \to p + p + \gamma$, calculation of cross section for, 23:25549
interactions $p + p \to p + p + \gamma$, covariant formulation of, 23:42605
interactions $p + p \to p + p + \gamma$, covariant formulation of, (T), 23:27768 (UCSD-10-P-10-57)
interactions $p + p \to p + p + \gamma$, cross section for, (T), 21:44391
interactions $p + p \to p + p + \gamma$, cross section for, (T), 23:13344
interactions $p + p \to p + p + \gamma$, cross sections for, 21:9745
interactions $p + p \to p + p + \gamma$, cross sections for, (T) , 22:1454
interactions $p + p \to p + p + \gamma$, cross-section calculations using various models, (T), 24:10716
interactions $p + p \to p + p + \gamma$, differential and total cross sections for, (T), 21:46551
interactions $p + p \to p + p + \gamma$, differential and total cross sections for, (T), 21:46548
interactions $p + p \to p + p + \gamma$, Kroll—Ruderman theorem for ratio of total cross sections relative to $p + n \to p + n + \gamma$ interactions for, 23:32656
interactions $p + p \to p + p + \gamma$, Low theorem for soft photon emission from, 21:27388
interactions $p + p \to p + p + \gamma$, model-independent part of invariant amplitude for bremsstrahlung production, 21:37844
interactions $p + p \to p + p + \gamma$, N + N interactions below 350 MeV for, (T), 25:14734
interactions $p + p \to p + p + \gamma$, nonrelativistic scattering theory for energy dependence of effective cross section of, (T), 23:15036
interactions $p + p \to p + p + \gamma$, off-shell properties of two-nucleon elastic potentials from, (T), 24:15601
interactions $p + p \to p + p + \gamma$, potential model calculation for bremsstrahlung production in, 23:3759
interactions $p + p \to p + p + \gamma$, potential model calculations of cross sections for, 23:8779
interactions $p + p \to p + p + \gamma$, proton electromagnetic structure effects on cross sections for, (T), 25:17519
interactions $p + p \to p + p + \gamma$, relativistic and gauge-invariant calculations of cross sections for, 23:42599
interactions $p + p \to p + p + \gamma$, relativistic spin corrections to, (T), 24:35634
interactions $p + p \to p + p + \gamma$, rescattering effects in, (T), 23:25959
interactions $p + p \to p + p + \gamma$, review of, 22:48258
interactions $p + p \to p + p + nx$, meson bremsstrahlung model with phase space for, 22:22417
interactions $p + p \to p + p + \omega$, double Regge model analysis and extended Dolen—Horn—Schmid duality, 23:36953
interactions $p + p \to p + p + \omega$, quark model for, 23:18877 (ITF-68-36)
interactions $p + p \to p + p + \omega(\text{eta})$ at 10 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:37074 (DESY-68/17)
interactions $p + p \to p + p + \omega^0$, double Regge-pole model for, 22:15814
interactions $p + p \to p + p + \pi^0$ at 19 GeV/c, four-momentum and angular distributions in, (E), 25:50152
interactions $p + p \to p + p + \pi^0$ at 2 GeV in hydrogen bubble chamber, scattering amplitude and nuclear radius determination from, 21:37677
interactions $p + p \to p + p + \pi^0$ at 2.8 GeV/c in hydrogen bubble chamber, π^0 production cross sections for, 21:37836
interactions $p + p \to p + p + \pi^0$ at 4 GeV/c in hydrogen bubble chamber, N* production rates and cross section for, (E), 21:27386
interactions $p + p \to p + p + \pi^0$ at 6 GeV/c, OPE mechanism for $\Delta^{++}(1236)$ production in, (E), 23:14966
interactions $p + p \to p + p + \pi^0$ at 6.92 GeV/c, cross sections for, (E), 22:50292
interactions $p + p \to p + p + \pi^0$ at high energies, model for single π production from, 21:19023
interactions $p + p \to p + p + \pi^0$ at low and moderate energies, differential cross sections for, 25:9819
interactions $p + p \to p + p + \pi^0$ below 1 GeV, cosmic gamma spectrum from $\Delta^+(1236)$ and fireball production in, (T), 22:20125 (NP-17315)
interactions $p + p \to p + p + \pi^0$ below 1.5 GeV, π production amplitudes for, (T), 21:37858
interactions $p + p \to p + p + \pi^0$ near threshold, cross sections for, (T), 23:44675
interactions $p + p \to p + p + \pi^0$, crossing relations in Regge pole theory for, 21:37815
interactions $p + p \to p + p + \pi^0$, DWBA analysis with phenomenological potentials, 25:7687
interactions $p + p \to p + p + \pi^0$, model for analysis of, 24:28569
interactions $p + p \to p + p + \pi^0$, soft-pion theorem in current algebra for, 23:25657
interactions $p + p \to p + p + \pi^0$, synchrotron-radiation model for, 22:11690
interactions $p + p \to p + p + \pi^+ + \pi^0$ at 28.5 GeV/c in hydrogen bubble chamber, ω^0 production from, (E), 22:7434 (BNL-11980)
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 10 GeV/c, cross sections and invariant mass distributions for, (E), 23:3646
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 10 GeV/c, model with proton charge form factor for, (E/T), 25:50151
interactions $p + p \to p + p + \pi^+ + \pi^+ + \pi^0$ at 10 GeV/c, cross sections and invariant mass distributions for, (E), 23:3646
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 5 GeV/c in hydrogen bubble chamber, cross sections and eta, ω, and N* production in, (E), 21:44270
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 5 GeV/c in hydrogen bubble chamber, eta, ω, and N* production from, (E), 22:11587
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, resonance and strange particle production in, (E), 22:32058
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 6 GeV/c, OPE mechanism for Δ^{++} production in, (E), 23:14966
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 6.6 GeV/c, ω (783) production in, (E), 24:37627
interactions $p + p \to p + p + \pi^+ + \pi^- + \pi^0$ at 6.92 GeV/c, cross sections for, (E/T), 24:49319
interactions $p + p \to p + p + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 10 GeV/c, cross section for, (E), 22:46326
interactions $p + p \to p + p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 28.5 GeV/c, models of production mechanisms for, (E/T), 24:3701
interactions $p + p \to p + p + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 10 GeV/c, cross section for, (E), 22:46326
interactions $p + p \to p + p + \pi^+ + \pi^-$ and $p + p \to p + \pi^+ + \pi^+ + \pi^- + n$ at 22 GeV/c, mass distributions and resonance production in, (E), 23:14967
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 10 and 22 GeV/c, Monte Carlo models for direct simulation of, 25:47897
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 10 GeV/c in hydrogen bubble chamber, resonance production from, 21:40145
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 10 GeV/c, cross sections and invariant mass distributions for, (E), 23:3646
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 16 GeV/c, Regge pole model predictions for cross sections and angular distributions in, (E/T), 23:15146
interactions $p + p \to p + p + \pi^- + \pi^+$ at 2.8 GeV/c in bubble chamber, production of N*(1400) in, (E), 24:45417
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 22 GeV/c in bubble chamber, reliability of one-constraint fits for, (E), 21:44261 (IS-1651)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 22 GeV/c, spin analysis of $p\pi^+\pi^-$(1450 and 1700) enhancements in, (E), 24:12946
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 22 GeV/c, production and decay of N(1400) in, (E), 23:1597
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 24.8 GeV/c, production of $p\pi^+\pi^-$ enhancements (1423) and (1688) in, (E), 23:8729
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 25 GeV/c in hydrogen bubble chamber, Δ^{++}, f^0, $p\pi^+\pi^-$(1426), and $p\pi^+\pi^-$(1692) production in, (E), 25:43535
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 28.5 GeV/c in hydrogen bubble chamber, $\Delta^{++}(1236)$ and $N\pi(1400)$ enhancement production in, (E), 25:12091
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 28.5 GeV/c in hydrogen bubble chamber, final states in, (E), 22:41728 (BNL-12673)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 28.5 GeV/c, diffraction-dissociation mechanism for, (E/T), 23:32612 (BNL-13671)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 28.5 GeV/c in hydrogen bubble chamber, single isobar production in, (E), 22:46329
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 5 GeV/c in hydrogen bubble chamber, cross sections and N* production in, (E), 21:44270
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 5 GeV/c in hydrogen bubble chamber, N* production from, (E), 22:11587
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, peripheral production of NN* and N*N* in, (E), 23:44596
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, resonance and strange particle production in, (E), 22:32058
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 6 GeV/c, OPE mechanism for Δ^{++} production in, (E), 23:14966
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 6.6 GeV/c, analysis off $\Delta p\pi$ production in peripheral, (E/T), 25:22682
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 6.92 GeV/c, cross sections for, (E/T), 24:49319
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 7.9 GeV/c in hydrogen bubble chamber, resonance production in, (E), 23:23355
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 7.9 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39251 (COO-1195-125)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 7.9 GeV/c, Reggeized π exchange for $\Delta\pi(1425)$ enhancement in, 25:5278
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 7.9 GeV/c, Reggeized pion exchange model for $\Delta^{++}(1236)\pi^-$ enhancement at 1425 MeV in, (E/T), 23:7080 (COO-1195-151)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 8 GeV/c in bubble chamber, cross sections for N* production in, (E), 24:47364 (CEA-N-1221)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 8 GeV/c, cross sections for resonance production in, (E), 22:24535
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 8 GeV/c, $N^{*++}(1236)$ production in, (E), 21:17031 (COO-1195-78)
interactions $p + p \to p + p + \pi^+ + \pi^-$ at 8.1 GeV/c, multi-Regge analysis of, (E/T), 25:1559
interactions $p + p \to p + p + \pi^+ + \pi^-$ at very high energies, integrated cross sections, angular distributions, and pionization in diffractive, (T), 25:53050 (DESY-71/36)
interactions $p + p \to p + p + \pi^+ + \pi^-$, model for analysis of, 24:28569

interactions p + p → p + p above 10 GeV, single Regge pole model for large-angle, 23:21130
interactions p + p → p + p above 18 GeV at small momentum transfers, review of slope of cross sections for, (E), 24:12943
interactions p + p → p + p and p + p → p + N*, effect of hard core on absorption in, 21:35317
interactions p + p → p + p at 0.05 to 200 GeV, real part of amplitude of, (T), 22:39403 (JINR-P2-3850)
interactions p + p → p + p at 0.5 to 1.2 GeV, polarization parameter angular distribution and phase shift analysis for, (E), 25:56412 (CEA-R-4193)
interactions p + p → p + p at 0.97 GeV in one-boson-exchange model, effects of form factor in, (T), 24:42988
interactions p + p → p + p at 1 GeV, phase shift analysis of, (T), 25:33766 (JINR-P1-5737)
interactions p + p → p + p at 1 to 10 GeV at small angles, tables of differential cross sections for, (E), 22:17852 (JINR-P1-3641)
interactions p + p → p + p at 1 to 10 GeV, differential cross sections of small-angle, (T), 22:22411(T) (SLAC-Trans-80)
interactions p + p → p + p at 1 to 10 GeV, tables for differential cross sections of small-angle, 22:48221
interactions p + p → p + p at 1.5 to 5.5 GeV/c and 40 to 90°, differential cross sections for, (E), 24:49313 (COO-2009-15)
interactions p + p → p + p at 1.5 to 5.5 GeV/c and 30 to 90°, spark chamber and scintillation counter study of differential cross sections for, (E), 25:47727 (COO-2009-18)
interactions p + p → p + p at 1.5 to 5.5 GeV/c at 30 to 90°, spark chamber and scintillation counter study of differential cross sections and angular distributions for, (E), 25:43539
interactions p + p → p + p at 10 to 70 GeV/c with small momentum transfer, moving-pomeron-plus-cuts model for pomeron slope in, 24:18225
interactions p + p → p + p at 10.8 and 19.2 GeV, calculation of overlap function from, (E/T), 24:24401
interactions p + p → p + p at 11.26 and 30.0 GeV/c, Serber model and Bakamjian—Thomas theory for, 22:3468
interactions p + p → p + p at 15 to 30 GeV/c, discrete values of momenta for, (E/T), 24:52111 (JINR-E1-5219)
interactions p + p → p + p at 19 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:56417 (USIP-71-4)
interactions p + p → p + p at 19 GeV/c in hydrogen bubble chamber, Pomeron-like exchange dominance in cross sections for, (E), 24:3514
interactions p + p → p + p at 2 GeV in hydrogen bubble chamber, scattering amplitude and nuclear radius determination from, 21:37677
interactions p + p → p + p at 21 GeV/c at 0 to 180°, angular distributions for, (T), 24:18198
interactions p + p → p + p at 27 MeV, Monte-Carlo simulation of spin correlation measurements in, 21:933 (LA-3558)
interactions p + p → p + p at 3 to 7 GeV, differential cross sections for, (E), 22:11586
interactions p + p → p + p at 3 to 7 GeV/c large angles, eikonal model with soft virtual neutral vector meson exchange for cross sections and angular distributions of, (T), 24:45542 (NYO-2262-TA-223)
interactions p + p → p + p at 3 to 7 GeV/c, cross sections for, (E), 22:37076
interactions p + p → p + p at 3 to 7 GeV/c, magnetic spectrometer and scintillation counter study of, (E), 22:3262
interactions p + p → p + p at 4 GeV/c in hydrogen bubble chamber, cross section for, (E), 21:27386
interactions p + p → p + p at 5 to 13.4 GeV/c, use of exact forms for amplitude in Regge pole theory for, (T), 25:36531
interactions p + p → p + p at 5 to 20 GeV at large angles, statistical theory for, 22:44450
interactions p + p → p + p at 5 to 30 GeV, one-pion-exchange contribution to elastic, (T), 24:13121
interactions p + p → p + p at 5 to 30 GeV, one-vector-boson exchange with form factors as functions of energy momentum transfer, and relative phases for elastic, (T), 24:13121
interactions p + p → p + p at 50 GeV, differential cross sections and slope parameters for, (E), 25:30725 (JINR-P1-5633)
interactions p + p → p + p at 50 GeV, emulsion study of differential cross sections and slope parameters for, (E), 25:59273
interactions p + p → p + p at 50 GeV, emulsion study of slope parameter of differential cross sections for, (E), 25:53022
interactions p + p → p + p at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions p + p → p + p at 6 GeV/c, Cherenkov counter study of polarization parameter for, (E), 24:24227
interactions p + p → p + p at 6 GeV/c, cross sections for, (E), 23:14966
interactions p + p → p + p at 600 MeV, differential cross sections and polarization in, (E), 24:51942
interactions p + p → p + p at 600 to 1800 MeV/c at 5 to 90°, wire spark chamber spectrometer study of differential cross sections for, (E), 24:5237 (PPAR-11)
interactions p + p → p + p at 635 MeV at 34 to 117°cms, test of time reversal invariance in polarization asymmetry in, (E), 23:46604 (JINR-E1-4650)
interactions p + p → p + p at 635 MeV, angular asymmetry in, (E), 22:13651
interactions p + p → p + p at 635 MeV, time reversal invariance determination from polarization asymmetry in triple-scattering, (E), 24:52165
interactions p + p → p + p at 640 MeV, phase analysis study of pp(2050) resonance in, (T), 25:20016(T) (CERN-Trans-70-14)
interactions p + p → p + p at 660 MeV, spark chamber study of triple scattering depolarization transfer parameter for, (E), 24:28483
interactions p + p → p + p at 7 to 12 GeV/c at large momentum transfers, structure in angular distribution for, (E), 22:39249 (CERN-68-7(Vol.1), pp 580-94)
interactions p + p → p + p at 7.1 to 12.1 GeV and 40 to 90°, scaling in cross sections for, (T), 24:47479
interactions p + p → p + p at 8.1 to 21.3 GeV/c at wide angles, scintillation-counter telescope study of differential cross sections for, (E), 24:10664 (RHEL/R-186)
interactions p + p → p + p at 9.690 and 9.918 MeV, differential cross sections for, (E), 24:12939
interactions p + p → p + p at 9.690 to 13.600 MeV, differential cross sections for, (E), 25:27957
interactions p + p → p + p at 984 MeV and 70 to 110°, spark chamber study of Wolfenstein triple-scattering depolarization parameter for, 24:28487
interactions p + p → p + p at high energies and fixed momentum transfer, asymptotic expansion of amplitudes for polarization in, 22:37143
interactions p + p → p + p at high energies and large angles, Regge cuts for multiple rescattering in, 24:20180
interactions p + p → p + p at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions p + p → p + p at high energies and large angles, cross sections for, (T), 25:36534
interactions p + p → p + p at high energies and large angles, linearized unitarity relation for fourth power of proton magnetic form factor proportionality with differential cross sections for, 23:51964
interactions p + p → p + p at high energies and small angles, Regge pole eikonal theory for differential cross sections and polarizations for, 24:10777 (SU-1206-211)
interactions p + p → p + p at high energies, asymptotic behavior of diffraction slopes for, 23:51963
interactions p + p → p + p at high energies, asymptotic formula for semi-phenomenological analysis of, 24:8621
interactions p + p → p + p at high energies, compatibility between diffractive and statistical mechanisms for, (T), 24:52142
interactions p + p → p + p at high energies, compilation of polarization data and exchange degenerate Regge pole model for, (E/T), 25:53186
interactions p + p → p + p at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions p + p → p + p at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions p + p → p + p at high energies, flat Pomeron and Wu-Yang hypothesis in model for, (T), 25:1563
interactions p + p → p + p at high energies, Glauber series for, 23:23498
interactions p + p → p + p at high energies, large-angle, (T), 23:25655
interactions p + p → p + p at high energies, model for diffraction, (T), 24:52132
interactions p + p → p + p at high energies, model for diffraction peak shrinkage in, 22:13741
interactions p + p → p + p at high energies, multiple scattering corrections in Pomeranchon exchange representation for, 23:39746 (LNF-69/30)
interactions p + p → p + p at high energies, optical model for spin-averaged differential cross section for large-angle, (T), 25:47898
interactions p + p → p + p at high energies, predictions of quark model for large-angle, 23:21096
interactions p + p → p + p at high energies, quantum structure of mean-square transverse momenta for differential cross sections for, (T), 24:1617 (JINR-P1-4666)
interactions p + p → p + p at high energies, quasipotential equation for, 23:44668 (IC-69/87)
interactions p + p → p + p at high energies, Regge cut dominance and Fubini sum rule for relation of proton electromagnetic form factor with diffraction peak widths of, (T), 23:51896
interactions p + p → p + p at high energies, single model for optical model and S-matrix descriptions of, (T), 24:45552
interactions p + p → p + p at high energies, unitarity condition for imaginary part of amplitude for large-angle, 22:13743
interactions p + p → p + p at high energies, unitarity for structure of differential cross sections for, (T), 24:49444
interactions p + p → p + p at high energies, Veneziano model for total and differential cross sections and polarizations of, (T), 25:1569
interactions p + p → p + p at large angles, Veneziano model satisfying Cerulus—Martin bound for, 23:25644 (LNF-68/74)
interactions p + p → p + p at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions p + p → p + p at large momentum transfers, Orear formula for, 22:26671
interactions p + p → p + p at large momentum transfers, diffraction-like structure in differential cross sections for, (E), 22:32055
interactions p + p → p + p at very high energies and high momentum transfers, large-angle, (E/T), 25:5281 (CONF-700314-, Paper 15)
interactions p + p → p + p at very high energies, integrated cross sections, angular distributions, and pionization in diffractive, (T), 25:53050 (DESY-71/36)
interactions p + p → p + p below 1.5 GeV, π production amplitudes for, (T), 21:37858
interactions p + p → p + p below 30 GeV, proton compressibility and slope changes for ln(d sigma/dt) in, (T), 23:36957
interactions p + p → p + p below 30 GeV, repulsive core and interaction energy in, (T), 23:36958
interactions p + p → p + p below 400 MeV, optimized polynomial expansion for phase shift analysis of, 24:40415
interactions p + p → p + p below 750 MeV/c, review of meson resonance coupling to nucleons from on- and off-shell methods for, (T), 25:30903
interactions p + p → p + p in deuterium target, cross section ratio to p + n → p + n interactions for, (E), 25:25304
interactions p + p → p + p in small-momentum transfer region, structure of forward peak in differential cross sections of, (T), 24:28568
interactions p + p → p + p near 90°, model for flat distribution in differential cross section for, (T), 25:22842
interactions p + p → p + p* (p* → p + γ) at 204 MeV, cross sections and asymmetries for polarized, (E), 21:33601
interactions p + p → p + p, bremsstrahlung model for relation of proton electromagnetic form factors with differential cross sections of, (T), 24:52145
interactions p + p → p + p, Chou—Yang model in current—current interaction picture for, 24:52401
interactions p + p → p + p, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions p + p → p + p, contribution of Mandelstam branch cuts from Reggeon exchange to, (T), 22:3455
interactions p + p → p + p, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions p + p → p + p, diffraction peak in, (T), 23:30751
interactions p + p → p + p, finite-energy sum rules for amplitude from quasipotential equation for, 23:32757 (ITF-69-30)
interactions p + p → p + p, models with fixed pole and shielding cut for scaling relation among amplitudes of, (T), 25:41000 (COO-264-576)
interactions p + p → p + p, modified Lorentz pole analysis of amplitude for, 23:27813
interactions p + p → p + p, quasipotential model for elastic, (E/T), 24:3518
interactions p + p → p + p, Regge cut corrections to Regge pole exchange for breaks in differential cross section for, 24:18230
interactions p + p → p + p, Regge pole theory for, 24:20158
interactions p + p → p + p, relation with structures in anti p + p → anti p + p interactions on s, t, u plane for structures in, 24:10784
interactions p + p → p + p, review of experiments for testing T-invariance in, (T), 23:14961(T) (CERN-Trans-68-9)
interactions p + p → p + p, scaling for proton hadronic form factor for relation between p + p → p + p* and, (T), 25:53211
interactions p + p → p + p, semiclassical model for cross sections of, 24:24229
interactions p + p → p + p, spin extension of Chou—Yang model for differential cross sections of, (T), 25:59513
interactions p + p → p + p, two-particle symmetry-group models for S-wave phase shifts for, 24:35668
interactions p + p → p + p*, scaling for proton hadronic form factor for relation between p + p → p + p and, (T), 25:53211
interactions p + p → p + p(n) + $\pi^0(\pi^+)$ at 19 GeV/c in hydrogen bubble chamber, Pomeron-like exchange dominance in cross sections for, (E), 24:3514
interactions p + p → p + p(n) + $\pi^0(\pi^+)$ at 19 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:56417 (USIP-71-4)
interactions p + p → p + p(n) + $\pi^+ + \pi^- + \pi^0(\pi^+)$ at 10 GeV/c in hydrogen bubble chamber, N* production, cross sections, and p + p → N(N') + N' interactions in, (E), 25:22677
interactions p + p → p + p(n) + $\pi^+ + \pi^- + \pi^0(\pi^+)$ at 10 GeV/c in hydrogen bubble chamber, N* production in, (E), 22:37074 (DESY-68/17)
interactions p + p → p + p(n) + $\pi^+ + \pi^-(\pi^+) + \pi^0(\pi^-)$ near threshold, cross sections for, (E), 24:3536
interactions p + p → p + p(n) + $\pi^+ + \pi^-(\pi^+) + \pi^0(\pi^-)$ at 19 GeV/c in hydrogen bubble chamber, Δ, N, and meson resonance production in, (E), 25:19901 (USIP-70-7)
interactions p + p → p + p(N*) at 20 GeV/c, Regge cuts in diffractive, 23:51962
interactions p + p → p + particles at 19.2 GeV/c, tri-Regge behavior of inclusive, (E/T), 25:53229
interactions p + p → p + particles, analysis of background in resonance-production region of, 25:47834
interactions p + p → p + π^0 + p, counter experiments for measuring final states in, 25:5318
interactions p + p → p + $\pi^- + \Delta^{++}$ at 22 GeV/c, double Regge pole models for, (T), 25:43580
interactions p + p → p + $\pi^- + \Delta^{++}$ at 28.5 GeV/c, Reggeized double-peripheral-model analysis of, 23:25659
interactions p + p → p + π^+ + n at 28.5 GeV/c in hydrogen bubble chamber, single isobar production in, (E), 22:46329
interactions p + p → p + π^+ + n at 6.6 GeV/c, extraction of πp cross sections from, (E/T), 24:30533 (CONF-690521-, pp 1-26)
interactions p + p → p + π^+ + n, counter experiments for measuring final states in, 25:5318

interactions $p + p \rightarrow p + \pi^+(\Delta^{++}) + \pi^- + p$ at 19 GeV/c, one-pion-exchange model for, (E), 25:20020 (USIP-70-5)
interactions $p + p \rightarrow p + \Sigma^+ + K^0$, one-boson-exchange model for, 22:22414
interactions $p + p \rightarrow p + X$ at 6.2 to 29.7 GeV/c, duality in triple Regge limit, (T), 25:43649
interactions $p + p \rightarrow \pi$ + anything at 12.4 to 1500 GeV, diffraction-model calculations of meson (π) multiplicities and spectra in, (T), 25:59511
interactions $p + p \rightarrow \pi$ + anything at high energies, scaling behavior of, (E/T), 24:42872
interactions $p + p \rightarrow \pi + n + p$ at high energies, Weizaecker—Williams method for cross sections for, 24:18232
interactions $p + p \rightarrow \pi$ + particle at high energy, O(3, 1) analysis of single-particle spectra in, 25:9816
interactions $p + p \rightarrow \pi$ + particles at 250 GeV/c, angular distributions from scaling hypothesis for, (T), 25:7685 (RLO-1388-587)
interactions $p + p \rightarrow \pi^+ + d$ above 7 GeV, Regge pole model and Regge cut in phenomenological analysis of, 24:40416
interactions $p + p \rightarrow \pi^+ + d$ at 0 to 300 MeV, (T), 24:52113 (NP-18446)
interactions $p + p \rightarrow \pi^+ + d$ at 1.04 to 1.45 GeV/c, angular distribution of polarization and Δ(1236) production in, (E), 25:22670
interactions $p + p \rightarrow \pi^+ + d$ at 330 MeV, polarization measurements for phase shift analysis for transition amplitudes of, (E/T), 23:49174 (TRI-69-4)
interactions $p + p \rightarrow \pi^+ + d$ at 425 MeV, polarization and differential cross section for, (E), 25:59270
interactions $p + p \rightarrow \pi^+ + d$ at 5 GeV/c, differential cross section for, (E), 22:15674
interactions $p + p \rightarrow \pi^+ + d$ at threshold to 300 MeV, covariant theory of, 22:29717
interactions $p + p \rightarrow \pi^+ + d$ at threshold, effects of D-state probability and two-nucleon potentials in s-wave, 25:33771
interactions $p + p \rightarrow \pi^+ + d$, broken-duality model in Regge pole theory for, 23:32773
interactions $p + p \rightarrow \pi^+ + d$, dispersion theory for deuteron vertex function for, 21:46555
interactions $p + p \rightarrow \pi^+ + d$, relation between $p + p \rightarrow \pi^+ + n + p$ interactions and, (T), 22:41828
interactions $p + p \rightarrow \pi^+ + d$, rising trajectories in, (E/T), 23:44660
interactions $p + p \rightarrow \pi^+ + n + p$ at 650 MeV, triple differential cross sections for, (E), 25:17370 (JINR-P1-5570)
interactions $p + p \rightarrow \pi^+ + n + p$, finite-mass corrections to cross sections for S-wave, 24:24406
interactions $p + p \rightarrow \pi^+ + n + p$, relation between $p + p \rightarrow \pi^+ + d$ interactions and, (T), 22:41828
interactions $p + p \rightarrow \pi^+ + p + n$ at 660 MeV, π^+ energy spectrum and angular dependence of spectrum shape for mechanism for, 24:30535
interactions $p + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + n$ and $\pi^+ + p \rightarrow \pi^+ + p + n$, cross section ratio for, (E/T), 24:24374
interactions $p + p \rightarrow \pi^- +$ particles at 19.2 GeV/c, tri-Regge behavior of inclusive, (E/T), 25:53229
interactions $p + p \rightarrow \pi^+ +$ particles at 19.2 GeV/c, tri-Regge behavior of inclusive, (E/T), 25:53229
interactions $p + p \rightarrow \pi^+ +$ particles at 3 to 19.2 GeV/c, hypothesis of limiting fragmentation in, (E/T), 25:41031
interactions $p + p \rightarrow \pi^+ + \pi^- + 2p$ up to 250 and at 730 MeV, Δ^{++}(1236) production and total cross sections and angular distributions for π^- and π^+ production in, (E), 25:53226 (LA-DC-12944)
interactions $p + p \rightarrow \pi^+(\pi^0) + n(p) + p$ at 600 to 660 MeV, one-pion-exchange model predictions for, (E/T), 25:25297 (JINR-P1-5571)
interactions $p + p \rightarrow \pi^+(\pi^0) + p + n(p)$ at 669 MeV at 8.3 to 18.0°, polarization of secondary protons in, (E), 25:33537
interactions $p + p \rightarrow \pi^+(\pi^0) + p + n(p)$ at 669 MeV, secondary proton polarization in, (E), 25:5268 (JINR-P1-5293)
interactions $p + p \rightarrow$ rho $+ \Delta + N$ at 19 GeV/c, cross sections for rho production in, (E/T), 25:1556
interactions p + p , solution to $^1S_0$-wave equation of, 22:26669
interactions $p + p \rightarrow \Sigma + K + N$, one-boson-exchange model for, 23:7154 (NP-17686)
interactions $p + p \rightarrow \Sigma^0 + K^+ + p$ at 6 GeV/c in hydrogen bubble chamber, (E), 22:11581 (UCRL-17943)
interactions $p + p \rightarrow \Sigma^0 + K^+ + p$ at 6 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:15675
interactions $p + p \rightarrow \Sigma^0 + K^+ + p$ at 6 GeV/c, meson (K^+) production and cross sections for, (E), 23:1589
interactions $p + p \rightarrow \Sigma^+ + K^0 + p$ at 5 GeV/c, cross section for, (E), 22:26561
interactions $p + p \rightarrow \Sigma^+ + K^0 + p$ at 6 GeV/c in hydrogen bubble chamber, (E), 22:11581 (UCRL-17943)
interactions $p + p \rightarrow \Sigma^+ + K^0 + p$ at 6 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:15675
interactions $p + p \rightarrow \Sigma^+ + K^0 + p$ at 6 GeV/c, meson (K^0) production and cross sections for, (E), 23:1589
interactions $p + p \rightarrow \Sigma^+ + K^+ + n$ at 5 GeV/c, cross sections for, (E), 22:26561
interactions $p + p \rightarrow \Sigma^+ + K^+ + n$ at 6 GeV/c in hydrogen bubble chamber, (E), 22:11581 (UCRL-17943)
interactions $p + p \rightarrow \Sigma^+ + K^+ + n$ at 6 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:15675
interactions $p + p \rightarrow \Sigma^+ + K^+ + n$ at 6 GeV/c, meson (K^+) production and cross sections for, (E), 23:1589
interactions $p + p \rightarrow X$ + anything at high energies, scaling law in dual-resonance model for deep inelastic, (T), 25:59428
interactions $p + p \rightarrow Y + K + N$, π and K exchange contributions to, (T), 25:14597
interactions p + p above 1 GeV as probe of nuclear structure, 21:23402 (BNL-11285)
interactions p + p above 1 GeV, multiplicity distributions of charged secondary particles in, (E), 22:52931 (KFKI-20/1968)
interactions p + p above 1 GeV/c, data compilation for, (E), 22:37075 (NP-17500)
interactions p + p above 10 GeV, optical model of, 22:35017
interactions p + p above 10 GeV, optical-model calculations of, (E/T), 25:28052
interactions p + p above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009
interactions p + p above 10 GeV/c, cross section for elastic, (T), 21:9809
interactions p + p above 15 GeV, program for particle spectra calculations based on two-temperature statistical model, 23:8731
interactions p + p above 20 GeV/c modifications to eikonal model for elastic, 24:20181
interactions p + p above 20 GeV/c, diffraction model for forward peak in elastic, 25:3417
interactions p + p above 400 MeV, review of phase shift analysis for, 21:37861
interactions p + p above 90 GeV angular distributions of charged secondaries from, (E), 25:33539
interactions p + p and e + p at large momentum transfers, relation between elastic, 22:48257 (LNF-68/40)
interactions p + p and e + p at large momentum transfers, relation between elastic, 22:50415
interactions p + p and K + p, triple-Regge hypothesis for relations between cross sections for inclusive, 25:56515
interactions p + p as proposed test of impact picture of hadron dynamics, 25:28045 (DESY-71/6)
interactions p + p at 0 to 10 MeV, s-wave shape-dependent scattering parameters for, (T), 22:44780
interactions p + p at 0 to 345 MeV, one-boson-exchange contributions to, (E/T), 21:935
interactions p + p at 0 to 400 MeV, determination of N—N scattering matrix from, 22:35003
interactions p + p at 0 to 400 MeV, one-boson-exchange model for elastic, (T), 21:19296 (UCRL-50001-66-1, pp 1-40)
interactions p + p at 0 to 750 MeV, listings of data for, 22:37161 (UCRL-50426)
interactions p + p at 0.5 to 39 GeV/c, model-independent determination of real parts of spin independence of forward amplitudes of, (T), 25:14731 (JINR-P2-5448)
interactions p + p at 0.5 to 39 GeV/c, model-independent determination of real parts of spin-independent amplitudes of forward, (T), 25:45773
interactions p + p at 0.5 to 70 GeV/c, compilation of cross sections, angular distributions, and polarizations for, (E), 25:19899 (UCRL-20000-NN)
interactions p + p at 0.75 to 2.84 GeV, polarization parameter in elastic, (E), 21:44269
interactions p + p at 0.75 to 2.84 GeV, polarization parameter in elastic, (E), 21:18893 (AD-635017)
interactions p + p at 0.75 to 2.84 GeV, scintillation counter study of polarization parameter for elastic, 21:33605
interactions p + p at 0.75 to 2.84 GeV, scintillation counter study of polarization parameter for elastic, 21:35258 (AD-650156)
interactions p + p at 0.86 to 2.74 GeV/c, polarization and differential cross sections for elastic, (E), 25:3262
interactions p + p at 0.97 GeV, phase-shift analysis of, 24:8680
interactions p + p at 1 GeV, differential cross sections for elastic, (E), 22:26831 (BNL-12344)
interactions p + p at 1 GeV, effect of s-state π—N interaction on partial-wave absorptions in, 22:32174
interactions p + p at 1 GeV, effects of s-state π + N interaction on partial-wave absorption in, (T), 22:7524 (ISS-67/25)
interactions p + p at 1 to 32 GeV/c, data compilation on elastic, 22:24538
interactions p + p at 1 to 450 MeV, scattering matrix from phase shift analysis of, 23:44671
interactions p + p at 1.29 to 1.69 GeV/c at small angles, ratio of real to imaginary part of spin independent forward amplitude of, (E), 24:51943
interactions p + p at 1.3 to 1.5 GeV/c, cross sections for forward elastic, (E), 22:29623
interactions p + p at 1.4 and 2.2 GeV, phase shift analysis and Regge-pole model for, 25:41025
interactions p + p at 1.4 GeV, phase-shift analysis of, 24:8681
interactions p + p at 1.5 to 3.5 GeV/c, differential cross sections for large-angle elastic, (E), 24:5238
interactions p + p at 1.54 and 1.69 GeV/c, sonic spark chamber study of spin-independent forward scattering amplitude in, 21:42260
interactions p + p at 1.55 to 2.9 GeV, Cherenkov and scintillation counter study of deuteron production from, (E), 22:3264
interactions p + p at 1.7 GeV, polarization in, (E), 21:23314 (BNL-994, pp 70-102)
interactions p + p at 1.7 GeV/c, N + N correlations in, (E/T), 22:5499 (INP-567/PL/PH)
interactions p + p at 1.9 GeV at 90°, Wolfenstein triple parameters for, (E), 24:6687
interactions p + p at 1.9 GeV, triple scattering parameters for, (E), 23:25522
interactions p + p at 10 and 15 MeV, polarization angular distribution in, (T), 23:3936
interactions p + p at 10 GeV in hydrogen bubble chamber, angular distributions for particles in showers and N^* production in, (E), 25:36393
interactions p + p at 10 GeV, (E), 25:19901 (USIP-70-7)
interactions p + p at 10 GeV, properties of energy-selected particles in inelastic, (E), 25:22694
interactions p + p at 10 GeV/c in hydrogen bubble chamber, baryon resonance production and cross sections in six-prong, (E), 25:19902 (USIP-70-8)
interactions p + p at 10 GeV/c in hydrogen bubble chamber, strange particle production from, (E), 21:44267
interactions p + p at 10 GeV/c, cross sections for elastic, (E), 23:3646
interactions p + p at 10 to 100 GeV/c in thermodynamic model, structure function for, (E/T), 25:50153
interactions p + p at 10 to 17.5 GeV, polarization parameter in elastic, (E), 25:56419
interactions p + p at 10 to 20 GeV in hydrogen bubble chamber, two-modal angular distribution of shower particles from, (E), 24:51938
interactions p + p at 10 to 24 GeV, energy dependence and angular distribution of elastic, (E), 25:25302
interactions p + p at 10 to 25 GeV/c, phase shift analysis and real amplitude of, 21:17137
interactions p + p at 10 to 26 GeV/c, production of 1.24-, 1.52-, and 1.69-GeV isobars in, (E), 21:37701
interactions p + p at 10 to 26 MeV, spin correlation parameters in, (E), 21:21414
interactions p + p at 10 to 30 GeV/c, cross sections and momentum transfer distributions in multiparticle production, (E), 24:24233
interactions p + p at 10 to 30 GeV/c, multi-Regge model for velocity weight function of thermodynamical model for secondary particle momentum spectra in, 24:37812
interactions p + p at 10 to 30 GeV/c, multiparticle production in, (E), 24:6685 (BNL-14126)
interactions p + p at 10 to 30 GeV/c, phenomenological analysis for highly inelastic, 21:33716
interactions p + p at 10 to 30 GeV/c, wire-plane spectrometer study of π and p spectra from, 21:33600
interactions p + p at 10 to 400 MeV, scattering matrix for elastic, 21:37846
interactions p + p at 100 keV to 1 GeV, bibliography on, (E/T), 22:52937 (LA-4002)
interactions p + p at 100 to 800 GeV, d^3p/E distribution predictions for angular distribution of charged secondaries in, (E/T), 24:49538
interactions p + p at 11 to 26 MeV, solid-state detector study of spin correlation parameters A/sub xx/ and A/sub yy/ from, (E), 21:29444
interactions p + p at 11 to 50 MeV, spin correlation parameters from, (E), 21:25229 (CEA-R-3193)
interactions p + p at 11.26 and 30.0 GeV/c, Serber model for analysis of, 21:19020
interactions p + p at 11.4 MeV using polarized beam and target, spin correlations of, 21:42259
interactions p + p at 11.4 MeV, asymmetry parameters for, (T), 21:18898 (SLAC-PUB-238)
interactions p + p at 12 and 30 GeV/c, Feynman scaling law for π^- productions in, 25:22674
interactions p + p at 12 to 30 GeV/c, multiperipheral-model analysis of meson (K^+, K^-, π^+, and π^-) and proton spectra from, (T), 25:45775
interactions p + p at 12 to 70 GeV, slope parameter of differential cross section of elastic, (E), 24:1513
interactions p + p at 12 to 70 GeV, slope parameter for differential cross section for, (E), 24:15472
interactions p + p at 12 to 70 GeV/c, hypothesis of limiting fragmentation for π and p production in, (E/T), 24:45545
interactions p + p at 12.2 GeV/c, differential cross sections for π production in, (E), 24:1509
interactions p + p at 12.2 to 30 GeV/c, eikonal model for π^+ production in, 24:28567
interactions p + p at 12.3 GeV/c, boson production in, (E), 21:9703
interactions p + p at 12.4 GeV/c, differential cross sections for p and π production in, (E), 25:7548
interactions p + p at 12.4 GeV/c, scintillation- and Cherenkov-counter spectrometer study of differential cross sections for deeply inelastic, (E), 24:8565
interactions p + p at 12.4 to 12.5 GeV/c, differential cross section for π, K, anti p, and p production in, (E), 25:17379
interactions p + p at 12.5 GeV/c at high transverse momenta, differential cross sections for meson (π) and (K) and proton production and angular distribution in fireball frame, (E), 24:15470
interactions p + p at 12.5 GeV/c, differential cross sections for π^+ and π^- production in, (E), 22:48219
interactions p + p at 12.5 GeV/c, differential cross sections for π, K, and anti p production in, (E), 22:20128
interactions p + p at 12.5 GeV/c, K, π, and anti p production in, (E), 22:39250 (CERN-68-7(Vol.2), pp 262-80)
interactions p + p at 12.5 GeV/c, model of diffraction scattering with π, K, and anti p production for, (E), 22:52932
interactions p + p at 12.5 GeV/c, spectrometer study of cross sections for anti p, K^-, K^+, π^-, and π^+ production from, 21:29440
interactions p + p at 12.5 to 70 GeV/c, thermodynamical model for π^+, π^-, and p production in, (E/T), 24:24404
interactions p + p at 13 to 28.5 GeV/c in hydrogen bubble chamber, cross sections and momentum distributions for π^- and π^+ production in, (E), 25:36391 (UCRL-20632)
interactions p + p at 13 to 28.5 GeV/c, momentum spectrum and cross sections for π^+ and π^- production in, (E), 24:1510

interactions p + p at 14.25 to 70 GeV/c, phenomenological study of inclusive single-particle spectra of π^-, π^+, K^-, K^+, anti p, and p in triple Regge limit for, (T), 25:59505 (JINR-E2-6031)
interactions p + p at 140 MeV, measurement of spin correlation parameter using polarized targets, (E), 21:21415
interactions p + p at 140 MeV, polarization in, (E), 21:21416
interactions p + p at 143 MeV using polarized beam and target, spin correlations of, 21:42259
interactions p + p at 143 MeV, differential cross sections and polarization in, (E), 22:24541
interactions p + p at 144 MeV differential cross sections and phase shifts for small-angle, (E), 25:53013
interactions p + p at 147 MeV, effective cross sections for, (E), 21:4058 (JINR-E1-2953)
interactions p + p at 147 MeV, phase analysis of, 21:40242
interactions p + p at 15 to 30 GeV/c, cross sections for elastic, (E), 24:21927
interactions p + p at 15 to 60 GeV/c, total cross sections for, (E), 25:53014
interactions p + p at 150 and 600 MeV, review of correlation and polarization measurements in, 21:37682
interactions p + p at 1500 GeV in CERN ISR, angular distribution of secondary particles from production in, 25:59277
interactions p + p at 16.9 GeV/c, fluctuations in angular distributions for elastic, (E), 21:2369
interactions p + p at 179 to 555 MeV, total cross sections for, (E), 25:33547
interactions p + p at 18.8 to 71 GeV/c, scaling law and empirical formulas for π, K, and anti p production in, (T), 24:51937
interactions p + p at 19 GeV/c in bubble chamber, particle multiplicities and momentum spectra in inelastic, (E), 25:22679
interactions p + p at 19 GeV/c in hydrogen bubble chamber, cross sections for inelastic, (E), 25:19902 (USIP-70-8)
interactions p + p at 19 GeV/c in hydrogen bubble chamber, total cross sections for two-prong, (E), 25:56417 (USIP-71-4)
interactions p + p at 19 GeV/c in hydrogen bubble chamber, computer program for automatic selection of kinematical hypotheses for two-prong, (T), 25:56523 (USIP-71-3)
interactions p + p at 19.2 and 21.1 GeV/c, cross sections and angular distributions in, (E), 23:3641
interactions p + p at 19.2 GeV/c, comparison of structure functions of inelastic e + p interactions and, 25:7541
interactions p + p at 19.2 GeV/c, spectrometer study of particle spectra from, (E), 24:35603 (CERN-70-12)
interactions p + p at 19.20 GeV/c, breaks in differential cross sections for, 25:56528
interactions p + p at 195 to 215 MeV, review of elastic, 21:37681
interactions p + p at 2 to 3 GeV/c, review of quasi-two-body final states and multiple particle production in, 22:32121
interactions p + p at 2 x 10^{10} to 6 x 10^{11} eV, effective cross sections for inelastic, (E), 24:21940
interactions p + p at 2.5 to 3.0 GeV, differential cross sections for K^+ production in, (E), 22:20132
interactions p + p at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions p + p at 2.8 to 7.8 GeV/c, N^* production from, (E), 21:33599 (RHEL/R-144, pp 15-40)
interactions p + p at 2.85 and 2.40 GeV, K^+ production in, (E), 22:26558
interactions p + p at 2.85 to 7.88 GeV/c, cross sections for $\Delta(1236)$, $N^*(1410)$, N(1518), and N(1688) production in, (E), 23:49047
interactions p + p at 20 and 300 GeV/c, thermodynamic model for angular distribution of π^- production in, 25:9787
interactions p + p at 20 GeV in emulsions, absorption mean free paths for inelastic, (E), 22:29621
interactions p + p at 20 GeV in thick nuclear emulsions, multiple meson production in, (E), 22:1383
interactions p + p at 20 GeV, secondary particle production in, (E), 22:22300
interactions p + p at 20 MeV, polarization asymmetry in, (E), 22:20438
interactions p + p at 20 MeV, polarization in, 22:50412
interactions p + p at 20 to 120 MeV, differential cross section for electron-pair production in, (T), 25:12231
interactions p + p at 20 to 200 MeV, deuteron quadrupole moment from potential, 24:18114 (ITF-69-92)
interactions p + p at 20 to 500 GeV in thermodynamic model, scaling behavior of π^- and p spectra from inclusive, (E/T), 25:50153
interactions p + p at 20 to 600 GeV in space, effective cross sections of inelastic, (E), 24:30444
interactions p + p at 200 GeV, empirical estimation of fluxes of secondary particles from, 24:51923 (TID-25473(Vol.1), pp 397-401)
interactions p + p at 200 GeV/c, proposals for polarization measurements in elastic scattering, 24:51927 (TID-25473(Vol.3), pp 141-4)
interactions p + p at 200 to 500 GeV in hydrogen bubble chamber, proposal for experiment on, 24:37619 (COO-1428-212)
interactions p + p at 200 to 500 GeV/c, asymptotic behavior of particle distributions in, 25:30908
interactions p + p at 204 MeV, bremsstrahlung production cross sections and upper limit for resonance production in, (E), 21:15265
interactions p + p at 210 and 330 MeV, optimized polynomial representations for phase shifts and differential cross sections for coupling constants and nonspinflip amplitudes of, (T), 25:36532
interactions p + p at 210 MeV, phase shift analysis for, 21:35316 (JINR-E2-3345)
interactions p + p at 210 MeV, upper limits for two parity-violating parameters from asymmetry in, (E), 25:12094
interactions p + p at 213 MeV, cross section and polarization from, (E), 21:872
interactions p + p at 213 MeV, differential cross section and polarization from, (E), 21:15264
interactions p + p at 23 to 630 MeV, amplitudes with and without Coulomb interactions for elastic, 21:33720
interactions p + p at 24 GeV/c, evaluation of triple-Pomeranchukon vertex as function of t from proton production in, (E/T), 25:50159
interactions p + p at 24 GeV/c, isobar production effects on π and p transverse momentum from, (T), 22:13768
interactions p + p at 24 GeV/c, pion and proton energy spectra for, review of, 23:18795 (CONF-671217-, pp 589-695)
interactions p + p at 24 to 70 GeV, unitarity model of Regge cuts for cross sections of, 24:37805 (RLO-1388-571)
interactions p + p at 25 to 50 MeV, Kantor amplitudes for $^3P_0$ phase shift for, (E/T), 25:28046
interactions p + p at 25 to 65 GeV, exotic trajectories for energy dependence of cross sections for, 25:33741
interactions p + p at 250 GeV/c, angular distribution from scaling hypothesis for π production in inclusive, (E/T), 24:51987
interactions p + p at 26.5, 37.2, and 46.9 MeV, spin correlation parameters for scattering, (E), 25:53644
interactions p + p at 27 MeV, spin correlation in, (E), 21:11991(R) (UCOL-535-561)
interactions p + p at 28 + 28 GeV, schematic predictions for inelastic, 24:20138
interactions p + p at 28.5 GeV/c in bubble chamber, factorization in inclusive processes from single-particle momentum distributions of π produced in, (E), 25:43554 (UR-875-340)
interactions p + p at 28.5 GeV/c in hydrogen bubble chamber, $\Delta^{++}(1236)$ and $N\pi(1400)$ enhancement production in two- and four-charged-prong, (E), 25:12091
interactions p + p at 28.5 GeV/c in hydrogen bubble chamber, resonance production in two- and four-prong final states from, (E), 22:7434 (BNL-11980)
interactions p + p at 28.5 GeV/c, Poisson distribution for meson multiplicity in, 25:25448
interactions p + p at 28.5 GeV/c, π^- momentum distributions in, (E), 25:38670
interactions p + p at 28.6 GeV/c in hydrogen bubble chamber, resonance production in high-multiplicity, (E), 22:15670 (BNL-11993)
interactions p + p at 3 GeV, real part of amplitude from differential cross sections for elastic, (E), 22:1380
interactions p + p at 3 GeV/c, total cross sections for, (E), 24:37635
interactions p + p at 3 GeV/c, total cross sections for, (E), 24:37629
interactions p + p at 3 to 7 GeV/c, N^* production from, (E), 21:18899 (UCRL-17257)
interactions p + p at 3.2 and 10 MeV, calculation of bremsstrahlung cross section using on-energy-shell approximation, (T), 23:5949
interactions p + p at 30 and 45 GeV, diffraction slope parameter for small-angle elastic, (E), 25:38650
interactions p + p at 30 and 48 MeV, noncoplanar bremsstrahlung calculations for, (T), 23:42649
interactions p + p at 30 GeV, cross section for elastic, (E), 25:38651
interactions p + p at 30 GeV/c, fireball model with double Regge pole exchange for multiple meson production in, (E/T), 24:40428
interactions p + p at 30 to 70 GeV, slope parameter, differential cross sections, and forward amplitude for elastic, (E), 25:50064
interactions p + p at 30 to 700 GeV, proposed experiment using primary cosmic protons, 21:18902
interactions p + p at 30, 42, and 48.8 MeV, polarization in scattering, (E), 25:53533
interactions p + p at 300 to 640 MeV, production of nonstrange $2^+(2050)$ resonance in, (T), 25:5388 (JINR-P2-5058)
interactions p + p at 300 to 640 MeV, strong absorption and pp(2050) resonance in, (T), 25:17518
interactions p + p at 305 to 415 MeV, spin—spin correlation parameter from, (E), 21:37686
interactions p + p at 305 to 415 MeV, spin—spin correlation parameters for, 22:44457
interactions p + p at 31 to 53 GeV, slope parameter for colliding-beam elastic, (E), 25:56420
interactions p + p at 310 to 700 MeV, polarization parameter for, (E), 22:5503
interactions p + p at 34 and 46 MeV, bremsstrahlung production cross sections for, (E), 22:20131
interactions p + p at 350 to 635 MeV, method for measuring, 21:21322 (JINR-P1-3189)
interactions p + p at 350 to 750 MeV, determination of N—N scattering matrix from, 22:35014
interactions p + p at 37 MeV, spin correlation coefficients in scattering, (E), 25:5506 (CEA-N-1232, pp 81-159)
interactions p + p at 37.2 MeV, spin-correlation parameters for, (E), 24:24226
interactions p + p at 380 to 437 MeV, unambiguous phase shift analysis and phase shift energy dependence for, 22:20271 (JINR-E1-3707)
interactions p + p at 4 GeV/c, production cross sections for multiple pions and baryon and boson resonances in, (E), 23:3640
interactions p + p at 4 to 36 GeV, quark model for multiple π production in, 25:56514
interactions p + p at 4.0 BeV, differential scattering cross sections for, (E), 21:883
interactions p + p at 4.2 to 10 MeV, $^1S_0$ shape-dependent scattering parameters from, (E), 21:29969(R) (UCRL-17299)
interactions p + p at 40 to 80 GeV, statistical model for momentum and angular spectra for multiple particle production from, 21:37833 (JINR-P2-3358)
interactions p + p at 430 MeV, test of T invariance in triplet-scattering, (E), 21:44421
interactions p + p at 430 MeV, test of time reversal invariance in triple-scattering, (E), 22:52935
interactions p + p at 430 MeV, triple-scattering parameters and polarization in, (E), 22:34843
interactions p + p at 48 MeV using polarized beams, spin correlation parameters for, (E), 24:20272(R) (NP-18091)
interactions p + p at 48 MeV, spin correlation parameters for scattering, (E), 24:15788
interactions p + p at 49.4 MeV, differential cross sections for, (E), 21:27519
interactions p + p at 5 GeV/c, isobar production mechanisms in, (E), 21:2365 (PPAD-600-F)
interactions p + p at 5 to 13.4 GeV/c, hadronic structure from, (T), 21:33717
interactions p + p at 5 to 20 GeV/c, impact-parameter representation for amplitudes of, 21:40237
interactions p + p at 5 to 21 GeV/c, proton substructure model for analysis of differential cross sections for, (E/T), 23:16969
interactions p + p at 5 to 30 GeV, review of bubble chamber, counter—spark chamber, and theoretical results for, 22:22297 (BNL-12232)
interactions p + p at 5 to 30 GeV/c, forward spin-independent amplitudes and dispersion relations for, (T), 24:5308
interactions p + p at 5 to 31 GeV in OBE model, differential cross section, polarization, and forward amplitude for, 25:3418
interactions p + p at 5 to 31 GeV/c, proton-substructure model for analysis of differential cross sections for elastic, 24:8671
interactions p + p at 5.0 to 13.4 GeV/c at 90°, differential cross section for elastic, (E), 21:37675
interactions p + p at 5.0 to 13.4 GeV/c, proton structure determination from elastic, (E), 21:2366
interactions p + p at 5.0 to 13.4 GeV/c, scintillation counter study of proton structure from elastic, 21:35260
interactions p + p at 5.4 and 6.6 GeV/c in hydrogen bubble chamber, proton momentum spectrum for K and π production in inelastic, (E), 24:37633
interactions p + p at 5.4 and 6.6 GeV/c in hydrogen bubble chamber, strange particle production in, (E), 24:6725
interactions p + p at 5.5 GeV/c, cross sections for N^* production in, (E), 21:18904
interactions p + p at 50 and 140 MeV, phase-shift analysis of elastic, 21:37691
interactions p + p at 50 MeV, bremsstrahlung production in, (E), 21:38224
interactions p + p at 50 MeV, differential cross sections for, (E), 21:37687
interactions p + p at 50 MeV, double-focusing magnetic spectrometer study of differential cross section for, 21:33808 (RHEL/R-129, pp 97-106)
interactions p + p at 50 MeV, phase shifts for, (E/T), 21:27629
interactions p + p at 50 MeV, phase shifts for, (E/T), 22:13650
interactions p + p at 50 MeV, phase-shift analysis of, (E/T), 22:27280
interactions p + p at 50 MeV, spin correlation parameters for, (E), 22:26806
interactions p + p at 50 MeV, spin correlation parameters for, (E), 21:42613(R) (NP-16992)
interactions p + p at 50 to 1000 MeV, phenomenological analysis of, (T), 25:22853
interactions p + p at 50 to 150 MeV, cross sections for bremsstrahlung production in, 22:9627
interactions p + p at 50 to 635 MeV, T-invariance violation of, 25:33773
interactions p + p at 500 to 1200 MeV, polarization and spin correlation parameters in elastic, (E), 22:11584
interactions p + p at 500 to 1400 GeV, diffraction slope parameter for small-angle elastic, (E), 25:53015
interactions p + p at 500 to 1500 GeV, differential cross section for inelastic, (E), 25:40870
interactions p + p at 51.1 and 61.8 MeV, bremsstrahlung production cross sections for, (E), 21:33872(R) (ORNL-4122)
interactions p + p at 510 to 670 MeV, spark chamber spectrometer study of Wolfenstein triple scattering parameters for, (E), 25:36397
interactions p + p at 510 to 670 MeV, Wolfenstein triple scattering parameters for, (E), 24:30441 (UCRL-19705)
interactions p + p at 52 MeV, differential cross section for, (E), 22:26805
interactions p + p at 52.3 MeV, differential cross section and phase shift analysis for, 21:37690
interactions p + p at 52.34 MeV, differential cross sections for, (E), 22:24540
interactions p + p at 52.34 MeV, differential cross sections for, (E), 22:13649
interactions p + p at 52.34 MeV, differential cross sections for, (E), 21:42613(R) (NP-16992)
interactions p + p at 52.34 MeV, measurement of differential cross sections of, (E), 22:2420
interactions p + p at 520 to 670 MeV at 30 to 120°, Wolfenstein depolarization parameter for, (E), 25:19904
interactions p + p at 6 GeV, interference of Coulomb and nuclear scattering amplitudes in, (E), 21:17040
interactions p + p at 6 GeV/c, resonance production and cross sections in four-body strange particle production in, (E), 23:10746 (UCRL-18306)
interactions p + p at 6 to 10 MeV, angular distributions for elastic, (E), 22:53087

interactions p + p at 6 to 10 MeV, phase-shift analysis of differential cross sections for, 23:25521
interactions p + p at 6 to 30 GeV/c, structure functions for, (T), 25:50155
interactions p + p at 6, 8, and 10 MeV, phase-shift analysis of, (E), 21:1016 (UCRL-16991)
interactions p + p at 6.0 to 12.0 GeV/c, polarization parameter for elastic, (E), 21:9711
interactions p + p at 6.6 BeV/c, N^{*++} production in, (E) , 21:874
interactions p + p at 6.8 to 24.6 GeV/c, diffraction-model calculations of cross sections for, (E/T), 24:8667
interactions p + p at 6.92 GeV/c in bubble chamber, partial cross sections for neutral strange particle production in, (E), 22:15673
interactions p + p at 6.92 GeV/c, angular distributions and cross sections Δ(1236), N(1525), and ω production in, (E), 25:22673
interactions p + p at 6.92 GeV/c, cross sections for elastic, (E), 22:50292
interactions p + p at 600 MeV in spark chambers, triple scattering parameter and phase shift analysis for, 21:18896 (JINR-P1-3167)
interactions p + p at 600 MeV, scintillation counter study of differential cross sections for mesons (π^-) and (π^+) production in, (E), 23:51856 (CERN-69-24)
interactions p + p at 600 MeV, using polarized targets, (E), 21:21417
interactions p + p at 600 to 1800 MeV/c, differential cross sections for elastic, (E), 25:14543
interactions p + p at 600 to 650 MeV, review of phase shift analysis for, 21:37680
interactions p + p at 605 MeV spark chamber and scintillation counter study of R parameter and phase shift analysis for triple, (E), 22:5505
interactions p + p at 605 MeV, spin correlation for elastic, (E), 21:17038
interactions p + p at 635 MeV at 34 to 117°, T-odd amplitude and noninvariant phase in time reversal invariance test for, (E), 24:10805
interactions p + p at 635 MeV, angular dependence of depolarization parameter for, (E), 23:42689 (JINR-P1-4536)
interactions p + p at 635 MeV, angular dependence of depolarization parameter in, (E), 24:20073
interactions p + p at 635 MeV, asymmetry in elastic, (E), 21:23306 (JINR-E1-3194)
interactions p + p at 635 MeV, phase-shift analysis and meson production cross sections for, (E/T), 23:8727 (JINR-P1-4155)
interactions p + p at 640 MeV, phase shift analysis with total cross sections and π angular distributions for, 24:21996
interactions p + p at 650 to 660 MeV, meson (π) production data for resonance model analysis for absorption coefficients of inelastic and elastic, 24:3703
interactions p + p at 657 MeV, phase shift analysis with one-boson exchange and relativistic Coulomb effects for elastic, 21:11778
interactions p + p at 660 MeV in polarized targets of magnesium lanthanum nitrate, elastic and quasi-elastic, (E), 22:24532 (JINR-E1-3708)
interactions p + p at 660 MeV on polarized target using optical spark chamber, double elastic, (E), 23:18801
interactions p + p at 660 MeV using polarized targets of lanthanum magnesium nitrate, determination of quasielastic events in, (E), 22:37077
interactions p + p at 670 to 1400 MeV, one-boson-exchange models for, 25:56532
interactions p + p at 680 MeV, spin-correlation parameter in elastic, (E), 21:15260
interactions p + p at 7 to 15 GeV/c, analysis of two-body and quasi two-body, 23:39691
interactions p + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions p + p at 7 to 20 GeV/c, differential cross sections for elastic, (E/T), 22:46430
interactions p + p at 70, 200, and 1600 GeV, predictions of proton-substructure model for, 24:8671
interactions p + p at 735 MeV, phase shift analysis of elastic, 24:3702
interactions p + p at 8 GeV/c in hydrogen bubble chamber, strange particle production from, 21:33607
interactions p + p at 8 GeV/c, cross sections for strange-particle production in, (E), 22:46327
interactions p + p at 8 GeV/c, multiparticle production in, (E/T), 24:21981
interactions p + p at 8 GeV/c, strange particle production from, (E), 21:17032 (COO-1195-86)
interactions p + p at 8 GeV/c, three- and four-body strange particle final states from, (E/T), 21:17030 (COO-1195-72)
interactions p + p at 8 to 11 GeV/c, baryon—antibaryon pair production in large-angle, (E/T), 21:42390
interactions p + p at 8 to 21 GeV/c, discontinuous behavior of angular distributions of elastic, 21:37679
interactions p + p at 8 to 21 GeV/c, hadronic distributions of protons in optical-model description of, 23:23502
interactions p + p at 8 to 26 GeV/c, Cherenkov counter study of cross sections for, (E), 21:44262
interactions p + p at 8 to 26 GeV/c, dispersion relations and asymptotic predictions for forward amplitudes of, (E), 21:25234 (BNL-11175)
interactions p + p at 8 to 340 MeV, phenomenological phase-parameter multiple energy fits for, 21:37847
interactions p + p at 8.1 GeV/c, cross sections for isobar production and elastic, (E), 24:3517
interactions p + p at 8.1 to 12.1 GeV/c, differential cross sections for large-angle elastic, (T), 23:25653
interactions p + p at 9 to 330 MeV, models and phase-shift representations for, (T), 21:38416
interactions p + p at 9.6 to 19.7 MeV, high-precision measurement of polarization asymmetry for, 21:42258
interactions p + p at 9.690, 9.918, and 13.600 MeV, differential cross sections for elastic, (E), 24:40270
interactions p + p at 9.7 and 18.2 MeV, phase shift analysis of, 21:3978 (JINR-E1-2969)
interactions p + p at 9.7 MeV, scattering parameters for, (E), 21:46665
interactions p + p at 9.7 to 18.2 MeV, phase-shift analysis for, 21:37848
interactions p + p at 90 to 800 GeV, spark-chamber—ionization-calorimeter study of charged-particle multiplicities in, (E), 25:9638
interactions p + p at 90°, single Regge-pole fit to differential cross section for elastic, 22:35024
interactions p + p at 95 MeV, phase shift analysis of, (E/T), 23:23499
interactions p + p at 970 MeV, one-boson-exchange model for meson (π) production from, 21:25319
interactions p + p at 970 MeV, phenomenological analysis for, 21:37861
interactions p + p at 98 MeV, cross section and polarization in, (E), 22:35285(R) (AERE-PR/NP-13)
interactions p + p at 98 MeV, differential cross sections and polarization for, (E), 22:37285
interactions p + p at 991 MeV, angular distributions and cross sections for elastic and quasi-elastic, (E), 21:27302
interactions p + p at BeV energies, deuteron production in, (T), 22:11248
interactions p + p at high energies, 22:3371
interactions p + p at high energies and large angles, Regge cut as optical potential in, 24:21995
interactions p + p at high energies and large angles, differential cross section for singular potential, 23:27878
interactions p + p at high energies and large angles, incoherent droplet model for elastic, 23:32769
interactions p + p at high energies and large momentum transfer, model for elastic, 21:7507
interactions p + p at high energies and large momentum transfer, (T), 22:1457
interactions p + p at high energies and large momentum transfers, contribution of π Regge trajectory to, 22:46472
interactions p + p at high energies and large momentum transfer, narrow dips in cross sections for, 22:32175
interactions p + p at high energies at 60 and 90°, optical model for interaction energy and repulsive core effects in, 23:49171 (AD-690395)
interactions p + p at high energies in bremsstrahlung model, cross sections for elastic, 24:10780
interactions p + p at high energies in O(3,1) symmetry, analysis of differential cross sections and polarization for elastic, 23:42711
interactions p + p at high energies using polarized targets, review of, (E), 21:23308 (UCRL-17433)
interactions p + p at high energies, (E), 21:33806 (RHEL/R-129, pp 11-44)
interactions p + p at high energies, 36-plet 2^+ meson exchange for total cross section for, 22:5626
interactions p + p at high energies, analysis of differential and total cross section data for, 25:3411
interactions p + p at high energies, analysis of hard-core and soft-core repulsive force in elastic, 22:13773
interactions p + p at high energies, angular distribution of elastic, (T), 22:9620
interactions p + p at high energies, atlas of hadron momentum spectra from, (T), 25:20028
interactions p + p at high energies, Bethe—Salpeter equation for fireball production in inelastic, 25:5359
interactions p + p at high energies, bilocal-field-exchange model for, (T), 24:52144
interactions p + p at high energies, bootstrap predictions for crossing-symmetric amplitudes for wide-angle, 24:3697
interactions p + p at high energies, bremsstrahlung model for, (E/T), 24:24400
interactions p + p at high energies, charge-conservation model for multiple hadron production in, (T), 25:59512
interactions p + p at high energies, charge-exchange and quasi-elastic, (T), 21:13699
interactions p + p at high energies, comparison of cross sections for strong and electromagnetic, (T), 22:39324
interactions p + p at high energies, comparison of Regge pole results with data for, (E/T), 23:39723(T) (NP-tr-1826)
interactions p + p at high energies, comparison of finitely and infinitely composite models for, 24:3691
interactions p + p at high energies, compilation of cross sections for, (E), 25:17369 (CERN-HERA-70-2)
interactions p + p at high energies, composite structure of proton from multiple scattering mechanism of elastic, (T), 23:44672
interactions p + p at high energies, computer program for calculating particle spectra from, 23:16967 (N-68-33548)
interactions p + p at high energies, contribution of Regge cut to cross sections for elastic, (E/T), 24:45517
interactions p + p at high energies, correlation of p electromagnetic form factor with, 23:18927
interactions p + p at high energies, Coulomb interference in elastic, 21:42367
interactions p + p at high energies, cross sections for elastic, (E), 22:17858
interactions p + p at high energies, cross sections for μ pair production in two different types of, (T), 25:12229
interactions p + p at high energies, cross section for elastic, (T), 22:32173
interactions p + p at high energies, current developments on, 21:46546
interactions p + p at high energies, differential cross sections for, (T), 23:1647 (JINR-D1-4001)
interactions p + p at high energies, diffraction model for, 24:18226
interactions p + p at high energies, diffraction model for asymptotic limit of cross section for, 22:20279
interactions p + p at high energies, dispersion model for, 21:31642
interactions p + p at high energies, dispersion relation calculation of real part of forward amplitude for, 22:48309
interactions p + p at high energies, double scattering contribution to differential cross sections in quark model for, 21:31609
interactions p + p at high energies, Drell—Hiida model for bump in πN invariant mass spectrum from, 24:18192
interactions p + p at high energies, Drell-Huedo model for explanation of angle and energy dependence of 1.40-GeV maximum in, 21:7518 (BNL-9600)
interactions p + p at high energies, duality for large-angle, 25:50131
interactions p + p at high energies, effective Lagrangians for, 23:15077
interactions p + p at high energies, eikonal approximation for, 23:15014
interactions p + p at high energies, eikonal model for large-angle elastic, 24:49534
interactions p + p at high energies, eikonal model including spin effects for, 23:44677
interactions p + p at high energies, experimental test of Pomeranchuk theorem in, 25:59424
interactions p + p at high energies, field-theoretic model of elastic, 23:25656
interactions p + p at high energies, form factors in model for amplitude of inelastic, (T), 25:14729 (INR-P-1229)
interactions p + p at high energies, Gaussian interaction probability density for inelastic, 22:39422 (COO-1112-154)
interactions p + p at high energies, Hagedorn thermodynamic model for analysis of π and rho angular distribution from, 24:20182
interactions p + p at high energies, Hamiltonian model for, 25:45774
interactions p + p at high energies, helicity amplitudes and polarization in elastic, 23:21131
interactions p + p at high energies, hybrid model in Regge pole theory for, 23:10829
interactions p + p at high energies, impact-parameter representation for large-angle, 23:5643
interactions p + p at high energies, incoherent droplet model for multiparticle production in, 21:29518
interactions p + p at high energies, inelastic diffractive, 24:24251
interactions p + p at high energies, isobar production effects on charge ratio of π, K, and Σ from, (T), 22:13768
interactions p + p at high energies, kinematic variable for, 24:20165
interactions p + p at high energies, large-momentum-transfer p and π production in, (T), 24:37746
interactions p + p at high energies, lower bound on cross section for pair production in, 25:45771
interactions p + p at high energies, lower bound on differential cross section for W^+ and W^- production in, 25:30907
interactions p + p at high energies, Mandelstam branch points for large-momentum-transfer, 21:25320
interactions p + p at high energies, model for diffraction peak shrinkage in elastic, 21:35314 (COO-1112-104)
interactions p + p at high energies, model for elastic, (T) , 23:27808
interactions p + p at high energies, model for inelastic intermediate states for small-angle elastic diffraction, 24:3695
interactions p + p at high energies, multi-Regge model for double differential cross section for inelastic, 23:34604
interactions p + p at high energies, multi-Regge model for uncorrelated particle production from, 22:13772 (UCRL-17980)
interactions p + p at high energies, multichannel approach in one-boson-exchange model for, 24:49539
interactions p + p at high energies, multiperipheral model for asymptotic single particle distributions for π and N in, (T), 25:7684 (RLO-1388-585)
interactions p + p at high energies, multiple particle production in, 21:7502
interactions p + p at high energies, multiple scattering mechanism in quark model for analysis of elastic, 24:8644
interactions p + p at high energies, multiple-scattering corrections to Pomeranchuk on exchange in elastic, 22:46397
interactions p + p at high energies, nucleon structure from, (T), 21:21258
interactions p + p at high energies, O(4,2) model of baryons for, 22:46466
interactions p + p at high energies, one-photon-exchange contribution to cross sections of inelastic, (T), 25:22825
interactions p + p at high energies, optical model for S-matrix approach to elastic, 23:23504
interactions p + p at high energies, optical potential for amplitudes of elastic, 21:15417
interactions p + p at high energies, optical—Regge model for small-angle elastic, 23:1653
interactions p + p at high energies, oscillations of cross sections for elastic, 23:25646
interactions p + p at high energies, partial wave analysis of, 21:33715
interactions p + p at high energies, parton model for, (T), 25:7604
interactions p + p at high energies, phase shifts for elastic, (E/T), 21:2455
interactions p + p at high energies, phase shifts for, 22:13869
interactions p + p at high energies, phenomenological description of elastic, 22:50468

interactions p + p at high energies, phenomenological methods and correlations for, 23:30768
interactions p + p at high energies, plot of elastic, 22:3457
interactions p + p at high energies, polarization effects in, (T), 24:20178
interactions p + p at high energies, proposed experiment for measurement of polarization effects in, 23:42691
interactions p + p at high energies, proposed experiment for search for 1/3 and 2/3 integral charge quarks from, 24:51936 (TID-25473(Vol.4), pp 319-24)
interactions p + p at high energies, proton magnetic form factor and vector-meson—nucleon form factor from, 23:23503
interactions p + p at high energies, quark coupling in model for, 22:37202 (UCRL-18251)
interactions p + p at high energies, quark model for large-angle elastic, 22:46389
interactions p + p at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions p + p at high energies, quasipotential equation for N(1470) and N(1688) production in, 23:44668 (IC-69/87)
interactions p + p at high energies, Regge behavior at large angles and the Dolen—Horn—Schmid duality in elastic, (T), 23:8816
interactions p + p at high energies, Regge poles for large coupling constants for amplitudes of forward, (T), 25:53036 (DESY-71/31)
interactions p + p at high energies, Regge-pole amplitudes for analysis of differential cross sections for, 23:27799
interactions p + p at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions p + p at high energies, Regge-pole model for elastic, (T), 25:9813
interactions p + p at high energies, Regge-pole model of elastic large-angle, 24:18228
interactions p + p at high energies, Regge-pole theory of elastic and charge-exchange, 21:25317
interactions p + p at high energies, relation between transverse momentum dependence of multipion production and elastic, (T), 22:15792
interactions p + p at high energies, relation between zeros of scattering amplitudes and polarization in, 23:34609
interactions p + p at high energies, relation between phenomenological fits for, 22:46471
interactions p + p at high energies, relation between deep inelastic e + p interactions and inelastic, 25:9805
interactions p + p at high energies, review of diffraction models for, (T), 25:5347 (CONF-700314-, Paper 13)
interactions p + p at high energies, review of single particle distributions in, (E), 24:24224 (ANL/HEP-6909, pp 114-49)
interactions p + p at high energies, role of Regge cuts and poles in, 25:45738
interactions p + p at high energies, sakaton rearrangement model for, 25:12186
interactions p + p at high energies, scaling behavior for π production in, (E/T), 25:7683 (RLO-1388-583)
interactions p + p at high energies, self-consistent multiple-quark-scattering analysis of, 23:36959
interactions p + p at high energies, small distance phenomena in models for, 24:21990 (BNL-50210)
interactions p + p at high energies, statistical potential model for forward and large-angle, 21:25356
interactions p + p at high energies, structure of large-momentum-transfer, 22:13779
interactions p + p at high energies, sum rule for relation between total cross sections and slope of ln(dsigma/dt) for, (T), 24:49546
interactions p + p at high energies, theory of polarizations for elastic, 23:18924
interactions p + p at high energies, thermodynamic model for momentum spectra of particles produced in, 23:8796
interactions p + p at high energies, total cross sections for, (E), 22:22299
interactions p + p at high energies, transverse momentum distribution of protons from, 21:21204
interactions p + p at high energies, two vertex model for, 25:47899
interactions p + p at high energies, two-temperature statistical model for particle spectra from, 24:35665
interactions p + p at high energies, two-temperature statistical model for spectra from, 24:6729 (AD-691488)
interactions p + p at high energies, two-temperature statistical model for secondary particle spectra from, 23:7156
interactions p + p at high energies, velocity weight function of thermodynamical and multi-Regge models for particle spectra from, (T), 25:7682 (NP-18551)
interactions p + p at high energies, Veneziano—Pomeron model for cross sections and polarizations for elastic, (E/T), 24:26449
interactions p + p at high energies, vertex function for exponential decrease of differential cross sections for large-angle, 23:46846
interactions p + p at high momentum transfer, field-theoretic bootstrap of vertex function for elastic, 24:3589
interactions p + p at high momentum transfers, analysis of elastic, 21:27383
interactions p + p at interference minimum, review of absolute velocity gauge technique for, 23:25518
interactions p + p at intermediate energies, review of amplitudes for, 21:37683
interactions p + p at large angles and large momentum transfer, differential cross section behavior of, 23:15127
interactions p + p at large angles, fifth interaction hypothesis for, 22:46468
interactions p + p at large momentum transfer in Regge pole theory, 23:15156
interactions p + p at large momentum transfer, consistency conditions for, 24:28566
interactions p + p at large momentum transfer, Regge theory for high-energy, 22:15816
interactions p + p at large momentum transfers, parameters for elastic, (E/T), 25:53231
interactions p + p at low energies, Coulomb effect on parameters for, (T), 25:12680
interactions p + p at low energies, effects of an extended charge distribution on, (T), 21:12084 (UCRL-16322)
interactions p + p at low energies, p-wave phase shifts for, (T), 24:6715
interactions p + p at low energies, relativistic scattering theory for elastic, (T), 23:5699
interactions p + p at low energies, review of, 21:37850
interactions p + p at low energies, s-wave phase-shift measurement for, (E/T), 21:38234 (LA-DC-8856)
interactions p + p at low energies, separable potentials for, (T), 25:56531
interactions p + p at low energies, separable potential for effective range formulas for, 24:20174 (SU-1206-214)
interactions p + p at low energies, soft core and velocity-dependent potentials for $^1S_0$, 22:30079
interactions p + p at low energies, target-to-detector transport code for vacuum polarization and bremsstrahlung measurements for, 24:30440 (LA-4274)
interactions p + p at low energies, test of local hidden-variable theory from, 25:53235
interactions p + p at low energy, effects of vacuum polarization on s-wave, (T), 22:22545
interactions p + p at low energy, soft-core potential for off-shell $^1S_0$, (T), 21:31700 (LA-3706)
interactions p + p at low energy, spin correlation parameters for, (E), 22:20130
interactions p + p at low energy, vacuum polarization and Coulomb interference effects in scattering, (T), 24:3967
interactions p + p at medium energies, use of carbon-hydrogen polarized targets for, 21:3984
interactions p + p at small momentum transfer, Regge-pole model for elastic, 22:15779
interactions p + p at superhigh energies, isobar-pionization model for diffraction peak in elastic, 24:40427
interactions p + p at ultrahigh energies, models for quark production cross sections from, (T), 25:9811
interactions p + p at very high energies and high momentum transfers, secondary production in, (E/T), 25:5281 (CONF-700314-, Paper 15)
interactions p + p at very high energies in massive electrodynamics, 24:49536
interactions p + p at very high energies, composite particle model for, 23:44669 (INP-678)
interactions p + p at very high energies, unitary symmetry tests from large-angle elastic, 21:25325
interactions p + p below 10 GeV/c, peripheral, 21:31579
interactions p + p below 27.6 MeV, S- and P-wave effective range parameters for, 24:15606
interactions p + p below 30 MeV, two-parameter description of ^3P phase shifts for n + n scattering length from comprehensive analysis of, (T), 25:9814
interactions p + p below 300 MeV, bounds for correction to Born term for generalized dispersion model for, 22:37163
interactions p + p below 300 MeV, meson—nucleon coupling constants from, 21:37857
interactions p + p below 350 MeV, boundary condition model interaction for, 21:37853
interactions p + p below 350 MeV, phase shift analysis of, (T), 25:14734
interactions p + p below 350 MeV, potential consistent with boson exchange theory of nuclear forces for, 22:44451
interactions p + p below 350 MeV, unitary corrections and four-pole fit to peripheral, 21:9811
interactions p + p below 400 MeV, one-meson-exchange contributions to, (T), 24:40412
interactions p + p below 500 MeV, form-free semiphenomenological error-bounded potential representation for, 24:5318 (UCRL-50706)
interactions p + p below 500 MeV, form-free semiphenomenological error-bounded potential representation of, (T), 25:14746
interactions p + p below 56 GeV, proposed experiments for, 25:5444 (CONF-700314-, Paper 2)
interactions p + p below 800 GeV/c, atlas of particle-production momentum spectra for, (T), 25:14733 (NP-18660)
interactions p + p below threshold to 72 GeV, multiplicity distribution of charged secondaries from, 23:32619
interactions p + p in carbon-12 (p,2p) reactions, local and nonlocal effective, (T), 22:27243
interactions p + p in colliding beams at CERN ISR, (E), 24:18314 (CERN-69-29, pp 97-122)
interactions p + p in d + p $\rightarrow$ p + p + n at 52 MeV, time-of-flight study of singlet scattering length from final-state, (E), 24:3508 (KFK-1012)
interactions p + p in deuterium (He-3,t) and helium-3(d,t) reactions at 21 MeV, final-state, (E), 21:29450
interactions p + p in deuterium (He-3,t), helium-3 (d,t), helium-3 (He-3,He-4), and hydrogen (He-3,d) reactions, final-state, (E), 21:46661 (ORNL-TM-1914)
interactions p + p in deuterium (He-3,t), helium-3 (d,t), helium-3 (He-3,α), and hydrogen (He-3,d) reactions, final-state, (E), 22:29901
interactions p + p in deuterium (p,2p) and helium-3 (p,d) reactions, final-state, (E), 22:26810
interactions p + p in deuterium (p,n) reactions, final-state, 22:26807
interactions p + p in Glauber quark model, cross sections for elastic, 24:15550
interactions p + p in helium (d,2p) reactions, final-state, (E), 22:1733
interactions p + p in helium-3 (He-3,2p) reactions, final-state, (E), 23:1784
interactions p + p in helium-3 (p,d) reactions, final-state, (E), 23:1785
interactions p + p in helium-3 (p,d) reactions, final-state, (E), 23:10928 (UCLA-10-P-18-10)
interactions p + p in helium-3 (p,pd) reactions, final-state, (E), 23:7219
interactions p + p in hydrogen (He-3,d) reactions, final-state, (E), 21:33872(R) (ORNL-4122)
interactions p + p in inelastic p - d scattering, quasielastic, (T), 21:25422 (JINR-P1-3215)
interactions p + p in interstellar hydrogen gas, quark pair production from, (T), 21:44346
interactions p + p in nuclear emulsions at 28 GeV, cross sections for elastic and inelastic, (E), 23:36829
interactions p + p in nuclear emulsions, cross sections for elastic, (E), 25:33545
interactions p + p in p + d quasi-elastic interactions at 19.2 GeV/c and 0.06 to 1.6 $(GeV/c)^2$ momentum transfer, differential cross sections for, (E), 24:10670
interactions p + p in p + He-3 reactions, final-state, (E), 24:3842
interactions p + p in quantum field theory, fireball production in, 23:32754
interactions p + p in quark model, excitation of negative-parity nucleon isobars in, 22:24628
interactions p + p in sakaton triplet model, 22:15752
interactions p + p in secondary emission from meson (π^-) reactions with xenon at 9 GeV in xenon bubble chamber, correlations for, (E), 22:5506 (INR-P-819/VI)
interactions p + p in stars at 5 x 10^{10} and 10^{11}°K, muonic neutrino emission from charged meson (π) production and decay in, (T), 23:49175
interactions p + p near 10 MeV, disagreement of multi-energy phase-shift analyses for, (E/T), 24:12940
interactions p + p to 12 GeV/c, review of data on spin effects in elastic, 23:23478
interactions p + p to 350 MeV, phenomenological phase-parameter fits to, 22:15817
interactions p + p up to 750 MeV, phase-shift analysis of, (E/T), 23:19341 (UCRL-71145)
interactions p + p with bremsstrahlung production, cross-section calculations using Hamada-Johnston and Yale potentials, 21:35410
interactions p + p with three-particle final states, SU(6) x O(3) quark model for, 22:50381
interactions p + p, analytic expressions for phase shifts for short-range potentials for, 24:3700
interactions p + p, Argand-diagram loops from partial-wave analysis of, 23:15091
interactions p + p, bibliography on experimental aspects of, 21:9697 (AERE-Bib-149)
interactions p + p, bootstrap model for derivation of Wu and Yang conjecture for cross sections of, (T), 25:9809
interactions p + p, bounds for correction to Born term for, 21:29563 (UCRL-17571)
interactions p + p, broad-area subtraction dispersion relation for forward, 23:23501
interactions p + p, calculation of bremsstrahlung production using Bryan—Scott and Hamada—Johnston potentials, (T), 22:5911
interactions p + p, calculation of scattering length using finite square-well potential, (T), 23:15525
interactions p + p, charge asymmetry effects from meson mixing in, (T), 21:37865
interactions p + p, computation of forward dispersion relations for, 23:27829
interactions p + p, cross section, effective range parameters, and triplet phases for vacuum polarization, (T), 23:44670
interactions p + p, cross sections for elastic, 25:28073
interactions p + p, cross sections for elastic, (E/T), 22:22394
interactions p + p, cross sections for electromagnetic polarized, (T), 22:22367
interactions p + p, cross sections, multiplicity, and angular distributions for multiple-production, (E), 22:17859
interactions p + p, crossed-channel Reggeon exchanges in elastic, 25:17496
interactions p + p, current algebra and Regge pole theory for, 21:29522
interactions p + p, design of specifying and discriminating experiments for, 21:23307 (JINR-E1-3066)
interactions p + p, differential cross section for pair production in, 23:32762
interactions p + p, differential cross sections for, (E), 23:10817
interactions p + p, differential cross sections for elastic large-angle, (E/T), 22:39264
interactions p + p, dispersion analysis for elastic, 21:35298
interactions p + p, dispersion relation for forward, 25:22844
interactions p + p, dispersion relations for forward, 24:5302
interactions p + p, distorted-wave Born approximation for angular distributions and total cross sections for, (T), 24:49531 (ORO-3765-27)
interactions p + p, distributions of transverse momenta in inelastic, (T), 25:27974
interactions p + p, double-scattering integrals for bremsstrahlung production in, 21:9813
interactions p + p, duality requirement for elastic, 24:8678
interactions p + p, effect of charge asymmetry on scattering length for, (T), 25:59701
interactions p + p, effect of double-scattering corrections to Glauber model for p + d interactions on amplitudes for, 24:3693

interactions p + p, effect of π mass differences on phase parameters for, 24:40424
interactions p + p, effects of vacuum polarization on $^1S_0$, (T), 21:38405
interactions p + p, eikonal model for large-angle elastic, 25:14737
interactions p + p, eikonal Regge model for elastic, 25:9755
interactions p + p, elastic unitarity integral equation for differential cross sections for, 24:30529
interactions p + p, energy dependence of cross sections for inelastic, (E/T), 24:24373
interactions p + p, existence of spin-2 Regge recurrence of pole in $^1S_0$ amplitude of, 22:15810
interactions p + p, extrapolation of slope parameter for, 25:53237
interactions p + p, Feynman method for determining cross sections of, 24:26539
interactions p + p, flux of secondary particles in, 25:33776
interactions p + p, generalized duality for inclusive and exclusive, 25:47894
interactions p + p, impact parameter theory for, 22:9700 (NYO-2262-TA-165)
interactions p + p, infinite-energy limit of differential cross section for, (T), 24:45543
interactions p + p, invariance principles for bremsstrahlung production in, (T), 21:2503
interactions p + p, kinematic conditions for cancellation of internal bremsstrahlung from relativistic, 25:25461
interactions p + p, light-cone analysis of massive μ pair production in, (T), 25:12228
interactions p + p, mass of elementary quark from, 23:15068
interactions p + p, meson exchange theory for, 21:37854
interactions p + p, meson—nucleon coupling constants from forward dispersion relations for, 22:24683
interactions p + p, model for meson (π) production in, 24:3690
interactions p + p, model for Pomeranchuk terms for total and differential cross sections for, (T), 24:37753 (LNF-69/71)
interactions p + p, model for Pomeranchukon exchange in total cross sections for, 25:36512
interactions p + p, model for production of quarks and magnetic monopoles in superstrong final-state interactions of, 25:36530
interactions p + p, model with transverse momentum and Mandelstam representation for, 21:4060
interactions p + p, models for diffractive production of N(1520) and N(1688) in, (T), 24:45548
interactions p + p, models with fixed pole and shielding cut for diffraction, (T), 25:41000 (COO-264-576)
interactions p + p, modification of maximum-likelihood method for handling data from spark chamber study of polarization in, (E), 25:22848
interactions p + p, Monte Carlo simulation of spin-correlation measurement in, 21:25316
interactions p + p, multiperipheral fragmentation for diffractive Pomeron bootstrap for, (T), 25:33768 (UCSD-10-P-10-77)
interactions p + p, multiperipheral model for cross sections for K—anti K pair production in, (T), 25:41026
interactions p + p, multiperipheral models for charged particle production in, 25:50118 (SU-1206-254)
interactions p + p, multiple-energy phase-parameter analysis and effective range for charge independence of, (T), 23:42697
interactions p + p, multiple-quark-scattering analysis of elastic, 23:18930
interactions p + p, multiplicity distribution in inelastic, (T), 24:24403
interactions p + p, Nambu—Salpeter—Bethe equation and three-meson-exchange model for P- and D-wave, (T), 24:40425
interactions p + p, neutron form factor from diffraction model of elastic, 22:44383
interactions p + p, one-boson exchange model for calculation of partial p-waves of, (T), 25:25459
interactions p + p, one-boson-exchange potentials in bremsstrahlung production in, (T), 25:17995
interactions p + p, optical model for differential cross sections for elastic, (T), 25:3413
interactions p + p, optical model for large-angle, (T), 24:40420
interactions p + p, Orear formula for statistics of, 21:9722
interactions p + p, parton model predictions for structure in high-mass μ^+—μ^- pair production in, (T), 25:36434 (LNF-71/5)
interactions p + p, Pauli principle in Regge-pole model for, 24:49537
interactions p + p, peripheral and central processes for cross sections of π and p production in inelastic, (T), 25:17467
interactions p + p, perturbation solution in Laplace representation of Schroedinger equation for, 24:15610
interactions p + p, phase equation for scattering length of modified Coulomb potential for, (T), 24:45470
interactions p + p, phase-shift analysis using very soft core potential, (T), 24:43530
interactions p + p, phenomenological models for high-energy elastic, 23:15073
interactions p + p, polarization parameter in forward elastic, 23:10817
interactions p + p, Pomeranchan exchange in elastic, 23:42692
interactions p + p, Pomeranchuk parameters for cross sections for, 24:15608
interactions p + p, Pomeranchuk trajectories for large-angle, 23:3757
interactions p + p, predictions and validity of forward dispersion relations for amplitudes of, 22:15785 (BNL-12058)
interactions p + p, projection operator techniques for SU(3) symmetry for statistical weights for, 24:13123
interactions p + p, proposed experiment for hybrid spectrometer and rapid-cycling neon bubble chamber study of diffraction dissociation in, 24:51958 (TID-25473(Vol.4), pp 275-9)
interactions p + p, proton electromagnetic form factor for inelastic, (T), 25:30977
interactions p + p, proton structure from, (T), 21:17112 (CERN-67-3)
interactions p + p, π and N form factors from multiple quark analysis of consistency relations among diffraction cross sections for, (T), 22:32116
interactions p + p, quark additive model for sum rules for meson (π) multiple production from, (T), 23:51928
interactions p + p, quark model for double scattering effects in differential cross sections for, 24:10742
interactions p + p, ratio of real to imaginary part of forward amplitude and pion conspiracy effects for, 24:10786
interactions p + p, Regge amplitude and trajectories for large-angle, 23:32766
interactions p + p, Regge analysis of massive μ^+—μ^- production in inelastic, 25:50154
interactions p + p, Regge behavior of inclusive, 25:33769
interactions p + p, Regge behavior of inclusive cross sections near kinematic boundary for, (T), 25:25395 (RLO-1388-601)
interactions p + p, Regge cut corrections to Regge pole exchange for breaks in, (T), 23:5638 (CALT-68-173)
interactions p + p, Regge cut in differential cross section for, (T), 21:11779
interactions p + p, Regge cuts and iterative procedures in diffraction, 24:8672
interactions p + p, Regge cuts and Wu—Yang hypothesis for, 22:50410
interactions p + p, Regge cuts in quark models for multiple, 23:51959
interactions p + p, Regge parameters for π multiplicity in, 25:38755
interactions p + p, Regge pole fits to cross sections for, 23:15095
interactions p + p, Regge pole model and moving branch points in j-plane for crossover with anti p + p interactions and ωP branching contribution for, 24:3679
interactions p + p, Regge pole model with linear trajectory for large-angle, 23:39748
interactions p + p, Regge poles in impact parameter plane for, 23:39855
interactions p + p, Regge-pole model for secondary maxima in, 21:44380
interactions p + p, regularity in topologic cross sections for, (E/T), 24:37622
interactions p + p, representation mixing in U(12) scheme for ratio of N* production to elastic, 22:48296
interactions p + p, research at Indiana Univ., Dec. 1968 to Nov. 1969, (E), 23:51848(R) (COO-2009-4)
interactions p + p, resonance and antishrinkage of diffraction peak in, 21:46529
interactions p + p, review of spin-correlation parameter measurements for, 21:37685
interactions p + p, S-matrix analyticity structure determination from phase shifts for, (T), 21:42384
interactions p + p, saturation of superconvergent dispersion sum rules for, 24:37817
interactions p + p, scaling symmetry relative to $\Sigma + \Sigma$ in elastic, (T), 25:22858
interactions p + p, scattering length for final-state, (E), 24:13270
interactions p + p, scattering length for, (T), 22:26790
interactions p + p, scattering matrix for relativistic, (T), 21:4065
interactions p + p, scattering parameters from helium-3 (He-3,α) final-state, (E), 23:32893(R) (ORNL-4404)
interactions p + p, semiclassical model for transverse and longitudinal π production in, 24:24229
interactions p + p, short- and long-range charge independence in, 22:37165
interactions p + p, signature of Regge cut contribution to amplitude for, 23:25660
interactions p + p, single-particle distributions for π^+ production in, 25:14742
interactions p + p, slope of Pomeron trajectory from analysis of elastic, 25:53236
interactions p + p, soft core potential for offshell scattering, (T), 22:27287
interactions p + p, soft-core potential model for, (T), 24:13034
interactions p + p, soft-photon theory of bremsstrahlung production in, 22:37116
interactions p + p, spin effects in multiple-quark-scattering analysis of, 25:38756
interactions p + p, systematic study of p + d $\rightarrow$ p + p + n interactions for scattering lengths for, (E), 24:37621 (KFK-1172)
interactions p + p, test of lepton nonconservation from neutrino capture rate at earth from, (E/T), 23:46678
interactions p + p, test of minimal interaction hypothesis in, 22:11671
interactions p + p, theory of pionization in, 25:33672
interactions p + p, thermodynamic model for π^-, K , and anti p production in, 23:3754 (RHEL/R-165)
interactions p + p, three-quark corrections to quark model for deviations from exact exchange degeneracy for total cross sections of, (T), 24:10770
interactions p + p, two-particle symmetry group for phase shift of elastic, 25:9818
interactions p + p, two-photon generation mechanism for angular distributions and production cross sections for π^0 production in, (T), 25:59370
interactions p + p, two-temperature statistical model for particle production in, 21:21253
interactions p + p, two-temperature statistical model of particle spectra from, 24:8674
interactions p + p, unitarity upper and lower bounds on absorptive parts of amplitude for elastic, (T), 24:37953
interactions p + p, unitarity upper bounds on amplitude for elastic, (T), 24:45526
interactions p + p, unitary model of Regge cuts for, 24:40423
interactions p + p, upper bound on imaginary part of amplitude for elastic, 25:3460
interactions p + p, validity of finite-energy sum rules for, 24:28564
interactions p + p, vector meson-proton coupling constants from elastic, (T), 21:2480
interactions p + p, velocity-dependent potential for elastic, 22:44449
interactions p + p, weak duality for slopes of angular distributions of elastic, 25:30873
interactions p + p, at very high energies, uncorrelated jet model for diffraction peak in, 25:22852
interactions p + π $\rightarrow$ p + A_1, contribution of Mandelstam branch cuts from Reggeon exchange to, (T), 22:3455
interactions p + Σ^+, (T), 21:12027(R) (UCRL-50001-66-2)
interactions p +p, quasi-diffraction model for 1.40-GeV πN peak in, 21:936
interactions phi + p $\rightarrow$ phi + p, γ + p $\rightarrow$ phi + p interactions for tests of Frautschi—Margolis model for multiple Pomeron exchange in, (T), 24:52034
interactions phi + p at 6 to 20 GeV/c, total cross section and phase of scattering amplitude for, (T), 24:20162
interactions phi + p from γ + p interactions, cross sections for, (T), 22:46448
interactions pseudoscalar—pseudoscalar, pseudoscalar—vector, and vector—vector mesons, U tilde (8) theory for, 21:33748
interactions π + d, review of S not equal to 0 baryon resonances in, (E), 22:32057
interactions π + K at 2 to 3 GeV/c, review of quasi-two-body final states and multiple particle production in, 22:32121
interactions π + N, kinematic effects for A_1 production from, (T), 21:29548
interactions π + p $\rightarrow$ 2π + N with Regge pole and cut exchange, π + π scattering phase shift determination in, (T), 25:33750
interactions π + p $\rightarrow$ 3π + p, natural- and unnatural-parity components in diffractive, (T), 25:22827
interactions π + p $\rightarrow$ 3π + p, review of diffractive processes in, (T), 25:17501
interactions π + p $\rightarrow$ A + p, extension of Iizuka rule for, (T), 24:49444
interactions π + p $\rightarrow$ A_1 + p, two-pion exchange contributions to absorptive amplitude for, 22:3424
interactions π + p $\rightarrow$ A_1 + rho + p $\rightarrow$ 5π + p at 50 and 100 GeV, Drell—Hiida—Deck effect for diffractive, (T), 25:36521
interactions π + p $\rightarrow$ A_2 + p, two-pion exchange contributions to absorptive amplitude for, 22:3424
interactions π + p $\rightarrow$ epsilon + π + p in double Regge model, spin and parity analysis of (epsilon π) system in, 25:47876
interactions π + p $\rightarrow$ eta + n, Regge—quark model analysis of differential cross sections for, 23:1644
interactions π + p $\rightarrow$ f^0 + N*, correlations between decay angular distributions of f^0N* from, 22:9600
interactions π + p $\rightarrow$ K + Σ, N* production in, 23:10766
interactions π + p $\rightarrow$ $\Lambda(\Sigma)$ + K + π at 5.0 GeV/c, N* and Δ production in, (E), 23:42569
interactions π + p $\rightarrow$ $\Lambda(\Sigma)$ + rho + K at high energies, Reggion graphs for asymptotic behavior of amplitude of, 22:22403
interactions π + p $\rightarrow$ N + 3π (5π), multi-Regge-exchange model for shadow elastic interactions in, 22:22392 (INR-P-880/VI/PH)
interactions π + p $\rightarrow$ N + 7π, multi-Regge-exchange model for shadow elastic interactions in, 22:22392 (INR-P-880/VI/PH)
interactions π + p $\rightarrow$ N + anti K + K + mπ (m greater than 2) at 7.5 and 8 GeV, angular correlations, asymmetry coefficients, and Goldhaber effect in, (E), 24:52088
interactions π + p $\rightarrow$ n + e^+ + e^-, rho—ω interference effects on cross sections for, (T), 25:3367
interactions π + p $\rightarrow$ N + nπ, quark model for cross sections for, 23:5620
interactions π + p $\rightarrow$ N* + π, one-particle exchange models for, 21:7515
interactions π + p $\rightarrow$ N*, analysis of N* final states from, 22:26651 (UCRL-18154)
interactions π + p $\rightarrow$ nπ + p at high energies, effective mass spectrum of multipion system from, (T), 23:32756
interactions π + p $\rightarrow$ ω + Δ, quark model for, 21:31602
interactions π + p $\rightarrow$ ω + Δ, Regge pole model with factorization for, 24:10707
interactions π + p $\rightarrow$ ω + Δ(1236), Roy model for behavior of diffraction maximum in, 22:17956
interactions π + p $\rightarrow$ ω + Δ(1236), two-pion exchange contributions to absorptive amplitude for, 22:3424
interactions π + p $\rightarrow$ ω + N* at high energies, quark model for decay distribution correlations for, 21:21234
interactions π + p $\rightarrow$ p + (N - 1)π, four-momentum transfer dependence of transition matrix element for, 24:5316
interactions π + p $\rightarrow$ p + 2π, triangle-Feynman-graph imitation of Δ(1236) and N(1470) production in, (T), 24:3704
interactions π + p $\rightarrow$ p + 3π at 100 GeV/c, design of multiparticle spectrometer for studying, 24:52319 (TID-25473(Vol.3), pp 177-209)
interactions π + p $\rightarrow$ p + 5π at 4 to 16 GeV/c, effect of resonance production on π pair angular distributions in, (T), 22:39272 (CERN-68-7(Vol.1), pp 599-610)

interactions $\pi + p \to p + 5\pi$ at 5 GeV/c, statistical model for asymmetry parameters for π pair angular distributions in, (T), 25:30880
interactions $\pi + p \to p + A_2$ at 2.6 GeV/c, A_2 splitting in, (E), 23:7092
interactions $\pi + p \to \pi + \Delta(1236)$, Roy model for behavior of diffraction maximum in, 22:17956
interactions $\pi + p \to \pi$ + eta + n at high energies, Regge-pole model for, 25:3399
interactions $\pi + p \to \pi + N$ at high energies, Pomeranchuk theorem validity from Pomeranchuk—Okun rule for phases of, 24:40396
interactions $\pi + p \to \pi + N$, multi-Regge-exchange model for shadow, 22:22392 (INR-P-880/VI/PH)
interactions $\pi + p \to \pi + N^*$, polarization effects in amplitudes of, (T), 21:9804
interactions $\pi + p \to \pi + N^*$, quark model of diffractive production of N(1470) and N(1690), 25:33756
interactions $\pi + p \to \pi + N^*$, Regge-pole model for, 22:32165
interactions $\pi + p \to \pi + N(1470)$ at very high energies, integrated cross sections, angular distributions, and pionization in diffractive, (T), 25:53050 (DESY-71/36)
interactions $\pi + p \to \pi + p + \gamma$, current algebra study in off-mass-shell limit, 23:7149
interactions $\pi + p \to \pi + p$ at 0 to 300 MeV, review lectures on, (E/T), 25:56422 (CERN-71-14, pp 379-93)
interactions $\pi + p \to \pi + p$ at 1.5 to 5 GeV/c, modified interference model for N(2300) parity doublet in forward, 24:1611
interactions $\pi + p \to \pi + p$ at high energies, 0(3,1) symmetry for behavior of invariant amplitude of, 23:44699
interactions $\pi + p \to \pi + p$ at high energies, model for diffraction peak shrinkage in, 22:13741
interactions $\pi + p \to \pi + p$ at high energies, review of spin rotation parameters for, (E), 25:53028
interactions $\pi + p \to \pi + p$ at high energy and small momentum transfer in Coulomb and nuclear amplitude interference region, (T), 24:5312
interactions $\pi + p \to \pi + p$ at low energies, phenomenological Regge trajectories for direct-channel, 24:20153 (IS-T-355)
interactions $\pi + p \to \pi + p$ at low energies, phenomenological Regge trajectories in direct-channel, (T), 25:5382
interactions $\pi + p \to \pi + p$ below 30 GeV, proton compressibility in, (T), 23:36957
interactions $\pi + p \to \pi + p$ in Coulomb interference region, filmless spark chamber spectrometer study of real part of amplitude of, (E), 23:34534 (JINR-P1-4445)
interactions $\pi + p \to \pi + p$, diffraction peak in, (T), 23:30751
interactions $\pi + p \to \pi + p$, dispersion sum rules for, (T), 21:11771 (JINR-P2-3081)
interactions $\pi + p \to \pi + p$, models with fixed pole and shielding cut for scaling relation among amplitudes of, (T), 25:41000 (COO-264-576)
interactions $\pi + p \to \pi + p$, modified Lorentz pole analysis of, 23:27813
interactions $\pi + p \to \pi + p$, s-channel helicity conservation for diffraction part of, (T), 25:30885
interactions $\pi + p \to \pi + \pi + N$, rho parameters from, (E/T), 22:39416
interactions $\pi + p \to \pi + \pi + p$, analysis of, 21:18995
interactions $\pi + p \to \pi^0 + n$, differential cross section for, (E/T), 22:9518
interactions $\pi + p \to \pi^- + p$ at 0.6 to 3.3 MeV/c, measurement of polarization parameter in elastic, (E), 21:17045 (UCRL-17263)
interactions $\pi + p \to \pi^- + \pi^- + \pi^+ + p$ at 25 GeV/c in hydrogen bubble chamber, preliminary results for multiperipheral processes in, (E), 22:39273 (CERN-68-7(Vol.2), pp 114-19)
interactions $\pi + p \to$ rho + Δ, model for Regge cut contributions to, 23:42778
interactions $\pi + p \to$ rho + Δ, quark model for, 21:31602
interactions $\pi + p \to$ rho + Δ, Regge pole model with factorization for, 24:10707
interactions $\pi + p \to$ rho + N^* at high energies, quark model for decay distribution correlations for, 21:21234
interactions $\pi + p \to$ rho + N^*, absorptive OPE model with form factors for, (E/T), 21:33706
interactions $\pi + p \to$ rho + N^*, correlations between decay angular distributions of rhoN* from, 22:9600
interactions $\pi + p \to$ rho + N^*, energy- and momentum-transfer dependence of cross sections for, (T), 22:34991
interactions $\pi + p \to$ rho + N^*, method for representing joint resonance decay distributions from, (T), 22:39405 (TPJU-15/67)
interactions $\pi + p \to$ rho + N^*, use of statistical tensors for joint decay angular distributions in, 22:24629
interactions $\pi + p \to$ rho + p at 2.0 GeV/c, distorted-wave theory of one-meson-exchange calculations of, 24:8650
interactions $\pi + p \to$ rho + p at 8 GeV/c in absorption model, dynamic reference system for, 22:5568
interactions $\pi + p \to$ rho + p at high energies, rho matter density in optical model for, (T), 25:22820
interactions $\pi + p \to$ rho + p, quark model for, 21:31602
interactions $\pi + p \to$ rho + p, rho spin-density matrix elements in Feynman-diagram model of Reggeization for, 24:8654
interactions $\pi + p \to$ rho + π + p in double Regge model, spin and parity analysis of (rho π) system in, 25:47876
interactions $\pi + p \to$ rho + π + p, kinematic reflections in, 23:32749
interactions $\pi + p \to \Sigma + K + 3\pi$ at 5 GeV/c, N^* and Δ production in, (E), 23:42569
interactions $\pi + p \to \Sigma^+ + K^0 + \pi^-$ at 1.95 GeV/c in hydrogen bubble chamber, cross sections and K^* (892) production in, (E), 21:44283
interactions $\pi + p$ above 1 GeV, multiplicity distributions of charged secondary particles in, (E), 22:52931 (KFKI-20/1968)
interactions $\pi + p$ above 500 GeV, cross sections for quark, antiquark, and proton production in, (T), 24:8666
interactions $\pi + p$ at 0°, dependence on constancy of difference of total cross sections for $\pi^- + p$ and $\pi^+ + p$ interactions above 30 GeV for charge exchange, (T), 25:38748
interactions $\pi + p$ at 1.7 to 18.4 GeV/c, absorptive potential with hard core for, (T), 23:5633
interactions $\pi + p$ at 100 GeV, proposed experiment for detection and classification of high-mass bosons in, 24:51957 (TID-25473(Vol.4), pp 267-73)
interactions $\pi + p$ at 17 GeV in emulsions, angular momentum and momentum transfer squared in inelastic, (E), 22:44324
interactions $\pi + p$ at 2 to 3 GeV/c, review of quasi-two-body final states and multiple particle production in, 22:32121
interactions $\pi + p$ at 3.5 GeV/c, equipment for studying wide-angle elastic, 24:23018 (CEA-N-1258)
interactions $\pi + p$ at 4 to 36 GeV, quark model for multiple π production in, 25:56514
interactions $\pi + p$ at 50 to 1000 GeV, review of multiparticle production in, (E), 25:5273
interactions $\pi + p$ at 7 to 15 GeV/c, analysis of two-body and quasi two-body, 23:39691
interactions $\pi + p$ at 7 to 20 GeV/c, differential cross sections for elastic, (E/T), 22:46430
interactions $\pi + p$ at 8, 11, and 16 GeV, cross sections for, (E/T), 24:32974
interactions $\pi + p$ at high energies, 22:3371
interactions $\pi + p$ at high energies and frequencies, restrictions on Van Hove overlap function with unitarity for elastic and inelastic, (E/T), 23:46733
interactions $\pi + p$ at high energies and large angles, differential cross section for singular potential, 23:27878
interactions $\pi + p$ at high energies and large momentum transfer, model for elastic, 21:7507
interactions $\pi + p$ at high energies and small momentum transfers, isotopic structure of N^* radiative decays from, (T), 24:6681
interactions $\pi + p$ at high energies sakaton rearrangement model for, 25:12186
interactions $\pi + p$ at high energies using polarized targets, review of, (E), 21:23308 (UCRL-17433)
interactions $\pi + p$ at high energies, (E), 21:33599 (RHEL/R-144, pp 15-40)
interactions $\pi + p$ at high energies, (E), 21:33806 (RHEL/R-129, pp 11-44)
interactions $\pi + p$ at high energies, 36-plet 2^+ meson exchange for total cross section for, 22:5626
interactions $\pi + p$ at high energies, analogous excited-baryon-model hypothesis for fire balls and inelasticity in, 24:30524
interactions $\pi + p$ at high energies, analysis of, (E/T), 21:4003 (INP-494/PL/PH)
interactions $\pi + p$ at high energies, Bethe—Salpeter equation for inelastic, 25:5359
interactions $\pi + p$ at high energies, comparison of cross sections for strong and electromagnetic, (T), 22:39324
interactions $\pi + p$ at high energies, comparison of Regge pole results with data for, (E/T), 23:39723(T) (NP-tr-1826)
interactions $\pi + p$ at high energies, Coulomb interference in elastic, 21:42367
interactions $\pi + p$ at high energies, cross sections for large-angle diffraction, (T), 23:39731
interactions $\pi + p$ at high energies, current developments on, 21:46546
interactions $\pi + p$ at high energies, dispersion model for, 21:31642
interactions $\pi + p$ at high energies, Drell—Hiida model bump in πN invariant mass spectrum from, 24:18192
interactions $\pi + p$ at high energies, experimental test of Pomeranchuk theorem in, 25:59424
interactions $\pi + p$ at high energies, fixed-branch-point model for diffraction, 23:49165
interactions $\pi + p$ at high energies, impact-parameter formalism for elastic, (T), 22:24663
interactions $\pi + p$ at high energies, inelastic diffractive, 24:24251
interactions $\pi + p$ at high energies, isobar production effects on charge ratio of π, K, and Σ from, (T), 22:13768
interactions $\pi + p$ at high energies, kinematic variable for, 24:20165
interactions $\pi + p$ at high energies, large-momentum-transfer π, K, and p production in, (T), 24:37746
interactions $\pi + p$ at high energies, M(12) scheme for vector meson production in, 21:2507
interactions $\pi + p$ at high energies, model for diffraction peak shrinkage in elastic, 21:35314 (COO-1112-104)
interactions $\pi + p$ at high energies, multiple-scattering corrections to Pomeranchuk exchange in, 22:46397
interactions $\pi + p$ at high energies, N^* resonance production in, (E/T), 22:3406 (INP-555/PL/PH, pp 51-63)
interactions $\pi + p$ at high energies, one-photon-exchange contribution to cross sections of inelastic, (T), 25:22825
interactions $\pi + p$ at high energies, partial wave analysis of, 21:33715
interactions $\pi + p$ at high energies, phase shifts for, 22:13869
interactions $\pi + p$ at high energies, polarization in charge-exchange, (T), 21:19008
interactions $\pi + p$ at high energies, Pomeranchuk theorem violation and near-forward zeros of differential cross sections for, 25:25426
interactions $\pi + p$ at high energies, predictions from low-energy phase shifts, 23:3750
interactions $\pi + p$ at high energies, production of $A_3(1640)$ enhancement in $\pi\pi\pi$ system in, (E), 25:17388
interactions $\pi + p$ at high energies, Regge one-pole model for forward elastic, 21:33759
interactions $\pi + p$ at high energies, Regge pole model for, 22:7513
interactions $\pi + p$ at high energies, Regge pole model corrected by absorption for, 23:51930
interactions $\pi + p$ at high energies, Regge poles with absorption for, 24:18151 (CONF-690330-, pp 166-80)
interactions $\pi + p$ at high energies, Regge-pole amplitudes for analysis of differential cross sections for, 23:27799
interactions $\pi + p$ at high energies, Regge-pole eikonal theory of small-angle, 23:15116
interactions $\pi + p$ at high energies, relation between transverse momentum dependence of multipion production and elastic, (T), 22:15792
interactions $\pi + p$ at high energies, relations among cross sections for inelastic, (T), 22:15789 (JINR-P2-3649)
interactions $\pi + p$ at high energies, review of experiments on, 21:31578
interactions $\pi + p$ at high energies, review of peripheral model for origin of dips and spikes in differential cross sections for exchange, (T), 24:52099
interactions $\pi + p$ at high energies, review of π and N^* production with Pomeron exchange in, (E), 24:24236 (ANL/HEP-6909, pp 37-59)
interactions $\pi + p$ at high energies, review of, (E/T), 22:17957
interactions $\pi + p$ at high energies, self-consistent multiple-quark-scattering analysis of, 23:36959
interactions $\pi + p$ at high energies, statistical model for cross sections of, 24:30492 (INR-1163)
interactions $\pi + p$ at high energies, theory of polarization for, 23:18924
interactions $\pi + p$ at high energies, use of current algebra and PCAC hypothesis for elastic, 22:15804
interactions $\pi + p$ at high energy, polarization in, 23:8806 (INP-622(Vol.1), pp 85-104)
interactions $\pi + p$ at high momentum transfers, Regge recurrences for elastic, 21:23338
interactions $\pi + p$ at large angles, fermion Regge poles for cross-section relations for, 23:3747
interactions $\pi + p$ at low energies, sum rules for coupling and subtraction constants for, 21:21242
interactions $\pi + p$ at very high energies and high momentum transfers, large-angle and backward, (E/T), 25:5281 (CONF-700314-, Paper 15)
interactions $\pi + p$ below 10 GeV/c, peripheral, 21:31579
interactions $\pi + p$ below 2 GeV/c, review of experiments and phase shift analysis for, 22:20138 (UCRL-18001)
interactions $\pi + p$ below 2 GeV/c, review on phase shift analyses of elastic, 24:5295
interactions $\pi + p$ below 600 MeV, test of charge independence in backward, (E/T), 25:33572
interactions $\pi + p$ in Glauber quark model, cross sections for elastic, 24:15550
interactions $\pi + p$ in meson (π^-) reactions with nuclei at 60 GeV in emulsions, properties of, (E), 24:10673
interactions $\pi + p$ in quark model, excitation of negative-parity nucleon isobars in, 22:24628
interactions $\pi + p$ in Regge model, comparison of two- and three-body, 24:8661
interactions $\pi + p$ in sakaton triplet model, 22:15752
interactions $\pi + p$ to 65 GeV, differential cross sections and polarization parameters for, 25:7661
interactions $\pi + p$ using polarized target, 400-kJ superconducting magnet for investigating, 22:10602
interactions $\pi + p$ with charge exchange, quark model predictions for pseudoscalar and vector meson production cross sections for, (T), 24:10773
interactions $\pi + p$ with three-particle final states, SU(6) x O(3) quark model for, 22:50381
interactions $\pi + p$, absorption model for meson-exchange, 24:3675
interactions $\pi + p$, Argand-diagram loops from partial wave analysis of, 23:15091
interactions $\pi + p$, at high energies, Yukawa potential and hard core for analysis of elastic, 24:8659
interactions $\pi + p$, CAE 90-10 computer-based data acquisition system for polarization parameter measurements in, 22:19155
interactions $\pi + p$, computerized compilation of cross sections for, (E), 24:5247 (CERN-HERA-69-1)
interactions $\pi + p$, cross sections and scattering amplitudes from P and P' Regge parameters for, 22:34989
interactions $\pi + p$, cross sections for elastic, (E/T), 22:22394
interactions $\pi + p$, cross sections for single meson production in, 23:36906
interactions $\pi + p$, curves for energy dependence of cross sections for, (E), 25:50066 (JINR-P2-5924)
interactions $\pi + p$, design of storage rings for, 21:46631
interactions $\pi + p$, dispersion sum rules for, 21:40233
interactions $\pi + p$, double-pole model for mass distributions for $A_2 \to K$ + anti K and $A_2 \to \pi$ + rho decays in, (T), 25:17482
interactions $\pi + p$, effect of sum rule on contribution of rho' and cut to charge-exchange, 22:9599
interactions $\pi + p$, elastic unitarity integral equation for differential cross sections for, 24:30529
interactions $\pi + p$, experimental tests of SU(3) predictions for, (T), 22:7544 (ORO-2504-112)

interactions $\pi + p$, extraction of cross sections from $p + p \to p + \pi^+ + n$ interactions, (E/T), 24:30533 (CONF-690521-, pp 1-26)
interactions $\pi + p$, Fermi-like Lorentz-invariant statistical model for multiplicity spectrum for π^+ and π^- production in, (T), 25:41013
interactions $\pi + p$, fixed-transfer dispersion relations for Regge cuts in backward, 23:36935
interactions $\pi + p$, generalized interference model for resonance interpretation of phase shift analysis for, (T), 25:7671
interactions $\pi + p$, generalized quark model for cross sections and spin density matrix elements for strangeness-exchange, 22:29693
interactions $\pi + p$, Gribov—Morrison parity rule and helicity conservation in diffractive π production in, 25:22833
interactions $\pi + p$, invariance of asymptotic spin and modified Pomeranchuk theorem for differential cross sections for, 24:40354
interactions $\pi + p$, mechanisms of nucleon isobar excitation in, 24:3655
interactions $\pi + p$, models with fixed pole and shielding cut for diffraction, (T), 25:41000 (COO-264-576)
interactions $\pi + p$, Monte Carlo method for rho mass distribution from production in, 25:17494
interactions $\pi + p$, P and P' Regge parameters from sum rules for, 22:34996
interactions $\pi + p$, phase and t structure of exchange amplitudes for, 25:33754
interactions $\pi + p$, phase of scattering amplitude from $\pi + d$ interactions and Glauber formula, 22:50407
interactions $\pi + p$, phase shift analysis for, 23:49216
interactions $\pi + p$, phase shift analysis for nucleon multiresonance production and decay from, 22:13757
interactions $\pi + p$, phenomenological models for high-energy elastic, 23:15073
interactions $\pi + p$, proton electromagnetic form factor for inelastic, (T), 25:30977
interactions $\pi + p$, π and N form factors from multiple quark analysis of consistency relations among diffraction cross sections for, (T), 22:32116
interactions $\pi + p$, π form factor from Chou—Yang model for elastic, 23:23413
interactions $\pi + p$, π form factor from extrapolation to infinite energies of differential cross sections for elastic, 24:18204
interactions $\pi + p$, Regge model for axial-vector meson production in, 23:5623
interactions $\pi + p$, Regge pole and cut in elastic, 22:50396
interactions $\pi + p$, Regge pole fits to cross sections for, 23:15095
interactions $\pi + p$, Regge pole residues near $\alpha = 0$ in presence of fixed pole effects in, (T), 24:26442
interactions $\pi + p$, Regge trajectory of π in O(4) group formalism for, 24:18169
interactions $\pi + p$, Regge-pole eikonal scheme for partial cross sections and Argand diagrams for, 25:17495
interactions $\pi + p$, Regge-type models for quasi-two-body, 24:15596
interactions $\pi + p$, Reggeized baryon exchange model for anti $p + p \to \pi^- + \pi^+$ cross sections from, 21:46533
interactions $\pi + p$, research at Indiana Univ., Dec. 1968 to Nov. 1969, (E), 23:51848(R) (COO-2009-4)
interactions $\pi + p$, resonances and antishrinkage of diffraction peak in, 21:46529
interactions $\pi + p$, review of N* production from, 21:31596
interactions $\pi + p$, review of resonance production from, 22:9591
interactions $\pi + p$, review on N* production in, 24:5297
interactions $\pi + p$, secondary vacuum trajectories and scalar meson exchange for, (T), 24:37800
interactions $\pi + p$, singularities in complex angular momentum plane for sum rule for, 21:21247
interactions $\pi + p$, spark-chamber spectrometer study of forward differential cross sections for $p + p \to d + \pi$ interactions at 3.4 to 12.3 GeV/c for $T = {}^3/_2$ isobars and cross sections for, (E), 25:53008 (LA-4483)
interactions $\pi + p$, structure of cross section for S-wave $\pi + \pi$ interactions in final-state of, 25:25414
interactions $\pi + p$, sum rules for, 21:25336
interactions $\pi + p$, superconvergent dispersion sum rules for, 21:33701
interactions $\pi + p$, test of Pomeranchuk theorem from finite-energy sum rules for, 25:20011
interactions $\pi + p$, upper bound on imaginary part of amplitude for elastic, 25:3460
interactions $\pi + p$, use of polarized targets for studying, 22:9715 (CERN-67-24(Vol.4), Paper 3)
interactions $\pi + p$, vertex function for arbitrary-spin N* production from, (T), 21:40228
interactions $\pi^0 + p \to \omega + p$, Reggeized absorption model fits to, 25:56458
interactions $\pi^0 + p \to \pi^0 + p$, Bjorken limit and Jin—Martin lower bound for, (T), 25:3294 (NYO-4204-5)
interactions $\pi^0 + p \to \pi^0 + p$, ratio of amplitudes with $\gamma + p$ amplitudes for, 21:37747
interactions $\pi^0 + p \to \pi^- + n$ at high energies, possibility of second rho from polarization in, (T), 21:23335 (AD-644646)
interactions $\pi^0 + p \to \pi^+ + n$, ratio of amplitudes with $\gamma + p$ amplitudes for, 21:37747
interactions $\pi^0 + p \to \text{rho}^0 + p$, Reggeized absoption model fits to, 25:56458
interactions $\pi^0 + p \to \text{rho}^0(\omega) + p$, vector dominance in Regge pole model with SU(3) for, 23:42608
interactions $\pi^0 + p$ without ultraviolet divergences, nonrenormalized, 23:27800 (ITF-69-5)
interactions $\pi^0 + p$, regularization and renormalization of anomalous Ward identities in dynamics of, (T), 25:41015
interactions $\pi^+ + d \to \pi^+ + \pi^- + m\pi^0 + p + p$ at 3.65 GeV/c in deuterium bubble chamber, cross sections for, (E), 22:3286
interactions $\pi^+ + n \to \pi^+ + n$, ratio of amplitudes with $\gamma + p$ amplitudes for, 21:37747
interactions $\pi^+ + p \to \Sigma^+ + K^+$ at threshold to 2 GeV, resonance contributions to, (E/T), 24:49511
interactions $\pi^- + p \to (\mu^+\mu^-) + n$, (T), 24:8651
interactions $\pi^+ + p \to 2$ charged particles + 2 or more neutrals at 1.02 GeV/c in hydrogen bubble chamber, cross section for, 22:3278
interactions $\pi^- + p \to 2\,\pi^+ + 2\pi^- + n$ at 8 and 16 GeV/c, correlation effects in, (E), 25:30744
interactions $\pi^- + p \to 2\gamma + n$ at 3.65 GeV/c, differential and total cross sections for eta and eta' production in, (E), 25:53003
interactions $\pi^+ + p \to 2p + \pi^+ + \pi^- + \pi^0$ at 5.1 GeV/c in deuterium bubble chamber, rhoπ(1636) production in, (E), 22:26571
interactions $\pi^- + p \to 2\pi + N$ at 2.3 GeV/c in hydrogen bubble chamber, rho$^-$, rho^0, and Δ(1236) production in, (E), 25:14570
interactions $\pi^- + p \to 2\pi^0 + n$ at 10 GeV/c, spark chamber study of $2\pi^0$ mass spectrum in, (E), 25:1420
interactions $\pi^- + p \to 2\pi^0 + n$ at 291 to 407 MeV, total cross sections for, (E), 25:43564
interactions $\pi^- + p \to 2\pi^0 + n$ at 447 MeV, spectrometer and spark chamber study of total cross sections, neutron differential cross sections and angular distributions, and $\pi^0\pi^0$ system effective mass spectrum in, (E), 25:36405 (JINR-P1-5781)
interactions $\pi^- + p \to 2\pi^+ + 2\pi^- + m\pi^0 + n$ at 4 GeV/c in propane bubble chamber, mechanism of, (E), 21:31535
interactions $\pi^- + p \to 2\pi^- + 2\pi^+ + n + m\pi^0$ at 4 GeV/c in propane bubble chamber, total effective cross sections for boson resonance production in, (E), 23:42580
interactions $\pi^- + p \to 2\pi^- + 2\pi^+ + n$ at 2.3 GeV/c in hydrogen bubble chamber, cross sections and Δ^-(1236) production in, (E), 25:14571
interactions $\pi^- + p \to 2\pi^- + 2\pi^+ + n$ at 3.9 GeV/c, cross sections for $\pi^- + \pi^+ \to 2\pi^+ + 2\pi^-$ interactions from, (E), 24:42880 (UH-511-74-70)
interactions $\pi^- + p \to 2\pi^- + 2\pi^+ + n$ at 5 GeV/c, mass distribution for $f^0 \to 4\pi$ decay in, (E), 23:5543
interactions $\pi^- + p \to 2\pi^- + 2\pi^+ + n$ at 6 GeV/c in hydrogen bubble chamber, associated production of rho^0 and N(2650) and Δ(2420) in, (E), 24:10687
interactions $\pi^+ + p \to 2\pi^+ + n$ at 2.34 GeV/c, Chew—Low method for cross sections of $\pi^+ + \pi^+$ interactions from, (E), 24:28493
interactions $\pi^- + p \to 2\pi^- + p + \pi^+ + \pi^0$ at 2.3 GeV/c in hydrogen bubble chamber, cross sections and ω^0(785), N^{*++}(1236), and B(1220) production in, (E), 25:14571
interactions $\pi^- + p \to 2\pi^- + p + \pi^+$ at 11 GeV/c in hydrogen bubble chamber, production of π^-(1640) in, (E), 23:49056
interactions $\pi^- + p \to 2\pi^- + p + \pi^+$ at 2.3 GeV/c in hydrogen bubble chamber, cross sections Δ^{++}(1236) and rho^0(765) production and $\pi^- + \pi^-$ interaction cross sections for, (E), 25:14571
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p + \pi^0$ at 2.95 to 4.08 GeV/c in bubble chamber, H enhancement in, (E), 24:45433
interactions $\pi^- + p \to 2\pi^- + \pi^+ + p$ at 11 and 16 GeV/c, longitudinal phase space analysis of, (T), 25:30881
interactions $\pi^- + p \to 2\pi^- + \pi^+ + p$ at 11 GeV/c, predictions of double Regge pole model for quasi-three-body production in, 22:39393 (CERN-68-7(Vol.1), pp 611-47)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 13.1 GeV/c in hydrogen bubble chamber, double Regge-pole analysis of resonance production in, (E), 24:37643 (COO-1428-218)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 2.95 to 4.08 GeV/c in bubble chamber, N* cascade decays in, (E), 24:45433
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 3.7 GeV/c in hydrogen bubble chamber, Regge pole effects in π exchange contribution to rho$^0\Delta^{++}$ production in, (E), 24:45441
interactions $\pi^- + p \to 2\pi^- + \pi^+ + p$ at 3.9 GeV/c, model with π exchange, diffraction dissociation, and rho exchange for resonance production in, 23:36836 (UH-511-48-69)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 5 GeV/c, analysis of angular distributions in A_1 and A_2 regions in, (T), 25:59475
interactions $\pi^- + p \to 2\pi^- + \pi^+ + p$ at 5.0 to 7.5 GeV/c in bubble chamber, coherence of isoscalar and isovector exchange amplitudes for A_2^- production in, (E), 25:9650 (COO-1195-202)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 50 to 100 GeV/c, 3π mass resolution in large bubble chamber for, 24:50589 (TID-25473(Vol.2), pp 33-44)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + p$ at 7.0 to 8.5 GeV/c in bubble chamber, coherence of isoscalar and isovector exchange amplitudes for A_2^+ production in, (E), 25:9650 (COO-1195-202)
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + \pi^0 + p$ at 3 to 5 GeV/c, determination of spin and parity of B meson from, (E), 25:12119
interactions $\pi^+ + p \to 2\pi^+ + \pi^- + \pi^0 + p$ at 3.7 GeV/c in hydrogen bubble chamber, Regge pole effects in rho exchange contribution to $\omega^0\Delta^{++}$ production in, (E), 24:45441
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p + \pi^0$ at 3.2 GeV/c in hydrogen bubble chamber, mass distributions and cross sections for resonance production in, (E), 23:46622
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, N(1688), Δ^{++}(1236), ω^0, and B^-(1380) production in, (E), 23:42567
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p + \pi^0$ at 6 GeV/c, cross sections and resonance production in, (E), 24:24243
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p + \pi^0$ at 7.0 GeV/c in bubble chamber, production of Δ^{++}(1236), N(1518), and meson resonances in, (E), 24:45432
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p$ at 3.2 GeV/c in hydrogen bubble chamber, mass distributions and cross sections for resonance production in, (E), 23:46622
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p$ at 3.9 GeV/c in hydrogen bubble chamber, A_1^-, rho^0, and Δ^{++} production and cross sections for, (E), 24:45428 (UH-511-65-70)
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p$ at 6 GeV/c in hydrogen bubble chamber, Δ^{++}(1236), rho^0 and A_1 production in, (E), 23:42567
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p$ at 6 GeV/c, cross sections and resonance production in, (E), 24:24243
interactions $\pi^- + p \to 3\pi^- + 2\pi^+ + p$ at 7.0 GeV/c in bubble chamber, rho (760) and Δ^{++}(1236) production and cross sections for, (E), 24:45432
interactions $\pi^+ + p \to 3\pi^+ + 2\pi^- + p$ at 8 GeV/c, multiperipheral model with $\pi\pi$ and πp phase shifts and form factors for, (T), 25:36503 (INR-P-1265)
interactions $\pi^- + p \to 3\pi^+ + 2\pi^- + \pi^0$ at 8 GeV/c, analysis by method of principal axis, (E/T), 21:44274 (INR-807/VI/PH)
interactions $\pi^- + p \to 3\pi^- + 3\pi^+ + n$ at 3.2 GeV/c in hydrogen bubble chamber, resonance production in, (E), 23:46622
interactions $\pi^- + p \to 3\pi^- + 3\pi^+ + n$ at 5.48 GeV/c in hydrogen bubble chamber, 21:31529 (TID-23843)
interactions $\pi^- + p \to 3\pi^- + 3\pi^+ + n$ at 6 GeV/c, cross sections and resonance production, (E), 24:24243
interactions $\pi^- + p \to 3\pi^- + 3\pi^+ + n$ interactions at 7.0 GeV/c in bubble chamber, cross sections for, (E), 24:45432
interactions $\pi^+ + p \to 3\pi^+ + 3\pi^- + \pi^0$ at 11 GeV/c, 7π enhancement in, (E), 25:17397
interactions $\pi^- + p \to 3\pi^- + p + 2\pi^+$ at 5.48 GeV/c in hydrogen bubble chamber, resonance production from, 21:31529 (TID-23843)
interactions $\pi^+ + p \to 3\pi^+ + \pi^- + n$ at 2.95 to 4.08 GeV/c in bubble chamber, (E), 24:45433
interactions $\pi^+ + p \to 4$ charged particles at 1.02 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:3278
interactions $\pi^+ + p \to 4\pi^+ + 3\pi^- + \pi^0 + p$ at 11 GeV/c, 7π enhancement in, (E), 25:17397
interactions $\pi^+ + p \to 5\pi^+ + 3\pi^-$ at 8 GeV/c, fireball and multiperipheral models for analysis of, (E), 25:50071
interactions $\pi^- + p \to A_1^0 + n$, t-channel helicity in, 25:47889
interactions $\pi^- + p \to A_1^- + p$ at 16 GeV/c, cross sections for, (E), 23:34540
interactions $\pi^- + p \to A_1^- + p$ at 5 to 25 GeV/c in hydrogen bubble chamber, cross sections and failure of s-channel helicity conservation in, (E), 25:43664 (COO-1195-204)
interactions $\pi^- + p \to A_1^- + p$ at 5 to 25 GeV/c, failure of s-channel helicity conservation in, (E), 25:33563
interactions $\pi^- + p \to A_1^- + p$, sign of final-state proton polarization for distinction between rescattering and absorptive corrections to Pomeranchukon for, 23:51945
interactions $\pi^- + p \to A_2 + n$, $A_2 \to K_1 + K_1$ mass spectra from, (T), 24:37763
interactions $\pi^- + p \to A_2 + p$, mixing formalism of scalar fields carrying SU(3) representations for second A_2 in A_2 mass distributions in, 23:44657 (IS-T-291)
interactions $\pi^- + p \to A_2^0 + n$ at 3.16 GeV, structure in A_2^0 mass spectrum in, (E), 25:3290
interactions $\pi^- + p \to A_2^- + p + (\pi^0)$ at 7 GeV/c, production and decay of A_2 in, (E), 25:7663
interactions $\pi^- + p \to A_2^- + p$ at 3.9 and 16 GeV/c in bubble chamber, A_2^- production mechanism in, (E), 25:59279
interactions $\pi^- + p \to A_2^- + p$ at 3.9 to 16 GeV/c in bubble chamber, production mechanism of A_2^-, 1^- daughter production, and cross sections for, (E), 25:5282 (COO-1195-200)
interactions $\pi^+ + p \to A_2^+ + p$ at 4 and 6 GeV/c, Regge pole model for, 21:40225
interactions $\pi^- + p \to A_2^- + p$ at 5 and 7 GeV, mass spectra of A_2^- in, (E), 25:40887
interactions $\pi^+ + p \to A_2^+ + p$ at 5 GeV, mass spectra of A_2^+ in, (E), 25:40887
interactions $\pi^- + p \to A_2^- + p$ at 5 GeV/c in hydrogen bubble chamber, (E), 22:46334 (COO-1195-133)
interactions $\pi^+ + p \to A_2^+ + p$ at 7 GeV/c in bubble chamber, A_2 mass spectra in, (E), 25:12116
interactions $\pi^+ + p \to A_2^+ + p$ at 7 GeV/c, decay branching ratios of A_2 from, (E), 25:19920
interactions $\pi^- + p \to A_2^- + p$, $A_2^- \to \pi^- +$ neutrals near threshold energy, mass spectra of A_2 in, (E), 25:56436
interactions $\pi^- + p \to A_2^- + p$, $A_2^- \to \pi^+ + \pi^- + \pi^-$ at threshold to 2.6 GeV/c, missing-mass spectrum from, (E), 25:50077
interactions $\pi^- + p \to A_2^- + p$, analysis of A_2 production in, (E/T), 25:30877
interactions $\pi^+ + p \to A_2^+ + p$, analysis of A_2 production in, (E/T), 25:30877
interactions $\pi^- + p \to A_2^- + p$, diffraction dissociation in, 25:47889
interactions $\pi^- + p \to$ all neutrals at 784 to 5290 MeV/c, spark chamber study of N* production from, (E), 22:3277
interactions $\pi^- + p \to$ anti $p + d$ at 6 GeV/c, spark chamber study of upper limit for cross section for, (E), 22:3279

interactions $\pi^- + p \rightarrow \Delta(1236) + \gamma$, possible test of internal symmetries of electromagnetic current from, (E), 22:1406
interactions $\pi^- + p \rightarrow \Delta(1236) + \pi^- + \pi^-$ at 3.2 and 4.2 GeV/c, cross section for, 22:15690
interactions $\pi^- + p \rightarrow \Delta^0(1236) + \pi^0$ at 5 GeV/c in propane bubble chamber, cross sections from Monte Carlo generation of, (T), 25:20004 (JINR-P13-5516)
interactions $\pi^- + p \rightarrow \Delta^- + \pi^+$ at 1640 to 1760 MeV, partial-wave analysis of, (E/T), 25:27962
interactions $\pi^+ + p \rightarrow \Delta^{+}+ + A_2^0$ at 5 GeV/c, decay branching ratios and spin—parity of A_1 from, (E), 24:15488
interactions $\pi^- + p \rightarrow \Delta^-(1236) + \pi^+$ at 900 to 1100 MeV/c, partial wave analysis of, (E/T), 23:14988
interactions $\pi^+ + p \rightarrow \Delta^{++} + A_2^0$ at 5 GeV/c, branching ratios and Dalitz-plot analysis of, 24:49333
interactions $\pi^+ + p \rightarrow \Delta^{++} + A_2^0$ at 5 GeV/c, cross sections and spin-density matrix elements, (E), 25:9682
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{eta}(\mathrm{eta}')$ at 3.7 GeV/c in hydrogen bubble chamber, eta/eta' production ratio and mixing angle for, (E), 23:39612 (UCRL-19225)
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{eta}^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{eta}^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, 25:59297
interactions $\pi^+ + p \rightarrow \Delta^{++} + f^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^+ + p \rightarrow \Delta^{++} + K_1^0(K^+) + \mathrm{anti}\ K_1^0(K^-)$ at 3.56 to 3.82 GeV/c, (E), 25:45674
interactions $\pi^+ + p \rightarrow \Delta^{++} + K^+ + K^-$ at 7 GeV/c, K^+K^- mass distribution from, 25:47754
interactions $\pi^+ + p \rightarrow \Delta^{++} + \omega^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{phi}$ at 3.56 to 3.82 GeV/c, cross sections for, (E), 25:45674
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{phi}(\omega)$ at 3.7 GeV/c in hydrogen bubble chamber, phi/ω production ratio and mixing angle for, (E), 23:39612 (UCRL-19225)
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, 25:59297
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^+ + \pi^- +$ missing mass, mass distributions from, 25:47754
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 7 GeV/c, $\pi^+\pi^+\pi^-\pi^-$ mass distribution from, 25:47754
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^+ + \pi^-$ at 7 GeV/c, anomaly in $\pi^+\pi^-$ mass and angular distributions from, 25:47754
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^+ + \pi^-$ at 8 GeV/c, S-wave resonance effects in $\pi + \pi$ interactions from, (E/T), 25:59296
interactions $\pi^+ + p \rightarrow \Delta^{++} + \pi^+ + \pi^-$, Veneziano amplitude for neutral dipion distribution in, 24:37779 (COO-1428-219)
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{rho}^0$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^+ + p \rightarrow \Delta^{++} + \mathrm{rho}^0(\omega^0)$ at 1.95 GeV/c, total and differential cross sections for, (E), 25:14563
interactions $\pi^- + p \rightarrow \Delta^{++}(1236) + 2\pi^-$ at 4.45 GeV/c in hydrogen bubble chamber, $\pi^- + \pi^-$ interaction cross sections and virtual $\pi^- + \pi^-$ and $\pi^+ + p$ interaction angular distributions in, (E), 24:51975
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + D^0(1329)$, cross sections for, 23:42565
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{eta}$ at 1.48 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:37082
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{eta}^0$ at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^0$ at 1.1 to 1.95 GeV/c in hydrogen bubble chamber, s- and t-channel effects on angular distributions and differential cross sections for, (E), 25:43551 (UCR-34-P-107-B-108)
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^0$ at 1.34 to 1.68 GeV/c, angular distributions and cross sections for, (E/T), 22:46336 (UCR-34-P-107-72)
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^0$ at 2.34 GeV, differential cross sections for, (E), 22:24554
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^+ + \pi^- + \pi^0$ at 1.48 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:37082
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^+ + \pi^-$ at 1.48 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:37082
interactions $\pi^- + p \rightarrow \Delta^{++}(1236) + \pi^- + \pi^-$ at 3.2 and 4.2 GeV/c, $\pi^-\pi^-$ phase shifts from Coulomb interference in, 24:30448 (CONF-690521-, pp 55-74)
interactions $\pi^- + p \rightarrow \Delta^{++}(1236) + \pi^- + \pi^-$ at 3.25 GeV/c in bubble chamber, (E), 23:7100
interactions $\pi^- + p \rightarrow \Delta^{++}(1236) + \pi^- + \pi^-$ at 3.25 GeV/c, $\pi^-\pi^-$ interaction from, (E), 22:48227 (ITEF-590)
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \pi^+ + \pi^-$ at 7 GeV/c, momentum-transfer distributions in, (E), 25:14575
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{rho}$ at 1.48 GeV/c in hydrogen bubble chamber, (E), 22:37082
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{rho}$ at 1.6 to 10 GeV/c, one-pion-exchange model for, 23:42683
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{rho}^0 + \mathrm{rho}^0$, bi-peripheral model for, 22:13764
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236) + \mathrm{rho}^0\ (\omega^0)$ at 5 GeV/c, preliminary results of analysis of, (T), 22:39397 (CERN-68-7(Vol.2), pp 150-71)
interactions $\pi^+ + p \rightarrow \Delta^{++}(1236)(\Delta^+(1236)) + \pi^0(\pi^+)$ at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)
interactions $\pi^- + p \rightarrow e^- + e^+ + n$ at 1.65 GeV/c, ω—rho interference in absorptive peripheral model for, (T), 23:23482
interactions $\pi^- + p \rightarrow e^+ + e^- + n$ at 275 MeV, e^+ and e^- energy and emission angles and differential cross sections of, (E), 25:38672
interactions $\pi^- + p \rightarrow e^+ + e^- + n$ at 275 MeV, emission energies and angles for e^+ and e^- and differential cross sections for, (E), 25:12099 (JINR-P1-5398)
interactions $\pi^- + p \rightarrow e^+ + e^- + n$, general structure of matrix element and meson and proton electromagnetic form factor effects for, (E/T), 23:51829 (JINR-P2-4561)
interactions $\pi^- + p \rightarrow e^+ + e^- + n$, matrix element structure for $\pi + N \rightarrow N + \gamma$ interactions for angular distributions for, (T), 23:46719 (JINR-P2-4524)
interactions $\pi^- + p \rightarrow e^+(\mu^+) + e^-(\mu^-) + n$ near Δ(1236), isobar model with Born terms for differential and total cross sections for, (T), 25:25420
interactions $\pi^+ + p \rightarrow \mathrm{eta} + \Delta$ at high energies, Regge pole theory predictions for dipole model of A_2 exchange for angular distribution for, 23:39716
interactions $\pi^+ + p \rightarrow \mathrm{eta} + \Delta^{++}(1236)$, Regge pole predictions for, 22:7519
interactions $\pi^+ + p \rightarrow \mathrm{eta} + \Delta^{++}(1236)$, rho + R Regge-pole model for, 24:3672
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ and $\pi^- + p \rightarrow$ neutrals, eta decay branching ratio from, (E), 22:7425
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 1.6 and 2.3 GeV/c, angular distribution predictions for, (T), 25:59477
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 1.7 to 18.2 GeV/c, Regge analysis of (E/T), 25:56506
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 10 GeV/c, homogeneous Lorentz group calculation of differential cross section for, 23:8835
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 12 GeV/c, polarization in, 23:23478
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 2.5 to 20 GeV/c, A_2 Regge trajectory in, (T), 25:25421
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 2.9 to 18.2 GeV/c, heavy-plate spark chamber study of differential cross sections for, (E), 25:5279 (CEA-R-4037)
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 3 to 18 GeV, Regge pole model for polarization and cross section for, 22:9602
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 3.20 to 5.00 GeV/c, polarization and F/D coupling ratio for N(2650) for, (T), 22:20258
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 3.72 and 18.2 GeV/c, comparison of quark model and experimental cross sections for, 23:36928 (INR-P-1047)
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 5.9 and 11.2 GeV/c, polarization parameter in, 24:49347
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 561 to 1300 MeV, partial wave amplitudes for, (T), 22:17961
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 592 to 1300 MeV, production and decay of eta in, (E), 24:24242
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 593 to 704 MeV, differential cross sections for eta production in, (T), 22:5587
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 670 to 805 MeV/c, differential cross sections for π charge-exchange and eta production in, (E), 22:15689
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 718 to 1050 MeV/c, differential and total cross sections for, (E), 23:36841
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 763 MeV/c, branching ratios for eta decay modes from, 23:23339
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 763 MeV/c, missing-mass spectrometer study of eta decays from, 22:5493
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at 780 MeV/c, eta neutral decays from, (E), 21:17027
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ at high energies, Regge theory and SU(3) representation mixing for, 23:44657 (IS-T-291)
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ below 2 GeV, pole—resonance model with A_2 exchange in, 24:8649
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ in nuclei at 7.82 GeV/c, differential cross sections for, (E), 25:56432
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ near threshold, cross sections and eta width from, (E), 21:5357
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$ with A_2 exchange, K-matrix absorption model in U(6,6) x O(3,1) for, 25:56513
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, ambiguities in determination of Regge-pole parameters for R-exchange, 21:37822
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, at high energies, Regge pole model for polarization prediction for, 21:42359
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, complex A_2 Regge trajectory for analyzing, (T), 25:59479
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, consistency condition for, 22:46428
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, continuous-moment sum rules and absorption Regge cuts, 23:42680
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, differential cross sections using SU(3) symmetry and Regge poles for, (T), 23:5626
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, double-pole characteristics of A_2 and n polarization in, 22:50398
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, double-pole model for A_2 exchange in, (T), 25:17482
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, duality concept for imaginary part of Regge trajectories for, 25:28036
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, $\mathrm{eta} \rightarrow 2\gamma$ at 4 GeV/c in small transfer range, spark chamber and Cherenkov spectrometer study of cross sections for, (E), 24:26378
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, generalized interference model for eta production in, 24:15586
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, generalized interference model of, 24:49509
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, low-energy resonance parameters from, 23:18913
interactions $\pi^- + p \rightarrow \mathrm{eta} + N$, N^* resonant states and decay modes from, 22:9601
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, partial-wave analysis in terms of homogeneous Lorentz group for, 22:7516
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, partial-wave analysis of, 23:32742
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, quark model predictions for, (E/T), 24:1595
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge cuts for polarization in, 23:44666
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge dipole model of A_2 for differential cross sections and duality in, (T), 25:14704
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge pole model with flat trajectories for, 24:49493
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge poles and SU(3) symmetry for, 22:1439
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge-dipole model of A_2 for, 23:36941
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge-pole analysis of, 22:46433
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge-pole model with absorptive corrections for, 23:23490
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Regge-pole model with L—S coupling for, 22:20264
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, scattering length for, (T), 22:22401
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, secondary Regge contributions in, 25:56508
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, separability and unitarity concepts for differential cross sections for, 21:44382
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, SU(3) predictions for, 22:46490
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, sum rules based on Regge pole model for, 21:17130
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, use of SU(3) in coherent-droplet model for differential cross section for, 21:42429
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Veneziano model for, 24:40406
interactions $\pi^- + p \rightarrow \mathrm{eta} + n$, Veneziano model for intimate connection between resonance parameters and residue functions for forward and backward differential cross sections for, 24:10760 (SU-1206-215)
interactions $\pi^+ + p \rightarrow \mathrm{eta}^0 + \Delta^{++}$ at 1.2 to 2.67 GeV/c, test of A_2 Regge-pole exchange in, (E/T), 25:33733
interactions $\pi^+ + p \rightarrow \mathrm{eta}^0 + \Delta^{++}$, exchange of rho and A_2 Regge trajectories in, 23:36932
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at 1.71 to 2.46 GeV/c, Regge pole model for, (E/T), 23:18816
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at 10 GeV/c, differential cross section for, (E), 22:26566
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at 3.2 to 5.0 GeV/c, polarization in, (E), 22:13667
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at 720 MeV in hydrogen bubble chamber, contribution to $\pi^- + \pi^+ \rightarrow n + \pi^0$ final state and upper limit for, (E), 22:15687
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at high energies, analysis of inelastic, (E), 21:9805
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$ at high energies, Regge pole theory for, 21:29541
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, A_2' Regge pole in, 24:49525
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, $\mathrm{eta}^0 \rightarrow \mu^- + \mu^+$, cross section and branching ratio for, (E), 23:27753
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, eta^0 production and decay from, (E), 24:37604
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, interference model for cross sections and polarization in, 25:47869
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, moving branch points in complex momenta method for, (E/T), 24:24382
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, Regge A_2 and rho trajectories from, 21:40218 (NP-16952)
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, Regge pole amplitudes with absorptive corrections for, 24:13102
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, Regge-pole analysis of, 21:27376
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + n$, scintillation counter study of, (E), 24:49326 (UCRL-20039)
interactions $\pi^- + p \rightarrow \mathrm{eta}^0 + p$ at 860 MeV/c, scintillation counter and spark chamber study of, (E), 23:51832 (NEVIS-174)
interactions $\pi^- + p \rightarrow \mathrm{eta}_8 + n$, real to imaginary ratio of forward amplitude of, 22:29707
interactions $\pi^+ + p \rightarrow f^0 + \Delta(1236)$, Regge-pole model for π exchange in, 22:26657
interactions $\pi^+ + p \rightarrow f^0 + \Delta^{++}$ at 13.1 GeV/c in hydrogen bubble chamber, cross sections and dipion mass spectrum for, (E), 25:5283 (COO-1428-238)
interactions $\pi^+ + p \rightarrow f^0 + \Delta^{++}$ at 13.1 GeV/c in hydrogen bubble chamber, differential cross sections and dipion mass spectrum in, (E), 25:17400
interactions $\pi^+ + p \rightarrow f^0 + \Delta^{++}$ at 7 GeV/c in hydrogen bubble chamber, mass spectra and decay angular distributions of f^0 from, (E), 25:25317
interactions $\pi^+ + p \rightarrow f^0 + \Delta^{++}$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $\pi^- + p \rightarrow f^0 + n$ at 15 and 16 GeV/c in heavy liquid bubble chamber, cross sections for, (E), 25:30741
interactions $\pi^- + p \rightarrow f^0 + n$ in meson (π^-) reactions with nuclei at 2 to 6 GeV/c, $f^0 \rightarrow \pi^+ + \pi^-$ in, (E), 22:13666
interactions $\pi^- + p \rightarrow f^0 + n$, Regge-pole-exchange predictions for, 21:25301
interactions $\pi^- + p \rightarrow f^0(1250) + n \rightarrow \pi^+ + \pi^- + n$ at 4.16 GeV/c, (E), 22:39293
interactions $\pi^- + p \rightarrow g^0 + n$, $g^0 \rightarrow \pi^+ + \pi^- + \pi^+ + \pi^-$ at 4.7 and 5.74 GeV/c in hydrogen bubble chamber, (E), 23:30714
interactions $\pi^- + p \rightarrow \gamma + \gamma + n$ at 54 MeV, scintillation counter study of charge exchange and radiative capture differential cross sections for, 21:29453 (UCRL-11697)

interactions $\pi^- + p \rightarrow \gamma + \gamma + n$ at rest, angular correlations in, (E), 23:23373
interactions $\pi^- + p \rightarrow \gamma + \gamma + n$ at rest, scintillation and gas-counter hodoscope study of γ angular correlation from, 21:31527 (JINR-P1-3285)
interactions $\pi^- + p \rightarrow \gamma + n$ and $\pi^- + p \rightarrow \pi^0 + n \rightarrow n + \gamma + \gamma$ at 40 MeV, gamma spectra for, (E), 25:3550
interactions $\pi^- + p \rightarrow \gamma + n$ at 1245 and 1337 MeV, spark chamber and neutron counter study of angular distributions and differential cross sections for, (T), 25:14567
interactions $\pi^- + p \rightarrow \gamma + n$ at 1245 to 1363 MeV, test of ΔI less than or equal to 1 rule and time reversal invariance in angular distributions and differential cross sections for, (E), 25:14566
interactions $\pi^- + p \rightarrow \gamma + n$ at 220 to 380 MeV/c, differential cross sections for, (E), 24:28492
interactions $\pi^- + p \rightarrow \gamma + n$ at 4.0 GeV/c, absorptive peripheral model for cross sections for, 21:15344
interactions $\pi^- + p \rightarrow \gamma + n$ at 490 MeV/c, Roper resonance production in $\gamma + n \rightarrow \pi^- + p$ interactions from differential cross sections for, (E), 23:49027 (UCLA-34-P-106-42)
interactions $\pi^- + p \rightarrow \gamma + n$ at 54 MeV, scintillation counter study of charge exchange and radiative capture differential cross sections for, 21:29453 (UCRL-11697)
interactions $\pi^- + p \rightarrow \gamma + n$ at 54 MeV, total-absorption counter study of differential cross sections for, (E), 22:29636
interactions $\pi^- + p \rightarrow \gamma + n$, electromagnetic couplings of baryon resonances from, (T), 22:1405 (TH-210)
interactions $\pi^- + p \rightarrow \gamma + n$, electromagnetic couplings of N^{**} resonances from, (T), 22:35007
interactions $\pi^- + p \rightarrow \gamma + \pi^- + p$, γ spectrum in, 22:46421 (JINR-P2-3931)
interactions $\pi^- + p \rightarrow$ hyperons + antihyperons at 25 GeV/c, cross sections for, (E), 24:20078
interactions $\pi^- + p \rightarrow K + \text{anti } K + N + m\pi$ at 4.0 GeV/c, longitudinal and transverse momentum of secondary particles from, (E/T), 23:32634
interactions $\pi^+ + p \rightarrow K^+ + \Sigma(1385)$ at 4 and 5.05 GeV/c, test of SU(3) symmetry from counter and spark chamber study of differential cross sections for, (E), 25:5290
interactions $\pi^+ + p \rightarrow K^{*+} + \Sigma^+$ at 5 to 8 GeV/c mediated by K exchange, absorptive corrections to, 21:15360
interactions $\pi^- + p \rightarrow K^0 + \text{anti } K + N + m\pi$ at 20 GeV in hydrogen bubble chamber, cross sections for, (E), 24:45445
interactions $\pi^- + p \rightarrow K^0 + \text{anti } K^0 + n$ at 12 GeV/c, generalized Veneziano model for, (T), 25:59492
interactions $\pi^- + p \rightarrow K^0 + \text{anti } K^0 + n$ at 4 and 6.2 GeV/c, spark chamber study of S^*, f^0, A_2, and (1420) enhancement production in, (E), 25:17385
interactions $\pi^- + p \rightarrow K^0 + \text{anti } K^0 + n$ at 5, 7, and 12 GeV/c in spark chamber, cross sections, branching ratios, and resonance parameters for $S^*(1070)$, f^0, and A_2 production in, (E), 21:44284
interactions $\pi^- + p \rightarrow K^0 + \text{anti } K^0 + n$, double Regge model for anticornering effect in Dalitz plot for, 23:23483
interactions $\pi^- + p \rightarrow K^0 + K^- + p$ at 2.5 to 13 GeV in Veneziano model, crossing-symmetric description of, 24:52091
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 0.90 to 1.95 GeV/c, phase shift analysis of, 25:14727
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 1.17 and 1.32 GeV/c, Λ polarization in, (E), 21:5359
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 1.400 to 2.000 GeV in bubble chamber, cross sections, polarization, and exchange degeneracy test in, (E), 25:47741 (SLAC-131)
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 2 to 10 GeV/c, energy dependence of cross sections for, 23:39732
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 2.5 GeV/c in hydrogen bubble chamber, strange particle production from, 21:35266 (COO-1195-94)
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at 3.9 GeV/c, differential cross sections and polarizations for, (E/T), 25:25335
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ at low energies, resonance model for, 21:33713
interactions $\pi^- + p \rightarrow K^0 + \Lambda$ in nuclei, tests of unitary symmetry by, 21:33750
interactions $\pi^- + p \rightarrow K^0 + \Lambda$, cross section maximum at 1690 MeV in, 23:21094
interactions $\pi^- + p \rightarrow K^0 + \Lambda$, generalized Veneziano model for, (E/T), 25:1537
interactions $\pi^- + p \rightarrow K^0 + \Lambda$, partial-wave analysis for test of Harari—Freund hypothesis from, 25:53179 (UCRL-20655, pp 169-75)
interactions $\pi^- + p \rightarrow K^0 + \Lambda$, Reggeized baryon exchange model for Λ polarization and angular distribution for backward, 23:27806
interactions $\pi^- + p \rightarrow K^0 + \Lambda$, test of empirical rule for cuts and line reversal relations in absorption model prediction for Λ polarization in, (T), 25:36502 (CALT-68-300)
interactions $\pi^- + p \rightarrow K^0 + \Lambda(\Sigma^0)$ at 6 to 11.2 GeV/c, spark chamber study of differential cross sections and Λ/Σ^0 ratio at 11.2 GeV/c for associated production in, (E), 23:39616
interactions $\pi^- + p \rightarrow K^0 + \Lambda(\Sigma^0)$, differential cross sections for, (E), 23:10817
interactions $\pi^- + p \rightarrow K^0 + \Lambda(\Sigma^0)$, Regge-pole analysis of, 22:46433
interactions $\pi^- + p \rightarrow K^0 + \Lambda(\Sigma^0)$, Reggeized U(6) X U(6) X O(3) absorptive peripheral model for, 25:1536
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0 (\Sigma^0)$ at 6 to 11.2 GeV/c spark chamber study of differential cross sections for, (E), 22:39277 (CERN-68-7(Vol.2), pp 190-207)
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$ at 6 to 11.2 GeV/c, spark-chamber study of associated production in, (E), 23:23374
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$ at high energies, double Regge pole model and O(3,1) symmetry for, 23:27816
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$, N^* production in, 23:10766
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$, Regge pole model for, 22:15797
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0$, Regge pole theory for, 21:29541
interactions $\pi^- + p \rightarrow K^0 + \Lambda^0(\Sigma^0)$ at 4 GeV/c, spark chamber spectrometer study of forward and backward, (E), 22:7448
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at 1.17 and 1.32 GeV/c, Σ^0 polarization in, (E), 21:5359
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at 1200 to 1400 MeV/c in spark chamber, Σ^0 angular distribution and polarization from, (E), 21:25243
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at 2.5 GeV/c in hydrogen bubble chamber, strange particle production from, 21:35266 (COO-1195-94)
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at 3.9 GeV/c, differential cross sections and polarizations for, (E/T), 25:25335
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at 6 to 11.2 GeV/c, spark-chamber study of associated production in, (E), 23:23374
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$ at high energies, double Regge pole model and O(3,1) symmetry for, 23:27816
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$, Regge pole model for, 22:15797
interactions $\pi^- + p \rightarrow K^0 + \Sigma^0$, Regge pole theory for, 21:29541
interactions $\pi^- + p \rightarrow K^0 + Y^0$ in Regge-pole model, laboratory momentum dependence of total cross section for, 24:15583
interactions $\pi^- + p \rightarrow K_1 + K_1 + N$, evidence of I = 0, J = 0, K^0antiK^0 bound state from, (E/T), 23:27756
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + m\pi$ at 25 GeV/c, cross sections for, (E), 24:20078
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 12 GeV/c, analysis of resonance parameters for $S^*(1070)$ production in, (T), 23:7150
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 12 GeV/c, double Regge analysis of, 21:46543
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 4 and 5 GeV/c, $K_1^0K_1^0$ threshold enhancement in, (E), 22:41745
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 4 GeV/c, $K_1^0K_1^0$ threshold enhancement in, (E), 23:8752
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 4- and 5-GeV/c threshold $K_1^0K_1^0$ enhancement in, (E), 24:3528
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$ at 6 and 12 GeV/c, cross sections for $\pi^- + \pi^+ \rightarrow K_1^0 + K_1^0$ interactions from, (E), 24:42880 (UH-511-74-70)
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$, crossing-symmetric description of, 25:50141
interactions $\pi^- + p \rightarrow K_1^0 + K_1^0 + n$, $K_1^0K_1^0$ mass spectrum for, (T), 21:42366
interactions $\pi^- + p \rightarrow K_1^0 + \Lambda(\Sigma^0) + m\pi$ at 25 GeV/c, cross sections for, (E), 24:20078
interactions $\pi^- + p \rightarrow K_1^0 + \Sigma^+(\Sigma^-) + m\pi$ at 25 GeV/c, cross sections for, (E), 24:20078
interactions $\pi^- + p \rightarrow K_2^0 + K^- + p$ at 4.5 GeV/c, production and decay of A_2^- from, (E), 25:36409
interactions $\pi^+ + p \rightarrow K^+ + K^{*-} + \Delta^{++}$, generalized Veneziano model for, (E/T), 25:22832
interactions $\pi^- + p \rightarrow K^- + K_1^0 + p$ at 17.2 GeV/c, A_2^- mass spectrum in, (E), 25:22691
interactions $\pi^- + p \rightarrow K^- + K_1^0 + p$ at 20.3 GeV/c, magnetic spectrometer study of A_2 and $K^0K^-(1425)$ enhancement production in forward, (E), 25:17394
interactions $\pi^- + p \rightarrow K^- + K_1^0 + p$ at 6 GeV/c, production of K anti K(1640) enhancement in, (E), 23:5536
interactions $\pi^+ + p \rightarrow K^+ + K_1^0 + p$ at 6 GeV/c, production of K anti K(1640) enhancement in, (E), 23:5536
interactions $\pi^- + p \rightarrow K^+ + K^- + n$ at 11 GeV/c, cross sections for $\pi^- + \pi^+ \rightarrow K^+ + K^-$ interactions from, (E), 24:42880 (UH-511-74-70)
interactions $\pi^- + p \rightarrow K^+ + K^- + n$ at 11 GeV/c, $K^+K^-(1018)$ and $K^+K^-(1063)$ enhancements in, (E), 24:30458 (CONF-690521-, pp 529-32)
interactions $\pi^- + p \rightarrow K^+ + K^- + n$ at 11.04 GeV/c, mass and width of phi from optical spark chamber study of, (E), 25:59301
interactions $\pi^- + p \rightarrow K^+ + K^- + n$ at 2.10 GeV/c in bubble chamber, cross section for phi production in, (E), 22:24566
interactions $\pi^+ + p \rightarrow K^+ + \Lambda + \pi^+$ at 8 GeV/c in bubble chamber, $\Sigma^+(1385)$ decay distributions and Λ polarization in, (E), 25:14559 (INP-731)
interactions $\pi^+ + p \rightarrow K^+ + p$ at low energies, cross section for weak, (T), 24:45483
interactions $\pi^+ + p \rightarrow K^+ + p$ pole model calculation of cross section for weak, (T), 25:7610 (IFT-70/6)
interactions $\pi^+ + p \rightarrow K^+ + \pi + \Sigma$ at 1.7 GeV/c in bubble chamber production of $\Sigma(1385)$ and $\Sigma(1475)$ in, (E), 23:46612 (PPAR-17)
interactions $\pi^+ + p \rightarrow K^+ + \pi^+ + \Lambda$ at 1.7 GeV/c in hydrogen bubble chamber, production of $\Lambda\pi(1480)$ resonance in, (E), 23:46611 (PPAR-16)
interactions $\pi^+ + p \rightarrow K^+ + \pi^+ + \Lambda$ at 1.7 GeV/c, production of $\Lambda\pi^+(1480)$ enhancement in, (E), 23:49052
interactions $\pi^- + p \rightarrow K^+ + \pi^- + \Lambda$ at 1.8 to 4.2 GeV/c in bubble chamber, single-meson exchange in forward peaks in differential cross sections for $\Sigma^-(1385)$ production in, (E), 23:42573
interactions $\pi^+ + p \rightarrow K^+ + \pi^+ + \Lambda$ from generalized Veneziano model for $K^- + p \rightarrow \pi^- + \pi^+ + \Lambda$ interactions, 24:52096
interactions $\pi^- + p \rightarrow K^+ + \Sigma(1385)$ at 2.75 to 14.0 GeV/c, cross sections for, (E), 25:28038
interactions $\pi^+ + p \rightarrow K^+ + \Sigma(1385)$ at 3 to 7 GeV/c, differential cross section for, (E), 25:40885
interactions $\pi^+ + p \rightarrow K^+ + \Sigma(1385)$ at 4.0 and 5.05 GeV/c, differential cross section of, (E), 24:1524
interactions $\pi^+ + p \rightarrow K^+ + \Sigma(1385)$ at 5.5 GeV/c, comparison of $K^- + p \rightarrow \pi^- + \Sigma(1385)$ interaction rate with, (E), 24:3541
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ and $K^- + p \rightarrow \pi^- + \Sigma^+$, test of (K^*,K^{**}) exchange degeneracy in, (E/T), 24:51966
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 1.143 GeV/c, determination of relative parity of $K\Sigma N$ from, (E), 21:13679 (UCRL-17230)
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 1.280 GeV/c, optical spark chamber study of, (E), 25:7547
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at 2 to 16 GeV/c, Regge cut model for near-forward differential cross sections for, 25:59483
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at 2.5 GeV/c in hydrogen bubble chamber, strange particle production from, 21:35266 (COO-1195-94)
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 2.75 to 14 GeV/c, forward differential cross sections and polarization for, (E), 25:36410
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at 2.75 to 14.0 GeV/c, cross sections for, (E), 25:28038
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at 2.75 to 3.50 GeV/c, forward cross sections for, (E), 25:47750
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3 to 5 GeV/c, spark chamber spectrometer study of differential cross sections and polarization for, (E), 25:22698
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3 to 7 GeV/c in wire spark chambers, differential cross section and polarization for, (E), 23:36846
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3 to 7 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3 to 7 GeV/c, differential cross section for, (E), 25:40885
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3, 4, and 5 GeV/c, differential cross section and Σ^+ polarization in, (E), 24:32966
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3.00 to 7.00 GeV/c, wire spark chamber study of differential cross sections and Σ^+ polarization in, (E), 24:40272
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 3.23 GeV/c, Regge pole model of K^* and K^{**} exchange in, (E/T), 23:39724
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at 5.0 GeV, spark-chamber study of cross sections and polarizations for, (E), 25:47747
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at high energies, double Regge pole model and O(3,1) symmetry for, 23:27816
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$ at high energies, estimations of double scattering contributions for Regge cuts and secondary trajectories in, 23:51961
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at high energies, exchange-degenerate Regge-cut model for, 25:50143
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ at high energies, theory of polarization for, 23:18924
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ in Regge-pole model, laboratory momentum dependence of total cross section for, (T), 24:15583
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$ partial-wave analysis for test of Harari—Freund hypothesis from, 25:53179 (UCRL-20655, pp 169-75)
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, contribution of Regge branch points to amplitude of, 22:20263
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, cross section relations in quark model for forward, 21:35313
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, cross section relations in quark model for forward, 21:35313
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, determination of K Σ N parity from, 22:22316
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, duality for correspondence between K^* exchange amplitude and Δ and Λ resonance amplitude in, 24:1599
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, duality for nonet degeneracy in, 24:24381
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, performance of spark chamber on-line to ASI 6020 computer for studying, 23:33502 (ANL-7515, pp 233-43)
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, quark model and multiple-scattering formalism for, 22:52985
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, Regge cut in, 22:3426
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, Regge cuts in exchange degenerate trajectories for, 24:3673
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, Regge pole model for, 22:15797
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, Regge-pole analysis of, 22:46433
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, Reggeized U(6) X U(6) X O(3) absorptive peripheral model for, 25:1536
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, relativistic extensions of SU(6) for, 23:16982
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, resonances in partial-wave projection of Regge pole fit to, 22:44430
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, spark chamber study of π^-, K^+, and Σ^- decay products in, (E), 25:55048
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-$, $\Sigma^- \rightarrow n + \pi^-$, spark chamber study of, (E), 25:55049
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, test of empirical rule for cuts and line reversal relations in absorption model predictions for Σ polarization in, (T), 25:36502 (CALT-68-300)
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+$, use of polarized target for $K\Sigma N$ parity from, (E), 22:13673
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+(1385)$ and $K^- + p \rightarrow \pi^- + \Sigma^+(1385)$, test of (K^*,K^{**}) exchange degeneracy in, (E/T), 24:51966
interactions $\pi^- + p \rightarrow K^+ + \Sigma^-(1385)$ at 4.5 and 6 GeV/c, production mechanism for forward, (E/T), 25:43558

interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+(1385)$ in Regge-pole model, laboratory momentum dependence of total cross section for, 24:15583
interactions $\pi^+ + p \rightarrow K^+ + \Sigma^+(1385)$, Regge pole model for, (T), 24:49502
interactions $\pi^- + p \rightarrow K^+ + \Xi^-$ at 8 and 16 GeV/c, upper limits for Σ^{*-} production in, (E), 24:18079
interactions $\pi^+ + p \rightarrow K^+ + Y + n\pi$, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions $\pi^+ + p \rightarrow K^+ + Y^{**}$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^- + p \rightarrow K^+ + Y^{*-}$ at high energies, cross sections for, (E/T), 24:24378
interactions $\pi^+ + p \rightarrow K^+ + Y^{*+}$, eikonal model with unitarity corrections for dual description of, (T), 25:36514
interactions $\pi^+ + p \rightarrow K^+ + Y^{*+}$, eikonal-like pole-cut model for, 25:28044
interactions $\pi^+ + p \rightarrow K^+ + Y^{*+}$, unitarity corrections to Veneziano model for factorization, exchange degeneracy, and duality in, (T), 25:1533 (UCSD-10-P-10-76)
interactions $\pi^+ + p \rightarrow K^+ + Y^{*+}(1385)$, comparison of Regge-pole model and absorption model for, 23:32739
interactions $\pi^- + p \rightarrow K^+ + Y^-$ at 1.0 to 2.75 GeV/c, spark chamber study of Y^* production from, (E), 22:13658
interactions $\pi^- + p \rightarrow K^- + Z^*$ at 6 and 8 GeV/c, upper limit for production of strangeness +1 baryons in, (E), 23:27752
interactions $\pi^+ + p \rightarrow K^+ (K^-) + K^0 + \pi^+ + \pi^- (\pi^+) + p$ at 8.04 GeV/c in hydrogen bubble chamber, production cross section for $X^+(2820)$ in, (E), 25:53024 (IFA-HE-74)
interactions $\pi^+ + p \rightarrow K^{+*} + \Sigma^+$ at 4 and 5.4 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^+ + p \rightarrow K^{+*} + Y^*$ at 8 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^- + p \rightarrow l^+ + l^- + n$, radiative corrections for vector meson production and decay in, (T), 22:32070
interactions $\pi^- + p \rightarrow \Lambda + \text{anti } \Lambda + n$ at 12 GeV/c, asymmetries in angular distribution and Λ(anti Λ) polarization from, (E/T), 23:34611
interactions $\pi^- + p \rightarrow \Lambda + \text{anti } \Lambda + n$ at 7 and 12 GeV/c, cross sections, angular distributions, and Λ(anti Λ) polarizations in, (E), 23:7095
interactions $\pi^- + p \rightarrow \Lambda + \gamma$ at 5.1 GeV/c in propane bubble chamber, cross section for Λ(1327) production in, (E), 24:3537
interactions $\pi^+ + p \rightarrow \Lambda + K + m\pi$ (m greater than 2) at 7.5 and 8 GeV, $\pi\pi$ angular correlations and asymmetry coefficients for, (E), 24:52088
interactions $\pi^- + p \rightarrow \Lambda + K + m\pi$ (m greater than 2) at 7.5 and 8 GeV, $\pi\pi$ angular correlations and asymmetry coefficients for, (E), 24:52088
interactions $\pi^- + p \rightarrow \Lambda + K + \pi + \pi + \pi + \pi$ at 7 GeV/c, $K\pi\pi(1256)$ enhancement in, (E), 24:49344
interactions $\pi^- + p \rightarrow \Lambda + K + \pi + \pi$ at 6 GeV/c in hydrogen bubble chamber, resonance production from, 21:31530
interactions $\pi^+ + p \rightarrow \Lambda + K + \pi + \pi$ at 8 GeV/c, cross sections for strange particle and resonance production in, (E), 23:36839
interactions $\pi^+ + p \rightarrow \Lambda + K + \pi$ at 8 GeV/c, cross sections for strange particle and resonance production in, (E), 23:36839
interactions $\pi^- + p \rightarrow \Lambda + K^{*0}$ at 1.6 to 4.2 GeV/c, (E), 21:42273
interactions $\pi^- + p \rightarrow \Lambda + K^0 + \gamma$, magnetic moment of Σ^0 - Λ transition from cross section for, (T), 22:29705
interactions $\pi^- + p \rightarrow \Lambda + K^0$ and $K^- + N \rightarrow \Lambda + \pi$, test of (K^*,K^{**}) exchange degeneracy in (E/T), 24:51966
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1.03 and 1.06 GeV/c, spark chamber study of Λ polarization from, (E), 22:9504
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1.05 GeV/c, Λ magnetic moment from, (E), 25:33518
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1.5 GeV/c, cross sections and angular distributions for, (E), 22:24561
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1.5 to 4.2 GeV/c in hydrogen bubble chamber, cross sections for, (E), 22:5510
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1030 and 1170 MeV/c, $K^0 + p$ and anti $K^0 + p$ interactions from, (E), 25:38666
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 1128 to 1326 MeV/c, angular distributions, cross sections, and polarizations for, (E), 21:3989
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 4 and 6.2 GeV/c, differential cross sections and Λ polarization in backward, (E), 24:51982
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 5 to 12 GeV/c, spark chamber study of backward peak in associated production from, (E), 22:9515
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 788 to 913 MeV, cross sections for, (E), 24:10679
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 790 to 1060 MeV, spark chamber study of narrow (893) enhancement in, (E), 23:34535 (PPAR-12)
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 790 to 1060 MeV, spark chamber study of (893) enhancement in, (E), 23:34543
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 944 to 1170 MeV/c in hydrogen bubble chamber, differential and total cross sections, polarization, and partial-wave analysis for, (E), 24:18077 (UCRL-18139)
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at 944 to 1170 MeV/c in hydrogen bubble chamber, differential and total cross sections, polarizations, and partial-wave analysis for, (E/T), 25:12109
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at threshold to 1.13 GeV/c, total cross sections for, (E), 25:33562
interactions $\pi^- + p \rightarrow \Lambda + K^0$ at threshold to 1200 MeV, pole-resonance model for parameters of, 22:50400
interactions $\pi^- + p \rightarrow \Lambda + K^0$ in spark chamber, time-dependence of K^0 decays from, (E), 21:25227
interactions $\pi^- + p \rightarrow \Lambda + K^0$ near threshold, phenomenological model for, 22:13762
interactions $\pi^- + p \rightarrow \Lambda + K^0$, duality diagrams with exotic t-channel exchanges for, 25:47859 (COO-2009-25)
interactions $\pi^- + p \rightarrow \Lambda + K^0$, mixing parameters for K^0antiK^0 system from, (T), 21:18990 (UCRL-16475(Rev.))
interactions $\pi^- + p \rightarrow \Lambda + K^0$, Regge fermion exchange in, 22:46453
interactions $\pi^- + p \rightarrow \Lambda + K_1^0 + \pi^0$ at 6 GeV/c in hydrogen bubble chamber, ΛK(1700) enhancement in, (E), 22:3273
interactions $\pi^+ + p \rightarrow \Lambda + K^+ + \pi^+$ at 1.1 to 2.4 GeV/c in deuterium bubble chamber, mass, width, and angular distribution for Σ(1385) production in, (E), 23:46613 (UCRL-19263)
interactions $\pi^+ + p \rightarrow \Lambda + K^+ + \pi^+$ at 1.1 to 2.4 GeV/c, Σ(1385) production in, (E), 24:45437
interactions $\pi^+ + p \rightarrow \Lambda + K^+ + \pi^+$ at 1.7 GeV/c, production of Σ(1475) hyperon resonances in, (E), 24:45438
interactions $\pi^+ + p \rightarrow \Lambda + K^+ + \pi^+$ at 1.95 GeV/C in hydrogen bubble chamber, cross sections and Y_1^* (1385) and N_1^* (1688) production in, (E), 21:44283
interactions $\pi^+ + p \rightarrow \Lambda + K^+ + \pi^+$ at 6 GeV/c in hydrogen bubble chamber, ΛK(1700) enhancement in, (E), 22:3273
interactions $\pi^- + p \rightarrow \Lambda + K^+ + \pi^-$ at 6 GeV/c in hydrogen bubble chamber, ΛK(1700) enhancement in, (E), 22:3273
interactions $\pi^- + p \rightarrow \Lambda + K^+ + \pi^-$, five-point Veneziano amplitude for cross sections and effective-mass and angular distributions for, (T), 25:3378 (ITF-70-77)
interactions $\pi^- + p \rightarrow \Lambda + K^+(K^0) + \pi^-(\pi^0)$ at 5.0 GeV/c in hydrogen bubble chamber, (E), 22:41735 (COO-1428-72)
interactions $\pi^- + p \rightarrow \Lambda + \pi^0 + K^0$ at 1.508 GeV/c, spark chamber study of Σ(1385) production from, (E), 22:13674
interactions $\pi^- + p \rightarrow \Lambda + \mathrm{THETA} + m\pi$ at 0.9 to 16.0 GeV/c, Λ angular distributions from, (E/T), 21:17119
interactions $\pi^- + p \rightarrow \Lambda(N) + K\ (+K^0) + m\pi$ at 7.5 and 20 GeV/c in propane bubble chamber, behavior of average transverse momentum of secondaries in, (E), 25:50068
interactions $\pi^- + p \rightarrow \Lambda^0 + K + m\pi$ at 4.0 GeV/c, longitudinal and transverse momentum of secondary particles from, (E/T), 23:32634
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 0.89 to 1.13 GeV/c, spark-chamber study of, (E), 24:18085
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 1 GeV/c, K_2^0 3-body decay rate from, (E), 21:15259
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 1.12 to 1.32 GeV/c, total cross sections, angular distributions, and polarization distributions for, (E), 23:46618
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 6 GeV/c, backward peak in Λ^0 K^0 final state in, (E), 21:9715
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 895 MeV, spark chamber study of cross sections for, 21:33620
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at 900 to 1050 MeV/c, angular distribution, lifetime, and polarization of Λ^0 from, (E), 21:11741
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$ at high energies, exchange processes in, (T), 23:1641
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$, interference model for backward, 24:3677
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$, $\Lambda^0 \rightarrow p + \pi^-$ at 1.07 GeV/c, Λ^0 magnetic moment from, (E), 25:59294
interactions $\pi^- + p \rightarrow \Lambda^0 + K^0$, spark chamber momentum spectrometer for studying, (E), 23:7798
interactions $\pi^- + p \rightarrow \Lambda^0(\Sigma^0) + K^*(890)$ at 4 GeV/c, production and decay of $K^*(890)$ and cross sections for, (E), 23:1593 (JINR-P1-4049)
interactions $\pi^- + p \rightarrow \Lambda^0(\Sigma^0) + K^{*0}(890)$ at 4.0 GeV/c, total and differential cross sections of, (E), 23:27749
interactions $\pi^+ + p \rightarrow \Lambda^0(\Sigma^0) + K^0$ at 4 GeV/c, total and differential cross sections for, (E), 23:1593 (JINR-P1-4049)
interactions $\pi^- + p \rightarrow \Lambda^0(\Sigma^0) + K^0$ at 4.0 GeV/c, total and differential cross sections of, (E), 23:27749
interactions $\pi^- + p \rightarrow m\pi + p$, Monte-Carlo method for generation of, 25:45750
interactions $\pi^- + p \rightarrow \mu^+ + \mu^- + n$ at 11.1 GeV/c, 24:28489 (NP-18205)
interactions $\pi^- + p \rightarrow \mu^+ + \mu^- + n$, cross sections for μ^+ - μ^- atom production in, (T), 23:46643(T) (SLAC-Trans-97)
interactions $\pi^- + p \rightarrow n + (2,3,4,5)\pi^0$ at 1.4 to 4.0 GeV/c, cross sections for, (E), 22:48238
interactions $\pi^- + p \rightarrow N + (n-1)\ \pi$ ($n = 3$ to 7) at 11 GeV/c, Reggeized multiperipheral model for, 24:15592
interactions $\pi^- + p \rightarrow n + 2\gamma$ at 2 to 6 GeV/c, spark chamber study of cross sections for eta^0 and π^0 production in, (E), 25:12113
interactions $\pi^- + p \rightarrow n + 2\gamma$ at 3.65 GeV/c, spark chamber and scintillation counter study of eta' production in, (E), 25:9651 (COO-1764-111)
interactions $\pi^- + p \rightarrow n + 2\pi^0$ at 1.53 and 1.27 GeV/c, S-wave $\pi\pi$ enhancement in, (E), 24:18091
interactions $\pi^- + p \rightarrow n + 2\pi^0$ at 895 MeV, spark chamber study of cross sections for, 21:33620
interactions $\pi^- + p \rightarrow n + 2\pi^+ + 2\pi^- + \pi^0(2\pi^0)$ at 4 GeV/c in propane bubble chamber, cross sections and π^+ and π^- angular and momentum parameters for, (E), 24:42887
interactions $\pi^+ + p \rightarrow n + 2\pi^+$ at 50 and 100 GeV/c, spectrometer study of, (E), 24:37639 (COO-1428-210)
interactions $\pi^- + p \rightarrow n + 3\gamma$ at 2.8 GeV/c, meson resonance (1300) with $\pi^0\gamma$ decay mode from, (E), 21:17049
interactions $\pi^+ + p \rightarrow N + 3\pi(4\pi)$ at 2.34 GeV/c, cross sections for single Δ^{++}, meson (rho^0), and meson (ω^0), and joint N^*rho^0, $N^*\omega^0$, and N^*eta^0 production in, (E), 24:3522 (JINR-P1-4611)
interactions $\pi^- + p \rightarrow n + 3\pi^0$ at 895 MeV, spark chamber study of cross sections for, 21:33620
interactions $\pi^- + p \rightarrow n + 3\pi^- + 3\pi^+$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $\pi^- + p \rightarrow n + 4\ \gamma$ at 4 GeV/c, upper limit on eta $\rightarrow \pi^0 + \gamma + \gamma$ decay from spark-chamber study of, (E), 23:23376
interactions $\pi^+ + p \rightarrow n + 4\pi^+ + 2\pi^-$ at 8 GeV/c, modified phase space model for effective mass distributions in, 23:27805
interactions $\pi^+ + p \rightarrow n + 4\pi^+ + 2\pi^-$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $\pi^+ + p \rightarrow n + 5\pi^+ + 3\pi^-$ at 8 GeV/c in hydrogen bubble chamber, π production mechanism for, (E), 25:14558 (INP-708)
interactions $\pi^+ + p \rightarrow n + 5\pi^+ + 3\pi^-$ at 8 GeV/c, fireball and multiperipheral models for π production mechanism for, (T), 25:45746 (INP-755)
interactions $\pi^+ + p \rightarrow n + 6\pi$, four-momentum transfer distribution in, (T), 22:5596
interactions $\pi^- + p \rightarrow N + \text{anti } K + K + m\pi$ (m greater than 2) at 7.5 and 8 GeV, angular correlations, asymmetry coefficients, and Goldhaber effect in, (E), 24:52088
interactions $\pi^- + p \rightarrow n + e^+ + e^-$ at rest, π form-factor slope from, (E), 24:3499
interactions $\pi^- + p \rightarrow n + e^+ + e^-$ at rest, π^- form factor slope from, (E), 23:27736 (NP-17880)
interactions $\pi^- + p \rightarrow n + e^+ + e^-$, CP-noninvariant polarization in, 21:17123
interactions $\pi^- + p \rightarrow n + e^+ + e^-$, effect of electromagnetic structure of proton on cross sections for, 24:24361 (JINR-P2-4970)
interactions $\pi^- + p \rightarrow n + e^+ + e^-$, T invariance violation in, (E), 23:25676 (NEVIS-167)
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ at 2 to 6 GeV/c, cross sections for backward, (E), 24:10686
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ at 5.9 GeV/c, spark chamber and scintillation counter study of differential and total cross sections for backward, (E), 25:43563
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ at 707 MeV/c, spark chamber study of eta decay branching ratios from, 21:29428
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ at 780 MeV/c, eta neutral decays from, (E), 21:17022 (NEVIS-156)
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ at 895 MeV, spark chamber study of cross sections for, 21:33620
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$ near threshold, phenomenological model for, 22:13762
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$, $\mathrm{eta} \rightarrow 2\gamma$ at 5 GeV/c in propane bubble chamber, cross sections from Monte Carlo generation of, (T), 25:20004 (JINR-P13-5516)
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$, $\mathrm{eta} \rightarrow \pi^+ + \pi^- + \pi^0$, C nonconservation and charge asymmetry in, 22:50392
interactions $\pi^- + p \rightarrow n + \mathrm{eta}$, use of poles and resonances for chi^2 fits to, 22:15811
interactions $\pi^- + p \rightarrow n + \mathrm{eta}^0$ at 1.4 to 4.0 GeV/c, cross sections for, (E), 22:48238
interactions $\pi^- + p \rightarrow n + \mathrm{eta}^0$ at 654 to 1247 MeV/c, angular distributions and total cross sections for, (E), 24:12957
interactions $\pi^- + p \rightarrow n + \mathrm{eta}^0$, $\mathrm{eta}^0 \rightarrow 2\gamma$ at 5 GeV/c in propane bubble chamber, incident momentum dependence of cross sections for, 25:25313
interactions $\pi^- + p \rightarrow n + \mathrm{eta}^0(\omega^0)$ at 1.5 GeV/c, spark chamber study of photon cascade shower energy estimation for cross sections of, (E), 22:34851
interactions $\pi^- + p \rightarrow n + f^0$, $f^0 \rightarrow 2\pi^0$ at 5 GeV/c in propane bubble chamber, incident momentum dependence of cross sections for, (E), 25:25313
interactions $\pi^- + p \rightarrow n + f^0$, $f^0 \rightarrow 2\pi^0$ at 5 GeV/c in propane bubble chamber, cross sections from Monte Carlo generation of, (T), 25:20004 (JINR-P13-5516)
interactions $\pi^- + p \rightarrow n + \gamma + \gamma$ and $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2 to 6 GeV/c, spark chamber system for studying, 23:13031 (COO-1764-21)
interactions $\pi^- + p \rightarrow n + \gamma + \gamma$, method using Lorentz factor for meson resonance identification in, 22:5593
interactions $\pi^- + p \rightarrow n + \gamma$ at 0 to 40 MeV, energy dependence of differential cross section for, (E), 21:37653(R) (UCLA-34-P-106-1)
interactions $\pi^- + p \rightarrow n + \gamma$ at 1.5 to 3.8 GeV/c in u channel, spark chamber study of energy dependence of cross section for, (E), 24:51970
interactions $\pi^- + p \rightarrow n + \gamma$ at 200 to 340 MeV, preliminary results on, (E), 22:44297(R) (UCLA-34-P-106-27)
interactions $\pi^- + p \rightarrow n + \gamma$ at 310 to 479 MeV/c, scintillation and spark chamber study of differential cross sections for, (E), 23:44642(R) (UCLA-34-P-106-38)
interactions $\pi^- + p \rightarrow n + \gamma$ at 490 MeV/c, differential cross sections for, (E), 24:18081
interactions $\pi^- + p \rightarrow n + \gamma$ at high energies, translation of symmetry properties of helicity amplitudes for polarization in, (E/T), 23:46656
interactions $\pi^- + p \rightarrow n + \gamma$, liquid scintillation detector array for differential cross section measurement of, 24:21018

interactions $\pi^- + p \rightarrow N + K +$ anti $K + \pi + \pi + \pi$ at 7 GeV/c, production of $K\pi\pi(1256)$ enhancement in, (E), 24:49344
interactions $\pi^- + p \rightarrow n + K^0 + K^+ + \pi^-$ at 2.0 to 4.0 GeV/c in hydrogen bubble chamber, D(1285) production from, (E), 21:42274
interactions $\pi^- + p \rightarrow n + K^0 + K^{+-} + \pi^{-+}$ at 2.0 to 4.0 GeV/c in hydrogen bubble chamber, E(1425) production from, (E), 21:42274
interactions $\pi^- + p \rightarrow n + K^+ + K^-$ at 2.13 GeV/c, scintillation counter and neutron detector study of phi production in, (E), 23:23382
interactions $\pi^- + p \rightarrow n + K^+ + K^-$ at 50 and 100 GeV/c, spectrometer study of, (E), 24:37639 (COO-1428-210)
interactions $\pi^- + p \rightarrow n + k\pi$ (k = 2 to 8) at 16.2 GeV/c, four-momentum transfer distributions for, (E/T), 25:50074
interactions $\pi^+ + p \rightarrow n + k\pi$, neutron momentum spectra from duality diagrams for, (T), 25:53193
interactions $\pi^- + p \rightarrow N + m\pi$ at 1 to 16 GeV, statistical isospin model for final-charge-state cross section ratios for, (T), 25:14700 (JINR-P1-5471)
interactions $\pi^- + p \rightarrow N + m\pi$ at 11 GeV/c in hydrogen bubble chamber, modified multi-Regge model for one-particle momentum distributions and invariant mass distributions for, (E/T), 24:3521 (DESY-69/37)
interactions $\pi^+ + p \rightarrow N + m\pi$ at 8 GeV/c, fireball and multiperipheral models for analysis of, (E/T), 25:50071
interactions $\pi^- + p \rightarrow n + m\pi^0$ at 5 GeV/c in propane bubble chamber, cross sections from Monte Carlo generation of, (T), 25:20004 (JINR-P13-5516)
interactions $\pi^- + p \rightarrow n + m\pi^0$ at 654 to 1247 MeV/c, angular distribution and total cross sections for, (E), 24:12957
interactions $\pi^- + p \rightarrow n +$ neutral particles at 0.78 to 5.3 GeV/c, cross sections for, (E), 21:33612
interactions $\pi^- + p \rightarrow n +$ neutral vector meson, quark model for, 23:18877 (ITF-68-36)
interactions $\pi^+ + p \rightarrow n +$ neutrals at 1.52 GeV/c, counter study of upper limits for S^0 production from, (E), 21:27313
interactions $\pi^- + p \rightarrow N + n\pi$ (n = 1, 2,...) at 650 MeV in hydrogen bubble chamber, cross sections for, (E), 22:7446
interactions $\pi^- + p \rightarrow N + n\pi$ at 10 GeV/c, cross sections and multiplicity distribution for, (T), 22:29706
interactions $\pi^+ + p \rightarrow N + n\pi$ at 4 and 8 GeV/c, cross sections and multiplicity distribution for, (T), 22:29706
interactions $\pi^- + p \rightarrow n + n\pi^0$ at 5 GeV/c in propane bubble chamber, incident momentum dependence of cross sections for, (E), 25:25313
interactions $\pi^- + p \rightarrow n +$ omega, omega $\rightarrow e^+ + e^-$ at 1.67 GeV/c, cross section, decay width, and omega—phi mixing from, (E), 22:48234
interactions $\pi^- + p \rightarrow n + \omega + \pi^0$ at 4 GeV/c in propane bubble chamber, cross sections for, (E), 23:34533 (JINR-P1-4412)
interactions $\pi^- + p \rightarrow n + \omega^0$ at 1.51 GeV/c, spectrometer, spark chamber, and scintillation counter study of meson (ω^0) production in, (E), 24:3649
interactions $\pi^- + p \rightarrow n +$ phi at 1.93 GeV/e, cross section for, (E), 22:46457
interactions $\pi^- + p \rightarrow n +$ phi at 2.0 to 4.0 GeV/c in hydrogen bubble chamber, (E), 21:42274
interactions $\pi^+ + p \rightarrow N + \pi$ at 4 GeV/c, method from statistical model for branching ratio calculation for, 21:33711
interactions $\pi^- + p \rightarrow n + \pi^0 + \gamma$ at 2.8 GeV/c, resonance in $\pi^0\gamma$ system from, (E), 21:44279
interactions $\pi^- + p \rightarrow n + \pi^0 + \pi^0$ at 1 to 10 GeV/c, generalized Veneziano model for total and differential cross sections, angular distributions, and f^0 and $\Delta^0(1236)$ production cross sections for, (T), 25:50137 (JINR-P2-5943)
interactions $\pi^- + p \rightarrow n + \pi^0 + \pi^0$ at 1.5 GeV/c, spark chamber study of photon cascade shower energy estimation for cross sections of, (E), 22:34851
interactions $\pi^- + p \rightarrow n + \pi^0 + \pi^0$ at 1.53 and 1.27 GeV/c, neutron counter and spark chamber study of di-pion production in, (E), 23:14982
interactions $\pi^- + p \rightarrow n + \pi^0 + \pi^0$ at 1.77 GeV/c, very broad s-wave $\pi\pi$ resonance in cross sections for $\pi^- + \pi^+ \rightarrow 2\pi^0$ interactions from differential cross sections for, (E), 24:3534
interactions $\pi^- + p \rightarrow n + \pi^0 + \pi^+ + \pi^-$ at 4 GeV/c in propane bubble chamber, cross sections for, (E), 23:34533 (JINR-P1-4412)
interactions $\pi^- + p \rightarrow n + \pi^0$ at 1.4 to 4.0 GeV/c, cross sections for, (E), 22:48238
interactions $\pi^- + p \rightarrow n + \pi^0$ at 1.4 to 4.0 GeV/c, differential cross sections for, (E), 22:48239
interactions $\pi^- + p \rightarrow n + \pi^0$ at 150 to 600 MeV, evidence for N'(1470) from differential cross sections for, (E), 25:33571
interactions $\pi^- + p \rightarrow n + \pi^0$ at 2 to 5 GeV/c, absorptive Regge cut models for phenomenology of amplitudes for backward, (T), 23:51941
interactions $\pi^- + p \rightarrow n + \pi^0$ at 2 to 6 GeV/c using optical spark chambers, differential cross sections for, (E), 24:20080
interactions $\pi^- + p \rightarrow n + \pi^0$ at 2 to 6 GeV/c, scintillation counter study of differential cross sections for, (E), 23:30715
interactions $\pi^- + p \rightarrow n + \pi^0$ at 3, 4, and 5 GeV/c, differential cross sections for backward, (E), 23:13031 (COO-1764-21)
interactions $\pi^- + p \rightarrow n + \pi^0$ at 5.9 to 13.8 GeV/c, spark chamber study of cross sections for backward, (E), 25:47745
interactions $\pi^- + p \rightarrow n + \pi^0$ at 6 GeV/c, spark chamber study of angular distributions and cross sections for backward, (E), 24:26373
interactions $\pi^- + p \rightarrow n + \pi^0$ at 654 to 1247 MeV/c, angular distributions and total cross sections for, (E), 24:12957
interactions $\pi^- + p \rightarrow n + \pi^0$ at 895 MeV, spark chamber study of differential cross sections for, 21:33620
interactions $\pi^- + p \rightarrow n + \pi^0$ on bound hydrogen nuclei, mesic molecule model from, 21:44373
interactions $\pi^- + p \rightarrow n + \pi^0$, absorption Regge-cut model for cross sections and polarization in, 25:53206
interactions $\pi^- + p \rightarrow n + \pi^0$, N(1525) Regge trajectory contribution to backward, (T), 25:1548
interactions $\pi^- + p \rightarrow n + \pi^0$, Regge poles with kinematic cuts for, 24:35663
interactions $\pi^+ + p \rightarrow n + \pi^+ + 3\pi^+ + 2\pi^-$, Satz additive quark model sum rules for cross section for, 22:22308
interactions $\pi^- + p \rightarrow n + \pi^- + 3\pi^+ + 2\pi^-$, Satz additive quark model sum rules for cross section for, 22:22308
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + 2\pi^0$ at 4 GeV/c in propane bubble chamber, cross sections for, (E), 23:34533 (JINR-P1-4412)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + 3\pi^0$ at 4 GeV/c in propane bubble chamber, cross sections for, (E), 23:34533 (JINR-P1-4412)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + \gamma$ at 713 MeV/c, scintillation counter and spark chamber study of eta production from, (E), 22:17846
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + \gamma$, upper limit for cross sections of eta production in, (E), 24:21937(T) (NP-tr-1877)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + m\pi^0$ at 4 GeV in propane bubble chamber, angular and momentum distributions for π^- and π^+ and cross sections for, (E), 24:21937(T) (NP-tr-1877)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + m\pi^0$ at 4 GeV, cross sections for, (E), 24:15489
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + n\pi^0$ at 7 and 17 GeV/c in nuclear emulsion, angular distributions for, (E), 22:50309
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + \pi^0 + \pi^0$, $\pi^0 \rightarrow \gamma + \gamma$, $\pi^+\pi^-\pi^0$ mass spectrum from cascade kinematics of, (T), 25:7657 (JINR-P1-4926)
interactions $\pi^+ + p \rightarrow n + \pi^+ + \pi^+ + \pi^0$ at high energies, Reggion graphs for asymptotic behavior of amplitude of, 22:22403
interactions $\pi^+ + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^- + m\pi^0$ (m greater than or equal to 0) at 7.5 GeV, cross sections for, (E), 21:7461 (JINR-P1-2963)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^- + m\pi^0$ (m greater than or equal to 0), baryon and meson resonance production in, (E), 21:7461 (JINR-P1-2963)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^- + n\pi^0$ at 7.5 GeV in propane bubble chamber, cross sections, angular distributions, and resonance production in, (E), 21:33614
interactions $\pi^- + p \rightarrow n + \pi^- + \pi^+ + \pi^- + \pi^+$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 3.2 and 4.2 GeV/c, cross section for, (E), 22:15690
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 5 and 7.5 GeV/c, 3π mass spectrum from, (E), 22:48225 (COO-1195-132)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^- + \pi^- + \pi^+$ at 5 GeV/c, mass spectrum for $\pi^-\pi^+\pi^-$ from, (E), 22:37085
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^+ + \pi^- + \pi^-$ at 8 GeV/c, resonance parameters and cross sections for rho, N^{*++}, ω, eta, and β production in, 24:28496
interactions $\pi^- + p \rightarrow n + \pi^- + \pi^+ + \pi^+$, $N_1(1470)$ production and decay in, (E), 23:34623
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 1.89 to 3.2 GeV/c, determination of I = 0 $\pi\pi$ phase shift from, (E/T), 24:30520 (CONF-690521-, pp 27-54)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 11 GeV/c in hydrogen bubble chamber, total cross section and cross sections for rho^0, f^0, and g^0 production in, (E), 23:39615
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 11 GeV/c, total cross section for $\pi^+ + \pi^-$ interactions from, (E/T), 25:36509
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2 to 6 GeV/c, spark chamber study of differential cross sections and density matrix elements for rho and f^0 production in backward, (E), 25:9654 (COO-1764-114)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2 to 6 GeV/c, spark chamber study of differential cross sections for rho^0 and f^0 production in, (E), 25:12113
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2.05 to 3.22 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:3285
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2.05 to 3.22 GeV/c, resonance production and decay in, (E), 21:7467 (UCRL-16877)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 2.7 to 11.2 GeV/c, forward structure of cross sections for, (E/T), 24:15481
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 3.1 to 3.6 GeV/c, resonances in, (E), 22:35285(R) (AERE-PR/NP-13)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 50 and 100 GeV/c, spectrometer study of, (E), 24:37639 (COO-1428-210)
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 7 GeV/c, production of $g^0(1670)$ in, (E), 25:59288
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 7 GeV/c, Regge analysis of rho^0 production in, (E/T), 25:56431
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 8 GeV/c, double-Regge-model analysis of, (T), 25:14713
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 8 GeV/c, structure in f^0 and g^0 dipion mass region from, (E), 24:42881
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 8 GeV/c, total π-π cross sections for 2-GeV dipion mass region from, (E/T), 21:15356
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$ at 8.09 GeV/c in hydrogen bubble chamber, rho^0 and f^0 production in, 21:18912
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$, cross sections for, 21:7502
interactions $\pi^+ + p \rightarrow n + \pi^+ + \pi^+$, cross sections for, 21:7502
interactions $\pi^- + p \rightarrow n + \pi^+ + \pi^-$, isobar model interpretation in partial wave analysis of, (E/T), 24:1597
interactions $\pi^+ + p \rightarrow n + \pi^+ + \pi^+$, $N^*(1688)$ production from, (E), 22:3273
interactions $\pi^- + p \rightarrow n + \pi^- + \pi^+$, nucleon exchange and Treiman-Yang angle frequency distribution for, 21:5390
interactions $\pi^- + p \rightarrow n + \pi^-$, Regge exchange driving force in N/D partial-wave analysis of direct-channel resonances in, 24:3664
interactions $\pi^- + p \rightarrow n + \pi^+(2\pi^+) + \pi^-(2\pi^-) + m\pi^0$ at 4 GeV, statistical and anisotropic models for, (T), 25:12204 (JINR-P1-5431)
interactions $\pi^- + p \rightarrow n +$ rho^0, Reggeized pion-exchange model for single π production in, (T), 25:47882
interactions $\pi^- + p \rightarrow n + X^0$ at 1.50 and 1.52 GeV/c, scintillation counter and spark chamber study of, (E), 23:42655
interactions $\pi^- + p \rightarrow n + X^0$ at 1.93 GeV/c, cross section for, (E), 23:5539
interactions $\pi^- + p \rightarrow n + X^0$, $X^0 \rightarrow \gamma + \gamma$ at 1.6 GeV/c, (E), 25:59290
interactions $\pi^+ + p \rightarrow n + x\pi$ (x = 1, 2, ...) at 8 GeV/c, four-momentum transfer distribution in, (T), 22:3410 (INR-833/VI)
interactions $\pi^+ + p \rightarrow N^* + \pi$ at 4 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $\pi^+ + p \rightarrow N^* +$ rho^0 at 8 GeV/c, test of π Regge conspiracy with factorization from, (E), 22:37086
interactions $\pi^+ + p \rightarrow N^* +$ rho$^0(\omega)$ at 2.34 GeV/c, helicity amplitudes in, (E), 25:1409 (JINR-P1-5236)
interactions $\pi^+ + p \rightarrow N^* +$ rho$^0(\omega^0)$ at 2.3 GeV/c, slope parameters, differential cross sections, and angular distributions and correlations for, (T), 23:51932 (JINR-P1-4657)
interactions $\pi^- + p \rightarrow N^*(1236) + \pi^- + \pi^-$ at 8 GeV/c, total π-π cross sections for 2-GeV dipion mass region from, (E/T), 21:15356
interactions $\pi^- + p \rightarrow N^{*-} + \pi^+$, PCAC constraint for, 22:32160
interactions $\pi^- + p \rightarrow N^{*-} + \pi^+$, test of consistency condition for, 23:5624
interactions $\pi^+ + p \rightarrow N^{*++} +$ eta at 2.95 to 4.08 GeV/c, differential cross sections and decay density-matrix elements for, (E), 24:40278
interactions $\pi^+ + p \rightarrow N^{*++} + f$ at 2.95 to 4.08 GeV/c, differential cross sections and decay density-matrix elements for, (E), 24:40278
interactions $\pi^+ + p \rightarrow N^{*++} + f$ at 5.1 GeV/c, cross sections and spin-density matrix elements for, (E), 24:15490
interactions $\pi^+ + p \rightarrow N^{*++} + \omega$ at 2.95 to 4.08 GeV/c, differential cross sections and decay density-matrix elements, (E), 24:40278
interactions $\pi^+ + p \rightarrow N^{*++} + \pi^0$ and $\pi^+ + p \rightarrow N^{*+} + \pi^+$, isobar model for, 21:2476
interactions $\pi^+ + p \rightarrow N^{*++} + \pi^0$ at 2.34 GeV/c, data on, (E), 23:18806 (JINR-P1-4271)
interactions $\pi^+ + p \rightarrow N^{*++} + \pi^+ + \pi^- + \pi^0$ at 8 GeV/c in hydrogen bubble chamber, spin and parity of A_2^0 from, 21:37719
interactions $\pi^+ + p \rightarrow N^{*++} + \pi^+ + \pi^- + \pi^0$ at 8.5 GeV/c in hydrogen bubble chamber, production and decay of A_2^0 from, (E), 21:37709
interactions $\pi^- + p \rightarrow N^{*++} + \pi^- + \pi^-$ at 11 GeV/c, angular distribution and cross sections for $\pi^- + \pi^-$ interactions from, (E), 23:1601
interactions $\pi^- + p \rightarrow N^{*++} + \pi^- + \pi^-$ at 11 GeV/c, $\pi^- + \pi^- \rightarrow \pi^- + \pi^-$ interactions in, (T), 22:34978 (DESY-68/18)
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho at 2.95 to 4.08 GeV/c, differential cross sections and decay density-matrix elements for, (E), 24:40278
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho at 5.1 GeV/c, cross sections and spin-density matrix elements for, (E), 24:15490
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho^0 and $\pi^+ + p \rightarrow N^{*++} + \omega$ at 8 GeV/c, quark-model predictions for joint decay distributions in, (T), 23:13099
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho^0 and $\pi^+ + p \rightarrow N^{*++} + \omega^0$ at 5 GeV/c, test of absorption-model predictions in, (E/T), 23:5621
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho^0 at 2.34 GeV/c, helicity and spin amplitudes in, (T), 24:1587 (JINR-P1-4668)
interactions $\pi^+ + p \rightarrow N^{*++} +$ rho^0, OPE model for, 21:44371
interactions $\pi^+ + p \rightarrow N^{*++}(1238) + \pi^0$ at 2.34 GeV/c, cross sections for, (E), 23:8736 (JINR-P1-4097)
interactions $\pi^+ + p \rightarrow N^+(1688) + \pi^+$ at 2.34 GeV/c, cross sections for, (E), 23:8736 (JINR-P1-4097)
interactions $\pi^+ + p \rightarrow N^{++} + \pi^+ + \pi^-$ at 5.1 and 9.0 GeV/c, longitudinal phase space analysis of, (E/T), 25:25449
interactions $\pi^- + p \rightarrow$ neutral particle $+ n$ at rest, angular correlations in, (E), 23:23373
interactions $\pi^- + p \rightarrow$ neutral particles at 550 to 1150 MeV, $2\pi^0$, $3\pi^0$, and eta^0 production from, (E), 22:13637
interactions $\pi^- + p \rightarrow$ neutrals at 650 MeV in hydrogen bubble chamber, cross sections for, (E), 22:7446
interactions $\pi^- + p \rightarrow$ neutrals at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687

interactions $\pi^+ + p \to \omega + \Delta(1236)$ at 4 and 8 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^+ + p \to \omega + \Delta^{++}$, test of empirical rule for cuts in density matrix elements of ω in, (T), 25:36502 (CALT-68-300)
interactions $\pi^+ + p \to \omega + \Delta^{++}$, vector-dominance-model relation between $\gamma + p \to \pi^- + \Delta^{++}$ interactions and, 24:12976
interactions $\pi^+ + p \to \omega + N + \pi$ at 4 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $\pi^- + p \to \omega + n$ at 1.2 GeV/c, counter study of $\omega \to \pi^0 + \gamma$ decay branching ratio from, (E), 21:37707
interactions $\pi^- + p \to \omega + n$ at 2.10 GeV/c in bubble chamber, cross section for, (E), 22:20149
interactions $\pi^+ + p \to \omega + N^* + \pi$ at 4 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $\pi^- + p \to \omega + n$, $\omega \to e^+ + e^-$, at 4.0 GeV/c, spark chamber—Cherenkov spectrometer study of cross sections and widths for, (E), 22:1389
interactions $\pi^+ + p \to \omega + n$, rho and B Regge-pole exchange model with absorptive cuts for, 25:47864
interactions $\pi^+ + p \to \omega + N^{*++}$ at 5 GeV/c, projections on exchanged systems with well-defined quantum numbers for, 22:13758
interactions $\pi^+ + p \to \omega + N^{*++}$ at 8 GeV/c, quark model predictions for joint decay distributions from, 24:1596
interactions $\pi^+ + p \to \omega + N^{*++}$ at 8 GeV/c, quark model predictions for joint decay distributions of resonances in, 24:13092
interactions $\pi^+ + p \to \omega^0 + \Delta^{++}$ at 5 GeV/c, natural and unnatural parity exchange contributions to cross sections for, (T), 22:46458
interactions $\pi^- + p \to \omega^0 + n$ at 15 and 16 GeV/c in heavy liquid bubble chamber, cross sections for, (E), 25:30741
interactions $\pi^- + p \to \omega^0 + n$ at 3.65 to 5.5 GeV/c, scintillation counter and spark chamber study of ω^0 spin density matrix elements from, (E), 25:40878 (COO-1195-214)
interactions $\pi^- + p \to \omega^0 + n$, Regge pole theory for, 21:29541
interactions $\pi^+ + p \to \omega^0 + N^{*++}$ below 4.0 GeV/c, exact absorptive corrections and combined exchange-channels model for, (T), 23:32730
interactions $\pi^+ + p \to \omega^0 + N^{*++}$, Regge pole theory for, 21:29541
interactions $\pi^+ + p \to \omega^0 + N_{33}^{*++}$, several Regge pole hypothesis for, 21:33709
interactions $\pi^+ + p \to p + (K \text{ anti } K\pi\pi)^+$ at 8.04 GeV/c, evidence for K anti $K\pi\pi(2820)$ production in, (E/T), 25:30737
interactions $\pi^- + p \to p + (n-1)\pi$ $(3 < n < 9)$ at 5 to 16 GeV/c, Reggeized multipheral model for, 22:46427
interactions $\pi^- + p \to p + (\pi\text{rho})^-$ in double-Regge-pole model, πrho mass enhancement in backward, (T), 24:37789
interactions $\pi^- + p \to p + 2\pi + \pi^+ + \pi^0$ at high energies, quark model for, 21:37800 (DESY-67/19)
interactions $\pi^- + p \to p + 2\pi^0$ at high energies, hypothesis of limiting fragmentation for, (T), 24:52089
interactions $\pi^- + p \to p + 2\pi^+ + 3\pi^- + \pi^0$ at 12 GeV/c in hydrogen bubble chamber, (E), 24:6691(R) (UH-511-60-69)
interactions $\pi^- + p \to p + 2\pi^+ + 3\pi^- + \pi^0$ at 16 GeV/c in hydrogen bubble chamber, $\Delta^{++}(1236)$, ω^0, and rho^0 production in, (E), 22:22312 (INR-837/VI/PH)
interactions $\pi^- + p \to p + 2\pi^+ + 3\pi^-$ at 12 GeV/c in hydrogen bubble chamber, Δ^{++} production in, (E), 24:6691(R) (UH-511-60-69)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 13.1 GeV/c in bubble chamber, high-mass boson resonance production in, (E), 24:37646 (COO-1428-222)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 3.7 GeV/c, A_2^0 and Δ^{++} associated production in, (E), 25:3272 (UCRL-20050)
interactions $\pi^- + p \to p + 2\pi^- + \pi^+ + \pi^0$ at 3.9 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:15791 (UH-511-18)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 6.95 and 8.5 GeV/c in hydrogen bubble chamber, multipion resonances (1630) and (1720) production in, (E), 22:44329 (UR-875-248)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 6.95 and 8.5 GeV/c in hydrogen bubble chamber, production of multipion resonances (1630) and (1720) in, (E), 22:22323
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 7 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39289
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^- + \pi^0$ at 8.5 GeV/c in hydrogen bubble chamber, A_2 production in, (E), 22:39287
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^-$ 2.34 GeV/c, resonance production cross sections in, (E), 25:9662
interactions $\pi^- + p \to p + 2\pi^- + \pi^+$ at 100 GeV/c in hydrogen bubble chamber, diffraction dissociation in, (E), 24:37640 (COO-1428-213)
interactions $\pi^- + p \to p + 2\pi^- + \pi^+$ at 5 and 7.5 GeV/c, partial-wave analysis for spin and parity and polarization for upper and lower halves of A_2 in 3π states in, (T), 25:17486
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^-$ at 5 to 25 GeV/c, partial-wave analysis for 3π system in mass region 1.0 to 2.0 GeV, (T), 25:56482 (COO-1195-224)
interactions $\pi^- + p \to p + 2\pi^- + \pi^+$ at 5 to 25 GeV/c, partial-wave analysis for 3π system in mass region 1.0 to 2.0 GeV, (T), 25:56482 (COO-1195-224)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^-$ at 6.95 and 8.5 GeV/c in hydrogen bubble chamber, multipion resonances (1630) and (1720) production in, (E), 22:44329 (UR-875-248)
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^-$ at 7 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39289
interactions $\pi^+ + p \to p + 2\pi^+ + \pi^-$ at 8.5 GeV/c in hydrogen bubble chamber, (E), 22:39287
interactions $\pi^- + p \to p + 3\pi^- + 2\pi^+ + \pi^0$ at 5.48 GeV/c in hydrogen bubble chamber, resonance production from, 21:31529 (TID-23843)
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- + \pi^0$ at 7 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39289
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- + \pi^0$ at 7 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:39289
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- + \pi^0$ at 8 GeV/c, D^0 production in, (T), 25:12191 (INR-P-1207)
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- + \pi^0$ at 8 GeV/c, principal axis method for jet analysis for, (T), 22:20240
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- + \pi^0$ at 8 GeV/c, modified phase space model for effective mass distributions in, 23:27805
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^- (+\pi^0)$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $\pi^- + p \to p + 3\pi^- + 2\pi^+ (+\pi^0)$, Satz additive quark model for cross section relations for, 22:29699 (INR-P-881/VI/PH)
interactions $\pi^- + p \to p + 3\pi^- + 2\pi^+$ at 100 GeV/c in hydrogen bubble chamber, diffraction dissociation in, (E), 24:37640 (COO-1428-213)
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^-$ at 5 GeV/c in hydrogen bubble chamber, cross section and resonance production in, (E), 21:44282
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^-$ at 5 GeV/c, $\pi\pi$ scattering effects in, (T), 22:39372 (CERN-68-7(Vol.1), pp 595-8)
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^-$ at 7 GeV/c in hydrogen bubble chamber, resonance production in, (E) , 22:39289
interactions $\pi^- + p \to p + 3\pi^+ + 2\pi^-$ at 8 GeV/c, Chan—Loskiewicz—Allison model for, (E/T), 24:20084
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^-$ at 8 GeV/c, double OPE model for, 25:33755
interactions $\pi^+ + p \to p + 3\pi^+ + 2\pi^-$ at 8 GeV/c, modified phase space model for effective mass distributions in, 23:27805
interactions $\pi^+ + p \to p + 4\pi^+ + 3\pi^- + \pi^0$ at 8 GeV/c, fireball and multiperipheral models for analysis of, (E), 25:50071
interactions $\pi^+ + p \to p + 4\pi^+ + 3\pi^- + \pi^0$ at 8 GeV/c in hydrogen bubble chamber, π production mechanism for, (E), 25:14558 (INP-708)
interactions $\pi^+ + p \to p + 4\pi^+ + 3\pi^-$ at 8 GeV/c in hydrogen bubble chamber, π production mechanism for, (E), 25:14558 (INP-708)
interactions $\pi^+ + p \to p + 4\pi^+ + 3\pi^-$ at 8 GeV/c, fireball and multiperipheral models for analysis of, (E/T), 25:50071
interactions $\pi^+ + p \to p + 4\pi^+ + 3\pi^-(+\pi^0)$ at 8 GeV/c, fireball and multiperipheral models for π production mechanism for, (T), 25:45746 (INP-755)
interactions $\pi^+ + p \to p + 5\pi$ at 8 GeV/c, four-momentum transfer distribution in, (T), 22:5596
interactions $\pi^+ + p \to p + 5\pi(6\pi)$ at 8 GeV/c, π distributions in, 22:24550
interactions $\pi^+ + p \to p + 6\pi$ at 8 GeV/c, four-momentum transfer distribution in, (T), 22:5596
interactions $\pi^- + p \to p + A_1(A_2)$ at 7 GeV/c, differential cross sections for, (E), 24:1516
interactions $\pi^- + p \to p + A_1^-$ at 16 GeV/c, t-channel helicity conservation in diffractive, (E), 25:19921
interactions $\pi^+ + p \to p + A_1^+$ at 8 and 16 GeV/c, t-channel helicity conservation in diffractive, (E), 25:19921
interactions $\pi^- + p \to p + A_2$ at 3.25 GeV/c, cross sections for, (E), 23:32635
interactions $\pi^+ + p \to p + A_2$ at 5 GeV/c, A_2 decay branching ratios and Dalitz-plot analysis of, (E), 24:49333
interactions $\pi^- + p \to p + A_2$ at 7 GeV/c, spin-parity analysis of $A_2 \to 3\pi$ decays from, (E), 23:14983
interactions $\pi^- + p \to p + A_2^-$ at 3.25 GeV/c in hydrogen bubble chamber, Regge pole model for cross sections of, (E/T), 22:48241
interactions $\pi^- + p \to p + A_2^-$ at 5 and 7.5 GeV/c in bubble chamber, partial-wave analysis of $A_2^- \to \pi^+ + 2\pi^-$ decay in, (E/T), 24:49472
interactions $\pi^+ + p \to p + A_2^+$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^+ + p \to p + A_2^+$ at 5 GeV/c, decay branching ratios and spin—parity of A_2 from, (E), 24:15488
interactions $\pi^+ + p \to p + A_2^+$ at 5.1 GeV/c, cross sections and spin-density matrix elements for, (E), 24:15490
interactions $\pi^+ + p \to p + A^+$, existence of A (πrho) near 1300 MeV with 2^- or 1^+ spin—parity assignment from, (E/T), 21:42375
interactions $\pi^- + p \to p + A^-$, existence of A(πrho) near 1300 MeV with 2^- or 1^+ spin—parity assignment from, (E/T), 21:42375
interactions $\pi^- + p \to p + \text{anti } p + n$ at 8 GeV/c, cross section for, (E), 22:5515
interactions $\pi^+ + p \to p + B^+$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:9682
interactions $\pi^- + p \to p +$ bosons at 16 GeV/c, production of higher-mass bosons in, (E), 23:34540
interactions $\pi^- + p \to p + \text{eta}^0$ at 2.72 to 2.84 GeV/c in propane—xenon bubble chamber, (E), 21:42263 (ITEF-470)
interactions $\pi^- + p \to p + \gamma$ at 4 GeV/c, analysis of, (E), 21:9709 (JINR-P1-3088)
interactions $\pi^- + p \to p + K + \text{anti } K$ at 2.0 to 4.0 GeV/c in hydrogen bubble chamber, A_2^0 production from, (E), 21:42274
interactions $\pi^+ + p \to p + K^0 + \text{anti } K^0 + \pi^+$ at 8 GeV/c, cross sections for strange particle and resonance production in, (E), 23:36839
interactions $\pi^- + p \to p + K_1^0 + K^-$ at 7 GeV/c, spark chamber and spectrometer study of A_2^- mass splitting in, (E), 24:24241
interactions $\pi^+ + p \to p + K^+ + \text{anti } K^0$ at 1.7 GeV/c production of $\Sigma(1475)$ hyperon resonances in, (E), 24 45438
interactions $\pi^+ + p \to p + K^+ + \text{anti } K^0$ at 8 GeV/c, cross sections for strange particle and resonance production in, (E), 23:36839
interactions $\pi^+ + p \to p + K^+ + K^- + \pi^+$ at 8 GeV/c, cross sections for strange particle and resonance production in, 23:36839
interactions $\pi^- + p \to p + k\pi$ $(k = 2 \text{ to } 8)$ at 16.2 GeV/c, four-momentum transfer distributions for, (E/T), 25:50074
interactions $\pi^+ + p \to p + k\pi$, proton momentum spectra from duality diagrams for, (T), 25:53193
interactions $\pi^- + p \to p + k\pi$, proton momentum spectra from duality diagrams for, 25:53193
interactions $\pi^- + p \to p + m\gamma$ (m greater than or equal to 1) at 4 GeV/c, analysis of, (E), 21:9709 (JINR-P1-3088)
interactions $\pi^- + p \to p +$ missing mass, multi-Regge peripheral model for, (T), 24:40405
interactions $\pi^- + p \to p + MM$ at 12 GeV/c in hydrogen bubble chamber, missing-mass spectra from, (E), 24:6691(R) (UH-511-60-69)
interactions $\pi^- + p \to p + MM^-$ at 3.25 GeV/c with high momentum transfer, differential cross sections for rho$^-$ production in, (E), 25:59312
interactions $\pi^- + p \to p + MM^-$, magnetic missing mass spectrometer for studying, 25:39757 (ITEF-808)
interactions $\pi^+ + p \to p + m\pi$ $(m = 2 \text{ to } 7)$ at 8 GeV/c, model with pion form factor for, (E/T), 25:50151
interactions $\pi^- + p \to p + n\pi$ at 11 GeV/c in hydrogen bubble chamber, preliminary results for, (E), 22:39278 (CERN-68-7(Vol.2), pp 226-43)
interactions $\pi^- + p \to p + n\pi$ at 11 GeV/c in hydrogen bubble chamber, preliminary results for backward collimation in recoil in, (E), 22:39278 (CERN-68-7(Vol.2), pp 226-43)
interactions $\pi^+ + p \to p + n\pi$ at 8 GeV $(n = 2 \text{ to } 5)$, Reggeized multiperipheral model of resonance production in, 23:18902
interactions $\pi^- + p \to p + O^-(3200)$ at 17 GeV in nuclear emulsions, search for, (E), 23:18810
interactions $\pi^+ + p \to p + p + n\pi$ at 8.49 GeV/c in hydrogen bubble chamber, $\Delta(1236)$ and meson resonance production in, (E), 23:51858 (NEVIS-171)
interactions $\pi^- + p \to p + \pi + \text{rho}$ at 3.25 GeV/c, method for determining spin and parity of A_1 in, (T), 22:44411 (ITEF-557)
interactions $\pi^- + p \to p + \pi + \text{rho}$, determination of spin and parity of A_1 meson produced in, (E), 23:3650
interactions $\pi^- + p \to p + \pi^0 + \pi^+ + \pi^- + \pi^-$ at 5 and 7.5 GeV/c, 3π mass spectrum from, (E), 22:48225 (COO-1195-132)
interactions $\pi^- + p \to p + \pi^0 + \pi^- + \pi^+ + \pi^-$ at 5 GeV/c, mass spectrum for $\pi^-\pi^+\pi^-$ from, (E), 22:37085
interactions $\pi^- + p \to p + \pi^0 + \pi^-$ at 2.05 to 3.22 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:3285
interactions $\pi^- + p \to p + \pi^0 + \pi^-$ at 2.05 to 3.22 GeV/c, resonance production and decay in, (E), 21:7467 (UCRL-16877)
interactions $\pi^- + p \to p + \pi^0 + \pi^-$ at high energies, test of center-of-mass helicity conservation in diffractive, (T), 24:51986
interactions $\pi^- + p \to p + \pi^0$, method from statistical model for branching ratio calculation for, 21:33711
interactions $\pi^+ + p \to p + \pi^+ + 2\pi^+ + 2\pi^- + \pi^0$, Satz additive quark model sum rules for cross section of, 22:22308
interactions $\pi^- + p \to p + \pi^- + 2\pi^+ + 2\pi^- + \pi^0$, Satz additive quark model sum rules for cross section of, 22:22308
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 4.45 GeV/c in hydrogen bubble chamber, effective mass distribution for N(1460) and N(1690) production in $p\pi^+\pi^-$ system in, (E), 25:45677
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 4.47 GeV/c in hydrogen bubble chamber $\Delta^{++}(1236)$ production and $\pi^+ + p$ virtual scattering and $\pi^- + \pi^-$ scattering cross sections and angular distributions in, (E), 25:9655 (ITEF-767)
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 5 and 7.5 GeV/c, partial wave analysis of $A_2^- \to \pi^+ + 2\pi^-$ decay in, (E/T), 24:45422 (COO-1195-193)
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 5 and 7.5 GeV/c, partial-wave analysis for $A_2(1305)$ production in 3π enhancement in, (T), 25:1408 (COO-1195-197)
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 5 and 7.5 GeV/c, production and polarization of $A_2(1305)$ from partial-wave analysis of 3π enhancement in, (T), 25:47868
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 5 GeV/c in bubble chamber, cross sections and resonance production in, (E), 24:10680
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 6 GeV/c in hydrogen bubble chamber, threshold enhancements in rho^0 π^- and f^0 π^- systems in, (E), 24:24232
interactions $\pi^- + p \to p + \pi^+ + 2\pi^-$ at 7 GeV/c, spectrometer study of spin and parity of two peaks of split A_2 in, (E), 24:24245

interactions $\pi^+ + p \to p + \pi^+ + 3\pi^0(4\pi^0)$ at 2.9 GeV/c in propane—xenon bubble chamber, cross section estimation for, (E), 24:30463
interactions $\pi^+ + p \to p + \pi^+ + K +$ anti K at 3.56 to 3.82 GeV/c in hydrogen bubble chamber, PHI, K(890), and Δ^{++} production in, (E), 24:51961 (UCRL-19845)
interactions $\pi^+ + p \to p + \pi^+ + K +$ anti K at 3.56 to 3.82 GeV/c, Δ^{++} and K(890) production in, (E), 25:45674
interactions $\pi^+ + p \to p + \pi^+ + m\gamma$ at 2.9 GeV/c in propane—xenon bubble chamber, branching ratios for various numbers of γ quanta for, (E), 24:30463
interactions $\pi^+ + p \to p + \pi^+ + m\gamma$ at 2.9 GeV/c in xenon—propane bubble chamber, $2\pi^0$ effective masses and N^{*++} and ω^0 production in, (E), 25:38673
interactions $\pi^+ + p \to p + \pi^+ + MM$ at 13.1 GeV/c in bubble chamber, high-mass boson resonance production in, (E), 24:37646 (COO-1428-222)
interactions $\pi^- + p \to p + \pi^- +$ neutral boson state at 8 GeV/c, search for higher-mass resonances in, (E), 25:9676
interactions $\pi^- + p \to p + \pi^- + n\pi$ at 7 and 17 GeV/c in nuclear emulsion, angular distributions for, (E), 22:50309
interactions $\pi^- + p \to p + \pi^- + \omega$ at 3.2 and 4.2 GeV/c, cross section for, (E), 22:15690
interactions $\pi^- + p \to p + \pi^- + \omega^0$ at 5.0 and 7.5 GeV/c in hydrogen bubble chamber, B production in, (E), 24:40259 (COO-1195-188)
interactions $\pi^+ + p \to p + \pi^+ +$ phi at 3.56 to 3.82 GeV/c, cross sections for, (E), 25:45674
interactions $\pi^- + p \to p + \pi^+ + \pi^0 + 2\pi^-$ at 16 GeV/c, resonances at 1250 and 1700 MeV in, (E), 22:50294 (SLAC-PUB-480)
interactions $\pi^- + p \to p + \pi^+ + \pi^0 + \pi^- + \pi^-$ at 3.2 and 4.2 GeV/c, cross section for, (E), 22:15690
interactions $\pi^+ + p \to p + \pi^- + \pi^0 + \pi^+ + \pi^+$ at 5 GeV/c, quark-model predictions in N^*rho and $N^*\omega$ production in, (E/T), 23:3643
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$ at 13.1 GeV/c in bubble chamber, high-mass boson resonance production in, 24:37646 (COO-1428-222)
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$ at 13.1 GeV/c in hydrogen bubble chamber, isospin, parity, and spin of narrow-width charged boson structures in, (E), 24:37637 (COO-1428-176)
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$ at 13.1 GeV/c in hydrogen bubble chamber, enhancements at 1650, 1970, and 2160 MeV from, (E), 24:40282
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$ at 2.34 GeV/c in hydrogen bubble chamber, N_{33}^{*++} and rho$^+$ production from, 21:42268
interactions $\pi^- + p \to p + \pi^- + \pi^0$ at 2.77 GeV/c, $\pi\pi$ phase shifts from Chew—Low extrapolation of, (E/T), 24:30449 (CONF-690521-, pp 131-48)
interactions $\pi^- + p \to p + \pi^- + \pi^0$ at 4.2 GeV/c in hydrogen bubble chamber, vector meson exchange contribution to rho$^-$ production from, 21:29455
interactions $\pi^- + p \to p + \pi^- + \pi^0$ at 8 GeV/c, total π-π cross sections for 2-GeV dipion mass region from, (E/T), 21:15356
interactions $\pi^- + p \to p + \pi^- + \pi^0$ at 8.09 GeV/c in hydrogen bubble chambers, rho$^-$ production in, 21:18912
interactions $\pi^- + p \to p + \pi^- + \pi^0$ at GeV/c, double-Regge-model analysis of, (T), 25:14713
interactions $\pi^- + p \to p + \pi^- + \pi^0$ isobar model interpretation in partial wave analysis of, (E/T), 24:1597
interactions $\pi^- + p \to p + \pi^- + \pi^0$, cross sections for, 21:7502
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$, cross sections for, 21:7502
interactions $\pi^+ + p \to p + \pi^+ + \pi^0$, isobar model interpretation in partial wave analysis of, (E/T), 24:1517
interactions $\pi^- + p \to p + \pi^- + \pi^0$, $N^*(1688)$ production from, (E), 22:3273
interactions $\pi^- + p \to p + \pi^- + \pi^0$, nucleon exchange and Treiman-Yang frequency distribution for, 21:5390
interactions $\pi^+ + p \to p + \pi^+ + \pi^0(2\pi^0)$ at 2.9 GeV/c in propane—xenon bubble chamber, cross section estimation for, (E), 24:30463
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- +$ neutral boson state at 8 GeV/c, search for higher-mass resonances in, (E), 25:9676
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 13 and 20 GeV/c, multi-Regge model for, (E/T), 25:59300
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^- + \pi^0$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 18.5 GeV/c, resonance production and cross sections for, (E), 24:45440
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^0$ at 2.34 GeV/c, joint production of N^* and ω in, (E), 23:23471 (JINR-P1-4330)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 2.96 GeV/c in hydrogen bubble chamber, production of ω^0, $\Delta^{++}(1236)$, rho$^-$, rho^0, and $\Delta^+(1236)$ in, (E), 22:20145
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 20 GeV/c in hydrogen bubble chamber, N^* resonance production in, (E), 23:14968 (HUX-2752-44)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 3.25 GeV/c in hydrogen bubble chamber, A_2 production from, (E), 22:5516
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 3.25 GeV/c in hydrogen bubble chamber, A_2 production and decay from, (E), 22:7441 (ITEF-497)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 3.25 GeV/c, $A_2 \to \pi +$ eta decay from, (E), 21:7471
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^- + \pi^0$ at 8 GeV/c, resonance parameters and cross sections for rho, N^{*++}, ω, eta, and β production in, (E), 24:28496
interactions $\pi^- + p \to p + \pi^- + \pi^- + \pi^+ + \pi^0$ at high energies, quark model with additivity assumption for, 21:42374
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 8 GeV/c, cross section for D^0 production in, 23:42565
interactions $\pi^- + p \to p + \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^-$ at 16 GeV/c, longitudinal momentum distributions and average transverse momenta in, (E), 23:13040
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 11 GeV/c in hydrogen bubble chamber, validity of OPE model for, (E), 23:30711 (CEA-R-3468)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 11.2 GeV/c, helicity conservation in, (E/T), 25:53032
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 13 and 20 GeV/c in hydrogen bubble chamber, baryon resonance production in, (E), 23:14968 (HUX-2752-44)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 13 and 20 GeV/c, OPE model for baryon and meson resonance production in, (E/T), 24:49346
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 13 and 20 GeV/c, double-Regge-pole model for, (E/T), 24:49522
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 13 to 20 GeV/c in bubble chamber, 3π mass spectrum in, (E), 22:52948
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^-$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^-$ at 16 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:44277 (SLAC-PUB-334)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 16 GeV/c, production and decay of A_1 and A_2 in, (E), 22:48235
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^-$ at 2.1 to 20 GeV/c, one-pion-exchange model for, 23:42683
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 2.1 to 20 GeV/c, one-pion-exchange model for, 23:42683
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^-$ at 2.34 GeV/c, joint production of N^* and rho in, (E), 23:23471 (JINR-P1-4330)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 2.7 to 20 GeV/c, energy dependence of cross section for 3π production in, (E), 24:49343
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 2.75 GeV/c in hydrogen bubble chamber, $N^*(1236)$ production and $\pi^- + \pi^-$ interaction in isospin-2 state from, (E), 21:29451 (CEA-R-3035)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 2.96 GeV/c in bubble chamber, $\Delta^{++}(1236)$, rho^0, and A_2^- production in, (E), 22:20145
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 3.2 and 4.2 GeV/c, cross section for, (E), 22:15690
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 3.25 GeV/c in hydrogen bubble chamber, A_2 production from, (E), 22:5516
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^-$ at 3.25 GeV/c in hydrogen bubble chamber, A_2 production from, (E), 22:7441 (ITEF-497)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 3.25 GeV/c, spin-parity determination of A_2 from, (E), 21:7471
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 3.9 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:15790 (UH-511-17)
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^-$ at 3.9 GeV/c, spin—parity analysis of 3π system in, (E), 25:3276
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 5 and 7.5 GeV/c, 3π mass spectrum from, (E), 22:48225 (COO-1195-132)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 5 GeV/c in bubble chamber, A_1 production in, (E), 23:18805 (COO-1195-158)
interactions $\pi^- + p \to p + \pi^+ + \pi^- + \pi^-$ at 5 GeV/c in bubble chamber, cross section and mass spectra for, (E), 23:18804 (COO-1195-157)
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^-$ at 5 GeV/c, mass spectrum for $\pi^-\pi^+\pi^-$ from, (E), 22:37085
interactions $\pi^+ + p \to p + \pi^- + \pi^+ + \pi^+$ at 5 GeV/c, quark-model predictions in N^*rho and $N^*\omega$ production in, (E/T), 23:3643
interactions $\pi^- + p \to p + \pi^- + \pi^+ + \pi^-$ at 5.0 to 20 GeV/c in hydrogen bubble chamber, cross sections and s-channel helicity for A_1 production in, (E/T), 25:7552 (COO-1195-201)
interactions $\pi^+ + p \to p + \pi^- + \pi^+ + \pi^+$ at 8 GeV/c, production of $A_1^+(1660)$ resonance in, (E), 23:3655
interactions $\pi^+ + p \to p + \pi^+ + \pi^+ + \pi^-$ at 910 MeV/c in hydrogen bubble chamber, mass distributions and $N^*(1238)$ production in, 21:37711
interactions $\pi^- + p \to p + \pi^- +$ rho^0 at 3.2 and 4.2 GeV/c, cross section for, 22:15690
interactions $\pi^- + p \to p + \pi^-$ at 2.0 to 2.5 GeV/c, resonance production in, (E), 21:7467 (UCRL-16877)
interactions $\pi^+ + p \to p + \pi^+$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:59297
interactions $\pi^+ + p \to p + \pi^+$, absorption Regge-cut model for cross sections and polarization in, 25:53206
interactions $\pi^- + p \to p + \pi^-$, absorption Regge-cut model for cross sections and polarization in, 25:53206
interactions $\pi^+ + p \to p + \pi^+$, fixed cuts in Regge pole theory for backward, 24:40385 (COO-264-550)
interactions $\pi^+ + p \to p + \pi^+$, N(1525) Regge trajectory contribution to backward, (T), 25:1548
interactions $\pi^- + p \to p + \pi^-$, N(1525) Regge trajectory contribution to backward, (T), 25:1548
interactions $\pi^- + p \to p + \pi^-$, polarization in, 22:46453
interactions $\pi^- + p \to p + \pi^-$, Regge poles with kinematic cuts for, 24:35663
interactions $\pi^+ + p \to p + \pi^+$, Regge poles with kinematic cuts for, 24:35663
interactions $\pi^- + p \to p + \pi^-$, spark chamber study of $\pi^- + p \to \pi^0 + p$ interactions at 4 to 11 GeV/c for study of backward, (E), 25:33553 (NP-18840)
interactions $\pi^- + p \to p + \pi^-$(rho$^-$) at 6.9 to 16 GeV/c, absorptive Regge cut models for phenomenology of amplitude of backward, (T), 23:51941
interactions $\pi^- + p \to p + R^-$ at 11.5 GeV/c using missing-mass spectrometer, structure of R(1700) from, 22:3258
interactions $\pi^+ + p \to p +$ rho at 2.34 GeV, differential cross sections for, (E), 22:24554
interactions $\pi^- + p \to p +$ rho at 4.0 and 8.0 GeV/c, Regge pole model for, 22:9588 (RLO-2041-1)
interactions $\pi^- + p \to p +$ rho^0(f^0) $+ \pi^-$, double-Regge-pole model for, (E/T), 24:49522
interactions $\pi^- + p \to p +$ rho$^-$ + rho^0 at 8 GeV/c, production of rho$^-$rho^0 (1710) enhancement in, (E), 22:37089
interactions $\pi^+ + p \to p +$ rho$^+$ at 5 GeV/c, cross sections and spin-density matrix elements for, (E), 25:59297
interactions $\pi^+ + p \to p +$ rho$^+$ at 5.0 and 5.2 GeV/c, strong-cut Reggeized absorption model for differential cross sections and rho$^+$ density matrix elements for backward, (T), 25:25419
interactions $\pi^+ + p \to p +$ rho$^+$ at 5.2 GeV/c, differential cross section for backward rho$^+$ production in, (E), 25:9665
interactions $\pi^- + p \to p +$ rho$^-$ at 8 and 16 GeV/c, differential cross sections for rho$^-$ production in backward, (E), 23:10763
interactions $\pi^- + p \to p +$ rho$^-$ at high energies, Regge-pole analysis of backward rho$^-$ production in, (T), 23:10824
interactions $\pi^- + p \to p +$ rho$^-$, correlation of π^0 and π^+ photoproduction with, (E/T), 24:37690
interactions $\pi^+ + p \to p +$ rho$^+$(765) at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)
interactions $\pi^- + p \to p + X^-$ at 1.8 GeV/c, missing mass spectrometer search for delta$^-$(960) resonance in, (E), 21:44289
interactions $\pi^- + p \to p + X^-$ at 16 GeV/c, review of U(2370) production in, (E), 25:17390
interactions $\pi^- + p \to p + X^-$ at 6 and 7 GeV/c, two-peak structure at A_2 meson from, (E), 21:37718
interactions $\pi^- + p \to p + X^-$ at 8.9 to 10.2 GeV/C, mass spectra of nonstrange bosons from, (E), 23:49059
interactions $\pi^- + p \to p + X^-$ at high energies, spectrometer study of 2.62-to-3.535-GeV-mass nonstrange bosons in, (E), 25:17391
interactions $\pi^+ + p \to p + x\pi$ $(x = 1, 2, ...)$ at 8 GeV/c, four-momentum transfer distribution in, (T), 22:3410 (INR-833/VI)
interactions $\pi^+ + p \to p + (n-1)\pi$ $(3 < n < 9)$ at 5 to 16 GeV/c, Reggeized multipheral model for, 22:46427
interactions $\pi^+ + p \to p(n) + 2\pi^+ + \pi^- + \pi^0(\pi^+)$ at 2.34 GeV/c, resonance production cross sections in, (E), 25:9662
interactions $\pi^- + p \to p(n) + K^0 + K^- + \pi^0$ (π^+) at 3.25 GeV/c, S = 1 $NK\pi$ resonance production in, (E) , 22:48240
interactions $\pi^- + p \to p(n) + K^0 + K^- + \pi^0(\pi^+)$ at 3.25 GeV/c, resonance production in, (E), 22:37079 (ITEF-584)
interactions $\pi^- + p \to p(n) + K^0 + K^- + \pi^0(\pi^+)$ at 3.25 GeV/c, resonance production in, (E), 23:8737(T) (NP-tr-1721)
interactions $\pi^- + p \to p(n) + K^0 + K^-$(anti K^0) at 1.5 to 8 GeV/c, generalized Veneziano model for total and differential cross sections, effective-mass and angular distributions for, (T), 25:50138 (JINR-P2-5961)
interactions $\pi^- + p \to p(n) + K^0 + K^-$(anti K^0), five-point Veneziano amplitude for cross sections and effective-mass and angular distributions for, (T), 25:3378 (ITF-70-77)
interactions $\pi^- + p \to p(n) + K^+ + K^-$ (anti K^0) $+ \pi^-$, at 3.25 GeV/c, S = 1 $NK\pi$ resonance production in, 22:48240
interactions $\pi^- + p \to p(n) + K^+ + K^-$(anti K^0) $+ \pi^-$ at 3.25 GeV/c, resonance production in, (E), 22:37079 (ITEF-584)
interactions $\pi^- + p \to p(n) + K^+ + K^-$(anti K^0) $+ \pi^-$ at 3.25 GeV/c, resonance production in, (E), 23:8737(T) (NP-tr-1721)
interactions $\pi^- + p \to p(n) + n\pi$ at 3.9 and 4.16 GeV/c, resonance production from, (E), 22:13657
interactions $\pi^- + p \to$ phi + n at 2.10 GeV/c in bubble chamber, cross section for, (E), 22:20149
interactions $\pi^- + p \to$ phi + n at 4.0 GeV/c, spark chamber and Cherenkov gamma spectrometer study of, (E), 22:22280 (JINR-E1-3770)
interactions $\pi^- + p \to$ phi + n, partial width for phi $\to e^+ + e^-$ decay from, (E), 22:34860
interactions $\pi^- + p \to$ phi + n, phi $\to e^+ + e^-$, at 4.0 GeV/c, spark chamber—Cherenkov spectrometer study of cross sections and widths for, (E), 22:1389
interactions $\pi^- + p \to \pi^+ + n$ at 2.8 GeV/c, cross section for, (E), 21:2381
interactions $\pi^- + p \to \pi + N$, method from statistical model for branching ratio calculation for, 21:33711
interactions $\pi^+ + p \to \pi + p$ at 5 to 18 GeV/c, polarization in, (E), 23:23375
interactions $\pi^- + p \to \pi + \pi + N$ at 2.14 GeV/c, rho production and decay angular distributions from, (E), 21:9713
interactions $\pi^- + p \to \pi + \pi + N$ at 2.26 GeV/c, cross sections for rho and N^* production in, (E), 24:3530
interactions $\pi^- + p \to \pi + \pi + N$ at 2.77 GeV/c, differential cross sections for, 25:1426

interactions $\pi^- + p \rightarrow \pi + \pi + N$ at 2.77 GeV/c, $\pi\pi$ phase shifts from, (E/T), 25:9670
interactions $\pi^- + p \rightarrow \pi + \pi + N$ at 456 to 552 MeV/c, isobar analysis of, (E), 25:3282
interactions $\pi^- + p \rightarrow \pi + \pi + N$ at 500 to 700 MeV, D_{13} particle-wave amplitude of, (T), 24:49504
interactions $\pi^+ + p \rightarrow \pi + \pi + N$ at 8 and 16 GeV/c, separation of isospin-$^1/_2$ and -$^3/_2$ contributions to, 25:30891
interactions $\pi^+ + p \rightarrow \pi + \pi + N$ below 700 MeV, phenomenological analysis of, 21:18989 (TID-22415)
interactions $\pi^- + p \rightarrow \pi + \pi + N$ below 700 MeV, phenomenological analysis of, 21:18989 (TID-22415)
interactions $\pi^- + p \rightarrow \pi + \pi + N$, $\pi\pi$ phase shifts from, (T), 23:3711 (NYO-2171-250)
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta(1236)$ at 4 and 8 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^- + p \rightarrow \pi^0 + \Delta^0(1236)$, $\Delta^0(1236) \rightarrow n + \pi^0$ at 5 GeV/c in propane bubble chamber, incident momentum dependence of cross sections for, (E), 25:25313
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$ at 2.67 to 4.08 GeV/c, Regge pole model for cross sections and Δ^{++} decay angular distributions in, 24:1518
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, absorption effects in, 25:53219
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, differential cross sections for, (E), 23:10817
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, exchange of rho and A_1 Regge trajectories in, 23:36932
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, exponential-type residue in Regge pole analysis of, 22:46425
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, Regge-pole model with absorptive corrections for, 22:15787 (DESY-68/1)
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1236)$ at high energies, O(3,1) symmetry formalism for differential cross sections and rho' and rho exchange for $\Delta^{++}(1236)$ polarization in, (T), 24:26438
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1236)$, Regge pole model with absorptive corrections for, 22:44443
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1236)$, rho + R Regge-pole model for, 24:3672
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1236)$, use of O(4) symmetry in partial-wave analysis of, 22:41813
interactions $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1238)$, Regge pole parameters for, 21:40226
interactions $\pi^- + p \rightarrow \pi^0 +$ eta at high energies, exchange of N and Δ Regge trajectories in, 23:27815
interactions $\pi^- + p \rightarrow \pi^0 + \gamma + n$ at 1.71 to 2.46 GeV/c, Regge pole model for, (E/T), 23:18816
interactions $\pi^- + p \rightarrow \pi^0 + K^0 + \Lambda^0$ at 7 GeV/c, mass spectrum for, (E), 25:40898
interactions $\pi^+ + p \rightarrow \pi^0 +$ missing mass, empirical relation of inelastic e + N interactions with, (T), 25:30795
interactions $\pi^- + p \rightarrow \pi^0 + n \rightarrow 2\gamma n$ at 200, 320, and 360 MeV, performance of lead—plastic sandwiched scintillation detectors for studying, 23:35468 (UCLA-34-P-106-33(Rev.))
interactions $\pi^- + p \rightarrow \pi^0 + n \rightarrow \gamma + \gamma + n$ at 54 MeV, total-absorption counter study of differential cross sections for, (E), 22:29636
interactions $\pi^- + p \rightarrow \pi^0 + n + \gamma$, cross sections for, 21:17124
interactions $\pi^- + p \rightarrow \pi^0 + n + \gamma$, Low theorem for soft photon emission from, 21:27388
interactions $\pi^- + p \rightarrow \pi^0 + n$ above 30 GeV, effects of constant behavior of total cross section on differential cross sections for, (T), 25:25416 (IFVE-STF-70-3)
interactions $\pi^- + p \rightarrow \pi^0 + n$ above 5 GeV/c, Regge pole model for, 22:20210 (CERN-67-24(Vol.2))
interactions $\pi^- + p \rightarrow \pi^0 + n$ above 6 GeV/c, neutron polarization from, (T), 21:21248
interactions $\pi^- + p \rightarrow \pi^0 + n$ and $\pi^- + p \rightarrow \omega^0 + n$ in quark model, relation between cross sections for, 21:25311
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 0.575 to 2.085 GeV/c, differential cross sections for, (E), 21:18926
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.0 to 5.5 GeV/c, differential cross sections for backward, (T), 25:1541
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.5 to 3.8 GeV/c in bubble chamber, differential cross sections for backward π^0 production in, (E), 23:32632
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.55 to 3.8 GeV/c, backward scattering cross sections for, (E), 23:7093
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.71 to 2.46 GeV/c, Regge pole model for, (E/T), 23:18816
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.8 to 5.0 GeV/c, energy dependence of cross section at 180° for, 23:21056
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 1.8 to 6.0 GeV/c, momentum dependence of differential cross sections for, (E), 25:36412
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 11.2 GeV, rho' exchange in, (T), 21:15357
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 GeV/c, resonance production from, (T), 22:3414
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 to 5 GeV/c, interference model for polarization in, (E/T), 22:15801
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 to 5 GeV/c, partial wave amplitudes for, (E/T), 25:59304
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 to 5 GeV/c, Reggeized baryon exchange model predictions for, 22:44429
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 to 6 GeV/c, differential cross sections, isospin, u- and s-channel amplitudes and phase for backward, (E), 25:9653 (COO-1764-113)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2 to 6 GeV/c, differential cross sections for backward, (E), 25:9674
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.0 to 2.6 GeV/c, total and differential cross sections and Δ and high-spin resonance production in, (E), 24:3527
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.0 to 5.0 GeV/c, polarization in, (E), 22:13667
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.07 GeV/c, Regge prediction for N(2190) in, (E/T), 21:37814
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.4 to 3.8, 6, and 10 GeV/c, differential cross sections for, (E), 22:26566
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.5 to 6 GeV/c, Regge-pole and resonant amplitudes for, (T), 21:46542
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 2.5 to 6.0 GeV/c, spark chamber study of upper and lower limits for, (E), 22:3279
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 3 to 18 GeV, optical model for amplitude of, 22:13755
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 3.67 and 18.2 GeV/c, comparison of quark model and experimental cross sections for, 23:36928 (INR-P-1047)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 3.67 and 4.83 GeV/c at large momentum transfers, differential cross sections of, (E), 25:19911
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 3.67 and 4.83 GeV/c, Regge trajectory and isospin invariance in, (E), 25:59289
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 30 to 70 GeV/c, prediction of Reggeized U(6) x U(6) x O(3) absorption model for, 24:40400
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 310 MeV, neutron polarization in, (E), 24:49328
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 310 MeV, phase shift analysis using recoil neutron polarization data for, 21:40217 (JINR-P1-3416)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 4 to 11 GeV/c, differential cross sections for, (E), 24:1519
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 4 to 11 GeV/c, spark chamber study of differential cross sections for backward, (E), 25:33553 (NP-18840)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 4.0 GeV/c, spark chamber study of cross sections of, (E), 23:27751
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5 to 18 GeV/c, polarization in, (E), 23:23375
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.2 to 13.3 GeV, isotopic spin bounds on polarization in, 25:53209
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 and 11.2 GeV/c, effect of Regge cut on polarization in, 22:50396
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 and 11.2 GeV/c, polarization parameter in, (E), 21:2375
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 and 11.2 GeV/c, polarization parameter in, (E), 24:49347
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 GeV/c, model for, 22:50391
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 to 11.2 GeV/c, design and performance of triggering device for heavy-plate spark chamber for polarization parameter measurement for, 22:21348 (CEA-R-3357)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 to 18.2 GeV/c, absorption model calculations of differential cross sections for, 23:44662
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 to 18.2 GeV/c, negative-mass-squared resonance interpretation of angular distribution for, (T), 25:56499 (ORO-3992-8)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 500 to 1300 MeV, spark chamber study of differential cross sections for, 21:29458
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 54 MeV, scintillation counter study of charge exchange and radiative capture differential cross sections for, 21:29453 (UCRL-11697)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 561 and 2106 MeV/c, spark chamber study of forward differential cross sections for, (E), 22:22318
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 6 to 18 GeV/c, overlap function analysis for, 22:7522
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 6 to 25 GeV/c, overlap function analysis of polarization in, 22:48319
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 90 to 290 MeV, P-wave phase shift from total cross sections for, (E/T), 25:19915
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 96.6 MeV, lead converter and counter telescope study of differential cross section for, (E), 22:9511
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 97.1 MeV, telescope counter study of phase shifts and total cross sections for, (E), 22:9510
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, analysis of inelastic, (E), 21:9805
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, composite model for energy dependence of, 23:39736
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, differential cross sections and polarization predictions for, 23:3750
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, differential cross sections, polarization, and amplitudes for small- and large-angle, 23:36929 (JINR-E2-4479)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, phenomenological analysis of, 22:17962
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, possibility of second rho from polarization in, (T), 21:23335 (AD-644646)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, real to imaginary amplitude ratio for, (T), 22:20251
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge cuts and secondary trajectories in, 23:51961
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge pole model for polarization prediction for, 21:42359
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge poles and SU(3) for forward, 22:15796
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge pole model for polarization in, 23:5630
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge pole model for, 22:3417
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge pole—cut model for analysis of, 25:56505
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge pole theory for, 21:29541
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Regge trajectory linearity in Veneziano representation for exchange quasipotential for differential cross sections of, (T), 25:1527 (JINR-E2-5226)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Reggeized generalized optical model for multiple and diffraction scattering and dips in, (T), 25:12205
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, Reggeized absorption model including effects of diffraction dissociation for, 23:8854
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, review of Regge poles in, 22:13750 (CALT-68-145)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, review of experiments for, 22:13756
interactions $\pi^+ + p \rightarrow \pi^0 + n$ at high energies, single Regge pole model for, 21:42383
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, single rho Regge-pole exchange model for, 22:50393
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, tachyon resonance exchange for differential cross sections for, (T), 25:47935 (ORO-3992-52)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies, two Regge trajectories for, 23:34600
interactions $\pi^- + p \rightarrow \pi^0 + n$ at rest, angular correlations in, (E), 23:23373
interactions $\pi^- + p \rightarrow \pi^0 + n$ at rest, Cherenkov counter study of, 21:37654 (BMwF-FBK-67-52)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at very high energies, polarization in, 25:56509
interactions $\pi^- + p \rightarrow \pi^0 + n$ in hydrogenous substances, (E), 22:15679 (JINR-P13-3653)
interactions $\pi^- + p \rightarrow \pi^0 + n$ in nuclei at 7.82 GeV/c, differential cross sections for, (E), 25:56432
interactions $\pi^- + p \rightarrow \pi^0 + n$ in Regge-pole model, momentum dependence of amplitude for, 22:17869
interactions $\pi^- + p \rightarrow \pi^0 + n$ in Veneziano model, polarization in, 25:9793
interactions $\pi^- + p \rightarrow \pi^0 + n$, A_2' Regge pole in, 24:49525
interactions $\pi^- + p \rightarrow \pi^0 + n$, absorption model with Regge-pole exchange for rho exchange in, 22:48323
interactions $\pi^- + p \rightarrow \pi^0 + n$, absorptive optical model for scattering at all angles in, (T), 24:40393
interactions $\pi^- + p \rightarrow \pi^0 + n$, ambiguities in determination of Regge-pole parameters for rho-exchange, 21:37822
interactions $\pi^- + p \rightarrow \pi^0 + n$, amplitude with Regge poles only for, 23:23487
interactions $\pi^- + p \rightarrow \pi^0 + n$, Argand analysis of Regge amplitudes for resonances in, 22:39399 (IC-68/51)
interactions $\pi^- + p \rightarrow \pi^0 + n$, asymptotic theorems and SU(2) symmetry for asymptotic relation for, 23:21144
interactions $\pi^- + p \rightarrow \pi^0 + n$, axial-vector coupling-constant renormalization for, 21:9765
interactions $\pi^- + p \rightarrow \pi^0 + n$, backward, 24:18188 (CONF-690330-, pp 217-24)
interactions $\pi^- + p \rightarrow \pi^0 + n$, bound on helicity flip amplitude for absorptive part of, 25:53215
interactions $\pi^- + p \rightarrow \pi^0 + n$, complex-angular-momenta method with moving branch points and Regge cuts for, 24:10767
interactions $\pi^- + p \rightarrow \pi^0 + n$, complex-angular-momentum method with branch points in j-plane for, 24:8647 (ITEF-699)
interactions $\pi^- + p \rightarrow \pi^0 + n$, conspiracy and Regge cut models for differential cross sections and polarization in, 25:33742
interactions $\pi^- + p \rightarrow \pi^0 + n$, convergence of finite-energy sum rules in nonforward directions in, 24:40389
interactions $\pi^- + p \rightarrow \pi^0 + n$, cross section from Regge analysis of $\pi + p$ backward elastic scattering, 22:7508
interactions $\pi^- + p \rightarrow \pi^0 + n$, cross sections for, (E), 23:10817
interactions $\pi^- + p \rightarrow \pi^0 + n$, determination of trajectories and residues of rho and rho' Regge poles in, 22:48325
interactions $\pi^- + p \rightarrow \pi^0 + n$, differential cross sections using SU(3) symmetry and Regge poles for, (T), 23:5626
interactions $\pi^- + p \rightarrow \pi^0 + n$, differential cross sections for, (T), 22:46430
interactions $\pi^- + p \rightarrow \pi^0 + n$, discrepancies between forward amplitude data and dispersion relation prediction for, (E/T), 25:12209
interactions $\pi^- + p \rightarrow \pi^0 + n$, doubled rho trajectory for, 24:42968
interactions $\pi^- + p \rightarrow \pi^0 + n$, duality diagrams with exotic t-channel exchanges for, 25:47859 (COO-2009-25)
interactions $\pi^- + p \rightarrow \pi^0 + n$, effects of angular-momentum cuts on polarization in charge-exchange, 21:11775
interactions $\pi^- + p \rightarrow \pi^0 + n$, generalized superconvergence sum rule for modified interference model for near forward, (E/T), 24:35656
interactions $\pi^- + p \rightarrow \pi^0 + n$, interference model and duality principle from dispersion sum rules for, 23:36942
interactions $\pi^- + p \rightarrow \pi^0 + n$, interference of Regge rho exchange in, (T), 21:5393
interactions $\pi^- + p \rightarrow \pi^0 + n$, model for Regge cut contributions to, 23:42778
interactions $\pi^- + p \rightarrow \pi^0 + n$, model of exchange-degenerate Regge trajectories for, 24:18221
interactions $\pi^- + p \rightarrow \pi^0 + n$, modified Lorentz pole analysis of amplitude for, 23:27813
interactions $\pi^- + p \rightarrow \pi^0 + n$, multiple quark scattering analysis for polarization effect and energy and momentum transfer square dependencies of differential cross sections for, (E), 25:43615
interactions $\pi^- + p \rightarrow \pi^0 + n$, observation of branch points connected with p and p' poles for, 21:42357

interactions $\pi^- + p \rightarrow \pi^0 + n$, optical potential for absorptive corrections to rho Regge-pole for, 21:15417
interactions $\pi^- + p \rightarrow \pi^0 + n$, partial-wave analysis for test of Harari—Freund hypothesis from, 25:53179 (UCRL-20655, pp 169-75)
interactions $\pi^- + p \rightarrow \pi^0 + n$, phase problem for double rho exchange in, (T), 23:51943
interactions $\pi^- + p \rightarrow \pi^0 + n$, polarization associated with Regge cuts in, 21:21238
interactions $\pi^- + p \rightarrow \pi^0 + n$, quark model for backward, 21:4050
interactions $\pi^- + p \rightarrow \pi^0 + n$, quark model predictions for, (E/T), 24:1595
interactions $\pi^- + p \rightarrow \pi^0 + n$, random phase approximation in absorption and multiple-scattering models for, 23:49170
interactions $\pi^- + p \rightarrow \pi^0 + n$, random-phase approximation and absorption model for, 23:51940
interactions $\pi^- + p \rightarrow \pi^0 + n$, real to imaginary rates of forward amplitude of, 22:29707
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge A_2 and rho trajectories from, 21:40218 (NP-16952)
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge cuts for polarization in, 23:44666
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge cuts in absorption model for polarization in, 23:3749
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge cuts in Van Hove model for differential cross sections and polarization in forward, (T), 25:41001 (RLO-2041-57)
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge models for, (E/T), 25:33736
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge pole amplitudes with absorptive corrections for, 24:13102
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge pole analysis for $13/2^-$ N(2530) production in, 22:39412
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge pole model for invariant functions for, 23:51939
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge pole model with absorptive corrections for, 22:44443
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge pole model with flat trajectories for, 24:49493
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge poles and SU(3) symmetry for, 22:1439
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge quark model for, (T), 25:25450
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge—quark model analysis of differential cross sections for, 23:1644
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge-pole analysis of, 22:46433
interactions $\pi^- + p \rightarrow \pi^0 + N$, Regge-pole model with absorptive corrections for, 22:15787 (DESY-68/1)
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge-pole model with cuts for, (T), 24:49501
interactions $\pi^- + p \rightarrow \pi^0 + n$, Regge-pole model with L—S coupling for, 22:20264
interactions $\pi^- + p \rightarrow \pi^0 + n$, resonances in partial-wave projection of Regge pole fit to, 22:44430
interactions $\pi^- + p \rightarrow \pi^0 + n$, review of Regge pole theory for, 22:7489 (UCSD-10-P-10-29)
interactions $\pi^- + p \rightarrow \pi^0 + n$, review of Regge pole theory for, 23:18823 (CONF-671217-, pp 370-588)
interactions $\pi^- + p \rightarrow \pi^0 + n$, secondary Regge contributions to forward, 22:39421
interactions $\pi^- + p \rightarrow \pi^0 + n$, secondary Regge contributions in, 25:56508
interactions $\pi^- + p \rightarrow \pi^0 + n$, separability and unitarity concepts for differential cross sections for, 21:44382
interactions $\pi^- + p \rightarrow \pi^0 + n$, spin-flip amplitudes from polarization in, (T), 21:44374
interactions $\pi^- + p \rightarrow \pi^0 + n$, SU(3) predictions for, 22:46490
interactions $\pi^- + p \rightarrow \pi^0 + n$, sum rules based on Regge pole model for, 21:17130
interactions $\pi^- + p \rightarrow \pi^0 + n$, test of violation of Pomeranchuk theorem from polarization in, (E/T), 25:45764
interactions $\pi^- + p \rightarrow \pi^0 + n$, Veneziano model for, 24:18190
interactions $\pi^+ + p \rightarrow \pi^0 + N^*$, Regge-pole-exchange predictions for, 21:25301
interactions $\pi^+ + p \rightarrow \pi^0 + N^{*++}$ at 2.75, 3.54, and 8.0 GeV/c, Regge-pole model for analysis of, (T), 22:29714
interactions $\pi^+ + p \rightarrow \pi^0 + N^{*++}$ at high energies, differential cross sections and spin-density matrix elements for, (T), 25:12223
interactions $\pi^+ + p \rightarrow \pi^0 + N^{*++}$, chiral symmetry with rho—γ analogy for, 24:18191
interactions $\pi^+ + p \rightarrow \pi^0 + N^{*++}$, tests of current algebra and PCAC hypothesis in, 21:18999
interactions $\pi^+ + p \rightarrow \pi^0 + N_{33}^{*++}$, several Regge pole hypothesis for, 21:33709
interactions $\pi^- + p \rightarrow \pi^0 + p$ at 150 to 600 MeV at 60 to 170°, scintillation counter study of differential cross sections for, (E), 25:43564
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 1.71 to 2.46 GeV/c, Regge pole model for, (E/T), 23:18816
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 1.715 to 2.460 GeV/c, s-wave $\pi\pi$ interaction from, (E/T), 21:29459
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 2 GeV/c, design of spark chamber for studying, 23:47818
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 2.00 GeV/c, kinematic analysis of two meson (π^0) final states from, 21:25238 (RHEL/R-104)
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 378 MeV in isobar model, S-wave $\pi\pi$ phase shift from, 25:3392
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$ at 378 MeV, S-wave $\pi + \pi$ scattering length from, (E), 25:9668
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$, Chew—Low extrapolation of s-wave $\pi\pi$ scattering from, 24:52093
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$, forward structure in, 25:7664
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + N$, model for resonance production from, 21:42360
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$, partial-wave amplitudes for, 21:18995
interactions $\pi^- + p \rightarrow \pi^0 + \pi^0 + n$, s-wave $\pi\pi$ scattering amplitude from, 22:37151
interactions $\pi^- + p \rightarrow \pi^0 + \pi^- + p$ at 2.7 and 4.2 GeV/c, $\pi\pi$ s-wave elastic scattering phase shifts from, (E), 22:24562
interactions $\pi^- + p \rightarrow \pi^0 + \pi^- + p$ at 4 GeV/c, rho$^-$ and Δ^-(1236) production in, (E), 23:14976
interactions $\pi^- + p \rightarrow \pi^0 + \pi^- + p$ at 500 to 700 MeV, isobar model for partial-wave analysis of, 22:20261
interactions $\pi^- + p \rightarrow \pi^0 + \pi^- + p$ at 6 GeV/c in hydrogen bubble chamber, N(1400) production in, (E), 22:11588
interactions $\pi^- + p \rightarrow \pi^0(\text{eta}) + n$ at 2 to 20 GeV/c, Regge model with four poles for, (E/T), 25:5371 (CEA-N-1373)
interactions $\pi^+ + p \rightarrow \pi^0(\text{eta}^0) + \Delta^{++}$ at 13.1 GeV/c in hydrogen bubble chamber, production and decay angular distributions and cross sections for, (E), 24:42877 (COO-1428-232)
interactions $\pi^- + p \rightarrow \pi^0(\text{eta}^0) + n$ at high energies, Regge pole models for differential cross sections and polarization predictions for, 23:39730
interactions $\pi^+ + p \rightarrow \pi^0(\text{rho}^0)(f^0) + N^{*++}$, zeros in droplet model for, 23:39728
interactions $\pi^+ + p \rightarrow \pi^0(\text{eta}) + \Delta^{++}$ at 16 GeV/c, Regge pole model with Veneziano residues for differential cross sections of, (T), 24:52110
interactions $\pi^+ + p \rightarrow \pi^0(\text{eta}) + \Delta^{++}$ at high energies, magnetic dipole couplings at Regge vertices for, 23:23486
interactions $\pi^+ + p \rightarrow \pi^0(\text{eta}) + \Delta^{++}$, Regge pole model with Veneziano residues for, (T), 25:3384 (TPJU-3/70)
interactions $\pi^+ + p \rightarrow \pi^0(\text{eta}^0) + \Delta^{++}$, Regge pole and cut model with SU(3) symmetry and exchange degeneracy for differential cross sections for, (T), 25:25422
interactions $\pi^- + p \rightarrow \pi^0(\text{eta}^0) + n$ at 3.0 to 6.0 GeV/c, proposed experiment for spark chamber study of, 22:41740 (COO-1749-2 and Add.)
interactions $\pi^- + p \rightarrow \pi^0(\text{eta}^0) + n$ at 50 and 100 GeV/c at small angles, proposed experiment for optical spark chamber study of, 24:51955 (TID-25473(Vol.4), pp 71-5)
interactions $\pi^- + p \rightarrow \pi^0(\pi^+) + p(n)$ at 4.65 GeV/c in hydrogen bubble chamber, study of nuclear forces from resonance production in, (E), 22:29638
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + n$ interactions at 6.0 GeV/c in hydrogen bubble chamber, (E), 24:3525
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + p$ at 4.45 GeV/c, cross sections for A_1^- and A_3^- production in, (E), 25:38674
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + p$ at 5 GeV/c, multi-Regge model for, (T), 25:43602
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + p$ at 6.0 GeV/c in hydrogen bubble chamber, Δ^{++}(1236), rho^0(765), and f^0(1260) production in, (E), 24:3525
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + p$ at high energies, test of center-of-mass helicity conservation in diffractive, (T), 24:51986
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + \pi^0 + p$ at 6 GeV/c in hydrogen bubble chamber, resonance production and cross sections for, (E), 25:12101
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + \pi^0 + p$ at 6.0 GeV/c in hydrogen bubble chamber, resonance production in, (E), 24:3525
interactions $\pi^- + p \rightarrow \pi^+ + 2\pi^- + \pi^0$ at 11 GeV/c in hydrogen bubble chamber, modified multi-Regge model for duality in Δ^{++} production in, (E/T), 24:3521 (DESY-69/37)
interactions $\pi^+ + p \rightarrow \pi^- +$ anything at 18.5 GeV/c in bubble chamber, cross sections for, (E), 25:59319
interactions $\pi^- + p \rightarrow \pi^- +$ anything at 8 to 24.8 GeV/c in bubble chamber, cross sections for, (E), 25:59319
interactions $\pi^- + p \rightarrow \pi^+ + \Delta(1236)^-$ at 2.15 to 6 GeV/c, optical-spark-chamber study of cross sections and missing-mass spectra from, (E), 25:50070
interactions $\pi^- + p \rightarrow \pi^- + \Delta^+$ at high energies, magnetic dipole couplings at Regge vertices for, 23:23486
interactions $\pi^- + p \rightarrow \pi^+ + \Delta^-$, modified two-pion-exchange model for, 22:37153
interactions $\pi^- + p \rightarrow \pi^- + \Delta^+$, Regge pole model with Veneziano residues for, (T), 24:52110
interactions $\pi^- + p \rightarrow \pi^- + \Delta^+$, Regge pole model with Veneziano residues for, (T), 25:3384 (TPJU-3/70)
interactions $\pi^- + p \rightarrow \pi^+ + \Delta^-(1236)$ at 1.5 to 1.8 GeV, evidence for duality from amplitudes of, 24:5307
interactions $\pi^- + p \rightarrow \pi^+ + \Delta^-(1236)$, rescattering model for, 23:42688
interactions $\pi^+ + p \rightarrow \pi^+ + f^0 + p$ at 13.1 GeV/c, double-Regge model with duality for, (T), 25:1525 (COO-1428-237)
interactions $\pi^+ + p \rightarrow \pi^+ + f^0 + p$ at 13.1 GeV/c, double-Regge-pole model with duality for analysis of, (T), 25:17507
interactions $\pi^- + p \rightarrow \pi^- + K^0 + \Sigma^+$, final-state interaction effects in, 24:37786
interactions $\pi^- + p \rightarrow \pi^- + K^0 + \Sigma^+$, isobar and rescattering models for Dalitz plot analysis of final-state, 24:10768
interactions $\pi^- + p \rightarrow \pi^- + K^+ + \Lambda$, exotic exchange and kinematical reflection in, (T), 24:3663
interactions $\pi^- + p \rightarrow \pi^- + K^+ + \Lambda^0$ at 7 GeV/c, K*(890) and K*(1420) production in, (E), 25:40898
interactions $\pi^- + p \rightarrow \pi^- +$ missing mass, duality and triple Pomeron vertex for diffraction dissociation, 25:38726
interactions $\pi^- + p \rightarrow \pi^- + m\pi^0 + N'$, $N' \rightarrow p + \gamma$ at 5 GeV/c in propane bubble chamber, upper limit for N' production in, (E), 25:50058 (JINR-P1-5916)
interactions $\pi^- + p \rightarrow \pi^- + N + \pi^- + n\pi$ at 10 GeV/c in hydrogen bubble chamber, angular and momentum properties, meson asymmetry coefficients and resonance production in, (E), 24:10812
interactions $\pi^- + p \rightarrow \pi^+ + n$ at high energies, sum rule for Regge pole model for cross section of, 22:37159
interactions $\pi^- + p \rightarrow \pi^- + N^*$ at 8 and 16 GeV/c, spectrometer study of differential cross sections for, (E) , 24:45442
interactions $\pi^+ + p \rightarrow \pi^+ + N^*$, one-pion and diffraction contributions to, (T), 24:20173 (ITF-69-86)
interactions $\pi^- + p \rightarrow \pi^+ + N^*$, one-pion and diffraction contributions to, 24:20173 (ITF-69-86)
interactions $\pi^- + p \rightarrow \pi^+ + N^{*-}$ at 8 and 16 GeV/c, upper limits for, (E), 24:18079
interactions $\pi^+ + p \rightarrow \pi^- + N^{*+++}$ at 1.9 GeV/c, search for $I = {}^5/_2$ isobar in, (E), 24:12952
interactions $\pi^- + p \rightarrow \pi^- + N^+(1710)$ at 6 GeV/c in hydrogen bubble chamber, properties of N(1710) in, (E), 24:37631
interactions $\pi^- + p \rightarrow \pi^- + p + 2\gamma$ at 2.72 to 2.84 GeV/c in propane—xenon bubble chamber, resonance production in, (E), 21:42263 (ITEF-470)
interactions $\pi^- + p \rightarrow \pi^- + p + 2\gamma$ at high energies, bremsstrahlung amplitude for, (T), 23:39644 (ITF-69-38)
interactions $\pi^+ + p \rightarrow \pi^+ + p + 2\gamma$ at high energies, bremsstrahlung amplitude for, (T), 23:39644 (ITF-69-38)
interactions $\pi^- + p \rightarrow \pi^- + p + 2\gamma(3\gamma)$ at 5 GeV/c in propane bubble chamber, production of $\pi^-\gamma$(270) in, (E), 25:50065 (JINR-P1-5874)
interactions $\pi^- + p \rightarrow \pi^- + p + 2\gamma(3\gamma)$ at 5 GeV/c in propane bubble chamber, $\pi^-\gamma$(270) production in, (E), 25:53026
interactions $\pi^+ + p \rightarrow \pi^+ + p + 4\gamma$ at 2.05 GeV/c using hydrogen target in heavy liquid bubble chamber, search for $\text{eta}^0 \rightarrow \pi^0 + \gamma + \gamma$ decay in, (E), 22:5494
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{anti } p + p$ at 13.1 GeV/c in hydrogen bubble chamber, cross sections and Δ^{++} production in, (E), 25:17380 (COO-1428-249)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{anti } p + p$ at 13.1 GeV/c in hydrogen bubble chamber, Δ, N anti N(2190), and rho(2290) production in, (E), 25:40879 (COO-1428-273)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{anti } p + p$ at 13.1 GeV/c, double Regge-pole model for analysis of, (E/T) , 25:50073
interactions $\pi^+ + p \rightarrow \pi^+ + p + D^0$, $D^0 \rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$ at 16 GeV/c, cross section for, (E), 25:27964
interactions $\pi^- + p \rightarrow \pi^- + p + D^0$, $D^0 \rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$ at 16 GeV/c, cross section for, (E), 25:27964
interactions $\pi^+ + p \rightarrow \pi^+ + p + e^+ + e^-$ at 1.02 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:3278
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{eta}$ at 1.48 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:37082
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{eta}$ at 1050 and 1170 MeV/c in hydrogen bubble chamber, (E), 22:26565 (UCRL-18141)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{eta}$ at 1050 to 1170 MeV/c, cross sections and angular distributions for eta production in, (E), 23:23387
interactions $\pi^- + p \rightarrow \pi^+ + p + \text{eta}$ at 1050 to 1170 MeV/c, cross sections and angular distributions for eta production in, (E), 23:23387
interactions $\pi^- + p \rightarrow \pi^- + p + \text{eta}$ at 1170 MeV/c in hydrogen bubble chamber, (E), 22:26565 (UCRL-18141)
interactions $\pi^- + p \rightarrow \pi^- + p + \text{eta}$ at 2.26 GeV/c, π/sub N/(1016) and A_2(1270) production in, (E), 23:7098
interactions $\pi^+ + p \rightarrow \pi^+ + p + \text{eta}^0$ at 2.05 GeV/c in hydrogen bubble chamber, cross sections and eta^0 decay branching ratio for, (E), 23:49060
interactions $\pi^- + p \rightarrow \pi^- + p + \text{eta}^0$ at 5.0 GeV/c, A_2 production and decay branching ratios from, (E), 22:32072
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$ at 150 to 300 MeV, model-independent calculation of differential cross sections for, (T), 24:8653
interactions $\pi^- + p \rightarrow \pi^- + p + \gamma$ at 340 MeV, gamma spectrum and cross sections from, (E), 23:13018
interactions $\pi^- + p \rightarrow \pi^- + p + \gamma$ at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687
interactions $\pi^- + p \rightarrow \pi^- + p + \gamma$ at high energies, method for determining properties of effective space—time regions of, (E), 23:39644 (ITF-69-38)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$ at high energies, method for determining properties of effective space—time regions of, (E), 23:39644 (ITF-69-38)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$ at high energies, method for determining properties of effective space—time regions of, (E), 23:39644 (ITF-69-38)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$, differential and total cross sections for, (T), 25:25446
interactions $\pi^- + p \rightarrow \pi^- + p + \gamma$, $\gamma 3\pi$ vertex and final-state interaction in, (T), 22:24651
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$, method for measuring magnetic moment of Δ^{++}(1236) produced in, (E), 22:20246
interactions $\pi^+ + p \rightarrow \pi^+ + p + \gamma$, method for measuring magnetic moment of Δ^{++}(1236) in, 22:46422(T) (NP-tr-1692)
interactions $\pi^+ + p \rightarrow \pi^+ + p + K^+ + K^-$ at 13.1 GeV/c in hydrogen bubble chamber, cross sections and K*(890) and Δ^{++} production in, (E), 25:17380 (COO-1428-249)
interactions $\pi^+ + p \rightarrow \pi^+ + p + K^+ + K^-$ at 13.1 GeV/c in hydrogen bubble chamber, resonance production in, (E), 25:40879 (COO-1428-273)
interactions $\pi^+ + p \rightarrow \pi^+ + p + K^+ + K^-$ at 13.1 GeV/c, double Regge-pole model for analysis of, (E/T) , 25:50073

interactions $\pi^+ + p \rightarrow \pi^+ + p + K^+ + K^-$ at 13.1 GeV/c, resonance production in, (E), 24:37647 (COO-1428-223)
interactions $\pi^- + p \rightarrow \pi^- + p + m\gamma$ at 4 GeV/c in propane bubble chamber, 21:40151
interactions $\pi^- + p \rightarrow \pi^- + p$ + missing mass at 2.05 to 3.22 GeV/c in hydrogen bubble chamber, A_1^- production from, (E), 22:3285
interactions $\pi^- + p \rightarrow \pi^- + p$ + neutral particles at 7 GeV/c in propane bubble chamber, small momentum transfer in, (E), 22:9514
interactions $\pi^- + p \rightarrow \pi^- + p$ + neutral vector meson, quark model for, 23:18877 (ITF-68-36)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ + neutral vector meson, quark model for, 23:18877 (ITF-68-36)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \omega$ at 3.7 GeV/c, charge asymmetry on $\omega \rightarrow \pi^+ + \pi^- + \pi^0$ Dalitz plot from, (E), 25:59308
interactions $\pi^- + p \rightarrow \pi^- + p + \omega$ at 5 GeV/c in bubble chamber, N^{*0} and B production in, (E), 23:21054 (COO-1195-159)
interactions $\pi^- + p \rightarrow \pi^- + p + \omega$ at 7 GeV/c, interpretations for $p\omega(1750)$ resonance from, (E/T), 24:49345
interactions $\pi^- + p \rightarrow \pi^- + p + \omega$, use of Veneziano model for calculation of one-pion-exchange contribution to, 23:46738
interactions $\pi^+ + p \rightarrow \pi^+ + p + \omega^0$ at 2.05 GeV/c in hydrogen bubble chamber, cross sections and ω^0 decay branching ratio from, (E), 23:49060
interactions $\pi^+ + p \rightarrow \pi^+ + p + \omega^0$ at 3.7 GeV/c, mass and width of ω from, (E), 25:56430
interactions $\pi^+ + p \rightarrow \pi^+ + p + p$ + anti p at 13.1 GeV/c, $\Delta^{++}(1236)$ production in, (E), 24:37647 (COO-1428-223)
interactions $\pi^+ + p \rightarrow \pi^+ + p + p$ + anti p at 8.4 GeV/c in hydrogen bubble chamber, pp anti p(3755) enhancement in, (E), 22:20147
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^0 + \pi^0$ at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ and $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 1.114 GeV/c in hydrogen bubble chamber, $N^*(1238)$ production in, 21:35274
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 1.02 GeV/c in hydrogen bubble chamber, $\Delta(1236)$ production from, 22:3278
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 1.6 to 2.75 GeV/c, di-pion mass and $\pi\pi$ scattering angle from, (E), 21:2380
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^0$ at 1.7 GeV/c in hydrogen bubble chamber, test of Ferrari—Selleri form factor for elastic $\pi + \pi$ interactions from, (E/T), 22:3275
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 2.34 GeV/c, rho$^+$ and N^{*++} production in, (E), 22:22314
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^0$ at 2.72 to 2.84 GeV/c in propane—xenon bubble chamber, (E), 21:42263 (ITEF-470)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 600 to 1300 MeV, angular distribution of π^0 in, (E), 23:8756
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 600 to 810 MeV, three-channel N/D equations via quasi-two-body channels for momentum distributions of final particles in, 24:24372
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 751 MeV/c, (E), 21:23314 (BNL-994, pp 70-102)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ at 900 MeV, production mechanism of $\Delta(1236)$ in, (E), 22:11591
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ in multi-Regge model, finite energy sum rules for, 24:8664
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^0$, determination of cross sections from OPE model and N^* production for, (E/T), 23:14966
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$(eta^0) at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + (\pi^0)$ at 3.9 GeV/c, evidence for rho—ω constructive interference effect in, (E), 24:51980
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 1.95 GeV/c in bubble chamber, N_{11}^*, eta, and ω production in, (E), 21:18911
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + \pi^0$ at 11 GeV/c in hydrogen bubble chamber, A_1 and A_2 production from, 21:42266
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + \pi^0$ at 11 GeV/c, analysis of 4π enhancement from, (E), 22:29628
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 2.95 to 4.08 GeV/c in hydrogen bubble chamber, $\Delta(2850)$ and double resonance production in, (E), 22:37081 (UCRL-18254)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 2.95 to 4.1 GeV/c in hydrogen bubble chamber, quasi-two-body final states in, (E), 22:17954
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 2.95 to 4.1 GeV/c in hydrogen bubble chamber, B enhancement from, (E), 22:13655 (UCRL-17984)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 3 to 4 GeV/c in hydrogen bubble chamber, cross sections and angular distributions for quasi-two-body final states from, (E), 22:20143
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + \pi^0$ at 5 GeV/c in hydrogen bubble chamber, B resonance production in, (E), 22:20136 (COO-1195-110)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^- + \pi^0$ at 7 GeV/c in hydrogen bubble chamber, resonance production from, 21:37716
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + X$ at 50 GeV/c, performance of proposed 25-foot bubble chamber for study of simulated, 24:50591 (TID-25473(Vol.2), pp 69-81)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ and $\pi^+ + p \rightarrow \pi^+ + p$, cross section ratio for, (E/T), 24:24374
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^-$ at 11 GeV/c in hydrogen bubble chamber, A_1 and A_2 production from, 21:42266
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^-$ at 11 GeV/c, analysis of 3π enhancement from, (E), 22:29628
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 11.0 GeV/c, rho^0, $\Delta^{++}(1236)$, and A production in, (E), 25:5292
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 13.1 GeV in hydrogen bubble chamber, N(1720) production in, (E), 24:37641 (COO-1428-215)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 13.1 GeV, N(1720) production and decay from, (E), 24:30461
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 13.1 GeV/c in hydrogen bubble chamber, N(1720) production in, (E), 24:40261 (COO-1428-175)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 2.95 to 4.08 GeV/c in hydrogen bubble chamber, $\Delta(2850)$ and double resonance production in, (E), 22:37081 (UCRL-18254)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 2.95 to 4.1 GeV/c in hydrogen bubble chamber, quasi-two-body final states in, (E), 22:17954
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 2.95 to 4.1 GeV/c in hydrogen bubble chamber, N^* production from, (E), 22:13655 (UCRL-17984)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 3 to 4 GeV/c in hydrogen bubble chamber, cross sections and angular distributions for quasi-two-body final states from, (E), 22:20143
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^-$ at 3.25 GeV/c, quantum numbers of light and heavy A_2^- in, (E), 24:51969
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^- + \pi^+$ at 4.7 GeV/c in hydrogen bubble chamber, 3-particle resonance production from, 21:21143
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 5 GeV/c, analysis of $p\pi\pi(1710)$ enhancement in, (E), 25:3275
interactions $\pi^- + p \rightarrow \pi^- + p + \pi^- + \pi^+$ at 6 GeV/c, $N^{*-}(1700)$ production and decay in, (E), 22:39283
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 7 GeV/c in hydrogen bubble chamber, resonance production from, 21:23310 (UR-875-153)
interactions $\pi^+ + p \rightarrow \pi^+ + p + \pi^+ + \pi^-$ at 7 GeV/c in hydrogen bubble chamber, resonance production from, 21:37716
interactions $\pi^- + p \rightarrow \pi^- + p + x + \pi^0$ at 11 GeV/c in hydrogen bubble chamber, A_1 and A_2 production from, 21:42266
interactions $\pi^- + p \rightarrow \pi^- + p$ and $\pi^- + p \rightarrow \pi^0 + n$ interactions at low energies, mass difference and Coulomb effects in, 25:43645
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 0 to 2 GeV/c, compilation of amplitudes and parameters from partial-wave analyses for, (T), 25:36506 (TID-25726)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 0 to 2 GeV/c, compilation of amplitudes and parameters from partial-wave analyses for, (T), 25:36506 (TID-25726)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 0.050 to 200 GeV, real part of amplitude of, (T), 22:39403 (JINR-P2-3850)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 0.050 to 200 GeV, real part of amplitude of, (T), 22:39403 (JINR-P2-3850)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 0.55 to 1.3 GeV/c, resonance and diffraction parameters in model for, (T), 25:43643
interactions $\pi^- + p \rightarrow \pi^- + p$ at 0.893 to 1.06 GeV/c, spark chamber study of differential cross sections for statistical fluctuations for, (E), 23:39620
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.0 to 5.5 GeV/c, differential cross sections for backward, (T), 25:1541
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 1.0 to 5.5 GeV/c, differential cross sections for backward, (T), 25:1541
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 1.02 GeV/c in hydrogen bubble chamber, differential cross section for, (E), 22:3278
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.400 to 2.000 GeV in bubble chamber, cross sections and angular distributions for, (E), 25:47741 (SLAC-131)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 1.48 to 2.93 GeV/c, magnetostrictive wire spark chamber study of cross sections for, (E), 22:20152
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.48 to 2.93 GeV/c, magnetostrictive wire spark chamber study of cross sections for, (E), 22:20152
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.59 to 4.16 GeV/c in hydrogen bubble chamber, review and phenomenological analysis for angular distributions and diffraction peak shrinkage in, (E), 24:10690
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.6 to 5.3 GeV/c, $N^*(3245)$ production from, (E), 22:3282
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.7 GeV/c, cross sections for, (E), 23:7101
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.7 GeV/c, models for differential cross sections of, 22:37150
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.71 to 3.01 GeV/c, evidence for existence of N(2210) and N(2220) from, (E/T), 25:3281
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.71 to 5.53 GeV/c, differential cross sections for, (E), 25:3280
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.71 to 5.53 GeV/c, scintillation counter spectrometer study of (2290) enhancement in differential cross sections for, (E), 25:9652 (COO-1764-112)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 1.89 and 2.10 GeV/c in bubble chamber, differential cross sections for, (E), 22:24566
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 12 and 16 GeV/c at small angles, model with multiple Pomeranchukon exchange corrections to amplitude of, (E/T), 23:51946
interactions $\pi^- + p \rightarrow \pi^- + p$ at 12 to 18.6 GeV/c at small angles, model with multiple Pomeranchukon exchange corrections to amplitude of, (E/T), 23:51946
interactions $\pi^- + p \rightarrow \pi^- + p$ at 16 GeV/c, cross sections for, (E), 23:34540
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2 to 8 GeV, model for backscattering in, 22:32723
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.05 to 3.22 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:3285
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.06 to 4.70 GeV/c, energy dependence of differential cross section of, (E), 21:7464 (JINR-P1-3008)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.15 GeV/c, differential cross section for backward, (E), 23:5541
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.15 to 6.00 GeV/c, spark chamber and spectrometer study of differential cross sections for backward, (E), 25:45676
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.18 to 5.25 GeV/c, differential cross sections for, (E), 24:49324 (COO-2009-14)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.18 to 5.25 GeV/c, differential cross sections and angular distributions for backward, (E), 25:27965
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.26 GeV/c, differential cross sections for elastic, (E), 21:18918
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.3 and 6.0 GeV/c, spark chamber study of differential cross sections for backward, (E), 22:3281
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.3 to 4.0 GeV/c, differential cross sections for, (E), 21:35263 (COO-1112-106)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.3 to 4.0 GeV/c, differential cross sections for, 21:35262 (COO-1112-103)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.38 to 3.00 GeV/c, differential cross sections for, (E), 24:49324 (COO-2009-14)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.38 to 3.00 GeV/c, differential cross sections and angular distributions for backward, (E), 25:27965
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.5 to 6.0 GeV/c, differential cross section for elastic, (E), 21:35265 (COO-1112-108)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.5 to 6.0 GeV/c, differential cross sections for, (E), 21:35263 (COO-1112-106)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.5 to 6.0 GeV/c, differential cross sections for, 21:35262 (COO-1112-103)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.5 to 6.0 GeV/c, differential cross section for elastic, (E), 21:35265 (COO-1112-108)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.74 to 4.0 GeV/c at all angles, s-channel helicity amplitude analysis of, (T), 25:50134 (COO-2009-22)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.77 GeV/c, differential cross sections for, (E), 25:1426
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 2.85 to 6.9 GeV/c, spark chamber study of angular distributions for, (E), 25:9684
interactions $\pi^- + p \rightarrow \pi^- + p$ at 2.85 to 6.9 GeV/c, spark chamber study of angular distributions for, (E), 25:9684
interactions $\pi^- + p \rightarrow \pi^- + p$ at 229 to 390 MeV, polarization parameter measurements in, (E), 21:3988 (UCRL-17153)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 3 to 18 GeV, optical model for amplitude of, 22:13755
interactions $\pi^- + p \rightarrow \pi^- + p$ at 3 to 18 GeV, optical model for amplitude of, 22:13755
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 3.0 to 5.0 GeV/c and 55 to 130°, scintillation counter and spark chamber study of differential cross sections for, (E), 25:47931 (COO-2009-21)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 3.0 to 5.0 GeV/c and 55 to 130°, scintillation counter and spark chamber study of angular distributions for, (E), 25:59285
interactions $\pi^- + p \rightarrow \pi^- + p$ at 3.0 to 5.0 GeV/c and 55 to 130°, scintillation counter and spark chamber study of differential cross sections for, (E), 25:47931 (COO-2009-21)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 3.0 to 5.0 GeV/c and 55 to 130°, scintillation counter and spark chamber study of angular distributions for, (E), 25:59285
interactions $\pi^- + p \rightarrow \pi^- + p$ at 3.5 GeV/c, mechanism for, (E/T), 21:46535(T) (ANL-Trans-497)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 310 MeV, SPDF phase shift analysis of, (E), 21:877 (JINR-P-2898)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 318 and 337 MeV, phase shift analysis of, (E), 21:3988 (UCRL-17153)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 4 GeV/c at 0 to 180°, angular distributions for, (T), 24:18198
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 4 to 8 GeV/c, differential cross section for elastic, (E), 21:11739 (NYO-2171-219)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 4 to 8 GeV/c, differential cross section for elastic, (E), 21:11739 (NYO-2171-219)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 4.65 GeV/c in hydrogen bubble chamber, study of nuclear forces from cross sections for, (E), 22:29638
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 410 and 490 MeV, missing-mass spark chamber spectrometer study of differential cross sections for forward elastic, 21:37715
interactions $\pi^- + p \rightarrow \pi^- + p$ at 410 and 490 MeV, missing-mass spectrometer study of differential cross sections of forward, (E), 22:22310 (CEA-R-3146)
interactions $\pi^- + p \rightarrow \pi^- + p$ at 410 and 490 MeV, missing-mass spark chamber spectrometer study of differential cross sections for forward elastic, 21:37715
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 410 and 490 MeV, missing-mass spectrometer study of differential cross sections of forward, (E), 22:22310 (CEA-R-3146)
interactions $\pi^+ + p \rightarrow \pi^+ + p$ at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)

interactions $\pi^{+} + p \to \pi^{+} + p$ at 5 GeV/c, differential cross section for, 24:32967
interactions $\pi^{-} + p \to \pi^{-} + p$ at 5 to 18 GeV/c, polarization in, (E), 23:23375
interactions $\pi^{+} + p \to \pi^{+} + p$ at 5.0 GeV/c, spark-chamber study of cross sections for, (E), 25:47747
interactions $\pi^{-} + p \to \pi^{-} + p$ at 5.0 GeV/c, spark-chamber study of cross sections for, (E), 25:47747
interactions $\pi^{+} + p \to \pi^{+} + p$ at 5.2 and 6.9 GeV/c, absorptive Regge cut models for phenomenology of amplitude of backward, (T), 23:51941
interactions $\pi^{+} + p \to \pi^{+} + p$ at 5.9 to 14 GeV/c, scintillation counter telescope and optical spark chamber study of cross sections for, (E), 22:39271 (CERN-68-7(Vol.1), pp 571-9)
interactions $\pi^{-} + p \to \pi^{-} + p$ at 5.9 to 14 GeV/c, scintillation counter telescope and optical spark chamber study of cross sections for, (E), 22:39271 (CERN-68-7(Vol.1), pp 571-9)
interactions $\pi^{+} + p \to \pi^{+} + p$ at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions $\pi^{-} + p \to \pi^{-} + p$ at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 and 16 GeV/c, A and R polarization parameters for, (E), 25:36406 (NP-18873)
interactions $\pi^{+} + p \to \pi^{+} + p$ at 6 GeV/c, Cherenkov counter study of polarization parameter for, (E), 24:24227
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 GeV/c, Cherenkov counter study of polarization parameter for, (E), 24:24227
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 to 14 GeV/c, scintillation counter and optical spark chamber study of, (E), 23:46621
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 to 16 GeV/c scintillation counter and spark chamber study of angular distributions and cross sections of backward, (E), 24:18095
interactions $\pi^{+} + p \to \pi^{+} + p$ at 6 to 17 GeV/c, scintillation counter and spark chamber study of angular distributions and cross sections for backward, (E), 24:18095
interactions $\pi^{+} + p \to \pi^{+} + p$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 to 18 GeV/c, multiple-Regge-pole model for analysis of, 22:50399
interactions $\pi^{+} + p \to \pi^{+} + p$ at 6 to 18 GeV/c, overlap function analysis for, 22:7522
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 to 18 GeV/c, overlap function analysis for, 22:7522
interactions $\pi^{+} + p \to \pi^{+} + p$ at 6 to 25 GeV/c, overlap function analysis of polarization in, 22:48319
interactions $\pi^{-} + p \to \pi^{-} + p$ at 6 to 25 GeV/c, overlap function analysis of polarization in, 22:48319
interactions $\pi^{-} + p \to \pi^{-} + p$ at 600 to 1280 MeV/c, scintillation-counter study of differential cross sections and excitation functions for, (E), 25:47746
interactions $\pi^{-} + p \to \pi^{-} + p$ at 600 to 3300 MeV/c, counter hodoscope study of polarization parameter from, (E), 22:11600
interactions $\pi^{-} + p \to \pi^{-} + p$ at 650 MeV in hydrogen bubble chamber, cross sections for, (E), 22:7446
interactions $\pi^{+} + p \to \pi^{+} + p$ at 670 to 3750 MeV/c, polarization from, (E), 21:880
interactions $\pi^{-} + p \to \pi^{-} + p$ at 670 to 3750 MeV/c, polarization from, (E), 21:880
interactions $\pi^{-} + p \to \pi^{-} + p$ at 7.0 GeV/c in hydrogen bubble chamber, cross sections for, (E), 23:34537
interactions $\pi^{-} + p \to \pi^{-} + p$ at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687
interactions $\pi^{+} + p \to \pi^{+} + p$ at 751 MeV/c, (E), 21:23314 (BNL-994, pp 70-102)
interactions $\pi^{-} + p \to \pi^{-} + p$ at 8 GeV/c at 0 to 180°, angular distributions for, (T), 24:18198
interactions $\pi^{+} + p \to \pi^{+} + p$ at 8 GeV/c, total cross sections for, (E), 23:8747
interactions $\pi^{-} + p \to \pi^{-} + p$ at 875 to 1580 MeV/c, spark chamber study of differential cross sections for backward, (T), 24:49349
interactions $\pi^{-} + p \to \pi^{-} + p$ at 898 MeV/c, differential cross section for, (E), 23:14980
interactions $\pi^{-} + p \to \pi^{-} + p$ at 9.85 GeV/c, angular distributions for, (T), 25:36534
interactions $\pi^{+} + p \to \pi^{+} + p$ at 97.1 MeV, telescope counter study of phase shifts and total cross sections for, (E), 22:9510
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies and high momentum transfer, angular distribution for backward, (E), 22:13660
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies and high momentum transfer, angular distribution for backward, (E), 22:13660
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies near 180°, Euler—MacLaurin sum rule for amplitudes and cross sections of, (T), 24:24343
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies near 90°, Euler—MacLaurin sum rule for amplitudes and cross sections for, 24:24454
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, compilation of polarization data and Regge pole model for, (E/T), 25:53186
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, compilation of polarization data and Regge pole model for, (E/T), 25:53186
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, differential cross sections, polarization, and amplitudes for small- and large-angle, (T), 23:36929 (JINR-E2-4479)
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, differential cross sections, polarization, and amplitudes for small- and large-angle, (T), 23:36929 (JINR-E2-4479)
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, optical model for wide-angle, (T), 22:9589(T) (LA-tr-67-111)
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, optical model for wide-angle, (T), 22:9589(T) (LA-tr-67-111)
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, phenomenological analysis of, 22:17962
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, phenomenological methods and correlations for, 23:30768
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, phenomenological analysis of, 22:17962
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, Pomeron hypothesis for form of real-to-imaginary parts for amplitude of, (T), 25:14656 (SU-1206-237)
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, predictions of quark model for large-angle, 23:21096
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, predictions of quark model for large-angle, 23:21096
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, Regge pole—cut model for analysis of, 25:56505
interactions $\pi^{-} + p \to \pi^{+} + p$ at high energies, Regge poles and SU(3) for backward, 22:15796
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, Regge pole—cut model for analysis of, 25:56505
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, review of Regge poles in, 22:13750 (CALT-68-145)
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, review of Regge poles in, 22:13750 (CALT-68-145)
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, SU(3) inequalities for amplitude differences for, 21:21287
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, SU(3) inequalities for amplitude differences for, 21:21287
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, sum rule for Regge pole model for cross section of, 22:37159
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, sum rule for Regge pole model for cross section of, 22:37159
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, unitarity condition for imaginary part of amplitude for large-angle, 22:13743
interactions $\pi^{+} + p \to \pi^{+} + p$ at high energies, upper limit on spin flip amplitude in, (T), 22:17958
interactions $\pi^{-} + p \to \pi^{-} + p$ at high energies, upper limit on spin flip amplitude in, (T), 22:17958
interactions $\pi^{+} + p \to \pi^{+} + p$ at intermediate energies, extended duality model for polarization and masses, widths, and elasticities of Δ resonances in backward, (T), 25:47886
interactions $\pi^{+} + p \to \pi^{+} + p$ at large angles, additivity and factorizability in quasi-independent quark model for, 23:49153 (ITF-69-24)
interactions $\pi^{+} + p \to \pi^{+} + p$ at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions $\pi^{-} + p \to \pi^{-} + p$ at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions $\pi^{+} + p \to \pi^{+} + p$ at low energies, Coulomb corrections for, (T), 25:43599
interactions $\pi^{+} + p \to \pi^{+} + p$ below 2 GeV, differential cross sections for, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^{-} + p \to \pi^{-} + p$ below 2 GeV, differential cross sections for, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^{-} + p \to \pi^{-} + p$ below 2 GeV, polarization of recoil proton in, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^{+} + p \to \pi^{+} + p$ below 2 GeV, polarization of recoil proton in, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^{+} + p \to \pi^{+} + p$, absorption model for backward, (T), 25:53187
interactions $\pi^{+} + p \to \pi^{+} + p$, amplitudes and πNN coupling constant from model-independent analysis of forward, (T), 25:20003 (JINR-E2-5561)
interactions $\pi^{-} + p \to \pi^{-} + p$, amplitudes and πNN coupling constant from model-independent analysis of forward, (T), 25:20003 (JINR-E2-5561)
interactions $\pi^{-} + p \to \pi^{-} + p$, asymptotic theorems and SU(2) symmetry for asymptotic relation for, 23:21144
interactions $\pi^{-} + p \to \pi^{-} + p$, at high energies, unitarity conditions for imaginary part of amplitude for large-angle, 22:13743
interactions $\pi^{+} + p \to \pi^{+} + p$, backward, (T), 24:18188 (CONF-690330-, pp 217-24)
interactions $\pi^{-} + p \to \pi^{-} + p$, backward, (T), 24:18188 (CONF-690330-, pp 217-24)
interactions $\pi^{+} + p \to \pi^{+} + p$, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions $\pi^{-} + p \to \pi^{-} + p$, compilation of differential and total cross sections, polarization, and effective Regge trajectories for, (E), 25:38663 (UCRL-20001)
interactions $\pi^{+} + p \to \pi^{+} + p$, complex-angular-momenta method with moving branch points and Regge cuts for, 24:10767
interactions $\pi^{+} + p \to \pi^{+} + p$, complex-angular-momentum method with branch points in j-plane for, 24:8647 (ITEF-699)
interactions $\pi^{-} + p \to \pi^{-} + p$, complex-angular-momentum method with branch points in j-plane for, 24:8647 (ITEF-699)
interactions $\pi^{-} + p \to \pi^{-} + p$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $\pi^{+} + p \to \pi^{+} + p$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $\pi^{-} + p \to \pi^{-} + p$, determination of cross sections from OPE model and N^{*} production for, (E/T), 23:14966
interactions $\pi^{+} + p \to \pi^{+} + p$, duality for nonet degeneracy in, 24:24381
interactions $\pi^{-} + p \to \pi^{-} + p$, eta—n bound state for scattering length and phase shift of s-wave, (T), 22:22401
interactions $\pi^{-} + p \to \pi^{-} + p$, exchange degeneracy for oscillating cross sections for, (T), 25:38745
interactions $\pi^{+} + p \to \pi^{+} + p$, fermion-exchange mechanisms for backward, (T), 22:32164
interactions $\pi^{-} + p \to \pi^{-} + p$, generalized superconvergence sum rule for modified interference model for backward, 24:35656
interactions $\pi^{+} + p \to \pi^{+} + p$, modulus above threshold for determination of amplitude of, 22:20242
interactions $\pi^{-} + p \to \pi^{-} + p$, modulus above threshold for determination of amplitude of, 22:20242
interactions $\pi^{+} + p \to \pi^{+} + p$, phase of surface reactions for polarization in, (T), 25:22826
interactions $\pi^{-} + p \to \pi^{-} + p$, phase of surface reactions for polarization in, (T), 25:22826
interactions $\pi^{-} + p \to \pi^{-} + p$, Pomeranchukon exchange plus direct-channel resonances as model for forward diffraction peak in, 23:21107
interactions $\pi^{+} + p \to \pi^{+} + p$, Pomeranchukon exchange plus direct-channel resonances as model for forward diffraction peak in, (T), 23:21107
interactions $\pi^{-} + p \to \pi^{-} + p$, quark model for backward, 21:4050
interactions $\pi^{+} + p \to \pi^{+} + p$, quark model for backward, 21:4050
interactions $\pi^{+} + p \to \pi^{+} + p$, random phase K-matrix for absorption in, 21:33712
interactions $\pi^{-} + p \to \pi^{+} + p$, random phase K-matrix for absorption in, 21:33712
interactions $\pi^{-} + p \to \pi^{-} + p$, Regge cut corrections to Regge pole exchange for crossover between differential cross sections for $\pi^{+} + p \to \pi^{+} + p$ interactions and differential cross sections for, 24:18230
interactions $\pi^{+} + p \to \pi^{+} + p$, Regge pole model for invariant functions for, 23:51939
interactions $\pi^{-} + p \to \pi^{-} + p$, Regge pole model for invariant functions for, 23:51939
interactions $\pi^{-} + p \to \pi^{-} + p$, Regge quark model for, (T), 25:25450
interactions $\pi^{+} + p \to \pi^{+} + p$, Regge quark model for, (T), 25:25450
interactions $\pi^{-} + p \to \pi^{-} + p$, spin amplitudes for, (T), 25:59471 (CEA-N-1456)
interactions $\pi^{+} + p \to \pi^{+} + p$, spin-flip amplitudes from polarization in, (T), 21:44374
interactions $\pi^{-} + p \to \pi^{-} + p$, spin-flip amplitudes from polarization in, (T), 21:44374
interactions $\pi^{-} + p \to \pi^{-} + p$, survey of backward, (E), 25:45676
interactions $\pi^{+} + p \to \pi^{+} + p$, use of multiplate spark chambers for measurements of elastic, (E), 21:17837
interactions $\pi^{-} + p \to \pi^{-} + p(\Delta^{++}) + \mathrm{rho}^{0}(\pi^{-})$, Cherenkov mechanism for cross section behavior of, (T), 25:56498 (IFA-HE-76)
interactions $\pi^{-} + p \to \pi^{-} + p(n) + \pi^{0}(\pi^{+})$ at 7.0 GeV/c in hydrogen bubble chamber, angular distribution and cross sections for peripheral, (E), 23:34537
interactions $\pi^{-} + p \to \pi^{-} + p(n) + \pi^{+} + \pi^{-}(\pi^{+}) + \pi^{0}(\pi^{-})$ near threshold, cross sections for, (E), 24:3536
interactions $\pi^{+} + p \to \pi^{+} + p(n) + \pi^{+} + \pi^{-}(\pi^{-}) + \pi^{0}(\pi^{-})$ near threshold, cross sections for, (E), 24:3536
interactions $\pi^{-} + p \to \pi^{-}$ + particles, analysis of background in resonance-production region of, 25:47834
interactions $\pi^{+} + p \to \pi^{+}$ + phi + p at 3.7 GeV/c in hydrogen bubble chamber, (E), 23:39612 (UCRL-19225)
interactions $\pi^{+} + p \to \pi^{+} + \pi + N$, Cherenkov mechanism for analysis of cross section behavior of, (E/T), 25:41016
interactions $\pi^{-} + p \to \pi^{-} + \pi + N$, Cherenkov mechanism for analysis of cross section behavior of, (E/T), 25:41016
interactions $\pi^{+} + p \to \pi^{+} + \pi^{0} + p$ and $\pi^{+} + p \to \pi^{+} + \pi + n$ below 1 GeV, generalized isobar-model analysis of, 22:13760
interactions $\pi^{-} + p \to \pi^{-} + \pi^{0} + p$ and $\pi^{-} + p \to \pi^{-} + \pi^{+} + n$ at 1.89 to 3 GeV/c, study of $\pi\pi$ elastic scattering using Chew—Low extrapolation method in, (E/T), 23:5613
interactions $\pi^{-} + p \to \pi^{-} + \pi^{0} + p$ at 1.4 to 1.5 GeV in bubble chamber, partial waves and validity of isobaric model for high-inelasticity resonance relation with three-body production in, (E/T), 24:15476 (CEA-R-3928)
interactions $\pi^{-} + p \to \pi^{-} + \pi^{0} + p$ at 1.7 GeV/c, cross sections for, (E), 23:7101
interactions $\pi^{+} + p \to \pi^{+} + \pi^{0} + p$ at 1.85 to 2.09 GeV in hydrogen bubble chamber, cross sections for $\Delta^{++}(1236)$ and $\Delta(1236)$ production in, (E), 25:43552 (UCR-34-P-107-B-110)
interactions $\pi^{+} + p \to \pi^{+} + \pi^{0} + p$ at 13.1 GeV/c in hydrogen bubble chamber, boson resonance production in, (E), 24:37645 (COO-1428-221)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.0 GeV/c in hydrogen bubble chamber, $\pi + \pi$ scattering in, (E), 23:25533

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.1 to 3.2 GeV/c, $\pi\pi$ phase shift analysis from 600 to 1000 MeV for, 22:1444

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.15 GeV/c in hydrogen bubble chamber, rho$^-$ production from, (E), 22:3265 (CEA-R-3291)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 2.34 GeV/c, differential cross sections for rho$^+$ and N_{33}^* production from, (E), 21:7463 (JINR-P1-2997)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.36 GeV/c, epsilon^0 and rho production in, (E), 23:8743

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.77 GeV/c in hydrogen bubble chamber, Chew—Low extrapolation for $\pi^-\pi^0$ elastic cross section from, (E/T), 21:46486

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.77 GeV/c in hydrogen bubble chamber, $\pi^- + \pi^0$ elastic scattering study from, (E), 22:3272

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.77 GeV/c in hydrogen bubble chamber, low-momentum transfer to proton in, (E), 23:46609 (CEA-R-3543)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.77 GeV/c, production and decay of rho$^-$ in, 22:20141

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 2.77 GeV/c, $\pi\pi$ elastic cross sections and rho$^-$ production from, (E), 23:14971

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 3.63 GeV/c in hydrogen bubble chamber, rho production cross section and decay angular distributions from, 21:37704

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 5 GeV/c, longitudinal phase-space analysis of, (E/T), 25:14578

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 5.0 GeV/c in bubble chamber, resonance production in, (E), 22:41734 (COO-1428-71)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 552 MeV/c, $\pi\pi$ enhancement in, (E), 24:30453 (CONF-690521-, pp 316-25)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 6 GeV/c, I = 1 di-pion resonance at 1.63 GeV from, (E), 21:15270

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 6 GeV/c, spin of $g^-(1640)$ from, (E), 23:5536

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 650 MeV in hydrogen bubble chamber, cross sections for, (E), 22:7446

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 7 GeV/c, $\pi^-\pi^0$ phase shifts in 1.0 to 1.2 GeV region from, (E/T), 24:30521 (CONF-690521-, pp 75-92)

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 7 GeV/c, $\pi^-\pi^0$ phase shifts and mass enhancement from, (E), 23:42562

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 7 GeV/c, $\pi\pi$ phase shifts to 1.4 GeV from, (E/T), 24:37661

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 8 GeV, diffraction scattering effects on, (T), 21:19015

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 8 GeV/c, double Regge analysis of, 21:46543

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 8 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ at 8 GeV/c, production of rho- and g- in, (E), 24:3533

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at 968 MeV/c, search for meson decaying into $\pi^+\pi^0$ in, (E), 22:11593

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ at high energies, model for single π production from, 21:19023

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ from threshold to 700 MeV, partial-wave amplitudes for, 21:18995

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ in bubble chamber, rho production from, 21:42267

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ in bubble chamber, rho production from, 21:42267

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$, avoidance of double counting and asymmetry in Dalitz plot for, 23:21120

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$, characteristics of diffraction dissociation for, 24:8657

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$, chiral-dynamics calculation of cross sections for, (E/T), 24:35654

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$, chiral-dynamics calculatiion of cross sections for, (E/T), 24:35654

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$, partial-wave amplitudes for, 21:18995

interactions $\pi^- + p \rightarrow \pi^- + \pi^0 + p$, relativistic many-channel resonance formula for rho resonance parameters from, 23:21104

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$, test of Pomeranchuk exchange dominance in, 23:23480

interactions $\pi^- + p \rightarrow \pi^- + \pi^0(\pi^+) + p(n)$ at 1.400 to 2.000 GeV in bubble chamber, mass and angular distributions for, (E), 25:47741 (SLAC-131)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0(\pi^+) + p(n)$ at 13.1 GeV/c in hydrogen bubble chamber, diffractive $\pi + \pi$ interactions in, (E), 25:56425 (COO-1428-294)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0(\pi^+) + p(n)$ at 5 and 8 GeV/c, longitudinal phase plots for study of energy dependence of, (E), 25:30742

interactions $\pi^- + p \rightarrow \pi^- + \pi^0(\pi^+) + p(n)$ at 7.0 and 25 GeV in hydrogen bubble chamber, (E), 22:9512

interactions $\pi^- + p \rightarrow \pi^- + \pi^0(\pi^+) + p(n)$ at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0(\pi^+) + p(n)$ at 810 and 1300 MeV in hydrogen bubble chamber, rho, N(1518), N(1680), N(1688), and $\Delta(1236)$ production in, (E), 23:39608 (CEA-R-3579)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^0(\pi^+) + p(n)$ or 0.6 to 0.8 GeV/c, partial-wave analysis of, (E/T), 24:49340

interactions $\pi^- + p \rightarrow \pi^- + \pi^0(\pi^-) + \pi^0(\pi^+) + p$ at 7.0 GeV/c in hydrogen bubble chamber, rho, A_1, A_2, A(1230), N(1490), N(1680), and N(1710) production in, (E), 25:7561

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^+$ at 3.7 to 4.0 GeV/c, ωrho^0 interference in, (E), 24:5257

interactions $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ at 11.2 GeV/c in hydrogen bubble chamber, double Regge-pole model for quasi-three-body states in, (E/T), 24:32969

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$ at 13.1 GeV/c in hydrogen bubble chamber, double Regge pole analysis of, (E/T), 24:37642 (COO-1428-217)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$ at 13.1 GeV/c, double-Regge pole analysis of, (E/T), 25:3273

interactions $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ at 2.7 to 4.2 GeV/c, cross sections for elastic $\pi^- + \pi^-$ interactions from, (E), 25:33557

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$ at 3.7 to 4.0 GeV/c in bubble chamber, ω^0rho^0 interference in, (E), 23:42559 (UCRL-18894)

interactions $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ at 6 GeV, double-Regge-pole model analysis of, (E/T), 24:49330

interactions $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ at 6 GeV/c, double-Regge-pole analysis of, (E), 24:15486

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$, cross section for elastic $\pi^+ + \pi^-$ interactions from, 25:33558

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$, parameters for $\omega \rightarrow 2\pi$ and rho $\rightarrow 2\pi$ interference in, (T), 24:10744 (COO-264-531)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^- + \Delta^{++}$, rho—$\omega$ interference in, (T), 24:40310

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + m\pi^0 + n$ at 4 GeV/c in propane bubble chamber, analysis of, (E), 21:31535

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n + 2\pi^0$ at 4 GeV/c in propane bubble chamber, $N^*(>2000)$ production from, (E), 22:17866 (JINR-P1-3677)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ + neutrals at 1.45 to 1.52 GeV/c, spark chamber and scintillation counter study of X^0 production from, (E), 22:17876

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 1.02 GeV/c in hydrogen bubble chamber, $\Delta(1236)$ production from, (E), 22:3278

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 1.085 GeV, spark chamber study of $\pi^+\pi^-$ system from, (E), 22:15685

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 1.245 GeV/c, search for $\omega \rightarrow \pi^+ + \pi^-$ decay in, (E), 24:40265 (NEVIS-182)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.3 GeV/c, π—π elastic cross section from, (E/T), 21:33615

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.38 to 3.00 GeV/c, rho^0 production and decay angular distributions from, (E/T), 22:3437

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.4 to 1.5 GeV in bubble chamber, analysis of three-body production in, (E), 24:15476 (CEA-R-3928)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.400 to 2.000 GeV in bubble chamber, $\Delta(1236)$ production in, (E), 25:47741 (SLAC-131)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 1.5 BeV/c, dipion mass spectrum from, (E), 21:23314 (BNL-994, pp 70-102)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 1.59 to 3.22 GeV/c, $\pi^+\pi^-(480)$ resonance structure in, (E), 23:42576

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 11 GeV/c, double Regge model for anticornering effect in Dalitz plot for, 23:23483

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 11.2 GeV/c, $\pi^-\pi^+(946)$ enhancement in, (E), 22:48232

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 15 GeV/c, absorptive OPE model for, (E/T), 25:40902

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 15 GeV/c, differential cross section, $\pi\pi$ mass distributions, and density-matrix elements for, (E), 25:33568

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 16 GeV/c in hydrogen bubble chamber, production cross sections for rho^0 and f^0 and total cross sections for, (E), 24:26376

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 17.2 GeV/c, spin and parity of g resonance from, (E), 25:45681

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.0 GeV/c in hydrogen bubble chamber, $\pi + \pi$ scattering in, (E), 23:25533

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.1 to 3.2 GeV/c, $\pi\pi$ phase shift analysis from 600 to 1000 MeV for, 22:1444

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.10 GeV/c in bubble chamber, cross section for ω production in, (E), 22:24566

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.15 GeV/c, sign of $\pi\pi$ phase shift from, (E/T), 24:48216

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 2.15 GeV/c, sign of $\pi\pi$ phase shift from, (E/T), 24:48216

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.26 and 2.36 GeV/c, I = 0 $\pi^-\pi^+(1070)$ enhancement in, (E), 25:1421

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.3 GeV/c in bubble chamber, rho—ω interference in, (E), 25:17384

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.3 GeV/c in hydrogen bubble chamber, rho^0—ω constructive interference in $\pi^- + \pi^+$ decay mode in, (E), 24:51952 (NYO-2171-319)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.3 GeV/c in hydrogen bubble chamber, rho—ω interference in $\pi^- + \pi^+$ mode in, (E), 24:51963

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.3 GeV/c, rho^0 decay angular distribution from backward production in, (E), 24:35612

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.36 GeV/c in hydrogen bubble chamber, asymmetry for rho^0 production from, (E), 22:13668

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.36 GeV/c, angular distribution of $\Delta^-(1236)$ production in, (E/T), 22:24557

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.36 GeV/c, N^{*-} and rho production from, (E), 21:17050

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.36 GeV/c, $\pi^+\pi^-$ and $n\pi^-$ effective mass distributions from, (E), 21:17058

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.7 and 4 GeV/c in bubble chamber, breakdown of vector dominance relation in rho^0 and ω production in, (E/T), 23:14993

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.7 and 4.2 GeV/c, $\pi\pi$ s-wave elastic scattering phase (E), 22:24562

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.7 GeV/c, production of I = 0, $\pi^-\pi^+(1050)$ enhancement in, (E), 23:3644

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 2.7 GeV/c, $\pi\pi$ S-wave phase shift in rho region for, (E/T), 21:11774

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 2.77 GeV/c, elastic cross section for $\pi^+ + \pi^-$ interactions from, (E/T), 25:9669

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 247 MeV, total cross sections for, (E), 24:45429

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 290 MeV, $\pi^+ + \pi^-$ elastic scattering cross sections from, 21:31536

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 3 to 5 GeV/c, counter—spark chamber study of $\pi + \pi$ interactions and $\pi\pi(645)$, $\pi\pi(936)$, and $\pi\pi(1029)$ enhancements in, (E), 25:43555

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 3 to 5 GeV/c, counter—spark chamber study of dipion production in, (E), 25:47742 (UCRL-19464)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 3.1 to 3.6 GeV/c, sonic spark chamber study of $\pi^+\pi^-$ (1085), f^0, and rho production from, (E), 22:17867 (RPP/H-33)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 3.63 GeV/c in hydrogen bubble chamber, rho production cross section and decay angular distributions from, 21:37704

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 350 to 500 MeV, relativistic partial-wave analysis of, (T), 25:38750

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 360 and 430 MeV, isobar amplitudes and phase shift for, (T), 22:32145

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 360 to 780 MeV, amplitude of $\Delta(1236)$ production in, (E/T), 23:25621

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 360 to 780 MeV, one-meson approximation for $\pi^+ + \pi^- \rightarrow \pi^+ + \pi^-$ interaction cross sections from, (T), 24:24355

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 4 GeV/c, N^{*0} and rho^0 production in, (E), 23:14976

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 4 GeV/c, S-wave phase shift for $\pi + \pi$ interactions from, 25:45741

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 4 GeV/c, s-wave π-π amplitude from, (E/T), 21:25297

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 4.0 GeV/c, I = 0 $\pi^-\pi^+(1050)$ resonance in, (E), 22:41739 (COO-1428-84)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 4.16 GeV/c, resonance production in, (E), 22:39293

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 4.7 GeV/c, production of $\pi^+\pi^-(1549)$ resonance in, (E), 21:7470

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 400 MeV, properties of $\Delta(1236)$ production in, (E), 24:3546

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 456, 505, and 552 MeV/c, $\pi\pi$ enhancement in, (E), 24:30453 (CONF-690521-, pp 316-25)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 5 GeV/c, longitudinal phase-space analysis of, (E/T), 25:14578

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 5 to 16 GeV/c, generalized Veneziano model for π exchange in, 25:25445

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 5.0 GeV/c in bubble chamber, resonance production in, (E), 22:41734 (COO-1428-71)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 516 to 715 MeV, π^+ momentum distributions from, (E), 21:18921

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 6 GeV/c in hydrogen bubble chamber, N(1400) production in, (E), 22:11588

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 6 GeV/c, I = 1 di-pion resonance at 1.63 GeV from, (E), 21:15270

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 6 GeV/c, I = 1 di-pion resonance at 1.63 GeV from, (E), 21:15270

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 650 MeV in hydrogen bubble chamber, cross sections for, 22:7446

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 7 GeV/c in OPE model, momentum transfer spectrum and N(1400) production in, 23:18904

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 7 GeV/c, $\pi^-\pi^+$ phase shifts in 1.0 to 1.2 GeV region from, (E/T), 24:30521 (CONF-690521-, pp 75-92)

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 7 GeV/c, $\pi^-\pi^+$ phase shifts and mass enhancement from, (E), 23:42562

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 7 GeV/c, $\pi\pi$ phase shifts to 1.4 GeV from, (E/T), 24:37661

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 720 MeV/c with small momentum transfers, cross sections and sign of amplitude for $\pi^+ + \pi^+$ interactions from, (E), 24:8569

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 751 MeV/c, (E), 21:23314 (BNL-994, pp 70-102)

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 8 and 16 GeV/c in heavy-liquid bubble chamber, comparative analysis for, (E), 22:15686

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 8 GeV in hydrogen bubble chamber, resonance production from, 21:25237 (NYO-2171-218)

interactions $\pi^+ + p \rightarrow \pi^+ + \pi^+ + n$ at 8 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 8 GeV/c, production and decay of rho^0 and f^0 in, (E), 21:46489

interactions $\pi^- + p \rightarrow \pi^- + \pi^+ + n$ at 8 GeV/c, rho^0, f^0, and g^0 production in, (E), 22:5513

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 870 MeV, angular distributions of $(\pi^- n)$ system from, 22:20265

interactions $\pi^- + p \rightarrow \pi^+ + \pi^- + n$ at 870 MeV, Cherenkov counter and spark chamber study of meson (π^+) momentum from, (E), 23:51855 (CEA-R-3544)

interactions $\pi^+ + p \to \pi^+ + \pi^+ + n$ at high energies, model for single π production from, 21:19023
interactions $\pi^- + p \to \pi^+ + \pi^- + n$ at high energies, π^+ n mass spectrum from, (E), 24:24252
interactions $\pi^- + p \to \pi^+ + \pi^- + n$ at low energies, chiral dynamics for cross sections, mass distributions, and angular distributions of, 23:42678
interactions $\pi^- + p \to \pi^- + \pi^+ + n$ at threshold to 1 GeV, s-wave $\pi\pi$ phase shifts, meson (rho^0) parameters, and helicity amplitudes from angular correlation analysis of, (E), 23:51919 (NAL-29)
interactions $\pi^+ + p \to \pi^+ + \pi^+ + n$ from threshold to 700 MeV, partial-wave amplitudes for, 21:18995
interactions $\pi^- + p \to \pi^+ + \pi^- + n$ in bubble chamber, rho production from, 21:42267
interactions $\pi^- + p \to \pi^+ + \pi^- + n$ near threshold, partial-wave amplitudes and differential cross sections for, (T), 22:44431
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, absorption model for $\pi\pi$ phase shift from, (T), 24:45511
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, analysis of s-wave $\pi\pi$ amplitudes from, 22:5564
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, breakdown of charge symmetry from ω—rho mixing in, 25:53183 (UCRL-20655, pp 250a-76)
interactions $\pi^- + p \to \pi^- + \pi^+ + N$, characteristics of diffraction dissociation for, 24:8657
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, chiral dynamics calculation of cross section for, (T), 24:49517
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, chiral-dynamics calculation of cross sections for, (E/T), 24:35654
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, cross sections for elastic $\pi^+ + \pi^-$ interactions from, 25:33558
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, determination of cross sections from OPE model and N* production for, (E/T), 23:14966
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, determination of sign of amplitude for $\pi^+\pi^-$ scattering using, (E), 23:3648
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, discrepancy between single π photoproduction using polarized γ and vector dominance model for, (T), 23:15017
interactions $\pi^+ + p \to \pi^+ + \pi^+ + n$, Δ(1920) and Δ(2420) production in, (T), 22:26662
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, effects on phase shifts for $\pi + \pi$ and $K + \pi$ interactions from N^{*-} states in, (T), 24:3663
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, factorization model for $\pi\pi$ phase shifts in rho region from, 24:8639
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, G(1670) production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, hard-pion calculation of $\pi\pi$ scatering lengths from, 25:1544
interactions $\pi^- + p \to \pi^- + \pi^+ + N$, mass dependence of momentum transfer distributions in diffractive, (T), 24:42905
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, method for $\pi\pi$ phase shift analysis for, 22:1443
interactions $\pi^- + p \to \pi^+ + \pi^- + N$, model for resonance production from, 21:42360
interactions $\pi^- + p \to \pi^- + \pi^- + n$, off-shell amplitudes for $\pi + \pi$ interactions from, (T), 25:41011
interactions $\pi^- + p \to \pi^- + \pi^+ + n$, partial-wave amplitudes for, 21:18995
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, phase shifts from forward—backward asymmetry for $\pi\pi$ masses in, 23:44656 (COO-1428-142)
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, production of Δ(1236) in, (E), 23:30712
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, production of $I = 0$, D-wave $\pi\pi$ resonance in, 21:9792
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, $\pi^- + p \to \pi^0 + \pi^0 + n$, and $\pi^- + p \to \pi^- + \pi^0 + p$, $\pi + \pi$ interaction and nucleon energy distribution in, (T), 23:13101
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, $\pi\pi(480)$ enhancement in, (E), 24:30452 (CONF-690521-, pp 285-99)
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, resonance approximation for rho production in, 25:9894
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, S-wave $\pi\pi$ phase shift from, (E), 25:59306
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, $T = J = 0$ $\pi\pi$ phase shift from, 22:50409
interactions $\pi^+ + p \to \pi^+ + \pi^+ + N$, test of Pomeranchuk exchange dominance in, 23:23480
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, test of single-channel Lovelace—Wagner—Veneziano model in off-mass-shell behavior of $\pi + \pi$ amplitude in, (T), 24:26500
interactions $\pi^- + p \to \pi^+ + \pi^- + n$, test of Weinberg off-mass-shell dependence of $\pi + \pi$ scattering amplitude from, (E/T), 23:42662
interactions $\pi^- + p \to \pi^- + \pi^- + N^{*++}$ at 16 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $\pi^+ + p \to \pi^+ + \pi^- + N^{*++}$ at 5 to 16 GeV/c, generalized Veneziano model for π exchange in, 25:25445
interactions $\pi^+ + p \to \pi^+ + \pi^- + N^{*++}$ at 8 GeV/c, longitudinal phase space analysis of, (E/T), 23:36840
interactions $\pi^+ + p \to \pi^+ + \pi^- + N^{*++}$, method for $\pi\pi$ phase shift analysis for, 22:1443
interactions $\pi^- + p \to \pi^- + \pi^- + N^{*++}$, $\pi^+\pi^-$ (400 MeV) enhancement in, 21:15347
interactions $\pi^- + p \to \pi^- + \pi^+ + n(p) + \pi^0(\pi^-)$ at 720 MeV in hydrogen bubble chamber, cross sections for, (E), 22:15687
interactions $\pi^- + p \to \pi^+ + \pi^- + p$ at 5 GeV/c, multi-Regge-model analysis of, (E/T), 24:45532
interactions $\pi^+ + p \to \pi^+ + \pi^- + p$, exotic exchange and kinematical reflection in, (T), 24:3663
interactions $\pi^- + p \to \pi^- + \pi^+ + p$, model for resonance production from, 21:42360
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^0 + \Delta^{++}$ at 3 to 4 GeV/c, kinematic origin of H enhancement in, (E), 22:37088
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^0 + \Delta^{++}$ at 3.7 to 4.0 GeV/c in bubble chamber, ω^{0}rho^0 interference in, (E), 23:42559 (UCRL-18894)
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^0 + n$ at 1.245 GeV/c, Dalitz plot asymmetry for $\omega \to \pi^+ + \pi^- + \pi^0$ decay in, (E), 24:40265 (NEVIS-182)
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^0 + n$ at 8 GeV/c in heavy-liquid bubble chamber, cross sections for, 21:33613
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^0 + \pi^+ + p$ at 3.7 GeV/c in hydrogen bubble chamber, H(990) and H(1000) production in, (E), 23:39613 (UCRL-19229)
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p + m\pi^0$ at 7.5 GeV in propane bubble chamber, 21:25240
interactions $\pi^+ + p \to \pi^- + \pi^+ + \pi^+ + p + \pi^0$ at 1.95 GeV/c, N_{33}^*, ω, and eta production in bubble chamber from, 21:18927
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p + \pi^0$ at 3.63 GeV/c in hydrogen bubble chamber, rho$^-$ and ω^0 production in, 21:37704
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p + \pi^0$ at 3.7 GeV/c, resonance production from, (E), 21:18925
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p + \pi^0$ at 3.7 GeV/c, N*, ω^0, and rho$^-$ production from, (E), 21:18925
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p + \pi^0$ at 6.7 GeV/c, meson and nucleon resonance production in, (E), 24:28498
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at 11.2 GeV/c in hydrogen bubble chamber, double Regge-pole model for quasi-three-body states for rho^0, f^0, and Δ^{++} production in, (E/T), 24:32969
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^- + p$ at 16 GeV/c, large wire spark chamber spectrometer for analysis of, 24:36616 (SLAC-PUB-754)
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 16 GeV/c, orbital-angular-momentum structure of A_1 from, (E/T), 24:24366
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 2.26 GeV/c, angular distributions and phase shift for $\pi^- + \pi^-$ scattering from, (E), 23:18808
interactions $\pi^+ + p \to \pi^+ + \pi^+ + \pi^- + p$ at 20 to 120 GeV, proposed experiment for meson resonance production in, 24:51956 (TID-25473(Vol.4), pp 237-66)
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at 20 to 120 GeV, proposed experiment for meson resonance production in, 24:51956 (TID-25473(Vol.4), pp 237-66)
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at 25 GeV in bubble chamber, multi-Regge exchange in, (E), 24:24237 (ANL/HEP-6909, pp 60-72)
interactions $\pi^+ + p \to \pi^- + \pi^+ + \pi^+ + p$ at 3.2 to 8.4 GeV/c $\pi\pi$ phase shift analysis from, (E/T), 24:30455 (CONF-690521-, pp 339-51)
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 3.63 GeV/c in hydrogen bubble chamber, rho^0 and N*(1238) production in, 21:37704
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 3.9 GeV/c, effect of background on $I = 2$ $\pi\pi$ phase shift analysis for, 23:36931 (UH-511-49-69)
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 3.9 GeV/c, processes causing peaking in $\pi^-\pi^-$ scattering angular distribution in, (E/T), 23:14970
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at 3.9 GeV/c, resonance production processes in, (E), 24:51976
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at 6 GeV/c in bubble chamber, cross sections for, (E), 24:40279
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 6.7 GeV/c, meson and nucleon resonance production in, (E), 24:28498
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 6.7 GeV/c, $\pi^-\pi^-\pi^+$ mass structure in, (E), 23:14989
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 6.7 GeV/c, resonance production and cross sections for, (E), 24:18080
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 7 and 25 GeV/c, production and decay of N*(1500) and N*(1700) in, 25:59307
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^- + p$ at 8 GeV/c in heavy-liquid bubble chamber, cross sections for, 21:33613
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + p$ at 8 GeV/c in hydrogen bubble chamber, resonance production in, (E), 22:20151
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + p$ at high energies, angular and momentum distributions in, (E), 24:24252
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^+ + p$ in bubble chamber, rho production from, 21:42267
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^- + p$, chiral SU(3) x SU(3) phenomenological Lagrangian for, 23:36906
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^+ + p$, diffraction dissociation mechanism for A_1 production in, (T), 21:23334
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^- + p$, diffraction-dissociation model for threshold enhancements in, (T), 25:38747
interactions $\pi^+ + p \to \pi^+ + \pi^- + \pi^+ + p$, Monte Carlo calculation of $p\pi^+\pi^+$ (1560) in, 22:32142 (UCID-2752)
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + \pi^0 + p$ at 6.7 GeV/c, angular distributions and cross sections for resonance production in, (E), 24:18092
interactions $\pi^+ + p \to \pi^+ + \pi^+ + \pi^- + \pi^0 + p$, cross sections for B^+ production in, (E), 22:50369 (UR-875-253)
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + \pi^0 + p$, cross sections for B^- production in, (E), 22:50369 (UR-875-253)
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^- + \pi^0$ at 3 GeV/c, N*(2080) and N* (2190) production from, (E), 21:18917
interactions $\pi^+ + p \to \pi^- + \pi^+ + \pi^+ + \pi^+ + N$ at 1.95 GeV/c in hydrogen bubble chamber, 21:18927
interactions $\pi^+ + p \to \pi^+ + \pi^+ + \pi^+ + \pi^- + n$ at 2.95 to 4.08 GeV/c in hydrogen bubble chamber, Δ(2850) and double resonance production in, (E), 22:37081 (UCRL-18254)
interactions $\pi^- + p \to \pi^+ + \pi^+ + \pi^- + \pi^- + n$ at 2.96 GeV/c in hydrogen bubble chamber, production of Δ^-(1236) and rho^0 in, (E), 22:20145
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + \pi^+ + n$ at 3.7 GeV/c, (E), 21:18925
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + \pi^+ + n$ at 6.7 GeV/c, angular distributions and cross sections for resonance production in, (E), 24:18092
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^+ + \pi^+ + n$ at 6.7 GeV/c, meson and nucleon resonance production in, (E), 24:28498
interactions $\pi^- + p \to \pi^+ + \pi^- + \pi^+ + \pi^- + n$ at 8 GeV/c in heavy-liquid bubble chamber, cross sections for, 21:33613
interactions $\pi^- + p \to \pi^- + \pi^- + \pi^- + \pi^+ + \pi^+ + p$ at 3.9 GeV/c, model of incoherent resonance production in, (E/T), 24:40274
interactions $\pi^- + p \to \pi^- + \pi^+ + \pi^- + \pi^+(\pi^0) + n(p)$ at 7 GeV/c, $\pi + \pi$ elastic and inelastic interactions, and mesons (rho), (f), and (g) production in, (E), 24:10681
interactions $\pi^- + p \to \pi^+ + \pi^-$ n at 3 and 4 GeV/c, magnetic spectrometer—spark chamber study of final state $\pi + \pi$ interactions from, 21:33624
interactions $\pi^- + p \to \pi^- + \pi^+(\omega^0) + n(p)$, Veneziano model prediction of rho'' daughter resonance contribution to amplitudes of, (T), 25:9786
interactions $\pi^- + p \to \pi^- + \pi^+(\pi^0) + n(p)$ at 1.89 to 3.00 GeV/c in bubble chamber, determination of phase shifts from Chew—Low extrapolation for, (E), 23:36834 (NYO-2171-271)
interactions $\pi^- + p \to \pi^- + \pi^+(\pi^0) + n(p)$ at 339 MeV in hydrogen bubble chamber, Δ and N^{*-} (1/2, 1/2) production in, (E), 24:51973
interactions $\pi^- + p \to \pi^- + \pi^+(\pi^0) + n(p)$ at 7 GeV/c, $\pi + \pi$ elastic and inelastic interactions, and meson (rho), (f), and (g) production in, (E), 24:10681
interactions $\pi^- + p \to \pi^- + \pi^+(\pi^0) + n(p)$, quark model predictions for forward production of Δ(1236) in, (E/T), 25:30738
interactions $\pi^- + p \to \pi^- + \mathrm{rho} + p$ at 25 GeV/c, multi-Regge theory for kinematics and dynamics of, 25:3389
interactions $\pi^+ + p \to \pi^+ + \mathrm{rho}^0 + p$ at 13.1 GeV/c in hydrogen bubble chamber, double Regge pole analysis of, (E/T), 24:35610 (COO-1428-207)
interactions $\pi^+ + p \to \pi^+ + \mathrm{rho}^0 + p$ at 13.1 GeV/c in hydrogen bubble chamber, double Regge-pole analysis of resonance production in, (E), 24:37643 (COO-1428-218)
interactions $\pi^+ + p \to \pi^+ + \mathrm{rho}^0 + p$ at 13.1 GeV/c in hydrogen bubble chamber, double Regge exchange model for, (E/T), 24:40386 (COO-1428-170)
interactions $\pi^+ + p \to \pi^+ + \mathrm{rho}^0 + p$ at 13.1 GeV/c, double-Regge analysis of, (E/T), 24:40404
interactions $\pi^+ + p \to \pi^+ + \mathrm{rho}^0 + p$ at 13.1 GeV/c, double-Regge-pole analysis of, 24:49327
interactions $\pi^- + p \to \pi^- + \mathrm{rho}^0 + p$ at 8 GeV/c in hydrogen bubble chamber, πrho system in, 21:29462
interactions $\pi^- + p \to \pi^- + X + p$, $X \to \pi^+ + \pi^-$ at 25 GeV in bubble chamber, consistency of multi-Regge exchange model for, 23:14985
interactions $\pi^- + p \to \pi^- + X$ at 8 and 16 GeV/c, duality in triple Regge limit, (T), 25:43649
interactions $\pi^+ + p \to \pi^- + X^{+++}$ at 3.88 GeV/c, search for $I = 5/2$ isobar in, (E), 25:7553 (JINR-P1-5059)
interactions $\pi^+ + p \to \pi^- + X^{+++}$ at 3.88 GeV/c, search for $T = {}^5/_2$ isobar from π^- spectrum in, (E), 25:14576
interactions $\pi^- + p \to \pi^-$ $(\pi^0) + p(n)$, zeros in droplet model for, 23:39728
interactions $\pi^+ + p \to \pi^+$ (rho$^+$) + p, zeros in droplet model for, 23:39728
interactions $\pi^- + p \to \pi^+ \pi^- + 2\pi^0 + n$ at 4 BeV/c, π^0 production cross sections for, (E), 21:876 (JINR-P-2885)
interactions $\pi^- + p \to \pi^+(K^+) + \pi^- + \Lambda^0 + K^0$ at 4.0 GeV/c, Σ(1385), K(890), and N(1710) production cross sections in, (E), 24:3545
interactions $\pi^- + p \to \pi^-(\pi^0) + p(n)$ at low energies, Coulomb corrections for, (T), 25:43599
interactions $\pi^- + p \to \pi^-(\pi^0) + p(n)$, absorption model for backward, (T), 25:53187
interactions $\pi^+ + p \to \mathrm{rho} + \Delta(1236)$ at 4 and 8 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^+ + p \to \mathrm{rho} + N + \pi$ at 4 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $\pi^+ + p \to \mathrm{rho} + N^* + \pi$ at 4 GeV/c, method from statistical model for branching ratio for, 21:33711
interactions $\pi^- + p \to \mathrm{rho} + n$, $\mathrm{rho} \to e^+ + e^-$, at 4.0 GeV/c, spark chamber—Cherenkov spectrometer study of cross sections and widths for, (E), 22:1389
interactions $\pi^- + p \to \mathrm{rho} + p$ in absorption model, cross section for, 25:5381
interactions $\pi^- + p \to \mathrm{rho}\ (\omega) + n$ at 4.0 GeV/c, spark chamber and Cherenkov gamma spectrometer study of, (E), 22:22280 (JINR-E1-3770)
interactions $\pi^- + p \to \mathrm{rho}^0 + \Delta(1236)$ at 3.25 GeV/c in hydrogen bubble chamber, Regge pole model for cross sections of, (E), 22:48241
interactions $\pi^+ + p \to \mathrm{rho}^0 + \Delta(1236)$ at high energies, polarization in reaction plane for additivity assumption of quark model, 23:42674

interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta(1236)$, Regge-pole model for π exchange in, 22:26657
interactions $\pi^- + p \rightarrow \text{rho}^0 + \Delta^+$ at 50 GeV/c, design of experiment on, (E), 24:51953 (TID-25473(Vol.4), pp 19-58)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 11.7 GeV/c in hydrogen bubble chamber, total and differential cross sections, and spin density matrix elements for, (E/T), 25:40881 (NP-18881)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 11.7 GeV/c, Regge-pole analysis of, (E/T), 25:59499
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 11.7 GeV/c, total and differential cross sections for, (E/T), 25:27960 (DESY-71/8)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 11.7 GeV/c, total and differential cross sections for, (E/T), 25:59315
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 13.1 GeV/c in bubble chamber, differential cross sections and rho density matrix elements for, (E), 24:40262 (COO-1428-216)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 13.1 GeV/c, differential cross section and rho density-matrix elements for, (T), 24:40401
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 2.35 to 16 GeV/c, form factors and decay distributions for resonances in one-pion-exchange model for, (T), 25:45747 (INR-P-1323)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 4, 5, and 8 GeV/c, natural and unnatural parity exchange contributions to cross sections for, (T), 22:46458
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at 50 GeV/c, design of experiment on, (E), 24:51953 (TID-25473(Vol.4), pp 19-58)
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$ at small momentum transfer, Regge cut model for, 24:3588
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$, π trajectory in, 24:20163
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$, Regge-pole model with M = 1 pion for, 23:5635
interactions $\pi^+ + p \rightarrow \text{rho}^0 + \Delta^{++}$, vector-dominance-model relation between $\gamma + p \rightarrow \pi^- + \Delta^{++}$ interactions and, 24:12976
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 11 GeV/c, Regge-pole analysis of, (E/T), 25:59499
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 11.2 GeV/c, cross sections and density matrix elements for, (E), 22:48232
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 12 GeV/c, μ pair production from, (E), 21:2378
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 15 d 16 GeV/c in heavy liquid bubble chamber, cross sections for, (E), 25:30741
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 15 GeV/c, comparison of $\gamma + N \rightarrow \pi + N$ interactions with, (E/T), 25:33569
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 2.7 to 11 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 4 and 8 GeV/c, vector-dominance model comparison of $\gamma + p \rightarrow \pi^+ + n$ and, 22:34916
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 7 GeV/c in bubble chamber, angular distributions from, (E), 25:59286
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at 8 GeV/c, momentum transfer dependence of cross sections for, (T), 22:48322
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ at high energies, quark model predictions for, 23:21106
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ below 16 GeV, vector dominance model for comparison with $\gamma + p \rightarrow \pi^+ + n$ interactions below 16 GeV, 22:29652 (DESY-68/6)
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ in meson (π^-) reactions with nuclei at 2 to 6 GeV/c, $\text{rho}^0 \rightarrow \pi^+ + \pi^-$ in, (E), 22:13666
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ in vector-dominance model, nonevasive contribution to forward rho production in, (T), 25:12212
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ in Veneziano model, test of rho universality from frame dependence of vector dominance in, 25:14710
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ interactions at above 10 GeV/c, vector dominance for predictions of forward peak in, (T), 24:3651 (DESY-69/40)
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$ vector-meson dominance predictions of amplitudes for, 24:42980
interactions $\pi^+ + p \rightarrow \text{rho}^0 + N^*$ at high energies, O(3, 1) symmetry in partial-wave expansion for, 24:3667
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, comparison of isovector part of $\gamma + p \rightarrow \pi^+ + n$ interactions with u-channel, 24:52010
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, cross sections and rho spin density matrices in Regge models for, (E/T), 25:5380
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, fixed j-plane singularities in photoproduction from, (T), 25:14625
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, ω Regge-exchange contribution to, 22:7515
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, π exchange and duality for forward structure of, 23:39726
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, Regge-pole and Veneziano models for forward peak in, 25:7664
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, structure in forward direction in, 24:49475
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, test of vector dominance model from, 23:5569
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, vector dominance discrepancy in relation with polarized $\gamma + N \rightarrow \pi + N$ interactions, 23:23408
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, vector dominance model for analysis of, 25:45760
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, vector dominance model tests from rho^0 production in, 24:37795
interactions $\pi^- + p \rightarrow \text{rho}^0 + n$, vector-meson dominance analysis of, 22:26664
interactions $\pi^+ + p \rightarrow \text{rho}^0 + N^{*++} \rightarrow \pi^+ + \pi^- + \pi^+ + p$ at 3.665 GeV/c, peripheral models for, 22:11680
interactions $\pi^+ + p \rightarrow \text{rho}^0 + N^{*++}$ at 8 GeV/c, quark model predictions for joint decay distributions of resonances in, 24:13092
interactions $\pi^+ + p \rightarrow \text{rho}^0 + N^{*++}$ at 8 GeV/c, quark model predictions for joint decay distributions from, 24:1596
interactions $\pi^+ + p \rightarrow \text{rho}^0 + N_{33}^{*++}$, several Regge pole hypothesis for, 21:33709
interactions $\pi^- + p \rightarrow \text{rho}^0 + \pi^- + p$ at 4.45 GeV/c in hydrogen bubble chamber, mass distributions for, (E) , 25:9656 (ITEF-775)
interactions $\pi^- + p \rightarrow \text{rho}^0 + \pi^- + p$ at 4.45 GeV/c in hydrogen bubble chamber, differential cross sections and mass distributions for, (E), 25:9663
interactions $\pi^- + p \rightarrow \text{rho}^0 + \pi^- + p$ at 4.45 GeV/c in hydrogen bubble chamber, Deck effect in effective mass distribution of πrho system in, (E), 25:22695
interactions $\pi^- + p \rightarrow \text{rho}^0 + \pi^- + p$ at 4.45 GeV/c in hydrogen bubble chamber, Deck effect in mass and angular distributions for, (E), 25:38660 (ITEF-790)
interactions $\pi^- + p \rightarrow \text{rho}^0\ (f^0) + \pi^- + p$ at 11.2 GeV/c in hydrogen bubble chamber, double Regge-pole model for quasi-three-body states in, (E/T), 24:32969
interactions $\pi^+ + p \rightarrow \text{rho}^0(f^0) + \Delta^{++}$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $\pi^+ + p \rightarrow \text{rho}^0(f^0) + \Delta^{++}$, differential cross sections for, 23:10817
interactions $\pi^- + p \rightarrow \text{rho}^0(\omega) + n$, SU(3) x SU(3) with vector dominance and Regge pole model for sum rule for, 23:42609
interactions $\pi^+ + p \rightarrow \text{rho}^0(\omega^0) + \Delta^{++}$, π—B exchange degenerate model for, (T), 24:45536
interactions $\pi^- + p \rightarrow \text{rho}^0(\text{rho}^-) + n(p)$ at 1.59 to 4.16 GeV/c in hydrogen bubble chamber, review and phenomenological analysis for angular distributions and diffraction peak shrinkage in, (E), 24:10690
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ above 3 GeV/c, rho^+ production and decay in, (T), 21:4052
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ above GeV/c, rho^- production and decay in, (T), 21:4052
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 1.7 GeV/c, cross section for, (E), 23:7101
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 1.780 to 2.140 MeV in hydrogen bubble chamber, differential cross sections, angular distributions, and density matrix elements of $\text{rho}^{\pm}$ in, (E), 25:43553 (UCR-34-P-107-B-120)
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 1.85 to 2.09 GeV in hydrogen bubble chamber, cross sections, angular distributions, and Dalitz plot for, (E), 25:43552 (UCR-34-P-107-B-110)
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 16 GeV/c, cross sections for, (E), 23:34540
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 2.26 GeV/c, spin density matrix elements for rho-decay from, (E), 22:46341
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 2.34 GeV/c, cross sections for, (E), 23:8736 (JINR-P1-4097)
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 2.34 GeV/c, data on, (E), 23:18806 (JINR-P1-4271)
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 2.7 and 3 GeV/c, model for rho production in, (E/T), 23:15113
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 3 GeV/c, effect of Kronecker-delta terms in one-pion-exchange absorption model for, 23:36946
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 4 and 8 GeV/c, absorption model predictions of cross sections and density matrix elements for, 24:3675
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 4 GeV/c, absorption model for, 22:7511
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 4.0 and 8.0 GeV/c, Regge pole model for, 22:9588 (RLO-2041-1)
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 8 GeV/c, pole-vector-dominance model and current conservation in, 24:20154 (ITF-69-70)
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 8 GeV/c, Regge pole analysis of rho^- production and decay angular distributions from, (T), 21:21241
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at 8 GeV/c, spin and phase effects on overlap functions for, (T), 24:1608
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 8 GeV/c, vector dominance and current conservation for t-channel helicity relations in Regge models for, 24:35659
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at 8 GeV/c, vector-meson exchange in, (E), 21:11740
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$ at high energies, model of π exchange and exchange-degenerate ω—f poles for, 24:52107
interactions $\pi^- + p \rightarrow \text{rho}^- + p$ at high energies, model of π exchange and exchange-degenerate ω—f poles for, 24:52107
interactions $\pi^- + p \rightarrow \text{rho}^- + p$, angular distributions for, (E), 23:10817
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, coherent droplet model with long-range pion exchange for forward peak structure in, (T), 25:14722
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, differential cross sections for, 23:10817
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, dual resonance model for $\pi\pi\pi$N anti N five-point function for, (T), 24:45538
interactions $\pi^- + p \rightarrow \text{rho}^- + p$, fixed j-plane singularities in photoproduction from, (T), 25:14625
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, forward peak structure of differential cross sections for, (E/T), 24:37788
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, ω Regge-exchange contribution to, 22:7515
interactions $\pi^- + p \rightarrow \text{rho}^- + p$, ω Regge-exchange contribution to, 22:7515
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, Regge-pole model with M = 1 pion for, 23:5635
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, Regge-pole-exchange predictions for, 21:25301
interactions $\pi^+ + p \rightarrow \text{rho}^+ + p$, two-parameter model for, (T), 25:14574
interactions $\pi^- + p \rightarrow \text{rho}^- + p$, two-parameter model for, (T), 25:14574
interactions $\pi^- + p \rightarrow \text{rho}^- + \pi^0 + p$ at 8 GeV, diffraction scattering effects on, (T), 21:19015
interactions $\pi^- + p \rightarrow$ sigma + n at high energies, nonfactorization of meson (π) exchange in, (T), 24:6727
interactions $\pi^+ + p \rightarrow \Sigma(1385) + K^+$ at 1.7 GeV/c, vector-dominance models for, (E/T), 25:1425
interactions $\pi^- + p \rightarrow \Sigma^0 + K^{*0}$ at 1.6 to 4.2 GeV/c, (E), 21:42273
interactions $\pi^- + p \rightarrow \Sigma^0 + K^{*0}$, rescattering model for, 23:21118
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 0.89 to 1.13 GeV/c, spark-chamber study of, (E), 24:18085
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 1.12 to 1.32 GeV/c, total cross sections, angular distributions, and polarization distributions for, (E), 23:46618
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 1.5 GeV/c, cross sections and angular distributions for, (E), 22:24561
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 1.5 to 4.2 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:5510
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 1128 to 1326 MeV/c, angular distributions, cross sections, and polarizations for, (E), 21:3989
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 1170 MV/c, cross sections and polarization of Σ^0 from, (E), 21:9717
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at 6 GeV/c, backward peak in Σ^0 K^0 final state in, (E), 21:9715
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ at high energies, exchange processes in, (T), 23:1641
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ below 2.045 GeV, differential cross sections and polarization for, (E), 24:51951 (N-70-31011)
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$ near threshold, phenomenological model for, 22:13762
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$, contribution of K^* exchange to, (T), 22:46426
interactions $\pi^- + p \rightarrow \Sigma^0 + K^0$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))
interactions $\pi^+ + p \rightarrow \Sigma^0 + K^+ + \pi^+$ at 1.7 GeV/c, production of $\Sigma(1475)$ hyperon resonances in, (E), 24:45438
interactions $\pi^- + p \rightarrow \Sigma^0 + K^+ + \pi^-$, five-point Veneziano amplitude for cross sections and effective-mass and angular distributions for, 25:3378 (ITF-70-77)
interactions $\pi^- + p \rightarrow \Sigma^0(\Lambda) + K^0 + \pi^0$, five-point Veneziano amplitude for cross sections and effective-mass and angular distributions for, (T), 25:3378 (ITF-70-77)
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^{*+}$ at 5.4 GeV/c, angular distributions and differential cross sections for, (E/T), 22:17868
interactions $\pi^- + p \rightarrow \Sigma^- + K^{*+}$, rescattering model for, 23:21118
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^0 + \pi^+$ at 1.1 to 2.4 GeV/c in deuterium bubble chamber, mass, width, and angular distributions for $K^*(890)$ production in, (E), 23:46613 (UCRL-19263)
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^0 + \pi^+$ at 1.1 to 2.4 GeV/c, $K^*(890)$ production in, (E), 24:45408
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^0 + \pi^+$ at 1.1 to 2.4 GeV/c, K^* production in, (E), 24:45437
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+ + \pi^0$ at 1.7 GeV/c, production of $\Sigma(1475)$ hyperon resonances in, (E), 24:45438
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+ + \pi^0$ at 1.95 GeV/c in hydrogen bubble chamber, cross sections and Y_1^* (1385) production in, (E), 21:44283
interactions $\pi^- + p \rightarrow \Sigma^- + K^+ + \pi^0$ at 5.0 GeV/c in hydrogen bubble chamber, (E), 22:41735 (COO-1428-72)
interactions $\pi^- + p \rightarrow \Sigma^- + K^+ + \pi^0$ at 5.0 GeV/c, in hydrogen bubble chamber, $N^*(1570)$ production and decay in, (E), 21:44288
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 0.89 to 1.13 GeV/c, spark-chamber study of, (E), 24:18085
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.1 GeV/c in nuclear emulsions, Σ^+ polarization from, (E), 22:1390
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.111 to 1.265 GeV/c, Σ^+ decay from, (E), 21:18891
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.12 GeV/c, spark chamber study of Σ^+ production in, (E), 24:12944
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1.12 to 1.32 GeV/c, cross sections, angular distributions, and decay asymmetries for, (E), 23:46616
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.28 and 1.41 GeV/c, test of charge independence in, (E/T), 25:59311
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1.5 to 4 GeV/c, rescattering model for angular distributions of, (E/T), 24:24376
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1.5 to 4.2 GeV/c in hydrogen bubble chamber, cross section for, (E), 22:5510
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.7 GeV/c, cross sections for, (E/T), 24:49508
interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1.7 GeV/c, model fits to cross sections for, (E/T), 24:15484
interactions $\pi^- + p \rightarrow \Sigma^- + K^-$ at 1130 MeV/c, polarization of Σ^- in, (E), 23:18814
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1145 MeV/c, Σ^- polarization from, (E), 21:17044 (UCRL-17152)
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1145 MeV/c, Σ^- polarization in, (E), 22:11596
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1145 MeV/c, Σ^- polarization from, (E), 22:22317
interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ at 1170 MeV/c in hydrogen bubble chamber, cross sections for, 22:15691

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 1850 to 2090 MeV, angular distributions, polarization, and partial-wave analysis for, (E), 25:3283

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 3.23 GeV/c, angular distribution and Σ polarization from, (E), 22:5514

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at 5.4 GeV/c, angular distributions and differential cross sections for, (E/T), 22:17868

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ at threshold to 2 GeV, cross sections and polarizations for, 24:15584

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ below 2.045 GeV, differential cross sections and polarization for, (E), 24:51951 (N-70-31011)

interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ below 2.045 GeV, differential cross sections and polarization for, (E), 24:51951 (N-70-31011)

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$ near threshold, phenomenological model for, 22:13762

interactions $\pi^- + p \rightarrow \Sigma^- + K^+$ near threshold, phenomenological model for, 22:13762

interactions $\pi^- + p \rightarrow \Sigma^- + K^+$, data tabulation of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$, data tabulations of kinematics for, 22:48314 (CERN/ECFA-67/16(Vol.3))

interactions $\pi^- + p \rightarrow \Sigma^- + K^+$, interference model for backward, 24:3677

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$, quark model with additivity assumption for backward, 22:5575

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$, $\Sigma^+ \rightarrow p + \pi^0$ at 1.1 GeV/c, spark chamber measurement of Σ^+ polarization in, (E), 24:24253

interactions $\pi^+ + p \rightarrow \Sigma^+ + K^+$, Σ^+ magnetic moment from, (E), 21:2388

interactions $\pi^+ + p \rightarrow \Sigma^+ + \pi^0 + K^+$ at 3.2 GeV/c in hydrogen bubble chamber, (E), 22:13672

interactions $\pi^+ + p \rightarrow \Sigma^+ + \pi^+ + K^0$ at 3.2 GeV/c in hydrogen bubble chamber, (E), 22:13672

interactions $\pi^+ + p \rightarrow \Sigma^+(\Sigma^+(1385)) + K^+$ at 3.56 to 3.82 GeV/c, tests of line reversal in, (E), 25:45674

interactions $\pi^+ + p \rightarrow \Sigma^+(\Sigma^+(1385)) + K^+$ at 3.56 to 3.82 GeV/c in hydrogen bubble chamber, tests of line reversal from comparison of $K^- + p \rightarrow \Sigma^+(\Sigma^+(1385)) + \pi^-$ interactions with, (E), 24:51961 (UCRL-19845)

interactions $\pi^- + p \rightarrow$ unphysical fermion, upper limit for elementary length from, 22:17965

interactions $\pi^- + p \rightarrow V^0 + n$ at 4.0 GeV/c, electron pair production from, (E), 21:15267 (JINR-E1-3148)

interactions $\pi^- + p \rightarrow X^0 + n$ at 1.6 GeV/c, X^0 decay branching ratio and cross sections for, (E), 25:36407

interactions $\pi^- + p \rightarrow \Xi^- + 2K + m\pi$ at 20 GeV in hydrogen bubble chamber, cross sections for, (E), 24:45445

interactions $\pi^- + p \rightarrow Y + K + \pi$ at 2.75 GeV/c in hydrogen bubble chamber, resonance production in, 21:27311

interactions $\pi^- + p \rightarrow Y^{*0} + K^0$ at 1.6 to 4.2 GeV/c, (E), 21:42273

interactions $\pi^- + p \rightarrow Y^{*-} + K^+$ at 2 to 4 GeV/c, peripheral production angular distributions in, (E), 23:14984

interactions $\pi^- + p \rightarrow Y^0 + K + m\pi$ at 20 GeV in hydrogen bubble chamber, cross sections for, (E), 24:45445

interactions $\pi^- + p \rightarrow Y^0 + K^{*0}$ at 1.6 to 4.2 GeV/c, (E), 21:42273

interactions $\pi^+ + p$ above 1 GeV, statistical model with SU(3) symmetry for multiple particle production in, 22:32139

interactions $\pi^+ + p$ above 1 GeV, SU(3) symmetry for multiple particle production in, 22:41805 (JINR-P2-3879)

interactions $\pi^- + p$ above 1 GeV, SU(3) symmetry for multiple particle production in, 22:41805 (JINR-P2-3879)

interactions $\pi^+ + p$ above 1 GeV, unitary-symmetrical statistical model for multiple particle production from, 21:21212 (JINR-P2-3182)

interactions $\pi^- + p$ above 1 GeV, unitary-symmetrical statistical model for multiple particle production from, 21:21212 (JINR-P2-3182)

interactions $\pi^+ + p$ above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009

interactions $\pi^- + p$ above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009

interactions $\pi^+ + p$ above 2 GeV/c, polarization, spin, and parity of resonant states from elastic, 21:18997

interactions $\pi^- + p$ above 2 GeV/c, polarization, spin, and parity of resonant states from elastic, 21:18997

interactions $\pi^+ + p$ above 20 GeV, finite-energy sum rule for consistency test of models for asymptotic behavior of amplitudes for, (T), 25:25417 (JINR-P2-5603)

interactions $\pi^- + p$ above 20 GeV, finite-energy sum rule for consistency test of models for asymptotic behavior of amplitudes for, (T), 25:25417 (JINR-P2-5603)

interactions $\pi^- + p$ above 3 GeV/c with charge exchange and no strangeness exchange, quark model predictions for pseudoscalar and vector meson production in, (E), 23:34532 (INR-1040)

interactions $\pi^+ + p$ above 3 GeV/c with charge exchange and no strangeness exchange, quark model predictions for pseudoscalar and vector meson production in, (E), 23:34532 (INR-1040)

interactions $\pi^- + p$ above 5 GeV/c, absorptive model corrections to Regge pole exchanges in elastic and charge-exchange, 25:3390

interactions $\pi^+ + p$ and $\pi^- + p$ at 8 to 22 GeV/c, sum of total cross sections for, 23:32700

interactions $\pi^- + p$ and $\pi^+ + p$ at 8 to 22 GeV/c, sum of total cross sections for, 23:32700

interactions $\pi^+ + p$ and $\pi^- + p$ at high energies, upper bounds on cross section differences for, 24:33018

interactions $\pi^- + p$ and $\pi^+ + p$ at high energies, upper bounds on cross section differences for, 24:33018

interactions $\pi^+ + p$ at 0.2 to 1.0 GeV, energy dependence of angular correlation effect in multiple π production from, (T), 22:1431

interactions $\pi^+ + p$ at 0.3 to 20 GeV/c, momentum dependence of diffraction slopes in elastic, (T), 23:25642

interactions $\pi^- + p$ at 0.3 to 20 GeV/c, momentum dependence of diffraction slopes in elastic, (T), 23:25642

interactions $\pi^- + p$ at 0.5 to 2.5 GeV, missing mass spectrometer study of boson mass spectrum in, (E), 23:23360 (NP-17812)

interactions $\pi^+ + p$ at 0.5 to 2.65 GeV/c, total cross sections for, (E), 22:26568

interactions $\pi^- + p$ at 0.5 to 2.65 GeV/c, total cross sections for, (E), 22:26568

interactions $\pi^- + p$ at 0.643 to 2.14 GeV/c using polarized target, asymmetry measurements in, (E), 24:3532

interactions $\pi^- + p$ at 0.7 to 1.6 GeV/c, scintillation counter study of cross sections for all-neutral particle production in, (E), 24:26377

interactions $\pi^+ + p$ at 0.82 to 2.74 GeV/c, polarization and differential cross section for elastic, (E), 25:9680

interactions $\pi^+ + p$ at 0.9 to 2.4 GeV/c, total cross sections for, (E), 24:37655

interactions $\pi^+ + p$ at 1 GeV, one-pion exchange processes in, (T), 22:9609

interactions $\pi^- + p$ at 1 GeV, one-pion exchange processes in, (T), 22:9609

interactions $\pi^- + p$ at 1 to 10 GeV/c, analysis of elastic and charge-exchange, (E/T), 22:9607

interactions $\pi^+ + p$ at 1 to 10 GeV/c, analysis of elastic, (E/T), 22:9607

interactions $\pi^+ + p$ at 1 to 12 GeV/c, energy dependence of cross sections in Reggeized multiperipheral model for inelastic, (E/T), 24:37801

interactions $\pi^- + p$ at 1 to 12 GeV/c, energy dependence of cross sections in Reggeized multiperipheral model for inelastic, (E/T), 24:37801

interactions $\pi^- + p$ at 1 to 3 GeV, production and decay distributions of rho and N^{*++} from, (E), 21:35269

interactions $\pi^+ + p$ at 1 to 3 GeV, production and decay distributions of rho and N^{*++} from, (E), 21:35269

interactions $\pi^+ + p$ at 1 to 4 GeV, Fermi statistical model for multiple particle production in, 21:25292

interactions $\pi^- + p$ at 1.0 to 2.0 GeV, constrained phase shift analysis for mass 1800- to 2200-MeV isospin-$^1/_2$ N^* production in, (E/T), 23:42571

interactions $\pi^+ + p$ at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634

interactions $\pi^- + p$ at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634

interactions $\pi^- + p$ at 1.02 to 1.06 GeV/c, search for momentum-dependent fluctuations in cross sections for elastic, (E), 23:23384

interactions $\pi^- + p$ at 1.2 GeV/c, upper limit for neutral boson production in 400-MeV mass region, (E), 23:21062

interactions $\pi^- + p$ at 1.2 to 3.0 GeV/c, differential cross sections and phase shift analysis of elastic, (E), 25:50072

interactions $\pi^+ + p$ at 1.236 GeV, phase of amplitude for forward, (T), 23:44739

interactions $\pi^+ + p$ at 1.28 to 1.84 GeV/c, total and differential cross sections for elastic, (E), 25:59309

interactions $\pi^+ + p$ at 1.3 to 2.8 GeV, modified interference model for, 23:18907

interactions $\pi^- + p$ at 1.3 to 2.8-GeV, modified interference model for, (T), 23:18907

interactions $\pi^+ + p$ at 1.48 GeV/c in hydrogen bubble chamber, resonance production from, 21:37657(R) (ORO-3065-13(and App.A))

interactions $\pi^+ + p$ at 1.5 to 2.5 GeV/c, partial-wave amplitudes for elastic and charge-exchange, (E/T), 25:22831

interactions $\pi^- + p$ at 1.5 to 2.5 GeV/c, partial-wave amplitudes for elastic and charge-exchange, (E/T), 25:22831

interactions $\pi^- + p$ at 1.5 to 20 GeV/c, survey of experimental data on, 22:17872

interactions $\pi^+ + p$ at 1.5 to 20 GeV/c, survey of experimental data on, 22:17872

interactions $\pi^- + p$ at 1.5 to 3.5 GeV/c, parity doublets of nucleon resonances in backward, (E/T), 23:10756

interactions $\pi^+ + p$ at 1.5 to 3.5 GeV/c, parity doublets of nucleon resonances in backward, (E/T), 23:10756

interactions $\pi^- + p$ at 1.5 to 4.2 GeV/c in hydrogen bubble chamber, strange-particle production in, (E), 22:5509

interactions $\pi^- + p$ at 1.5 to 4.2 GeV/c, low-mass K anti K systems from, (E), 21:2379

interactions $\pi^+ + p$ at 1.5 to 5 GeV/c, modified interference model for elastic, 23:23477

interactions $\pi^- + p$ at 1.5 to 5 GeV/c, modified interference model for elastic, 23:23477

interactions $\pi^- + p$ at 1.52 GeV/c using scintillation counters, S^0 (730) production from, 21:23312

interactions $\pi^+ + p$ at 1.53 to 8 GeV/c, overlap functions and relation to partial cross sections for inelastic, 23:30759

interactions $\pi^+ + p$ at 1.54 and 1.95 GeV/c, wire spark chamber study of backward, 21:25235 (BNL-11359)

interactions $\pi^+ + p$ at 1.6 GeV/c, eta, N_{33}^*, and rho^+ production from, (E), 21:15266 (CEA-R-3036)

interactions $\pi^+ + p$ at 1.6 to 2.31 GeV/c, polarization parameter in backward elastic, (E), 25:14577

interactions $\pi^- + p$ at 1.6 to 4 GeV/c, nonlocal exchange model for single meson production from inelastic, 21:25291

interactions $\pi^- + p$ at 1.6 to 5.3 GeV/c, differential cross sections at 180° for elastic, (E), 22:11592

interactions $\pi^- + p$ at 1.6 to 5.3 GeV/c, N^* resonance structure in differential cross sections for elastic, (E), 23:25524 (AD-677067)

interactions $\pi^- + p$ at 1.68 and 2.04 GeV/c, wire spark chamber study of backward, 21:25235 (BNL-11359)

interactions $\pi^- + p$ at 1.68 GeV/c, $Y_0^*(1405)$ production from, (E), 21:23314 (BNL-994, pp 70-102)

interactions $\pi^- + p$ at 1.7 GeV/c in hydrogen bubble chamber, single and multiple π production in, (E), 21:33618

interactions $\pi^+ + p$ at 1.7 GeV/c, cross sections for strange-particle final states in, (E), 25:12104

interactions $\pi^- + p$ at 1.7 GeV/c, optical model analysis of, (T), 22:9800(R) (COO-535-571)

interactions $\pi^- + p$ at 1.7 to 2.5 GeV/c, differential cross sections and polarization for elastic, (E/T), 24:28497

interactions $\pi^- + p$ at 1.7 to 2.5 GeV/c, resonance effects in elastic, 21:27316

interactions $\pi^+ + p$ at 1.7 to 7.8 GeV/c, differential cross sections and polarization in backward elastic, (E/T), 22:34865

interactions $\pi^- + p$ at 1.71 GeV/c in hydrogen bubble chamber, differential cross section for elastic, (E/T), 21:18910

interactions $\pi^- + p$ at 1.72 to 2.46 GeV/c, spark chamber study of N(2190) and Δ(2420) production from elastic, (E), 22:3270

interactions $\pi^+ + p$ at 1.72 to 2.8 GeV/c, $N_3^*(2420)$ production from, (E), 21:37703

interactions $\pi^+ + p$ at 1.72 to 2.80 GeV/c, differential cross sections for elastic, (E), 23:32627

interactions $\pi^- + p$ at 1.72 to 2.80 GeV/c, differential cross sections for elastic, (E), 23:32627

interactions $\pi^- + p$ at 10 GeV, properties of energy-selected particles in inelastic, (E), 25:22694

interactions $\pi^- + p$ at 10 GeV, thermodynamic approximation for secondary meson (π) transverse momentum distribution from, (E), 21:19011

interactions $\pi^- + p$ at 10 GeV/c in hydrogen bubble chamber, mechanism for electron pair production in, (E), 23:36847

interactions $\pi^+ + p$ at 10 GeV/c, Bethe—Salpeter equation for calculation of cross sections for, (T), 24:18196

interactions $\pi^- + p$ at 10 GeV/c, maximum-momentum analysis of angular and momentum distributions for, (T), 25:53214

interactions $\pi^- + p$ at 10 GeV/c, meson (π^0) and electron pair production in, (E), 23:16933

interactions $\pi^+ + p$ at 10 to 17.5 GeV/c, polarization parameter in forward elastic, (E), 25:56437

interactions $\pi^- + p$ at 10 to 17.5 GeV/c, polarization parameter in forward elastic, (E), 25:56437

interactions $\pi^- + p$ at 10 to 20 GeV in hydrogen bubble chamber, two-modal angular distribution of shower particles from, (E), 24:51938

interactions $\pi^+ + p$ at 10 to 26 GeV/c, production of 1.24-, 1.52-, and 1.69-GeV isobars in, (E), 21:37701

interactions $\pi^- + p$ at 10 to 26 GeV/c, production of 1.24-, 1.52-, and 1.69-GeV isobars in, 21:37701

interactions $\pi^- + p$ at 10.5 to 15.5 GeV/c, production of nonstrange meson resonances (3 to 3.8 GeV) in, (E), 24:24257

interactions $\pi^- + p$ at 11 and 16 GeV/c, longitudinal phase space analysis of single and double dissociation in, (E/T), 25:45669

interactions $\pi^- + p$ at 11 GeV/c in hydrogen bubble chamber, production and decay of A_1, A_2, and A_3 in, (E), 23:30711 (CEA-R-3468)

interactions $\pi^- + p$ at 11 GeV/c, analysis of 2π, 3π, and 4π resonance production in, 24:8570

interactions $\pi^- + p$ at 11 GeV/c, branching ratio for $K_2^0 \rightarrow \mu^- + \mu^+$ decay from, (E), 23:42538

interactions $\pi^- + p$ at 11 GeV/c, double Regge pole model for three-body production in, 23:21102

interactions $\pi^- + p$ at 11 GeV/c, production cross sections and t-dependence for, (E), 21:15272

interactions $\pi^- + p$ at 11 to 25 GeV in bubble chamber, transfer momentum distribution of secondaries from, 25:47744

interactions $\pi^- + p$ at 11.2 GeV/c, evidence for A_1(1070) resonance in $(3\pi)^-$ mass spectra from, (E), 24:35611

interactions $\pi^- + p$ at 11.5 GeV/c, differential cross section dependence on momentum transfer from missing-mass spectrometer study of, (E), 22:46342

interactions $\pi^- + p$ at 12 GeV/c in hydrogen bubble chamber, Δ^{++}(1236), rho^0(765), and (2420) meson resonance enhancement in six-prong, (E), 25:1414 (UH-511-77-70)

interactions $\pi^- + p$ at 1225 to 2070 MeV/c, comparison of phase shift analysis with differential cross sections for elastic, (E/T), 24:28552

interactions $\pi^- + p$ at 1400 to 2000 MeV, total and differential cross sections for, (E), 25:38665

interactions $\pi^+ + p$ at 15 to 60 GeV/c, total cross sections for, (E), 25:53014

interactions $\pi^- + p$ at 16 and 25 GeV/c, Poisson distribution for meson multiplicity in, 25:25448

interactions $\pi^- + p$ at 16 and 60 GeV/c, inelastic charged multiplicities from, (E/T), 25:30739

interactions $\pi^+ + p$ at 16 GeV, production and decay of B(1235) and rho(1710) in, (E), 25:38669

interactions $\pi^- + p$ at 16 GeV, production and decay of B(1235) and rho(1710) in, (E), 25:38669

interactions $\pi^- + p$ at 16 GeV/c in multiperipheral model, comparison of $\pi^+ + p$ and $K^- + p$ interactions with, (T), 24:52103

interactions $\pi^- + p$ at 16 GeV/c, cross sections and meson and baryon resonance production in six-prong, (E), 23:13040

interactions $\pi^- + p$ at 16 GeV/c, multiparticle production in, (E/T), 24:21981

interactions $\pi^- + p$ at 16 GeV/c, partial cross sections for, (E), 24:3542

interactions π^+ + p at 1600 to 1700 MeV, constrained phase-shift analysis of, 25:41020
interactions π^- + p at 17 GeV, spin of multipion resonance (3200) from, (E), 21:13681
interactions π^- + p at 17 GeV/c, azimuthal correlations in decays of 1.5- to 2.5-GeV mesonic resonances produced in, (E), 25:5366
interactions π^- + p at 17.2 GeV/c in emulsions, angular distribution of secondary pions in, (E), 22:34864
interactions π^- + p at 17.2 GeV/c in emulsions, azimuthal effects and diffraction dissociation in two- and three-prong, (T), 24:18195
interactions π^- + p at 17.2 GeV/c in emulsions, proton momentum spectrum from, (E), 25:14564
interactions π^- + p at 17.2 GeV/c in emulsions, resonances in distribution of residual effective mass in, (E), 22:39294
interactions π^+ + p at 18.5 GeV/c, cross sections for production of rho^0, f^0, g^0, eta^0, ω^0, and Δ^{++}(1236) in, (E), 25:9677
interactions π^- + p at 18.5 GeV/c, longitudinal and transverse momentum distributions for π^- from inclusive, (E), 25:38671
interactions π^+ + p at 18.5 GeV/c, longitudinal and transverse momentum distributions for π^- from inclusive, (E), 25:38671
interactions π^- + p at 2 to 16 GeV/c, proton angular distributions from, (E/T), 21:17119
interactions π^+ + p at 2 to 17 GeV, surface-wave description of backward, 24:13086
interactions π^- + p at 2 to 18 GeV, new interference model for forward charge-exchange, 24:20170
interactions π^- + p at 2 to 2.2 GeV/c, N$_1^*$(2190) production in, (E/T), 21:2477
interactions π^- + p at 2 to 5 GeV/c, partial wave amplitudes for elastic, (E/T), 25:59304
interactions π^+ + p at 2 to 5 GeV/c, partial-wave amplitudes for elastic, (E/T), 24:49524
interactions π^+ + p at 2 to 6 GeV/c, polarization and spin-rotation predictions from Regge fit to, 23:42673
interactions π^- + p at 2 to 6 GeV/c, polarization and spin-rotation predictions from Regge fit to, 23:42673
interactions π^+ + p at 2 to 6 GeV/c, validity of interference model for, 22:17968
interactions π^+ + p at 2 to 6 GeV/c, validity of interference model for, 22:46455
interactions π^- + p at 2 to 6 GeV/c, validity of interference model for, 22:17968
interactions π^- + p at 2 to 6 GeV/c, validity of interference model for, 22:46455
interactions π^- + p at 2.0 GeV/c in bubble chamber, differential cross sections for elastic, (E/T), 23:42577
interactions π^+ + p at 2.06 to 4.70 GeV/c, Δ(2840) production from, (E), 21:17057
interactions π^- + p at 2.1 GeV/c, π—π interactions in, (E/T), 21:9721
interactions π^- + p at 2.15 to 6.0 GeV/c, spark chamber study of cross sections for backward π^- and π^+ production in, (E), 25:12111
interactions π^+ + p at 2.18 GeV/c, duality in backward elastic, (T), 25:22836
interactions π^+ + p at 2.18 to 5.0 GeV/c, differential cross sections for backward elastic, (E), 23:36845
interactions π^- + p at 2.26 GeV/c, cross sections for elastic, (E), 22:50302
interactions π^+ + p at 2.3 and 6 GeV/c, spark chamber and counter study of differential cross sections for elastic, (E), 21:37705
interactions π^- + p at 2.3 and 6 GeV/c, spark chamber and counter study of differential cross sections for elastic, (E), 21:37705
interactions π^+ + p at 2.3 to 4.0 GeV/c, spark chamber study of backward elastic, 21:35264 (COO-1112-107)
interactions π^+ + p at 2.3 to 4.0 GeV/c, spark chamber study of N* production from, (E), 22:3279
interactions π^+ + p at 2.3 to 6.0 GeV/c in diffraction peak region, comparison with π^- + p interactions, (E), 21:35271
interactions π^- + p at 2.3 to 6.0 GeV/c in diffraction peak region, comparison with π^+ + p interactions, (E), 21:35271
interactions π^+ + p at 2.34 GeV/c in bubble chamber, cross sections for elastic, (E), 22:50293 (JINR-P1-4003)
interactions π^+ + p at 2.34 GeV/c in bubble chamber, π and N^{*++} interference in, (E), 22:1388
interactions π^+ + p at 2.34 GeV/c in hydrogen bubble chamber, production and interference of rho$^+$ and N^{*++} in, (E), 22:24553
interactions π^+ + p at 2.34 GeV/c, production cross sections for rho$^+$, Δ(1236), and N(1688) in two-prong, (E), 24:28493
interactions π^+ + p at 2.35 and 2.90 GeV/c, cross sections for elastic, (E), 21:18924
interactions π^- + p at 2.36 GeV/c in bubble chamber, cross sections and production and decay mechanisms for Δ(1236) isobars in, (E), 24:20082
interactions π^- + p at 2.38 to 3.00 GeV/c, differential cross sections for backward elastic, (E), 24:40277
interactions π^+ + p at 2.38 to 5.0 GeV/c, test of duality from resonance and Regge models for, 25:14726
interactions π^+ + p at 2.5 and 2.75 GeV/c, phase-band method for partial-wave analysis of, (T), 24:42964 (RLO-2041-37)
interactions π^- + p at 2.5 GeV/c in hydrogen bubble chamber, strange particle production in, (E), 22:29639
interactions π^- + p at 2.5 to 25 GeV, limiting distribution, scaling behavior, and average multiplicities for π^- and π^+ production in, (T), 25:14719
interactions π^+ + p at 2.5 to 3.75 GeV, polarization in backward-angle elastic, (E), 24:47387
interactions π^+ + p at 2.5 to 5 GeV, cross sections and polarization in elastic, (E/T), 23:44601
interactions π^- + p at 2.5 to 5 GeV, cross sections and polarization in elastic, 23:44601
interactions π^+ + p at 2.5 to 6.0 GeV/c, secondary maximum in elastic and charge-exchange, (E), 21:35270
interactions π^- + p at 2.5 to 6.0 GeV/c, secondary maximum in elastic and charge-exchange, (E), 21:35270
interactions π^- + p at 2.5 to 6.0 GeV/c, spark chamber study of backward elastic, 21:35264 (COO-1112-107)
interactions π^- + p at 2.5 to 6.0 GeV/c, spark chamber study of N* production from, (E), 22:3279
interactions π^+ + p at 2.50 and 2.75 GeV/c, phase-band analysis of, (T), 24:49507
interactions π^+ + p at 2.50 GeV/c, polarization at definite angle for determination of, 25:30888
interactions π^- + p at 2.51, 2.76, and 3.01 GeV/c, differential cross sections for elastic, (E), 23:44606
interactions π^- + p at 2.7 BeV/c, cross sections for four-prong, (E), 21:882
interactions π^- + p at 2.7 GeV/c, rho^0, rho$^-$, and N* (1238) production in, (E), 21:15269
interactions π^+ + p at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions π^- + p at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions π^- + p at 2.75 GeV/c, K$^*\Lambda$, K$^*\Sigma$, K$\pi\pi$, and $\Lambda\pi\pi$ production in, (E), 21:15271
interactions π^+ + p at 2.75 GeV/c, one-particle exchange model for cross sections of inelastic, 22:9610
interactions π^- + p at 2.75 GeV/c, one-particle exchange model for cross sections of inelastic, 22:9610
interactions π^+ + p at 2.75 to 5.15 GeV/c, Regge model for polarizations in elastic, (E/T), 24:24250
interactions π^- + p at 2.75 to 5.15 GeV/c, Regge model for polarizations in elastic, (E/T), 24:24250
interactions π^+ + p at 2.77 GeV/c, resonance production in two-prong, (E), 22:50290
interactions π^+ + p at 2.85 and 3.30 GeV/c, spark chamber study of differential cross sections for backward elastic, (E), 21:44285
interactions π^- + p at 2.85 and 3.55 GeV/c, differential cross sections for backward, (E), 23:8746
interactions π^+ + p at 2.85 to 3.55 GeV/c, differential cross sections for backward elastic, (E), 23:23363
interactions π^+ + p at 2.85, 3.30, and 3.55 GeV/c, differential cross sections for backward, (E), 23:8746
interactions π^+ + p at 2.95 to 4.08 GeV/c in hydrogen bubble chamber, Δ(2850) and double resonance production in four-prong, (E), 23:30717
interactions π^- + p at 20 GeV in bubble chamber, cross sections for, (E), 24:15494
interactions π^- + p at 20 GeV/c in hydrogen bubble chamber, four momentum transfer distribution for inelastic, 21:42269
interactions π^- + p at 20 GeV/c in hydrogen bubble chamber, cross sections for anti Λ production in, (E), 25:25314
interactions π^- + p at 20 to 65 GeV/c, energy dependence of total cross sections for, (E), 25:56433
interactions π^- + p at 20 to 65 GeV/c, Regge pole fit to total cross sections for, (E/T), 24:40402
interactions π^- + p at 20 to 65 GeV/c, total cross sections for, (E), 24:5258
interactions π^- + p at 20 to 65 GeV/c, total cross sections for, (E), 25:5295
interactions π^- + p at 20 to 65 GeV/c, total cross sections for, (E), 25:45666 (IFVE-SEF-69-87)
interactions π^- + p at 229 and 318 MeV, phase shift analysis for, 22:3287
interactions π^- + p at 229 to 390 MeV, polarization parameter in elastic, (E), 22:22319
interactions π^- + p at 229 to 390 MeV, scintillation counter study of polarization in, (E), 22:3287
interactions π^- + p at 24.8 GeV/c in bubble chamber, factorization in inclusive processes from single-particle momentum distributions of π produced in, (E), 25:43554 (UR-875-340)
interactions π^- + p at 24.8 GeV/c, π^+ and π^- momentum distributions in, (E), 25:38670
interactions π^- + p at 25 GeV/c in hydrogen bubble chamber, systematic behavior in multiple π production from, (E), 22:9513
interactions π^- + p at 25 GeV/c in hydrogen bubble chamber, preliminary results for cross sections of multiprong, (E), 22:39279 (CERN-68-7(Vol.2), pp 244-61)
interactions π^- + p at 25 GeV/c, cross sections for strange-particle production in, (E), 24:51968
interactions π^- + p at 25 GeV/c, longitudinal distribution of multiple π production in, (E), 25:33559
interactions π^- + p at 25 GeV/c, models for neutral and charged π multiplicities in, (E/T), 24:51967
interactions π^- + p at 25 GeV/c, multiparticle production in, (E), 25:5280 (CONF-700314-, Paper 10)
interactions π^- + p at 3 GeV/c in hydrogen bubble chamber, production of strangeness-zero resonances in, (E), 21:27310
interactions π^+ + p at 3 GeV/c, absorptive optical model for scattering at all angles in, (T), 24:40393
interactions π^- + p at 3 GeV/c, counter—spark chamber determination of branching ratios for lepton-pair decay of vector mesons from, (E), 21:25220
interactions π^- + p at 3 to 12 BeV/c, resonance mesons mass spectrum from, 21:886
interactions π^+ + p at 3 to 4 GeV/c, evidence for existence of H meson from analysis of, 22:46423 (UCRL-18271)
interactions π^- + p at 3 to 8 GeV/c, Δ-trajectory exchange in Regge pole model for studying, 23:8744
interactions π^- + p at 3.0 to 4.65 GeV/c in heavy-liquid bubble chamber, Y*(1680) production in, (E/T), 21:33610 (JINR-P1-3351)
interactions π^+ + p at 3.0 to 5.0 GeV/c, differential cross sections for elastic, (E), 24:42885
interactions π^- + p at 3.0 to 5.0 GeV/c, differential cross sections for elastic, (E), 24:42885
interactions π^+ + p at 3.2 and 3.5 GeV/c, baryon and meson resonance production in, (E), 21:2371 (CEA-R-2948)
interactions π^- + p at 3.2 and 4.2 BeV/c, A$_2$(1310) decay properties from, (E), 21:9712
interactions π^- + p at 3.2 and 4.2 GeV/c in hydrogen bubble chamber, multipion final states from, (E), 22:3276
interactions π^- + p at 3.2 and 4.2 GeV/c, cross sections for multipion final states from, (E), 22:15690
interactions π^+ + p at 3.2 BeV/c, kappa (730) production in, (E), 21:884
interactions π^- + p at 3.25 GeV/c in hydrogen bubble chamber, rho$^-$ and rho^0 peripheral production cross sections and cross sections for two-prong, (E), 25:59314
interactions π^- + p at 3.30 and 3.55 GeV/c, differential cross sections for backward elastic, (E), 23:23363
interactions π^- + p at 3.30 GeV/c, spark chamber study of differential cross section for backward elastic, (E), 21:44285
interactions π^- + p at 3.48 and 6.13 GeV/c in hydrogen magnetic cloud chamber, real part of amplitude for elastic, 21:27305 (JINR-E1-3267)
interactions π^- + p at 3.48 and 6.13 GeV/c, real part of nuclear amplitude of elastic, (E/T), 22:7445
interactions π^+ + p at 3.5 and 5.0 GeV/c, generalization of pomeron + resonance approach to wide-angle elastic, (E/T), 25:50142
interactions π^+ + p at 3.5 GeV/c, use of television measuring projector for ionization measurements in bubble chambers for analysis of, 23:33511 (ANL-7515, pp 353-61)
interactions π^- + p at 3.55 GeV/c, angular distribution for backward elastic, (E), 21:5358
interactions π^+ + p at 3.55 GeV/c, angular distribution for backward elastic, (E), 21:5358
interactions π^+ + p at 3.56 to 3.82 GeV/c in hydrogen bubble chamber, strange particle production cross sections in, (E), 24:51961 (UCRL-19845)
interactions π^+ + p at 3.56 to 3.82 GeV/c, cross sections for strange particle production in, (E), 25:45674
interactions π^+ + p at 3.6 GeV/c in hydrogen bubble chamber, differential cross sections for elastic, (E), 25:59292
interactions π^+ + p at 3.7 GeV/c, mass spectra of A$_2$ from, (E), 25:36411
interactions π^- + p at 3.76 to 5.9 GeV/c, charge-exchange, 23:39601(R) (COO-1749-11)
interactions π^- + p at 3.9 GeV, resonance production from, (E), 21:13680(R) (UH-511-11)
interactions π^+ + p at 3.9 GeV/c, analysis of two-charged-particle final states in, (E), 25:33560
interactions π^- + p at 300 MeV, recoil proton polarization from elastic, (E), 23:44603
interactions π^+ + p at 4 and 8 GeV/c, absorption model for, 22:37149
interactions π^- + p at 4 and 8 GeV/c, meson (π) structure from backward, (T), 21:5392
interactions π^+ + p at 4 and 8 GeV/c, meson (π) structure from backward, (T), 21:5392
interactions π^- + p at 4 BeV/c, cross sections for eta, ω, and rho production in, (E), 21:876 (JINR-P-2885)
interactions π^+ + p at 4 GeV/c, composite structure of π from backward peak in, (T), 21:13710
interactions π^- + p at 4 GeV/c, composite structure of π from backward peak in, (T), 21:13710
interactions π^- + p at 4 GeV/c, $I = 0$, $\pi^-\pi^+$(1060) resonance production in, (E), 23:3652
interactions π^- + p at 4 GeV/c, phenomenological quasi-two-body model for strange particle product in, (T), 25:30869 (JINR-P1-5706)
interactions π^- + p at 4 GeV/c, thermodynamical description of momentum distributions of π produced in, (T), 25:43639 (JINR-P1-5849)
interactions π^+ + p at 4 to 10 GeV/c, nucleon structure determination from, (E), 21:23314 (BNL-994, pp 70-102)
interactions π^- + p at 4 to 10 GeV/c, nucleon structure determination from, (E), 21:23314 (BNL-994, pp 70-102)
interactions π^+ + p at 4 to 10 GeV/c, scintillation counter and spark chamber study of differential cross sections for, (E), 22:3283
interactions π^- + p at 4 to 10 GeV/c, scintillation counter and spark chamber study of differential cross sections for, (E), 22:3283
interactions π^- + p at 4, 8, and 12 GeV/c, differential cross sections for elastic, (E), 21:9719
interactions π^+ + p at 4, 8, and 12 GeV/c, differential cross sections for elastic, (E), 21:9719
interactions π^- + p at 4.0 GeV/c, correlations between longitudinal and transverse momentum components for π, K, N, and Λ produced in, (E), 25:7562
interactions π^- + p at 4.0 GeV/c, Λ eta^0 (1680) resonance production in, (E), 21:17048
interactions π^- + p at 4.0 GeV/c, use of gamma spectrometers and spark chambers for investigating neutral vector meson decay from, 21:21227
interactions π^- + p at 4.0 to 6.0 GeV, Cherenkov hodoscope study of total cross sections of, (E), 25:14561 (JINR-P1-5460)
interactions π^- + p at 4.0 to 7.0 GeV/c, differential cross sections for, (E), 21:18907 (JINR-P13-3132)
interactions π^- + p at 4.1 and 5.1 GeV/c, resonance structure in ΛK mass spectrum from, (E), 24:28491
interactions π^- + p at 4.158 GeV/c in hydrogen bubble chamber, cross sections for six-prong, (E), 23:23378
interactions π^- + p at 4.16 GeV, s-wave $\pi\pi$ elastic scattering phase shifts from, (T), 22:5578
interactions π^- + p at 4.16 GeV/c in hydrogen bubble chamber, analysis of two-prong, (E), 22:11590
interactions π^- + p at 4.33 GeV in bubble chamber, differential cross sections for, (E), 25:53023 (IAE-1975)

interactions π^- + p at 4.65 GeV/c in hydrogen bubble chamber, study of nuclear forces from resonance production in multipion production in, (E), 22:29638
interactions π^- + p at 4.7 GeV/c, filmless wire spark chamber study of cross sections for, (E), 22:13665
interactions π^- + p at 4.7 GeV/c, magnetostrictive spark chamber for measuring meson (π^-) momentum distribution of, 22:47378
interactions π^- + p at 400 to 1500 MeV, review of T = 1/2 amplitudes of, (E), 23:16932
interactions π^+ + p at 400 to 1500 MeV, review of T = 1/2 amplitudes of, 23:16932
interactions π^- + p at 400 to 700 MeV, coupling of D_{13} πN state to S_{11} $\pi\Delta$ and S_{11} rho N states in, (T), 23:8811
interactions π^+ + p at 5 GeV/c in urbaryon rearrangement model, dip-bump structure of cross sections for, (T), 25:12219
interactions π^- + p at 5 GeV/c in urbaryon rearrangement model, dip-bump structure of cross sections for, (T), 25:12219
interactions π^+ + p at 5 GeV/c, computer program for track matching in bubble chambers for, 21:10652
interactions π^+ + p at 5 GeV/c, isospin and longitudinal phase space analysis of, (T), 25:30881
interactions π^+ + p at 5 GeV/c, longitudinal phase-space analysis of, 25:14578
interactions π^- + p at 5 GeV/c, methods for taking account of Coulomb scattering and bremsstrahlung in bubble chamber tracks of, 21:8577 (JINR-P10-3021)
interactions π^+ + p at 5 GeV/c, s-channel model for elastic, (E/T), 25:47860 (COO-2009-26)
interactions π^- + p at 5 GeV/c, s-channel model for elastic and charge-exchange, (E/T), 25:47860 (COO-2009-26)
interactions π^+ + p at 5 GeV/c, test of thermodynamic model in momentum distributions of secondary π produced in, (E), 25:30746
interactions π^- + p at 5 to 10 GeV, production of neutral boron in, (E), 22:37628 (ISS-68/1)
interactions π^- + p at 5.0 and 7.5 GeV/c, 4π enhancements in, (E), 22:48226 (COO-1195-134)
interactions π^- + p at 5.0 GeV/c in bubble chamber, A_{1-3} and A_2 production in, (E), 22:41734 (COO-1428-71)
interactions π^- + p at 5.1 GeV, production of $\Lambda\gamma(1350)$ enhancement in, (E), 23:14978
interactions π^- + p at 5.1 GeV/c in propane bubble chamber, cross sections for, (E), 24:24256
interactions π^- + p at 5.1 GeV/c in propane bubble chamber, cross section for Ξ^- production in, (E), 24:28490
interactions π^- + p at 5.1 GeV/c, production of $\Lambda\gamma(1350)$ enhancement in, (E), 23:7087 (KFKI-22/1968)
interactions π^- + p at 5.1 GeV/c, review of cross section for neutral strange particle production in, (E), 24:51945
interactions π^+ + p at 5.15 GeV/c, polarization in, (E), 23:1603
interactions π^- + p at 5.15 GeV/c, polarization in, (E), 23:1603
interactions π^+ + p at 5.2 and 6.9 GeV/c, angular distributions for backward, (E), 23:8757
interactions π^+ + p at 5.2 and 7.0 GeV/c, differential cross sections for backward elastic, (E), 25:14579
interactions π^- + p at 5.5 GeV/c in hydrogen bubble chamber, multiple π production in, (E), 22:3260
interactions π^- + p at 5.5 GeV/c in hydrogen bubble chamber, associated production in, (E), 22:39292
interactions π^- + p at 5.5 GeV/c, multiple π production in, (E), 21:2387
interactions π^+ + p at 5.5 GeV/c, production of $\Delta(1236)$, $\Sigma(1385)$, and $K^*(890)$ in, (E), 25:3279
interactions π^- + p at 5.9 and 9.9 GeV/c, Δ/sub delta/ Regge trajectory from backward, (T), 22:41817
interactions π^+ + p at 5.9 to 13.7 GeV/c, N/sub α/ and Δ/sub delta/ Regge trajectories from backward, (T), 22:41817
interactions π^- + p at 5.9 to 16.3 GeV/c, scintillation counter and spark chamber study of backward peaks in elastic, 21:37702
interactions π^+ + p at 5.9 to 17 GeV/c, angular distribution of backward elastic, (E), 22:41744
interactions π^- + p at 5.9 to 17 GeV/c, angular distributions of backward elastic, (E), 22:41744
interactions π^+ + p at 5.9 to 17.1 GeV/c, scintillation counter and spark chamber study of backward peaks in elastic, 21:37702
interactions π^- + p at 5.95 GeV/c, resonance production and partial cross sections, angular distributions, and effective-mass distributions for final states in, (E), 23:1599
interactions π^+ + p at 50 to 150 GeV/c, proposed experiment for diffractive production of boson resonances in, 24:51959 (TID-25473(Vol.4), pp 281-9)
interactions π^- + p at 50 to 150 GeV/c, proposed experiment for diffractive production of boson resonances in, 24:51959 (TID-25473(Vol.4), pp 281-9)
interactions π^- + p at 550 and 650 MeV, proton polarization from elastic, (E), 22:29631
interactions π^- + p at 6 and 8 GeV/c, differential cross sections for elastic, (E), 22:41746
interactions π^- + p at 6 BeV, Regge-pole analysis of charge-exchange polarization in, (E), 21:926
interactions π^- + p at 6 GeV/c in hydrogen bubble chamber, cross sections for six-prong, (E), 23:42567
interactions π^+ + p at 6 GeV/c, polarization in backward elastic, (E), 25:30740
interactions π^- + p at 6 GeV/c, production of $A_2(1269)$ and $A_2(1315)$ in, (E), 22:48223 (BNL-12769)
interactions π^- + p at 6 GeV/c, resonance peaks in A_2 region from, (E), 22:32071
interactions π^- + p at 6 GeV/c, resonance production in, (E), 23:1605
interactions π^- + p at 6 GeV/c, S^* production and properties from, (E), 21:23314 (BNL-994, pp 70-102)
interactions π^- + p at 6 to 10 GeV/c, polarization of charge exchange and forward elastic, (T), 21:17114
interactions π^- + p at 6 to 10 GeV/c, three-Regge-pole model for polarization in, 21:15341
interactions π^+ + p at 6 to 10 GeV/c, three-Regge-pole model for polarization in, 21:15341
interactions π^+ + p at 6 to 12 GeV/c, Regge pole model for, (T), 21:31593
interactions π^- + p at 6 to 12 GeV/c, Regge pole model for, (T), 21:31593
interactions π^+ + p at 6 to 17 GeV/c, angular distributions and cross sections for elastic, (E), 23:36852
interactions π^- + p at 6 to 17 GeV/c, angular distributions and cross sections for elastic, (E), 23:36852
interactions π^- + p at 6 to 25 GeV/c, shadow scattering and Regge singularities in phenomenological analysis of, 21:23337
interactions π^+ + p at 6 to 25 GeV/c, shadow scattering and Regge singularities in phenomenological analysis of, 21:23337
interactions π^- + p at 6.0 GeV/c in hydrogen bubble chamber, KantiK pair final states from, (E), 23:42568
interactions π^+ + p at 6.0 to 12.0 GeV/c, polarization parameter for elastic, (E), 21:9711
interactions π^- + p at 6.0 to 12.0 GeV/c, polarization parameter for elastic, (E), 21:9711
interactions π^- + p at 6.7 GeV/c in hydrogen bubble chamber, resonance production, partial cross sections, and meson (K) and strangness-1 hyperon production cross sections for, (E), 24:10688
interactions π^- + p at 6.7 GeV/c, production of N(1520), N(1688), and Δ(1236) in, (E), 24:26380
interactions π^- + p at 6.7 GeV/c, spin—parity analysis for A(1300) and A(1200) production in, (E), 22:39286
interactions π^+ + p at 6.8 to 12.8 GeV/c, unitarity upper bound on absorptive parts of amplitudes for elastic, 24:10852
interactions π^- + p at 60 GeV/c, multiplicity distributions of secondaries from, (E), 23:49057
interactions π^- + p at 650 MeV, elastic, (E), 21:4000
interactions π^- + p at 670 and 805 MeV/c, eta and eta'(960) production in, (E), 21:879 (NEVIS-155)
interactions π^- + p at 7 and 25 GeV/c in bubble chamber, difference in energy dependence for A_2^- and A_2^0 production in, (E), 25:3289
interactions π^+ + p at 7 GeV/c, longitudinal momentum distributions of π^- from production in, (E), 25:50075
interactions π^- + p at 7 GeV/c, method for calculating probability density of transverse momentum in inelastic, (E), 21:9708 (JINR-P10-3032)
interactions π^- + p at 7 GeV/c, momentum spectra of secondary particles produced in, (E), 23:5545
interactions π^+ + p at 7 GeV/c, π^- momentum distributions in inclusive, (E), 25:38670
interactions π^- + p at 7 GeV/c, resonance production and cross sections in six-pronged, 23:49055
interactions π^- + p at 7 GeV/c, resonance production in strange-particle final states in, (E), 25:12110
interactions π^- + p at 7 GeV/c, strange particle production in, (E), 23:5546
interactions π^- + p at 7 GeV/c, transverse momentum distribution of mesons (π) produced in, (E), 23:5538
interactions π^+ + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions π^- + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions π^+ + p at 7.0 GeV/c in bubble chamber, factorization in inclusive processes from single-particle momentum distributions of π produced in, (E), 25:43554 (UR-875-340)
interactions π^- + p at 7.0 GeV/c in bubble chamber, total cross sections for 6-prong, (E), 24:45432
interactions π^- + p at 7.0 GeV/c in hydrogen bubble chamber, π and p transverse and longitudinal momentum spectra from two- and six-prong, (E), 23:27757
interactions π^- + p at 7.0 GeV/c, differential cross sections for backward elastic, (E), 25:14579
interactions π^- + p at 7.0 GeV/c, transverse-momentum and angular distributions in six-prong, (E), 22:52942
interactions π^- + p at 7.0 to 13.0 GeV/c, unitarity upper bound on absorptive parts of amplitudes for elastic, 24:10852
interactions π^- + p at 7.5 GeV, use of images of velocity space to study kinematics of, (E), 23:7089
interactions π^- + p at 7.7 GeV/c, spark chamber momentum spectrometer for studying, 23:7796
interactions π^- + p at 7.91 GeV/c, cross sections for strange-particle production in, (E), 21:9714
interactions π^- + p at 70 to 290 MeV, Δ resonance parameters from total cross sections for, (E), 25:19916
interactions π^+ + p at 70 to 290 MeV, Δ resonance parameters from total cross sections for, (E), 25:19916
interactions π^+ + p at 750 to 3750 MeV/c, scintillation counter study of polarization parameter from elastic, (E), 21:42264 (UCRL-17683)
interactions π^+ + p at 750 to 3750 MeV/c, scintillation counter study of polarization parameter in elastic, (E), 22:52943
interactions π^+ + p at 765 to 1025 MeV, proton polarization from elastic, (E), 22:29631
interactions π^- + p at 790, 830, and 870 MeV, cross sections for π^0 and π^+ production in, (E), 21:881
interactions π^+ + p at 8 and 10 GeV/c, mass dependence of small-angle differential cross section in multi-Regge model for, 23:39727
interactions π^- + p at 8 and 16 GeV/c, differential cross sections for elastic, (E/T), 22:34859
interactions π^- + p at 8 GeV and large momentum transfer, model for elastic, (T), 23:27808
interactions π^+ + p at 8 GeV, distinction between peripheral and central, (T), 23:23474
interactions π^- + p at 8 GeV, formulas for large momentum transfer in, 22:7514
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, six-prong, 21:21139 (INR-761/VI/PH)
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, angular correlations between mesons (π) in 10-prong, (E), 22:29625 (INR-876/VI/PH)
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, correlation between transverse and longitudinal momenta of π, K, p, and Λ secondaries in, (E), 24:45443
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, ω^0, rho, and N(3695) production, π angular correlations, and dominance of central statistical interactions in 8- and 10-prong, (E), 25:17401
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, K—anti K pair and resonance production in four-prong, <E), 25:22704
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, angular distributions for Λ, K, and π production and Σ(1385), K(890), and rho production in four-prong, (E), 25:22705
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, mass distributions and cross sections for resonance production and momentum and angular distributions for, (E), 25:56427 (IFA-HE-73)
interactions π^+ + p at 8 GeV/c in hydrogen bubble chamber, cross sections, kinematical behavior of secondaries, and K—anti K pairs and resonance production in four-prong, (E), 25:56428 (IFA-HE-75)
interactions π^+ + p at 8 GeV/c in multiperipheral model, comparison of π^- + p and K^- + p interactions with, (T), 24:52103
interactions π^+ + p at 8 GeV/c, density matrix elements and spin population resonance parameters in, (E/T), 25:9678
interactions π^+ + p at 8 GeV/c, distinction between peripheral and central many-body, (T), 22:37146 (INR-P-889/VI/PH)
interactions π^+ + p at 8 GeV/c, inelastic partial cross sections for, (T), 22:3409 (INP-555/PL/PH, pp 101-12)
interactions π^+ + p at 8 GeV/c, mass dependence of differential cross sections for, (E), 22:44338
interactions π^+ + p at 8 GeV/c, model of high multiplicity, (E/T), 22:3407 (INP-555/PL/PH, pp 65-73)
interactions π^+ + p at 8 GeV/c, multiparticle production in, (E/T), 24:21981
interactions π^+ + p at 8 GeV/c, $N^*(3690)$ production in, (E), 21:11742
interactions π^+ + p at 8 GeV/c, overlap function and shadow elastic scattering from inelastic, (T), 22:24662
interactions π^+ + p at 8 GeV/c, ω^0, $N^{*++}(1238)$, and rho^0 production from, (E), 21:18923
interactions π^+ + p at 8 GeV/c, production of (anti pp), (K^+K^-), and ($\pi^+\pi^-$) pairs in, (E), 25:5297
interactions π^+ + p at 8 GeV/c, π angular correlations from six- and eight-prong, (E), 21:18915
interactions π^+ + p at 8 GeV/c, π angular correlations in 10-prong, (E), 22:48236
interactions π^+ + p at 8 GeV/c, resonance production in, (E), 22:24552
interactions π^+ + p at 8 GeV/c, spin analysis of g-meson from, 25:59298
interactions π^+ + p at 8 GeV/c, structure in differential cross section distributions of inelastic two-body reactions in, (E), 23:8747
interactions π^+ + p at 8 GeV/c, Van Hove overlap function and shadow elastic scattering from inelastic, (T), 22:5573 (INR-825/VI/PH)
interactions π^+ + p at 8 GeV/c, Van Hove phase-space plots for analysis of single-particle production in, 25:30890
interactions π^- + p at 8 GeV/c, Van Hove phase-space plots for analysis of single-particle production in, 25:30890
interactions π^+ + p at 8 to 18 GeV, complex Gaussian potential for analysis of elastic, 23:10819
interactions π^- + p at 8 to 18 GeV, complex Gaussian potential for analysis of elastic, 23:10819
interactions π^+ + p at 8 to 20 GeV/c, spectrometer study of dispersion relations for forward, 21:33700
interactions π^+ + p at 8 to 20 GeV/c, test of forward dispersion relations from cross sections for, (E), 23:36851
interactions π^+ + p at 8 to 22 GeV/c, counter—hodoscope system study of total cross sections for, 21:37708
interactions π^- + p at 8 to 26 GeV/c, spectrometer study of dispersion relations for forward, 21:33700
interactions π^- + p at 8 to 26 GeV/c, test of forward dispersion relations from cross sections for, (E), 23:36851
interactions π^- + p at 8 to 29 GeV/c, counter—hodoscope system study of total cross sections for, 21:37708
interactions π^+ + p at 8.04 GeV/c in hydrogen bubble chamber, cross sections for strange particle production in, (E), 24:45444
interactions π^+ + p at 8.04 GeV/c in hydrogen bubble chamber, Peyrou distributions for strange particle production in four-prong, (E), 25:22692
interactions π^- + p at 8.09 GeV/c in hydrogen bubble chamber, enhancement in dipion mass distributions for, 21:18912
interactions π^+ + p at 8.5 GeV/c in hydrogen bubble chamber, cross sections for strange particle and resonance production in, (E), 25:22702
interactions π^+ + p at 8.5 GeV/c, particle momentum distributions for two-, four-, six-, and eight-prong, (E), 25:59317
interactions π^+ + p at 850 MeV/c in bubble chamber, cross sections for elastic and inelastic, (E), 22:24551
interactions π^- + p at 875 to 1579 MeV/c on polarized target, resonance production in, (E), 22:20146
interactions π^- + p at 875 to 1850 MeV/c, N(1688) and Δ(1920) production from, (E), 22:13661

interactions $\pi^+ + p$ at 875 to 1850 MeV/c, N(1688) and Δ(1920) production from, (E), 22:13661
interactions $\pi^+ + p$ at 895 to 1040 MeV/c, differential cross sections for elastic, (E), 24:49341
interactions $\pi^- + p$ at 9.8 and 13.6 GeV/c, angular distributions for, (E), 23:3647
interactions $\pi^+ + p$ at fixed angle, exponential decrease of differential cross sections for elastic, 21:29547
interactions $\pi^- + p$ at fixed angle, exponential decrease of differential cross sections for elastic, 21:29547
interactions $\pi^+ + p$ at high energies from $\pi^- + p$ and $\pi^- + d$ interactions, total cross sections for, (E/T), 24:42883
interactions $\pi^- + p$ at high energies in Regge pole theory, coupling zeroes in analysis of, 22:3418
interactions $\pi^+ + p$ at high energies in Regge pole theory, coupling zeroes in analysis of, 22:3418
interactions $\pi^- + p$ at high energies, absorptive Regge cut model for elastic and charge-exchange, 24:1593
interactions $\pi^+ + p$ at high energies, acausal dispersion relations for forward elastic, 23:39735
interactions $\pi^- + p$ at high energies, acausal dispersion relations for forward elastic, 23:39735
interactions $\pi^- + p$ at high energies, charge-exchange and quasi-elastic, (T), 21:13699
interactions $\pi^- + p$ at high energies, differential cross sections and polarization predictions for elastic, 23:3750
interactions $\pi^+ + p$ at high energies, differential cross sections and polarization predictions for elastic, 23:3750
interactions $\pi^- + p$ at high energies, dip structure in Regge pole model for, 23:32752
interactions $\pi^+ + p$ at high energies, dip structure in Regge pole model for, 23:32752
interactions $\pi^- + p$ at high energies, dispersion relations and asymptotic predictions for forward amplitudes of, (E), 21:25234 (BNL-11175)
interactions $\pi^+ + p$ at high energies, dispersion relations and asymptotic predictions for forward amplitudes of, (E), 21:25234 (BNL-11175)
interactions $\pi^- + p$ at high energies, effective Regge trajectories for two-body production in, (T), 25:5377
interactions $\pi^+ + p$ at high energies, effective Regge trajectories for two-body production in, (T), 25:5377
interactions $\pi^- + p$ at high energies, factorizability quark model for vector meson production in, (T), 24:30523 (ITF-70-23)
interactions $\pi^+ + p$ at high energies, factorizability quark model for vector meson production in, (T), 24:30523 (ITF-70-23)
interactions $\pi^+ + p$ at high energies, form factors in model for amplitude of inelastic, (T), 25:14729 (INR-P-1229)
interactions $\pi^- + p$ at high energies, helicity amplitudes and polarization in elastic, 23:21131
interactions $\pi^+ + p$ at high energies, hybrid model in Regge pole theory for, 23:10829
interactions $\pi^+ + p$ at high energies, intermediate-energy region in dispersion sum rules for nucleon spin rotation in Regge pole theory for, 24:30525
interactions $\pi^+ + p$ at high energies, intermediate-energy region contribution in dispersion sum rules for polarization rotation in Regge pole model for, 24:33017 (IFVE-STF-69-43)
interactions $\pi^- + p$ at high energies, intermediate-energy region in dispersion sum rules for nucleon spin rotation in Regge pole theory for, 24:30525
interactions $\pi^- + p$ at high energies, intermediate-energy region contribution in dispersion sum rules for polarization rotation in Regge pole model for, 24:33017 (IFVE-STF-69-43)
interactions $\pi^- + p$ at high energies, model for inelastic, 21:23340
interactions $\pi^- + p$ at high energies, multiple particle production in, 21:7502
interactions $\pi^+ + p$ at high energies, multiple particle production in, 21:7502
interactions $\pi^+ + p$ at high energies, multiple scattering mechanism in quark model for analysis of, 24:8644
interactions $\pi^- + p$ at high energies, multiple scattering mechanism in quark model for analysis of, 24:8644
interactions $\pi^+ + p$ at high energies, negative P' pole parameters and vanishing total cross sections for, (E/T), 24:45539
interactions $\pi^- + p$ at high energies, negative P' pole parameters and vanishing total cross sections for, (E/T), 24:45539
interactions $\pi^- + p$ at high energies, optical model for backward peaks in, 24:24371
interactions $\pi^+ + p$ at high energies, overlap function for inelastic, (T), 24:13028 (INP-682, pp 91-137)
interactions $\pi^+ + p$ at high energies, phase shifts for elastic, (E/T), 21:2455
interactions $\pi^- + p$ at high energies, phase shifts for elastic, (E/T), 21:2455
interactions $\pi^+ + p$ at high energies, possible branching effect in p and p' poles in, 22:44437
interactions $\pi^- + p$ at high energies, possible branching effect in p and p' poles in, 22:44437
interactions $\pi^- + p$ at high energies, quantum electrodynamics for Regge cut in, 23:51987
interactions $\pi^+ + p$ at high energies, quantum electrodynamics for Regge cut in, 23:51987
interactions $\pi^+ + p$ at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions $\pi^- + p$ at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions $\pi^+ + p$ at high energies, quark-droplet model for, (E/T), 21:924
interactions $\pi^+ + p$ at high energies, Regge phenomenology of, 22:46445
interactions $\pi^- + p$ at high energies, Regge phenomenology of, 22:46445
interactions $\pi^- + p$ at high energies, Regge pole fits to charge exchange, differential cross sections, and polarization in, (E/T), 25:12217
interactions $\pi^+ + p$ at high energies, Regge pole model for, 22:3413 (UCRL-17873)
interactions $\pi^- + p$ at high energies, Regge pole model for, 22:3413 (UCRL-17873)
interactions $\pi^- + p$ at high energies, Regge pole theory for polarization in, 23:16965 (CEA-CONF-1240)
interactions $\pi^+ + p$ at high energies, Regge pole theory for polarization in, 23:16965 (CEA-CONF-1240)
interactions $\pi^- + p$ at high energies, Regge trajectory linearity in Veneziano representation for exchange quasipotential for difference of total cross sections of $\pi^+ + p$ interactions and total cross sections of, (T), 25:1527 (JINR-E2-5226)
interactions $\pi^+ + p$ at high energies, Regge trajectory linearity in Veneziano representation for exchange quasipotential for difference of total cross sections of $\pi^- + p$ interactions and total cross sections of, (T), 25:1527 (JINR-E2-5226)
interactions $\pi^- + p$ at high energies, Regge-pole analysis of backward peaks in elastic, 22:20249
interactions $\pi^+ + p$ at high energies, Regge-pole analysis of backward peaks in elastic, 22:20249
interactions $\pi^- + p$ at high energies, Regge-pole exchange analysis for inelastic, 21:4048
interactions $\pi^+ + p$ at high energies, Regge-pole model for backward elastic, 21:15353
interactions $\pi^- + p$ at high energies, Regge-pole model for backward elastic, 21:15353
interactions $\pi^+ + p$ at high energies, relation between zeros of scattering amplitudes and polarization in elastic, 23:34609
interactions $\pi^- + p$ at high energies, relation between zeros of scattering amplitudes and polarization in elastic, 23:34609
interactions $\pi^- + p$ at high energies, review of backward, (E/T), 25:53029
interactions $\pi^+ + p$ at high energies, review of backward, (E/T), 25:53029
interactions $\pi^- + p$ at high energies, review of boson resonances in, (E/T), 24:15477 (INP-681, pp 150-70)
interactions $\pi^- + p$ at high energies, review of Regge pole theory for, 24:5310
interactions $\pi^+ + p$ at high energies, rotation of polarization in, 23:21110
interactions $\pi^- + p$ at high energies, rotation of polarization in, 23:21110
interactions $\pi^+ + p$ at high energies, sign of difference of real part of amplitude for elastic, (T), 21:4053
interactions $\pi^- + p$ at high energies, sign of difference of real part of amplitude for elastic, (T), 21:4053
interactions $\pi^+ + p$ at high energies, sum rule for limitation of parametrizations in models for asymptotic behavior of amplitudes of, (T), 25:36511
interactions $\pi^- + p$ at high energies, sum rule for limitation of parametrizations in models for asymptotic behavior of amplitudes of, (T), 25:36511
interactions $\pi^+ + p$ at high energies, sum rule for Regge pole model for total cross sections of, 22:37159
interactions $\pi^- + p$ at high energies, sum rule for Regge pole model for total cross sections for, 22:37159
interactions $\pi^- + p$ at high energies, superconvergence relations in presence of Regge cuts for, 21:17126
interactions $\pi^- + p$ at high energies, total cross sections for, (E/T), 24:42883
interactions $\pi^+ + p$ at high energies, total cross sections and forward scattering amplitude for, (E/T), 24:40402
interactions $\pi^+ + p$ at high energies, total cross sections for, (E), 22:22299
interactions $\pi^- + p$ at high energies, translation of symmetry properties of helicity amplitudes for polarization in neutron and vector meson production in, 23:46656
interactions $\pi^+ + p$ at high energies, vacuum Regge poles and cuts from amplitudes for elastic, 22:46437
interactions $\pi^- + p$ at high energies, vacuum Regge poles and cuts from amplitudes for elastic, 22:46437
interactions $\pi^+ + p$ at infinite momentum, resonance-background interference corrections to finite-energy sum rule estimates of total cross sections for, (T), 25:5378
interactions $\pi^- + p$ at infinite momentum, resonance-background interference corrections to finite-energy sum rule estimates of total cross sections for, (T), 25:5378
interactions $\pi^- + p$ at large momentum transfer, differential cross sections and polarization data for, (E/T), 23:10764
interactions $\pi^+ + p$ at large momentum transfer, differential cross sections and polarization data for, (E/T), 23:10764
interactions $\pi^+ + p$ at low energies, analyticity and Pomeranchuk theorem violation predictions for, (T), 25:20005
interactions $\pi^- + p$ at low energies, analyticity and Pomeranchuk theorem violation predictions for, (T), 25:20005
interactions $\pi^+ + p$ at low energies, crossed elastic versus three-particle unitarity cut as determinants for, (T), 21:2473
interactions $\pi^+ + p$ at low energies, current algebra for, 22:13767
interactions $\pi^- + p$ at low energies, ω and rho production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions $\pi^+ + p$ below 2 GeV, total cross sections for, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^- + p$ below 2 GeV, total cross sections for, (E), 23:25526(T) (ORNL-tr-1926)
interactions $\pi^- + p$ below and above 20 GeV/c, forward dispersion relations and elastic amplitudes for Pomeranchuk theorem, fundamental length, and unitarity crossing symmetry and charge independence for, (T), 24:5308
interactions $\pi^+ + p$ below and above 20 GeV/c, forward dispersion relations and elastic amplitudes for Pomeranchuk theorem, fundamental length, and unitarity crossing symmetry and charge independence for, (T), 24:5308
interactions $\pi^+ + p$ below threshold to 72 GeV, multiplicity distribution of charged secondaries from, 23:32619
interactions $\pi^- + p$ below threshold to 72 GeV, multiplicity distribution of charged secondaries from, 23:32619
interactions $\pi^+ + p$ from $K^+ + p \rightarrow K^{*0}$ (890) $+ \pi^+ + p$ interactions at 7.3 GeV/c, Regge pole exchange analysis of virtual, (E/T), 23:36939
interactions $\pi^+ + p$ from pole extrapolations of $p + p \rightarrow \Delta^{++} + n$ interactions at 6.6 GeV/c, cross sections for elastic, (E), 23:42549
interactions $\pi^+ + p$ in dual resonance theory, exotic inclusive, 25:47888
interactions $\pi^+ + p$ in multi-Regge-exchange model, shadow elastic scattering from, 22:35012
interactions $\pi^- + p$ in nuclear emulsions at 16.2 GeV, cross sections for elastic and inelastic, (E), 23:36829
interactions $\pi^- + p$ in photoemulsions at 50 to 176 MeV, cross sections for double charge-exchange, (E), 21:17053
interactions $\pi^- + p$ in propane—xenon bubble chamber, effect of nuclear background in, 21:17052
interactions $\pi^+ + p$ in $\pi^- + p \rightarrow \Delta^{++}(1236) + 2\pi^-$ interactions at 4.45 GeV/c in hydrogen bubble chamber, angular distributions for virtual, (E), 24:51975
interactions $\pi^+ + p$ in $\pi^- + p \rightarrow p + \pi^+ + 2\pi^-$ interactions at 4.47 GeV/c in hydrogen bubble chamber, virtual, (E), 25:9655 (ITEF-767)
interactions $\pi^- + p$ in quark model in collinear group, cross section relations for elastic and inelastic, 21:40203
interactions $\pi^+ + p$ in quark model in collinear group, cross section relations for elastic and inelastic, 21:40203
interactions $\pi^- + p$ in quark model with spin structure, factorizability hypothesis for differential cross sections of inelastic, 23:42671 (ITF-69-28)
interactions $\pi^+ + p$ in quark model with spin structure, factorizability hypothesis for differential cross sections of inelastic, 23:42671 (ITF-69-28)
interactions $\pi^- + p$ in quark model, cross sections for E(1420) production in, (T), 22:35009
interactions $\pi^- + p$ in quark model, production of neutral vector and pseudoscalar mesons in, (T), 22:35009
interactions $\pi^- + p$ in Wilson chambers, analysis of low-energy tracks from, 21:6289
interactions $\pi^- + p$ near 1 GeV, N and π exchange in peripheral model for momentum and angular distributions for π^+ and π^- production in, (T), 25:5376
interactions $\pi^+ + p$ through 90°, contribution of Δ/sub delta/ Regge trajectory in s-channel for, 22:9590
interactions $\pi^- + p$ to 12 GeV/c, review of data on spin effects in charge-exchange and elastic, 23:23478
interactions $\pi^+ + p$ to 12 GeV/c, review of data on spin effects in elastic, 23:23478
interactions $\pi^- + p$ with charge exchange, sum rules for neutral meson production in, 22:52982
interactions $\pi^+ + p$, absorptive Regge cut model for forward, 25:53196
interactions $\pi^- + p$, absorptive Regge cut model for forward, 25:53196
interactions $\pi^- + p$, asymmetry between forward π^+ and backward π^- in inelastic, 25:38746
interactions $\pi^- + p$, axial-vector current renormalization for, 22:13752 (ITF-67-19)
interactions $\pi^+ + p$, axial-vector current renormalization for, 22:13752 (ITF-67-19)
interactions $\pi^+ + p$, branch points connected with p and p' poles for, (T), 21:42355 (ITEF-487)
interactions $\pi^- + p$, branch points connected with p and p' poles for, (T), 21:42355 (ITEF-487)
interactions $\pi^- + p$, branching ratio for $\omega \rightarrow$ neutrals/$\omega \rightarrow$ total from, (E), 22:39297
interactions $\pi^- + p$, calculation of phase space integrals by Monte Carlo method for Deck effect in, 23:18905
interactions $\pi^- + p$, charged-particle prong distributions in inelastic, (T), 24:40407
interactions $\pi^- + p$, comparison between on- and off-shell inelasticities in, (E/T), 23:5528
interactions $\pi^- + p$, comparison of phase-shift analyses of data on elastic, (E/T), 23:32750
interactions $\pi^+ + p$, compilation of cross section variation with incident momentum for, (E), 25:38659 (CERN-HERA-70-5)
interactions $\pi^- + p$, compilation of cross sections for, 25:30735 (CERN-HERA-70-7)
interactions $\pi^- + p$, Coulomb correction on scattering length in, 23:34607
interactions $\pi^- + p$, CP nonconservation in, 22:20236
interactions $\pi^+ + p$, cross sections for elastic, 22:17871
interactions $\pi^- + p$, cross sections for elastic and charge-exchange, (E), 22:17871
interactions $\pi^+ + p$, cross sections for light- and heavy-quark production in, (T), 21:21231
interactions $\pi^- + p$, cross sections for strange particle production in, (E), 25:25333
interactions $\pi^+ + p$, crossing relations for comparison of anti $p + p \rightarrow \pi^+ + \pi^-$ interactions and backward elastic, 23:46721
interactions $\pi^- + p$, crossing relations for comparison of anti $p + p \rightarrow \pi^+ + \pi^-$ interactions and backward elastic, 23:46721
interactions $\pi^+ + p$, current algebra and PCAC for sum rule for real part of amplitude for, 21:40227
interactions $\pi^- + p$, current algebra and PCAC for sum rule for real part of amplitude for, 21:40227
interactions $\pi^+ + p$, current algebra and Regge pole theory for, 21:29522
interactions $\pi^+ + p$, current algebra and Regge pole theory for, 21:29522
interactions $\pi^+ + p$, current algebra and Regge pole theory for total cross sections for, 21:29521

interactions $\pi^+ + p$, current commutators and mass extrapolations for s- and p-wave amplitudes of, 22:44441

interactions $\pi^+ + p$, current divergence commutator for sigma production from, 21:40224

interactions $\pi^+ + p$, data compilation on real parts of amplitudes of forward, (E), 25:45667 (JINR-E1-5847)

interactions $\pi^- + p$, data compilation on real parts of amplitudes of forward, (E), 25:45667 (JINR-E1-5847)

interactions $\pi^- + p$, design and performance of magnetostrictive spark chamber for studying backward, 23:47826

interactions $\pi^+ + p$, differential cross sections for elastic, (E), 23:10817

interactions $\pi^- + p$, differential cross sections for elastic, (E), 23:10817

interactions $\pi^+ + p$, differential cross sections for production of axial vector mesons in Regge pole model for, (T), 23:5619

interactions $\pi^- + p$, differential cross sections for production of axial vector mesons in Regge pole model for, (T), 23:5619

interactions $\pi^+ + p$, differential cross sections in crossed form for, (T), 24:8665

interactions $\pi^+ + p$, diffraction model for scattering, 24:49967

interactions $\pi^- + p$, dips in differential cross sections for elastic, (E/T), 22:44332

interactions $\pi^+ + p$, dips in differential cross sections for elastic, (E/T), 22:44332

interactions $\pi^- + p$, dispersion analysis for elastic, 21:35298

interactions $\pi^+ + p$, dispersion analysis for elastic, 21:35298

interactions $\pi^+ + p$, dispersion relation calculation of forward amplitude of, 24:1594

interactions $\pi^- + p$, dispersion relation calculation of forward amplitude of, 24:1594

interactions $\pi^+ + p$, dispersion relation calculation of real parts of forward amplitudes of, (T), 25:17479

interactions $\pi^- + p$, dispersion relation calculation of real parts of forward amplitudes of, (T), 25:17479

interactions $\pi^+ + p$, dispersion-relation calculation of real part of amplitude for, 24:37791

interactions $\pi^- + p$, dispersion-relation calculation of real part of amplitude for, 24:37791

interactions $\pi^+ + p$, distinction between rescattering and absorptive corrections to Pomeron in total cross sections and phase of forward amplitude of, 23:51942

interactions $\pi^- + p$, distinction between rescattering and absorptive corrections to Pomeron in total cross sections and phase of forward amplitude of, 23:51942

interactions $\pi^+ + p$, duality for total cross section relations in quark model for, 24:35653 (ITF-70-24)

interactions $\pi^- + p$, duality for total cross section relations in quark model for, 24:35653 (ITF-70-24)

interactions $\pi^+ + p$, eikonal Regge model for elastic, 25:9755

interactions $\pi^- + p$, eikonal Regge model for elastic, 25:9755

interactions $\pi^- + p$, electromagnetic form factor for γNN^* vertices from, (T), 21:2431

interactions $\pi^- + p$, energy dependence of cross sections for inelastic, (E/T), 24:24373

interactions $\pi^+ + p$, energy dependence of cross sections for inelastic, (E/T), 24:24373

interactions $\pi^+ + p$, existence of equal-amplitude points on backward cone, (T), 22:22397

interactions $\pi^- + p$, experimental comparison between on- and off-mass-shell inelasticities in, 25:3285

interactions $\pi^+ + p$, experimental comparison between on- and off-mass-shell inelasticity in, (E/T), 24:24374

interactions $\pi^- + p$, fitted-channel cross section calculations using statistical isospin weights for cross sections of multineutral channels in, 24:3660

interactions $\pi^+ + p$, forward dispersion relations from piecewise analytic amplitude of, (T), 25:38743 (ORO-3992-58)

interactions $\pi^- + p$, forward dispersion relations from piecewise analytic amplitude of, (T), 25:38743 (ORO-3992-58)

interactions $\pi^- + p$, heavy photon production in, (E/T), 21:2424

interactions $\pi^+ + p$, interference of Regge rho exchange in, (T), 21:5393

interactions $\pi^- + p$, J/sup PG/ = 0^{+-} scalar meson production from, (T), 21:23324 (NP-16681)

interactions $\pi^- + p$, j-plane singularities in superconvergent sum rules for, 23:27804

interactions $\pi^+ + p$, j-plane singularities in superconvergent sum rules for, 23:27804

interactions $\pi^+ + p$, kinematics of resonance production in, 23:49161

interactions $\pi^- + p$, mass and width of $K_1^0K_1^0(1062)$ enhancement from, 24:1570

interactions $\pi^- + p$, mass spectra, angular distributions, and cross sections for $g^-(1675)$ and $g^0(1655)$ production in, (E), 22:34858

interactions $\pi^+ + p$, model for elastic, 21:42360

interactions $\pi^+ + p$, model of infinite Regge recurrences for high-momentum transfer in elastic, 22:24650

interactions $\pi^- + p$, model of infinite Regge recurrences for high-momentum transfer inelastic, 22:24650

interactions $\pi^+ + p$, model-independent analysis of forward elastic, 25:30875

interactions $\pi^- + p$, model-independent analysis of forward elastic, 25:30875

interactions $\pi^- + p$, modified Regge representation for backward elastic, 22:3433

interactions $\pi^+ + p$, multiparticle amplitude with Regge trajectories for inelastic, 23:15128

interactions $\pi^+ + p$, multiperipheral model for charged particle production in, 25:50118 (SU-1206-254)

interactions $\pi^- + p$, multiperipheral model for charged particle production in, 25:50118 (SU-1206-254)

interactions $\pi^- + p$, multiperipheral model for cross sections for K and anti K production in, (T), 25:41026

interactions $\pi^- + p$, multiperipheral model for cross sections for hyperon and K production in, (T), 25:41026

interactions $\pi^- + p$, multiple π production in ΣK, ΛK, K^0 anti K^0 and $n\pi^+\pi^-$ channels in, (E/T), 24:35613

interactions $\pi^- + p$, multiple-quark-scattering analysis of charge-exchange, 25:47833

interactions $\pi^+ + p$, new interference model with duality for, (T), 24:42974

interactions $\pi^+ + p$, observation of branch points connected with p and p' poles for elastic, 21:42357

interactions $\pi^- + p$, observation of branch points connected with p and p' poles for elastic, 21:42357

interactions $\pi^- + p$, peripheral SU(6)/sub W/ model for resonance polarization from, 21:40261 (NP-16936)

interactions $\pi^+ + p$, peripheral SU(6)/sub W/ model for resonance polarization from, 21:40261 (NP-16936)

interactions $\pi^+ + p$, polarization in, (E), 23:10817

interactions $\pi^- + p$, polarization of resonances in peripheral SU(6)/sub W/ model for, 22:3491

interactions $\pi^+ + p$, polarization of resonances in peripheral SU(6)/sub W/ model for, 22:3491

interactions $\pi^+ + p$, predictions for $K^+ + N$ interactions from SU(3) symmetry for backward, 22:20142

interactions $\pi^- + p$, predictions for $K^+ + N$ interactions from SU(3) symmetry for backward, 22:20142

interactions $\pi^+ + p$, production of decuplet baryon resonances in broken U(6,6) from, 21:40229

interactions $\pi^- + p$, production of decuplet baryon resonances in broken U(6,6) from, 21:40229

interactions $\pi^- + p$, production of isosinglet scalar meson in, (T), 21:2474

interactions $\pi^+ + p$, proposed experiment for hybrid spectrometer and rapid-cycling neon bubble chamber study of diffraction dissociation in, 24:51958 (TID-25473(Vol.4), pp 275-9)

interactions $\pi^- + p$, proposed experiment for hybrid spectrometer and rapid-cycling neon bubble chamber study of diffraction dissociation in, 24:51958 (TID-25473(Vol.4), pp 275-9)

interactions $\pi^- + p$, quark additive model for sum rules for meson (π) multiple production in, (T), 23:51928

interactions $\pi^+ + p$, quark additive model for sum rules for meson (π) multiple production in, (T), 23:51928

interactions $\pi^+ + p$, quark model for backward, 21:9806

interactions $\pi^- + p$, quark model for backward, 21:9806

interactions $\pi^+ + p$, quark model with factorization hypothesis for inelastic, (E/T), 24:24385

interactions $\pi^- + p$, quark model with factorization hypothesis for inelastic, (E/T), 24:24385

interactions $\pi^- + p$, Regge cut contribution to total cross section for, 21:25305

interactions $\pi^+ + p$, Regge cut corrections to Regge pole exchange for crossover between differential cross sections for $\pi^- + p \rightarrow \pi^+ + p$ interactions and differential cross sections for, 24:18230

interactions $\pi^+ + p$, Regge cuts in quark models for multiple, 23:51959

interactions $\pi^- + p$, Regge cuts in quark models for multiple, 23:51959

interactions $\pi^- + p$, Regge pole fits to differential cross sections and polarization data for charge-exchange, 24:13107

interactions $\pi^+ + p$, Regge pole phenomenology with absorptive corrections for elastic, 24:8660

interactions $\pi^- + p$, Regge pole phenomenology with absorptive corrections for elastic and charge-exchange, 24:8660

interactions $\pi^- + p$, Regge trajectories for two Yukawa potentials for explaining polarization effects in, 21:44375

interactions $\pi^- + p$, Regge-pole interpretation of backward elastic, 21:27380

interactions $\pi^- + p$, Regge-pole model for charge- and hypercharge-exchange, 21:15355

interactions $\pi^+ + p$, Regge-pole model for charge- and hypercharge-exchange, 21:15355

interactions $\pi^+ + p$, Regge-pole model for secondary maxima in, 21:44380

interactions $\pi^- + p$, Regge-pole model for secondary maxima in, 21:44380

interactions $\pi^- + p$, regularity in topologic cross sections for, (E/T), 24:37622

interactions $\pi^- + p$, relation between composite model and Regge pole model for charge-exchange, 22:41816

interactions $\pi^+ + p$, rescattering and absorptive corrections to Pomeranchukon in total cross sections and phase of forward amplitude for, 23:51945

interactions $\pi^- + p$, rescattering and absorptive corrections to Pomeranchukon in total cross sections and phase of forward amplitude for, 23:51945

interactions $\pi^- + p$, resonances and antishrinkage of diffraction peak in, 21:46529

interactions $\pi^+ + p$, review of N^* production in, 24:5297

interactions $\pi^- + p$, review of N^* production in, 24:5297

interactions $\pi^- + p$, SLAC wire spark chamber spectrometer for studying, 24:46511 (SLAC-PUB-801)

interactions $\pi^- + p$, spark chamber for detecting neutral particles produced in, 21:6215

interactions $\pi^- + p$, static model using crossing-symmetric off-shell equations for elastic, 24:18205

interactions $\pi^+ + p$, static model using crossing-symmetric off-shell equations for elastic; 24:18205

interactions $\pi^- + p$, SU(3) for three-body final state hadron production from, 21:42400

interactions $\pi^+ + p$, SU(3)-invariant t-channel amplitudes for, 21:40221

interactions $\pi^- + p$, SU(3)-invariant t-channel amplitudes for, 21:40221

interactions $\pi^+ + p$, sum rules for amplitude ratio of $\pi^- + p$ interactions to, (T), 25:9789

interactions $\pi^- + p$, sum rules for amplitude ratio of $\pi^+ + p$ interactions to, (T), 25:9789

interactions $\pi^- + p$, superconvergence sum rule from parametrization of N and Δ trajectories, 22:20267

interactions $\pi^+ + p$, test of duality in backward angular distributions for, 24:24365

interactions $\pi^+ + p$, U(6,6) peripheral absorption model for backward, 23:34608

interactions $\pi^- + p$, U(6,6) peripheral absorption model for backward, 23:34608

interactions $\pi^+ + p$, unitarity upper and lower bounds on absorptive parts of amplitude for elastic, (T), 24:37953

interactions $\pi^- + p$, unitarity upper and lower bounds on absorptive parts of amplitude for elastic, (T), 24:37953

interactions $\pi^+ + p$, unitarity upper bounds on amplitude for elastic, (T), 24:45526

interactions $\pi^- + p$, unitarity upper bounds on amplitude for elastic, (T), 24:45526

interactions $\pi^+ + p$, unsubtracted dispersion sum rule for, (T), 22:39409

interactions $\pi^- + p$, unsubtracted dispersion sum rule for, (T), 22:39409

interactions $\pi^+ + p$, weak duality for slopes of angular distributions of elastic, 25:30873

interactions $\pi^- + p$, weak duality for slopes of angular distributions of elastic, 25:30873

interactions $\pi^- + p$, Y = 1 fermion Regge pole hypothesis for backward, 22:1438

interactions $\pi^+ + p$, Y = 1 fermion Regge pole hypothesis for backward, 22:1438

interactions $\pi^- + p$, zero at wrong-signature sense point in backward elastic, 22:44447

interactions π- + p $\rightarrow$ n + eta^0 at 5.9 GeV/c, cross sections for backward, (E), 25:12117

interactions π- + p $\rightarrow$ n + π^0 at 5.9 to 13.8 GeV/c, cross sections for backward, (E), 25:12117

interactions rho + p at 2 to 20 GeV, Regge pole theory for forward $\gamma + p \rightarrow$ rho^0 + p interaction cross sections for real part of amplitude for, (T), 25:1538

interactions rho + p, sum rule for amplitude of, 22:48263

interactions rho^0 + p $\rightarrow$ rho^0 + p, model for, (T), 25:53091

interactions rho^0 + p at 6 to 20 GeV/c, total cross section and phase of scattering amplitude for, (T), 24:20162

interactions rho^0 + p from $\gamma + p$ interactions, cross sections for elastic, (T), 22:46448

interactions rho^0 + p in interactions $\gamma + p \rightarrow p + \pi^+ + \pi^-$ at 5.25 GeV in hydrogen bubble chamber for elastic and total cross sections for, (E), 24:3502

interactions $\Sigma^- + p \rightarrow \Lambda + n$ at 0 to 650 MeV/c, polarizations and cross sections for, (E), 24:49314 (NYO-3651-14)

interactions $\Sigma^- + p \rightarrow \Lambda + n$ below 400 MeV/c in bubble chamber, Λ polarization and branching ratio for, (E), 23:49043 (NYO-3651-11)

interactions $\Sigma^- + p \rightarrow \Lambda + n$, hyperon ($\Lambda$) well depth in nuclear matter from, 24:52126

interactions $\Sigma^- + p \rightarrow \Lambda + p + \pi^-$, cross sections for, (E), 21:9706

interactions $\Sigma^+ + p \rightarrow \Lambda + p + \pi^+$, cross sections for, (E), 21:9706

interactions $\Sigma^- + p \rightarrow \Lambda\ (\Sigma^0) + n$ at 0 to 600 MeV/c in bubble chamber, branching ratio and Λp system in, (E), 24:47385 (CONF-690557-(Vol.2), pp 939-50)

interactions $\Sigma^- + p \rightarrow \Lambda\ (\Sigma^0) + n$ at low energies, potential model for Λp resonance in, (T), 24:47474 (CONF-690557-(Vol.2), pp 842-51)

interactions $\Sigma^- + p \rightarrow \Lambda(\Sigma^0) + n$ at 0 to 650 MeV/c, cross sections, angular distributions and enhancement production in, (E), 25:22686

interactions $\Sigma^- + p \rightarrow \Sigma^0 + n$ at 0 to 650 MeV/c, cross sections for, (E), 24:49314 (NYO-3651-14)

interactions $\Sigma^- + p \rightarrow \Sigma^0(\Lambda) + n$ at low energies, quark model for relation between cross sections of, 23:51955

interactions $\Sigma^- + p \rightarrow \Sigma^0(\Lambda) + n$ at low energies, quark model for baryon exchange in, 23:51955

interactions $\Sigma^- + p \rightarrow \Sigma^0(\Lambda^0) + n$, determination of capture ratio, Λ^0 lifetime, and $(\Sigma^- - \Lambda^0)$ mass difference from, (E), 22:41747

interactions $\Sigma^+ + p \rightarrow \Sigma^+ + p$ at 0.25 to 1.35 GeV/c, total cross sections for, (E), 21:9706

interactions $\Sigma^- + p \rightarrow \Sigma^- + p$ at 0.25 to 1.35 GeV/c, total cross sections for, (E), 21:9706

interactions $\Sigma^+ + p \rightarrow \Sigma^+ + p$ at 0.5 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323

interactions $\Sigma^- + p \rightarrow \Sigma^- + p$ at 0.5 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323

interactions $\Sigma^+ + p \rightarrow \Sigma^+ + p$ at less than 170 MeV/c, cross sections for elastic, (E/T), 21:13676 (ORO-2504-101)

interactions $\Sigma^- + p \rightarrow \Sigma^- + p$ at less than 170 MeV/c, cross sections for elastic, (E/T), 21:13676 (ORO-2504-101)

interactions $\Sigma^- + p \rightarrow \Sigma^- + p$ at low energies, potential model for Λp resonances in, (T), 24:47474 (CONF-690557-(Vol.2), pp 842-51)

interactions $\Sigma^- + p \rightarrow \Sigma^+ + p$ at low energies, potential model for Λp resonance in, (T), 24:47474 (CONF-690557-(Vol.2), pp 842-51)

interactions $\Sigma^+ + p \rightarrow \Sigma^+ + p$, one-boson-exchange model for differential and total cross sections for, 22:20274

interactions $\Sigma^- + p \rightarrow \Sigma^- + p$, one-boson-exchange model for differential and total cross sections for, 22:20274

interactions $\Sigma^+ + p$ at 150 MeV/c in hydrogen bubble chamber, cross section for elastic, 21:37673

interactions $\Sigma^- + p$ at 150 MeV/c in hydrogen bubble chamber, cross sections for elastic, 21:33598 (ORO-2504-103)

interactions $\Sigma^+ + p$ at 161.5 MeV/c in hydrogen bubble chamber, cross sections for elastic, 21:33598 (ORO-2504-103)

interactions $\Sigma^- + p$ at 161.5 MeV/c in hydrogen bubble chamber, cross section for elastic, 21:37673

interactions $\Sigma^+ + p$ at low energies, potential model for $^3S_1$ Λp resonance and effective range parameters for, 23:34622
interactions $\Sigma^+ + p$ at low energies, review of research on, (E), 22:17854
interactions $\Sigma^+ + p$ at low energies, review of research on, (E), 22:17854
interactions $\Sigma^- + p$ at low energies, review of research on, (E), 22:17854
interactions $\Sigma^+ + p$ in bubble chamber, compilation of cross sections, angular distributions, and polarizations for, (E), 25:38648 (UCRL-20000 YN)
interactions $\Sigma^- + p$ in bubble chamber, compilation of cross sections, angular distributions, and polarizations for, (E), 25:38648 (UCRL-20000 YN)
interactions $\Sigma^+ + p$ in hydrogen bubble chamber, review of, (E), 24:47366 (CONF-690557-(Vol.1), pp 5-50)
interactions $\Sigma^- + p$ in hydrogen bubble chamber, review of, (E), 24:47366 (CONF-690557-(Vol.1), pp 5-50)
interactions $\Sigma^+ + p$ in SU(3) symmetry, potential-model calculation of singlet scattering length and effective range for, 21:37840
interactions $\Sigma^+ + p$, at 135 to 175 MeV/c, formation of Σ hypernuclei from, (E/T), 21:5403
interactions $\Sigma^- + p$, commutation of axial charge with axial divergence in sum rule for, 24:3705
interactions $\Sigma^+ + p$, data compilation on, (E), 23:32617
interactions $\Sigma^- + p$, data compilation on, (E), 23:32617
interactions $\Sigma^- + p$, SU(3) calculation using Λ—p parameters of cross sections for, 21:35318
interactions $\Sigma^+ + p$, SU(3) relations between cross sections for $n + p$ interactions and, 21:35318
interactions $W^+ + p$, Bjorken asymptotic formula for, 22:17923
interactions with 3°K photons, slowing down of primary cosmic in, (E/T), 25:22379
interactions with Alfven waves in magnetosphere, (T), 25:56011
interactions with alpha particles at 80 MeV, proton polarization from, 21:21493
interactions with antiprotons in the Universe, gamma-ray spectra from, (T), 23:14575
interactions with antiprotons, cosmic gamma radiation from, (T), 23:22942 (N-68-36900)
interactions with antiprotons, electron and positron energy distribution from, (T), 21:33066
interactions with argon-40, 21:36579 (PNE-627-E)
interactions with atomic hydrogen, charge exchange cross sections for, (T), 21:11407
interactions with charged conserved current, Bjorken limit and Jin—Martin lower bound for, (T), 25:3294 (NYO-4204-5)
interactions with cosmic hadrons above 70 GeV, multiparticle production from, (E), 25:19905
interactions with cosmic mesons (μ) in lead, inelastic, (E), 21:2355
interactions with electromagnetic fields, model for rho^0 production from, 22:22369 (NYO-1932(2)-130)
interactions with electrons and protons in molecules, magnetic, (E/T), 21:46143
interactions with electrons in solar atmosphere, gravitational radiation power calculation for, 22:39486
interactions with electrons, bremsstrahlung from, (T), 25:58837
interactions with electrons, production of diffuse cosmic x-ray background by, (T), 24:19697
interactions with hadron at high energies, relation of form factors with equal-time electromagnetic current commutators for meson (μ) pair and hadron production in, 23:49173(T) (SLAC-Trans-98)
interactions with hadrons at 100 GeV/c, proposed experiment for single-arm wire-plane spectrometer study of elastic and inelastic, (E), 24:51929 (TID-25473(Vol.4), pp 59-65)
interactions with hadrons at 30 and 120 GeV/c, proposed experiment using missing-mass technique for diffraction dissociation study of resonances in, 24:51932 (TID-25473(Vol.4), pp 291-7)
interactions with hadrons at high energies, nonshrinking diffraction peaks for elastic, 24:18148 (CALT-68-242)
interactions with hadrons at high energies, quark-current and field algebra predictions for meson (μ) pair and hadron production in, (E/T), 23:49173(T) (SLAC-Trans-98)
interactions with hadrons at high energies, s-channel resonances for energy dependence of forward peak of elastic, 25:40996
interactions with hadrons at high energies, two- and quasi-two-body final states in list of, 24:51928 (TID-25473(Vol.4), pp 1-17)
interactions with hadrons at high energies, verification of electromagnetic hadron current structure from asymptotic sum rules for meson (μ) pair and hadron production in, 23:49173(T) (SLAC-Trans-98)
interactions with hadrons, rho(ω) exchange in duality for complex conjugate pair of Regge poles in, (T), 24:42940
interactions with hydrogen atoms, charge-overlap effects on dispersion and induction forces in, (T), 23:22896
interactions with hydrogen, electron capture in, (T), 21:43760
interactions with hydromagnetic waves in the magnetosphere, (T), 22:41461
interactions with leptons, electromagnetic form factor for γNN^* vertices from, (T), 21:2431
interactions with lunar surface of solar, neutron flux from, (T), 21:39767
interactions with massless pseudoscalar meson, energy balance of sun for upper bound on, (T), 23:7117
interactions with matter at high energies, method for estimation of primary energy from shower parameters, (T), 22:34892
interactions with mesons, 10* and 27 Regge trajectories for, 21:33747
interactions with mesons, broken SU(6) predictions for baryon and polarized vector meson production in, 25:53212
interactions with mesons, charge exchange in many-body, 23:10807
interactions with mesons, production of baryon—antibaryon pairs in many-body, 23:10807
interactions with microwave photons at ultra-high energies, calculation of neutrino spectrum from, (T), 23:13073
interactions with microwave photons, (T), 22:45915
interactions with neutral cosmic particles, scintillation and Cherenkov counter study of neutron and low-energy mesons (μ^+) in, (E), 24:15442 (CERN-69-28, pp 141-4)
interactions with neutral hydrogen in radiation belts, (T), 22:31720
interactions with neutrinos in the Universe, (T), 25:2874
interactions with nuclei at 0.1 to 30 GeV, Monte Carlo calculation of intranuclear cascades in inelastic, (T), 23:49172(T) (ORNL-tr-2200)
interactions with nuclei at 24 GeV/c in emulsions, review of fast deuteron and triton emission from, 23:18795 (CONF-671217-, pp 589-695)
interactions with nuclei at 6.8 GeV/c, differential cross sections for d, π^+, and p production in, (E), 24:28485
interactions with nuclei at several hundred MeV, cross-section calculations using Glauber theory, (T), 25:20490
interactions with nucleons at 19.3 GeV/c, (T), 21:17395
interactions with positive mesons, accuracy of Tomonaga intermediate coupling approximation for, (T), 22:39411
interactions with positive mesons, cross sections from Tomonaga approximation for, 23:36947
interactions with protons at 30 MeV, bremsstrahlung production by, (E/T), 21:29875
interactions with protons at 50 MeV, differential cross sections for elastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
interactions with protons in intense magnetic fields, (T), 25:30050
interactions with protons in superdense baryon stars, (T), 24:8261
interactions with protons, cosmic gamma spectra from, (T), 23:22945 (N-68-37754)
interactions with protons, cross-section factor for, (T), 22:29124
interactions with pseudoscalar mesons, formulas for Mandelstam branch point contribution to proton and boson resonance production in, (T), 25:22830
interactions with unstable hadrons, design of storage rings for, 21:46631
interactions with vector mesons, polarization in vector dominance models for π production in, 22:39419
interactions with virtual photons, effects on hyperfine splitting of hydrogen atom, 21:33647
interactions $\Xi^0 + p \rightarrow \Xi^0 + p$ at 1.0 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Xi^- + p \rightarrow \Xi^- + p$ at 1.0 to 4.0 GeV/c in bubble chamber, cross sections for, (E), 24:49323
interactions $\Xi^- + p \rightarrow \Xi^- + p$ in hydrogen bubble chamber, cross sections for, (E), 24:45421
interactionss $\pi^+ + p \rightarrow p + \pi^+$, spark chamber study of $\pi^- + p \rightarrow \pi^0 + p$ interactions at 4 to 11 GeV/c for study of backward, (E), 25:33553 (NP-18840)
interplanetary-medium effects on fluxes of, from flare of May 28, 1967, (E), 23:30267
ionization effects in polar regions during PCA events of 1967, solar, (E), 25:1075
ionization in polar regions due to, from solar flare of July 7, 1966, (E), 23:22818
ionization of monoenergetic, in tissue-equivalent gas, 21:22364(R) (BNWL-235-2)
kinetics in magnetosphere, time-averaged, (E), 24:8389 (N-69-37576)
Larmor frequency of, magnetometer study of upper limit for gravity shift of, (E), 23:34529
latitude profiles of solar, relation to outer-zone electron flux, (E), 24:6435
latitude-intensity structure and pitch-angle distributions of low-energy solar, over polar caps, (E), 22:41264
leakage losses from radiation belts, (T), 23:30442
lifetime of, Cherenkov detector study of lower limit on, (E), 25:19893
lifetime of, heavy-water Cherenkov detector study of lower limit for, (E), 24:37620 (COO-1749-12)
lifetime of, preliminary results for lower limit on, (E), 22:41741 (COO-1749-5)
lifetimes for low-energy, in outer radiation belt, (E), 22:47973
linear energy transfer in dielectric liquids, (T), 22:38800
localization in different regions of human brain, design of instrument for, 24:6094
loss from inner radiation zone, low-energy, 21:41925
losses from inner radiation belt, nonadiabatic, (T), 23:10542
losses from magnetosphere by charge exchange and pitch-angle diffusion, (T), 25:11803
losses from ring current during magnetic storms, (E/T), 24:47139
losses of geomagnetically trapped, nonadiabatic, (T), 24:12740
lunar shadowing of, in magnetotail, (E), 23:10382
magnetic charge of, (T), 22:45916
magnetic cutoff of extragalactic, in the galactic disk, (T), 22:41384
magnetic dipole moments in hydrogen atoms, relativistic treatment of shielding of, 23:41936
magnetic field effects on solar, interplanetary, 21:5025 (N-66-32640)
magnetic moment, 21:21172
magnetic moment and mean radius of, quasi-independent quark model for, 23:21078
magnetic moment in SU(3), sum rule for, 21:29609
magnetic moment in U(6,6), 22:9665
magnetic moment in unbroken SU(6), 23:39770
magnetic moment of, (E), 22:34245 (TID-24491, pp 1-5)
magnetic moment of, current algebra for ratio for proton and neutron, 22:3490
magnetic moment of, determination from beam energy measurements, (E), 23:21211
magnetic moment of, from $e^- + p$ interactions at high energies, (E), 21:18885
magnetic moment of, measured by new method, (E), 21:29872
magnetic moment of, measurement using magnetic resonance mass spectrometer, (E), 23:21043
magnetic moment of, measurement using omegatron, (E), 25:9622
magnetic moment of, measurement using quadrupole omegatron, (E), 23:21041
magnetic moment of, near equality of electron anomalous magnetic moment and anomalous, 24:12969
magnetic moment of, nonrelativistic quark model for ratio of proton-to-neutron, 23:30733
magnetic moment of, Pade approximation in Lagrangian field theory for, 24:40315
magnetic moment of, polarization function for calculation of anomalous, (T), 25:9867
magnetic moment of, precision determination of, (E), 24:45412
magnetic moment of, quark model for exchange contribution to, 22:5531
magnetic moment of, sum rule for, 21:2428
magnetic moment relative to hyperons (Ξ^-) in broken SU(3), 21:33758
magnetic moment relative to neutrons, [U(6) x U(6)]/sub β/ representation mixing for, 23:46782
magnetic moment relative to protons in broken SU(3), 21:33758
magnetic moment, (E), 21:15481
magnetic moments for, algorithms for zero-momentum vertex parts for, (T), 25:22749
magnetic moments from current commutation relations in representation mixing, sum rules for, 21:17154
magnetic moments in strong coupling meson theory, 23:39654
magnetic moments of, review of, (E/T), 23:49156
magnetic monopole moment of, use of superconducting quantum interferometer for determination of, (E), 22:50282
magnetic resonance in rare earth hydrides, temperature-dependent Knight shifts in, (E), 21:18804
magnetic susceptibility in broken SU(6) symmetry, 24:40445
magnetic-moment sum rules from commutation relations between current densities, 21:902
magnetization of, dipole fit of electromagnetic form, factors for dipole distributions of, 24:24292
mass density of, (T), 21:37641
mass difference $(K^+ - K^0)/(n - p)$ ratio, field algebra for electromagnetic, 22:26602
mass difference (n - p) and transition matrix elements for, electromagnetic, 25:14617
mass difference (n - p) for, solutions of model field theoretic equation for, 22:29712
mass difference (n - p) from bootstrap model, effect of electromagnetic corrections to, 23:10791
mass difference (n - p) from inelastic $e + p$ interactions, 22:11611
mass difference (n - p) from $N^*(1400)$ mass splitting and πNN and πNN^* coupling constants, 24:1537
mass difference (n - p) from partial-wave amplitudes for anti $N + N \rightarrow \gamma + \gamma$ interactions, 23:18865
mass difference (n - p) from Veneziano model expressions for forward Compton scattering, 24:13010
mass difference (n - p) in dispersion theory, 24:18133
mass difference (n - p) in $\gamma + \pi + N \rightarrow \gamma + \pi + N$ interactions, field-theoretic method for feedback in calculations of, 24:26402
mass difference (n - p) in nonlocal field theory, electromagnetic, 24:35635
mass difference (n - p) in static model, low-order contribution to, 21:37748
mass difference (n - p) in SU(2) bootstrap model, 21:25260
mass difference (n - p), (T), 22:13707
mass difference (n - p), (T), 24:20115
mass difference (n - p), analytic continuation of divergent integrals for electromagnetic, 22:50364
mass difference (n - p), bootstrap theory of symmetry breaking for, 21:29591
mass difference (n - p), calculation using generalized superconvergence relation, 22:11612
mass difference (n - p), contribution of A_1 Regge pole to, 23:10790
mass difference (n - p), contribution of Born term to electromagnetic, 25:12154
mass difference (n - p), contribution of $N^*(1238)$ mass splittings to, 21:2426
mass difference (n - p), current algebra for electromagnetic, 21:29478
mass difference (n - p), dispersion relation treatment of perturbation effects on, 22:15732
mass difference (n - p), dispersion relations and sum rule for, 24:32999
mass difference (n - p), dispersion relations for, 21:29489
mass difference (n - p), dispersion sum rule for calculation of, 23:36942
mass difference (n - p), effect of strong interaction on electromagnetic, 22:46359
mass difference (n - p), feedback mechanism for, 21:9748
mass difference (n - p), field-theoretic calculation of, 22:11616
mass difference (n - p), finite-energy sum rule for calculation of, 24:37719
mass difference (n - p), high- and low-energy contributions to, 23:34560
mass difference (n - p), indefinite metric for electromagnetic, (T), 25:56547 (NYO-1932(2)-200)
mass difference (n - p), inelastic contribution in Cottingham formula for, 22:44363

mass difference (n - p), inelastic model of, 21:15284
mass difference (n - p), inelastic model of, 22:11615
mass difference (n - p), magnetic contribution to, (T), 21:23323
mass difference (n - p), model with SU(3) symmetric gauge invariant Lagrangian for electromagnetic, 24:1546
mass difference (n - p), N* exchange in Bethe-Salpeter-equation model for, 21:37823
mass difference (n - p), nonleptonic weak decay relation with $I = 1$ electromagnetic, 23:39665
mass difference (n - p), off-shell reciprocal bootstrap model for electromagnetic, 23:32661
mass difference (n - p), quark model for electromagnetic, 21:4020
mass difference (n - p), radiative corrections to πNN vertex determining, (T), 25:17435
mass difference (n - p), Reggeized tadpole model for, 23:39646
mass difference (n - p), relation with $e + N$ inelastic interactions, 24:12993
mass difference (n - p), S—matrix method for calculation of, 24:18219
mass difference (n - p), sidewise dispersion relations for, 22:52958
mass difference (n - p), single-particle elastic contribution to electromagnetic mass shift for, 23:39665
mass difference (n - p), use of gravitational Ward—Takahashi identity for, 23:32668
mass difference (n—p) in model of higher baryon couplings, 24:47452
mass difference (p - n), ghost scalar meson in model for, 21:2419
mass differences (n - p) in Feynman—Speisman model, 24:49397
mass formula $(\Sigma^+ - \Sigma^-) - (p - n) - (\Xi^0 - \Xi^-) = 0$, corrections to Coleman—Glashow, 23:5579
mass of, continuity equation for scalar Riemann curvature of space—time for μ/m and α for ratio of electron mass with self, 22:34919
mass of, formulas for relation with gravitational constant for, (T), 25:9878
mass of, SU(3) X SU(3) symmetry and dilatation invariance realization in symmetry limit from vanishing of bare without vanishing of physical, (T), 25:1480 (AD-706838)
mass relative to electrons in gravitational fields, calculation using Landau equations, 23:5683
mass relative to electrons, quadrupole gravitational radiation theory for calculating, 23:15010
mass relative to neutrons, superconvergent dispersion relations for, 21:9750
measurements in plasma sheet in earth's magnetic tail, 21:11524
mesic-atom (μ^-p) scattering by, (T), 23:36498 (LNF-69/5)
mobility in helium, (T), 22:31650
models of high-energy, spatial distribution, (E/T), 22:11320
modulation of cosmic primary, 11-year, (T), 23:46316
modulation of cosmic primary, IQSY observations, (T), 23:46317
modulation of cosmic, spectra of quiettime and near-solar minimum to calculate solar, (E/T), 25:22384
modulation of galactic cosmic, at solar minimum, 21:33234
modulation of galactic, during solar cycle, (E/T), 21:11468
modulation of galactic, measurement of solar, 22:5160
modulation of magnetospheric trapped, relation of coupled magnetic-field-line oscillations to, (T), 25:27623
modulation of primary cosmic, (T), 25:35924
modulation of primary cosmic, by solar wind, (T), 25:40400
modulation of primary cosmic, during sunspot minimum, (E), 22:36772
modulation of primary cosmic, solar, (E), 24:28130
modulation of primary cosmic, solar, (T), 21:35047
modulation properties of solar low-energy acceleration-related, associated with propagating interplanetary shock waves, (E), 25:56020
moments of, SU(6) predictions for electric polarization and magnetic, 21:7533
momentum distributions from elastic $p + p$ interactions at high energies, transverse, 21:21204
momentum distributions in nuclei, determination using particle quasi-elastic scattering, (E/T), 21:17408
monitoring of solar, (T), 24:37091 (N-70-22889)
monitoring of solar, relation to riometer measurements and radiation dose rates, (T), 23:41848
monitoring of solar, review of, 23:36549
motion along auroral arcs, (T), 23:32256
motion in accelerating gap of Alvarez linac, canonical thin lens approximation for, 24:22024 (CERN-70-7)
motion in inner solar system, solar, 21:14924 (N-66-36065)
motion in magnetic fields, tabulation of energies and orbit radii for, 23:42788 (CEA-R-3766)
motion in relativistic high-current cyclotron, space charge effects on, 22:1526 (JINR-P9-3448)
motion in single crystals of silicon, blocking and channeling effects in, (E), 22:27087(R) (ANL-7405)
motion in spiral magnetic fields, (T), 22:13345
motion in strong-focusing quadrupole lenses, 22:1538(T) (CERN-Trans-67-4)
motion in the field of Alfven waves, (T), 22:9315
motion in the geomagnetic trap, dynamics of, 22:48006
motion in tungsten crystal, reversibility of, 21:40075
motions in complex hydrogenous liquids, relation to slow-neutron scattering, (E/T), 21:2029
motions in complex hydrogenous liquids, relation to slow-neutron scattering, (T), 21:2028
N* resonance admixtures to $^1S_0$ p—n system, (T), 24:15605
neutralization of fast solar-wind, (T), 23:46227
neutron capture by, $^3S_1$-$^3S_1$ radiative transitions in thermal, 25:20519
nitrogen excitation in aurorae by, 5 to 25 keV, (E), 25:27616
nuclear interactions in various materials, range—energy relations for, 23:46526 (CERN-69-17)
nuclear magnetic resonance frequency of, relation to cyclotron frequency of free electrons in same magnetic field, (E), 22:5428
nuclear magnetic resonance in light rare-earth hydrides, 23:23282
nuclear magnetic resonance in uranium hydride, 24:26336
nuclear magnetic resonance, use to measure nuclidic mass and isotopic abundance, 25:1716
nuclear optical-model potential at 50 MeV, (T), 22:27361
nuclear optical-model potential for, real central part of, (T), 22:30087
nuclear optical-model potentials for, shape of spin-orbit, (T), 21:21612
observations of solar low-energy, during 1967 at widely separated locations, (E), 25:55956
occurrence in outer plasmasphere, scale-height/temperature gradient relationship, (T), 24:30229
origin and loss in inner radiation belt, 21:9439
origin and propagation of, associated with centers of solar activity, (E), 22:36563 (N-68-11005)
origin in inner radiation belt, relation of albedo neutron flux to, 22:26316
origin of high-energy, in inner radiation belt, (T), 24:37331
origin of, in Cytherean ionosphere, (T), 24:23726
pairing with neutrons in N not equal to Z light nuclei, $T = 0$ correlations for, (T), 24:35907
paths in biological tissues, equations for calculation of, 22:47533
penetration into Earth ionosphere, effects of interstellar, 25:5021
penetration into interplanetary space, magnetosphere, and magnetotail, satellite measurements of solar, 24:39934
penetration into magnetosphere at boundary cusps, (T), 23:27486
penetration into magnetosphere during solar flare of July 7, 1966, (E), 23:22826
penetration into magnetosphere, deep, (T), 24:26072
penetration into magnetosphere, interplanetary and magnetospheric measurements of low-energy solar, (E/T), 25:27542
penetration into solids, path lengths for, (T), 25:4940
penetration of 5- to 70-MeV solar, to synchronous altitude, (E), 23:44238 (AD-682943)
penetration of high-energy solar and flare-associated, to equatorial ionosphere, (E), 25:2965
penetration of low-energy solar, to lower geomagnetic latitudes during magnetic disturbances, (E/T), 24:47145
penetration of magnetic field lines in solar wind of low-energy galactic, role of stochastic fields in, (T), 23:1227
penetration of solar, into magnetosphere over polar cap, (E), 24:42582
penetration of solar, to 1100 km in polar regions during flares of Mar. 21 and 24, 1966, (E), 23:5166
penetration of solar, to synchronous altitude, (T), 24:49066 (AD-702799)
penetration of solar-energetic, into magnetotail, (E), 23:30415
photoinduced beta decay in stellar interiors, (T), 25:45167 (AD-718320)
photoproduction from helium-3 at 45 to 150 MeV, differential cross sections for, 21:33879
photoproduction from lithium-6, cross sections for, (E), 21:21468
photoproduction from lithium-7, cross sections for, 21:21467
photoproduction from oxygen-16 at 22 MeV, angular distribution and spectra for, (E), 21:40380
photoproduction from titanium isotopes at 22 and 30 MeV, yields for, (E), 22:1636
photoproduction in beryllium and tantalum, following electron bombardment, (T), 24:12873 (ORNL-TM-2751)
photoproduction on copper and lead at 5 to 6 GeV, 21:27228(T) (ORNL-tr-1534)
photoproduction on deuterons at 8.72 MeV, angular distributions from, (E), 21:25427
polarizability of, SU(3) and SU(6) symmetry relations for electric and magnetic, 21:4089 (JINR-P-2894)
polarization and relaxation of, in free radicals, NMR studies on, 21:34259
polarization and relaxation rate measurements in porphyrexide-doped butanol—H_2O at 25 kG, 25:7784
polarization and relaxation time measurements in porphyrexide-doped glycerol—H_2O below 1 K, 25:7785
polarization coefficient of, method for measuring, 23:8720 (UJV-2039)
polarization for use as targets, method for, 22:1336
polarization from deuteron reactions (d,p) with beryllium-9 at 5.5 MeV, apparatus for measurement of, 21:19928
polarization from double elastic scattering by oxygen at 2 to 3 MeV, excitation function for, (E), 21:33604
polarization from $\gamma + d \rightarrow p + n$ interactions at 170 to 450 MeV, (E), 22:15661
polarization from $\gamma + p \rightarrow p + \text{eta}^0$ interactions at 890 MeV, spark chamber and Cherenkov counter study of, (E), 21:46459
polarization from $\gamma + p \rightarrow \pi^0 + p$ interactions at 500 to 1000 MeV, (E), 22:26549
polarization from helium-3 reactions (He-3,p) with carbon-12 angular and energy dependence of, 22:4500 (JINR-P15-3504)
polarization from scattering by helium-4 at 3 to 30 MeV, (E), 21:21424
polarization in $(La,Nd)_2Mg_3(NO_3)_{12}.24\ H_2O$, leakage factor effects on dynamic, 23:15314
polarization in 50 kG field, apparatus for dynamic, 25:38824
polarization in ammonia targets, dynamic, 24:35757
polarization in broken SU(6) symmetry, 24:40445
polarization in butanol for use as targets, 23:30905
polarization in carbon-12 (d,p) reactions at 1.06 to 1.10 MeV, (T), 21:35429
polarization in carbon-12 (d,p) reactions at 12.4 MeV, (E/T), 25:20287
polarization in cerium-doped lanthanum magnesium nitrates, effects of phonon bottleneck on dynamic, 23:13173
polarization in crystals containing paramagnetic impurities, "solid effect" in dynamic, (E/T), 24:49275
polarization in dilute paramagnetic crystals between 1 and 4°K, dynamic, (E/T), 22:44255
polarization in DPPH-doped frozen toluene, 21:37653(R) (UCLA-34-P-106-1)
polarization in DPPH-doped polystyrene targets, 21:25369
polarization in dysprosium-doped lanthanum magnesium nitrates, measurement of dynamic, 23:15328
polarization in $e + d \rightarrow p + n + e$ backward interactions at very low momentum transfers, formalism for, 22:29619
polarization in $e + p$ interactions, contribution of elastic intermediate states to recoil, 25:22752
polarization in elastic $e + p$ interactions, (T), 24:40321
polarization in elastic scattering by calcium at 6.8 MeV, (E), 21:33944
polarization in elastic scattering by helium-3 and tritium at 156 MeV, 25:48015
polarization in electron-irradiated polycarbonates, 24:16568
polarization in $\gamma + n \rightarrow p + \pi^-$ and $\gamma + p \rightarrow p + \pi^0$ interactions, isotopic structure of isospin-1/2 N* photoexcitation amplitudes from comparison of, (T), 24:6681
polarization in $\gamma + n \rightarrow p + \pi^-$ interactions at 515 to 714 MeV, plastic scintillation counter and spark chamber study of, (E), 24:42866
polarization in $\gamma + n \rightarrow \pi^- + p$ interactions at 550 to 900 MeV, spark chamber and scintillation counter telescope study of γ reactions (γ,π^-p) with carbon-12 for, (E), 25:38635
polarization in $\gamma + p \rightarrow p + \pi^0$ interactions at 450 to 600 MeV, scintillation counter telescope and spark chamber of, (E), 22:44306
polarization in γ reactions (γ,π^-p) with carbon-12 at 650 to 1000 MeV, spark chamber and scintillation counter telescope study of, (E), 25:38635
polarization in highly hydrogenated substances by the solid effect, high, 21:42517
polarization in hydrated neodymium-doped magnesium lanthanum nitrate, dynamic, (E), 21:46400 (UCB-34-P-20-T-1)
polarization in hydrocarbons doped with free radicals for use as radiation targets, 21:37974
polarization in irradiated polymers, by solid effect, (E/T), 22:3601
polarization in $K^+ + n \rightarrow K^0 + p$ interactions near 600 MeV/c in deuterium bubble chamber, (E), 24:6692
polarization in $K^+ + p \rightarrow K^+ + p$ interactions at 780 MeV/c in hydrogen bubble chamber, 21:33616
polarization in $K^+ + p \rightarrow K^+ + p$ interactions at 864 MeV/c in hydrogen bubble chamber, (E), 23:51861 (UCRL-19278)
polarization in lanthanum magnesium nitrate containing molybdenum, 21:11700
polarization in lanthanum magnesium nitrate targets, 21:19119
polarization in magnesium lanthanum nitrates, 21:21352
polarization in magnesium lanthanum nitrates, 21:21353
polarization in neodymium-doped yttrium ethyl sulfate, low-temperature dynamic, (E), 22:1357
polarization in polyhydric alcohols doped with chromium complexes, dynamic, 25:31046 (RHEL/R-213)
polarization in porphyrexide-doped 1-butanol—H_2O, temperature-dependence of dynamic, (E), 23:44776
polarization in $\pi^- + p$ and $\pi^+ + p$ elastic interactions at 550 to 1025 MeV, (E), 22:29631
polarization in radiation targets, dynamic, (T), 21:42507
polarization in radiation targets, NMR methods for, 21:42505
polarization in solid toluene and other similar hydrocarbons, 21:42516
polarization in $\Sigma^+ \rightarrow p + \pi^0$ decay, spark chamber study of, (E), 24:12944
polarization in targets of butanol and glycol at low temperature, 24:35761
polarization in targets, cryostat for dynamic, 24:37408
polarization in targets, linearized Q-meter circuit for measurement of, 22:7596
polarization measurement of, effects of instrument symmetry defects on, (T), 21:26296
polarization measurements at 10 MeV, experimental facility for, (E), 22:1598(R) (COO-1265-49)
polarization measurements from high-energy photon reactions with nuclei, spark chamber telescope with magnetic spectrometer for, 25:42146
polarization measurements in porphyrexide-doped glycerol—water at low temperatures and high magnetic fields, 25:3500
polarization of recoil, from $\gamma + p \rightarrow \pi^0 + p$ interactions at 240 to 420 MeV, (E), 22:29615
polarization of recoil, $\gamma + p \rightarrow p + \pi^0$ interactions at 750 and 1450 MeV, (E), 22:24523
polarization of recoil, in counter—spark chamber study of $\gamma + p \rightarrow \pi^0 + p$ interactions at 0.65 to 1.375 GeV, (E), 25:17356
polarization of recoil, in $\gamma + d \rightarrow \pi^- + p + p$ interactions, impulse approximation calculation of, (T), 25:19940

polarization of recoil, in $\gamma + p \rightarrow$ eta + p interactions at 0.8 to 1.1 GeV, counter—spark chamber study of, (E), 25:17354
polarization of recoil, in $\gamma + p \rightarrow p +$ eta^0, eta$^0 \rightarrow 2\gamma$ interactions at 0.8 to 1.1 GeV, (E), 25:3255
polarization of recoil, in $\gamma + p \rightarrow \pi^+ + p$ interactions at 1200 to 1800 MeV, spark chamber study of, (E), 25:14516
polarization of recoil, in pion production, 21:14127(R) (NP-16420)
polarization of recoil, in $\pi^- + p \rightarrow \pi^- + p$ and $\pi^+ + p \rightarrow \pi^+ + p$ interactions below 2 GeV, (E), 23:25526(T) (ORNL-tr-1926)
polarization of secondary, in $p + p \rightarrow \pi^+(\pi^0) + p + n(p)$ interactions at 669 MeV, (E), 25:5268 (JINR-P1-5293)
polarization of secondary, in $p + p \rightarrow \pi^+(\pi^0) + p + n(p)$ interactions at 669 MeV at 8.3 to 18.0°, (E), 25:33537
polarization of targets of, NMR measurement of, 21:21354
polarization of, analyzing power of helium polarimeter for, (T), 23:1929(R) (COO-1265-67)
polarization of, cryostats for targets used for, 22:15896
polarization of, design and construction of apparatus for measurement of, 21:19928
polarization of, electric and magnetic, (T), 23:8775
polarization of, in neodymium-doped magnesium lanthanum nitrates, 21:2287 (UCB-34-P-20-T-1)
polarization of, in ytterbium-doped yttrium ethyl sulfate crystals, 21:7369
polarization of, method for, 21:7619(P)
polarization of, method for, 21:33209(P)
polarization of, method for determining, 21:7611
polarization of, method for measuring, 21:31828 (CEA-Bib-83)
polarization of, NMR system for measuring, 21:19120
polarization of, oxygen-16 (p,He-3) and (p,t) reactions for analyzing, (E), 24:43121
polarization of, phenomenological model for spin—spin interaction in dynamic, 22:1335
polarization of, review of methods for, 22:46566 (CERN-68-32)
polarization of, use of Q meters for measuring, 21:28319
polarized, design of radiation targets with, 21:42514
precipitation at equatorial inner radiation belts during magnetic storm, Oct. 31, 1968, high energy, (E), 24:42600
precipitation at high-latitude noon—midnight meridian, relation to geomagnetic activity, (E), 25:27579
precipitation during auroral breakup, impulsive, (E), 24:39951
precipitation from auroral region during 1968 quiet-time, pitch distribution of 300 to 450 keV, 25:45366
precipitation in aurora, rocket measurements of, 22:1064
precipitation in auroral oval zones, spectrographic observations of, 24:47134
precipitation in auroral region, simultaneous observations with auroral radar echoes, (E), 25:55963
precipitation in auroral zone, 21:46269
precipitation in auroral zone, satellite measurements of, 22:5267
precipitation in auroral zone, satellite measurements of, 21:11533
precipitation in auroral zones, spectrometer for detecting, 24:39326
precipitation into atmosphere, 21:9441
precipitation into aurora, relation of Hβ spectra to <30-keV, (E), 23:48824
precipitation into auroral zone from magnetotail, (E), 23:10516
precipitation into auroral zone, (E), 23:10525
precipitation into auroral zone, (T), 23:46402
precipitation into auroral zone, satellite-borne electrostatic analyzer observations of, (E), 25:40480
precipitation of 1- to 20-keV, during auroral breakup, (E), 23:39376
precipitation of 1- to 20-keV, during auroral breakup, (E), 24:17748 (N-69-41121)
precipitation of auroral, correlation of radar echoes from aurora with, 22:2942
precipitation of, effects on vlf transmission of auroral, (E), 23:42111
precipitation over polar caps, nonuniformity of solar, 21:43919
precipitation patterns for keV, auroral, over northern polar cap, 1968, (E), 25:27576
precipitation patterns in auroral zone during magnetic quiettime, (E/T), 25:22417
precipitation to 100 km in auroral zone, ground-based observations of, (E), 25:33155
preparation and use of targets of polarized, in high energy physics, 21:11888
production above 25 MeV from μ^- absorption by bromine and silver at rest in emulsions, (E), 24:30462
production by 20- to 50-keV molecular hydrogen ion beams in lithium plasma, cross sections for, (E), 21:11656
production by collisional dissociation of molecular hydrogen ions with gas molecules, 21:2015 (CEA-R-2983)
production by deuteron—deuteron interactions in Burnout magnetic mirrors, 21:31473
production by synchrocyclotron (SREL), 22:51935
production cross sections for fast, from hydrogen atom—hydrogen ion collisions between 3 and 115 keV, 21:11449
production for Alice injection experiments, 21:11593 (UCRL-50002-66-1, pp 5-59)
production from bremsstrahlung reactions with copper from electrons incident at 50 to 400 MeV, analytic representation of differential yields for, 23:49073 (ORNL-4442)
production from cosmic $\pi + N$ interactions at high energies, lower limit for transverse momentum and four-momentum transfer for, (E), 21:37700 (INR-793/VI/PH)
production from $\gamma + p \rightarrow p + \pi^0$ interactions at 163 to 234 MeV, phenomenological analysis of, 22:13699
production from $\gamma + p$ interactions below 5.8 GeV in hydrogen bubble chamber, angular and momentum distributions from, 21:27292
production from $p + N$ interactions at 2.9 GeV in beryllium and platinum, counter study of differential cross sections for, 21:33606
production from $p + N$ interactions at 24 and 27 GeV/c in emulsions, (E), 21:29442
production from $p + p$ highly inelastic interactions at 10 to 30 GeV/c, phenomenological analysis for, 21:33716
production from $p + p$ interactions at 10 to 30 GeV/c, wire-plane spectrometer study of spectra from, 21:33600
production from proton reactions with nuclei at 1.0 to 3.0 GeV, cross sections for, (E), 21:23314 (BNL-994, pp 70-102)
production in 156-MeV proton bombardment of medium and heavy nuclei, energy and angular distributions of, 23:5938
production in cosmic nuclei reactions with nuclei at very high energies in emulsions, angular distribution and transverse momentum for, (E), 25:7549
production in cosmic proton reactions with nuclei at 10^{12} to 10^{13} eV in emulsions, (E), 24:35604 (SJC-P-70-2)
production in cosmic-neutron interactions in nuclear emulsions, (E), 22:15383
production in electromagnetic cascades in copper, lead, and heavy concrete, angular distribution for, 21:42239
production in electron reactions with beryllium, beryllium—iron, and iron at 16 and 18 GeV, yields of, (E), 22:20113
production in electron reactions with molecular hydrogen ions, cross section for, (E), 22:8996
production in four-prong $\pi^+ + p$ interactions at 8 GeV/c in hydrogen bubble chamber, angular and momentum distributions for, (E), 25:56428 (IFA-HE-75)
production in $\gamma + d \rightarrow p + p + \pi^-$ interactions at 3.4 GeV, impulse approximation using $p + p$ wave functions for Coulomb-interaction effects in, 24:20174 (SU-1206-214)
production in $K + p$, $\pi + p$, and $p + p$ interactions at high energies, large-momentum-transfer, (T), 24:37746
production in $K^- + d \rightarrow p + \pi^- + \Lambda^0$ interactions, impulse approximation calculations for, (T), 21:9812
production in meson (π^-) reactions with bromine and silver at 1.55 GeV, (E), 21:46643(R) (ORNL-4134)
production in meson (π^-) reactions with emulsion nuclei at 7.2 GeV/c, yields of, (E), 23:18813
production in meson (π^+) reactions with nuclear emulsions, 21:2630
production in $\mu^- + \mu^+ \rightarrow p +$ anti p interactions, polarization in, (E), 21:865
production in $\mu^+ + N$ interactions at 10.1 GeV/c and $\mu^- + N$ interactions at 14.6 GeV/c in emulsions, energy spectrum, angular distributions, and cross sections for, (E), 24:20058
production in $p + n$ interactions at 24 GeV in emulsions and hydrogen bubble chamber, energy spectra and transverse-momentum distributions for, (E), 25:5276
production in $p + p \rightarrow \gamma + p + p$ interactions, cross sections and asymmetries for, (T), 25:33616
production in $p + p \rightarrow p + p + \gamma$ interactions at 42 MeV/c, wire-chamber spectrometer study of differential cross sections for, (E), 25:14556
production in $p + p$ inelastic interactions, central processes for cross sections for, (T), 25:17467
production in $p + p$ interactions and proton reactions with nuclei at 19.2 GeV/c, spectrometer study of spectra from, (E), 24:35603 (CERN-70-12)
production in $p + p$ interactions at 12 to 70 GeV/c, hypothesis of limiting fragmentation for, (E/T), 24:45545
production in $p + p$ interactions at 12.4 GeV/c, differential cross sections for, (E), 25:7548
production in $p + p$ interactions at 12.4 to 12.5 GeV/c, differential cross section for, (E), 25:17379
production in $p + p$ interactions at 14.25 to 70 GeV/c, phenomenological study of inclusive single-particle spectra in triple Regge limit for, (T), 25:59505 (JINR-E2-6031)
production in proton quasi-free reactions with carbon-12 and calcium-40 at 1 GeV at 9 to 20°, energy spectra for, (E), 24:6688
production in proton reactions with aluminum at 12 to 70 GeV/c, hypothesis of limiting fragmentation for, (E/T), 24:45545
production in proton reactions with aluminum at 600 MeV, (E), 24:40255
production in proton reactions with aluminum, beryllium, copper, lead, and polyethylene at 12.3 GeV/c, yields and differential cross sections for, (E), 23:8732
production in proton reactions with beryllium and copper at 12.3 GeV/c, differential cross sections for, (E), 23:25523
production in proton reactions with nuclei at 20.8 GeV/c in emulsions, distributions of transverse momenta for, (E), 22:32053
production in proton reactions with nuclei at 28.8 GeV/c, effective mass spectrum of low-energy, (E), 24:26372
production in proton reactions with steel at 10 and 20 GeV/c, 21:13618
production in $\pi + N$ interactions at 17.2 GeV/c and $p + p$ interactions at 24 GeV/c, review of energy spectra for, 23:18795 (CONF-671217-, pp 589-695)
production in $\pi + N$ multi-prong interactions at 17 GeV in emulsions, analysis of, 22:34863
production in $\pi^- + n$ and $\pi^- + p$ interactions at 17.2 GeV/c in emulsions, momentum spectrum from, (E), 25:14564
production in $\pi^- + p \rightarrow \pi^- + N + \pi^- + n\pi$ interactions at 10 GeV/c in hydrogen bubble chamber, comparison of proton and neutron momentum spectra for, (E), 24:10812
production in $\pi^+ + p \rightarrow \pi^+ + p +$ eta interactions at 1050 to 1170 MeV/c, cross sections and angular distributions for, (E), 23:23387
production in $\pi^+ + p$ interactions at 8 GeV/c in hydrogen bubble chamber, correlation between transverse and longitudinal momenta in, (E), 24:45443
production in π^- reactions with xenon at 2.3 GeV/c, (E), 25:25298 (JINR-P1-5592)
production in rare-gas atom or ion reactions at 3 to 40 keV with H_2, cross sections for, 24:30159
production of 100-keV magnetospheric, by electromagnetic waves from magnetosheath, (T), 23:23007
production of 14.5-MeV, design of rotating heavy ice target for, 22:37252
production of anti p—p pairs of, in π^- reactions with carbon at 4 Gev/c in propane bubble chamber, correlated, (E), 25:53031
production of cascades of, from proton reactions in shielding materials, 21:11686
production of correlated pairs of, from meson (π^-) interactions with nucleons at 9 GeV in xenon bubble chamber, 21:33611
production of low-energy, in cosmic particle reactions with nuclei above 100 GeV in emulsions, (E), 25:56429 (INP-754)
production of low-energy, in π reactions with nuclei at 60 GeV in emulsions, (E), 25:56429 (INP-754)
production of p—anti p pairs in $\gamma + N$ interactions at high energies, cross sections for, (T), 24:42958
production of p—anti p pairs in $\pi^+ + p \rightarrow \pi^+ + p +$ anti $p + p$ interactions at 13.1 GeV/c in hydrogen bubble chamber, (E), 25:40879 (COO-1428-273)
production of polarized, double scattering arrangement for, 23:34699
production of πp pairs from elementary particle interactions, method for determining, 22:15701
production of quasi-isotropic fluxes of 1- to 10-keV, technique for, 21:44484
production of recoil from $\gamma + p \rightarrow p + \pi^0$ interactions at 750 to 1450 MeV/c, scintillation counter and spark chamber study of energy dependence of polarization in, (E), 22:20112
production of single slow recoil, in $\pi + N$ interactions at 17.2 GeV/c in emulsions, (E), 22:34984
production of solar, siting of solar flare regions related to, 21:36982
production of spectator, from $\pi^+ + d \rightarrow \pi^+ + \pi^- + \pi^0 + p + p$ interactions at 3.65 GeV/c in deuterium bubble chamber, cross sections for, (E), 22:3286
production of synchrotron radiation in quasars by relativistic, (T), 22:2740
production with rho$^+$ in $\pi^+ + p$ interactions at 5 GeV/c in hydrogen bubble chamber, cross sections for, (E), 25:40882 (NP-18882)
propagation in interplanetary magnetic field of 1.5-MeV, produced during solar flares, (E/T), 24:39793
propagation in interplanetary magnetic field regions corotating with Sun, (T), 23:25114
propagation in interplanetary magnetic field, (T), 23:20629
propagation in interplanetary space of solar, diffusion model for, (T), 23:22843
propagation in interplanetary space of solar, effects of field variations on, (T), 21:39774
propagation of cosmic primary, in the neutrino sea, (T), 25:2874
propagation of cosmic, through far-infrared radiation field, (T), 23:30369
propagation of high-energy cosmic, in universe, 23:46294 (ITF-69-44)
propagation of solar flare, in interplanetary space, (T), 22:889
propagation of solar, along lines of force of interplanetary field, (T), 22:23918
propagation of solar, in interplanetary field, (E), 24:1201
propagation of solar, in interplanetary magnetic field, (E/T), 21:5036
propagation of solar, to 4R/sub E/ in equatorial plane, (E), 22:47719 (N-68-23445)
propagation of solar, to polar cap atmosphere, (T), 22:2875
propagation of solar-flare, effect of interplanetary disturbance on, (T), 25:13869
properties in inner radiation belt, long-term, 24:17749 (UCRL-19309)
protection against, effects of local paraffin shielding of animals for, 21:16347(T) (JPRS-38272, pp 306-7)
protection against, shielding requirements for space-flight, 21:10197 (N-66-32206)
quality factor for 260- and 660-MeV, in water phantoms, 22:31115
quality factors for, in body and eye-lens tissues, calculation of, 25:29511 (AERE-M-1887)
radial gradient of cosmic, in interplanetary space, (E), 23:27392 (N-69-12960)
radiation damage to ion-implanted and diffuse silicon solar cells, low-energy, (E), 25:23937
radiation effects on copper and copper—gold intermetallics at 9 and 13 MeV, (E), 24:52563(R) (NP-18217)
radiation from relativistic, energy dependence of transition, (E), 21:37669
radio-wave phase perturbations produced by solar, vlf, 22:5237
radiobiological hazards of space flight due to, (E), 23:44192(R) (N-69-15944)
radioisotope production by 200 MeV, calculation of yields from, 24:9594 (BNL-50195)
radius difference (n - p) from model of meson (π) production by protons reactions with nuclei, 23:23495
radius from $e + p$ interactions, (T), 25:27991
radius in Bohr-like classical stochastic model of elementary particles, 25:56450
range and energy loss rate in polymers, (T), 21:22976 (USNRDL-TR-1102)

range and stopping power for, in various materials, (E), 21:11393 (NASA-SP-3036)
range and stopping power in aluminum, copper, lead, silver, uranium, and water, (T), 22:45926 (UCRL-18127)
range in air, argon, nitrogen, and oxygen at 0.2 to 2.0 MeV as function of energy, (E), 25:56276
range in air, nitrogen, and oxygen at 0.2 to 2.0 MeV, relation to energy, (E), 25:9162 (SC-RR-70-788)
range in aluminum, indium and zinc at 0.6 to 2.4 MeV, 23:3275
range in dosimetry glasses, 21:5903 (AD-642794)
range in elements, atomic number—energy nomogram for determining, 25:17260
range in gases of 5- to 50-keV, (E/T), 22:999
range in liquid hydrogen, (T), 25:9166
range in matter, calculation using free-nucleon target model, (T), 24:6603
range in molecular gases, biological effects from, (E), 22:29271
range in $\Sigma^+ \rightarrow p + \pi^0$ decay in helium bubble chamber, Σ^+ mass from, 21:44287
range relations for use in radiography, 25:39785
range—energy empirical relations for 100- to 100,000-MeV, 23:34599 (JINR-P1-4442)
range—energy of 100- to 100,000-MeV, empirical relations for, 23:51882(T) (ORNL-tr-2208)
range—energy relations in germanium and silicon at 0.8 to 2.0 MeV, 22:6708
range-energy relations for low-energy, in dense targets, (T), 22:978
range-energy tables for silicon at 1 to 200 MeV, (E/T), 22:3663
ranges in aluminum, carbon, copper, lead, and tin at 660 MeV, 23:39299
ranges in silica films at 15 to 50 keV, slowdown, 24:48991
ratio to pions at altitudes of 800 gm/cm^2, non EAS-associated, (E), 25:58834
RBE for, effects of LET on, 23:29743 (UCRL-18347, pp 82-95)
reaction (p,α) with phosphorus-31 at 1.0 to 2.0 MeV, silicon spectrometer for studying, 23:671 (CEA-R-3415)
reaction (p,d) with neon-21 at 20.0 MeV, angular distributions for, (E), 25:3633
reaction threshold energies for A = 2 to 260 nuclei, tables of, 21:27576 (UCRL-14001)
reaction with titanium, production of vanadium-48 by, 25:54677
reactions (γ,p) with oxygen-16 at 12 to 25 MeV, shell-model analysis of excitation function for, (T), 25:20290
reactions (n,f) with uranium at 2.9 GeV, energies and velocities of fragments from, (E), 24:15924
reactions (n,f) with uranium-235 and uranium-238 at 20 to 85 MeV, cross sections for, (E), 23:47012
reactions (n,γ) with argon-36, potassium-37 energy levels from, (E), 21:44636
reactions (n,γ) with chlorine-37 at 1.0 to 1.8 MeV, argon-38 energy levels and transitions from, (E), 22:9822
reactions (p,15p34n) with gold-197, effect of thick targets on monitoring proton beams by, 22:15895
reactions (p,2α) with boron-11 at 0.15 to 2 MeV, α correlations in, (E), 22:20460
reactions (p,2α) with boron-11 at 0.15 to 2 MeV, α momentum spectra for, (E), 23:25832
reactions (p,2α) with boron-11 at 163 keV, alpha spectra from, (E), 22:7650
reactions (p,2α) with boron-11, interference effects in 3α decay in, (E), 22:20578 (WASH-1079)
reactions (p,2α) with nitrogen-14 at 13 to 42 MeV, excitation functions for, (E), 25:43818
reactions (p,2α)α with boron-11 at 2.6 MeV, α-α coincidence spectra from, (E), 22:26894
reactions (p,2γ) with nitrogen-15 at 8.30 and 8.83 MeV, gamma singles and coincidence spectra and branching ratios from, (E), 25:17736
reactions (p,2n) and (p,3n) at 7.5 to 26 MeV with tantalum-181, γ and conversion electron spectra from, (E), 24:18367(R) (COO-535-603)
reactions (p,2n) and (p,3n) with americium-243 at 20 MeV, cross sections for, (E), 25:36795
reactions (p,2n) and (p,3n) with Z = 21 to 83 nuclei, empirical formula for cross sections for, (E), 25:34075 (KFKI-71-8)
reactions (p,2n) with bismuth-209 at 12, 14, and 16 MeV, γ spectra from, (E), 22:48551
reactions (p,2n) with calcium-44 at 18 MeV, production of isomeric scandium-43 by, (E), 21:33917
reactions (p,2n) with copper-63, iron-56, and iron-58 at 50 MeV, gamma energy and half-life measurements on, 21:38265
reactions (p,2n) with copper-63, zinc-62 energy levels from, (E), 21:1065
reactions (p,2n) with curium-244, search for fission isomer excitation in, (E), 25:7853 (UCRL-19530, pp 163-89)
reactions (p,2n) with europium-151 and europium-153 at 14 MeV, conversion-electron spectra from, (E), 22:48514 (JAERI-1158, pp 14-16)
reactions (p,2n) with europium-151 at 8.0 to 13.4 MeV, gamma spectra and angular correlations for, (E), 25:36775
reactions (p,2n) with europium-153 at 14 MeV, gamma and conversion-electron spectra from, (E), 25:5750
reactions (p,2n) with gold-197 at 12 to 16 MeV, gamma angular distribution from, (E), 21:1082 (UCRL-16987)
reactions (p,2n) with gold-197 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in mercury-196 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with gold-197, iodine-127, lanthanum-139, rhenium-187, rhodium-103, silver-107, and silver-109 at 14.3 MeV, conversion-electron anisotropy in, (E), 22:20645
reactions (p,2n) with holmium-165 at 16 MeV, γ spectra from, (E), 23:10936(R) (COO-535-591)
reactions (p,2n) with iodine-127 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in xenon-126 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with lanthanum-139 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in cerium-138 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with neptunium-237 at 13 MeV, ground-state cross section for, (E), 24:13349
reactions (p,2n) with neptunium-237, plutonium-240, and plutonium-242 at 8.8 to 13 MeV, cross sections for delayed fission in, (E), 24:13349
reactions (p,2n) with nitrogen-14 at 50 MeV, 21:30771
reactions (p,2n) with palladium-102 at 50 MeV, production of silver-101 by, (E), 22:1699
reactions (p,2n) with plutonium-239 at 13 to 14 MeV, production of spontaneously fissioning isomeric americium-238 by, (E), 21:46767
reactions (p,2n) with plutonium-240, fragment energy and mass distributions from isomers formed by, (E), 24:35871
reactions (p,2n) with plutonium-241 at 9.6 to 13.6 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:19243 (JINR-E7-3160)
reactions (p,2n) with plutonium-241 at 9.6 to 13.6 MeV, production of spontaneously fissioning isomeric americium-241 in, (E), 21:15576
reactions (p,2n) with praseodymium-141 and yttrium-89 at 10 to 15 MeV, threshold energies and cross sections for, (E), 25:12607
reactions (p,2n) with praseodymium-141 at 6 to 15 MeV, cross sections for, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with rhenium-187 at 14.3 MeV, anisotropy of conversion electrons from rotational levels in osmium-186 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with rhodium-103 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in palladium-102 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with samarium-147, production of isomeric europium-146 in, (E), 22:25664
reactions (p,2n) with silver-107 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in cadmium-106 populated by, (E), 21:33963(R) (NP-16498)
reactions (p,2n) with silver-109 at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in, 21:33963(R) (NP-16498)
reactions (p,2n) with tantalum-181 at 12 MeV, tungsten-180 isomeric levels from, (E), 21:23491
reactions (p,2n) with tantalum-181, production of isomeric tungsten-180 in, (E), 22:25664
reactions (p,2n) with tantalum-181, terbium-159, and thulium-169 at 16 MeV, conversion electron spectra from, (E), 23:46862 (COO-535-598)
reactions (p,2n) with terbium-159 at 17 MeV, γ spectra from, (E), 23:10936(R) (COO-535-591)
reactions (p,2n) with thulium-169 at 12 MeV, ytterbium-168 energy-level transitions from, 21:25562
reactions (p,2n) with tin-124 at 8 and 13 MeV, γ and conversion electron spectra from, (E), 25:50780
reactions (p,2n) with vibrational nuclei, excited level determination from conversion electrons from, (E), 21:1089
reactions (p,2n) with zirconium-96 at 400 MeV, isomeric ratio in, 25:36761
reactions (p,2n), (p,3n), (p,4n), and (p,p3n) with strontium-88 at 7 to 85 MeV, cross-section ratios for isomer production in, (E/T), 22:7684
reactions (p,2n), (p,3n), and (p,4n) with palladium-102, production of silver-99, silver-100, and silver-101 by, (E), 21:34016
reactions (p,2nγ) with holmium-165, lutetium-175, terbium-159, and thulium-169 at 16 and 21 MeV, cross sections for, (E/T), 25:12544
reactions (p,2nγ) with lutetium-175 at 12 MeV, energy levels of hafnium-174 from, (E), 25:20427
reactions (p,2nγ) with rare-earth isotopes, (T), 21:15577
reactions (p,2nγ) with tantalum-181, production of isomeric tungsten-180 in, (T), 21:15577
reactions (p,2p) and (p,np) with deuterium at 12 MeV, impulse-approximation analysis of coincidence spectra from, (E), 25:20260
reactions (p,2p) and (p,p3n) + (p,4n) with zinc-68 at 10 to 85 MeV, cross sections for, (E), 25:5623
reactions (p,2p) and (p,pd) with helium-3 at 35 MeV, energy spectra from, (E), 25:33954(R) (USC-136-X-1)
reactions (p,2p) and (p,pd) with nitrogen-14 at 46 MeV, quasi-elastic and sequential decay, (E), 25:22974
reactions (p,2p) and (p,pd) with tritium at 35 MeV, energy spectra from, (E), 25:33954(R) (USC-136-X-1)
reactions (p,2p) and (p,pn) with deuterium at 21.5 to 56.4 MeV, absolute cross sections for quasi-free scattering in, (E), 25:56640 (FRNC-CONF-8)
reactions (p,2p) and (p,pn) with nuclei, (T), 21:21577 (NP-16448)
reactions (p,2p) and (p,pn) with nuclei, shell-model theory for, (T), 24:40715
reactions (p,2p) wih deuterium at 24 MeV using polarized beams, cross-section asymmetry for, (E), 25:5506 (CEA-N-1232, pp 81-159)
reactions (p,2p) with 1p—shell nuclei at 155 to 185 MeV, spectroscopic factors for, (E/T), 21:31712
reactions (p,2p) with aluminum-27 at 460 MeV with quasielastic scattering, angular correlation distribution for, (E), 22:3784
reactions (p,2p) with argon-40 and sulfur-32 at 460 MeV, analysis for final state interaction in, 25:1732
reactions (p,2p) with beryllium-9 at 180 and 660 MeV, lithium-8 differential energy spectra and angular distributions for, (E), 25:25644
reactions (p,2p) with beryllium-9 at 180 and 660 MeV, lithium-8 energy spectra and angular distributions from, (E/T), 25:12378 (JINR-P1-4872)
reactions (p,2p) with beryllium-9, boron-10, boron-11, carbon-12, lithium-6, and lithium-7, spectroscopic factors for, (E/T), 22:26864
reactions (p,2p) with beryllium-9, lithium-6, and lithium-7 at 156 MeV, angular distributions and spectra from, (E), 21:15495
reactions (p,2p) with bismuth-209 at 44 MeV, proton spectra from, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,2p) with bismuth-209, calcium-40, cobalt-59, lead-208, nickel-58, scandium-45, and tin-120 at 385 MeV, analysis of differential cross sections using distorted momentum distributions, (E/T), 24:6867
reactions (p,2p) with boron-10, boron-11, and lithium-6 at 185 MeV, analysis using distorted-wave impulse approximation, (E/T), 23:25824
reactions (p,2p) with boron-11 at 150 and 600 MeV, use to determine age of cosmic rays from cross sections for beryllium-10 production in, (E), 25:53240
reactions (p,2p) with cadmium-112, cadmium-113, and cadmium-114 at 400 MeV, cross sections for, (E), 21:5503(R) (NYO-2897-17)
reactions (p,2p) with calcium, carbon, silicon, and vanadium at 600 MeV, (E), 25:17757
reactions (p,2p) with calcium-40 and carbon-12 at 156 MeV, analysis of angular distributions for distortion effects in, (E), 25:3565 (NP-18476)
reactions (p,2p) with calcium-40 and carbon-12 at 156 MeV, analysis using impulse approximation, (E/T), 25:17758
reactions (p,2p) with calcium-40 and carbon-12 at 600 MeV, separation energy spectra for, (E), 24:52439
reactions (p,2p) with calcium-40 at 45 MeV, p-p angular correlations from, (E), 25:38938
reactions (p,2p) with calcium-40, carbon-12, and silicon-28 at 600 MeV, distorted-wave impulse-approximation analysis of cross sections from, (E/T), 25:56711
reactions (p,2p) with calcium-40, carbon-12, and tin-120 at 385 MeV, distorted momentum distributions in, (E), 24:43182
reactions (p,2p) with calcium-40, carbon-12, cobalt-59, nickel-58, scandium-45, and tin-120 at 385 MeV, DWIA analysis of, (E), 24:52438
reactions (p,2p) with calcium-40, carbon-12, silicon-28, vanadium-51, and zirconium-90 at 600 MeV, separation-energy spectra and momentum distributions of residual nuclei from, (E), 25:56706
reactions (p,2p) with carbon-12 and calcium-40 at 156 MeV, coplanar and noncoplanar cross sections for, (E), 25:45942
reactions (p,2p) with carbon-12 and silicon-28 at 600 MeV, diffraction-model calculation of differential cross sections for, (T), 25:36679
reactions (p,2p) with carbon-12 and yttrium-89 in 50 MeV region, distorted wave analysis of, (T), 23:52179
reactions (p,2p) with carbon-12 at 1 GeV with quasielastic scattering, (E), 22:26831 (BNL-12344)
reactions (p,2p) with carbon-12 at 1 GeV, Glauber multiple scattering theory for differential cross sections for quasi-free, (T), 25:56520 (IC-71/106)
reactions (p,2p) with carbon-12 at 155 MeV, angular-distribution calculations using energy-dependent t-matrix, (T), 24:22089
reactions (p,2p) with carbon-12 at 160 MeV, (E), 21:1031
reactions (p,2p) with carbon-12 at 160 MeV, analysis using distorted-wave impulse approximation, (E/T), 23:25824
reactions (p,2p) with carbon-12 at 385 MeV, cross section measurements with high momentum resolution of, (E), 23:46914
reactions (p,2p) with carbon-12 at 45.5 MeV, energy and angular correlations in, (T), 21:2621 (AD-634869)
reactions (p,2p) with carbon-12 at 46 MeV, distorted-wave calculations of proton angular correlations for, (T), 23:3939 (UCLA-10-P-18-8)
reactions (p,2p) with carbon-12 at 46 MeV, distorted-wave calculations of proton angular correlations for, (T), 23:10928 (UCLA-10-P-18-10)
reactions (p,2p) with carbon-12 at 46 MeV, proton angular correlations and energy distributions from, (E), 21:38250
reactions (p,2p) with carbon-12 at 50 MeV, boron-11 energy levels from, (E), 21:23438
reactions (p,2p) with carbon-12 at 50 to 110 MeV, cross sections for coplanar and non-coplanar, (E), 22:1612
reactions (p,2p) with carbon-12, cross-section calculations using t-matrix formalism with local and nonlocal p-p effective interactions, (T), 22:27243
reactions (p,2p) with deformed 1d-2s shell nuclei, energy-level excitation in, (T), 21:2666
reactions (p,2p) with deformed nuclei, with quasielastic scattering, (T), 22:3784
reactions (p,2p) with deuterium and carbon-12 at 1 GeV, angular distributions for, (E), 24:13294
reactions (p,2p) with deuterium and helium-4 at 600 MeV, differential cross sections for, (E), 24:15786
reactions (p,2p) with deuterium and helium-4 at 600 MeV, differential cross sections for, (E), 24:52405
reactions (p,2p) with deuterium and helium-4 at 600 MeV, Born-approximation analysis of, (E/T), 25:38876
reactions (p,2p) with deuterium at 10 MeV, p—n final-state interaction in, (E), 23:7082
reactions (p,2p) with deuterium at 10.5 and 24 MeV using polarized beams, cross-section asymmetry for, (E), 24:52390
reactions (p,2p) with deuterium at 10.5 MeV, proton angular distribution and cross section asymmetry in polarized, (E), 24:43107
reactions (p,2p) with deuterium at 100 MeV, proton spectra and angular distributions from, (E), 25:12375
reactions (p,2p) with deuterium at 11 MeV, spectra from, (E), 21:40432 (WASH-1074)
reactions (p,2p) with deuterium at 14 to 46 MeV, analysis for p-p quasi-free scattering in, (E), 24:52392
reactions (p,2p) with deuterium at 14 to 57 MeV, energy dependence of quasifree scattering in, (E), 25:7802

reactions (p,2p) with deuterium at 15 to 50 MeV, energy dependence of quasi-free scattering in, (E), 25:25629(R) (UCD-CNL-125)
reactions (p,2p) with deuterium at 150 MeV, cross sections for, (E), 24:52395
reactions (p,2p) with deuterium at 155 MeV, analysis using first-order impulse approximation, (E/T), 23:25810
reactions (p,2p) with deuterium at 155 MeV, double scattering corrections to impulse approximation calculations for, (T), 23:25809
reactions (p,2p) with deuterium at 156 MeV, angular distributions and differential cross sections as test of impulse approximation, (E), 25:3554
reactions (p,2p) with deuterium at 156 MeV, cross sections for, (E), 22:26808
reactions (p,2p) with deuterium at 156 MeV, cross-section calculations including final-state-interaction effects, (T), 25:53524
reactions (p,2p) with deuterium at 156 MeV, differential cross sections for, (E), 25:17701
reactions (p,2p) with deuterium at 16 MeV, analysis for two-body parameters, (E/T), 22:26811
reactions (p,2p) with deuterium at 25 to 40 MeV, differential cross sections for, (E), 25:17703
reactions (p,2p) with deuterium at 28.6 MeV, differential cross section for, (E), 25:56644
reactions (p,2p) with deuterium at 35 MeV, cross section for, (E), 24:43115
reactions (p,2p) with deuterium at 38 to 50 MeV, Faddeev analysis of energy spectra from, (T), 25:45889
reactions (p,2p) with deuterium at 4.5 to 13 MeV, impulse-approximation analysis of n—p and p—p coincidence spectra and excitation functions for, (E/T), 25:36669
reactions (p,2p) with deuterium at 4.5 to 13.0 MeV, excitation functions and energy spectra from, (E), 25:5534
reactions (p,2p) with deuterium at 46 Mev, (E/T), 21:2616
reactions (p,2p) with deuterium at 46 MeV, angular and energy distributions for, (E), 22:26810
reactions (p,2p) with deuterium at 5 to 10 MeV, cross sections and n—p scattering length from, 23:39935
reactions (p,2p) with deuterium at 6.5 to 13 MeV, (E), 23:1882 (WASH-1093)
reactions (p,2p) with deuterium at 6.5 to 13 MeV, search for resonance in, (E), 23:15346(R) (ORO-1316-70)
reactions (p,2p) with deuterium at 7 to 14.5 MeV, analysis for helium-3 resonances in excitation function for, (E), 25:25724(R) (RLO-1388-121)
reactions (p,2p) with deuterium at 9 to 13 MeV, spectra from, (E), 25:3553
reactions (p,2p) with deuterium at 9.0 and 10.5 MeV, differential cross sections and proton energy spectra for, (E), 21:44546
reactions (p,2p) with deuterium, performance of counter telescopes operating with magnetic spectrometer for cross section measurements under twelve kinematical conditions in, 23:47793
reactions (p,2p) with helium-4 and carbon-12, angular distributions from, (T), 21:35432
reactions (p,2p) with iron-56 at 46 MeV, proton spectra from, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,2p) with light nuclei, analysis using pole graph method, (T), 24:1872
reactions (p,2p) with light nuclei, differential cross sections for, (T), 21:27658
reactions (p,2p) with lithium-6 at high energy, (E), 22:14116
reactions (p,2p) with lithium-6, angular correlations for, (T), 23:21376 (ZFK-130, pp 58-69)
reactions (p,2p) with lithium-6, angular correlation distributions and cross sections for, (T), 22:26885
reactions (p,2p) with lithium-6, cross section calculations using alpha—deuteron cluster model, (T), 21:40481
reactions (p,2p) with lithium-6, testing α-deuteron cluster model for lithium-6 by, (T), 22:32497
reactions (p,2p) with lithium-7, helium-6 energy levels from, (T), 21:2606
reactions (p,2p) with magnesium-24, silicon-28, and sodium-23 at 156 MeV, spectroscopic factors for, (T), 22:44647
reactions (p,2p) with magnesium-25 at 0.4 to 2.7 GeV, cross sections for, (E), 23:30980
reactions (p,2p) with magnesium-25 at 100 and 300 MeV, plane-wave impulse-approximation analysis of differential recoil spectra from, (E/T), 25:45977
reactions (p,2p) with magnesium-25 at 100 to 400 MeV, cross sections for, (E), 21:5503(R) (NYO-2897-17)
reactions (p,2p) with magnesium-25 at 300 MeV, recoil studies of, (E/T), 21:40397(R) (NYO-2897-22)
reactions (p,2p) with medium-weight nuclei at 156 MeV with quasielastic scattering, proton energy spectra and angular distributions from, (E), 22:1642
reactions (p,2p) with nitrogen-14 at 46 MeV, energy spectra and distorted-wave t-matrix approximation analysis of differential cross sections from, (E/T), 25:12391
reactions (p,2p) with nuclei at 0.16 to 1 GeV, description using distorted-wave impulse approximation, (T), 22:42128
reactions (p,2p) with nuclei at 387 MeV, design and performance of magnetic spectrometers for momentum analysis of, 24:2481
reactions (p,2p) with nuclei at 600 MeV, magnet—spark chamber system for studying, 25:17619
reactions (p,2p) with nuclei at high energy, interpretation of, (E/T), 21:17387 (ISS-66/40)
reactions (p,2p) with nuclei at medium energies, nuclear structure research from, 22:33187 (ISS-66/50)
reactions (p,2p) with nuclei, calculations of cross sections using distorted-wave t-matrix approximation, (T), 22:50696
reactions (p,2p) with nuclei, cross section expression for, (T), 25:15156
reactions (p,2p) with nuclei, data analysis using knockout model, (E/T), 23:9030 (TID-24667, pp 443-54)
reactions (p,2p) with nuclei, description using diproton model, 21:31838 (RHEL/R-136, pp 89-130)
reactions (p,2p) with nuclei, di-proton model for, (T), 21:1129
reactions (p,2p) with nuclei, effects of detector resolution on analysis of coplanar, (T), 21:23571
reactions (p,2p) with nuclei, energy levels and proton distributions from noncoplanar, (T), 21:23570
reactions (p,2p) with nuclei, off-shell effects in, (T), 25:12670
reactions (p,2p) with nuclei, review on nuclear structure research with, 24:47682
reactions (p,2p) with nuclei, study of hole states by, (E/T), 22:16071
reactions (p,2p) with nuclei, uncertainties in diproton-model calculations for, (T), 23:25976
reactions (p,2p) with nuclei, use in measurement of nucleon separation energies, (E/T), 21:25566 (ISS-67/2)
reactions (p,2p) with silicon-28 at 600 MeV, optical-model analysis of distortion effects on recoil momentum distributions from, (T), 25:53680
reactions (p,2p) with silicon-28 at 600 MeV, separation-energy spectra and aluminum-27 angular distributions from, (E/T), 25:22996
reactions (p,2p) with tin-118, production of isomeric indium-117 in, (E), 21:5554
reactions (p,2p) with tin-118, production of isomeric indium-117 in, (E), 21:5503(R) (NYO-2897-17)
reactions (p,2p) with yttrium-89 at 46 MeV, angular correlations for, (E), 23:28246(R) (USC-136-146)
reactions (p,2p) with yttrium-89 at 46 MeV, p—p angular correlation and energy distributions for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,2p) with yttrium-89 at 46 MeV, proton—proton ground-state angular correlations and cross sections for, (E), 23:37143
reactions (p,2p) with yttrium-89 at 46 MeV, proton angular correlations in, (E), 22:13927(R) (USC-136-132)
reactions (p,2p) with Z = 20 to 28 nuclei at 156 MeV, angular distributions and spectra from, (E), 21:15527
reactions (p,2p) with Z = 22, 26, and 28 nuclei at 100 to 500 MeV, proton spectra, excitation energies, and angular correlations for, (E), 25:5606(R) (UCSB-34-P-144-7)
reactions (p,2p), (p,pn), and (p,2n) with tellurium isotopes 122 through 130 at 300 MeV, cross sections for, (E), 23:40044
reactions (p,2p), (p,pn), and (p,2n) with tellurium isotopes at 300 MeV, cross sections for, (E), 23:37137(R) (NYO-2897-35)
reactions (p,2p5n) with cobalt-59, isomeric cross section ratio for, (E), 24:18384
reactions (p,2pn) with magnesium-26 at 100 to 400 MeV, cross sections for, (E), 21:5503(R) (NYO-2897-17)
reactions (p,2pn) with sulfur-34 at 50 MeV to 3 GeV, cross sections for, (T), 22:21356 (CEA-R-3376)
reactions (p,2pxn) with cesium-133 at 660 MeV, relative cross sections for production of xenon isotopes by, (E), 22:37363
reactions (p,2pxn) with light-weight nuclei at high energies, cross sections for, (E/T), 21:40397(R) (NYO-2897-22)
reactions (p,3α) with boron-11 at 0.15 to 4 MeV, resonance effects on, (E), 23:19197
reactions (p,3α) with boron-11 at 0.163, 0.68, 1.4, and 2 MeV, mechanism of, (E), 24:40555 (CEA-CONF-1498)
reactions (p,3α) with boron-11 at 0.2 to 2 MeV, sequential mechanism in, 25:17766
reactions (p,3α) with boron-11 at 0.68 to 2 MeV, analysis of reaction amplitude in, (T), 24:35833
reactions (p,3α) with boron-11 at 0.7, 1.0, and 1.4 MeV, analysis for reaction mechanism in, (E), 25:3589
reactions (p,3α) with boron-11 at 0.7, 1.4, and 2 MeV, analysis of α spectra from, (E/T), 24:52414 (CEA-R-3969)
reactions (p,3α) with boron-11 at 1.4 to 7.2 MeV with compound nucleus excitations, coincidence study of, (E/T), 23:25811 (CEA-R-3670)
reactions (p,3α) with boron-11 at 1.98 MeV, analysis of reaction mechanism in, (E/T), 24:33115
reactions (p,3α) with boron-11 at 150 to 235 keV and 2 to 5.3 MeV, α spectra from, (E), 25:38883 (JAERI-1205, pp 44-8)
reactions (p,3α) with boron-11 at 163 keV to 2.65 MeV, differential cross sections for, (T), 25:20275
reactions (p,3α) with boron-11 at 163 keV, mechanism of carbon-12* break-up in, (T), 24:13295
reactions (p,3α) with boron-11 at 2 MeV, multiparticle-reaction analysis of energy distributions from, (T), 25:28184
reactions (p,3α) with boron-11 at 2.65 MeV, resonances in, (E), 21:40375
reactions (p,3α) with boron-11 at 675 keV, α-α angular and energy correlations from, (E), 21:25459
reactions (p,3α) with boron-11 at 680 keV, alpha—alpha coincidence study of, (E), 24:35817
reactions (p,3α) with boron-11, analysis for carbon-12 decay mechanism using three-body partial waves, (T), 24:45750
reactions (p,3α) with boron-11, calculation of differential cross section of, (T), 24:13417
reactions (p,3α) with boron-11, continuous spectra from, (E), 21:15484 (CEA-R-3009)
reactions (p,3α) with boron-11, two-particle resonance narrowing in, (T), 24:22200
reactions (p,3α) with, analysis of 163-keV resonance in, (T), 24:45748
reactions (p,3n) and (p,4n) with palladium-102 at 10 to 50 MeV, production of silver-99 and -100 by, (E), 22:1698
reactions (p,3n) and (p,p2n) with cobalt-59, analysis using pre-equilibrium statistical model, (T), 24:26610
reactions (p,3n) with argon-40 at 29 to 48 MeV, production of isomeric potassium-38 in, (E), 21:13841
reactions (p,3n) with argon-40, production of isomeric potassium-38 by, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,3n) with germanium-70 at 30 to 55 MeV, cross sections for, (E), 25:59747
reactions (p,3n) with manganese-55, isomeric cross section ratio for, (E), 24:18384
reactions (p,3n) with tantalum-181 at 26 MeV, conversion electron spectra from, (E), 23:46862 (COO-535-598)
reactions (p,3n), (p,4n), and (p,5n) at 25 to 50 MeV, cross sections for, (E), 21:46723 (ORNL-4164, pp 1-23)
reactions (p,3nγ) with lutetium-175 at 20 to 40 MeV, γ spectra and excitation functions for, (E), 25:56796
reactions (p,3p) with lead-208 at 0.59 and 18 GeV, cross sections for, (E), 22:44691
reactions (p,3p3n) at 3 to 12.5 GeV with carbon-12, cross section for beryllium-7 production in, (E), 22:24536
reactions (p,3p3n) with nickel-58, isomeric cross section ratio for, (E), 24:18384
reactions (p,3pn) and (p,3p3n) with aluminum-27, effect of thick targets on monitoring proton beams by, 22:15895
reactions (p,3pn) with aluminum-27 at 660 MeV, angular distributions of recoil nuclei from, (E), 23:39981
reactions (p,3pn) with iron-54 at 50 MeV, gamma energy and half-life measurements on, 21:38265
reactions (p,4n) and (p,5n) with uranium-233 at 33 and 41 MeV, production of neptunium-229 and-230 by, (E), 22:35292 (ORNL-4217, pp 1-81)
reactions (p,4n) with gold-197 at 35 MeV, gamma angular distributions from, 21:1082 (UCRL-16987)
reactions (p,4n) with gold-197 at 50 and 55 MeV, conversion-electron spectra from, (E), 22:27165
reactions (p,4n) with manganese-55 at 65 MeV, production of iron-52 by, 25:54676
reactions (p,5n) with antimony-121 at 52 MeV, production of tellurium-117 isomers by, (E), 22:3729
reactions (p,5pxn) with cesium in cesium chloride and nitrate crystals, valence states of antimony produced by, 23:49844
reactions (p,6n) with gold-197, thallium-203, and thallium-205 at 50 and 55 MeV, conversion-electron spectra from, (E), 22:27165
reactions (p,anti He-3) with aluminum at 70 GeV, cross section for antihelium-3 production in, (E), 25:53021
reactions (p,α) 2α with boron-11 at 1.4 MeV, coincidence spectra for, (E), 23:15368
reactions (p,α) 2α with boron-11 at 2.65 MeV, analysis of three-alpha final state interaction using Faddeev method, (T), 25:20300
reactions (p,α) and (p,3α) with boron-11 at 163 keV, cross sections and alpha spectra from, (E), 25:20270 (NP-18626)
reactions (p,α) and (p,α) with fluorine 19, effects of excited states on, (E), 23:44040
reactions (p,α) and (p,d) with beryllium-9, ground-state Q-values for, (E), 21:35411
reactions (p,α) and (p,d) with lithium-6 at 0.3 to 1.3 MeV using polarized and unpolarized beams, analyzing power and angular distributions in, (E), 25:53633
reactions (p,α) and (p,d) with nickel-62 at 14 MeV, α and deuteron evaporation spectra from, (E), 25:53663(R) (COO-1505-48)
reactions (p,α) and (p,γ) with aluminum-27 at 1.7 MeV, excitation functions for, (E), 25:20330
reactions (p,α) and (p,γ) with boron-11 at 162 keV, cross sections for polarized protons, (E), 21:5593
reactions (p,α) and (p,γ) with boron-11, effect of proton polarization on, (T), 21:2640
reactions (p,α) and (p,γ) with oxygen-17 at 5.8 to 7.1 MeV, energy spectra and angular correlations and distributions for, (E), 25:43812
reactions (p,α) and (p,γ) with phosphorus-31 at 3.150 to 3.300 MeV, excitation functions for, (E), 25:17774 (NP-18623)
reactions (p,α) and (p,γ) with potassium-39 at 2.8 to 6.1 MeV, calcium-40 energy levels from, (E), 22:11937
reactions (p,α) and (p,γ) with sodium-23 at 1 to 1.8 MeV, analysis of resonances in, (E), 25:20325
reactions (p,α) and (p,He-3) at 40 MeV, angular distributions for, (E), 25:50643
reactions (p,α) and (p,He-3) with fluorine-19 at 30.5 MeV, (E), 21:7708
reactions (p,α) and (p,He-3) with lithium-6 at 45 MeV, energy spectra from, (E), 24:52417
reactions (p,α) and (p,He-3) with lithium-6 at 45 MeV, α and helium-3 spectra from, (E), 25:45922
reactions (p,α) and (p,He-3) with niobium-93, (E/T), 22:13927(R) (USC-136-132)
reactions (p,α) and (p,He-3) with nitrogen-14 at 30 MeV, spectra for, (E), 22:13927(R) (USC-136-132)
reactions (p,α) and (p,He-3) with nitrogen-14 at 6 to 12 MeV, cross sections and spectra for, (E), 22:11949(R) (ORO-2972-47)
reactions (p,α) and (p,n) with boron-10 at 4 to 12 MeV, isobaric spin effects in, (E), 21:25434
reactions (p,α) and (p,n) with cerium-142, excitation functions for, (E), 21:13866
reactions (p,α) and (p,n) with oxygen-18 at 2.5 to 3.0 MeV, fluorine-19 isobaric analog levels from, (E), 21:31725
reactions (p,α) and (p,n) with oxygen-18 at 3 to 7 MeV, excitation functions for, (E), 23:49327 (ANU-P-448)
reactions (p,α) and (p,n) with oxygen-18 at threshold to 3.2 MeV, yields for, (E), 22:22560(R) (ORO-1067-2)
reactions (p,α) and (p,n) with oxygen-18 from threshold to 3.2 MeV, yield curves for, (E), 23:1882 (WASH-1093)
reactions (p,α) and (p,n) with titanium-46 at 18 MeV, production of isomeric scandium-43 and vanadium-46 by, (E), 21:33917

reactions (p,α) and (p,t) with lithium-7, cross sections and spectra for, (E), 22:20578 (WASH-1079)
reactions (p,α) at 0.628 and 1.766 MeV, development of instrument for measuring cross sections of, 21:32528
reactions (p,α) with aluminum-27 at 1.1 to 1.9 MeV to ground state, angular distributions and resonance strengths for, (E), 23:3977
reactions (p,α) with aluminum-27 at 1.5 to 2.6 MeV, angular distributions for, (E), 24:52471 (NP-18361)
reactions (p,α) with aluminum-27 at 1.6 to 2.6 MeV, resonance strengths in, (E), 24:43286
reactions (p,α) with aluminum-27 at 10.9 to 19.7 MeV, fluctuation analysis of excitation functions for, (E), 22:26933
reactions (p,α) with aluminum-27 at 11 to 20 MeV, cross-section fluctuations in, (E), 22:20545
reactions (p,α) with aluminum-27 at 2.3 to 3.4 MeV, angular distributions and excitation functions for, (E), 23:13231
reactions (p,α) with aluminum-27 at 3.5 to 4 MeV, excitation functions for, (E), 24:15829
reactions (p,α) with aluminum-27 at 4 to 5.5 MeV, excitation functions for, (E), 24:6869
reactions (p,α) with aluminum-27 at 4 to 5.5 MeV, excitation functions for, (E), 23:28243(R) (BARC-364)
reactions (p,α) with aluminum-27 at 4.0 to 5.5 MeV, cross sections for, (E), 22:7569(R) (BARC-291)
reactions (p,α) with aluminum-27 at 4.0 to 5.5 MeV, correlations of excitation functions for, (E), 22:27060
reactions (p,α) with aluminum-27 at 4.0 to 5.5 MeV, calculations using fluctuation theory, (T), 21:7722(R) (AEET-254)
reactions (p,α) with aluminum-27 at 4.0 to 5.5 MeV, excitation functions for, (E), 23:19208
reactions (p,α) with aluminum-27 at 41.3 MeV, angular distributions and spectroscopic factors for, (E), 23:40010
reactions (p,α) with aluminum-27 at 6.4 MeV, fluctuation analysis of excitation function for, (E/T), 22:11923
reactions (p,α) with aluminum-27 at 8 to 10 MeV, statistical-model analysis of, (E/T), 24:1802
reactions (p,α) with aluminum-27 at 9 to 12 MeV, excitation function for, (E), 22:20543
reactions (p,α) with aluminum-27, (E), 21:7722(R) (AEET-254)
reactions (p,α) with aluminum-27, carbon-12, fluorine-19, magnesium-24, neon-20, nitrogen-14, and oxygen-16 at 40 MeV, differential cross sections for, (E), 22:1598(R) (COO-1265-49)
reactions (p,α) with aluminum-27, carbon-12, fluorine-19, magnesium-24, neon-20, nitrogen-14, and oxygen-16 at 40 MeV, angular distributions and cross sections for, (E), 22:24849
reactions (p,α) with aluminum-27, chlorine-35, chlorine-37, phosphorus-31, and sodium-23 at 200 to 850 keV, (E), 21:11986 (NP-16461)
reactions (p,α) with aluminum-27, differential cross sections for, (E), 22:29970
reactions (p,α) with aluminum-27, excitation functions for, (E), 21:44623
reactions (p,α) with aluminum-27, testing time-reversal invariance by, (E), 21:38262
reactions (p,α) with argon-36 at 12 MeV, alpha spectra from, (E), 24:52538
reactions (p,α) with argon-40 at 1.8 to 4.4 MeV, differential cross sections for, (E), 24:20363
reactions (p,α) with argon-40 at 1.81 to 4.35 MeV, excitation function for, (E), 22:44660
reactions (p,α) with argon-40 at 3.5 to 6.0 MeV, potassium-40 energy levels from, (E), 21:44648
reactions (p,α) with arsenic-75, indium-115, rhodium-103, silver-107, silver-109 and yttrium-89 at 5 to 13 MeV, excitation functions for, (E), 25:28268
reactions (p,α) with beryllium-9 at 0.8 to 1.5 MeV, analysis of mechanism for, (T), 24:38097 (CEA-CONF-1499)
reactions (p,α) with beryllium-9 at 45 MeV, finite-range DWBA analysis of, (T), 25:53613
reactions (p,α) with beryllium-9 at 5.2 and 6.2 MeV, differential cross sections for, (E), 21:44582
reactions (p,α) with beryllium-9, boron-11, carbon-12, fluorine-19, and oxygen-16 at 25 to 45 MeV, direct mechanisms for, (E), 24:30697
reactions (p,α) with beryllium-9, boron-11, carbon-12, fluorine-19, and oxygen-16 at 38 MeV, PWBA analysis of angular distributions for, (E), 23:19195
reactions (p,α) with beryllium-9, boron-11, carbon-12, fluorine-19, nitrogen-14, and oxygen-16 at 38 MeV, differential cross sections for, (E), 22:26893
reactions (p,α) with beryllium-9, DWBA analysis with direct and exchange modes, (T), 23:4057
reactions (p,α) with beryllium-9, mechanism in, 25:17765
reactions (p,α) with bismuth-209 and indium-115, analysis for cluster knock-out mechanism in, (E), 24:43440
reactions (p,α) with boron-11 at 1 MeV, alpha spectra from, (E), 24:45737
reactions (p,α) with boron-11 at 1 to 12 MeV, analysis using plane-wave direct reaction formalism, (T), 22:35240
reactions (p,α) with boron-11 at 1.4 MeV, resonances in, (E), 22:37340(R) (EANDC(E)-89(U))
reactions (p,α) with boron-11 at 10 to 16 MeV, excitation functions for, (E), 24:43136
reactions (p,α) with boron-11 at 12 to 30 MeV, plane wave analysis of, (E), 25:17752
reactions (p,α) with boron-11 at 12 to 30 MeV, PWBA analysis of differential cross sections for, (E), 25:38891
reactions (p,α) with boron-11 at 163 keV, three-body carbon-12 disintegration in, (E), 21:31708 (CEA-R-3160)
reactions (p,α) with boron-11 at 2.4 to 3 MeV, α-α coincidence spectra from, (E), 25:5680 (CEA-N-1232, pp 1-80)
reactions (p,α) with boron-11 at 2.65 MeV, three-α final state interactions in, (T), 25:17769
reactions (p,α) with boron-11 at 3.5 to 10.5 MeV, excitation functions for, (E), 24:33111 (CONF-680461-10)
reactions (p,α) with boron-11 at 40 MeV, α spectra for, (E), 23:32893(R) (ORNL-4404)
reactions (p,α) with boron-11 at 670-keV resonance, (E), 22:26835
reactions (p,α) with boron-11 at 7 MeV, angular distributions and resonance widths for, (E), 23:10952
reactions (p,α) with boron-11, interference effects in, (T), 24:3866
reactions (p,α) with boron-11, use in channeling study of boron implantations in silicon, 24:19957
reactions (p,α) with calcium-40, potassium-37 energy levels from, (E), 21:44636
reactions (p,α) with calcium-40, potassium-37 energy-level parameters from, (E), 21:33900 (AD-654156)
reactions (p,α) with calcium-42 at 10.6 to 11.1 MeV, potassium-39 energy levels from, (E), 22:15986
reactions (p,α) with calcium-42, scandium-45, titanium-46, and titanium-50 at 18 MeV, α angular distributions and spectra from, (E), 21:38377(R) (PUC-937-260)
reactions (p,α) with carbon-12 and carbon-14 at 18 MeV, cross section evaluations, 21:7697
reactions (p,α) with carbon-12 at 14 to 17 MeV, angular distributions for, (E), 24:45735
reactions (p,α) with carbon-12 at 17 to 22 MeV, excitation functions for, (E), 22:26909
reactions (p,α) with carbon-12 at 17 to 22 MeV, excitation functions for, (E), 24:13301
reactions (p,α) with carbon-12 at 44.5 MeV, DWBA analysis using combined square-well and harmonic-oscillator potentials, (T), 22:53115
reactions (p,α) with carbon-12 at 660 MeV, intranuclear-cascade-model calculations of angular distributions from, (T), 25:20268 (JINR-P4-5479)
reactions (p,α) with carbon-12, α yields for, (E), 23:23642
reactions (p,α) with carbon-12, fluorine-19, and lithium-7 at 30.5 to 45.1 MeV, differential cross sections for, (E), 21:23424
reactions (p,α) with carbon-13 at 11.67 MeV, excitation of T = 1 compound-nucleus state in, (E), 23:15346(R) (ORO-1316-70)
reactions (p,α) with carbon-14 at 2.0 to 3.6 MeV, differential cross sections for, (E), 22:18158
reactions (p,α) with chlorine-35 and -37 at 4.0 to 7.8 MeV, fluctuation analysis of, (E), 22:11949(R) (ORO-2972-47)
reactions (p,α) with chlorine-35 and chlorine-37 at 4 to 7 MeV, excitation functions for, (E), 21:13796(R) (ORO-2972-25)
reactions (p,α) with chlorine-35 and chlorine-37, statistical analysis of angular distributions for, (T), 22:26950
reactions (p,α) with chlorine-35 at 0.83 to 2.93 MeV, argon-36 energy levels from, (E), 22:20525
reactions (p,α) with chlorine-35, cross sections for, (E), 22:1634
reactions (p,α) with chlorine-37 at 0.85 to 1.95 MeV, argon-38 energy-level spins and transitions from, (E), 21:13845
reactions (p,α) with chlorine-37 at 11 to 12 MeV, angular distributions and excitation functions for, (E), 21:1057
reactions (p,α) with chlorine-37, argon-38 isobaric analog states in, (E), 21:7742
reactions (p,α) with chromium-54 at 6.5 to 20 MeV, angular distributions and excitation functions for, (E), 24:24545
reactions (p,α) with chromium-54 at 9.3 to 10.1 MeV, statistical model analysis of fluctuations in, (E/T), 24:1787
reactions (p,α) with cobalt-59 and nickel-58 at 41.3 MeV, angular distributions for, (E), 24:43283
reactions (p,α) with cobalt-59 and nickel-62 at 13.0 MeV, cross sections and spectra from, (E), 25:41230(R) (NYO-3938-4)
reactions (p,α) with cobalt-59 and nickel-62 at 13 MeV, cross sections and spectra for, (E), 25:45992
reactions (p,α) with cobalt-59 at 14 MeV, α spectra from, (E), 25:53663(R) (COO-1505-48)
reactions (p,α) with cobalt-59 at 21 MeV, effects of angular momentum on compound-nucleus formation and decay in, (E), 22:53150
reactions (p,α) with cobalt-59 at 9 and 11 MeV, alpha spectra and Q-value for, (E), 21:33901 (ANL-7289)
reactions (p,α) with cobalt-59, manganese-55, and nickel-62, excitation functions for, (E), 22:39635(R) (NYO-3938-1)
reactions (p,α) with cobalt-59, manganese-55, and nickel-62 at 6 to 13.5 MeV, excitation functions for, (E), 24:6878
reactions (p,α) with cobalt-59, manganese-55, and vanadium-51 at 12 MeV, alpha angular distributions from, (E), 21:23461
reactions (p,α) with copper isotopes, nickel isotopes, and zinc isotopes at 9.5 to 10.5 MeV, (E), 21:15540
reactions (p,α) with copper-63, copper-65, nickel-58, nickel-60, zinc-64, and zinc-66 at 10 MeV, testing compound statistical model by, (E/T), 21:13828
reactions (p,α) with fluorine-19 and nitrogen-15 at resonance energies, triple angular correlation measurements on, (E), 23:10937(R) (COO-1120-78)
reactions (p,α) with fluorine-19 at 1.9 to 4.2 MeV, angular distributions for, (E), 23:28242(R) (ANU-P-434)
reactions (p,α) with fluorine-19 at 1.9 to 4.2 MeV, excitation functions and γ spectra for, (E), 22:32513(R) (ANU-P-400)
reactions (p,α) with fluorine-19 at 2.0 to 3.6 MeV, α spectra and excitation functions for, (E), 23:28243(R) (BARC-364)
reactions (p,α) with fluorine-19 at 2.0 to 3.6 MeV, excitation functions for, (E), 23:19166
reactions (p,α) with fluorine-19 at 2.1, 2.4, and 3.3 MeV, γ—γ coincidence spectra for, (E), 22:50532
reactions (p,α) with fluorine-19 at 2.2 to 3.4 MeV, angular distributions and excitation functions for, (E/T), 21:7698
reactions (p,α) with fluorine-19 at 5.28 MeV, oxygen-16 energy-level transitions and widths from, (E), 21:4222
reactions (p,α) with fluorine-19 at 7.4 MeV, oxygen-16 energy levels from, (E), 21:29890
reactions (p,α) with fluorine-19 at 873 and 1374 keV, α—γ angular distributions in, (E), 24:43128
reactions (p,α) with fluorine-19 to oxygen-16 ground state, analysis using three-nucleon pickup DWBA formalism, (T), 22:35233
reactions (p,α) with fluorine-19, angular distributions from, (E), 21:17886
reactions (p,α) with fluorine-19, nitrogen-14, and neon-20 at 41 MeV, (E), 21:5435(R) (TID-23395)
reactions (p,α) with fluorine-19, resonance energy measurement using absolute velocity gauge method, (E), 21:38234 (LA-DC-8856)
reactions (p,α) with gallium-69 at 10 MeV, α spectra from, (E), 21:38285
reactions (p,α) with germanium-70 and zinc-64 at 12 MeV, α spectra from, (E), 21:38273
reactions (p,α) with lead-208 at 16.475 MeV, alpha spectra and angular distributions from, (E), 25:31383
reactions (p,α) with lead-208 at 35 MeV, α spectra for, (E), 23:52120 (UCRL-18667, pp 65-132)
reactions (p,α) with light deformed nuclei, (E), 21:46491(R) (COO-1371-43)
reactions (p,α) with lithium-6 and -7 at 130 to 561 keV, angular distributions and total cross sections for, (E), 25:22980
reactions (p,α) with lithium-6 and lithium-7 at 23 to 50 keV, cross sections for, (E), 21:23418
reactions (p,α) with lithium-6 at 20 MeV, α spectra from, (E), 22:1598(R) (COO-1265-49)
reactions (p,α) with lithium-6 at 20 MeV, α spectra for, (E), 23:15360
reactions (p,α) with lithium-6 at 300 to 1000 keV, angular distributions and total cross sections for, (E), 22:46717 (CEA-R-3428)
reactions (p,α) with lithium-6 at 40 to 130 keV, angular distributions for, (E), 24:10936
reactions (p,α) with lithium-6, cross sections and resonance parameters for, (T), 22:44609
reactions (p,α) with lithium-6, lithium-7, and fluorine-19 at 1.35 MeV, differential cross sections for, (E), 23:19155
reactions (p,α) with lithium-7 at 0.5 to 7 MeV, effects of proton polarization on, (E/T), 22:3619
reactions (p,α) with lithium-7 at 0.8 to 3.0 MeV, alpha angular distributions from, using polarized protons, (E), 22:29916
reactions (p,α) with lithium-7 at 130 keV, angular distribution of α energy from, (E), 23:3956
reactions (p,α) with lithium-7 at 2.7 to 10.6 MeV using polarized beams, differential cross sections and analyzing power for, (E), 23:19194
reactions (p,α) with lithium-7 at 3 to 10 MeV, use for polarization analysis, (E/T), 22:26848
reactions (p,α) with lithium-7 at 440-keV resonance, (E), 22:26835
reactions (p,α) with lithium-7 at 7.4 to 10.4 MeV, angular distribution of polarization in, (E), 22:13936
reactions (p,α) with lithium-7 at 80 to 210 keV, α yields and Q-value for, (E), 21:42569
reactions (p,α) with lithium-7 at 9.1 MeV, alpha spectra from, (E), 24:35813
reactions (p,α) with lithium-7 at 9.1 MeV, analysis of final-state interactions in, (E), 24:33116
reactions (p,α) with lithium-7 at low energies, preparations for student exercise on, 23:39957
reactions (p,α) with lithium-7 up to 7 MeV, R-matrix analysis of, (E/T), 25:43829
reactions (p,α) with lithium-7, multi-level R-matrix analysis of, (T), 25:28452 (NP-18717)
reactions (p,α) with lithium-7, system for proton polarization measurements using, 23:23589
reactions (p,α) with magnesium-24 at 17.5 MeV, α spectra from, (E), 24:43282
reactions (p,α) with magnesium-24 at 17.5 MeV, α-γ angular correlations of, (E), 24:20375
reactions (p,α) with magnesium-26 and chlorine-37, cross-section fluctuations for, (E/T), 21:44606 (ZFK-122, pp 279-87)
reactions (p,α) with magnesium-26 at 11.00 to 13.26 MeV, sodium-23 energy-level spins from, (E), 21:38261
reactions (p,α) with magnesium-26 at 9 to 13 MeV, angular distributions and excitation functions for, (E), 21:1057
reactions (p,α) with manganese-55 at 12 MeV, α spectra from, (E), 21:38285
reactions (p,α) with manganese-55, phosphorus-31, and vanadium-51, excitation functions and alpha spectra for, (E), 21:33901 (ANL-7289)
reactions (p,α) with nickel-58 at 9 to 10 MeV, intermediate resonance parameters for, (T), 22:27065
reactions (p,α) with nickel-58, -60, -62, and -64 at 10 MeV, angular distributions and excitation functions for, (E), 22:32513(R) (ANU-P-400)
reactions (p,α) with nickel-60, -62, and -64 at 9.5 to 10.5 MeV, alpha spectra from, (E), 23:34753
reactions (p,α) with nickel-60, nickel-62, and nickel-64 at 9.5 to 10.5 MeV, α spectra for, (E), 23:32906 (ANU-P-421)
reactions (p,α) with nickel-62 at 14 MeV, angular distributions for, (E), 25:53663(R) (COO-1505-48)
reactions (p,α) with nickel-62 at 14.3 MeV, angular distributions and spectra for, (E), 22:20544
reactions (p,α) with nickel-62 at 14.3, α angular distributions and spectra for, (E), 22:3652
reactions (p,α) with nickel-64 at 10 MeV, alpha and gamma spectra from, (E), 25:17810

reactions (p,α) with niobium-93 at 4.7 to 6.2 MeV, isospin-forbidden resonances in, (E), 24:43326
reactions (p,α) with nitrogen-14 and oxygen-16 from fast neutron reactions, average cross sections for, (E), 22:26932(R) (NP-17434)
reactions (p,α) with nitrogen-14 and oxygen-16, recoil, (E), 21:19190
reactions (p,α) with nitrogen-14 at 15 MeV, uses of, for activation analysis of graphite for nitrogen traces, 21:5807
reactions (p,α) with nitrogen-14 at 3.7 to 5.7 MeV, angular distributions for, (E), 23:30959
reactions (p,α) with nitrogen-14 at 4.9 to 5.5 MeV, differential cross sections for, (E), 21:42559 (ORNL-TM-1926)
reactions (p,α) with nitrogen-14 at 5 to 24 MeV, excitation functions for, (E), 25:43818
reactions (p,α) with nitrogen-14 at 5.0 to 5.6 MeV, angular distributions for, (E), 22:35293(R) (ORNL-4230)
reactions (p,α) with nitrogen-14 at 6 to 11.5 MeV, angular distributions and total cross sections for, (E), 21:13796(R) (ORO-2972-25)
reactions (p,α) with nitrogen-14, production of carbon-11 by, 24:235
reactions (p,α) with nitrogen-14, reactions with fluorinated ethanes of recoil carbon-11 from, 23:9448
reactions (p,α) with nitrogen-15 at 0.4 to 1.9 MeV, cross section for, (E), 22:32507
reactions (p,α) with nitrogen-15 at 6.70 to 15.16 MeV, angular distributions and excitation functions for, (E), 21:25452
reactions (p,α) with nuclei, analysis for α-cluster probability by, (T), 25:50854
reactions (p,α) with oxygen-15 at 16 MeV, internal bremsstrahlung spectra for, (T), 25:12694
reactions (p,α) with oxygen-16 at 13.9 to 14.1 MeV, excitation functions for, (E), 24:43171
reactions (p,α) with oxygen-18 at 1.4 to 3.2 MeV, excitation functions for, (E), 23:49338
reactions (p,α) with oxygen-18 at 1.4 to 3.2 MeV, excitation functions for, (E), 24:45732
reactions (p,α) with oxygen-18 at 1.4 to 3.2 MeV, yield curve for, (E), 22:20578 (WASH-1079)
reactions (p,α) with oxygen-18 at 3.2 to 5.4 MeV, excitation functions for, 23:28266
reactions (p,α) with oxygen-18 at 500 to 750 keV, excitation function for, (E), 25:55384
reactions (p,α) with oxygen-18 at 870 keV for oxygen determination in zirconium welds and oxygen—titanium systems, 23:21657
reactions (p,α) with oxygen-18, use to measure depth distribution of oxygen-ion implants in gallium phosphide, 25:43447
reactions (p,α) with palladium-108 at 15 MeV, angular distributions for, (E), 25:15022
reactions (p,α) with palladium-108, silver-107, and silver-109 at 12 and 15 MeV, angular distributions for, (E), 25:3701
reactions (p,α) with phosphorus-31 at 1 to 2 MeV, differential cross sections and spectra for, (E), 22:20516
reactions (p,α) with phosphorus-31 at 1 to 5.5 MeV, differential cross sections and energy levels of sulfur-32 from, (E), 21:23452
reactions (p,α) with phosphorus-31 at 1 to 5.7 MeV, angular distributions for, (E), 21:13796(R) (ORO-2972-25)
reactions (p,α) with phosphorus-31 at 1.0 to 3.8 MeV, angular distribution for, (E), 22:24841
reactions (p,α) with phosphorus-31 at 1.4 to 1.9 MeV, sulfur-32 energy levels from, (E), 21:46699
reactions (p,α) with phosphorus-31 at 1.4 to 1.9 MeV, angular distributions and excitation functions for, (E), 21:25487
reactions (p,α) with phosphorus-31 at 8 to 12 MeV, excitation functions for, (E), 23:7262
reactions (p,α) with phosphorus-31 at 8.5 to 12.3 MeV, fluctuation analysis of, (E), 22:11929
reactions (p,α) with phosphorus-31, spin mixing in entrance channels for, (E/T), 22:48506
reactions (p,α) with potassium-39 at 1.75 to 3.23 MeV, excitation functions and angular distributions from, (E), 25:12437
reactions (p,α) with potassium-39 at 3 to 4 MeV, (E), 21:2701
reactions (p,α) with potassium-39 at 6.3 to 6.7 MeV with isobaric analog excitation, excitation functions for, (E), 23:37152
reactions (p,α) with potassium-41 at 1.17 to 2.10 MeV, resonances in, (E), 24:49844
reactions (p,α) with potassium-41 at 1550 to 2000 keV, angular distributions and excitation functions for, (E), 23:21306
reactions (p,α) with potassium-41 at 2.1 to 2.5 MeV, angular distributions and excitation functions for, (E), 22:15976
reactions (p,α) with potassium-41 at 7.5 MeV, α spectra and ground-state Q-value for, (E), 23:1871
reactions (p,α) with scandium-45 at 8.5 to 9.4 MeV, angular distributions and excitation functions for, (E), 21:1057
reactions (p,α) with silver-107 and -109, use of blocking effect for measurement of compound-nucleus lifetime in, (T), 24:33163
reactions (p,α) with silver-107 at 12 MeV, alpha spectra from, (E), 24:15922
reactions (p,α) with silver-107, effects of compound-nucleus lifetime on angular distributions from, (T), 24:30952
reactions (p,α) with silver-109, angular distributions for, (E), 24:22171
reactions (p,α) with sodium-23 at 2.2 to 4.5 MeV, angular distributions and excitation functions for, (E), 22:22570
reactions (p,α) with sodium-23 at 3.8 to 4.2 MeV, excitation function for, (E), 21:40429(R) (RLO-1388-23)
reactions (p,α) with sodium-23 at 45.5 MeV, angular distributions and spectroscopic factors for, (E), 23:40010
reactions (p,α) with sodium-23 at 590 to 1810 keV, angular distributions from, (E), 25:28259
reactions (p,α) with sodium-23, silicon-30, magnesium-26, phosphorus-31, and aluminum-27 at 5.8 to 11.5 MeV, (E), 25:17726
reactions (p,α) with vanadium-50 at 7.5 and 12 MeV, cross sections for, (E), 23:34765
reactions (p,α) with vanadium-51 at 2.5 to 5.5 MeV, (E), 21:7722(R) (AEET-254)
reactions (p,α) with vanadium-51 at 2.5 to 5.5 MeV, excitation functions for, (E), 21:17340(R) (AEET-267)
reactions (p,α), (p,d), (p,He-3), and (p,t) with iron-54 at 61 MeV, differential cross sections for, (E), 21:46643(R) (ORNL-4134)
reactions (p,α), (p,d), (p,t), and (p,He-3) with bismuth-209, carbon-12, and iron-54 at 60 MeV, differential cross sections for, (E), 22:41952 (ORNL-4274)
reactions (p,α), (p,d), (p,t), and (p,He-3) with gold and silver at 156 MeV, direct and indirect mechanisms for, (E/T), 22:7703(T) (ORNL-tr-1831)
reactions (p,α), (p,d), and (p,He-3) with boron-10, cross sections for, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,α), (p,d), and (p,t) with oxygen-16 at 20 to 40 MeV, excitation functions for, (E/T), 24:28705 (UCLA-10-P-18-16)
reactions (p,α), (p,d), and (p,t) with oxygen-16 at 21.3 to 38.5 MeV, excitation functions for, (E), 25:33994
reactions (p,α), (p,d), and (p,t) with oxygen-16 at 21.25 to 38.50 MeV, excitation functions for, (E/T), 25:17735
reactions (p,α), (p,γ), and (p,n) with potassium-41 at 1.40 to 1.75 MeV, resonances in, (E), 22:13962
reactions (p,α), (p,γ), and (p,p) with phosphorus-31 at 2114 keV, compound nucleus decay from, (E/T), 24:52541
reactions (p,α), (p,He-3), (p,Li-6), and (p,Li-7) with scandium-45 at 45 MeV, differential cross sections for, (E), 25:33954(R) (USC-136-X-1)
reactions (p,α), (p,t), and (p,He-3) with fluorine-19 at 30 MeV, distorted-wave analysis of angular distributions for, (E/T), 22:13927(R) (USC-136-132)
reactions (p,α)2α with boron-11 at 0.163 to 2 MeV, system for two-dimensional analysis of, (E), 22:3605 (CEA-R-3270)
reactions (p,α)2α with boron-11 at 2.65 MeV, α-α coincidence spectra from, (E), 22:3631
reactions (p,α)2α with boron-11 at 6.4 to 7.9 MeV, alpha spectra from, (E), 21:23423
reactions (p,α)2α with boron-11, analysis for reaction mechanism in, (T), 25:31218
reactions (p,α)2α with carbon-12 at 163 keV, (T), 21:17309
reactions (p,αd) with lithium-6 at 45 MeV, α-d coincidence spectra from, (E), 25:45922
reactions (p,αd) with lithium-6 at 45 MeV, α-d coincidence spectra from, (E), 24:52417
reactions (p,$\alpha\gamma$) with fluorine-19 at 1.9 to 4.16 MeV, total cross sections for, (E), 23:32899 (ANU-P-450)
reactions (p,$\alpha\gamma$) with fluorine-19 impurities in Zircaloy, analytical uses of, 21:25777
reactions (p,$\alpha\gamma$) with fluorine-19, determination of fluorine by prompt γ radiation from, 23:19677
reactions (p,$\alpha\gamma$) with nickel-64, γ angular correlations from, (E), 24:28729 (ANU-P-480)
reactions (p,$\alpha\gamma$) with nitrogen-15 at 0.9 to 1.6 MeV, α-γ angular correlations for, (E), 24:3897
reactions (p,$\alpha\gamma$) with nitrogen-15 at 0.9 to 1.6 MeV, α-γ angular correlations for, (E), 23:49328 (ANU-P-458)
reactions (p,$\alpha\gamma$) with sodium-23 at 1 to 1.5 MeV, α-γ angular correlations from, (E), 24:38178
reactions (p,$\alpha\gamma$) with sodium-23 at 1.1 to 1.5 MeV, α—γ angular correlations in, (E), 25:12443
reactions (p,$\alpha\gamma$) with sulfur-32 at 11.72 to 13.02 MeV, excitation functions, alpha and gamma spectra, and α—γ angular correlations from, (E), 25:12480
reactions (p,$\alpha\gamma$) with sulfur-32 at 14 MeV, angular correlations in, (E), 25:20323
reactions (p,αxn) and (p,pαxn) with bismuth isotopes at 30 to 140 MeV, production of lead isotopes and thallium isotopes by, (E), 21:4298
reactions (p,Be-8) at fluorine-19 at 2.5 to 6 MeV, excitation functions for, (E), 24:43166
reactions (p,d) 2α with beryllium-9 at 9 MeV, (E), 23:1882 (WASH-1093)
reactions (p,d) and (p,α) with beryllium-9 at 0.20 to 2.5 MeV, differential cross sections for, (E), 25:17723
reactions (p,d) and (p,α) with beryllium-9 at 300 to 900 keV, angular distributions and excitation functions for, (E), 23:10935 (CEA-R-3575)
reactions (p,d) and (p,α) with beryllium-9, Q-value for, (E), 23:21249
reactions (p,d) and (p,He-3) with tritium at 13.6 MeV, angular distributions for, (E), 25:28164 (LA-4576)
reactions (p,d) and (p,He-3) with tritium at 13.600 MeV, differential cross sections for, (E), 25:45900
reactions (p,d) and (p,n) with tritium at 14 MeV, angular distributions for, (E), 22:20578 (WASH-1079)
reactions (p,d) and (p,np) with helium-3 and helium-4 at 30 and 50 MeV, cross sections for, (E), 24:4877
reactions (p,d) and (p,np) with zirconium-91 at 11 to 13 MeV, excitation functions and reciprocity relation for, (E), 23:19253(R) (ORO-2972-80)
reactions (p,d) and (p,pd) with helium-3 at 30 and 46 MeV, deuteron spectra and proton angular correlations in, (E), 24:3842
reactions (p,d) and (p,pd) with lithium-6 at 14.7 MeV, differential cross sections for, 21:29884 (NYO-GEN-72-48)
reactions (p,d) and (p,pd) with lithium-6 at 14.7 MeV, differential cross sections for, (E), 22:9795
reactions (p,d) and (p,t) with aluminum-27, fluorine-19, magnesium-25, magnesium-26, phosphorus-31, silicon-29, silicon-30, and sodium-23, differential cross sections for, (E), 22:30048(R) (PUC-937-307)
reactions (p,d) and (p,t) with arsenic-75 at 17.5 MeV, angular distributions for, (E), 22:30048(R) (PUC-937-307)
reactions (p,d) and (p,t) with barium-138, calcium-48, molybdenum-92, neodymium-142, and strontium-88 at 52 MeV, angular distributions for, (E), 24:20404
reactions (p,d) and (p,t) with beryllium-9 at 46 MeV, angular distributions for, (E), 21:13809
reactions (p,d) and (p,t) with bismuth-209 at 31 MeV, angular distributions for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,d) and (p,t) with boron-10 at 49.5 MeV, differential cross sections for, (E), 24:13285
reactions (p,d) and (p,t) with calcium-40, -42, -44, and -48 at 20 MeV, DWBA analysis of, (E/T), 24:22102 (MPIH-1968/5/5)
reactions (p,d) and (p,t) with calcium-48 at 18 MeV, angular distributions for, (E), 22:37328
reactions (p,d) and (p,t) with calcium-48 at 18 MeV, angular distributions and spectra from, (E), 21:38377(R) (PUC-937-260)
reactions (p,d) and (p,t) with carbon-12 at 55 MeV, angular distributions for, (E), 22:26898
reactions (p,d) and (p,t) with carbon-12 at 62 MeV, angular distributions of differential cross sections for, (E), 23:7281(R) (ORNL-4280)
reactions (p,d) and (p,t) with carbon-13 at 55 MeV, angular distributions for, (E), 22:26903
reactions (p,d) and (p,t) with chromium isotopes at 17.5 MeV, energy levels from, (E), 21:29946
reactions (p,d) and (p,t) with fluorine-19 at 30 MeV, angular distributions for, (E), 22:13927(R) (USC-136-132)
reactions (p,d) and (p,t) with fluorine-19, cross sections for, (E), 21:7688(R) (USC-136-114)
reactions (p,d) and (p,t) with lead, tin, and zinc isotopes at 55 MeV, differential cross sections for, (E), 21:42613(R) (NP-16992)
reactions (p,d) and (p,t) with lead-204 and thallium-203 at 18 and 20 MeV, Q-values for, (E), 25:46041
reactions (p,d) and (p,t) with lead-208 at 18 to 24 MeV, excitation functions for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,d) and (p,t) with lead-208 at 40 MeV, (E), 22:32574 (MIT-2098-422, pp 95-105)
reactions (p,d) and (p,t) with magnesium-24 at 50 MeV, DWBA analysis of, (E/T), 23:30923(R) (RHEL/R-170)
reactions (p,d) and (p,t) with magnesium-24 at 50 MeV, angular distributions of differential cross sections for, (E), 22:27012
reactions (p,d) and (p,t) with magnesium-26 at 20 MeV, deuteron and triton spectra from, (E), 22:46729(R) (AECL-3157)
reactions (p,d) and (p,t) with molybdenum-98 at 11 to 14 MeV, isospin coupling in, (E), 23:15433 (RLO-1388-86)
reactions (p,d) and (p,t) with molybdenum-98 at 11 to 14 MeV, isospin coupling in, (E), 23:15475
reactions (p,d) and (p,t) with neon-20 at 50 MeV, cross sections for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,d) and (p,t) with nickel-58 at 22 to 40 MeV, differential cross sections for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,d) and (p,t) with niobium-93, yttrium-89, zirconium-91, and zirconium-92 at 55 MeV, isobaric analog resonances in, (E), 22:27140
reactions (p,d) and (p,t) with oxygen-18 at 18 MeV, angular distributions for, (E), 21:40387
reactions (p,d) and (p,t) with oxygen-18 at 18.5 MeV, cross sections for, (E), 21:19296 (UCRL-50001-66-1, pp 1-40)
reactions (p,d) and (p,t) with ruthenium-96 at 31.5 MeV, Q-values and angular distributions for, (E), 25:20436
reactions (p,d) and (p,t) with samarium-144 at 50 MeV, DWBA analysis of, (E/T), 23:30923(R) (RHEL/R-170)
reactions (p,d) and (p,t) with tin-117 and tin-119, research program on, (E), 22:37316(R) (UR-3591-9)
reactions (p,d) and (p,t) with titanium-46, -48, and -50 at 25 to 45 MeV, angular distributions for, (E), 25:14949
reactions (p,d) and (p,t) with zinc isotopes at 17.5 MeV, angular distributions for, (E), 21:9973
reactions (p,d) and (p,t) with zirconium-90 at 55 MeV, angular distributions and spectra for, (E), 22:26987
reactions (p,d) at 100 MeV, performance of germanium range—telescope spectrometer for obtaining spectra from, 22:350
reactions (p,d) with 2s1d-shell $N = Z$ nuclei, angular distributions and spectroscopic factors for, (E), 22:44664
reactions (p,d) with $A = 19$ to 31 nuclei at 17.5 MeV, angular distributions for, (E), 24:20368
reactions (p,d) with $A = 6$ to 40 nuclei at 156 MeV, angular distributions and energy spectra for, (E), 23:19193
reactions (p,d) with $A = 6$ to 40 nuclei at 156 MeV, DWBA analysis of, (T), 23:19368
reactions (p,d) with aluminum-27 and silicon-28 at 155 MeV, differential cross sections for, (E), 22:26946
reactions (p,d) with aluminum-27, phosphorus-31, and sodium-23 at 16 MeV, angular distributions for, (E), 23:46952
reactions (p,d) with argon-36 and -40 at 27.5 MeV, angular distributions of differential cross sections for, (E), 22:9800(R) (COO-535-571)
reactions (p,d) with argon-36 and -40 at 27.5 MeV, differential cross sections and deuteron spectra for, (E), 22:11928
reactions (p,d) with argon-36 at 26.3 MeV, argon-35 energy levels from, (E), 21:11991(R) (UCOL-535-561)

reactions (p,d) with argon-36, calcium-40, magnesium-24, silicon-28, and sulfur-32 at 34 MeV, angular distributions for, (E), 22:35274
reactions (p,d) with argon-40 at 17.5 MeV, argon-39 energy levels from, (E), 21:35453
reactions (p,d) with barium-138 and neodymium-142 at 52 MeV, angular distributions for, (E), 24:20272(R) (NP-18091)
reactions (p,d) with barium-138, cerium-140, neodymium-142, and samarium-144 at 24.55 MeV, DWBA analysis of differential cross sections and spectra from, (E), 25:53740 (FRNC-TH-41)
reactions (p,d) with barium-138, cerium-140, neodymium-142, and samarium-144 at 24.6 MeV, deuteron spectra and angular distributions for, (E), 25:23054
reactions (p,d) with beryllium-9 at 1.6 to 3.8 MeV, deuteron tensor polarization in, (E), 22:53110
reactions (p,d) with beryllium-9 at 16 to 29 MeV, cross sections and angular distributions for, (E/T), 22:29939
reactions (p,d) with beryllium-9 at 330 keV, deuteron polarization in, (E), 21:15493
reactions (p,d) with beryllium-9 at 4.9 to 9.8 MeV, deuteron tensor polarization from, (E), 21:25444
reactions (p,d) with beryllium-9 at 5 to 11 MeV, analysis for reaction mechanism in, (E/T), 24:43157
reactions (p,d) with beryllium-9 at 5.0 to 12.0 MeV, angular distributions of analyzing power from, (E/T), 25:5584
reactions (p,d) with beryllium-9 at 6.9 and 9.8 MeV, deuteron D-state effect in tensor polarization for, (T), 25:53649
reactions (p,d) with beryllium-9 at 7.5 to 15 MeV, width of beryllium-8 first excited state from, (E), 21:38301(R) (RLO-1388-13)
reactions (p,d) with beryllium-9 at 9 MeV, differential cross sections and coincidence spectra for, (E), 23:15346(R) (ORO-1316-70)
reactions (p,d) with beryllium-9 with formation of singlet deuteron, cross section for, (T), 22:39591
reactions (p,d) with beryllium-9, analysis using R-matrix formalism, (T), 22:41961
reactions (p,d) with beryllium-9, angular distributions for, (E), 21:7688(R) (USC-136-114)
reactions (p,d) with beryllium-9, beryllium-8 energy-level transitions from, (E), 21:15492
reactions (p,d) with beryllium-9, boron isotopes, carbon-12, and lithium isotopes at 40 MeV, differential cross sections for, (E), 21:15505
reactions (p,d) with beryllium-9, boron-10, boron-11, carbon-12, lithium-6, lithium-7, nitrogen-14, and oxygen-16 at 156 MeV, angular and energy distributions for, (E), 22:20484
reactions (p,d) with beryllium-9, carbon-12, and lithium-7 at 12 and 17 MeV, angular distributions of singlet deuterons from, (E), 23:30960
reactions (p,d) with beryllium-9, carbon-12, and silicon-28 at 185 MeV, deuteron vector polarization in, (E), 22:50548
reactions (p,d) with beryllium-9, carbon-12, and silicon-28 at 185 MeV, deuteron vector polarization from, (E), 24:24510
reactions (p,d) with beryllium-9, carbon-12, and silicon-28 at 185 MeV, differential cross sections, 24:10934
reactions (p,d) with beryllium-9, carbon-12, lithium-7, and oxygen-16 at 100 MeV, differential cross sections for, (E), 22:5766
reactions (p,d) with beryllium-9, deuteron tensor polarization from, (E), 21:29880(R) (ANU-P-379)
reactions (p,d) with beryllium-9, lithium-6, and lithium-7 at 34 MeV, deuteron angular distributions and spectra for, (E), 22:3600
reactions (p,d) with beryllium-9, phase-shift analysis of, (E/T), 22:26866
reactions (p,d) with beryllium-9, spectra from, (E), 21:29880(R) (ANU-P-379)
reactions (p,d) with bismuth-209 and iron-54 at 62 MeV, angular distributions of differential cross sections for, (E), 23:7281(R) (ORNL-4280)
reactions (p,d) with boron-10 at 49.56 MeV, asymmetry of the angular distributions in polarized, (E), 25:34009
reactions (p,d) with boron-11 at 34 MeV, deuteron angular distributions and spectra for, (E), 22:18135
reactions (p,d) with calcium-40 and nickel-58 at 20 and 27.5 Mev, cross sections for, (T), 23:1942
reactions (p,d) with calcium-40 and silicon-28 at 30 to 45 MeV, cross sections for, 25:17828
reactions (p,d) with calcium-40 and silicon-28 at 30.5 MeV, DWBA analysis of polarization analyzing powers and differential cross sections for, (E), 22:48489
reactions (p,d) with calcium-40 and silicon-28 at 30 MeV using polarized protons, deuteron asymmetries from, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,d) with calcium-40 at 27.5 MeV, model for, (T), 25:20522
reactions (p,d) with calcium-40 at 30 MeV, angular distribution for, (E), 24:43278
reactions (p,d) with calcium-40, -42, -44, and -48 at 20 MeV, spectroscopic factors for, (E), 22:35268
reactions (p,d) with calcium-40, angular distributions for, (E/T), 21:11991(R) (UCOL-535-561)
reactions (p,d) with calcium-42 and calcium-44 at 26.5 MeV, differential cross sections for, (E), 22:29972
reactions (p,d) with calcium-42 at 18 MeV, deuteron angular distributions and spectra from, (E), 21:38377(R) (PUC-937-260)
reactions (p,d) with calcium-42 at 26 MeV, differential cross sections for, (E), 21:27572 (MIT-2098-299, pp 74-82)
reactions (p,d) with calcium-42 at 40 MeV, angular distribution for, (E), 24:43278
reactions (p,d) with calcium-44 and -47 at 17.5 MeV, differential cross sections and spectra for, (E), 22:3647 (PUC-937-168)
reactions (p,d) with calcium-48 at 22.9 MeV, asymmetries from, (E/T), 25:14922 (CEA-CONF-1655)
reactions (p,d) with carbon-12 and oxygen-16 at 30 MeV, differential cross sections and polarizations for, (E), 21:33893
reactions (p,d) with carbon-12 at 1 GeV, 21:2599 (BNL-10686)
reactions (p,d) with carbon-12 at 100 MeV, DWBA analysis using local-energy approximation for finite-range correction, (T), 23:13207
reactions (p,d) with carbon-12 at 155 MeV, calculations using distorted-wave Born approximation, (T), 21:7711
reactions (p,d) with carbon-12 at 30 MeV, deuteron asymmetries using polarized protons, (E), 21:21454
reactions (p,d) with carbon-12 at 40 MeV, carbon-11 energy levels from, (E), 21:5435(R) (TID-23395)
reactions (p,d) with carbon-12, fluorine-19, helium-4, and nitrogen-14, cross-section calculations using peripheral model, (T), 23:28267
reactions (p,d) with carbon-12, helium-4, lead, lithium-6, and oxygen-16 at 1 GeV, Feynman-diagram calculation of deuteron momentum spectra from, 22:39572
reactions (p,d) with carbon-12, helium-4, lithium-6, and lithium-7 with pickup of neutrons in inner shell, (E), 23:8936 (TID-24667, pp 464-73)
reactions (p,d) with carbon-12, lead-208, and sulfur-32 at 28 MeV, spin dependence of angular distributions for, (E), 21:19191
reactions (p,d) with carbon-12, spectroscopic factors for, (T), 22:20767
reactions (p,d) with carbon-13 at 24.5 MeV using polarized beam, angular distributions and asymmetries for, (E), 25:45912 (CEA-N-1390, pp 91-137)
reactions (p,d) with carbon-13 at 55 MeV, angular distribution for, (E), 23:1797
reactions (p,d) with carbon-14 and nitrogen-14 at 14.5 MeV, angular distributions for, (E), 25:36673
reactions (p,d) with cerium-140, lead-206, and lead-208 at 55 MeV, angular distributions and spectra for, (E), 22:27146
reactions (p,d) with cerium-140, lead-206, and lead-208 at 55 MeV, angular distributions for, (E), 23:5879
reactions (p,d) with chromium-50 at 17.5 MeV, chromium-49 energy levels from, (E), 21:40415
reactions (p,d) with chromium-52 at 17.5 MeV, chromium-51 energy levels from, (E), 21:40415
reactions (p,d) with chromium-52 at 17.5 MeV, chromium-51 energy levels from, (E), 21:35453
reactions (p,d) with chromium-53 at 16.6 MeV using polarized beams, vector analyzing power for, (E), 23:25898
reactions (p,d) with chromium-53 at 17.5 MeV, chromium-52 energy levels from, (E), 21:35453
reactions (p,d) with chromium-54 at 17.5 MeV, chromium-53 energy levels from, (E), 21:35453
reactions (p,d) with deuterium at 3.0 to 46.3 MeV, nonrelativistic peripheral-model calculations of angular distributions from, (T), 25:43966
reactions (p,d) with fluorine-19 and potassium-39 at 16 and 18 MeV, angular distributions for, (E), 23:46952
reactions (p,d) with fluorine-19, sodium-23, magnesium-25, magnesium-26, aluminum-27, silicon-29, and silicon-30, angular distributions for, (E), 23:32901 (PUC-937-350)
reactions (p,d) with gadolinium-150, gold-197, and samarium-150 at 55 MeV, angular distributions for, (E), 24:6927
reactions (p,d) with helium-3 at 12 and 46 MeV, energy spectra for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,d) with helium-3 at 30 and 46 MeV, p—p final-state interaction in, (E), 23:1785
reactions (p,d) with helium-3 at 30 and 46 MeV, p—p final-state interaction in, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,d) with helium-3 at 30 and 50 MeV, analysis for final-state interaction in, (E/T), 23:32896
reactions (p,d) with helium-3 at 30 and 50 MeV, deuteron spectra for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,d) with helium-3 at 30.5 and 49.5 MeV, angular distributions from, (E/T), 25:3555
reactions (p,d) with helium-3 at 46 MeV, angular and energy distributions for, (E), 22:26810
reactions (p,d) with helium-3 at 46 MeV, angular distribution and deuteron energy spectra for, (E), 22:13927(R) (USC-136-132)
reactions (p,d) with helium-3, angular distributions and spectra from, (E/T), 21:7688(R) (USC-136-114)
reactions (p,d) with helium-4 and lithium-6 at 156 MeV, analysis of reaction mechanisms for, (E/T), 24:15774
reactions (p,d) with helium-4 at 156 MeV, angular distributions for, (E), 23:25831
reactions (p,d) with helium-4 at 31 to 155 MeV, analysis using peripheral model, (E/T), 23:37101
reactions (p,d) with helium-4 at 46.7 MeV, DWBA analysis of, (T), 24:13269
reactions (p,d) with iron-51 at 17.3 MeV using polarized beams, DWBA analysis of, (E/T), 24:3876 (CEA-CONF-1332)
reactions (p,d) with iron-56 and nickel-57, effects of deuteron d-state on, (T), 21:38387
reactions (p,d) with iron-56 at 18.5 MeV, effect of deuteron d-state on J-dependence in, (T), 22:27367
reactions (p,d) with iron-56 at 18.5 to 27.5 MeV, spin dependence of angular distributions for, (E), 21:19191
reactions (p,d) with iron-57 at 17.3 MeV using polarized beams, DWBA analysis of, (E/T), 24:8875
reactions (p,d) with iron-57 at 17.3 MeV using polarized beams, cross section and asymmetry for, (E), 25:5506 (CEA-N-1232, pp 81-159)
reactions (p,d) with iron-57 at 17.3 MeV, DWBA analysis of differential cross sections and asymmetries from, (E/T), 25:14921 (CEA-CONF-1653)
reactions (p,d) with iron-57, tin-118, tin-119, titanium-49, and zirconium-91 using polarized beam, differential cross section and asymmetries for, (E), 25:17831
reactions (p,d) with lead-208 at 14 to 16 MeV, cross section for, (E), 22:18234
reactions (p,d) with lead-208 at 14 to 21 MeV, excitation functions for, (E), 23:1921
reactions (p,d) with lead-208 at 20 and 22 MeV, angular distributions for, (E), 24:30831
reactions (p,d) with lead-208 at 20 and 22 MeV, angular distributions for, (E), 22:27206
reactions (p,d) with lead-210 at 20.6 MeV, (E), 25:34146
reactions (p,d) with lead-210, analysis using calculated form factors, (T), 25:10067
reactions (p,d) with lead-210, differential cross sections for, (E), 23:11034
reactions (p,d) with light nuclei, peripheral model in pole approximation for comparative analysis of differential cross sections for, 24:3845
reactions (p,d) with lithium-6 and lithium-7 at 100 MeV, DWBA analysis of, (E/T), 23:8950
reactions (p,d) with lithium-7 at 23 MeV, angular distributions for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,d) with magnesium-24 at 27 MeV, deuteron angular distributions and spectra for, (E), 22:9800(R) (COO-535-571)
reactions (p,d) with magnesium-24 at 50 MeV, differential cross sections for, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,d) with magnesium-25 and magnesium-26 at 40 MeV, 21:21476
reactions (p,d) with magnesium-25 at 15 MeV, testing time reversal invariance by, (E), 22:13979
reactions (p,d) with magnesium-25 at 15 MeV, time-reversal invariance in, (E), 21:38301(R) (RLO-1388-13)
reactions (p,d) with magnesium-25, excitation functions for, (E), 21:40429(R) (RLO-1388-23)
reactions (p,d) with molybdenum and zirconium isotopes, charge exchange effects and spectroscopic factors in, (E), 25:12571
reactions (p,d) with molybdenum-92 at 24.5 MeV, differential cross sections and asymmetries for, (E), 25:45912 (CEA-N-1390, pp 91-137)
reactions (p,d) with molybdenum-92 at 24.5 MeV, DWBA analysis of differential cross sections and asymmetries from, (E/T), 25:14980 (CEA-CONF-1654)
reactions (p,d) with neodymium-142 and samarium-144 at 35 MeV, DWBA analysis of, (E), 25:56770
reactions (p,d) with neodymium-142, praseodymium-141, and samarium-144, angular distribution for, (E), 25:9978(R) (ORO-3398-26)
reactions (p,d) with neon-20, -21, and -22 at 40 MeV, differential cross sections for, (E), 25:56704
reactions (p,d) with neon-22 at 18.2 MeV, angular distributions for, (E), 21:15529
reactions (p,d) with neon-22 at 20 MeV, angular distributions for, (E), 24:1803
reactions (p,d) with nickel-58 at 20.0 to 27.5 MeV, spin dependence of angular distributions for, (E), 21:19191
reactions (p,d) with nickel-58, analysis using mixed-configuration form factors, (T), 23:49458
reactions (p,d) with nickel-58, configuration mixing effects in, (T), 22:32726
reactions (p,d) with nickel-58, form factors for, (T), 22:27268
reactions (p,d) with nickel-58, form factors for, (T), 23:4075
reactions (p,d) with nickel-61 at 16.6 MeV using polarized beams, DWBA analysis of, (E/T), 24:3876 (CEA-CONF-1332)
reactions (p,d) with nickel-61 at 16.6 MeV using polarized beams, DWBA analysis of, (E/T), 24:8875
reactions (p,d) with nickel-61 at 16.6 MeV, DWBA analysis of differential cross sections and asymmetries from, (E/T), 25:14921 (CEA-CONF-1653)
reactions (p,d) with nickel-64 at 27.5 MeV, angular distribution for, (E), 25:5609
reactions (p,d) with niobium-93 at 55 MeV, isobaric analog resonances in, (E), 22:29993
reactions (p,d) with niobium-93 at 55 MeV, niobium-92 energy levels from, (E), 21:42613(R) (NP-16992)
reactions (p,d) with nitrogen-14 at 30 MeV, deuteron angular distributions and spectra from, (E), 21:33892
reactions (p,d) with nitrogen-15 at 39.8 MeV, deuteron spectra and angular distributions for, (E), 23:42857
reactions (p,d) with nitrogen-15 at 39.8 MeV, deuteron spectra and angular distributions for, (E), 24:15850
reactions (p,d) with nuclei adiabatic treatment of, (T), 25:28512
reactions (p,d) with nuclei in the lead region, realistic form factors for, (T), 25:10067
reactions (p,d) with nuclei, (E), 21:33808 (RHEL/R-129, pp 97-106)
reactions (p,d) with nuclei, approximation for form factors for, 21:27644
reactions (p,d) with nuclei, d-state effects on deuteron polarization in, (T), 21:21613
reactions (p,d) with nuclei, effect of deuteron d-state in, (T), 21:2776
reactions (p,d) with nuclei, isobaric analog resonance effects in, 25:28471
reactions (p,d) with nuclei, lectures on polarization in, (T), 25:12624 (ANU-P-497)
reactions (p,d) with oxygen-16 at 21 to 45 MeV, DWBA analysis of, (E/T), 24:15809
reactions (p,d) with oxygen-16 at 25 to 45 MeV, distorted-wave form factors for, (T), 24:40711
reactions (p,d) with oxygen-16 at 25.5 to 45.3 MeV, deuteron spectra and angular distributions for, (E), 23:42857
reactions (p,d) with oxygen-16 at 25.52, 30, and 31.82 MeV, effect of deuteron D-state on DWBA calculations of differential cross sections, deuteron polarizations, proton analyzing powers, and spectroscopic factors from, (T), 25:12414
reactions (p,d) with oxygen-16 at 30 MeV, effect of deuteron D-state on DWBA calculation for, (T), 25:53650
reactions (p,d) with oxygen-16 at 40 MeV, cross sections for, (E), 21:5435(R) (TID-23395)

reactions (p,d) with oxygen-17 at 31 MeV, deuteron spectra and angular distributions for, (E), 24:22095
reactions (p,d) with oxygen-18, shell-model calculation of form factors for, (T), 24:5443
reactions (p,d) with pseudonium-44, core excitation sensitivity in, (T), 24:8959
reactions (p,d) with silicon-28 at 27.6 MeV, angular distributions of differential cross sections for, (E), 22:9800(R) (COO-535-571)
reactions (p,d) with silicon-28 at 28 MeV, cross-section angular distributions and deuteron spectra for, (E/T), 22:9812
reactions (p,d) with silicon-29 and silicon-30 at 27.3 MeV, angular distributions and energy levels from, (E), 24:52536
reactions (p,d) with sodium-23 at 26.6 MeV, deuteron angular distributions and spectra for, (E), 22:9800(R) (COO-535-571)
reactions (p,d) with the even tin isotopes at 30 MeV, angular disbributions for, (E), 24:13355
reactions (p,d) with tin isotopes at 30 MeV, angular distributions for, (E/T), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,d) with tin isotopes, analysis using particle number conservation, (T), 25:39097
reactions (p,d) with tin-112, -114, -116, -118, -120, -122, and -124 at 30 MeV, angular distributions and spectra for, (E), 22:20627
reactions (p,d) with tin-117 and -118 at 55 MeV, deuteron energy spectra and angular distributions from, (E), 22:30009
reactions (p,d) with tin-117, tin-118, and tin-119 at 55 MeV, angular distributions for, (E), 22:27144
reactions (p,d) with tin-118 and -119 at 24.5 MeV, DWBA analysis of cross-section and asymmetry angular distributions from polarized, (E), 25:20365 (CEA-CONF-1657)
reactions (p,d) with tin-118 and zirconium-91 at 24.5 MeV using polarized beams, cross sections and asymmetries for, (E), 25:5506 (CEA-N-1232, pp 81-159)
reactions (p,d) with tin-118, DWBA analysis of asymmetries and scattering amplitudes from, (T), 25:17856 (CEA-CONF-1652)
reactions (p,d) with titanium-46 at 26.0 MeV, angular distributions for, (E/T), 22:26965
reactions (p,d) with titanium-46, -48, and -50 at 25 to 45 MeV angular distributions for, (E), 24:52503
reactions (p,d) with titanium-49 at 20.9 MeV, differential cross sections and asymmetries for, (E), 25:45912 (CEA-N-1390, pp 91-137)
reactions (p,d) with titanium-49 at 20.9 MeV, DWBA analysis of differential cross sections and asymmetries from, (E/T), 25:14922 (CEA-CONF-1655)
reactions (p,d) with vanadium-51 at 17.5 MeV, vanadium-50 energy levels from, (E), 21:35453
reactions (p,d) with yttrium-89 at 55 MeV, yttrium-88 energy levels from, (E), 21:42613(R) (NP-16992)
reactions (p,d) with yttrium-89, angular distributions and coincidence spectra from, (E), 22:35292 (ORNL-4217, pp 1-81)
reactions (p,d) with zinc-64 at 26 MeV, angular distributions for, (E), 23:8966
reactions (p,d) with zinc-64 at 26.5 MeV, DWBA analysis of angular distributions for, (E), 23:10936(R) (COO-535-591)
reactions (p,d) with zinc-67 at 55 MeV, angular distributions and spectra for, (E), 22:26986
reactions (p,d) with zirconium-90 at 22.9 MeV, DWBA analysis of differential cross sections and asymmetries from, (E/T), 25:14980 (CEA-CONF-1654)
reactions (p,d) with zirconium-90 at 32 MeV, deuteron spectrum and angular distributions from, (E), 21:33872(R) (ORNL-4122)
reactions (p,d) with zirconium-90 at 55 MeV, angular distributions for, (E), 22:50572
reactions (p,d) with zirconium-90 at 55 MeV, zirconium-89 energy levels from, (E), 21:42613(R) (NP-16992)
reactions (p,d) with zirconium-90 at 61 MeV, deuteron angular distributions and spectra for, (E), 22:35292 (ORNL-4217, pp 1-81)
reactions (p,d) with zirconium-90, zirconium-91, and zirconium-92 at 31 MeV, deuteron spectra and angular distributions for, (E), 22:44732
reactions (p,d) with zirconium-91 at 11 to 13 MeV, charge exchange in, (E), 22:20610
reactions (p,d) with zirconium-91 at 24.5 MeV using polarized beams, DWBA analysis of, (E/T), 24:3876 (CEA-CONF-1332)
reactions (p,d) with zirconium-91 at 24.5 MeV using polarized beams, DWBA analysis of, (E/T), 24:8875
reactions (p,d) with zirconium-91 at 32 MeV, deuteron spectrum from, (E), 21:33872(R) (ORNL-4122)
reactions (p,d) with zirconium-91 at 55 MeV, zirconium-90 energy levels from, 21:42613(R) (NP-16992)
reactions (p,d) with zirconium-96 at 10 to 13 MeV, excitation functions for, (E), 23:28313
reactions (p,d) with zirconium-96 at 19.4 MeV, angular distributions for, (E/T), 21:11991(R) (UCOL-535-561)
reactions (p,d) with zirconium-96 differential cross sections for, (E), 22:1679
reactions (p,d), (p,He-3), (p,t), (p,He-3p), and (p,tp) with helium-4 at 47 MeV, Watson—Migdal and direct-reaction analysis of spectra and angular distributions from, (E/T), 25:5533
reactions (p,d), (p,He-3), and (p,t) and helium-4 at 47 MeV, angular distributions for, (E), 24:3840
reactions (p,d), (p,He-3), and (p,t) with helium-4 at 47 MeV, spectra and angular distributions for, (E), 24:3837 (UCLA-10-P-18-15)
reactions (p,d), (p,He-3), and (p,t) with nuclei, nuclear structure determinations from, (E), 21:33812 (RHEL/R-144, pp 73-83)
reactions (p,d), (p,t) (p,He-3), and (p,α) with lithium-7 at 30.3 MeV, angular distributions for, (E), 23:19181
reactions (p,d), (p,t), (p,α), (p,He-3), (p,pd), and (p,2p) with nitrogen-14 at 46 MeV, angular distributions and spectra for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,d), (p,t), (p,He-3), and (p,α) with bismuth-209, carbon-12, and iron-54 at 60 MeV, differential cross sections for, (E), 23:10945
reactions (p,d), (p,t), (p,He-3), and (p,α) with bismuth-209 at 30.5 MeV, angular distributions for, (E), 23:28246(R) (USC-136-146)
reactions (p,d), (p,t), and (p,He-3) with helium-4 at 49.5 MeV, angular distributions from, (E/T), 25:3555
reactions (p,d), (p,t), and (p,He-3) with helium-4 at 46 MeV, angular distributions and energy spectra for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,d), (p,t), and (p,He-3) with lithium-7 at 156 MeV, analysis of reaction mechanisms for, (E/T), 24:15774
reactions (p,d*) with carbon-13 at 12.5 MeV, cross section for, (E), 25:50655
reactions (p,d*)p with deuterium at 9 to 13 MeV, excitation function for, (E), 25:3553
reactions (p,d)2α with beryllium-9 at 9 MeV, analysis of final-state interactions in, (E/T), 25:45929
reactions (p,d)2α with beryllium-9 at 9 MeV, final-state interactions in, (E), 23:10947
reactions (p,d)d and (p,d)np with tritium at 30 MeV, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,d)p at 7 to 17 MeV, angular distribution and excitation function of the singlet deuteron in, (E), 25:31196
reactions (p,dα), (p,pα), and (p,pd) with lithium-6 at 9 MeV, coincidence spectra from, (E), 21:40432 (WASH-1074)
reactions (p,dp) and (p,2p) with helium-3 at 46 MeV, differential cross sections for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,dp) with carbon-12, helium-4, lead, lithium-6, and oxygen-16 at 1 GeV, (E), 22:26831 (BNL-12344)
reactions (p,$e^{+}\nu$) with helium-3, solar neutrino production by, (T), 21:31704
reactions (p,f) at 150 MeV, delayed neutron yields from, (E), 24:30771
reactions (p,f) with aluminum at 600 MeV, lithium-8 energy and angular distributions from, (E), 25:53688
reactions (p,f) with bismuth and uranium at 159 MeV to 18.2 GeV, cross sections for indium isotopes and charge dispersion curves for A = 117 nuclei from, (E), 25:5784
reactions (p,f) with bismuth and uranium at 450 (MeV), recoil properties of isomeric muclei from, (E), 22:12338(R) (COO-1167-3)
reactions (p,f) with bismuth, gold, and lead, (E), 21:7774 (UCRL-16489)
reactions (p,f) with bismuth, gold, and uranium at 28 GeV, mass yields in rare earth region from, (E), 24:22182
reactions (p,f) with bismuth, gold, lead, and uranium at 0.59 to 23 GeV, cross sections for, (E), 25:25708 (CERN-71-2)
reactions (p,f) with bismuth-209, 25:15010
reactions (p,f) with bismuth-209 and tantalum-181 at 450 MeV, (E), 23:21330(R) (COO-1167-6)
reactions (p,f) with bismuth-209 and tantalum-181 at 450 MeV, analysis of recoil properties of products from, (E/T), 25:34071 (COO-1167-16)
reactions (p,f) with bismuth-209 and uranium-238 at 155 MeV, prompt neutron spectra and yields from, (E), 25:15021
reactions (p,f) with bismuth-209 and uranium-238 at 3 GeV/c, fission-fragment angular correlations and kinetic energies from, (E), 22:14513 (BNL-50057, pp 60-78)
reactions (p,f) with bismuth-209 and uranium-238 at 156 MeV, analysis using liquid drop model, (E/T), 23:49404
reactions (p,f) with bismuth-209 at 2.2 GeV, fission-product angular distributions and ranges from, (E), 22:14513 (BNL-50057, pp 60-78)
reactions (p,f) with bismuth-209 at 2.9 GeV, energies and angular correlations of fragment pairs from, (E), 24:24566
reactions (p,f) with bismuth-209 at 30 to 40 MeV, energies and angular distributions of fragments from, (E), 25:17937
reactions (p,f) with bismuth-209 at 30.6 to 44.5 MeV, angular distributions of fragments from, (E), 24:26648
reactions (p,f) with bismuth-209 at 36 MeV, mass and energy distributions of fragments from, (E), 23:39976(R) (ORNL-4395)
reactions (p,f) with bismuth-209, gold-197, and uranium at 0.6 to 29 GeV, cross sections for, (E), 23:37267
reactions (p,f) with bismuth-209, gold-197, and uranium-238 at 0.6 to 29 GeV, excitation functions for, (E), 22:14513 (BNL-50057, pp 60-78)
reactions (p,f) with bismuth-209, gold-197, lead-206, and lead-208 at 15 to 30 MeV, cross sections for, (E), 21:42668
reactions (p,f) with bismuth-209, neptunium-237, plutonium-239, uranium-235, and uranium-238 at 1 to 9 MeV, cross sections for, (E), 23:5866(T) (BNL-tr-235)
reactions (p,f) with bismuth-209, thorium-232, and uranium-238 at 156 MeV, delayed neutron emission in, (E), 22:9877
reactions (p,f) with bromine and silver at 20 GeV/c, fragment range and velocity in, (E), 22:53162
reactions (p,f) with bromine and silver at 460 MeV, velocities of residual nuclei in, (E), 21:10067
reactions (p,f) with gold-197 at 17.6 to 40 MeV, angular distribution of fission fragments from, (E), 25:23033(R) (ORO-3924-5)
reactions (p,f) with gold-197, cross section and fragment mass distribution for, (E), 23:31031
reactions (p,f) with gold-197, lead, and uranium at 0.6 to 23 GeV, fragment energy and angular distributions from ternary, (E), 24:45798
reactions (p,f) with heavy nuclei at 1 to 9 GeV, cross sections for, (E), 22:46804
reactions (p,f) with heavy nuclei at 18 BeV/c, (E), 21:1084
reactions (p,f) with heavy nuclei at high energies, (E), 21:1085
reactions (p,f) with heavy nuclei, review of, 25:36802
reactions (p,f) with lead and uranium at 0.6 to 23 GeV, cross sections for binary and ternary, (E), 25:34138
reactions (p,f) with lead-208 and uranium-238 at 12 GeV, charge distribution and recoil properties in, (E), 22:37338(R) (COO-1505-26)
reactions (p,f) with lead-208 and uranium-238 at 11.5 GeV, charge distributions and recoil properties of fragments from, (E), 23:37186(R) (COO-1505-33)
reactions (p,f) with lead-208 at 450 MeV, charge distribution and recoil properties in, (E), 23:4029
reactions (p,f) with neptunium-237 and plutonium-239 at 280 to 660 MeV, cross sections for, (E), 21:1091
reactions (p,f) with neptunium-237, thorium-232, uranium-235, and uranium-238, α emission in, (E), 22:3720
reactions (p,f) with nuclei at 500, 750, and 1000 MeV, analysis using nuclear reaction theory, 25:31417
reactions (p,f) with plutonium-239 and uranium-238 at 8 and 13 MeV, mass—energy yields for, (E), 24:1823 (ORNL-4437, pp 20-39)
reactions (p,f) with plutonium-239 and uranium-238 at 8 to 13 MeV, mass and energy distributions and correlations of fragments from, (E), 23:39976(R) (ORNL-4395)
reactions (p,f) with plutonium-239 at 20 to 85 MeV, charge dispersion in, (E), 24:28796
reactions (p,f) with plutonium-239 at 30 to 85 MeV, cesium-134 isomer ratios in, (E/T), 23:37225
reactions (p,f) with plutonium-239, thorium-232, uranium-233, uranium-235, and uranium-238 at 20 to 85 MeV, charge dispersion in, (E), 24:30801
reactions (p,f) with plutonium-239, thorium-232, uranium-233, uranium-235, and uranium-238 at 20 to 85 MeV, charge distribution of products from, (E), 25:17927
reactions (p,f) with praseodymium nuclei at 660 MeV, formation cross sections and mass distributions of isotopes from, 24:3893
reactions (p,f) with radium-226 and thorium-230 at 13 MeV, α spectra for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,f) with radium-226 at 12.5 to 16.5 MeV, mass-yield curve for, (E), 25:56775
reactions (p,f) with radium-226 at 13 MeV, analysis using renormalized Fermi gas model and collective potential energy surface, (T), 25:56856
reactions (p,f) with radium-226 at 13 MeV, average number of neutrons in, (E), 23:1881 (ORNL-TM-2364)
reactions (p,f) with radium-226 at 13 MeV, fragment kinetic-energy distributions from, (T), 25:28408
reactions (p,f) with radium-226 at 13 MeV, neutron emission and fission-fragment energy and mass distributions in, (E), 22:44738
reactions (p,f) with radium-226 at 6 to 13 MeV, fission-fragment angular distributions and cross sections for, (E), 21:31834(R) (ORNL-4082)
reactions (p,f) with radium-226 at 6 to 13 MeV, fission-fragment angular and mass distributions in, (E), 22:44739
reactions (p,f) with radium-226 at 9, 11, and 13 MeV, fragment mass and energy correlations of, (E), 24:13351
reactions (p,f) with radium-226, mass-yield distributions of fragments from, (E/T), 25:17884
reactions (p,f) with tantalum-181 and uranium-238 at 156 MeV, cross sections and fission-fragment angular and energy distributions for, (E), 22:9900
reactions (p,f) with thorium and uranium at 10.5 GeV, cross sections for production of cesium isotopes and rubidium isotopes by, (E), 22:24879
reactions (p,f) with thorium and uranium at 47 MeV, 22:27836
reactions (p,f) with thorium at 35 MeV, creep during, 22:15228
reactions (p,f) with thorium-232 and uranium-233, -235, and -238 at 8 to 100 MeV, cross sections and nuclear charge distributions for, (E), 21:46714(R) (AD-638005)
reactions (p,f) with thorium-232 at 10.5 MeV, charged-particle emission in, (E), 21:19283
reactions (p,f) with thorium-232 at 11.3 MeV, fission-product yields and mass and charge distributions from, (E/T), 25:10054
reactions (p,f) with thorium-232 at 11.5 MeV, nuclear charge distribution in, (E), 23:7328
reactions (p,f) with thorium-232 at 13 to 53, kinetic energy and mass distributions of fission fragments from, (E), 23:19311
reactions (p,f) with thorium-232 at 20 to 85 MeV, fission yield and charge dispersion in, (E), 25:56805
reactions (p,f) with thorium-232 at 20 to 85 MeV, nuclear charge distribution in, (E), 23:11006
reactions (p,f) with thorium-232 at 30 MeV, fission-fragment energy and mass correlations in, (E), 23:1879 (ORNL-4306, pp 1-21)
reactions (p,f) with thorium-232 at 36 MeV, magnesium-28 yields from, (E), 25:39038
reactions (p,f) with thorium-232 at 8 to 13 MeV, mass and energy distributions in, (E), 25:7847 (ORNL-4513)
reactions (p,f) with thorium-232 at 9 to 12 MeV, fission-fragment energy spectra and mass distributions and total cross sections for, (E), 25:48088
reactions (p,f) with thorium-232 at 9.5 and 11.3 MeV, nuclear charge distribution in, (E), 22:22588 (ORO-1797-11, pp 114-64)
reactions (p,f) with thorium-232 at 9.5 and 11.3 MeV, fission-fragment charge distributions from, (E), 21:42666

reactions (p,f) with thorium-232, uranium-233, uranium-235, and uranium-238 at 20 to 85 MeV, fission-product yields in, (E), 21:10069
reactions (p,f) with tungsten at 660 MeV, (E), 21:17374
reactions (p,f) with tungsten at 660 MeV, alpha-particle and proton energy spectra from, (E), 21:27617
reactions (p,f) with uranium at 0.6 and 18.2 GeV, recoil properties of antimony isotopes from, (E), 23:52146
reactions (p,f) with uranium at 14 GeV, use of semiconductor detectors for study of, 22:49104
reactions (p,f) with uranium at 18 and 23 GeV, cross sections for ternary, (E), 24:33143
reactions (p,f) with uranium at 20 to 85 MeV, cross sections for production of isobaric nuclei in, (E), 21:46741
reactions (p,f) with uranium at 30 to 160 MeV, yields and charge dispersion of antimony from, (E), 25:56757
reactions (p,f) with uranium at 440 MeV, production of heavy nuclides in, (E), 24:6933
reactions (p,f) with uranium at 450 MeV, fission-product recoil properties in, (E), 22:12338(R) (COO-1167-3)
reactions (p,f) with uranium at 450 MeV, reactions of recoil isomeric nuclides from, 23:21330(R) (COO-1167-6)
reactions (p,f) with uranium at 450 MeV, recoil properties of isobaric yields in, (E), 21:12439(R) (COO-1167-1)
reactions (p,f) with uranium at 5.5 GeV, carbon-17 production in, (E), 22:50542
reactions (p,f) with uranium at 5.5 GeV, energy spectra and angular distributions of fragments from, (E), 25:7808 (UCRL-19530, pp 53-106)
reactions (p,f) with uranium thick targets, range-energy calculations for products of, (T), 24:11040
reactions (p,f) with uranium, (E), 21:1110
reactions (p,f) with uranium, review of, 25:36802
reactions (p,f) with uranium-233 and -235 at 12 to 22 MeV, post-fission/pre-fission neutron ratio for, (E), 23:49395 (RLO-1388-99)
reactions (p,f) with uranium-233 and -235 at 20 to 85 MeV, cesium-134 isomer ratios in, (E), 24:15914
reactions (p,f) with uranium-233 and -238 at 11.5 to 22 MeV, neutron-emission—fission competition and neutron-per-fission ratios from, (E), 25:5692
reactions (p,f) with uranium-233 and -238 at 11.5 to 22 MeV, mass and neutron yields for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,f) with uranium-233 and -238 at 9.5 to 22 MeV, excitation energy dependence of neutron yields and fragment kinetic energy release in, (E), 24:38214 (RLO-1388-113)
reactions (p,f) with uranium-233 and uranium-238 at 8.5 to 13 MeV, mass and energy distributions and correlations of fragments from, (E), 23:39976(R) (ORNL-4395)
reactions (p,f) with uranium-233 at 13 MeV, average neutron number from, (E), 23:28304 (WASH-1124)
reactions (p,f) with uranium-233 at 13 MeV, neutron emission in, (E), 22:35293(R) (ORNL-4230)
reactions (p,f) with uranium-233 at 20 to 80 MeV, excitation functions, nuclear charge dispersion, and yields of cesium isotopes in, (E), 23:40064
reactions (p,f) with uranium-233 at 25 to 85 MeV, fragment energy and angular distributions for, (E), 25:3702
reactions (p,f) with uranium-233 at 8.5 and 13 MeV, fragment mass and energy distributions and neutron emission in, (E), 23:44921
reactions (p,f) with uranium-233 at 8.5 and 13 MeV, dependence of prompt neutron emission on fragment energy and mass distributions in, (E), 22:50601 (ORNL-TM-2272)
reactions (p,f) with uranium-233 at 8.5 and 13 MeV, energetics and neutron yields for, (E), 25:46028
reactions (p,f) with uranium-233 at 8.5 and 13 MeV, prompt neutron emission in, (E), 23:1900
reactions (p,f) with uranium-233, uranium-235, and uranium-238 at 7 to 13 MeV, fission-fragment energy and mass correlations in, (E), 23:1879 (ORNL-4306, pp 1-21)
reactions (p,f) with uranium-233, uranium-235, and uranium-238 at 7 to 13 MeV, fission-fragment energy-mass correlations in, (E), 22:35293(R) (ORNL-4230)
reactions (p,f) with uranium-235 and -238 at 20 to 85 MeV, yttrium-90 and -91 isomer ratios in, (E), 24:1834
reactions (p,f) with uranium-235 and -238 at 20 to 85 MeV, charge dispersion of light-mass products in, (E), 24:38254
reactions (p,f) with uranium-235 and -238 at 9.5 to 22 MeV, prompt-neutron energies and yields and fragment kinetic energy release in, (E), 25:3660
reactions (p,f) with uranium-235 at 10 MeV, insomeric cross-section ratio for niobium-95 from, (E), 22:18218
reactions (p,f) with uranium-235 at 10 MeV, isomer yields in, (E), 21:40429(R) (RLO-1388-23)
reactions (p,f) with uranium-235 at 10.5 and 13.0 MeV, charged-particle emission in, (E), 21:19283
reactions (p,f) with uranium-235 at 13 MeV, prompt neutron emission in, (E), 21:31834(R) (ORNL-4082)
reactions (p,f) with uranium-235 at 20 to 85 MeV, independent formation cross sections of cerium and cesium isotopes and charge dispersion curves for, (E), 25:46089
reactions (p,f) with uranium-235 at 7 to 13 MeV, cross section for, (E), 21:46723 (ORNL-4164, pp 1-23)
reactions (p,f) with uranium-238 at 0.45 and 11.5 GeV, cross sections and recoil properties of palladium and silver isotopes formed in, (E), 21:31773(R) (COO-1505-17)
reactions (p,f) with uranium-238 at 0.45 and 12 GeV, energy dependence of recoil properties of fission products in, (E), 22:37338(R) (COO-1505-26)
reactions (p,f) with uranium-238 at 10 and 12 MeV, nuclear charge distribution in, (E), 21:34012
reactions (p,f) with uranium-238 at 10 MeV, neptunium-238 compound nucleus lifetime in, (E), 24:18418
reactions (p,f) with uranium-238 at 10 to 24 MeV, cadmium-115 isomer yield ratio for, (E), 23:13271
reactions (p,f) with uranium-238 at 11.2 MeV, excitation functions and mass yield curves for, (E/T), 25:10052
reactions (p,f) with uranium-238 at 11.2 MeV, fragment yields from, (E), 25:34119
reactions (p,f) with uranium-238 at 11.5 GeV, charge distribution and recoil properties in, (E), 24:47651
reactions (p,f) with uranium-238 at 11.5 GeV, cross sections, charge distributions, and recoil properties of fragments from, (E), 23:37187 (COO-1505-34)
reactions (p,f) with uranium-238 at 11.5 GeV, production cross sections and recoil ranges for A = 131 isobars from, (E), 25:53663(R) (COO-1505-48)
reactions (p,f) with uranium-238 at 12 MeV in uranium dioxide single crystal, lifetime of compound nucleus in, (E), 22:35308
reactions (p,f) with uranium-238 at 12 MeV, dependence of prompt neutron emission on fragment energy and mass distributions in, (E), 22:50601 (ORNL-TM-2272)
reactions (p,f) with uranium-238 at 12 MeV, energetics and neutron yields for, (E), 25:46028
reactions (p,f) with uranium-238 at 12 MeV, fragment mass and energy distributions and neutron emission in, (E), 23:44921
reactions (p,f) with uranium-238 at 12 MeV, prompt-neutron emission in, (E), 22:37369
reactions (p,f) with uranium-238 at 150 MeV, delayed neutron emission in, (E), 21:21539
reactions (p,f) with uranium-238 at 150 MeV, production of short-lived cesium and rubidium isotopes by, (E), 22:30033
reactions (p,f) with uranium-238 at 2.2 GeV, angular distributions and differential range curves for products of, (E), 22:53198
reactions (p,f) with uranium-238 at 20 to 85 MeV, yields of light-mass nuclides in, (E), 23:4035
reactions (p,f) with uranium-238 at 40 to 85 MeV, recoil properties of copper-67, nickel-66, and zinc-72 produced from, (E), 23:15452
reactions (p,f) with uranium-238 at 450 MeV, charge distribution in symmetric, (E), 22:48537
reactions (p,f) with uranium-238 at 450 MeV, mass yield and charge distribution from, (E), 25:31302 (COO-1167-10)
reactions (p,f) with uranium-238 at 450 MeV, recoil studies of symmetric, (E), 22:48536
reactions (p,f) with uranium-238 at 9.5 and 11.3 MeV, nuclear charge distribution in, (E), 23:7327
reactions (p,f) with uranium-238 at high energy, calculations using Monte Carlo method, (T), 21:2718
reactions (p,f) with Z = 74 to 94 nuclei, cross sections for, 25:31326
reactions (p,γ) and (p,α) with beryllium-9 at 0.6 to 1.5 MeV, (E), 24:49704 (NP-18438)
reactions (p,γ) and (p,α) with chlorine-37 at 0.9 to 2 MeV, argon-38 analog levels from, (E), 22:15967
reactions (p,γ) and (p,n) with carbon-14 at 0.7 to 1.5 MeV, analysis using R- and S-matrix theories, (T), 24:8848
reactions (p,γ) and (p,n) with carbon-14 at 2.3 to 2.6 MeV, excitation functions and gamma spectra from, (E), 25:56669
reactions (p,γ) and (p,n) with cerium-142, excitation functions for, (E/T), 22:11973
reactions (p,γ) and (p,n) with cobalt-59 and vanadium-51, isobaric analog resonances in, (E), 22:37315 (KFK-704)
reactions (p,γ) and (p,n) with manganese-55 at 1 MeV with excitation of isobaric analog resonances, excitation functions for, (E), 23:21293 (ZFK-130, pp 96-9)
reactions (p,γ) and (p,n) with manganese-55 at 2 MeV, isobaric analog resonances in, (E), 21:46707
reactions (p,γ) and (p,n) with manganese-55 with excitation of isobaric analog resonances, analysis using Robson and Breit—Wigner methods, (E/T), 23:21294 (ZFK-130, pp 100-3)
reactions (p,γ) and (p,n) with titanium-50 at 2.8 to 3.6 MeV, excitation functions for, (E), 25:34064
reactions (p,γ) and (p,n) with tritons, use of Feynman diagrams to determine position of resonances in, (T), 22:18337
reactions (p,γ) and (p,n) with vanadium-51 at 0.6 to 2.7 MeV, chromium-52 analog states from, (E), 21:25469
reactions (p,γ) and (p,n) with vanadium-51, isobaric analog resonances in, (E), 22:27052
reactions (p,γ) and (p,n) with yttrium-89 at 4.7 to 6.4 MeV, isobaric analog states from, (E), 21:25530
reactions (p,γ) and (p,n) with yttrium-89, zirconium-90 isobaric analog states from, (E), 21:7795
reactions (p,γ) and (p,nγ) with calcium-48 at 1.94 to 2.00 MeV, isobaric analog resonances in, (E), 22:27042
reactions (p,γ) at 0.992 to 1.767 MeV, gamma spectra, 24:43194
reactions (p,γ) on sodium-23, magnesium-24 photodisintegration rates from, 25:55703
reactions (p,γ) with Al-27 in stars, rates for, (E), 24:19577
reactions (p,γ) with aluminum-27 and sodium-23 at 0.7 to 1.5 MeV, positions and widths of resonances in, (E), 21:44651
reactions (p,γ) with aluminum-27 and sodium-23, resonances in, (E), 22:9844
reactions (p,γ) with aluminum-27 at 0.3 to 1 MeV, γ spectra from, (E), 24:3895
reactions (p,γ) with aluminum-27 at 0.3 to 2.6 MeV, resonance widths and cross section for, (E), 23:34761
reactions (p,γ) with aluminum-27 at 0.3 to 2.6 MeV, γ-ray yield from, (E), 25:14951
reactions (p,γ) with aluminum-27 at 0.6 to 2.2 MeV, γ spectra from, (E), 24:43186 (RLO-1925-34)
reactions (p,γ) with aluminum-27 at 0.850 to 3.00 MeV, gamma spectra from, (E), 25:53700
reactions (p,γ) with aluminum-27 at 0.9 to 1.4 MeV, effects of temperature and contaminants on resonance widths in, (E), 21:44650
reactions (p,γ) with aluminum-27 at 0.9 to 1.9 MeV, excitation function and resonance energy for, (E), 25:12402
reactions (p,γ) with aluminum-27 at 1 MeV, γ—γ coincidence spectra for, (E), 23:22080
reactions (p,γ) with aluminum-27 at 1 to 2 MeV, γ spectra from, (E), 24:30744
reactions (p,γ) with aluminum-27 at 1 to 2.5 MeV, measurement of gamma resonance energy and yields for, 23:19187
reactions (p,γ) with aluminum-27 at 1 to 4 MeV, resonance γ spectra from, (E), 22:44662
reactions (p,γ) with aluminum-27 at 1.724 MeV, gamma angular distributions and linear polarizations from, (E), 25:36699
reactions (p,γ) with aluminum-27 at 1024 and 1118 keV, attenuated Doppler shift of gamma rays from, (E), 21:25492
reactions (p,γ) with aluminum-27 at 1118, 1172, 1183, 1199, and 1328 keV resonances, γ angular correlations and distributions for, (E), 23:19239
reactions (p,γ) with aluminum-27 at 2.3 to 3.2 MeV, excitation functions for, (E), 21:33945
reactions (p,γ) with aluminum-27 at 6 to 16 MeV, angular distributions for, (T), 21:33911
reactions (p,γ) with aluminum-27 at 612 keV, resonance widths in, (E), 22:41994
reactions (p,γ) with aluminum-27 at 655 to 2203 keV, γ spectra from, (E), 25:34034
reactions (p,γ) with aluminum-27 at 742 and 1381 keV, Q-value for, (E), 25:14936
reactions (p,γ) with aluminum-27 at 992 keV, measurement of excitation function for, (E), 24:47628
reactions (p,γ) with aluminum-27 in giant resonance region, angular distributions for, (E/T), 22:11945(R) (ANL-7384)
reactions (p,γ) with aluminum-27 near 1 MeV, precise γ-ray energies and Q-value for, (E), 25:59762
reactions (p,γ) with aluminum-27 near 1.5 and 1.7 MeV, angular distributions for, (E), 25:14948
reactions (p,γ) with aluminum-27, energy levels of silicon-28 from, (E), 24:52532
reactions (p,γ) with aluminum-27, γ angular distributions and yields in, (E), 22:5897
reactions (p,γ) with aluminum-27, γ Doppler shifts in, (E), 22:18123(R) (RLO-1925-11)
reactions (p,γ) with aluminum-27, γ spectra from resonance, (E), 22:37281(R) (NYO-72-191)
reactions (p,γ) with aluminum-27, large-volume coaxial lithium-drifted germanium detector for measuring gamma spectrum from, 22:19138
reactions (p,γ) with aluminum-27, resonance absorption of 12.33-MeV γ ray from, (E), 22:27074
reactions (p,γ) with aluminum-27, resonance energy for, (E), 21:2631
reactions (p,γ) with aluminum-27, resonance energy measurement using absolute velocity gauge method, (E), 21:38234 (LA-DC-8856)
reactions (p,γ) with aluminum-27, silicon-28 energy levels from, (E), 21:5516
reactions (p,γ) with aluminum-27, silicon-28 isobaric analog states from, (E), 21:1045
reactions (p,γ) with argon-36, potassium-37 energy-level parameters from, (E), 21:33900 (AD-654156)
reactions (p,γ) with argon-38 at 12.5 to 2.35 MeV, angular distributions and Q-value for, (E), 25:5631
reactions (p,γ) with argon-38, Q value for, (E), 25:17852
reactions (p,γ) with argon-40 at 1 to 2 MeV with excitation of isobaric analog resonances, γ angular distributions for, (E), 23:13255
reactions (p,γ) with beryllium-10 at 0.6 to 6.3 MeV, differential cross sections for, (E), 24:24505
reactions (p,γ) with beryllium-7 at 0.95 to 3.28 MeV, cross-section measurements and zero-energy cross-section factor for, (E), 25:12400
reactions (p,γ) with beryllium-7, cross sections for, (E), 22:44625
reactions (p,γ) with beryllium-7, cross-section calculations using single-praticle model, (T), 24:40568
reactions (p,γ) with beryllium-9 and lithium-7 in giant resonance region, γ yields and angular distributions for, (E), 25:43813
reactions (p,γ) with bismuth-209 at 15 and 16 MeV, cross sections and γ spectra for, (E), 21:40429(R) (RLO-1388-23)
reactions (p,γ) with boron-10 at 2.6 to 17 MeV, cross sections for, (E), 25:20277
reactions (p,γ) with boron-10, carbon-11 energy levels from, (E), 22:9783
reactions (p,γ) with boron-11 at 13 to 21 MeV, angular distributions and excitation functions for, (E), 23:8948
reactions (p,γ) with boron-11 at 13 to 22 MeV, differential cross sections and γ angular distributions for, (E), 22:26871
reactions (p,γ) with boron-11 up to 36 MeV, excitation functions for, (E), 25:33988
reactions (p,γ) with boron-11, giant dipole resonances in, (T), 22:20473
reactions (p,γ) with boron-11, lithium-7, potassium-39, and sodium-23 at 10.4 to 14.5 MeV, gamma-ray yields from, (E), 21:31729
reactions (p,γ) with calcium-40 at 0.6 to 5.2 MeV, resonances in, (E), 22:29967
reactions (p,γ) with calcium-40 at 6 to 13 MeV, (E), 23:15346(R) (ORO-1316-70)
reactions (p,γ) with calcium-40, yield curve for, (E), 23:1882 (WASH-1093)
reactions (p,γ) with calcium-42 at 1.2 to 2 MeV, γ spectra from, (E), 24:10953
reactions (p,γ) with calcium-42 at 1.2 to 2.1 MeV, γ-ray angular correlations and linear polarization from, (E), 24:24539

reactions (p,γ) with calcium-44 at 1.575 to 1.740 MeV, excitation functions and radiation widths from, (E), 25:38936
reactions (p,γ) with calcium-44, γ angular distributions for, (E), 22:18186
reactions (p,γ) with calcium-46 at 1.8 to 1.9 MeV, γ spectra from, (E), 25:53672
reactions (p,γ) with calcium-48 at 4 to 18 MeV, excitation function and gamma spectrum from, (E), 25:59742
reactions (p,γ) with calcium-48, gamma branching from calcium-49 ground-state analog in scandium-49 from, (E), 21:11996
reactions (p,γ) with calcium-48, γ spectra for, (E), 22:35267
reactions (p,γ) with calcium-48, scandium-49 analog states from, (E), 21:23314 (BNL-994, pp 70-102)
reactions (p,γ) with carbon and nitrogen in ceramic fuels, use in analysis, 24:2975 (ORNL-4470, pp 18-22)
reactions (p,γ) with carbon-12 at 1.4 to 1.9 MeV, cross sections for, (E), 22:24832
reactions (p,γ) with carbon-12 at 11 to 48 MeV, cross section evaluations, 21:7697
reactions (p,γ) with carbon-12 at 14.2 MeV, γ angular distributions and spectra for, (E), 22:26841
reactions (p,γ) with carbon-12, analysis of wide near-threshold resonances in, (T), 23:23789
reactions (p,γ) with carbon-12, fluorine-19, oxygen-16, and sodium-23, resonances in, (E), 22:26989
reactions (p,γ) with carbon-12, giant dipole resonances in, (T), 21:13816
reactions (p,γ) with carbon-12, γ spectra for, (E), 23:15385
reactions (p,γ) with carbon-12, recoil, (E), 21:19190
reactions (p,γ) with carbon-13 at 1.75 MeV, measure of beam energy spread of Van de Graaff accelerator using, 22:18060
reactions (p,γ) with carbon-13 at 1012-keV resonance, γ spectra from, (E), 22:32513(R) (ANU-P-400)
reactions (p,γ) with carbon-13 at 154 to 311 keV, cross section evaluations, 21:7697
reactions (p,γ) with carbon-13, lithium-7, and nitrogen-15, giant resonances in, (E), 22:26914
reactions (p,γ) with carbon-13, nitrogen-14, and nitrogen-15, γ yields and angular distributions for, (E), 25:7810
reactions (p,γ) with carbon-14 and nitrogen-14, analysis using particle—hole model with pair correlations, 23:46920
reactions (p,γ) with carbon-14 and nitrogen-14, resonances in, (T), 22:20451 (JINR-P4-3674)
reactions (p,γ) with carbon-14 and nitrogen-14, resonances in, (T), 22:41948(T) (BNL-tr-218)
reactions (p,γ) with carbon-14 at 0.6 to 2.7 MeV, resonances in, (E), 22:44621
reactions (p,γ) with carbon-14 at 1.3 to 2.6 MeV, γ spectra and angular distributions for, (E), 25:12416
reactions (p,γ) with carbon-14 at 1.3 to 2.6 MeV, angular distributions, excitation functions, and spectra from, (E), 25:53605 (COO-1120-120)
reactions (p,γ) with carbon-14 at 250 to 650 keV, resonance γ angular distributions and triple correlation measurements on, (E), 23:5812 (COO-1120-75)
reactions (p,γ) with carbon-14 at 250 to 670 keV, γ angular correlations and spectra for, (E), 23:23640
reactions (p,γ) with carbon-14 at 634 keV resonance, γ Doppler shift measurements for, (E), 23:10937(R) (COO-1120-78)
reactions (p,γ) with carbon-14, γ spectra from, (E), 24:10924
reactions (p,γ) with cerium-140 at 9.5 to 10.7 MeV with excitation of isobaric analog resonances, excitation functions for, (E), 23:25928
reactions (p,γ) with cerium-140 at 9.75 MeV, isobaric analog resonances in, (E), 22:42092
reactions (p,γ) with cerium-142 at 10 to 50 MeV, quadrupole contribution to cross section for, (T), 23:25942 (RT/FI-(68)50)
reactions (p,γ) with cerium-142, lead-208, and tellurium-130, cross sections for, (T), 22:42132
reactions (p,γ) with chlorine-35 at 4 to 12 MeV in giant resonance region, γ angular distributions for, (E), 22:5809(R) (ANL-7354)
reactions (p,γ) with chlorine-35 at 4 to 12 MeV, giant dipole resonance in, (E), 22:27078
reactions (p,γ) with chlorine-35 at 4 to 12 MeV, giant resonance formation in, (E), 23:17103(R) (ANL-7481)
reactions (p,γ) with chlorine-35 at 4 to 12 MeV, γ angular distributions and yields for, (E), 22:11945(R) (ANL-7384)
reactions (p,γ) with chlorine-35, Doppler shift measurements on, (E), 24:38200
reactions (p,γ) with chlorine-37 at 0.66 to 1.43 and 0.84 to 1.13 MeV, excitation functions for, (E), 21:29929
reactions (p,γ) with chlorine-37 at 1 to 2 MeV, gamma angular distribution and polarization from, (E), 21:44644
reactions (p,γ) with chromium-50 and chromium-54 at 1.5 to 2.5 MeV, (E), 21:21484
reactions (p,γ) with chromium-50 at 0.7 to 1.4 MeV, gamma spectra and Q-value for, (E), 21:33902 (LFF-19)
reactions (p,γ) with chromium-50 at 1.05 to 1.97 MeV, γ spectra and Q-value for, (E), 22:18184
reactions (p,γ) with chromium-50, γ angular distributions for, (E), 22:18185
reactions (p,γ) with chromium-52 at 1 to 1.6 MeV, γ-γ coincidence spectra from, 25:43837
reactions (p,γ) with chromium-52 at 1.36 to 2.26 MeV, γ spectra and yields from, (E), 22:5788 (NP-17149)
reactions (p,γ) with chromium-52 at 1.724, 1.788, and 2.149 MeV, manganese-53 energy-level spins and transitions from, (E), 21:7736
reactions (p,γ) with chromium-53, iron-57, and titanium-49 at 0.8 to 1.5 MeV, γ spectra and excitation functions for, (E), 23:19216
reactions (p,γ) with chromium-53, manganese-54 energy levels from, (E), 21:9958
reactions (p,γ) with chromium-54, manganese-55 energy levels from, (E), 21:9958
reactions (p,γ) with chronium-52 lower than 2.5 MeV, statistical analysis of, (E/T), 24:8866
reactions (p,γ) with cobalt-59 at 1.3 to 2.448 MeV, yields from, (E), 25:38936
reactions (p,γ) with cobalt-59 at 4.40 to 13.60 MeV, angular distributions, excitation functions, and spectra from, (E/T), 25:43867
reactions (p,γ) with cobalt-59, potassium-39, and potassium-41 in giant resonance region, angular distributions and cross sections for, (E), 25:43853
reactions (p,γ) with copper-63 at 10 to 20 MeV, γ spectra from, (E), 24:52512
reactions (p,γ) with copper-63 at 2 to 18 MeV, gamma spectra from, (E), 25:59742
reactions (p,γ) with deuterium at 0.8 to 3.2 MeV, angular distribution and cross section for, (E), 25:56645
reactions (p,γ) with deuterium at 156 MeV, analysis using Born approximation, (E/T), 23:25797
reactions (p,γ) with deuterium at 156 MeV, angular distribution for, (E), 24:28694
reactions (p,γ) with deuterium at 156 MeV, capture of protons by neutrons in, (E), 24:10913
reactions (p,γ) with deuterium at 156 MeV, differential cross section for, (E), 23:8925 (TID-24667, pp 503-4)
reactions (p,γ) with deuterium at 156 MeV, differential cross sections for, (E), 23:25795
reactions (p,γ) with deuterium at 2 to 12 MeV, differential cross sections for, (E), 22:9772
reactions (p,γ) with deuterium at 2.5 to 3.5 MeV, differential cross sections for, (E), 21:23407
reactions (p,γ) with deuterium at 57 to 1100 keV, gamma yield and total cross section for, (E), 25:14885
reactions (p,γ) with deuterium at 70 and 144 keV, γ-ray angular distributions from, (E), 24:10907
reactions (p,γ) with deuterium at low energy, cross-section calculations using direct two-body model, (T), 22:26830
reactions (p,γ) with deuterium at low energy, cross sections for, (T), 21:17298
reactions (p,γ) with deuterium, cross-section calculations using variational wave functions, (T), 21:17301
reactions (p,γ) with deuterium, effect of deuteron-proton interaction on, (T), 22:20444
reactions (p,γ) with deuterium, radiative transitions in, (T), 22:26793
reactions (p,γ) with deuterium, S-wave cross sections for, 22:9047
reactions (p,γ) with fluorine-19 at 2.88 to 12.80 MeV, giant dipole resonances in, (E), 21:7716
reactions (p,γ) with fluorine-19, description of intermediate-structure resonances using shell model with Feshbach formalism, (T), 22:3616
reactions (p,γ) with fluorine-19, neon-20 lowest T = 2 energy level from, (E), 21:42567
reactions (p,γ) with gold-197, indium-115, silver, and tantalum-181 at 4 MeV, compound-nucleus-model analysis of cross sections and gamma spectra from, (E/T), 25:59801
reactions (p,γ) with helium-3 at 3 to 18 MeV, angular distributions and cross sections for, (E), 24:49701
reactions (p,γ) with indium-115 and silver at 4 MeV, gamma spectra from, (E/T), 25:31303 (INR-1271)
reactions (p,γ) with iron-54 at 1 to 2 MeV, resonance positions and γ spectra for, (E), 22:48494
reactions (p,γ) with iron-54 at 1.07 to 2.03 MeV, γ angular distributions and spectra for, (E), 22:18183
reactions (p,γ) with iron-56 at 1.2 to 1.6 MeV, angular distributions for, (E), 25:20336
reactions (p,γ) with iron-56 at 1.2 to 1.7 MeV, angular distributions for, (E), 25:45985
reactions (p,γ) with iron-56 at 1.21 to 2.57 MeV, angular distributions, gamma spectra, cross sections, and Q-value for, (E), 25:3601
reactions (p,γ) with iron-56, cobalt-57 energy-level transitions from, (E), 21:9959
reactions (p,γ) with iron-57 at 1.150 to 1.575 MeV, γ singles and coincidence spectra from, (E), 24:30724 (LUNP-6907)
reactions (p,γ) with iron-57 at 1.2 to 1.7 MeV, gamma spectra from, (E), 24:38185
reactions (p,γ) with iron-58 at 1.2 to 2.3 MeV, resonance γ spectra and widths for, (E), 23:13258
reactions (p,γ) with lead-208 at 6 to 30 MeV, direct and collective contributions in, (T), 24:38285
reactions (p,γ) with lead-208, calculation including spin-orbit interaction, (T), 22:9977
reactions (p,γ) with light and intermediate nuclei, distribution of radiation widths from, (T), 25:3767
reactions (p,γ) with lithium-6 at 0.5 to 0.8 MeV, angular distributions for, (E), 24:43158
reactions (p,γ) with lithium-7 at 0.44 to 2.45 MeV, differential cross sections for, (E), 22:41967
reactions (p,γ) with lithium-7 at 0.441 and 1.50 MeV, alpha—gamma angular correlations in, (E), 24:6842
reactions (p,γ) with lithium-7 at 0.441 to 2.45 MeV, cross sections for excitation of the 16.63- and 16.90-MeV states in beryllium-8, (E), 24:6843
reactions (p,γ) with lithium-7 at 0.8 to 3.1 MeV, angular distributions and cross sections for, (E), 21:9931 (BMwF-FBK-66-26)
reactions (p,γ) with lithium-7 at 1.4 to 2.5 MeV, γ angular distributions and yields for, (E), 22:29932
reactions (p,γ) with lithium-7, beryllium-8 energy levels from, 21:29880(R) (ANU-P-379)
reactions (p,γ) with lithium-7, production of monochromatic gamma beams in, 23:39940
reactions (p,γ) with magnesium-24 and neon-22, resonances in, (E), 22:26932(R) (NP-17434)
reactions (p,γ) with magnesium-24 and silicon-28, isobaric analog resonance in, (E), 22:53149
reactions (p,γ) with magnesium-24 at 0.8 to 1.8 MeV, γ spectra for, (E), 24:1782
reactions (p,γ) with magnesium-24 at 1 to 2 MeV, γ spectra and angular distributions for, (E), 24:8879
reactions (p,γ) with magnesium-24 at 1.49 MeV, γ-ray angular distributions for, (E), 25:31266
reactions (p,γ) with magnesium-24 at 1.824 MeV, γ angular distributions and resonance width for, (E), 23:10966
reactions (p,γ) with magnesium-24 at 1200 and 1823 keV, resonance widths in, (E), 22:41994
reactions (p,γ) with magnesium-24 at 1201 and 1485 keV, Q value for, (E), 25:28276
reactions (p,γ) with magnesium-24 at 6 MeV, isobaric analog resonances in, (E), 22:5809(R) (ANL-7354)
reactions (p,γ) with magnesium-24, γ spectra and yield curves for, (E), 23:17103(R) (ANL-7481)
reactions (p,γ) with magnesium-24, γ spectra from resonance, (E), 23:28304 (WASH-1124)
reactions (p,γ) with magnesium-24, isobaric analog resonances in, (E), 22:26991
reactions (p,γ) with magnesium-24, yield curves for, (E), 22:11945(R) (ANL-7384)
reactions (p,γ) with magnesium-25 at 0.9 to 1.3 MeV, γ Doppler-shift attenuation in, (E), 22:11944(R) (AECL-2780)
reactions (p,γ) with magnesium-25 at 0.9 to 1.8 MeV, resonance γ spectra from, (E), 23:10964
reactions (p,γ) with magnesium-26 and silicon-30, resonances in, (E), 22:11948(R) (NP-17216)
reactions (p,γ) with magnesium-26 at 0.3 to 2.8 MeV, gamma spectra from, (E), 21:33909
reactions (p,γ) with magnesium-26 at 0.3 to 2.8 MeV, gamma angular correlations and polarization in, (E), 21:33910
reactions (p,γ) with magnesium-26 at 0.66 to 1.0 MeV, γ spectra and angular distributions for, (E), 23:32907 (ANU-P-423)
reactions (p,γ) with magnesium-26 at 0.66 to 1.05 MeV, γ spectra and resonance spins for, (E), 22:32513(R) (ANU-P-400)
reactions (p,γ) with magnesium-26 at 0.7 to 1 MeV, γ spectra for, (E), 23:52140
reactions (p,γ) with magnesium-26 at 1.785 and 1.965 MeV, resonances in, (E), 22:39621
reactions (p,γ) with magnesium-26 at 2.0, 2.4, and 2.5 MeV, gamma angular correlations from, (E), 21:33939
reactions (p,γ) with magnesium-26 at 2.174 MeV, resonance in, (E), 22:44643
reactions (p,γ) with magnesium-26 at 2.29 MeV, p-γ-γ correlations for, (E), 22:13965
reactions (p,γ) with magnesium-26 at 2.3 to 3.0 MeV, γ angular distributions and spectra from, (E), 21:44637
reactions (p,γ) with magnesium-26 at 2.3 to 3.0 MeV, aluminum-27 energy levels from, (E), 21:7756
reactions (p,γ) with magnesium-26 at 2.7 to 3.2 MeV, excitation functions for, (E), 25:38887 (JAERI-1205, pp 87-90)
reactions (p,γ) with magnesium-26 at 2293 and 2322 keV, γ spectra from, 23:2663 (NP-17612)
reactions (p,γ) with magnesium-26 at 2322 keV, aluminum-27 energy levels from, (E), 22:9804
reactions (p,γ) with magnesium-26 at 338 and 1733 keV, aluminum-27 energy levels from, (E), 22:15967
reactions (p,γ) with magnesium-26, effects of target quantity and composition on Doppler shift attenuation measurements for, 25:50578
reactions (p,γ) with magnesium-26, resonances in, (E), 21:29880(R) (ANU-P-379)
reactions (p,γ) with manganese-55 at 1.3 to 1.5 MeV, γ branching ratios for isobaric analog resonances in, (E), 25:5676
reactions (p,γ) with manganese-55 at 2 MeV with isobaric analog excitation, γ spectra from, (E), 24:20344 (JAERI-1184, pp 116-19)
reactions (p,γ) with molybdenum-100 and selenium-32 at 5 to 50 MeV, cross sections for, (E), 23:1846
reactions (p,γ) with molybdenum-100 at 8 to 14 MeV, Coulomb interactions in, (T), 24:43517
reactions (p,γ) with molybdenum-92 at 5 to 13 MeV, isomeric excitation functions for, (E), 23:40063
reactions (p,γ) with molybdenum-92 at 5 to 13 MeV, isomeric cross section ratio for, 24:20272(R) (NP-18091)
reactions (p,γ) with molybdenum-92 at 5.8 to 6.6 MeV with isobaric analog resonance excitation, excitation functions for, (E), 23:23676 (RLO-1388-93)
reactions (p,γ) with molybdenum-92 at 5.9 MeV with isobaric analog excitation, γ spectra from, (E), 25:28359
reactions (p,γ) with molybdenum-92 at 6 to 12 MeV, isomeric cross sections for, (E), 23:42793(R) (OU-LNS-69-2)
reactions (p,γ) with neon-20 at 0.98 to 2.2 MeV, (E), 25:7847 (ORNL-4513)
reactions (p,γ) with neon-20 at 0.98 to 2.2 MeV, γ spectra from, (E), 22:35293(R) (ORNL-4230)
reactions (p,γ) with neon-20 at 0.98 to 2.2 MeV, γ spectra from, (E), 22:42019(R) (MLM-1494)
reactions (p,γ) with neon-20 at 1 to 2.2 MeV, γ spectra for, (E), 23:37136 (MLM-1644)
reactions (p,γ) with neon-20 at 1.1 to 2.0 MeV, excitation functions and Q-value for, (E), 23:8971
reactions (p,γ) with neon-20 at 1.8 to 2.2 MeV, γ spectra from, (E), 25:38889 (NP-18862)
reactions (p,γ) with neon-20 at 3-MeV, Doppler-shift attenuation method for determining lifetime of second excited energy level of sodium-21 from, 23:49375
reactions (p,γ) with neon-20 at 6.8 to 7.2 MeV, γ spectra from, (E), 24:24533
reactions (p,γ) with neon-21 at 0.3 to 1.3 MeV, γ spectra and Q-value for, (E), 24:49787
reactions (p,γ) with neon-22 at 1 to 2 MeV, resonances in, (E), 22:11948(R) (NP-17216)
reactions (p,γ) with neon-22 at 1.3 MeV, γ spectra from, (E), 24:40577 (SUNI-10)
reactions (p,γ) with neon-22 at 1.3 to 2.6 MeV, gamma spectra from resonances in, (E), 25:53692

reactions (p,γ) with nickel-58 and nickel-62 at 1.10 to 1.85 MeV, γ triple correlations and Q-values for, (E), 22:27034
reactions (p,γ) with nickel-58 at 1.4 MeV, γ-ray angular distributions and Q-value for, (E), 25:20314
reactions (p,γ) with nickel-58 at 3.45 to 3.60 MeV, excitation functions for, (E), 25:5660
reactions (p,γ) with nickel-60 near 1.6 MeV, γ spectra and angular distributions for, (E), 25:59764
reactions (p,γ) with nitrogen-14 and oxygen-16 in lightning discharges, (T), 25:7397
reactions (p,γ) with nitrogen-14 at 0.97 to 1.96 MeV, gamma spectra from, (E), 22:11916
reactions (p,γ) with nitrogen-14 at 1.7 to 3.1 MeV, cross section for, (E), 23:28242(R) (ANU-P-434)
reactions (p,γ) with nitrogen-14 at 1.85 to 2.60 MeV, oxygen-16 energy levels from, (E), 21:23437
reactions (p,γ) with nitrogen-14 at 2 to 3 MeV, γ spectra from, (E), 22:32513(R) (ANU-P-400)
reactions (p,γ) with nitrogen-14 at 2.2 to 19 MeV, cross sections for, (E), 25:20277
reactions (p,γ) with nitrogen-15 at 0.4 to 1.9 MeV, gamma coincidence spectra from, (E), 22:32507
reactions (p,γ) with nitrogen-15 at 1 to 14 MeV, angular distributions and excitation functions for, (E), 21:15502
reactions (p,γ) with nitrogen-15 at 1.16 MeV, γ—γ coincidence spectra for, (E), 22:50532
reactions (p,γ) with nitrogen-15 at 10 to 18 MeV, excitation functions for, (E), 21:46680
reactions (p,γ) with nitrogen-15 at 4.1 to 12.8 MeV, gamma spectra from, (E), 25:9979
reactions (p,γ) with nitrogen-15 to ground state, imaginary potential for coupled-channel calculations on, (T), 23:5946(R) (ORO-3765-1)
reactions (p,γ) with nuclei at 10 to 50 MeV, Coulomb interactions in, (T), 24:43517
reactions (p,γ) with nuclei with isobaric analog excitation, method for analysis of, (T), 25:31276
reactions (p,γ) with nuclei, computer program for calculating yields from, (T), 25:36732 (NRL-7230)
reactions (p,γ) with nuclei, data acquisition and analysis system for experiments on, 23:4054 (NP-17611)
reactions (p,γ) with nuclei, design of cold trap for background suppression in resonance, 23:19100
reactions (p,γ) with nuclei, isobaric analog and dipole resonances in, (T), 21:25567 (NYO-3525-16)
reactions (p,γ) with nuclei, isobaric analog resonances in, 21:19293 (INSJ-102)
reactions (p,γ) with nuclei, nuclear structure research with, 24:38324
reactions (p,γ) with nuclei, particle—hole description of giant dipole and isobaric analog resonances in, (T), 23:15517
reactions (p,γ) with oxygen-16 at 0.15 to 2.5 MeV, cross-section calculations using direct two-body model, (T), 22:26830
reactions (p,γ) with oxygen-16, use for measuring proton beam energy and energy spread and oxygen distribution in metals, 25:50266
reactions (p,γ) with oxygen-18 at 1.085 MeV, use to measure oxygen self-diffusion in uranium dioxide, 25:16581
reactions (p,γ) with oxygen-18, yields from resonances in, (E), 23:44831
reactions (p,γ) with phosphorus-31 at 1.436 MeV, γ linear polarization from, (E), 23:13229
reactions (p,γ) with phosphorus-31 at 1.55 MeV, energy levels of sulfur-32 from, 25:20326
reactions (p,γ) with phosphorus-31 at 1.8 to 2 MeV, analysis of resonances in, (E), 25:20308
reactions (p,γ) with phosphorus-31 at 2 to 2.4 MeV, gamma spectra from, (E), 24:43198
reactions (p,γ) with phosphorus-31 at 2.1 MeV, excitation functions and spin-mixing coefficients from, (E), 25:5636
reactions (p,γ) with phosphorus-31, angular distributions and excitation functions for, (E), 25:17853
reactions (p,γ) with potassium-39 at 0.5 to 2.9 MeV, γ angular correlations and spectra from, (E), 22:22559 (NP-17384)
reactions (p,γ) with potassium-39 at 1 to 3 MeV, γ spectra and Q-value for, (E), 23:7264
reactions (p,γ) with potassium-39 at 1.03 to 1.75 MeV, excitation functions for, (E), 25:12437
reactions (p,γ) with potassium-39 at 1.1 to 2.1 MeV, γ triple angular correlations and polarization for, (E), 23:15404
reactions (p,γ) with potassium-39 at 1.24 to 1.58 MeV, γ spectra from, (E), 22:18123(R) (RLO-1925-11)
reactions (p,γ) with potassium-39 at 1.3 to 1.7 MeV, γ spectra from, (E), 23:1861
reactions (p,γ) with potassium-39 at 10 to 12 MeV, intermediate structure in cross section for, (E), 24:43300
reactions (p,γ) with potassium-39 at 2.6 to 2.8 MeV, excitation function for, (E), 25:45996
reactions (p,γ) with potassium-39 at 2.8 to 3 MeV, excitation function for, (E), 25:34061
reactions (p,γ) with potassium-39 at 2.9 to 6.0 MeV, excitation function for, (E), 22:39617
reactions (p,γ) with potassium-39, γ spectra for, (E), 23:28242(R) (ANU-P-434)
reactions (p,γ) with potassium-39, resonance γ spectra and Q-value for, (E), 23:7259
reactions (p,γ) with potassium-39, resonances in, (E), 22:11948(R) (NP-17216)
reactions (p,γ) with praseodymium-141, resonances in, (E), 25:43950
reactions (p,γ) with rubidium-87 and yttrium-89 at 4 to 15 MeV, yield curves for, (E), 24:6852
reactions (p,γ) with scandium-45 at 1377 and 1660 keV, resonances in, (E), 22:44670
reactions (p,γ) with selenium-80, γ spectra for, (E), 24:1785
reactions (p,γ) with silicon-28 at 1.4 MeV, γ spectra and angular distributions for, (E), 25:20357
reactions (p,γ) with silicon-28 at 725 keV, gamma spectra from, (E), 25:31250
reactions (p,γ) with silicon-28 near 2 MeV, angular distributions for, (E), 25:20319
reactions (p,γ) with silicon-29 and -30, resonances in, (E), 22:11948(R) (NP-17216)
reactions (p,γ) with silicon-29 at 0.3 to 1.8 MeV, γ spectra and angular correlations from, 24:15846
reactions (p,γ) with silicon-29 at 0.5 to 1.5 MeV, resonances in, (E), 22:32513(R) (ANU-P-400)
reactions (p,γ) with silicon-29 at 0.7 to 1.8 MeV, γ spectra from, (E), 25:45953
reactions (p,γ) with silicon-29 at 0.9 to 2.2 MeV, γ spectra from, (E), 25:28207 (ANU-P-517)
reactions (p,γ) with silicon-29 at 1.2 to 3.1 MeV, phosphorus-30 energy levels from, (E), 21:29935
reactions (p,γ) with silicon-29 at 1.3 to 1.9 MeV, (E), 25:1726
reactions (p,γ) with silicon-29 at 1.375 MeV, phosphorus-30 isobaric analog levels from, (E), 21:42600
reactions (p,γ) with silicon-29 at 1.4 to 2.2 MeV, cross section for, (E), 23:28242(R) (ANU-P-434)
reactions (p,γ) with silicon-29 at 1.47 to 1.85 MeV, γ decay of resonances in, (E), 22:29951
reactions (p,γ) with silicon-29 at 700 to 1750 keV, phosphorus-30 energy levels from, (E), 21:31754
reactions (p,γ) with silicon-29 at 900 to 2120 keV, γ spectra from, (E), 25:59760
reactions (p,γ) with silicon-29, resonance γ spectra from, (E), 25:14933
reactions (p,γ) with silicon-30 at 0.5 to 2.2 MeV, phosphorus-31 energy levels and transitions from, (E), 22:9823
reactions (p,γ) with silicon-30 at 0.5 to 2.3 MeV, γ spectra from, (E), 23:15400
reactions (p,γ) with silicon-30 at 1 to 2 MeV, γ angular distributions for, (E), 23:15426
reactions (p,γ) with silicon-30 at 1.1 to 2.2 MeV, γ angular correlations and spectra from, (E), 21:46701
reactions (p,γ) with silicon-30 at 2 to 3 MeV, γ angular correlations and spectra in, (E), 22:27028
reactions (p,γ) with silicon-30 at 2 to 3 MeV, resonance strengths and widths for, (E), 21:27542
reactions (p,γ) with silicon-30 at 2 to 4 MeV, resonance widths for, (E), 22:26932(R) (NP-17434)
reactions (p,γ) with silicon-30 at 3 to 4 MeV, angular distributions and γ—γ angular correlations for, (E), 23:13251
reactions (p,γ) with silicon-30 up to 2 MeV, Q value and gamma angular distributions and spectra from, (E), 25:28270
reactions (p,γ) with sodium-23 at 0 to 500 keV, (E), 21:2688
reactions (p,γ) with sodium-23 at 0.512 to 1.416 MeV, resonance strengths in, (E), 24:3887
reactions (p,γ) with sodium-23 at 1 to 1.4 MeV, γ-γ angular correlations for, (E), 24:3894
reactions (p,γ) with sodium-23 at 1.5 to 3 MeV, γ spectra for, (E), 24:1743(R) (COO-1120-88)
reactions (p,γ) with sodium-23 at 4 MeV, γ spectra from, (E), 21:38269
reactions (p,γ) with sodium-23 at 4 to 12.4 MeV, cross sections for, (E), 22:46741
reactions (p,γ) with sodium-23 at 4 to 13 MeV, in giant resonance region, (E), 22:5809(R) (ANL-7354)
reactions (p,γ) with sodium-23 at 5 to 14 MeV in giant resonance region, excitation functions and γ spectra for, (E), 21:38271
reactions (p,γ) with strontium-86 at 2.917 MeV, Q-value for, (E), 25:43836
reactions (p,γ) with strontium-86, strontium-88, and yttrium-89 at 3.9 MeV, γ spectra from, (E), 24:3941
reactions (p,γ) with strontium-88 and yttrium-89 at 2.3 to 3.0 MeV, cross sections, excitation functions, and spectra from, (E), 25:53661 (COO-1120-119)
reactions (p,γ) with strontium-88 with excitation of isobaric analog resonances, calculation of cross section for, (T), 23:28272 (ITF-68-84)
reactions (p,γ) with sulfur-32 at 0.475 to 3.215 MeV, γ angular distributions and spectra for, (E), 22:32514(R) (COO-1120-71)
reactions (p,γ) with sulfur-32 at 1.7 to 2.3 MeV, resonance widths and γ yields for, (E), 23:13228
reactions (p,γ) with sulfur-32 at 1.74 to 1.77 MeV, γ spectra for, (E), 22:11950(R) (ORO-3624-1)
reactions (p,γ) with sulfur-32 at 1.754 MeV, resonance in, (E), 22:22560(R) (ORO-1067-2)
reactions (p,γ) with sulfur-32 at 1880 to 1920 keV, resonances in, (E), 23:10937(R) (COO-1120-78)
reactions (p,γ) with sulfur-32 at 475 to 3215 keV, angular distributions and excitation functions for, (E), 23:23654
reactions (p,γ) with sulfur-32 near 1754 keV, resonance in, (E), 23:19254(R) (ORO-3624-7)
reactions (p,γ) with sulfur-32 near 1754 keV, resonance in, (E), 23:1882 (WASH-1093)
reactions (p,γ) with sulfur-32 near 1754 keV, resonance in, (E), 22:20578 (WASH-1079)
reactions (p,γ) with sulfur-33 at 1.0 to 1.3 MeV, Q-value and resonances in, (E), 24:18403
reactions (p,γ) with sulfur-34 and sulfur-36, γ angular correlations and spectra from, (E), 22:26994
reactions (p,γ) with sulfur-34 at 1.0 to 1.5 MeV, angular distributions from, (E), 25:12440
reactions (p,γ) with sulfur-34 at 1.0, 1.2, and 1.5 MeV, angular distributions, triple angular correlations, and polarization in, (E), 22:9829
reactions (p,γ) with sulfur-34 at 1.2 to 2.0 MeV, isobaric analog resonances in, (E), 22:26940
reactions (p,γ) with sulfur-34 at 1.5 to 3 MeV, chlorine-35 energy levels from, (E), 21:11981 (COO-1120-37)
reactions (p,γ) with sulfur-34 at 1.9 to 2.5 MeV, γ spectra from, (E), 21:38278
reactions (p,γ) with sulfur-34 at 1019, 1214, 1226, and 1267 keV, resonance widths for, (E), 23:23655
reactions (p,γ) with sulfur-34 at 2.079 MeV, chlorine-35 energy levels from, (E), 21:44627
reactions (p,γ) with sulfur-34 at 2.079 MeV, gamma spectra from, (E), 25:17817
reactions (p,γ) with sulfur-34 at 2.6 to 3.0 MeV, excitation function for, (E), 24:40577 (SUNI-10)
reactions (p,γ) with sulfur-34, angular distributions, triple correlations, and polarization in, (E), 22:9831
reactions (p,γ) with sulfur-34, chlorine-35 energy levels from, (E), 21:5500 (COO-1120-31)
reactions (p,γ) with sulfur-34, chlorine-35 energy-level spins and transitions from, (E), 21:15539
reactions (p,γ) with sulfur-36 at 0.79 to 1.82 MeV, chlorine-37 energy levels from, (E), 21:9954 (AD-633731)
reactions (p,γ) with sulfur-36 at 0.79 to 1.82 MeV, chlorine-37 energy levels from, (E), 21:1067
reactions (p,γ) with sulfur-36 at 0.80 to 1.94 MeV, resonance parameters and Q-values for, (E), 22:29963
reactions (p,γ) with sulfur-36 at 1.4 to 2.1 MeV, gamma angular distributions and energies from, (E), 21:29934
reactions (p,γ) with sulfur-36 at 1.89 MeV, isobaric analog resonances in, (E), 21:19209
reactions (p,γ) with sulfur-36 at 2.05 to 2.30 MeV, excitation function for, (E), 22:39618
reactions (p,γ) with sulfur-36 at 2.05 to 3.20 MeV, resonances in, (E/T), 21:33919
reactions (p,γ) with sulfur-36, chlorine-37 energy levels from, (E), 22:9807
reactions (p,γ) with sulfur-36, energy levels from, (E), 24:52531
reactions (p,γ) with titanium-46 at 1.363-MeV resonance, gamma branching ratio in, (E), 25:17845
reactions (p,γ) with titanium-46 at 1350 to 2280 keV, excitation function for, (E), 25:59752
reactions (p,γ) with titanium-46, gamma angular distributions and Q value for, (E), 24:35842
reactions (p,γ) with titanium-46, γ spectra and Q-value for, (E), 22:20514
reactions (p,γ) with titanium-48 and -50 at 1 to 1.4 MeV, γ-ray yields from, (E), 24:49791
reactions (p,γ) with titanium-48 at 1 to 1.4 MeV, excitation functions for, (E), 24:13338
reactions (p,γ) with titanium-48 at 1 to 1.4 MeV, γ spectra for, (E), 23:49367
reactions (p,γ) with titanium-48 at 1.0 to 1.4 MeV, γ spectra for, (E), 22:20502
reactions (p,γ) with titanium-48 at 1.0 to 1.4 MeV, γ spectra from isobaric analog resonances in, (E), 22:44631
reactions (p,γ) with titanium-48 at 1.3 to 2.3 MeV, resonances in, (E), 22:41991
reactions (p,γ) with titanium-48 at 1.315 to 2.135 MeV, excitation functions for, (E), 25:38936
reactions (p,γ) with titanium-48 at 1358 to 1370 MeV, excitation function for, (E), 25:53608(R) (NP-18698)
reactions (p,γ) with titanium-50 at 1.3 to 1.4 MeV, excitation function for, (E), 25:28226
reactions (p,γ) with titanium-50 at 1.3 to 2.7 MeV, excitation functions, angular distributions, and gamma spectra from, (E), 25:5651
reactions (p,γ) with titanium-50 at 1.4 MeV, excitation function for, (E), 24:28754
reactions (p,γ) with titanium-50 at 1363 to 1379 keV, excitation function for, (E), 25:53608(R) (NP-18698)
reactions (p,γ) with tritium at 156 MeV, analysis using impulse approximation, (E/T), 23:25798
reactions (p,γ) with tritium at 156 MeV, differential cross section for, (E), 23:25796
reactions (p,γ) with vanadium-51 at 0.8 to 3.0 MeV, excitation functions for, (E), 25:31256
reactions (p,γ) with vanadium-51 at 1.217 to 2.333 MeV, radiation widths from, (E), 25:38936
reactions (p,γ) with yttrium-89 and strontium-89 at 2.3 to 3.0 MeV, gamma spectra and excitation function for, (E), 25:34027
reactions (p,γ) with yttrium-89 at 12 to 14 MeV, giant dipole resonance in, (E), 21:44677
reactions (p,γ) with yttrium-89 at 2.6 to 19.0 MeV, cross section at 90° for, (E), 23:49430
reactions (p,γ) with yttrium-89 at 4 to 18 MeV, differential cross section for, (E), 22:7685
reactions (p,γ) with zirconium-90 at 21.85 to 23.0 Mev, giant dipole resonance in, (E), 21:1113
reactions (p,γ) with zirconium-90 at 3.0 to 7.2 MeV, gamma spectra from, (E), 25:31351
reactions (p,γ) with zirconium-90 at 7 MeV, γ decay of isobaric analog resonance in, (E), 22:53186
reactions (p,γ)^{3}He with deuterium, cross sections for, 22:5140
reactions (p,γ)2α with lithium-7 at 0.4 5o 1.4 MeV, cross sections and branching ratios for, (E), 22:50535
reactions (p,γ_0) with potassium-39 at 2.5 to 60 MeV, excitation functions for, (E), 24:13321
reactions (p,γα) with lithium-7 at 441-keV resonance, triple correlations in, (E), 22:32513(R) (ANU-P-400)
reactions (p,γγ) with nuclei, triple angular correlation contour plots for, 21:7849
reactions (p,γp') with carbon-12 at 1.2 to 2.4 MeV, total cross section for, (E/T), 23:15515
reactions (p,He-3) and (p,pd) with lithium-6, Hartree—Fock calculations with parity mixing for, (T), 23:31064
reactions (p,He-3) and (p,t) at 156 MeV, two-nucleon final state interactions in, (E), 25:17696
reactions (p,He-3) and (p,t) with aluminum-27 and phosphorus-31 at 40.3 MeV, analog states from, (E), 21:25470
reactions (p,He-3) and (p,t) with aluminum-27 at 40 MeV, angular distributions and spectra from, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,He-3) and (p,t) with argon-36 at 45 MeV, angular distributions for, (E), 24:6857
reactions (p,He-3) and (p,t) with beryllium-9 and lithium-7 at 43.7 MeV, (E), 21:9944
reactions (p,He-3) and (p,t) with boron-11 at 45 MeV, angular distributions for, (E), 25:31228

reactions (p,He-3) and (p,t) with carbon-13 at 44 and 51 MeV, helium-3 and triton spectra and angular distributions for, (E), 23:15358
reactions (p,He-3) and (p,t) with carbon-13 at 44 and 50 MeV, differential cross sections and spectra for, (E), 22:1599 (UCRL-17790)
reactions (p,He-3) and (p,t) with carbon-14, oxygen-17, oxygen-18, neon-20, and neon-22 at 39.8 MeV, DWBA analysis of, (E/T), 25:17710
reactions (p,He-3) and (p,t) with chlorine-35 and -37 at 40 MeV, (E), 25:17753
reactions (p,He-3) and (p,t) with fluorine-19 at 40 MeV, spectra from, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,He-3) and (p,t) with fluorine-19 at 46 MeV, angular distributions for, (E), 23:28246(R) (USC-136-146)
reactions (p,He-3) and (p,t) with fluorine-19 at 45 MeV, angular distributions for, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,He-3) and (p,t) with fluorine-19, angular distributions for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,He-3) and (p,t) with fluorine-19, DWBA analysis of, (E), 25:33954(R) (USC-136-X-1)
reactions (p,He-3) and (p,t) with helium-4 at 156 MeV, differential cross sections and spectra for, (E), 21:44555
reactions (p,He-3) and (p,t) with helium-4 at 156 MeV, final state interactions in, (E), 23:25831
reactions (p,He-3) and (p,t) with helium-4 at 47 MeV, PWBA analysis of, (T), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,He-3) and (p,t) with magnesium-26, angular distributions for, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,He-3) and (p,t) with neon-22 at 45 MeV, spectra from, (E), 24:43576
reactions (p,He-3) and (p,t) with nickel-58 at 45 MeV, spectra and angular distributions for, (E), 25:7808 (UCRL-19530, pp 53-106)
reactions (p,He-3) and (p,t) with nickel-58 at 45 MeV, angular distributions for, (E), 25:7841
reactions (p,He-3) and (p,t) with nitrogen-15 and oxygen-16 at 43.8 MeV using polarized beams, cross sections and asymmetries for, (E), 24:52464
reactions (p,He-3) and (p,t) with nitrogen-15 and oxygen-16 at 43.8 MeV using polarized beam, angular distributions of analyzing power for, (E), 25:53658
reactions (p,He-3) and (p,t) with nitrogen-15 at 44 MeV, differential cross sections and spectra for, (E), 22:1599 (UCRL-17790)
reactions (p,He-3) and (p,t) with nuclei, cross-section calculations using distorted-wave Born approximation with spin-dependent potential, 21:38408
reactions (p,He-3) and (p,t) with oxygen-16 at 49.5 MeV, effects of beam polarization on differential cross sections for, (E), 25:17715
reactions (p,He-3) and (p,t) with oxygen-16 at 49.5 MeV leading to mirror states, polarization analyzing powers and differential cross sections of, 24:43121
reactions (p,He-3) and (p,t) with oxygen-16 at 49.5 MeV using polarized beam, DWBA analysis of, (E/T), 25:53659
reactions (p,He-3) and (p,t) with oxygen-17 at 40 MeV, relative differential cross sections for, (E), 24:5389(R) (COO-1265-83)
reactions (p,He-3) and (p,t) with phosphorus-31 at 40 MeV, angular distributions and spectra from, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,He-3) with aluminum-27, carbon-12, fluorine-19, magnesium-25, nitrogen-14, and oxygen-16 at 40 MeV, diffraction-model analysis of, (T), 22:20728
reactions (p,He-3) with bismuth-209 at 40 MeV, angular distributions for, (E), 25:36777
reactions (p,He-3) with boron-10 at 49.5 MeV, differential cross sections for, (E/T), 25:17688
reactions (p,He-3) with boron-10, beryllium-8 energy levels from, (E), 21:29880(R) (ANU-P-379)
reactions (p,He-3) with boron-11, carbon-12, and oxygen-16 at 185 MeV, angular distributions for, (E), 22:37628 (ISS-68/1)
reactions (p,He-3) with calcium-42 at 40.0 MeV, angular distributions for, (E), 24:43200
reactions (p,He-3) with carbon-12, angular distributions for, (T), 22:42131
reactions (p,He-3) with fluorine-19, angular distributions of differential cross sections for, (E), 22:26908
reactions (p,He-3) with lithium-6 at 0.4 to 3.2 MeV using polarized beams, polarization analyzing power for, (E), 22:48462
reactions (p,He-3) with lithium-6 at 0.5 to 1.8 MeV, angular distributions for, (E), 24:43163
reactions (p,He-3) with lithium-7 at 30.2 MeV, differential cross sections for, (E), 21:7695 (USC-136-112)
reactions (p,He-3) with lithium-7, coincidence spectra for, (E), 22:13930
reactions (p,He-3) with magnesium-24, sodium-22 yields in, (E), 21:44616
reactions (p,He-3) with nuclei with 12 less than or equal to A less than or equal to 27, differential cross sections for, (E), 21:5435(R) (TID-23395)
reactions (p,He-3) with nuclei, tables of structure amplitudes for, (T), 23:34808 (UCRL-18269)
reactions (p,He-3) with potassium-39 at 45 MeV, argon-37 mass and energy levels from, (E), 22:20555
reactions (p,He-3p) with helium-4 at 47 MeV, np singlet scattering length from, (E/T), 25:5533
reactions (p,He-4) with beryllium-9 and boron-11, mechanisms for differential cross sections and angular distributions for, (E), 25:59711 (UCLA-10-P-18-32)
reactions (p,He-4) with lithium-6 at 30.2 MeV, differential cross sections for, (E), 21:7695 (USC-136-112)
reactions (p,He-6) and (p,Li-6) with beryllium-9 at 45 MeV, angular distributions for, (E), 24:49775
reactions (p,He-6) with magnesium-24 and silicon-28 at 55 MeV, energy spectra for, (E), 23:21311
reactions (p,Li-6) and (p,Li-7) with carbon-13 at 45 MeV, differential cross sections for, (E), 25:33998
reactions (p,Li-6) and (p,Li-7) with scandium-45 at 46 MeV, energy spectra from, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,Li-6) with carbon-12 at 36, 41, and 45 MeV, angular distributions for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,Li-6) with carbon-12 at 45 MeV, differential cross section for, (E), 25:25629(R) (UCD-CNL-125)
reactions (p,Li-6) with carbon-12 at 45 MeV, differential cross sections for, (E), 25:33998
reactions (p,n) and (p,2n) on copper-63 and iron-56 at 100 to 400 MeV, cross sections for, (E), 21:40397(R) (NYO-2897-22)
reactions (p,n) and (p,2n) with A = 27 to 197 nuclei at 7.0 to 15.0 MeV, (E), 21:9979
reactions (p,n) and (p,2n) with cadmium, chromium, molybdenum, scandium, and tungsten at 8 to 14 MeV, cross sections for, (E), 22:5843
reactions (p,n) and (p,2n) with cerium-140 at 5 to 15 MeV, excitation functions for, (E), 21:2733
reactions (p,n) and (p,2n) with chromium-52, copper-63, selenium-77, and tellurium-124 at 400 MeV, cross sections for, (E), 23:37159
reactions (p,n) and (p,2n) with copper-63 and iron-56 at 100 to 400 MeV, analysis for reaction mechanism, 24:18402
reactions (p,n) and (p,2n) with copper-63 at 1.0 GeV, angular distributions and mechanisms for, (E), 24:22124
reactions (p,n) and (p,2n) with erbium, tantalum, terbium, and ytterbium isotopes at 17.5 MeV, production of isomers by, (E), 22:1676
reactions (p,n) and (p,2n) with heavy nuclei at 17.5 MeV, production of isomers by, (E), 21:38370
reactions (p,n) and (p,2n) with iron-56 and copper-63 at 100 to 400 MeV, cross sections for, (E), 23:37137(R) (NYO-2897-35)
reactions (p,n) and (p,2n) with medium and heavy nuclei, conversion electron spectra from, (E), 24:18429
reactions (p,n) and (p,2n) with nuclei at 400 MeV, model analysis of, (T), 25:23098
reactions (p,n) and (p,2n) with Z = 13 to 79 nuclei at 7 to 15 MeV, excitation functions for, (E), 21:7718
reactions (p,n) and (p,α) with oxygen-18 at 3 to 7 MeV, excitation functions for, (E), 23:28242(R) (ANU-P-434)
reactions (p,n) and (p,α) with oxygen-18 up to 3.2 MeV, yield curves for, (E), 23:19254(R) (ORO-3624-7)
reactions (p,n) and (p,γ) with manganese-55 at 1.30 to 1.85 MeV, isobaric analog resonances in, (E), 22:18191
reactions (p,n) and (p,nγ) with calcium-48 at 1.9 to 2.0 MeV with excitation of isobaric analog resonances, excitation functions for, (E), 23:25879
reactions (p,n) and (p,nγ) with cobalt-59 at 2.4 to 3.3 MeV, gamma spectra and comparison of Hauser—Feshbach theory with neutron and gamma yields from, (E/T), 25:12476
reactions (p,n) and (p,nγ) with gallium-71 at 1.5 to 3.1 MeV, cross sections and γ energies and intensities for, (E), 24:30730
reactions (p,n) and (p,nγ) with gallium-71 to 3 MeV, gamma spectra from, (E), 24:47589
reactions (p,n) and (p,nγ) with vanadium-51 at 2.2 to 3.2 MeV with excitation of isobaric analog resonances, γ and neutron spectra for, (E), 23:25850 (CONF-690310-4)
reactions (p,n) and (p,nγ) with vanadium-51 at 2.4 to 3.3 MeV, comparison of Hauser—Feshbach theory with neutron cross sections and gamma angular distributions and anisotropies from, (E/T), 25:12476
reactions (p,n) and (p,np) with bismuth-209 at 24 to 30 MeV, ground-state studies by, (E/T), 25:10045
reactions (p,n) and (p,pxn) with iodine-127 up to 80 MeV, mechanisms and cross sections for, (E), 22:53212
reactions (p,n) in stars, rates for, (T), 23:44041
reactions (p,n) molybdenum-94, molybdenum-95, molybdenum-96, molybdenum-97, molybdenum-98, zirconium-92, and zirconium-94, excitation functions and γ—γ coincidence spectra for, (E), 23:1879 (ORNL-4306, pp 1-21)
reactions (p,n) on nuclei with excitation of isobaric analog resonances, cross-sections calculations using internal Coulomb mixing, (T), 23:9045
reactions (p,n) populating isobaric analog states, method for angular distribution measurements of, 25:37593
reactions (p,n) with A = 10 to 58 nuclei at 5 to 10 MeV, threshold energies and Q-value for, (E), 23:21283
reactions (p,n) with A = 117 through 124 tin isotopes, at 2.5 to 5.5 MeV, proton strength functions for, (E), 23:25813 (ORNL-TM-2543)
reactions (p,n) with A = 2 to 27 nuclei at 30 to 50 MeV, cross sections and spectra from, (E), 25:45874
reactions (p,n) with A = 26 to 165 nuclei at 23 MeV, spectra and DWBA analysis of angular distributions from, (E), 25:59789
reactions (p,n) with A = 45 to 59 nuclei at 15.2 and 18.5 MeV, effects of radial shape of isospin potential on optical-model analysis of, (T), 25:45974
reactions (p,n) with A = 6 through 13 nuclei at 30 and 50 MeV, neutron spectra and angular distributions for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,n) with A = 65 to 81 nuclei, isobaric analog resonances in, (E), 21:27574(R) (NYO-GEN-72-132)
reactions (p,n) with A = 65 to 82 nuclei at 3.2 to 5.4 MeV, neutron spectra from, (E), 24:35847
reactions (p,n) with A = 67 to 125 nuclei at 12.8 to 18 MeV with proton emission, proton spectra and angular distributions for, (E), 25:23008
reactions (p,n) with A = 90 to 209 nuclei, cross sections for, (E/T), 21:23534(R) (ANL-7246)
reactions (p,n) with aluminum-27, beryllium-9, indium-115, iron-56, lead-208, nitrogen-14, and tantalum-181 at 15 and 18 MeV, neutron yields from, (E), 21:46643(R) (ORNL-4134)
reactions (p,n) with aluminum-27, carbon-13, fluorine-19, iron-54, lithium-7, and nickel-58, threshold energies for, (E), 23:49346
reactions (p,n) with aluminum-27, counter-ratio system for detecting thresholds of, 21:26169
reactions (p,n) with aluminum-27, oxygen-17, and oxygen-18 at 7 to 13.5 MeV, angular distributions for, (E), 23:25819
reactions (p,n) with argon-36 at 13.86 to 14.14 MeV, excitation functions for, (E), 25:43875
reactions (p,n) with argon-40 from threshold to 5 MeV, excitation functions for, (E), 22:44667
reactions (p,n) with arsenic-75 and chromium-53, Hauser—Feshbach analysis of angular distributions and excitation functions for, (E/T), 25:31248
reactions (p,n) with arsenic-75 at 2 to 5 MeV, isobaric analog resonances in, (E), 21:33931
reactions (p,n) with arsenic-75 at 3 and 3.2 MeV, neutron spectra from, (E), 25:28241
reactions (p,n) with arsenic-75 at 3.5 MeV, γ spectra for, (E), 23:1854
reactions (p,n) with arsenic-75 below 3 MeV, statistical model analysis of, (E), 25:31263
reactions (p,n) with arsenic-75, bromine-79, bromine-80, copper-65, germanium-74, germanium-76, selenium-80, and zinc-70, isobaric analog resonances in, (E), 22:20578 (WASH-1079)
reactions (p,n) with barium-138 and hafnium-180 in preplanetary solar system, (E), 24:28001
reactions (p,n) with beryllium target at 14 MeV, production of fast neutrons in, 24:50
reactions (p,n) with beryllium-9 and lithium-7 near threshold, angular distributions for, (E/T), 21:12013(R) (EANDC(OR)-44(L))
reactions (p,n) with beryllium-9 at 12 MeV, angular distributions for, (E), 25:45912 (CEA-N-1390, pp 91-137)
reactions (p,n) with beryllium-9 at 2.0 to 2.1 MeV, anomaly near threshold for, (E), 22:39582
reactions (p,n) with beryllium-9 at 2.8 to 4.1 MeV, neutron angular distributions from, (E), 25:17744
reactions (p,n) with beryllium-9 at 20 MeV, neutron spectra from, (E), 21:40377
reactions (p,n) with beryllium-9 at 3.87, neutron energy spectrum from, (E), 21:38225
reactions (p,n) with beryllium-9 at 7.5 MeV, boron-9 energy levels from, (E), 21:4220
reactions (p,n) with beryllium-9 near 2 MeV, cross section for, (E), 25:1717
reactions (p,n) with beryllium-9 near 2.1 MeV, cross section for, (E), 24:22088
reactions (p,n) with boron, carbon, and nitrogen isotopes at 180 MeV, mechanism of single-charge exchange in, 22:39599
reactions (p,n) with boron-10 at 7.2 to 11.4 MeV, γ spectra from, (E), 24:6841
reactions (p,n) with boron-11 and carbon-13, target chamber for measuring threshold energies of, 23:19026 (ANU-P-414)
reactions (p,n) with boron-11 at 0.15 and 3.0 GeV, cross sections for, (E), 21:7707
reactions (p,n) with boron-11 at 150 MeV to 3 GeV, cross sections for, (E), 22:21356 (CEA-R-3376)
reactions (p,n) with boron-11 at 5.4 MeV, angular distribution of neutron polarization from, (E), 21:21427
reactions (p,n) with boron-11 at 5.4 to 7.4 MeV, neutron polarization from, (E), 21:29898
reactions (p,n) with boron-11, carbon-13, nitrogen-14, and oxygen-18 from fast neutron reactions, average cross sections for, (E), 22:26932(R) (NP-17434)
reactions (p,n) with boron-11, production of carbon-11 by, 23:43345
reactions (p,n) with bromine-79 and bromine-81, isomeric excitation functions in, 23:44758
reactions (p,n) with bromine-79 at 6 MeV, γ spectra from, (E), 22:13958
reactions (p,n) with cadmium-11, cadmium-113, tin-117, and tin-119 at 5.4 MeV, angular distributions for, (E), 23:37270
reactions (p,n) with cadmium-110, cadmium-111, cadmium-113, selenium-77, tellurium-123, tellurium-125, tin-115, tin-116, and zinc-67 at 15.5 to 18.0 MeV, isobaric analog states from, (E), 22:30048(R) (PUC-937-307)
reactions (p,n) with cadmium-111 at 4.2 to 5.4 MeV, neutron time-of-flight spectra and angular distributions for, (E), 23:37271
reactions (p,n) with calcium isotopes at 4.0 to 5.5 MeV, scandium—isotope energy levels from, (E), 21:31740
reactions (p,n) with calcium-41, gamma Doppler shifts from, (E), 21:35445
reactions (p,n) with calcium-42 at 7.89 and 8.98 MeV, gamma spectra from, (E), 25:53675
reactions (p,n) with calcium-43 at 18 MeV, production of isomeric scandium-43 by, (E), 21:33917
reactions (p,n) with calcium-43, -44, and -48 at 4.0 to 5.5 MeV, angular distributions and time-of-flight spectra for, (E), 22:11948(R) (NP-17216)
reactions (p,n) with calcium-43, calcium-44, and calcium-48, activation cross sections for, (E), 22:26932(R) (NP-17434)
reactions (p,n) with calcium-44 at 6 to 85 MeV, isomeric cross section ratio for, (E), 23:37139
reactions (p,n) with calcium-48 at 1.2 to 4 MeV, γ and neutron time-of-flight spectra for, (E), 23:1857
reactions (p,n) with calcium-48 at 1.90 to 2.05 MeV, cross section for, (E), 25:50704
reactions (p,n) with calcium-48 at 1.96 to 1.98 MeV, neutron time-of-flight spectra from, (E), 24:40577 (SUNI-10)
reactions (p,n) with calcium-48 at 2 MeV, neutron time-of-flight spectra for, (E), 23:39941(R) (NP-17890)

reactions (p,n) with calcium-48 at 4.03 to 5.63 MeV, scandium-48 and -49 energy levels from, 21:31741
reactions (p,n) with calcium-48 at 4.5 and 5.5 MeV, neutron spectra and Q-value for, (E), 22:41984
reactions (p,n) with calcium-48 at 5.5 MeV, γ spectra and yields for, (E), 22:26996
reactions (p,n) with calcium-48 at threshold to 3 MeV, γ angular correlations and spectra for, (E), 22:26997
reactions (p,n) with calcium-48, scandium-48 energy levels from, (E), 22:5817(R) (NYO-GEN-72-28)
reactions (p,n) with carbon-12 and oxygen-17, DWBA analysis with two-body tensor forces and central forces, (T), 22:50560(R) (RLO-1062-681)
reactions (p,n) with carbon-12 at 18.9 to 50 MeV, resonances in, (E), 22:15963
reactions (p,n) with carbon-13 and nitrogen-14 at 12 MeV, compound-nucleus cross section for, (T), 23:9044
reactions (p,n) with carbon-13 and nitrogen-14, analysis using realistic interaction including tensor knock-out amplitudes, (T), 24:22099
reactions (p,n) with carbon-13 at 3 to 6 MeV, cross section evaluations, 21:7697
reactions (p,n) with carbon-13 at 3.2 to 3.4 MeV, neutron yields from, (E), 21:25518 (WASH-1071)
reactions (p,n) with carbon-13, heavy-particle stripping contribution in, (T), 21:19313
reactions (p,n) with carbon-13, nitrogen-14, and oxygen-18, recoil, (E), 21:19190
reactions (p,n) with carbon-13, S-matrix theory of, (T), 25:39074
reactions (p,n) with carbon-14 at 20 and 30 MeV, cross sections for, (E), 24:52566(R) (ORNL-4534)
reactions (p,n) with carbon-14 at 5.7 to 13.7 MeV, cross sections for, (E/T), 21:19296 (UCRL-50001-66-1, pp 1-40)
reactions (p,n) with carbon-14 at 6 to 14 MeV, two-body force DWBA analysis of, (E/T), 21:40385
reactions (p,n) with carbon-14 at 7 to 14 MeV, angular distributions for, (E/T), 21:12027(R) (UCRL-50001-66-2)
reactions (p,n) with carbon-14 at 7.2 to 13.3 MeV, DWBA analysis of polarization and angular distributions including tensor component, (E/T), 25:45919
reactions (p,n) with carbon-14, nitrogen-15, oxygen-17, and -18, DWBA analysis using tensor force, (T), 23:44841
reactions (p,n) with cerium-142 at 5 to 15 MeV, excitation function for, (E), 21:2733
reactions (p,n) with chlorine-35, argon-35 beta end-point determination from threshold measurement in, (E), 23:39988
reactions (p,n) with chlorine-35, threshold energy for, (E), 22:50562
reactions (p,n) with chlorine-37 at 1.6 to 2.5 MeV, excitation function for, (E), 25:50703
reactions (p,n) with chromium-53 at 2.3, 2.4, and 2.5 MeV, n-γ angular correlations in, (E), 21:42579
reactions (p,n) with chromium-53, cobalt-59, copper-63, nickel-61, and nickel-62 at 6.8, neutron angular distributions and spectra from, (E), 22:1632
reactions (p,n) with chromium-53, cobalt-59, copper-65, iron-58, manganese-55, molybdenum-96, and vanadium-51, time-of-flight spectra for, (E), 21:46643(R) (ORNL-4134)
reactions (p,n) with chromium-54 at 2.4 to 2.7 MeV, total neutron yield from, (E), 25:38947
reactions (p,n) with chromium-54 at 2.7 MeV, conversion-electron and γ spectra for, (E), 23:23670
reactions (p,n) with chromium-54 at 2.7 MeV, γ and conversion-electron spectra for, (E), 23:1822 (INP-626)
reactions (p,n) with cobalt and vanadium at 17 MeV, neutron spectra from, (E), 25:36676
reactions (p,n) with cobalt-59 and vanadium-51 at 7.8 to 14.7 MeV, neutron spectra from, (E), 25:28285
reactions (p,n) with cobalt-59 at 2 to 4 MeV, gamma spectra from, (E), 21:44611(T) (ORNL-tr-1739)
reactions (p,n) with cobalt-59 at 3.1 to 5.2 MeV, gamma angular distributions from, (E), 22:32549
reactions (p,n) with cobalt-59 at 4.05 to 5.23 MeV, neutron angular distributions from, (E), 21:46709
reactions (p,n) with cobalt-59 at 4.3 to 6.0 MeV, gamma spectra from, (E), 21:46643(R) (ORNL-4134)
reactions (p,n) with cobalt-59 at 6 to 6.3 MeV, neutron spectra from, (E), 24:35843
reactions (p,n) with cobalt-59, cobalt-60 isobaric analog states in, (E), 21:11998
reactions (p,n) with copper-63 and copper-65 at 6 to 12 MeV, cross sections for, (E), 22:39586
reactions (p,n) with copper-63 and zinc-68, γ angular distributions from, (E), 22:18187
reactions (p,n) with copper-63 at 3.1 to 5.2 MeV, gamma angular distributions from, (E), 22:32549
reactions (p,n) with copper-63, copper-65, iron-56, titanium-47, titanium-49, and zinc-68, conversion-electron and γ spectra from, (E), 22:11935
reactions (p,n) with copper-63, iron-56, lead-204 and -206, and nickel-60 and -61 at 50 MeV, gamma energy and half-life measurements on, 21:38265
reactions (p,n) with copper-65 at 2.6 to 3.1 MeV, electromagnetic branching in zinc-65 from, (E), 25:17804
reactions (p,n) with copper-65 at 2.80 to 4.50 MeV, angular distributions, cross sections, and gamma spectra from, (E), 25:3631
reactions (p,n) with copper-65 at 4.36 MeV, use of n—γ discriminator for analysis of, 21:45362 (LYCEN-6738, pp 155-75)
reactions (p,n) with deuterium at 20 MeV, n-n scattering length from, (E), 22:50526
reactions (p,n) with deuterium at 30 and 50 MeV, neutron energy spectra for, (E), 23:7217
reactions (p,n) with deuterium at 30 to 150 MeV, polarization transfer in, (T), 22:22544
reactions (p,n) with deuterium at 45.5 MeV, analysis using Faddeev method, (T), 24:5384
reactions (p,n) with deuterium at 45.5 MeV, analysis using Faddeev method with Coulomb force, (T), 25:31188
reactions (p,n) with deuterium at 45.5 MeV, angular distribution for, (E), 22:41941
reactions (p,n) with deuterium at 45.5 MeV, neutron angular and energy distributions from, (E), 21:19172
reactions (p,n) with deuterium at 46 MeV, angular distributions and neutron energy spectra for, (E/T), 23:10928 (UCLA-10-P-18-10)
reactions (p,n) with deuterium at 46 MeV, differential cross section and neutron spectra for, (E), 22:26807
reactions (p,n) with deuterium at 6.5 to 13 MeV, proton energy spectra from, (E), 24:6825
reactions (p,n) with deuterium at 9 MeV, (T), 21:42551 (ITEF-501)
reactions (p,n) with deuterium at 95.7 and 143.9 MeV, forward cross sections for, (E), 21:37687
reactions (p,n) with deuterium at 96 and 144 MeV, fast-neutron forward production cross sections for, 21:27517
reactions (p,n) with deuterium, lithium-6, and lithium-7 at 30 and 50 MeV, polarization in, (E/T), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,n) with deuterium, lithium-6, and lithium-7 at 25 to 100 MeV, impulse approximation calculations of polarization transfer in, 25:17714
reactions (p,n) with deuterium, lithium-6, and lithium-7 at 30 and 50 MeV using polarized beams, neutron polarization from, (E), 23:49318
reactions (p,n) with deuterium, mechanism of, (T), 22:5760
reactions (p,n) with even A = 58 through 68 nuclei at 10.4 to 12 MeV with isobaric analog excitations, neutron spectra and Q-values for, 23:39976(R) (ORNL-4395)
reactions (p,n) with f($^{7}/_{2}$)-shell A = 45-to-58 nuclei at 13 MeV, Coulomb displacement energies of analog states from, (E), 21:25480
reactions (p,n) with fluorine-19 at 4 to 6 MeV, cross section and γ spectra for, (E), 23:8952
reactions (p,n) with fluorine-19 at 4.23 to 6.01 MeV, absolute total cross section for, (E), 22:41956
reactions (p,n) with fluorine-19 at 6.8 MeV, neutron angular distributions from, (E), 22:1632
reactions (p,n) with germanium-72 at 5.2 to 5.9 MeV, conversion electron spectra from, (E), 24:13313 (TID-25300)
reactions (p,n) with germanium-74 at 3.5 to 5.2 MeV, gamma spectra from, (E), 25:25680
reactions (p,n) with germanium-74, praseodymium-141, silver-107, and silver-109 at 3 to 10 MeV, (E), 21:2699
reactions (p,n) with germanium-76 at 2.9 MeV, conversion-electron and gamma spectra from, (E), 25:50670
reactions (p,n) with heavy nuclei, isobaric analog states in, (T), 21:10087
reactions (p,n) with helium-3 and tritium at 30 and 50 MeV, resonances in neutron spectra from, (E), 24:8833
reactions (p,n) with helium-3 and tritium at 30 and 50 MeV, resonances in spectra from, (E), 24:52389
reactions (p,n) with helium-3 at 24.9 MeV, neutron spectra for, (E), 23:44823
reactions (p,n) with helium-3 at 50 MeV, neutron spectra for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,n) with indium and tin isotopes at 2.5 to 5.5 MeV, cross sections for, (E), 23:39976(R) (ORNL-4395)
reactions (p,n) with indium-115 at 6 to 12 MeV, analysis for precompound particles in, (T), 25:50773
reactions (p,n) with indium-115, (E), 21:23477
reactions (p,n) with iodine-127 at 9 to 12 MeV, production of xenon-127 by, (E), 22:30028
reactions (p,n) with iron-54 and nickel-58, angular distributions and spectra for, (E), 21:29951
reactions (p,n) with iron-54 at 23 MeV, central—tensor force admixture for, (E/T), 25:38972(R) (COO-535-620)
reactions (p,n) with iron-54, counter-ratio system for detecting thresholds of, 21:26169
reactions (p,n) with lanthanum-139 at 10 to 50 MeV, cross section for, 23:42793(R) (OU-LNS-69-2)
reactions (p,n) with lead-208 and tin-120 to isobaric analog states at 30 and 50 MeV, angular distributions for, 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,n) with lead-208 at 30 to 50 MeV with proton emission, study of isobaric analog resonances in, (E), 24:43452
reactions (p,n) with lead-208 at 30.5 MeV, differential cross sections for, (E), 25:53766
reactions (p,n) with lead-208, gamma spectra from, (E), 24:43372
reactions (p,n) with lead-208, proton-neutron hole interaction theory of, 21:17402
reactions (p,n) with light and medium-weight nuclei, effective two-body force from DWBA analysis of,(T), 22:27363
reactions (p,n) with lithium at 1.9 to 3.03, relativistic tables of neutron energies from, (T), 23:37096 (AECD/EP-17)
reactions (p,n) with lithium-6 and -7 at 10 to 20 MeV, charge exchange part of effective two-body interactions from, (E/T), 24:38111
reactions (p,n) with lithium-6 and lithium-7 at 30 and 50 MeV, angular distributions for, (E), 23:3949
reactions (p,n) with lithium-6 and lithium-7, neutron spectra from, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,n) with lithium-6 at 1.8 to 11 MeV, beryllium-6 energy levels from, (E), 21:4216
reactions (p,n) with lithium-6 at 8 to 18 MeV, angular distributions for, (E), 22:41964
reactions (p,n) with lithium-6, analysis using impulse approximation, (T), 23:49342
reactions (p,n) with lithium-7 at 0.9 to 1.9 MeV, excitation function and threshold energy for, (E), 25:12402
reactions (p,n) with lithium-7 at 1.9 to 2.7 MeV, angular distributions for, (E), 23:1882 (WASH-1093)
reactions (p,n) with lithium-7 at 2 to 5.5 MeV, excitation function for, (E), 25:56752(R) (SUNI-14)
reactions (p,n) with lithium-7 at 2.0 to 2.6 MeV, neutron spectra for, (T), 22:18123(R) (RLO-1925-11)
reactions (p,n) with lithium-7 at 2.05 to 3.47 MeV, differential neutron yields and energies from, (E), 25:50619
reactions (p,n) with lithium-7 at 2.2 MeV, zero-degree neutron yield from, (E), 24:13291
reactions (p,n) with lithium-7 at 2.4 MeV, neutron time-of-flight spectra for, (E), 23:39941(R) (NP-17890)
reactions (p,n) with lithium-7 at 2.7 MeV, neutron production in, (T), 21:1382(T) (ORNL-tr-1246)
reactions (p,n) with lithium-7 at 20 to 40 MeV, neutron time-of-flight spectra for, (E), 24:3953(R) (ORNL-4433)
reactions (p,n) with lithium-7 at 23 to 52 MeV, cross section and γ spectra for, (E/T), 22:3622
reactions (p,n) with lithium-7 at 3 to 4 MeV, neutron polarization in, (E), 25:31235
reactions (p,n) with lithium-7 at 3 to 4 MeV, neutron polarization from, (E), 25:53632
reactions (p,n) with lithium-7 at 3 to 5.5 MeV, angular distribution of neutron polarization in, (E), 25:43805
reactions (p,n) with lithium-7 at 30 to 50 MeV, analysis using isospin-dependent microscopic interaction, (T), 24:5397
reactions (p,n) with lithium-7 at 4 MeV, neutron polarization from, (E), 25:53589
reactions (p,n) with lithium-7 at 8.3 to 9.1 MeV, neutron spectra from, (E), 22:37347
reactions (p,n) with lithium-7 at 94 MeV, calculations using impulse approximation and shell-model wave functions, (T), 23:10948
reactions (p,n) with lithium-7 at 94 MeV, cross-section calculation in the impulse approximation for, (T), 24:49707 (SINP-TH-68-4)
reactions (p,n) with lithium-7 at threshold to 2.36 MeV, neutron angular distributions for, (E), 22:20458
reactions (p,n) with lithium-7 near 2.2 MeV, neutron spectra and zero-degree cross section for, (E/T), 23:32898 (ANU-P-449)
reactions (p,n) with lithium-7, integrated cross section for, 22:32959 (ANL-7310, pp 1-30)
reactions (p,n) with lithium-7, neutron polarization from, (E), 21:21430
reactions (p,n) with lithium-7, neutron production by, (E/T), 22:5752
reactions (p,n) with lithium-7, polarization transfer coefficients in, (T), 24:18364
reactions (p,n) with lithium-7, production of beryllium-7 from, 21:36014
reactions (p,n) with lithium-7, production of beryllium-7 by, 23:43345
reactions (p,n) with lithium-7, threshold energy for, (E), 21:2631
reactions (p,n) with lithium-7, threshold measurement using absolute velocity gauge method, (E), 21:38234 (LA-DC-8856)
reactions (p,n) with lithium-7, use for thickness and depth measurements, 25:49031
reactions (p,n) with magnesium-25 and -26, threshold energy and Q-value for, (E), 23:40009
reactions (p,n) with magnesium-25 and magnesium-26, cross sections for, 21:19296 (UCRL-50001-66-1, pp 1-40)
reactions (p,n) with magnesium-25 and magnesium-26 at 8 to 14 MeV, (E), 21:29949
reactions (p,n) with magnesium-26 at 3.8 to 8.3 MeV, (E), 22:35262
reactions (p,n) with magnesium-26 at 5.2 to 8.0 MeV, excitation function for, (E), 25:5613
reactions (p,n) with manganese-55 at 1.3 to 3 MeV, neutron yield from, (E), 25:53608(R) (NP-18698)
reactions (p,n) with manganese-55 at 1.8 to 3.5 MeV, γ angular distributions from, (E), 22:24835(R) (BARC-305)
reactions (p,n) with manganese-55 at 2.3 to 2.8 MeV, iron-55 energy levels from, (E), 21:7751
reactions (p,n) with manganese-55 at 2.4 to 3.3 MeV, comparison of neutron cross sections with Hauser—Feshbach theory, (E/T), 25:12476
reactions (p,n) with manganese-55 at 2.4, 3.0, and 3.5 MeV, γ and n-γ coincidence spectra from, (E), 22:32553
reactions (p,n) with manganese-55 at 5.52 MeV, use of n—γ discriminator for analysis of, 21:45362 (LYCEN-6738, pp 155-75)
reactions (p,n) with medium-weight nuclei, isobaric analog resonances in, (E), 21:44632
reactions (p,n) with molybdenum-92, -94 and -96, gamma spectra from, (E), 21:46643(R) (ORNL-4134)
reactions (p,n) with molybdenum-94 at 6.4 MeV, γ spectra from, (E), 21:46723 (ORNL-4164, pp 1-23)
reactions (p,n) with natural indium and tin and on tin isotopes, cross sections and strength functions for, (E), 25:20475
reactions (p,n) with neodymium-142 at 9.35 to 10.35 MeV, total cross sections for, (E), 21:1118
reactions (p,n) with neon-20 at 16.5 MeV, threshold energy and Q-value for, (E/T), 25:36710
reactions (p,n) with nickel isotopes, copper-isotope isobaric analog states from, (E), 21:2665
reactions (p,n) with nickel-58 at 11.6 and 12.6 MeV, differential cross sections for, (E), 23:10961(R) (NP-17704)
reactions (p,n) with nickel-58 at 9.5 to 10.6 MeV, double analog resonances in, (E), 22:35282
reactions (p,n) with nickel-58, counter-ratio system for detecting thresholds of, 21:26169

reactions (p,n) with nickel-58, nickel-60, nickel-62, and nickel-64 at 3 to 8 MeV with isobaric analog excitation, cross sections for, (E), 23:42873
reactions (p,n) with nickel-60 at 7.0 to 7.8 MeV, copper-60 energy levels from, (E), 21:25481
reactions (p,n) with nickel-60, counter-ratio system for detecting thresholds of, 21:26169
reactions (p,n) with nickel-61, nickel-64, zinc-67, and zinc-68, cross sections for, (E), 25:31268
reactions (p,n) with nickel-61, nickel-64, zinc-67, and zinc-68 at 3 to 6 MeV, neutron spectra from, (E), 25:3596 (TID-25503)
reactions (p,n) with nickel-61, nickel-64, zinc-67, and zinc-68 at 2.9 to 6.3 MeV, neutron time-of-flight spectra from, (E), 25:7844
reactions (p,n) with nickel-64 at 2.5 to 3.3 MeV, excitation function for, (E), 25:3628
reactions (p,n) with nickel-64 at 2.75 to 3.50 MeV, gamma angular distributions from, (E), 24:38193
reactions (p,n) with nickel-64 at 3 MeV, γ—γ angular correlations from, (E), 25:20358
reactions (p,n) with nickel-64 at 3.1 to 3.3 MeV, total neutron yield from, (E), 25:38947
reactions (p,n) with niobium-93 at 4.5 to 5.3 MeV, molybdenum-94 analog energy levels from, (E), 21:1117
reactions (p,n) with niobium-93 at 4.6 to 5.3 MeV, molybdenum-93 energy levels from, (E), 22:27118
reactions (p,n) with niobium-93 up to 55 MeV, cross section and isomeric cross-section ratio for, (E), 23:17107(R) (OU-LNS-68-1)
reactions (p,n) with niobium-93, energy spectrum of neutrons from, (E), 21:25520
reactions (p,n) with niobium-93, tungsten-181, and yttrium-89 at 7.8 to 14.8 MeV, cross sections and spectra from, (E), 25:50768
reactions (p,n) with nitrogen-14, threshold energy and Q-value for, (E), 22:39597
reactions (p,n) with nitrogen-15 at 3.8 to 12 MeV, oxygen-16 isobaric analog states from, (E), 21:25439
reactions (p,n) with nitrogen-15 at 3.8 to 12 MeV, excitation function for, (E), 23:3951
reactions (p,n) with nitrogen-15, shell-model analysis of, (T), 23:49340
reactions (p,n) with nitrogen-15, shell-model calculations for, (T), 23:44847
reactions (p,n) with nitrogen-15, shell-model calculation of, (T), 22:29908
reactions (p,n) with nuclei at 140 to 340 MeV, energy spectra of secondary particles from, (E/T), 21:31734 (ANS-SD-3, Session 1, Paper 3)
reactions (p,n) with nuclei at 5.3 to 20 MeV, DWBA calculation with exchange interactions and finite range, (T), 24:15957
reactions (p,n) with nuclei at 5.3 to 20 MeV, effects of finite range and exchange interaction in, (T), 24:20374
reactions (p,n) with nuclei at 94 MeV, analysis of isobaric analog resonances in, (E/T), 22:16072
reactions (p,n) with nuclei at 94 MeV, isobaric analog states in, (E), 22:29952
reactions (p,n) with nuclei through isobaric analog resonances, analysis using optical model with volume form for isospin-dependent potential, (T), 23:21408
reactions (p,n) with nuclei through isobaric analog resonances, (T), 21:27631
reactions (p,n) with nuclei with analog-dipole excitation, collective theory for, 25:36835
reactions (p,n) with nuclei with excitation of isobaric analog resonances, fine structure in cross sections for, (T), 23:4085
reactions (p,n) with nuclei with isobaric analog excitation, description for, (T), 24:38379
reactions (p,n) with nuclei, asymmetry of cross sections for, (T), 21:25602
reactions (p,n) with nuclei, computer program for DWBA calculations of charge-exchange, 21:25568 (RHEL/R-131)
reactions (p,n) with nuclei, computer program for distorted-wave calculations, 21:31838 (RHEL/R-136, pp 89-130)
reactions (p,n) with nuclei, counter-ratio system for detecting high-energy neutron thresholds in, 21:26169
reactions (p,n) with nuclei, cross-section and spectral measurements using time-of-flight method, 21:38160 (ORNL-P-3206)
reactions (p,n) with nuclei, description of analog resonances near compound-nucleus overlapping levels in, (T), 25:15179
reactions (p,n) with nuclei, effect of compound nucleus levels on isobaric analog resonances in, 25:43893
reactions (p,n) with nuclei, effects of isospin term and various form factors on optical-model analysis of, (T), 25:53877
reactions (p,n) with nuclei, fast neutron time-of-flight spectroscopy for, 24:27393
reactions (p,n) with nuclei, isobaric analog states and polarization from, (E), 21:33812 (RHEL/R-144, pp 73-83)
reactions (p,n) with nuclei, polarization calculations using optical-model potential for quasielastic, (T), 21:31863
reactions (p,n) with nuclei, strong-coupling deformed isospin model for, (E/T), 21:29949
reactions (p,n) with nuclei, target chamber for measuring threshold energies of, 23:19026 (ANU-P-414)
reactions (p,n) with nuclei, with isobaric analog resonance excitation, (T), 22:7661(R) (NYO-3525-26)
reactions (p,n) with nuclei, with isobaric analog resonances, (T), 21:10099
reactions (p,n) with nuclei, with isobaric analog resonance excitation, spectroscopic factors for, (T), 22:20730
reactions (p,n) with oxygen-18 at 13 to 18 MeV, cross section for, (E), 22:30048(R) (PUC-937-307)
reactions (p,n) with oxygen-18 at 3 to 4 MeV, excitation functions for, (E), 23:3948
reactions (p,n) with oxygen-18 at threshold to 3.2 MeV, yield curve for, (E), 22:20578 (WASH-1079)
reactions (p,n) with oxygen-18 in cobalt oxide, use in diffusion studies, 21:43664
reactions (p,n) with oxygen-18 in water, from oxygen-16 (γ,p) reactions, (E), 22:5774
reactions (p,n) with oxygen-18 in water, production of fluorine-18 by, 24:40577 (SUNI-10)
reactions (p,n) with oxygen-18 to produce fluorine-18 for metal oxidation studies, 24:2883
reactions (p,n) with oxygen-18 up to 3.3 MeV, neutron yield from, (E), 24:6821
reactions (p,n) with palladium-102, -104, -106, and -108, isobaric analog resonances in, (E), 21:46784
reactions (p,n) with plutonium-240 at 10.3 to 11.3 MeV, production of spontaneously fissioning isomeric americium-240 in, (E), 21:15576
reactions (p,n) with potassium-39 at threshold to 10.5 MeV, ground-state threshold and total cross section for, (E), 25:5610
reactions (p,n) with potassium-41 at 1.2 to 2.3 MeV, threshold energy and neutron yield for, (E), 23:28242(R) (ANU-P-434)
reactions (p,n) with potassium-41 at 1.35 to 1.96 MeV, angular distributions for, (E), 24:49843
reactions (p,n) with potassium-41 up to 2 MeV, threshold energy and forward neutron yield for, (E), 24:10940 (ANU-P-463)
reactions (p,n) with potassium-41 up to 4.3 MeV, gamma spectra from, (E/T), 25:34011 (NP-18812)
reactions (p,n) with potassium-41, scandium-45, vanadium-51, and iron-57 near threshold, Q-values for, (E), 25:3608
reactions (p,n) with potassium-41, scandium-45, vanadium-51, and iron-57 near threshold, ground state Q values for, (E), 24:38147 (RLO-1925-40)
reactions (p,n) with praseodymium-141 at 6 to 15 MeV, cross sections for, (E), 21:33963(R) (NP-16498)
reactions (p,n) with rubidium-85 and rubidium-87 at 2.3 to 5.6 MeV, excitation functions for, (E), 22:18159
reactions (p,n) with rubidium-85 at 6 to 27 MeV, isomeric cross section ratio for, (E), 23:37139
reactions (p,n) with rubidium-87 at 4.6 to 6.2 MeV, isobaric analog resonances in, (E), 22:15978
reactions (p,n) with samarium-144 at 8 to 11 MeV, excitation function for, (E), 21:25520
reactions (p,n) with samarium-144 at 9.20 to 11.10 MeV, total cross sections for, (E), 21:1118
reactions (p,n) with scandium and titanium isotopes at 15.25 MeV, differential cross sections for, (E), 21:29947
reactions (p,n) with scandium-45 at 2.8 to 5.6 MeV, neutron and γ spectra and angular distributions for, (E), 25:10003
reactions (p,n) with scandium-45 at 2.8 to 9.0 MeV, γ spectra from, (E), 23:10936(R) (COO-535-591)
reactions (p,n) with scandium-45 at 2.9 to 5.3 MeV, fluctuations in integrated cross sections for, (E), 21:23445
reactions (p,n) with scandium-45 at 2.9 to 5.3 MeV, fluctuations in integrated cross section for, (E), 22:32531
reactions (p,n) with selenium-78 at 4.4 to 5.7 MeV, isobaric analog resonances in, (E), 22:15978
reactions (p,n) with selenium-78, -80, and -82, isobaric analog resonances in, (E), 22:37327
reactions (p,n) with selenium-78, selenium-80, and selenium-82, isobaric analog resonances in, (E), 23:1882 (WASH-1093)
reactions (p,n) with selenium-80 and selenium-82 at 2.5 to 6.0 MeV, excitation functions for, (E), 22:35275
reactions (p,n) with selenium-80 at 3.6 to 5.7 MeV, isobaric analog resonances in, (E), 22:15978
reactions (p,n) with selenium-82 at 4.1 to 5.8 MeV, isobaric analog resonances in, (E), 22:15978
reactions (p,n) with silver-107 and silver-109 at 5.9 to 7.3 MeV with isobaric analog excitation, excitation functions for, (E), 23:31011
reactions (p,n) with silver-107 and silver-109 with excitation of isobaric analog resonances, excitation functions for, (E), 23:13298
reactions (p,n) with silver-109, excitation functions and cadmium-109 yields for, (E), 21:40434
reactions (p,n) with single crystals of vanadium-51 at 2 MeV, use for studying channeling effects, 22:18197
reactions (p,n) with strontium-87 at 3 to 3.1 MeV, cross section and Q-value for, (E), 25:43836
reactions (p,n) with strontium-88 and yttrium-88, excitation functions for, (E), 25:36676
reactions (p,n) with strontium-88 and yttrium-89, analog-state resonances in, (E), 21:13832
reactions (p,n) with strontium-88 around 6 MeV with isobaric analog excitation, cross sections for, (E/T), 23:37176
reactions (p,n) with strontium-88 at 4.4 to 8 MeV, cross section for, (E), 25:7839
reactions (p,n) with strontium-88 at 4.8 to 8.2 MeV with isobaric analog excitation, analysis using generalized optical model, (T), 25:34039
reactions (p,n) with strontium-88 at 5 MeV, angular distributions and excitation functions for, (E), 23:30974
reactions (p,n) with strontium-88 at 5.1 MeV, d/sub 5/2/ isobaric analog resonance in, (E), 23:7254
reactions (p,n) with sulfur-34, cross sections and excitation functions for, (E), 24:52527
reactions (p,n) with sulfur-34, threshold energies and excitation functions for, (E), 25:12442
reactions (p,n) with tantalum-181, tungsten-181 yields in, (E), 21:44616
reactions (p,n) with tin-112 and zirconium-90, neutron spectra determined from (p,np') reactions, (E), 25:17882
reactions (p,n) with tin-116 at 10, 12, and 14 MeV, analysis for pre-compared particles in, (T), 23:37220
reactions (p,n) with tin-116, -117, and -119 up to 8.5 MeV, excitation function for, (E), 24:38236
reactions (p,n) with tin-117 and tin-119 at 4.4 to 4.7 MeV, cross sections and spectra near isobaric analog resonances, (E), 21:31834(R) (ORNL-4082)
reactions (p,n) with tin-117 and tin-119 at 5.5 MeV, differential cross sections for, (E), 23:4001 (ORNL-TM-2339)
reactions (p,n) with tin-117 at 4.5 MeV, angular distributions for, (E), 22:35293(R) (ORNL-4230)
reactions (p,n) with tin-117 at 6 MeV, angular distributions for, (E), 23:1881 (ORNL-TM-2364)
reactions (p,n) with tin-117, -118, -119, -120, -122, and -124 at 3 to 7 MeV, strength functions for, (E), 25:53752(R) (ORNL-4659)
reactions (p,n) with tin-117, -119, -120, -122, and -124 at 2.5 to 7.5 MeV, strength functions for, (E), 23:49398 (WASH-1127)
reactions (p,n) with tin-118 at 10, 12, and 14 MeV, analysis for precompound states in, (E/T), 24:5420
reactions (p,n) with tin-118, -120, and -122 up to 8.5 MeV, excitation function and isomeric pair production cross section, (E), 24:38236
reactions (p,n) with tin-119 at 4.3 to 5.0 MeV, antimony-119 energy levels from, (E/T), 21:38343
reactions (p,n) with titanium-46 at 10 MeV, (E), 21:5435(R) (TID-23395)
reactions (p,n) with titanium-46 at 8 to 12 MeV, n-γ coincidence spectra and excitation function for, (E), 25:17840
reactions (p,n) with titanium-49 and titanium-50, γ spectra from, (E), 23:19200(R) (COO-1468-3)
reactions (p,n) with titanium-49 at 5.6 MeV, vanadium-49 energy levels from, (E), 21:44612
reactions (p,n) with titanium-50 at 3.4 to 3.7 MeV, neutron yield from, (E), 25:53608(R) (NP-18698)
reactions (p,n) with titanium-50 at 3430 and 3510 keV, γ singles and coincidence spectra for, (E), 23:19241
reactions (p,n) with tritium at 1.12 to 3.03 MeV, relativistic tables of neutron energies from, (T), 23:37096 (AECD/EP-17)
reactions (p,n) with tritium at 1.3 to 2.3 MeV, neutron polarization in, (E), 23:44827
reactions (p,n) with tritium at 1.30 to 2.25 MeV, neutron polarization from, (E), 25:50632
reactions (p,n) with tritium at 15.4 MeV, cross section for, (E), 22:26821
reactions (p,n) with tritium at 156 MeV, differential cross sections for, (E), 25:17699
reactions (p,n) with tritium at 156 MeV, spectra and differential cross sections for, (E/T), 25:12365
reactions (p,n) with tritium at 2.3 and 2.9 MeV, neutron polarization from, (E), 25:53589
reactions (p,n) with tritium at 2.5 and 3.0 MeV, angular distributions for, (E), 23:23616
reactions (p,n) with tritium at 2.56 MeV, associated particle method for measuring neutron flux from, 25:18647
reactions (p,n) with tritium at 3 MeV, angular distributions for, (E), 22:18195
reactions (p,n) with tritium at 3 to 16 MeV, polarization transfer at 0° in, (E), 25:59695
reactions (p,n) with tritium at 3.19 MeV, associated particle method for determining 1-MeV neutron flux from, 23:19106
reactions (p,n) with tritium at 6.4 MeV, cross sections for, (E/T), 25:17971
reactions (p,n) with tritium at low energies, phase-shift analysis of differential cross sections for, (T), 25:53526
reactions (p,n) with tritium from threshold to 5 MeV, neutron production in, (T), 22:39554 (SC-RR-68-19)
reactions (p,n) with tritium up to 5 MeV, neutron production by, (T), 23:42845
reactions (p,n) with tritium, calculations of neutron production from, 22:32479 (BNL-50083, pp 179-91)
reactions (p,n) with tritium, neutron energy spectrum from, (E), 21:38225
reactions (p,n) with tritium, neutron production by, (E/T), 22:5752
reactions (p,n) with tritium, R-matrix analysis of, (T), 23:5803
reactions (p,n) with vanadium-51 at 1.5 to 5.5 MeV, integrated cross section for, (E), 22:32533
reactions (p,n) with vanadium-51 at 1.56 to 5.53 MeV, excitation function for, (E), 22:24835(R) (BARC-305)
reactions (p,n) with vanadium-51 at 1.9 to 5.5 MeV, cross sections for, (E), 21:15486 (CONF-660221-, pp 93-7)
reactions (p,n) with vanadium-51 at 2 MeV and below, excitation function for, (E), 21:42577 (LYCEN-6732)
reactions (p,n) with vanadium-51 at 2.2 to 2.8 MeV, excitation functions for, (E), 23:28243(R) (BARC-364)
reactions (p,n) with vanadium-51 at 2.2 to 4 MeV, use as monoenergetic neutron source, 24:5382
reactions (p,n) with vanadium-51 at 2.3 to 5.5 MeV, differentrial cross sections for, (E), 21:23459
reactions (p,n) with vanadium-51 at 2.31 to 2.37 MeV with isobaric analog excitation, absolute total cross section for, (E), 24:15830
reactions (p,n) with vanadium-51 at 2.8 to 5.5 MeV, cross sections for, (E), 21:17340(R) (AEET-267)
reactions (p,n) with vanadium-51 at 4.013 and 5.016 MeV, Hauser—Feshbach analysis of angular distributions from, (E/T), 25:17820
reactions (p,n) with vanadium-51 at 5.3 MeV, use of n—γ discriminator for analysis of, 21:45362 (LYCEN-6738, pp 155-75)
reactions (p,n) with vanadium-51 at low energies, analysis of fluctuations of neutron excitation function for, 22:46754
reactions (p,n) with vanadium-51 at threshold to 5.5 MeV, gamma emission in, (E), 21:17340(R) (AEET-267)
reactions (p,n) with vanadium-56 at 1.56 to 5.53 MeV, cross sections for, (E), 22:7569(R) (BARC-291)
reactions (p,n) with yttrium-89 at 3.6 to 5.1 MeV, cross sections near isobaric analog resonances, (E), 21:31834(R) (ORNL-4082)

reactions (p,n) with yttrium-89 at 3.6 to 5.8 MeV, cross sections for, (E), 22:7670
reactions (p,n) with yttrium-89 at 5.4 to 7.7 MeV, angular distributions and excitation functions for, (E), 23:19253(R) (ORO-2972-80)
reactions (p,n) with yttrium-89 at 5.4 to 7.8 MeV, excitation functions and γ-ray angular distributions for, (E), 24:13375
reactions (p,n) with yttrium-89 at 5.5 and 5.8 MeV, neutron angular distributions and time-of-flight spectra for, (E), 21:46702
reactions (p,n) with yttrium-89 at 5.50 and 5.77 MeV, neutron angular distributions and spectra from, (E), 21:31834(R) (ORNL-4082)
reactions (p,n) with yttrium-89 near isobaric analog resonance at 4.8 MeV, angular distributions and differential cross sections for, (E), 23:15389
reactions (p,n) with zinc-64, -66, -67, -68, and -70 at 18 MeV, measurement of Coulomb displacement energies by, (E), 22:30048(R) (PUC-937-307)
reactions (p,n) with zinc-68 at 3.1 to 5.2 MeV, gamma angular distributions from, (E), 22:32549
reactions (p,n) with zinc-68 at 4 to 5.1 MeV, with isobaric analog excitation, excitation functions for, (E), 24:38179
reactions (p,n) with zinc-68 at 4.0 to 5.0 MeV, Hauser—Feshbach analysis of, angular distributions, spectra, and excitation functions for, (E/T), 25:17820
reactions (p,n) with zinc-68 at 4.05 and 4.25 MeV, γ angular distributions for, (E), 22:26998
reactions (p,n) with zirconium-90 and -94, estimate of compound and precompound fractions in, (T), 25:50774
reactions (p,n) with zirconium-90 and zirconium-91 at 13 MeV, proton spectra following, (E), 21:25526
reactions (p,n) with zirconium-90 at 12 MeV, gamma spectra from, (E), 25:39046
reactions (p,n) with zirconium-90 near threshold, DWBA calculation of cross section for, (T), 23:11015
reactions (p,n) with zirconium-90, production of isomeric niobium-90 in, (E), 22:25664
reactions (p,n) with zirconium-91 at 4.7 and 5.3 MeV with isobaric analog excitation, direct measurement of neutron transmission coefficients in, (E), 24:24595
reactions (p,n) with zirconium-92 at 5.7 to 6.3 MeV, excitation function for, (E), 21:25520
reactions (p,n) with zirconium-92, isobaric analog resonances in, (T), 22:42133
reactions (p,n) with zirconium-94, γ energies and yields from, (E), 23:7281(R) (ORNL-4280)
reactions (p,n), (p,2n), (p,2pn), (p,αn), and (p,pn) with iron-56 at 4.9 to 39 MeV, excitation functions for, (E), 24:38158
reactions (p,n), (p,2n), (p,pn)(p,3np), and (p,3pn) with scandium-45 at 10 to 85 MeV, cross sections for, (E), 25:5623
reactions (p,n), (p,pn), and (p,2n) with gold, lead, platinum, silver, and tantalum at 7.5 to 14 MeV, cross sections for, (E), 21:38363
reactions (p,n2p) with deuterium at 46 MeV, quasifree n—p scattering in, (E), 24:15785
reactions (p,nγ) and (p,αγ) with oxygen-18 at 3 to 7 MeV, excitation functions for, (E), 23:49334
reactions (p,nγ) and (p,p'γ) with vanadium-51 at 2.3 to 6 MeV, gamma spectra from, (E), 25:12435
reactions (p,nγ) with aluminum-27 a 16 MeV, γ spectra from, (E), 25:38972(R) (COO-535-620)
reactions (p,nγ) with argon-40 at 3.2 to 5.2 MeV, γ polarization and angular correlations for, (E), 24:28753
reactions (p,nγ) with argon-40 at 3.7 to 4.9 MeV, angular distributions from, (E), 25:48062
reactions (p,nγ) with argon-40, potassium-40 positive-parity states from, (E), 23:42882
reactions (p,nγ) with arsenic-75, γ spectra from, (e), 25:34079(R) (NP-18683)
reactions (p,nγ) with boron-11 at 7.8 MeV, angular correlations for, (E), 22:3606 (IFA-CRD-35)
reactions (p,nγ) with calcium-48 at 1.92 to 2.02 MeV, structure of scandium-49 ground-state isobaric analog resonance in, (E), 22:11920
reactions (p,nγ) with calcium-48 near 2 MeV, γ and conversion electron spectra from, (E), 25:59756
reactions (p,nγ) with calcium-48, isobaric analog resonances in, (E), 22:9939
reactions (p,nγ) with calcium-48, scandium-48 energy level transitions from, 22:14831
reactions (p,nγ) with chromium-50, iron-54, nickel-58, and titanium-46 at 16 MeV, γ singles and n—γ coincidence spectra from, (E), 25:38972(R) (COO-535-620)
reactions (p,nγ) with chromium-53 below 2.5 MeV, total yields and angular distributions of γ rays from, (E/T), 22:13967
reactions (p,nγ) with chromium-53, gamma anisotropies and cross sections for, (E), 24:40596
reactions (p,nγ) with cobalt-59 and vanadium-51 at 2.4 to 3.7 MeV, γ-ray angular distributions and excitation functions for, (E), 25:50705
reactions (p,nγ) with dysprosium-161 at 6.7 MeV, gamma angular distributions and spectra from, (E), 25:48112
reactions (p,nγ) with iron-54 at 10 MeV, angular distributions and spectra from, (E), 25:43863
reactions (p,nγ) with iron-56 and -58, γ spectra and excitation functions for, (E), 25:38942
reactions (p,nγ) with lead-208 at 7 to 11 MeV, proton-particle neutron-hole states in bismuth-208 from, (E), 25:20434
reactions (p,nγ) with manganese-55 at 1.80 to 3.50 MeV, iron-55 energy levels from, (E), 22:1637
reactions (p,nγ) with manganese-55 at 3.6 to 5.5 MeV, γ spectra and angular distributions for, (E), 25:12483
reactions (p,nγ) with manganese-55 below 2.5 MeV, γ ray angular distributions and n-γ angular correlations for, (E), 24:45769
reactions (p,nγ) with nickel-58 and -60, γ spectra from, (E), 25:48044
reactions (p,nγ) with nickel-58, -60, zirconium-90, and -92 at 12.5 and 14 MeV, γ singles and γ—γ and n—γ coincidence spectra for, (E), 23:44864
reactions (p,nγ) with nickel-62 and nickel-64, angular distributions for, (E), 23:28242(R) (ANU-P-434)
reactions (p,nγ) with nickel-62 at 4.7 to 5.9 MeV, γ singles and coincidence spectra and angular distributions from, (E), 24:28730 (ANU-P-485)
reactions (p,nγ) with nickel-62 at 4.7 to 5.9 MeV, gamma spectra from, (E), 25:14940
reactions (p,nγ) with nickel-62 at 5 MeV and nickel-64 at 3 MeV, gamma angular distributions from, (E), 24:52472 (NP-18444)
reactions (p,nγ) with nickel-64 at 2.8 to 3.5 MeV, γ-ray angular distributions for, (E), 24:10942 (ANU-P-473)
reactions (p,nγ) with potassium-41 at 3.3 to 4.3 MeV, γ spectra from, (E), 24:28756
reactions (p,nγ) with rhenium-185 at 12 MeV, γ spectra from, (E), 25:12514(R) (COO-1672-21)
reactions (p,nγ) with scandium-45 at 2.8 to 5.6 MeV, Hauser—Feshbach analysis of gamma and neutron angular distributions and spectra from, (E), 25:45951 (UAE-NPL-1019)
reactions (p,nγ) with scandium-45 at 4.45 to 5.90 MeV, spectra and gamma angular distributions from, (E), 25:50690
reactions (p,nγ) with selenium-78 at 5.5 and 10 MeV, γ spectra from, (E), 25:48054
reactions (p,nγ) with silicon-28 at 23 MeV, γ spectra from, (E), 25:38972(R) (COO-535-620)
reactions (p,nγ) with silver-109 at 8.8 MeV, gamma spectra from, (E), 23:49421
reactions (p,nγ) with titanium-49 at 2 to 4 MeV, γ singles and coincidence spectra from, (E), 25:45954
reactions (p,nγ) with vanadium-51 at 2.3 to 6 MeV, γ singles and coincidence and n-γ coincidence spectra from, (E), 25:3593 (COO-1530-21)
reactions (p,nγ) with vanadium-51 at 3.95 to 5.50 MeV, angular distributions, excitation functions, and spectra from, (E), 25:41205 (UAE-NPL-1026)
reactions (p,nγ) with vanadium-51, excitation functions for, (E), 21:7722(R) (AEET-254)
reactions (p,nγ) with vanadium-51, n-γ angular correlations and excitation functions for, (E), 21:15511 (CONF-660221-, pp 84-8)
reactions (p,nγ) with zinc-66 at 6 to 6.8 MeV, γ singles and coincidence spectra and angular distributions for, (E), 25:56732
reactions (p,nγ) with zinc-70 at 1.4 to 4 MeV, γ spectra from, (E), 25:31290
reactions (p,nγ) with zirconium-90 at 12 MeV, γ spectra from, (E), 24:18367(R) (COO-535-603)
reactions (p,np) and (p,2p) with deuterium, modified impulse approximation and Chew—Low extrapolation for, (E/T), 25:3750
reactions (p,np) with A = 67 through 125 nuclei at 12 to 18 MeV with excitation of isobaric analog resonance, cross sections for, (E), 23:19203 (PUC-937-339)
reactions (p,np') with bismuth-209 at 39 MeV, (E), 25:23031 (ORNL-4638)
reactions (p,np) with gold-197 and tantalum-181 at 25 to 45 MeV, proton spectra and differential cross sections for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,np) with lead-208 at 22 to 23 MeV, delayed proton spectra for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,np) with lead-208 at 25 MeV, proton decay of isobaric analog ground state in, (E), 23:21352
reactions (p,np) with lead-208 at 30.5 MeV, angular distributions for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,np) with molybdenum-95, tin-117, and tin-119, proton angular distributions and spectra from, (E), 21:38377(R) (PUC-937-260)
reactions (p,np') with tin-112 at 13.9 to 17.5 MeV, excitation functions and proton and low-energy neutron spectra for (p,n) reactions determined from, (E), 25:17882
reactions (p,np) with tin-117, tin-119, zirconium-91, zirconium-92, and zirconium-94 at 12 to 16 MeV, (E), 22:27211
reactions (p,np') with zirconium-90 at 13.9 to 17.5 MeV, calculation of proton and low-energy neutron spectra for (p,n) reactions from, (E), 25:17882
reactions (p,p') and (p,p'γ) with cadmium-116 and palladium-110 at 12 MeV, (E), 24:49786 (TID-25477)
reactions (p,p) with molybdenum-95 and zirconium-91 at 3.908 and 4.330 MeV, interference effects in angular distributions from, (E), 25:39004
reactions (p,p) with nuclei at 19.7 MeV, phase-shift analysis for high-precision polarization data from, 22:3256
reactions (p,p)np and (p,2p)n with deuterium at 46 MeV, p—p correlations for, (E), 23:25807
reactions (p,p)pn with deuterium at 46 MeV, proton energy spectra from, (E/T), 23:10928 (UCLA-10-P-18-10)
reactions (p,p2n) with molybdenum-92 at 25 to 62 MeV, excitation function for, (E), 24:15844
reactions (p,p3n) with gold-197 at 30 to 85 MeV, recoil angular distributions for, (E), 23:3986
reactions (p,p3n) with iron-56, isomeric cross section ratio for, (E), 24:18384
reactions (p,pα) and (p,2p) with carbon-12 at 57 MeV, cross sections for, (E), 23:30948
reactions (p,pα) and (p,2p) with carbon-12 at 57 MeV, spectra for, (E), 22:26900
reactions (p,p'α) with beryllium-9 and carbon-12 at 55.3 MeV, angular correlation distribution for, (E), 21:42613(R) (NP-16992)
reactions (p,pα) with beryllium-9 and carbon-12 at 57 MeV, correlated energy spectra from, (E), 24:45734
reactions (p,pα) with beryllium-9 and carbon-12 at 55 MeV, angular correlation distributions and coincidence spectra for, (E), 22:26890
reactions (p,pα) with beryllium-9 at 26.0 to 46.8 MeV, coplanar angular and energy correlations and spectra from, (E/T), 25:43801 (UCLA-10-P-18-31)
reactions (p,pα) with beryllium-9 at 55 MeV, quasi-free scattering in, (E), 23:34724
reactions (p,pα) with beryllium-9 at 57 MeV, analysis using plane-wave impulse approximation, (E/T), 23:15366
reactions (p,pα) with beryllium-9 neon-20, and oxygen-16 at 47 MeV, proton spectra for, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions (p,pα) with beryllium-9, carbon-12, and lithium-6 at 655 MeV, cross sections for, 23:49330(T) (BNL-tr-282)
reactions (p,pα) with beryllium-9, carbon-12, and lithium-6 at 655 MeV, cross sections for, (E), 23:19157 (JINR-P1-4227)
reactions (p,pα) with carbon-12 at 160 MeV, clustering studies by, (E/T), 23:9031 (TID-24667, pp 455-63)
reactions (p,pα) with carbon-12 at 160 MeV, plane-wave impulse-approximation analysis of triply differential cross sections from, (E/T), 25:3581
reactions (p,pα) with carbon-12 at 90 MeV, (E/T), 21:25462
reactions (p,pα) with germanium-72, germanium-73, and germanium-74 at 450 MeV, cross sections for, (E), 23:21330(R) (COO-1167-6)
reactions (p,pα) with lithium-6 and -7 at 57 MeV, analysis for cluster knockout in, (E), 24:49710
reactions (p,pα) with lithium-6 and -7 near 60 MeV, analysis for reaction mechanism in, (E), 25:14902
reactions (p,pα) with lithium-6 at 61.5 MeV, PWBA analysis of, (T), 23:44838
reactions (p,pα) with lithium-6 at 61.5 MeV, testing quasifree cluster-knockout model by, (E/T), 23:15369
reactions (p,pα) with lithium-7 at 58.1 MeV, angular correlations for, (E), 24:43170
reactions (p,p'α) with neon-20 and oxygen-16 at 13 MeV, cross sections for, (E), 21:11979
reactions (p,pα) with neon-20 and oxygen-16 at 46.8 MeV, coplanar angular and energy correlations and spectra from, (E/T), 25:43801 (UCLA-10-P-18-31)
reactions (p,pα) with neon-20 and oxygen-16 at 46.8 MeV, analysis for quasielastic mechanism in, (E/T), 25:45930
reactions (p,pα) with neon-20 and oxygen-16 at 46.8 MeV and with beryllium-9 at 26, 35, and 46.8 MeV, coplanar energy and angular distributions for, (E), 25:22975
reactions (p,pα) with neon-20 at 46 MeV, cross section for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,pα) with tungsten-186 at 33 and 50 MeV, production of isomeric hafnium-182 from, (E), 25:48081
reactions (p,pαn) with lanthanum-139 and yttrium-89, isomeric cross section ratios for, (E), 24:1814
reactions (p,pd) and (p,2p) with helium-3 and tritium at 35 MeV, kinematic analysis of, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,pd) and (p,2p) with helium-3 at 35 MeV, plane-wave impulse-approximation analysis of spectra from, (E), 25:53523
reactions (p,pd) and (p,d) with helium-3 at 34 and 46 MeV, p—d spectra for, (E), 23:25807
reactions (p,pd) and (p,p He-3) with lithium-6 at 156 MeV, angular correlations in, (E), 25:43800 (NP-18880)
reactions (p,pd) and (p,pα) with lithium-6, (T), 24:40560
reactions (p,pd) and (p,pt) with fluorine-19, summed energy spectra from, (E), 25:33954(R) (USC-136-X-1)
reactions (p,pd) and (p,pt) with fluorine-19, summed energy spectra from, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions (p,pd) with carbon-12 and lithium-6 at 155 MeV, angular correlation measurements on, (E), 23:8936 (TID-24667, pp 464-73)
reactions (p,pd) with carbon-12 at 156 MeV, angular correlations and spectra from, (E), 25:43800 (NP-18880)
reactions (p,pd) with helium-3 at 35 MeV, effect of neutron pickup on quasi-free scattering, (E), 25:59702
reactions (p,pd) with helium-3 at 45 MeV, charged-particle angular correlations and spectra for, (E/T), 22:13927(R) (USC-136-132)
reactions (p,pd) with helium-3 at 46 MeV, p—p final-state interaction in, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,pd) with helium-3 at 46.5 MeV, p—p final-state interaction in, (E), 23:7219
reactions (p,pd) with helium-4 and oxygen-16 at 1 GeV, pole diagram analysis of deuteron momentum spectra for, (T), 23:10932
reactions (p,pd) with helium-4 at high energies, calculation of cross sections including effects of nuclear pair correlations, (T), 25:46122
reactions (p,pd) with light nuclei at 600 MeV, Fermi distribution of nucleons from, (E), 25:38876
reactions (p,p'd) with lithium-6 at 19 MeV, Treiman—Yang test for quasi-elastic scattering in, (E/T), 24:43167
reactions (p,pd) with lithium-6 at 9 MeV, coincidence spectra for, (E), 22:20477
reactions (p,pd) with lithium-6, analysis using cluster model with distorted wave impulse approximation, (T), 24:26592
reactions (p,pd) with lithium-6, calculations using impulse approximation and cluster-model wave function, (T), 23:49335
reactions (p,pd) with lithium-6, cluster model analysis using antisymmetric wavefunctions, (T), 23:19167
reactions (p,pd) with lithium-6, distortion and antisymmetrization effects in, (T), 25:50659
reactions (p,pd) with lithium-6, exchange effects from antisymmetric lithium-6 wave functions, (T), 21:31838 (RHEL/R-136, pp 89-130)
reactions (p,pd) with lithium-7 at 30.3 MeV, angular correlations for, (E), 23:19181

reactions (p,pd) with nitrogen-14 at 46 MeV, differential cross sections and energy spectra from, (E), 25:25651
reactions (p,pd) with nuclei at 1 GeV, short-range correlations in, (T), 22:20280
reactions (p,pd) with nuclei at high energies, effects of nuclear pair correlations on differential cross sections for, (T), 25:46122
reactions (p,pd)α with lithium-6 at 9 and 10 MeV, two-particle coincidence spectra for, (E), 22:7652
reactions (p,pγ) with calcium-48 scandium-48 analog states from, (E), 21:23314 (BNL-994, pp 70-102)
reactions (p,pγ) with nuclei, equipment and methods for angular correlation measurements in, (E), 23:47886
reactions (p,p'γ), (p,p'n), and (p,np') with nickel-61 and tin-119 at 17 MeV, angular and energy correlations for, (E), 22:42048
reactions (p,pHe-3) and (p,pt) with helium-4 at 46 MeV, particle spectra from, (E), 24:52393
reactions (p,pHe-3) and p,tp) with helium-4 at 47 MeV, (E), 24:52398
reactions (p,pHe-3) with lithium-6 at 156 MeV with quasi-elastic scattering, (E), 22:26850
reactions (p,pHe-3) with lithium-6 at 156 MeV, angular correlation measurements on, (E), 23:8936 (TID-24667, pp 464-73)
reactions (p,pHe-3) with lithium-6 at 156 MeV, angular correlations for, (E), 24:52440
reactions (p,pn) and (p,p2n) with nickel-58 at 400 MeV, angular distribution of recoils from, (E), 25:12500
reactions (p,pn) and (p,p3n) with gold-197 at 400 MeV, angular distribution of recoils from, (E), 25:12500
reactions (p,pn) with beryllium-9 at 11 to 12 MeV, n-p coincidence spectra from, (E), 24:20316
reactions (p,pn) with beryllium-9 at 11.5 MeV, (E), 23:15346(R) (ORO-1316-70)
reactions (p,pn) with beryllium-9, carbon, lithium, magnesium, and tin, angular distributions for, (E), 24:10920
reactions (p,pn) with beryllium-9, singlet deuteron production from, (E), 21:29870
reactions (p,pn) with carbon-12 at 18 to 351 MeV, cross section evaluations, 21:7697
reactions (p,pn) with carbon-12 at 22 to 150 MeV, average projected recoil ranges and validity of cascade calculation for, (E/T), 23:34728
reactions (p,pn) with carbon-12 at 385 MeV, cross section for, (E), 22:20463
reactions (p,pn) with carbon-12 at 40 to 150 MeV, recoil ranges from, (E), 22:37338(R) (COO-1505-26)
reactions (p,pn) with carbon-12 at 450 MeV, carbon-11 recoil energy distribution from, (E), 22:29917
reactions (p,pn) with carbon-12 at 660 MeV, angular distribution of recoil nuclei in, (E), 22:39255
reactions (p,pn) with carbon-12 at 660 MeV, angular distribution of recoil nuclei in, (E), 22:46715(T) (ANL-Trans-657)
reactions (p,pn) with carbon-12 at 660 MeV, angular and energy distribution of carbon-11 recoils from, (E), 25:53621
reactions (p,pn) with carbon-12 at threshold to 85 MeV, recoil studies of, (E), 22:18151
reactions (p,pn) with carbon-12 for beam monitoring at Brookhaven AGS, 23:28086
reactions (p,pn) with carbon-13 at 7.9 to 12.5 MeV, coincidence spectra from, (E), 25:50655
reactions (p,pn) with carbon-13, p-n correlations in, (E), 25:14907
reactions (p,pn) with chromium-52 and nickel-58 at 50 MeV, gamma energy and half-life measurements on, 21:38265
reactions (p,pn) with copper-65 and gold-197 at 20 to 85 MeV, average recoil ranges in, (E), 22:53161
reactions (p,pn) with copper-65 and gold-197 at 30 to 85 MeV, recoil angular distributions for, (E), 23:3986
reactions (p,pn) with copper-65 at 0.4, 1.0, and 2.8 GeV, recoil angular distributions for, (E), 22:53145
reactions (p,pn) with deuterium at 14 to 23 MeV, energy dependence of quasifree scattering in, (E), 25:3547 (RLO-1388-126)
reactions (p,pn) with deuterium at 14 to 23 MeV, modified-simple-impulse-approximation calculation of proton spectra from, (E/T), 25:36667
reactions (p,pn) with deuterium at 15 to 50 MeV, p-n correlation spectra and cross sections for, (E), 24:22071
reactions (p,pn) with deuterium at 35 and 46 MeV, differential cross sections and p—n correlation spectra for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,pn) with deuterium at 4 to 12 MeV, proton polarization in, (E), 21:15480
reactions (p,pn) with deuterium at 6.5 to 11.5 MeV, spectra for, (E), 22:20578 (WASH-1079)
reactions (p,pn) with deuterium at 8 to 13 MeV, proton—proton scattering length in, (E), 25:17691
reactions (p,pn) with deuterium at 9 MeV, cross section and spectra for, (E), 21:40432 (WASH-1074)
reactions (p,pn) with deuterium at 9 MeV, final-state interactions in, (E), 22:11903
reactions (p,pn) with deuterium at 9 MeV, final-state interactions in, (E), 22:20446
reactions (p,pn) with deuterium at 9.0 MeV, impulse-approximation analysis of proton spectra and peak cross sections for, (E/T), 25:36670
reactions (p,pn) with fluorine-19 at 660 MeV, fluorine-18 recoil angular distributions from, (E), 22:35244
reactions (p,pn) with fluorine-19 at 660 MeV, fluorine-18 recoil angular distributions from, (E), 22:53094(T) (ANL-Trans-656)
reactions (p,pn) with gold-197 at 400 MeV, angular distribution of the isomeric ratio of, (E), 25:34118
reactions (p,pn) with iron-54, isomeric cross section ratio for, (E), 24:18384
reactions (p,pn) with nuclei at 17 MeV, mechanism of, (E), 25:10005
reactions (p,pn) with nuclei, DWBA analysis for singlet deuteron state in, (T), 23:15381
reactions (p,pn) with nuclei, method for analysis of, 21:27658
reactions (p,pn), (p,2n), and (p,2p) with cadmium-106, -108, -110, -112, -113, and -114 at 400 MeV, analysis for nuclear structure effects in, (E), 25:12570
reactions (p,pn), (p,2n), and (p,2p) with tellurium-122, -123, -124, -125, -126, -128, and -130 at 300 MeV, analysis for nuclear structure effects in, (E), 25:12581
reactions (p,pn), (p,p2n), (p,2pn), and (p,2p2n) with nickel-58 and zinc-64 at 370 MeV, cross sections for, (E/T), 22:18201
reactions (p,pn), (p,p2n), (p,2pn), and (p,2p2n) with chromium-50, nickel-58, and zinc-64 at 370 MeV, cross sections and mechanisms of, (E/T), 22:20552
reactions (p,pπ^+) with aluminum-27 at 0.6 to 28 GeV, excitation function and integral recoil properties of, (E) , 22:26951
reactions (p,pπ^+) with copper-65 at 1.0 and 2.8 GeV, energy and angular distributions of recoil nuclei from, (E), 24:52488
reactions (p,pπ^+) with copper-65, cross sections for, (T), 22:9791
reactions (p,pπ^{+-}) with rhodium-103 at 18 GeV, (E), 21:5503(R) (NYO-2897-17)
reactions (p,p$\pi^+\pi^-$) with nuclei, angular criteria for, (T), 25:53869
reactions (p,p$\pi^+\pi^-$) with nuclei, proposed experimental study of diffraction dissociation, 25:47737
reactions (p,pt) and (p,pHe-3) with helium-4 at 46 MeV, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,pt) with lithium-7 at 156 MeV, angular correlations and spectra from, (E), 25:43800 (NP-18880)
reactions (p,pt) with lithium-7 at 156 MeV, angular correlation for, (E), 25:17759
reactions (p,pt) with lithium-7 at 156 MeV, angular correlations for, (E), 24:52440
reactions (p,pxn) with rhenium, chemical forms of radiorhenium from, 24:2258
reactions (p,π) with nuclei, quantum mechanical treatment of cross sections for, (T), 25:39090
reactions (p,π^+) with beryllium-9 and carbon-12 at 185 MeV, differential cross sections for, (E), 25:48022
reactions (p,π^+) with carbon-11 at 215 MeV, cross sections for, (E/T), 25:47739
reactions (p,π^+) with carbon-12 at 600 MeV, cross sections for, (E/T), 25:47739
reactions (p,π^+) with carbon-12 at 600 MeV, harmonic oscillator wave functions for, (T), 25:41028
reactions (p,π^+) with carbon-12 at 600 MeV, model for π^+ emission in, (T), 25:17522
reactions (p,π^+) with carbon-12, carbon-13, and nitrogen-14 at 600 MeV, differential cross sections for, (E), 24:52451
reactions (p,π^+) with carbon-12, cross sections for, (T), 25:53239
reactions (p,π^+) with deuterium at 340 to 600 MeV, cross sections for, 25:53239
reactions (p,π^+) with deuterium at 340 to 670 MeV, cross sections and form factors for, 25:47739
reactions (p,π^+) with helium-3 at 200 to 800 MeV, cross sections for (T), 25:53239
reactions (p,t) and (p,He-3) at 43.7 and 54.1 MeV, angular distributions for, (E), 25:20299
reactions (p,t) and (p,He-3) with A = 20 through 42 nuclei at 45 MeV, angular distributions for, (E), 23:25853 (UCRL-18716)
reactions (p,t) and (p,He-3) with argon-38, argon-40, calcium-42, silicon-30, and sulfur-34 at 45 MeV, energy spectra and angular distributions for, (E), 24:24542
reactions (p,t) and (p,He-3) with calcium-48 at 40 MeV, angular distributions for, (E), 24:22104
reactions (p,t) and (p,He-3) with carbon-13 and nitrogen-15, angular distributions for, (E), 22:53098
reactions (p,t) and (p,He-3) with carbon-13 at 43.7 and 50.5 MeV, angular distributions for, (E), 22:39639 (UCRL-17989, pp 43-99)
reactions (p,t) and (p,He-3) with carbon-13 at 50 MeV, cross-section analysis using Born approximation, (E/T), 22:13947
reactions (p,t) and (p,He-3) with carbon-14 at 40 MeV, angular distributions and excitation functions for, (E), 23:1929(R) (COO-1265-67)
reactions (p,t) and (p,He-3) with chlorine-35 at 40 MeV, angular distributions for, (E), 25:17788
reactions (p,t) and (p,He-3) with fluorine-19 at 46 MeV, angular distributions for, (E), 23:10928 (UCLA-10-P-18-10)
reactions (p,t) and (p,He-3) with helium-4 at 46 MeV, energy spectra for, (E/T), 23:10928 (UCLA-10-P-18-10)
reactions (p,t) and (p,He-3) with helium-4 at 50 MeV, analysis for final-state interactions in, (E/T), 23:32896
reactions (p,t) and (p,He-3) with helium-4 at 50 MeV, particle spectra for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,t) and (p,He-3) with magnesium-25, -26, neon-20, -21, and -22 at 45 MeV, energy spectra for, 23:52133
reactions (p,t) and (p,He-3) with magnesium-26 at 50 MeV, angular distributions for, (E), 23:13253
reactions (p,t) and (p,He-3) with neon-20 and neon-22 at 40 MeV, angular distributions for, (E), 23:1929(R) (COO-1265-67)
reactions (p,t) and (p,He-3) with nitrogen-15 at 43.7 MeV, carbon-13 and nitrogen-13 energy levels from, (E), 22:20494
reactions (p,t) and (p,He-3) with nitrogen-15 at 44 MeV, cross-section analysis using distorted-wave Born approximation, (E/T), 22:13947
reactions (p,t) and (p,He-3) with nuclei, cross-section formula for T = 1 transfer, 24:24628
reactions (p,t) and (p,He-3) with nuclei, use for determination of parentage, (T), 23:40148
reactions (p,t) and (p,He-3) with oxygen-17 at 39.8 MeV, DWBA analysis of differential cross sections for, (E/T) , 25:48034
reactions (p,t) and (p,He-3) with s-d shell nuclei at 45 MeV, cross sections for, (E), 24:18401
reactions (p,t) and (p,He-3) with silicon-30 at 46 MeV, triton and helium-3 energy spectra for, (E), 22:50574
reactions (p,t) wit tin-117 and -119 at 20 MeV, triton spectra from, (E), 24:43437
reactions (p,t) with 1p-shell nuclei, analysis using zero-range DWBA, 25:28204
reactions (p,t) with A = 30 to 142 nuclei at 52 MeV, angular distributions for, (E), 24:20272(R) (NP-18091)
reactions (p,t) with A = 4 to 224 nuclei, tables of structure amplitudes for, (T), 22:53078 (UCRL-18268)
reactions (p,t) with aluminum-27, magnesium-26, sodium-23, fluorine-19, oxygen-18, and boron-11 at 40 MeV, 21:21476
reactions (p,t) with argon-36, calcium-40, magnesium-24, neon-20, silicon-28, and sulfur-32, angular distributions for, (E), 25:14950
reactions (p,t) with argon-40 at 17.5 MeV, argon-38 energy levels from, (E), 21:35453
reactions (p,t) with boron-10 at 49.5 MeV, differential cross sections for, (E), 24:43162
reactions (p,t) with calcium-40 and magnesium-24 at 28 MeV, calcium-38 and magnesium-22 energy levels from, (E), 21:11991(R) (UCOL-535-561)
reactions (p,t) with calcium-40 at 40 MeV, angular distributions for, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,t) with calcium-40, calcium-38 energy levels from, (E), 21:4253
reactions (p,t) with calcium-40, calcium-42, calcium-48, nickel-58, nickel-60, nickel-62, and nickel-64 at 40 MeV, analysis using distorted-wave Born approximation with configuration mixing, (T), 22:44666
reactions (p,t) with calcium-42 and calcium-44 at 26.5 MeV, DWBA analysis of angular distributions for, (E), 23:19227
reactions (p,t) with calcium-42 and oxygen-18, analysis using finite well single-particle states for overlap in, (T) , 23:15512
reactions (p,t) with calcium-42, -44, and -48 at 20 MeV, angular distributions for, (E), 25:5677
reactions (p,t) with carbon-12 and magnesium-26 at 20 to 54 MeV, differential cross sections for, (T), 21:44595
reactions (p,t) with carbon-12 and silicon-28 at 49.5 MeV, effects of beam polarization on differential cross sections for, (E), 25:17715
reactions (p,t) with carbon-12 at 43 and 52 MeV, triton angular distributions and spectra from, (E), 21:25457
reactions (p,t) with carbon-12 at 50 MeV, differential cross sections for, (E), 21:31710 (RHEL/R-136, pp 52-88)
reactions (p,t) with carbon-14 at 14.5 MeV, angular distributions from, (E), 25:36673
reactions (p,t) with cerium-140 and -142 at 52.1 MeV, triton spectra and angular distributions from, (E), 25:15006
reactions (p,t) with chlorine-37, angular distributions from, (E), 24:43287
reactions (p,t) with chromium-50 and titanium-46 at 40 MeV, triton momentum spectra and angular distributions for, (E), 24:5389(R) (COO-1265-83)
reactions (p,t) with chromium-52 at 17.5 MeV, chromium-50 energy levels from, (E), 21:35453
reactions (p,t) with chromium-52 at 27 MeV, DWBA analysis of differential cross sections for, (E), 25:43849
reactions (p,t) with chromium-53 at 17.5 MeV, chromium-51 energy levels from, (E), 21:35453
reactions (p,t) with chromium-54 at 17.5 MeV, chromium-52 energy levels from, (E), 21:35453
reactions (p,t) with collective spherical nuclei at 30 MeV, two-step processes in, (T), 24:52520
reactions (p,t) with deformed nuclei, cross-section calculations using strong-coupling rotational model, (T), 23:52188
reactions (p,t) with deformed nuclei, effects of higher multipole deformation of the pairing density on, (T), 25:43977
reactions (p,t) with deformed nuclei, strong second-order processes in, (T), 25:18015
reactions (p,t) with dysprosium-164, gadolinium-158, hafnium-176, tungsten-184, and ytterbium-172 at 51.7 MeV, spectra and DWBA analysis of differential cross sections from, (E/T), 25:28411
reactions (p,t) with even calcium and nickel isotopes, cross sections for, (T), 22:27022
reactions (p,t) with even tin isotopes at 20 MeV, cross sections for, (E), 25:5799
reactions (p,t) with even tin isotopes, calculations using four-quasiparticle second Tamm—Dancoff approximation, (T), 22:27092
reactions (p,t) with even-A molybdenum isotopes at 52 MeV, 0° energy levels from, 25:48104
reactions (p,t) with fluorine-19 at 16 and 18 MeV, angular distributions for, (E), 23:46952
reactions (p,t) with fluorine-19, magnesium-26, and phosphorus-31 at 17.5 MeV, angular distributions for, (E), 24:20368
reactions (p,t) with fluorine-19, magnesium-26, and phosphorus-31, angular distributions for, (E), 23:32901 (PUC-937-350)
reactions (p,t) with germanium-76, nickel-58, and zinc-70 at 40 MeV, triton spectra from, (E), 22:1598(R) (COO-1265-49)
reactions (p,t) with iron-54 at 40 MeV, angular distributions for, (E), 25:25693
reactions (p,t) with iron-54, iron-56, nickel-58, and nickel-60 at 51.9 MeV, 25:20321
reactions (p,t) with iron-56 at 18 MeV, angular distributions for, (E), 22:30048(R) (PUC-937-307)
reactions (p,t) with iron-57, scandium-45, and zinc-67 at 40 MeV, differential cross sections for, (E), 21:5435(R) (TID-23395)
reactions (p,t) with lead isotopes at 40 MeV, differential cross sections for, (E), 21:5435(R) (TID-23395)

reactions (p,t) with lead-204 at 22 MeV, triton spectra from, (E), 24:43436
reactions (p,t) with lead-204, lead-206, lead-207, and lead-208 at 40 MeV, angular distributions and spectra for, (E), 21:13874
reactions (p,t) with lead-206 and -208 and tin-116, -117, -118, -119, -120, -122, and -124 at 20 to 22 MeV, DWBA analysis of, (E/T), 25:48098
reactions (p,t) with lead-207, shell-model calculations of angular distributions and relative cross sections for, (T), 22:32601
reactions (p,t) with lead-208 at 20 and 22 MeV, angular distributions for, (E), 22:27207
reactions (p,t) with lead-208 at 22 MeV, cross sections for, (E), 21:44715
reactions (p,t) with lead-208 at 40 MeV, calculation of differential cross sections for, 21:30015
reactions (p,t) with lead-208 at 40 MeV, differential cross sections for, (E), 22:30002
reactions (p,t) with lead-208 at 40.7 MeV, energy spectra and DWBA analysis of differential cross sections from, (E/T), 25:12574
reactions (p,t) with lead-210 at 20 MeV, calculations using two-step transfer processes, (T), 25:7888 (UCRL-19530, pp 107-62)
reactions (p,t) with lithium-7, triton spectra from, (E), 22:13930
reactions (p,t) with magnesium-24 at 50 MeV, triton angular distributions from, (E), 22:9808
reactions (p,t) with magnesium-26 at 20 MeV, angular distributions for, (E), 24:43289
reactions (p,t) with medium-weight even-even nuclei, cross sections for, (E), 21:2772
reactions (p,t) with molybdenum-92 at 40 MeV, triton spectra from, (E), 25:25787
reactions (p,t) with neodymium isotopes at 32 MeV, (E), 24:52566(R) (ORNL-4534)
reactions (p,t) with neodymium-142 at 51.7 MeV, coupled-channel Born-approximation calculation of differential cross sections for, (T), 25:36794
reactions (p,t) with neodymium-142, -144, and -146 at 51.7 MeV, triton spectra and angular distributions for, (E), 24:43441
reactions (p,t) with neodymium-142, -144, and -146 at 31 MeV, triton spectra from, (E), 24:15882
reactions (p,t) with neodymium-148, neodymium-150, samarium-150, and samarium-152 at 40 MeV, (E), 21:2739
reactions (p,t) with neon-20 at 42.5 MeV, angular distributions for, (E), 24:43165
reactions (p,t) with neon-20 at 42.6 MeV, angular distributions for, (E), 25:5587
reactions (p,t) with neon-20 at 50 MeV, differential cross sections for, (E), 25:10006
reactions (p,t) with neon-22 at 26.9 to 42.4 MeV, angular distributions for, (E), 25:31296
reactions (p,t) with nickel isotopes at 40 MeV, two-particle spectroscopic factors for, (E/T), 23:1929(R) (COO-1265-67)
reactions (p,t) with nickel-58 and zinc-64 at 27 MeV, angular distributions for, (E), 25:38972(R) (COO-535-620)
reactions (p,t) with nickel-58 at 50 MeV, angular distributions for, (E), 22:48483
reactions (p,t) with nickel-58 at 51.9 MeV, differential cross sections for, (E), 25:12431 (INSJ-124)
reactions (p,t) with nickel-60 at 50 MeV, angular distributions for, (E), 24:43288
reactions (p,t) with nickel-60, nickel-62, and nickel-64 at 50 MeV, cross sections for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,t) with nickel-62 at 30 MeV, analysis of inelastic effects in, (T), 24:43565
reactions (p,t) with nickel-62, inelastic processes in, (T), 23:52172 (UCRL-18667, pp 133-67)
reactions (p,t) with nuclei, computer program using distorted-wave Born approximation, 21:7478(R) (COO-1371-36)
reactions (p,t) with oxygen-18, cross-section calculations using nuclear coexistence model for initial and final states, 21:42696
reactions (p,t) with palladium-108 and silver-109 at 19 MeV, angular distributions for, (E), 25:9966(R) (COO-1265-94)
reactions (p,t) with palladium-108 and silver-109 at 19 MeV, angular distributions for, (E), 24:5389(R) (COO-1265-83)
reactions (p,t) with plutonium-242, plutonium-244, thorium-230, uranium-234, uranium-236, and uranium-238 at 17 MeV, analysis for collective excitations in, (E), 24:52637
reactions (p,t) with potassium-39 at 45 MeV, potassium-37 mass and energy levels from, (E), 22:20555
reactions (p,t) with samarium isotopes at 55 MeV, triton energy spectrum and angular distributions from, (E), 21:42613(R) (NP-16992)
reactions (p,t) with samarium-144, angular distributions and Q-value for, (E), 25:9978(R) (ORO-3398-26)
reactions (p,t) with samarium-150, -152, and -154 at 55 MeV, angular distributions and spectra for, (E), 22:27147
reactions (p,t) with samarium-150, samarium-152, and samarium-154 at 55 MeV, angular distributions for, (E) , 22:48518 (JAERI-1158, pp 47-55)
reactions (p,t) with samarium-152 and -154 at 20.6 MeV, angular distributions for, (E), 25:12612
reactions (p,t) with samarium-152 at 19 MeV, angular distributions for, (E), 24:5389(R) (COO-1265-83)
reactions (p,t) with samarium-152 at 19 MeV, triton angular distributions from, (E), 24:40622
reactions (p,t) with samarium-152 at 19 MeV, triton spectra for, (E), 23:1929(R) (COO-1265-67)
reactions (p,t) with samarium-154 at 20.6 MeV, angular distributions for, (E), 24:15880
reactions (p,t) with sodium-23 at 42 MeV, sodium-21 mass and energy levels from, (E), 22:20555
reactions (p,t) with strontium-86, strontium-88, and yttrium-89 at 50 MeV, cross sections for, (E), 23:30923(R) (RHEL/R-170)
reactions (p,t) with tin-115, -117, and -119 at 20 MeV, analysis of triton spectra and angular distributions for blocking effect, (E), 25:34140
reactions (p,t) with tin-118 at 55 MeV, angular distributions for, (E), 22:27144
reactions (p,t) with tin-118 at 55 MeV, triton energy spectra and angular distributions from, (E), 22:30009
reactions (p,t) with tin-118, -120, -122, and -124 at 20 MeV, angular distributions for, (E), 22:27202
reactions (p,t) with tin-118, spectroscopic factors from Tamm—Dancoff calculations, (T), 22:27263
reactions (p,t) with titanium-48 at 27 MeV, DWBA analysis of, (E/T), 25:38972(R) (COO-535-620)
reactions (p,t) with titanium-48 at 27 MeV, finite-range correction in DWBA analysis of, (T), 25:23081
reactions (p,t) with titanium-48 at 27 MeV, inadequacies of DWBA analysis of angular distributions from, (E/T), 24:52543
reactions (p,t) with titanium-50 at 19, 23, an 27 MeV, DWBA analysis of, (E/T), 25:38972(R) (COO-535-620)
reactions (p,t) with ytterbium-170, -172, -174, and -176 at 19 MeV, angular distributions for, (E), 25:1745
reactions (p,t) with ytterbium-176 at 19 MeV, analysis using unified model and coupled-channel Born approximation, (T), 25:48090
reactions (p,t) with ytterbium-176, analysis using coupled-channel Born approximation, (T), 25:15191
reactions (p,t) with zinc-64 at 20.5 MeV, angular distribution for, (E), 23:52109(R) (RLO-1388-96)
reactions (p,t) with zinc-68 at 55 MeV, angular distributions and spectra for, (E), 22:26986
reactions (p,t) with zirconium isotopes at 38 MeV, neutron binding energies, spin—parity and transition enhancement factors for energy levels from angular distributions from, (E), 25:46072
reactions (p,t) with zirconium-90 at 31 MeV, angular distributions for, (E), 23:25867
reactions (p,t) with zirconium-90 at 55 MeV, angular distributions for, (E), 23:15406
reactions (p,t) with zirconium-90 at 55 MeV, zirconium-88 energy levels from, (E), 21:42613(R) (NP-16992)
reactions (p,t) with zirconium-90, zirconium-92, zirconium-94, and zirconium-96 at 38 MeV, triton spectra for, (E), 23:37258
reactions (p,t) with zirconium-91 at 55 MeV, zirconium-89 energy levels from, (E), 21:42613(R) (NP-16992)
reactions (p,t) with zirconium-92 and zirconium-96 at 15 MeV, angular distributions for, (E), 23:19253(R) (ORO-2972-80)
reactions (p,t), with ytterbium-174 and -176 at 19 MeV, angular distributions for, (E), 24:5389(R) (COO-1265-83)
reactions (p,x) with carbon-12 at 150 and 600 MeV, production cross sections for lithium and beryllium isotopes in, (E), 25:28182
reactions (p,x) with gold-197 at 11.5 GeV, cross sections and relative abundances for formation of alpha-emitting rare-earth nuclides by, (E), 22:30020
reactions (p,x) with sodium, production of carbon-11 by, 24:235
reactions (p,x) with various compounds, chemical state of carbon-11 recoils produced by, 22:10264(R) (ORO-3602-1)
reactions (p,xγ) with lithium-7, beryllium-9, boron-11, carbon, oxygen, magnesium, aluminum-22, and iron at 16 to 160 MeV, gamma spectra and production cross sections for, (E), 22:32494
reactions (p,xn) and (p,pxn) with bismuth-209 at 20 to 156 MeV, excitation functions for, (E), 21:29978
reactions (p,xn) with A = 59 through 202 nuclei at 100 to 400 MeV, cross sections for, (E), 23:30977
reactions (p,xn) with aluminum-27, beryllium-9, indium-115, iron-56, lead-208, nitrogen-14, and tantalum-181 at 14 to 18 MeV, statistical analysis of neutron spectra for, (E/T), 23:25818
reactions (p,xn) with bismuth at 60 to 150 MeV, production of light-weight polonium isotopes by, (E), 22:30032
reactions (p,xn) with bismuth-209, tantalum-181, and thulium-169 at 20 to 45 MeV, precompound and statistical contributions to excitation functions for, (E/T), 25:36797
reactions (p,xn) with cadmium isotopes 111 through 116 at 70 to 400 MeV, cross sections for, (E), 23:31014
reactions (p,xn) with erbium isotopes, iridium isotopes, and tantalum isotopes, calculations using Monte Carlo method, (T), 21:2710
reactions (p,xn) with germanium-72 at 100 to 400 MeV, excitation functions for, (E), 23:30977
reactions (p,xn) with iron-56, iron-57, and iron-58 at 370 MeV, cross sections for, (E), 22:48491
reactions (p,xn) with nuclei with A = 56 to 126, (E), 21:5503(R) (NYO-2897-17)
reactions (p,xn) with nuclei, estimation of excitation functions for, (T), 23:4052 (KFK-767)
reactions (p,xn) with tantalum-181 at 18 MeV, analysis using time-dependent model, (T), 25:46106
reactions (p,xn) with tantalum-181 at 18 MeV, Fermi-gas-model calculations of high-energy-neutron cross sections from, (T), 25:15140 (CU-1019-79)
reactions (p,xn) with uranium-233 at 32 and 42 MeV, production of neptunium-230 and -229 in, (E), 22:32661
reactions (p,xn) with uranium-238 at 200 MeV, Fermi-gas-model calculations of neutron spectra and proton and neutron occupation numbers from, (T), 25:15140 (CU-1019-79)
reactions (p,xn) with uranium-238 at 750 MeV, neutron spectrum unfolding capability for, (E), 25:55038 (LA-DC-12314)
reactions (p,xn) with Z = 20 to 100 nuclei, excitation functions and thick-target yields for, (T), 25:12529(T) (ORNL-tr-3020)
reactions (p,xn), (p,p3n), and (p,2pxn) with strontium-88 at 7 to 85 MeV, excitation functions for, (E), 21:29928
reactions (p,xn), (p,pxn), and (p,2pxn) with separated cadmium isotopes at 400 MeV, cross sections for, (E/T), 21:40397(R) (NYO-2897-22)
reactions (p,xpn) with silicon-28 at 150 MeV, production of sodium isotopes with A = 20 to 25 by, (E), 22:30033
reactions (p,xpyn) with aluminum-27, carbon-12, copper, and uranium at 50 to 400 MeV, cross sections for, (E/T), 22:41953
reactions (p,xpyn) with aluminum-27, carbon-12, copper-65, and uranium-238 at 50 to 400 MeV, cross-section calculations using cascade-evaporation model, (T), 22:26832 (ORNL-4105)
reactions and scattering on nuclei, optical-model potential for, (T), 21:12089
reactions and scattering on yttrium-89 and zirconium-90, conversion electron groups in charged-particle spectra from, (E), 24:13313 (TID-25300)
reactions at 5 to 24 GeV/c in emulsions, restricted energy loss from ionization, (E), 24:12926
reactions at 8 to 40 MeV with nickel-58, 21:17698
reactions at stellar surfaces to produce anomalous abundances, (T), 21:46121
reactions in aluminum, glass, iron, lead, magnesium, polyethylene, silicon, silver, and stainless steel at 100 MeV, isotope formation cross sections for, (E), 22:31535
reactions in beryllium oxide at 28.5 GeV, α spectra and alpha to deuteron ratio for, (E), 23:28261
reactions in carbon to 300 GeV, performance of cloud-chamber—ion-chamber stack for measuring cosmic, 21:30725
reactions in emulsions at 20 GeV, π diffraction generation from, (E), 21:17035
reactions in emulsions at 24 and 27 GeV/c, azimuth angular distribution of shower particles from, 21:46480
reactions in emulsions at 24 GeV, p + N elastic cross section in TeV region from, 21:44266
reactions in emulsions at 25 GeV/c, energy of primary and cms velocity of jets from, (E), 21:44263
reactions in gases, energy transfer rates for, 21:3837 (N-66-28518)
reactions in He-4, C-12, N-14, and O-16, cross sections for spallation, (T), 22:19733
reactions in helium-filled streamer chamber, momentum dependence of streamer density per track unit length for ionization, 23:42602
reactions in iron at 200 MeV, photon dose rates from, (T), 24:3953(R) (ORNL-4433)
reactions in lead at 0.85 to 1.7 GeV/c, neutron yield from, (E), 25:59820
reactions in lithium-drifted silicon detectors at 15 to 80 MeV, effects on pulse-height distributions of, 25:2451
reactions in meteorites, cross sections for, (E), 22:52307(R) (AD-665431)
reactions in NIKFI-R nuclear emulsions at 3 to 10 BeV, multiple Coulomb scatterings in, (E), 21:1599
reactions in nuclear emulsion at 500 MeV, helium nuclei emission from, (E), 21:9700
reactions in nuclear emulsions at 25 and 27 GeV/c, interference effects in multiple scattering, (T), 21:4062
reactions in nuclear emulsions at 30.5 GeV/c, meson production from, (E), 21:5354
reactions in nuclear emulsions at 5 to 24 GeV/c, energy loss by ionization in, (E), 23:14940
reactions in oxygen-16 and carbon-12 targets, light-element production from, (E), 23:30214
reactions in shielding materials, Monte Carlo calculations of meson—nucleon cascades from, 21:11686
reactions in shields, secondary nucleon production in, (T) , 21:21015
reactions in soil of semi-infinite beam tunnel at 500 GeV, calculations of long-lived activity from, (T), 25:50208
reactions in spacecraft shielding, cross sections for, (T), 21:31474 (ORNL-TM-1892)
reactions in stars at 10^7 to 5 x 10^7 °K, (T), 23:46170
reactions in stars, nucleosynthesis in, (T), 24:27957
reactions in stony meteorites at 0.660 to 19.2 GeV, (E), 24:32528
reactions in thick targets of aluminum-27, carbon, cobalt-59, and copper at 450 MeV, neutron and proton yields for, (E/T), 23:37111
reactions in tissue at 600 MeV, radioactivity induced in, 21:12829 (CERN-66-34)
reactions in tissues, LET spectral distribution at various depths for, 21:20180 (ORNL-P-2897)
reactions in tungsten targets, photon production in, (E), 21:2677
reactions of 2.7-MeV, with lithium-7 to produce neutrons, 21:19714(P)
reactions of 2-MeV, with gaseous C_6 molecules, 24:9360
reactions of 600-MeV, with cadmium, indium, molybdenum, palladium, rhodium, or silver, reactions of chromium carbonyl with recoil molybdenum from, 25:15717
reactions of 70- to 420-MeV cosmic, with carbon, nitrogen, and oxygen, (E), 25:19531
reactions of cosmic, in muscle tissue of astronauts, radiation dose resulting from, 23:26795
reactions of cosmic, with space resident nuclei, (T), 21:37194 (N-67-19863)
reactions of high-energy, astrophysical implications of, (T), 22:29102
reactions of primary cosmic, neutron spectra from atmospheric, (E), 24:6390
reactions of recoil, in fast-neutron radiolysis of crystalline ammonium iodate, 25:32000
reactions of solar, with lunar surface, 21:9272
reactions of, effects of free energy change on kinetic isotope effects in transfer, 23:31352
reactions of, for use in automated activation analysis, 21:10254(R) (TEES-2671-5)
reactions of, studies of (p anti p,γp) and (π^+,p), 21:14127(R) (NP-16420)

reactions on (100) surface of tungsten at 50 to 225 keV, electron emission in, (E), 21:13350 (SC-DC-66-1559)
reactions with $12 < Z < 83$ nuclei at 0.010 to 5 GeV, properties of low-energy nuclei from inelastic, (T), 25:56522(T) (ORNL-tr-2520)
reactions with 1p-shell nuclei, calculations of spectroscopic factors using wave functions with effective three-body interactions, (T), 23:15373
reactions with $A = 11$ to 27 nuclei at 156 MeV, cross sections for carbon-16, lithium-9, and nitrogen-17 production by, (E), 22:29918
reactions with acetaldehyde—methanol, dipole effects on transfer, 23:47557
reactions with acetylene, ammonia, benzene, krypton, and xenon at 15 to 150 keV, cross sections for charge exchange in, (E), 25:9229
reactions with acetylene, carbon monoxide, ethylene, and nitrogen at 150 to 500 eV, energy loss and electronic excitation in, (E), 24:28101
reactions with adsorbed hydrogen layers on copper at 5 keV, desorption yields from, (E), 25:30257 (EUR-4593, pp 181-6)
reactions with alkali metal vapors at 1 to 20 keV, cross sections for one- and two-electron charge exchange in, (E), 24:28093
reactions with alkali metal vapors at 1 to 20 keV, yields of negative ions from charge exchange in, (E), 23:41977
reactions with alkali metal vapors at 10 to 180 keV, charge exchange cross sections for, 21:7010
reactions with alkali metals at 2 to 50 keV, cross sections for charge exchange in, (E), 22:21845 (NYO-2962-6, pp 63-9)
reactions with alkali-metal atoms and argon, cross sections for formation of excited hydrogen atoms in, (T), 24:49036
reactions with alkali-metal atoms, charge exchange cross sections for, (T), 23:18397
reactions with aluminum and beryllium at 10 and 13.3 GeV/c, gas Cherenkov counter and time-of-flight spectrometer study of low-momentum π^-, K^-, anti p, and anti d yields from, (E), 25:25296 (IFVE-SEF-70-38)
reactions with aluminum and beryllium at 10 to 70 GeV/c, scaling law and empirical formulas for π, K, and anti p production in, (T), 24:51937
reactions with aluminum and beryllium at 70 GeV, Cherenkov counter and spectrometer study of π^-, K^-, anti p and anti d production in, (E), 25:22678
reactions with aluminum and beryllium at 70 GeV, yields and differential cross sections for π^-, K^-, anti p, and anti d production in, (E), 25:19906
reactions with aluminum and copper at 75 and 115 keV, effect of incidence angle on x-ray production in, 23:7102(R) (NYO-2962-7)
reactions with aluminum and copper crystals at 100 to 200 keV, channeling effects on characteristic radiations from, (E), 22:26474
reactions with aluminum and copper single crystals at 70 to 100 keV, x-ray yields from, (E), 21:19296 (UCRL-50001-66-1, pp 1-40)
reactions with aluminum and iron at 35 to 45 MeV, helium-3 and tritium production in, (E), 21:25466 (UCRL-14346)
reactions with aluminum and magnesium, thick-target yield curves for K x-rays produced in, 23:7102(R) (NYO-2962-7)
reactions with aluminum and nickel at 1 to 75 MeV/amu, K-shell ionization and x-ray production in, (E), 25:49710
reactions with aluminum and silver foils at 0.8 to 3.5 GeV/c, transition radiation from, (E), 23:3635
reactions with aluminum and tungsten at 70 GeV, upper limits for cross sections for production of new-type radioactivity from, (E), 25:14541 (JINR-P1-5399)
reactions with aluminum and tungsten at 70 GeV, upper limits for cross sections for new-type radioactivity production from, (E), 25:38657
reactions with aluminum at 1 and 3 GeV, integrated cross sections for fluorine-18 and sodium-24 production in, (E/T), 25:36816 (JINR-P2-5719)
reactions with aluminum at 12 to 70 GeV/c, hypothesis of limiting fragmentation for π and p production in, (E/T), 24:45545
reactions with aluminum at 160 MeV, secondary neutron and proton dose from, 21:37528
reactions with aluminum at 20 to 200 keV, K-shell ionization cross sections for, (E/T), 24:37177(R) (NYO-2962-8)
reactions with aluminum at 20 to 70 GeV, scaling law for π^+ and K^+ production in, (E/T), 23:44598
reactions with aluminum at 25 to 200 keV, cross sections for K-shell ionization in, (E), 23:12551
reactions with aluminum at 29.4 GeV, fluorine-18 production in, 25:50701
reactions with aluminum at 35 to 70 GeV, production of π^-, K^- and anti p from, (E), 24:28486
reactions with aluminum at 43 to 70 GeV, anti d relative yield from, (E), 24:32961 (IFVE-SEF-69-79)
reactions with aluminum at 43, 52, and 70 GeV, production of anti d in, (E), 24:5244
reactions with aluminum at 43, 52, and 70 GeV, π^-, K^-, and anti p production in, (E), 24:5243
reactions with aluminum at 5 MeV, x-ray satellite lines excited in, (E), 25:40346
reactions with aluminum at 600 MeV, production of protons and light nuclides from, (E), 24:40255
reactions with aluminum at 70 GeV and 0°, upper limits for differential and total cross sections for quark production in, (E), 23:51854
reactions with aluminum at 70 GeV in Serpukhov synchrotron, production of π^-, K^-, and anti p in, 23:23595
reactions with aluminum at 70 GeV, cross sections for charge- $-^1/_3$ and charge- $-^2/_3$ quarks in, (E), 24:10669
reactions with aluminum at 70 GeV, cross sections for antihelium-3 production, mass, and charge in, (E), 25:14540 (IFVE-SEF-70-16)
reactions with aluminum at 70 GeV, differential cross sections for antihelium-3 production in, (E), 25:7544
reactions with aluminum at 70 GeV, differential gas and Cherenkov counter study of cross sections for negative particle production in, (E), 24:15600(T) (ORNL-tr-2266)
reactions with aluminum at 70 GeV, gas Cherenkov counter study of meson (π^-) and (K^-), antiproton, and upper limits for antideuteron and mass-2.2-GeV particle production in, (E), 24:3519
reactions with aluminum at 70 GeV, upper limit for quark production in, (E), 23:30709
reactions with aluminum at 70 GeV, upper limits for total and differential cross sections for production of mass <5-GeV/c^2 and charge-1/3 quarks in forward, (E), 24:10672
reactions with aluminum at 70 GeV, upper limits for differential and total cross sections for diquark production in, (E), 25:22676
reactions with aluminum at 70 GeV, upper limits for differential and total cross sections for quark production in, (E), 25:30724(T) (CERN-Trans-71-4)
reactions with aluminum at 70 to 400 keV, cross sections for K-shell ionization in, (E), 24:37186
reactions with aluminum below 70 GeV, meson (π^-), (K^-), and antiproton production and upper limits for production of antideuterons and long-lived particles with mass below 2.2 GeV in, (E), 23:51849 (IFVE-SEF-69-18)
reactions with aluminum between 400 MeV and 2 GeV, secondary-particle production in, (T), 24:32881
reactions with aluminum carbon, cobalt, and copper at 450 MeV, Monte Carlo calculation of neutron spectra from, (E/T), 25:36816 (JINR-P2-5719)
reactions with aluminum crystals at 100 to 200 keV, channeling effects on K-shell excitation in, (E), 22:22201 (NYO-2962-6, pp 36-53)
reactions with aluminum up to 70 GeV, negative particle distributions from, (E), 25:10868 (IFVE-SEF/OP-70-13)
reactions with aluminum, beryllium, copper, and lead at high energies, atlas of hadron momentum spectra from, (T), 25:20028
reactions with aluminum, beryllium, copper, lead, and polyethylene at 12.3 GeV/c, yields and differential production cross sections for π, K, p, and anti p in, 23:8732
reactions with aluminum, bismuth, lead, and tin at 0.15 to 10 GeV, cross sections for tritium production in, (E) , 24:30843
reactions with aluminum, carbon, and iron targets at 130 to 660 MeV, tritium production cross sections for, (E), 21:17335
reactions with aluminum, carbon, copper, and lead at 1 GeV/c, differential and total cross sections for, (E), 25:27959
reactions with aluminum, carbon, copper, and lead at 660 MeV, ionization energy losses in, 23:3251 (JINR-P1-4081)
reactions with aluminum, carbon, copper, and lead at 660 MeV, ionization energy losses in, 23:20661(T) (ANL-Trans-724)
reactions with aluminum, carbon, indium, and sulfur at 3 GeV, angular distribution of integrated hadron fluxes from, (E), 24:10671
reactions with aluminum, carbon, niobium, titanium, and uranium at 10.5 MeV, gamma radiation doses from, (E), 23:36757
reactions with aluminum, copper, and gold single crystals at 0.2 to 1.0 MeV, secondary electron emission in, (E), 22:5809(R) (ANL-7354)
reactions with aluminum, copper, and iron at 40 and 60 MeV, cross-section excitation functions for radioisotope production by, (E), 21:46704
reactions with aluminum, copper, and magnesium at 25 to 50 keV, characteristic x-ray yields from, (E), 21:2040
reactions with aluminum, copper, and tungsten at 250 to 1560 keV, x-ray yields from, (E), 22:960
reactions with aluminum, copper, graphite, and nickel at 660 MeV, dose measurements of secondary neutrons from, 21:21508
reactions with aluminum, copper, lead, and tungsten at 8 GeV/c, meson (K) and (π) and proton production in, (E), 21:7458
reactions with aluminum, cross sections for K-shell ionization in, (E), 25:24854
reactions with aluminum, cross sections for L-shell ionization in, (T), 25:35880
reactions with aluminum, fluorine, magnesium, and silicon at 120 and 660 MeV in emulsions, energy distributions of fragments from, (E), 23:39971
reactions with aluminum, lead, and oxygen at 0.75 to 2 GeV, intranuclear-cascade calculations for, (T), 22:7526 (ORNL-TM-1996)
reactions with aluminum, lead, and oxygen at 750 to 2000 MeV, analytic representation of nucleon and pion emission spectra from, 22:46459 (ORNL-TM-2277)
reactions with aluminum, magnesium, and sodium vapors at 4 keV to 1 MeV, classical calculations of cross sections for hydrogen-atom formation by electron capture in, 24:8352
reactions with aluminum, molybdenum, and tungsten, angular distribution of secondary electrons from, 24:35159
reactions with aluminum, Mylar, nickel, and tantalum foils at 155 and 600 MeV, cross sections for electron capture in, (E), 25:55862
reactions with aluminum, silicon, sapphire, quartz, and lucite ($C_5H_8O_2$) at 10 to 30 MeV, range functions and excitation potentials for, 23:8465
reactions with aluminum-27 and bismuth-209 at 450 MeV, intranuclear cascade calculations of secondary particle energy spectra from, (T), 23:7281(R) (ORNL-4280)
reactions with aluminum-27 and carbon-12 at 25 to 400 MeV, particle evaporation in, (T), 21:5490 (ORNL-TM-1549)
reactions with aluminum-27 and carbon-12 at 660 MeV, lithium-8 spectra and angular distributions from spallation, (E), 24:22092
reactions with aluminum-27 and carbon-12 at 660 MeV, hammerlike tracks in emulsions for study of yields of high-energy charged particles from, (E), 25:40876
reactions with aluminum-27 and lead-20 at 15 and 18 MeV, model calculations of neutron energy spectra from, (T), 24:35822
reactions with aluminum-27 at 143 MeV, neutron energy spectra from, (T), 23:7281(R) (ORNL-4280)
reactions with aluminum-27 at 20 GeV, spectra of light fast fragments from, (E), 25:17827
reactions with aluminum-27 at 29 and 62 MeV, differential cross sections for hydrogen and helium isotope production, (E), 24:8859 (ORNL-4455)
reactions with aluminum-27 at 660 MeV, angular distributions of carbon-11, fluorine-18, and nitrogen-13 from, (E), 25:14945
reactions with aluminum-27 at 70 GeV, π^-, K^-, and anti p spectra from peripheral production in, (E/T), 24:37806
reactions with aluminum-27 at high energies, isobar model for analysis of meson (π) production in, 25:56530
reactions with aluminum-27, beryllium-9, bismuth-209, carbon, cobalt-59, and water at 158 MeV, proton production in, (E), 22:18136
reactions with aluminum-27, beryllium-9, cadmium, carbon, copper, iron, lead, titanium, and uranium above 50 MeV, cross sections for, 23:19250 (JINR-P2-4183)
reactions with aluminum-27, beryllium-9, carbon, fluorine-19, oxygen, and silicon at 24 to 46 MeV, total cross sections for, (E), 25:3568
reactions with aluminum-27, carbon-12, iron-56, and oxygen-16 at 15 to 150 MeV, calculation of gamma production cross sections using intranuclear cascade-evaporation model, (T), 24:40562
reactions with aluminum-27, copper, and nickel at 600 MeV, cross sections for spallation, (E), 24:40608 (IN-1317, pp 69-151)
reactions with aluminum-27, copper-65, lead-207, oxygen-16, and ruthenium-100 at 500 to 3000 MeV, calculations using intranuclear-cascade model, (T), 25:45941
reactions with aluminum-27, multiple rescattering effects on cross sections for Δ^{++} production in, (T), 25:53051 (JINR-P2-5752)
reactions with aluninum-27, beryllium-9, carbon-12, fluorine-19, oxygen-16, and silicon at 24 to 46 MeV, total cross sections for, (E), 24:3853 (UCLA-10-P-18-14)
reactions with americium, neptunium, plutonium, and uranium at 9 to 14.2 MeV, (E), 25:15046
reactions with ammonia and methane at 100 to 1500 eV, cross sections for charge exchange in, (E), 23:10449
reactions with ammonia, carbon dioxide, and water at 30 to 500 eV, differential and total charge-exchange cross sections for, (E), 24:32671
reactions with ammonia, carbon dioxide, carbon monoxide, and methane at 1 to 25 keV, cross sections for electron capture and total ionization in, (E), 25:4963
reactions with ammonium rhenate and osmium targets, production of radioactive rhenium isotopes by, 25:57480 (JINR-P6-5955)
reactions with Apollo 11 samples of flare, ^{56}Co production from, (E), 24:28034
reactions with argon and helium at 3 to 20 keV, differential cross sections for formation of hydrogen 2s atoms and for total scattering in, (E), 25:22362 (N-70-42257)
reactions with argon and helium at 3 to 20 keV, differential cross sections for total scattering and for formation of 2s hydrogen atoms by charge exchange in, (E), 25:38146
reactions with argon and helium, coincidence studies of charge exchange and excitation in, 25:35877
reactions with argon and hydrogen gases at 2 to 70 keV, total cross sections for production of hydrogen 2S atoms in, (E), 23:27375
reactions with argon and nitrogen at 440 keV to 13.75 MeV, cross sections for electron capture and loss in, (E), 22:2816
reactions with argon at 0.15 to 1.0 MeV, cross sections for emission of 4200-A Ar line and 4431-A Ar^+ line from, (E), 23:34283
reactions with argon at 125 to 300 keV, angular and energy distributions of Auger electrons from, (E), 24:51438
reactions with argon at 125 to 300 keV, excitation cross sections and electron energies from autoionization in, (E), 24:15162
reactions with argon at 15 keV, differential cross sections for electron production in, (E), 24:19750
reactions with argon at 20 keV, electron energy spectra and auto-ionization from, (E), 23:39333
reactions with argon at 310, 425, and 578 MeV, cross sections for production of chlorine-39 and -38, sulfur-37, aluminum-29 and -28, magnesium-28 and -27, sodium-24 and -22, fluorine-18, and beryllium-7 from, (E), 24:35877
reactions with argon at 4 MeV, spectral study of pressure dependence of excitation in, 23:12537
reactions with argon hollow cathode discharges at 10 to 70 keV, energy losses in, 21:33394 (AECL-2669)
reactions with argon near targets at 3 GeV, production of radioisotopes in, 22:22511
reactions with argon, cross sections for L-shell x-ray emission in, (E), 25:14004

reactions with argon, electron energy spectrum from, (E), 21:2035
reactions with argon, excitation of 1300-A continuum in, (E), 22:50013
reactions with argon, helium, and hydrogen at 3 to 23 keV, cross sections for production of metastable hydrogen atoms by electron capture in, (E), 23:1222
reactions with argon, helium, and hydrogen molecules at 20 to 150 keV, formation of highly excited hydrogen atoms by charge exchange in, (E), 24:15158
reactions with argon, helium, and neon at 0.6 to 24 keV, polarization of Lyman-α radiation produced by charge exchange in, (E), 25:7180
reactions with argon, helium, and neon at 2 to 120 keV, cross sections for production of excited hydrogen atoms in electron capture for, (E), 22:52514
reactions with argon, helium, and neon up to 24 keV, polarization of Lyman-α radiation from hydrogen atoms formed by charge exchange in, (E), 24:47027
reactions with argon, helium, hydrogen, and nitrogen at 75 to 350 keV, total cross sections for formation of fast excited hydrogen atoms by charge exchange in, (E), 25:9192(R) (ORO-2591-51)
reactions with argon, helium, hydrogen, krypton, nitrogen, and water vapor at 75 to 250 keV, double-electron-capture cross sections for, (E), 23:8453
reactions with argon, helium, nitrogen, and oxygen at 4 to 26 keV, total cross sections for formation of metastable hydrogen atoms by charge exchange in, (E), 25:19504
reactions with argon, helium, nitrogen, and oxygen at 0.15 to 1 MeV, excitation cross sections for, (E), 21:14951(R) (ORO-2591-23)
reactions with argon, helium, nitrogen, and oxygen gases at 4 to 26 keV, total cross sections for formation of metastable hydrogen atoms by charge exchange in, (E), 25:9193 (ORO-2591-52)
reactions with argon, hydrogen, krypton, and xenon molecules at 70 to 1050 eV, charge-exchange cross sections for, (E), 21:16822
reactions with argon, hydrogen, krypton, and xenon molecules at 70 to 1050 eV, charge-exchange cross sections for, (E), 21:16822
reactions with argon, neon, nitrogen molecules, and oxygen molecules at 50 to 300 keV, angular and energy distributions of electrons from, (E), 25:24892
reactions with argon, nitrogen, and oxygen atoms, Born estimates for electron capture from, 22:29263
reactions with argon, nitrogen, and oxygen gases at 25 to 38 MeV, cross sections for electron capture in, (E), 24:10395
reactions with argon, nitrogen, and oxygen gases at 33 and 38 MeV, electron capture cross sections for, 21:33144
reactions with argon-40, high-resolution measurements of isobaric levels by, 21:25467
reactions with arsenic-75, bromine-81, copper-65, germanium-74, germanium-76, selenium-80, and zinc-70, isobaric analog resonances in, (E), 21:40432 (WASH-1074)
reactions with atmospheric gases at 0.28 and 2.0 keV, cross sections for two-electron capture during, (E), 24:49015 (N-69-38564)
reactions with atmospheric nuclei, diffraction dissociation mechanism for heavy-triplet production in cosmic, 24:15603
reactions with atomic and molecular gases, ionization processes in, (T), 21:37182
reactions with atomic helium at 100 keV to 1 MeV, polarization of energy level transitions in, (E), 23:8466
reactions with atomic helium, electron spectrum from decay of autoionizing levels of, (E), 25:49742
reactions with atomic helium, polarization of light from, 22:50026
reactions with atomic hydrogen at 1 eV to 10 keV, calculation of charge-transfer cross section for, 21:33134
reactions with atomic hydrogen, bounds on transition probabilities and cross sections for, (T), 22:43928
reactions with atomic hydrogen, charge exchange in, (T), 22:15343
reactions with atomic hydrogen, excitation cross sections for, (T), 25:49706
reactions with atomic hydrogen, review of theoretical studies of electron capture, excitation, and ionization in, 21:46134
reactions with atoms and molecules, research program on energy degradation in, 24:35178(R) (ORO-3798-50)
reactions with atoms at 300 keV, theory of forward peak in angular distribution of electrons from, 24:17687
reactions with atoms at high energies, comparison of measurements with binary-encounter calculations of K-shell x-ray production in, 24:26001
reactions with atoms having one and two electrons, review of types and uses of data from, 24:19749
reactions with atoms having outer 2p and 3p electrons, cross sections for ionization in, (T), 23:5233
reactions with atoms having Z = 2 to 11, calculation of excitation and ionization cross sections and stopping power for, using generalized oscillator strengths, 25:11715
reactions with atoms having Z = 5 to 10 and 13 to 18, Born and Ochkur calculations of cross sections for removal of 2s or 3s electron from, 24:23777
reactions with atoms in ground state at 5 to 140 keV, excited-state population distributions from charge-exchange, (T), 23:25136 (UCRL-50602)
reactions with atoms, angular distribution of fast K- and L-shell electrons from, (T), 25:4968
reactions with atoms, approximate analytical expressions and scaling relations for excitation and ionization cross sections for, 25:58740
reactions with atoms, binary-encounter approximation for secondary-electron distributions from, 23:8458
reactions with atoms, calculation of cross sections for removal of M-shell electrons by, 21:33214
reactions with atoms, classical approximation for ionization cross sections for, 23:3253 (N-68-27538)
reactions with atoms, classical approximation for ionization in, 22:9058
reactions with atoms, cross sections for ejection of K- and L-shell electrons in, (T), 23:8460
reactions with atoms, effects of orbital momentum on formation of highly excited hydrogen atoms in, (T), 25:58734
reactions with atoms, formulas for differential and total cross sections for, 21:20733
reactions with atoms, impulse approximation for cross sections for inner-shell ionization in, 24:17691
reactions with atoms, impulse-approximation calculation of cross sections for inner-shell ionization in, 24:17658 (N-70-11503)
reactions with atoms, inverted-population production by charge exchange from, (T), 25:43103
reactions with atoms, polarization of characteristic x radiation from, 22:21896
reactions with atoms, polarization of radiation emitted in, review, 24:19749
reactions with atoms, tabulation of excited states from, 21:14950 (ORO-2591-22)
reactions with atoms, theory for ionization in, 24:6363
reactions with auroral atmosphere, relation to altitude-dependent ion formation, (E/T), 25:30397
reactions with barium and strontium at 730 MeV, krypton and xenon yields from spallation, (E), 22:13974
reactions with barium at 680 MeV, relative yields of xenon isotopes from, 24:44031
reactions with barium chloride, production of xenon isotopes from, 21:33179
reactions with barium-130, production of carrier-free cesium-129 by, 25:32010
reactions with beryllium and copper at 12.3 GeV/c, differential cross sections for π, K, anti p, and p production in, (E), 23:25523
reactions with beryllium and iron at 30 GeV, metastable, mass = 3 to 7 GeV particle production from, (E), 22:13647
reactions with beryllium and iron at 4.5 to 6.0 GeV/c, antideuteron production from, (E), 21:27300 (NEVIS-159)
reactions with beryllium and iron at 8.5 to 10.0 GeV/c, lower limits for quark production from, (E), 21:27300 (NEVIS-159)
reactions with beryllium and sodium in monkeys, 21:43342
reactions with beryllium and sodium in tissue equivalent phantoms, 22:25961(R) (BNWL-531-2)
reactions with beryllium at 10 to 500 GeV, meson (π^-) fluxes from, (T), 25:43726 (BNL-15893)
reactions with beryllium at 12 GeV, dosimetry of scattered radiation from, 24:33071 (RISO-M-1241)
reactions with beryllium at 12.3 GeV/c, cross sections for π^+ and π^- production in, 25:22683
reactions with beryllium at 12.5 GeV/c, cross sections for π^+ and π^- production in, (E), 23:23357
reactions with beryllium at 14 MeV, thick target neutron yields and neutron spectra from, 23:25748
reactions with beryllium at 200 GeV, empirical estimation of meson (π) and meson (K) fluxes from, 24:51924 (TID-25473(Vol.1), pp 403-16)
reactions with beryllium at 200 GeV, empirical estimation of neutrino and antineutrino flux from, 24:51925 (TID-25473(Vol.1), pp 417-20)
reactions with beryllium at 27 GeV/c, upper limit of cross sections for quark production in, (E), 24:1512
reactions with beryllium at 30 GeV, anti d production from, (E), 22:13647
reactions with beryllium at 50 MeV, calculation of energy straggling in, 24:3150
reactions with beryllium, aluminum, copper, and lead at 19.2 GeV/c, spectrometer study of particle spectra from, (E), 24:35603 (CERN-70-12)
reactions with beryllium, carbon, lithium, and oxygen at 660 MeV, helium-3 production by, (E), 22:13953
reactions with beryllium-9 and helium-4 at 660 MeV, threshold detector study of angular distributions and number of nucleons from, (E), 22:11582
reactions with beryllium-9 at 16 to 28 MeV, total cross sections for, (E), 21:7688(R) (USC-136-114)
reactions with beryllium-9 at 2.7 to 4.0 MeV, angular distributions for, (E), 22:37340(R) (EANDC(E)-89(U))
reactions with beryllium-9 at 50 MeV, energy correlation spectra from, (E), 25:22962(R) (NP-18497)
reactions with beryllium-9, carbon, copper, and lead at 1 to 3 GeV, deuteron yield and momentum spectra for, (E/T), 24:1769
reactions with beryllium-9, carbon, copper, and lead at 1, 2, and 3 GeV, momentum spectra of protons from, (E), 23:52114
reactions with beryllium-9, carbon, oxygen, and silicon at 25 to 46 MeV, total cross sections for, (E), 23:10928 (UCLA-10-P-18-10)
reactions with beryllium-9, carbon-12, and lithium-6 at 665 MeV, cross sections for fast helium-3 production in, (E), 23:49329(T) (BNL-tr-281)
reactions with beryllium-9, carbon-12, lithium-6, and oxygen-16 at 500 MeV, helium-3 and helium-4 yields for, (E), 24:52404
reactions with bismuth and lead at 1 GeV, cascade neutron angular distributions and spectra from, (T), 21:33954(R) (AECL-2687)
reactions with bismuth-209 at 120 to 660 MeV, yields of secondary (α,xn) reactions relative to astatine-211 for, (E), 25:36723 (JINR-P1-5530)
reactions with bismuth-209 at 39 and 62 MeV, tabulated differential cross sections and angular distributions for deuteron, helium-3, helium-4, proton, and triton spectra and polonium-209—bismuth-209 Coulomb displacement energy from, (E), 25:23031 (ORNL-4638)
reactions with bismuth-209 at 61 MeV, differential cross sections for, (E), 21:46643(R) (ORNL-4134)
reactions with bismuth-209, carbon-12, and iron-54 at 62 MeV, cross sections for charged-particle production in, (E), 23:7281(R) (ORNL-4280)
reactions with bismuth-209, carbon-12, and iron-54 at 60 MeV, differential cross sections for proton production in, (E), 23:7281(R) (ORNL-4280)
reactions with boron chloride at 19.2 GeV/c, spectrometer study of particle spectra from, (E), 24:35603 (CERN-70-12)
reactions with boron-10 at 18.6 MeV, charged-particle spectra for, (E), 23:15363
reactions with boron-10 up to 12 MeV, resonances in, (E), 21:23534(R) (ANL-7246)
reactions with boron-11 and lithium-7, intermediate-coupling model calculations of resonance, 21:29895
reactions with bromine and silver at 13.8 and 24 GeV/c in emulsions, interaction mechanism and nuclear structure determinations from fragmentation in, (E), 23:21050 (JEN-195-IFIC/I-59)
reactions with bromine and silver at 13.8 GeV/c in emulsions, particle production in, (E), 22:24531 (JEN-174-DF/I-52)
reactions with bromine and silver at 2.7 GeV, secondary proton angular distributions and energy spectra from, (E/T), 23:7281(R) (ORNL-4280)
reactions with bromine and silver at 22.8 GeV/c, deuteron production in, (E), 24:13331
reactions with bromine and silver at 24 GeV in emulsions, models for analysis of fission-like disintegrations from, (E/T), 22:20126
reactions with bromine and silver at 25 GeV/c with emission of two Z > 5 particles, (E/T), 22:9850 (INR-P-827/VI/PH)
reactions with bromine and silver in nuclear emulsions at 13.8 GeV/c, fragmentation in, 23:3990
reactions with bromine and silver in nuclear emulsions at 3.7 GeV/c cross sections for, (E), 21:31762
reactions with bromine and silver in nuclear emulsions at 1, 2, and 3 GeV, cross sections for, (E), 22:9837
reactions with bromine and silver in nuclear emulsions at 2.26, 9, and 19.5 GeV, production of fast helium nuclei in, (E), 22:22301
reactions with bromine and silver in nuclear emulsions at 13.8 GeV/c, fragmentation in, 23:3991
reactions with bromine and silver nuclei in nuclear emulsions at 2 to 9 GeV, fragments produced by, (E), 21:17325
reactions with bromine and silver nuclei in nuclear emulsions at 25 GeV/c, production of light nuclei in, (E), 21:12064
reactions with calcium and vanadium at 6 MeV, K x-ray spectra from, (E/T), 24:51384
reactions with calcium, nickel, and titanium at 2 to 28 MeV, cross sections for K-shell ionization and K x-ray production in, (E), 24:21580
reactions with calcium-40 at 10 to 22 MeV, total cross sections for, (E), 23:1805
reactions with calcium-40 at 10 to 22 MeV, total cross section for, (E), 22:15953 (LA-3842)
reactions with calcium-40 at 10.3 to 21.6 MeV, total cross sections for, (E), 25:12497
reactions with carbon and nitrogen at 125 MeV, cross sections for production of lithium, beryllium, and boron isotopes in, (E), 24:24516
reactions with carbon and oxygen at 22 MeV, carbon-11, fluorine-18, and nitrogen-13 yields from, (E), 23:44845
reactions with carbon at 1 GeV, energy distributions of fast neutrons from, 21:46392(R) (N-67-18240)
reactions with carbon at 10 to 1000 GeV, effective cross sections for, (E), 22:22550
reactions with carbon at 14.5 MeV, gamma spectra from, (E), 21:38301(R) (RLO-1388-13)
reactions with carbon at 16 to 28 MeV, total cross sections for, (E/T), 22:18152
reactions with carbon at 2×10^{10} to 6×10^{11} eV, effective cross sections for inelastic, (E), 24:21940
reactions with carbon at 2×10^{10} to 10^{12} eV, cross sections for heavy-particle production in cosmic, 24:30445
reactions with carbon at 2×10^{10} to 10^{12} eV, evidence for proton new interaction process from, (E), 24:8561 (N-69-37606)
reactions with carbon at 20 to 600 GeV in space, effective cross sections of inelastic, (E), 24:30444
reactions with carbon at 24 GeV, neutral baryon production from, (E), 21:3982
reactions with carbon at 660 MeV, alpha clustering theory for intranuclear cascade production in, (T), 24:33023
reactions with carbon at 660 MeV, intranuclear cascades with allowance for alpha clusters for, (T), 25:25455(T) (ORNL-tr-2452)
reactions with carbon at 670 MeV, magnetic and time-of-flight spectrometer study of deuteron spectrum from, (E), 24:28479 (JINR-P1-4985)
reactions with carbon at high energies, large deuteron production from, (E), 21:23314 (BNL-994, pp 70-102)
reactions with carbon at high energy with fast deuteron production, analysis using impulse approximation, (T), 25:33996
reactions with carbon dioxide at 30 to 600 keV, excitation in, 22:9070
reactions with carbon dioxide—helium mixtures at 43.7 MeV, frequency distribution of energy losses in, (E), 22:21890
reactions with carbon dioxides, nitrogen, oxygen, and water at 40 to 1500 eV, charge exchange cross sections for, 22:13234
reactions with carbon foils at 1 to 20 keV, energy loss and angular scattering in, (E), 25:16760
reactions with carbon foils at 130 keV, intensity oscillations of Hβ radiation from excited hydrogen atoms produced in, (E), 25:52623

reactions with carbon foils at 133 keV, zero-field quantum beats in Hα and Hβ emission from, (E), 24:39816
reactions with carbon foils at 3 to 54 keV, angular distributions from, (E), 25:16755
reactions with carbon foils at 50 to 150 keV, relative orbital and magnetic substates of excited hydrogen atoms from, (E), 24:51403
reactions with carbon foils at 50 to 200 keV, periodic intensity fluctuations in Balmer radiation from hydrogen excited atoms from, 24:19734
reactions with carbon foils, effects of initial-state populations and cascades on intensity fluctuations of Balmer lines from hydrogen atoms from, 24:25958
reactions with carbon foils, periodic intensity fluctuations of Balmer lines from excited hydrogen atoms from, (E), 23:41938
reactions with carbon monoxide and dioxide at 30 to 600 keV, luminescence from, 21:9300
reactions with carbon monoxide at 20 to 120 keV, cross sections for excitation of fourth positive band system, ionization, and total inelastic scattering in, (E), 25:7172
reactions with carbon nuclei at 10^{10} to 10^{12} eV of cosmic, effective cross sections in, (E), 22:21928
reactions with carbon nuclei of cosmic, cross sections for inelastic, 21:18478
reactions with carbon oxides at 20 to 600 keV, effective cross sections, 21:622
reactions with carbon, helium, hydrogen, and lithium, energy losses and stopping cross sections for, (T), 24:32611
reactions with carbon, hydrogen, helium, lithium-6, oxygen, and lead at 1 GeV, A dependence of total cross sections for, (E/T), 21:46477
reactions with carbon, iron, magnesium, nickel, oxygen, and silicon at 0.5 to 2.9 GeV, radioisotope production cross sections for, (E), 23:1793
reactions with carbon, nitrogen, and oxygen using recoil protons, average cross sections for, (E), 22:11910
reactions with carbon, oxygen, and silicon at 0.6 and 3 GeV, cross sections for helium-3 and -4 tritium production in, (E), 24:28704(R) (TID-25379)
reactions with carbon-12 and calcium-40 at 1 GeV at 9 to 20°, energy spectra of secondary protons from quasi-free, (E), 24:6688
reactions with carbon-12 and nitrogen-14 at 125 MeV in nuclear emulsions, isotope formation cross sections for, (E), 22:37301
reactions with carbon-12 and oxygen-16 at 70 to 200 MeV, cross sections for isotope production by spallation, (E), 22:7658
reactions with carbon-12 and oxygen-16 at high energy, analysis using intranuclear cascade model, 24:8840 (JINR-P2-4788)
reactions with carbon-12 at 0.1 to 660 MeV, intranuclear cascade model for, (T), 25:59265 (JINR-P2-5991)
reactions with carbon-12 at 1 GeV, multiple diffractive model for, 25:28073
reactions with carbon-12 at 10 to 20 MeV, total cross sections for, (E), 23:1805
reactions with carbon-12 at 10 to 20 MeV, total cross section for, (E), 22:15953 (LA-3842)
reactions with carbon-12 at 2 and 3.66 GeV, polarization and spectra from, (E), 21:17306
reactions with carbon-12 at 20 to 155 MeV, beryllium-7 production in, (E), 21:19196
reactions with carbon-12 at 21.5 MeV, excitation functions for, (E), 23:44836
reactions with carbon-12 at 22 to 44 MeV, cross sections for production of lithium, beryllium, and boron in spallation, (E), 24:24511
reactions with carbon-12 at 24.5 to 44 MeV, boron-10 and -11 production by spallation, (E), 23:34723
reactions with carbon-12 at 660 MeV, cluster-model analysis of intranuclear cascades following, (T), 24:10917(T) (ORNL-tr-2243)
reactions with carbon-12 at 670 MeV, deuteron spectrum and differential cross sections for, (E), 25:31225
reactions with carbon-12 at 730 and 1260 MeV, deuteron yields, momentum, and width from, (E), 23:52113
reactions with carbon-12 to 1 TeV, effect of intermediate resonance production on cross sections for elastic and inelastic, 25:59519
reactions with carbon-12, aluminum-27, iron-56, nickel-58, cobalt-59, nickel-60, zinc-68, zirconium-90, tin-120, and lead-208 at 60 MeV, total cross section for, (E), 23:34722
reactions with carbon-12, bremsstrahlung energy spectra from, (E), 23:10928 (UCLA-10-P-18-10)
reactions with carbon-12, deuterium, helium-4, and oxygen-16 at 1 GeV, total cross sections for, (E), 22:53088
reactions with carbon-12, lead-208, nickel-58, tin-120, and zirconium-90 at 30 and 40 MeV, total cross sections for, 23:32893(R) (ORNL-4404)
reactions with carbon-12, nitrogen-14, and oxygen-16 at 125 MeV in nuclear emulsions, cross sections for, (E), 22:41976
reactions with cerium at 680 MeV, spallation, 22:42829
reactions with cerium, cesium, dysprosium, neodymium, and rare earth mixtures at 730 MeV, xenon isotope spallation yields from, (E), 24:44836
reactions with cerium, thorium, and zirconium targets at 600 keV at ISOLDE, production of rare gases by, 25:44402 (BMBW-FBK-70-28, pp 158-67)
reactions with cerium-140 at high energies, isobar model for analysis of meson (π) production in, 25:56530
reactions with cesium and potassium vapor at 0.5 to 2 keV, charge exchange in, 22:7162
reactions with cesium atomic beams at 1 to 40 keV, charge-exchange cross section from, (E/T), 25:43103
reactions with cesium for production of H^-, charge-exchange, 25:22923
reactions with cesium halides and mixed alkali metal halides, 23:19791
reactions with cesium vapor at 0.5 to 20 keV, charge-exchange cross sections for, (E), 23:8452
reactions with cesium vapor at 0.5 to 20 keV, cross sections for charge exchange in, (E), 24:6375
reactions with cesium vapor at 2.5 keV, cross sections for double and single electron capture in, (E), 24:25999
reactions with cesium, copper, molybdenum, niobium, and stainless steel at 0.12 to 5.0 keV, secondary-electron emission from, 25:40341
reactions with cesium, lithium, and sodium at 0.5 to 500 keV, Born-approximation calculation of excitation cross sectiops for, 25:40387
reactions with cesium, potassium, and rubidium at 2 to 30 keV, (E), 22:1011
reactions with chromium and vanadium, production of chromium-51 by, 25:54691
reactions with cobalt at 100 to 720 MeV, production of cobalt isotopes in, (E), 21:11990(R) (UCD-34-P-75-1)
reactions with cobalt-59 and nickel-62 at 14 MeV, particle spectra from, (E), 24:15938
reactions with cobalt-59 and nickel-62, particle spectra from, (E), 24:10977
reactions with cobalt-59, iron-54, iron-56, manganese-55, and nickel-58, isomeric cross-section ratios for production of iron-53 by, (E), 22:35265
reactions with complex atoms, irregularities in classical ionization cross sections for, (T), 24:32652
reactions with complex nuclei at 0.06 to 20 GeV, overlapping potentials in formulation of multiple scattering theory for, 24:8677
reactions with complex nuclei at 17 and 24 GeV in emulsions, diffraction in, (E/T), 22:39262
reactions with complex nuclei at 340 to 2900 MeV, intranuclear-cascade calculations of secondary nucleon spectra from, (T), 24:38350
reactions with complex nuclei in emulsions at 25 GeV/c, diffraction production of mesons (π) in, (E/T), 24:21939
reactions with concrete shielding at 660 MeV, neutron yield from, 22:34736
reactions with concrete shielding at 660 MeV, neutron back-scattering from, (E/T), 22:3149 (JINR-P16-3514)
reactions with copper and iron at 0.45, 1.0, or 3.0 GeV, nucleon cascades from, (E/T), 21:12439(R) (COO-1167-1)
reactions with copper and nickel at 6 MeV, energy of Kβ x rays from, (E), 24:3179
reactions with copper and nickel at 9 to 12 MeV, optical-model analysis of, (E/T), 21:44659 (CEA-R-3091)
reactions with copper and platinum films at 100 keV, role of backscattering in sputtering from, (E), 24:12629
reactions with copper and tantalum at 380 MeV, angular and energy distributions for, (E), 21:21963 (BNL-994, pp 3-19)
reactions with copper and uranium at 8 GeV/c, Cherenkov counter study of K^- and π^- production and relative yields from, (E), 22:13653 (RPP/H-28)
reactions with copper and uranium at 8 GeV/c, K^- and π^- production in, (E), 22:22309
reactions with copper at 0.45, 1, and 3 GeV using thick targets, yields of manganese-54 and zinc-65 in, (E), 24:28731 (COO-1167-8)
reactions with copper at 0.5 to 1.7 MeV, L/sub III/ ionization cross sections for, (T), 21:2032
reactions with copper at 0.66 GeV, proton angular distributions and spectra from, (T), 21:46643(R) (ORNL-4134)
reactions with copper at 0.75 to 1.5 GeV, meson (K) production, (T), 21:17318(R) (AECL-2659)
reactions with copper at 150 keV, K- and L-shell excitation in, 22:22201 (NYO-2962-6, pp 36-53)
reactions with copper at 200 MeV, intranuclear cascade calculations of secondary proton energy spectra from, (T), 23:7281(R) (ORNL-4280)
reactions with copper at 21.8 GeV/c, spectrometer performance for measuring mesons (π) produced in, 21:8608
reactions with copper at 230 to 760 MeV, isobar production in, (E), 21:11990(R) (UCD-34-P-75-1)
reactions with copper at 24 GeV, dosimetry of scattered radiation from, 24:33071 (RISO-M-1241)
reactions with copper at 270 to 730 MeV, secondary reactions in, (E), 21:42609
reactions with copper at 270 to 730 MeV, secondary reactions in, (E), 21:11990(R) (UCD-34-P-75-1)
reactions with copper at 3 GeV, calculated radioisotope production in, 24:44203
reactions with copper at 3.5 to 6.1 GeV, antiproton production from, (E), 21:27300 (NEVIS-159)
reactions with copper at 30 GeV, anti p production from, (E), 22:13647
reactions with copper at 450 MeV, γ spectra from, (E), 25:53663(R) (COO-1505-48)
reactions with copper at 6 to 10 MeV, production of K/sub α/ and K/sub β/ x rays in, (E), 24:23738
reactions with copper at 60 to 1600 keV, Born approximation calculations of K- and L-shell ionization in, 23:20663 (ORO-2408-9)
reactions with copper at 90 to 440 MeV, cross sections for, (E), 22:12338(R) (COO-1167-3)
reactions with copper at 90 to 440 MeV, radioisotope production cross sections for, (E), 23:21330(R) (COO-1167-6)
reactions with copper films up to 20 keV, ion penetration and energy spectra of emergent ions in, (E), 21:46137
reactions with copper monocrystals at 0.30 to 1.50 MeV, channeling effects on energy loss, secondary-electron emission, and sputtering in, (E), 25:24844
reactions with copper, gold, and iron at 15.8 MeV, associated particle method for measuring total cross sections for, 23:8902
reactions with copper, gold, and silver at 2.2 BeV, angular distributions and energy spectra of lithium-8 production in, 21:21963 (BNL-994, pp 3-19)
reactions with copper, gold, silver, and uranium at 3 and 29 GeV, yields of stable and radioactive rare-gas isotopes from, (E), 24:40594
reactions with copper, gold-197, silver, and uranium at 1, 2, and 3 GeV, cross sections for formation of neon-24 and sodium-24 in, (E), 22:42033
reactions with copper, graphite, and tantalum at 63 MeV in thick targets, neutron angular distribution, energy, and yield from, (E), 22:33822
reactions with copper, magnesium, titanium, and zirconium at 9.1 MeV, total cross sections for, (E), 22:26970
reactions with copper, production of manganese-54 and zinc-65 from, 24:46253
reactions with copper, static potential model analysis of channeling in, 21:6983 (UCRL-12311(Rev.1))
reactions with copper-63 and nickel-60 at 26 MeV, neutron angular distributions and spectra from, (E), 23:1821(R) (COO-1549-10)
reactions with copper-63 and nickel-60 at 26 MeV, neutron angular distributions for, (E), 24:18367(R) (COO-535-603)
reactions with copper-63 and nickel-60 at 26 MeV, neutron spectra and angular distributions for, (E), 23:46940(R) (COO-1549-15)
reactions with copper-63 at 26 MeV, neutron emission from zinc-64 compound nucleus produced by, (E), 24:52537
reactions with crystals, use of color film in study of channeling in, 21:21104
reactions with deuterium and hydrogen atoms, effects of apparatus geometry on charge-exchange cross sections for, 23:5230
reactions with deuterium and hydrogen molecules, isotope effect on cross sections for charge exchange in, (E), 23:39319
reactions with deuterium and hydrogen, electron capture cross section for, (T), 21:43807
reactions with deuterium at 19.2 GeV, Glauber theory of scattering and break-up, 25:47796
reactions with deuterium at 200 MeV, testing impulse approximation by, (E/T), 23:10931
reactions with deuterium atoms below 100 MeV, electron capture from 1s level in, (T), 22:29262
reactions with deuterium hydride ions, cross sections for rotational and vibrational excitation in, (T), 25:1008
reactions with deuterium molecules at 0.3 to 100 eV, cross sections for production of D^+, HD^+, and D_2^+ in, (E), 25:22370
reactions with deuterium molecules at 4 eV, trajectory surface hopping treatment of, 25:52660
reactions with deuterium molecules, comparison of experiment with trajectory-surface-hopping calculations of charge exchange and rearrangement in, 25:52673
reactions with diamonds at high energies, interference in bremsstrahlung from, 24:20118
reactions with dysprosium in MeV range, semiclassical time-dependent perturbation calculations of cross sections for L- and M-shell ionization in, 23:32158
reactions with elements at 550 MeV, cross sections for production of phosphorus-32 and phosphorus-33 in, (E), 24:52510
reactions with elements in ground state at 5 to 140 keV, excited-state population distributions of hydrogen atoms from electron capture in, (T), 23:30345
reactions with elements up to 100 keV, production efficiencies for characteristic soft x rays from, (E), 23:27329
reactions with elements $Z = 20$ to 30 at 5 to 12 MeV, stopping powers of, (E), 23:1210
reactions with elements, gamma spectra from, 21:19581
reactions with emulsion nuclei at 10 to 300 GeV, properties of cosmic, 25:45663
reactions with emulsion nuclei at 19.8 GeV/c, energy spectra and angular distribution of heavy secondary particles from, (E), 23:52122
reactions with emulsion nuclei at 21 and 24 GeV/c in strong magnetic fields, particle diffraction production in, (E), 22:7679
reactions with emulsion nuclei at 22.8 GeV, (E), 21:3981
reactions with emulsion nuclei at 23 GeV/c, hyperon (Λ) multinucleon interactions in hyperfragments from, (E), 21:4193
reactions with emulsion nuclei at 23 GeV/c, mechanism for hyperfragment production from, (E), 21:4206
reactions with emulsion nuclei at 23.0 GeV/c, analysis of nonmesonic hyperfragments from, (E), 21:4207
reactions with emulsion nuclei at 24 and 27 GeV/c, analysis of small size stars from, (E), 21:3980
reactions with emulsion nuclei at 24 and 27 GeV/c, (E), 22:1687
reactions with emulsion nuclei at 25 GeV/c, diffractional production of mesons (π) in, (E), 22:22625
reactions with emulsion nuclei at 25 GeV/c, fragment emission in, (E), 21:4250
reactions with emulsion nuclei at 25 GeV/c, helium-8 production from, (E), 22:3255
reactions with emulsion nuclei at 6.2 GeV/c, isobar model analysis of, 21:3979
reactions with emulsion nuclei at 660 MeV, production of slow π mesons in, (E), 25:53010
reactions with emulsion nuclei at 9 GeV, fast deuteron emission in very large stars from, (E), 21:29439 (INR-775/VI/PH)
reactions with emulsion nuclei at high energies, mass distribution and decays of hyperfragments produced in, (E), 25:9637
reactions with emulsion nuclei at high energy, hyperfragment production in, (E), 21:23484
reactions with erbium and tantalum at 660 MeV, production of dysprosium, europium, gadolinium, and terbium isotopes by, (E), 22:35354
reactions with erbium, production of samarium-140 and samarium-141 in, 21:25913
reactions with erbium, production of thulium-158 and thulium-159 by, (E), 24:49795

reactions with evaporated metallic films at 7 to 40 keV, energy losses and charge exchange in, 23:8462
reactions with even samarium isotopes at 50 MeV, cross sections for, (E), 24:52566(R) (ORNL-4534)
reactions with excited muonic atom, effect of 2PPI muon orbital in, (T), 22:41361
reactions with fluorine-19, nitrogen-15, and oxygen-18 at 156 MeV, cross sections for beryllium-7 production, (E), 21:4228
reactions with fluorocarbons (C_6F_{14}), hydrogen gas, magnesium vapor, and water at 10 to 80 keV, angular distribution and total yield of highly excited atoms from, (E), 24:37235
reactions with foils, review, 25:24840 (UCRL-20253)
reactions with foods, radioactivity induced in, 21:30947
reactions with gas molecules, dissociative and nondissociative charge exchange in, (E), 23:12544
reactions with gaseous targets, energy and angular distribution of ejected electrons from, 23:13974 (BNWL-715(Pt.2), pp 181-225)
reactions with gases and metallic vapors at 5 to 35 keV, excited-state populations ratios for atomic hydrogen from charge exchange in, (E), 23:41949 (UCRL-50642)
reactions with gases and metallic vapors, excited-state population ratios of hydrogen atoms produced by charge exchange in, (E), 25:7185
reactions with gases at .25 to 4.5 MeV, electron capture cross sections for, 22:11215
reactions with gases at 0.1 to 1.5 keV, method using Doppler-shifted Balmer lines for study of charge exchange in, 24:23783
reactions with gases at 0.15 to 1.00 MeV, formation of excited states in, 22:5042(R) (ORO-2591-33)
reactions with gases at 0.5 keV to 5 MeV, analytic cross sections for inelastic, 24:35178(R) (ORO-3798-50)
reactions with gases at 10 to 100 keV, cross sections for electron capture into n = 3 states of hydrogen in, (E), 24:26005
reactions with gases at 10 to 30 keV, formation of metastable hydrogen atoms by charge exchange in, (E), 25:22375
reactions with gases at 10 to 35 keV, electron capture into n = 3 levels of hydrogen by, (E), 23:12565
reactions with gases at 10 to 35 keV, polarization of $3^2D \longrightarrow 2^2P$ radiation from hydrogen atoms produced by, (E), 23:25156
reactions with gases at 100 to 2500 keV, charge-transfer cross sections for, (E), 22:943 (ORNL-TM-1988)
reactions with gases at 100 to 2500 keV, simple electron capture and loss cross sections for, (E), 23:3284
reactions with gases at 20 keV to 100 MeV, cross sections for electron capture in, (T), 22:43943
reactions with gases at 20 to 120 keV, cross sections for electron capture into n = 2 states of hydrogen in, (E), 25:55853
reactions with gases at 20 to 150 keV, cross sections for formation of excited hydrogen atoms by charge exchange in, (E), 25:24904
reactions with gases at 20 to 150 keV, formation of excited hydrogen atoms by electron capture in, (E), 25:994
reactions with gases at 30 to 120 keV, cross sections for electron capture into n = 3 level of hydrogen in, (E), 25:11708
reactions with gases at 300 keV to 1.7 MeV, angular and energy distributions of electrons ejected from, (E), 24:49014 (BNWL-1307(Pt.2), pp 52-4)
reactions with gases at 440 keV to 13.8 MeV, electron-capture cross sections for, (E/T), 21:33205
reactions with gases at 5 MeV, luminescent processes in, (E), 22:5044(R) (ORO-3349-3)
reactions with gases at 5 to 120 keV, electron capture cross sections for 4s state of, 22:5089
reactions with gases at 500 keV to 2 MeV, equipment for measurement of angular and energy distributions of electrons from, 23:51387 (BNWL-1051(Pt.2), pp 200-3)
reactions with gases at 75 to 250 keV, double electron uptake cross section for, (E), 23:3284
reactions with gases at 8.8, 11.8, and 49 keV, energy distribution of secondary electrons from, (E), 23:22868(T) (ANL-Trans-723)
reactions with gases up to 20 MeV, review of cross sections for electron capture in, (E), 25:43149
reactions with gases, charge transfer cross sections for, 22:38794
reactions with gases, charge-exchange cross sections for, 21:3685
reactions with gases, summary of experimental data on electron capture and loss in, 25:58742
reactions with germanium and silicon at 5 to 150 MeV, total cross sections for, (E/T), 22:13927(R) (USC-136-132)
reactions with germanium at 0.35 to 5.5 MeV, stopping power measurements for, 23:21966
reactions with germanium single crystals at 3 keV, secondary emission, scattering, and radiation conductivity in, 24:10364
reactions with glass, iron, and tungsten absorbers, longitudinal development of nuclear-electromagnetic cascades from, 24:37699
reactions with gold and silver at 156 MeV, charged-particle angular and energy distributions from, (E), 21:31801
reactions with gold at 1.0 to 11.0 keV, design of system for studying sputtering, 21:22972(R) (ORO-3557-1)
reactions with gold at 19 GeV/c, hammer tracks in cellulose nitrate track detectors from, 25:44650
reactions with gold at 19 GeV/c, identification of heavy ions ejected in, (E), 24:49824
reactions with gold at 500 eV to 8 keV, sputtering yields in, (E), 24:24135
reactions with gold at 500 eV to 8 keV, yields and angular distributions in sputtering, (E), 22:21846 (ORO-3557-3)
reactions with gold at 660 MeV, production of iridium isotopes in, (E), 22:11954
reactions with gold below 50 keV, measurement of energy loss in, (E), 22:11544
reactions with gold single crystals at 20 to 100 keV, channeling effects on backscattering and sputtering yields from, (E), 24:15388
reactions with gold, lanthanum, tantalum, and uranium at 18 GeV, with iodine-isotope production, 21:25533
reactions with gold-197 at 155 MeV, α—nucleon cascades in, (T), 24:8925(T) (ORNL-tr-1704)
reactions with gold-197 at 2.2 GeV, angular distributions and differential range spectra of terbium-149 recoils from, (E), 25:12580
reactions with gold-197 at 20 GeV, production of alpha-emitting nuclei in, (E), 21:12049
reactions with gold-197 at 29 and 62 MeV, differential cross sections for hydrogen and helium isotopes production in, (E), 24:8889 (ORNL-4460)
reactions with gold-197 at 3 GeV, 24:52605
reactions with gold-197 at 3 GeV, neutron-rich isotopes (A = 7 to 25) from, (E), 24:35862 (PUC-937-369)
reactions with gold-197 at 3 GeV, nitrogen-19 and oxygen-21 production by, (E), 22:53169(R) (PPAD-647-D)
reactions with gold-197, lanthanum, tantalum, and yttrium-89 at 18.2 GeV, formation of antimony and scandium isotopes in, (E), 23:19264
reactions with gold-197, lead, silver, tantalum, and uranium at high energy, cross sections for formation of beryllium-7, sodium-22, and sodium-24 in, (E), 22:42032
reactions with graphite and metal surfaces at 5 to 50 keV, apparent total ion scattering, secondary electron emission coefficients, and electron and ion energy distributions for, (E), 25:2884 (NP-18490)
reactions with graphite and nickel at 660 MeV, energy and spatial distribution of secondary neutrons from, (E), 21:21474
reactions with graphite at 660 MeV, secondary neutron emission from, (T), 21:21475
reactions with hafnium at 70 to 400 keV, cross sections for M-shell ionization in, (E), 24:37186
reactions with heavy atoms, calculation of electron spectra from, 24:10382
reactions with heavy atoms, time-dependent perturbation theory calculations of angular distribution of fast electrons ejected from K and L shells by, 24:17692
reactions with heavy concrete and iron at 3 and 200 MeV, Monte Carlo calculation of photon dose rate from, 23:23580 (ORNL-TM-2498)
reactions with heavy emulsion nuclei at 14 and 24 GeV/c, recoil ranges from, (E), 21:19259
reactions with heavy emulsion nuclei at 14 GeV/c, charged-particle emission in, (E), 21:19258
reactions with heavy emulsion nuclei at 20 GeV/c, beryllium-8 production in, (E), 23:10969
reactions with heavy nuclei at 10 to 700 MeV, (T), 21:2720
reactions with heavy nuclei at 11 to 15 MeV, neutron emission and fission in, (E), 21:40429(R) (RLO-1388-23)
reactions with heavy nuclei at 20.8 GeV/c in emulsions, π^+ and π^- diffraction production in, (E), 25:53012
reactions with heavy nuclei at 24 GeV/c in emulsions, complete disintegration in, (E), 22:22298
reactions with heavy nuclei in animal tissues, gamma spectroscopy of beryllium-7 spallation products from, 23:14053
reactions with heavy nuclei in emulsions at 9 GeV, production of π^+ and π^- (<11 MeV) in, (E), 22:1384
reactions with heavy nuclei in emulsions at 9 GeV, fast deuteron emission in, 22:7436
reactions with heavy nuclei in emulsions in magnetic field at 20.8 GeV/c, angular and momentum distributions of secondary particles in, (E), 23:13029
reactions with heavy nuclei with excitation of isobaric analog resonances, theory for, (T), 23:28272 (ITF-68-84)
reactions with heavy nuclei with isobaric analog excitation, formalism for, (T), 23:40126
reactions with helium above 25 keV, excitation in, (T), 25:55842
reactions with helium and hydrogen at 0.25 to 2.5 MeV, charge-transfer cross sections for, (E), 21:28982
reactions with helium and hydrogen at 0.25 to 2.5 MeV, charge-transfer cross sections for, (E), 21:33112 (AAEC/E-159)
reactions with helium and hydrogen at 100 to 300 keV, angular and energy distributions of electrons from, (E/T), 21:2034
reactions with helium and hydrogen atoms at 3 to 200 keV, normalization of cross sections for production of metastable hydrogen atoms in, (T), 23:25143
reactions with helium and hydrogen atoms at high energies, continuum distorted-wave method for calculation of electron capture in, 25:4958
reactions with helium and hydrogen atoms, impulse-approximation calculation of differential cross sections for ionization in, 24:45018
reactions with helium and hydrogen molecules at 0.3 to 2.0 MeV, angular and energy distributions of electrons ejected in, (E), 25:49731 (BNWL-SA-3793)
reactions with helium and hydrogen molecules at 100 to 2000 keV, binary-encounter calculations of differential cross sections for ionization in, 24:47016
reactions with helium and hydrogen molecules at 300 keV, angular distribution of electrons from, (T), 24:17687
reactions with helium and hydrogen molecules up to 5 MeV, cross sections for electron capture in, (T), 25:55837
reactions with helium and neon at 1 to 100 keV, cross sections for charge exchange into excited and ground states in, (T), 25:2919
reactions with helium and neon atoms, charge exchange cross sections for, (T), 22:19795
reactions with helium and nitrogen at 75 to 400 keV, formation and destruction of hydrogen 3s, excited atoms in, (E), 25:7169
reactions with helium and nitrogen molecules at 1.7 MeV, energy spectra of electrons from, (E), 23:51387 (BNWL-1051(Pt.2), pp 200-3)
reactions with helium and nitrogen molecules at 75 to 400 keV, cross sections for formation of excited hydrogen atoms by charge exchange and excitation in, (E), 24:6361(R) (ORO-2591-44)
reactions with helium and nitrogen molecules at 75 to 400 keV, cross sections for production of excited hydrogen atoms by charge exchange in, (E), 24:30155 (ORO-2591-47)
reactions with helium and nitrogen molecules at 75 to 400 keV, cross sections for formation and destruction of excited hydrogen atoms by charge exchange in, (E), 25:14043
reactions with helium at 0.1 to 1 MeV, polarization of 4^1D—2^1P transition in, 22:31632
reactions with helium at 0.1 to 1.0 MeV, cross sections for excitation of helium 4^1S level in, (E), 22:9044
reactions with helium at 0.15 to 1 MeV, angular distribution and cross sections for formation of helium ions (He^+ and He^{2+}) in, (E), 24:26006
reactions with helium at 0.15 to 1.0 MeV, excitation cross sections for, 22:5087
reactions with helium at 0.15 to 1.0 MeV, excitation cross sections for, 22:5086
reactions with helium at 1 to 1000 keV, electron capture cross sections for, 22:9088
reactions with helium at 1 to 150 keV, cross sections for excitation in, (E/T), 23:22914
reactions with helium at 1 to 150 keV, cross sections for excitation in, (E), 23:30330
reactions with helium at 1 to 3 MeV, double ionization in, 22:13228
reactions with helium at 10 keV, differential cross sections for formation of metastable hydrogen atoms by charge exchange in, (E), 25:9192(R) (ORO-2591-51)
reactions with helium at 10 to 10,000 keV, in coupled-state calculations of cross sections for excitation in, 23:20703
reactions with helium at 10 to 130 keV, excitation of autoionizing levels in, (E), 25:58779
reactions with helium at 10 to 75 keV, excitation functions for, (E), 25:16808
reactions with helium at 100 and 300 keV, classical three-body calculations of differential cross sections for forward electron ejection in, 25:47343
reactions with helium at 100 keV to 1 MeV, polarization of singlet transitions of helium excited by, (E), 24:19749
reactions with helium at 100 keV to 1 MeV, singlet excitation cross sections for, (E), 23:51390
reactions with helium at 100 to 300 keV, energy spectra of electrons ejected in, (E), 25:9241
reactions with helium at 15 to 40 keV, cross sections for excitation of singlet and triplet levels in, (E), 24:17684
reactions with helium at 15 to 40 keV, cross sections for excitation to 4^1D levels in, (E), 24:23810
reactions with helium at 15 to 40 keV, polarization of helium 3^1P—2^1S line excited by, (E), 25:43129
reactions with helium at 15 to 40 keV, polarization of de-excitation light from, (E), 25:7164
reactions with helium at 25 to 125 keV, cross sections for excitation, ionization, and total inelastic scattering and energy distributions of electrons ejected from, (E), 25:4967
reactions with helium at 25 to 125 keV, determination from energy-loss spectra of inelastic cross sections for, 23:46269
reactions with helium at 3 to 26 keV, polarization of Balmer-alpha radiation from excited hydrogen atoms produced in, (E), 23:18390
reactions with helium at 3 to 71 keV, total cross sections for electron capture during, (E), 21:16813
reactions with helium at 300 keV, angular and energy distributions of electrons from excitation and ionization in, (T), 25:16817
reactions with helium at 4 to 20 keV, differential cross sections for production of 2p hydrogen atoms in, (E), 24:45022
reactions with helium at 440 keV to 5.41 MeV, cross sections for electron capture and loss in, (E), 22:2816
reactions with helium at 5 to 150 keV, production of 3s and 4s hydrogen atoms by electron capture in, review, 23:16640
reactions with helium at 5 to 170 keV, coincidence measurements of charge exchange, ionization, and scattering in, 24:23801
reactions with helium at 5 to 5000 keV, integrals and oscillator strengths for helium transitions in, (T), 24:51433
reactions with helium at high energies, calculation of Born cross sections for ionization in, 23:39324
reactions with helium at high energies, compilation of cross sections for, (E), 25:17369 (CERN-HERA-70-2)
reactions with helium atoms at 100 keV to 1.00 MeV, Born approximation of effective excitation cross sections for, (T), 21:624
reactions with helium atoms at 5 to 170 keV, coincidence measurement of charge states after, 25:47332
reactions with helium atoms at high energies, Born approximation for energy level transitions from, 22:29255
reactions with helium atoms below 100 MeV, electron capture from $1s^2$ level in, (T), 22:29262
reactions with helium atoms, excitation cross sections for, (T), 22:29247
reactions with helium gas at 4 MeV, vacuum-ultraviolet emission following excitation in, (E), 25:30284
reactions with helium in kilovolt energy range, electron capture in, (T), 21:46167
reactions with helium in upper atmosphere, (T), 22:44000

reactions with helium ions at 1 keV, cross sections for electron capture in, (T), 21:7014
reactions with helium thick targets at 5 to 40 keV, production of metastable hydrogen atoms by electron capture in, (T), 23:30325
reactions with helium, binary-encounter calculation of cross sections for excitation in, 25:24896
reactions with helium, Born and multistate impact-parameter calculations of cross sections for 2 ^{1}S and 2 ^{1}P excitation in, 24:23785
reactions with helium, Born cross sections for excitation of n^{1}S states as function of n^{-3}, (T), 23:20716
reactions with helium, Born-approximation calculation of differential and total cross sections for simultaneous charge exchange and ionization in, 25:16818
reactions with helium, bound-state effects on charge exchange in, (T), 24:23788
reactions with helium, calculation of accurate first Born approximation cross sections for excitation in, 23:5239
reactions with helium, calculation of first Born approximation cross sections for excitation in, 23:5240
reactions with helium, calculation of first Born-approximation cross sections for excitation to n/sup 1/S states in, 22:47805
reactions with helium, excitation by, 22:41328
reactions with helium, excitation cross sections for, (T), 21:20776
reactions with helium, excitation cross sections for, (T), 25:16804
reactions with helium, excitation in distortion approximation, 22:49995
reactions with helium, excitation processes in, (T), 21: 37159
reactions with helium, first Born approximation cross sections for excitation in, 22:21897
reactions with helium, generalized oscillator strengths and cross sections for, (T), 23:41964
reactions with helium, impact-parameter calculation of electron capture in, 21:7015
reactions with helium, ionization and excitation in, (T), 21:20762
reactions with helium, lithium, nitrogen, and oxygen, ionization cross sections for, (T), 22:17363
reactions with helium, methane, and nitrogen molecules at 200 to 500 keV, angular and energy distributions of electrons ejected from, (E), 25:40373 (HMI-B-104)
reactions with helium, nitric oxide, and nitrogen at 60 to 400 keV, cross sections for excitation in, 22:8997
reactions with helium, relativistic effects on excitation of triplet states in, 22:5074
reactions with helium, single-electron capture by slow, (T), 22:52484
reactions with helium-3 and helium-4 at 3 to 30 keV, charge-exchange and ionization cross sections for, 23: 46279
reactions with helium-3 and helium-4 at 600 MeV, semiconductor telescopes for measurement of recoil nuclei from, 25:37644
reactions with helium-3 in sun, neutrino emission from, (T), 21:9759
reactions with helium-4 and hydrogen above 1 GeV, nuclear structure from, 21:23402 (BNL-11285)
reactions with helium-4 at 2.2 GeV, cross section for tritium production in, (E), 22:26829
reactions with helium-4 at 2.2 GeV, tritium production in, (E), 23:25776
reactions with helium-4 at 46.7 MeV, analysis using the plane-wave Born approximation, (T), 24:13269
reactions with helium-4 at high energies, real part of N + N amplitude from, (T), 21:27515 (INP-534/PL)
reactions with human bone, 600 MeV, 22:51296 (CERN/HER/AP-2-68)
reactions with hydrocarbons at 2.0 and 7.8 TeV, multiplicity for, (E), 25:7549
reactions with hydrocarbons at 40 to 100 keV, charge transfer, ionic fragmentation, and ionization in, (E), 21:13371
reactions with hydrogen 1s atoms up to 500 eV, differential cross sections for Lyman-α excitation and resonant charge exchange in, (T), 24:17680
reactions with hydrogen 1s atoms, perturbed-stationary-state approximation for electron capture in, (T), 25: 52647
reactions with hydrogen 2s and 2p atoms at or above 25 keV, asymptotic expressions for cross sections for excitation in, 23:18447
reactions with hydrogen 2s atoms, transition to ground state in, (T), 25:58746
reactions with hydrogen and helium at 40 to 200 keV, charge transfer cross sections for, (T), 21:29001
reactions with hydrogen and methane at 200 to 720 keV, ionization measurements of, 25:46620 (IN-1407, pp 83-95)
reactions with hydrogen and nitrogen gases up to 1.7 MeV, energy and angular distributions of electrons ejected in, (E), 25:38143 (BNWL-SA-3853)
reactions with hydrogen and nitrogen molecules, optical emission from, (E/T), 22:13260
reactions with hydrogen and oxygen, cross sections for, (E), 22:19772
reactions with hydrogen at 0.1 to 5 keV, impact-parameter calculations of differential and total cross sections for excitation of 2s and 2p hydrogen states in, 25:40380
reactions with hydrogen at 1 to 500 keV, impulse approximation for cross sections for excitation in, 22: 43863
reactions with hydrogen at 25 and 100 keV, angular distributions and electron-exchange probabilities from DWBA calculations of, (T), 25:33079 (JAERI-Memo-4195)
reactions with hydrogen at 440 keV to 2.45 MeV, cross sections for electron capture and loss in, (E), 22:2816
reactions with hydrogen at 5 to 100 eV, resonance charge exchange cross sections for, (E), 21:26976
reactions with hydrogen atoms at 0.1 to 16 keV, use of molecular potential curves in calculation of 2p excitation in, 25:52666
reactions with hydrogen atoms at 0.5 to 50 keV, impact-parameter treatment of, (T), 23:46259
reactions with hydrogen atoms at 0.5 to 50 keV, impact-parameter treatment of, (T), 23:46260
reactions with hydrogen atoms at 0.5 to 50 keV, impact-parameter treatment of, 24:1285
reactions with hydrogen atoms at 1 keV to 1 MeV, Glauber approximation for total cross sections for 1s—2s and 1s—2p excitations in, (T), 25:52650
reactions with hydrogen atoms at 1.0 to 6.0 keV, emission cross sections and polarization of Lyman-alpha radiation from, (E), 23:22886
reactions with hydrogen atoms at 10 to 2500 keV, excitation in, (T), 25:55841
reactions with hydrogen atoms at 10^{-5} to 5 eV, cross sections for symmetric charge exchange in, (T), 24: 12650
reactions with hydrogen atoms at 150 eV to 2.84 keV, differential cross sections for elastic scattering, resonant charge exchange, and excitation in, (T), 25:1004
reactions with hydrogen atoms at 2 to 21 keV, polarization of Lyman-α radiation produced by direct excitation in, (E), 25:7179
reactions with hydrogen atoms at 2 to 21 keV, polarization of Lyman-α radiation from direct hydrogen excitation in, (E), 24:47027
reactions with hydrogen atoms at 3 to 70 keV, total cross sections for charge exchange into metastable state H(2s) in, (E), 23:46266
reactions with hydrogen atoms at 30 and 50 eV, forced common turning-point treatment of excitation in, 25: 55881
reactions with hydrogen atoms at 4 to 625 keV, four-state impact-parameter treatment of 2s and 2p excitation and polarization of Lyman-α radiation for, 24:3168
reactions with hydrogen atoms at 5 eV, cross sections for momentum transfer in, (E), 25:55840
reactions with hydrogen atoms at high energies, asymptotic behavior of charge-exchange cross section for, (T), 24:21603
reactions with hydrogen atoms at high energies, energy dependence of charge exchange in, (T), 25:16825
reactions with hydrogen atoms at high energies, total inelastic and charge-exchange cross sections for, (T), 25:58775
reactions with hydrogen atoms at high energy, cross section for resonant electron capture in, (T), 22:21853
reactions with hydrogen atoms at low energies, formal theory of, 25:58771
reactions with hydrogen atoms at low energies, generalized impact-parameter method for, 25:52637
reactions with hydrogen atoms at low energies, review of perturbed stationary state calculations on, 24:19753
reactions with hydrogen atoms in keV range, accuracy of simplified second Born approximation to total cross sections for excitation in, 24:5003
reactions with hydrogen atoms in keV range, asymptotic expression for 1s—ns excitation cross section for, 24: 3171
reactions with hydrogen atoms in keV range, calculation of excitation cross sections using post form of Vainshtein approximation, 24:25994
reactions with hydrogen atoms in keV range, probability of excitation to 2s state in charge-exchange, as function of scattering angle, (E), 24:37229
reactions with hydrogen atoms up to 3 keV, Glauber-approximation calculations of differential and total cross sections for 1s—3d excitation in, 25:35859
reactions with hydrogen atoms up to 500 eV, electron translation factor and transition operators for calculation of ionization cross sections for, (T), 23: 20709
reactions with hydrogen atoms up to 500 eV, electronic states and transition matrix elements for calculation of ionization cross sections for, (T), 23:20708
reactions with hydrogen atoms up to 500 eV, theory for calculation of total cross sections for ionization in, 23: 20707
reactions with hydrogen atoms, accuracy of second Born approximation for excitation of 1s $\rightarrow$ 2p and 1s $\rightarrow$ 2s transitions from, 22:29260
reactions with hydrogen atoms, angular and energy distribution of electrons from ionization in, (T), 23: 39323
reactions with hydrogen atoms, application of Faddeev equations and Coulomb T-matrix to electron capture in, 24:47026
reactions with hydrogen atoms, application of simplified second Born approximation to excitation in, 22:24048
reactions with hydrogen atoms, asymptotic expression for cross section for excitation in, 23:5237
reactions with hydrogen atoms, calculation of differential cross sections for charge exchange in, using two-state atomic-orbital expansion, 24:17672
reactions with hydrogen atoms, charge overlap effects on induction forces through third order in, (T), 24:37267
reactions with hydrogen atoms, charge-exchange amplitudes for, (T), 24:19745
reactions with hydrogen atoms, charge-exchange amplitudes for, (T), 24:19746
reactions with hydrogen atoms, charge-exchange calculations using velocity-dependent orbitals for, 23: 20713
reactions with hydrogen atoms, closure approximation for excitation of 2s level from, 22:29261
reactions with hydrogen atoms, closure-approximation calculation of cross sections for excitation into 2s state in, 24:17675
reactions with hydrogen atoms, convergence of Faddeev—Watson expansion for rearrangement in, 25: 24899
reactions with hydrogen atoms, cross sections for ionization in, (T), 25:24885
reactions with hydrogen atoms, effect of apparatus geometry on charge-exchange cross sections of, (E), 22:29302
reactions with hydrogen atoms, effects of ion—multipole interactions on excitation of 2s and 2p states in, (T), 24:45039
reactions with hydrogen atoms, eikonal approximation for excitation of 2s state in, 25:55874
reactions with hydrogen atoms, field theoretic treatment of effect of statistics on ionization cross sections for, 24:32654
reactions with hydrogen atoms, first-order impact-parameter treatment of excitation in, 23:14636
reactions with hydrogen atoms, formulas for cross sections for excitation in, 23:5238
reactions with hydrogen atoms, Glauber amplitudes for excitation of ns and np levels in, (T), 25:58766
reactions with hydrogen atoms, Glauber approximation for elastic scattering and excitation in, 25:52634
reactions with hydrogen atoms, Glauber-theory and multistate impact-parameter calculations of excitation cross sections for, 25:35878
reactions with hydrogen atoms, impact parameter calculations of cross section for charge exchange, 24: 32643
reactions with hydrogen atoms, impulse approximation cross sections for electron capture into excited states in, (T), 22:21854
reactions with hydrogen atoms, lithium, and sodium, population of highly excited hydrogen atoms from charge exchange in, (T), 24:51451
reactions with hydrogen atoms, probability of charge exchange and excitation to 2s state in, (T), 25:9201
reactions with hydrogen atoms, radial transition matrix elements for ionization in, (T), 25:52632
reactions with hydrogen atoms, review of charge exchange in, (T), 23:36509
reactions with hydrogen atoms, review of use of Sturmian functions in calculation of charge exchange in, 25:11732
reactions with hydrogen atoms, simplified second Born approximation to total cross sections for excitation in, 24:5002
reactions with hydrogen atoms, theory of, 21:35010 (N-67-17778)
reactions with hydrogen atoms, total cross section for excitation above 25 keV in, (T), 23:3267
reactions with hydrogen atoms, use of Faddeev equations and Coulomb T matrix in calculation of asymptotic amplitude for electron capture in, 25:9211
reactions with hydrogen excited atoms, classical calculation of cross sections for resonance charge transfer in, 23:41969
reactions with hydrogen excited atoms, computer program for calculation of charge-transfer and excitation probabilities for, 25:16822
reactions with hydrogen excited atoms, quantal eight-state approximation for resonance charge exchange in, 25:9203
reactions with hydrogen excited atoms, quantal two-state approximation of cross sections for resonance charge transfer in, 23:41968
reactions with hydrogen in aurora, Hα emission from, 21:41906
reactions with hydrogen ions (H$^-$) at 0.15 to 300 eV, merged-beam measurements of cross sections for charge exchange in, 24:19747
reactions with hydrogen ions (H$^-$) at 0.6 to 4 keV, cross sections for charge exchange in, (E), 24:17678
reactions with hydrogen ions (H$^-$) in eV range, total cross sections for mutual neutralization in, (T), 24: 49033
reactions with hydrogen ions (H$^-$), adiabatic polarization of ground-state by excited hydrogen atoms in, (T), 24: 26021
reactions with hydrogen molecules and rare gas atoms, review of charge exchange in, (E), 25:58743
reactions with hydrogen molecules at 10 eV, differential cross sections for excitation of resolved vibrational states in, (E), 25:27450
reactions with hydrogen molecules at 5 to 50 keV, charge-exchange cross sections for, (E), 23:30352
reactions with hydrogen molecules up to 10 eV, crossing of potential-energy surfaces in, (T), 25:35885
reactions with hydrogen molecules, calculation of potential-energy surface for, using Gaussian basis sets, 24:37197
reactions with hydrogen molecules, charge-exchange cross sections for, (T), 23:20693
reactions with hydrogen molecules, reaction rate determination from positive ion mobility measurements, 22:41376
reactions with hydrogen plasma, wave excitation in, (E), 21:18674
reactions with hydrogen, 1s $\rightarrow$ ns excitation cross sections for, (T), 23:12566
reactions with hydrogen, charge exchange cross sections for, 22:9427 (TID-24201)
reactions with hydrogen, charge exchange probability at large angles in, (T), 22:21852
reactions with hydrogen, charge-exchange cross sections for, (T), 22:17361
reactions with hydrogen, cross sections for electron capture in, (T), 25:24907
reactions with hydrogen, deuterium, and nitrogen, excitation of pure vibrational modes in, 23:46244
reactions with hydrogen, electron capture into metastable 2s state, 22:31608
reactions with hydrogen, excitation cross sections for, (T) , 22:9019
reactions with hydrogen, excitation cross sections for, 21:37150
reactions with hydrogen, Monte Carlo calculation of ionization cross sections for, 23:8440
reactions with hydrogen, use of Coulomb T matrix in calculations of charge exchange in, 24:23797

reactions with hydrogen-like atoms, relativistic formula for, 23:34282
reactions with indium and silver at 200 and 400 MeV, recoil ranges in spallation, (E), 22:14036
reactions with indium and silver at 200 and 400 MeV, recoil studies of, (E), 21:31773(R) (COO-1505-17)
reactions with indium and silver at 200 and 400 MeV, cross sections for, (E), 22:14035
reactions with indium isotopes and silver isotopes at 200 to 400 MeV, production of palladium isotopes and silver isotopes in, (E), 21:5503(R) (NYO-2897-17)
reactions with indium, molybdenum-100, tantalum, and uranium at 10.5 GeV, cross sections for production of sodium isotopes by, (E), 22:24864
reactions with intermediate nuclei at 400 MeV to 24 GeV, calculation of spallation cross sections for, (T), 25:36689 (NP-18820)
reactions with interstellar gases, helium production in, (E/T), 22:11267
reactions with ionized lithium, electron capture cross sections for, (T), 22:11210
reactions with ions in corona, fine-structure excitation rates for, (T), 24:35111
reactions with iridium at 24 GeV, lithium-6 production from, (E), 24:1766
reactions with iridium in inorganic iridium compounds at 660 MeV, production of rhenium by, 25:2300
reactions with iron above 1.5 TeV, ionization spectrometer study of inelasticity coefficients for, (E), 25:56414 (INP-757)
reactions with iron and lead at 3 GeV, angular distribution of integrated hadron fluxes from, (E), 24:10671
reactions with iron and nickel at 590 MeV using thin and thick targets, cross sections for spallation, (E), 25:23004
reactions with iron and silicon at 600 MeV and 24 GeV, aluminum-26 production cross sections for, (E), 25:36689 (NP-18820)
reactions with iron at 1 and 3 GeV, cross sections for manganese-54 production in, 24:3803 (ORNL-TM-2722)
reactions with iron at 1 and 3 GeV, Monte Carlo calculations of residual nuclei production in, 23:21127
reactions with iron at 1 and 3 GeV, Monte Carlo calculations of nucleon—meson cascade in, 22:46463
reactions with iron at 1 and 3 GeV, spatial dependence of nucleon—meson cascade from, (T), 24:42747 (ORNL-RSIC-25(Suppl.1))
reactions with iron at 1.0 and 3.0 GeV, Monte Carlo calculation of nucleon—meson cascades from, 22:32172
reactions with iron at 10 to 28 GeV/c in iron—scintillation spectrometer, Monte Carlo simulation of nuclear electromagnetic cascades from, 24:13008
reactions with iron at 10 to 60 MeV, cross sections for radioisotope production in, (E), 21:33872(R) (ORNL-4122)
reactions with iron at 100 GeV, cloud chamber study of, (E), 22:24545
reactions with iron at 19.2 and 30.3 GeV/c, galactic cosmic ray transport from Monte Carlo calculation of high-energy nucleon—meson showers from, (T), 25:22777 (ORNL-TM-3319)
reactions with iron at 200 MeV, calculation of residual photon dose rate from, (T), 24:6779
reactions with iron at 3 GeV, calculated radioisotope production in, 24:44203
reactions with iron at 40 to 1000 GeV, meson (π) and nucleon star production in, (T), 25:50149
reactions with iron at 400 GeV, Monte Carlo calculations of nucleon- and meson (π)-induced star and flux distributions from, (T), 25:59507 (ORNL-4673)
reactions with iron at 600 MeV, γ spectra and cross sections for, (E), 23:25901 (IN-1218, pp 73-138)
reactions with iron at 730 MeV, production of manganese-53 by, 25:21064
reactions with iron, nuclide production by, 22:789 (NYO-844-72)
reactions with iron-54 at 29, 39, and 62 MeV, cross sections for production of hydrogen and helium particles in, (E), 24:24519 (ORNL-4469)
reactions with iron-56 at 61 MeV, production cross sections for hydrogen and helium isotopes, (E), 24:5400 (ORNL-4456)
reactions with iron-56 to 1 TeV, effect of intermediate resonance production on cross sections for elastic and inelastic, 25:59519
reactions with iron-56, nitrogen-14, and tantalum-181 at 18 MeV, model calculations of neutron energy spectra from, (T), 24:35822
reactions with krypton at 70 to 200 eV, differential cross sections for nonresonant charge transfer in, (E), 22:1010
reactions with lead and depleted uranium at 540 MeV in thick targets, thermal neutron production by, (T), 21:46643(R) (ORNL-4134)
reactions with lead and uranium at 11.5 GeV, production of sodium-24 in, (E), 21:31773(R) (COO-1505-17)
reactions with lead at 1 GeV, neutron production by, (E), 21:4316
reactions with lead at 3 GeV, neutron flux from, 23:28076
reactions with lead at 3 GeV, spallation, (E), 22:30031
reactions with lead at 9 GeV, emulsion study of emission of 17- to 110-MeV deuterons in, (E), 25:33534 (INR-P-1256)
reactions with lead target in water at 0.9 GeV, thermal neutron flux from, (T), 23:1881 (ORNL-TM-2364)
reactions with lead—water system at 400, 500, and 660 MeV, neutron yields and thermal neutron flux from, 23:21233
reactions with lead-208 at 0.5 to 3.0 GeV/c, collision parameters for p + n interactions from, 25:47906
reactions with lead-208 at high energies, isobar model for analysis of meson (π) production in, 25:56530
reactions with lead-208, uranium-233, uranium-235, and uranium-238 at 12 GeV, sodium-24 production cross sections for, (E), 22:9875
reactions with light emulsion nuclei at 23 GeV/c, primary energy estimation for, (E/T), 23:10951
reactions with light nuclei in emulsions at 22.8 GeV/c, particle production in, (E), 23:1820
reactions with light-weight nuclei at 156 MeV, cross sections for production of lithium-9, carbon-16, and nitrogen-17 by, (E), 22:29912
reactions with lithium and sodium atoms, cross sections for, (E), 23:6890
reactions with lithium and sodium, calculation of cross sections for charge exchange in, 22:49985 (NP-17621)
reactions with lithium at 22 MeV, angular distribution, energy, and yield from, 22:20387
reactions with lithium at 40 to 400 keV, cross sections for charge exchange in, (E), 24:35198
reactions with lithium at 97 to 203 keV, alpha yields from, (E), 22:29931
reactions with lithium-6 and -7, destruction cross sections for, (E/T), 24:1748
reactions with lithium-6, beryllium-9, and carbon-12 at 665 MeV, cross sections for fast helium-3 production in, (E), 23:25812 (JINR-P1-4373)
reactions with lithium-6, beryllium-9, carbon-12, and oxygen-16 at 665 MeV, production of fast helium-3 and -4 knocked out in, (E), 24:30715
reactions with lithium-drifted silicon detectors at 15.1, 21.6, and 26.5 MeV, 25:6549
reactions with load-208 at 19.3 GeV/c, multiple diffractive model for, 25:28073
reactions with low- and medium-Z elements at 16 to 160 MeV, gamma spectra from, (E), 22:5763 (ORNL-4183)
reactions with lunar matter, galactic cosmic ray transport from Monte Carlo calculation of high-energy nucleon—meson showers from, (T), 25:22777 (ORNL-TM-3319)
reactions with magnesium vapor and neon at 5 to 70 keV, cross sections for electron capture into hydrogen n = 6 level in, (E), 23:27384
reactions with magnesium vapor at 5 to 70 keV, cross sections for electron capture in, (E), 23:25142
reactions with magnesium vapor, charge-exchange cross sections for, 22:31597 (ORNL-4238, pp 105-15)
reactions with magnesium vapor, hydrogen atom production by charge exchange in, 25:17213(T) (UCRL-Trans-10497)
reactions with magnesium vapor, production of hydrogen atom beams by charge exchange in, 24:23732 (IAE-1951)
reactions with magnesium vapors, charge exchange cross sections for, 21:46306 (UCRL-50002-67, pp 7-58)
reactions with magnesium vapors, charge exchange cross sections for, 21:46335 (UCRL-50002-67, pp 127-46)
reactions with magnesium vapors, charge-exchange cross sections for, 21:11593 (UCRL-50002-66-1, pp 5-59)
reactions with magnesium, silicon, and sulfur isotopes at 300 and 400 MeV, cross sections for production of fluorine-18, sodium-22, and sodium-24 in, (E), 24:24529
reactions with matter, energy straggling distributions in, 22:24765
reactions with matter, LET for, 22:10761 (MIT-952-4, pp 132-201)
reactions with medium and heavy elements at 10 MeV, production of short-lived isomers by, (E), 22:24874
reactions with medium and heavy nuclei at 156 MeV, charged-particle distributions from, 23:5938
reactions with medium-weight nuclei at 14.5 MeV, total cross sections from beam attenuation measurements, 21:31761
reactions with medium-weight nuclei at 590 MeV and 7 GeV, yields of potassium isotopes in spallation, (E), 21:38290
reactions with medium-weight nuclei at 60 MeV to 2.9 GeV, cross sections for spallation products from, (T), 25:12439
reactions with mercury atoms, excitation of 6^1P_1 and 6^3P_1 levels from, (T), 22:29682
reactions with metal foils at 1 to 10 keV, effects of hydrogen on secondary electron emission from, 22:9043
reactions with metal targets at 1.5 to 4.5 MeV, optical radiation from, (E), 25:55813 (JINR-P4-5957)
reactions with metallic films at 7 to 35 keV, stopping cross sections for, (E), 21:37124
reactions with metallic thick targets at 90 to 360 keV, yields of characteristic x rays from, (E), 25:13962
reactions with metals and nonmetals at 100 to 350 keV, characteristic spectra and yields per proton of x rays from, (E), 25:2882 (CONF-700322-, pp 113-24)
reactions with metals at 35 keV, hydrogen-bond effects on, (E), 23:39331
reactions with metals at 90 to 180 keV, ratios of inner-shell ionization cross sections for, to corresponding deuteron-bombardment cross sections, 25:19470
reactions with metals, kilovolt sputtering, 21:18407(R) (N-67-13184)
reactions with meteorites and lunar materials, particle tracks from, 25:45165
reactions with meteoritic materials, luminescence produced by, (E), 21:13405(R) (AD-640495)
reactions with molecular deuterium, hydrogen, and nitrogen gases, Lyman-α spectra from, (E), 21:33200
reactions with molecular gases at 5 to 45 keV, cross sections for fragmentation and ionization in, (E), 23:5231
reactions with molecular gases at 5 to 45 keV, fragmentation from, (E), 22:29267
reactions with molecular hydrogen at 0.1 to 6.0 keV, method for double charge exchange cross sections for, (E), 21:31256
reactions with molecular hydrogen ions, effect of vibrational excitation on dissociation in, (T), 22:9036
reactions with molecular hydrogen, cross sections for, (E), 22:5059
reactions with molecular hydrogen, emission spectra from, 22:9063
reactions with molecular hydrogen, vacuum ultraviolet emission from, (E), 22:31642
reactions with molecular nitrogen and oxygen at 1 to 30 keV, Lyman-α emission cross sections for, (E), 25:40487
reactions with molecular nitrogen at 0.15 to 1.0 MeV, excitation cross sections for, 22:9064
reactions with molecular nitrogen, excitation spectra for, (E/T), 22:41310
reactions with molecules, binary-encounter calculation of ionization cross sections for, 25:30299
reactions with molecules, energy distributions from, 22:25403
reactions with molybdenum surfaces in keV range, Doppler shift of Lyman-α radiation from, (E), 24:25956
reactions with molybdenum, secondary electron emission from, (E), 23:22880
reactions with multishell atoms at 50 to 300 keV, comparison of experimental and theoretical cross sections for electron production in, 25:24893
reactions with muscle-equivalent plastic, measurement of endothermic processes in, 23:13974 (BNWL-715(Pt.2), pp 181-225)
reactions with N = 82 isotones, (E/T), 24:52566(R) (ORNL-4534)
reactions with N_2 and N_2—O_2 systems at 5 MeV, luminescence in, (E), 23:10434(R) (ORO-3349-4)
reactions with n-electron atoms, formula for excitation cross sections for, 21:20776
reactions with natural aluminum, magnesium, and silicon at 6 to 52 MeV, cross sections for aluminum-26 and sodium-22 formation in, (E), 25:59753
reactions with natural copper at 82 to 416 MeV, analysis of excitation functions for, (E/T), 25:41203 (COO-1167-12)
reactions with natural glasses, meteorites, and rocks, luminescence from, (E), 22:11113
reactions with natural tantalum, thorium, uranium, and vanadium at 156 MeV and 24 GeV, Monte Carlo analysis of cross sections for production of cesium, potassium, and rubidium from, (E), 25:36730 (NP-18829)
reactions with negative ions above 10 keV, charge exchange in, (T), 25:27456
reactions with neodymium-144, production of promethium-143 and promethium-144 from, 23:11444 (BNWL-481-2, pp 1-126)
reactions with neon and oxygen-16 at 13 MeV, cross sections for, (E), 21:11978
reactions with neon at 100 to 300 keV, autoionizing levels of neon produced by, (E), 23:1192
reactions with neon at 150 to 250 keV, autoionization in, (E), 22:31640
reactions with neon at 28 GeV/c in neon—hydrogen bubble chamber, coherent production of $p\pi^+\pi^-(1470)$ enhancement in, (E), 22:41729 (BNL-12674)
reactions with neon at 28 GeV/c, coherent production of $p\pi^+\pi^-(1470)$ enhancement in, (E), 23:10749
reactions with neon at low energies, cross sections and adiabatic parameters for one- and two-electron transfer in, (T), 24:23779
reactions with neutral atoms with outer 2P and 3P electrons Born approximation for ionization from, 22:29264
reactions with nickel at 10 to 40 MeV, activation cross sections for, (E), 25:36738(R) (UCLA-10-P-18-23)
reactions with nickel nuclei in nuclear emulsions at 10 GeV, (E), 22:21976
reactions with nickel, cobalt-57 yields in, (E), 21:44616
reactions with nickel-58 at 8 to 40 MeV, 21:17698
reactions with nickel-60 at 61.7 MeV, cross sections and spectra from, (E), 25:43833 (ORNL-4698)
reactions with niobium-93 at 0.2 to 0.9 GeV, excitation functions for, (T), 25:31368
reactions with niobium-93 at 30 MeV, cross sections for, (E), 21:7688(R) (USC-136-114)
reactions with nitrogen at 1 to 25 keV, ionization and charge-capture cross sections for, 23:48749
reactions with nitrogen at 20 to 600 keV, emission, ionization, and charge-exchange cross sections from, 21:20781
reactions with nitrogen molecules at 0.3 to 1.7 MeV, angular and energy distributions of electrons ejected from, (E), 25:11712
reactions with nitrogen molecules at 0.56 to 1.7 keV, spectra excited by, 25:988
reactions with nitrogen molecules at 1 to 150 keV, cross sections for emission of first negative band system in, (E), 25:16801
reactions with nitrogen molecules at 1 to 25 keV, cross sections for excitation, ionization, and electron capture in, (E), 24:17653 (AD-693127)
reactions with nitrogen molecules at 1 to 5 MeV, fluorescence efficiencies for excitation in, (E), 25:9234
reactions with nitrogen molecules at 1 to 5 MeV, relative efficiencies for excitation of nitrogen bands in, (E), 24:15146 (LA-4314)
reactions with nitrogen molecules at 1.5 to 30.2 keV, emission cross sections for, (E), 23:46275
reactions with nitrogen molecules at 100 eV to 13.5 keV, velocity dependence of vibrational excitation in N_2^+ first negative system in, (E), 23:8457
reactions with nitrogen molecules at 100 keV, upper limit of cross sections for emission of N_2 second positive bands in, (E), 24:8348
reactions with nitrogen molecules at 20 to 100 keV, cross sections for excitation of N_2^+ first negative bands in, (E), 23:22884
reactions with nitrogen molecules at 20 to 100 keV, cross sections for emission of N_2^+ first negative bands from, (E), 24:8348
reactions with nitrogen molecules at 20 to 100 keV, measurement and analysis of optical emissions from, (E), 23:30321 (AD-683795)

reactions with nitrogen molecules at 20 to 120 keV, energy-loss spectra and cross sections for excitation, ionization, and total inelastic scattering in, (E), 24: 21582
reactions with nitrogen molecules at 25 to 100 keV, total cross sections for charge exchange in, (E), 24:3191
reactions with nitrogen molecules at 3 to 37 keV, dissociative ionization due to vibrational excitation in, (E), 23:8480
reactions with nitrogen molecules at 30 to 100 keV, absolute emission cross sections for, (E), 25:2902 (SC-RR-70-695)
reactions with nitrogen molecules at 600 eV to 10 keV, rotational excitation of N_2^+ from, (E), 23:27378
reactions with nitrogen molecules, cross sections for production of hydrogen Balmer-alpha and 3914-A N_2^+ radiation in, (E), 23:25146
reactions with nitrogen, carbon-11 and nitrogen-13 yields from, (E), 24:45757
reactions with nitrogen, electron capture, cross sections for Balmer-α radiation, polarization of 3d $\rightarrow$ 2p and 3p $\rightarrow$ 2s radiation measurements in 10- to 35-keV, (E), 22:41371
reactions with nitrogen, optical spectra from, 22:5071
reactions with nitrogen, oxygen, and nitrogen—oxygen mixtures at 20 to 100 keV, emission spectra from, 21: 20755
reactions with nitrogen-14 at 46 MeV, charged-particle spectra and angular distributions from, (E), 24:20328
reactions with nitrogen-14 at 6 to 12 MeV, angular distributions and integrated cross sections for, (E), 22: 39586
reactions with nitrogen-14 at 6 to 9 MeV, charged-particle yields and angular distributions for, (E), 22: 29924
reactions with nitrous oxide, ion production in, 21:3687
reactions with nuclear emulsions at 28 GeV, energy spectra of lithium-8 fragments from, (E), 25:59278
reactions with nuclear emulsions at 9 to 19.5 GeV, helium-3 emission in, (T), 21:31714
reactions with nuclei (Z = 12 to 34) at 100, 200, and 300 MeV, energy dependence of production cross section for sodium-22 and -24 from, (E), 24:35841
reactions with nuclei above 10 TeV in atmosphere, singularities in π^0 production in, (E), 22:44323
reactions with nuclei above 100 GeV, interaction mechanism for multiple particle production from, (E/T), 23:51951 (JINR-P2-4662)
reactions with nuclei at 0.05 to 30 GeV in emulsions, Monte Carlo method for calculating intranuclear cascades from, 24:6732
reactions with nuclei at 0.1 to 10 GeV, cross-section calculations using Glauber theory, 24:8926(T) (ORNL-tr-2235)
reactions with nuclei at 0.1 to 10 GeV, Glauber theory for energy dependence of cross sections for, 23:42690 (JINR-P2-4509)
reactions with nuclei at 0.1 to 20 GeV/nucleon in emulsions, track multiplicity in, (T), 25:47892(T) (ORNL-tr-2503)
reactions with nuclei at 1 GeV, excitation of low-lying states in, (T), 22:48626
reactions with nuclei at 1 GeV, experimental studies of nucleon correlations from, 25:27958
reactions with nuclei at 1 GeV, high-momentum deuteron production from, (E), 21:44259 (BNL-11715)
reactions with nuclei at 1 GeV, magnetic spectrometer study of high-momentum deuteron production from, (E), 22:3257
reactions with nuclei at 1 GeV, small-angle elastic, (T), 22:48626
reactions with nuclei at 1 to 3500 MeV, computer program for intranuclear-cascade calculations of, (T), 25:36733 (ORNL-4564)
reactions with nuclei at 1 to 900 GeV, cross sections and resonances in coherent production of particles in, (E/T), 24:47481
reactions with nuclei at 1.0 to 3.0 GeV, meson (π) production from, (E), 21:23314 (BNL-994, pp 70-102)
reactions with nuclei at 1.2 GeV/c, Monte Carlo calculation of nucleon double differential distributions for, (T), 23:42979
reactions with nuclei at 10 to 1000 GeV in emulsions, spallation without particle production in, (E), 23: 23345
reactions with nuclei at 10, 16, 17, and 28 MeV, effects of Z = 28 shell closure on total cross sections for, (E/T), 22:13927(R) (USC-136-132)
reactions with nuclei at 10.8 and 18.0 GeV/c, absorption cross sections for, (E), 21:37697 (BNL-11598)
reactions with nuclei at 10^{12} to 10^{13} eV in emulsions, production of eta, K, π, p, phi, and aleph baryon in, (E), 24:35604 (SJC-P-70-2)
reactions with nuclei at 10^3 to 10^5 GeV in air, energy dependence of cross sections for inelastic, (E), 25: 40877
reactions with nuclei at 1000 GeV in emulsions, K/π ratio of secondaries in shower production from, (E), 25:14509 (INP-718)
reactions with nuclei at 19.3 GeV/c, high-energy currents for total cross sections for, 21:42386
reactions with nuclei at 19.8 GeV/c in emulsions, particle coherent production mechanism and N*(1470) production in, (E), 25:22672
reactions with nuclei at 2.26 GeV in emulsions, helium-4 emission from, (E), 21:25477
reactions with nuclei at 20 and 23 GeV in emulsions, fireball formation in, (E), 23:18798
reactions with nuclei at 20 and 24 GeV/c in emulsions, double emission of heavy fragments from, (E), 25: 1399
reactions with nuclei at 20 GeV/c in emulsions, emission of hammer tracks from, (E), 25:1400
reactions with nuclei at 20 GeV/c in emulsions, heavy short-range hyperfragment production from, (E), 22: 5500
reactions with nuclei at 20 to 23 GeV in emulsions, diffraction production of particles in, (E), 22:44322
reactions with nuclei at 20 to 23 GeV, process of fireball formation in, 24:21930
reactions with nuclei at 20 to 600 GeV, Glauber model for nucleon—nucleon interaction in cross sections of, 24:21994
reactions with nuclei at 20.8 GeV/c in emulsions, distributions of transverse momenta of secondary particles in, (E), 22:32053
reactions with nuclei at 20.8 GeV/c in emulsions, mechanism for π^+ and π^- diffractive production in, (E) , 25:1406
reactions with nuclei at 21 and 24 GeV in emulsions, resonance production in, (E), 22:44321
reactions with nuclei at 21.4 GeV/c, energetic helium-3 fragments from, (E), 21:38236
reactions with nuclei at 22.8 GeV/c in emulsions, method for identification of shower particles from, (E), 25:36402
reactions with nuclei at 22.8 GeV/c in emulsions, review of particle production in, 23:18795 (CONF-671217-, pp 589-695)
reactions with nuclei at 23 GeV in emulsions, momentum, angular, and energy distributions from quasi-nucleon, (E), 25:1403
reactions with nuclei at 24 and 28 GeV in bubble chambers and emulsions, methods of primary energy determination for jet production from, (T), 22:20133
reactions with nuclei at 24 GeV/c in emulsions, deuteron emission in, (E), 25:36403
reactions with nuclei at 24 GeV/c in emulsions, double emission of $Z > 3$ fragments in, (E), 22:44326
reactions with nuclei at 24 GeV/c in emulsions, N(1240) production in, (E), 24:40252
reactions with nuclei at 25 GeV/c in emulsions, azimuthal angular distribution of secondary particles in diffractional generation in, (E), 22:32051
reactions with nuclei at 25 to 400 MeV, nonelastic cross sections and particle emission spectra from, (T), 21: 37529
reactions with nuclei at 26 GeV in emulsions, emission of excess of light mesons in relation to Dalitz pairs in, (E), 25:9642
reactions with nuclei at 28 GeV in emulsions, along-the-track scanning method for total cross section for, (E), 22:29624
reactions with nuclei at 28.8 GeV/c, effective mass spectrum of low-energy proton pairs from, (E), 24: 26372
reactions with nuclei at 3 GeV/c at small angles in emulsions, computer test programs for, 22:20690
reactions with nuclei at 3 GeV/c in emulsions, (E), 23: 32616
reactions with nuclei at 3 GeV/c in emulsions, absorption cross sections for, (E), 25:45656 (FRNC-TH-28)
reactions with nuclei at 3 GeV/c in emulsions, strong-absorption model for, 23:30767
reactions with nuclei at 30 to 2700 MeV, intranuclear cascade calculation of, 24:45627 (CONF-691101-, pp 42-62)
reactions with nuclei at 30 to 340 MeV, secondary particle spectra from, (E/T), 21:46815
reactions with nuclei at 400 to 660 MeV, mean number of secondary neutrons evaporated from, (E), 22:20127
reactions with nuclei at 450 MeV, meson (π) production in, (T), 22:35388
reactions with nuclei at 5.0 and 6.0 MeV, gamma spectra of, 21:10633
reactions with nuclei at 50 to 1000 GeV, review of multiparticle production in, (E), 25:5273
reactions with nuclei at 570 MeV, angular distributions of helions from, (E), 24:18361
reactions with nuclei at 6 to 10 GeV, yields of K, π, and anti p from, 23:27820 (ITEF-620)
reactions with nuclei at 6 to 25 GeV/c in emulsions, Monte Carlo calculations for double production of lithium-8 in, (E/T), 24:37624
reactions with nuclei at 6.2 and 22.5 GeV in emulsions, cascade and evaporation processes in, (E), 23:18797
reactions with nuclei at 600 MeV, classical absorptive-gas model for calculation of meson (π^+) production in, 25: 20031
reactions with nuclei at 600 MeV, scintillation counter study of differential cross sections for mesons (π^-) and (π^-) production in, (E), 23:51856 (CERN-69-24)
reactions with nuclei at 63 MeV, angular distributions, energy, and yield of neutrons produced by, 22:6652 (ORNL-4168, pp 183-230)
reactions with nuclei at 660 MeV, kinematics of cascade, (T), 22:22629
reactions with nuclei at 660 MeV, nuclear kinematics in cascade processes from, (T), 21:25508 (JINR-P2-3201)
reactions with nuclei at 730 MeV, Δ production and total cross sections for π^+ and π^- production in, (E), 25:53226 (LA-DC-12944)
reactions with nuclei at 80 TeV in emulsions, aleph baryon production in, (E), 25:9641
reactions with nuclei at 80 TeV in emulsions, production of aleph baryon in, (E), 24:35605 (SJC-P-70-3)
reactions with nuclei at 85 MeV, beryllium-7 production in, (E), 21:7744
reactions with nuclei at 9 GeV in emulsions, yield of slow π^- and π^+ from, (E), 22:39260
reactions with nuclei at 90 to 300 MeV, cross-section calculations using elastic scattering data, (T), 21:23565
reactions with nuclei at high energies in emulsions, frequency distribution of heavy prongs from, (E), 22: 7438
reactions with nuclei at high energies, cross sections for spallation, (E/T), 21:1140
reactions with nuclei at high energies, differential cross section ratio of π^- production in deuteron reactions with nuclei to π^- production in, (E), 25:47728 (JINR-P1-5819)
reactions with nuclei at high energies, Regge pole model for, 22:1450 (AD-648017)
reactions with nuclei at high energies, review of, (T), 25: 15148(T) (ORNL-tr-2399)
reactions with nuclei at high energy, correlation of spallation fragment and product properties in, (T), 23: 13316
reactions with nuclei at high energy, impact parameter multiple scattering theory for, (T), 23:11051 (MIT-2098-495)
reactions with nuclei below 150 MeV, photonuclear data index, Jan. 1965 to Jan. 1970 for, (E), 25:22961 (NBS-SPEC. PUBL-322)
reactions with nuclei below 28 GeV in emulsions, multiple production from, (E), 22:7439
reactions with nuclei below 425 MeV, cross sections for, (E), 21:4205 (ORNL-3884)
reactions with nuclei below 5 GeV, cascade—evaporation model for analysis of low-energy particles produced in, (T), 25:17515 (JINR-P2-5549)
reactions with nuclei below 70 GeV/c, atlas of particle-production-momentum spectra for, (T), 25:14733 (NP-18660)
reactions with nuclei in air, relation of number of produced mesons (π) with interaction energy for production of meson (μ) EAS above 1 TeV, (T), 23: 46659
reactions with nuclei in chromosphere, gamma emission in, (T), 23:16609
reactions with nuclei in emulsions, cross sections for elastic scattering of target protons in, (E), 25:33545
reactions with nuclei in GeV range, excitation cross sections for energy-level transitions from, (T), 22: 35412
reactions with nuclei in nuclear emulsion, hyperfragment production in, (E), 21:15487 (CONF-660221-, pp 128-31)
reactions with nuclei in solid-state lithium-drifted silicon, pulse-height shifts caused by, (E), 21:36390
reactions with nuclei of cosmic-ray composition, cross sections for, (T), 22:19810
reactions with nuclei up to several GeV, cascade calculations of double differential distributions of particles from, (T), 25:20018 (JINR-P2-5507)
reactions with nuclei up to several GeV, cascade calculations of double differential distributions of particles from, (T), 25:41254(T) (ORNL-tr-2477)
reactions with nuclei with A between 9 and 32, spallation cross sections for, 21:25443
reactions with nuclei with several open channels, isospin purity of isobaric analog resonances in, (T), 21:31858
reactions with nuclei, (n - p) radius difference from model of meson (π) production in, 23:23495
reactions with nuclei, α—nucleon cascades in, (T), 24: 8925(T) (ORNL-tr-1704)
reactions with nuclei, bibliography on, 21:33871 (CEA-Bib-82)
reactions with nuclei, calculations of energy loss in inelastic, 24:5905
reactions with nuclei, cross sections for π^+ production in, 25:53239
reactions with nuclei, cross sections for quark-pair production in, (T), 25:47901
reactions with nuclei, design study for large-angle scattering facility, 21:26292
reactions with nuclei, effects of intermediate resonance states in coherent production of N(1480) and N(1688) in, 25:41027
reactions with nuclei, isobaric analog resonances in, (T), 21:38414
reactions with nuclei, isobaric-spin conservation for proton emission probability in compound-nucleus, (T), 25:59830 (CU-1019-82)
reactions with nuclei, model of factorized residues for, (T), 23:1955
reactions with nuclei, optical-model potential for, (T), 21:15637
reactions with nuclei, production of short-lived isomers in, 23:45012
reactions with nuclei, review of diffractive processes in, (T), 25:17501
reactions with nuclei, tables of thresholds for, (E), 25: 20237 (UCRL-50400(Vol.9))
reactions with nuclei, with quasielastic scattering, (T), 21:34031(R) (ORO-2915-79)
reactions with organic and inorganic phosphors, energy losses in, 22:45290
reactions with organic molecules at 10 to 50 keV, double charge-exchange cross sections for, (E), 21:6976 (CEA-R-2952)
reactions with organic scintillators at 0.3 to 3 MeV, specific luminescence from, 21:826
reactions with oxygen and nitrogen at 30 keV to 40 MeV, electron capture cross sections for, 22:5075
reactions with oxygen at 0.135, 0.6, and 19 GeV, cross sections for production of beryllium, boron, and lithium isotopes by, (E), 23:25838
reactions with oxygen at 0.15 to 1.0 MeV, cross sections for formation of excited molecular ions in, (E), 22: 21898
reactions with oxygen at 100 keV, energy spectra of electrons from, (E), 22:26256
reactions with oxygen at 20 to 600 keV, emission, ionization, and charge-exchange cross sections from, (E), 21:20781
reactions with oxygen at 660 MeV, charged-particle spectra for, (E), 23:39947
reactions with oxygen in Al_2O_3 K-shell x-ray production cross sections from 20 to 100 keV, (E), 23:12560
reactions with oxygen in aluminum oxide films at 20 to 100 keV, cross sections for K-shell ionization and x-ray production in, (E), 23:30347
reactions with oxygen in aqueous solution and water, chemical behavior of carbon-11 recoil atoms from, 24: 46245 (NP-18376)

reactions with oxygen molecules at 100 eV to 4 keV, energy losses and energy-level transitions in, (E), 25:58753
reactions with oxygen molecules at 20 to 110 keV, energy-loss spectra and cross sections for inelastic processes in, (E), 25:14023
reactions with oxygen molecules at 3 to 50 keV, cross sections for O$^-$ production in, (E), 25:13999
reactions with oxygen, Born cross section for excitation of Schumann—Runge transition in, (T), 21:28984
reactions with oxygen-16 at 1 GeV, model for elastic, (E/T), 24:40411
reactions with oxygen-16 at 19, 135, and 550 GeV, production of beryllium, boron, and lithium isotopes in, (E), 22:20495
reactions with oxygen-16 at 20 to 40 MeV, excitation functions for, (E), 24:8832(R) (UCLA-10-P-18-13)
reactions with oxygen-16 at 27, 34, 41, and 45 MeV, total cross section for, (E), 22:26838
reactions with oxygen-contaminated surfaces, x radiation from, 21:43748(R) (N-67-22064)
reactions with paraffin phantoms, use of activation detectors for measuring absorbed doses and fluences from, 22:14865
reactions with partially ionized gas targets, charge exchange yields from, 21:46145
reactions with phosphorus-31 at 20 to 190 MeV, cross sections for phosphorus-30 production in, 21:36553 (AD-636647)
reactions with plasma of magnetosphere, Pc1 pulsations as Cherenkov radiation from, (T), 22:24130
reactions with platinum at 2.8 GeV, production of mesons (K_2^0) and γ radiation from, (E), 22:34856
reactions with platinum at 2.9 GeV, proton angular distributions and spectra from, (T), 21:46643(R) (ORNL-4134)
reactions with platinum at 3 GeV, neutron polarization from, (E), 24:40257
reactions with Plexiglas at 2.2 and 2.9 GeV, spatial distribution of products from, (E), 21:46392(R) (N-67-18240)
reactions with polyatomic gases in keV range, measurements of ionization by, 21:33122(R) (ORO-2911-8)
reactions with polycrystalline gold, sputtering, (E), 22:52500
reactions with positronium, generalized variational bounds and coupled-static approximation for, (T), 25:9216
reactions with potassium bromide single crystal, energy losses in, (E), 23:12986
reactions with potassium vapor at 2.5 to 22 keV, charge components and cross sections for charge exchange in, (E), 22:34283
reactions with potassium-41 at 1.8 to 2.2 MeV, resonances in, (E), 22:7680
reactions with praseodymium-141 and neodymium-150 at 5 to 11 MeV, optical-model analysis of, (E/T), 21:44659 (CEA-R-3091)
reactions with protactinium-231 at 44 and 63 MeV, spectra of alpha-emitting products from, (E), 24:48065 (ORNL-4581, pp 28-61)
reactions with rare gas atoms, classical calculation of ionization cross sections for, 24:39867
reactions with rare gases at 0.6 to 15.0 keV, polarization of Lyman-alpha radiation from charge-transfer, (E), 23:22886
reactions with rare gases at 4 MeV, pressure and impurity effects in ionization, 25:35888
reactions with rare gases at 4 MeV, vacuum-ultraviolet spectra from, (E), 24:46999
reactions with rare gases at 5 to 50 keV, coincidence measurements of cross sections for charge exchange in, 24:1284
reactions with rare gases, excitation in, 24:19744(R) (ORO-3650-3)
reactions with rare gases, polarization of Lyman alpha radiation from charge exchange, (E), 22:15344
reactions with rare gases, vuv emission spectra excited in, 25:33084
reactions with ribonuclease, measurement of inactivation cross sections for elastic, 22:45508(R) (PG-Report-826)
reactions with rubidium in cyclotron to produce strontium-85, 23:45329
reactions with samarium-144, production of pure promethium-143 by, 25:37437 (BNWL-CC-2664)
reactions with shielding at 660 MeV, backward neutron yields from, 23:3539(T) (ORNL-tr-1913)
reactions with shielding, secondary dose from, (E/T), 21:40060
reactions with silicate targets at 3 GeV, production of sodium-22 and helium-3 in, (E), 23:44029
reactions with silicon at 0 to 60 MeV, excitation functions for, (E), 22:9803 (ORNL-TM-2060)
reactions with silicon at 1 to 5 MeV, mechanism of channeling in, 21:21069
reactions with silicon at 1.0 to 200 MeV, stopping power and range tables for, 22:45284 (UCRL-17663(Rev.1))
reactions with silicon at 31.5 to 767.2 MeV, energy loss and straggling in, (E), 23:27328
reactions with silicon below 60 MeV, excitation functions for radioisotope production by, (E), 22:44665
reactions with silicon monocrystals, penetration in, 21:15216 (LYCEN-6654)
reactions with silicon rods at 50 to 187 MeV, Monte Carlo calculation of lateral leakage in, 24:47292 (N-70-20031)
reactions with silicon single crystals at 3 to 12 MeV, blocking effects in, (E), 22:44273
reactions with silicon surface barrier detectors, energy distributions in, (E/T), 22:22202 (NYO-2962-6, pp 55-62)
reactions with silicon thin films, energy loss in, (E), 21:13351 (UCRL-16898, pp 82-6)
reactions with silicon, aluminum production by, 21:29339 (NASA-TN-D-3989)
reactions with silicon, damage from 22-MeV, 21:33540
reactions with silicon, paramagnetic center production from, 22:9453
reactions with silicon-28 at 660 MeV, fluorine-18 differential energy distributions from, (E/T), 25:5663
reactions with silver and bromine at 2.7 GeV, cross sections and proton emission in, (E), 24:30832
reactions with silver and thorium at 660 MeV, angular distribution and differential energy spectra of lithium-8 produced in, (E/T), 22:5855
reactions with silver and thorium at 660 MeV, lithium-8 angular and energy distributions from, (E), 22:27216
reactions with silver at 0.6 to 29 GeV, search for fission tracks from, (E), 23:37267
reactions with silver at 3 and 29 GeV, distribution of radionuclides produced by, (E), 22:16021
reactions with silver thin films, backscattering current uields from keV, (E/T), 24:28072
reactions with single crystals at 3 to 11 MeV, channeling in, (E), 21:18834
reactions with single crystals in keV range, orientation dependence of backscattering and sputtering in, (E), 24:42512
reactions with single crystals, asymmetry of shadows from, (E/T), 23:5477
reactions with sodium iodide crystal, measurement of energy losses from inelastic, 24:5906
reactions with sodium iodide crystals at 10 MeV to 10 GeV, energy losses in, 22:45290
reactions with sodium-23, gamma spectra from, (E), 24:20339 (COO-1120-91)
reactions with soft tissue slabs at 2 GeV, delta-ray buildup in, (T), 23:10432 (ORNL-4316, pp 161-229)
reactions with solids at 20 to 43 MeV, cross sections for electron capture in, (E), 24:44989
reactions with solids at 6.3 MeV, displaced atom and energy loss distributions in, (T), 22:39180
reactions with space-vehicle shielding, dosages from, (T), 22:22198
reactions with spherical shell shield, γ dose rate from, (T), 21:29329
reactions with steel at 10 and 20 GeV/c, Monte Carlo calculations of nucleon—meson cascades in, 21:13618
reactions with steel at 19.2 GeV/c, production of meson—nucleon cascades in, (E), 21:11679 (ORNL-3854)
reactions with steel beam stop at 28-GeV, cascade distribution from, 25:50464
reactions with stilbene crystals at 10 MeV to 2 GeV, energy losses in, 22:45290
reactions with strontium and yttrium at 660 MeV, production of neutron-deficient isotopes from spallation, (E), 22:35284
reactions with strontium and yttrium at 660 MeV, rubidium isotope production by, (E), 22:35283
reactions with synchrotron shielding materials, shielding requirement determination from Monte Carlo nucleon—meson cascade calculations of, 22:32379
reactions with tantalum at 10.5 GeV, cross sections for production of cesium isotopes and rubidium isotopes by spallation, (E), 22:24879
reactions with tantalum-181 at 7.5 to 26 MeV, gamma and conversion electron spectra from, (E), 24:43382
reactions with targets in GeV range, recoils from, 24:27101 (BNL-50211)
reactions with targets, soft x-ray emission spectra produced by 100-keV, (E), 21:13404
reactions with thick carbon targets at 20 to 80 keV, cross sections for K x-ray production in, (E), 23:8442
reactions with thick targets of aluminum, carbon, cobalt, and copper at 450 MeV, nucleon yields from, (E/T), 23:23226 (ORNL-TM-2462)
reactions with thick targets of beryllium, lead, tin, and uranium, thermal neutron flux generation by, (T), 23:1767
reactions with thin films at 2 to 10 keV, equipment for measurement of energy loss in, 23:32156(R) (ORO-3027-15)
reactions with thin films, charge-exchange in, 21:11593 (UCRL-50002-66-1, pp 5-59)
reactions with thin films, thickness measurements by x-ray analysis of, 22:10616
reactions with thin films, x-ray emission from, 25:52601
reactions with thin layers of low Z materials, statistical fluctuations of energy deposited in, 23:2674
reactions with thin metal foils at 30 to 200 keV, neutralization in, (T), 21:33169
reactions with tin-116 at high energies, isobar model for analysis of meson (π) production in, 25:56530
reactions with tin-120 at 29 and 62 MeV, differential cross sections for production of protons, deuterons, tritons, helium-3, and alpha particles in, (E), 24:38213 (ORNL-4471)
reactions with tissue, radionuclide production from solar-flare, (T), 24:32883
reactions with tissue-like gases, 21:45802
reactions with tissues, galactic cosmic ray transport from Monte Carlo calculation of high-energy nucleon—meson showers from, (T), 25:22777 (ORNL-TM-3319)
reactions with tissues, radioisotope yield from, 21:36552 (AD-636646)
reactions with titanium shielding at 660 MeV, secondary nucleon flux and dose from, (E), 22:31912
reactions with tungsten at 24 GeV, production of element 112 in, (E), 25:25737
reactions with tungsten at 28.5 GeV, test for element-112 production by secondary reactions in, (E), 25:48083
reactions with tungsten to produce rhenium isotopes, 23:2360
reactions with tungsten, effect of nitrogen adsorption on electron emission from, 21:14952 (SC-R-67-1038)
reactions with tungsten, upper limit for W production from, (E), 22:15664 (NEVIS-164)
reactions with uranium at 0.159 to 18.2 GeV, yields and isomeric yield ratios of antimony isotopes from, (E), 21:44727
reactions with uranium at 0.6 and 18 GeV, scandium isotopes yields and recoil properties in, (E), 23:40057
reactions with uranium at 1, 2, and 3 GeV, cross sections for production of A = 127 to 139 isotopes by, (E), 23:1922
reactions with uranium at 22 to 29.5 GeV, effective mass and production cross sections for μ^+ - μ^- pairs from, (E), 25:33536 (NEVIS-185)
reactions with uranium at 22 to 29.5 GeV/c, cross sections for massive μ pair production from, (E), 25:7542
reactions with uranium at 24 GeV, sodium-27, -28, -29, -30, and -31 production from, (E), 24:1766
reactions with uranium at 3 GeV, α and γ spectra from spallation, (E), 22:7702(R) (PPAD-631-D)
reactions with uranium at 5 GeV, identification of fragments from, 23:50211 (UCRL-18667, pp 343-80)
reactions with uranium at 5 GeV, production of boron-14, boron-15, and lithium-11 by, (E), 21:29969(R) (UCRL-17299)
reactions with uranium at 5.5 GeV, energy spectra of fragments from, (E), 25:28426
reactions with uranium at 5.5 GeV, Z = 5 to 10 mass spectrum from, (E), 25:10860
reactions with uranium at 50 MeV, production of neptunium-235 and plutonium-239 by, 22:48871 (AERE-R-5790)
reactions with uranium at high energies, proposed experiment for spectrometer study of massive μ pairs in, 24:51931 (TID-25473(Vol.4), pp 219-26)
reactions with uranium isotopes at 5.3 GeV, production of boron-14, boron-15, and lithium-11 in, (E), 21:7793
reactions with uranium-235 at 20 MeV, equipment for measuring fission fragment angular distributions from, 21:287
reactions with uranium-238 at 0.45 to 11.5 GeV, cross sections and integral recoil properties for barium and strontium nuclides from, (E/T), 25:34096
reactions with uranium-238 at 0.45 to 11.5 GeV, energy dependence of recoil properties of products from, (E), 24:43313(R) (COO-1505-42)
reactions with uranium-238 at 13 GeV/c, energy and mass distributions of heavy fragments from, (E), 23:15430(R) (MNC-3783-2)
reactions with uranium-238 at 2.8 BeV, production of isomeric mercury isotopes and thallium isotopes by, (E), 21:1079(R) (PPAD-593-E)
reactions with uranium-238 at 5 to 13 GeV/c, angular distributions of heavy fragments from, (E), 23:15430(R) (MNC-3783-2)
reactions with vanadium, production of carrier-free calcium-47 by, 24:44030
reactions with various metals to produce manganese-52, 23:38008
reactions with water vapor at 1 to 50 keV, cross sections for charge exchange and electron loss in, (E), 24:19764
reactions with water vapor at 1 to 60 keV, total cross sections for charge exchange and electron loss in, (E), 24:15147 (NP-18130)
reactions with water vapor at 2 to 60 keV, total cross sections for charge exchange and electron loss in, (E), 24:51431
reactions with water, cross sections for elastic and charge-rearranging, 22:36745
reactions with xenon at 0.3 to 2.0 MeV, angular and energy distributions of electrons from, (E), 25:9191 (BNWL-SA-3631)
reactions with xenon at 5 to 50 keV, cross sections for charge-change processes in, (E), 22:43884
reactions with yttrium-89 at 62 MeV, differential cross sections for proton, deuteron, triton, helium-3, and alpha production in, (E), 24:6847 (ORNL-4450)
reactions with Z = 12 to 92 nuclei at 400 MeV, sodium-22 and -24 production cross sections for, (E), 22:9816
reactions with Z = 26 to 30 nuclei at 17 MeV, cross sections for, (E), 21:7688(R) (USC-136-114)
reactions with Z = 3 to 92 nuclei using thick targets, neutron yields from, (E), 25:31209
reactions with Z = 4 through 92 nuclei above 50 MeV, energy dependence of cross sections for, (E), 23:42854(T) (ORNL-tr-2148)
reactions with zirconium-90 at high energies, isobar model for analysis of meson (π) production in, 25:56530
reactions with zirconium-96, threshold anomaly in, (E), 23:19253(R) (ORO-2972-80)
reactions with, lithium-6 and lithium-7 at 30.2 MeV, angular distributions and spectra from, (E/T), 21:7688(R) (USC-136-114)
reactions wth atoms having Z = 72 to 92 at 60 to 400 keV, cross sections for ionization and excitation of M-shell x rays in, (E), 25:7142
reactions(p,n) with calcium-48 at 1.9 to 2 MeV, excitation functions for, (E), 24:43291
recoil in $\pi^- + p \rightarrow \pi^- + \pi^0 + p$ interactions at 2.77 GeV/c in hydrogen bubble chamber, low-momentum transfer to, (E), 23:46609 (CEA-R-3543)
recoil quality factors for, measured by Bragg-Gray detectors and plastic phosphors, 21:20189
recoils in N + N interactions above 1.0 TeV, transverse momentum and four-momentum transfer of, (T), 21:4057 (INR-736/VI/PH)
recovery of geomagnetically trapped, following magnetic storms, (T), 24:5049 (N-69-34540)
relative biological effectiveness in animal tissues in relation to LET, 23:8059
relaxation in NMR of heterogeneous glass sphere—water system, 24:45363
relaxation time in dysprosium-doped lanthanum magnesium nitrates, measurement of, 23:15328
relaxation times in aqueous solutions of lithium chloride, effects of lithium-6 and lithium-7 on, 22:4089
scattering amplitudes for emulsion nuclei at 27 GeV/c, elastic, (T), 21:25595
scattering and polarization by nuclei at 30 MeV, diffraction-model calculations of, (T), 21:46795

scattering and polarization by nuclei at 40 MeV, optical-model parameters for elastic, 21:33872(R) (ORNL-4122)
scattering at 160 MeV, neutron and proton spectra from, 21:44585
scattering at 80 and 150 MeV, differential cross sections and polarization in, (E), 21:21426
scattering at high energies, optical-model parameters calculated from various phase shifts, (T), 25:50826
scattering at isobaric analogue resonance of ground state of lead-208, models for, 25:18034
scattering at isobaric analogue resonance of ground state of zirconium-91, models for elastic, 25:18034
scattering at small angles, method for measuring inelastic, 21:38377(R) (PUC-937-260)
scattering by 1p-shell nuclei at 10 to 50 MeV, optical-model analysis of elastic, (E/T), 24:6844
scattering by 2s-1d-shell nuclei at 17.5 MeV, differential cross sections for, (E), 21:40411
scattering by 2s1d-shell nuclei at 17.5 MeV, inelastic, (E), 21:2646
scattering by A = 116 through 124 even-A tin isotopes, differential cross sections and polarization for elastic, (E), 23:15440
scattering by A = 12 to 206 nuclei at 21 MeV, polarization angular distributions in elastic, (E), 21:21453
scattering by A = 12 to 208 nuclei at 20 to 61.4 MeV, optical-model analysis with real Saxon—Woods derivative term of elastic, (T), 25:43967
scattering by A = 12 to 40 nuclei at 20.3 MeV using polarized beams, asymmetries and cross sections for elastic and inelastic, (E), 24:24515
scattering by A = 148 through 198 nuclei at 16 MeV, differential cross sections for elastic and inelastic, (E), 25:43901
scattering by A = 23 to 35 nuclei at 6 to 17.5 MeV, core-excitation analysis of differential and integrated cross sections from elastic and inelastic, (T), 25:28261
scattering by A = 24 to 92 nuclei at 20 MeV using polarized protons, asymmetry in inelastic, (E), 22:27010
scattering by A = 32 to 120 nuclei at 14.5 and 17.8 MeV, correlation of differential cross sections and polarizations for elastic, (E/T), 22:24900
scattering by A > 40 nuclei at E < 50 MeV, optical model parameters for, 23:52168 (COO-1265-59)
scattering by A = 45 to 76 nuclei at 11 MeV, optical-model analysis of elastic, (T), 23:7359
scattering by A = 46 through 56 nuclei at 2.5 to 3 MeV, angular distributions and excitation functions for, (E), 23:13246
scattering by A = 48 to 64 nuclei at 18.6 MeV using polarized beams, asymmetries for elastic and inelastic, (E), 23:42870 (CEA-R-3458)
scattering by A = 48 to 64 nuclei at 18.6 MeV, polarization and cross-section calculations using optical model, (E/T), 21:13847
scattering by A = 48 to 76 nuclei at 30 and 50 MeV, analysis for real part of optical potential for, (T), 24:43569
scattering by A = 50 to 66 nuclei at 6.9 MeV, distorted-wave analysis of differential and integrated cross sections for inelastic, (E), 25:56727
scattering by A = 54 to 181 nuclei at 9.8 MeV, optical-model analysis of elastic, (E/T), 25:34033
scattering by A = 58 to 65 nuclei at 6 MeV, DWBA analysis of elastic and inelastic, (E/T), 24:35852
scattering by A = 58 to 68 nuclei at 12 to 50 MeV, optical model parameters for, (E/T), 23:25972
scattering by A = 88 to 146 nuclei using polarized beams, isobaric analog resonances in elastic, (E), 25:28239
scattering by aligned holmium-165 at 5 to 10 MeV, deformation parameter and spectra from elastic, (E), 25:59788
scattering by aluminum and carbon at 950 MeV, polarization from elastic, (E), 21:42257
scattering by aluminum at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by aluminum at 490 MeV, polarization analysing power of, (E), 24:29576
scattering by aluminum targets, polarization in, (E), 21:21416
scattering by aluminum, brass, and tantalum, slit scattering effects in, 24:2487
scattering by aluminum, carbon, copper, and lead at 1 GeV/c, multiwire proportional counter study of differential and total cross sections for diffraction, (E), 24:28477 (COO-1195-182)
scattering by aluminum, carbon, nickel, and gold at 10 to 1000 MeV, angular distributions for multiple, 21:21463
scattering by aluminum, gold, and silver at 10 to 140 MeV, mean multiple scattering correction to energy loss for, 22:29804
scattering by aluminum-27 and copper-63 at 6.7 and 9.5 MeV, optical-model calculation of Wolfenstein parameters for, (T), 24:35850
scattering by aluminum-27 and magnesium isotopes at 185 MeV, inelastic, (E), 21:4261
scattering by aluminum-27 and silicon-28 at 55 MeV, angular distributions for inelastic, (E), 22:27016
scattering by aluminum-27 and sodium-23, γ yields for inelastic, (E), 22:11948(R) (NP-17216)
scattering by aluminum-27 and yttrium-89 at 10 and 12 MeV, proton spectra from inelastic, (E), 24:15826
scattering by aluminum-27 and yttrium-89 at 12 MeV, proton spectra from inelastic, (E), 23:7261
scattering by aluminum-27 and yttrium-89 at 61 MeV, differential cross sections for inelastic, (E), 24:3953(R) (ORNL-4433)
scattering by aluminum-27 at 1.3 to 1.5 MeV, differential cross section for elastic, (E), 22:11948(R) (NP-17216)
scattering by aluminum-27 at 18 MeV using polarized beam, depolarization parameter for elastic, (E), 25:5506 (CEA-N-1232, pp 81-159)
scattering by aluminum-27 at 18.0 MeV and 43° of polarized, depolarization parameter from elastic, (E), 25:14889 (CEA-CONF-1650)
scattering by aluminum-27 at 22.2 to 46 MeV, differential cross sections and optical model parameters for elastic, (E/T), 25:45988
scattering by aluminum-27 at 3.5 to 5.5 MeV, energy levels at 1.65 and 1.83 MeV from inelastic, (E), 21:19210
scattering by aluminum-27 at 4.0 to 5.5 MeV, calculations using fluctuation theory, (T), 21:7722(R) (AEET-254)
scattering by aluminum-27 at 4.155 and 5.00 MeV, polarized gamma rays from, (E), 21:4232(R) (AD-628872)
scattering by aluminum-27 at 4.3 to 5.8 MeV, excitation functions and γ-γ coincidence spectra for inelastic, (E), 22:53137
scattering by aluminum-27 at 4.5 and 6.0 MeV, γ Doppler-shift attenuation in inelastic, (E), 22:20510
scattering by aluminum-27 at 5.8 and 7.0 MeV, γ and proton spectra from inelastic, (E), 22:37314 (ANU-P-408)
scattering by aluminum-27 at 5.8 and 7.0 MeV, γ spectra from inelastic, (E), 22:44676
scattering by aluminum-27 at 5.9, 6.0, and 6.1 MeV, proton angular distributions and spectra from inelastic, (E), 21:44617
scattering by aluminum-27 at 55 MeV, angular and energy distributions for elastic and inelastic, (E), 22:27015
scattering by aluminum-27 at 55 MeV, energy levels from elastic and inelastic, (E), 21:42613(R) (NP-16992)
scattering by aluminum-27 at 6 MeV, angular distributions for elastic and inelastic, (E), 22:39615
scattering by aluminum-27 at 6.2 to 6.7 MeV, resonances in excitation functions for elastic and inelastic, (E), 22:13983
scattering by aluminum-27 at 6.28 to 6.63 MeV, inelastic, (E), 21:2685
scattering by aluminum-27 at 6.4 MeV, fluctuation analysis of excitation function for inelastic, (E/T), 22:11923
scattering by aluminum-27 at 61.4 MeV, differential cross sections for elastic, (E), 21:27559
scattering by aluminum-27, beryllium-9, and boron-10, depolarization parameters for elastic, (E), 25:17826
scattering by aluminum-27, beryllium-9, and boron-10 using polarized beam, depolarization parameters for elastic, (E), 25:53644
scattering by aluminum-27, copper, gold-197, silicon, and silver at 28 MeV, diffuse-surface optical-model analysis of elastic, (E/T), 23:19235
scattering by aluminum-27, copper, magnesium, and zinc at low energies, polarization angular distributions for elastic, (E), 24:18377
scattering by aluminum-27, copper, magnesium-24, and zinc at 6.6 and 7.4 MeV, polarization angular distributions in elastic, (E), 21:29940
scattering by aluminum-27, elastic and inelastic, (E), 21:7722(R) (AEET-254)
scattering by aluminum-27, fluorine-19, magnesium-25, phosphorus-31, and sodium-23 at 17.5 MeV, inelastic, (E), 22:18140
scattering by aluminum-27, fluorine-19, magnesium-24, magnesium-25, magnesium-26, oxygen-16, phosphorus-32, silicon-28, and sulfur-32 at 17.5 MeV, inelastic, (E), 22:3609 (PUC-937-164)
scattering by aluminum-27, γ spectra from inelastic, (E), 21:40473(R) (PR-P-74)
scattering by aluminum-27, lead-208, nickel-58, and tin-116 at 61 MeV, optical-model analysis of elastic, (E/T), 23:32893(R) (ORNL-4404)
scattering by aluminum-27, magnesium-24, and silicon-28 at 55 MeV, angular distributions for inelastic, (E), 23:10961(R) (NP-17704)
scattering by aluminum-27, magnesium-24, magnesium-25, magnesium-26, and silicon-28 at 20 MeV using polarized beams, cross sections and polarization for elastic and inelastic, (E), 23:1858
scattering by aluminum-27, nickel-62, phosphorus-31, and sodium-238 at 30 to 160° near 8 MeV, optical-model and Hauser—Feshbach analysis of angular distributions from elastic and inelastic, (E/T), 24:52472 (NP-18444)
scattering by analog and compound energy levels of nuclei, amplitudes for resonant elastic, (T), 25:15146 (NYO-1082-29)
scattering by argon and krypton at 2 to 5 keV, differential cross sections for, (E), 24:37219(R) (ORO-2911-12)
scattering by argon and krypton in keV range, reduced differential cross sections for, (E), 25:49738(R) (ORO-2911-13)
scattering by argon at 10 and 25 eV, secondary rainbows and interference in elastic, (E), 25:27458
scattering by argon at 12.7 to 44.1 eV, relative differential cross sections for elastic, (E), 23:32161
scattering by argon at 150 eV to 2 keV, differential cross sections for elastic, (E), 24:35202
scattering by argon, differential cross sections for, (E), 23:34277(R) (ORO-2911-11)
scattering by argon, helium, and neon at small angles, relation between reduced scattering angle and impact parameter for, (T), 22:34280
scattering by argon-36 and argon-40 at 25 MeV, collective-model DWBA analysis of inelastic, (E), 23:10936(R) (COO-535-591)
scattering by argon-36 and argon-40 at 25 MeV, DWBA analysis of angular distributions for elastic and inelastic, (E), 22:48487
scattering by argon-36 and argon-40 at 25 MeV, optical-model analysis of angular distributions for elastic, (E), 23:10936(R) (COO-535-591)
scattering by argon-36 at 2.1 to 5.3 MeV, angular distributions for, (E), 25:3641
scattering by argon-36 at 8.980 MeV, optical-model analysis of elastic, (E), 25:43868
scattering by argon-36, potassium-37 energy levels from, (E), 21:44636
scattering by argon-36, potassium-37 energy-level parameters from, (E), 21:33900 (AD-654156)
scattering by argon-40 and titanium-48, mechanism of, (E/T), 22:20550
scattering by argon-40 at 1.1 MeV, resonances in elastic, (E), 22:7677
scattering by argon-40 at 1.6 to 2.6 MeV with isobaric analog excitation, cross section for elastic, (E), 23:39979
scattering by argon-40 at 1.8 to 4.4 MeV, differential cross sections for inelastic, (E), 24:20363
scattering by argon-40 at 1.81 to 4.35 MeV, excitation functions for elastic and inelastic, (E), 22:44660
scattering by argon-40 at 1.87 MeV, potassium-41 energy-level spins from polarization measurements, (E), 21:23453
scattering by argon-40 at 3.5 to 6.0 MeV, excitation functions for, (E), 21:17337
scattering by argon-40 at 3.5 to 6.0 MeV, potassium-41 energy levels from inelastic, (E), 21:44648
scattering by argon-40 at 30 and 50 MeV, optical model analysis of cross sections and polarization for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by argon-40 at 4.7 to 5.8 MeV, angular correlations, excitation functions, and spectra from inelastic, (E), 25:43872
scattering by argon-40 at 960 MeV, cross sections for, (E), 21:11882
scattering by argon-40, calcium-48, and neon-22, fine-structure analysis of isobaric analog resonances in elastic, (T), 25:10073
scattering by argon-40, isobaric analog resonances in, (T), 21:12100
scattering by argon-40, nickel-58, nitrogen-14, oxygen-16, and tin-116 at 21 MeV, optical model analysis of elastic, (E/T), 23:34721 (N-69-12840)
scattering by argon-40, nickel-58, nitrogen-14, oxygen-16, and tin-116 at 21 MeV, optical model analysis of elastic, (E/T), 23:37126
scattering by argon-40, potassium-41 analog resonances in elastic, (T), 21:21491
scattering by atomic and molecular gases, analytic cross sections for inelastic, (E/T), 25:11703
scattering by atomic hydrogen at 0.130 to 150 keV, resonant electron capture from, (E), 22:2815
scattering by atomic hydrogen, coupled-channel calculations for, 22:29256
scattering by barium isotopes and cerium isotopes using polarized beams, isobaric analog resonances in, (E), 22:42069
scattering by barium isotopes at 7 to 12 MeV, isobaric analog resonances from elastic, (E), 24:52625
scattering by barium isotopes at 9.0 to 11.4 MeV, differential cross sections for, 21:25522
scattering by barium nitrates, magnesium lanthanum nitrates, magnesium oxides, and polyethylene, elastic and quasielastic, 22:37077
scattering by barium-130, -132, -134, -136, and -138 at 7 to 12 MeV, isobaric analog resonances in, (E), 22:5809(R) (ANL-7354)
scattering by barium-130, -132, -134, -136, and -138 at 7 to 12 MeV with isobaric analog excitation, comparison of spectroscopic factors with (d,p) reactions, 25:28372
scattering by barium-138 and cerium-140 at 9 and 12 MeV, total angular momentum of isobaric analog states from polarization from elastic, (E), 21:31782
scattering by barium-138 and cerium-140 at 9 to 12 MeV, polarization measurements near isobaric analog resonances in elastic, (E), 22:42039
scattering by barium-138 at 9.5 to 11.5 MeV, excitation function for elastic, (E), 21:25520
scattering by barium-138 at 9.5 to 12.5 MeV, differential cross sections for elastic and inelastic, (E), 24:20414
scattering by barium-138 at 9.7 to 11.4 MeV, isobaric analog resonances in inelastic, (E), 21:25529
scattering by barium-138, cerium-140, and neodymium-140 with isobaric analog resonance excitation, elastic, (T), 22:7690 (JINR-E2-3551)
scattering by barium-138, cerium-140, neodymium-142, tellurium-130, and xenon-136 at 9 and 10 MeV, fits to angular distributions from resonance, (T), 25:3685
scattering by barium-138, lead-208, strontium-88, and tin-120 with excitation of isobaric analog resonances, analysis of elastic cross sections using Weidenmuller—Mahaux theory, (E/T), 23:11025
scattering by barium-138, lead-208, tin-120, and tin-124 at 7.5 to 18 MeV with isobaric analog excitation, shell-model analysis of elastic, (E/T), 25:38994 (ORO-2972-189)
scattering by barium-138, lead-208, tin-120, and tin-124 with isobaric analog excitation, shell-model analysis of elastic, (E/T), 25:56769
scattering by barium-138, spectra for inelastic, (E), 21:40439
scattering by beryllium and carbon at 45.5 MeV, (E), 21:1026(R) (AD-628932)
scattering by beryllium-10 at 12 to 16 MeV, angular distributions for elastic and inelastic, (E), 25:5589
scattering by beryllium-9 and carbon at 49.4 MeV, angular distributions of cross sections and polarizations in elastic and inelastic, (E), 25:5585
scattering by beryllium-9 and carbon-12 at 45.5 MeV, differential cross sections for, (E), 21:19198
scattering by beryllium-9 and carbon-12 at 46 MeV, cross sections and polarizations for elastic and inelastic, (E/T), 21:38255
scattering by beryllium-9 at 0.6 to 1.5 MeV, elastic, (E), 24:49704 (NP-18438)
scattering by beryllium-9 at 0.8 to 1.5 MeV, analysis of mechanism for elastic, (T), 24:38097 (CEA-CONF-1499)
scattering by beryllium-9 at 0.8 to 1.8 MeV, differential cross sections for elastic, 24:15806

scattering by beryllium-9 at 1 to 3 MeV, polarization in elastic, (E), 24:10937
scattering by beryllium-9 at 1.97 to 2.18 MeV, angular distributions for elastic, (E), 25:17709 (JINR-P15-5519)
scattering by beryllium-9 at 16 to 29 MeV, angular distributions for elastic and inelastic, (E/T), 22:29939
scattering by beryllium-9 at 17 to 29 MeV, angular distributions for, (E/T), 21:7688(R) (USC-136-114)
scattering by beryllium-9 at 2 to 2.1 MeV, proton spectra from, (E), 24:26593
scattering by beryllium-9 at 2.0 to 2.1 MeV, resonances in elastic, (E), 22:39582
scattering by beryllium-9 at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by beryllium-9 at 21.4 MeV and 58° of polarized, depolarization parameter from elastic, (E), 25:14889 (CEA-CONF-1650)
scattering by beryllium-9 at 3 to 12 MeV, polarization in elastic, (E), 24:49772
scattering by beryllium-9 at 3 to 20 MeV, DWBA calculation of rectangle diagram amplitude in inelastic, (T), 24:22093
scattering by beryllium-9 at 3.0 to 12.0 MeV, optical-model analysis of angular distributions of analyzing power from elastic, (E/T), 25:5584
scattering by beryllium-9 at 30 MeV, differential cross sections for elastic and inelastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by beryllium-9 at 46 MeV, angular distributions for elastic and inelastic, (E), 21:13809
scattering by beryllium-9 at 5 to 10 MeV, analysis using quadrangle graphs, (T), 23:19373
scattering by beryllium-9 at 5.0 to 12.0 MeV, angular distributions of analyzing power from inelastic, (E/T), 25:5584
scattering by beryllium-9 at 50 MeV, angular distributions and polarization for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by beryllium-9 at 6 MeV, proton spectra from inelastic, (E), 24:38094 (ANU-P-486)
scattering by beryllium-9 at 6 to 30 MeV, optical model analysis of elastic, (T), 25:43804
scattering by beryllium-9 at 7 to 10 MeV, polarization in inelastic, (E), 23:19253(R) (ORO-2972-80)
scattering by beryllium-9 at 7 to 11 MeV, polarizations and cross sections for elastic and inelastic, (E), 22:18155
scattering by beryllium-9 at 7.0 to 11.0 MeV, angular distributions and polarization in elastic and inelastic, (E), 21:13796(R) (ORO-2972-25)
scattering by beryllium-9 at 7.0, 8.5, and 10.0 MeV, optical-model analysis of elastic, (E/T), 22:11949(R) (ORO-2972-47)
scattering by beryllium-9 near 2 MeV, differential cross sections for elastic, (E), 25:1717
scattering by beryllium-9 near 2.1 MeV, cross section for elastic, (E), 24:22088
scattering by beryllium-9 with subsequent breakup, analysis of n-^{9}Be final-state interaction using effective-range approximation, (T), 25:59735
scattering by beryllium-9, angular distributions for elastic and inelastic, (E), 21:7688(R) (USC-136-114)
scattering by beryllium-9, beryllium-11, and boron-10 at 10 to 20 MeV, optical-model analysis of elastic, (T), 23:17103(R) (ANL-7481)
scattering by beryllium-9, boron-10, and boron-11 at 5 to 19 MeV, optical-model analysis of elastic, (T), 22:48507(R) (ANL-7436)
scattering by beryllium-9, boron-10, calcium-40, nickel-58, silicon-28, and strontium-88, angular distributions of polarization and cross sections for elastic, (T), 23:19253(R) (ORO-2972-80)
scattering by beryllium-9, boron-10, lithium-6, and lithium-7 at 34 MeV, optical-model analysis of angular distributions for, (E), 22:35236
scattering by beryllium-9, calcium, lead-208, nickel-58, and nickel-60 at 26.3 and 30 MeV, elastic, (E), 21:5492
scattering by beryllium-9, carbon-12, and lithium-7 at 100 MeV, angular distributions for, (E), 21:5498
scattering by beryllium-9, mechanism in elastic, 25:17765
scattering by beryllium-9, polarization in elastic, (E), 24:3855
scattering by bismuth-209 and iron-54 at 61 MeV, differential cross sections for, (E), 21:46643(R) (ORNL-4134)
scattering by bismuth-209 and lead-208 at 23 to 30 MeV, cross sections for elastic, (E), 24:18367(R) (COO-535-603)
scattering by bismuth-209 and lead-208 at 26 MeV, optical-model analysis of elastic, (E), 23:10936(R) (COO-535-591)
scattering by bismuth-209 and lead-208, optical-model calculations for elastic, (E/T), 21:11991(R) (UCOL-535-561)
scattering by bismuth-209 at 14 to 22 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 24:43447
scattering by bismuth-209 at 24.5 MeV, differential cross sections and energy spectra for decuplet excitation from inelastic, (E), 25:5745
scattering by bismuth-209 at 24.55 MeV, DWBA analysis of angular distributions from elastic and inelastic, (E), 25:41229 (NP-18883)
scattering by bismuth-209 at 30.5 MeV, differential cross sections for elastic, (E), 23:28246(R) (USC-136-146)
scattering by bismuth-209 at 31 MeV, angular distribution for elastic, (E), 23:10928 (UCLA-10-P-18-10)
scattering by bismuth-209 at 39.5 MeV, core polarization effect on excitation of the 1.609-MeV state in inelastic, (E), 24:22138 (COO-1051-40)
scattering by bismuth-209 at 39.5 MeV, core polarization effects in inelastic, (E), 24:35875
scattering by bismuth-209 at 61.7 MeV, angular distributions for inelastic, (E), 25:39032
scattering by bismuth-209, calcium-40, carbon-12, chromium-52, copper-63, and nickel-60 at 6.8 MeV, calculation using Wigner method for collision times of elastic, (T), 23:19183
scattering by bismuth-209, carbon-12, and iron-54 at 60 MeV, differential cross sections for elastic and inelastic, (E), 23:10945
scattering by bismuth-209, carbon-12, and iron-54 at 60 MeV, differential cross sections for elastic and inelastic, (E), 22:41952 (ORNL-4274)
scattering by bismuth-209, carbon-12, and iron-54 at 62 MeV, optical-model analysis of angular distributions for elastic and inelastic, (E), 23:7281(R) (ORNL-4280)
scattering by bismuth-209, lead-204, -206, and -207 at 14 to 19 MeV with isobaric analog excitation, differential cross sections for, (E), 24:43446
scattering by bismuth-209, lead-206, lead-207, and lead-208 at 21 MeV, inelastic, (E), 21:5543
scattering by boron-10 and boron-11 at 30 MeV, polarization for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by boron-10 at 19.8 MeV and 60° of polarized, depolarization parameter from elastic, (E), 25:14889 (CEA-CONF-1650)
scattering by boron-10 at 3 to 10.5 MeV, angular distributions and excitation functions for elastic, (E), 24:24517
scattering by boron-10 at 3.5 to 5 MeV, excitation functions for inelastic, (E), 25:56679
scattering by boron-10 at 30.3 MeV, proton spectra and differential cross sections for inelastic, 25:7808 (UCRL-19530, pp 53-106)
scattering by boron-10 at 4 to 12 MeV, isobaric spin effects in inelastic, (E), 21:25434
scattering by boron-10 at 49.5 MeV, angular distributions for elastic, (E), 24:13285
scattering by boron-10 at 5 to 12 MeV, angular distributions and integrated cross sections for inelastic, (E), 22:48507(R) (ANL-7436)
scattering by boron-10 at 5 to 16 MeV, angular distributions for elastic and inelastic, (E), 23:39962
scattering by boron-10 at 5 to 16 MeV, angular distributions for inelastic, (E), 24:15807
scattering by boron-10 at 5 to 16 MeV, angular distributions and integrated cross sections for, (E), 23:17103(R) (ANL-7481)
scattering by boron-10 at 5.3 to 17.9 MeV, differential cross sections and optical model analysis for, (E/T), 24:6844
scattering by boron-10 at 7.8 MeV, proton-γ angular correlations in inelastic, (E), 22:32504
scattering by boron-10, aluminum-27, cobalt-59, indium, and bismuth-209 at 50 MeV, Wolfenstein D parameter from, (E), 24:30702
scattering by boron-11 and lead-208 at 155 MeV, DWBA analysis of polarization angular distributions from inelastic, (T), 25:14892 (RLO-1388-600)
scattering by boron-11 and oxygen-16 at 100 MeV, proton spectra from elastic and inelastic, (E), 24:26589
scattering by boron-11 at 1.1 to 3 MeV, excitation function for elastic, (E), 25:17763
scattering by boron-11 at 12 to 21 MeV, optical-model analysis of elastic, (T), 21:23534(R) (ANL-7246)
scattering by boron-11 at 3.5 to 10.5 MeV using polarized beam, differential cross sections and analyzing power for elastic and inelastic, (E), 25:53648
scattering by boron-11 at 3.5 to 10.5 MeV, proton spectra and excitation functions for elastic and inelastic, (E), 24:33111 (CONF-680461-10)
scattering by boron-11 at 30.3 MeV using polarized beam, coupled-channel analysis of inelastic, (T), 25:22982
scattering by boron-11 at 30.3 MeV, DWBA analysis of asymmetry angular distributions from inelastic, (T), 25:14892 (RLO-1388-600)
scattering by boron-11 at 30.3 MeV, model analysis of polarization in inelastic, (E/T), 24:43142
scattering by boron-11 at 30.3 MeV, polarizations and cross sections in elastic and inelastic, (E), 23:42868
scattering by boron-11 at 5.9 MeV, proton—gamma angular correlations from inelastic, (E), 24:38134
scattering by boron-11, carbon-12, and oxygen-16 at 185 MeV, angular distributions for inelastic, (E), 24:22083
scattering by boron-11, lithium-6, lithium-7, and nitrogen-14 at 155 MeV, cross-section and polarization angular distributions for elastic and inelastic, (E/T), 22:44606
scattering by bromine-81 at 1.5 to 2.8 MeV with Coulomb excitation, γ spectra for inelastic, (E), 24:1785
scattering by cadmium isotopes at 5 to 8 MeV, angular distributions for elastic and inelastic, (E), 24:30826
scattering by cadmium-106 at 5.50 to 6.55 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:32612
scattering by cadmium-106 at 5.6 to 5.8 MeV, Robson enhancement in inelastic, (E), 24:43456
scattering by cadmium-106, -108, -110, and -112 at 5.7 to 7.5 MeV with isobaric analog excitation, excitation functions and p-γ angular correlations for inelastic, (E), 24:30851
scattering by cadmium-108, decay amplitudes of $3/2^+$ analog resonance from angular correlation measurements in inelastic, (E), 23:40059
scattering by cadmium-110 and -114 at 55 MeV, differential cross sections for, (E), 21:42613(R) (NP-16992)
scattering by cadmium-110 and cadmium-114 at 55 MeV, angular distributions for elastic and inelastic, (E), 22:27201
scattering by cadmium-110, -112, and -114 at 6 to 11 MeV, excitation functions for elastic and inelastic, (E), 25:5752
scattering by cadmium-110, -112, and -114 at 6 to 11 MeV with isobaric analog excitation, excitation functions for elastic, (E), 25:28370
scattering by cadmium-110, -112, and -114 at 6 to 11 MeV, excitation functions for isobaric analog resonances in elastic, (E), 24:38246
scattering by cadmium-110, cadmium-114, and cadmium-116 at 55 MeV, angular distributions for inelastic, (E), 23:15469
scattering by cadmium-110, cadmium-114, cadmium-116, and nickel-60 at 55 MeV, DWBA analysis of angular distributions for inelastic, (E), 22:48519 (JAERI-1158, pp 56-63)
scattering by cadmium-111 and cadmium-112 at 14.5 MeV, optical-model and DWBA analysis of elastic and inelastic, (E/T), 21:33963(R) (NP-16498)
scattering by cadmium-111, cadmium-112, and cadmium-113 at 14 MeV, differential cross sections for, (E), 21:27604
scattering by cadmium-111, cadmium-112, and cadmium-113 at 14.2 to 14.7 MeV, differential cross sections for elastic and inelastic, (E), 21:21517 (INSJ-103)
scattering by cadmium-112 and cadmium-114 at 13 MeV, differential cross sections for elastic and inelastic, (E), 22:53181
scattering by cadmium-112 at 13 MeV with Coulomb excitation, multiple excitation correction for inelastic, (T), 23:5871
scattering by cadmium-112, tin-116, and tin-120 at 15 MeV, DWBA analysis of angular distributions for inelastic, (E), 22:48519 (JAERI-1158, pp 56-63)
scattering by cadmium-114 and zinc-64 and 50 MeV, optical-model analysis of elastic and inelastic, (T), 21:38332
scattering by cadmium-114 and zinc-64 at 50 MeV, inelastic, (E), 21:9982
scattering by cadmium-114 at 55 MeV, DWBA analysis of angular distributions for inelastic, (E), 22:27131
scattering by cadmium-114 at 7 to 10 MeV, isobaric analog resonances in elastic and inelastic, (E), 21:46762
scattering by cadmium-114, zinc-64, zinc-66, zinc-68, and zinc-70 at 50 MeV, collective-model generalization of optical model for inelastic, (T), 22:48497
scattering by cadmium-114, zinc-68, and zirconium-90 at 18.6 MeV, angular distributions for elastic, (E), 25:9966(R) (COO-1265-94)
scattering by cadmium-116 and palladium-110 at 12 and 13 MeV, DWBA and coupled-channels analysis of angular distributions from inelastic, (E/T), 25:39005
scattering by calcium isotopes and helium-4 at high energy, review on elastic, (E), 22:50675
scattering by calcium-40 and -48 at 18 MeV, optical-model parameters for, (E), 21:38377(R) (PUC-937-260)
scattering by calcium-40 and -48 at 25 to 40 MeV, optical-model determination of charge radii from elastic, (E), 25:17778
scattering by calcium-40 and calcium-48 at 12 MeV, angular distributions for inelastic, (E), 23:21315
scattering by calcium-40 and carbon-12, finite-nucleus G-matrix formalism for analysis of inelastic, (T), 23:23794
scattering by calcium-40 and lead-208, differential cross sections and polarization for inelastic, (T), 22:32697
scattering by calcium-40 and nickel-60 at 13 MeV, shell model analysis of inelastic, (E/T), 23:30968
scattering by calcium-40 at 10 to 11 MeV, p-γ angular correlations from inelastic, (E), 25:17794
scattering by calcium-40 at 10 to 180 MeV, optical-model analysis of cross-section and polarization angular distributions for elastic, (T), 25:34015
scattering by calcium-40 at 10 to 180 MeV, optical model analysis of elastic, (E/T), 24:43160
scattering by calcium-40 at 10 to 22 MeV, differential cross sections and spectra for elastic, (E), 22:15953 (LA-3842)
scattering by calcium-40 at 10 to 22 MeV, differential cross sections for elastic, (E), 23:1805
scattering by calcium-40 at 10.1 to 12.5 MeV, cross-section and polarization excitation functions for polarized elastic, (E), 25:48064
scattering by calcium-40 at 12 MeV, γ spectra from inelastic, (E), 24:3878 (CEA-CONF-1335)
scattering by calcium-40 at 13 MeV, inelastic, (E), 21:17324
scattering by calcium-40 at 185 MeV, differential cross sections for inelastic, (E), 25:28255
scattering by calcium-40 at 185 MeV, polarization angular distributions from inelastic, (E), 25:28256
scattering by calcium-40 at 20 MeV using polarized beams, optical-model analysis of elastic, (E/T), 23:52120 (UCRL-18667, pp 65-132)
scattering by calcium-40 at 20 to 55 MeV, DWBA calculations of angular distributions and polarizations from inelastic, (E/T), 25:39127
scattering by calcium-40 at 20.3 to 55 MeV, excitation of lowest 3- and 5-states by inelastic, (T), 23:37327
scattering by calcium-40 at 21.0 to 48.0 MeV, differential cross sections for, (E), 25:31295
scattering by calcium-40 at 24 MeV, γ spectra from inelastic, (E), 22:44661
scattering by calcium-40 at 24.5 MeV of polarized, DWBA analysis of angular distributions and asymmetries from inelastic, (E/T), 25:14923 (CEA-CONF-1656)
scattering by calcium-40 at 27.4 MeV, elastic, (E), 21:11991(R) (UCOL-535-561)
scattering by calcium-40 at 30 MeV, analysis using realistic interaction, (T), 25:53752(R) (ORNL-4659)
scattering by calcium-40 at 30 MeV, optical-model calculation with complex effective interaction of angular distributions from inelastic, (T), 25:41211
scattering by calcium-40 at 30 to 45.5 MeV, optical-model analysis of angular distributions from elastic, (E/T), 25:20311

scattering by calcium-40 at 35.8 to 45.5 MeV, differential cross sections and polarizations for elastic, (E), 21:46690
scattering by calcium-40 at 36 to 45 MeV, polarization from elastic, 21:21493
scattering by calcium-40 at 4.8 to 6.2 MeV, proton angular distributions from elastic and inelastic, (E), 24:40590
scattering by calcium-40 at 4.8 to 6.2 MeV, resonances in elastic and inelastic, (E), 23:39982
scattering by calcium-40 at 5 to 13 MeV, complex phase-shift analysis of angular distributions for elastic, (E), 23:15346(R) (ORO-1316-70)
scattering by calcium-40 at 5 to 6 MeV, excitation functions for inelastic, (E), 23:10986
scattering by calcium-40 at 5.0 to 12.5 MeV, complex phase-shift analysis of elastic, (E), 23:1882 (WASH-1093)
scattering by calcium-40 at 5.0 to 12.5 MeV, phase-shift analysis of angular distributions for, (E), 22:27063
scattering by calcium-40 at 5.0 to 12.6 MeV, cross sections for, 22:18202
scattering by calcium-40 at 5.4 to 7.4 MeV, excitation functions for elastic and inelastic, (E), 21:33921
scattering by calcium-40 at 5.8 to 6.6 MeV, cross sections for formation of 0^+, 3^-, and 2^+ states in inelastic, (E), 25:22989
scattering by calcium-40 at 50 and 150 MeV, quadrupole level excitation by inelastic, (T), 21:33872(R) (ORNL-4122)
scattering by calcium-40 at 6 to 13 MeV, differential cross sections for elastic, (E), 21:40432 (WASH-1074)
scattering by calcium-40 at 7.2 to 11.2 MeV, intermediate structure in excitation curves for inelastic, (E), 24:43302
scattering by calcium-40 at 8.0 to 12.5 MeV, angular distributions of elastic and inelastic, (E), 24:22116
scattering by calcium-40 at 8.0 to 12.5 MeV, total cross section for inelastic, (E), 24:22116
scattering by calcium-40 at 8.5 to 10 MeV, proton—gamma angular correlations and gamma spectra from inelastic, (E), 23:34763
scattering by calcium-40 at 8.5 to 9.0 MeV, gamma spectra and angular distributions from, (E), 23:42890
scattering by calcium-40, angular correlation measurements on inelastic, (E), 23:15346(R) (ORO-1316-70)
scattering by calcium-40, carbon-12, and nickel-58, optical-model potential for, (T), 22:27262
scattering by calcium-40, carbon-12, lead-208, and zirconium-90 at 185 MeV with 3^- excitation, polarization in inelastic, (E), 25:53647
scattering by calcium-40, carbon-12, oxygen-16, and silicon-28, phase-shift analysis of polarization effects in elastic, (T), 25:56678
scattering by calcium-40, cobalt-59, and iron-56 at 30.3 MeV, optical-model analysis of polarization angular distributions for polarized elastic, (E), 25:34016
scattering by calcium-40, gallium, iron-56, scandium-45, and vanadium-51 at 9.6 MeV, optical analysis of elastic, (T), 22:50662
scattering by calcium-40, inelastic, (E), 22:26980
scattering by calcium-40, lead-208, nickel-58, and tin-120 at 40 MeV, real part of optical potential for, (T), 22:44774
scattering by calcium-40, magnesium-24, and silicon-28 at 20.3 MeV using polarized beams, cross sections and asymmetries for inelastic, (E), 25:5506 (CEA-N-1232, pp 81-159)
scattering by calcium-40, magnesium-24, silicon-28, and sulfur-32 at 155 MeV, elastic and inelastic, (E), 22:26946
scattering by calcium-40, silicon-28, and nickel-58 at 8 to 10 MeV, γ Doppler-shift attenuation in, 22:11926
scattering by calcium-42 and -44 at 23 MeV, cross-section angular distributions for elastic and inelastic, (E), 22:9800(R) (COO-535-571)
scattering by calcium-42 and calcium-44 at 1 to 2 MeV, excitation functions for elastic, (E), 23:3966
scattering by calcium-42 and calcium-44 at 1.1 to 2.4 MeV, isobaric analog resonances in elastic, (E), 22:22560(R) (ORO-1067-2)
scattering by calcium-42 and calcium-44 at 22.9 MeV, elastic and inelastic, (E), 21:11991(R) (UCOL-535-561)
scattering by calcium-42 and calcium-44 at 22.9 MeV, angular distribution calculations using shell model, (E/T), 22:46742
scattering by calcium-42 at 7 MeV, p-γ angular correlations from inelastic, (E), 25:12465
scattering by calcium-42 at 7.8 MeV, γ and proton spectra for inelastic, (E), 23:25864
scattering by calcium-42, -44, and -48 at 1.1 to 2.4 MeV, isobaric analog resonances in elastic, (E), 22:20578 (WASH-1079)
scattering by calcium-42, calcium-44, and calcium-48, isobaric analog resonances in, (E), 23:19254(R) (ORO-3624-7)
scattering by calcium-42, calcium-44, and calcium-46 at 9 to 12 MeV, differential cross sections for elastic, (E/T), 21:23534(R) (ANL-7246)
scattering by calcium-42, calcium-44, and calcium-48, isobaric analog resonances in elastic, (E), 23:1882 (WASH-1093)
scattering by calcium-42, calcium-44, and scandium-45 at 50 MeV, angular distributions and polarization for, (E), 23:30923(R) (RHEL/R-170)
scattering by calcium-42, nickel-60, titanium-48, and zinc-66 at 5.5 to 7 MeV, γ spectra from inelastic, (E), 24:10963
scattering by calcium-43 at 2.55, 3.24, and 3.61 MeV, γ spectra from inelastic, (E), 22:29965
scattering by calcium-44 and titanium-50, isobaric analog resonance parameters for elastic, (E), 22:53139
scattering by calcium-44 at 10 MeV, proton spectra for inelastic, (E), 23:25884
scattering by calcium-44, energy level spins from inelastic, (E), 22:5817(R) (NYO-GEN-72-28)
scattering by calcium-44, scandium-45, and titanium-46 at 17.5 MeV, angular distributions for inelastic, (E), 22:44651
scattering by calcium-46 at 1.8 to 1.9 MeV, excitation functions for elastic, (E), 25:53672
scattering by calcium-46 at 1.8 to 4.2 MeV, calcium-47 isobaric analog levels from elastic and inelastic, (E), 21:42595
scattering by calcium-48 at 1.9 to 2.0 MeV with excitation of isobaric analog resonances, excitation functions for elastic, (E), 23:25879
scattering by calcium-48 at 1.94 to 2.00 MeV, isobaric analog resonances in, (E), 22:27042
scattering by calcium-48 at 4 to 8 MeV, relative excitation function for elastic, (E), 25:36690 (NP-18824)
scattering by calcium-48 at 6 to 13 MeV, energy dependence of cross sections and polarization for elastic, (E), 25:53711
scattering by calcium-48 at 6 to 8 MeV, excitation functions and spectra for elastic, (E), 21:40407
scattering by calcium-48 at 6.0 to 12.7 MeV, optical-model analysis of cross-section and polarization angular distributions and excitation functions for polarized elastic, (E), 25:48064
scattering by calcium-48 at 6.5 MeV, γ spectra from inelastic, (E), 22:26947
scattering by calcium-48 at 7.5 and 8.2 MeV with isobaric analog excitation, angular distribution for inelastic, (E), 24:43292
scattering by calcium-48 with intermediate triton formation, strong-coupling microscopic calculation for inelastic, (T), 25:46124
scattering by calcium-48, isobaric analog resonances in, (E), 22:22560(R) (ORO-1067-2)
scattering by calcium-48, spectroscopic factors for analog resonances in elastic, (E), 22:30094
scattering by carbon and copper at 350 to 1000 MeV/c at 137°, spectra of, (E), 21:29896
scattering by carbon and silicon at 30 and 50 MeV, polarization and cross sections for elastic and inelastic, (E/T), 21:21452
scattering by carbon at 10 to 1000 BeV, cross sections for inelastic, (E), 22:13272
scattering by carbon at 2.4 and 3.0 MeV, proton beam polarization from left—right asymmetry in elastic, (E), 23:42826
scattering by carbon at 20 to 28 MeV, optical-model analysis of elastic, (T), 21:31838 (RHEL/R-136, pp 89-130)
scattering by carbon at 20 to 28 MeV, polarization in elastic and inelastic, (E), 21:21451
scattering by carbon at 200 to 400 MeV, use of spark chamber—computer system for measuring polarization in, 21:39228
scattering by carbon at 3.5 and 3.7 MeV, angular distribution of polarization of elastic, (E), 22:50539
scattering by carbon at 4.5 MeV, phase shift analysis of elastic, (T), 24:13276 (IFA-CRD-39)
scattering by carbon monoxide at 30 to 600 keV, ionization and charge exchange cross sections in, (E), 21:28995
scattering by carbon, lead-208, nickel-58, and nickel-60 at 49 MeV, angular distribution of polarization in, (E), 21:1062
scattering by carbon, lead-208, nickel-58, and nickel-60 at 25 to 30 MeV, polarization angular distributions in, (E/T), 21:21495
scattering by carbon-12 and calcium-40 at 20 and 40 MeV, cross sections and optical potentials for, (T), 23:37286 (COO-1051-33)
scattering by carbon-12 and carbon-13 at 7 MeV, optical-model analysis of differential cross sections and polarization for, (E), 23:28257
scattering by carbon-12 and helium-4 at 100 to 300 MeV, differential cross sections and polarizations for elastic, (T), 21:27650
scattering by carbon-12 and lithium-7 at 185 MeV, angular distributions for inelastic, (E), 22:20467
scattering by carbon-12 and nickel-58 at 20 MeV, angular distributions for elastic and inelastic, (E), 25:25724(R) (RLO-1388-121)
scattering by carbon-12 and oxygen-16 at 1 GeV, analysis using Glauber theory and optical model for elastic, (T), 23:19164
scattering by carbon-12 and oxygen-16 at 1 GeV, cross sections for elastic and inelastic, (T), 22:15815
scattering by carbon-12 and oxygen-16 at 1 GeV, cross sections for, (E), 22:5498 (BNL-11890)
scattering by carbon-12 and oxygen-16 at 1 GeV, differential cross sections and deformation parameters for, (E), 22:3630
scattering by carbon-12 and oxygen-16 at 1.5 to 3.0 MeV, polarization and phase shifts for, (E), 21:40388
scattering by carbon-12 and oxygen-16 at 156 MeV, excitation of energy levels by inelastic, (E), 21:44590
scattering by carbon-12 and oxygen-16 at low energy, optical-model analysis of, (T), 24:8853
scattering by carbon-12 at 0 to 10 MeV, coupled-channel calculations for elastic and inelastic, (E), 21:23433
scattering by carbon-12 at 0.9 to 21.5 GeV/c, Regge-pole analysis of cross sections for, 22:48327
scattering by carbon-12 at 1 and 21 GeV, differential cross sections for elastic and quasi-elastic, 22:46462
scattering by carbon-12 at 1 GeV, analysis using Glauber theory and α-particle model, (T), 25:59727
scattering by carbon-12 at 1 GeV, differential cross section for elastic, (T), 25:9983
scattering by carbon-12 at 1 GeV, nuclear opaqueness model for differential cross sections for, (E/T), 25:31234
scattering by carbon-12 at 1 to 3 MeV using polarized beams, polarization from elastic, (E), 23:13210
scattering by carbon-12 at 1.6 to 173 MeV, cross section evaluations for elastic and inelastic, 21:7697
scattering by carbon-12 at 1.7 GeV, cross sections from amplitudes of elastic, (T), 24:42987
scattering by carbon-12 at 1.7 to 2.3 MeV, polarization in elastic, (E), 21:21458
scattering by carbon-12 at 10 to 22 MeV, excitation functions for elastic, (E), 24:13301
scattering by carbon-12 at 10.3 to 21.6 MeV, cross sections for, (E), 25:12497
scattering by carbon-12 at 100 MeV, differential cross sections for inelastic, (E), 24:26591
scattering by carbon-12 at 100 MeV, distorted-wave calculations with impulse approximation for inelastic, (T), 23:15383
scattering by carbon-12 at 100 MeV, performance of germanium range—telescope spectrometer for obtaining spectra from, 22:350
scattering by carbon-12 at 11 to 20 MeV, proton polarization and asymmetry of elastic and inelastic, (E) , 23:21255
scattering by carbon-12 at 12 to 14 MeV, differential cross section and spin-flip probability for inelastic, (E), 24:40565
scattering by carbon-12 at 12 to 14 MeV, differential cross sections and spin-flip probability for inelastic, (E), 24:52563(R) (NP-18217)
scattering by carbon-12 at 13 MeV, angular correlations and spin flip in inelastic, (E), 21:38301(R) (RLO-1388-13)
scattering by carbon-12 at 13.5 to 24.5 MeV, resonances in elastic and nonelastic, (E), 21:13796(R) (ORO-2972-25)
scattering by carbon-12 at 135 to 173 MeV, optical-model analysis of polarization and asymmetry from elastic and inelastic, (E/T), 25:25640 (ITF-70-87-P)
scattering by carbon-12 at 14 to 18.5 MeV, elastic and inelastic, (E), 21:29907
scattering by carbon-12 at 14.2 to 21.5 MeV, excitation functions for elastic, (E), 23:44836
scattering by carbon-12 at 14.24 to 14.27 MeV, differential cross sections for elastic and inelastic, (E), 22:20486
scattering by carbon-12 at 140 MeV, bremsstrahlung amplitudes from elastic, (E/T), 25:17728
scattering by carbon-12 at 142, 210, and 310 MeV, optical-model calculations for elastic, 21:30057
scattering by carbon-12 at 152 MeV, analysis using impulse approximation for multiple scattering effects in inelastic, (T), 22:48456
scattering by carbon-12 at 156 MeV, particle—hole calculation for cross sections and polarization for inelastic, (T), 23:28251
scattering by carbon-12 at 160 and 1014 MeV, analysis in quasifree approximation using distorted-wave theory, 24:24508
scattering by carbon-12 at 17 to 22 MeV, excitation functions for elastic and inelastic, (E), 22:26909
scattering by carbon-12 at 17 to 22 MeV, excitation functions for inelastic, (E), 24:13301
scattering by carbon-12 at 17.7 to 18.3 MeV, isobaric analog resonances in inelastic, (E), 22:30048(R) (PUC-937-307)
scattering by carbon-12 at 185 MeV, DWBA analysis of differential cross sections from elastic and inelastic, (E/T), 25:5552 (ITF-70-50)
scattering by carbon-12 at 185 MeV, multipole analysis of elastic and inelastic, (E), 24:38303 (ITF-70-18)
scattering by carbon-12 at 2.875 MeV, angular distribution of polarization in elastic, (E), 21:25442
scattering by carbon-12 at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by carbon-12 at 20.5 to 30.3 MeV, differential cross sections for inelastic, (E), 21:27528
scattering by carbon-12 at 23 MeV, coherent γ Doppler effect in, (E), 21:46679
scattering by carbon-12 at 24.5 MeV using polarized beams, angular distributions and asymmetries for elastic and inelastic, (E), 25:45912 (CEA-N-1390, pp 91-137)
scattering by carbon-12 at 26 and 40 MeV, p-γ coincidence spectra and proton spin-flip probability for inelastic, (E), 24:18358
scattering by carbon-12 at 26.2 and 40.0 MeV, proton spin flip in inelastic, (E), 24:6839
scattering by carbon-12 at 3.4 MeV, angular distribution of polarization in elastic, (E), 24:3855
scattering by carbon-12 at 3.5 and 3.7 MeV, phase shift analysis of elastic, (E/T), 23:46933
scattering by carbon-12 at 30, 40, and 50 MeV, differential cross sections and polarizations for, (E/T), 21:31737 (RHEL/R-136, pp 28-51)
scattering by carbon-12 at 4 to 10 MeV, nitrogen-13 energy levels from elastic, (E), 21:13796(R) (ORO-2972-25)
scattering by carbon-12 at 4 to 12 MeV, proton polarization in elastic and inelastic, (E), 21:15480
scattering by carbon-12 at 4.6 to 11.4 MeV, differential cross sections for elastic and inelastic, (E/T), 21:15483 (CEA-R-3006)
scattering by carbon-12 at 4.6 to 9.6 MeV, differential cross sections and polarizations for elastic, (E), 22:50536
scattering by carbon-12 at 4.7 to 12.8 MeV, complex phase-shift analysis of elastic, (E), 21:15506
scattering by carbon-12 at 4.8 to 8 MeV, analysis using vibrational and rotational models, (T), 25:53639
scattering by carbon-12 at 40 MeV, spin-flip probability of 4.43-MeV level in inelastic, (E), 21:33872(R) (ORNL-4122)
scattering by carbon-12 at 40 to 50 MeV for proton polarization measurement, 24:13243
scattering by carbon-12 at 45 MeV, phase-shift ambiguities in elastic, 21:33872(R) (ORNL-4122)
scattering by carbon-12 at 46 MeV, energy levels from inelastic, (E), 21:42565
scattering by carbon-12 at 46 MeV, exchange effects in angular distributions from inelastic, (T), 25:38900
scattering by carbon-12 at 5.1 MeV, asymmetry in elastic, (E), 21:44597

scattering by carbon-12 at 5.18 to 5.48 MeV, complex phase shifts for elastic, (E), 21:7714
scattering by carbon-12 at 5.41, 5.78, and 5.89 MeV, differential cross sections and polarizations for, (E), 21:33897
scattering by carbon-12 at 50 MeV, differential cross sections for elastic and inelastic, (E), 21:23422
scattering by carbon-12 at 55 MeV, angular distributions for inelastic, (E), 22:26898
scattering by carbon-12 at 8.20 to 9.26 MeV, cross sections and complex phase shifts for elastic and inelastic, (E), 21:7712
scattering by carbon-12 at 8.6 to 10.0 MeV, polarization and differential cross sections for elastic, (E), 21: 21459
scattering by carbon-12 at 90 to 300 MeV, polarization in elastic and inelastic, (E), 21:38229 (CALT-68-113)
scattering by carbon-12 at 90, 100, and 156 MeV, double-scattering corrections to differential inelastic cross sections for, (T), 21:30056
scattering by carbon-12 below 3 MeV, analysis of gamma emission in inelastic, (T), 22:32725
scattering by carbon-12 or oxygen-16, angular momentum method for studies on elastic, (T), 24: 52717
scattering by carbon-12 up to 8 MeV, coupled-channel analysis of elastic, (T), 24:20320 (JAERI-1184, pp 49-51)
scattering by carbon-12 with excitation of isobaric analog resonances, excitation functions for elastic and inelastic, (E), 23:23642
scattering by carbon-12, aluminum-27, calcium-40, nickel-58, zinc-68, zirconium-90, tin-116, and lead-208 at 61.4 MeV, angular distributions for, (E), 23:42861
scattering by carbon-12, analysis using coupled-channel theory and collective models, (T), 25:38903
scattering by carbon-12, deuterium, helium-4, and oxygen-16 at 1 GeV, differential cross sections for elastic, (E), 22:24826 (BNL-12342)
scattering by carbon-12, deuterium, helium-4, and oxygen-16 at 1 GeV, cross sections for, (T), 22:53088
scattering by carbon-12, deuterium, helium-4, hydrogen, and oxygen-16 at 1 GeV, elastic, (E), 22:26831 (BNL-12344)
scattering by carbon-12, deuterium, helium-4, hydrogen, and oxygen-16 at 1 GeV, optical-model analysis of elastic, (E/T), 22:29907 (ORO-1316-57)
scattering by carbon-12, fluorine-19, oxygen-16, and sodium-23, resonances in elastic, (E), 22:26989
scattering by carbon-12, helium-4, and oxygen-16 at 1 GeV, cross sections from elastic, (E/T), 25:7912
scattering by carbon-12, helium-4, hydrogen, and oxygen-16 at 1 GeV, differential cross sections for elastic, (E), 21:29885
scattering by carbon-12, helium-4, magnesium-24, and silicon-28 at 152 MeV, optical-model analysis of, (T), 22:44782
scattering by carbon-12, magnesium-24, and silicon-28 at 100 MeV, angular distributions and high-resolution energy spectra from, (E), 23:46938
scattering by carbon-12, magnesium-24, oxygen-16, and silicon-28, isospin-forbidden resonances in, (E), 22: 27051
scattering by carbon-12, magnesium-24, silicon-28, sulfur-32, and calcium-40 at 155 MeV, spin-dependent effects on cross sections and polarizations for inelastic, (T), 24:13296
scattering by carbon-12, nickel-58, and nickel-60, proton spin-flip probability and differential cross sections for, (E), 23:23648 (RLO-1388-94)
scattering by carbon-12, nickel-58, nickel-60 and nickel-64 at 9.3 to 20 MeV, differential cross sections and spin-flip probabilities for inelastic, (E), 23:37127
scattering by carbon-12, nickel-58, nickel-60, and nickel-64, proton spin—flip probability for inelastic, (E), 22: 50538
scattering by carbon-12, nickel-60, and nickel-62 at 16.5 MeV, polarization in elastic and inelastic, (E), 21: 21496
scattering by carbon-12, nitrogen-13 energy levels from, (E), 21:25435
scattering by carbon-13 and nitrogen-14, cross sections for, (E), 23:9044
scattering by carbon-13 and oxygen-16 at 30.3 MeV, coupled-channel analysis of inelastic, (E/T), 25:53646
scattering by carbon-13 at 1.0 to 2.6 MeV, differential cross sections for elastic, (E), 21:19200
scattering by carbon-13 at 1.5 to 2.4 MeV, DWBA calculation with spin—orbit potential for elastic, (T), 23:10938 (COO-1573-40)
scattering by carbon-13 at 32.9 MeV, polarization—asymmetry test of time reversal invariance using elastic, (E), 23:3786
scattering by carbon-13 at 33 MeV using polarized beams, proton spin-flip in elastic, (E), 23:1881 (ORNL-TM-2364)
scattering by carbon-13 at 33 MeV using polarized beams, testing time reversal invariance by elastic, (E/T), 22:35292 (ORNL-4217, pp 1-81)
scattering by carbon-14 and nitrogen-14 at 14.5 MeV, angular distributions for elastic and inelastic, (E), 25: 36673
scattering by carbon-14 at 0.6 to 2.7 MeV, resonances in elastic, (E), 22:44621
scattering by carbon-14 at 1.0 to 2.7 MeV, differential cross section for elastic, (E), 22:41959
scattering by carbon-14 at 1.0 to 2.7 MeV, differential cross section for elastic, (E), 22:41975
scattering by carbon-14 at 2.0 to 3.6 MeV, differential cross sections for elastic, (E), 22:18158
scattering by carbon-14, Chew—Frautschi plot for elastic, (T), 23:39967
scattering by carbon-14, Regge trajectory for elastic, (T), 23:13330
scattering by cerium-140 at 9 to 12 MeV, isobaric analog resonances in inelastic, (E), 22:11949(R) (ORO-2972-47)
scattering by cerium-140 at 9.4 to 11.7 MeV with excitation of isobaric analog resonances, angular distributions for, (E), 23:25924
scattering by cerium-140 at 9.5 to 11.7 MeV, isobaric analog resonances in inelastic, (E), 21:25529
scattering by cerium-140 at 9.5 to 12 MeV, excitation function for elastic, (E), 21:25528
scattering by cerium-140 at 9.6 to 10.7 MeV, excitation functions and spectra for inelastic, (E), 22:20632
scattering by cerium-140, excitation functions for inelastic, (E), 22:20611
scattering by cerium-141, parentage coefficient for p and f states from inelastic polarized, 25:48105
scattering by cerium-141, parentage coefficients for p and f states from inelastic polarized, 25:48105
scattering by cerium-142, neodymium-144, and neodymium-146 at 9.5 to 10.2 MeV with excitation of isobaric analog resonances, polarization analyzing power for elastic, (E), 23:21356
scattering by chlorine-35 and -37 at 4.6 to 6.2 MeV, p-γ angular correlations from inelastic, (E), 24:10960
scattering by chlorine-35 and -37 at 4.7 to 5.4 MeV, proton and γ spectra and triple angular correlations from inelastic, (E), 24:18373
scattering by chlorine-35 at 3.115- and 3.345-MeV resonances, angular distribution and linear polarization of inelastic, (E), 23:39993
scattering by chlorine-35 at 4 to 6 MeV, γ ray angular distributions and polarization from inelastic, (E), 24: 22115
scattering by chlorine-35 at 5.11 MeV, polarization measurements of partially resolved gamma rays from inelastic, 24:9678
scattering by chlorine-35 at 5.47 to 5.61 MeV, excitation function for inelastic, (E), 25:56752(R) (SUNI-14)
scattering by chlorine-35, sulfur-33, and sulfur-34 at 6 MeV, angular distributions for elastic and inelastic, (E), 25:31291
scattering by chlorine-37 at 1.1 to 1.8 MeV, partial proton widths of argon-38 analog states from elastic, (E), 22:20524
scattering by chromium isotopes at 17.5 MeV, energy levels from, (E), 21:29946
scattering by chromium, preparation of target for studying, 25:1694
scattering by chromium-50 and chromium-54 at 1.5 to 2.5 MeV, inelastic, (E), 21:21484
scattering by chromium-50 at 5.56 MeV, energy levels from inelastic, (E), 21:31738 (TID-23854)
scattering by chromium-50 at 6.33 and 6.45 MeV, energy-level spins and transitions from inelastic, (E), 22:27035
scattering by chromium-50 at 7.5 MeV, angular distributions for inelastic, (E), 22:37332
scattering by chromium-50, -52, -54 and zinc-64 up to 4 MeV, gamma angular distributions for, (E), 25:31253
scattering by chromium-52 and chromium-53 at 7.5 MeV, angular distributions for elastic and inelastic, (E), 23:5851
scattering by chromium-52 and iron-54 at 11 MeV, proton spin-flip probability in, (E), 21:25503
scattering by chromium-52 and magnesium-24 at 5.38 to 5.95 MeV, excitation functions, polarization, and angular distributions from elastic and inelastic, (E), 25: 12433 (NP-18552)
scattering by chromium-52 and nickel-62 at 16.5 and 18.6 MeV using polarized protons, asymmetries in inelastic, (E), 22:9834
scattering by chromium-52 and titanium-48 at 155 MeV, effects of core polarization in shell-model formalism for inelastic, (T), 22:27270
scattering by chromium-52 at 4 to 8 MeV, excitation functions and spectra from elastic and inelastic, (E), 25:45950 (NP-18811)
scattering by chromium-52 at 5.4 to 6 MeV, polarization in inelastic, (E), 25:53720
scattering by chromium-52 at 6.2 to 6.5 MeV, p—γ angular correlations and γ spectra for inelastic, (E), 23:3993
scattering by chromium-52 at 9, 10, 11, and 12 MeV, proton spectra from inelastic, (E), 21:38285
scattering by chromium-52 at 9, 10, and 11 MeV, proton spectra from inelastic, (E), 21:33901 (ANL-7289)
scattering by chromium-52, iron-56, maganese-55, and vanadium-51 at 17.5 MeV, proton spectra for elastic and inelastic, (E), 23:46973
scattering by chromium-52, iron-56, manganese-55, nickel-60, and vanadium-51 at 17.5 MeV, inelastic, (E), 22:30048(R) (PUC-937-307)
scattering by chromium-52, nickel-60, and nickel-62 at 16.5 and 18.6 MeV using polarized beams, asymmetries for elastic and inelastic, (E), 23:42870 (CEA-R-3458)
scattering by chromium-52, titanium-50, and vanadium-51 at 40 MeV, microscopic description of inelastic, (E), 25:14928
scattering by chromium-53 at 16.6 MeV using polarized beams, vector analyzing power for elastic, (E), 23: 25898
scattering by chromium-53 at 17.5 MeV, energy levels from inelastic, (E), 21:35453
scattering by chromium-53 at 2.3, 2.4, and 2.5 MeV, angular distribution of γ rays from, (E), 22:13967
scattering by chromium-53 at 6.5 MeV, p—γ coincidence spectra for inelastic, (E), 23:5851
scattering by chromium-53, excitation functions for elastic, (E), 25:31248
scattering by chromium-54 at 2.4 to 2.7 MeV, differential cross sections for elastic, (E), 25:38947
scattering by chromium-54 at 3.50 to 3.65 MeV, using polarized beams, elastic, (E), 22:35285(R) (AERE-PR/NP-13)
scattering by chromium-54 at 3.6 MeV, isobaric analog resonance in elastic, (E), 22:9802(R) (NYO-1082-9)
scattering by chromium-54 at 9 to 10 MeV, excitation function for elastic, (E), 21:1056
scattering by chromium-54 at 9.3 to 10.1 MeV, statistical model analysis of fluctuations in elastic and inelastic, (E/T), 24:1787
scattering by cobalt-59 and bismuth-209 at 14.4 MeV, optical-model potential for elastic, (E/T), 22:5894
scattering by cobalt-59 and iron-56 at 6.9 MeV, optical-model analysis of cross-section and polarization angular distributions from elastic, (E), 25:28263
scattering by cobalt-59 and nickel-62 at 13 MeV, cross sections and spectra for, (E), 25:45992
scattering by cobalt-59 and nickel-62 at 13.0 MeV, cross sections and spectra from inelastic, (E), 25:41230(R) (NYO-3938-4)
scattering by cobalt-59 and zirconium-90 at 9.8 MeV, cross sections and polarization for elastic, (E), 24: 5389(R) (COO-1265-83)
scattering by cobalt-59 at 14 MeV, proton spectra from inelastic, (E), 25:53663(R) (COO-1505-48)
scattering by cobalt-59 at 16 MeV, effects of angular momentum on compound-nucleus formation and decay in inelastic, (E), 22:53150
scattering by cobalt-59 at 6 MeV, angular distributions for elastic and inelastic, (E), 23:19213
scattering by cobalt-59, iron, nickel, and zinc at 28 MeV, cross sections for elastic and inelastic, (E), 25:3599
scattering by cobalt-59, iron-54, and nickel-58 at 10 MeV using polarized beams, polarization angular distributions for elastic, (E), 23:1929(R) (COO-1265-67)
scattering by cobalt-59, iron-56, lead-208, nickel-58, nickel-60, and tin-120 at 30.3 MeV, optical model analysis using potentials derived from nucleon density distributions and two-body potentials, (T), 24:1779 (COO-1265-81)
scattering by copper and gold at 5.5 MeV, performance of magnetic spectrometer for elastic, 21:19934
scattering by copper at 0.407, 0.851, and 1.45 MeV, angular distributions and effective atomic numbers for multiple, (E), 25:9163
scattering by copper at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by copper at 9.8 MeV, partial-wave theory for elastic, 21:34055
scattering by copper surfaces at 40 to 120 keV, angular and energy distributions in, (E), 22:26473
scattering by copper, lead, and uranium at 19.3 GeV/c, eikonal optical for, (T), 22:44452
scattering by copper-63 and -65 at 15.7 MeV using polarized beam, asymmetry in inelastic, (E), 25:53719
scattering by copper-63 and -65 at 30 and 50 MeV, differential cross sections and polarization for elastic, (E), 24:43273
scattering by copper-63 and -65 at 30 and 50 MeV, standard- and reformulated-optical-model analyses of differential cross sections and polarizations from elastic, (T), 25:50689
scattering by copper-63 and -65 at 30.3 and 49.3 MeV, differential cross sections and polarizations from elastic, (E), 25:50688
scattering by copper-63 and -65 at 9.4 to 11.0 MeV, excitation functions for elastic and inelastic, (E), 22: 20503
scattering by copper-63 and copper-65 at 6 to 12 MeV, cross sections for inelastic, (E), 22:39586
scattering by copper-63 and copper-65 at 6.5 MeV, rho-γ coincidence measurements on inelastic, (E), 22:32516 (MIT-2098-422, pp 43-68)
scattering by copper-63 and copper-65, energy-level excitation in inelastic, (E), 22:46736
scattering by copper-63, copper-65, and zinc-67 at 14 and 16 MeV, final-state spin dependence in, (E), 23: 28279
scattering by copper-63, copper-65, germanium-70, germanium-74, zinc-64, and zinc-66 at 12 MeV, proton spectra from, (E), 21:38273
scattering by copper-63, copper-65, nickel-58, nickel-60, zinc-64, and zinc-66 at 10 MeV, testing compound statistical model by inelastic, (E/T), 21:13828
scattering by copper-63, iron-54, iron-56, nickel-58, nickel-64, titanium-48, and titanium-50 at 18.6 MeV using polarized protons, asymmetries in inelastic, (E), 22:9834
scattering by crystals at low energies, correspondence of classical and quantum mechanical descriptions of, 22: 1310
scattering by crystals, theory of star patterns from, 22: 31920 (BNL-50083, pp 106-24)
scattering by deformed carbon-12 at 1 GeV, differential cross sections for elastic, 25:14918
scattering by deformed carbon-12, differential cross sections for elastic, (T), 25:17707 (INP-721)
scattering by deformed nuclei, second-order Born approximation for elastic and inelastic, (T), 23:7317
scattering by deformed nuclei, spin-dependent optical potential for elastic, (T), 23:28352
scattering by deuterium at 1.000 to 10.04 MeV, differential cross section measurements for, (E), 23: 39936
scattering by deuterium at 10 and 22 MeV using polarized beams, polarization in elastic, (E), 23:8932
scattering by deuterium at 10 to 20 MeV, angular distributions and polarization from elastic, (E), 21: 17299
scattering by deuterium at 10 to 20 MeV, polarization angular distribution from, (E), 21:29969(R) (UCRL-17299)
scattering by deuterium at 100 MeV, approximations for analysis of elastic, (T), 23:8930
scattering by deuterium at 100 MeV, effects of approximations on calculation of cross section for elastic, (T), 23:3927 (IPNO/LA-3)
scattering by deuterium at 11 to 22.7 MeV, angular distributions of proton polarization from elastic, (E), 23:21255
scattering by deuterium at 12 MeV using polarized beams, angular distribution of polarization in elastic, (E), 22:53082

scattering by deuterium at 12 MeV, polarization in small-angle elastic, (E), 22:11899
scattering by deuterium at 135 MeV, elastic and inelastic, (E/T), 21:4194
scattering by deuterium at 135 MeV, polarization and triple scattering parameters for elastic, (E), 21:29866
scattering by deuterium at 138 and 155 MeV, polarization in elastic and inelastic, (E), 21:21425
scattering by deuterium at 198 MeV, differential cross section and polarization for elastic, (E), 22:50529
scattering by deuterium at 2 to 14 MeV, calculations using Fadeev method for, 23:25778
scattering by deuterium at 22, 35, and 46 MeV, angular distributions of differential cross sections and polarization for elastic, (E), 23:10928 (UCLA-10-P-18-10)
scattering by deuterium at 22.0, 35.0, and 46.3 MeV, differential cross sections and polarization in elastic, (E), 22:29896
scattering by deuterium at 23 MeV using polarized beams, polarization for elastic, (E), 23:1790
scattering by deuterium at 25.7 MeV, differential cross sections for elastic, (E), 22:15946
scattering by deuterium at 3 MeV, phase-shift analysis of polarization and cross-section data for, (T), 22:7635
scattering by deuterium at 3 to 6 MeV, phase shifts, differential cross sections, analyzing power, and proton polarization for elastic, (T), 25:5546
scattering by deuterium at 3.4 to 9.8 MeV, deuteron tensor polarization in elastic, (E), 21:2615
scattering by deuterium at 30 and 49 MeV, differential cross sections for elastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by deuterium at 30 and 50 MeV using polarized protons, polarization angular distribution in elastic, (E), 22:20445
scattering by deuterium at 35 MeV, differential cross section and polarization for elastic, (E), 22:26810
scattering by deuterium at 4 to 11 MeV, differential cross section for elastic, (E), 21:40429(R) (RLO-1388-23)
scattering by deuterium at 4 to 12 MeV, proton polarization in elastic, (E), 21:15480
scattering by deuterium at 4.5 to 11.4 MeV, angular distributions and excitation functions for elastic, (E), 24:20316
scattering by deuterium at 4.5 to 11.5 MeV, angular distributions and excitation functions for elastic, (E), 23:32895
scattering by deuterium at 46 MeV, angular distributions for elastic and inelastic, (E), 22:20442
scattering by deuterium at 48.3 MeV using polarized beam, depolarization parameter for, (E), 25:48017
scattering by deuterium at 5.53 GeV/c, momentum spectra in, (E), 25:47735
scattering by deuterium at 50 MeV, polarization in elastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by deuterium at 50 MeV, triple scattering parameters for elastic, (E), 25:53540
scattering by deuterium at 6.7 to 7.5 and 10.3 to 11.3 MeV, helium-3 T = 1/2 energy levels from elastic, (E) , 22:1592
scattering by deuterium at 600 MeV, differential cross sections and polarizations for elastic, 25:47738
scattering by deuterium at 800 MeV using polarized and unpolarized beams, analysis of elastic, (T), 25:5517 (LA-4465, pp 16.1-2)
scattering by deuterium at high energy, effects of deuteron break-up in, (T), 22:29898
scattering by deuterium at high energy, interpretation of back-, (T), 23:8924 (TID-24667, pp 399-416)
scattering by deuterium below 14 MeV, energy deposition from elastic, (T), 25:22960 (LA-4543)
scattering by deuterium, helium-3, helium-4, and hydrogen at 600 MeV, differential cross sections for, (E), 25:17687 (N-70-36659)
scattering by deuterium, hydrogen, and oxygen-16 at 1 and 2 GeV, (E), 21:19174 (BNL-11035)
scattering by deuterium, multple scattering formalism for momentum-loss spectra in, (T), 25:41032
scattering by deuterons at 1.7 to 6.4 GeV/c, analysis using Glauber theory, (E/T), 24:28701
scattering by dysprosium-162 at 12 MeV, energy levels from inelastic, (E), 21:40452
scattering by dysprosium-162 at 12 MeV, proton spectra from, (E), 21:38302 (TID-23909)
scattering by erbium-168, excitation in, (E), 24:49777(R) (COO-1746-39)
scattering by europium-151 and europium-153 at 4.5 to 6 MeV with Coulomb excitation, γ spectra from inelastic, (E), 25:3703
scattering by europium-151 at 17.5 MeV, isomer production by inelastic, (E), 21:38370
scattering by europium-153 with Coulomb excitation, Moessbauer spectra from, (E), 22:7697 (NYO-2028-2, pp 24-36)
scattering by even A = 106 through 116 cadmium isotopes at 14 MeV, coupled-channel analysis of elastic and inelastic, (E/T), 23:31023
scattering by even nickel and zinc isotopes at 39.6 MeV, differential cross sections and polarizations for elastic, (E), 24:52524
scattering by even nuclei, spin-dependent effects in inelastic, (T), 23:37299
scattering by even platinum isotopes at 2.7 and 3.0 MeV with Coulomb excitation, γ spectra for inelastic, (E), 23:39976(R) (ORNL-4395)
scattering by even samarium isotopes at 16 MeV, differential cross sections for elastic and inelastic, (E), 21:23523
scattering by even samarium isotopes at 59.8 MeV, angular distributions for, (E), 24:45782
scattering by even stable zinc isotopes at 50 MeV, differential cross sections for elastic and inelastic, (E), 22:5800
scattering by even tin isotopes at 156 MeV, DWBA analysis of, (E/T), 25:17931
scattering by even tin isotopes at 16 MeV, cross-section systematics of inelastic, (T), 21:44717
scattering by even tin isotopes at 24.5 MeV, angular distributions for elastic and inelastic, (E), 25:3668
scattering by even tin isotopes at 30.4 MeV, differential cross sections for elastic, (E), 25:56764
scattering by even tin isotopes, isobaric analog resonances in inelastic, (E), 21:44702
scattering by even zinc isotopes at 49 MeV, energy levels from, (E), 21:42602
scattering by even—even isotopes of cadmium, osmium, palladium, platinum, and tungsten at 2 to 5 MeV with Coulomb excitation, γ singles and coincidence spectra for inelastic, (E), 23:11026
scattering by even—even medium-weight nuclei at 11 MeV, inelastic, 25:17996
scattering by even-A cadmium isotopes, tellurium isotopes, and tin isotopes at 16 MeV, differential cross sections for elastic and inelastic, (E), 23:7323
scattering by even-A cadmium isotopes, tellurium isotopes, and tin isotopes at 16 MeV, optical-model analysis of elastic and inelastic, (E), 22:53196
scattering by even-A cadmium nuclei at 2.7 and 3.0 MeV with Coulomb excitation, γ singles and coincidence spectra and angular distributions for inelastic, (E), 23: 31003
scattering by even-A nickel isotopes, isobaric analog resonances in elastic, (E), 23:19254(R) (ORO-3624-7)
scattering by fluorine-19 at 2.78 MeV, gamma angular distributions, polarizations, and spectra from inelastic, (E), 25:50654
scattering by fluorine-19 at 2.8 MeV, angular distribution and linear polarization of γ rays from inelastic, (E), 24:26590
scattering by fluorine-19 at 4.26, 5.96, and 6.87 MeV, coupled channel analysis of, (E/T), 22:5772
scattering by fluorine-19 at 8 and 9 MeV, p-γ angular correlations in inelastic, (E), 22:26872
scattering by fluorine-19, neon-20 lowest T = 2 energy level from elastic, (E), 21:42568
scattering by fluorine-19, neon-20 lowest T = 2 energy level from elastic, (E), 21:42567
scattering by fluorine-6, fluorine-7, and lithium-19 at 1.36 MeV, differential cross sections for elastic, (E), 23:19155
scattering by germanium and silicon at 0.03 to 30 GeV, atomic displacement from Coulomb, 21:31882
scattering by germanium and silicon crystals at 4.5 MeV, channeling in (111) planar blocking, 25:25216
scattering by germanium, planar blocking effects in, (T), 23:42409
scattering by germanium-70 and germanium-72 at 5 to 7 MeV, γ angular distributions for inelastic, (E), 23: 19207
scattering by germanium-70 and silicon-28, lifetimes of compound systems in inelastic, (E), 24:20347 (JAERI-1184, pp 141-5)
scattering by germanium-70 at 2.7 to 7.4 MeV, excitation functions for elastic and inelastic, (E), 25:43851
scattering by germanium-70 at 7 MeV, proton and γ spectra for inelastic, (E), 23:10982
scattering by germanium-70, -72, -74, and -76 at 14.5 MeV, vibrational model and coupled-channel analysis of, 24:38166
scattering by germanium-70, γ spectra from inelastic, (E) , 22:27006
scattering by germanium-72 at 3.3 to 4.5 MeV, excitation function for elastic, (E), 23:42904
scattering by germanium-72 at 5 MeV, with two-photon transitions, (E), 21:40429(R) (RLO-1388-23)
scattering by germanium-73 at 12 MeV, angular distributions for inelastic, (E), 23:7273
scattering by germanium-73, angular distributions for inelastic, (E), 22:26932(R) (NP-17434)
scattering by germanium-74 at 3.4 to 5.4 MeV, excitation functions for elastic, (E), 22:20536
scattering by germanium-76, isobaric analog resonances in, (E), 21:27574(R) (NYO-GEN-72-132)
scattering by germanium-76, selenium-76, selenium-78, selenium-80, and selenium-82, isobaric analog resonances in elastic, (E), 22:37281(R) (NYO-72-191)
scattering by gold below 50 keV, cross sections for, (E), 22:11544
scattering by gold films at 50 to 110 keV, backscatter intensity as function of film thickness for, (E/T), 24: 51387
scattering by gold-197 and silver at 91 and 156 MeV, angular distributions and spectra from, (E), 21:15596
scattering by gold-197 at 10 to 14 MeV, optical-model analysis of cross sections and polarizations for elastic, (E/T), 25:53789
scattering by gold-197, lead-207, and thallium, search for 5.5-MeV anomalous γ ray in inelastic, (E), 23: 23746(R) (AECL-3257)
scattering by gold-197, platinum-196, and tungsten-184 at 13 to 17 MeV, analog resonance anomalies in elastic and inelastic, (E), 25:28371
scattering by gold-197, platinum-196, and tungsten-184 at 12 to 18 MeV, excitation functions for elastic and inelastic, (E), 24:43118(R) (ANL-7620)
scattering by hafnium-176 and samarium-152 at 24.5 MeV, angular distributions for inelastic, (E), 25:45912 (CEA-N-1390, pp 91-137)
scattering by hafnium-180 at 11.5 to 13.5 MeV, differential cross sections for elastic and inelastic, (E), 22:35299
scattering by heavy nuclei at 55 MeV, angular distributions for elastic, (E), 21:15598
scattering by heavy nuclei, proton widths for analog resonances in, (T), 22:39702
scattering by heavy rotational and vibrational nuclei at 16 MeV, differential cross sections for elastic and inelastic, (E), 22:18304
scattering by helium and hydrogen at 40 to 200 keV, charge-transfer cross sections for, (T), 21:611
scattering by helium at 1 GeV, differential cross sections for elastic, (E), 21:42554
scattering by helium at 1 MeV and small angles, wave function for evaluation of Glauber amplitude for elastic, 25:35868
scattering by helium at 15.4 and 92.7 eV, potential-energy-surface sensitivity of rainbow structure in differential cross sections for elastic, (T), 25:38154
scattering by helium at 7 to 116 eV, semiclassical calculation of differential cross sections for elastic, 24: 45049
scattering by helium at 70 and 80 MeV using polarized beams, phase-shift analysis of polarization in elastic, (E), 23:19142 (UCRL-18088)
scattering by helium, excitation of n ^{1}D states by, (T), 21:7028
scattering by helium-3 and -4 at 100 MeV, angular distributions for elastic, (E), 25:14882
scattering by helium-3 and -4 at 600 MeV, differential cross sections and polarization for elastic, (E), 24: 51942
scattering by helium-3 and -4 at 600 MeV, silicon and germanium detector resolution for cross sections of coherent elastic, (E), 25:46641
scattering by helium-3 and -4 at backward angles, contribution of exchange mechanism in, (T), 25:53527
scattering by helium-3 and -4 at backward angles, pole-diagram analysis of exchange mechanism in, (T), 25: 20250 (JINR-P2-5496)
scattering by helium-3 and 600 MeV, differential cross sections and polarizations for elastic, 25:47738
scattering by helium-3 and tritium at 156 MeV, differential cross sections for, (E), 25:17699
scattering by helium-3 and tritium at 156 MeV, differential cross sections for elastic, (E/T), 25:12365
scattering by helium-3 and tritium at 42 MeV using polarized beams, asymmetries in elastic, (E), 25:53552
scattering by helium-3 and tritium, polarization in elastic, (E), 24:22064 (NP-18116)
scattering by helium-3 at 0.5 to 40.0 MeV, phase-shift analysis using resonating-group method of elastic, (T), 25:43797
scattering by helium-3 at 1.51 to 23.25 MeV, resonating-group calculations of differential cross sections for elastic, (T), 25:43797
scattering by helium-3 at 10 to 20 MeV using polarized beams, proton polarization in elastic, (E), 22:37284 (UCRL-18137)
scattering by helium-3 at 10 to 20 MeV using polarized beams, asymmetry and differential cross sections for elastic, (E), 23:39933
scattering by helium-3 at 10 to 20 MeV, cross section and polarization for elastic, (E), 23:52120 (UCRL-18667, pp 65-132)
scattering by helium-3 at 10 to 20 MeV, polarization in, (E), 21:29969(R) (UCRL-17299)
scattering by helium-3 at 11.6 to 16.4 MeV, differential cross sections for elastic, (E), 21:19168
scattering by helium-3 at 12.6 to 15.4 MeV, cross sections and spectra for, (E), 21:35409
scattering by helium-3 at 13.600 to 19.480 MeV, differential cross sections for elastic, (E), 25:45903
scattering by helium-3 at 156 MeV, proton polarization from elastic, 25:48015
scattering by helium-3 at 18 to 40 MeV, phase-shift analysis of elastic, (E), 25:25629(R) (UCD-CNL-125)
scattering by helium-3 at 18 to 57 MeV, differential cross sections and phase shift analysis of elastic, (E), 25:48014
scattering by helium-3 at 2.38 to 4.46 MeV, phase-shift analysis of cross-section and polarization data for elastic, (E), 22:37340(R) (EANDC(E)-89(U))
scattering by helium-3 at 30 and 50 MeV, differential cross sections and polarizations of elastic, (E), 25:3556
scattering by helium-3 at 30 MeV using polarized protons, polarization angular distribution in elastic, (E), 22:26800
scattering by helium-3 at 30 MeV, search for excited states by inelastic, (E), 22:15943
scattering by helium-3 at 31 MeV, differential cross sections and proton spectra for inelastic, (E), 22:7634
scattering by helium-3 at 34 MeV, cross section for inelastic, (E), 23:25807
scattering by helium-3 at 4 to 11 MeV using polarized beams, polarization angular distributions and phase-shift analysis for elastic, (E/T), 23:19151
scattering by helium-3 at 4 to 11 MeV using polarized target, analyzing power for elastic, (E), 25:53590
scattering by helium-3 at 4 to 11 MeV, polarization in elastic, (E), 21:25424 (ORO-1316-22)
scattering by helium-3 at 4 to 11 MeV, spin dependence of, (E), 24:15776
scattering by helium-3 at 4.0 to 10.8 MeV using polarized beams, asymmetry measurements on elastic, (E), 22:41945
scattering by helium-3 at 4.0 to 10.8 MeV using polarized beams, phase shift analysis of elastic, (E), 23:25791
scattering by helium-3 at 47 MeV, differential cross section for elastic, (E), 22:13927(R) (USC-136-132)
scattering by helium-3 at 5.5 MeV and tritium at 6.5 MeV, cross sections for elastic, (E/T), 25:17971
scattering by helium-3 at 55 MeV, differential cross sections for, (E), 21:29969(R) (UCRL-17299)
scattering by helium-3 at 580 MeV, differential cross section for elastic, (E), 24:30689
scattering by helium-3 at 600 MeV, cross sections for elastic, (E), 25:31185 (LYCEN-7085)
scattering by helium-3 at 8.8 MeV using polarized beam and target, phase shifts and spin-correlation parameter for elastic, (E), 23:19152
scattering by helium-3 at 8.8 MeV, spin—correlation effects in elastic, (E), 23:28304 (WASH-1124)
scattering by helium-3 at low energy, phase-shift analysis of cross section and polarization for elastic, (E/T), 22: 3604
scattering by helium-3, continuum shell-model calculations of scattering phases for elastic, (T), 23: 7342

scattering by helium-3, differential cross sections for elastic, (E), 23:25812 (JINR-P1-4373)
scattering by helium-3, helium-4, and lithium-6 at 100 to 1000 MeV, mechanisms for backward elastic, (T), 25:25300
scattering by helium-4 at 0.5 to 2 MeV, cross section for elastic, (E), 25:17705
scattering by helium-4 at 0.9 to 3.2 MeV, polarization and phase shifts in, (E/T), 21:2619
scattering by helium-4 at 0.94 to 3.20 MeV, phase shifts and polarization in elastic, (T), 21:21419
scattering by helium-4 at 1 GeV, cross sections for, (T), 22:5498 (BNL-11890)
scattering by helium-4 at 1 GeV, nuclear binding correction to amplitude for, (T), 24:15688
scattering by helium-4 at 1 GeV, nuclear opaqueness model for differential cross sections for, (E/T), 25:31234
scattering by helium-4 at 1 GeV/c, model for multiple, 22:50416
scattering by helium-4 at 1 to 12 MeV, analysis of polarization using Humblet—Rosenfeld S-matrix theory, 25:53578
scattering by helium-4 at 1 to 23 MeV, phase-shift analysis of elastic, (T), 25:43781
scattering by helium-4 at 1 to 40 MeV, phase shifts, cross sections, and polarizations from resonating-group study of elastic, (T), 25:12363
scattering by helium-4 at 1.7 GeV, cross sections from amplitudes for elastic, (T), 24:42987
scattering by helium-4 at 1.7 GeV/c, differential cross sections for elastic, (T), 22:26668
scattering by helium-4 at 1.7 GeV/c, Glauber multiple scattering series for, 25:22850
scattering by helium-4 at 10 MeV using polarized beams, phase-shift analysis of elastic, (E), 22:41947
scattering by helium-4 at 12, 14.2, and 17.5 MeV, differential cross sections, polarization, and phase shifts for elastic, (E), 23:39932
scattering by helium-4 at 2 to 50 MeV, calculation of cross-section and polarization angular distributions and phase shifts using nonlocal separable potentials for elastic, (T), 25:31186 (LYCEN-7089)
scattering by helium-4 at 20 to 28 MeV, angular distributions and excitation functions for, (E), 23:5806
scattering by helium-4 at 20 to 40 MeV, contour plot of polarization from elastic, (E), 25:5526 (UCRL-19943)
scattering by helium-4 at 20 to 60 MeV, analysis of cross-section and polarization data for, 25:7808 (UCRL-19530, pp 53-106)
scattering by helium-4 at 200 to 500 keV, left—right asymmetry in elastic polarized, (E/T), 21:31706
scattering by helium-4 at 22 to 24 MeV, differential cross sections and polarization for elastic, (E), 22:15944
scattering by helium-4 at 22 to 36 MeV, search for resonances in elastic, (E), 23:10928 (UCLA-10-P-18-10)
scattering by helium-4 at 22 to 46 MeV, existence of T = 1/2 resonances in elastic, (E), 23:44824
scattering by helium-4 at 24 and 26 MeV, differential cross sections for elastic, (E), 25:5526 (UCRL-19943)
scattering by helium-4 at 29, 40, and 48 MeV, phase-shift analysis of elastic, (T), 21:23408
scattering by helium-4 at 3 to 18 MeV, phase-shift analysis of polarization in elastic, 25:53579
scattering by helium-4 at 31 to 55 MeV, optical-model analysis of elastic, (T), 24:26587
scattering by helium-4 at 31, 46, and 55 MeV, optical-model analysis of, (T), 24:8832(R) (UCLA-10-P-18-13)
scattering by helium-4 at 4.6 to 11.9 MeV, phase shifts and polarization in elastic, (E), 25:31199
scattering by helium-4 at 49 MeV, differential cross sections for elastic, (E), 21:23408
scattering by helium-4 at 540 MeV using polarized beams, asymmetry in elastic, (E), 23:8927
scattering by helium-4 at 586 MeV, angular distribution for elastic, (E), 23:8923 (TID-24667, pp 397-8)
scattering by helium-4 at 588 MeV, analysis using Glauber theory and optical model for elastic, (T), 23:19164
scattering by helium-4 at 6 to 11 MeV, polarization in elastic, (E), 21:19199
scattering by helium-4 at 6 to 11 MeV, proton polarization from elastic, (E), 21:46664
scattering by helium-4 at 6.0 to 11.16 MeV, polarization in elastic, (E), 21:13796(R) (ORO-2972-25)
scattering by helium-4 at 600 MeV, differential cross section for elastic, (E), 22:29897
scattering by helium-4 at 600 MeV, differential cross section for elastic, (E), 25:17700
scattering by helium-4 at 600 MeV, differential cross sections and polarizations for, 25:47738
scattering by helium-4 at 665 MeV, scintillation counter study of differential cross section for backward elastic, (E), 22:20124 (JINR-P1-3720)
scattering by helium-4 at 7.89 to 12.03 MeV, analyzing power from elastic, (E), 25:48019
scattering by helium-4 at 70 and 30 MeV, proton polarization from elastic, (E), 24:15777
scattering by helium-4 at 70 and 80 MeV using polarized beams, analyzing power and phase-shift analysis of elastic, (E), 23:28235
scattering by helium-4 at 8 to 38 MeV, resonating-group calculations of phase shifts, differential cross sections, polarizations, and spin-rotation parameters for elastic, (T), 25:14880 (COO-1764-105)
scattering by helium-4 at high energies, multiple diffraction theory for, (T), 22:17974
scattering by helium-4 below 22 MeV, phase shifts calculated from one-term nonlocal separable potentials for elastic, (T), 25:20261
scattering by helium-4 below 22 MeV, phase-shift analysis by nonlocal potentials of elastic, (T), 24:28826 (LYCEN-7015)
scattering by helium-4 below 50 MeV, analysis using nonlocal separable potential, (T), 25:56852
scattering by helium-4, analysis using separable nonlocal potential, (T), 25:56642 (LYCEN-7104, C5.1-15)
scattering by helium-4, carbon-12, and oxygen-16 at 1 GeV, nuclear structure from, (E/T), 21:31733
scattering by helium-4, cross section calculations using Glauber theory with spin effects for elastic, (T), 23:46911
scattering by helium-4, Glauber model for nuclear structure from elastic, 21:29869
scattering by helium-4, optical-model calculations for elastic, (T), 21:4338
scattering by helium-4, phase-shift analysis of, (T), 21:31838 (RHEL/R-136, pp 89-130)
scattering by helium-4, scintillation counter study of differential cross sections for backward elastic, (E), 23:30700(T) (SLAC-Trans-95)
scattering by hydrogen at 0 to 25 MeV, calculation of phase shifts using nonlocal separable potentials for elastic, (T), 25:31186 (LYCEN-7089)
scattering by hydrogen at 10 and 15 MeV, polarization angular distribution in, (T), 23:3936
scattering by hydrogen at 20 MeV, polarization asymmetry in, (E), 22:20438
scattering by hydrogen at 40 to 250 keV, charge transfer cross sections for, (E), 21:612
scattering by hydrogen at 50 MeV, spin correlation parameters from, (E), 22:26806
scattering by hydrogen at 52 MeV, differential cross section for, (E), 22:26805
scattering by hydrogen at 6 to 10 MeV, phase-shift analysis of angular distributions for elastic, (E), 22:53087
scattering by hydrogen at 65 MeV, bremsstrahlung from, (E), 24:52566(R) (ORNL-4534)
scattering by hydrogen at 74, 98, and 143 MeV using polarized protons, spin-correlation parameter for, (E), 22:11898
scattering by hydrogen at 98 MeV, differential cross sections and polarization for, (T), 22:37285
scattering by hydrogen atoms at 10^{-5} to 5 eV, phase shifts for, (T), 24:12650
scattering by hydrogen atoms at low energies, large-angle, (T), 25:14029
scattering by hydrogen atoms up to 500 eV, differential cross sections for elastic, (T), 24:17680
scattering by hydrogen atoms, calculation of wave functions and Green functions in eikonal approximation for, 24:8349
scattering by hydrogen atoms, calculation using Sturmian representation of effect of continuum on, 22:52512
scattering by hydrogen atoms, impact parameter representation for, 22:29769
scattering by hydrogen, calculation using Sturmian representation, 22:26254
scattering by hydrogen, calculation using variable effective charge, 22:29187
scattering by hydrogen, coupled-state calculation of cross sections for, using pseudostate expansion, 24:35179
scattering by hydrogen, resonances in, (T), 21:7021
scattering by hydrogen-like atoms at high energies, local potential for relaxation of diabatic approximation for, 24:28096
scattering by indium-115, rhodium-103, silver-107, and silver-109 at 3.5, 4.0, and 4.5 MeV, γ spectra from inelastic, (E), 22:27152
scattering by iodine-127 at 3.5 to 5 MeV with Coulomb excitation, γ spectra for inelastic, (E), 23:15489
scattering by iodine-127 at 4 to 5 MeV with Coulomb excitation, γ spectra from inelastic, (E), 22:32650
scattering by iron at 11.66 MeV, partial-wave theory for elastic, 21:34055
scattering by iron, implantation-perturbed angular correlation population of iron-54 and iron-56 levels by, (E), 23:39559
scattering by iron-54 and -56 and lead-208, nickel-58, and tin-120 at 30.3 MeV, asymmetries and differential cross sections for polarized inelastic, (E/T), 24:52518
scattering by iron-54 and -56 at 19.6 MeV, differential cross sections and proton spin-flip probability for inelastic, (E), 24:13333
scattering by iron-54 and -56 at 19.6 MeV, γ—γ angular correlations and spin-flip probability for inelastic, (E), 25:5673
scattering by iron-54 and -56 at 19.6 MeV, p—γ coincidence spectra and spin-flip probabilities for inelastic, (E), 23:42871 (UCRL-18902)
scattering by iron-54 and -56 at 9.6 MeV, optical-model analysis of elastic, (E/T), 25:56699
scattering by iron-54 and iron-56 at 19.6 MeV using polarized beams, asymmetry, cross sections, and spin-flip probabilities for inelastic, (E), 23:52120 (UCRL-18667, pp 65-132)
scattering by iron-54 and molybdenum-92 near 20 MeV, excitation functions for elastic and inelastic, (E), 25:25724(R) (RLO-1388-121)
scattering by iron-54 and nickel-60 at 10 MeV, coupled-channels and statistical-model analyses of proton spin-flip probability in inelastic, (E/T), 25:53701
scattering by iron-54 and nickel-60 at 10 MeV, differential cross sections, polarizations, and p—γ angular correlations for elastic and inelastic, (E), 25:3613
scattering by iron-54 and silicon-28, doorway-state effects in elastic, (T), 24:38310
scattering by iron-54 at 1.7 to 3.2 MeV, proton spectra from elastic, (E), 24:10979
scattering by iron-54 at 10 MeV, p—γ angular correlations for inelastic, (E), 23:42871 (UCRL-18902)
scattering by iron-54 at 10 MeV, p—γ angular correlations from inelastic, (E), 25:5673
scattering by iron-54 at 19.6 MeV, DWBA analysis of spin dependence in inelastic, (E/T), 25:36708
scattering by iron-54 at 2.56 MeV, γ—γ angular correlations for inelastic, (E), 23:37183
scattering by iron-54 at 30 MeV, differential cross sections and polarizations for, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by iron-54 at 30 MeV, polarization for inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by iron-54 at 30.4 MeV, differential cross sections and polarizations for inelastic, (E), 21:27541
scattering by iron-54 at 40 MeV, asymmetry and differential cross section for excitation of the first 2^+ level in inelastic, (T), 23:37299
scattering by iron-54 at 49.35 MeV, angular distribution for 11 excited states in inelastic, (E/T), 25:17844
scattering by iron-54 at 5.15 MeV, energy levels from inelastic, (E), 21:31738 (TID-23854)
scattering by iron-54 at 6.6 MeV, angular distributions and γ triple angular correlations for inelastic, (E), 24:15821
scattering by iron-54 at 9 MeV, γ angular distributions and spectra for inelastic, (E), 22:39638 (UCRL-17989, pp 1-41)
scattering by iron-54, -56, and -58 at 1.8 to 3.3 MeV, differential cross sections for, (E), 25:34055
scattering by iron-54, isobaric analog resonances in elastic and inelastic, (E), 22:27053
scattering by iron-54, nickel-58, nickel-60, and silicon-28 at 40 MeV, differential cross sections and polarization in elastic and inelastic, (E), 21:17322 (ORNL-TM-1753)
scattering by iron-54, nickel-58, nickel-60, and silicon-28 at 40 MeV using polarized protons, left-right asymmetry and differential cross sections for inelastic, (E), 22:3650
scattering by iron-54, nickel-58, nickel-60, and silicon-28 at 40 MeV using polarized protons, left-right asymmetry and differential cross sections for inelastic, (E), 22:35273
scattering by iron-56 at 11 MeV, proton spectra from inelastic, (E), 21:33901 (ANL-7289)
scattering by iron-56 at 2 to 6 MeV, structures due to isobaric analog states in elastic and inelastic, (E/T), 24:40593
scattering by iron-56 at 3.7 to 4.3 MeV, angular distributions for elastic, (E), 25:20336
scattering by iron-56 at 4.8 to 6.0 MeV, γ angular distributions and spectra for inelastic, (E), 22:27195
scattering by iron-56 at 4.8 to 6.0 MeV, γ angular distributions from inelastic, (E), 22:32558
scattering by iron-56 at 4.80 to 5.95 MeV, inelastic, (E), 21:15513 (CONF-660221-, pp 98-103)
scattering by iron-56 at 4.9 and 5.5 MeV, γ-γ triple correlations in inelastic, (E), 23:7274
scattering by iron-56 at 49.35 MeV, angular distributions for, (E), 25:25696
scattering by iron-56 at 5 to 6 MeV, angular distributions and spin-flip angular correlations for inelastic, (E), 23:52137
scattering by iron-56 at 6 and 7 MeV, γ and proton spectra from inelastic, (E), 21:38275
scattering by iron-56 at 6 to 7 MeV, energy levels from inelastic, (E), 21:35455
scattering by iron-56 at 8.6 to 10.6 MeV, excitation functions for elastic and inelastic, (E), 22:20503
scattering by iron-56 at 9 to 11.9 MeV, statistical model analysis of fluctuations in elastic and inelastic, (E/T), 24:1787
scattering by iron-56 at 9 to 12 MeV, excitation function for elastic, (E), 21:1056
scattering by iron-56 in polarized iron, γ angular correlation and distribution for inelastic, (E), 22:13968
scattering by iron-56, -57, and -58 at 22.5 MeV, angular momentum transfers for, (E/T), 22:9800(R) (COO-535-571)
scattering by iron-56, energy levels from inelastic, (E), 21:9987
scattering by iron-56, iron-57, and iron-58 at 22.5 MeV, elastic and inelastic, (E), 21:11991(R) (UCOL-535-561)
scattering by iron-56, lead-208, nickel-58, and tin-120 at 30.3 MeV, using polarized beam, collective-model analysis using folding procedure, (T), 25:38937
scattering by iron-58 at 49.4 MeV, DWBA analysis of angular distributions for inelastic, (E), 25:43840
scattering by iron-58 at 6.5 and 6.9 MeV, γ spectra and angular distributions for elastic, 24:3904
scattering by isospin-dependent local Lane potential, amplitudes for elastic, (T), 23:23781
scattering by krypton at 3.6 to 5.4 MeV, angular distributions for elastic and inelastic, (E), 22:35293(R) (ORNL-4230)
scattering by krypton at 3.6 to 5.4 MeV, differential cross sections and excitation functions for elastic and inelastic, (E), 24:13342
scattering by krypton at 3.6 to 5.4 MeV, excitation functions and resonance parameters for elastic and inelastic, (E), 23:39976(R) (ORNL-4395)
scattering by krypton-86 at 4.6 to 10 MeV, isobaric analog resonances in elastic and inelastic, (E), 23:19253(R) (ORO-2972-80)
scattering by krypton-86 at 4.8 to 10.1 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 25:28242
scattering by lanthanum-139 at 12 to 16 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 25:45948 (CEA-N-1390, pp 1-90)
scattering by lanthanum-139 at 9 to 12 MeV, excitation functions for elastic and inelastic, (E), 23:49387 (CEA-CONF-1322)
scattering by lanthanum-139 at 9.5 to 12.1 MeV with isobaric analog excitation, excitation function for inelastic, (E), 24:43448
scattering by lead at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by lead at 338 MeV, multiple, (T), 21:11987 (ISS-66/26)

scattering by lead isotopes at 11.5 to 16.5 MeV, isobaric analog resonances in elastic and inelastic, (E), 21:38301(R) (RLO-1388-13)
scattering by lead isotopes at 14.0 to 16.5 MeV, isobaric analog resonances in, (E), 21:25521
scattering by lead isotopes, isobaric analog resonances in elastic and inelastic, (E/T), 21:21544
scattering by lead-203 at 155 MeV, cross sections and polarization for elastic and inelastic, (E), 23:37252
scattering by lead-204, -206, -207, and -208, isobaric analog resonances in, (E), 22:20633
scattering by lead-204, lead-206, and lead-207 at 10 to 16 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:27097
scattering by lead-204, lead-206, and lead-207 at 11 to 16 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:27228
scattering by lead-204, lead-206, and lead-208 at 14 to 16 MeV, isobaric analog resonances in elastic, (E), 22:27215
scattering by lead-204, lead-206, lead-208, samarium-144, and zirconium-90, isobaric analog resonances in elastic, (E), 22:39653
scattering by lead-206 and -208 at 12 to 22 MeV, particle—core excitations in, (E/T), 22:22597
scattering by lead-206 and lead-207, excitation functions for elastic and inelastic, (E), 21:25524
scattering by lead-206 and lead-208 at 16 to 18 MeV, isobaric analog resonance spin determination by polarization measurements, (E), 23:21353
scattering by lead-206 at 11.5 to 16.5 MeV, isobaric analog resonances in elastic and inelastic, (E), 21:38301(R) (RLO-1388-13)
scattering by lead-206 at 14.40 and 14.935 MeV, angular distributions from inelastic, (E), 24:13359
scattering by lead-206 at 24.5 MeV, angular distributions from inelastic, (E), 21:27615
scattering by lead-206, -207, and -208 at 24.5 MeV, angular distributions for inelastic, (E), 22:27098
scattering by lead-206, isobaric analog resonances in inelastic, (T), 22:42061
scattering by lead-206, isobaric analog resonances in, (E), 22:42035
scattering by lead-206, lead-207, and lead-208 at 25 MeV, angular distributions for inelastic, (E), 23:1874 (CEA-R-3500)
scattering by lead-207 and lead-208 at 24.5 MeV, angular distributions for inelastic, (E), 22:20623
scattering by lead-207 at 11 to 12.5 MeV with isobaric analog excitation, microscopic description of inelastic, (T), 24:43442
scattering by lead-207 at 11.4 MeV, spectroscopic factors for 0° analog resonances in elastic and inelastic, (E), 22:30094
scattering by lead-207 at 14 to 15 MeV, with isobaric analog resonance excitation, excitation functions for inelastic, (E), 23:8997
scattering by lead-207 at 14 to 18 MeV with isobaric analog excitation, excitation functions for inelastic, (E), 23:47015
scattering by lead-207 at 14 to 18 MeV with isobaric analog excitation, excitation functions for, (E), 25:28365
scattering by lead-207 at 14 to 18 MeV, γ spectra from inelastic, (E), 24:43421
scattering by lead-207 at 20 MeV, differential cross sections for inelastic, (E), 22:50627
scattering by lead-207 at 20.2 MeV to $^{3}/_{2}^{-}$ state, distorted-wave analysis using central, tensor, and core-polarization interactions of differential cross sections from inelastic, (T), 25:5780
scattering by lead-207 at 20.2 MeV, core polarization in inelastic, (T), 24:43410
scattering by lead-207 with excitation of isobaric analog resonances, analysis using Robson theory, (T), 23:15471
scattering by lead-207 with isobaric analog excitation, model analysis of elastic and inelastic, (T), 24:30938
scattering by lead-207, gamma spectra from, (E), 24:47642
scattering by lead-207, interpretation of isobaric analog resonances as collective effect of strong channel coupling, (T), 23:7295
scattering by lead-207, isobaric analog resonances in, (E), 23:7324
scattering by lead-208 at 14 to 18 MeV with excitation of isobaric analog resonances, excitation functions for, (E), 23:15445
scattering by lead-208 at 14 to 18 MeV, angular distributions for, (E), 23:52156
scattering by lead-208 at 14 to 18 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:14040
scattering by lead-208 at 14 to 18 MeV, proton spectra for inelastic, (E), 22:9903
scattering by lead-208 at 14 to 18 MeV, widths of isobaric analog resonances in, (E), 22:29998
scattering by lead-208 at 14.2 to 18.2 MeV, bismuth-209 isobaric analog energy levels from, (E), 21:13796(R) (ORO-2972-25)
scattering by lead-208 at 14.2 to 18.2 MeV, isobaric analog resonances in elastic and inelastic, (E), 21:19245 (ORO-2972-7)
scattering by lead-208 at 14.2 to 18.8 MeV, differential cross sections for elastic and inelastic, (E), 22:20631
scattering by lead-208 at 14.5 to 15.4 MeV using polarized beams, analyzing power for inelastic, (E), 25:5506 (CEA-N-1232, pp 81-159)
scattering by lead-208 at 14.85 to 15.05 MeV using polarized beams, analyzing power for elastic and inelastic, (E), 24:38281
scattering by lead-208 at 15 MeV, cross-section angular distributions and proton spectra for, (E), 22:9882
scattering by lead-208 at 15 to 18 MeV, proton spectra for inelastic, (E), 22:11949(R) (ORO-2972-47)
scattering by lead-208 at 18 to 24 MeV, excitation functions for inelastic, (E), 23:52109(R) (RLO-1388-96)
scattering by lead-208 at 30 and 40 MeV, polarization in elastic, (T), 23:28338
scattering by lead-208 at 30 MeV, polarization for elastic, (E), 23:30923(R) (RHEL/R-170)
scattering by lead-208 at 30 to 60 MeV, optical model analysis of elastic, (T), 25:53838
scattering by lead-208 at 61.4 MeV, differential cross sections for elastic, (E), 21:27559
scattering by lead-208 through isobaric analog resonances, method analog resonances, method for cross-section analysis, (T), 22:11949(R) (ORO-2972-47)
scattering by lead-208 with isobaric analog excitation, microscopic shell-model description of, (T), 24:11044
scattering by lead-208 with isobaric analog excitation, angular distributions and excitation functions for elastic and inelastic, (E), 25:43907
scattering by lead-208 with isobaric analog resonance excitation, angular distribution for inelastic, (T), 22:35297
scattering by lead-208 with isobaric analog resonance excitation, γ spectra from inelastic, (E), 22:44709
scattering by lead-208, cross sections for inelastic, 24:52629
scattering by lead-208, isobaric analog resonances in elastic, (T), 22:7762
scattering by lead-208, oxygen-18, yttrium-89, zirconium-90, and zirconium-92, effective nucleon—nucleon interaction for distorted-wave analysis of inelastic, (T), 23:1933 (TID-24733)
scattering by lead-208, samarium-144, and zirconium-90, proton polarization in elastic, (E), 22:20629
scattering by lead-210 at 20.5 MeV, differential cross sections for inelastic, (E), 25:17905
scattering by light nuclei at 100 MeV, optical-model analysis of elastic, (T), 23:3962
scattering by light nuclei at 600 MeV, eikonal and multiple-scattering analysis of elastic and inelastic, (E/T), 25:38876
scattering by light nuclei below 3 MeV, review of experiments on elastic, 24:28712
scattering by light, medium, and heavy nuclei at 20 GeV, N + N correlations in, (E/T), 22:5499 (INP-567/PL/PH)
scattering by light-weight nuclei, computer measurement of excitation function for inelastic, (E), 22:18150
scattering by light-weight nuclei, excitation of collective levels by, (T), 21:29902
scattering by lithium, beryllium, and carbon at high energies, cross section calculations for, (T), 23:40122
scattering by lithium-6 and -7 and beryllium-9 at 49.75 MeV, differential cross sections and polarization measurements for elastic, (E), 25:25645
scattering by lithium-6 and -7 at 50 MeV, spectra for inelastic, (E), 22:5767
scattering by lithium-6 and -7 at 6.868 MeV, absolute cross section for elastic, (E), 25:56670
scattering by lithium-6 and lithium-7 at 2 to 9 MeV, angular distributions and excitation functions for elastic and inelastic, (E), 23:44829 (CEA-R-3727)
scattering by lithium-6 and lithium-7 at 50 MeV, angular distributions and polarization in, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by lithium-6 at 0.49 to 2.86 MeV, differential cross sections for elastic, (E/T), 21:23416
scattering by lithium-6 at 1.2 to 3.2 MeV, phase shift analysis of proton polarization in elastic, (E/T), 23:28249
scattering by lithium-6 at 14 to 16 MeV, differential and total cross sections for elastic and inelastic, (E), 23:23632
scattering by lithium-6 at 185 MeV, impulse approximation analysis of elastic and inelastic, (E), 25:7811
scattering by lithium-6 at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by lithium-6 at 24 MeV, differential cross section for inelastic, (E), 22:53126
scattering by lithium-6 at 24 to 46 MeV, spin—isospin-dependent interaction in, (E), 23:15365
scattering by lithium-6 at 3.60 to 9.40 MeV, beryllium-7 energy levels from inelastic, (E), 21:7704
scattering by lithium-6 at 4.26 to 9.40 MeV, beryllium-7 energy levels from inelastic, (E), 21:7703
scattering by lithium-6 at 665 MeV at 169°, upper limit for cross sections of elastic, (E), 25:25300
scattering by lithium-6 at 665 MeV, recoil spectra and differential cross section for backward elastic, (E), 24:24503 (JINR-P1-4876)
scattering by lithium-6, beryllium-7 energy-level spins and widths from, (E), 21:17315
scattering by lithium-6, comparison of approximations of the collision matrix for, (T), 24:13286
scattering by lithium-6, cross sections and resonance parameters for elastic, (T), 22:44609
scattering by lithium-6, nitrogen-14, and zirconium-90, approximate G-matrix calculations for inelastic, (T), 25:59858
scattering by lithium-7 at 11.16 to 11.76 MeV, yield curves for elastic and inelastic, (E), 23:1929(R) (COO-1265-67)
scattering by lithium-7 at 185 MeV, shell-model calculations for inelastic, (T), 21:9937
scattering by lithium-7 at 2 to 10 MeV, angular distributions and excitation functions for elastic and inelastic, (E), 22:37340(R) (EANDC(E)-89(U))
scattering by lithium-7 at 2.7 to 10.6 MeV using polarized beams, differential cross sections and analyzing powers for elastic and inelastic, (E), 23:19194
scattering by lithium-7 at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by lithium-7 at 23 to 52 MeV, cross section and γ spectra for inelastic, (E/T), 22:3622
scattering by lutetium-175 at 3 MeV, Moessbauer effect following Coulomb excitation by inelastic, (E), 25:15040
scattering by magnesium-24 and magnesium-26 at 30.5 MeV, elastic and inelastic, (E/T), 21:7688(R) (USC-136-114)
scattering by magnesium-24 and silicon-28 at 100 MeV, angular distributions for inelastic, (E), 23:49360
scattering by magnesium-24 and silicon-28 at 5.8 to 6.0 MeV, isospin-forbidden analog resonances in, (E), 22:18163
scattering by magnesium-24 and silicon-28 at 55 MeV, angular distributions for spin-flip inelastic, (E), 22:27014
scattering by magnesium-24 and silicon-28 with excitation of isospin-forbidden resonances, cross sections for elastic and inelastic, (E), 23:7275
scattering by magnesium-24 and silicon-28 with excitation of isobaric analog resonances, excitation functions for elastic and inelastic, (E), 23:25878
scattering by magnesium-24 and zinc-64 at 50 MeV, asymmetry and polarization in elastic and inelastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by magnesium-24 and zirconium-92 at 20 MeV using polarized beam, DWBA collective model analysis using Thomas spin-dependent optical potential for inelastic, (T), 23:5850
scattering by magnesium-24 at 185 MeV, polarization in elastic and inelastic, (E), 23:1838
scattering by magnesium-24 at 2.7 to 4.1 MeV, polarization in elastic, (E), 24:3855
scattering by magnesium-24 at 2.9 to 4.3 MeV, angular distributions for inelastic, (E), 24:49793
scattering by magnesium-24 at 3 to 4 MeV, polarization in elastic, (E), 23:37168
scattering by magnesium-24 at 4.5 to 9.8 MeV, optical-model calculation of Wolfenstein parameters for, (T), 24:35850
scattering by magnesium-24 at 4.8 to 5.3 MeV, p-γ angular correlations for inelastic, (E), 24:1790
scattering by magnesium-24 at 49.5 MeV, analysis using deformed spin-orbit potential, (T), 24:43570
scattering by magnesium-24 at 49.5 MeV, asymmetry for excitation of the first 2^{+} level in inelastic, (T), 23:37299
scattering by magnesium-24 at 49.5 MeV, differential cross sections for elastic and inelastic, (E/T), 22:3676
scattering by magnesium-24 at 50 MeV, collective-model analysis using distorted-wave and strong-coupling approximations, (E/T), 22:44655
scattering by magnesium-24 at 6 to 10 MeV, angular distributions of polarization in elastic and inelastic, (E), 25:1728
scattering by magnesium-24, -25, and -26 at 5.84 to 6.03 MeV, angular distributions and spectra from elastic and inelastic, (E), 25:28264
scattering by magnesium-24, angular distribution of polarization from, (E), 21:23477
scattering by magnesium-24, chronium-52, and nickel-58 at 5 to 6 MeV, excitation functions and proton polarization for, (E), 25:5632
scattering by magnesium-24, magnesium-26, and silicon-28 at 20.3 MeV, coupled-channel analysis of polarized inelastic, (E/T), 25:17825
scattering by magnesium-24, zinc-64, and zinc-68 at 50 MeV, asymmetry and polarization angular distributions in elastic and inelastic, (E), 21:42587
scattering by magnesium-24, zirconium-90, and -92 using polarized beams, coupled-channel analysis of, (T), 23:52172 (UCRL-18667, pp 133-67)
scattering by magnesium-25 and magnesium-26 at 3.8 to 8.3 MeV, inelastic, (E), 21:17318(R) (AECL-2659)
scattering by magnesium-25 at 3.8 to 7.0 MeV, γ spectra from inelastic, (E), 22:50587
scattering by magnesium-25 at 4 to 7 MeV, γ spectra from inelastic, (E), 21:40473(R) (PR-P-74)
scattering by magnesium-25 at 4.0 to 5.2 MeV, γ Doppler-shift attenuation in inelastic, (E), 22:32513(R) (ANU-P-400)
scattering by magnesium-25 at 4.6 to 5.2 MeV, gamma angular correlations and coincidence spectra from inelastic, (E), 21:33903 (NP-16747)
scattering by magnesium-25 at 4.6 to 5.2 MeV, γ angular distributions and γ-γ angular correlations for inelastic, (E), 22:26936
scattering by magnesium-25 at 4.625 MeV, cross sections for inelastic, (E), 23:49369
scattering by magnesium-25 at 6 MeV, optical-model calculations of differential cross sections for elastic, (T), 21:44562 (ZFK-122, pp 71-94)
scattering by magnesium-25 at 6 MeV, proton polarization from elastic and inelastic, (E), 24:30725
scattering by magnesium-25, angular distributions and p-γ coincidences from inelastic, (E), 21:29880(R) (ANU-P-379)
scattering by magnesium-25, γ-γ and p-γ angular correlations from inelastic, (E), 21:38280
scattering by magnesium-26 at 0.85 to 4.58 MeV, differential cross sections for elastic, (E), 22:50577
scattering by magnesium-26 at 1 to 2 MeV, dissertation summary on elastic, (E), 22:42007
scattering by magnesium-26 at 1.2 to 3 MeV, differential cross sections for inelastic, (E), 24:35849
scattering by magnesium-26 at 2.3 to 3.0 MeV, aluminum-27 energy levels from, (E), 21:7756
scattering by magnesium-26 at 2.7 to 3.2 MeV, γ-ray excitation functions for inelastic, (E), 25:38887 (JAERI-1205, pp 87-90)
scattering by magnesium-26 at 20.3 MeV using polarized beam, coupled channel analysis of inelastic, (E/T), 25:45912 (CEA-N-1390, pp 91-137)
scattering by magnesium-26 at 3 to 3.6 MeV, γ spectra and angular distributions for inelastic, (E), 23:46951
scattering by magnesium-26 at 3.8 to 8.3 MeV, γ Doppler-shift attenuation in inelastic, (E), 22:35262
scattering by magnesium-26 at 6.8 MeV, γ-γ angular correlations for inelastic, (E), 22:11944(R) (AECL-2780)

scattering by magnesium-26 at 8.3 to 14 MeV, analysis of compound and direct reaction mechanisms in inelastic, (E/T), 22:15980
scattering by magnesium-26 to 2.3 to 3.0 MeV, γ angular distributions and spectra from, (E), 21:44637
scattering by magnesium-26, angular distributions for inelastic, (E), 21:23477
scattering by magnesium-26, γ Doppler shifts in inelastic, (E), 22:26932(R) (NP-17434)
scattering by magnesium-26, γ spectra from inelastic, (E) , 21:40473(R) (PR-P-74)
scattering by magnesium-26, triple angular correlations in inelastic, (E), 22:20497(R) (AECL-3009)
scattering by manganese-55 and vanadium-51, isobaric analog resonances in elastic, (E), 22:27052
scattering by manganese-55 at 1 MeV with excitation of isobaric analog resonances, excitation function for elastic, (E), 23:21293 (ZFK-130, pp 96-9)
scattering by manganese-55 at 17.5 MeV, angular distributions for inelastic, (E), 22:50575
scattering by manganese-55 at 8, 9, and 10 MeV, proton spectra from, (E), 21:38285
scattering by manganese-55 at 8.2 to 9.6 MeV, excitation functions for elastic and inelastic, (E), 22:20503
scattering by manganese-55 below 2.5 MeV, angular distribution of γ rays from inelastic, (E), 24:47629
scattering by medium and heavy nuclei of zero spin, polarization and differential cross section measurements of, (E/T), 22:36154
scattering by medium-A nuclei at 6.9 MeV, optical-model analysis of angular distributions from elastic, (E) , 25:28262
scattering by medium-weight nuclei at 155 MeV, inelastic, (E), 21:7739
scattering by medium-weight nuclei at 18.6 MeV, optical-model and coupled-channel calculations for polarized, (T), 22:16088
scattering by molybdenum, nickel, and platinum at 2 to 40 keV, charge states and energy distributions from, (E), 24:10368
scattering by molybdenum-92 and zirconium-90 with isobaric analog resonance excitation, differential cross sections for inelastic, (E), 23:19253(R) (ORO-2972-80)
scattering by molybdenum-92 at 10 MeV, 21:2707 (ORNL-3994, pp 1-26)
scattering by molybdenum-92 at 5.5 to 8.2 MeV, gamma and proton spectra from inelastic, (E), 24:6945
scattering by molybdenum-92 at 5.8 to 6.6 MeV, excitation functions for inelastic, (E), 23:28316
scattering by molybdenum-92 at 8 MeV with excitation of isobaric analog resonances, γ spectra for inelastic, (E), 23:5910
scattering by molybdenum-92 at 9.25 MeV, γ spectra from inelastic, (E), 21:46723 (ORNL-4164, pp 1-23)
scattering by molybdenum-92 with isobaric analog resonance excitation, γ angular distributions for inelastic, (E), 23:19253(R) (ORO-2972-80)
scattering by molybdenum-92, -94, -96, -98, and -100 at 15 MeV, coupled-channel analysis of elastic and inelastic, (E), 25:56774
scattering by molybdenum-92, -94, -96, -98, and -100 at 14.5 MeV, angular distributions for elastic and inelastic, (E), 24:52563(R) (NP-18217)
scattering by molybdenum-92, excitation functions for elastic, (E), 25:36676
scattering by molybdenum-92, molybdenum-94, strontium-88, tin-118, tin-120, and zirconium-92 at 4 to 12 MeV, polarization in elastic, (E), 25:20331
scattering by molybdenum-92, zirconium-90, and zirconium-92 at 20 MeV using polarized beams, asymmetries for elastic and inelastic, (E), 24:1864
scattering by molybdenum-98 at 11 to 14 MeV, isospin coupling in elastic and inelastic, (E), 23:15433 (RLO-1388-86)
scattering by molybdenum-98 at 11 to 14 MeV, isospin coupling in, (E), 23:15475
scattering by molybdenum-98 at 5 to 12 MeV, angular distributions for elastic, (E), 23:19253(R) (ORO-2972-80)
scattering by molybdenum-98 at 6 to 8 MeV with isobaric analog excitation, excitation functions and angular distributions for elastic and inelastic, (E), 24:24576
scattering by molybdenum-98, zirconium-90, and zirconium-96 at 6 to 8.5 MeV with internal conversion transitions from isobaric analog states, excitation functions for inelastic, (E), 24:22188
scattering by neodymium-142 at 9 to 11 MeV with excitation of isobaric analog resonances, excitation functions and polarization for elastic, (E), 23:21334 (ZFK-130, pp 104-7)
scattering by neodymium-142 at 9 to 11.4 MeV, excitation functions for elastic and inelastic, (E), 24:26654
scattering by neodymium-142 at 9 to 11.4 MeV, excitation function for elastic, (E), 21:25528
scattering by neodymium-142 at 9 to 12 MeV using polarized protons, isobaric analog resonances in, (E), 22:27214
scattering by neodymium-142 at 9.3 to 10.5 MeV, proton spectra and angular distributions for inelastic, (E), 24:40632
scattering by neodymium-142 at 9.3 to 11.3 MeV, spins of p-, f-, and h-wave levels in neodymium-143 from polarized elastic, (E), 22:7728
scattering by neodymium-142 at 9.4 to 11.4 MeV, isobaric analog resonances in inelastic, (E), 21:25529
scattering by neodymium-142 at 9.5 to 11.5 MeV, excitation function for elastic, (E), 21:25520
scattering by neodymium-144 at 9.2 to 11.1 MeV, isobaric analog resonances in inelastic, (E), 21:25529
scattering by neon at 5.71 eV, analysis of experimental differential cross sections for elastic, (T), 25:52636
scattering by neon-20 and -22 at 24.5 MeV using polarized beam, asymmetry and deformation parameters for inelastic, (E), 25:53718
scattering by neon-20 and -22 at 40 MeV, differential cross sections for elastic, (E), 25:56704
scattering by neon-20 and neon-22 at 40 MeV, angular distributions for elastic and inelastic, (E), 23:1929(R) (COO-1265-67)
scattering by neon-20 at 1.1 to 2.0 MeV, excitation functions for elastic, (E), 23:8971
scattering by neon-20 at 1.17 MeV, atomic perturbations in elastic, (T), 23:23756 (ORO-2408-10)
scattering by neon-20 at 1.5 to 2.4 MeV, proton polarization in elastic, (E), 25:1733
scattering by neon-20 at 2.5 and 2.8 MeV, angular distributions for elastic and inelastic, (E), 23:39996
scattering by neon-20 at 24.5 MeV using polarized beams, analyzing power for inelastic, (E), 25:7808 (UCRL-19530, pp 53-106)
scattering by neon-20 at 24.5 MeV, coupled-channel analysis of inelastic, (E/T), 23:46947
scattering by neon-20 at 3.9 to 5.1 MeV, differential cross sections and polarizations for, (E), 21:23451
scattering by neon-20 at 3.9 to 5.1 MeV, differential cross section and polarization for elastic, (E), 21:44602 (UJV-1596)
scattering by neon-20 at 4.0 to 5.5 MeV, sodium-21 energy levels from polarized, (E), 21:44603 (ZFK-122, pp 176-82)
scattering by neon-20 at 4.3 to 5.1 MeV, polarization angular distributions from, (E), 21:21498
scattering by neon-20 at 5.2 to 6.2 MeV, compensation effect in excitation functions for elastic and inelastic, (E), 21:23477
scattering by neon-20 at 6.8 to 7.3 MeV, angular distributions and excitation functions for elastic, (E), 24:6854
scattering by neon-20, -21, and -22 at 40 MeV, differential cross sections for inelastic, (E), 25:56704
scattering by neon-21 at 1 to 3 Mev, neon-21 and sodium-22 energy levels from, (E), 21:2664
scattering by neon-22 at 0.6 to 3.1 MeV, excitation functions for elastic and inelastic, (E), 22:20578 (WASH-1079)
scattering by neon-22 at 0.8 to 3.1 MeV with isobaric analog excitation, cross section for elastic, (E), 23:39979
scattering by neon-22 at 0.8 to 3.1 MeV, excitation functions for elastic, (E), 23:15367
scattering by neon-22 at 0.94 to 4.20 MeV, excitation functions for elastic and inelastic, (E), 21:15538
scattering by neon-22 at 1.9 to 3.4 MeV, resonances in inelastic, (E), 21:44622
scattering by neon-22 at 2.0 to 3.1 MeV, excitation functions for inelastic, (E), 23:15367
scattering by neon-22 at 2.4 to 3.2 MeV, angular distributions, excitation functions, and spectra from elastic and inelastic, (E), 25:31281
scattering by neon-22 at 2.4 to 3.2 MeV, differential cross sections for elastic and inelastic, (E), 25:17762
scattering by neon-22 at 22 MeV, spectra for inelastic, (E), 23:30981
scattering by neon-22 at 3.6 to 14 MeV, angular distributions for inelastic, (E), 23:13241
scattering by neon-22, resonances in elastic and inelastic, (E), 22:22560(R) (ORO-1067-2)
scattering by nickel at 14.6 MeV, momentum spectrum from, (E), 21:33963(R) (NP-16498)
scattering by nickel isotopes at 11 and 11.5 MeV, inelastic, (E), 21:27551
scattering by nickel isotopes at 6.0 to 6.5 MeV, inelastic, (E), 21:2682
scattering by nickel isotopes, copper-isotope isobaric analog states from inelastic, (E), 21:2665
scattering by nickel-58 and -60 at 40 MeV, coupled-channel analysis of inelastic, (E), 24:22117
scattering by nickel-58 and -60 at 40 MeV, differential cross sections for elastic and inelastic, (E/T), 22:1598(R) (COO-1265-49)
scattering by nickel-58 and nickel-60 at 16 MeV, angular distributions for elastic, (E), 23:1929(R) (COO-1265-67)
scattering by nickel-58 and nickel-60 at 40 MeV, asymmetry, differential cross section, and spin-flip probability for excitation of the first 2^+ levels in inelastic, (T), 23:37299
scattering by nickel-58 and nickel-60 at 40 MeV, coupled-channel analysis of inelastic, (T), 23:1929(R) (COO-1265-67)
scattering by nickel-58 and nickel-60 at 40 MeV, coupled-channel analysis of inelastic, (E/T), 24:52533
scattering by nickel-58 at 10 MeV, angular distribution for elastic, (E), 23:1929(R) (COO-1265-67)
scattering by nickel-58 at 12 MeV, proton and γ singles and coincidence spectra from, (E), 24:5409
scattering by nickel-58 at 12 MeV, proton and γ spectra from inelastic, (E), 25:5680 (CEA-N-1232, pp 1-80)
scattering by nickel-58 at 14.5 MeV, optical-model calculations for elastic, (T), 21:11991(R) (UCOL-535-561)
scattering by nickel-58 at 17.7 MeV, distorted-wave calculation of angular distributions from inelastic, (T), 25:34014
scattering by nickel-58 at 20 MeV, DWBA analysis of cross section and proton spin-flip probability for inelastic, (E/T), 23:15411
scattering by nickel-58 at 3 to 6 MeV, differential cross sections for elastic and inelastic, (E), 22:1625
scattering by nickel-58 at 5.38 to 5.95 MeV, polarization from elastic and inelastic, (E), 25:12433 (NP-18552)
scattering by nickel-58 at 61.4 MeV, differential cross sections for elastic, (E), 21:27559
scattering by nickel-58 at 7.0 MeV, e^+—e^- pair spectra from inelastic, (E), 25:53669
scattering by nickel-58 at 7.8 to 8.6, p-γ angular correlations from inelastic, (E), 25:17783
scattering by nickel-58 at 8 MeV, energy-level spins, multipolarities, and transition branching ratios from inelastic, (E), 22:1627
scattering by nickel-58 at 8 MeV, p-γ angular correlations in inelastic, (E), 22:27005
scattering by nickel-58 at 8.1 MeV, p—γ angular correlations from inelastic, (E), 25:5642
scattering by nickel-58 at 9 to 10 MeV, intermediate resonance parameters for elastic, (T), 22:27065
scattering by nickel-58 at 9, 11, and 15 MeV, spin-flip probability for inelastic, (E), 21:40429(R) (RLO-1388-23)
scattering by nickel-58, -60, -61, -62, and -64 at 6 MeV, optical-model analysis of elastic and inelastic, (T), 24:8874
scattering by nickel-58, -60, -62, and -64 and zinc-64, -66, and -68 at 39.6 MeV, cross-section and polarization measurements for elastic, (E), 25:3598
scattering by nickel-58, -60, -62, and -64 at 40 MeV, collective-model analysis of inelastic, (E/T), 24:24523
scattering by nickel-58, -60, -62, and F-64 at 1.8 to 3.3 MeV, differential cross sections for elastic, (E), 25:3628
scattering by nickel-58, -60, and -62 at 18 MeV, differential cross sections and polarization angular distributions for, (T), 21:38422
scattering by nickel-58, -60, and -62 at 6.0 to 6.5 MeV, polarization from inelastic, (E), 22:24844
scattering by nickel-58, -60, and tin-120 at 17.8 MeV, angular distributions for inelastic, (E), 21:46691
scattering by nickel-58, intermediate structure in inelastic, (E), 21:23534(R) (ANL-7246)
scattering by nickel-58, nickel-60, and nickel-62 at 40 MeV using polarized beams, polarization angular distributions for elastic, (E), 23:1929(R) (COO-1265-67)
scattering by nickel-58, nickel-60, nickel-62, and nickel-64 at 3 to 8 MeV with isobaric analog excitation, cross sections for, (E), 23:42873
scattering by nickel-58, nickel-60, silicon, copper-63, and copper-65 at 40 MeV, cross sections for, (E), 21:5435(R) (TID-23395)
scattering by nickel-58, silicon-28, and tin-120 at 30.4 MeV, optical analysis of angular distributions from elastic, (E), 25:41209
scattering by nickel-58, tin-120, and lead-208 at 40 MeV, optical potential for, (T), 23:37286 (COO-1051-33)
scattering by nickel-58, tin-120, lead-208 at 30.3 MeV, angular distributions, polarizations, and optical-model analysis of elastic, (E), 25:3636
scattering by nickel-60 at 10.5 MeV, spin flip in, (E), 21:38301(R) (RLO-1388-13)
scattering by nickel-60 at 11 MeV, differential cross sections for elastic, (T), 25:56789
scattering by nickel-60 at 13 MeV, spectroscopy of inelastic, (E), 22:29954
scattering by nickel-60 at 16.5 MeV using polarized protons, asymmetries in inelastic, (E), 22:9834
scattering by nickel-60 at 18 MeV, differential cross section for inelastic, (E/T), 22:7666
scattering by nickel-60 at 55 MeV, elastic and inelastic, (E/T), 21:7752
scattering by nickel-60 at 6 to 12 MeV, optical-model potentials for elastic, (T), 21:46826
scattering by nickel-60 at 6.8 MeV, γ spectra from inelastic, (E), 24:43236
scattering by nickel-60 at 62 MeV, differential cross sections for inelastic, (E/T), 21:33915
scattering by nickel-60, -62, and -64 at 1.8 to 3.3 MeV, differential cross sections for elastic, (E), 25:17841
scattering by nickel-60, nickel-64, zinc-66, and zinc-68 at 4.25 to 8.47 MeV, angular distributions and excitation functions for, (E), 25:20322
scattering by nickel-60, silicon-28, and titanium-46 at 21 MeV, angular distributions for elastic and inelastic, (E), 23:1848
scattering by nickel-61 at 7.5 MeV, angular distributions for inelastic, (E), 22:3649
scattering by nickel-62 and nickel-64 at 12 MeV, angular distributions and γ energies for inelastic, (E), 23:25883
scattering by nickel-62 and phosphorus-31 at 8.0 to 8.2 MeV, angular distributions for elastic, (E), 23:32909 (ANU-P-442)
scattering by nickel-62 at 14 MeV, angular distributions for inelastic, (E), 25:53663(R) (COO-1505-48)
scattering by nickel-62 at 14.3 MeV, angular distributions and spectra for inelastic, (E), 22:20544
scattering by nickel-62 at 2.4 to 2.7 MeV with isobaric analog excitation, excitation function for elastic, (E), 25:28237
scattering by nickel-62 at 8.0 to 8.05 MeV, angular distributions for elastic, (E), 23:28242(R) (ANU-P-434)
scattering by nickel-62 at 8.00 to 8.05 MeV, analysis of compound and direct processes from differential cross section measurements of elastic, (E), 23:40017
scattering by nickel-64 at 11 and 14 MeV, spin-flip probability for inelastic, (E), 21:40429(R) (RLO-1388-23)
scattering by nickel-64 at 3.1 to 3.3 MeV, differential cross sections for elastic, (E), 25:38947
scattering by nineteen nuclei from calcium-42 to lead-208, differential cross sections, polarization, and optical model parameters for elastic, (E), 25:25700
scattering by niobium and titanium at keV energies, angular and energy distributions in back-, (E/T), 23:39295
scattering by niobium-93 at 0.45 to 1.79 MeV, excitation function for, (E), 24:35870
scattering by nitrogen and oxygen at 49.4 MeV, angular distributions of cross sections and polarization in, (E), 25:5585
scattering by nitrogen-14 at 1.7 to 3 MeV, differential cross sections for elastic, (E), 21:31722
scattering by nitrogen-14 at 1.9 to 3.0 MeV, oxygen-15 energy-level spins and widths from, (E), 21:19182
scattering by nitrogen-14 at 11.9 to 14.6 MeV, angular distributions for elastic and inelastic, (E), 25:38901

scattering by nitrogen-14 at 12 to 15 MeV, angular distributions for elastic and inelastic, (E), 23:10961(R) (NP-17704)
scattering by nitrogen-14 at 15 MeV, angular distributions for elastic and inelastic, (E), 22:26904
scattering by nitrogen-14 at 15.3 MeV, energy levels from elastic and inelastic, (E), 21:33963(R) (NP-16498)
scattering by nitrogen-14 at 24 MeV, DWBA analysis of differential cross sections and asymmetries for elastic and inelastic, (E/T), 25:14890 (CEA-CONF-1651)
scattering by nitrogen-14 at 24 MeV, DWBA analysis of inelastic, (E/T), 25:45912 (CEA-N-1390, pp 91-137)
scattering by nitrogen-14 at 24 MeV, DWBA analysis of inelastic polarized, (E), 25:17741
scattering by nitrogen-14 at 24.8 MeV, analysis for tensor effective two-body interaction in inelastic, (E/T), 24:49761
scattering by nitrogen-14 at 3.0 to 4.8 MeV, angular distributions and polarization in elastic, (E), 21:5494
scattering by nitrogen-14 at 3.7 to 5.7 MeV, angular distributions for elastic and inelastic, (E), 23:30959
scattering by nitrogen-14 at 3.7 to 5.7 MeV, angular distributions for elastic and inelastic, (E), 22:35293(R) (ORNL-4230)
scattering by nitrogen-14 at 3.7 to 5.7 MeV, differential cross sections for elastic and inelastic, (E), 21:42559 (ORNL-TM-1926)
scattering by nitrogen-14 at 3.7 to 5.7 MeV, differential cross sections for elastic and inelastic, (E), 22:37303
scattering by nitrogen-14 at 46 MeV, angular distribution of differential cross section for elastic, (E), 23:10928 (UCLA-10-P-18-10)
scattering by nitrogen-14 at 46 MeV, proton spectra and angular distributions for, (E), 24:20328
scattering by nitrogen-14 at 49.4 MeV, differential cross sections for elastic, (E), 25:31233
scattering by nitrogen-14 at 6 to 11.5 MeV, angular distributions and total cross sections for, (E), 21:13796(R) (ORO-2972-25)
scattering by nitrogen-14 at 6 to 12 MeV, cross sections and spectra for elastic and inelastic, (E), 22:11949(R) (ORO-2972-47)
scattering by nitrogen-14, angular distributions for inelastic, (E), 25:38887 (JAERI-1205, pp 87-90)
scattering by nitrogen-14, DWBA analysis using tensor force for inelastic, (T), 23:44841
scattering by nitrogen-14, DWBA analysis with two-body tensor forces and central forces for inelastic, (T), 22:50560(R) (RLO-1062-681)
scattering by nitrogen-14, resonances in elastic and inelastic, (E), 22:53125
scattering by nitrogen-15 at 39.8 MeV, angular distributions for elastic, (E), 24:15850
scattering by nitrogen-15 at 39.8 MeV, proton spectra and angular distributions for, (E), 23:42857
scattering by nitrogen-15 at 9 to 11.7 MeV, excitation functions for inelastic, (E), 24:43135
scattering by nuclei at 0.2 to 30 GeV, Monte Carlo method for intranuclear cascades in inelastic, 23:30765 (JINR-P2-4402)
scattering by nuclei at 1 GeV, high-resolution nuclear spectroscopy project for, 25:47999
scattering by nuclei at 1.7 GeV/c, N + N correlations in, (E/T), 22:5499 (INP-567/PL/PH)
scattering by nuclei at 10 to 60 MeV, local Woods—Saxon potentials equivalent to nonlocal analysis including exchange effects in elastic, (T), 25:12689
scattering by nuclei at 100 MeV, design of scattering chamber for measurement of, 24:5378
scattering by nuclei at 100 to 200 MeV, polarization from elastic and inelastic, (E/T), 25:39058
scattering by nuclei at 11 MeV, real potential well depth for, (T), 22:14082
scattering by nuclei at 14.5 MeV, optical-model analysis of elastic, (E/T), 23:42998
scattering by nuclei at 140 to 340 MeV energy spectra of secondary particles from, (E/T), 21:31734 (ANS-SD-3, Session 1, Paper 3)
scattering by nuclei at 16 to 22 MeV, optical model analysis of, (T), 23:37289 (N-69-22934)
scattering by nuclei at 17.5 MeV, semiconductor detector system for measuring small-angle inelastic, 22:16884
scattering by nuclei at 19.3 GeV/c, (T), 21:17395
scattering by nuclei at 19.8 GeV/c in emulsions, multiple Coulomb, (E), 23:16923
scattering by nuclei at 20 GeV in emulsions, absorption mean free paths for inelastic, (E), 22:29621
scattering by nuclei at 20 GeV, computer program for cross sections of elastic, 22:13780
scattering by nuclei at 30 MeV, collective-model and distorted-wave calculations of inelastic, (T), 22:30102
scattering by nuclei at 30 to 180 MeV, optical potential for elastic, (T), 24:6966
scattering by nuclei at 30.3 MeV, nucleon-density distribution and two-body potentials for analysis of elastic, (T), 24:38346
scattering by nuclei at 40 MeV, differential cross sections and polarizations for elastic, (E), 21:29908
scattering by nuclei at 6 to 30 GeV/c, spark chamber for momentum analysis of, 21:16106 (CONF-660918-, pp 39-40)
scattering by nuclei at 61.4 MeV, optical-model parameters for, (E/T), 21:33872(R) (ORNL-4122)
scattering by nuclei at 730 MeV, use of lithium-drifted silicon detectors for detection of, 21:3298
scattering by nuclei at high energies, finite-range effects in DWIA treatment of inelastic, 21:40512
scattering by nuclei at high energies, lectures on correlations for, (E), 25:22668 (INP-712(Vol.1), pp 144-72)
scattering by nuclei at high energies, method for analyzing small-angle contribution to angular distributions in inelastic, (T), 23:28345
scattering by nuclei at high energies, phenomenological analysis of elastic, (T), 23:40122
scattering by nuclei at high energies, role of Coulomb interactions in elastic and near-elastic, 24:20094 (INP-687)
scattering by nuclei at high energies, small-angle, (T), 21:2808
scattering by nuclei at high energy, data analysis using Glauber formalism, (T), 23:9026 (TID-24667, pp 369-81)
scattering by nuclei at high energy, data analysis and equipment for, (E/T), 23:9027 (TID-24667, pp 382-96)
scattering by nuclei at high energy, nuclear structure research by, (E/T), 23:9028 (TID-24667, pp 417-23)
scattering by nuclei at low energy, polarization in elastic, (T), 21:23560
scattering by nuclei at medium and high energies, cross sections for summed inelastic and quasi-elastic, (T), 25:56849
scattering by nuclei at medium energy, method for measuring small-angle inelastic, 22:30048(R) (PUC-937-307)
scattering by nuclei near isobaric analog resonances, review of polarization effects in, 25:53841
scattering by nuclei of fixed spin, isobaric analog resonance in elastic, (T), 22:27369
scattering by nuclei through isobaric analog resonances, cross sections for inelastic, (T), 21:27632
scattering by nuclei through isobaric analog resonances, isospin purity of doorway wave functions in inelastic, (T), 21:27631
scattering by nuclei using polarized beams, nuclear structure effects on asymmetry in inelastic, (T), 25:53854
scattering by nuclei with $A = 28$ to 208 at 30 MeV, optical-model calculations for elastic, (T), 21:7794
scattering by nuclei with $A > 40$ at energies less than 50 MeV, optical-model parameters for elastic, (T), 24:6975
scattering by nuclei with $A = 50$ to 65 at 2.60 to 3.44 MeV, elastic, (E), 21:2681
scattering by nuclei with hyperon production, two-step processes in, (T), 24:52691
scattering by nuclei with isobaric analog excitation, method for analysis of elastic, (T), 25:31276
scattering by nuclei with isobaric analog excitation, model for analysis of elastic and inelastic, (T), 24:49931 (RLO-1388-578)
scattering by nuclei with isobaric analog excitation, analysis of resonance widths in, (E/T), 25:25684
scattering by nuclei with isobaric analog excitation, fine structure analysis of elastic, 24:43579
scattering by nuclei with isobaric analog excitation, formalism for analysis of elastic, (T), 25:53855
scattering by nuclei with isobaric analog excitation, model for analysis cf elastic and inelastic, (T), 24:11037
scattering by nuclei with isobaric analog excitation, model for analysis of elastic and inelastic, (T), 24:30938
scattering by nuclei with isobaric analog excitation, determination of spectroscopic factors in elastic and inelastic, 25:28464
scattering by nuclei with isobaric analog excitation, review on elastic and inelastic, 25:28469
scattering by nuclei with isobaric analog excitation, microscopic shell-model description of, (T), 24:11044
scattering by nuclei with isobaric analog resonance excitation, amplitude for elastic, (T), 22:7690 (JINR-E2-3551)
scattering by nuclei with isobaric analog resonances, elastic, (T), 21:10099
scattering by nuclei with isobaric analog resonance excitation, isospin-dependent optical-model formalism for determining spectroscopic factors from, (T), 23:1950
scattering by nuclei with isobaric analog resonance excitation, fine structure in cross sections for inelastic, (T), 23:4085
scattering by nuclei with isobaric analog resonance excitation, cross sections for inelastic, (T), 23:9045
scattering by nuclei with isobaric analog resonance excitation, (T), 22:35285(R) (AERE-PR/NP-13)
scattering by nuclei with one open shell, analysis of core polarization effects from elastic, (T), 23:49476
scattering by nuclei, (E), 21:33808 (RHEL/R-129, pp 97-106)
scattering by nuclei, analysis bf spin-dependent effects in inelastic, (T), 24:11038
scattering by nuclei, analysis using deformed spin-orbit potential, (T), 24:43570
scattering by nuclei, antisymmetrization and exchange in DWBA calculations of cross sections for inelastic, (T), 25:39127
scattering by nuclei, approximations in Bethe formula for Coulomb—nuclear interference in, 22:3464
scattering by nuclei, asymmetries, cross sections, and depolarizations from polarized elastic and inelastic, (E), 25:39056
scattering by nuclei, coincidence system for four-angle correlation measurements on inelastic, 21:29941
scattering by nuclei, computer codes for calculating cross sections for inelastic, 21:35527
scattering by nuclei, computer program for resonance analysis of elastic, 21:40472 (ORO-2972-34)
scattering by nuclei, coupled-channel analysis of intermediate triton formation in, (T), 25:46124
scattering by nuclei, cross sections and polarizations for, (E), 21:33812 (RHEL/R-144, pp 73-83)
scattering by nuclei, data acquisition and analysis system for experiments on inelastic, 23:4054 (NP-17611)
scattering by nuclei, description of analog resonances near compound-nucleus overlapping levels in inelastic, (T), 25:15179
scattering by nuclei, double-scattering corrections to distorted-wave impulse-approximation calculations of inelastic, (T), 25:50847
scattering by nuclei, effect of L-S interaction on inelastic, (T), 25:18026
scattering by nuclei, effects of L—S coupling on partial-wave amplitudes for inelastic, (T), 25:39125
scattering by nuclei, exchange effects with realistic interaction for inelastic, (T), 25:12676
scattering by nuclei, fine structure of isobaric analog resonances in elastic, (T), 22:44777
scattering by nuclei, form-factor calculations using projected Hartree—Fock wave functions for inelastic, (T), 22:48588 (N-68-24661)
scattering by nuclei, formalism for polarization transfer in elastic, (T), 25:5804 (LA-4465, pp 21.1-2)
scattering by nuclei, formalism for polarization transfer in elastic, (T), 25:53849
scattering by nuclei, generalized optical-model potential for elastic and quasi-elastic, (T), 22:1729
scattering by nuclei, Hartree—Fock calculations for inelastic, (T), 24:6974
scattering by nuclei, Hauser—Feshbach computer program for inelastic, 23:42968
scattering by nuclei, intermediate structure in inelastic, (T), 22:24896 (LA-DC-8192)
scattering by nuclei, isobaric analog resonances in inelastic, (E/T), 22:20729
scattering by nuclei, isobaric analog resonances in elastic, (E/T), 22:27254
scattering by nuclei, isobaric analog resonances in elastic and inelastic, (T), 21:12101
scattering by nuclei, isobaric analog resonances in elastic, (T), 22:27368
scattering by nuclei, isospin dependence of the optical potential in elastic, (T), 25:15154
scattering by nuclei, isotopic dependence of optical model parameters for, 24:18462
scattering by nuclei, lectures on cross sections and polarization from elastic, (T), 25:12624 (ANU-P-497)
scattering by nuclei, measurement of spectroscopic factors from analog resonances in, 24:11030
scattering by nuclei, method for analysis of anomalies in elastic, 23:19379
scattering by nuclei, microscopic first-order core polarization corrections to DWBA for inelastic, (T), 25:12678
scattering by nuclei, microscopic model for analysis of inelastic, (T), 24:49919 (CEA-R-4000)
scattering by nuclei, optical potential for elastic, (T), 24:43568
scattering by nuclei, optical-model potential for elastic, (T), 21:15637
scattering by nuclei, polarization analysis using optical potential with real surface term, (T), 25:53853
scattering by nuclei, polarization and cross-section calculations using distorted-wave Born approximation for inelastic, 21:31828 (CEA-Bib-83)
scattering by nuclei, polarization and cross-section calculations using optical model for elastic, 21:31828 (CEA-Bib-83)
scattering by nuclei, polarization phenomena in, (E/T), 21:12094
scattering by nuclei, quasi-free, (T), 21:17185
scattering by nuclei, review of polarization effects in inelastic, 25:53840
scattering by nuclei, spectroscopic factors from isobaric analog resonances in inelastic, 25:17973
scattering by nuclei, spectroscopic factors from isobaric analog resonances in elastic, (T), 22:18336
scattering by nuclei, spectroscopic information from excitation of isobaric analog states in, (E/T), 22:30094
scattering by nuclei, spin-orbit effects on optical-model calculations of differential cross sections for elastic, (T), 21:44772
scattering by nuclei, strength functions of one-hole two-particle states from, (E), 21:1019
scattering by nuclei, stripping theory for, 21:30036
scattering by nuclei, system for four-angle correlation measurements, 21:29942
scattering by nuclei, theory of isobaric analog resonances in, (T), 22:5893
scattering by nuclei, validity and limits of diffraction theories for, 22:17926
scattering by odd-A indium, niobium, rhodium, and silver isotopes, inelastic, (E), 22:32651
scattering by osmium-186, osmium-188, osmium-190, osmium-192, palladium-104, tungsten-182, tungsten 184, and tungsten-186 with Coulomb excitation, (E), 22:29985 (ORNL-TM-2121)
scattering by osmium-188, -190, and -192 at 10 to 16 MeV, isobaric analog resonances in, (E), 22:27213
scattering by osmium-190 and osmium-192 at 4.5 MeV with Coulomb excitation, γ—γ angular correlations for inelastic, (E), 23:9000
scattering by osmium-190 and osmium-192 at 4.5 MeV, with Coulomb excitation, γ-γ angular correlations in, (E), 22:35293(R) (ORNL-4230)
scattering by oxygen at 16 to 30 MeV, resonance effects in elastic, (E), 24:43153
scattering by oxygen at 2 to 3 MeV, excitation function for polarization from double elastic, (E), 21:33604
scattering by oxygen at 24 to 40 MeV, (E/T), 21:35434 (AD-649942)
scattering by oxygen at 24.2 to 40.0 MeV, angular dependence of left—right asymmetry for polarized, (E), 22:15965
scattering by oxygen-16 at 1 GeV, nuclear opaqueness model for differential cross sections for, (E/T), 25:31234
scattering by oxygen-16 at 1.7 GeV, cross sections from amplitudes for elastic, (T), 24:42987
scattering by oxygen-16 at 13.2 to 14.1 MeV, excitation functions for elastic and inelastic, (E), 24:43171
scattering by oxygen-16 at 17 GeV/c, multiple diffractive model for elastic, 25:28073
scattering by oxygen-16 at 17 to 46 MeV, angular distributions for inelastic, (E), 23:10928 (UCLA-10-P-18-10)

scattering by oxygen-16 at 18 to 30 MeV, excitation functions and polarization for elastic, (E), 23:30923(R) (RHEL/R-170)
scattering by oxygen-16 at 19.8 to 30 MeV, differential cross sections, excitation function, and polarization for elastic, (E), 23:39968
scattering by oxygen-16 at 2.5 MeV, phase shift analysis of elastic, (E/T), 23:46933
scattering by oxygen-16 at 20 to 30 MeV, excitation functions for elastic and inelastic, (E), 23:10928 (UCLA-10-P-18-10)
scattering by oxygen-16 at 20 to 40 MeV, excitation functions for elastic and inelastic, (E), 24:8832(R) (UCLA-10-P-18-13)
scattering by oxygen-16 at 20 to 40 MeV, excitation functions for elastic and inelastic, (E/T), 24:28705 (UCLA-10-P-18-16)
scattering by oxygen-16 at 20 to 50 MeV, differential cross section for elastic, (E), 22:26838
scattering by oxygen-16 at 20 to 50 MeV, optical-model analysis of elastic, (E/T), 22:26907
scattering by oxygen-16 at 20 to 55 MeV, optical model analysis of elastic, (E/T), 24:43160
scattering by oxygen-16 at 21 to 45.3 MeV, proton spectra and angular distributions for elastic, (E), 23:42857
scattering by oxygen-16 at 21.25 to 38.50 MeV, optical-model and coupled-channels analysis of angular distributions and excitation functions from elastic and inelastic, (E/T), 25:17735
scattering by oxygen-16 at 21.3 to 38.5 MeV, angular distributions for elastic and inelastic, (E), 25:33994
scattering by oxygen-16 at 23 to 46 MeV, differential cross sections for elastic, (E), 22:18131
scattering by oxygen-16 at 23 to 53 MeV, optical-model analysis of, (T), 24:1771
scattering by oxygen-16 at 23.4 to 46.1 MeV, spin dependence in distorted wave analysis of angular distributions from inelastic, (E/T), 25:33977
scattering by oxygen-16 at 24 to 40 MeV, angular distribution of polarization in elastic, (E), 22:18132
scattering by oxygen-16 at 25 to 45 MeV, angular distributions for elastic, (E), 24:15809
scattering by oxygen-16 at 25 to 53 MeV, optical-model analysis of elastic, (T), 23:10928 (UCLA-10-P-18-10)
scattering by oxygen-16 at 30 to 50 MeV, optical model analysis of, (T), 23:37289 (N-69-22934)
scattering by oxygen-16 at 50 MeV, calculation of γ spectra from inelastic, (T), 24:3953(R) (ORNL-4433)
scattering by oxygen-16 at 50 MeV, differential cross sections for elastic, (E), 21:23422
scattering by oxygen-16 at 8 to 12 MeV, polarization in elastic, (E), 25:53643
scattering by oxygen-16 at 8.5 to 12.7 MeV, polarization in elastic, (E), 25:31236
scattering by oxygen-16 with excitation of isobaric analog resonances, excitation functions for elastic, (E), 23:23642
scattering by oxygen-16, angular distributions for elastic and inelastic, (E), 22:3610
scattering by oxygen-16, effective cross sections for elastic, (T), 25:59509
scattering by oxygen-16, form factors for inelastic, (T), 21:31838 (RHEL/R-136, pp 89-130)
scattering by oxygen-16, helium-4, and carbon-12 at high energies, study of composite hadron potential strong interactions from elastic, (T), 24:1615 (INP-679)
scattering by oxygen-16, silicon-28, and sulfur-32 with excitation of non-normal-parity, differential cross sections and polarization for inelastic, (T), 22:22576
scattering by oxygen-16, silicon-28, and sulfur-32 at 17.5 MeV, DWBA analysis of inelastic, (T), 24:5396
scattering by oxygen-16, silicon-28, and sulfur-32 at 17.5 MeV, DWBA analysis using shell-model wave functions with effective interaction for inelastic, (T), 23:21275 (ZFK-130, pp 196-200)
scattering by oxygen-17 at 11 to 13 MeV, differential cross sections for elastic, (E), 21:25454
scattering by oxygen-18 at 1.4 to 3.2 MeV, excitation functions for elastic, (E), 23:49338
scattering by oxygen-18 at 1.4 to 3.2 MeV, yield curve for elastic, (E), 23:1882 (WASH-1093)
scattering by oxygen-18 at 1.4 to 3.2 MeV, yield curve for elastic, (E), 23:19254(R) (ORO-3624-7)
scattering by oxygen-18 at 1.4 to 3.2 MeV, yield curve for elastic, (E), 22:20578 (WASH-1079)
scattering by oxygen-18 at 1.4 to 3.2 MeV, yields for elastic, (E), 22:22560(R) (ORO-1067-2)
scattering by oxygen-18 at 1.9 to 3.2 MeV, excitation functions for elastic, (E), 24:45732
scattering by oxygen-18 at 2.5 to 3.0 MeV, fluorine-19 isobaric analog levels from inelastic, (E), 21:31725
scattering by oxygen-18 at 3 to 4 MeV, excitation functions for inelastic, (E), 23:3948
scattering by oxygen-18 at 3 to 7 MeV, excitation functions for inelastic, (E), 23:49327 (ANU-P-448)
scattering by oxygen-18 at 3 to 7 MeV, excitation functions for inelastic, (E), 23:28242(R) (ANU-P-434)
scattering by oxygen-18 at 3 to 7 MeV, γ yields and excitation functions for inelastic, (E), 23:49334
scattering by oxygen-18 at 3.2 to 5.4 MeV, excitation functions for inelastic, (E), 23:28266
scattering by palladium foil implanted with helium-4 ions, 25:37260(R) (UCRL-50006-71)
scattering by palladium-102, -104, -106, and -108, isobaric analog resonances in elastic, (E), 21:46784
scattering by palladium-104 at 12 MeV, proton spectra from inelastic, (E), 25:48106
scattering by palladium-104, proton spectra for inelastic, (E), 23:42916(R) (UR-3591-10)
scattering by palladium-110 at 13 MeV, differential cross sections for elastic and inelastic, (E), 24:15925
scattering by palladium-110 at 13 MeV, differential cross sections for inelastic, (E), 24:43405
scattering by palladium-110 at 13 MeV, differential cross sections for elastic and inelastic, (E), 22:35293(R) (ORNL-4230)
scattering by phosphorus-30 and -31 at 17.5 MeV, differential cross sections for inelastic, (E), 23:32901 (PUC-937-350)
scattering by phosphorus-31 at 1.0 to 3.8 MeV, differential cross section for elastic, (E), 22:24841
scattering by phosphorus-31 at 1.99 to 2.05 MeV, differential cross sections for elastic, (E), 22:20516
scattering by phosphorus-31 at 185 MeV, angular distributions and proton spectra from inelastic, (E), 25:48060
scattering by phosphorus-31 at 3.150 to 3.300 MeV, excitation functions and angular distributions for elastic and inelastic, (E), 25:17774 (NP-18623)
scattering by phosphorus-31 at 5.8 and 6.6 MeV, proton—gamma angular correlations from, (E), 24:38134
scattering by phosphorus-31 at 8 to 10 MeV, analysis for reaction mechanism in elastic, (E/T), 24:10914 (ANU-P-476)
scattering by phosphorus-31 at 8 to 10 MeV, analysis of reaction mechanism in elastic, (E/T), 24:35845
scattering by phosphorus-31 at 8 to 10 MeV, excitation functions for elastic, (E), 23:13224 (ANU-P-418)
scattering by phosphorus-31 at 8 to 10 MeV, excitation functions for elastic, (E), 23:17096
scattering by phosphorus-31 at 8 to 10 MeV, excitation functions for elastic, (E), 23:28242(R) (ANU-P-434)
scattering by phosphorus-31 at 8.0 to 8.2 MeV, analysis of compound and direct processes from differential cross section measurements of elastic, (E), 23:40017
scattering by phosphorus-31 at 8.0 to 8.2 MeV, angular distributions and excitation functions for elastic, (E), 22:32513(R) (ANU-P-400)
scattering by phosphorus-31, factors limiting resolving power of silicon spectrometers in study of elastic, 23:671 (CEA-R-3415)
scattering by platinum at 5 MeV, search for Mott-Schwinger polarization in elastic, (E), 25:53790
scattering by plutonium-240 at 20 MeV, fission probability in inelastic, (E), 24:30784
scattering by plutonium-240 at 20 MeV, fission probability in inelastic, (E), 23:49398 (WASH-1127)
scattering by polarized helium-3 at 19.4 MeV, polarization and spin-correlation parameters of elastic, (E/T), 25:14888
scattering by polarized helium-3 at 19.5 MeV using polarized beam, correlation parameters for elastic, (E), 25:5506 (CEA-N-1232, pp 81-159)
scattering by polarized helium-3 at 4 to 11 MeV, asymmetry in, (E), 23:30929
scattering by polarized helium-3 at 4 to 11 MeV, asymmetries in elastic, (E), 21:40432 (WASH-1074)
scattering by polarized helium-3 at 4 to 11 MeV, phase-shift analysis of elastic, (E), 24:35811
scattering by polarized helium-3 at 4 to 12 MeV, asymmetry measurements on elastic, (E), 23:15346(R) (ORO-1316-70)
scattering by polarized helium-3 at 8.8 MeV using polarized beams, spin correlation parameter for elastic, (E), 23:15346(R) (ORO-1316-70)
scattering by polarized helium-3, polarization angular distribution in, (E), 22:20578 (WASH-1079)
scattering by polarized hydrogen at 46.9 MeV, spin correlation parameters from elastic, (E), 25:48020
scattering by polystyrene films at 106 to 218 keV, angular distributions for multiple, (T), 24:35161
scattering by potassium chloride single crystals below 100 keV, classical mechanical computer simulation of, 23:41917
scattering by potassium-39 at 1.03 to 3.23 MeV, excitation functions for elastic, (E), 25:12437
scattering by potassium-39 at 10 to 12 MeV, intermediate structure in cross section for elastic, (E), 24:43300
scattering by potassium-39 at 5.6 MeV, p—γ delayed coincidence spectra for inelastic, (E), 23:28247
scattering by potassium-39 at 6.3 to 6.7 MeV with isobaric analog excitation, excitation functions for inelastic, (E), 23:37152
scattering by potassium-39 at 7.12 to 8.51 MeV, energy levels from inelastic, (E), 22:15986
scattering by potassium-39 at 8.175 MeV, level lifetimes from inelastic, (E), 23:40015
scattering by potassium-41 at 1.35 to 1.96 MeV, angular distributions for elastic, (E), 24:49843
scattering by potassium-41 at 5.3 to 5.8 MeV, gamma and proton spectra from inelastic, (E), 25:50700
scattering by protons at 600 MeV, differential cross sections and polarizations for elastic, 25:47738
scattering by rare gas atoms at 3 to 60 eV, differential cross sections for elastic, (E), 25:7171
scattering by rhodium-103 at 10 and 12 MeV, cross sections for inelastic, (E), 23:17126
scattering by rhodium-103 at 10 and 12 MeV, proton spectra and cross sections for inelastic, (E), 23:13260 (ANU-P-420)
scattering by rhodium-103 at 10 MeV, γ and proton spectra from inelastic, (E), 22:32513(R) (ANU-P-400)
scattering by s-d shell nuclei, analysis of deformation in polarized inelastic, (T), 25:56828 (LYCEN-7104, S9.1-7)
scattering by samarium-144 at 30 MeV, optical model analysis of elastic, (E), 25:9978(R) (ORO-3398-26)
scattering by samarium-144 at 8.6 to 11.6 MeV, isobaric analog states in europium-145 by, (E), 21:1097
scattering by samarium-144 at 8.6 to 11.7 MeV, excitation function for, (E), 21:25528
scattering by samarium-144 at 9.1 to 11.2 MeV, polarization in, (E), 23:40085
scattering by samarium-144, samarium-148, samarium-150, samarium-152, samarium-154, and ytterbium-174 at 16 MeV, differential cross sections for elastic and inelastic, (E), 21:42669
scattering by samarium-148 and -154 at 16 MeV, differential cross sections and deformation parameters for, (E/T), 25:20477
scattering by samarium-148 at 10, 10.5, and 12 MeV, proton spin-flip probability for inelastic, (E), 22:42077
scattering by samarium-148 at 49.5 MeV, optical-model analysis of elastic, (T), 25:15013
scattering by samarium-148, samarium-154, and ytterbium-174, elastic and inelastic, (E), 22:11952
scattering by samarium-152 at 12 MeV, proton spin-flip probability in inelastic, (E), 22:42077
scattering by samarium-154 with Coulomb excitation, Moessbauer spectra from, (E), 22:7698 (NYO-2028-2, pp 37-44)
scattering by scandium-45 at 1.8 to 4.5 MeV, gamma and proton spectra from inelastic, (E), 24:38197
scattering by scandium-45 at 18 MeV, differential cross sections for inelastic, 21:38377(R) (PUC-937-260)
scattering by scandium-45 at 2 to 5 MeV, p-γ coincidence spectra from inelastic, (E), 25:53608(R) (NP-18698)
scattering by scandium-45 at 2.8, 3.2, and 3.6 MeV, γ spectra from, (E), 22:50569
scattering by scandium-45 at 8 MeV, gamma spectra from inelastic, (E), 25:14941
scattering by scandium-45, zero-range exchange potential for, (T), 22:32725
scattering by selenium isotopes at 11.5 MeV, effects of deformation on polarization in, (E), 21:21497
scattering by selenium-76, -78, -80, and -82 at 6.4 MeV, cross sections and polarization for elastic and inelastic, (E), 24:35846
scattering by selenium-76, -78, -80, and -82, isobaric analog resonances in elastic, (E), 22:37327
scattering by selenium-76, selenium-78, selenium-80, and selenium-82, isobaric analog resonances in elastic, (E), 23:1882 (WASH-1093)
scattering by selenium-77 up to 4.5 MeV with isobaric analog excitation, excitation function for elastic, (E), 24:20345 (JAERI-1184, pp 123-5)
scattering by selenium-80 at 6.5 MeV using polarized beams, asymmetry in elastic, (E), 23:21302 (ZFK-130, pp 155-7)
scattering by silicon and tungsten at 500 keV, (E), 21:40108
scattering by silicon at 24.5 to 46 MeV, differential cross sections and optical model parameters for, (E/T), 25:45988
scattering by silicon single crystals at large angles, elastic MeV, (E), 22:11558
scattering by silicon single crystals in blocking direction at 0.4 MeV, multiple electronic scattering effects on energy spectra in, 24:5207
scattering by silicon, chromium-52, iron-56, nickel-58, niobium-93, silver, and indium at 12 MeV, polarization angular distributions and optical-model analysis of, (E/T), 24:38188
scattering by silicon-28 and -29 at 15 MeV, angular distrubitions for inelastic, (E), 24:20272(R) (NP-18091)
scattering by silicon-28 at 12 MeV using polarized beams, asymmetry measurements for elastic and inelastic, (E), 23:10961(R) (NP-17704)
scattering by silicon-28 at 12 to 15 MeV, statistical analysis of intermediate structure in inelastic, (E/T), 25:12470
scattering by silicon-28 at 18.0 MeV of polarized, depolarization parameter from elastic, (E), 25:14889 (CEA-CONF-1650)
scattering by silicon-28 at 185 MeV, differential cross sections and spectra for inelastic, (E), 21:42583
scattering by silicon-28 at 2.6 to 4.0 MeV, polarization of elastic, (E), 23:40022
scattering by silicon-28 at 21.2 MeV, angular distributions for inelastic, (E), 22:15994
scattering by silicon-28 at 27.6 MeV, cross-section angular distribution for, (E), 22:9800(R) (COO-535-571)
scattering by silicon-28 at 28 MeV, optical-model analysis of cross-section angular distribution for elastic, (E/T), 22:9812
scattering by silicon-28 at 29 MeV, asymmetry for excitation of first 2^+ level in inelastic, (T), 23:37299
scattering by silicon-28 at 29.7 and 40 MeV, spin flip in inelastic, (E), 22:44672
scattering by silicon-28 at 40 MeV, asymmetry, differential cross section, and spin-flip probability for excitation of the first 2^+ level in inelastic, (T), 23:37299
scattering by silicon-28 at 40 MeV, proton spin-flip probability in elastic, (E), 22:35292 (ORNL-4217, pp 1-81)
scattering by silicon-28 at 49 MeV, asymmetry for excitation of first quadrupole state in inelastic, (T), 23:37299
scattering by silicon-28 at 6.3 MeV using polarized beams, differential cross section of elastic and inelastic, (E), 24:22119
scattering by silicon-28 at 7.5 to 11.5 MeV, polarization in elastic, (E), 25:53710
scattering by silicon-28, germanium-70, and germanium-72 at 1.59 to 5.91 MeV, angular distributions and reaction times for, (E), 24:52493
scattering by silicon-28, iron-54, nickel-58, and nickel-60 at 40 MeV, asymmetry and differential cross sections for excitation of the first 3^- levels in inelastic, (T), 23:37299
scattering by silicon-29 and -30, resonances in inelastic, (E), 22:11948(R) (NP-17216)
scattering by silicon-29 and silicon-30 at 17.5 MeV, differential cross sections for inelastic, (E), 22:30048(R) (PUC-937-307)
scattering by silicon-29 at 1.1 to 2.5 MeV, differential cross sections for elastic and inelastic, (E), 24:40597
scattering by silicon-29 at 1.2 to 3.1 MeV, elastic and inelastic, (E), 21:29935
scattering by silicon-29 at 1.3 to 1.9 MeV, γ spectra from inelastic, (E), 24:10941 (ANU-P-464)
scattering by silicon-29 at 1.3 to 1.9 MeV, γ yield from inelastic, (E), 25:1726

scattering by silicon-29 at 4.9 to 5.3 MeV, γ-γ angular correlations in inelastic, (E), 22:26993
scattering by silicon-29 at 6.5 and 8.7 MeV, gamma spectra and angular correlations from inelastic, (E), 25:12449
scattering by silicon-29, γ-γ angular correlations for inelastic, (E), 21:2704
scattering by silicon-29, γ-γ angular correlations from inelastic, (E), 21:33954(R) (AECL-2687)
scattering by silicon-30 at 1 to 2 MeV, parities, proton widths, and reduced widths of resonances in, (E), 22:15967
scattering by silicon-30 at 1.0 to 2.2 MeV, dissertation summary on elastic, (E), 22:42007
scattering by silicon-30 at 8.06 to 9.41 MeV, p-γ angular correlations from inelastic, (E), 25:38965
scattering by silver at 9.8 MeV, partial-wave theory for elastic, 21:34055
scattering by silver-107 and -109 at 6.0 to 7.5 MeV, isobaric analog resonance in, (E), 22:11949(R) (ORO-2972-47)
scattering by silver-107 and silver-109 at 5.9 to 7.3 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 23:31011
scattering by silver-107 and silver-109 with excitation of isobaric analog resonances, excitation functions for elastic and inelastic, (E), 23:13298
scattering by silver-107 at 13 MeV, differential cross sections for elastic and inelastic, (E), 21:35484
scattering by silver-109 at 13 MeV, angular distributions for inelastic, (E), 23:39976(R) (ORNL-4395)
scattering by silver-109 at 13 MeV, differential cross sections for elastic and inelastic, (E), 24:22163
scattering by single crystal of bismuth at 5 MeV, yield of backward elastic, (E), 21:42624
scattering by single crystals, preparation of target specimens for study of, 23:39543
scattering by single crystals, use in crystal structure studies, 21:23276
scattering by sodium-22 at 8 to 12 MeV, analysis of average cross sections for, (E), 23:40008
scattering by sodium-23 and magnesium-25 at 17.5 MeV, cross-section calculations for inelastic, (T), 25:3603
scattering by sodium-23 at 1 to 1.8 MeV, analysis of resonances in inelastic, (E), 25:20325
scattering by sodium-23 at 17.5 MeV, coupled channel calculation for elastic and inelastic, (E), 24:43250
scattering by sodium-23 at 3.6 to 4.5 MeV, γ yields for inelastic, (E), 22:22570
scattering by sodium-23 at 3.8 to 4.2 MeV, excitation function for elastic, (E), 21:40429(R) (RLO-1388-23)
scattering by sodium-23 at 4.12 to 5.15 MeV, gamma and proton spectra and gamma-gamma angular correlations from inelastic, (E), 24:38198
scattering by sodium-23 at 5 MeV, γ—γ angular correlations for inelastic, (E), 23:5846
scattering by sodium-23 at 6 MeV, angular distributions for elastic and inelastic, (E), 24:18393
scattering by sodium-23 at 6.2 to 6.7 MeV, angular distributions and excitation functions for elastic and inelastic, (E), 22:42009
scattering by sodium-23 at 8 to 12 MeV, analysis for reaction mechanisms in elastic and inelastic, (E/T), 24:10944 (ANU-P-477)
scattering by sodium-23 at 8 to 12 MeV, analysis of reaction mechanisms in elastic and inelastic, (E/T), 24:38153
scattering by sodium-23 at 8 to 12 MeV, differential cross sections for, (E), 24:20369
scattering by sodium-23 at 8 to 12 MeV, excitation functions for elastic, (E), 23:32908 (ANU-P-426)
scattering by sodium-23 at 8 to 12 MeV, excitation functions for elastic, (E), 23:28242(R) (ANU-P-434)
scattering by sodium-23 at 8 to 12 MeV, intermediate structure in cross section for, (E), 24:10939 (ANU-P-457)
scattering by sodium-23 at 8 to 12 MeV, statistical analysis of intermediate structure in inelastic, (E/T), 24:1776 (ANU-P-467)
scattering by sodium-23, twice-T-forbidden elastic, (E), 21:38269
scattering by solids, use in crystal structure studies, 21:25201
scattering by spin-zero nuclei, formula for polarization in elastic, (T), 22:27264
scattering by strontium-86 at 12 MeV, differential cross sections for elastic and inelastic, (E), 25:53752(R) (ORNL-4659)
scattering by strontium-86 at 4.5 to 7.5 MeV, excitation functions for elastic and inelastic, (E), 25:28234
scattering by strontium-87 at 4.5 to 7.5 MeV, excitation functions for elastic, (E), 24:52521
scattering by strontium-88 and yttrium-89 at 19 MeV, angular distributions for elastic and inelastic, (E), 22:11942
scattering by strontium-88 and yttrium-89 at 19.5 MeV, elastic and inelastic, (E), 21:11991(R) (UCOL-535-561)
scattering by strontium-88 at 19 MeV, energy levels from inelastic, (E/T), 21:31756
scattering by strontium-88 at 20 MeV, angular distributions for elastic and inelastic, (E), 23:25885
scattering by strontium-88 at 4 to 8 MeV, strontium-89 analog states from, (T), 21:4249
scattering by strontium-88 at 4.5 to 8.6 MeV with isobaric analog excitation, proton polarization from elastic, (E), 25:28238
scattering by strontium-88 at 4.7 to 8.4 MeV, isobaric analog resonances in elastic, (E), 22:11949(R) (ORO-2972-47)
scattering by strontium-88 at 4.8 to 8.2 MeV with isobaric analog excitation, analysis using generalized optical model, (T), 25:34039
scattering by strontium-88 at 4.9 to 8.7 MeV, strontium-89 isobaric analog levels from elastic and inelastic, (E), 22:15992
scattering by strontium-88 at 5 to 8 MeV with isobaric analog excitation, nonlocal coupled channel calculation of cross sections for elastic, (T), 23:30990
scattering by strontium-88 at 7.0 to 8.5 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:32516 (MIT-2098-422, pp 43-68)
scattering by strontium-88 at 7.4 to 8.0 MeV, isobaric analog resonances in inelastic, (E), 22:27210
scattering by strontium-88 at 8 to 12 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 25:28240
scattering by strontium-88 at 8.5 to 12 MeV, excitation functions for elastic and inelastic, (E), 25:10011
scattering by strontium-88 with excitation of isobaric analog resonances, calculation of proton spectra for elastic, (T), 23:28272 (ITF-68-84)
scattering by strontium-88 with isobaric analog excitation, analysis using coupled optical equations, (T) , 25:28236
scattering by strontium-88, interpretation of isobaric analog resonances in inelastic, (T), 22:41995
scattering by strontium-88, isobaric analog resonance widths for, (T), 22:24846
scattering by strontium-88, zirconium-90, -92, and -94 with isobaric analog excitation, proton spectra for elastic, (E), 24:1799
scattering by sulfur-32 at 185 MeV, angular distributions and proton spectra from inelastic, (E), 25:48060
scattering by sulfur-32 at 2.8 to 5.5 MeV, cross sections for elastic and inelastic, (E), 23:39941(R) (NP-17890)
scattering by sulfur-32 at 2.8 to 5.5 MeV, differential cross sections for elastic and inelastic, (E), 22:26932(R) (NP-17434)
scattering by sulfur-32 at 3.200 to 3.385 MeV, phase-shift analysis of excitation functions and energy spectra from elastic, (E/T), 25:12506
scattering by sulfur-32 at 3.3 to 3.4 MeV, cross sections for elastic, (E), 24:43293
scattering by sulfur-32 at 5 to 14 MeV, analysis of reaction mechanism in elastic and inelastic, (E), 25:56694
scattering by sulfur-32 at 7 MeV, γ spectra from inelastic, (E), 21:40473(R) (PR-P-74)
scattering by sulfur-32 at 9.275 MeV, evidence for vibrational excited states from inelastic, (E), 25:20326
scattering by sulfur-34 at 12 MeV, proton spectra from inelastic, (E), 23:5852
scattering by sulfur-34 at 2.8 to 3.1 MeV, excitation function for inelastic, (E), 22:9806
scattering by surface layers of single crystals, design of equipment for studying, 23:35381
scattering by surfaces, use in structure studies, (E/T), 22:31924 (BNL-50083, pp 167-78)
scattering by tantalum-181 at 10 MeV using polarized beams, elastic, (E), 23:1929(R) (COO-1265-67)
scattering by tantalum-181 at 17.5 MeV, isomer production by inelastic, (E), 21:38370
scattering by tantalum-181, tin-120, and zirconium-90 at 9.7 MeV, optical-model analysis of elastic, (E/T), 25:17873
scattering by tellurium isotopes, iodine-isotope isobaric analog energy levels from elastic, (E), 21:13796(R) (ORO-2972-25)
scattering by tellurium-122, -124, and -126 at 6.7 to 12.5 MeV, proton spectra and angular distributions for, (E), 25:43933
scattering by tellurium-124 at 12 MeV, angular distributions for elastic and inelastic, (E), 24:30827
scattering by tellurium-124 at 13 MeV, deformation parameters and DWBA and optical-model analysis of differential cross sections from elastic and inelastic, (E/T), 25:25781
scattering by tellurium-124, -126, -128, and -130, isobaric analog resonances in elastic, (E), 21:46773
scattering by tellurium-124, tellurium-126, tellurium-128, and tellurium-130, isobaric analog resonances in elastic, (E), 23:19253(R) (ORO-2972-80)
scattering by tellurium-124, tellurium-126, tellurium-128, and tellurium-130 at 8 to 12 MeV with excitation of isobaric analog resonances, excitation functions for elastic, 23:7305
scattering by tellurium-128 and -130 at 7.48 to 12.65 MeV, angular distributions and proton and gamma energy spectra from elastic and inelastic, (E), 25:12602
scattering by tellurium-128 at 7.6 to 8.2 MeV, excitation function and polarization for elastic, (E), 21:44722
scattering by tellurium-128 at 9.8 to 10.5 MeV, polarization and excitation functions for elastic, (E), 25:53792
scattering by tellurium-130 at 10.2 to 10.9 MeV with isobaric analog excitation, angular distributions for inelastic, (E), 24:43443
scattering by tellurium-130 at 7.5 to 12.6 Mev, iodine-131 isobaric analog states from elastic and inelastic, (E) , 21:1114
scattering by tellurium-130 at 7.8 to 12 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 25:28427
scattering by tellurium-130 to 10.2 to 10.8 MeV, proton spectra and angular distributions for inelastic, (E), 25:28369
scattering by tellurium-130, angular distributions and excitation functions for elastic and inelastic, (E), 25:43918
scattering by tellurium-130, resonance analysis for elastic and inelastic, (T), 23:19253(R) (ORO-2972-80)
scattering by thallium-203 and -205, analog resonance excitation by elastic and inelastic, (E), 24:22168
scattering by thallium-205 at 12 to 18 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 23:52109(R) (RLO-1388-96)
scattering by thallium-205 at 12 to 20 MeV, excitation functions for several analog resonances, (E), 24:43369
scattering by thallium-205 at 14 to 29 MeV with excitation of isobaric analog resonances, excitation functions for inelastic, (E), 23:13291
scattering by thallium-205 at 20 MeV, angular distributions for inelastic, (E), 24:30853
scattering by thallium-205 at 20 MeV, spectra for inelastic, (E), 23:52120 (UCRL-18667, pp 65-132)
scattering by thorium-232 and uranium-238 at 22.95 MeV, deformation parameters β_4 from coupled-channels analysis of angular distributions from inelastic, (E/T), 25:46023
scattering by tin-112, -114, -116, -117, -118, -119, -120, and -124 at 17 MeV, analysis for reaction mechanism in inelastic, (E), 24:52636
scattering by tin-112, -116, -118, -120, -122, and -124 at 16 MeV, angular distributions for elastic and inelastic, (E), 22:27203
scattering by tin-112, tin-114, and tin-124 at 30 MeV, differential cross sections for, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by tin-116 and -117 at 55 MeV, energy spectra and angular distributions from inelastic, (E), 22:30009
scattering by tin-116 at 14.5 MeV, optical-model and DWBA analysis of elastic and inelastic, (E/T), 21:33963(R) (NP-16498)
scattering by tin-116 at 61.4 MeV, differential cross sections for elastic, (E), 21:27559
scattering by tin-116, -118, -120, -122, and -124 at 40 MeV, differential cross sections and polarizations for, (E), 22:1598(R) (COO-1265-49)
scattering by tin-116, -118, -120, and -124 at 16.00 MeV, polarizaion angular distribution for elastic, (E), 25:31341
scattering by tin-116, -118, and -120 at 156 MeV, differential cross sections for elastic and inelastic, (E), 24:52565 (NP-18461)
scattering by tin-116, -122, and -124, isobaric analog resonances in inelastic, (E), 22:9914
scattering by tin-116, -122, and -124, isobaric analog resonances in inelastic, (E), 22:20628
scattering by tin-116, excitation function for elastic, (E), 21:25520
scattering by tin-116, tin-117, and tin-118 at 55 MeV, angular distributions for inelastic, (E), 22:27144
scattering by tin-116, tin-118, and tin-120 at 6.5 to 9.5 MeV, polarization measurements near isobaric analog resonances in, (E), 22:42040
scattering by tin-116, tin-118, and tin-120 using polarized beams, isobaric analog resonances in, (E), 22:42069
scattering by tin-118 and tin-119 at 7.3 to 11.1 MeV, isobaric analog states from, (E), 21:25527
scattering by tin-118 at 8 to 11.2 MeV, excitation function for elastic, (E), 21:25520
scattering by tin-118 with excitation of 2^+ collective state, cross section for inelastic, (T), 22:42143
scattering by tin-118, effects of knockout-exchange mechanism on inelastic, (T), 24:40718
scattering by tin-120 at 10 to 40 MeV, optical-model analysis of elastic, (E/T), 24:3953(R) (ORNL-4433)
scattering by tin-120 at 14.7 MeV, angular distributions for inelastic, (E), 24:38207 (INSJ-116)
scattering by tin-120 at 20.6, 25.2, 30.6, and 36.2 MeV, differential cross sections for elastic and inelastic, (E), 22:29984 (ORNL-4252)
scattering by tin-120 at 30 MeV, p-γ coincidence spectra and proton spin-flip probability for inelastic, (E), 24:18358
scattering by tin-120 at 7 to 10 MeV, isobaric analog resonances in elastic, (E), 22:11949(R) (ORO-2972-47)
scattering by tin-120 at 9.6 MeV, S-matrix analysis of differential cross sections for elastic, (T), 25:56789
scattering by tin-120, -122, and -124 at 9.85 to 10.90 MeV, angular distributions and polarization for elastic, (E), 25:10044
scattering by tin-124 at 7.50 to 8.75 MeV, isobaric analog resonances in, (E), 21:38301(R) (RLO-1388-13)
scattering by tissue-equivalent gas mixtures at 2.78 MeV, measurement of multiple, 25:8482 (NYO-2740-7, pp 112-53)
scattering by titanium isotopes at 4.75 to 5.15 MeV, energy levels from, (E), 21:40414
scattering by titanium, intermediate-coupling model analysis of inelastic, (T), 23:13305(R) (COO-1573-48)
scattering by titanium-46 and -48 at 15 MeV, differential cross sections and spectra for elastic and inelastic, (E), 21:38274
scattering by titanium-46 at 21.2 MeV, energy spectra and angular distribution from inelastic, (E), 22:29968
scattering by titanium-46 at 26.0 MeV, angular distributions for elastic, (E/T), 22:26965
scattering by titanium-46 at 5.0 MeV, energy levels from inelastic, (E), 21:31738 (TID-23854)
scattering by titanium-46 at 6.5 to 6.8 MeV, energy-level spins and transitions from inelastic, (E), 22:9821
scattering by titanium-46 at 8 MeV, p—γ angular correlations in inelastic, (E), 22:53136
scattering by titanium-46 near 5.5 MeV, γ linear polarization from inelastic, (E), 25:31288
scattering by titanium-46, -48, and -50 at 14 MeV, angular distributions for elastic and inelastic, (E), 24:15849
scattering by titanium-47 at 7.5 and 12 MeV, cross sections for inelastic, (E), 23:34765
scattering by titanium-48 and -50 at 1 to 1.4 MeV, proton yields from elastic, (E), 24:49791
scattering by titanium-48 at 1358 to 1370 keV, excitation function for elastic, (E), 25:53608(R) (NP-18698)
scattering by titanium-48 at 4 to 6 MeV, differential cross sections and p-γ angular correlations for inelastic, (E), 22:9832
scattering by titanium-48 at 4.75 MeV, energy levels from inelastic, (E), 21:31738 (TID-23854)
scattering by titanium-48 at 6 MeV, p—γ angular correlations for inelastic, (E), 23:1844
scattering by titanium-48 at 6.1 to 6.9 MeV, spectra and angular correlations for inelastic, (E), 23:34752
scattering by titanium-48 at 7.8 MeV, p-γ coincidence spectra for inelastic, (E), 23:37170

scattering by titanium-48, chromium, and zinc-64 at 40 MeV, differential cross sections for, (E), 25:59739 (ORNL-TM-3591)
scattering by titanium-49 at 10 MeV, cross section for inelastic, (E), 23:15418
scattering by titanium-50 at 1.3 to 1.4 MeV, excitation function for elastic, (E), 25:28226
scattering by titanium-50 at 1.4 MeV, excitation function for elastic, (E), 24:28754
scattering by titanium-50 at 1363 to 1379 keV, excitation function for elastic, (E), 25:53608(R) (NP-18698)
scattering by titanium-50 at 2.8 to 3.6 MeV, γ spectra and excitation functions for inelastic, (E), 25:34064
scattering by titanium-50 at 3.4 to 3.7 MeV, excitation functions for elastic, (E), 25:53608(R) (NP-18698)
scattering by titanium-50 at 3.4 to 7.1 MeV, (E), 24:6876
scattering by titanium-50 near 2.5 MeV with isobaric analog excitation, proton spectra from elastic, (E), 25:14982 (NCSAC-31)
scattering by tritium at 13.6 MeV using polarized beam, asymmetry and angular distribution for elastic, (E), 25:28164 (LA-4576)
scattering by tritium at 13.6 MeV using polarized beam, asymmetry for elastic, (E), 25:5521 (LA-4465, pp 28.1-2)
scattering by tritium at 13.6 MeV using polarized beam, asymmetry in elastic, (E), 25:53551
scattering by tritium at 13.6 MeV, angular distribution for elastic, (E), 25:28164 (LA-4576)
scattering by tritium at 13.600 MeV, analysing power from elastic, (E), 25:45900
scattering by tritium at 13.600 to 19.480 MeV, phase-shift analysis of differential cross sections for elastic, (E/T), 25:45900
scattering by tritium at 14 MeV, angular distributions for, (E), 22:20578 (WASH-1079)
scattering by tritium at 156 MeV, proton polarization from elastic, 25:48015
scattering by tritium at 3 to 11 MeV, angular distributions and excitation function for elastic, (E), 22:20435
scattering by tritium at 3 to 11 MeV, elastic, (E), 21:29880(R) (ANU-P-379)
scattering by tritium at 3.1 to 4.6 MeV, differential cross sections and polarization for elastic, (E), 23:1786
scattering by tritium at 3.16, 3.86, and 4.53 MeV, proton polarization in elastic, (E), 21:44550
scattering by tritium at 300 to 990 keV, angular distributions from elastic, (E), 21:33873(T) (NP-tr-1543, pp 1-50)
scattering by tritium at 4 to 12 MeV using polarized beam, angular distributions for elastic, (E), 25:53550
scattering by tritium at 5.35 to 5.65 MeV, search for helium-4 resonance in excitation function for elastic, (E), 25:43782
scattering by tritium at low energies, phase-shift analysis of differential cross sections for, (T), 25:53526
scattering by tritium near 5.45 MeV, search for resonance in elastic, (E), 25:53553
scattering by tritium up to 3.4 MeV, polarization in elastic, (T), 25:53549
scattering by tritons, use of Feynman diagrams to determine position of resonances in elastic, (T), 22:18337
scattering by tungsten at 400 keV, energy and temperature dependence of directional effects in, (E), 22:26472
scattering by tungsten at high energy, analysis for recoil-nucleus effects in, (T), 25:59814
scattering by uranium at 20 GeV/c, multiple diffraction theory for elastic and inelastic, 25:1568
scattering by vanadium-51 at 2.2 to 3.2 MeV with excitation of isobaric analog resonances, γ spectra for inelastic, (E), 23:25850 (CONF-690310-4)
scattering by vanadium-51 at 2.5 to 5.5 MeV, excitation function for, (E), 21:7722(R) (AEET-254)
scattering by vanadium-51 at 2.5 to 5.5 MeV, excitation functions for, (E), 21:15512 (CONF-660221-, pp 89-92)
scattering by vanadium-51 at 2.5 to 5.5 MeV, excitation functions for elastic and inelastic, (E), 21:17340(R) (AEET-267)
scattering by vanadium-51 at 23 to 6 MeV, γ spectra from inelastic, (E), 25:3593 (COO-1530-21)
scattering by vanadium-51 at 4.0 to 5.5 MeV, fluctuation analysis of excitation functions for elastic, (E), 22:27064
scattering by vanadium-51 at 4.0 to 5.5 MeV, fluctuation analysis of cross section for elastic, (E/T), 22:32532
scattering by vanadium-51 at 4.00 to 5.52 MeV, excitation function for elastic, (E), 22:24835(R) (BARC-305)
scattering by vanadium-51 at 4.005 to 5.515 MeV, cross sections for elastic, (E), 22:20529
scattering by vanadium-51, fluctuation analysis of chromium-52 levels from elastic, (E), 22:7569(R) (BARC-291)
scattering by various nuclei at 28 and 31 MeV, optical-model analysis of, (T), 24:38376
scattering by xenon-136 at 10 to 13 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 23:42915 (ORO-2972-87)
scattering by xenon-136 at 9.77 to 12.89 MeV, isobaric analog resonances in, (E), 24:40640
scattering by xenon-136 at 9.8 to 12.6 MeV, differential cross sections for elastic and inelastic, (E), 21:31834(R) (ORNL-4082)
scattering by xenon-136 at 9.8 to 12.6 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:11949(R) (ORO-2972-47)
scattering by xenon-136 at 9.8 to 12.6 MeV, resonances in elastic and inelastic, (E), 22:35293(R) (ORNL-4230)
scattering by xenon-136 at 9.8 to 13 MeV with excitation of isobaric analog resonances, angular distributions for inelastic, (E), 23:17110
scattering by xenon-136 at 9.8 to 13 MeV with isobaric analog excitation, proton spectra for elastic, (E), 23:37275
scattering by xenon-136, excitation functions and angular distributions for elastic and inelastic, (E), 24:18413
scattering by xenon-136, isobaric analog resonances in elastic and inelastic, (E), 23:1881 (ORNL-TM-2364)
scattering by ytterbium isotopes at 10 to 13 MeV, excitation functions and isobaric analogue resonances for elastic, (E), 25:17945
scattering by ytterbium-170, -172, -174, and -176 at 11 to 16 MeV, excitation functions for elastic and inelastic, (E), 25:45948 (CEA-N-1390, pp 1-90)
scattering by ytterbium-170, ytterbium-172, ytterbium-174, and ytterbium-176, isobaric analog resonances in elastic, (E), 23:1889
scattering by ytterbium-172 and -174 at 10 to 13 MeV, excitation functions for elastic and inelastic, (E), 21:38344
scattering by ytterbium-172 at 11.5 to 13 MeV with isobaric analog excitation, excitation function for inelastic, (E), 24:3917 (CEA-CONF-1324)
scattering by ytterbium-176 at 19 MeV, angular distributions for elastic and inelastic, (E), 25:9966(R) (COO-1265-94)
scattering by yttrium and zirconium isotopes at 50 MeV, angular distributions and polarization for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by yttrium-89 and zirconium-90 at 61 MeV, analysis using realistic interaction, (T), 25:53752(R) (ORNL-4659)
scattering by yttrium-89 and zirconium-90 at 61.2 MeV, microscopic-model analyses of inelastic, (E/T), 25:43855
scattering by yttrium-89 at 14.5 MeV, optical-model and DWBA analysis of elastic and inelastic, (E/T), 21:33963(R) (NP-16498)
scattering by yttrium-89 at 14.7 MeV, differential cross sections and proton spectra for elastic and inelastic, (E) , 21:46697
scattering by yttrium-89 at 18.8, 24.5, and 61.2 MeV, analysis using antisymmetrized distorted wave theory, (T), 25:34192
scattering by yttrium-89 at 19 MeV, energy levels from inelastic, (E/T), 21:31756
scattering by yttrium-89 at 19 to 61 MeV, core polarization in inelastic, (T), 24:43255
scattering by yttrium-89 at 24.5 MeV, collective and microscopic model analysis of angular distributions for inelastic, (E/T), 23:15391
scattering by yttrium-89 at 5.0 to 6.5 MeV, zirconium-90 isobaric analog states from inelastic, (E), 21:7795
scattering by yttrium-89 at 5.5 to 11 MeV, cross sections for inelastic, (E), 22:5808
scattering by yttrium-89 at 6.4 MeV, isobaric analog states from inelastic, (E), 21:25530
scattering by yttrium-89 at 61 MeV, differential cross sections for inelastic, (E), 24:3902
scattering by yttrium-89 at 61 MeV, differential cross sections for, (E), 22:1630
scattering by yttrium-89 at 61.2 Mev, antisymmetrized distorted-wave analysis for spin flip in, (T), 24:43281
scattering by yttrium-89 at 7 to 9 MeV, elastic, (E), 21:12006
scattering by yttrium-89 at 7.04 to 7.61 MeV with isobaric analog resonance excitation, differential cross section and polarization for elastic, (E), 23:17122
scattering by yttrium-89 at 7.1 to 7.6 MeV, differential cross sections and proton polarization for elastic, (E), 24:10964
scattering by yttrium-89 at 9.06 and 9.98 MeV, proton spectra from inelastic, (E), 22:44659
scattering by Z = 26 to 30 nuclei at 28 MeV, elastic, (E/T), 21:7688(R) (USC-136-114)
scattering by Z = 3 to 92 nuclei at 20 GeV, partial-wave analysis using strong absorption model, (T), 21:19324
scattering by zinc-64 and zinc-68 at 30 MeV, polarization for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by zinc-64 at 2 to 6 MeV, inelastic, (E), 21:5435(R) (TID-23395)
scattering by zinc-64 at 26 MeV, angular distributions for elastic and inelastic, (E), 23:8966
scattering by zinc-64 at 26 MeV, DWBA analysis using collective-model form factors, (E), 23:10936(R) (COO-535-591)
scattering by zinc-64, -66, -68, and -70 at 49 MeV, differential cross sections for elastic and inelastic, (E), 22:27027
scattering by zinc-64, zinc-66, and zinc-68 at 30 MeV, cross sections for elastic and inelastic, (E), 23:30923(R) (RHEL/R-170)
scattering by zinc-64, zinc-66, and zinc-68 at 40 MeV using polarized beams, polarization angular distributions for elastic, (E), 23:1929(R) (COO-1265-67)
scattering by zinc-64, zinc-66, zinc-68, and zinc-70 at 50 MeV, differential cross sections for elastic and inelastic, (E), 21:31737 (RHEL/R-136, pp 28-51)
scattering by zinc-66 and zinc-68 at 2.8 to 4.2 MeV, isobaric analog resonances in inelastic, 23:5863
scattering by zinc-66 at 11 MeV, proton spectra from inelastic, (E), 21:38285
scattering by zinc-66 at 55 MeV, angular distributions for inelastic, (E), 24:43247
scattering by zinc-66 at 55 MeV, differential cross sections for inelastic, (E), 22:26986
scattering by zinc-66 at 55.01 MeV, angular distributions from, (E), 23:40006
scattering by zirconium-90 and -92 at 15 MeV, differential cross sections and spectra for inelastic, (E), 21:38331
scattering by zirconium-90 and -92, cross-section calculations using Hamada—Johnston potential with exchange terms for inelastic, (T), 23:44920
scattering by zirconium-90 and zirconium-91 at 12.0 MeV, proton spectra from inelastic, (E), 24:6942
scattering by zirconium-90 and zirconium-91 at 9.5 to 14.0 MeV, elastic, (E), 24:52594
scattering by zirconium-90 and zirconium-92 at 14.5 MeV, optical-model and DWBA analysis of elastic and inelastic, (E/T), 21:33963(R) (NP-16498)
scattering by zirconium-90 and zirconium-92 with excitation of isobaric analog resonances, neutron spectroscopic factor from elastic, (T), 22:50671
scattering by zirconium-90 at 14 to 16 MeV, cross sections and polarization for elastic, (E/T), 23:7322
scattering by zirconium-90 at 14.8 and 16 MeV, optical model analysis of elastic, (E/T), 23:37280
scattering by zirconium-90 at 4.5 to 10.0 MeV, excitation functions for elastic and inelastic, (E), 21:17381
scattering by zirconium-90 at 4.6 to 4.8 MeV with isobaric analog excitation, differential cross sections for elastic, (E), 24:43444
scattering by zirconium-90 at 4.6 to 4.8 MeV with isobaric analog excitations, excitation functions for elastic, (E), 23:49408
scattering by zirconium-90 at 5 to 7 MeV, analysis of isobaric analog resonances in, (T), 22:32725
scattering by zirconium-90 at 6 to 10 MeV with excitation of isobaric analog resonances, angular distributions and excitation functions for elastic and inelastic, (E), 23:7300
scattering by zirconium-90 at 6 to 10 MeV, angular distributions and excitation functions for elastic and inelastic, (E), 24:30859
scattering by zirconium-90 at 6 to 10 MeV, isobaric analog resonances in elastic and inelastic, (E), 22:11949(R) (ORO-2972-47)
scattering by zirconium-90 at 6 to 7 MeV, differential cross sections and spin-flip probability for inelastic, (E), 21:40429(R) (RLO-1388-23)
scattering by zirconium-90 at 6.20 to 6.25 MeV with isobaric analog excitation, excitation function for, (E), 24:35866
scattering by zirconium-90 at 6.6 to 7.1 MeV, polarization in, (E), 21:13796(R) (ORO-2972-25)
scattering by zirconium-90 at 6.6 to 7.1 MeV, spin and parity of analog resonances for elastic, (E), 21:25523
scattering by zirconium-90 at 61.2 MeV, calculations using Gaussian potential of differential cross sections for high-spin states in inelastic, (T), 25:43915
scattering by zirconium-90 at 61.4 MeV, analysis using antisymmetrized distorted wave theory, (T), 25:34192
scattering by zirconium-90 at 61.4 MeV, differential cross sections for elastic, (E), 21:27559
scattering by zirconium-90 with isobaric analog excitation, analyzing power for elastic polarized, (E), 24:13363
scattering by zirconium-90 with isobaric analog excitation, R-matrix analysis of inelastic, (T), 25:28364
scattering by zirconium-90, -92, and -94 at 12.7 MeV, angular distributions for elastic and inelastic, (E), 22:27108
scattering by zirconium-91 at 10 to 13 MeV, excitation functions and spectra for elastic, (E), 21:40407
scattering by zirconium-91 at 14.5 MeV, DWBA and optical-model analyses of elastic and inelastic, (E/T), 24:8916
scattering by zirconium-91 at 18.7 MeV, angular distributions for inelastic, (E), 23:23681
scattering by zirconium-92 and -94 at 19 MeV, angular distributions for elastic and inelastic, (E), 22:11942
scattering by zirconium-92 and zirconium-94 at 19.4 MeV, shell-model calculations for elastic, (T), 21:11991(R) (UCOL-535-561)
scattering by zirconium-92 and zirconium-94 at 19.4 MeV, angular distributions for elastic and inelastic, (E/T), 21:2715
scattering by zirconium-92 at 4.7 to 8.6 MeV with isobaric analog excitation, proton polarization in elastic, (E), 25:28368
scattering by zirconium-92 at 5 to 9 MeV, excitation function for elastic, (E), 21:25520
scattering by zirconium-92 at 6 to 10 MeV with isobaric analog excitation, excitation functions for elastic and inelastic, (E), 24:24577
scattering by zirconium-92 at 6 to 10 MeV, isobaric analog resonances in inelastic, (E), 23:19253(R) (ORO-2972-80)
scattering by zirconium-92, isobaric analog resonances in, (T), 22:42133
scattering by zirconium-94 at 12.7 MeV, 21:2707 (ORNL-3994, pp 1-26)
scattering by zirconium-94 at 6 to 8.5 MeV, angular distributions and excitation functions for elastic and inelastic, (E), 25:12564
scattering by zirconium-94 at 6.5 to 8.5 MeV with isobaric analog excitation, angular distributions for inelastic, (E), 23:42937
scattering by zirconium-96 at 10 to 13 MeV, excitation functions for elastic and inelastic, (E), 23:28313
scattering by zirconium-96 at 11 to 12 MeV using polarized beam, threshold effects in isospin-coupled channels of elastic, (E), 25:53791
scattering by zirconium-96 at 19.4 MeV, angular distributions for inelastic, (E/T), 21:11991(R) (UCOL-535-561)
scattering by zirconium-96 at 19.4 MeV, differential cross sections for elastic and inelastic, (E), 22:1679
scattering by zirconium-96, isobaric analog resonances in elastic and inelastic, (E), 23:17103(R) (ANL-7481)
scattering cross sections for p-shell nuclei, calculations using rectangle diagrams for inelastic, (T), 22:50683
scattering elastically and inelastically by lead-207 with isobaric analog excitation, analysis using one-level approximation, (T), 24:49931 (RLO-1388-578)
scattering elastically by deuterium, analysis using Faddeev method with Coulomb Green's function, (T), 24:15781
scattering elastically by helium-4, carbon-12, and oxygen-16 at 1 GeV, analysis for two-body correlations using optical potential, (T), 24:38092

scattering elastically by lead-208 at 30, 40, and 61 MeV, optical model analysis using Woods—Saxon potential, (T), 24:30857
scattering from amorphous tungsten oxide surface at 275 keV, spectra of low-angle, (E/T), 25:58689
scattering from beryllium thin films on silver at 3 MeV, thickness measurement using back-, 25:44717
scattering from copper at 40 to 120 keV, effect of lattice structure and temperature on back, 23:6876 (IPP-2/68)
scattering from crystals, diffraction effect in, 21:29346
scattering from evaporated film surfaces of copper and gold at 6 to 40 keV, (T), 22:41334
scattering from even-even A = 48 to 76 nuclei at 11 MeV, cross sections for inelastic, (E/T), 24:28736 (ORNL-TM-2861)
scattering from niobium single crystals at 100 keV, effects of lattice defects on back-, 25:27840 (IPP-7/3)
scattering from nuclear collective states, (E/T), 21:42669
scattering from phosphorus-ion implanted diamonds, back-, 25:27858
scattering from silicon single crystals, quantum-mechanical near-field effects in isotopic effect in, 25:1296
scattering in atmosphere, neutron yields from primary, (E), 21:24942(R) (BSR-2018)
scattering in crystal lattices, use in crystallography, 22:26451 (AERE-R-5743)
scattering in helium-4, asymmetry and polarization for, (E), 23:46909
scattering in nuclear emulsions at 5 to 24 GeV/c, multiple Coulomb, (E), 22:46331
scattering in nuclear emulsions, use of track lengths for studying multiple, 22:21323
scattering in single crystal gold films at 1 to 17 keV, critical angles for channeling in, (E), 21:13362
scattering in tungsten single crystals, Rutherford, 21:33535
scattering in various materials at 0.1 to 1000 MeV, calculation of energy loss, inelastic collisions, multiple scattering, pathlength, range, and straggling, (T), 21:9637(R) (AD-643837)
scattering inelastically by calcium-48 at 12 MeV, calculation including exchange effects and two-step transfer processes, (T), 25:7888 (UCRL-19530, pp 107-62)
scattering inelastically by carbon-12, calcium-40, and lead-208, cross-section calculations using microscopic model, (T), 24:49919 (CEA-R-4000)
scattering inelastically by copper-63 at 12 MeV, analysis using coupled-equation method and DWBA, (T), 24:49918 (CEA-R-3950)
scattering inelastically by iron-56, lead-208, nickel-58, and tin-120 at 30.3 MeV, optical-model analysis using potential derived from nuclear matter distributions, (T), 25:53717
scattering inelastically by nuclei with isobaric analog excitation, description for, (T), 24:38379
scattering inelastically by nuclei, cross-section calculations using quadrangular graphs, (T), 24:38380
scattering inelastically by nuclei, microscopic description using DWBA with antisymmetrization, (T), 24:43527
scattering inelastically by tin-116, -118, and -120 at 155 MeV, analysis using microscopic model, (T), 24:43406
scattering inelastically in air, water, and nuclear emulsions of cosmic, cross sections for, (T), 22:22299
scattering measurements on beryllium-9, boron-10, and carbon-12 at 140 MeV, triple, 21:21450
scattering MeV by even samarium isotopes at 9 to 12, isobaric analog resonances in elastic, (E), 21:23522
scattering of 10^{13} eV cosmic, on atmospheric nuclei, (E), 22:2830
scattering of argon-40 at 30.4 and 49.4 using polarized and unpolarized beams, differential cross sections for elastic and inelastic, 25:31233
scattering of electrons by, radiative corrections for inelastic, (T), 21:13391
scattering of polarized, by deuterium at 1 to 3 MeV, (E), 21:4195
scattering of polarized, by helium-4 at 0.94 to 3.2 MeV, (E), 21:2618
scattering of polarized, by helium-4 at 0.94 to 3.2 MeV, (E), 21:1024
scattering of polarized, by helium-4 at 3.38 and 7.80 MeV, polarization analyzing power and phase-shift analysis for elastic, (E), 25:3557
scattering of polarized, by magnesium-24 for production of circularly polarized photons, inelastic, 24:30731
scattering of polarized, by samarium-152 at 24.5 MeV asymmetries and differential cross sections for elastic and inelastic, (E), 25:25788
scattering of polarized, Coulomb interference in elastic, (T), 23:32958
scattering of polarized, review of recent experiments on, 21:46765
scattering of primary cosmic, on starlight and cosmic-background microwaves, (T), 24:3209
scattering on aluminum, copper, and lead at 325.7 MeV, angular distributions from, 22:31903
scattering on aluminum, copper, and ytterbium thin films, surface density determinations from, 21:15222
scattering on argon at 5 to 50 keV, cross sections for, 21:35019
scattering on carbon at 10^{10} to 10^{12} eV, cross sections for inelastic, 21:18472(T) (UCRL-Trans-1340)
scattering on copper and magnesium—silver alloys, secondary electrons from, 21:13348 (ORNL-4063, pp 71-87)
scattering on copper monocrystals at 60 to 120 keV, reversibility rules in back-, 24:6342 (IPP-2/80)
scattering on gases at 100 to 2500 keV, charge-exchange cross sections for, 21:13348 (ORNL-4063, pp 71-87)
scattering on helium at 100 to 1000 keV, polarization of the 3^1P—2^1S transition in, (E), 22:7151
scattering on helium at 200 to 300 keV, electron energy and angular distributions from, 21:37104
scattering on hydrogen, charge exchange in, (T), 21:43806
scattering on muscovites at 94 to 294 keV, angular distributions from, 22:49982 (JINR-P15-3998)
scattering on nickel foils at 15 to 90 keV, angular distributions from, (E), 22:11211
scattering on noble and diatomic gases at 10 to 140 keV, ionization and electron capture cross sections from, (E) , 21:14987
scattering on oxygen at 30 to 300 eV, hydrogen angular distributions from, 21:11444
scattering on pure and alloyed copper and gold at 30 to 100 keV, structure analysis from, 22:17786
scattering on rare gases at 1 to 3 MeV, ionization cross sections for, 21:11430
scattering on solids, effects of particle interactions on Bragg curve for, 22:52852 (JINR-P1-4000)
scattering on surfaces, microanalysis from, 21:629
scattering on tungsten single crystals at 500 keV, channeling in, 21:44196
scattering on turbulent plasma oscillations, (E), 25:1180
scattering on xenon embedded in potassium chloride, (T), 21:16970
shielding against, use of rotatable slats of shielding materials for, 21:6126(P)
shielding effectiveness of space vehicles against, method for measuring, 23:1510(P)
shielding manned Mars vehicles from solar, 21:817
shielding of astronauts against solar, electrostatic, 21:23236 (N-66-19708)
shielding, measurement of the straight-ahead approximation, 21:7318
solar events involving, proposed classification of, 25:27356
source of outer radiation belt, 21:9443
spallation of aluminum-27 at 660 MeV, energy and angular distribution of lithium-8 fragments from, (E), 25:53695
spallation of aluminum-27, copper, iron, and nickel at 590 MeV in thin and thick targets, yields for, (E), 25:48073 (IN-1407, pp 1-82)
spallation of cobalt-59, copper-63, and copper-65, analysis using Weisskopf evaporation theory, (T), 23:19384
spallation of gold-197 at 3 GeV, nitrogen-19 and oxygen-21 production in, (E), 23:1885
spallation of heavy elements at 24 GeV, identification and half-life determination of neutron deficient nuclei in, (E), 24:3927
spallation of oxygen with beryllium-10 production, determination of cross section from abundance of cosmic-ray produced beryllium-10, 24:3854
spallation of uranium at 5.5 GeV, yields of light elements in, (E), 25:56788
spallation reactions with aluminum-27, copper, iron, and nickel at 590 MeV, yields for, (E), 25:45970
spectra and time history at 1100 km of, produced by solar flare of February 5, 1965, 21:43842
spectra and time history of solar, at 1100 km, 21:43689 (N-67-21457)
spectra at L = 2 to 3 in magnetosphere, (E), 22:34354 (AD-661562)
spectra for solar, dosimetric evaluation of rigidity, 21:4794 (N-66-30785)
spectra from inelastic π^- + N interactions at 17 GeV/c in nuclear emulsions, 22:22315
spectra from π^- + p interactions at 7.0 GeV/c in hydrogen bubble chamber, transverse and longitudinal momentum, (E), 23:27757
spectra from uranium-235 thermal neutron fission, (E), 22:3693 (INR-822/IA/PL)
spectra in cosmic radiation, (E), 21:37193(R) (N-67-18124)
spectra in inner radiation belts, time variation of low-energy, (E), 25:1073
spectra in magnetosphere of low-energy, cinematographic display of, (T), 22:36791 (AD-662228)
spectra in magnetosphere, energy, 23:27444(R) (N-69-14773)
spectra in magnetosphere, satellite-borne detector system for measuring, 24:22990 (UCRL-50745)
spectra in midnight luminous aurorae, comparison with proton, (E), 25:27578
spectra in outer radiation belt, satellite measurements of, 21:9436
spectra in primary cosmic radiation, (E), 22:36767
spectra in solar flare of Sept. 2, 1966, (E), 22:36561 (N-68-10375)
spectra of 2 to 30 keV, in large auroral substorm during recovery phase, (E), 25:47399
spectra of 5.2- to 81.7-MeV solar and primary cosmic, (E), 25:30161
spectra of auroral-zone, (E), 22:31709
spectra of cosmic, design of cosmic-ray telescope for measuring differential, 21:32431
spectra of cosmic-ray, (T), 22:38828
spectra of delayed, in decay of argon-33, calcium-37, neon-17, silicon-25, and titanium-41, (E), 21:21963 (BNL-994, pp 3-19)
spectra of flare-produced, (E), 22:17214
spectra of geomagnetically trapped, (E), 23:27429(R) (AD-681006)
spectra of impurity-trapped, in rutiles, infrared, (E), 22:3163 (COO-1434-04)
spectra of low-energy cosmic primaries at 70 to 150 MeV, (E), 21:7043
spectra of low-energy, in cosmic radiation, 22:5159
spectra of low-energy, in geomagnetic field, 21:31262
spectra of low-energy, in primary cosmic radiation at solar minimum, (E), 21:35049
spectra of primary cosmic, (E), 22:34295
spectra of radiation belt, (T), 25:5033
spectra of solar and primary cosmic, (E), 21:37219
spectra of solar, (T), 22:23926
spectra of solar, method for measuring, 23:34233
spectra of solar, upper cutoff in, (E/T), 25:13910
spectra of splash and re-entrant cosmic albedo, 21:27020 (N-67-12219)
spectra of trapped, from L = 2 to 3, (E), 22:47924
spectra of trapped, spacecraft measurements of, 21:43894(R) (N-67-23326)
spectra of, computer program for least-squares analysis of recoil, 22:33662
spectra of, in solar wind, (E), 25:9102
spectra of, nonthermal effects in Stark broadening, (T), 25:1205
spectra of, satellite instrumentation for measuring energy and angular, 21:11502
spectra, relation of solar modulation to intensity and energy, 21:29041
spectral emission in solar radiation, flare-associated high-energy, (E/T), 25:27354
spectral intensity in interplanetary space, Feb. 25-28, 1969, (E), 25:27558
spectroscopy of 100-MeV, design of germanium total-absorption spectrometer for, 22:349
spectrum in upper atmosphere, intensity and energy, 21:25036
spectrum of accelerated, at stellar surfaces, (T), 23:14453
spectrum of cosmic, effects of radio-galactic origin on, (T), 21:29030
spectrum of cosmic, solar system and interstellar space effects on, (T), 21:5094 (N-66-30336)
spectrum of, in low-energy primary cosmic radiation, (E), 22:21965
spin polarization in nuclear-spin refrigerator using yttrium ethyl sulfate crystal containing ytterbium ions, (E/T), 24:30304
spin relaxation in paramagnetic ion solutions, 22:16530
spin—lattice relaxation in solid deuterated and normal acetonitrile, NMR measurements of, 22:31951
spin—lattice relaxation time in plutonium hydride, NMR study of, 25:7494
spin-lattice relaxation in lanthanum magnesium nitrates at high fields and low temperatures, 21:42506
spin-lattice relaxation in ytterbium ion-doped yttrium ethyl sulfate at low temperatures, 21:42508
spin-lattice relaxation time in lanthanum magnesium double nitrate, radiation damage effects on, 21:42513
spin-lattice relaxation time in methane, 22:6308
spin-lattice relaxation times in liquid ammonia and liquid hydrogen sulfide, 21:21912 (INP-507/PL)
stability in inner radiation belt, temporal, 21:9433
stopping by acetylene, air, ethylene, methane, and nitrogen at 80 to 500 keV, (E), 23:22885
stopping by atoms, (T), 21:41773
stopping by carbon, helium, hydrogen atoms, and lithium, calculation of cross sections for, 23:22885
stopping cross sections in metals with Z = 24 to 29 at 30 to 140 keV, electronic, (E), 24:12634
stopping in aluminum oxide films at 20 to 100 keV, (E), 23:30347
stopping in aluminum, gold, lithium, and silver at 20 to 1000 keV, electronic, (T), 25:59124
stopping in argon, effect of interaction potential on calculated cross sections for, 24:37219(R) (ORO-2911-12)
stopping in elements Z = 20 to 30, excitation potentials and shell corrections from, 23:27330
stopping in gases and solids, review, (E), 25:19762
stopping in gases at 100 to 500 keV, (E), 25:43432
stopping in vanadium at 559, 1776, and 1984 keV, cross sections for, 22:11538
stopping of extreme relativistic, in aluminum, copper, and lead, contributions of spin, anomalous magnetic moment and form factors to, (T), 23:46743
stopping power and range in materials at high energies, approximate density-effect correction for ionization loss in, 24:20096 (ORNL-TM-2868)
stopping power in aluminum and tantalum at 5 to 14 MeV, deviations from Bethe formula for, (E), 23:15414
stopping power in aluminum at extreme relativistic energies, calculations, 24:39809 (ORNL-4446, pp 163-76)
stopping power in carbon, aluminum, and silver films, 25:38532
stopping power in gold at 100 keV, channeling effect on valence electron contribution to, (T), 24:51804
stopping power in silicon planar channels of 0.4-MeV, effects of oscillation frequency on, 25:43455
stopping power of hydrogen gas, energy partition analysis of, 25:38524 (BNWL-1551(Pt.2), pp 86-9)
stopping powers of gadolinium, tantalum, and zirconium at 5 to 12 MeV, excitation potential in, 24:6347
storage in circular storage-ring ion traps derived from linear quadrupole rf mass filters, 23:39879
storage near Sun, relation of differential-energy spectra of 0.3- to 25-MeV protons with, (E/T), 25:16696
storage of relativistic, in solar corona, (E/T), 25:19403
structure corrections to hydrogen hyperfine splitting, 21:19005
structure determination from e + p interactions at very high energies, internal, (E/T), 25:36445
structure effects on hyperfine splitting of hydrogen atom, 21:33195
structure from multiple scattering mechanism of p + p elastic interactions, composite, (T), 23:44672
structure function for, scale invariance of inelastic, 25:27995
structure function from e + p inelastic interactions at 7 to 17 GeV at 6 and 10°, (E), 23:51837
structure functions for, quark—parton-model inequalities for inelastic, 25:38705
structure functions for, scale-invariant light-cone SU(3) x SU(3) current commutators for, (T), 25:5328
structure functions from e + p inelastic interactions at 19.5 GeV, (E), 24:51882 (SLAC-PUB-796)
structure functions of, quark—parton model inequalities for inelastic, (T), 25:33731 (SU-1206-244)
structure model of, hadronic core distributions in, 24:8671

structure of, existence of virtual level in pion system for halo, 22:41820
structure of, from e^- + p and p + p interactions, 21:17112 (CERN-67-3)
structure of, hyperfine splitting of hydrogen atom for corrections to Fermi formula for, (T), 24:42978
structure of, impact parameter theory for hadronic, 22:9700 (NYO-2262-TA-165)
structure of, optical model description for hadronic, 23:23502
structure of, review of, (E/T), 23:49156
structure of, theory for internal, 22:46349
superconductivity of, in neutron stars, 24:15049
symmetry for, determination of internal, (T), 24:6734 (COO-1573-64)
synchrotron emission from relativistic, in compact radio sources, (T), 22:41197
targets of polarized, development of neodymium-doped lanthanum magnesium nitrate, 25:20135 (RHEL/R-201)
targets of polarized, performance of ammonium aluminum sulfates and potassium aluminum sulfates, 25:53477
targets of, 0.4 K cryostat for polarized, 25:53479
targets of, frozen polarized, 25:53480
temperature gradient along field lines in outer plasmasphere, (T), 24:5045 (N-69-33375)
temperature in solar wind and interplanetary magnetic field lines, 22:2938
temperature in solar wind, effects on double shock-wave structure, (E/T), 23:12492
temperature of solar-wind, (T), 25:40268
temperature of solar-wind, (T), 24:15081
temperatures of ionospheric, (E/T), 22:31701
theory as composite particles, 22:17966
theory for compositeness of, theorem on vanishing of Z_1 for, (T), 25:53189
theory for Sakata triplet (p, n, Λ), Lagrangian in SU(3) symmetry for, 22:17994
thermal diffusive equilibrium density profiles of, in topside ionosphere, (E), 23:36589
track measurements in nuclear emulsions, use of photographic scanning techniques for, 22:36082
track registration in cellulose nitrate at energies down to 55 keV, (E), 21:8614
tracks in nuclear emulsions, use of microscope-television system for counting recoil, 21:26159 (UCRL-50007-66-2, pp 28-30)
trajectories in geomagnetic field, (T), 21:9451
trajectories of low-energy cosmic, in model atmosphere, (T), 22:17428
transfer in heavy-ion reactions, (T), 24:49740
transfer in nitration of anthracene, slow, 21:23879
transfer of, in bromination of 2-methylbutyrophenone, isotope effects on, 21:12430
transmission in crystals, wave/particle duality in, 21:2316
transmission through gold crystals, channeling-to-random transition in, (E/T), 24:42523
transmission through gold thin crystals, channeling component in 400 keV, (E/T), 23:42398
transmission through silicon at 375 keV, channeling in, (E), 21:2328
transport in aluminum and tissue, comparison of computer codes for, 22:35668 (ORNL-RSIC-22(Pt.2))
transport in fluorine compounds, stopping power and additivity for 1-MeV, (E), 22:17416
transport in ice crystals, semiclassical theory of, (T), 21:22997
transport in matter, Monte Carlo technique for simulation of, 24:47292 (N-70-20031)
transport in shielding, calculations for high-energy, 21:37526
transport of secondary, through W/^{6}LiH shielding, (T), 23:30601 (N-69-15375)
transport through gold and iron crystal foils, channeling effects on, (E), 22:29540 (COO-1053-9)
transport through soft tissue slab, free-nucleon target model calculation of, 24:35525
transport through space vehicle shielding, high-energy, 21:21008
trapping boundaries for 10- to 100-keV, in ring current, (T), 25:58854
trapping boundary associated with polar substorms, variations in high-latitude, (E), 25:49799 (NP-18977)
trapping in equatorial magnetosphere, measurements of, 21:13466
trapping in magnetosphere, pitch-angle distribution of 1- to 100-MeV solar, (E), 22:34134 (AD-661959)
trapping in oxides during irradiation at 1 to 5 MeV, (E), 21:21102
trapping of energetic solar, in auroral zone, (E), 23:25226
trapping of solar, in radiation belts, (E), 23:22825
tunnel effects for, forming hydrogen bonds in DNA molecule, determination of quantum mechanical, 22:44964 (UCRL-50412)
use for determining cross section, thickness, shape, and internal structure, review of, 25:10977
use for therapy of tumors in man, review of, 25:21800
use for therapy, combined effects of radiosensitizing drugs on results of, 21:22645
use for therapy, effects of LET on, 21:28523
use for tumor therapy, methods for improving, 24:34531
use in chemical analysis by excitation of characteristic x rays, 22:11 (ORNL-IIC-10(Vol.2), pp 587-612)
use in chemical analysis by excitation of characteristic x-rays, 22:10 (ORNL-IIC-10(Vol.2), pp 576-86)
use in measuring integrity and thickness of lithium fluoride protective coatings, 24:12369
use in nuclear magnetic double resonance experiments, 22:44217 (UCRL-18278)
use of 100-keV, to produce characteristic x rays for measuring oxygen surface densities, 23:3562
use of 185-MeV, in cancer therapy and neurosurgery, 21:4813 (AD-632702)
use of Bragg peak, for pituitary ablation to control diabetic retinopathy, 21:26550
use of polarized targets for N + p interactions at 14.5 and 23.1 MeV, review of, 22:5501
use of polarized targets of, for testing C, P, T invariance and CPT theorem, 21:19044 (JINR-P2-3217)
use of polarized, for test of CPT invariance, 21:37893
use of polarized, for testing C, P, T invariance and CPT theorem, 21:19044 (JINR-P2-3217)
use of targets of, experimental problems in polarized, 21:5438 (UCRL-17133)
use of, for radiotherapy, 21:12893(T) (UCRL-Trans-1333)
use of, for therapy of neoplasms, biological characteristics affecting, 21:12891 (BNL-9598)
variations in high-latitude trapping boundary of 100- to 200-keV, associated with polar magnetic substorms, (E) , 25:58866
variations of MeV-range, satellite measurements from Dec. 1968 to June 1969 of energy, flux, and time, 23:51264 (CEA-CONF-1403)
velocities of solar wind, satellite HEOS-1 observations of, 24:8288
velocity and temperature in solar wind determined by Mariner II, 21:15026 (N-67-10253)
velocity distribution, anisotropic solar-wind, 22:2938
velocity distributions in solar wind flow around magnetosphere, (T), 21:3758
velocity distributions in the ionosphere, (T), 22:41470
velocity in solar wind, (T), 23:27284 (AD-678101)
velocity of polarized, method for measuring, (E), 21:6990
vertex functions for npd, effect of NπN form factor on, 23:13111
wave function renormalization constant for, dispersion relation for, (T), 23:13127
yield in uranium-235 thermal neutron fission, relative, 23:44883 (INR-1033)
zone of avoidance in interplanetary space of solar, equatorial, (E/T), 25:19437

PROTONS (anti p)
absorption by nuclei at 20 to 40 GeV/c, cross sections for, (E), 25:5265 (CONF-700314-, Paper 4)
absorption by nuclei at 20 to 65 GeV/c, cross sections for, (E), 25:5295
abundance in low-energy galactic cosmic radiation, (E), 21:39841
abundance in Milky Way, (E), 24:12614
abundance in primary cosmic radiation, (T), 22:24086
annihilation in nuclei at rest in emulsions, Monte Carlo calculation using isobar model for, (T), 25:25460
annihilation interactions with protons, (T), 25:33046
capture by atomic phosphorus, potassium, and thallium, x-ray spectra from, 25:47798
capture by nuclei, x-ray spectra from, 25:47799
decay of bound system p anti p → π^+ + π^- + ω^0 at rest, Veneziano model for, 25:45742
detection of 1.5- to 3.3-GeV/c, efficiency of scintillation detectors for, 22:372
detection of cosmic, matter traversal of high-energy primary cosmic rays from measurements for, 23:18465
flux from nucleon pair production by cosmic nucleon reactions with nuclei in upper atmosphere, 21:42392
flux in cosmic radiation, (T), 22:43945
interactions anti p + p at 2 to 3 GeV/c, review of quasi-two-body final states and multiple particle production in, 22:32121
interactions anti p + d → 2π^- + 2p + anti n at 7.0 GeV/c, Δ^0 and Δ^{--} production in, (E), 25:14554
interactions anti p + d → 2π^- + π^+ + p at rest in deuterium bubble chamber, spectator and anti p S-capture in, (E), 25:5271
interactions anti p + d → 2π^- + π^+ + π + p at rest in deuterium bubble chamber, spectator and anti p S-capture in, (E), 25:5271
interactions anti p + d → anti p + 2p + π^0 at 7.0 GeV/c, Δ(1236) production in, (E), 25:14554
interactions anti p + d → anti p + d + π^+ + π^- + π^0 at 7.0 GeV/c, cross sections for coherent, (E), 25:40872
interactions anti p + d → anti p + d + π^+ + π^- + π^0 at 7.0 GeV/c in bubble chamber, anti Δ^{--}(1236) and d^* enhancement production and cross sections for, (E), 25:9636 (TID-25610)
interactions anti p + d → anti p + d + π^+ + π^- at 5.5 GeV/c, (dπ^+) mass enhancement in coherent, (E), 24:49316
interactions anti p + d → anti p + d + π^+ + π^- at 5.5 GeV/c, interpretation of dπ(2200) enhancement in, 24:10668
interactions anti p + d → anti p + d + π^+ + π^- at 7.0 GeV/c, cross sections for coherent, (E), 25:40872
interactions anti p + d → anti p + d + π^+ + π^-(+π^0) at 7.0 GeV/c, cross sections for Δ^{--}(1236) and d^{*++}(2180) enhancement in π^+d effective mass production in, (E), 25:45665
interactions anti p + d → anti p + d at 1.23 and 1.67 GeV/c in deuterium bubble chamber, energy dependence of differential cross sections for, (E), 24:15469
interactions anti p + d → anti p + d at 1.23 to 1.67 GeV/c, differential cross sections for, (E/T), 24:18075
interactions anti p + d → anti p + d at 1.60 to 2.00 GeV/c in deuterium bubble chamber, Glauber-theory analysis of differential and total cross sections for, (E/T), 25:45664
interactions anti p + d → anti p + d at 25 to 100 MeV, cross sections and angular distributions for, (T), 25:50144
interactions anti p + d → anti p + d(p + n) + π^+ + π^- at 7.0 GeV/c in bubble chamber, anti Δ^{--}(1236) and d^* enhancement production and cross sections for, (E), 25:9636 (TID-25610)
interactions anti p + d → anti p + p + n + π^+ + π^- at 7.0 GeV/c, cross sections for coherent, (E), 25:40872
interactions anti p + d → anti p + p + n at 1.23 and 1.67 GeV/c in deuterium bubble chamber, energy dependence of differential cross sections for, (E), 24:15469
interactions anti p + d → anti p + p + n at 1.23 to 1.67 GeV/c, differential cross sections for, (E/T), 24:18075
interactions anti p + d → anti p + p + π^- + π^+ + n at 2.8 GeV/c in deuterium bubble chamber, production of N^*(1400) in, (E), 24:45417
interactions anti p + d → anti p(anti n) + p + π^- + π^0 (π^-) + p at 2.8 GeV/c in deuterium bubble chamber, production of N^*(1400) in, (E), 24:45417
interactions anti p + d → K^- + d(p + n) + Λ at 7.0 GeV/c in bubble chamber, cross sections for, (E), 25:9636 (TID-25610)
interactions anti p + d → K^- + K + π + p at rest, analysis of annihilation channels of, (E), 23:23353
interactions anti p + d → Λ^0 + K + nπ at rest in bubble chamber, three-body interactions in, (E), 23:49168
interactions anti p + d → N + X, differential and total cross sections for heavy quasinuclear meson resonance production in, (T), 25:33772
interactions anti p + d → p + anti p + p + π^- at 5.5 GeV/c, production and decay of anti Δ^{--}(1236) in, (E), 24:45419
interactions anti p + d → p + anti p + π^+ + π^- + n at 5.55 GeV/c d^* enhancement in, (E), 25:38652
interactions anti p + d → p + anti p + π^+ + π^- + n at 5.55 GeV/c in deuterium bubble chamber, d^* effect in, (E), 25:30727 (NP-18796)
interactions anti p + d → p + π^+ + 2π^- + π^0 at 5.5 GeV/c in deuterium bubble chamber, cross sections for anti p + n → π^+ + 2π^- + π^0 interactions, rate for single rho production, upper limit for double rho production, cross sections, and angular and momentum distributions in, (E), 25:59276
interactions anti p + d → p + π^- + π^0, possible experiments for test of isospin invariance of, 22:48300
interactions anti p + d → p + π^- + π^0, strong interaction isospin invariance check from, (T), 22:22381 (JINR-P2-3691)
interactions anti p + d → π^- + anti p + 2p at 7.0 GeV/c, Δ(1236) and Δ(1920) production in, (E), 25:14554
interactions anti p + d → π^- + anti p + π^+ + d at 7.0 GeV/c, Δ^{--}(1236) and d^*(2170) enhancement in, (E), 25:14554
interactions anti p + d → π^- + anti p + π^+ + p + n at 7.0 GeV/c, anti $\Delta^{--}\pi^+$(1470), anti $\Delta^{--}\pi^+$(1750), and pnπ^+(2250) enhancements in, (E), 25:14554
interactions anti p + d → π^- + p at rest in bubble chamber, three-body interactions in, (E), 23:49168
interactions anti p + d at 1 to 3.3 GeV/c, scintillation counter study of structure in total cross sections for, 21:29441
interactions anti p + d at 1 to 3.3 GeV/c, transmission counter study of total cross sections for, 21:27299 (BNL-11372)
interactions anti p + d at 1 to 3.30 GeV/c, evidence for high-mass boson resonances in total cross sections for, (E), 24:37657
interactions anti p + d at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634
interactions anti p + d at 1.25 to 1.67 GeV/c, cross sections for Λ production in, (E), 25:14550
interactions anti p + d at 2.2 GeV/c in deuterium bubble chamber, partial cross sections and K(890), Kanti K, KKπ, K$\pi\pi$, and K^*anti K^* production in 2K, 4K, 2Kπ, and 2K2π final states in, (E), 25:43536
interactions anti p + d at 20 to 65 GeV/c, total cross sections for, (E), 24:5258
interactions anti p + d at 20 to 65 GeV/c, total cross sections for, (E), 25:5295
interactions anti p + d at 20 to 65 GeV/c, total cross sections for, (E), 25:45666 (IFVE-SEF-69-87)
interactions anti p + d at 25 to 100 MeV, cross sections for annihilation, (T), 25:50144
interactions anti p + d at 25 to 100 MeV, impulse approximation for inelastic, charge-exchange, and annihilation, 24:20166
interactions anti p + d at 25 to 100 MeV, impulse approximation for calculation of cross sections for elastic, 24:15588
interactions anti p + d at 6.65 GeV/c, CPT invariance test from ratio of total cross sections of anti d + p interactions at 13.3 GeV/c to total cross sections of, (E), 25:59275
interactions anti p + d at 6.65 GeV/c, test of CPT invariance from total cross sections for, 25:19907
interactions anti p + d at 7.0 GeV/c, K(890) and Δ^{--}(1236) production and cross sections for strange particle decay modes in coherently produced two- and four-prong states in, (E), 25:45665
interactions anti p + d at GeV energies, multiple-scattering formalism for elastic, (T), 22:50414
interactions anti p + d at rest, evidence for existence of narrow anti pn bound state in,), 25:36399
interactions anti p + d at rest, relative annihilation rates of, (E/T), 22:15765
interactions anti p + d at rest, review on, 23:13085 (ANL/HEP-6812, pp 17-57)
interactions anti p + d, at 50 to 920 MeV/c in deuterium bubble chamber, total and topological cross sections for, (E), 25:14555
interactions anti p + d, compilation of cross section variation with incident momentum for, (E), 25:38647 (CERN-HERA-70-3)
interactions anti p + n → 2π^- + π^+ + π at rest in deuterium bubble chamber, branching ratio for, (E), 25:5271
interactions anti p + n → 2π^- + π^+ + π at rest in deuterium bubble chamber, branching ratios for rho, ω^0, and J = 0 $\pi\pi$(1115) production in, (E), 25:5271

interactions anti p + n $\rightarrow 2\pi^- + \pi^+ + \pi^0$ at 3.5 GeV/c in deuterium bubble chamber, branching ratios for rho and f^0 production and cross sections for, (E), 25:22685
interactions anti p + n $\rightarrow 2\pi^- + \pi^+$ at 1.0 to 1.6 GeV/c in deuterium bubble chamber, Veneziano model for 3π Dalitz plot structure in, (E/T), 25:3270 (INFN-PD-70/2)
interactions anti p + n $\rightarrow 2\pi^- + \pi^+$ at 3.5 GeV/c in deuterium bubble chamber, cross sections for, (E), 25:22685
interactions anti p + n $\rightarrow 2\pi^- + \pi^+$ at rest in deuterium bubble chamber, branching ratio for, (E), 25:5271
interactions anti p + n $\rightarrow 2\pi^- + \pi^+$ at rest, five-point function in dual model for, (T), 25:59465
interactions anti p + n $\rightarrow 3\pi$ at rest, phenomenological validity of amplitude for, 23:46699 (NP-18000)
interactions anti p + n $\rightarrow 3\pi$ from πNN and rho$\pi\pi$ coupling constants, 25:1500
interactions anti p + n $\rightarrow 3\pi$, four-point Veneziano amplitude for, 25:33700
interactions anti p + n $\rightarrow 3\pi$, phenomenological consequences of amplitude for, 23:44651
interactions anti p + n $\rightarrow 3\pi^- + 2\pi^+ + \pi^0$ at rest in deuterium bubble chamber, production of ω^0 and branching ratio for, (E), 25:14553
interactions anti p + n $\rightarrow 3\pi^- + 2\pi^+$ at rest in deuterium bubble chamber, production of rho^0 and branching ratio for, (E), 25:14553
interactions anti p + n $\rightarrow$ anti $K^* + K + \pi + \pi$ at 1.6 to 2.0 GeV/c, evidence for U(2360) production in, (E), 24:30442
interactions anti p + n $\rightarrow$ anti p + n + $\pi^+ + \pi^-$ at 2.8 GeV/c in bubble chamber, OPE model for $\Delta(1236)$ production in, (E), 24:45420
interactions anti p + n $\rightarrow$ anti p + n at 3.5 GeV/c in bubble chamber, differential and total cross sections for, (E), 25:9649
interactions anti p + n $\rightarrow$ anti p + n at high energies and fixed momentum transfer, asymptotic expansion of amplitudes for polarization in, 22:37143
interactions anti p + n $\rightarrow$ anti p + n at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions anti p + n $\rightarrow$ anti p + p + $\pi^- + \pi^0$ at 2.8 GeV/c in bubble chamber, OPE model for $\Delta(1236)$ production in, (E), 24:45420
interactions anti p + n $\rightarrow$ anti p + p + π^- at 1.96 GeV/c, production of N^* in, (E/T), 21:33696
interactions anti p + n $\rightarrow$ anti p + p + π^- at 5.5 GeV/c, cross section for, (E), 24:45419
interactions anti p + n $\rightarrow \Delta(1236)$ + p at 28 GeV/c, differential cross sections and decay angular distributions for, (E/T), 22:3261
interactions anti p + n $\rightarrow K$ + anti $K + \pi + \pi + \pi$ at rest in deuterium bubble chamber, analysis of, 23:46608
interactions anti p + n $\rightarrow K$ + anti $K + \pi + \pi$ at rest in deuterium bubble chamber, analysis of, 23:46608
interactions anti p + n $\rightarrow K$ + anti $K + \pi$ at rest in deuterium bubble chamber, analysis of, (E), 23:46608
interactions anti p + n $\rightarrow K$ + anti $K + \pi$ at rest in deuterium bubble chamber, multiple final-state interaction model for analysis of, (E), 24:1508
interactions anti p + n $\rightarrow K$ + anti $K + \pi$ at rest, analysis of annihilation channels of, (E), 23:23353
interactions anti p + n $\rightarrow K$ + anti $K + \pi$ at rest, four-point Veneziano functions for mass spectra and angular distributions for, (T), 25:14691
interactions anti p + n $\rightarrow$ n + anti p, dispersion theoretic calculation of two-π exchange effects on amplitude of forward, 22:39383
interactions anti p + n $\rightarrow \omega + 2\pi^- + \pi^+$ at rest in deuterium bubble chamber, upper limit on $\omega \rightarrow \pi^+ + \pi^-$ decay rate from, (E), 25:3269
interactions anti p + n $\rightarrow \omega + \pi^- + \pi^0$ at rest in deuterium bubble chamber, upper limit on $\omega \rightarrow \pi^+ + \pi^-$ decay rate from, (E), 25:3269
interactions anti p + n $\rightarrow \omega + \pi^-$ at rest in deuterium bubble chamber, upper limit on $\omega \rightarrow \pi^+ + \pi^-$ decay rate from, (E), 25:3269
interactions anti p + n $\rightarrow \pi^0 + \pi^0 + \pi^-$, Veneziano-type parametrization of, 23:46701
interactions anti p + n $\rightarrow \pi^+ + 2\pi^- + \pi^0$ at 5.5 GeV/c in deuterium bubble chamber, cross sections and rate for single rho production and upper limit for double rho production in, (E), 25:59276
interactions anti p + n $\rightarrow \pi^+ + 2\pi^-$ at 1.0 to 1.6 GeV/c in deuterium bubble chamber, cross sections and Veneziano model for mass and angular distributions in, (E/T), 25:14548
interactions anti p + n $\rightarrow \pi^+ + 2\pi^-$, mass and width of rho' in rising phase shift model for, (T), 25:56485 (ORO-3992-66)
interactions anti p + n $\rightarrow \pi^+ + 2\pi^-$, rising phase shift model for daughters in, (T), 24:37761
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^- + \pi^0$ at rest, final-state mass distribution and resonance production in annihilation, (E), 23:10748
interactions anti p + n $\rightarrow \pi^- + \pi^- + \pi^+$ at rest in deuterium bubble chamber, analysis of final state in, (E), 22:17863
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, crossing-symmetric Regge-pole model for, 24:28546
interactions anti p + n $\rightarrow \pi^- + \pi^- + \pi^+$, dual formula for hole structure in Dalitz plot for, 25:9770
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, extension of Veneziano amplitude to, 24:30509 (CONF-690521-, pp 750-8)
interactions anti p + n $\rightarrow \pi^- + \pi^- + \pi^+$, mass extrapolation using dual amplitudes in Veneziano model for, 24:1578
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, Regge theory for final-state interactions in, (T), 23:8801
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, resonance extinction and the effects of driving forces in final state of, (T), 24:10747
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, Veneziano model results from isobaric model for, 24:3642
interactions anti p + n $\rightarrow \pi^+ + \pi^- + \pi^-$, Veneziano-type parametrization of, 23:46701
interactions anti p + n $\rightarrow$ rho$^-$ + rho^0, intermediate vector meson model for, 21:9782
interactions anti p + n $\rightarrow W^- \rightarrow$ l + anti τ, effects of form factors and polarization on differential and total cross sections of, (T), 22:39388
interactions anti p + n above 2 GeV/c, effect of charge-exchange mechanism on cross sections for, 21:29570
interactions anti p + n at 0.05 to 6.1 GeV, multiplicity distributions of secondaries from, (E), 23:49057
interactions anti p + n at 0.3 to 2.0 GeV/c, s and t channel effects in elastic, 22:50385
interactions anti p + n at 1.23 to 1.65 GeV/c, comparison of dip-bump structure in elastic, 22:50376
interactions anti p + n at 1.25 to 1.67 GeV/c in deuterium bubble chamber, cross sections for hadron production in, (E), 25:14550
interactions anti p + n at 1.50 to 2.00 GeV/c, review of U(2370) production in, (E), 25:17390
interactions anti p + n at 20 to 65 GeV/c, 24:5258
interactions anti p + n at 3 GeV/c in emulsions, cross sections for, (E), 23:5531
interactions anti p + N at 3 GeV/c in emulsions, K and π emission in annihilation, (E), 22:46332
interactions anti p + n at 3.5 GeV/c in deuterium bubble chamber, differential cross sections for elastic, (E), 24:30512
interactions anti p + n at 3.5 GeV/c, differential cross section for elastic, (E), 25:3267
interactions anti p + N at 5 GeV/c in emulsions, cross sections for, (E), 25:1401
interactions anti p + N at 5 GeV/c in emulsions, preliminary results for, (E), 22:39261
interactions anti p + N at 5 GeV/c, review of, 23:18795 (CONF-671217-, pp 589-695)
interactions anti p + n at high energies, cross sections for elastic, (E), 22:17858
interactions anti p + n at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions anti p + n at high energies, quark-droplet model for, (E/T), 21:924
interactions anti p + n at high energies, Regge-pole theory of elastic and charge-exchange, 21:25317
interactions anti p + n at rest in deuterium, π, rho, ω, and f^0 production in, (E), 21:15263
interactions anti p + n at rest, quark rearrangement model for annihilation, 21:27360
interactions anti p + n at rest, review on, 23:13085 (ANL/HEP-6812, pp 17-57)
interactions anti p + n at rest, statistical model with SU(3) symmetry for multiple particle production in, 22:32139
interactions anti p + n at rest, SU(3) symmetry for multiple particle production in, 22:41805 (JINR-P2-3879)
interactions anti p + n at rest, unitary-symmetrical statistical model for multiple particle production from annihilation, 21:21212 (JINR-P2-3182)
interactions anti p + n in deuterium bubble chamber at 1.33 and 5.5 GeV/c, isotopic-spin dependence of annihilation cross sections for, (E), 24:42874
interactions anti p + n in quark model, SU(3) violation in, 24:49464
interactions anti p + n, compilation of cross section variation with incident momentum for, (E), 25:38647 (CERN-HERA-70-3)
interactions anti p + N, current algebra and Regge pole theory for, 21:29522
interactions anti p + n, differential cross sections for elastic, (E), 23:10817
interactions anti p + n, dynamics of, (E), 21:23314 (BNL-994, pp 70-102)
interactions anti p + N, isolation of Pomeranchuk contribution to total cross section for, (T), 24:13098
interactions anti p + n, multiple particle production in, 21:7502
interactions anti p + n, π elementarity in elastic unitarity model for, 22:1428
interactions anti p + n, Regge pole fits to cross sections for, 23:15095
interactions anti p + n, review on, 23:39710
interactions anti p + n, selection rules for annihilation, 21:11770
interactions anti p + n, theory of linearly rising trajectories for annihilation, 25:9769
interactions anti p + n, total and elastic cross sections for, 23:23356
interactions anti p + p $\rightarrow$ 2 anti p + 2p at 7 GeV/c, upper limit for cross sections for, (E), 25:59267
interactions anti p + p $\rightarrow$ 2 mesons, SU(3) x SU(3) and SU(6)/sub W/ symmetry for, 22:9662
interactions anti p + p $\rightarrow$ 2 neutral vector mesons, quark model for, 23:18877 (ITF-68-36)
interactions anti p + p $\rightarrow 2\omega^0 \rightarrow 2\pi^+ + 2\pi^- + 2\pi^0$, method for study of, 25:3362
interactions anti p + p $\rightarrow 2\pi + 2\gamma$ with two 3π production in intermediate state, box diagram effects for, (T), 25:22807
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + 2\pi^0$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + n\pi^0$ interactions at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, rho^0 production in, (E), 24:32962 (IS-T-358)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$ at 1.2 GeV/c, $\pi\pi$ scattering effects in, (T), 22:39372 (CERN-68-7(Vol.1), pp 595-8)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$ at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, resonance production and angular distributions for, (E), 24:32962 (IS-T-358)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$ at 2.5 GeV/c, associated production of rho, f, and ω in, (E), 25:45660
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$ at 3.6 GeV/c in hydrogen bubble chamber, heavy resonance and rho, f^0, ω^0 and g production in, (E), 25:25299 (NP-18730)
interactions anti p + p $\rightarrow 2\pi^- + 2\pi^+ + \pi^0$ at 675 and 1100 MeV/c in hydrogen bubble chamber, resonance production and rho—ω interference in, (E), 25:1394 (CONF-700806-49)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$, isosinglet resonance decay in, (T), 22:9581 (IS-T-210)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$, phase-space distributions for 4π decay of isosinglet resonance in, 22:46410
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^- + \pi^0$, spin, symmetry, and polarization in isosinglet resonance four pion decay in, (T), 22:37134
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at 1.2 to 5.7 GeV/c, predictions of multi-Regge models for, 24:49479
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at 1.26 to 1.65 GeV/c, rho—ω interference in, (E), 24:20072
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, resonance production and angular distributions for, (E), 24:32962 (IS-T-358)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at 2.5 GeV/c, production of rho, f, and $S^*(1070)$ in, (E), 25:59271
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at 3.6 GeV/c in hydrogen bubble chamber, rho, f^0, ω^0, g(1660), and heavy resonance production in, (E), 25:25299 (NP-18730)
interactions anti p + p $\rightarrow 2\pi^- + 2\pi^+$ at high energies, multi-Regge model for, (T), 23:3725
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at rest, evidence for narrow $\pi^+\pi^-(530)$ resonance in, (E), 24:8563
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$ at rest, generalized Veneziano model for amplitude of, 23:51931
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$, Feynman diagrams for angular distributions for, 22:15761 (LYCEN-6757)
interactions anti p + p $\rightarrow 2\pi^+ + 2\pi^-$, rho^0 and A_2 production in, (T), 23:49135
interactions anti p + p $\rightarrow$ 2rho^0, intermediate vector meson model for, 21:9782
interactions anti p + p $\rightarrow 3\gamma$, test of linearity of quantum electrodynamics equations from cross section of, (T), 22:48360
interactions anti p + p $\rightarrow 3\pi$, numerical study of relativistic effects on angular distribution from, 21:23332
interactions anti p + p $\rightarrow 3\pi$, review of S capture for protonium annihilation in, (T), 23:49135
interactions anti p + p $\rightarrow 3\pi^0$ at 1.00 to 2.50 GeV/c, upper limits for cross sections for, (E), 22:15677
interactions anti p + p $\rightarrow 3\pi^0$ at rest, optical spark chamber study of epsilon (824), f(1249), and $\pi\pi(775)$ production and rate for, (E), 25:45657 (NEVIS-186)
interactions anti p + p $\rightarrow 3\pi^0$, Veneziano-type parametrization of, 23:46701
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + (\pi^0)$ at 3.6 GeV/c, total cross sections, angular distributions, and resonance production in, (E), 24:49318
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + m\pi^0$, cross sections and angular and momentum distributions for, (E), 25:3263
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + n + \pi^0$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 1.2 and 2.5 GeV/c, $\pi\pi$ scattering effects in, (T), 22:39372 (CERN-68-7(Vol.1), pp 595-8)
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 1.2 GeV/c, production of delta(975) and D(1310) in, (E), 23:14963
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 2.5 GeV/c, fits to $\pi\pi$ effective-mass distributions for, (E/T), 23:30701
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 3.6 GeV/c in bubble chamber, heavy resonance production in, (E), 24:51922 (NP-18466)
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 5.7 GeV/c in bubble chamber, production of rho, ω, A_1, and A_2 in, (E), 22:22305
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- + \pi^0$ at 5.7 GeV/c, evidence for 4π enhancement at 1.7 GeV/c^2 in, (E), 25:40875
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^- (+\pi^0)$ at 3.6 GeV/c, angular correlations in, (E), 25:30733
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 1.2 GeV/c, interference effects in multiperipheral model for meson (rho)' production in, 23:44655
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 2.5 GeV/c, meson resonance production in, (E), 22:39373 (CERN-68-7(Vol.2), pp 281-302)
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 2.7 GeV/c in hydrogen bubble chamber, resonance production from, (E), 21:42262
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 3.6 GeV/c in bubble chamber, heavy resonance production in, (E), 24:51922 (NP-18466)
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)
interactions anti p + p $\rightarrow 3\pi^+ + 3\pi^-$ at 6.94 GeV/c in hydrogen bubble chamber, heavy boson production in, (E), 24:37623

interactions anti p + p $\rightarrow$ 3π^+ + K$^-$ + 2π^- at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)
interactions anti p + p $\rightarrow$ 4K with two phi production in intermediate state, box diagram effects for, (T), 25:22807
interactions anti p + p $\rightarrow$ 4K, calculation of box-diagram effect with two resonances in intermediate state for, (T), 25:19986 (IFVE-STF-70-34)
interactions anti p + p $\rightarrow$ 4π at 1.2 GeV/c, A_2^+, A_2^-, rho^0, and f^0 production in, (E), 22:26563
interactions anti p + p $\rightarrow$ 4π at rest, normalization using dual six-point function for, (T), 25:5362
interactions anti p + p $\rightarrow$ 4π, isobaric five-point amplitude for, 25:59470
interactions anti p + p $\rightarrow$ 4π^+ + 4π^- + π^0 at 5.7 GeV/c, angular correlations and distributions in, (E), 23:14962
interactions anti p + p $\rightarrow$ 4π^+ + 4π^- at 5.7 GeV/c, angular correlations and distributions in, (E), 23:14962
interactions anti p + p $\rightarrow$ 5π, reaction mechanism and amplitudes for, 21:13707
interactions anti p + p $\rightarrow$ 6π^0 at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711
interactions anti p + p $\rightarrow$ A_2 + π, A_2 $\rightarrow$ K_1 + K mass spectra from, (T), 24:37763
interactions anti p + p $\rightarrow$ A_2 + π, A_2 $\rightarrow$ π + rho mass spectra from, (T), 24:37763
interactions anti p + p $\rightarrow$ anti Δ + Δ $\rightarrow$ anti p + π^- + p + π^+ at high energies, Regge pole model in angular correlation theory for double resonance production in, (T), 25:50124 (IS-T-480)
interactions anti p + p $\rightarrow$ anti Δ^{++}(1236) + Δ^{++}(1236) at 2.4 and 2.9 GeV/c, OPE model predictions for, (E/T), 24:37634
interactions anti p + p $\rightarrow$ anti K + K + nπ at 3 to 4 GeV/c in hydrogen bubble chamber, resonance production from, (E), 22:3271
interactions anti p + p $\rightarrow$ anti K + K + π + π, box singularity effects on, (T), 22:3398
interactions anti p + p $\rightarrow$ anti K + K + π + π, effects of leading Landau singularity of box graph in amplitude for, 21:42351
interactions anti p + p $\rightarrow$ anti K^0 + K^0 at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382
interactions anti p + p $\rightarrow$ anti l + l of polarized, nucleon form factors from, (T), 21:9746
interactions anti p + p $\rightarrow$ anti Λ + Λ + π^+ + π^- at 3.6 to 7 GeV/c, production of anti Y* Y* in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti Λ + Λ + π^+ + π^-, box singularity effects on, (T), 22:3398
interactions anti p + p $\rightarrow$ anti Λ + Λ + π^+ + π^-, effects of leading Landau singularity of box graph in amplitude for, 21:42351
interactions anti p + p $\rightarrow$ anti Λ + Λ at 2.19 GeV/c, Λ — anti Λ spin correlations in, (E), 24:12935
interactions anti p + p $\rightarrow$ anti Λ + Λ at 2.5 GeV/c, in hydrogen bubble chamber, cross sections, polarizations, and spin correlations for, 21:37678
interactions anti p + p $\rightarrow$ anti Λ + Λ at 5.7 GeV/c, cross sections and polarization for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti Λ + Λ at threshold to 7 GeV/c, O(3,1) symmetry model for differential cross sections and spin correlations for, 24:13078
interactions anti p + p $\rightarrow$ anti Λ + Σ^0 at 2.5 GeV/c in hydrogen bubble chamber, cross sections for, 21:37678
interactions anti p + p $\rightarrow$ anti Λ Σ^0 + anti Σ^0 Λ at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti N + N + nπ, angular distributions and cross sections for,, 22:17860
interactions anti p + p $\rightarrow$ anti n + n at 1 to 3 GeV/c, search for boson resonances in partial cross sections for, (E), 23:36831
interactions anti p + p $\rightarrow$ anti n + n at 1.8 GeV/c, differential cross sections for, (E), 25:9644
interactions anti p + p $\rightarrow$ anti n + n at 232 MeV in bubble chamber, cross sections and angular distributions for, (E), 25:59266 (SJC-P-71-1)
interactions anti p + p $\rightarrow$ anti n + n at 5 GeV/c in emulsions, preliminary results for cross section for, (E), 22:39261
interactions anti p + p $\rightarrow$ anti n + n at 5 to 9 GeV/c, magnet spark chamber study of differential and total cross sections for, (E), 22:34970
interactions anti p + p $\rightarrow$ anti n + n at 50 and 100 GeV/c at small angles, proposed experiment for optical spark chamber study of, (E), 24:51955 (TID-25473(Vol.4), pp 71-5)
interactions anti p + p $\rightarrow$ anti n + n at high energies, charge exchange in, (E), 21:9701
interactions anti p + p $\rightarrow$ anti n + n at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions anti p + p $\rightarrow$ anti n + n at high energies, Veneziano model for, (T), 25:1569
interactions anti p + p $\rightarrow$ anti n + n at high energies, one-pion exchange in charge-exchange, 21:29533
interactions anti p + p $\rightarrow$ anti n + n at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions anti p + p $\rightarrow$ anti n + n in O(3,1) symmetry, contributions of rho, rho', and A_2 exchange in, 23:32709
interactions anti p + p $\rightarrow$ anti n + n, complex momenta method with branching in j-plane for differential cross sections of, (T), 25:20017(T) (CERN-Trans-70-15)
interactions anti p + p $\rightarrow$ anti n + n, Regge pole theory for, 21:29541
interactions anti p + p $\rightarrow$ anti n + n, singular Regge pole model for, (T), 25:19995
interactions anti p + p $\rightarrow$ anti n + n, strong absorptive Regge-cut model for, (T), 25:7597
interactions anti p + p $\rightarrow$ anti n + n, use of Lorentz group in Regge pole analysis of, (T), 22:50321 (UCRL-18377)
interactions anti p + p $\rightarrow$ anti n + p + π^- + π^- + π^+ at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti n + p + π^- + π^- + π^+ at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti n + p + π^- at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti n + p + π^- at 2.7 GeV/c in hydrogen bubble chamber, charge conjugation invariance and cross sections for, (E), 23:32615
interactions anti p + p $\rightarrow$ anti N* + N + π, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ anti N* + N*, Regge-pole model for pion-exchange, 22:7494
interactions anti p + p $\rightarrow$ anti N^{*--} + N^{*++} + π^0 at 5.7 GeV/c, (E), 21:7457
interactions anti p + p $\rightarrow$ anti N^{*++} + N^{*++}, OPE model for, 21:44371
interactions anti p + p $\rightarrow$ anti Ω^- + Ω^-, quark model for, 21:9781
interactions anti p + p $\rightarrow$ anti p + N + nπ, quark model for cross sections for, 23:5620
interactions anti p + p $\rightarrow$ anti p + n + π^+ + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti p + n + π^+ + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + n + π^+ at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti p + n + π^- at 2.2 GeV/c in bubble chamber, cross sections and forward production of nπ^- system in, (E), 25:43537
interactions anti p + p $\rightarrow$ anti p + p + 2π^+ + 2π^- at 5.7 GeV/c, multiperipheral model analysis of $\Delta^{--}\Delta^{++}$ production in, (E/T), 25:53009
interactions anti p + p $\rightarrow$ anti p + p + ω^0 at 5.7 GeV/c, spin alignment of ω^0 from, (E), 21:7457
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 1.23 to 1.43 GeV/c, cross sections for, (E), 25:50062
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 2.2 GeV/c, OPE models for, 25:56487
interactions anti p + p $\rightarrow$ anti p + p + π^0 at 2.2 GeV/c in bubble chamber, cross sections and Δ(1236) production in, (E), 25:43537
interactions anti p + p $\rightarrow$ anti p + p + π^0, anti p + n + π^+, and anti n + p + π^- at 3.6 GeV/c, production of N* in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- + π^0 at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- + π^0 at 2.4 and 2.9 GeV/c, cross sections for, 24:37634
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 3 to 7 GeV/c, production of N^{*++}anti N^{*--} in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 3 to 4 GeV/c, Δ^{++}(1236) and Δ^{--}(1236) pair production in, (E), 23:30704
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 7 GeV/c, production of Δ^{--}(1236), Δ^{++}(1236), N$\pi\pi$(1460), and N$\pi\pi$(1712), and rho(765) in, (E), 25:59267
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, total cross section for, (E), 21:11735 (IS-T-127)
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.2 GeV/c, OPE models for, 25:56487
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.4 and 2.9 GeV/c, Δ^{++}(1236) pair production in, (E), 24:12932 (IS-T-330)
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.5 GeV/c, OPE model with absorption for Δ anti Δ production in, (E/T), 25:45661
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, N_3^*(1238) pair production from, (E), 21:44273
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.8 to 3.5 GeV/c, anti p$\pi^-\pi^+$(1400) and p$\pi^-\pi^+$(1400) enhancements in, (T), 24:40371
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.4 and 2.9 GeV/c, cross sections for, (E), 24:37634
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.8 GeV/c in deuterium bubble chamber, production of N(1400) and anti N(1400) in, 23:8733
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 and 2.9 GeV/c, pπ + π^- and anti π + π^- mass spectra from, (E), 24:24225
interactions anti p + p $\rightarrow$ anti p + p + π^- + π^+ at 12 GeV/c, cross sections and effective mass distributions for, (E/T), 25:53011
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^- at 2.7 GeV/c, cross section for, (E), 21:18905
interactions anti p + p $\rightarrow$ anti p + p + π^+ + π^-, model for analysis of, 24:28569
interactions anti p + p $\rightarrow$ anti p + p at 0.7 to 2.16 GeV/c, Cherenkov counter, wire spark chamber, and missing-mass spectrometer study of boson resonance production and diffraction analyses of, (E), 23:44591
interactions anti p + p $\rightarrow$ anti p + p at 0.70 to 2.37 GeV/c, differential cross sections for backward, (E), 25:17373
interactions anti p + p $\rightarrow$ anti p + p at 1.12 and 1.36 GeV/c in bubble chamber, production of T(2195) in differential cross sections for backward, (E), 25:53020
interactions anti p + p $\rightarrow$ anti p + p at 10 to 80 MeV in hydrogen bubble chamber, differential cross sections for, (E), 24:24228
interactions anti p + p $\rightarrow$ anti p + p at 232 MeV in bubble chamber, cross sections and angular distributions for, (E), 25:59266 (SJC-P-71-1)
interactions anti p + p $\rightarrow$ anti p + p at 3.55 GeV/c, spark chamber study of differential cross sections for, (E), 25:9684
interactions anti p + p $\rightarrow$ anti p + p at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for elastic, 21:35259
interactions anti p + p $\rightarrow$ anti p + p at 5 GeV/c in emulsions, preliminary results for, (E), 22:39261
interactions anti p + p $\rightarrow$ anti p + p at 5.9 to 9.8 GeV/c, scintillation counter telescope and optical spark chamber study of cross sections for, (E), 22:39271 (CERN-68-7(Vol.1), pp 571-9)
interactions anti p + p $\rightarrow$ anti p + p at 50 to 150 GeV/c, design of apparatus for, (E), 24:51954 (TID-25473(Vol.4), pp 67-70)
interactions anti p + p $\rightarrow$ anti p + p at 6 and 10 GeV/c, scintillation counter and optical spark chamber study of, (E), 23:46621
interactions anti p + p $\rightarrow$ anti p + p at 6 GeV/c, Cherenkov counter study of polarization parameter for, 24:24227
interactions anti p + p $\rightarrow$ anti p + p at high energies and fixed momentum transfer, asymptotic expansion of amplitudes for polarization in, 22:37143
interactions anti p + p $\rightarrow$ anti p + p at high energies and small angles, Regge pole eikonal theory for differential cross sections for, 24:10777 (SU-1206-211)
interactions anti p + p $\rightarrow$ anti p + p at high energies and large momentum transfers, Regge trajectories for recurring minima in, 22:20221
interactions anti p + p $\rightarrow$ anti p + p at high energies, asymptotic behavior of diffraction slopes for, 23:51963
interactions anti p + p $\rightarrow$ anti p + p at high energies, compilation of polarization data and exchange-degenerate Regge pole model for, (E/T), 25:53186
interactions anti p + p $\rightarrow$ anti p + p at high energies, eikonal model for, (T), 25:30893 (INR-P-1233)
interactions anti p + p $\rightarrow$ anti p + p at high energies, eikonal model for total cross sections and slope of differential cross sections for, (T), 25:47881
interactions anti p + p $\rightarrow$ anti p + p at high energies, model for diffraction, (T), 24:52132
interactions anti p + p $\rightarrow$ anti p + p at high energies, predictions of quark model for large-angle, 23:21096
interactions anti p + p $\rightarrow$ anti p + p at high energies, unitarity condition for imaginary part of amplitude for large-angle, 22:13743
interactions anti p + p $\rightarrow$ anti p + p at high energies, Veneziano model for total and differential cross sections and polarizations of, (T), 25:1569
interactions anti p + p $\rightarrow$ anti p + p at large finite energies, relations between particle and antiparticle total cross sections and phases for, (T), 24:28559
interactions anti p + p $\rightarrow$ anti p + p eikonal Regge model for, (T), 25:9776
interactions anti p + p $\rightarrow$ anti p + p, diffraction model for forward peaks in, 24:37799
interactions anti p + p $\rightarrow$ anti p + p, dispersion theoretic calculation of two-π exchange effects on amplitude of forward, 22:39383
interactions anti p + p $\rightarrow$ anti p + p, helicity amplitudes in factorization quark model for, 24:37755
interactions anti p + p $\rightarrow$ anti p + p, polarization experiments for CPT invariance test in, 22:24707 (JINR-P2-3716)
interactions anti p + p $\rightarrow$ anti p + p, prediction of slope changes and corresponding nonstrange meson masses in, (T), 25:17378
interactions anti p + p $\rightarrow$ anti p + p, relation with structures in p + p $\rightarrow$ p + p interactions on s, t, u plane for structures in, 24:10784
interactions anti p + p $\rightarrow$ anti p + p, review of experiments for testing CPT invariance in, (T), 23:14961(T) (CERN-Trans-68-9)
interactions anti p + p $\rightarrow$ anti p + p, test of C, T, and CPT invariance from, 22:3499
interactions anti p + p $\rightarrow$ anti p + p(n) + π^0(π^+) at 2.7 GeV/c in hydrogen bubble chamber, charge conjugation invariance and cross sections for, (E), 23:32615
interactions anti p + p $\rightarrow$ anti p at 1.63 to 2.20 GeV/c at large angles, production of direct-channel boson resonances and exchange of meson and nucleon states for structure in differential cross sections for, (E), 25:7546
interactions anti p + p $\rightarrow$ anti p(anti n) + p(n) at intermediate energies, direct-channel resonance effects on, (T), 25:36491
interactions anti p + p $\rightarrow$ anti Σ^0 + Λ at 2.5 GeV/c in hydrogen bubble chamber, cross sections for, 21:37678
interactions anti p + p $\rightarrow$ anti Σ^- + Λ + π^+, Σ^+ + anti Λ + π^-, and Λ + anti Λ + π^0 at 3.6 to 7 GeV/c, production of Y* in, (E/T), 21:33696
interactions anti p + p $\rightarrow$ anti Σ^+ + Σ^+ at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti Σ^- + Σ^- at 5.7 GeV/c, total and differential cross sections for, (E), 24:5242
interactions anti p + p $\rightarrow$ anti Σ^+ + Σ^-, quark model and multiple-scattering formalism for, 22:52985
interactions anti p + p $\rightarrow$ anti Ξ^0 + Ξ^0, quark model and multiple-scattering formalism for, 22:52985
interactions anti p + p $\rightarrow$ anti Y + Y + mπ, angular distributions and cross sections for, 22:17860
interactions anti p + p $\rightarrow$ baryon + baryon + meson, quark model for cross-section relations between, 22:50375
interactions anti p + p $\rightarrow$ D^0 + ω at 1.1 GeV, spin and parity of D^0 from, (E), 25:33540
interactions anti p + p $\rightarrow$ Δ + anti Δ, factorization predictions as test of exotic exchange in, (T), 25:5365
interactions anti p + p $\rightarrow$ Δ + anti Δ, Regge pole model with factorization for, 24:10707
interactions anti p + p $\rightarrow$ Δ(1236) + anti Δ at 5.7 GeV/c, factorization theorem of Regge residues for spin dependence of, (T), 24:10758
interactions anti p + p $\rightarrow$ Δ^{--} + Δ^{++} at 12 GeV/c, cross sections and decay angular distributions for, (E/T), 25:53011

interactions anti p + p $\to \Delta^{++}(1236)$ + anti $\Delta^{++}(1236)$ at 5.7 GeV/c, differential cross section and decay angular distributions for, (T), 22:11665
interactions anti p + p $\to \Delta^{++}(1236)$ + anti$\Delta^{--}(1236)$, Regge-pole model for π exchange in, 22:26657
interactions anti p + p $\to \Delta^{--}(1236) + \Delta^{++}(1236)$ at 1.6 to 10 GeV/c, one-pion-exchange model for, 23:42683
interactions anti p + p $\to e^- + e^+$ $(\mu^- + \mu^+)$, time-like form factor for, 21:15332
interactions anti p + p $\to e^+ + e^-$ at 1.47 and 2.40 GeV/c, proton form factors and cross sections for, (E), 24:3512
interactions anti p + p $\to e^+ + e^-$ at 1.50 and 2.50 GeV/c, spark chamber study of proton electric and magnetic form factors from upper limits for, (E), 22:15677
interactions anti p + p $\to e^+ + e^-$, differential and total cross sections and modulus and phase of form factors of proton electric dipole moment from, (T), 25:12224
interactions anti p + p $\to e^+(\mu) + e(\mu^-)$, invariance principles for cross section dependence on initial particle polarization for, (T), 25:7645
interactions anti p + p $\to$ eta + $\pi^+ + \pi^-$ at rest, analysis of, (E), 23:8730
interactions anti p + p $\to$ eta + $\pi^+ + \pi^-$ at rest, Veneziano-type amplitude for, (E/T), 25:53177
interactions anti p + p $\to \gamma + \gamma$ at 1.47 and 2.40 GeV/c, cross sections for, (E), 24:3512
interactions anti p + p $\to \gamma + \gamma$ at 1.50 GeV/c, differential cross section for, (E), 22:15677
interactions anti p + p $\to \gamma + \gamma$ at 2.50 GeV/c, upper limit for differential cross sections for, (E), 22:15677
interactions anti p + p $\to h^0$ + rho^0, CP nonconservation in, 22:20236
interactions anti p + p $\to$ K + anti K + 3π at rest, (E), 21:871 (NEVIS-154)
interactions anti p + p $\to$ K + anti K + $m\pi$ at 2.5 GeV/c, Lamb statistical model for cross sections of, (E/T), 25:30866
interactions anti p + p $\to$ K + anti K + $m\pi$ at 2.7 GeV/c, cross sections for $K^*(890)$, rho, and ω production in, (E), 24:18076
interactions anti p + p $\to$ K + anti K + $n\pi$ (n = 3,4) at 1.2 GeV/c, production of $K^*(890)$, rho, ω, eta, and D(1280) in, (E), 22:32059
interactions anti p + p $\to$ K + anti K + $n\pi$ at 3.66 and 6.935 GeV/c, $K^*(890)$, $K^*(1400)$, rho, and ω production in, (E), 21:35306
interactions anti p + p $\to$ K + anti K + $n\pi$ at 5.7 GeV/c, cross sections, angular, and momentum distributions for, (E), 24:49321
interactions anti p + p $\to$ K + anti K + ω at 1.1 to 1.5 GeV/c, review of T production in, (E), 25:17377
interactions anti p + p $\to$ K + anti K + $\pi + \pi$ at rest, properties of C meson from, (E), 23:25519
interactions anti p + p $\to$ K + anti K + π at rest, four-point Veneziano functions for mass spectra and angular distributions for, (T), 25:14691
interactions anti p + p $\to$ K + anti K + π, analysis of, 23:15094
interactions anti p + p $\to$ K + anti K + π, review of Faddeev equations for, 23:49212
interactions anti p + p $\to$ K + anti K^* (anti K + K^*) below $K\pi$ threshold, upper limit for J/sup P/ = 0^+, S = +1 K^* production in, (E), 22:48218
interactions anti p + p $\to$ K + anti K, review of S capture for protonium annihilation in, (T), 23:49135
interactions anti p + p $\to K^*$ + anti K + $n\pi$, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\to K^*(890)$ + anti K + $\pi + \pi$ at 1.5 to 1.95 GeV/c, evidence for U(2360) production in, (E), 24:30442
interactions anti p + p $\to K^0$ + anti K^0 + $\pi^+ + \pi^-$ at 0.7 GeV/c in bubble chamber, production of nonstrange I = 1 meson (1540) in, (E), 23:34531
interactions anti p + p $\to K^0$ + anti K^0 above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)
interactions anti p + p $\to K^0$ + anti K^0 in protonium, s-capture for annihilation, 23:15094
interactions anti p + p $\to K^0$ + anti K^0, review of S capture for protonium annihilation in, (T), 23:49135
interactions anti p + p $\to K_1^0 + (K^0 + \pi^0) + \pi^+ + \pi^-$ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696
interactions anti p + p $\to K_1^0 + K^0 + \pi^+ + \pi^-$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K_1^0 + K^0$ at 1.2 GeV/c, branching ratio for, (E), 21:40147
interactions anti p + p $\to K_1^0 + K_1^0$ + eta at rest, branching ratios for, (E), 21:871 (NEVIS-154)
interactions anti p + p $\to K_1^0 + K_1^0 + m\pi$ at 6.935 GeV/c in hydrogen bubble chamber, cross sections and angular distributions for, 21:37695
interactions anti p + p $\to K_1^0 + K_1^0 + \omega$ at rest, branching ratios and ω width from, (E), 21:871 (NEVIS-154)
interactions anti p + p $\to K_1^0 + K_1^0 + \omega^0$, mass, width, and branching ratio of ω^0 from, (E), 25:22811
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^0$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^0$ at rest in hydrogen bubble chamber, (K anti K) and (Kp) system production from, (E), 22:5502
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^+ + \pi^- + \pi^0$ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^+ + \pi^-$ at 0.7 and 1.2 GeV/c in hydrogen bubble chamber, $K_1^0 K_1^0$ enhancements in, (E), 23:30710
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^+ + \pi^-$ at 0.7 GeV/c, analysis of meson resonance production in, (E), 24:5246
interactions anti p + p $\to K_1^0 + K_1^0 + \pi^+ + \pi^-$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K_1^0 + K_1^0$ at rest, C invariance for, 23:21094
interactions anti p + p $\to K_1^0 + K_2^0 + \gamma$, strong interaction theory from cross section for, 22:20233
interactions anti p + p $\to K_1^0 + K_2^0 + \pi^+ + \pi^-$ at 0.7 GeV/c, analysis of meson resonance production in, (E), 24:5246
interactions anti p + p $\to K_1^0 + K_2^0$ at 100 to 800 MeV/c in bubble chamber, production and properties of rho(1968) in, (E), 25:50069
interactions anti p + p $\to K_1^0 + K_2^0$, coherent decay of K_1^0 and K_2^0 from s-wave, 23:15093
interactions anti p + p $\to K_1^0 + K^+ + \pi^- + \pi^0$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K_1^0 + K^- + \pi^+ + \pi^0$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K_1^0 + K^+ + \pi^{-+} + \pi^- + \pi^+$ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696
interactions anti p + p $\to K_1^0 + K^+ (K^-) + \pi^- (\pi^+)$ at rest in hydrogen bubble chamber, (K anti K) and (Kp) system production from, (E), 22:5502
interactions anti p + p $\to K_1^0 + K^+(K^-) + \pi^-(\pi^+)$ at 1.1 to 1.2 GeV/c in bubble chamber, $F_1^0(1540)$ production in, (E), 25:22671
interactions anti p + p $\to K_1^0 + K^+(K^-) + \pi^-(\pi^+)$ at 0 to 1.2 GeV/c, structure in $A_2 \to$ K + anti K decay mode from, (E), 23:23354
interactions anti p + p $\to K_1^0 + K^{+-} + \pi^{-+} + (\pi^0 + \pi^0)$ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696
interactions anti p + p $\to K^+ + 2\pi^+ + 3\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)
interactions anti p + p $\to K^+ + 2\pi^+ + K^- + 2\pi^-$ at 3.6 GeV/c, use of HPD 2 ionization measurements in bubble chambers for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)
interactions anti p + p $\to K^- + K_1^0 + \pi^+$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K^+ + K_1^0 + \pi^-$ at 1.2 GeV/c, resonance production from, (E), 21:40147
interactions anti p + p $\to K^+ + K^- + \gamma$, strong interaction theory from cross sections for, 22:20233
interactions anti p + p $\to K^+ + K^- + \omega^0$, mass, width, and branching ratio of ω^0 from, (E), 25:22811
interactions anti p + p $\to K^+ + K^- + \pi^+ + \pi^- + \pi^0$ at 1.2 GeV/c, $K^*(890)$, $\omega(783)$, and phi(1019) production in, (E), 23:27742
interactions anti p + p $\to K^+ + K^- + \pi^+ + \pi^- + \pi^0$ at rest in hydrogen bubble chamber, $E^0(1420)$ production from, 21:37696
interactions anti p + p $\to K^+ + K^- + \pi^+ + \pi^-$ at 1.2 GeV/c, $K^*(890)$ production in, (E), 23:27742
interactions anti p + p $\to K^+ + K^- + \pi^+ + \pi^-$, current algebra and PCAC in soft pion limit for differential rate of, 23:25607
interactions anti p + p $\to K^+ + K^-$ above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)
interactions anti p + p $\to K^+ + K^-$ at 0.7 to 2.4 GeV/c, differential cross sections for, (E), 23:44593
interactions anti p + p $\to K^+ + K^-$ at 0.72 to 2.62 GeV/c, spark chamber study of differential cross sections for, (E), 23:25520
interactions anti p + p $\to K^+ + K^-$ at 1.62 to 2.20 GeV/c, differential and total cross sections for, (E), 23:5529
interactions anti p + p $\to K^- + K^+$ at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382
interactions anti p + p $\to K^+ + K^-$ at 200 to 600 MeV/c, angular distributions for, (E), 23:27741 (NP-17873)
interactions anti p + p $\to K^- + K^+$ at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for, 21:35259
interactions anti p + p $\to K^+ + K^-$ at 330 to 610 MeV/c, total and differential cross sections for, (E), 23:27745
interactions anti p + p $\to K^+ + K^-$, absorptive Veneziano model for, 25:1518
interactions anti p + p $\to K^- + K^+$, cross sections from K + p interactions in Reggeized baryon exchange model, 21:46533
interactions anti p + p $\to K^+ + K^-$, crossing relations for comparison of K^+ + p and K^- + p backward elastic scattering, 23:46721
interactions anti p + p $\to K^+(K^0) + K^-$(anti K^0), spin dependence of total and differential cross sections for CP invariance in, (T), 24:52155
interactions anti p + p $\to K^+(\pi^+) + K^-(\pi^-)$ at 7 GeV/c, upper limits for cross sections for, (E), 25:59267
interactions anti p + p $\to \Lambda$ + anti Λ, absorption model and U(6,6) symmetry for K- or K^*-exchange, 22:20230
interactions anti p + p $\to \Lambda$ + anti Λ, K conspiracy in, (T), 24:24360
interactions anti p + p $\to \Lambda$ + anti Λ, Regge pole model and U(6,6) symmetry for, 23:34585
interactions anti p + p $\to \Lambda$ + anti Σ^0, absorption model and U(6,6) symmetry for K- or K^*-exchange, 22:20230
interactions anti p + p $\to m_1\pi^+ + m_2\pi^- + m_3\pi^0 + m_4K$ at 0 to 7 GeV/c, (T), 22:3378 (INP-555/PL/PH, pp 1-15)
interactions anti p + p $\to m\pi$ (m = 2, 3, 4, 5, 6) at rest, review of, 23:13084 (ANL/HEP-6812, pp 4-16)
interactions anti p + p $\to m\pi$ (m > 7) at 2.7 GeV/c, cross sections, invariant-mass distributions, and angular distributions for, (E), 24:49320
interactions anti p + p $\to m\pi$ above 2.5 GeV/c, Reggeized multiperipheral model for correlation effects between pions in, (E/T), 24:3643
interactions anti p + p $\to m\pi$, Reggeized multiperipheral model for cross sections, angular and momentum distributions of, 23:34591
interactions anti p + p $\to \mu^+ + \mu^-$, consequences on colliding beam experiments from total cross sections for, 21:29448
interactions anti p + p $\to$ n + anti n at 3.0 to 9.0 GeV/c, absorption model and U(6,6) for, 21:29528
interactions anti p + p $\to$ n + anti n at 5 GeV/c, Regge-pole model with diffractive correction for, 24:18224
interactions anti p + p $\to$ n + anti n at high energies, Regge pole models with branching in j-plane for differential cross sections for, 22:39377
interactions anti p + p $\to$ n + anti n, conspiracy of singularities in complex angular momentum plane for, 22:11688
interactions anti p + p $\to$ n + anti n, differential cross sections for, (T), 23:5615
interactions anti p + p $\to$ n + anti n, invariant functions in Regge pole model for structure of, 24:3692
interactions anti p + p $\to$ n + anti n, Regge pole model for invariant functions for, 23:51952
interactions anti p + p $\to$ n + anti n, Regge pole model of, 23:5605
interactions anti p + p $\to$ n + anti n, Regge-pole analysis of, 22:5603
interactions anti p + p $\to$ n + anti n, Regge-pole model for charge-exchange, 21:42353
interactions anti p + p $\to N^*$ + anti N^* at 5.7 GeV/c, quark model predictions for joint decay distributions from, 24:1596
interactions anti p + p $\to N^*$ + anti N^* at high energies, quark model for decay distribution correlations for, 21:21234
interactions anti p + p $\to N^*$ + anti N^*, cross section for, 23:23356
interactions anti p + p $\to N^*$ + anti N^*, method for representing joint decay distributions from, (T), 22:39405 (TPJU-15/67)
interactions anti p + p $\to N^*$ + anti N^*, use of statistical tensors for joint decay angular distributions in, 22:24629
interactions anti p + p $\to N_{33}^*$ anti N_{33}^* at 5.7 GeV/c in hydrogen bubble chamber, cross sections for, 21:21213
interactions anti p + p $\to n\pi$ + K + anti K, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\to n\pi$ (n = 2 to 9), behavior of mean square matrix element for, 23:36912
interactions anti p + p $\to n\pi$ (n = 4,5) at 2.7 GeV/c, investigation of, (E), 21:9705
interactions anti p + p $\to n\pi$ at 1.61 to 5.70 GeV, model for π angular distributions from, 22:15760 (LYCEN-6751)
interactions anti p + p $\to n\pi$, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\to n\pi$, dynamic quark model predictions for, 21:44349
interactions anti p + p $\to n\pi$, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions anti p + p $\to n\pi^+ + n\pi^- + m\pi^0$ (n = 3, 4, 5, m > 0) at 3.0 and 3.6 GeV/c, angular distributions, cross sections, and resonance production in, 21:46478
interactions anti p + p $\to \omega + n\pi$, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\to \omega^0 + \pi^+ + \pi^-$ at rest, analysis of B production, decay, and properties from, 24:5245
interactions anti p + p $\to \omega^0 + \pi^+ + \pi^-$ at rest, B(1200) production from, (E), 21:9704
interactions anti p + p $\to$ p + anti p + π^0, model for analysis of, 24:28569
interactions anti p + p $\to$ p + anti p + $\pi^+ + \pi^-$ at 2.2 GeV/c in bubble chamber, cross sections and $\Delta^{++}(1200)$ and $\Delta^{--}(1200)$ production in, (E), 25:43537
interactions anti p + p $\to$ p + anti p at 8 and 16 GeV/c, upper limit for N^{*-} production in, (E), 24:18079
interactions anti p + p $\to$ p + anti p, diffraction peak in, (T), 23:30751
interactions anti p + p $\to$ phi + π, evidence for, (E), 25:22811
interactions anti p + p $\to \pi^+ + e^-$ + anti τ/sub e/, preparations for study of W^- production from, (E), 22:13642
interactions anti p + p $\to \pi^+ + \pi^- + 4\pi^0$ at 3 GeV/c, method from statistical model for branching ratio calculation for, 21:33711
interactions anti p + p $\to \pi^+ + \pi^- + \gamma$, strong interaction theory from cross sections for, 22:20233
interactions anti p + p $\to \pi^+ + \pi^- + m\pi^0$, strong interaction isospin invariance check from, (T), 22:22381 (JINR-P2-3691)
interactions anti p + p $\to \pi^+ + \pi^- + \omega$ at rest, Veneziano-type amplitudes for analysis of, (E/T), 25:45659
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$ at rest in hydrogen bubble chamber, (E), 22:34855
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$ at rest, analysis of, (E), 22:39382
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$ below 1 GeV, cosmic gamma spectrum from, (T), 22:20125 (NP-17315)
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$, analysis of, 23:15094
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$, Feynman diagrams for angular distributions for, 22:15761 (LYCEN-6757)
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$, $\pi\pi$ phase shifts from, 23:10810
interactions anti p + p $\to \pi^+ + \pi^- + \pi^0$, Veneziano-type parametrization of, 23:46701
interactions anti p + p $\to \pi^+ + \pi^+ + \pi^- + \pi^- + n\pi^0$ at 1.6 to 2.2 GeV/c, upper limits for production cross sections for, (E), 25:9643

interactions anti p + p $\rightarrow \pi^+ + \pi^+ + \pi^- + \pi^- + \pi^0$ at 5.7 GeV/c in hydrogen bubble chamber, resonance production from, 21:40146
interactions anti p + p $\rightarrow \pi^+ + \pi^- + \pi^+ + \pi^-$ at 1.2 GeV/c, structure of $A_2 \rightarrow$ rho + π decay in, (E), 23:44604
interactions anti p + p $\rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$ at 1.63 to 2.20 GeV/c, rho—ω interference in, (E), 25:9647
interactions anti p + p $\rightarrow \pi^- + \pi^- + \pi^+ + \pi^+$ at 675 and 1100 MeV/c in hydrogen bubble chamber, resonance production and rho—ω interference in, (E), 25:1394 (CONF-700806-49)
interactions anti p + p $\rightarrow \pi^- + \pi^- + \pi^+ + \pi^+$ at 940 MeV/c, cross sections, mass distributions, and angular correlations in, (E), 25:22680
interactions anti p + p $\rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$ at rest, π angular correlations in, (T), 22:3380 (INP-555/PL/PH, pp 31-50)
interactions anti p + p $\rightarrow \pi^+ + \pi^- + \pi^+ + \pi^-$ at rest, mass and angular distributions for, (E), 24:49450
interactions anti p + p $\rightarrow \pi^+ + \pi^+ + \pi^- + \pi^-$, analysis of, 23:15094
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ above 200 MeV/c, review on, 23:13086 (ANL/HEP-6812, pp 58-78)
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 0.7 to 2.4 GeV/c, differential cross sections for, (E), 23:44593
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 0.72 to 2.62 GeV/c, spark chamber study of differential cross sections for, (E), 23:25520
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 1.61 to 4.00 GeV, f^0 intermediate state and cross sections for, (T), 21:2460
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 1.62 to 2.20 GeV/c, differential and total cross sections for, (E), 23:5529
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 10 to 50 GeV/c, proposed experiment for, 24:51933 (TID-25473(Vol.4), pp 303-6)
interactions anti p + p $\rightarrow \pi^- + \pi^+$ at 2.7 GeV/c in hydrogen bubble chamber, angular distributions and cross sections for, (E), 22:1382
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 200 to 600 MeV/c, angular distributions for, (E), 23:27741 (NP-17873)
interactions anti p + p $\rightarrow \pi^- + \pi^+$ at 3.66 GeV/c in hydrogen bubble chamber, differential cross section for, 21:35259
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ at 330 to 610 MeV/c, total and differential cross sections for, (E), 23:27745
interactions anti p + p $\rightarrow \pi^- + \pi^+$ at 6 and 8 GeV/c, Cherenkov counter study of average differential cross sections for, (E), 23:42556
interactions anti p + p $\rightarrow \pi^+ + \pi^-$ in liquid-propane bubble chamber, fraction of annihilation, (E), 25:9645
interactions anti p + p $\rightarrow \pi^- + \pi^+$, cross sections from π + p interactions in Reggeized baryon exchange model, 21:46533
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, crossing relations for comparison of π^+ + p and π^- + p backward elastic interactions and, 23:46721
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, Feynman diagrams for angular distributions for, 22:15761 (LYCEN-6757)
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, intermediate vector meson model for, 21:9782
interactions anti p + p $\rightarrow \pi^+ + \pi^-$, spin dependence of total and differential cross sections for CP invariance in, (T), 24:52155
interactions anti p + p $\rightarrow \pi^+ + \pi^-$(rho$^-$) at 8 GeV/c, Cherenkov counter study of average differential cross sections for, (E), 23:42556
interactions anti p + p $\rightarrow \pi^+$ + rho$^-$ at 1 to 2 GeV/c at small angles, (E), 25:33544
interactions anti p + p $\rightarrow \pi^+\pi^-$, K^+K^-, and K^0 anti K^0 in SU(6)/sub W/, cross-section ratios for, 21:21222
interactions anti p + p $\rightarrow$ rho + nπ, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ rho + rho + 4π, kinematics of resonance pair production in, 23:23454 (JINR-P1-4280)
interactions anti p + p $\rightarrow$ rho^0 + rho^0 + π^0 at 1.1 to 1.5 GeV/c, review of T production in, (E), 25:17377
interactions anti p + p $\rightarrow$ rho^0 + rho^0 + π^0 at 1.32 GeV/c in hydrogen bubble chamber, π(2190) production and decay in, (E), 23:30707
interactions anti p + p $\rightarrow$ rho$^+$ + rho$^-$, intermediate vector meson model for, 21:9782
interactions anti p + p $\rightarrow S^* + \pi$, evidence for, (E), 25:22811
interactions anti p + p $\rightarrow \Sigma^0$ + anti Σ^0, absorption model and U(6,6) symmetry for K- or K*-exchange, 22:20230
interactions anti p + p $\rightarrow \Sigma^+$ + anti Σ^-, absorption model and U(6,6) symmetry for K- or K*-exchange, 22:20230
interactions anti p + p $\rightarrow \Sigma^+(1385)$ and anti $\Sigma^+(1385)$ at 5.7 GeV/c, differential cross section and decay angular distributions for, (T), 22:11665
interactions anti p + p $\rightarrow$ W + π(K), cross sections for, (T), 21:21215
interactions anti p + p $\rightarrow X^0 + \pi^+ + \pi^-$ at rest, analysis of, (E), 23:8730
interactions anti p + p $\rightarrow \Xi^- + \Xi^-$ at 2.9 GeV/c, total cross sections for, (E), 25:5270
interactions anti p + p $\rightarrow$ Y + anti N + K, angular distributions and cross sections for, (E), 22:17860
interactions anti p + p $\rightarrow$ Y + anti Y + nπ, total cross sections in multi Regge model for, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
interactions anti p + p $\rightarrow$ Y + anti Y* + π, angular distributions and cross sections for, 22:17860
interactions anti p + p $\rightarrow$ Y + anti Y, compilation of data on differential cross sections for, (E), 23:34526 (CERN-HERA-69-2)
interactions anti p + p $\rightarrow$ Y + anti Y, cross sections for, 23:23356
interactions anti p + p above 10 GeV, optical model of, 22:35017
interactions anti p + p above 10 GeV, shrinking, nonshrinking, and expanding diffraction peaks in, (T), 21:19009
interactions anti p + p at rest, gauge-invariant chiral SU(3) x SU(3) symmetric Lagrangian model for two-meson production in s- and p-wave, (T), 25:56538 (ORO-3992-2)
interactions anti p + p at 0.05 to 6.1 GeV, multiplicity distributions of secondaries from, (E), 23:49057
interactions anti p + p at 0.2 to 1.0 GeV, energy dependence of angular correlation effect in multiple π production from, (T), 22:1431
interactions anti p + p at 0.3 to 2.0 GeV/c, s and t channel effects in elastic, 22:50385
interactions anti p + p at 0.7 GeV/c, analysis of D(1285), E(1420), and f'(1515) production in, (E), 24:5241
interactions anti p + p at 1 to 3.3 GeV/c, scintillation counter study of structure in total cross sections for, 21:29441
interactions anti p + p at 1 to 3.3 GeV/c, transmission counter study of total cross sections for, 21:27299 (BNL-11372)
interactions anti p + p at 1 to 3.30 GeV/c, evidence for high-mass boson resonances in total cross sections for, (E), 24:37657
interactions anti p + p at 1 to 7 GeV/c, multiple π production in, (T), 22:24637
interactions anti p + p at 1.0 to 3.3 GeV/c, scintillation and differential Cherenkov counter study of total cross section and resonance production in, (E), 22:29634
interactions anti p + p at 1.1 to 1.52 GeV/c in T-meson region, cross sections for elastic, (E), 25:45658
interactions anti p + p at 1.18 GeV/c, anti p polarization from, (E), 21:5356
interactions anti p + p at 1.2 GeV/c in bubble chamber, rho^0, rho$^+$, rho$^-$, f^0, ω^0, and eta^0 production in four-prong, (E), 23:36830
interactions anti p + p at 1.2 GeV/c, production of rho^0, f^0, A_2^+ and A_2^- in four-prong annihilation, (E), 22:39258
interactions anti p + p at 1.2 to 1.6 GeV/c, total cross sections for, (E), 22:26560
interactions anti p + p at 1.23 to 1.43 GeV/c, differential cross section for elastic, (E), 25:50062
interactions anti p + p at 1.23 to 1.65 GeV/c, comparison of dip-bump structure in elastic, 22:50376
interactions anti p + p at 1.24 to 1.62 GeV/c, cross sections for, (E), 24:49317
interactions anti p + p at 1.24 to 1.62 GeV/c, differential cross sections for elastic, (E), 24:15471
interactions anti p + p at 1.25 to 1.67 GeV/c in deuterium bubble chamber, cross sections for hadron production in, (E), 25:14550
interactions anti p + p at 1.50 to 2.00 GeV/c, review of U(2370) production in, (E), 25:17390
interactions anti p + p at 1.51 to 2.90 GeV/c, differential cross sections for elastic, (E), 25:50063
interactions anti p + p at 1.6 to 2.2 GeV/c in hydrogen bubble chamber, K^0, $K^*(892)$, ω, rho, and odd-C meson resonance (2370) production and angular distributions for, (E), 25:12097
interactions anti p + p at 1.6 to 2.2 GeV/c, differential cross sections for elastic, (E), 22:52933
interactions anti p + p at 1.6 to 70 GeV/c, statistical model with angular momentum conservation for, 22:29684 (DESY-68/10)
interactions anti p + p at 1.73 to 2.97 GeV/c, differential cross sections and polarization distributions for elastic, (E), 22:46330
interactions anti p + p at 1.88 to 3.00 GeV, effect of SU(3) invariance on meson production in, (E), 22:11654
interactions anti p + p at 10 and 14 GeV/c, polarization parameter in forward elastic, (E), 25:56438
interactions anti p + p at 100 to 550 MeV/c in bubble chamber, total annihilation cross section for, (E), 25:40869
interactions anti p + p at 100 to 750 MeV/c in hydrogen bubble chamber, differential elastic and annihilation cross sections and (1927) and (1950) boson resonance production in, (E), 25:12095
interactions anti p + p at 12 GeV/c, Cherenkov counter study of cross sections for, (E), 21:44262
interactions anti p + p at 12 to 70 GeV/c, prediction on slope parameter for elastic diffraction, (T), 25:1505
interactions anti p + p at 16.0 GeV/c, generalization of pomeron + resonance approach to wide-angle elastic, (E/T), 25:50142
interactions anti p + p at 2.2 GeV/c in hydrogen bubble chamber, partial cross sections and K(890), Kanti K, KKπ, K$\pi\pi$, and K*anti K* production in 2K, 4K, 2Kπ, and 2K2π final states in, (E), 25:43536
interactions anti p + p at 2.4 and 2.9 GeV/c in hydrogen bubble chamber, $\Xi^- + \Xi^-$, Λ + anti Λ, and Λ + anti Σ^0 production in, (E), 24:20071 (IS-T-354)
interactions anti p + p at 2.4 and 2.9 GeV/c, differential cross sections for Λanti Λ and Λ anti Σ^0 final states in, (E), 25:5270
interactions anti p + p at 2.4 and 2.9 GeV/c, on-line measuring system for bubble chamber study of, 24:16883 (IS-2231)
interactions anti p + p at 2.4 and 2.9 GeV/c, $\Sigma(1385)$, $\Lambda(1405)$, and $\Lambda(1520)$ production in three-body final states in, (E), 25:5270
interactions anti p + p at 2.5 GeV/c, cross sections for final states and resonance production in, (E), 25:59272
interactions anti p + p at 2.5 GeV/c, review of data on spin effects in elastic, 23:23478
interactions anti p + p at 2.7 GeV/c in hydrogen bubble chamber, differential cross sections for elastic, 21:31526
interactions anti p + p at 2.7 GeV/c, cross sections and missing mass distributions for single π production in, (E), 23:44597
interactions anti p + p at 2.7 GeV/c, cross sections for hyperon production in, (E), 21:44268
interactions anti p + p at 2.7 GeV/c, meson (π) production from, (E), 21:9698 (IS-T-115)
interactions anti p + p at 2.85 GeV, absorption model of charge-exchange, 23:36960
interactions anti p + p at 20 to 65 GeV/c, energy dependence of total cross sections for, (E), 25:56433
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 24:5258
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 25:5295
interactions anti p + p at 20 to 65 GeV/c, total cross sections for, (E), 25:45666 (IFVE-SEF-69-87)
interactions anti p + p at 25 + 25 GeV, schematic predictions for inelastic, 24:20138
interactions anti p + p at 3 GeV/c in emulsion nuclei, strong absorption model for, 21:37799
interactions anti p + p at 3 GeV/c in emulsions, cross sections for, (E), 23:5531
interactions anti p + p at 3 GeV/c, kinematics of quasi-elastic, 21:11769 (NP-16423)
interactions anti p + p at 3.55 GeV/c, spark chamber study of angular distributions and cross sections for elastic, (E), 23:42553
interactions anti p + p at 3.6 GeV/c in bubble chamber, annihilation mechanism from secondary-particle angular distributions from, (E), 24:51921 (NP-18445)
interactions anti p + p at 300 to 700 MeV/c in bubble chamber, study of differential cross sections in backward, (E), 22:52934
interactions anti p + p at 49.4 to 181 MeV, anti p polarization from elastic, (E), 25:9646
interactions anti p + p at 5 to 30 GeV/c, forward spin-independent amplitudes and dispersion relations for, (T), 24:5308
interactions anti p + p at 5.7 GeV/c, cross sections and density matrix elements for $\Sigma(1385)$ production in, (E), 25:40871
interactions anti p + p at 5.7 GeV/c, $N^*(1518)$ and $N^*(1688)$ widths and decay branching ratios from, (E), 21:18901
interactions anti p + p at 50 to 150 MeV, partial-wave analysis of amplitude for, (E/T), 22:24640
interactions anti p + p at 50 to 180 MeV, differential cross sections for charge-exchange, (E), 22:24543
interactions anti p + p at 57 to 178 MeV, cross sections for elastic and inelastic, (E), 21:3985
interactions anti p + p at 6 GeV/c, differential cross sections for elastic, (E), 22:41746
interactions anti p + p at 6 to 17 GeV/c, angular distributions and cross sections for elastic, (E), 23:36852
interactions anti p + p at 6.65 GeV/c, total cross sections for, 25:19907
interactions anti p + p at 6.65 GeV/c, total cross sections for, (E), 25:59275
interactions anti p + p at 6.9 GeV/c in bubble chamber, angular distribution and cross section for, (E), 22:39257
interactions anti p + p at 6.94 GeV/c in hydrogen bubble chamber, Y* production from, 21:33608
interactions anti p + p at 6.94 GeV/c, angular distributions and cross sections for nπ(n greater than 7) production in annihilation, (E), 24:51948
interactions anti p + p at 6.94 GeV/c, cross sections for π production and elastic, (E), 22:50291
interactions anti p + p at 63 to 175 MeV, differential cross sections for elastic, (E), 22:24544
interactions anti p + p at 7 GeV/c in hydrogen bubble chamber, cross section for backward elastic, 21:31525(R) (UCR-34-P-107-46)
interactions anti p + p at 7 GeV/c, cross sections for elastic, (E), 21:2370
interactions anti p + p at 7 GeV/c, hyperon and antihyperon production in, (E), 21:9702
interactions anti p + p at 7 GeV/c, hyperon—antihyperon production from, (E), 21:23314 (BNL-994, pp 70-102)
interactions anti p + p at 7 GeV/c, N* (1238) production in, (E), 21:2370
interactions anti p + p at 7 to 12 GeV/c, differential cross sections for elastic, (E/T), 22:46430
interactions anti p + p at 7 to 15 GeV/c, analysis of two-body and quasi two-body, 23:39691
interactions anti p + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for forward elastic, 21:40200
interactions anti p + p at 7 to 15 GeV/c, quark model with Regge pole amplitude for charge-exchange, 21:40200
interactions anti p + p at 8 and 16 GeV/c, angular distributions for, elastic, (E), 23:46606
interactions anti p + p at 800 MeV/c, mesons (K) and resonance meson production in, (E), 21:17034 (NEVIS-157)
interactions anti p + p at 850 MeV/c in hydrogen bubble chamber, $\Delta S = \Delta Q$, $\Delta I = 1/2$, and CP invariance in K^0 decay from, 21:18886 (NEVIS-160)
interactions anti p + p at 9.7 GeV/c, angular distributions for, (E), 23:3647
interactions anti p + p at high energies, 22:3371
interactions anti p + p at high energies and large momentum transfer, model for elastic, 21:7507
interactions anti p + p at high energies, absorption model for form factors for, 21:40240
interactions anti p + p at high energies, analysis of differential and total cross section data for, 25:3411
interactions anti p + p at high energies, charge-exchange and quasi-elastic, (T), 21:13699
interactions anti p + p at high energies, comparison of Regge pole results with data for, (E/T), 23:39723(T) (NP-tr-1826)
interactions anti p + p at high energies, contribution of Regge cut to cross sections for elastic, (E/T), 24:45517

interactions anti p + p at high energies, Coulomb interference in elastic, 21:42367
interactions anti p + p at high energies, cross sections for total annihilation and elastic, 24:15585
interactions anti p + p at high energies, cross sections for elastic, (E), 22:17858
interactions anti p + p at high energies, dispersion relation calculation of real part of forward amplitude for, 22:48309
interactions anti p + p at high energies, duality for large-angle, 25:50131
interactions anti p + p at high energies, eikonal model including spin effects for, 23:44677
interactions anti p + p at high energies, large-momentum-transfer π production in, (T), 24:37746
interactions anti p + p at high energies, model for multiple pion production in, 21:33687
interactions anti p + p at high energies, multiple scattering mechanism in quark model for analysis of elastic, 24:8644
interactions anti p + p at high energies, multiple-scattering corrections to Pomeranchuk on exchange in elastic, 22:46397
interactions anti p + p at high energies, optical potential for amplitudes of elastic, 21:15417
interactions anti p + p at high energies, optical—Regge model for small-angle elastic, 23:1653
interactions anti p + p at high energies, overlap matrix formalism for annihilation and charge-exchange, 21:7508
interactions anti p + p at high energies, phase shifts for elastic, (E/T), 21:2455
interactions anti p + p at high energies, polarization effects in, (T), 24:20178
interactions anti p + p at high energies, quark model for large-angle elastic, 22:46389
interactions anti p + p at high energies, quark three-body forces for, 21:35296 (JINR-P2-3359)
interactions anti p + p at high energies, Regge-pole model for elastic, (T), 25:9813
interactions anti p + p at high energies, Regge-pole theory of elastic and charge-exchange, 21:25317
interactions anti p + p at high energies, Regge-pole eikonal theory for small-angle, 24:37814
interactions anti p + p at high energies, Regge-pole amplitudes for analysis of differential cross sections for, 23:27799
interactions anti p + p at high energies, Regge-pole model of elastic large-angle, 24:18228
interactions anti p + p at high energies, resonance production in, (T), 22:20174 (NP-17316)
interactions anti p + p at high energies, role of Regge cuts and poles in, 25:45738
interactions anti p + p at high energies, sakaton rearrangement model for, 25:12186
interactions anti p + p at high energies, self-consistent multiple-quark-scattering analysis of, 23:36959
interactions anti p + p at high energies, theory of polarization for, 23:18924
interactions anti p + p at high energies, total cross sections and elastic, 24:49510
interactions anti p + p at high energies, Veneziano—Pomeron model for cross sections and polarizations for elastic, (E/T), 24:26449
interactions anti p + p at high momentum transfer, analysis of elastic, 21:27383
interactions anti p + p at large angles and large momentum transfer, differential cross section behavior for, 23:15127
interactions anti p + p at low energies, nonrelativistic quark model for meson resonance production in, (E/T), 24:5240
interactions anti p + p at rest and 1.2 GeV/c, evidence of I = 1 (K anti K) enhancement in, (E/T), 21:44369
interactions anti p + p at rest and in flight, review on annihilation, 23:23356
interactions anti p + p at rest in hydrogen bubble chamber, branching ratios for K + anti K + 3π, K + anti K + eta, and K + anti K + ω final states in, (E), 21:29447
interactions anti p + p at rest in hydrogen bubble chamber, upper limits for tachyon production in, (E), 23:51850 (NYO-1932(2)-148)
interactions anti p + p at rest in liquid hydrogen, annihilation rates for pionic and kaonic final states from, 23:15094
interactions anti p + p at rest, equality of electric and magnetic form factors from, 21:33654
interactions anti p + p at rest, extended quark-rearrangement model for annihilation, 24:3634
interactions anti p + p at rest, possible experiments for K^0—anti K^0 system production in, (E/T), 25:38649
interactions anti p + p at rest, quark model for pseudoscalar meson production in annihilation, 23:5606
interactions anti p + p at rest, relative annihilation rates of, (E/T), 22:15765
interactions anti p + p at rest, review on annihilation, 23:5607
interactions anti p + p at rest, SL (6,C) symmetry for two-meson annihilation, (T), 21:2454
interactions anti p + p at rest, statistical model with SU(3) symmetry for multiple particle production in, 22:32139
interactions anti p + p at rest, statistical model for particle production in, 22:24647
interactions anti p + p at rest, SU(3) symmetry for multiple particle production in, 22:41805 (JINR-P2-3879)
interactions anti p + p at rest, tests of SU(6)/sub W/ and SU(3) predictions for annihilation, 22:22390
interactions anti p + p at rest, unitary and higher symmetry for two-meson production from annihilation, 21:35335
interactions anti p + p at rest, unitary-symmetrical statistical model for multiple particle production from annihilation, 21:21212 (JINR-P2-3182)
interactions anti p + p at small momentum transfer, Regge-pole model for elastic, 22:15779
interactions anti p + p below 10 GeV/c, peripheral, 21:31579
interactions anti p + p below 286 MeV under astrophysical conditions, upper limits and selection rules for gamma production in, (T), 22:20174 (NP-17316)
interactions anti p + p below 70 MeV, differential cross sections for elastic, (E/T), 24:51947
interactions anti p + p in deuterium bubble chamber at 1.33 and 5.5 GeV/c, isotopic-spin dependence of annihilation cross sections for, (E), 24:42874
interactions anti p + p in flight, review on multiparticle final states in, (E), 23:13027 (ANL/HEP-6812, pp 108-46)
interactions anti p + p in GeV range, one-boson-exchange contributions in nonlocal field theory to, 23:36925
interactions anti p + p in Glauber quark model, cross sections for elastic, 24:15550
interactions anti p + p in liquid hydrogen bubble chamber, meson resonance production in, (E), 23:42551
interactions anti p + p in quark model, SU(3) violation in, 24:49464
interactions anti p + p in sakaton triplet model, 22:15752
interactions anti p + p to 300 MeV, OBE potential models for, 22:26644
interactions anti p + p, analysis of multiplicity of π production in annihilation, 22:24642
interactions anti p + p, Argand-diagram loops from partial-wave analysis of, 23:15091
interactions anti p + p, atomic effects on annihilation rates for,(T), 25:1455
interactions anti p + p, Born approximation for, (E/T), 24:40419
interactions anti p + p, broken exchange-degenerate Regge-pole model for charge-exchange, 25:7652
interactions anti p + p, compilation of cross section variation with incident momentum for, (E), 25:38647 (CERN-HERA-70-3)
interactions anti p + p, cross sections for large-angle, 23:3757
interactions anti p + p, current algebra and Regge pole theory for, 21:29522
interactions anti p + p, differential cross sections for elastic, (E), 23:10817
interactions anti p + p, dispersion analysis for elastic, 21:35298
interactions anti p + p, dispersion relations for forward, 24:5302
interactions anti p + p, duality effects and π spectra from multiple production in annihilation, (T), 24:42950
interactions anti p + p, duality requirement for elastic, 24:8678
interactions anti p + p, effect of direct-channel resonances in, 24:13053
interactions anti p + p, effects of resonance scattering on charge-exchange and elastic, 22:52979
interactions anti p + p, eikonal Regge model for elastic, 25:9755
interactions anti p + p, energy dependence of angular correlations in, 22:3379 (INP-555/PL/PH, pp 17-29)
interactions anti p + p, energy dependence of cross sections for inelastic, (E/T), 24:24373
interactions anti p + p, Euler angles for π distribution from, 21:29513
interactions anti p + p, extrapolation of slope parameter for, 25:53237
interactions anti p + p, generalized quark model for cross sections and spin density matrix elements for strangeness-exchange, 22:29693
interactions anti p + p, heavy photon production in, (E/T), 21:2424
interactions anti p + p, intermediate vector meson production in annihilation, (T), 21:7488
interactions anti p + p, isotopic spin conservation effects on angular correlatons in high-multiplicity π systems in, (T), 24:35650
interactions anti p + p, kinematics of resonance production in, 23:49161
interactions anti p + p, model for Pomeranchuk terms for total and differential cross sections for, (T), 24:37753 (LNF-69/71)
interactions anti p + p, multiperipheral model for charged particle production in, 25:50118 (SU-1206-254)
interactions anti p + p, multiple particle production in, 21:7502
interactions anti p + p, multiple quark scattering analysis for energy and momentum transfer square dependencies of differential cross sections for charge exchange, (E), 25:43615
interactions anti p + p, multiple-quark-scattering analysis of, 25:47833
interactions anti p + p, nucleon-exchange model for multipion production in annihilation, 21:42350
interactions anti p + p, Orear formula for statistics of, 21:9722
interactions anti p + p, polarization in elastic, 23:10817
interactions anti p + p, Pomeranchuk parameters for cross sections for, 24:15608
interactions anti p + p, predictions and validity of forward dispersion relations for amplitudes of, 22:15785 (BNL-12058)
interactions anti p + p, production of mesons decaying to 4π in, (E), 21:18903
interactions anti p + p, production of neutral pseudoscalar and vector mesons in annihilation, (T), 22:22387
interactions anti p + p, production of nonstrange boson resonances in, 23:49127
interactions anti p + p, π and N form factors from multiple quark analysis of consistency relations among diffraction cross sections for, (T), 22:32116
interactions anti p + p, quark model for antibaryon—baryon pair production from, 21:33693
interactions anti p + p, quark rearrangement model for, 21:31584
interactions anti p + p, Regge cuts in quark models for multiple, 23:51959
interactions anti p + p, Regge pole fits to cross sections for, 23:15095
interactions anti p + p, Regge pole model and moving branch points in j-plane for crossover with p + p interactions and ωP branching contribution for, 24:3679
interactions anti p + p, Regge pole theory for charge-exchange, 23:5596
interactions anti p + p, Regge-pole model for secondary maxima in, 21:44380
interactions anti p + p, research at Univ. of California Oct. 1, 1969 to Sept. 30, 1970 on heavy boson production in, (E), 25:3261(R) (UCI-34-P-149-1)
interactions anti p + p, resonance and antishrinkage of diffraction peak in, 21:46529
interactions anti p + p, resonance production and branching ratios for multipion production in, (T), 25:12195
interactions anti p + p, review of meson properties from, (E), 25:22669 (SJC-P-70-1)
interactions anti p + p, review of, (E), 25:7636 (CONF-690608-, pp 191-222)
interactions anti p + p, review on, 23:39710
interactions anti p + p, review on elastic and charge exchange, (E), 23:13028 (ANL/HEP-6812, pp 147-97)
interactions anti p + p, selection rules for, 21:11770
interactions anti p + p, semistrong C violation with $\Delta I = 3$ in annihilation, 22:29738
interactions anti p + p, spark chamber for detecting neutral particles produced in, 21:6215
interactions anti p + p, statistical model for multiple-meson production in, 21:922
interactions anti p + p, statistical model with unitary symmetry breaking for annihilation in, 21:7497 (JINR-P2-3001)
interactions anti p + p, statistical unitary symmetry theory for annihilation, 21:44423
interactions anti p + p, SU(3) for three-body final-state hadron production from, 21:42400
interactions anti p + p, tests of charge-conjugation invariance in spectra of massive neutral boson mixing in, (E), 24:3516
interactions anti p + p, theory of linearly rising trajectories for annihilation, 25:9769
interactions anti p + p, total and elastic cross sections for, 23:23356
interactions anti p + p, unitarity upper and lower bounds on absorptive parts of amplitude for elastic, (T), 24:37953
interactions anti p + p, upper bound on imaginary part of amplitude for, 25:3460
interactions anti p + p, upper limit on production rate of tachyons in, (E), 24:28499
interactions anti p + p, weak duality for slopes of angular distributions of elastic, 25:30873
interactions antip + p at 2.74 GeV/c, high-energy models for cross sections and polarization in, (E/T), 24:24249
interactions antip + p at 3.5 GeV/c, equipment for studying wide-angle elastic, 24:23018 (CEA-N-1258)
interactions antip + p at high energies, Regge pole description of two-body exchange, 24:24380
interactions in nuclear emulsions at 5 GeV/c, production of anti n from, (E), 23:42555
interactions p + anti p → Λ + anti Λ, spin correlations for, (T), 22:7637(R) (COO-1573-33)
interactions with aluminum-27 at 2.5 to 3 BeV, carbon-11 and fluorine-18 production by, (E), 21:1018
interactions with carbon-12 at 2.5 to 3 BeV/c, carbon-11 production by, (E), 21:1018
interactions with mesons, U tilde (8) theory for pseudoscalar—pseudoscalar, pseudoscalar—vector, and vector—vector, 21:33748
interactions with protons in the Universe, gamma-ray spectra from, (T), 23:14575
interactions with protons, cosmic gamma radiation from, (T), 23:22942 (N-68-36900)
interactions with protons, electron and positron energy distribution from, (T), 21:33066
lifetime of, (T), 22:43763
mass from x-ray spectra of antiprotonic thallium, 25:47798
mass of, determination from x-ray spectra from antiprotonic atoms produced from anti p reactions with thallium at rest, (E), 25:1397
origin in primary cosmic radiation, diffusion equation for, 22:43946
photoproduction on hydrogen and nitrogen at 6 GeV, (E), 21:3970(R) (NP-16354)
production at high energies, two-temperature statistical model for, 21:13698 (N-66-37560)
production from γ + N interactions, review of research on, 21:29421
production from p + N interactions at 10 to 35 GeV/c in beryllium, empirical formulas for, 21:31605 (BNL-11479)
production from p + N interactions at 2.88 and 3.05 GeV in copper, distribution of Fermi momenta of nucleons in copper from, 21:33606
production from p + N interactions in copper at 3.5 to 6.1 GeV, (E), 21:27300 (NEVIS-159)
production from p + p interactions at 12.5 GeV/c, spectrometer study of cross sections for, 21:29440
production from proton reactions with aluminum at 70 GeV, (E), 24:15600(T) (ORNL-tr-2266)
production from proton reactions with copper at 30 GeV, (E), 22:13647

production in electron reactions with beryllium, beryllium—iron, and iron at 16 and 18 GeV, yields of, (E), 22:20113
production in high-energy interactions, two-temperature statistical model for, 21:21253
production in $\mu^- + \mu^+ \rightarrow$ p + anti p interactions, polarization in, (E), 21:865
production in p + p inelastic scattering at 12.5 GeV/c, diffraction model study of, (E), 22:52932
production in p + p interactions and proton reactions with nuclei at 19.2 GeV/c, spectrometer study of spectra from, (E), 24:35603 (CERN-70-12)
production in p + p interactions at 12.4 to 12.5 GeV/c, differential cross section for, (E), 25:17379
production in p + p interactions at 12.5 GeV/c, cross sections for, (E), 22:39250 (CERN-68-7(Vol.2), pp 262-80)
production in p + p interactions at 12.5 GeV/c, differential cross section for, (E), 22:20128
production in p + p interactions at 14.25 to 70 GeV/c, phenomenological study of inclusive single-particle spectra in triple Regge limit for, (T), 25:59505 (JINR-E2-6031)
production in p + p interactions at high energies, two-temperature statistical model for spectra of, 23:7156
production in p + p interactions, thermodynamic model for, 23:3754 (RHEL/R-165)
production in photon reactions with carbon, copper, and hydrogen at 4.2 to 5.7 GeV, cross sections for, (E), 21:44247
production in proton interactions with hydrogen at 200 GeV, empirical estimation of flux of, 24:51923 (TID-25473(Vol.1), pp 397-401)
production in proton reactions with aluminum and beryllium and p + p interactions at 10 to 70 GeV/c, scaling law and empirical formulas for, (T), 24:51937
production in proton reactions with aluminum and beryllium at 70 GeV, yields and differential cross sections for, (E), 25:19906
production in proton reactions with aluminum and beryllium at 70 GeV, Cherenkov counter and spectrometer study of, (E), 25:22678
production in proton reactions with aluminum and beryllium at 10 and 13.3 GeV/c, gas Cherenkov counter and time-of-flight spectrometer study of, (E), 25:25296 (IFVE-SEF-70-38)
production in proton reactions with aluminum at 35 to 70 GeV, yields for, (E), 24:28486
production in proton reactions with aluminum at 43, 52, and 70 GeV, (E), 24:5243
production in proton reactions with aluminum at 70 GeV in Serpukhov synchrontron, 23:23595
production in proton reactions with aluminum at 70 GeV, gas Cherenkov counter study of, (E), 24:3519
production in proton reactions with aluminum below 70 GeV, forward-angle, (E), 23:51849 (IFVE-SEF-69-18)
production in proton reactions with aluminum, beryllium, copper, lead, and polyethylene at 12.3 GeV/c, yields and differential cross sections for, (E), 23:8732
production in proton reactions with aluminum-27 at 70 GeV, peripheral, (E/T), 24:37806
production in proton reactions with beryllium and copper at 12.3 GeV/c, differential cross sections for, (E), 23:25523
production in proton reactions with nuclei at 6 to 10 GeV, yield of, 23:27820 (ITEF-620)
production of anti p—p pairs of, in π^- reactions with carbon at 4 Gev/c in propane bubble chamber, correlated, (E), 25:53031
production of p—anti p pairs in γ + N interactions at high energies, cross sections for, (T), 24:42958
production of p—anti p pairs in $\pi^+ + p \rightarrow \pi^+ + p +$ anti p + p interactions at 13.1 GeV/c in hydrogen bubble chamber, (E), 25:40879 (COO-1428-273)
production of secondary, in primary cosmic-ray interactions with interstellar gas nuclei, 21:37222
reactions (anti p,anti n) with nuclei, cross-section calculations using optical model, 21:40477
reactions (anti p,f) with bismuth, gold, and uranium at 2.5 GeV/c, cross sections for, (E), 25:48077
reactions (anti p,n anti p) with carbon-12 at 1.73 GeV, cross sections for, (E), 25:33978
reactions with aluminum, carbon, copper, lithium, and lead at 25 GeV/c, absorption cross sections for, (E), 24:15475
reactions with atoms at rest, x-ray spectra from antiprotonic atom production from, (E), 25:1397
reactions with bromine and silver at 3 GeV in nuclear emulsions, (E), 22:14513 (BNL-50057, pp 60-78)
reactions with bromine and silver at 5 GeV/c, lithium-8 production from, (E), 21:9989
reactions with bromine and silver in emulsions at 5.0 GeV/c, production of Z greater than or equal to 3 nuclei in, 22:35279
reactions with bromine and silver in nuclear emulsions at 2.23 GeV, production of fast helium nuclei in, 22:22301
reactions with bromine and silver in nuclear emulsions at 3.7 GeV/c cross sections for, (E), 21:31762
reactions with emulsion nuclei at 3 GeV/c, cross sections for, (E), 23:5531
reactions with emulsion nuclei at 5 GeV/c, beryllium-8 emission in, (E), 22:20513
reactions with emulsion nuclei at 5 GeV/c, hyperfragment production in, (E), 23:18799
reactions with emulsion nuclei at 5 GeV/c, hyperfragment direct and indirect production in, (E), 21:29443
reactions with emulsion nuclei at 5 GeV/c, lithium-8 angular and energy distributions from, (E), 21:46687
reactions with emulsion nuclei at 5 GeV/c, survival probability of anti p in, (E), 23:32618
reactions with emulsion nuclei at 5.0 GeV/c, helium-8 production from, (E), 22:3255
reactions with helium atoms, properties of metastable states formed in, 23:39311
reactions with helium, Auger and radiative transition rates for antiprotonic helium atoms formed in, (T), 24:21568
reactions with helium, binding energies and wave functions for antiprotonic helium atoms formed in, (T), 24:21565
reactions with helium, effects of multipole interactions between antiproton and electron on binding energies and wave functions of antiprotonic helium atoms formed in, (T), 24:21567
reactions with nuclei at 10.8 and 18.0 GeV/c, absorption cross sections for, (E), 21:37697 (BNL-11598)
reactions with nuclei at 2.23 GeV in emulsions, helium-4 emission from, (E), 21:25477
reactions with nuclei at 3 GeV/c in emulsions, annihilation radiation evaluation for, (E), 22:20129
reactions with nuclei at 3 GeV/c in emulsions, annihilation cross sections for, (E), 25:45656 (FRNC-TH-28)
reactions with nuclei at 3 GeV/c in emulsions, strong-absorption model for, 23:30767
reactions with nuclei at 40 GeV/c, absorption cross sections for, (E), 24:1511
reactions with nuclei at 5 GeV/c in emulsions, angular and momentum distributions for π^0 produced in, (E), 25:36404
reactions with nuclei at 5 GeV/c in emulsions, energy and angular characteristics and mean transverse momentum of surviving anti p and properties of nonannihilation, (E), 24:12934
reactions with nuclei at 5 GeV/c in emulsions, Monte Carlo calculations for double production of lithium-8 in, (E/T), 24:37624
reactions with nuclei at 5 GeV/c in emulsions, re-emission of anti p in, review of, 23:18795 (CONF-671217-, pp 589-695)
reactions with nuclei, model of factorized residues for, (T), 23:1955
reactions with nuclei, research program on, 21:25533
reactions with thallium at rest, x-ray spectra and anti p mass from antiprotonic atom production from, 25:1397
research in Soviet Union, 25:14544
scattering by complex nuclei at 3 GeV/c in emulsions, nuclear optical model parameters from small-angle elastic, (E), 22:46855
scattering by complex nuclei in emulsions at 3 GeV/c, small-angle distribution of elastic, (E), 22:32061
scattering by nuclei at 3 GeV/c at small angles in emulsions, real amplitude for elastic, (E/T), 24:24235
scattering by nuclei in nuclear emulsions at 3 GeV/c, angular distribution for elastic, (E), 21:46688
use of polarized, for test of CPT invariance, 21:37893
use of polarized, for testing C, P, and T invariance and CPT theorem, 21:19044 (JINR-P2-3217)
PROTOPLASM
radiation effects on flow of, in plant cells exposed to heavy water, 21:6419
radiation effects on plant, in relation to use in microsurgery, laser, 24:34756
radioinduced oxidation of, in dinoflagellates, uv, 22:31259
PROTOPORPHYRINS
see also Hematin
see also Heme
complexes with cobalt, radioprotective effects of, on mice, cobalt-60 γ, fast neutron, and x, 22:31188
complexes with radioactive iron ions, 22:21087(P)
content in erythrocytes in patient with light-induced dermatosis of hands, 21:22513
content in erythrocytes of man, effects of, on uv-radiosensitivity, 21:28369
effectiveness as carrier for palladium-109 for selective ablation of lymph nodes in dogs, 25:42312
electronic transitions in metal-free, magnetic circular dichroism for assigning polarization of, 21:22242 (UCRL-17200)
photosensitivity in human skin, 22:6853
radiation effects on content of, of duck blood, tracer study of x, 23:16411
radiation effects on in vitro synthesis of, in rat liver following whole-body exposure, x, 25:46735
radiation effects on metabolism of, uv, 21:22513
radiation effects on synthesis of, in nucleated erythroid precursors and reticulocytes in rabbits, combined effects of dose and massive hemorrhaging on cobalt-60 γ, 24:11953
radiation effects on, in skin of guinea pigs and man with erythropoietic protoporphyria, uv, 22:51877
radioinduced free radicals in solutions of, 22:28363
PROTOTYPE ADVANCED THERMAL REACTOR
buildings and structures for, design parameters and construction schedule for, 25:20564
design parameters of, 25:20564
site for, preparation of, 25:20564
PROTOTYPE FAST REACTOR
boiler for, fabrication and inspection of stabilized steel tubes for, 24:52757
boilers for, design parameters of, 24:52758
components for, design and performance requirements for, 25:57011
components for, fabrication, inspection, and mechanical properties of stabilized mild steel for use in, 25:24561 (TRG-Report-2071)
construction and design status, 21:23639
construction of, 25:41276 (CONF-710315-8)
construction of, 24:52750
construction of, description of, 23:1998
construction of, description of, 22:14206
construction of, review of planning for, 25:56998
construction of, review of progress in, 24:24792
control of, computer instrumentation for, 23:40341
control rod reactivity worth measurements, 22:18509
control systems for, description of, 22:18507
coolant for, polarographic determination of oxygen in liquid sodium, 22:31390
coolant level measurements in, electromagnetic sensors for, 25:25978
coolant technology development for, 21:23638
coolant temperature coefficient calculations for, using multigroup diffusion theory and first-order perturbation theory, 22:35560
cooling system for, description of, 22:16195
cooling system for, design and construction of, 25:54071 (A/CONF.49/P-482)
cooling system for, design and operation of corrosion loops for testing components of, 24:52751
cooling system for, hydraulic characteristics and design requirements of, 24:52753
cooling system for, hydraulic problems in, 24:52752
cooling system for, pump instrumentation for liquid metal, 25:23925
cooling system for, sodium process monitoring system for, 24:47859
cooling system for, testing of equipment for liquid sodium, 22:18505
cooling system of, liquid sodium flow measurement in, 25:1885
cooling system pump design and development, 21:23637
cooling systems in, design of automatic plugging meters for monitoring impurities in sodium, 25:46660
core and breeder for, description of, 22:16195
core for, design and operation of corrosion loops for testing components of, 24:52751
core for, design parameters of, 25:54030 (A/CONF.49/P-481)
core support structure for, design requirements of, 24:52755
description of, 22:22729
description of, 22:18497
description of, 22:27424
design of, 21:30230
design parameters for, 25:41276 (CONF-710315-8)
design parameters for, 22:16195
design parameters for, analysis of, 22:35498
design parameters of, 23:47173
design parameters of, 24:52750
design parameters of, 25:57013
design parameters of, 24:16134
development of, 21:40639
development of, contributions of British industry to, 24:24793
development of, review of, 23:28417 (TRG-Report-1801(Rev.))
development of, review of, 23:21453
emergency core cooling system for, design parameters of, 24:52758
flowmeters for, development of a-c operated, 25:12792
fuel elements for, analysis of physics parameters of, 22:18512
fuel elements for, fabrication of plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:14209
fuel elements for, irradiation testing of uranium oxide (UO_2)—plutonium oxide (PuO_2), 25:54089 (A/CONF.49/P-498)
fuel elements for, performance requirements of, 25:57064
fuel pin failure detection system for, design and development of, 24:52761
fuels for, development of clad carbide and oxide, 23:8349
heat exchangers for, design and construction of, 25:54071 (A/CONF.49/P-482)
heat exchangers for, design parameters of, 24:52758
heat exchangers for, development of hydrogen monitoring sodium leak detection system for secondary, 25:50903
instrumentation and control systems for, 25:51948
loading machine design for, 21:23636
loading machine for, design parameters and development program for, 24:52759
materials specifications for, 24:6184 (NP-18033)
mockup of, use of ZEBRA Assembly 7 for physics measurements of, (E/T), 24:22461
operations aspects of, 25:54133 (A/CONF.49/P-472)
physics measurements for, description of, 22:35540
physics parameters for, analysis of, 22:18509
pumps for, design parameters of primary and secondary liquid metal, 24:52756
radiation target cans for, design parameters of, 24:40901 (TRG-Report-1911, pp 531-44)
radiation testing facilities in, 24:40893 (TRG-Report-1911, pp 13-25)
shielding for, COMPRASH and ATTOW diffusion programs and MOB Monte Carlo program for neutron distribution in, 23:13469 (AERE-R-5773(Vol.3), pp 802-33)
shielding for, design of internal neutron, 23:13479 (AERE-R-5773(Vol.5), pp 1295-1321)
steam generator for, fabrication, inspection, and mechanical properties of niobium-stabilized chromium—molybdenum—steel for use in, 25:24561 (TRG-Report-2071)
structural response to dynamic loading from internal explosions, calculation methods for model and full scale, 23:28511 (EUR-4101, pp 379-91)
PROTOTYPE ORGANIC POWER REACTOR
coolants for, lubricating properties of Santowax R, 21:17461 (NAA-SR-Memo-6759)
PROTOZOA
Acanthamoeba sp., radiation effects on chemocytology of, effects of dose on x, 22:49189
Acanthamoeba sp., radiation effects on formation of supernumerary surface layers in, x, 25:11249
Acanthamoeba sp., radiation effects on morphology and physiological processes of, x, 22:45682
Acantharia sp., strontium-90 uptake by, 23:29484
Acantharia, strontium metabolism in, effects of, on strontium distribution in marine plankton, 21:36617
Acantharian, content in plankton in Atlantic Ocean, 21:28411 (IAEA-2607-13)
Acantharian, ecology of, 21:28411 (IAEA-2607-13)

Acantharian, strontium sulfate content in skeleton of, 21:28411 (IAEA-2607-13)
Acantharian, strontium-90 uptake by, in Atlantic Ocean waters, 21:28411 (IAEA-2607-13)
Actinophrys sol, radiation effects on survival of, γ and uv, 22:21619
Actinosphaerium nucleofilum, radiation effects on survival of, γ and uv, 22:21619
Adelina tribolii, effects on survival of x-irradiated beetles, 23:958
Adelina tribolii, radiation effects on virulence of, for flour beetles, x, 21:26592
Allogromia laticollaris, radiation effects on growth of salt marsh, effects of light on, 25:39807 (NYO-3995-19)
Amoeba proteus, radiation effects on clone formation in postirradiation subcultures of, effects of dose on x, 22: 8628
Amoeba proteus, radiation effects on contractile vacuole, nucleus, pseudopodia, and uroid in, laser, 25:21826
Amoeba proteus, radiation effects on cultured, effects of dose rate and temperature on acute x, 23:14244
Amoeba proteus, radiation effects on division and survival of, role of cytoplasm and nucleus in photoreactivation of uv, 24:9918
Amoeba proteus, radiation effects on genetic stability of, in ethanol and methionine, 22:36236
Amoeba proteus, radiation effects on metabolism of DNA by, γ, 22:25712 (COO-78-163, pp 39-63)
Amoeba proteus, radiation effects on metabolism of, effects of actinomycin and cooling on γ and uv, 24: 7985
Amoeba proteus, radiation effects on survival of, exposed in culture medium, role of toxicity in x, 25:44942
Amoeba proteus, radiation effects on survival of, effects of strain on, 23:35857
Amoeba proteus, radiation effects on, effects of dose and mitotic stage on, 22:36351
Amoeba proteus, synthesis of RNA in ribosomes of, phosphorus-32 tracer study of, 23:29302
Amoeba sp., analysis for nucleic acids by activation, 21: 32579
Amoeba sp., function of Golgi apparatus in, 25:10338(T) (ANL-Trans-866)
Amoeba sp., radiation effects on metabolism of adenine and phenylalanine in, γ, 21:10797
Amoeba sp., radiation effects on osmotic concentration of vacuoles of, uv, 21:18151
Amoeba sp., radiation effects on protein and RNA contents in fragmented and whole, γ, 21:28686(T) (ANL-Trans-475)
Amoeba sp., radiation effects on synthesis of ribonucleic acid and protein in, effects of dactinomycin and temperature on repair of γ and uv, 25:51999
Amoeba sphaeronucleosus, radiation effects on morphology, reproduction, and survival of, protective effects of suramin against uv, 24:14522
analysis for nucleic acid content by activation, 21:32579
Anaplasma marginale, inoculation into cattle following vaccination with x-irradiated infected blood, 23: 50369(R) (ORO-3120-8)
Anaplasma marginale, radiation effects on immune reactions to infection by, in rabbits, γ, 23:10096
Babesia bigemina, radiation effects on infectivity of, in blood of cattle, effects of splenectomy on γ, 23:31891
Babesia rodhaini, radiation effects on erythrocytes infected with, effects of, on immunity of mice and rats following infection, γ, 25:2539
Babesia rodhaini, radiation effects on infectivity of mouse and rat erythrocyte-incorporated, γ, 25:46756
Babesiella ovis, radiation effects on resistance of sheep to, strontium-90β, 22:49570
Blepharisma intermedium, radiation effects on synthesis of nucleic acids and proteins in, during regeneration, carbon-14 tracer study of uv, 25:26648
Blepharisma intermedium, regeneration rate of cut, effects of hydrostatic pressure and heavy water on, 23: 12189
Blepharisma japonicum, radiation effects on oral ciliature of, comparison of uv with laser, 25:11322
Blepharisma undulans, radiation effects on, uv, 24:14577
Blepharisma undulans, radioinduced inhibition of mitosis in, photoreactivation of uv, 21:24310
buildup of parasitic, effects of sunspot cycle on, (T), 22: 43698
Ceratium sp., radioinduced oxidation of protoplasm of, uv, 22:31259
Cohnilembus sp., ecology at Eniwetok Atoll, 22: 30417(R) (TID-24205)
Colpoda maupasi, radiation effects on, effects of life cycle stage on uv, 24:34598
Colpoda sp., radiation effects on, repair of combined uv and x, 24:7983
Colpoda sp., radioinduced inactivation of, photoreactivation of uv, 24:14574
Colpoda sp., radioinduced injuries to, effects of caffeine, temperature, and uv on dark repair systems following, 25:13342
Colpoda, radiation effects on biology of, γ, 21:16543
conference on genetics of sexuality in, 24:34247
content of parasitic, in intestine of radiation chimeras, 22:28630 (ORNL-4100, pp 118-26)
Cyanophora paradoxa, analysis of blue-green symbionts of, by electron microscopy, 23:2160(R) (NYO-3354-3)
Cyclidium sp., ecology at Eniwetok Atoll, 22:30417(R) (TID-24205)
Dinophysis sp., radioinduced oxidation of protoplasm of, uv, 22:31259
Echinosphaerium nucleofilum, effects of pressure and temperature on axopods of, stabilizing effects of D_2O on, 25:32518
effects on survival of x-irradiated amoebae, 25:32521
Eimeria bovis, radiation effects on antigenicity of oocysts of, γ, 22:43268
Eimeria brunetti, radiation effects on resistance of chickens to, effects of bursectomy, cortisone treatment, and thymectomy on x, 25:21599
Eimeria maxima, radiation effects on resistance of chickens to, effects of bursectomy, cortisone treatment, and thymectomy on x, 25:21599
Eimeria tenella, use of irradiated oocysts of, to protect chickens against coccidiosis, 21:11149
Euglena gracilis, purification of photoreactivating enzyme from, 25:26619 (COO-1793-6)
Euglena gracilis, radiation effects on, photoreactivation of uv, development of model for, 23:31892
Euglena gracilis, radioinduced mutations in, for apochlorosis, 24:41816
Euglena sp., determination of cellular sites of synthesis in, 21:8679 (ORNL-3999, pp 176-206)
Euglena sp., determination of nucleic acid content of, using activation analysis, 21:32579
Euglena sp., photoreactivation of green colony formation in, factors affecting decay of, 21:9018
Euglena sp., radiation effects on alanine incorporation by, γ, 21:22824
Euglena sp., radiation effects on cells of, in two growth phases, γ, 21:22822
Euglena sp., radiation effects on chloroplast inactivation and photoreactivation in, uv, 21:18186
Euglena sp., radiation effects on cytoplasm of, photoreactivation of uv, 21:24310
Euglena sp., radiation effects on growth of, γ, 21:11067
Euglena sp., radiation effects on protein content of, γ, 21:22824
Euglena sp., radiation effects on uv absorption by cells of, γ, 21:22823
Euglena sp., radiosensitivity of 1-methyl-3-nitro-1-nitrosoguanidine resistant mutants of, γ and uv, 21: 34834
Euglena sp., radiosensitivity of RNA in cells of, use of carbon-14-labeled uracil for chromatographic studies of, 21:22823
Euplotes eurystomus, radiation effects on stomatogenesis of, effects of, on cell division, microbeam uv, 21:32807
Euplotes patella, radiation effects on metabolism of DNA by, γ, 22:25712 (COO-78-163, pp 39-63)
Farinocystis tribolii, effects on survival of x-irradiated beetles, 23:958
Farinocystis tribolii, radiation effects on virulence of, for flour beetles, x, 21:26592
Foraminifera sp., content of oxygen-16 and oxygen-18 in glacial-period, from arctic region, 22:42897 (CU-2663-9, App.G)
foraminiferans, crop in sublittoral and psammonlittoral communities of Long Island salt marsh, effects of environmental conditions on standing, 25:37208 (NYO-3995-15)
foraminiferans, distribution in salt marsh community, 25: 37754(R) (NYO-3995-20)
foraminiferans, radionuclide cycling in, in salt marsh community, 25:37753 (NYO-3995-18)
foraminiferans, role in removal of calcium-45, strontium-89, and strontium-90 from coastal marine environment, 25:37754(R) (NYO-3995-20)
Goniaulax polyedra, radioinduced oxidation of protoplasm of, uv, 22:31259
Gonyaulax polyedra, luminescence of, biological mechanisms for, 22:30410(R) (NYO-3401-4)
Gonyaulax polyedra, luminescence of, use of image brightness intensifier microscope system to study, 22: 40504
gregarine species parasitic on spatangoid urchins, description of new, 25:28880 (RLO-1750-59)
growth in Savannah River, effects of reactor effluents on, 25:18225 (TID-25634)
Hartmannellid sp., radiation effects on γ, 22:40914
Histomonas meleagridis, radiation effects on growth and pathogenicity of, effects of dose on x, 21:43535
Histomonas meleagridis, radiation effects on growth and pathogenicity of, effects of culture media on cobalt-60 γ, 23:26866
Histomonas meleagridis, radiation effects on in vitro growth of, effects of dose on γ, 25:4692 (COO-1209-13)
Histomonas meleagridis, radiation effects on in vitro growth of, effects of dose on γ, 25:42608
Histomonas meleagridis, radiation effects on in vitro growth of, effects of age and dose on γ, 25:24315
Histomonas meleagridis, radiation effects on pathogenicity of, in turkeys, γ, 25:19156
Hymenostomidae sp., ecology at Eniwetok Atoll, 22: 30417(R) (TID-24205)
infections of, effects of occurrence of latent, on susceptibility of x-irradiated Tribolium to infection by Bacillus thuringiensis, 21:24632
Leishmania mexicana, infectivity in x-irradiated mice, 23:38499
Leptomonas oncopelti, infections of milkweed bugs, zinc-65 tracer studies in relation to, 23:17905 (CONF-670503-, pp 711-14)
Nassula sp., characterization of feeding movements and structures of, 22:53495(R) (COO-235-49)
Noctiluca miliaris, luminescence of, use of image brightness intensifier microscope system to study, 22: 40504
Nosema whitei, effects on survival of x-irradiated beetles, 23:958
Nosema whitei, radiation effects on virulence of, for flour beetles, x, 21:26592
Opalina ranarum, radiation effects on survival of, continuous and pulsed microwave, 23:50827
Opalina ranarum, radiation effects on viability of, microwave, 21:11148
Paramecium aurelia photoreactivation of pyrimidime dimers in DNA of, 22:28399 (ORNL-4100, pp 40-7)
Paramecium aurelia, cell cycle time of cultured, effects of protection against natural radiation on, 24:51012
Paramecium aurelia, characterization of DNA of cytoplasmic symbionts of, 22:53495(R) (COO-235-49)
Paramecium aurelia, chromosome mapping in, 22: 53495(R) (COO-235-49)
Paramecium aurelia, development of kinetosomes in, electron micrographs of, 22:53495(R) (COO-235-49)
Paramecium aurelia, maintenance of cytoplasmic symbionts of, physiological mechanisms for, 22: 53495(R) (COO-235-49)
Paramecium aurelia, radiation effects on cultures of, protective effects of autogamy against ionizing, 23: 16377
Paramecium aurelia, radiation effects on differentiation of cilia of, uv, 24:2835
Paramecium aurelia, radiation effects on DNA of, production of pyrimidine dimers following uv, 23:2795
Paramecium aurelia, radiation effects on growth and reproductive capacity of, x, 23:33819
Paramecium aurelia, radiation effects on growth of, shielding effects of underground laboratory on natural ionizing, 25:13556
Paramecium aurelia, radiation effects on growth of, in underground laboratory, protective effects of rock wall against natural background, 24:12228
Paramecium aurelia, radiation effects on growth of, effects of dose on, 22:19435
Paramecium aurelia, radiation effects on pyrimidines in DNA of, photoreactivation of uv, 22:8445
Paramecium aurelia, radiation effects on survival of, in comparison to Paramecium jenningsi, x, 24:51021
Paramecium aurelia, radioinduced damage to cilia of, determination by electron microscopy, uv, 24:832
Paramecium aurelia, radioinduced delay in mitosis of, in comparison to Paramecium jenningsi, x, 24:51021
Paramecium aurelia, radioinduced delay of vegetative mitosis in, evaluation of models for x, 22:31240
Paramecium aurelia, radioinduced mutations in cilia of, uv, 23:33815
Paramecium aurelia, radioinduced mutations in, combined effects of cell cycle and photoreactivation on uv, 23:31709
Paramecium aurelia, radioinduced mutations in, comparison of repair of chemically-induced mutations to uv and x, 24:23166
Paramecium bursaria, discharge of trichocysts by, effects of geranium extract on, 22:28272 (ANL-7278, pp 185-218)
Paramecium caudatum, cell cycle time of cultured, effects of protection against natural radiation on, 24: 51012
Paramecium caudatum, complement consumption by cultures of, prognosis of x radiation sickness in rats by, 23:20141
Paramecium caudatum, growth of, effects of thorium nitrates on, 23:38410
Paramecium caudatum, radiation effects on activity of dehydrogenases in, x, 24:7980
Paramecium caudatum, radiation effects on activity of dehydrogenases in, x, 22:36184
Paramecium caudatum, radiation effects on growth of, in underground laboratory, protective effects of rock wall against natural background, 24:12228
Paramecium caudatum, radiation effects on survival of, effects of stage of nuclear reconstruction on x, 22: 21607
Paramecium caudatum, radiation effects on synthesis of DNA in macronucleus of, effects of temperature adaptation on x, 22:21608
Paramecium caudatum, radiation effects on, role of pyrimidine hydroperoxides in, 22:51983
Paramecium caudatum, toxicity of γ-irradiated glucose solutions to, 22:15122
Paramecium jenningsi, radiation effects on survival of, in comparison to Paramecium aurelia, x, 24:51021
Paramecium jenningsi, radioinduced delay in mitosis of, in comparison to Paramecium aurelia, x, 24:51021
Paramecium multimicronucleation, radiation effects on osmoregulation in, effects of increased osmotic pressure and salt solutions on uv, 22:15121
Paramecium sp., cytology and genetics of, 21:8754 (ORNL-3999, pp 39-53)
Paramecium sp., effect of temperature on content of cytoplasmic RNA in, after x irradiation, 21:9033
Paramecium sp., mutation in, by N-methyl-N'-nitro-N-nitrosoquanidine, 21:8679 (ORNL-3999, pp 176-206)
Paramecium sp., photoreactivation of uv-induced conjugation delay in, 21:14776
Paramecium sp., radiation effects on ciliary movement of, uv, 21:11145
Paramecium sp., radiation effects on cytoplasm of, electron microscopy of late x, 21:24680
Paramecium sp., radiation effects on cytoplasm of, electron microscopy of early x, 21:24681
Paramecium sp., radiation effects on genetics of, uv, 21: 45505 (TID-24056)
Paramecium sp., radiation effects on genetics of, repair of genetic x, 24:34259
Paramecium sp., radiation effects on macro- and micronuclei of, during conjugation, γ, 21:18034
Paramecium sp., radiation effects on metabolic processes in P. caudatum, x, 21:24365
Paramecium sp., radioinduced mutations in, comparison of, to induction by TEM, x, 21:16324
Paramecium sp., radioinduced toxic reaction to, in rabbit blood, effects of polyvinyl alcohol on, 21:36499
Paramecium sp., radiosensitivity of, effects of clonal age on uv, 25:32522
Paramecium sp., structure of, electron micrography of, 25:37860 (ANL-7770, pp 100-1)
Paramecium sp., toxic effects of succinic acid peroxide on, 21:4879
Paramecium sp., toxicity of tritium-labeled water to, 22: 51459
Paramecium sp., use for determination of complement in blood serum of whole-body irradiated rats, 21:45795
Pelomyxa carolinensis, radiation effects on, effects of nonirradiated, homogenized protoplasm on uv and x, 25:37711 (ANL-7770, pp 149-56)
Pelomyxa carolinensis, radiation effects on, protective effects of transplants of unirradiated amoebae against uv, 24:41892 (ANL-7635, pp 186-99)
Pelomyxa carolinensis, structure of, effects of space flight on, 22:47503

Pelomyxa illinoisensis, radiation effects on mitosis in, effects of injected donor protoplasm or homogenated amoebae on x, 25:32521
Pelomyxa illinoisensis, radiation effects on repair of, x, 21:22772
Pelomyxa illinoisensis, radiation effects on survival of, effects of actinomycin D on x, 22:28537 (ANL-7278, pp 170-84)
Pelomyxa illinoisensis, radiation effects on survival of, effects of infusing normal cytoplasm on recovery from supralethal uv and x, 24:17127
Pelomyxa illinoisensis, radiation effects on survival of, protective effects of injections of unirradiated protoplasm against x, 22:28537 (ANL-7278, pp 170-84)
Pelomyxa illinoisensis, radiation effects on, effects of nonirradiated, homogenized protoplasm on uv and x, 25:37711 (ANL-7770, pp 149-56)
Pelomyxa illinoisensis, radiation injuries in, treatment of, with transplants of hyalin cytoplasm containing ribosomes, x, 23:45876 (ANL-7535, pp 69-73)
Pelomyxa illinoisensis, radioinduced death of, effects of injection of nitrogen mustard-treated cytoplasm on x, 24:51022
Pelomyxa palustris, electron microscopy of, 22:28537 (ANL-7278, pp 170-84)
Peridinium sp., radioinduced oxidation of protoplasm of, uv, 22:31259
photobiology of circadian rhythms in, 25:37857 (ANL-7770, pp 76-100)
photoreactivating activity in, review of distribution of, 25:21807
Plasmodium berghei, effects of irradiated, for vaccination of rats on phagocytic activity of reticulo-endothelial system, 25:21612
Plasmodium berghei, radiation effects on development and infectivity of sporozoites of, x, 25:29727
Plasmodium berghei, radiation effects on erythrocytes parasitized by, effects of, on immunity in mice and rats, 22:38473
Plasmodium berghei, radiation effects on infectivity of sporozoites of, in mice, 21:45849
Plasmodium berghei, radiation effects on infectivity of, in rats, effects of dose on, 24:50789
Plasmodium berghei, radiation effects on sporozoites of, production of immunity in mice by injection following x, 23:29723
Plasmodium berghei, radiation effects on sporozoites of, effects of, on immune reactions of mice following inoculation, x, 24:2583
Plasmodium berghei, radiation effects on sporozoites of, in vitro effects of immune serum on x, 24:2582
Plasmodium berghei, radiation effects on virulence of sporozoites of, in mice, x, 23:31677
Plasmodium berghei, radiation effects on, effects of, on infectivity in mice and rats following inoculation with parasitized blood, γ, 24:12013
Plasmodium berghei, radiation effects on, effects of, on infectivity in mice, 24:12014
Plasmodium berghei, radioinduced attenuation of, for use as antigen in vaccination, 23:38757
Plasmodium berghei, use of x-irradiated sporozoites of, for immunization against malaria in mice, 21:45849
Plasmodium chabaudi, radiation effects on sporozoites of, in vitro effects of immune serum on x, 24:2582
Plasmodium cynomolgi, radiation effects on development of, in liver of monkeys, x, 25:24314
Plasmodium cynomolgi, radiation effects on sporozoites of, in vitro effects of immune serum on x, 24:2582
Plasmodium falciparum, radiation effects on infectivity of, in monkeys, effects of dose on γ, 24:50789
Plasmodium gallinaceum, effects on survival time of x-irradiated chickens, 22:45676
Plasmodium gallinaceum, radiation effects on sporozoites of, in vitro effects of immune serum on x, 24:2582
Plasmodium gallinaceum, staining in mosquitoes for electron microscopy, use of uranyl acetate for, 22:49255
Plasmodium vinckei, radiation effects on sporozoites of, in vitro effects of immune serum on x, 24:2582
Plasmodium vivax, radiation processing of vaccines of, research on, 22:31305
Prorocentrum sp., radioinduced oxidation of protoplasm of, uv, 22:31259
Pseudocohnilembus sp., ecology at Eniwetok Atoll, 22:30417(R) (TID-24205)
radiation effects on, proposed mechanism for recovery from high dose x, 22:40879
radiation effects on, uv, 22:23672
radioisotope content in freshwater, barium-140 and lanthanum-140, 25:24012
radioisotope uptake by, from sea water, 21:20115
Radiolarian sp., extinction in relation to geomagnetic field reversals, 22:13371
radiosensitivity of single-celled, effects of nuclear number and ploidy on γ, 25:44978
role of planktonic, in marine food chain, 24:18831(R) (NYO-3658-21)
role of planktonic, in marine food chain, 25:34459(R) (NYO-3658-28)
Spathidium spathula, radiation effects on DNA synthesis and mitosis in, x, 23:38755
Spathidium spathula, radiation effects on lethality of, x, 21:8977
Spathidium spathula, radiation effects on micro nuclei of, x, 21:8977
Spathidium spathula, synthesis of DNA in, effects of mitomycin C and TEM on, 23:38755
Spathidium, radiosensitivity of, 21:22801(R) (NYO-3102-10)
Stentor coeruleus, radiation effects on oral regeneration in, cobalt-60 γ and uv, 23:41425
Stentor coeruleus, radiation effects on regeneration in, γ and uv, 21:45593
Stentor coeruleus, radiation effects on, during regeneration, microbeam uv, 23:48191
Stentor coeruleus, regeneration of, effects of actinomycin D, hydroxyurea, and puromycin on, 21:45593
Stentor coeruleus, synthesis of DNA by transferred nuclear nodes from Stentor polymorphus, in cytoplasm of, 22:33718 (UCLA-12-640, pp 61-80)
Stentor coeruleus, synthesis of RNA in, in relation to oral regeneration, 22:53498 (LA-3848, pp 11-20)
Stentor coerulus, DNA synthesis in graft complexes of, role of cytoplasm in regulation of, 21:20034 (UCLA-12-612, pp 15-36)
Stentor polymorphus, radiation effects on metabolism and survival of, effects of dose on γ, 23:48190
Stentor polymorphus, synthesis of DNA by transferred nuclear nodes from, in cytoplasm of Stentor coeruleus, 22:33718 (UCLA-12-640, pp 61-80)
Stentor regeneration in effects of metabolic inhibitors on, 21:9022 (COO-78-143)
Stentor, radiation effects on regeneration in, γ and uv, 21:9022 (COO-78-143)
strontium-90 content of acantharians in Ligurian Sea in relation to content of strontium sulfate, 24:34210
Stylonychia mytilus, radiation effects on appearance of pseudomicronuclei in progeny of, x, 25:58096
survey of species in environs of Savannah River Plant, 24:39471 (TID-25393)
Tetrahymena pyriformis, calcium metabolism in, effects of antimetabolites and metabolic inhibitors on, 22:40515 (NYO-1822-25)
Tetrahymena pyriformis, calcium metabolism in, effects of deficiencies of folic acid, nicotinamide, pantothenate, pyridoxamine, riboflavin, and thiamine on, 22:30932 (NYO-1822-24)
Tetrahymena pyriformis, calcium uptake by, during growth, 22:30931 (NYO-1822-21)
Tetrahymena pyriformis, carbohydrate content of, cyclic variation in alcohol-soluble, 22:28399 (ORNL-4100, pp 40-7)
Tetrahymena pyriformis, cell division and macromolecular protein synthesis in synchronized, effects of heavy water and temperature on, 22:35812
Tetrahymena pyriformis, density of DNA in mitochondria isolated from, 22:12744 (BL-207)
Tetrahymena pyriformis, deuterium effects on mitosis in, effects of hydrostatic pressure on, 23:48189
Tetrahymena pyriformis, DNA metabolism in, effects of synchronized temperature shifts on, 25:49099 (UCLA-12-815, pp 1-36)
Tetrahymena pyriformis, genetic control systems and mating types of, 22:53495(R) (COO-235-49)
Tetrahymena pyriformis, mitosis in synchronized cells of, effects of thermal shock on, 21:32804 (USNRDL-TR-67-58)
Tetrahymena pyriformis, radiation damage to, repair replication of uv, 25:8636 (SU-326-P-7-X-22)
Tetrahymena pyriformis, radiation effects on activity of DNA nucleotidyltransferase in, electron and uv, 25:24045
Tetrahymena pyriformis, radiation effects on cell permeability of, γ, 24:834
Tetrahymena pyriformis, radiation effects on division of synchronized cells of, effects of transition time on uv, 21:32804 (USNRDL-TR-67-58)
Tetrahymena pyriformis, radiation effects on DNA in, repair of uv, 22:19309(R) (SU-326-P-7-194)
Tetrahymena pyriformis, radiation effects on respiration of, effects of phosphate buffer on γ, 22:25988
Tetrahymena pyriformis, radiation effects on structure of nucleoproteins in, 25:35206
Tetrahymena pyriformis, radiation effects on survival of, uv and x, 22:36421
Tetrahymena pyriformis, radiation effects on survival of, repair following uv, 23:20435
Tetrahymena pyriformis, radiation effects on survival of, effects of temperature on mixed γ and neutron, 23:6558 (AD-671943)
Tetrahymena pyriformis, radiation effects on synthesis of DNA in, uv and x, 22:12744 (BL-207)
Tetrahymena pyriformis, radiation effects on, effects of, on production of pyrimidine dimers, uv, 22:51441
Tetrahymena pyriformis, radiation effects on, protective effects of sulfhydryl substances against γ, 24:757
Tetrahymena pyriformis, radiation effects on, repair of uv, 22:28399 (ORNL-4100, pp 40-7)
Tetrahymena pyriformis, radiation effects on, repair of combined uv and x, 24:7983
Tetrahymena pyriformis, radioinduced damage to DNA in, excision repair mechanisms for uv, 24:9783
Tetrahymena pyriformis, radioinduced injuries to DNA of, mechanisms in repair of uv or x, 23:799
Tetrahymena pyriformis, radioinduced pyrimidine dimers in, inactivation of DNA following uv, 23:35657
Tetrahymena pyriformis, radiosensitivity of growth and DNA and RNA stability and synthesis in, effects of concentration of dactinomycin on γ, 25:58091
Tetrahymena pyriformis, radiosensitivity of, effects of caffeine, growth cycle, and recovery capacity on uv and x, 22:49455
Tetrahymena pyriformis, replication of DNA in synchronized cells of, determination of patterns for, 22:28272 (ANL-7278, pp 185-218)
Tetrahymena pyriformis, strontium metabolism in, effects of antimetabolites and metabolic inhibitors on, 22:40515 (NYO-1822-25)
Tetrahymena pyriformis, strontium uptake by, during growth, 22:30931 (NYO-1822-21)
Tetrahymena pyriformis, synthesis of DNA in mitochondria and nuclei of, 22:12744 (BL-207)
Tetrahymena sp., analysis of carbohydrates of, by chromatography, 21:8673(R) (ORNL-3978)
Tetrahymena sp., cytology and genetics of, 21:8754 (ORNL-3999, pp 39-53)
Tetrahymena sp., effects of environmental factors on duration of stages of mitosis in, 21:10239 (USNRDL-TR-1084)
Tetrahymena sp., isolation, characterization, and synthesis of RNA from mitochondria in, methods for, 22:1926(R) (NYO-3588-6)
Tetrahymena sp., photoreactivation of ultraviolet-inactivated, dose response relations for, 21:22816
Tetrahymena sp., radiation effects on DNA of, repair of uv and x, 22:21587
Tetrahymena sp., radiation effects on growth of, after inhibition of mitosis, x, 21:18025
Tetrahymena sp., radiation effects on growth of, x, 21:1843 (AD-640596)
Tetrahymena sp., removal and characterization of ribosomes from, 21:10237 (ORNL-3999, pp 125-6)
tetrahymena, analysis for nucleic acids by neutron activation methods, 21:27922
Tintinnopsis sp., methods of culturing for sea water microbiological assay, 22:33711(R) (NYO-3658-9)
Tokophrya infusionium, genetic studies on, 22:53495(R) (COO-235-49)
Trichomonas vaginalis, radiation effects on bacterial and fungal populations accompanying, in therapy of human gynecological neoplasms, γ or x, 24:23407
Trichomonas vaginalis, radiation effects on cultured, 8,000 to 320,000 rad cobalt-60 γ, 24:23301
Trichomonas vaginalis, radiation effects on cultures of, effects of nitrogranulogen and vitamin C deficiency on x, 25:21821
Trichomonas vaginalis, radiation effects on cultures of, ir, uv, and x, 25:21821
Trypanosoma congolense, radiation effects on infection by, in mice, x, 23:38821
Trypanosoma cruzi, radiation effects on growth, immunogenicity, infectivity, morphology, and survival of, γ, 23:50377
Trypanosoma cruzi, radiation effects on infectivity of, in mice, γ, 22:23481(R) (PRNC-102)
Trypanosoma cruzi, radiation effects on infectivity of, in mice and in tissue cultures, γ, 24:29846
Trypanosoma equiperdum, immune reactions of rats to, studies on radioprotective effects of endotoxins using, 25:55267
Trypanosoma rhodesiense, radiation effects on infectivity of, in mice and rats, cobalt-60 γ, 24:34166
Trypanosoma rhodesiense, radiation effects on infectivity of, in mice and rats, γ, 24:50788
Trypanosoma sp., incidence in voles of Tennessee, 23:16381
Uronema sp., ecology at Eniwetok Atoll, 22:30417(R) (TID-24205)
Vorticellid, effect on removal of phosphorous-32 from raw sludge, 22:10534
zinc-65 content of marine, off Oregon, effects of diel, season, and geographic location on, 22:31015

PRP Reactor
  see Plutonium Recycle Test Reactor
PRPP
  see Ribose, 5-Phosphate-1-pyrophosphate
PRPP Kinase
  see Ribophosphate Pyrophosphokinase
PRR
  see Philippine Research Reactor
PRTR
  see Plutonium Recycle Test Reactor
PRUSSIAN BLUE
  cobalt-57 electron capture decay in doped, reactions of iron-57 from, 25:13068
  colloidal, use for removal of cesium-137 and iron-59 from rats, 23:38565
  effectiveness for removal of cesium-137 from body of man and rats, 25:21738
  effectiveness for removal of cesium-137 from rats, 25:8662(T) (UCRL-Trans-10488)
  effectiveness of orally administered, for inhibiting gastrointestinal absorption of cesium-137, 25:35134
  effects on cesium-137 and strontium-90 content in rats following chronic ingestion, 25:32453
  effects on cesium-137 excretion by gravid, lactating, and normal rats, 23:2850(T) (LA-tr-68-10)
  effects on cesium-137 excretion in man, 23:24541
  effects on cesium-137 excretion in rats, combined effects of pilocarpine and, 25:26583
  effects on cesium-137 retention by rats, combined effects of pilocarpine and, 24:31831
  effects on distribution of mixed cesium and strontium radioisotopes in man following ingestion, 25:55113
  effects on half life of cesium-137 in man, 22:45402
  formation of, calorimetry of, 24:36113 (COO-1782-3)
  preparation of colloidally-soluble, methods for, 25:8662(T) (UCRL-Trans-10488)
  radiation effects on iron-58-labeled, reactions of recoil iron-59 from neutron, 25:13068
  use as dietary additive for reduction of uptake of cesium-137 and strontium-90 by man, 24:9800 (CONF-690303-, pp 201-16)
  use for cesium-137 removal from rats after ingestion, 23:35721
  use for removal of cesium-137, 22:38255(R) (EUR-3918)
  use for removal of cesium-137 from rats, 24:11905 (EUR-4281)
PSCC (Fort St. Vrain) Reactor
  see Fort St. Vrain Power Reactor, Unit 1
Pseudocumene
  see Benzene, 1,2,4-Trimethyl-
Pseudomonas
  see under Schizomycota
PSEUDOUREA, 2-(3-AMIDINOPROPYL)-2-THIO-
  dihydrochloride, determination of maximum tolerable and mean lethal doses of, in mice, 21:24488
  dihydrochloride, method for synthesis of, 21:24488
  dihydrochloride, radioprotective effects on survival of mice, x, 21:24488
PSEUDOUREA, 2-(2-AMINOETHYL)-
  radioprotective effects of, on life span of mammals, tracer studies of, 23:43803
PSEUDOUREA, 2-(2-AMINOETHYL)-1-ETHYL-2-THIO-
  dihydrobromide, effects on radiosensitivity, 21:24067 (NIRS-5, pp 10-16)

  dihydrobromide, preparation and chemical reactivities of, 21:24067 (NIRS-5, pp 10-16)
Pseudourea, 2-(2-Aminoethyl)-2-thio-
    see AET
PSEUDOUREA, 2-(3-AMINOPROPYL)-2-THIO-
  chemical transformations of, use of pH changes to calculate, 23:48085
  effects of alkali on pH of solutions of, 21:8856
  radioprotective effects of, in relation to metabolic action, 24:34393
  radioprotective effects of, on cats, dogs, mice, rabbits, and rats, ionizing, 23:50638
  radioprotective effects of, on SCH cells, γ, 22:25892
  radioprotective effects of, spectrophotometric study of mechanisms of, 22:31181
  transquanylation of, 23:17302 (NIRS-7, pp 11-18)
PSEUDOUREA, 2-ETHYL-2-THIO-
  effects on paratyphoid infections in mice and reproduction of bacteria, prophylactic and bacteriostatic, 23:38620
  radioprotective effects of, alone or in combination with cysteamine and massive saline therapy on mice, lethal whole-body γ and x, 24:41912
PSEUDOUREA, 2-METHYL-
  hydrochloride, radiation effects on, ESR spectra of free radicals from x, 22:27788
PSEUDOURIDINE
  phosphates, radiation effects on, uv, 21:17994
  radiation effects on excretion of, by rats, x, 21:36500
  radiation effects on excretion of, in urine of normal and tumor-bearing rats, 23:2944
  radiation effects on synthesis and excretion of, 21:12802
  radiation effects on urinary excretion of, in animals and man, review of, 24:50747
  radiation effects on urinary excretion of, in rats, x, 21:22340
  radiation effects on, comparison with other uracil derivatives, 21:20104
  use as biochemical indicator of radiation injury in rats, 23:915
PSORALEN
  effects of trimethyl-, on vitiligo of human skin, combined effects of solar uv radiation and, 23:29662
  effects on hemolysis of uv-irradiated erythrocytes, 25:18914
  effects on uv-radiosensitivity of sea urchin sperm, 22:21563
  effects on uv-radiosensitivity of tumor-producing capacity of Ehrlich ascites tumor cells in mice, 22:25917
  radiation effects on reaction between pyrimidines and, uv, 23:2791
  radiation effects on reaction of, with DNA and RNA, role of thymine and uracil in uv, 22:47454
  radiation effects on solutions of, and thymine, uv, 22:16995
  radiation effects on, effects of, on Drosophila, 22:47457
  radioinduced binding of, to DNA and RNA, uv, 21:45550
  radiosensitizing effects on bacteriophage lambda. F' episomes, and Escherichia coli inactivation, uv, 25:55361
PSORALEN, 5,9-DIHYDROXY-
  effects on γ-radiosensitivity of Ehrlich ascites tumor cells, 25:4565
Psoralen, 8-Methoxy-
    see 8-Methoxypsoralen
PSORALEN, 8-METHYL-
  radioinduced photoreaction between DNA and, 23:49868
PSYCHOLOGY
    see also Behavior
  attitudes of nuclear personnel toward radioactivity risk, 23:22282 (EUR-4198)
  book: Problems in Cosmic Biology, Vol. 7, 22:47538
  effect of stresses on human performance reliability, 21:21835 (SC-R-67-1045)
  learning processes, use of adaptive systems to study unsupervised, 21:25757 (SC-CR-67-2547)
  use in treatment of radiation accidents, 23:31972 (CONF-690509-1)
Psychrometers
    see Hygrometers
PTB Reactor (Physikalisch—Technische Bundesanstalt)
    see Reactors, Research
PTERINS
  production by radiolysis of folic acid solutions, 21:23951
Pteris
    see under Filicinidae
PTEROPSIDA
    see also Angiospermidae
    see also Filicinidae
    see also Gymnospermidae
PTR (Pool Test Reactor)
    see Reactors, Swimming-Pool
PUBLIC HEALTH
  book: Advances in Environmental Sciences Vol. 1, 24:31900
  book: Developments in Water Quality Research, 24:44392
  epidemiology in, rapid in vitro radioisotope serological test for, 24:29646
  laws and regulations for sanitary inspection, 21:20186(T) (AEC-tr-6467/1)
  planning for radiation accidents, 24:9836 (STI/PUB-227)
  programs for radiation monitoring of water supplies in USA, 24:31964
  protection against environmental contamination by radioactivity and chemical pollutants, 24:9801 (CONF-690303-, pp 223-30)
  radiation protection standards affecting, in USA,AEC, ICRP, an NCRP, 25:11076
  radiological safety aspects of, 24:23233 (SWRHL-82, pp 721-8)
  research on, radioisotope tracer techniques for use in, 24:31897
PUERTO RICO
  agro-industrial complex for, economics of nuclear, 25:48323 (ORNL-TM-3445)
  Anasco Bay in, bottom sediments and topography of, (E), 22:21216 (PRNC-104, pp 118-20)
  calcium content of milk in, during 1963 to 1966, 23:31777
  desalination economics in, 25:46321
  ecology of starfish on coast of, 22:21408 (PRNC-104, pp 54-6)
  ecology of tropical rain forest in, 22:47496(R) (PRNC-103)
  ecology of tropical rain forest in, research on, 23:50400(R) (PRNC-129)
  education in nuclear technology in, summary of, 25:54336 (A/CONF.49/P-755)
  electron temperature in ionosphere above Arecibo, 23:30400 (N-69-19850)
  element content and distribution in biogeochemical environments in, stable, 22:43311(R) (PRNC-85)
  fallout monitoring in, during 1966, 22:23481(R) (PRNC-102)
  foraminifer distribution in Cabo Rojo platform of, 24:20672 (PRNC-136)
  nuclear power plants in, programming for optimum economics of, 25:10291 (TID-25630)
  nuclear reactors in, summary of existing and planned, 25:53912 (A/CONF.49/P-757)
  potassium content of milk in, during 1963 to 1966, 23:31777
  program for control of fascioliasis using irradiated metacercariae, 25:42246(R) (PRNC-148)
  radiation effects on biological processes in rain forest in, experimental cesium-137 γ, 22:43476 (PRNC-61)
  radiation effects on ecology of rain forest of, 25:42317(R) (PRNC-147)
  radiation effects on populations of microfungi in rain forests of, γ, 23:41274
  radiation effects on rain forest in, recovery from cesium-137 β and γ, 23:17968 (CONF-670503-, pp 88-98)
  radiation protection programs in, for diagnostic radiography, 24:21158 (PRNC-132)
  radioactivity monitoring of, airborne method for, 24:27229
  radioisotope content of milk in, during 1967 to 1968, barium-140, cesium-137, iodine-131, strontium-89, and strontium-90, 23:31777
  research activities at nuclear center in, description of, 23:41365 (CONF-670338, pp 299-314)
  research in marine biology at Puerto Rico Nuclear Center, progress report on, 22:21407(R) (PRNC-104)
  sediments in Lake Guayabal, design of gamma probe for in-situ measurements of density of, 24:39039 (PRNC-135, pp 269-86)
  sediments of Anasco Bay, clay mineralogy of, (E), 22:21218 (PRNC-104, pp 147-66)
  sediments of coastal western, dispersion patterns and trace element distribution in, 22:21217 (PRNC-104, pp 121-46)
  sediments off west coast of, distribution of aragonites, calcites, and α-quartz in marine, 22:43311(R) (PRNC-85)
  training in nuclear technology in, summary of, 25:54336 (A/CONF.49/P-755)
  tropical forests of, behavior and distribution of fallout in, 21:41010 (BMI-171-001)
Puerto Rico Nuclear Center
    see L-77 under Reactors, Research
PUERTO RICO POWER REACTOR
  component maintenance and testing in, 21:15662 (PRWRA-102)
  containment building leak testing for, 22:24974 (PRWRA-120)
  containment vessel for, seals for electrical penetrations for, 22:10051
  control elements for, fabrication of hafnium replacement, 23:37430
  control rod drop testing, 22:3845(R) (PRWRA-117)
  control rods for, design and fabrication of, 24:12376
  cooling system for, inspection and repair of preheater piping in, 25:36857
  core development program for, summary of advanced, 21:19348(R) (CEND-265)
  core parameter for, determination of FLARE adjustable, 21:23595 (CEND-295)
  critical experiment facility for, design of, 21:32008 (CEND-110)
  critical experiment for, operations manual for, 21:35706 (CEND-111)
  decommissioning of, final report on, 24:50001 (DOCKET-1154-2)
  decommissioning procedures for, 24:30986
  design and operating characteristics of, tabulation of, 22:7831
  design, development, and economics of, 21:5609 (COO-284(Vol.1))
  dismantling of, order authorizing, 23:40316 (DOCKET-1154-1)
  dismantling of, safety analysis for, 24:4005
  emergency procedures for nuclear and non-nuclear incidents at, 21:40573 (PRWRA-113)
  fuel assemblies for, description of inspection of, 22:18422(R) (PRWRA-119)
  fuel assemblies for, fabrication of rebuilt superheater, 21:31946 (ORNL-4072)
  fuel element development and testing, 21:13982 (ORNL-3970, pp 141-5)
  fuel element development and testing for, 22:8742 (ORNL-4170, pp 151-7)
  fuel elements for, brazing methods for superheater shell of, 25:55425
  fuel elements for, design of shipping container for, 24:41639 (K-L-6232)
  fuel elements for, economics of superheating, 21:31953
  fuel elements for, effects of phosphorus on Inconel cladding welds of, 23:976
  fuel elements for, fabrication process for superheater, 25:37024
  fuel elements for, ISOCHECK method for determining heavy isotope content in, 22:16118 (CEND-296)
  fuel for, enrichment requirements for, 21:23595 (CEND-295)
  fuel rod cluster design, 21:27677 (GEAP-5262)
  hazards summary report on, final, 21:12154 (PRWRA-GNEC-5(Rev.))
  heat transfer cycle efficiency for, economic comparison with BWR and PWR, 21:38465 (PRWRA-111)
  instrumentation for, calibration check of, 21:38465 (PRWRA-111)
  maintenance and operations for August 1967, 22:3845(R) (PRWRA-117)
  maintenance for June 1967, description of, 22:1774(R) (PRWRA-115)
  operation and performance during July 1967, 22:7818(R) (PRWRA-116)
  operation and testing of, Sept. 1966, 21:17467(R) (PRWRA-104)
  operation for June 1967, description of, 22:1774(R) (PRWRA-115)
  operation history of, 21:27745
  operation of, Aug. 1966, 21:13984(R) (PRWRA-103)
  operation of, materials performance in, 22:52192
  operation of, training programs on, 22:23481(R) (PRNC-102)
  operations and performance during September 1967, 22:16160(R) (PRWRA-118)
  operations during October 1967, 22:18422(R) (PRWRA-119)
  operations history and statistics for 1968, 24:3996 (TID-25254)
  operations history of, total, 22:1821
  operations of, tabulation of components and systems failures during, 25:39204(T) (LIB/Trans-357)
  operations of, tabulation of systems and components failures during, 24:20580 (NP-18160)
  performance test of feed water heaters of, 21:12153 (PRWRA-101)
  project justification data on, JCAE hearings on, 23:43077
  radiation protection standards for, 22:23507 (PRWRA-GNEC-7(Rev.2))
  radioisotopes in, notification of license requirements for byproduct, 25:7982 (DOCKET-1154-4)
  seismic effects on horizontal, vertical, and rotational motion in, free-field, (T), 24:26736 (ORNL-TM-2901)
  shutdowns during June 1967 of, analysis of, 22:1774(R) (PRWRA-115)
  site for, legal contract for radiation surveillance program for, 25:50957 (DOCKET-1154-5)
  site for, post-decommissioning surveillance program for, 25:7981 (DOCKET-1154-3)
  startup of, preoperational analysis program during initial, 22:18358 (CEND-PRWRA-270)
  steam dryer preheater pipes for, metallographic analyses and repair of cracks in, 21:31906 (CEND-284)
  testing of, kinetic behavior during transient, 21:7950
Puerto Rico Water Resources Authority Reactor
    see Puerto Rico Power Reactor
Puffatron Device
    see Magnetic Mirror Machines
PULSARS
    see also Neutron Stars
  activity of Vela X, 25:43039
  age of, (T), 25:22287
  amplitude variations in, long-period, (T), 22:34178
  angular momentum loss in, due to gravitational radiation, (T), 25:9063
  AP 0823 + 26, lower limits to distance estimates using neutral hydrogen absorption, (E), 23:25051
  AP 0823, polarization characteristics of, (E), 23:51249
  AP 0823+26, periodic variations in radiation intensity of, (E), 24:8278
  AP 1237, interstellar pulsations of, (E), 24:4939
  AP 1237, periodic variations in radiation intensity of, (E), 24:39782
  AP 1237+25, periodic variations in radiation intensity of, (E), 24:8278
  AP 1541, pulsed gamma emission from, search for high-energy, (E), 25:35705
  AP 1541, search for high-energy gamma rays from, (E), 24:21473
  AP 2015 + 28, pulse characteristics of, (E), 22:49972
  AP 2015, 21-cm line absorption profile for, (E), 24:42405
  AP 2015, distance to, (E), 24:42405
  AP 2015+28, periodic variations in radiation intensity of, (E), 24:8278
  AP 2303+30, periodic variations in radiation intensity of, (E), 24:8278
  atmospheres of, radiative opacities and Compton scattering in, (T), 24:35058
  beaming mechanism for, (T), 23:3212
  bibliography on, 25:38078 (TID-3320(Suppl.1))
  bibliography on, (T), 24:27960 (TID-3320)
  bibliography on, collection of first 51 papers for, (T), 23:48661
  birth rate of, comparison to Type-II supernovae occurrence, (T), 25:2842
  book: High-energy Astrophysics, 24:25819
  book: Pulsating Stars. 2. A Nature Reprint, 25:22299
  bremsstrahlung radiation in intense magnetic fields of, (T), 24:1157
  catalog of 37, (E), 23:34200
  CC 1919, correlation of subpulse structure in a sequence of pulses from, (E), 24:42413
  characteristics and physical nature of, (T), 23:1099
  characteristics of, (T), 22:31548
  characteristics of, (T), 22:41273
  characteristics of, (T), 22:43852
  characteristics of, (T), 24:19636
  characteristics of, review of, (T), 24:19625
  charged-particle resource in, magnetospheric, (T), 25:30154

Compton self-absorption accompanying induced Compton effect, (T), 25:45231
conference on, summary of, (T), 22:36594
coronal oscillations and radiation, (T), 23:25046
cosmic particle emission from, (T), 25:4978
cosmic-particle acceleration by, (T), 25:9253 (MPI-PAE/EXTRATERR-47)
cosmic-ray emission from, (T), 24:10262
cosmic-ray origin in, (T), 24:37059
cosmic-ray origin in, (T), 23:39153
cosmic-ray origin in, (T), 25:4979
cosmic-ray production from flares of, (T), 23:39166
cosmic-ray production in, (T), 24:19787
cosmic-ray production in, (T), 24:10401
cosmic-ray production in, (T), 23:39179
CP 0328, amplitude variation of successive pulses from, (E), 25:878
CP 0328, discovery of, (E), 22:43678
CP 0328, dispersion value for, (E), 22:49971
CP 0328, dispersion, period, position, and pulse shape of, (E), 22:52336
CP 0328, distance of, (E), 23:1098
CP 0328, drifting of spectral features of, (E), 25:9059
CP 0328, elliptical polarization of, (E), 24:3078
CP 0328, Faraday rotation measurements in, (E), 23:34190
CP 0328, Faraday rotation of, (E/T), 25:24783
CP 0328, frequency dependence of polarization of, (E), 23:16590
CP 0328, frequency dependence of polarization of, (E), 23:44072 (PB-183997)
CP 0328, intensity and pulse energy at 1415 MHz, (E), 25:32969
CP 0328, linear polarization at meter wavelengths, (E), 24:37067
CP 0328, lower limits to distance estimates using neutral hydrogen absorption, (E), 23:25051
CP 0328, measurement of distance by galactic hydrogen absorption, (E), 23:12479
CP 0328, polarization characteristics of, (E), 23:51249
CP 0328, polarization of radio pulses from, (E), 23:16586
CP 0328, pulsation periods of, (E), 22:43678
CP 0328, pulse slowdown rate for, (E), 23:41810
CP 0328, search for optical counterpart of, (E), 24:35059
CP 0329, long-baseline interferometry at 408 MHz of, (E), 24:17504
CP 0329, search for x-ray pulses from, (E), 24:42398
CP 0329, size of emitting region in, (E), 24:17504
CP 0808, discovery of, (E), 22:43678
CP 0808, dispersion value for, (E), 22:49971
CP 0808, dispersion, period, position, and pulse shape of, (E), 22:52336
CP 0808, main features of radio emission from, (E), 24:12563
CP 0808, marching subpulse structure in, (E), 24:15063
CP 0808, parameters of radio emitting region and brightness temperature for, (E), 25:24776
CP 0808, pulsation periods of, (E), 22:43678
CP 0808, pulse characteristics at 60 to 110 MHz of, (E), 24:35065
CP 0808, pulse properties of, (E), 24:42387(T) (CSIRO-Trans-10123)
CP 0808, radio intensity at 25 Mc of, (E), 25:24773
CP 0808, secondary periodicities in, (T), 24:21471
CP 0808, short-duration pulsations of, (E), 24:12563
CP 0808, spectra of, (E/T), 25:24783
CP 0808, spectral index of, (E), 25:24772
CP 0808, subpulse structure of, (E), 25:24776
CP 0834, drifting of spectral features of, (E), 25:9059
CP 0834, Faraday rotation measurements in, (E), 23:34190
CP 0834, frequency dependent pulse widths for, (E), 23:3212
CP 0834, interstellar pulsations of, (E), 24:4939
CP 0834, marching subpulse structure in, (E), 24:15063
CP 0834, multiplicity of secondary periodicities in, (E), 25:32963
CP 0834, periodic variations in radiation intensity of, (E) , 24:39782
CP 0834, polarization at 150 MHz, (E), 25:13855
CP 0834, positions of, (E), 22:45844
CP 0834, secondary periodicities at 80 MHz in, (E), 24:51321
CP 0834, secondary periodicities in, (T), 24:21471
CP 0834+06, periodic variations in radiation intensity of, (E), 24:8278
CP 0950, Faraday rotation measurements in, (E), 23:34190
CP 0950, impulsive emission between main pulses from, (E), 22:34149
CP 0950, intensity variations due to interstellar—interplanetary scintillations, (E/T), 25:45215
CP 0950, lower limits to distance estimates using neutral hydrogen absorption, (E), 23:25051
CP 0950, mass effect test on frequency during passage near sun, 23:6825
CP 0950, microsecond intensity variations in radio emissions from, (E), 25:58562
CP 0950, parameters of radio emitting region and brightness temperature for, (E), 25:24776
CP 0950, polarization at 150 MHz, (E), 25:13855
CP 0950, polarization characteristics of, (E), 23:51249
CP 0950, position of, (E), 22:41260
CP 0950, positions of, (E), 22:45844
CP 0950, pulse characteristics of, (E), 22:38671
CP 0950, pulse shapes at different frequencies, (E), 24:27981
CP 0950, pulsed gamma emission from, search for high-energy, (E), 25:35705
CP 0950, search for high-energy gamma rays from, (E), 24:21473
CP 0950, search for optical counterpart of, (E), 24:35059
CP 0950, search for pulsed gamma emission from, (E), 25:40238
CP 0950, secondary periodicities at 80 MHz in, (E), 24:51321
CP 0950, secondary periodicities in, (T), 24:21471
CP 0950, spectra at 83 and 111 MHz of, (E), 25:45228
CP 0950, spectra of, (E/T), 25:24783
CP 0950, spectral index of, (E), 25:24772
CP 0950, spectral variations of, (E), 25:32958
CP 0950, subpulse structure of, (E), 25:24776
CP 0950, upper limit for optical luminosity of, (E), 23:5144
CP 1133, attempt to detect gamma radiation or neutral particles from, (E), 22:52347
CP 1133, drifting of spectral features of, (E), 25:9059
CP 1133, emission of high-energy gamma rays from, (E), 24:4929
CP 1133, Faraday rotation measurements in, (E), 23:34190
CP 1133, frequency dependent pulse widths for, (E), 23:3212
CP 1133, gamma emission from, upper limits for, (E), 24:8363
CP 1133, interstellar pulsations of, (E), 24:4939
CP 1133, lower limits to distance estimates using neutral hydrogen absorption, (E), 23:25051
CP 1133, periodic variations in radiation intensity of, (E) , 24:39782
CP 1133, polarization at 150 MHz, (E), 25:13855
CP 1133, polarization characteristics of, (E), 23:51249
CP 1133, position of, (E), 22:41260
CP 1133, positions of, (E), 22:45844
CP 1133, pulse characteristics of, (E), 22:38671
CP 1133, pulse shapes at different frequencies, (E), 24:27981
CP 1133, pulsed gamma emission from, search for high-energy, (E), 25:35705
CP 1133, radio intensity at 25 Mc of, (E), 25:24773
CP 1133, search for emission of high-energy gamma rays from, (E), 23:5137
CP 1133, search for high-energy gamma rays from, (E), 24:21473
CP 1133, search for ultra-short light pulses from, (E), 23:39165
CP 1133, secondary periodicities at 80 MHz in, (E), 24:51321
CP 1133, secondary periodicities in, (T), 24:21471
CP 1133, size and motion of interstellar scintillation pattern from, (E), 24:17503
CP 1133, spectra at 83 and 111 MHz of, (E), 25:45228
CP 1133, spectral index of, (E), 25:24772
CP 1133, spectral variations of, (E), 25:32958
CP 1133, time variations of maxima and shape of pulses of, (E), 25:24775
CP 1133, upper limit for optical luminosity of, (E), 23:5144
CP 1133, upper limit to continuous emission from, (E), 23:10378
CP 1133+16, periodic variations in radiation intensity of, (E), 24:8278
CP 1919 spectra of, at 13 cm, (E), 22:29050
CP 1919, amplitude fluctuations studied over 5000-km base line of, (E), 22:49973
CP 1919, drifting of spectral features of, (E), 25:9059
CP 1919, Faraday rotation measurements in, (E), 23:34190
CP 1919, flux density at 2.07 m, (E), 24:25854(T) (CSIRO-Trans-9898)
CP 1919, gamma emission from, upper limits for, (E), 24:8363
CP 1919, intensities during April and May 1968 of, (E), 23:22764
CP 1919, intensity variations of, (E), 23:6818
CP 1919, interstellar pulsations of, (E), 24:4939
CP 1919, luminosity spectrum of, (E/T), 25:22296
CP 1919, nature of Ryle and Bailey's candidate star for, (E), 23:14508
CP 1919, optical detection of, 24:1187
CP 1919, optical polarization of blue star associated with, (E), 23:8397
CP 1919, optical pulsations from, search for, (E), 22:34186
CP 1919, period of, at 111.5 MHz, (E), 22:38674
CP 1919, periodic variations in radiation intensity of, (E) , 24:39782
CP 1919, polarization data for, (E), 24:27980
CP 1919, positions of, (E), 22:45844
CP 1919, properties of, (T), 23:44043
CP 1919, pulse characteristics at 38 MHz, (E), 25:7030
CP 1919, pulse characteristics of, (E), 22:38671
CP 1919, pulse delay times at meter wavelengths, (E), 24:1191
CP 1919, pulse intensity variations at different frequencies, (E), 22:36698
CP 1919, pulse shapes at different frequencies, (E), 24:27981
CP 1919, pulse spectra between 85 and 2700 MHz, (E), 22:36698
CP 1919, pulse structure and polarization, (E), 22:36698
CP 1919, search for periodic radiation at 3.5 mm from, (E), 23:10364
CP 1919, secondary periodicities at 80 MHz in, (E), 24:51321
CP 1919, secondary periodicities in, (T), 24:21471
CP 1919, slow periodic variations of pulse intensity for, (E), 24:23627
CP 1919, spectral index of, (E), 25:24772
CP 1919, statistical properties of, (E), 22:47780
CP 1919, upper limits for x-ray emission from, (E), 24:27993
CP 1919, variations of pulse amplitudes of, (E), 24:25855(T) (CSIRO-Trans-9899)
CP 1919+21, periodic variations in radiation intensity of, (E), 24:8278
CP0328, relativistic beaming of radiation from, (T), 23:46181
CP1919, detection of extended radio source in the direction of, (E), 25:13834
crust deformation in, progressive, (T), 24:27974
crust formation in outer layers of, (T), 23:41824
current sheets in, motion of, (T), 25:863
data tables for, position and dispersion measure, 25:16684
decay of, in binary systems, (T), 25:58424
declinations and periods for seven, accurate, (E), 24:23635
densities of, (T), 24:17525
density of, (T), 24:19621
detection from seismic signals, (E), 24:1183
detection of extragalactic, (T), 23:51218 (NYO-1932(2)-152)
detection of extragalactic, (T), 25:7040
detection of extragalactic, (T), 24:3088
detection of high-dispersion, in southern galactic plane, (E), 25:24785
detection of, (E), 23:14484
detection of, at site of supernovae, 24:15073
detection of, instrument for optical, (E), 24:42401
detection of, optical, (E), 25:9090
discovery and characteristics, review of, (T), 23:1097
discovery of fifth, (E), 22:43679
discovery of MP 0940, MP 0959, and MP 1747, (E), 23:10366
discovery of seven, by Molonglo Radio Observatory, (E), 23:3211
discovery potential for, of Molonglo Observatory, (E), 23:34186
dispersion measure for, relation to distance, (E), 23:51257
dispersion measure of, HII region contribution to, 25:22281
dispersion measures for twelve, (E), 25:27350
dispersion measures for, (T), 25:30118
dispersion measures for, increase of, (T), 25:24751
dispersions of 13, accurate determination of, (E), 24:8274
distance estimates for, (E), 23:16585
distance of, (E/T), 25:35681
distance of, effects of turbulent structure of Milky Way on interpretation of, (T), 23:41883
distance to, (T), 23:20595
distance to, measurement by galactic hydrogen absorption, (E), 23:12479
distances of, (T), 24:6332
distances to, (E), 23:1104
distances to, (E), 24:15071
distances to, (T), 22:47778
distances to, (T), 25:2854
distances to, from galactic electron densities, (T), 23:34184
distances to, from information of interstellar hydrogen distribution, (T), 23:41815
distances to, from radio-wave dispersion studies, (T), 24:32588
distribution along galactic plane, (T), 23:10366
distribution in clusters, (T), 25:7006
distribution in Milky Way, (E), 23:3211
distribution in Milky Way, (T), 24:25857(T) (CSIRO-Trans-9910)
distribution in Milky Way, (T), 25:858
distribution of, (E), 24:42396
distribution of, galactic, (E), 23:51257
distribution of, spatial, (E), 24:15073
duty cycles for, distribution of, (T), 24:10261
dynamics of, free, (T), 25:11596
effects of solar trajectory on measurements of, (E), 23:22764
effects on expanding supernova envelopes, (T), 24:44852
effects on magnetic field in Milky Way, (T), 23:46233
effects on primary cosmic radiation, (T), 24:51308
ejection in supernova events, (T), 25:11588
electric fields in, (T), 24:4915
electrodynamics of, (T), 24:42418
electrodynamics of, (T), 25:30154
electrodynamics of, Goldreich—Julian model for, 25:30220 (P-4494(RAND))
electromagnetic emission from, current-sheet model for, (T), 24:12546
electromagnetic fields associated, cosmic-particle acceleration in, (T), 25:38184
electromagnetic radiation emission from, acceleration of high-energy cosmic particles by, 23:20731
electromagnetic-wave buildup in, by induced Compton effect, (T), 23:41820
electron emission from Vela X, high-energy, (T), 25:9256
electron heating from induced Compton effect around, (T), 25:7026
electron temperatures for, (E), 23:16585
emission mechanism for, (T), 23:27255 (N-69-18108)
emission mechanism for, (T), 23:39149
emission mechanism for, (T), 25:58549
emission mechanisms for, (E/T), 24:51318
emission mechanisms for, (T), 24:35070
emission mechanisms for, (T), 24:32559
emission mechanisms for, antenna, (T), 25:9070
emission process for, (T), 24:44891
emissions from, test of variation of velocity of light with frequency with, (T), 24:3088
energy at centimeter wavelengths, average, (E), 23:36336
energy losses in, due to rotation and rf radiation, (E/T), 25:45213
energy source for supernovae, (E/T), 25:22295
energy source for, (T), 22:52346
energy transformation and emission in, plasma mechanisms of, (T), 24:32554 (NP-18255)
evolution of Jacobi ellipsoid by gravitational radiation, (T), 24:42321
evolution of rotating Jacobi ellipsoids, (T), 25:32948
evolution of, (E), 24:35069
evolution of, (T), 25:52552
evolution of, including effects of gravitational and magnetic radiation, (T), 24:39786
evolution of, radio, (T), 25:2842
evolution of, spinars in, (T), 25:13952

Faraday rotation in, (E), 24:30088
flux density at 11 cm, peak, (E), 22:38669
formation in supernovae, (T), 25:40215
formation in Type II supernovae, (T), 24:44852
formation of more than one, in gravitational collapse, (T) , 24:23620
formation of, from collapsing white dwarfs, (T), 25: 40225
formation of, mechanism for, (T), 23:27262
formation of, model for, (T), 24:35084
frequencies of, shift due to gravitational field of Sun, (T), 23:3208
frequency structure of, (E), 22:29053
frequency variations in, (E/T), 24:21472
galactic distribution of, (T), 22:36678
gamma emission at 1 to 10 TeV from, search for, (E), 24:12540 (AD-695838)
gamma emission from, processes for high-energy, (T), 23:14488
gamma emission from, search for, (E), 23:6819
gamma flux from, (E/T), 24:44890
general relativistic effects on frequencies of, (T), 22: 34190
gravitational radiation effects on secular stability of the Maclaurin spheroid, (T), 24:42320
gravitational radiation emission from, (T), 25:30092
gravitational radiation from, (T), 22:41206
gravitational radiation from, (T), 25:13846
gravitational waves from, detection from seismic response of Earth, (T), 23:27325
gravitational-wave emission from, (T), 25:2849
gravitational-wave emission from, (T), 24:19694
heating of gases in vicinity of, due to induced Compton effect, (T), 25:24781
HP 1506, dispersion value for, (E), 22:49971
HP 1506, dispersion, period, position, and pulse shape of, (E), 22:52336
HP 1506, Faraday rotation measurements in, (E), 23: 34190
HP 1506, polarization characteristics of, (E), 23:51249
HP 1506, pulse slowdown rate for, (E), 23:41810
hydrogen shells associated with, expanding neutral, (E), 24:39772
identification of Cyg X-1 and AGK2 as, (E), 25:47241
identification of Cyg X-1 as, (T), 25:49625 (N-71-23855)
identification of fifth, (T), 22:43852
infrared pulses from, (T), 25:2854
intensity and phase fluctuations of, rapid, (E), 25:40244
intensity fluctuations in, periodic, (E), 23:44085
intensity variations in, submillisecond, (E), 22:36697
intensity variations of seven, long-term, (E), 25:35713
intensity variations of, frequency structure of, (E), 23: 10370
intensity variations of, mechanisms for long-term, (E), 24:19639
intensity variations of, periodicities in, (E), 23:5151
ionization structure of nebulae associated with, (T), 25: 45227
ionization structure of, (T), 25:38086
JP 1845, discovery and properties of, (E), 24:48947
JP 1858, discovery and properties of, (E), 24:48947
JP 1933, distance from 21-cm line absorption profile, (E) , 25:55724
JP 1933, neutral-hydrogen absorption in spectra of, (E), 24:25874
JP 1933, parameters for, (E), 24:46934
JP 1933, scintillation parameters at 1420 MHz, (E), 25: 55724
JP 1946, parameters for, (E), 24:46934
JP 1953, discovery and properties of, (E), 24:48947
JP 2003, discovery and properties of, (E), 24:48947
JP 2021, parameters for, (E), 24:46934
JP 2111, parameters for, (E), 24:46934
JP 2319, discovery and properties of, (E), 24:48947
light curve for optical, in Crab Nebula, (E), 23:25055
light delays near, (T), 23:51183
light pulsations from, search for, (E), 22:28993
light pulses from, search for, 24:16915(R) (COO-614-71)
light scattering from, atmospheric, (T), 24:12554
luminosity at optical wavelengths, (E), 22:41257
luminosity of old, due to accretion of interstellar matter, (T), 24:51253
luminosity of, (E), 24:42396
luminosity of, secular decrease of optical and x-ray, (E), 25:9092
magnetic axes in, alignment of, (T), 24:23628
magnetic dipole radiation from, (T), 23:14483
magnetic field decay with age in, (T), 25:47240
magnetic fields in, (T), 24:6305
magnetic fields of, decay due to Ohmic dissipation, (T), 24:18046
magnetic fields of, decay of surface, (T), 25:2851
magnetic fields of, statistical model of atoms in, 25: 33086
magnetic models of, (T), 23:1105
magnetic models of, (T), 23:25059
magnetic-dipole alignment in, (T), 24:15061
magnetic-field effects in, (T), 25:24729
magnetic-field structure of envelopes of, (T), 25:7006
magnitude of, (T), 22:29035
mass determination for, (T), 24:15051
mass losses from, (T), 23:39150
matter ejection and accretion by, (T), 25:24779
mechanism for, (T), 22:34189
mechanism in supermassive disks undergoing fragmentation, (T), 25:58668
model for cosmic x-ray sources featuring, (T), 23:51237
model for emission mechanism, magnetorelativistic, (T), 24:12541
model for nonpulsing, standard, (T), 25:19372
model for Sco X-1 featuring weak surface field, (T), 25: 45220
model for, (T), 22:23959
model for, (T), 22:28986
model for, (T), 22:29055
model for, (T), 22:41172
model for, (T), 22:36678
model for, (T), 23:1097
model for, bouncing-core, (T), 24:10263
model for, Chiu, Canuto, and Fassio-Canuto, (T), 23: 30254
model for, difficulties associated with oblique rotator, (T) , 23:36335
model for, featuring alignment of radiation-field torques, (T), 24:12550
model for, featuring atmospheric pulsations of white dwarfs, (T), 23:10371
model for, featuring coherent neutral sheet radiation, (T), 25:52536
model for, featuring magnetic neutron stars, (T), 23: 18329
model for, featuring neutron binary systems, (T), 23: 3209
model for, featuring nonradial oscillations, (T), 23:36333
model for, featuring orbiting objects, (T), 22:34190
model for, featuring oscillating white dwarfs, (T), 23: 25046
model for, featuring plasma oscillations in magnetosphere of neutron star, (T), 22:38673
model for, featuring radially pulsating dense white dwarfs, (T), 23:25039
model for, featuring rapidly rotating supermassive, quasar, (T), 25:58496
model for, featuring relativistic effect in pulsating fluid spheres, (T), 24:4980
model for, featuring rotating and precessing neutron stars, (T), 24:37064
model for, featuring rotating ellipsoidal neutron stars, (T) , 24:1184
model for, featuring rotating neutron and white-dwarf stars, (T), 23:14483
model for, featuring rotating neutron stars, (T), 22: 34187
model for, featuring rotating neutron stars, (T), 23: 48643
model for, featuring rotating neutron stars, (T), 24: 27979
model for, featuring rotating neutron stars, (T), 25: 13832 (AD-711397)
model for, featuring runaway stars, (T), 24:27989
model for, featuring small orbiting companion, (T), 22: 38667
model for, featuring solar-cycle type mechanism, (T), 25:30131
model for, featuring underluminous white dwarfs, (T), 22:41145
model for, featuring white dwarfs with hydrogen burning at isothermal core, (T), 23:3213
model for, Jovian, (T), 23:34167
model for, neutron-star, (T), 23:39179
model for, oblique rotator, (T), 23:6833
model for, oblique rotator, (T), 24:42418
model for, oblique-rotator, (T), 25:30052
model for, planetary, 22:41275
model for, proposed test of Gold's, (T), 23:12478
model for, radio-emission, (T), 25:22296
model for, rotational—vibrational, (T), 23:32094
model for, synchrotron, (T), 24:3078
model for, unified, 23:48660
model for, vibrational, 22:43756
model of radiation mechanism for, featuring plasma turbulence, (T), 24:35079
model of, co-rotating magnetic field, 25:2850
model of, electrodynamics for, (T), 23:44043
model of, featuring neutron star, (T), 22:34191
model of, featuring oblique rotation of neutron stars, (T), 23:14512
model of, featuring oscillating perfect-fluid spheres with uniform density, (T), 23:10427
model of, featuring rotating neutron stars, (T), 23:10365
model of, featuring vibrating white dwarf stars, (T), 22: 45910
model of, featuring volcanic action, (T), 23:41811
model of, intermediate in density between neutron stars and white dwarfs, (T), 23:14448
models for (T), 25:52506
models for, (T), 22:34188
models for, (T), 24:1188
models for, (T), 24:37056 (AD-698206)
models for, (T), 25:858
models for, (T), 25:7038
models for, (T), 25:13846
models for, (T), 23:5150
models for, (T), 23:12484
models for, (T), 23:20597
models for, (T), 23:22765
models for, (T), 24:10230
models for, (T), 24:37076
models for, (T), 24:39769
models for, (T), 25:49618 (AD-714110)
models for, experimental method for distinguishing, (T), 24:42399
models for, general relativistic rotational properties of, 24:19595
models for, magnetic, (T), 23:46183
models for, review of, (T), 24:35088
models for, review of, (T), 24:44893
models of, (T), 23:14519
motion of proper, (E), 22:29035
motions in, crustal, (T), 25:13846
MP 0031, detection and properties, (E), 23:25062
MP 0031, marching subpulse structure in, (E), 24:15063
MP 0031, slow periodic variations of pulse intensity for, (E), 24:23627
MP 0031-07, radio emission from, (E), 25:7038
MP 0254, physical parameters of, (E), 23:51236
MP 0405, declination, period, and pulse shape of, (E), 25:24759
MP 0450, discovery and physical parameters of, (E), 23: 34186
MP 0628, Faraday rotation of, (E/T), 25:24783
MP 0628, linear polarization at meter wavelengths, (E), 24:37067
MP 0628, linear polarization of, (E), 25:30135
MP 0628, parameters of, (E), 24:27982
MP 0818, discovery of, (E), 24:12565
MP 0959, search for pulsed γ radiation from, (E), 24: 21484
MP 1154, physical parameters of, (E), 23:51236
MP 1240, detection and properties, (E), 23:25062
MP 1359, discovery of, (E), 24:12565
MP 1449, detection and properties, (E), 23:25062
MP 1530, detection and properties, (E), 23:25062
MP 1604, discovery of, (E), 24:12565
MP 1642, discovery and physical parameters of, (E), 23: 34186
MP 1706, physical parameters of, (E), 23:51236
MP 1727, relation of pulse period to inferred date of birth, (T), 23:41826
MP 1818, discovery and physical parameters of, (E), 23: 34186
MP 1857, discovery of, (E), 24:12565
MP 1911, physical parameters of, (E), 23:51236
MP 1944, discovery of, (E), 24:12565
nature of, review on, (T), 25:13844
neutrino emission from, (T), 24:27997
neutron emission from, (T), 25:9253 (MPI-PAE/EXTRATERR-47)
NP 0527, discovery of, (E), 23:34189
NP 0527, Faraday rotation measurements in, (E), 23: 34190
NP 0527, neutral-hydrogen absorption in spectra of, (E), 24:25874
NP 0527, period and pulse shape of, (E), 23:25053
NP 0527, position of, (E), 23:14511
NP 0527, proper motion and rate of period change for, (T), 24:27989
NP 0527, relation to NP 0531, (E/T), 25:35694
NP 0527, relation to NP 0532 and Crab Nebula, (E), 23:25053
NP 0527, search for pulsed gamma emission from, (E), 25:40238
NP 0527, search for ultra-short light pulses from, (E), 23:39165
NP 0527, search for x-ray pulses from, (E), 24:42398
NP 0531, relation to NP 0527, (E/T), 25:35694
NP 0532, absence of average polarization at 111.5 MHz in, (E), 25:11589
NP 0532, absorption by interstellar gases of photons from, (E/T), 25:11665
NP 0532, absorption of high-energy gamma rays in vicinity of, (T), 24:6314
NP 0532, accurate timing of light flashes during 1969—1970 season, (E), 25:9089
NP 0532, activity in Crab Nebula following Sept. 1969 spinup of, (E), 24:19629
NP 0532, analysis of slowing down rate of, (E), 23: 34192
NP 0532, angular-momentum loss by gravitational radiation, (E), 23:48637
NP 0532, average polarization and daily variability at 430 MHz, (E), 24:17502
NP 0532, behavior over short and long time scales of stabilized oblique rotators, (E/T), 25:47266
NP 0532, central density of, (T), 25:45233
NP 0532, characteristics of x-ray pulses from, 24:42398
NP 0532, circular polarization at 430 MHz in, (E), 24: 27991
NP 0532, Compton scattering of synchrotron radiation from, (E), 24:12551
NP 0532, conversion of rotational energy into energy of relativistic electrons, (T), 23:14507
NP 0532, crustal characteristics of, (E/T), 24:21472
NP 0532, deceleration parameter, (T), 24:39786
NP 0532, decrease of optical luminosity of, (E), 25:9092
NP 0532, detection of light pulses from, (E), 23:20601
NP 0532, detection of low-energy pulsed γ rays from, (E), 25:9062
NP 0532, detection of pulsed gamma rays from, (E), 25: 19361
NP 0532, detection of strong light flashes from, (E), 23: 14486
NP 0532, detection of strong optical flashes from, (E), 23:14485
NP 0532, disappearance of precursor pulse at 606 MHz, (E), 25:13848
NP 0532, discovery of, (E), 23:34189
NP 0532, distance to, (E), 24:42385(T) (CSIRO-Trans-10121)
NP 0532, effect of interstellar scattering on spectrum of, (E), 24:32561
NP 0532, effect of wavelength on velocity of light from, (E), 23:25127
NP 0532, effects of solar corona on pulses from, (E), 24:3083
NP 0532, effects on continuum spectra of Crab, (T), 25: 32968
NP 0532, electromagnetic spectrum of, (T), 23:51240
NP 0532, electron injection into Crab Nebula from, (T), 24:42386(T) (CSIRO-Trans-10122)
NP 0532, emission mechanism for, (T), 23:39149
NP 0532, emission of gravitational radiation from, (T), 24:25856(T) (CSIRO-Trans-9909)
NP 0532, emission of gravitational radiation from, (T), 24:15068
NP 0532, emission of hard x rays from, (E), 24:1158
NP 0532, emission of low-energy gamma radiation from, (E), 25:47260
NP 0532, emission spectrum of, (E), 24:12546
NP 0532, energy emission from, (T), 24:21470
NP 0532, energy flux of, (T), 24:44889
NP 0532, energy output of, (T), 24:21489
NP 0532, Faraday rotation measurements in, (E), 23: 34190
NP 0532, fine structure in light pulses from, (E), 24: 4930
NP 0532, frequency changes due to planetary system in, (T), 24:12553

NP 0532, frequency decay of, (E), 23:48637
NP 0532, frequency of starquakes in, (T), 24:32563
NP 0532, frequency structure in individual strong pulses of, (E), 25:38085
NP 0532, frequency variations, 24:21472
NP 0532, gamma spectra of, (T), 25:45211 (AD-719864)
NP 0532, gravitational radiation from, (T), 24:6305
NP 0532, hard x-ray spectrum during 1967, (E), 23:51248
NP 0532, high-frequency modulation of light from, (E), 25:19360
NP 0532, identification as spectroscopic binary, (T), 24:17524
NP 0532, identification of Baade's stars as, (E), 23:20601
NP 0532, infrared and optical measurements of, (E), 23:34191
NP 0532, interpretation of precursor pulse in, (E/T), 25:55719
NP 0532, light curve for, implications of oblique-rotator hypothesis in, (E), 23:34188
NP 0532, location in relation to center of Crab Nebula, (E), 25:40251
NP 0532, long-term slowing down and periodicity perturbations for, (E), 25:35685
NP 0532, magnetic field associated with, (E/T), 25:47235
NP 0532, magnetic field in, (T), 25:11591
NP 0532, magnetic moment and mass loss of, (T), 23:41830
NP 0532, magnetic moment of, (T), 24:4887
NP 0532, magnetic-dipole alignment in, (T), 24:15061
NP 0532, magnetic-field structure around (E), 25:13850
NP 0532, magnetic-field structure around, (E/T), 25:32955
NP 0532, maser mechanism for radiation emission in, (T), 25:19370
NP 0532, mean energy of pulse and subpulse of, (E), 25:24774
NP 0532, mechanism for pulsed gamma emission from, (E/T), 25:38088
NP 0532, model for high-frequency spectrum of, (T), 25:857
NP 0532, model for optical spectrum of, (T), 24:37077
NP 0532, model for, (E/T), 25:22296
NP 0532, model for, (T), 23:34183
NP 0532, model for, (T), 25:40252
NP 0532, model of glitches in, (E), 25:52537
NP 0532, multipath delay distortion of pulses from, (E), 25:35689
NP 0532, nature of emission from, (E), 24:12562
NP 0532, observation of pulsed hard x rays from, (E), 23:34193
NP 0532, optical and x-ray bursts from, (T), 25:9072
NP 0532, optical and x-ray synchrotron radiation from, (T), 24:44889
NP 0532, optical flashes from, origin of, (T), 23:51244
NP 0532, optical identification and observations of, (E), 23:14509
NP 0532, optical identification with shutter-type instrument, (E), 24:42401
NP 0532, optical observations of, (E), 23:39156
NP 0532, optical polarization and intensity of, (E), 25:7015
NP 0532, optical polarization measurements of, (E), 23:41997
NP 0532, optical polarization of, (E), 23:27280
NP 0532, optical polarization of, (E), 25:2843
NP 0532, optical time-of-arrival measurements from, (E), 25:35695
NP 0532, optical timing of pulses from, (E), 24:46918
NP 0532, period during 1967 of, (E), 23:51248
NP 0532, period of optical pulsations from, (E), 23:20603
NP 0532, period of, (E), 23:27278
NP 0532, periodic wobble in arrival times of optical pulses from, (E), 24:48949
NP 0532, photoelectric spectrophotometry of, (E), 23:22750
NP 0532, photon field around, collision consequences of intense, (E/T), 25:35706
NP 0532, physical conditions in, (T), 24:51300 (AD-706078)
NP 0532, planetary companion of, (T), 24:35078
NP 0532, planetary system for, (T), 25:24751
NP 0532, polarization of radio pulses from, (E), 24:17501
NP 0532, polarization of strong pulses at 430 MHz, (E), 25:880
NP 0532, position determination for, (E), 25:58537
NP 0532, position of, (E), 23:14511
NP 0532, production of γ rays in, (E/T), 25:47267
NP 0532, properties of Crab, (T), 23:44043
NP 0532, properties of, (E), 23:14481
NP 0532, pulse characteristics at 38 MHz, (E), 25:7030
NP 0532, pulse characteristics of, (E), 24:46934
NP 0532, pulse gamma emission from, (E), 25:45217
NP 0532, pulse shapes for, (E), 24:27962
NP 0532, pulse shapes, flux densities, and dispersion of, (E), 25:7035
NP 0532, pulsed gamma emission from, (E), 24:37065
NP 0532, pulsed gamma emission from, (E), 24:42419
NP 0532, pulsed gamma emission from, (E), 24:37066
NP 0532, pulsed gamma emission from, (E), 25:2841 (CEA-CONF-1633)
NP 0532, pulsed gamma emission from, (E), 25:47249
NP 0532, pulsed γ-ray emission above 50 MeV from, (E), 24:27994
NP 0532, pulsed x-ray emission at 30 to 100 keV from, (T), 25:52542
NP 0532, pulsed x-ray emission from, (E), 23:39151
NP 0532, pulsed x-ray emission from, (E), 23:46178 (N-69-29863)
NP 0532, pulsed x-ray emission from, (E), 25:47253
NP 0532, pulsed x-ray emission from, (E), 25:16685
NP 0532, quasi-sinusoidal oscillation in arrival times of pulses from, (E), 24:23625
NP 0532, radiation emission from, (T), 25:13832 (AD-711397)
NP 0532, radiation mechanism for, (T), 25:55729
NP 0532, radiation mechanism for, (T), 25:52550
NP 0532, radio pulse arrival times at Arecibo, (E), 25:58559
NP 0532, rapid fluctuations in light from, (E), 24:4925
NP 0532, recording technique for phase-resolved spectra of, (E), 24:51314
NP 0532, relation to compact source in Crab Nebula, (E/T), 24:23622
NP 0532, relation to NP 0527, (E), 23:25053
NP 0532, relation to small-angular-size radio source in the Crab Nebula, (E/T), 25:7008
NP 0532, relativistic-particle emission from, (T), 24:15060
NP 0532, rotation measure and intrinsic angle of radio emission from, (E), 25:45224
NP 0532, rotation rate changes in, (E), 25:52537
NP 0532, rotational energy losses from, (T), 24:4928
NP 0532, scattering by interstellar grains of x rays from, (E), 24:23636
NP 0532, scattering of x radiation by interstellar dust from, (T), 24:3081
NP 0532, scattering on interstellar grains of x rays from, (E), 24:21474
NP 0532, search for nanosecond optical pulses from, (E), 23:30238
NP 0532, search for pulsed gamma emission from, (E), 25:40238
NP 0532, search for pulsed gamma emission from, (E), 25:58542
NP 0532, search for ultra-short light pulses from, (E), 23:39165
NP 0532, second time derivative of period of, (E/T), 24:4924
NP 0532, secular increase of period of, (T), 23:39150
NP 0532, shape and period fluctuations of, (E), 24:27966
NP 0532, short-term stability of, (E), 25:45235
NP 0532, simultaneous optical and radio observations of, (E), 23:27277
NP 0532, solar occultation of, (E), 25:19373
NP 0532, spectral index of, (E), 25:24774
NP 0532, spectral indices of pulses at 410 and 1664 MHz, (E), 25:11598
NP 0532, spectroscopic observations of, (E), 23:39157
NP 0532, starquake of Sept. 1969, (E/T), 25:47266
NP 0532, sudden increase in rotational frequency of, (E), 25:45214
NP 0532, synchrotron emission from, relation to relativistic-particle injection into Crab Nebula, (T), 24:15060
NP 0532, television detection of, (E), 23:20613
NP 0532, time-of-arrival measurements of optical pulses from, 25:2853
NP 0532, upper limits to gamma emission from, (T), 23:41816
NP 0532, variations of period of, (E), 24:10253
NP 0532, vortex-lattice vibrations in, (T), 24:42407
NP 0532, x-ray and optical pulses from, (E), 23:30248
NP 0532, x-ray emission from, (E), 24:35081
NP 0532, x-ray pulsations from, (E), 25:19359
NP 0532, x-ray pulses from, (E), 25:870
NP 0532, x-ray spectra of, (E), 25:16675
NP 0833-45, size estimation of, (E/T), 25:7008
NP 0834, search for pulsed gamma emission from, (E), 25:40238
NP0527, detection in vicinity of Crab Nebula of, (E), 23:8398
NP0532, detection in vicinity of Crab Nebula of, (E), 23:8398
NP0532, dispersion measure for, (E), 23:51257
NP0532, emission of x-ray pulses from, (E), 23:27259
NP0532, energy radiated by, (T), 23:27255 (N-69-18108)
NP0532, optical observations of, (E), 24:35087
NP0532, optical observations of, (T), 24:35052
NP0532, radio observations of, (E), 24:35086
number-period distribution of, prediction using oblique-rotator model, (T), 25:13836
oblate cores in, (T), 25:35699
oblique-rotator model for, wobble and alignment time scales in, (T), 25:35699
observability of, (T), 24:10230
observation of galactic, 22:17273
observation of, radiotelescopes for, (E), 24:19622
observation of, review of progress in, (T), 23:20597
observational data on, review of, 24:1172
observational data on, review of, (T), 24:44893
observational developments in, (T), 25:35659
observations of, with the FIAN radiotelescope, (E), 23:22764
optical and radio emissions from, nature of, (T), 23:14487
optical pulses from fifteen, limits for, (E), 25:9061
oscillations of Hamada—Salpeter white dwarfs including general relativistic effects, (T), 22:34179
parameters of, analysis of observations on, (E), 24:35069
parameters of, associated with supernova remnants, (T), 24:12548
particle emission from, (T), 25:863
particle escape into nebula from, gamma-ray production by, (T), 25:58550
period changes in Vela and Crab, (T), 25:24780
period changes in, (T), 23:44087
period distribution of, (E/T), 23:34197
period distribution of, (T), 24:15062
period of, (E), 25:58545
period of, at 1919 + 21, (E), 22:29054
period variations of, secular, (T), 24:25857(T) (CSIRO-Trans-9910)
period—age distribution of, (E/T), 25:55687
period—age relation for, (E/T), 25:35681
period—latitude relation for, (E), 24:44882
period—luminosity relation for, (E/T), 25:35681
periodicities in, changing, (E), 23:10369
periodicity of 13, linear increase in, (E), 24:10254
periods and period changes of, (T), 25:22286
periods of five southern, (E), 24:25878
periods of rotating white dwarf models, (T), 22:43680
periods of, (T), 24:17525
periods of, causes of secular increase in, (T), 24:15068
periods of, distribution of, (T), 24:3082
periods of, galactic latitude distribution of, (E/T), 25:6996
periods of, rate of change of, (T), 25:47240
periods of, use in determining terrestrial rotation rate fluctuations, (T), 24:3068
periods of, use to measure rotation rate of Earth, (T), 24:15072
photometric observations of stars near position of CP 1919 + 21, (E), 22:38661
photon interactions with magnetic fields of, absorption coefficient and polarization selection rules for γ splitting from, (T), 24:52007
physical properties of, models for, (T), 23:27260
planetary companions of, (T), 24:35078
planetary systems for, (T), 24:12553
plasma acceleration away from, (T), 23:41830
plasma around, positron creation and annihilation in rarefied, (T), 25:45478
plasma oscillation studies in, 24:35073
polarization at 410 and 1665 MHz, linear and circular, (E), 25:58551
polarization characteristics of, at 13 cm, (E), 24:8266 (AD-693053)
polarization for six, linear, (E), 24:17520
polarization in linear, (T), 22:23964
polarization of pulses from, circular, (E), 22:36697
polarization of signals from, (E), 22:29059
polarization of, (T), 25:52552
position of, (E), 22:19718
position of, (E), 22:19717
position of, (E), 22:23962
position of, (E), 25:58545
positions for five southern, (E), 24:25878
PP 0943, discovery of, (E), 24:39780
PP 0943, discovery, period, position, and pulse characteristics of, (E), 24:1156
PP 0943, parameters of, (E), 24:27995
PP 0943, radio emission characteristics of, (E), 24:4916
production in supernovae, search of ancient Chinese records for, (T), 23:41826
production in Type II supernovae, (T), 25:35641
production rates for, in the Milky Way, (T), 23:20614
properties and origin of, (T), 25:30127
properties of CP 0834, CP 0950, CP 1133, and CP 1919, (E), 23:22765
properties of eleven, from time-of-arrival observations, 24:12555
properties of optical flashes from, associated with Crab Nebula, (E), 23:20623
properties of three, (E), 22:23965
properties of, (E), 23:12484
properties of, (E), 23:20594(R) (NP-17806)
properties of, (T), 23:5150
properties of, (T), 23:20596
properties of, (T), 23:46182
properties of, (T), 24:32559
properties of, (T), 25:4978
properties of, (T), 22:36594
properties of, lecture on, (T), 24:4919
properties of, observed, (T), 24:39769
properties of, review on, (T), 24:17493
properties of, review on, (T), 25:19375
properties of, role of magnetoturbulence in explaining, (T), 23:1100
PSR 0329 + 54, mode changing in pulses from, 25:58569
PSR 0329, polarization in, (E), 25:19358
PSR 0525 + 12, dispersion and rotation, pulse profiles, and polarization of, (E), 25:43053
PSR 0532 + 22, rotation and magnetic-field axes of, (E), 25:45225
PSR 0628, polarization at 150 MHz, (E), 25:13855
PSR 0736-40, radio absorption measurements at 21 cm, (E), 24:19612
PSR 0833 - 45, magnetic-field structure of, (E), 23:34201
PSR 0833 - 45, polarization measurements at 21, 18, and 13 cm, (E), 23:22849
PSR 0833 - 45, polarization structure of, (E), 23:34201
PSR 0833, crustal characteristics of, (E/T), 24:21472
PSR 0833, frequency changes due to planetary system in, (T), 24:12553
PSR 0833, frequency of starquakes in, (T), 24:32563
PSR 0833, frequency variations, 24:21472
PSR 0833, luminosity of, (E), 25:9092
PSR 0833-45, age of, 24:12561
PSR 0833-45, angular velocity increase in, (T), 23:41824
PSR 0833-45, change of pulsation period of, (E), 23:25057
PSR 0833-45, decrease in pulsation periods of, (E), 23:25058
PSR 0833-45, decrease in the period of, (E), 23:36334
PSR 0833-45, density, crust thickness, mass, and radius of, (T), 24:15051
PSR 0833-45, detection at position of supernova remnant, (E), 23:1101
PSR 0833-45, identification with Vela X, (E), 24:15073
PSR 0833-45, intensity distribution data for, (E), 24:27980
PSR 0833-45, intensity variations at 1720 MHz, (E), 24:4931
PSR 0833-45, interstellar scattering and low-frequency spectrum of, (E), 25:58540
PSR 0833-45, linear polarization at 4.8 GHz, (E), 24:6313
PSR 0833-45, linear polarization of signals from, (T), 23:14482

PSR 0833-45, linear polarization of, (E), 24:8266 (AD-693053)
PSR 0833-45, neutral-hydrogen absorption in spectra of, (E), 24:25874
PSR 0833-45, optical identification of, (E), 23:41812
PSR 0833-45, optical identification of, (E), 25:7000
PSR 0833-45, optical magnitude of, (E), 23:27280
PSR 0833-45, photoelectric measurements for optical identification of, (E), 25:7001
PSR 0833-45, polarization characteristics of, (E), 23:51249
PSR 0833-45, polarization measurements on, (E), 23:44069 (AD-685668)
PSR 0833-45, possible optical identification for, (E), 23:27261
PSR 0833-45, pulsation rate increase of, (T), 23:39166
PSR 0833-45, pulse broadening by interstellar scattering, (E), 24:51313
PSR 0833-45, radio absorption measurements at 21 cm, (E), 24:19612
PSR 0833-45, radio-emission mechanism for, (E), 24:17497
PSR 0833-45, rotational model for, (T), 23:14482
PSR 0833-45, search for optical flashes from, (E), 23:39152
PSR 0833-45, search for optical pulsations from, (E), 23:27273
PSR 0833-45, search for pulsed γ radiation from, (E), 24:21484
PSR 0833-45, short-term energy fluctuations of, (E), 24:12549
PSR 0833-45, speedup of, (T), 24:6310
PSR 0833-45, sudden decrease in period of, (E), 23:30253
PSR 0833-45, sudden increase in rotational frequency of, (E), 25:45214
PSR 0833-45, superfluidity in core of, (T), 24:6310
PSR 0835-45, gamma spectra of, (E), 25:45211 (AD-719864)
PSR 0838, search for pulsed gamma emission from, (E), 25:40238
PSR 0904+77, discovery and parameters of, (E), 23:18326
PSR 0950 + 08, temporal and spectral variations in pulse amplitude of, (E), 24:3084
PSR 1133 + 16, polarization of radiation from, (E), 25:874
PSR 1133 + 16, temporal and spectral variations in pulse amplitude of, (E), 24:3084
PSR 1237 + 25, correlated subpulse structure in, (E), 25:9064
PSR 1237 + 25, mode changing in pulses from, 25:58569
PSR 1237 + 25, peculiar pulse burst in, (E), 25:11586
PSR 1237 + 25, polarization of radiation from, (E), 25:874
PSR 1451-68, modulation effects in, (E), 24:44881
PSR 1451-68, short-term energy fluctuations of, (E), 24:12549
PSR 1508, polarization in, (E), 25:19358
PSR 1642, pulsed gamma emission from, search for high-energy, (E), 25:35705
PSR 1642, search for high-energy gamma rays from, (E), 24:21473
PSR 1749-28, discovery of, (E), 22:43820
PSR 1749-28, dispersion and pulse length of, (E), 22:52341
PSR 1749-28, dispersion, period, position, and pulse shape of, (E), 22:52336
PSR 1749-28, lower limits to distance estimates using neutral hydrogen absorption, (E), 23:25051
PSR 1749-28, measurement of distance by galactic hydrogen absorption, (E), 23:12479
PSR 1749-28, modulation effects in, (E), 24:44881
PSR 1749-28, polarization characteristics of, (E), 23:51249
PSR 1749-28, short-term energy fluctuations of, (E), 24:12549
PSR 1919 + 21, temporal and spectral variations in pulse amplitude of, (E), 24:3084
PSR 1929 + 10, neutral-hydrogen absorption in spectra of, (E), 24:25874
PSR 1929+10, periodic variations in radiation intensity of, (E), 24:8278
PSR 2022 + 51, polarization of radiation from, (E), 25:874
PSR 2045 - 16, polarization of radiation from, (E), 25:874
PSR 2045-16, discovery of, (E), 22:43820
PSR 2045-16, dispersion, period, position, and pulse shape of, (E), 22:52336
PSR 2045-16, modulation effects in, (E), 24:44881
PSR 2045-16, short-term energy fluctuations of, (E), 24:12549
PSR 2045-16, solar coronal effects on signals from, (T), 23:3215
PSR 2218 + 47, linear polarization of, (E), 25:19379
PSR 2218+47, discovery and parameters of, (E), 23:18326
pulsation damping by nonleptonic interaction in, (T), 24:12552
pulsation mechanism of, models for, (T), 23:39180
pulsation period of fifth, (E), 22:43679
pulsation periods of rotating white dwarf, (T), 22:41259
pulsation rates of, (T), 24:27927
pulsations of, rapid, (T), 22:23966
pulse amplitude variations in, (E), 22:41163
pulse amplitude variations of, (T), 23:10367
pulse arrival times for five, (E), 25:7002
pulse arrival times for, fluctuations in, (E), 24:46919
pulse broadening due to angular scattering in interstellar medium, (E/T), 25:13853
pulse characteristics for, sub-, (T), 24:44891
pulse characteristics of 10, (E), 24:27982
pulse characteristics of, (E), 25:58545
pulse characteristics of, (T), 25:9072
pulse characteristics of, (T), 23:20596
pulse characteristics of, (T), 24:42418
pulse characteristics of, use in studying circumsolar plasma, (E/T), 25:4920(T) (CSIRO-Trans-9897)
pulse composition of, (E), 23:1106
pulse delay measurements for, interstellar electron temperatures from, (E), 24:4936
pulse emission mechanism for, (T), 25:30149
pulse emission mechanisms for, (T), 24:10230
pulse energies at 410 MHz for seven, mean, (E), 24:23635
pulse energy at 11 cm, mean, 22:38669
pulse energy at 80 MHz for 21, (E), 25:47252
pulse fine structure at 1420 MHz, (E), 24:42411
pulse frequencies of, planetary systems as error sources in, (T), 25:24767
pulse mechanism for, (T), 23:1103
pulse mechanisms for, (T), 25:7006
pulse nulling from four, (E), 25:860
pulse periods for, two, (T), 24:3080
pulse profiles for twelve, (E), 25:27350
pulse properties of, (T), 25:52552
pulse shape of, (E), 22:29058
pulse shapes for nine, average, (E), 24:17520
pulse structure of, (E), 22:29161
pulse structure of, (T), 24:35070
pulse variations in, general features of short-term, (E), 25:11586
pulse width for seven, effective, (E), 24:23635
radiation beaming from, relativistic, (T), 23:46131
radiation emission from, circular components of polarization in, 25:19358
radiation emission from, optical, radio, and x-, (T), 25:863
radiation emission from, polarization of, (T), 24:35070
radiation emission mechanism based on nonlinear scattering, (T), 25:40236
radiation emission mechanism for, (T), 25:35660
radiation emission mechanism for, maser action in, (T), 25:19370
radiation emission mechanisms for, (T), 24:42418
radiation mechanism for, (E), 25:45224
radiation mechanism for, (T), 25:58431
radiation mechanisms for, (T), 24:35064
radiation mechanisms for, (T), 24:42412
radiation mechanisms for, (T), 25:13842
radiation mechanisms for, (T), 25:43079 (N-71-20472)
radiation of, parameters of the plasma affecting, (E), 22:29160
radiation-field torques in, alignment of, (T), 24:12550
radii and relative rotation rates for, (T), 22:41256
radii of, (T), 24:19621
radio brightness temperatures for, (T), 25:13842
radio emission from, (T), 25:52551
radio emission from, beaming of, (T), 24:42389
radio emission from, Faraday rotation of, (E), 23:6816
radio emission from, Faraday rotation of, (E), 22:41164
radio emission from, frequency dependence of group delay of, (T), 25:40311
radio emission from, mechanism for, (T), 24:17497
radio emission from, mechanisms for, (T), 23:46183
radio emission from, polarization of, (T), 25:24777
radio emission from, slow variations of, (T), 25:58522(T) (CSIRO-Trans-10649)
radio emission mechanism for, (T), 25:24782
radio emission mechanisms for, (T), 25:11595
radio emissions from, effects of dispersion by interstellar medium on, (E), 25:58562
radio intensity variations for ten, (E), 24:48946
radio luminosity of, (T), 25:2851
radio luminosity of, decay with age, (T), 25:47240
radio polarization at 11 cm of seven, linear, (E), 24:25877
radio pulse polarization from, (T), 24:42399
radio spectra of two, (E), 22:38662
radio-emission mechanism for, (T), 25:24779
radio-emission mechanism for, bremsstrahlung, (T), 24:23637
radio-emission mechanism for, maser amplification as, (T), 25:47232 (CONF-700411-, pp 88-117)
radio-emission models for, (T), 24:23627
radio-signal time delays from, due to interstellar dispersion, (T), 24:12544
radio-wave dispersion in interstellar space, (T), 23:16583
relation to neutron stars and supernovae, 24:10230
relation to quasars, possible, (T), 23:41833
relation to supernova remnants, (E/T), 24:51324
relation to supernovae, (T), 23:6824
research on, developments in, (T), 25:49597 (CONF-690732, pp 8.1-37)
research on, review of first-year, (T), 23:30243
rotation measures of, (E), 25:58545
rotation period of, effects on luminosity of supernova remnants, (T), 24:12570
rotational energy losses in, (T), 23:51237
scintillation of, interstellar, (E/T), 25:19351
scintillation of, interstellar, (T), 25:9072
scintillations at 2388 MHz, interstellar, (E), 25:9091
scintillations due to distant streaming of cosmic rays, (T), 23:27230
scintillations of, due to small-scale irregularities in interstellar space, (T), 25:13912
search for proper motion, (E), 22:41257
search for, associated with Cyg X-1, (E), 25:55728
search for, at 1400 MHz, (E), 23:34185
search for, by periodic dispersed pulse trains, (E), 23:34189
search for, digital methods in, (E), 23:25060
search for, in Cas A, (T), 25:38080
search of Sco XR-1 for characteristic pulses of, (E), 23:12473
search techniques for, (E), 23:41831
seismology of, (T), 25:22287
signal dispersion from, effect of interstellar density fluctuations on, (T), 24:19644
signal dispersion in, turbulent structure of Milky Way from, (E), 23:48674
signal dispersion, effect of interstellar density fluctuations on, (T), 25:872
signals from, method for reception of, (T), 25:869
size of, (T), 23:20595
spectra at 13 cm of CP 1919, CP 1133, CP 0950, and CP 0834, (E), 23:3214
spectra in range 110 to 420 MHz, dynamic, (E), 24:3076
spectra of long-period, (T), 25:22287
spectra of pulses from, (T), 23:20595
spectra of stellar, optical, (E), 22:29042
spectra of thirteen, dynamic, (E), 23:25064
spectra of, (E), 22:29058
spectra of, effects of induced Compton scattering by thermal electrons on, (T), 25:58527
spectral fines structure in pulses from, (E), 23:1102
stability of periods of, (E), 23:10368
structure of uniformly rotating relativistic thin disks, (T), 25:22254
structure of, variational principle for, (T), 25:838
superconductivity in, (T), 25:24778
superconductivity in, consequences of, 23:1078
superfluidity in, (T), 25:24778
survey of supernova remnants for, using ancient Chinese records, (T), 23:20615
synchrotron emission from electrons in, (T), 24:15078
synchrotron emission from, low mode coherent, (T), 24:15079
synchrotron radiation from, Compton scattering of, (E), 24:12551
theoretical interpretation of, review of, 24:1172
theory for, general relations in relativistic MHD for, 25:43701
theory for, possible application of continuity equation plasma oscillation for, 23:30239 (N-69-19783)
torque on, produced by stellar winds, (T), 24:4887
UP 1955, discovery of, (E), 25:47233
UP 1955, emission models for, (E), 25:47233
use for test of general relativity, (T), 22:31556
use for testing variation of speed of light with frequency, (T), 23:51218 (NYO-1932(2)-152)
use in new test of general relativity, (T), 23:1147
use to determine interstellar electron content, (T), 22:52351
use to test general relativity theory, (T), 22:52351
vibrational model of, 22:43756
vortex-lattice vibrations in, Ruderman's theory of, (T), 24:42407
white-dwarf and neutron-star interpretations of, (T), 22:29128
x-ray emission by young, effects on diffuse background, (T), 25:33042
x-ray emission from, in Cas A and SN 1572, (E), 24:21488
x-ray emission from, origin of cosmic background x radiation as, (T), 24:21470
x-ray emission from, thermal, (T), 25:52541
x-ray emission mechanism for, (T), 24:17506
x-ray pulsations from, (E), 25:19359
x-ray pulses from Crab Nebula, search for, (E), 23:25054

Pulse Amplifiers
see Amplifiers

PULSE ANALYZERS
see also Oscillographs
amplifier for Nuclear Data ND-120 multichannel, design of integrated circuit for, 22:28212
analog-to-digital converters for multichannel, design of fast, 23:41102 (EUR-4289, pp 179-91)
book: Multichannel Analyzers in Nuclear Physics, 22:30922
book: Multichannel Analyzers in Nuclear Physics (In Russian), 21:28331
calibration and differential linearity testing of multichannel time sorter, 24:11887
calibration and evaluation of multichannel, using PDP-8 computer, 22:47409
calibration of multichannel, for determining resolution effect in gamma—neutrino angular correlation measurements, 23:26528
calibration of spectra from multichannel, interpolation method for, 25:21474
calibration of, digitally-controlled precision pulse generator for, 21:16243
calibration system for space-borne particle spectrometer, digital closed-loop, 24:39328
channel identification in memory data display of multichannel, system for, 22:45371
channel selector for single-channel, design of, 22:4515
channel width adjustment of single-channel, integrated circuit for, 24:29600
channel width in experimentation with single-channel, choice of optimum, 21:24252
circuit for analog-to-digital converter for, time derandomizer, 24:4520
circuit for expanding count storage capacity, 25:18869
circuit for improving resolution of, 23:17818 (CEA-CONF-1157)
circuit for manual-entry keyboard operation of multichannel, design of, 21:30754
circuit for measurement of time-dependent spectra, routing, 25:35065
circuit for multichannel, for simultaneously measuring two independent amplitude spectra, 22:25663
circuit for plotting spectra from multichannel, design of logarithmic decoding, 23:43634
circuit for scalar overflow, 22:21377 (ORNL-4219, pp 4-17)
circuit for single-channel, 24:5960
circuit for two-parameter multichannel, design and construction of digital gate, 21:20007
circuit for x-ray spectrometers for electron microprobe analyzer, pulse rate, 24:11868
circuit for, design of pulse digitizer, 24:4524
circuitry for fast ADC's in, high-accuracy, 25:44667 (RT/EL-(69)7, Paper 8)
circuits for analog data storage from, 24:4519

circuits for auto-equalizing ADC's for, for improved speed, 25:44668 (RT/EL-(69)7, Paper 9)
circuits for multichannel, 22:33689 (ZfK-121, pp 1-133)
circuits for multichannel, description of coincidence, 21:22172
circuits for multichannel, design of gain stabilizing, 21:16210
circuits for multichannel, design of linear biased gating, 21:14504
circuits for multichannel, summing unit and visual readout, 23:17849
circuits for, description of 10 nsec to 100 μsec delay, 21:26302
circuits for, development of pile-up rejection, 21:19991(R) (RISO-M-448)
converter for multichannel, design and performance of analog-to-digital, 21:26269 (INR-769/III/E)
converter for, design of analog-to-digital, 23:9719(P)
converter for, linearity of analog—digital, 22:12704
converter for, proposal for multiple stop time-to-pulse height, 21:28316
converter for, review of analog—digital, 22:12705
converters for 8192-channel, used with semiconductor detectors for measuring gamma spectra, analog-to-digital, 22:43026 (JINR-P13-3911)
converters for grouping channels in, for coincidence measurements, design of analog-to-digital, 22:51285
converters for improving resolution of, design of analog-to-digital, 22:28238
converters for multichannel, design of analog-to-digital, 23:11923
converters for, analysis on amplitude-to-time, 21:28303 (JINR-P13-3275)
converters for, description of high-speed analog-to-digital, 22:43181
converters for, design of high-speed 4096-channel analog-to-digital, 22:36152
converters for, development of time-to-amplitude, 22:16944
converters for, packaging of analog-to-digital, 23:17840
counters for multichannel, description of multiple, 21:1585
counting losses in, method for precise determination of, 24:36574
counting rate losses with coupling to CDC 1700 computer, 22:20409(R) (GA-8449)
cross section data acquisition with multichannel, energy modulation of Van de Graaff accelerators for, 21:11882
data acquisition from multiple system of, computer-based system for, 24:4509 (UCRL-71780)
data acquisition system for group of, computer-controlled time-shared disk memory, 24:39400
data display from 4096-channel, description of energy spectra, 21:319
data from multichannel, accuracy of oscilloscope histogram display of, 22:329
data from multichannel, computer display and analysis of, 22:47410
data from multichannel, computer language and software for, 23:47893
data from multichannel, computer programs for analysis of, 22:331
data from multichannel, mean rate analysis of, 22:330
data from multichannel, strip chart recorder for recording, 22:2449 (INP-560/PS)
data from multichannel, use for detection of gamma sources against continuous background, 21:36458
data from multichannel, use of CDC-160A and CDC-3600 computers for processing, 21:14495 (CONF-660221-, pp 356-9)
data from single- or multichannel, computer program for graphical display of, 21:26273 (NAA-SR-Memo-12249)
data from, development of PDP-8 computer-based data acquisition system for, 21:30741 (ORNL-TM-1878)
data from, use of on-line programmed desk calculator for peak integration with background subtraction of data from pulse analyzers, 22:45360
data from, use of PDP-8 computer for associative analysis of, 21:20003
data from, used in biomedical gamma spectroscopy, data acquisition system for collecting, 22:2457 (UCRL-70547)
data handling for multichannel, use of small computers for pulse-height, 23:43628
data handling using CDC-160A computer, on-line input system for, 21:34548
data input distribution for, method of pair selection for, 21:20010
data input systems for, description of, 22:33689 (ZfK-121, pp 1-133)
data link control system for, development of computer-based, 23:50120 (UCRL-18667, pp 331-42)
data printout system of 4096 channel, design of digital, 22:40483 (DP-1154)
data processing for multichannel, computer programs for, 23:41132 (INR-953)
data processing for, use of light pen in, 24:4523
data processing system for, computer-based ARMSPAN, 23:43529
data recording from multichannel, use of transformations for, 21:32525
data recording system for multichannel, design and performance of, 21:351
data recording systems for, circuit modification for paper-tape punches for, 21:45464
data smoothing and differentiation for multichannel, computer program for, 24:41686 (UCRL-19903)
data storage devices for, design of electrostatic, 22:49110
data storage for multichannel, use of small computers for 7200-parameter coincidence, 23:43628
data transfer from Nuclear Data 130A, to ASC II paper tape, 24:25326 (ORNL-TM-2936)
data transmission to computer, system for, 25:23914 (ITEF-779)
dead time correction for gamma spectroscopy of short-lived radioisotopes, 25:37638
dead time correction for measuring half-life of short-lived radioisotopes, 25:8515
dead time correction procedure for multichannel, Monte Carlo modeling study of Harms, 24:39312
dead time of multichannel, multistage delay line memory systems for decreasing, 22:10643
dead-time correction device for, design of automatic, 22:47426
dead-time losses of multichannel, at variable counting rates, method for automatic correction of, 21:36461
deadtime correction at high counting rates, computer program for, 25:32261 (IA-1231)
deadtime effect in multichannel, equation for, 25:32310
deadtime effect in multichannel, equation for, 25:32311
description for nuclear spectroscopy, 22:49103(P)
description of 15-channel, using MOSFET memory devices, 22:23367
description of 64,000-channel 2-parameter, for coincidence measurements, 25:37590
description of automatic, with tracking sweep, 25:29367
description of computer-based Argonne multichannel stored program, 24:7644 (CONF-690301-, pp 340-53)
description of computer-based multichannel, 22:33692 (ZfK-121, pp 320-425)
description of continuously averaging multichannel, for x-ray diffractometer, 22:23379
description of fast amplitude, 21:22172
description of inexpensive 128 channel amplitude, with time digitizer, 21:345 (TID-23392)
description of monochannel, for detecting sodium-131, 23:726
description of multichannel, with radiometric gages for process control, 23:38339
description of programmed associative multichannel, 21:340 (AERE-R-5270)
description of reference-signal comparison, for use with proportional detectors, 25:18652(P)
description of single channel, for low-level measurements by gamma spectrometers, 21:24226
description of single-channel, with interchangeable detector capabilities, 24:27334 (CONF-690540-, pp 168-73)
description of time interval, for measuring half lives of isomeric nuclear states, 22:23369
description of timing single-channel, with fixed delay of output pulse, 21:36452
description of transistorized 256 channel, with magnetic-core memory, 21:32502
design and fabrication of multichannel, 21:39306
design and operation of, 23:19941
design and operation of multichannel time, 21:32541
design and operation of VA-V-100 linear amplifier/analyzer with specifications, 25:18873
design and performance of 16-channel, for high energy physics experiments, 21:43312
design and performance of all-transistorized 400-channel, 21:1680
design and performance of multichannel, 21:39304
design and performance of multichannel amplitude and time, 21:28331
design and performance of nanosecond time, for studying $\mu \rightarrow e$ decays, 21:45463
design and performance of peak-stabilized single-channel, 24:33965
design and performance of signal-shape discriminating plastic, 21:8592
design and performance of single-channel, for scintillation counter, 23:7725 (AERI-22)
design and performance of transistorized single-channel, 23:47787
design and performance of, for measuring amplitudes with accuracy of +-0.05 V +- 0.2 percent, 21:36459
design and performance of, with high resolution at high counting rates, 23:47904
design and use in portable x-ray fluorescence analyzer, 22:310 (ORNL-IIC-10(Vol.2), pp 817-4)
design for activation foil counting, 22:4453(P)
design for correlation of radio waves reflected from ionosphere, (E), 23:10541
design for measuring fission-fragment mass distributions, 22:32664
design for radiation detectors, 22:25660(P)
design for remote gamma spectroscopy at high altitudes, 22:28142
design for scintillation detector, 24:14274(P)
design for space applications, 22:40496
design for surface-barrier detectors, 22:2355
design for tomographic gamma ray scanner, engineering drawings for, 23:2576
design modification of NLZ 716a-T, in NZG 312-T spectrometer, 25:18862
design of 100-MHz multichannel, 23:14077 (CEA-CONF-1154)
design of 1024-channel time analyzer, 24:14357
design of 12 ns resolution single-channel, with pulse pile-up selector, 22:16943
design of 16,384-channel, for coincidence gamma spectrometers, 22:33657 (AD-663268)
design of 400-channel, with integrated circuits, 22:51283
design of 4096-channel, 23:22135
design of 512,000 channel bidimensional, using IBM 1800 computer, 25:6547
design of AERE 2000 series five-channel, 23:30923(R) (RHEL/R-170)
design of compact 128-channel, 22:8410(T) (AD-660962)
design of computer-based multichannel, 23:2688 (AERE-R-5844)
design of computer-based, for real time off-line analysis of gamma spectra from aerial surveying of radioactive minerals, 22:28241
design of direct-coupled, for nuclear particle spectrometry, 23:22074
design of fast discriminators for use with amplifiers for fast beam pickoff systems of Van de Graaff accelerators, 21:34515 (ORNL-4091, pp 1-14)
design of fast-gated charge, for high-energy beam flux and profile measurements, 21:16246
design of feedback-stabilized tunnel diode discriminators, 21:34515 (ORNL-4091, pp 1-14)
design of high-resolution 512-channel Laben, 21:28307 (RT/EL-(66)15)
design of high-speed, multichannel semiconductor, for use with Cherenkov and scintillation detectors, (E), 21:6293
design of large multichannel, using disk memory, 23:43625
design of large-memory, for gamma spectroscopy, 22:25706
design of million-channel, 22:43190
design of million-channel, through pseudo-random digital transformation, 23:17844
design of multichannel, 22:21396(P)
design of multichannel amplitude, with low dead time, 21:3358
design of multichannel time, utilizing binary scalers for storage, 23:47876(T) (NSJ-tr-150)
design of multichannel, connected on-line to computer for data analysis during measurements, 23:16198
design of multichannel, engineering drawings for, 22:25708
design of multichannel, for alpha and proton spectroscopy with silicon detectors on lunar surface, 22:12599
design of multichannel, for random amplitude nanosecond pulses, 23:733
design of multichannel, for time-of-flight mass spectrography, 21:16232
design of multichannel, with multistage delay line memory systems, 23:745
design of nanosecond pulse branching discriminator, (E), 21:1692
design of one-point sampler, for determining amplitude of fast transient pulses, 21:22201 (SCL-TN-66-113)
design of RAH-403 400-channel, 22:4513
design of risetime spectrometer for studying pulse shapes in lithium-drifted germanium gamma detectors, 22:49109
design of satellite-borne multichannel, 23:26543
design of single channel, with 100 ns resolution, 24:39237
design of single-channel, 25:1739(R) (NYO-73-293)
design of single-channel, for gamma spectroscopy, 21:32545
design of single-channel, with 16 ns resolution, 24:21040
design of single-channel, with peak-shift detection, 21:27574(R) (NYO-GEN-72-132)
design of six-parameter multichannel, 21:10006(R) (ORO-2843-11)
design of special purpose discriminators for delayed neutron spectrum measurements, 21:16248
design of synthesized optimum time-variant, 22:23371
design of thirty-two channel time, using binary scalers, 22:38153
design of thirty-two channel, for gamma spectrometer aboard Luna-10 space vehicle for investigation of cosmic radiation, 22:43084
design of time, for neutron time-of-flight spectrometer at Nevis synchrocyclotron, 23:49393(R) (NYO-72-227)
design of time-interval, 23:50112 (CEA-CONF-1339)
design of time-interval multichannel, for time-of-flight neutron spectroscopy, 23:17793(P)
design of transistorized multichannel, for low-level counting, 24:9724
design of transistorized single channel pulse height, 21:16219 (INR-763/III/E)
design of two parameter, for coincidence measurements in nuclear reactions, 21:14493 (CONF-660221-, pp 348-50)
design of versatile gated discriminator, for fast-slow coincidence measurements, 21:314
design of wide-range 512-channel, for satellite applications, 23:43626
design of wide-range digital time, with resolution of 50 psec, 22:10661
design of, for nuclear pulse spectrometry, 21:41289 (AERE-R-5021)
design study of computer-interfaced multichannel, for nuclear data, 21:16240
design using diode light source—photodiode detector, 23:33571(P)
design with glass delay-line memory for educational applications, 24:39265
design with paper tape readout for analysis of multiple simultaneous voltage pulses, 22:45373
design, operation, and uses of multichannel, review on, 23:14111
development and use of multichannel, for tracer studies, 23:41167
development at C.E.A, 21:34544
development at ORNL, Sept. 1968—Aug. 1969, 24:7689 (ORNL-4459, pp 1-5)
development at ORNL, Sept. 1969—Aug. 1970, 25:13318(R) (ORNL-4620)
development for mass analysis of charged products of nuclear reactions, 23:38366
development for multipurpose use in mines, 22:25700
development for use in activation analysis, 21:36431
development for use with semiconductor detectors, 21:30704(T) (NP-tr-1552)
development of, 21:41292(R) (NP-16972)
development of 16,000 channel 50-MHz, for time-of-flight measurements, 25:1739(R) (NYO-73-293)
development of 262,000 channel time-of-flight, 25:1739(R) (NYO-73-293)
development of amplifier—discriminator systems for fast fission chambers, 21:34515 (ORNL-4091, pp 1-14)
development of computer-based megachannel, 23:50212 (UCRL-71839)

development of Minsk-2 computer-based multichannel, 23:11906
development of multichannel, 22:14879
development of multichannel, 23:41087
development of multichannel, for measuring yields of photonuclear reactions, 21:1690
development of time, for use with semiconductor detectors, 21:30704(T) (NP-tr-1552)
development of two-channel pulse-height, for photon bone-mineral measuring instrument, 25:51932 (COO-1422-98)
development of wide range 50 psec resolution digital time sorter, 21:14517
development of, state-of-art survey of, 23:41101 (EUR-4289, pp 149-70)
developments in multichannel, 25:39782
discriminator circuit for, design and performance of zero-crossover, 22:16950
discriminator for distinguishing neutrons from gamma rays in detectors by, description of tunnel diode pulse shape, 21:17938
discriminator for multichannel, design of high-stability diode pulse-height, 22:14883
discriminator for, with integrated circuits, design of pulse amplifier and differential, 22:19201
electronic filters for multichannel, description of, 21:45449 (BNL-11794)
energy resolution of, effects of high counting rates on, 21:20004
errors in determinations of peak parameters due to channel width fluctuations in, 24:14295
feedback stabilization in multichannel, 21:30091(R) (ANL-7210)
gain control system for multichannel, used in high-resolution spectroscopy, design of automatic, 23:43585
gain stabilization for high-rate, computer-controlled pulse amplifier for, 24:4518
gain stabilization for spectrum with no reference peaks, method for, 25:18867
gain-control system for multichannel, for photomultiplier, design of automatic, 22:2463
gamma spectra data from multichannel, methods for analysis of, 23:7775 (KFK-730)
interface for binary, computer, 24:33964
interfaces for PDP-8 computer, 25:1739(R) (NYO-73-293)
leveling out system for multichannel, with combination ferrite memory and magnetic tape recording systems, 22:36144
linearity measurements of, sliding pulse generator for differential, 24:23036 (INR-1154)
linearity of multichannel, ramp generators for measuring, 23:22119
linearity of, design of shaped pulse generator for testing differential, 23:16211
linearity of, design of sliding pulse generator for testing, 21:32551
linearity of, measurements of differential, 22:12706
magnetic tape recorder for multichannel, use of IBM-compatible incremental, 21:26290
memory device for multichannel, design of ferrite-core, 22:33689 (ZfK-121, pp 1-133)
memory space in, efficient use of, 21:20009
memory system for, satellite-borne magnetic core, 24:39395
modification of multichannel Laben A51, for high resolution multiparameter analysis, 21:10710
modification of multichannel, for automatic data folding in Moessbauer experiments, 22:405
modification of multiparameter, for resonance neutron capture studies, 23:17103(R) (ANL-7481)
operation and use of multichannel, in biomedical studies, 23:20050
operation and uses of VAS 4096 multichannel, 25:18674
operation of multichannel, for half-life measurements, 24:48281
operation of PDP 7 digital computers for use as 150,000 channel, 23:38380
output data strip printer for two-dimensional, automatic conversion to page printer, 21:17916 (TID-23746)
outputs for stationary and mobile, design computer-compatible, 22:36136
outputs from mobile and stationary, computer-compatible, 22:33681 (AD-665608)
parity checking of three-dimensional multichannel, device for, 21:6331 (IA-1082, pp 295-309)
peak mean-value position calculator for pulse-height, 25:49057
performance for dual-channel subtract scintillation scanning system, 22:49402
performance for pulse counting, errors from pulse superposition in, 21:8644
performance in radiometric thickness gage, effect of cesium and sodium iodide crystals on, 21:4723
performance in reactor period—power calculation units, 21:13953 (CEA-R-3026)
performance of 1600 channel, for use with gamma camera for organ scanning in man, 25:6723
performance of AI-256, for multidimensional analysis, 24:27362
performance of commercially available multichannel, 21:22197 (RA-20)
performance of computerized, for geochemical analysis, 21:36109
performance of LSU-5K, for well logging determinations, 24:2523
performance of multichannel, effects of dead time on, 21:17930
performance of multichannel, for determining yields in photonuclear reactions, 23:16199
performance of multichannel, in reactor noise measurements using boron trifluoride counters, 21:8059
performance of multichannel, with digital address and analog memory, 22:47405 (UUIP-596)
performance of one-way automatic amplitude, 21:17919
performance of space-charge saturation type, n-γ discriminators, effects of last dynode capacity on, 21:8652
performance of transistorized 256-channel, for isotope spectra analysis, 22:2411
performance of, window width—amplifier gain ratio for optimum, 22:6627
performance test data of, computer program for analysis of, 21:28306 (ORNL-TM-1865)
phase adjustment device for multichannel, design and performance of, 23:43643
properties of commercially available multichannel, 21:22197 (RA-20)
pulse analysis for gamma spectra in, variance—covariance assumptions in, 24:5920
pulse converter for multichannel, use of binary-to-decimal, 25:35067
pulse height store for, design of controlled analog, 25:401
pulse pile-up inspector for, design and performance of, 24:23010 (JINR-P13-4979)
pulse pile-up monitor for, 25:42216
pulse pile-up rejection and correction systems for, development of, 22:16942
pulse pile-up rejection systems for, development of, 21:27574(R) (NYO-GEN-72-132)
pulse pileup rejection system for, design of, 23:7281(R) (ORNL-4280)
pulse separation in, review of methods for distorted, 24:27389
pulse stabilizer circuits for analog-to-digital converters, 21:27574(R) (NYO-GEN-72-132)
pulse-height spectra analysis by, computer program for automatic, 21:14455
pulse-rate error caused by fluctuations in channel position or width in single-channel, used in gamma spectra measurements, 23:723
pulses at input of two, from same radiation field, relation between, 23:11905
readout circuit of two-parameter multichannel, design of fast digital, 21:8654
readout system for, punched-card, 21:12719
recording system for multichannel, description of computer-based, 22:33692 (ZfK-121, pp 320-425)
recording system for multichannel, development of, 21:10693 (INR-735/VI/E)
recording system for, design of AERE 2000 series interface unit for Kennedy 1500 incremental, 23:30923(R) (RHEL/R-170)
recording system for, modification of pulse height-to-time converters for use in wide-range multi-input, 21:34532
resolution degradation at low and high counting rates, 22:28233
resolution increase to millions of channels for, pseudorandom digital transformation technique for, 23:11908
resolution of multichannel, effects of pulse pileup on, 21:36212
resolution of time, design of two-channel amplitude correction circuit for improving, 22:36141
resolution of, in presence of noise and pile-up fluctuations, method for improving, 22:28217
response of multichannel, numerical correction of nonlinear, 25:2509
sensitivity of tunnel diode voltage threshold discriminator, for difference measurements, 21:1678 (UCRL-14930-T)
signal splitting into fast and slow channels of multichannel, 21:30091(R) (ANL-7210)
spectra from data tapes of Nuclear Data and TMC multichannel, computer program for plotting, 22:10635 (RISO-M-640)
spectra from, computer method for analysis of nuclear, 21:24227
spectra storage from twenty radiation detectors in multichannel, design of memory device for, 21:32539
spectral data from, PALMUD computer program for handling one and two-dimensional, 21:12704 (BNL-10904)
spectrum stabilization system for, design of, 21:6331 (IA-1082, pp 295-309)
spectrum stabilizer for multichannel, design of pulse generator for testing digital, 22:23358 (IA-1128, pp 185-212)
spectrum stabilizer for multichannel, digital, 22:23358 (IA-1128, pp 185-212)
stability of high resolution, improving, 22:33689 (ZfK-121, pp 1-133)
stabilization of gamma spectrometer, 25:21424
stabilization of, statistics of digital stabilizers for, 22:10647
stabilization systems for, in gamma spectrometers, 23:22066
statistics of associative-memory two-parameter, 21:26294
testing and calibration of multichannel time, 23:41099 (EUR-4289, pp 119-25)
testing of multichannel, design of mercury relay pulse generator for, 21:32550
testing of multichannel, design of precision computer-controlled pulse generators for, 21:36465
testing of multichannel, design of sliding pulse generator for, 22:6677 (ORNL-TM-1989)
testing of, design of stable linear pulse generator for, 21:34516 (ORNL-4091, pp 15-21)
testing of, engineering drawings of random pulse generator for, 22:30924
testing of, pseudorandom pulse generator for, 25:18853
testing of, use of digital-to-analog converter for, 21:6339
theory for spectral analysis, 25:23906 (CEA-CONF-1640)
time analyzer for multicycle experiments with exponential decay for multichannel, optimization of parameters for, 25:10900
time digitizer for multi-channel, description and operation of, 21:26293
time expander for multichannel, design of, 21:16256(P)
time scanning methods for single-channel pulse amplitude selector, 24:7668 (AERE-M-2249)
time-to-amplitude converter for multichannel, used for multiscaling with channel widths less than 1 μsec, 24:528
timing adjustment for radiation detectors, 24:25279
timing circuits for 512-channel, design of transistorized unit for automatic channel stepping, 22:21385 (PINSTECH/PHY-11)
timing circuits for, leading-edge pickoff, 23:11783
use as recording system for wire spark chamber, 24:19217
use for detection for radiation protection, 22:31096
use for measuring Moessbauer spectra, continuous smoothing method for, 23:7905
use for nondestructive testing of FFTF fuels, 22:1854 (BNWL-SA-1388, pp 9.1-6)
use for radioisotope decay rate measurements, statistical error in, 21:1593
use in Aerial Radiological Measuring System, 22:305 (CEX-59.4(Pt.4))
use in computer controlled bistabilized 4096-channel semiconductor detector system, 21:3279
use in data processing system for satellite-borne scintillation detectors, 21:32470
use in display system for scintillation detectors, 22:2386(P)
use in fast Moessbauer data-acquisition system, 22:2397 (ORNL-IIC-10(Vol.1), pp 142-56)
use in pulse neutron measurements, development of exponential pulse generator for standardization of, 21:19994 (UCRL-14545)
use of 400-channel, for analysis of radioactive contaminants in air, 21:10470
use of 4096 channel, for computer input, 21:32546
use of analog-to-digital converters with on-line computers, circuits for, 21:27574(R) (NYO-GEN-72-132)
use of multichannel, and Anger scintillation camera with xenon-135 for study of human lung physiology, 22:31120
use of multichannel, for analysis of gamma—gamma, particle—gamma, and particle—particle coincidences, 22:14764
use of multichannel, for measuring time distribution of radioactive decay, 22:49162
use of multichannel, in multiscaling mode, for electron beam experiments employing retarding potential difference technique, 23:31582
use of multichannel, with piezoelectric crystal microphones as data handling system for acoustic spark chamber, 21:39217
use of single-channel, for spectral measurements of gamma sources, 22:404
use of TMC 400-channel, in Thor reactor noise analysis, 21:30200
use of two-dimensional pulse-height analysis in nuclear physics, 21:12626 (BNL-10864)
use of, with electron microprobe for chemical analyses, 21:15835(R) (UCID-15066)
use with constant acceleration Moessbauer spectrometer, 21:28227
use with electronic desk calculator for spectrum integration, 21:16247
use with scintillation gamma spectrometers, pulse amplification stabilization during, 21:22145
use with two PDP-8 computer for nuclear experiments requiring real time preanalysis and concurrent data analysis, 23:47894
uses in association with medical applications of radioisotopes, 22:19216
uses in determination of radioisotope distribution in organs and tissues, 21:6546
uses of multichannel, 21:39295

PULSE COLUMNS
air pulser system for, design and equations of, 21:45225
air-pulsing methods for, 25:2383 (AAEC/TM-547)
design and operation of, for Purex Process, 21:1418 (ISO-SA-6)
development and hydrodynamic function of, for processing enriched uranium-base fuels, 24:11653 (CEA-N-1148, pp 183-271)
development and hydrodynamic function of, for processing enriched uranium-base fuels, 24:22723(T) (ANL-Trans-799)
efficiency and loading in fuel reprocessing, 23:38040
efficiency for production of nuclear-grade uranium, 21:24082 (PEL-121(Vol.3), pp 222-33)
flooding behavior of, equation for, 21:14309
flow in, analysis of, 21:19727(R) (RLO-1053-3)
holdup and flooding in sieve-plate, 22:20996 (ORNL-TM-1229)
holdup in, effects of interfacial tension on, 21:19727(R) (RLO-1053-3)
holdup response of, model for kinetics of transient, 21:19727(R) (RLO-1053-3)
hydraulic behavior in fuel reprocessing lines, 23:17505(T) (AEC-tr-7028, pp 97-130)
mixing of dispersed phases in sieve plate, measurement and mechanism of, 21:19727(R) (RLO-1053-3)
operating conditions of, analog computer simulation of, 21:8640(R) (IDO-17211)
operation in Purex and Thorex Processes, 23:15926 (HW-84473)
operation of sieve-plate, controlled cycling, 25:13082(R) (RLO-2225-T-11-1)
performance in extraction of zirconium from zirconium oxide using tributyl phosphate, 22:10937
pulse amplitude and liquid level measurements in, 23:13824(R) (IN-1201)
pulse amplitude in air, for plutonium solvent extraction, effects of reservoir air pressure and pulse frequency on, (E/T), 25:34773 (BNWL-B-51)
reactor fuel reprocessing in, radiation stability of solvents in, 22:18865 (ORNL-4212)

- regulation of, operating with organic continuous phase in reprocessing of irradiated fuels, 23:28953(T) (ORNL-tr-2146)
- solvent extraction in, theory of, 23:40610 (CEA-N-1044, pp 331-80)

PULSE CONVERTERS

- amplifier for time-to-amplitude, design of linear, 21: 16103 (CLOR-60/D)
- background in time spectra of time-to-amplitude, reduction of, 23:7903
- calibration and performance of analog-to-digital, 23: 24426 (IN-1218, pp 181-316)
- calibration of time-to-amplitude, 22:14888
- calibration of time-to-amplitude, 21:28317
- calibration of time-to-amplitude, rf oscillator system for, 24:9720
- channel profiles of analog-to-digital, distortions produced by quantization in, 22:406
- channel width of successive approximation analog-to-digital, mathematical study of, 24:36668
- circuit for analog-to-digital, design of analog input delay, 22:43174(P)
- circuit for analog-to-digital, for pulse-height analysis, time derandomizer, 24:4520
- circuit for pulse-height compensation for time- to-amplitude, 23:26619
- circuit for reduction of differential nonlinearity in amplitude, 25:21472
- circuits for auto-equalizing, for improved linearity and speed, 25:44668 (RT/EL-(69)7, Paper 9)
- circuits for reduction of pile-up effects in time-to-amplitude, 21:6279
- circuits for time-to-amplitude, amplitude compensation, 22:16956
- count-loss corrections for TMC time, with TMC Model 211 logic, 22:16954
- description of analog-to-digital, 22:38181
- description of differential time-to-amplitude, for scintillation detection system, 22:19208
- description of high-speed analog-to-digital, for nuclear measurements, 22:43181
- description of time-to-amplitude, for multichannel analyzers, 22:33689 (ZfK-121, pp 1-133)
- design and performance of 256-channel time-to-amplitude, 22:33689 (ZfK-121, pp 1-133)
- design and performance of amplitude-to-time, for equivalent clock rate in GHz range, 23:751
- design and performance of analog-to-digital, for multichannel analyzers, 21:26269 (INR-769/III/E)
- design and performance of analog-to-digital, for mass spectrometers, 23:740
- design and performance of current-to-frequency, for photomultiplier for thermoluminescence reader, 24: 39399
- design and performance of fast coincidence dual-range time-to-amplitude, 24:16918 (NYO-3661-27)
- design and performance of fast high-precision analog-to-digital, for pulse spectrometry, 23:22061
- design and performance of fast high-precision analog-to-digital, 24:46546
- design and performance of log n-period, for monitoring neutron flux levels in nuclear reactors, 21:12723
- design and performance of pulse count, utilizing multiplication circuit with factors variable from 1.000 to 5.000, 23:50206 (GEPP-68)
- design and performance of time-of-flight, for use with up to 12 radiation detectors and PDP-8 computer, 22: 14811
- design and performance of time-to-amplitude, 25:21473
- design and performance of time-to-amplitude, 25:42213
- design and performance of time-to-amplitude, for nanosecond range, 25:18846
- design and performance of time-to-amplitude, for nanosecond range, 25:29341
- design and performance of time-to-amplitude, for studying meson(μ) decay asymmetry, 23:11904
- design and performance of time-to-pulse height, 25: 51947
- design and performance of time-to-pulse height, for p-i-n semiconductor detectors, 24:46465 (CEA-N-1334)
- design and performance of time-to-pulse height, with error compensation for lithium-drifted germanium detectors, 25:48974
- design and performance of transistorized nanosecond, 22:398
- design and performance of transistorized time-to-amplitude, for measurement of decay modes of mesons, 24:2524
- design and performance of ultra-linear digital-to-analog, 24:7687 (COO-1195-174)
- design and performance of ultralinear 16-bit digital-to-analog, 25:35053
- design and performance of wide-range time-to-amplitude, using transistors in avalanche switching mode, 21: 36424 (IDO-17225)
- design for 100 ns range, (E), 22:5817(R) (NYO-GEN-72-28)
- design for multichannel pulse height analyzer, engineering drawings for, 22:25708
- design for use with ionization chambers, 22:36065
- design modification of amplitude-to-time, for use in wide-range multi-input pulse height recording system, 21: 34532
- design modification of analog-to-digital, for pulse stabilization at low coincidence count rates, 25:18871
- design modifications to TMC Model 210 Analog-to-digital, 21:39303
- design of analog-to-digital, 23:43640(P)
- design of analog-to-digital, 24:23000(P)
- design of analog-to-digital, employing recycled successive approximations, 23:41104 (EUR-4289, pp 205-10)
- design of analog-to-digital, for 8192 channel analyzer used with semiconductor detectors for measuring gamma spectra, 22:43026 (JINR-P13-3911)
- design of analog-to-digital, for grouping channels in pulse analyzers for coincidence measurements, 22:51285
- design of analog-to-digital, for improving resolution of pulse analyzers, 22:28238
- design of analog-to-digital, for microsecond signals, 25: 42220
- design of analog-to-digital, for multichannel analyzer, 23:9719(P)
- design of analog-to-digital, for PDP-7 on-line data acquisition system of Rensselaer linear accelerator, 21: 42484 (RPI-328-97, pp 144-53)
- design of analog-to-digital, for studying design characteristics of magnetostrictive spark chamber, 23: 7790 (NP-17699)
- design of analog-to-digital, using charge storage tube, 25: 6587 (JUL-695-PP)
- design of analog-to-digital, with quotient digitalization circuit for position-sensitive detectors, 23:40991 (EUR-4289, pp 217-20)
- design of binary-to-decimal or decimal-to-binary, 25: 2510
- design of differential, for nuclear level lifetime measurements by center of gravity shifting method, 23:29269
- design of digital time-to-pulse height, for measuring electroluminescent spectra from crystals, 22:51275 (AD-662627)
- design of fast analog-to-digital, 24:36551 (CEA-N-1328)
- design of fast analog-to-digital, for multichannel pulse analyzers, 23:41102 (EUR-4289, pp 179-91)
- design of fast transistorized time-to-amplitude, 24:5889 (IFA-NR-29)
- design of four-channel time-to-amplitude, 24:11882
- design of high resolution time-to-amplitude, for measuring fast decay time of scintillators, 23:2723
- design of high-resolution analog-to-digital, for multichannel analyzers, 23:11923
- design of high-resolution time-to-pulse height, 24:11881
- design of high-speed 4096-channel 12-bit analog—digital, for pulse height analysis, engineering drawings for, 22: 40456
- design of high-speed 4096-channel analog-to-digital, for pulse analyzers, 22:36152
- design of linear seven-decade current-to-frequency, for photomultiplier tubes, 24:2519 (UCRL-71766(Rev.1))
- design of linear-to-logarithmic, for particle identification, 23:14076 (CEA-CONF-1148)
- design of logarithmic amplitude, for scintillation detectors, 23:45525
- design of MOSFET current-to-frequency, for monitoring ion-chamber currents in subpicoampere-to-microampere range, 25:57894
- design of nanosecond time-to-amplitude, 23:11926
- design of nanosecond time-to-amplitude, with tunnel diodes, 22:33690 (ZfK-121, pp 134-248)
- design of normalizing analog-to-digital, for position-sensitive detectors, 23:40990 (EUR-4289, pp 211-15)
- design of on-line dead-time-free time-to-pulse height, for measurement of nuclear half-lives up to 100 sec by delayed-coincidence method, 25:42222
- design of pulse height-to-clock pulse converter for neutron dosimetry, 24:11792
- design of rise time-to-amplitude, for neutron-gamma discrimination, 23:13978 (CEA-CONF-1151)
- design of seven-bit analog-to-digital, for nanosecond pulses, 23:11912
- design of ten channel tunnel diode analog-to-digital, 21: 32505
- design of time-to-amplitude, 24:4503 (CEA-R-3897)
- design of time-to-amplitude, 21:6331 (IA-1082, pp 295-309)
- design of time-to-amplitude, 21:45345(R) (IDO-17234)
- design of time-to-amplitude, based on zero crossover timing, 23:22120
- design of time-to-amplitude, for beam deflection system of pulsed accelerator, 22:18064
- design of time-to-amplitude, for fast coincidence measurements, 25:4334
- design of time-to-amplitude, for multichannel analyzer used for multiscaling with channel widths less than 1 μsec, 24:528
- design of time-to-amplitude, for multichannel pulse analyzers, 21:34516 (ORNL-4091, pp 15-21)
- design of time-to-amplitude, for nanosecond range, 25: 49042
- design of time-to-amplitude, for operation in μsec range, 22:6682
- design of time-to-amplitude, for scintillation detectors for time-of-flight measurements, 22:38002
- design of time-to-amplitude, for semiconductor detector time measurements and coincidence measurements, 22:51225
- design of time-to-amplitude, for studying after pulsing in photomultiplier tubes, 21:39302
- design of time-to-amplitude, for subnanosecond range, 22:43166
- design of time-to-amplitude, for use with photomultiplier tubes, 22:38159
- design of time-to-amplitude, using bitripoles, 22:28234
- design of time-to-digital, 24:2527
- design of time-to-digital, based on weighted chronotron, 23:41100 (EUR-4289, pp 127-35)
- design of time-to-pulse height, for measurement of nuclear energy-level lifetimes, 24:19273
- design of time-to-pulse height, for measuring nuclear lifetimes in μs to s range, 24:29601
- design of transistorized time-to-amplitude, for positron lifetime measurements in solids, 22:16961
- design of transistorized time-to-amplitude, for use with scintillation detectors in analysis of positron lifetimes in magnetic fields, 21:10703
- design of wide-band time-to-amplitude, 23:2728
- design of wide-range rise time-to-amplitude, 25:26545 (CEA-N-1430)
- development of 20- to 100-MHz analog-to-digital, 22: 14879
- development of 256-channel analog-to-digital, 22: 37281(R) (NYO-72-191)
- development of sliding-scale analog-to-digital, with weighted averaging, 23:41121 (EUR-4289, pp 339-45)
- development of time-to-amplitude, 21:28303 (JINR-P13-3275)
- development of time-to-amplitude, for measuring nanosecond isomers, 21:8648
- development of time-to-amplitude, for measuring short time intervals, 22:16944
- development of transistorized logarithmic, (E), 21:10698
- development of very fast time-to-amplitude, using internal circuitry of oscilloscopes, 21:36448
- equalization in controlled analog-to-digital, optimum statistical, 23:41122 (EUR-4289, pp 347-8)
- errors in time-to-amplitude, calculation of, 22:33689 (ZfK-121, pp 1-133)
- gain and baseline drifts in on-line time-of-flight, digital regulation of, 22:14812
- interface for Varian 622/i computer to analog-to-digital, for nuclear spectroscopy, 25:10848 (ANL-7704)
- linearity of analog—digital, 22:12704
- linearity of analog-to-digital, method for determining differential, 22:14886
- linearity of computer-interfaced analog-to-digital, improving differential, 22:23383
- linearity of time-to-amplitude, for pulse analyzers, 21: 14494 (CONF-660221-, pp 351-5)
- linearity of time-to-amplitude, method for testing, 23: 22121
- linearity of weighted, circuit for eliminating effect of pulse stretcher on differential, 21:45481
- noise in time-to-pulse height, due to accidental coincidences, 25:10902
- nomenclature for voltage-comparing analog-to-digital, proposed, 25:57886
- packaging of analog-to-digital, 23:17840
- performance of time-to-amplitude, compensation method for increasing, 22:30915
- performance of time-to-pulse height, statistical equalization method to improve differential, 22:19209
- properties of analog—digital, 22:12705
- pulse compensation system for time-to-amplitude, from unpaired input signals, 24:14362
- pulse height compensation in time-to-amplitude, 24: 9729(P)
- pulse sequence identifier for time-to-pulse height, 25: 18866
- pulse shapers for time-to-amplitude, development of transistorized fast, 21:36451
- pulses in analog-to-digital, design of weighted chronotron for measurement of time intervals between, 24:5946 (IFA-EN-11)
- readout system for analog-to-digital, 25:2511
- resolving power of time—amplitude, generator and method for testing, 25:49050
- scalers for time-to-amplitude, design of 100 MHz coding, 24:39384 (CEA-R-3971)
- specifications for JAERI modular risetime-to-height, 25: 42185 (JAERI-13605)
- speed of analog-to-digital, autoequalizing method for increasing, 22:14889
- stabilization circuit for analog-to-digital, baseline, 24: 44367
- stabilization of analog-to-digital, gain control system for, 24:33963 (UJV-2378-A)
- stabilizer for fast analog-to-digital, digital spectrum, 23: 22118
- testing of analog-to-digital, use of digital computer for automatic, 23:35567
- time scale calibration of time-to-amplitude, method for, 23:16209
- time scale calibration of time-to-pulse height, sampling oscilloscope circuit for, 24:44370
- use of analog-to-digital, in nuclear, biological, medical, and geophysical studies, 23:20058
- use of analog-to-digital, in radiation survey instruments, 21:32388
- use of binary-to-decimal, in vacuum tube multichannel pulse-height analyzers, 25:35067
- use of digital-to-analog, for testing pulse-height analyzers, 21:6339
- use of time-to-amplitude, in timing circuits of scintillation detectors used for fast nuclear lifetime measurements, 23:669
- use with pulse analyzers for measuring lifetime of μ-mesic atoms, 22:6682

PULSE DISCRIMINATORS

- charge threshold for stilbene scintillation detector, determination of minimum, 24:33883
- circuit analysis for proportional detectors, 25:8516
- circuit for fast, with trigger level proportional to signal level, 22:21376 (ORNL-4219, pp 1-3)
- circuits for absolute coincidence, timing characteristics for, 23:49582 (ANL-7410, pp 339-86)
- circuits for, analysis of cascade switching, 25:10901
- circuits for, optimum configurations of switching, 23: 41125 (EUR-4289, pp 371-3)
- description for background reduction in x-ray proportional detectors, 24:33886
- description for pulse pile-up prevention, 25:18840(P)
- description for semiconductor detector for identification of protons and alpha particles, 24:11778
- description of pulse shape, for neutron spectroscopy, 24: 16876
- description of zero crossing, for scintillation detector for neutron—gamma discrimination, 25:32255
- design and performance for background-neutron scintillation detector, 22:2425
- design and performance for cesium iodide scintillation detectors for high-energy neutron discrimination in presence of low energy gamma rays, 25:48947
- design and performance for large dynamic scale with precise time definition, 25:13320 (RI-70/13)
- design and performance for proton-recoil scintillation neutron spectrometer, 24:29548
- design and performance for recoil-proton proportional detector for neutron—gamma discrimination, 24:2477 (CEA-R-3823)

design and performance for scintillation detector for particle identification, 24:16856
design and performance of amplitude discriminator and zero crossing detector using tunnel diode, 23:7897
design and performance of constant fraction and leading edge, for scintillation detectors, 24:39262
design and performance of double delay line shape, for stilbene scintillation detectors, 21:32437
design and performance of fast leading edge, for time pickoff, 25:37693
design and performance of fast-gated, with small-time skewing, 22:335
design and performance of high speed, 25:8507
design and performance of integral, for pulse-height analysis, 25:55073 (INR-1315)
design and performance of multichannel numerical ultrafast, for extraction of signals from background noise, 25:49063
design and performance of neutron—gamma, for scintillation detectors, 23:32902(R) (RLO-1925-20)
design and performance of pulse shape, for thallium-activated cesium iodide detectors, 23:19974
design and performance of pulse shape, for thick liquid scintillation detector used in detection of low-energy mesons (K^+), 23:35459 (ISS-68/45)
design and performance of pulse shape, for use with organic scintillation detectors, 22:12577
design and performance of rise-time, for background reduction for proportional counters for low-energy gamma spectroscopy, 23:31541
design and performance of shape, for fast-neutron time-of-flight spectrometer, 22:10591
design and performance of zero-crossover time, for pulse analyzers, 22:16950
design and performance of, based on avalanche transistors, 25:18847
design and performance of, for time measurement of photomultiplier pulses, 21:12722
design for Compton suppression for semiconductor gamma spectrometers, 23:45507 (BNWL-1051(Pt.3), pp 13-17)
design for fast coincidence circuit, 25:51941
design for lithium fluoride—zinc sulfide scintillation detectors for slow neutrons, 21:36383
design for multiple wire proportional chambers, 24:29573
design for NE-213 liquid scintillation detector for gamma discrimination for neutron detection, 24:50572
design for neutron time-of-flight spectrometer using NF 213 organic scintillator, 23:7281(R) (ORNL-4280)
design for photomultiplier tubes, 22:38158
design for proton-recoil scintillation neutron spectrometer, 21:32368 (ANS-SD-2, Paper 9)
design for scintillation counter for neutron—gamma discrimination, 23:13982 (CEA-CONF-1203)
design for scintillation detector, 22:47354(P)
design for scintillation detector for neutron identification and recognition of Cherenkov events, 24:11802
design for scintillation detectors for use in OSO-4, 23:31549
design for semiconductor detectors, for alpha and proton discrimination, 24:16855
design for stilbene scintillation detectors for neutron spectroscopy, 22:28159
design of, 23:752
design of, 25:475(P)
design of AERE 2000 series variable dead time, 23:30923(R) (RHEL/R-170)
design of constant fraction of pulse height, for optimum time resolution, 22:10644
design of constant-fraction, for timing pulses from planar lithium-drifted germanium semiconductor detectors, 22:36060
design of differential, for gamma counter, engineering drawings for, 24:41661
design of differential, with integrated circuits, 22:19201
design of differential, with stable time information, 23:43630
design of fast dc coupled, 25:35045 (CEA-N-1447)
design of fast general purpose, 23:26617
design of fast leading edge tunnel-diode, 24:36667
design of fast leading-edge, for scintillation detector, 23:7745
design of fast time marking, for use with scintillation or semiconductor detectors, 23:40989 (EUR-4289, pp 137-9)
design of fast zero-crossing, for pulsed-beam time pickoff, 22:408
design of fast zero-crossing, using tunnel diode circuits, 21:43307
design of fast, for neutron time-of-flight spectrometer, 24:21002(T) (ORNL-tr-1871)
design of fast, for use in four-channel scintillation telescope, 23:45524
design of fast, with compensation of rise time and threshold for time-of-flight fast neutron spectrometer, 21:45412
design of fast, with shaping circuit having zero recovery time, 21:32544
design of general-purpose pulse shape, 23:26615
design of germanium tunnel diode, 25:15969
design of high resolution, for neutron—gamma discrimination for scintillation detector, 23:17778
design of high-stability diode pulse-height, for multichannel analyzer, 22:14883
design of highly stable high-rate, for nuclear counting experiments, 23:9797
design of integral and differential, with tunnel diodes, 22:36145
design of integrated-circuit, with 10 nsec pulse pair resolution, 24:4526
design of low-level, 23:26607(T) (LA-4119-TR)
design of modular pulse-height, for scintillation counters, 23:22035
design of nanosecond, 23:33555
design of pulse shape, for gamma background compensation in scintillation detectors used for beta detection in mixed beta—gamma fields, 23:11771
design of pulse shape, for NE213 and stilbene scintillation detectors used for gamma and neutron detection, 22:40405
design of pulse shape, for scintillation detectors, 21:41271(P)
design of pulse shape, for use with scintillation detectors, 22:6599
design of pulse shape, using single p—i—n detector, 22:36135
design of redundant-type dual pulse generator and discriminator, engineering drawings for, 22:28256
design of sensitive pulse shape, for wide range of energies, 22:6695
design of sensitive tunnel diode, 21:32504
design of small time-walk, 24:21040
design of standard solid-state, engineering drawings for, 21:36469
design of tunnel diode, for scintillation detectors, 22:38037
design of tunnel-diode shape, for phoswich-configuration scintillation detectors, 21:32438
design of tunnel-diode zero-crossing, 21:26291
design of variable dead time fast, 23:26617
design of versatile gated adjustable paralysis, for fast-slow coincidence experiments, 22:32961 (ANL-7310, pp 377-430)
design of wide-range, with low power drain for nuclear experiments on satellites, 23:45598
design of window, with integrated circuits, 22:49154
design of window, with tunnel diodes, 21:41291 (EUR-3551.e)
design of zero-crossing fast, 23:26617
design of zero-crossing pulse shape, for scintillation detectors, 23:655
design of zero-walk charge storage diode, for scintillation detectors in coincidence, 22:45293
design of, which trigger at constant fraction of pulse height, 21:45482
development for discrimination against γ rays above 150 keV, 23:15346(R) (ORO-1316-70)
development for radiation detectors, review on, 25:10815 (JUL-660-ZE)
development of fixed-fraction, for scintillation detectors, 23:17103(R) (ANL-7481)
development of high-response transistorized, 21:32501(T) (AEC-tr-6719, pp 113-14)
development of pulse-shape, for electrons and muons in photomultipliers, 22:2421
development of rise-time, for electronic collimation, 25:18749
development of transistorized nanosecond-range, for nuclear physics, 21:41306
development of velocity window, for Moessbauer spectrometers, 22:37281(R) (NYO-72-191)
hysteresis reduction in, 21:24261
operation and theory of, 25:35055
operation of liquid scintillation detector, for neutron—gamma discrimination, 24:2459
performance for gamma discrimination in proton-recoil proportional detector for neutron spectroscopy, 25:10857
performance for neutron and gamma dscrimination with stilbene and NE 213 liquid scintillation detectors, 24:48270
performance for neutron—gamma discrimination in liquid scintillation detectors, 25:8506
performance for proton-recoil neutron spectrometer, for gamma discrimination, 25:42105 (JAERI-13561)
performance for studying the effects of microwave irradiation on crayfish ganglionic discharge, 23:22139
performance of pulse shape, for scintillation detectors, 22:28119
performance with dual-phosphor scintillation detectors for monitoring α and β activity on human hands, 22:45562
specifications for JAERI modular, 25:42185 (JAERI-13605)
stabilization with operational amplifiers, 24:4522
threshold of nanosecond, digital system for measuring, 23:6287 (UCRL-18118)
time jitter due to circuit noise, 25:10808 (AERE-R-5561)
timing circuit for zero-crossover, constant fraction adapter, 25:35064
use for background reduction in x-ray proportional detectors, 22:45273 (AERE-R-5749)
use for suppressing Compton background in semiconductor detectors, 22:21308 (BNWL-SA-1515)
use in gamma rejection for proportional counters for reactor noise analysis, 22:49084
use in photomultiplier—amplifier—discriminator system for processing gamma radiation signals from scintillation detectors, 21:45368 (N-67-25871)
use of tunnel diode, in three channel proton spectrometer, 21:32432

PULSE GENERATORS (ELECTRONICS)
circuit for 15 kHz regular or 5 kHz random RC-shaped, 22:21377 (ORNL-4219, pp 4-17)
circuit for 500-A, for magnet coil for generating 5 kG fields pulsed at 1200 Hz, 22:21378 (ORNL-4219, pp 18-28)
circuit for linear ramp generator for sliding, design and operation of, 24:9715
circuit for random, at 100 Hz to 10 kHz, 22:21377 (ORNL-4219, pp 4-17)
circuits and elements of, for use in neutron generator, 21:13788
circuits for line-type, design of power scavenging de-Q'ing, 22:10663(P)
circuits for programmable solid-state, for charge-sensitive amplifiers, 25:57896
circuits for thyratron, parallel, 25:21470
current switches for plasma—metal junction harmonic, development of high-speed, 21:26309
description for fast-rise flashlamp, 22:21318 (UCRL-50176)
description for prompt curve simulation for nanosecond lifetime measurements, 22:33690 (ZfK-121, pp 134-248)
description for reactor oscillators, 22:18637(P)
description for simulating germanium detector pulses, 24:39207 (IN-1317, pp 233-381)
description for Tohoku 300-MeV electron linac, 22:22508
description of 1-MV, 25:50290
description of 100-kW rectangular, 21:353
description of digitally-controlled precision, for calibration of amplifier and pulse-height analyzer systems, 21:16243
description of double light, for simulating scintillation light flashes, 22:33690 (ZfK-121, pp 134-248)
description of random walk, for simulation of Gaussian distribution, 25:32309
description of, for use with nuclear geophysics equipment, 22:28262
design and fabrication of Markoff, 21:39288 (NP-16756)
design and operation of feedback-shift-register pseudo-random, for impulse response measurements, 23:33554 (WANL-TME-841)
design and operation of sliding, for differential linearity measurements of pulse analyzers, 24:23036 (INR-1154)
design and performance for beam pulsing of 400-keV electron Van de Graaff, 25:50577
design and performance for isotropic monogap streamer chamber, 22:33664
design and performance of, 21:30719
design and performance of 25 kV, for spark chambers, 21:39244
design and performance of 375-kV Marx, for spark chambers, 21:19933
design and performance of delay, with range from 10^{-6} to 10^{-3} sec for plasma studies, 23:50207 (INR-1059)
design and performance of high-voltage multichannel, 25:32299(T) (CERN-Trans-71-6)
design and performance of high-voltage, for use with spark chambers, 21:12662
design and performance of high-voltage, for wide-gap spark chamber, 23:26576
design and performance of low-inductance megavolt Marx, 25:30573 (EUR-4593, pp 311-17)
design and performance of nanosecond, for spark chamber, 23:26574
design and performance of rectangular pulse, for plasma production, 24:42701(P)
design and performance of solid-state double, for use as stable reference for semiconductor spectrometers, 22:40440
design and performance of square-loop flux standard, for calibrating search coil—integrator magnetometer, 22:12684 (UCRL-17639)
design and performance of, for two trains of nanosecond pulses, 21:6350
design and performance of, with variable power and duration, 25:49060
design and theory of, using superconductive tunnel junction neuristor, (E/T), 22:46076
design and use of special-purpose short, 21:45486
design for 400-channel analyzer for live time display, 24:39231
design for accelerators, 22:9753(P)
design for cavity resonators of accelerators, 21:44472 (NP-17010)
design for checking linearity of pulse height analyzers, engineering drawings for, 23:16211
design for delay-line magnets, 21:28329
design for electron linac, for high-intensity nanosecond beam pulsing, 25:14858
design for integral linearity testing of analog pulse circuits, 25:35066
design for production of dislocations in monocrystalline silver, 23:38983(R) (COO-916-15)
design for pulsing beam of 2 MeV Van de Graaff accelerator, 24:45618 (AWRE-O-29/70)
design for pulsing fast neutron generators for investigation of short-lived nuclei, 23:50221
design for simulating semiconductor detector charge pulses, 25:44738
design for spin—lattice relaxation time measurements in high resolution NMR, 24:11875
design for stabilizing nuclear spectrometer circuit, 25:8542
design for supplying 500-A current pulses for producing pulsed magnetic fields, 22:28237
design for testing digital spectrum stabilizers of multichannel analyzers, 22:23358 (IA-1128, pp 185-212)
design for triggering gas-filled spark chambers, 22:19159(P)
design for use as stable reference source for semiconductor spectrometers, 23:26559 (KFK-558)
design for use with spark chamber, 22:8384 (JINR-P13-3570)
design for use with time analyzer in inelastic scattering of slow neutrons, 21:6295
design for Van de Graaff accelerator for beam pulsing at 10 nanoseconds, 25:7779
design for variable frequency oscillator for spectrum analyzer, 23:43639(P)
design for Varian V-7700 electron linear accelerator, for use in pulsed radiolysis, 23:44780
design of 10-kHz, for bubble chamber time control, 23:22092
design of 15 kV, with spark gap, 21:36425 (IPP-4/43)
design of 20-kW peak power, for supplying pulses to displacement gage transducers, 22:38152 (UCRL-71084)
design of 5- to 138-MHz, with variable pulse duration, 22:6686
design of circuit for, used with spin-echo spectrometers, 21:45468

design of Cockcroft—Walton avalanche, for triggering oscilloscope—camera recorder, 23:45581 (LA-4182)
design of constant current, for shock wave Manganin pressure transducers, 21:17914 (SC-TM-67-30)
design of current-mode trigger, for coincidence circuits, 22:40497
design of delay-gate, without recovery time, 21:45461
design of digital pseudorandom, with uniform amplitude distribution, 22:19205
design of digital rf burst, for NMR relaxation measurements, 25:8575
design of dual, engineering drawings for, 22:14898
design of exponential, for simulating pulse rates from ionization chamber reactor monitoring system, 21:39213
design of fast high-current, which produces pulses up to 500 V and 1000 A, 21:26282
design of fast high-voltage, with spark gaps, 23:47888
design of fast mercury switch, for pulsing accelerators, 25:53443
design of fast random, based on pile-up statistics of electrons emitted by photomultiplier cathode excited by grid controlled tuning indicator, 23:22122
design of fast, using avalanche transistors, 23:47889
design of fast, using electron beam for arc breakdown of coaxial conductors, 22:4549(P)
design of general purpose, engineering drawings for, 23:16212
design of gigawatt lumped-element line, 22:42935 (LRP-37/68)
design of high-current, for spark chambers, 23:24463(T) (SLAC-Trans-94)
design of high-power, using pnpn devices, 22:36150
design of high-repetition-rate, using hydrogen thyratrons, 21:34534
design of high-speed gated, 23:50112 (CEA-CONF-1339)
design of high-voltage ceramic thyratron, for wire spark chamber, 23:2657
design of high-voltage nanosecond, for use with streamer spark chambers, 23:31554
design of high-voltage, for deflector plates for beam injection system for ITEP 7-GeV synchrotron, 25:9932
design of high-voltage, for deflector plates for beam injection system for ITEP 7-GeV synchrotron, 25:9931
design of high-voltage, for pulsed accelerators, 21:25373
design of high-voltage, for spark chamber with gaps of 1.0 to 15 cm, 22:38082
design of high-voltage, for spark chambers, 23:29223(P)
design of high-voltage, for streamer spark chambers, 21:45401
design of LASL Model-10 precision delay trigger, 23:2694 (LA-3964)
design of linear nine-step staircase, 23:38350 (LA-4178)
design of low-impedance nanosecond group, 21:26289
design of lumped element line generator for producing high power sinusoidal pulses, 23:17839
design of lumped-element line generator for low-rf oscillations in plasma, 25:36229
design of magnetic pulser for pam multiplexed instrumentation powered and timed from 10 kHz 3 phase ac, 23:28668 (UCRL-71574)
design of megavolt, for accelerator tubes, 25:56583 (IAE-1980)
design of multipurpose, for calibration of nuclear spectroscopic instruments, 24:14359
design of nanosecond rise time, high power, variable delay double, for measuring decay of electron—hole plasma, 22:8415
design of nanosecond square-wave, with amplitudes to 500 kV, 23:33558
design of nanosecond, for adjusting calculating and coincidence circuits, 21:6342
design of nanosecond, for linac injector cathode, 21:44473 (UCID-15156)
design of nanosecond, for pulsing charged-particle beams, 21:46636(P)
design of needle, for generating pulses with constant amplitudes at 0 to 100 V, 21:36459
design of portable, for testing nuclear pulse counting equipment, 21:3349
design of precision computer-controlled, for testing multichannel analyzers, 21:36465
design of precision nanosecond, 21:17926
design of precision, for simulation of radiation detector pulses, 23:21957
design of programmed digital integrated circuit, for transient NMR spectrometry, 24:16931
design of radioresistant magnetic, using saturable reactor and transmission line shaping circuit, 24:14381 (UCRL-71574(Rev.1))
design of ramp, for measuring differential linearity of multichannel pulse-height analyzers, 23:22119
design of random, 21:45345(R) (IDO-17234)
design of random number, consisting of Geiger—Mueller detectors and radioactive sources, 23:47890
design of random, for testing nuclear instruments, engineering drawings for, 22:30924
design of random, ORNL Model Q-3029A-1, 22:12683 (ORNL-TM-1909)
design of random, with uniform amplitude distribution, 24:44368
design of redundant-type dual pulse generator and discriminator, engineering drawings for, 22:28256
design of reference, for stabilization of semiconductor-detector pulse-height digitizing systems, 21:27574(R) (NYO-GEN-72-132)
design of relaxation oscillator, based on avalanche transistors, 25:29405
design of rf, for producing 1.8 kG rotating magnetic field, 22:28225
design of sawtooth current, for studying superconductivity, 25:8580
design of sliding, for testing linearity of multichannel analyzers, engineering drawings for, 21:32551
design of sliding, for testing multichannel analyzers, 22:6677 (ORNL-TM-1989)
design of solid-state tone-burst, for use in ultrasonic inspection, 21:45345(R) (IDO-17234)
design of square-loop flux standard for calibrating search coil and integrator fluxmeters, 22:10652
design of stable linear, for evaluation of multichannel analyzers, engineering drawings for, 21:32550
design of stable linear, for testing pulse analyzers, 21:34516 (ORNL-4091, pp 15-21)
design of strip line, for spark chamber, 24:29570
design of tail pulser, engineering drawings for, 21:17944
design of thyristor high-voltage, for triggering spark chambers, 25:21427
design of transistorized, for 25 kV pulses, 22:36139
design of transistorized, three-channel, nanosecond, 22:36148
design of wide range microcircuit, 21:36466
design using avalanche transistors, 21:45470
design using mercury relay, 25:2513
design with exponentially increasing frequency, 23:33557
design with integrated circuits, 22:38175
development, 23:16090 (ORNL-4335, pp 2-11)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development of 600 kV 1.5 kJ Marx, for Nereus accelerator, 25:41141 (SC-DR-710216)
development of digital delay, with 1 μsec to 300 msec width in 100 μsec steps, 22:51279(R) (RISO-M-729)
development of explosive-excited acousto-electric, 21:17912 (SC-TM-65-91)
development of exponential, for standardization of electronic equipment used in pulsed neutron measurements, 21:19994 (UCRL-14545)
development of high-current, for studying electric properties of superconductors, 25:10899
development of programmed, for NMR measurements, 25:41833(R) (IA-1218)
development of pseudorandom, for uniform amplitude distributions with discrete lines for testing pulse-height analyzers, 25:18853
developments at C.E.A, 21:34544
driver system for, for use in ASTRON linear accelerator, 21:10519
efficiency limit of resonance charging of pulse-forming network in, for accelerator power supply, 25:12333
electric behavior of chemical-explosive MHD, in plasma physics experiments, (E/T), 23:32207 (CEA-R-3714)
fabrication and operation principles of high-voltage, 22:36147
magnetic flux displacer for, with superconducting multipole magnets, (E), 23:29276
operation of inductive high-current, for plasma physics experiments, 21:30570 (BMwF-FBK-67-35)
operation of linac power, 25:31066
performance of high-voltage, using avalanche transistors, 21:28318
performance of magnetohydrodynamic, with superconducting magnetic system, 22:17441
performance of mercury-relay, for measuring amplifier nonlinearity, 23:21985
pulse shaping for high-power nanosecond thyratron, 24:14344 (CONF-680520-, pp 41-6)
stability of time base, improvements in, 21:24260
stabilization of high-frequency, control circuit for, 22:9724(T) (ANL-Trans-535)
switch for, use of laser for triggering spark gap, 22:12682 (NPA/Int.-65-31)
switches for double, analysis of nanosecond, 23:26606 (JUL-549-ZE)
trigatrons for high-current, review of, 22:47429
use of cascade, for 3-MeV electron accelerator, 21:29689
use of externally-triggered, with associated time-coincident logic pulse for testing nuclear instruments, 22:23364
use of linear sawtooth, for electrostatic scanning of electron and proton beams, 21:7603
use of transitorized standard, as reference for stabilization systems of spectrometers, 21:24247 (JINR-P13-3246)
use of, for simulation of reactor operation, 21:12209(P)
wave generation by, optical method for sawtooth, 21:26303

PULSE GENERATORS (HYDRAULICS)
circuits for HICUP, design of charging choke, 23:28650 (AWRE-O-7/69)

PULSE GENERATORS (PNEUMATICS)
design and equations of, for use with pulse column, 21:45225
design for calibration and testing of transducers, 21:35819 (SCL-DR-67-48)
operating experience of automatic blowback systems for sintered-metal filters in fluidized beds, 22:25564 (ANL-7392)
performance for pulsed extraction columns, analysis of, 25:34773 (BNWL-B-51)
performance in compacting sol-gel uranium dioxide, 25:58364

PULSE INTEGRATORS
description of MOSFET, for radiation dosimetry, 22:23367
description of MTI 10, 23:726
description of numerical analog, 23:726
design and operation of IC, 24:11886
design and performance of fast dc, 22:45361
design and performance of gated, for semiconductor detectors, 24:36573
design for G—M or proportional counter, 23:2678(P)
design for multichannel pulse height analyzer with visual readout, 23:17849
design for nanosecond pulses, 25:32213 (JINR-P13-5742)
design for scintillation detector, 25:37587(P)
design of digital amplitude, for use with proportional counter for measurement of fast neutron dose to tissues, 21:1595
design of linear fast-gated dc, 23:22117
design of logarithmic, for use in radiometric gages, 21:19858
design of low-impedance passive, for fast high-voltage pulses, 24:5958
design of nanosecond, for photomultiplier pulse-height analysis, 22:4519
design of pulse height-to-clock pulse converter for neutron dosimetry, 24:11792
design of solid-state dc, 21:4730 (ORNL-P-2639)
design of time-force, for use with biological centrifuges, engineering drawings for, 21:24153
design of two-channel gated, for nuclear magnetic resonance studies, 21:45480
development using storage counters with MOSFET transistors for radiation dosimetry, 23:14081(T) (NSJ-tr-140)
fluctuations in, spectral density function method for analysis of, 23:41160
noise of gated, time-domain method for calculating, 22:10642
optimum time constant for, for continuous materials testing equipment, 22:10526
performance of automatic energy, 21:17919
performance of logarithmic, 21:45453 (CNEA-181)
reactor noise analyses using, plutonium fueled fast, 22:32961 (ANL-7310, pp 377-430)
response of DDP-24 on-line computer, 22:32961 (ANL-7310, pp 377-430)
stabilization of multichannel, for improving sensitivity of EPR and NMR spectrometers, 21:16242
use for controlling magnetic field in beta spectrometer, 21:45409
use with radiation detector for monitoring reactor period, 22:10091(P)
use with radiation detectors for monitoring reactor period, 22:7934(P)

PULSE SHAPERS
analysis using lumped-element transfer functions, 24:39397
circuit design for pulse stretching, 22:4552(P)
circuitry for, high-accuracy, 25:44667 (RT/EL-(69)7, Paper 8)
circuits for compensation of pulse spread for improved time resolution, 25:18639 (IFVE-SEF-69-44)
circuits for fixed-discrimination-level and constant-fraction-of-pulse height, with subnanosecond outputs for nuclear physics, 25:57786
circuits for time, optimum configuration of switching, 23:41125 (EUR-4289, pp 371-3)
description, 23:38252
description of, with zero recovery time, 21:6338
design and operation of reconductible, 22:49164
design and performance for photomultipliers, 24:2514 (CERN-69-26)
design and performance for scintillation detectors, 25:29347
design and performance of nanosecond pulse stretcher, 21:32542
design and performance of pulse stretcher, 23:45591
design and use in decade counter with 500-Mc resolution, 22:2464
design for coincidence circuits using scintillation detectors, 23:31537
design for fast beam extraction magnet for synchrotrons, 25:22927
design for fast coincidence circuit, 25:51941
design for fission chamber, 21:22165
design for low-noise current-sensitive preamplifier, 23:21994
design for measuring fission-fragment mass distributions, 22:32664
design for photomultiplier tube with independent regulation of output pulse duration and dead time, 25:29342
design for photomultiplier tubes, 22:28121
design for semiconductor detectors, using switched time constants and gated integrators, 23:22071
design for slowly rising pulses from thick silicon detectors, 23:43536
design for video channel of television system for measurement of spark chamber particle tracks, 25:48998
design of compensated high-speed, for Cherenkov and scintillation detectors, 25:48999
design of directly-coupled wideband delay-line bridge with high gain-stability, 23:21939 (ORNL-TM-2323)
design of double-channel FEU, 25:32212 (JINR-P13-5689)
design of highly stable, for semiconductor detectors, 23:21984
design of low-noise double delay line, for semiconductor detectors, 25:29366
design of medium-fast pulse stretchers, 21:28323
design of nanosecond, for scintillation detectors, 22:6583
design of pulse shaping variable gain amplifiers for high-resolution spectroscopy, 22:14842
design of pulse stretcher, for semiconductor spectrometers, 22:43095
design of pulse stretchers, for use in high-resolution nuclear spectrometry, 23:38375
design of pulse stretchers, for use with proportional counters, 24:44376(P)
design of rise-time, for proportional neutron spectrometers, 21:36362
design of saturated transistor, for pulse stretching, 22:409
design of time-dependent filter, for nuclear spectrometers, 22:45325
design theory of optimum, 23:41094 (EUR-4289, pp 43-6)

- design with alternative symmetric and asymmetric input and output configurations of, for scintillation detectors, 23:40986 (EUR-4289, pp 93-4)
- design with zero regeneration time for elimination of pulse pile-up, 25:8545 (JINR-P13-5377)
- development for high-power nanosecond thyratron pulse generators, 24:14344 (CONF-680520-, pp 41-6)
- development of digital pulse divider, for position-sensitive semiconductor detectors, 23:1929(R) (COO-1265-67)
- development of thermal radiation, 21:339 (AD-636265)
- development of transistorized fast, for time-to-amplitude converters, 21:36451
- effect of pulse stretchers, on differential linearity of weighted pulse converters, circuit for eliminating, 21:45481
- feedback loops in pulse stretchers, analysis of nonlinear, 23:41103 (EUR-4289, pp 193-203)
- pulse attenuation by, proportional detector, 25:18700
- pulse attenuation with equal integrating and differentiating time constants, calculations for proportional counters of, 23:43523
- pulse attenuation with equal integrating and differentiating time constants, calculations for proportional counters, 23:43524
- signal-to-noise ratio optimization in semiconductor spectrometer, in presence of noise and pileup, (T), 23:21990
- trigger circuit for scintillation detector, 24:33868 (JINR-P13-5065)
- use in processing detector pulses at very high count rates for precision pulse-height analysis, 21:32503

Pulse Stretchers
- see Pulse Shapers

Pulsed Fast Research Reactor (Brookhaven)
- see Reactors, Research

PULSEJET ENGINES
- see also Ramjet Engines

PULSES
- analysis of random signals, quantization, sampling frequency, and dispersion with correlation measurements in, 23:9792 (RCN-98, pp 101-30)
- compression of, optical analogy of, 24:13721(T) (UCRL-Trans-1404)
- delay measurements in nanosecond range, methods for precision, 23:16209
- measurement of high voltage, system using electro-optic Kerr effect for, 24:19262 (SC-DC-70-4747)
- production of magnetic, for production of controlled deformation in monocrystalline silver, 23:38983(R) (COO-916-15)
- propagation in dilute resonant media with anomalous dispersion, signal velocity definition in, (E/T), 24:29121 (IS-T-373)
- propagation model of compressional, in solid half-spaces, 21:36178 (NVO-1163-98)
- propagation of compressional, calculation using RATS code, 21:36179 (NVO-1163-105)
- synchronization of random, with 100 MHz clock signals, 24:11884
- waveform measurements of exponentially decaying, phase-plane method for, 23:35569

PULSTAR (AMF-Atomics)
- see Reactors, Research

PUMICE
- age of, argon-39/-40 method for estimation of, 24:27228
- analysis of marine, for trace elements by neutron, photon, and proton activation, 25:31873
- effectiveness for polonium-210 removal from human skin, 22:43333
- plutonium-239 abundance in, 23:2411(T) (AEC-tr-6968)
- plutonium-239 abundance in, 22:25516
- surface areas of, from underground nuclear explosions, volumetric, gas-adsorption measurements of, 23:31418 (NVO-1229-98)

PUMPS
- see also Blowers
- see also Compressors
- see also Electromagnetic Pumps
- see also Pumps (Liquid Metal)
- see also Vacuum Pumps
- analysis of bleed, cold-topping, and hot-topping, for nuclear rockets, 21:12549 (N-66-39615)
- bearings for liquid hydrogen turbo-, radiation effects on, 22:8789
- bearings for reactor primary, description of water cooling system for radial, 25:37145(P)
- bearings for sodium circulation, effects of fluid film turbulence on lubrication of, (E/T), 23:11691 (NYO-3930-2)
- bearings for steam driven helium, design of water lubricated shrouded step thrust, 22:8279
- book: Centrifugal and Axial Flow Pumps. Theory, Design and Application. Second Edition, 21:26034
- case welding of large stainless-steel nuclear, electroslag, 22:2286
- check valves for PRTR cooling system, procedures for repair of casting flaws in 8 inch Type 304 stainless steel, 24:11227 (BNWL-SA-2616)
- configuration of 2000 MW(e) Molten Salt Breeder Reactor fuel salt, design parameters for optimum, 22:48652 (ORNL-4254, pp 50-87)
- configuration of boiling reactor jet, description of replaceable movable nozzles for back flow-preventing, 22:44845(P)
- configuration of jet, description of boiling water reactor ring arranged, 23:47198(P)
- construction features of Obrigheim reactor primary coolant, 23:15588
- construction of large-volume punkah, for shelter ventilation, 21:19812 (ORNL-TM-1745)
- construction of nuclear power plants, standards for, 25:46223
- description of Beznau Power Reactor, 22:42237
- description of feedwater driven dual-jet, for boiling reactor cooling system, 22:37482(P)
- description of hermetically sealed heavy water and water, 22:22784
- description of high temperature electric motor, for organic-cooled and -moderated reactors, 22:44948(P)
- description of improved reactor cooling system controlled reverse-flow jet, 23:2142(P)
- description of jet, for circulation of reactor coolant, 22:20956(P)
- description of jet, with reactor coolant flow measurement means, 23:40358(P)
- description of multi-nozzle removable reactor cooling system jet, 22:39927(P)
- description of multiple reverse nozzle jet, for boiling reactors, 23:28464(P)
- description of NERVA turbine, 22:22790 (CONF-661204-(Vol.2), pp 91.1-12)
- description of optimized rocket reactor turbine, 22:22789 (CONF-661204-(Vol.2), pp 80.1-11)
- description of pressurized water reactor detachable externally driven pressure vessel enclosed, 23:31162(P)
- description of reactor coolant, 25:37142
- description of SENA Power Reactor cooling system, 22:3858
- description of test, for irradiation facility, 22:3956(P)
- description of vertical, boiling water reactor cooling system with upward flow, 23:49560(P)
- descriptions of various reactor primary, 23:43067
- design and operating characteristics of boiler feed and condensate, for Beznau Nuclear Power Station, 23:6245
- design and operation of coolant, for nuclear power plants, 22:47263 (AECL-2713)
- design and operation of hydraulic, for hydromining of coal, improvements in, 24:22547(T) (ORNL-tr-2283)
- design and performance of cryogenic, for use in high-vacuum annealing of molybdenum and tungsten, 23:26501
- design and performance of dual liquid hydrogen turbo-, for use in Phoebus reactor hydrogen feed system, 21:43086 (CONF-671009-1)
- design and performance of water circulating, for nuclear power plants, 25:310
- design and performance of, for 250-Mgd desalting plant, 23:13910 (TID-24927)
- design and testing of low-back pressure condensate, for organic Rankine power cycles, 23:43435 (SAN-651-100)
- design characteristics of power reactor boiler feed turbine, 23:28400
- design characteristics of water circulation, power reactors, 24:9098
- design characteristics of water cooled power reactor, 24:43746
- design criteria for nuclear installation, 22:7816(R) (ORNL-TM-2057)
- design criteria for nuclear service, development program for, 25:48291(R) (ORNL-TM-3411)
- design criteria for nuclear service, development program for, 25:57092(R) (ORNL-TM-3483)
- design criteria for nuclear service, development program for, 25:34393(R) (ORNL-TM-3342)
- design criteria for nuclear-service, development program for, 25:23313(R) (ORNL-TM-3263)
- design criteria for pressurized water reactor, analysis of aseismic, (E/T), 25:10248
- design evaluation of, mechanical properties of structural materials for use in, 24:31576
- design for conversion of uranium nitrate to uranium oxide, engineering drawings for, 22:14643
- design for Delft Molten Salt Project, 21:43087 (DMSP-G-8)
- design for high temperature corrosive fluids, 23:7688(P)
- design for nuclear service, criteria for, 24:44214(R) (ORNL-4576)
- design for piping components and systems, summary of experience on, 25:4188 (TID-25553)
- design for primary and secondary cooling circuits with rotors mounted on single shaft, 24:16186(P)
- design for waste solidification facility, 23:17725 (BNWL-968)
- design of boiling reactor coolant, 21:23647
- design of boiling water reactor internal axial-mounted, 22:25014
- design of cascade, for high vacuum systems, 21:4678 (INR-740/XVII/PP)
- design of dual, 24:41589(P)
- design of electrolytic, 22:27848 (CEA-N-816, pp 359-414)
- design of feedwater driven jet, for water cooled reactors, 24:4053(P)
- design of Fermi Fast Breeder Reactor primary liquid sodium, 23:52189 (APDA-309)
- design of fused salt fuel, 24:18588 (ORNL-4449, pp 39-95)
- design of glandless, for reactors, 25:54857
- design of implantable circulatory support system, using plutonium-238-fueled Stirling cycle engine, 23:9654 (TID-24699)
- design of internal axial, for water cooled reactor cooling systems, 24:1991
- design of jet, for circulating coolant in reactor core, 23:21867(P)
- design of jet, for forced liquid circulation in reactors, 21:5667(P)
- design of jet, for reactor coolant circulation, 21:30228(P)
- design of liquid, for MHD power generator, 21:32300(P)
- design of mechanical gap transfer, 21:26138(P)
- design of metering and proportioning, for handling radioactive liquids, 23:26413
- design of metering, for use in nuclear engineering, 24:2359
- design of on—off liquid helium cryo-, for Alice device, engineering drawings for, 24:1450
- design of peripheral, for operation in incompressible flow, engineering drawings for, 21:36222
- design of power reactor, problems and requirements for standardization of, 24:18607
- design of radioisotope-powered heart, 22:10519
- design of reactor coolant, 22:30771
- design of screw-type, for transferring wastes in phosphate glass process, engineering drawings for, 25:8457
- design of spray cooling system topper, for Oyster Creek Power Reactor Unit 1, 23:49533
- design of thermally-actuated, for corrosive and high-temperature fluids, 24:22863(P)
- design parameters for sea water, 23:13418 (TID-24767)
- design parameters of boiling reactor jet, 23:33047 (APED-5460)
- design parameters of turbine, 25:37014(P)
- design problems for primary, in boiling water and pressurized water reactors, 25:57038
- design requirements for reactor, analysis of, 22:42222
- design requirements for single-fluid MSBR fuel system, 23:21452 (ORNL-4344, pp 53-108)
- design studies for Fort St. Vrain Reactor auxiliary circulating, 21:38449(R) (GA-6950)
- design, construction, and operation of centrifugal and other rotodynamic, 21:6117
- design, fabrication, and operation of demountable glass, with variable pumping speed, 22:21237 (UUIP-547)
- development and testing for use in organic Rankine cycle space power systems, 22:30768(R) (SAN-651-57)
- development and testing for use in Rankine cycle space power systems, 23:33325(R) (SAN-651-96)
- development and testing for use in Rankine power cycles, 22:45221(R) (SAN-651-65)
- development and testing of condensate, for operation in organic Rankine cycle space power system, (E), 22:25617(R) (SAN-651-49)
- development and testing of neon cycle cryogenic, for low density plasma tunnel, 22:10459
- development for coolant circulation in power reactors, review of, 23:45072
- development for NERO Reactor, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
- development for organic Rankine cycle power systems, 21:19451(R) (SAN-651-16)
- development for use in hot cell, 24:36339 (CEA-N-1241, pp 179-254)
- development for use in nuclear power industry, 25:51677
- development of canned motor, for nonorganic working fluids, 24:25199 (NASA-SP-5057, pp 35-89)
- development of condensate, for organic Rankine cycle power conversion system, 23:9613(R) (SAN-651-71)
- development of helium circulation, for Fort St. Vrain Power Reactor, 21:27670(R) (GA-7086)
- development of helium circulator for Fort St. Vrain Reactor, 21:38449(R) (GA-6950)
- development of internal axial-mounted reactor coolant, 22:25147
- development of small high speed, for Rankine cycle power conversion systems, 21:30634(R) (SAN-651-25)
- development of small high-speed, for use in Rankine cycle space power systems, 21:36236(R) (SAN-651-33)
- development of TREAT Mark 2 loop annular linear induction, description of, 23:4354
- development of turbomolecular, for electrostatic generators, 21:38011
- efficiency and performance of jet, for boiling water reactors, effects of temperature and flow rate on, 23:13931
- efficiency of condensate, for jet condenser in organic Rankine power conversion system, 23:50027(R) (SAN-651-107)
- efficiency of condensate, for organic Rankine power conversion system, effects of axial clearance on, 23:19896(R) (SAN-651-77)
- efficiency of helium cryo-, effect of hydrogen sorption and condensation on, 21:32359 (UCRL-14291)
- efficiency of ion-convection, (E/T), 23:51421
- efficiency of rocket liquid hydrogen turbo, at cryogenic temperatures, 24:16261 (N-70-12322)
- efficiency of turbo-molecular, for separation of isotopes using carbon dioxide, 21:28168 (BMwF-FBK-67-26)
- efficiency of, radiotracer methods for determination of, 23:26440 (AERE-R-5872)
- fabrication of Dodewaard Power Reactor, during 1967, 23:19397(T) (AEC-tr-7032)
- failure of HFIR pressurizer, 21:46947(R) (ORNL-TM-2017)
- failure of Merlin primary coolant, reactor behavior in, 21:14078 (JUL-407-RE)
- failure of N.S. Savannah main coolant, 22:6068
- failure of pressurized water reactor primary, characteristics of, 24:13556
- failures of Redox Process, design modifications to minimize, 23:13905 (HW-81386)
- flow characteristics for boiling water and pressurized water power reactor cooling system, 25:57039
- flow characteristics for boiling water and pressurized water power reactor cooling system, 25:57009
- flow rates from turbine discharge, bromine-82 tracer measurements of, 24:7593 (TID-25177)
- flow rates in high-head, bromine-82 tracer method for measurement of, 24:11743
- flywheels for reactor coolant, description of glandless, 25:46161(P)
- guide vanes for, description of adjustable, 25:25980(P)
- impeller for reactor coolant, description of pressure vessel-penetrating externally-driven pivotally-mounted folding-blade, 22:37609(P)
- installation of internal axial, in water cooled reactor vessels, 24:1993
- jet, description of boiling reactor pressure vessel contained multiple, 23:23903(P)
- lubrication of, evaluation of silicone for, 22:11104
- maintenance and operation of liquid sodium, in LMFBR components test loop, 25:42804(R) (LMEC-71-1)
- maintenance history of EFFBR primary sodium, 23:52189 (APDA-309)

maintenance of internal axial, in water cooled reactor vessels, 24:1993
maintenance of water cooled reactor 250 and 550 hp glandless, 24:28870
maintenance requirements for power reactor, 25:53969
manufacturing and inspection of four-piece cases for Rolamite-type, 23:19615 (SC-DR-69-12)
motors for circulating raw water, development of relays for protection of, 23:31449 (DUN-5767)
motors for reactor coolant, performance of ac and dc, 24:36468
motors for, evaluation of PEC Fast Test Reactor, 22:53444
operating characteristics of BN-350 reactor liquid sodium circulating, 23:52431(T) (JPRS-48330, pp 269-92)
operating characteristics of LOFT centrifugal primary, analysis of, 23:4272(R) (IDO-17264)
operating history of EFFBR primary sodium, 23:52189 (APDA-309)
operation of HIFAR cooling system, procedures for, 24:2011 (AAEC/M-16)
operation of MSRE fuel circulation, 24:18677 (ORNL-4449, pp 1-38)
operation of water, in Kiel Municipal Water Works, 21:1495
operation performance of jet, analysis of optimum water tunnel, 22:25203 (AAEC/TM-410)
packings for, standard for coil and ring braided asbestos, 25:43012 (RDT-M-11-2-T)
performance and testing of, for operation in organic Rankine cycle space power system, (E), 22:10506(R) (SAN-651-43)
performance characteristics of primary coolant, for pressurized water reactors, 25:20717(T) (JPRS-52384)
performance in Elk River Reactor decay heat system, 22:18420(R) (NUS-428)
performance in sludge aeration operation, evaluation of, 25:54903
performance limits for boiling water reactor jet, optimum, 25:57037
performance of 3000-psi piston, for use in controlling underground critical assemblies, 21:8505
performance of boiling reactor jet, analysis of steady state, transient, and accident response, 23:33047 (APED-5460)
performance of condensing injector jet, for liquid metal MHD power cycle, 23:11686 (ANL-7443)
performance of HWOCR coolant, 21:38432(R) (AI-CE-4)
performance of internal axial, during normal and transient water cooled reactor operation, 24:1992
performance of internal axial, in boiling water reactor cooling systems, 24:1990
performance of large size visco seal, in turbulence, 23:33295 (ORNL-TM-2442)
performance of Medium Power Reactor Experiment jet, analysis of, 22:24972 (ORNL-3745)
performance of modified NERVA turbo-, for liquid hydrogen, 23:16016 (RN-S-428)
performance of radial electric field and Penning, to study secondary emission in vacuum below 10^{-10} torr, 22:16838
performance of screw, in laminar flow, (T), 22:8275
performance of turbomolecular, in ultrahigh vacuum system for coating large objects with superconducting materials, 24:16826
performance of water cooled reactor 250 and 550 hp glandless, 24:28870
performance of, in air movement within shelters, 21:6494(R) (ORNL-TM-1531(Pt.1))
performance requirements of liquid metal cooled and water cooled reactors, 24:29008
performance with MHD converter, self-exciting, 21:20809
placement of primary, relation to intermediate exchanger, 22:8251 (DRP/ML/FAR R-168)
power failure in plate type research reactor coolant, calculation of inversion transient from, 23:47245 (CNM-R-2(Vol.2), pp 709-25)
power sources for artificial heart, development of radioisotope, 25:39665
production of centrifugal, development of Canadian facilities for, 25:57608 (70-CNA-658)
relay circuits associated with HIFAR heavy water, operation manual for, 22:22797 (AAEC/M-13)
reliability and safety of electromagnetic and electromechanical, for use in reactors, 21:26031
reliability of power reactor, 25:53969
removal of centrifugal coolant circulating, from reactor pressure vessel, 21:30311(P)
repair of recirculating, for Big Rock Point Power Reactor, safety procedure for, 21:35620
seals and shafts for reactor coolant, development of, 21:31968
seals for EGCR coolant, design of, 21:7959
seals for high-pressure nuclear power plant, design of, 25:2392
seals for large, design and performance of visco, 23:33295 (ORNL-TM-2442)
seals for reactor primary, description of water cooling system for shaft, 25:37145(P)
seismic analysis of power reactor, (T), 24:13545
selection and use of glandless, for conventional and nuclear power stations, 25:32121
shaft seal development for reactor-coolant, 21:17432(R) (AECL-2549)
shaft seal failure in Big Rock Point reactor coolant-circulation, 22:24991
shaft seals for high pressure, evaluation of materials for, 21:10498 (AECL-2828)
shaft seals for, method for isolation from circulating medium for inspection of, 21:39104(P)
standard for vertical shaft-sealed, motor-driven, single-stage centrifugal, 25:54831 (RDT-E-3-3-T)
standards for use in cooling systems of water cooled power reactors, ASME Code, 24:43606 (NP-18352)
standards for water cooled reactors, 25:34345
stress analysis in Bingham, for use in LOFT program, 21:22066 (I-A-2412-4-1)
stress standards development for use in reactors, Sept. to Oct. 1969, 24:11214(R) (ORNL-TM-2777)
suppliers of power reactor, European, 23:5984
support systems for pressurized water reactor coolant, design of, 24:45846
test stand for Molten Salt Breeder Experiment salt, design parameters and operation procedures for, 24:5522 (ORNL-TM-2780)
testing of centrifugal, standards for, 25:32111
testing of EFFBR primary sodium, evaluation of mechanical and hydraulic performance during preoperational, 23:52189 (APDA-309)
testing of gas jet, for helium circulation in Pegase reactor loop, 25:48299 (CEA-R-4143)
testing of internal axial, for water cooled reactor cooling systems, 24:1994
testing of MSRE salt, conceptual design of stand for, 23:45070 (ORNL-TM-2643)
testing of Sioux Falls Power Reactor recirculation, effects in reactivity of trip, 22:9983 (ACNP-67515)
use of centrifugal, for removing sludge from waste storage tanks, 21:41187 (DP-1093)
use of high-pressure, in gas mixing facility, 21:6120
use of overhead jet, in boiling reactor cooling system, 24:5525(P)
vibrations in Rover reactor turbopumps, testing at 530 to 114°R for 2000 g, 22:42341 (LA-DC-9331)
water flow rates in high pressure, evaluation of radioisotopes as tracers for measuring, 21:45311 (TID-23737, pp 115-32)
water flow rates in high pressure, use of radioactive tracers for measuring, 21:45309 (TID-23737, pp 1-86)
water flow rates in high-head, evaluation of bromine-82 tracer methods for measurement of, 24:16790 (TID-25185)

PUMPS (LIQUID METAL)
see also Electromagnetic Pumps
bearing materials for high-temperature lithium and potassium—sodium, effects of coating on reactions and wear of, 22:2576
bearings and housings for sodium, evaluation of materials for, 24:12358 (WARD-3762-9)
bearings and seals for sodium, development of, 21:14356 (MTI-66TR66, pp 8.1.1-6)
bearings and seals for, design of facility for testing, 23:24344(R) (LMEC-69-1)
bearings for high capacity, design and testing of sodium-lubricated, 23:21856(R) (NYO-3930-4)
bearings for high-capacity sodium, development of sodium-lubricated, 25:8394(R) (NYO-3930-7)
bearings for sodium, development and performance of 12-pocket hydrostatic, 25:41958(T) (CONF-700307-8)
bearings for sodium, properties of materials for, 24:32425
bearings for, design and testing of sodium-lubricated, 23:11692(R) (NYO-3930-3)
book: Basic Theory and Design of Linear Liquid Metal Induction Pumps, 22:43973
calibration of SNAP-10A permanent-magnet, as flowmeter for potassium—sodium alloy, 22:23197 (ORNL-TM-2073)
cavitation in, effect of inert gases on, 21:36231 (ORNL-P-3188)
components for large centrifugal, design of mechanical, 23:26409 (WARD-3762-1)
construction and operation of mechanical sodium, for liquid-metal-cooled fast breeder reactor, 25:4201
description of 1000 MW(e) LMFBR, 22:9990(R) (BAW-1312)
description of BN-350 Reactor liquid sodium circulating, 22:18506
description of circulating sodium, 22:18504
description of multiple vertically mounted centrifugal mixed-flow- or axial-flow-type, 23:11194(P)
design and development of coolant and fuel, for MSRE, 21:35583(R) (ORNL-4119)
design and development of sodium, for PFR, 21:23637
design and operation of inexpensive sodium, 25:37531
design and operation of, for circulating sodium coolant in fast breeder reactors, 25:29257
design and operation of, for liquid metal fast breeder reactors, 25:15825
design and performance data for FTR, 22:14250(R) (BNWL-470)
design and performance of, for 2000 kW sodium test facility, (E), 22:10433 (LA-3782)
design and testing high-volume, for sodium, 22:10438(R) (NAA-SR-12585)
design and testing of sodium, 22:48982(R) (LMEC-68-20)
design characteristics of liquid metal cooled power reactor, 24:43746
design for coolant circulation in reactor fuel storage containers, 24:19191(P)
design for sodium-cooled fast breeder reactors, systems considerations in, 23:28450
design of annular linear induction, for use in sodium loop in TREAT, engineering drawings for, 23:7680
design of asynchronous induction, 21:43122(P)
design of centrifugal free-surface, engineering drawings for, 23:43450
design of centrifugal, for lithium, 21:30239 (NP-16767)
design of electromagnetic, for potassium, 21:30239 (NP-16767)
design of large mechanical centrifugal, for LMFBR, 23:26409 (WARD-3762-1)
design of large sodium, for 1000 to 1500 MW(e) fast breeder reactor power plants, 23:49993 (SAN-681-1)
design of sodium, long shaft and short shaft, 21:44854 (ORNL-TM-1993)
design of sump-type centrifugal, engineering drawings for, 21:14368
design parameter comparison of boiler feed, for cesium and potassium Rankine cycle space power systems, 22:47000 (ORNL-TM-2086)
design problems with liquid sodium cooled fast reactor primary, 25:60077
design requirements for FFTF primary, extrapolation of Fermi and Hallam reactor liquid sodium pumps to, 24:11271 (WARD-3762-5)
design requirements for FTR coolant, 24:11222 (BNWL-1049)
design testing of liquid-metal fast-breeder reactor coolant, analysis of optimum, 22:32870
design, development, and operation of medium capacity sodium, 25:48698(R) (WARD-3762-12)
development and performance of canned-motor centrifugal, in sodium test loop, 23:45438 (ANL-7520(Pt.1), pp 506-14)
development for MSRE, March to August 1966, 21:23612(R) (ORNL-4037)
development for nuclear uses, review on, 23:18182 (BNL-50153)
development for sodium cooled fast breeder reactors, review of, 24:4055
development in France for liquid sodium cooled fast reactors, 24:52892
development in Japan for liquid metal cooled fast breeder reactor cooling system, 25:18132
development in Japan of mechanical, for liquid metal cooled fast reactors, 24:52894
development in Netherlands for liquid sodium cooled fast reactors, 24:52893
development in U.K. of electromagnetic and mechanical, for liquid metal cooled fast reactors, 24:52756
development in U.S.S.R. for liquid metal cooled fast reactors, 24:52891
development of, 25:44728 (NYO-3930-11)
development of, 25:46651 (NYO-3930-12)
development of 500 to 1000 MW(e) liquid sodium-cooled fast reactor, analysis of problems in, 22:32736(T) (ANL-Trans-588)
development of ac sodium, 25:15820
development of boiling mercury thermoelectric, use of BOMPUP computer code for, 21:16043 (NAA-SR-Memo-11350)
development of centrifugal sump-type, for molten salt fuel and coolant, 24:50077 (ORNL-TM-2987)
development of liquid metal cooled fast reactor, 24:43744
development of optimum 50,000 to 100,000 gpm free-surface shaft-sealed centrifugal mechanical-type, description of, 22:46962
development of potassium, for SNAP-50/SPUR, 21:19820
development of SNAP-8, 21:17510(R) (AGC-3297)
development of sodium, 25:51677
development of sodium, 24:43689 (CONF-700307-5)
development of sodium, for Sodium Test Facility (LASL), 21:44854 (ORNL-TM-1993)
development of space-flight fast liquid lithium-cooled power reactor, description of, 23:6033
development of TREAT liquid sodium Mark-2 in-pile loop annular linear-induction, description of, 22:44884 (ANL-7369)
drive systems for low-capacity, operation and performance of, 24:11724 (WARD-3762-6)
electric insulators for, testing of inorganic, 21:20608(R) (NASA-CR-54716)
fabrication development of turbine, 21:13099 (ORNL-3970, pp 185-92)
handling requirements for FFTF primary liquid sodium, on-site, 24:11273 (WARD-3762-10)
heating of assemblies of, method of minimization of thermal distortion from, 25:25981(P)
instrumentation for PFR sodium cooling system, 25:23925
maintenance of liquid sodium cooled reactor, review of, 24:5524
materials for LMFBR, summary of properties of structural, 24:32424
motors for mercury, design and testing of, 24:52978 (N-70-31873)
operation and performance of, during exposure to magnesium chloride—potassium chloride—sodium chloride, 21:45191 (ANL-7325, pp 19-49)
operation history of HNPF sodium, 21:35581 (NAA-SR-Memo-11485)
operation of liquid sodium cooled reactors, review of, 24:5524
operation of ORNL molten-salt, 21:44854 (ORNL-TM-1993)
operation performance of EBR-2, Fermi Fast Breeder Reactor, SRE, and Hallam Power Reactor, review of, 23:11193 (CONF-680419-, pp 326-53)
performance data for annular linear induction (ALIP), 22:32735 (ANL-7310, pp 249-375)
performance of centrifugal sump-type, during MSRE operation, 24:50077 (ORNL-TM-2987)
performance of FFTF liquid sodium, effects of coolant loop location on, 22:35590 (BNWL-729)
performance of liquid sodium fast reactor, 22:18503
performance of potassium and sodium, in space power systems, 22:12975
performance of sodium purity, 22:18600
performance requirements of mechanical sodium, for reactors, comparison with electromagnetic pumps, 25:41958(T) (CONF-700307-8)
performance testing of, 22:647(R) (BNL-50077)
power failure in sodium, flywheel-augmented flow coastdown following, 22:37449 (ORNL-TM-2132)
reliability of sodium, 22:16203
shaft seals for LMFBR, selection of materials for, 24:32426
shafts and shaft systems for low-capacity centrifugal, design of large, 24:11725 (WARD-3762-7)
shielding requirements for FFTF primary liquid sodium, 24:11272 (WARD-3762-8)
sizes and weights of, estimates in SPTF, 21:5621 (NAA-SR-Memo-12163)
startup of SNAP-8, battery—inverter unit frequency during, 24:13618 (N-70-11628)

- startup tests for 400 hz centrifugal, in SNAP-8 NaK cooling system, 24:16256 (N-70-11485)
- test facility for, conceptual design of, 21:32293(R) (NAA-SR-12416)
- testing facility design for, 22:206(R) (NAA-SR-12520)
- testing of HNPF prototype sodium, design of loop system for, 22:53279 (LMEC-Memo-68-21)
- testing of large sodium, dynamic heat transfer model of main flow loop facility for, 24:5798
- testing of reactor space power system, low temperature liquid NaK loop for, 24:2044 (UCRL-50004-67-1, pp 47-82)
- testing of sodium, design and development of facility for, 24:20936(R) (LMEC-70-1)
- testing of sodium, design of facilities for, 23:9610(R) (LMEC-68-13)
- testing of sodium, design of facilities for, 23:9609(R) (LMEC-68-1)
- testing of sodium, design of facility for, 24:14126(R) (LMEC-69-30)
- testing of sodium, design of test facility for, 23:24344(R) (LMEC-69-1)
- testing of SRE, results of preoperational, 21:35580 (NAA-SR-12409)
- use of electromagnetic induction, in fuel element thermal test loop, 21:30605

- PUPAE
  - effects of irradiated silkworm, on growth of swine, 21:9047
  - growth rate of Tribolium confusum, determination of, 21:32727 (AECD/RB-6)
  - oxygen uptake by Ephestia, variations in, 21:6473(R) (NYO-2902-5(and Suppl.))
  - phosphorus-32 distribution in Drosophila, following uptake by larvae of different ages, 22:23460
  - phosphorus-32 uptake by yellow-fever mosquito, loss and transfer during development, mating, and oviposition following, 22:36165
  - radiation effects on Angoumois grain moth, adult emergence following gamma and infrared, 25:49280
  - radiation effects on Anopheles, 21:13047
  - radiation effects on cereal leaf beetle, β, γ, and x, 22:45681
  - radiation effects on development of coffee leaf miner, γ, 25:47069 (NYO-2043-235, pp 28-65)
  - radiation effects on development of Mediterranean fruit fly, γ, 25:47069 (NYO-2043-235, pp 28-65)
  - radiation effects on development of Sarcophaga, effects of dose rate on β, 23:29725
  - radiation effects on development of, effects of gamma dose on Sacodes pyralis, 21:1797 (IAN-A-3)
  - radiation effects on development of, of Dacus oleae in comparison with effects of Tepa, γ, 24:32171
  - radiation effects on disk transplants in housefly, whole-body x, 24:831
  - radiation effects on Drosophila melanogaster, x, 23:24712
  - radiation effects on early spermatids in Drosophila, recovery from x, 21:20340
  - radiation effects on formation of, by insects, effects of ecdysone on γ or x, 22:31147
  - radiation effects on frequency of ecdysis of, of wax moths, combined effects of wounding on x, 24:36806
  - radiation effects on fruit fly Strumeta tryoni, effects of temperature on γ, 21:20384
  - radiation effects on grain beetle, effects of dose on γ, 21:14723
  - radiation effects on Habrobracon, effects of, on adult life span, x, 21:24566
  - radiation effects on Hyphantria cunea, effects of age at exposure on γ, 21:36743
  - radiation effects on life span, mortality, and reproduction of rice stem borer, effects of dose on γ, 22:36397
  - radiation effects on lifetime and reproductive capacity of codling moth, effects of dose on γ and x, 25:29612
  - radiation effects on male gypsy moth, effects of dose on reproduction and survival of adults following γ, 25:29616
  - radiation effects on metamorphosis of, of Tribolium, x, 21:11014
  - radiation effects on molting of dermestid beetle, effects of dose on γ, 22:6915
  - radiation effects on morphogenesis in, of houseflies, effects of age and dose on x, 24:17124
  - radiation effects on mortality of Drosophila, γ, 22:2549
  - radiation effects on Musco domestica, effects of, on life span and wing retention by adults, 22:555
  - radiation effects on oxygen uptake by, of Sarcophaga peregrina flies, x, 21:12977
  - radiation effects on silkworm, effects of, on egg development following exposure at various ages, x, 24:34595
  - radiation effects on silkworm, effects of, on quality of silk fiber, γ, 22:40979 (THAI.-AEC-8)
  - radiation effects on survival of boll weevil Anthonomus grandis, x, 21:12971
  - radiation effects on survival of fruit fly, combined effects of high temperature on x, 23:35856
  - radiation effects on survival of fruit fly, on bananas, γ, 25:32635
  - radiation effects on survival of larvae and pupae of alfalfa weevil, effects of dose on γ, 25:26913
  - radiation effects on survival of, of alfalfa weevils, γ, 25:16289
  - radiation effects on survival of, of sugarcane borer, effects of dose on γ, 23:12187 (PRNC-122)
  - radiation effects on susceptibility of Musca domestica to insecticides, x, 21:36736
  - radiation effects on testes of, of screwworms, cytological study of γ, 21:34760
  - radiation effects on tobacco budworm, γ, 23:900
  - radiation effects on, of Anopheles pharoensis, eradication study on γ, 21:26705
  - radiation effects on, of cereal insects, effects of dose on γ, 25:21822
  - radiation effects on, of coffee leaf miner, effects of dose on γ, 24:32319
  - radiation effects on, of corn borer, effects of dose on γ, 24:32318
  - radiation effects on, of Dermatobia hominis, effects of dose on γ, 24:34807
  - radiation effects on, of Drosophila melanogaster, γ, 22:10864
  - radiation effects on, of flour beetles, latent x, 22:10824 (BNWL-480, pp 1-19)
  - radiation effects on, of fruit flies, effects of, on mortality and egg viability, effects of dose on γ, 23:48291(R) (NYO-3989-2)
  - radiation effects on, of fruit flies, phosphorus-32 β, 23:22355 (CONF-670649-7)
  - radiation effects on, of Heliothis virescens, effects on fertility of adults of, γ, 23:24716
  - radiation effects on, of holyhock seed moth, in relation to sterilization, x, 22:52122
  - radiation effects on, of male fruit flies, effects of, on adult fertility, γ, 21:45815
  - radiation effects on, of moths, x, 22:17070
  - radiation effects on, of olive flies, effects of dose on γ, 24:32331
  - radiation effects on, of Rhagoletis, effects of 2400 R dose on x, 24:7981
  - radiation effects on, of rice weevils, cobalt-60 γ, 22:10822 (AECD/AG-22)
  - radiation effects on, of Sarcophaga peregrine, recovery from low dose β, 25:16297
  - radiation effects on, of Tribolium castaneum, lethal γ, 21:32726 (AECD/AG-20)
  - radiation effects on, of Tribolium, effects of centrifugation, dose, and vibrations on x, 22:31208 (UCRL-17751, pp 41-51)
  - radiation effects on, of tsetse flies, effects of dose on γ, 24:34808
  - radiation effects on, of tsetse flies, effects of dose on γ, 24:34811
  - radioinduced cellular pathologies in wax moth Galleria, x, 21:11098
  - radioinduced dominant lethal mutations in Anopheles pharoensis, frequency of γ, 21:24389
  - radioinduced inhibition of imago formation in, of Sarcophaga, effects of dose on strontium-90 β, 25:8749(T) (NSJ-tr-156)
  - radioinduced mortality and sterility in pine pest Thaumetopoea pityocampa, 21:18199
  - radioinduced mutants in moth Ephestia kuehniella, effects of age on, 21:10844
  - radioinduced mutations and sterility in grain beetles Attagenus piceus and Trogoderma glabrum, γ, 21:18144
  - radioinduced mutations for weight variations in, of Tribolium, x, 23:41284
  - radiosensitivity of beetle, comparison of, to moth, γ, 21:28711
  - radiosensitivity of boll weevil, following exposure to cobalt-60, 21:6617
  - radiosensitivity of cabbage fly, γ, 22:40981
  - radiosensitivity of Drosophila ananassae, x, 22:17011
  - radiosensitivity of flesh fly, effects of age on, 23:20333
  - radiosensitivity of flour beetle, grain borer, and rice weevil, γ, 25:47068 (AECD/RB-12)
  - radiosensitivity of human bot fly, effects of stage of development on γ, 22:23699
  - radiosensitivity of mosquito, γ, 21:32818
  - radiosensitivity of Phaenicia sericata, effects of age on x, 25:19098
  - radiosensitivity of rice weevil, acute cobalt-60 γ, 23:6628
  - radiosensitivity of Sarcophaga peregrina R.-D., x, 21:22752
  - radiosensitivity of South American fruit fly, Anastrepha fraterculus, γ, 25:49328(R) (NYO-3989-3)
  - radiosensitivity of, of sugarcane borers in comparison to embryos and larvae, γ, 25:29755
  - radiosensitivity of, of Tribolium confusum, uv and x, 21:11051
  - radiosterilization of Lymantria dispar, cobalt-60 γ, 21:6472
  - radiosterilization of moth, γ, 21:6639
- PUPPY
  - see Pluto Reactors (Tory)
- PUREX PROCESS
  - building for, radioisotope levels in air of, 22:12474 (BNWL-643)
  - chemistry of, 24:39035
  - contactor for, efficiency of stainless steel stacked-clone, 22:12403 (ORNL-4094, pp 5-13)
  - control of, design of on-line instrumentation for, 25:247
  - criticality studies of safe uranium-235 enrichments in facilities for, 23:9500 (ARH-407)
  - development for LMFBR fuels, 23:38060
  - development of, review of, 21:40951 (CONF-670542-, Paper 6)
  - developments and problems in, 24:36369
  - efficiency for fast breeder fuel element reprocessing, 25:57518(T) (EURFNR-888)
  - efficiency for reprocessing breeder fuels, 22:48909
  - efficiency for reprocessing natural uranium fuel slugs irradiated at low levels, zinc sulfide scintillation detectors for in-line monitoring of plutonium concentrations for determining, 23:7761
  - efficiency of Hanford, effects of NPH diluent on, 24:50441 (ARH-SA-73)
  - efficiency of, using tetravalent uranium ions as reducing agent for plutonium, 23:40796(T) (BNWL-tr-36)
  - equipment for reprocessing high-plutonium-content fuel by, 22:30646(T) (EURFNR-460)
  - feed solutions for, nitric acid dissolution of breeder fuels for, 22:42810(T) (EURFNR-471)
  - feed solutions for, nitric acid dissolution of breeder fuels for, 22:25460 (KFK-673)
  - ferrous sulfamate oxidation in nitric acid solutions at 27, 60, and 96°C in, 23:380
  - hydrazoic acid formation and destruction in, 25:57511 (BNWL-B-121)
  - improvements in, 25:4134(T) (AEC-tr-7198)
  - jets for, standard groupings and process specifications for Certified Performance, 23:9608 (ISO-875)
  - materials management and safeguard procedures in plants using, 21:1414 (BNWL-301)
  - materials management and safeguards procedures for plant using, model for, 21:1415 (BNWL-301(App.))
  - neptunium content of process solutions in, 24:11646 (BARC-428)
  - neptunium determination in feed streams in, by alpha-gamma counting, 23:31396 (ARH-SA-35)
  - neptunium extraction behavior in, 23:38026 (KFK-797)
  - neptunium recovery and purification in, information manual on, 23:15925 (HW-77678)
  - nitrous acid elimination from organic stream in, 25:57511 (BNWL-B-121)
  - nuclear materials management in, 24:27185 (BNWL-1384)
  - performance in reprocessing of fuel elements for fast breeder reactors, 23:6204
  - plant design in Germany using, 21:30523
  - plutonium determination in organic phase of, spectrophotometric, 25:37266 (CEA-R-4111)
  - plutonium reduction by tetravalent uranium in, at Eurochemic plant, 23:11604 (NP-17741)
  - plutonium reduction in, efficiency of hydroxylamine nitrate for, 25:15721 (DP-1248)
  - plutonium reduction in, properties of ferrous nitrate for, 23:24277 (ORNL-4383)
  - plutonium retention in, 22:16643 (KFK-652)
  - plutonium separation from uranium in, platinum-catalyzed hydrazine reductions in, 25:44411 (BNWL-1584)
  - plutonium yields in, effects of radiolytic decomposition of TBP on, 23:43384 (KFK-691)
  - plutonium(IV) reduction in, electrolytic cell for, 25:6294(T) (ORNL-tr-2407)
  - pulse columns for use with, design of, 21:1418 (ISO-SA-6)
  - pulse columns for, development of high-capacity cartridge for, 23:15926 (HW-84473)
  - pulse extractor hydrodynamics in, horizontal, 21:43024 (UJV-1665)
  - radioactive waste decontamination from Hanford, using in-canyon condensate recycle, 24:50492 (ARH-SA-68)
  - radioactive waste from, on-line polarographic determination of uranium in, 25:8 (KFK-1144)
  - radioactive waste from, separation of neptunium and plutonium from, 23:17545
  - radioactive wastes from, solidification of simulated, 23:50089(R) (BNWL-1186)
  - radioactive wastes from, solvent extraction of neptunium and plutonium from liquid, 23:15922 (BNWL-702)
  - radioiodine release at Savannah River Plant from, effects of mercury on suppression of, 22:35882 (DP-MS-66-78)
  - radioiodine release in, use of mercury in suppression of, 22:30667
  - reductants for use in, at Hanford Plant, 24:50440 (ARH-SA-69)
  - research progress on, for LMFBR fuel reprocessing, 25:39562(R) (HEDL-TME-71-55)
  - ruthenium complexes in, TBP retention of, 25:39565 (KR-143)
  - separation of neptunium from solutions of, by solvent extraction and anion exchange, 23:40789(T) (AEC-tr-7076, pp 108-29)
  - sludge from, neptunium and plutonium separation by solvent extraction using bis(2-ethylhexyl) phosphate from, 22:21154 (BNWL-583)
  - solutions from, analysis for plutonium and uranium, 23:17535
  - solutions from, analysis for plutonium and uranium by x-ray fluorescence, 23:17352
  - solutions from, solvent extraction of neptunium from waste, 24:50447 (CONF-690916-(Vol.2), pp 239-43)
  - solutions from, spectrophotometric determination of nitrous acid in, 23:2179 (NP-17554)
  - solutions in, in-line spectrophotometric analysis of, 25:23583 (KFK-1306)
  - solutions in, simultaneous determination of plutonium and uranium in, 24:38711 (KFK-1121)
  - solvent cleanup using macroreticular ion exchange resins in, 25:57509 (ARH-SA-58)
  - solvent cleanup using macroreticular ion exchange resins in, 25:34679 (ARH-SA-58-RD)
  - solvent performance in LMFBR fuel reprocessing by, 25:18505 (WHAN-FR-32)
  - solvent washing in, design of washer insert for first cycle, 23:11694
  - tributyl phosphate stability in, review of, 22:18873(T) (ORNL-tr-1901)
  - uranium determination in solutions in, on-line polarographic, 23:31280 (KFK-869)
  - uranium separation from plutonium in, mixer-settler studies on flow diagram for, 23:28942(T) (BNWL-tr-28)
  - ventilation system for Hanford, reclamation of glass fiber filters for, 23:29068
  - waste (PW-1) processing for, development of phosphate glass method for, 21:43216(R) (BNWL-507)
  - waste (PW-1) processing for, effects of component concentration on, 22:23244 (BNWL-544)
  - waste (PW-1) processing for, melting point depressants for, 21:3229(R) (BNWL-306)
  - waste (PW-1) processing for, phosphate glass method for, 23:544 (BNWL-824)
  - waste (PW-1) processing for, pot solidification method for, 22:21297(R) (BNWL-677)
  - waste (PW-1) processing for, spray solidification method for, 21:28183(R) (BNWL-434)
  - waste (PW-1) processing for, spray solidification method for, 21:28182 (BNWL-410)
  - waste (PW-2) processing for, effect of variation in feed composition on, 21:3229(R) (BNWL-306)
  - waste (PW-2) processing for, phosphate glass method for, 23:544 (BNWL-824)

  waste (PW-2) processing for, pot solidification method for, 21:43216(R) (BNWL-507)
  waste (PW-2) processing for, Pot-Cal and spray solidification methods for, 21:28182 (BNWL-410)
  waste (PW-2) processing for, Pot-Cal method for, 21:28183(R) (BNWL-434)
  waste (PW-2) processing for, spray solidification method for, 22:21297(R) (BNWL-677)
  waste calcination and fixation from, corrosive effects on container materials for, 21:39164 (ORNL-3816)
  waste disposal from, at Savannah River Plant, geologic aspects of underground, 22:28036 (DP-MS-67-108)
  waste fixation in phosphate glass in, for ruthenium retention, 23:4738
  waste from, flowsheet for cesium recovery from, 24:27183 (ARH-1639)
  waste from, pot calcination process for solidification of, (E), 21:10574 (CONF-660208-, pp 301-25)
  waste from, processing of, 24:33754(R) (BNWL-1401)
  waste from, recovery of cesium from, 21:30491 (BNWL-288)
  waste from, recovery of fission products from, 21:45206 (ORNL-4145, pp 240-2)
  waste from, recovery of palladium from, using activated charcoal, 25:15720 (ARH-1552)
  waste from, recovery of plutonium from, 23:47580 (ARH-SA-39)
  waste from, recovery of plutonium-239 from, 25:29191
  waste from, solidification of, 24:9421(R) (BNWL-1263)
  waste from, spray solidification processing of, 23:35255(R) (BNWL-1074)
  waste from, submerged combustion process for evaporation and concentration of, 23:6215
  waste from, treatment of, by pot solidification, 25:10658(R) (BNWL-1533)
  waste processing for, glassification studies of, 23:4739
  waste processing for, pot and spray methods for, (E), 22:47306(R) (BNWL-771)
  waste processing for, pot calcination method for high-level, 23:2541 (BNWL-820)
  waste solution analysis for uranium, polarographic, 22:8009
  waste solutions containing chromium(VI) and iron(III) from, corrosive effects on Type 304L stainless steel, 23:14296 (HW-72076)
  waste solutions from, corrosion of Type 304L and Uranus S stainless steel by high-level, 24:8051 (BNWL-1237)
  waste solutions from, method of sample preparation for analysis of calcinated, 24:2100 (IN-1316, pp 41-59)
  waste solutions from, submerged combustion method for concentration of synthetic, 23:2393
  wastes from Hanford, effects of Ben Franklin Dam on disposal of, 21:32347 (BNWL-412)
  wastes from, concentrator corrosion levels in processing of, 23:13823 (HW-75732)
  wastes from, effects of radiation, reflux, and solution composition on concentration of, 23:13820 (HW-63453)
  wastes from, equipment and procedures for solidification of simulated, 21:8566 (ORNL-4017)
  wastes from, evaporation of organic wash, 23:13821 (HW-71145)
  wastes from, processing of, 23:13822 (HW-71789)
  wastes from, separation of strontium from, 21:43025 (UJV-1763)
  zirconium decontamination efficiencies in, effects of fluoride in feed solutions on, 25:41889 (BNWL-1573)
Purification Equipment
    see Water Purification Equipment
PURINE
  luminescence of, 23:35136(R) (PRNC-128)
  radiation effects on aerated and aqueous solutions of, γ, 24:232
  radiolysis in 2-methyltetrahydrofuran glass, spectral studies on γ, 21:25875(R) (PRNC-99)
  radiolysis of aqueous solutions of, reaction kinetics of, 23:35158
PURINE, 2-AMINO-
  effects on β-galactosidase gene of Escherichia, mutagenic, 25:26722
  effects on Escherichia coli, method for determining specificity of mutagenic, 22:4593
  effects on Neurospora, specificity of mutagenic, 25:42352
Purine, 6-Amino-
    see Adenine
Purine, 6-Amino-9-β-D-ribofuranosyl-
    see Adenosine
9H-PURINE, 6-(ETHYLTHIO)-9-β-D-RIBOFURANOSYL-
  effects on RNA metabolism in rats with strontium-90-induced chloroleukemia, 25:32447
Purine, 6-Mercapto-
    see Purine-6-thiol
PURINE, 6-METHYL-
  effects on γ and uv radiation effects on Aspergillus, 21:20445
  radioinduced resistance to, in conidia of Aspergillus nidulans mutants, rate of γ and uv, 21:4785
Purine, 6-[(1-Methyl-4-nitroimidazol-5-yl)-thio]-
    see Azathioprine
PURINES
    (Substituted purines found in nucleic acids)
    see also Adenine
    see also Guanine
  deficiency effects on x-radiosensitivity of DNA in Escherichia coli, 22:25780
  determination of, for growth of auxotrophic strains of E. coli, methods and procedures for, 21:10817
  dimers, repair of radioinduced, 21:22398
  effects on fetuses of rats, histopathological study of teratogenic, 21:39446(R) (NYO-3777-7)
  effects on free radical formation in uv-irradiated alcohol, 23:43699
  effects on phosphorus-32 uptake by nucleotides of thymus nuclei, 24:46562
  effects on rats of analogs of, following injection, oncogenic, 24:543(R) (NYO-910-125)
  effects on reproductive capacity of female insects, 22:45744
  effects on uv-radioinduced formation of dimers and hydrates in pyrimidines, 22:25791
  formation in early solar system by catalytic synthesis, (E/T), 25:58576
  formation in early solar system by catalytic synthesis, (E/T), 25:58575
  linear sequence of, in relation to structure of RNA, 23:9361 (UCRL-18216, pp 45-80)
  photochemistry of, in nucleic acids, review of, 21:12771
  radiation effects on content of, in human urine following therapy of pulmonary carcinoma, 23:20289
  radiation effects on content of, in yeasts, cosmic, 22:12944
  radiation effects on fluorescence in, γ, 23:9466
  radiation effects on properties of, 21:26330(R) (N-67-11851)
  radiation effects on ratio of, to pyrimidines in guinea pigs, x, 21:6447
  radiation effects on ratio of, with pyrimidines in RNA of cotton seeds, γ, 21:34586
  radiation effects on the composition of, in messenger RNA in Escherichia coli, uv, 23:38490
  radiation effects on, effects of phosphoric acid residues on γ, 22:33770
  radiation effects on, mechanisms of, 22:40123
  radiation effects on, of nucleic acids, effects of oxygen on, 21:45531
  radiation effects on, review of mechanism of uv, 24:50717
  radiation effects on, uv and x, 21:8701
  radioinduced destruction of, in DNA, γ, 23:7956
  radioinduced formation of anions in frozen solutions of, effects of light and increasing temperature on γ, 24:48413
  radioinduced free radicals in, x, 21:43340
  radiolysis of aqueous solutions of, mechanisms of pulsed-electron, 23:9420(R) (GA-8872)
  radiolysis of oligonucleotides of, in cottonseed DNA, γ, 25:44391
  radiolysis of tritium-labeled, self-, 25:161
  radiolysis of, effects of chloride ions on, 23:9844 (UCLA-12-686, pp 67-84)
  radiolysis of, in DNA, x, 23:6383
  radiolysis of, isolation and structure of products of γ, 25:51990 (A/CONF.49/P-633)
  radiolysis of, rate constants for hydrogen atom reactions following electron, 25:55132
  radiosensitizing effects of halogenated, on Bacillus subtilis, effects of pH on, 25:24205
  reactions with hydrogen atoms in relation to DNA, 23:50331 (AI-AEC-Memo-12861)
  reactions with hydroxyl radicals, 21:10724(R) (NP-16209)
  reactions with radiolytic hydroxyl radicals and hydrated electrons, 23:47531
  reactions with short-lived transients produced by radiolysis of water, ESR studies on, 25:32007
  spectra of anions of, ESR, 23:21726 (AI-AEC-12744, pp 159-61)
  spectra of, effects of deuterium ion concentration on NMR, 22:28309
  stability of tritium-labeled, in metabolic processes, 22:51461
  synthesis in man with hyperuricemia in relation to sex-linked neurological disorders, 22:12743 (ACRH-1000-32)
  synthesis of primordial, 22:33734
  synthesis of, in liver of irradiated pigeons, effects of mercaptopropylamine on, 21:10754
  tritium exchange in aqueous solutions, effects of acidity on, 22:27699
  tritium exchange in, effects of pH and temperature on, 25:161
  use of labeled, for evaluation of metabolic activity in tumor cells, 21:34708
PURINE-6-THIOL
  crystal structure of monohydrate of, 23:106 (ORNL-4306, pp 131-73)
  effects on antibody plaque response in mice, assay for suppressive, 24:11993
  effects on antibody production in children with leukemia, combined effects of prednisolone on, 24:616
  effects on antibody production in mice in comparison with effects of x rays, 24:631
  effects on bone marrow of rats combined with x radiation effects, 24:34710
  effects on growth of transplanted tumors in mice, additive effects of deuterium oxide on, 21:36490
  effects on immune reactions in rabbits, 21:34572
  effects on immune reactions in rabbits, 21:39320(R) (AD-632250)
  effects on proportions of erythrocyte types in cattle twin chimeras, 21:20318(R) (COO-1210-27)
  effects on reaction of x-irradiated dogs to homografts of intestine and kidney, 23:47995
  structure of monohydrate of, crystal and molecular, 21:45089 (ORNL-4164, pp 101-44)
  use for therapy of myelogenous leukemia, development of neoplastic reticulosis following, 24:890
  use for treatment of human head and neck cancer in combination with x radiation, 24:27621
6-PURINETHIOL, 2-AMINO-
  effects on proliferation of cultured antigen-stimulated spleen cells from mice, dose-response curve for, 23:50820
PUROMYCIN
  effects on chlorophyll synthesis of Chlorella mutant, 22:36220
  effects on cytaster formation in amphibian eggs, 22:43448
  effects on γ-radioinduced mitotic delay in sea urchin eggs, 24:32162
  effects on γ-radiosensitivity of reticuloendothelial system of mice, 22:45641
  effects on host cell repair of uv-radioinduced inactivation of pseudorabies virus, 23:38899
  effects on incorporation of glucosamine-1-^{14}C by Chinese hamster cells, 21:12951(R) (LA-3610)
  effects on infectivity of vaccinia virus in cultured cells, 23:50385
  effects on iron-59 uptake by reticulocytes in rabbits, 24:39423
  effects on leucine incorporation into proteins of γ-irradiated potatoes, 25:32363
  effects on liver cholesterol synthesis in whole-body x-irradiated rats, 24:14426
  effects on mitosis and protein synthesis in grasshopper neuroblast cells, 22:28407(R) (ORO-2575-41)
  effects on opsonin dependent recovery of reticuloendothelial blockade, 23:43709(R) (ORO-3853-85)
  effects on protein metabolism in x-irradiated cells, 21:32718
  effects on protein synthesis by Chinese hamster cells, progression and radiation repair following, 22:25785
  effects on protein synthesis during mitotic cycle of sea urchin eggs, 22:25712 (COO-78-163, pp 39-63)
  effects on protein synthesis in cell cultures, cytochemical evaluation of, 21:14569
  effects on protein synthesis in isolated γ-irradiated mitochondria of pear fruits, 23:29346(R) (UCD-34-P-112-41)
  effects on protein synthesis in prophage, inhibitory, 25:37732(R) (NYO-2358-17)
  effects on radioinduced chromatid and chromosome aberrations in Crepis capillaris, 24:23176
  effects on radioinduced chromosome aberrations in Crepis capillaris, 23:29442
  effects on radiosensitivity of cultured mammalian cells, 23:9834(R) (NYO-910-70)
  effects on recovery from γ-radioinduced division delay in developing sea urchin eggs, 24:27607 (ANL-7615, pp 25-32)
  effects on RNA synthesis during regeneration in Stentor coeruleus, 21:45593
  effects on synthesis of proteins during spermatogenesis in fruit flies, tritium tracer study of, 22:28668
  effects on unscheduled DNA synthesis in x-irradiated mammalian cultured cells, 25:27002
  effects on uracil incorporation into nucleic acids of γ-irradiated potatoes, 25:32363
  effects on uv-radiosensitivity of cultured Chinese hamster cells, 22:36361
  effects on x-irradiated cells in relation to protein synthesis, 23:50365
  effects on x-radiosensitivity of antibody synthesis by spleen cells from mice, 22:4569
  effects on x-radiosensitivity of HeLa cells, 23:8048
  radioprotective effects on mutation frequencies in Drosophila melanogaster, γ, 21:24534
  radioprotective effects on transfer of prophage-inducing activity by Escherichia coli, uv, 21:22810
  toxicity to frog cells, 24:14568(R) (NYO-2356-36)
PUROMYCINAMINONUCLEOSIDE
  effects on x-radiosensitivity of cultured mammalian cells, combined effects of cell phase on, 23:9834(R) (NYO-910-70)
PURRE
    see Plutonium Recycle Test Reactor
PVA (Polyvinyl Alcohol)
    see Vinyl Alcohol Polymers
PWR (Shippingport)
    see Shippingport Pressurized-Water Reactor
PYCNOMETERS
  design for measuring bulk volume of porous fuel pellets, engineering drawings for, 24:41591
  design for measuring volume of irradiated space reactor fuel pellets, 24:16737 (CONF-690910-, pp 413-19)
  design for stabilization of gas pressure for flow-through proportional detectors, 25:2453
  design of mercury, for nitride fuel density measurements, 25:49508 (ORNL-TM-3416, pp 52-74)
  design of vacuum, for bulk volume measurement of reactor fuel pellets, engineering drawings for, 21:19832
  development for plutonium dioxide density measurements at 750°C, 21:9233
  development of gas, for measuring swelling of boron carbide during irradiation, 25:54599 (ORNL-4717, p 117-24)
  development of vacuum, for density measurements of porous fuel pellets, 24:5956
  development of vacuum, using mercury for reactor fuel pellet density measurements, 21:14499 (ORNL-TM-1743)
  fabrication of urania, by dry-pressing for containing liquid uranium, 23:6716
Pyknometers
    see Pycnometers
Pyralin
    see Celluloid
4H-PYRAN, 2,3-DIHYDRO-
  hydrolysis in hydrochloric acid, deuterium isotope effects in, 21:10349
PYRAN, TETRAHYDRO-
  complexes with boron trifluoride, boron isotope equilibrium in, 23:15936
  effects on chlorine-36 exchange between aluminum chloride and hexachloropropene in dichloromethane solution, 22:12321
  radiation effects on bond scission of, electron, 22:42719(T) (AEC-tr-6937, pp 176-83)
  radiation effects on, at 77°K, ESR spectral studies on free radicals produced by electron, 22:8129
  radiation effects on, at 77°K, ESR studies of free radicals from electron, 22:42714(T) (AEC-tr-6937, pp 117-32)
  spectra of, effects of deuterium on vibrational, 24:38875

- 4(H)-PYRAN-4-ONE, 2-(CHLOROMETHYL)-5-HYDROXY-
  - complexes with uranium, preparation and characterization of, 21:34263
- 4H-PYRAN-4-ONE, 5-HYDROXY-2-(HYDROXYMETHYL)-
  - complexes with uranium tetrachloride, preparation and characteristics of, 23:6111
  - complexes with uranium, formation of, in formate buffer, 21:40864
  - complexes with uranium, preparation and characterization of, 21:34263
  - production by γ-radioinduced mutants of Aspergillus oryzae, effects of composition of culture medium on, 23:7988
  - production in uv-irradiated Aspergillus, 21:16549
- 4H-PYRAN-4-ONE, 3-HYDROXY-2-METHYL-
  - complexes with aluminum, preparation and properties of, 23:19657
  - complexes with uranium, preparation and properties of, 23:19657
  - complexes with uranyl ions, equilibrium and stability constants for, 23:13697
- PYRAZINE
  - complexes with uranium chlorides, preparation and physical properties of, 25:6327
  - complexes with uranium pentachloride, properties and spectra of, 23:43329
  - deuterium exchange between deuteriomethanol—sodium methoxide and, 23:45292
  - effects on intermediates produced by gamma radiolysis of 1,2-dibromo-1,1,2,2-tetrafluoroethane—trichlorofluoromethane mixture, spectral studies on, 22:35831 (PRNC-116)
  - hyperfine coupling parameters in radical anions of, ESR spectra of nitrogen and proton, 21:30402 (UCRL-17330, pp 1-78)
  - inertial constants for ground-state, effects of nitrogen-15 on, 21:35969
  - photolysis of liquid, 21:23978
  - radiation effects on ethanol solutions of, at 77°K, EPR studies on free radicals produced by, 21:28024
  - radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on free radicals produced by γ, 22:27743 (CONF-680423-1)
  - radiolysis in 2-methyltetrahydrofuran glass, spectral studies on radical ions produced by γ, 22:35831 (PRNC-116)
  - radiolysis in 3-methylpentane glass at 77°K, luminescence studies on γ, 22:35831 (PRNC-116)
  - radiolysis in Freon and 2-methyltetrahydrofuran glasses, spectral studies on γ, 21:25875(R) (PRNC-99)
  - radiolysis in tetrahydro-2-methylfuran glass, absorption spectra of radical anions from γ, 24:7453
  - radiolysis of, γ, 21:23978
  - spectra of excited states in, NQR, 23:40616 (UCRL-18735, pp 5-80)
  - spin-lattice relaxation and Zeeman effects in triplet state of deuterated, 25:31742 (UCLA-34-P-91-47)
- 2,3-PYRAZINEDICARBOXYLIC ACID
  - complexes with molybdenum for use in photometric determination, 23:32
  - use in photometric determination of molybdenum, 22:1988
- PYRAZINIUM COMPOUNDS
  - octamethylpyrazino[2,3-b]pyrazinium dodecahydrododecaborate, preparation for use as neutron moderator, 22:18740 (RMD-5097-F)
- PYRAZOLE
  - deuterization of, isotopic exchange in, kinetics of, 23:13741(R) (COO-1620-3)
  - effects on production of water-d_2 by electrolysis, 23:31406(P)
  - electrolysis of, ESR spectra of radicals from, 22:1935 (UCRL-17743)
  - labeling with deuterium, 24:20659 (COO-1620-5)
  - radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on free radicals produced by γ, 22:27743 (CONF-680423-1)
  - radiolysis in 3-methylpentane and 2-methyltetrahydrofuran glasses at 77°K, spectral studies on radical ions produced by γ, 22:35831 (PRNC-116)
  - radioprotective effects of, on hemin solutions, x, 22:8562 (NP-16875)
  - solvent properties of substituted, for thorium, 25:37481
- 3,5-PYRAZOLIDINEDIONE, 4-BUTYL-1,2-DIPHENYL-
  - radioprotective effects as ointment against erythema, uv, 21:34725
  - radioprotective effects of, on skin of man, uv, 22:45594
  - radioprotective effects of, on skin, uv, 22:49393
- 3,5-PYRAZOLIDINEDIONE, 4-BUTYL-1-(p-HYDROXYPHENYL)-2-PHENYL-
  - radioprotective effects of, on facial bones of rats, x, 23:43799
  - radioprotective effects of, on human patients during therapy, x, 25:29549
  - radioprotective effects of, on human skin following therapy for carcinomas, 25:13476
- 3,5-PYRAZOLIDINEDIONE, 4-BUTYL-2-(p-HYDROXYPHENYL)-1-PHENYL-
  - radioprotective effects of, on mice, x, 23:853
  - radioprotective effects of, on survival of mice, x, 23:854
  - use for treatment of radiation sickness in mice, 23:854
  - use for treatment of radiodermatitis, 23:38633
- 1-PYRAZOLINE
  - fluorescence and scintillation properties of, as secondary solutes in plastic and liquid scintillation counting, 23:2599
  - thermolysis of, effects of deuterium on, 23:2268
- 2-PYRAZOLINE-3-CARBOXYLIC ACID, 5-OXO-1-(p-SULFOPHENYL)-4-[(p-SULFOPHENYL)AZO]-
  - trisodium salt, precipitation of zirconium by, in presence of aluminum, iron, rare earths, and titanium, 24:39004
- 2-PYRAZOLIN-5-ONE, 4-ACETYL-3-METHYL-1-PHENYL-
  - solvent properties for barium and strontium, 23:19858
- 2-PYRAZOLIN-5-ONE, 4-BENZOYL-3-METHYL-1-PHENYL-
  - solvent properties for actinides and europium, effects of TBP and TOPO on, 24:27220
  - solvent properties for actinium, 24:31235
  - solvent properties for americium, fission products, neptunium, niobium, plutonium, uranium, and zirconium in benzene solutions, 23:403
  - solvent properties for barium and strontium, 23:19858
  - solvent properties for curium and europium, 24:4369
  - solvent properties for iron in hydrochloric, nitric, and sulfuric acids in presence of plutonium, 23:15932
  - solvent properties for neptunium, 23:13846
  - solvent properties for neptunium in acid solutions, 22:45174
  - solvent properties for niobium in presence of neodymium, 23:47385
  - solvent properties for plutonium, 21:1440
  - solvent properties for thorium, 22:10196
- 2-PYRAZOLIN-5-ONE, 4-BUTYRYL-3-METHYL-1-PHENYL-
  - solvent properties for barium and strontium, 23:19858
- 2-PYRAZOLIN-5-ONE, 4-DECANOYL-3-METHYL-1-PHENYL-
  - solvent properties for barium and strontium, 23:19858
  - solvent properties for scandium, 23:26341
- 2-PYRAZOLIN-5-ONE, 4-ETHOXY-3-METHYL-1-PHENYL-
  - solvent properties for barium and strontium, 23:19858
- 2-PYRAZOLIN-5-ONE, 3-METHYL-4-OCTANOYL-1-PHENYL-
  - solvent properties for barium, calcium, lanthanum, potassium, scandium, and strontium, 22:33495
  - solvent properties for cadmium-115 and strontium-89 and -90, 22:4236
  - solvent properties for indium, 22:12421
  - solvent properties for strontium-89 and yttrium-90, 22:4237
  - solvent properties for various metals, 22:8193
- 3-PYRAZOLIN-5-ONE, 4-IODO-1,2,3-TRIMETHYL-
  - iodine-125 exchange between iodine and, in water, kinetics of, 22:30550
- PYRAZOL-5-OL, 4-[[o-[(6-HYDROXY-m-TOLYL)-ONN-AZOXY]PHENYL]AZO]-3-METHYL-1-PHENYL-
  - solvent properties for strontium, 23:28961
- PYRAZOL-5-OL, 4,4'-METHYLENEBIS[3-METHYL-1-(2-PYRIDYL)-
  - use in fluorometric determination of dysprosium and terbium, 23:70
- PYRAZOLONES
  - complexes of substituted, with thorium for extraction by organic solvents, 24:9482
- 1H-Pyrazolo[3,4-d]pyrimidin-4-ol
  - see Allopurinol
- PYRENE
  - compounds with 2,3,5,6-tetrabromo-p-benzoquinone, neutron reactions with, chemical effects of recoil bromine-82 from, 23:49871
  - effects of coatings of, on γ radiolysis products of poly(vinyl chloride), ESR studies on, 25:34656
  - effects on gamma radiolysis of polystyrene, 23:2305 (BMwF-FBK-68-31)
  - effects on γ radiolysis of poly(methyl methacrylate), kinetics of, 23:17489
  - effects on γ-induced isomerization of 4-methoxy-4'-nitrostilbene in naphthalene, 22:27776
  - effects on γ-radioinduced graft polymerization of cellulose with styrene in methanol solutions, 25:2247
  - effects on ion yields from electron pulse and γ radiolysis of tetrahydrofuran, 24:46265
  - effects on radiation damage in polyphenyls, 21:39711(P)
  - effects on radiation stability of sulfur-containing condensation and polymerization resins, 23:6152
  - effects on radioinduced electric conductivity in hexane, 23:17460 (JAERI-5018, pp 65-7)
  - effects on transformation of x-irradiated, cultured cells from Syrian hamsters, 23:31884
  - effects on x-radiation effects on hexane, electric conductivity measurements on charge scavenging, 23:43364
  - effects on yields of ethylene glycol and hydrogen in radiolysis of methanol, 23:2350
  - electron attachment cross sections for, nondissociative, 22:35777 (ORNL-TM-2216)
  - electron energy loss spectra at 115 eV in polycrystalline, 25:13968
  - electron reactions at 30 keV with vapor of, characteristic energy losses in, (E), 24:3173
  - electron reactions at 50 eV to 10 keV with, cross sections for excitation in, (T), 25:43127(T) (BNL-tr-429)
  - fluorescence induced by pulsed laser, excimer—excimer interactions in, (E), 23:14027
  - fluorescence intensities in delayed and total emission spectra in ethanol solutions of, analysis in terms of triplet—triplet annihilation of, 23:2289
  - positron annihilation in, effective electron density for, 21:37125
  - preparation of tritium-labeled, effects of variables on Wilzbach method for, 22:65
  - radioinduced fluorescence of cyclohexane solutions of, effects of electric field on electron, 23:17465
  - radiolysis in 1,2-dichloroethane solutions, reaction kinetics of molecular cations in electron pulse, 24:36316
  - radiolysis in 1,2-dichloroethane, kinetics of formation of molecular cations in electron pulse, 23:43338(R) (COO-1763-12)
  - radiolysis in acetone, benzonitrile, and dichloroethane, absorption spectra and reactions of cations from electron pulse, 25:51532
  - radiolysis in solutions with polyphenyls, electron transfer in pulse, 21:19667
  - radiolysis of acetone solutions of, at -75°C, dimer formation in electron pulse, 25:34658
  - radiolysis of rigid matrices of methylcyclohexane containing, deferred luminescence spectra following γ, 25:29150
  - radiolysis of solutions of, in glassy and polycrystalline solvents, deferred luminescence technique for obtaining stimulation spectra following γ and uv, 25:29133
  - thermodynamic properties of, at low temperatures, 21:10303(R) (COO-1149-79)
  - triplet exciton motion in, photoconductivity measurements for analysis of, 23:2291
  - cyclohexane—pyrene, radioinduced fluorescence of, effects of electric field on electron, 22:42749
  - polystyrene—pyrene, radiation effects on energy transfer and product formation in, γ, 23:35146
  - pyrene—toluene, fluorescence induced by pulsed laser, excimer—excimer interactions in, (E), 23:14027
- PYRETHRINS
  - synthesis of radioactive, in Ecuador, 25:27134 (CONF-680112-, pp 245-6)
- Pyrex Glass
  - see Glass
- Pyrexal
  - see Lipopolysaccharides
- PYRIDAZINE
  - deuterium exchange between deuteriomethanol—sodium methoxide and, 23:45292
  - effects on intermediates produced by gamma radiolysis of 1,2-dibromo-1,1,2,2-tetrafluoroethane—trichlorofluoromethane mixture, spectral studies on, 22:35831 (PRNC-116)
  - photolysis of liquid, 21:23978
  - radiation effects on ethanol solutions of, at 77°K, EPR studies on free radicals produced by, 21:28024
  - radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on free radicals produced by γ, 22:27743 (CONF-680423-1)
  - radiolysis in 2-methyltetrahydrofuran glass, spectral studies on radical ions produced by γ, 22:35831 (PRNC-116)
  - radiolysis in Freon glass mixture, spectral studies on γ, 21:25875(R) (PRNC-99)
  - radiolysis in tetrahydro-2-methylfuran glass, absorption spectra of radical anions from γ, 24:7453
  - radiolysis of, γ, 21:23978
- PYRIDAZINE, METHYL-
  - deuterium exchange between heavy water and methyl hydrogens of, base-catalyzed, 22:37727
  - l-oxide, deuterium exchange between heavy water and, 22:37727
- 3,6-PYRIDAZINEDIONE
  - radioprotective effects of, on mice, 22:8561(R) (COO-1223-10)
- 3,6-PYRIDAZINEDIONE, 1,2-DIHYDRO-
  - comparison of effects of, and γ radiation on enzyme systems in maize following seed exposure, 21:14599
  - effects on chromosomes in roots of Vicia faba seedlings, combined effects of infrared radiation and aberrant, 25:6811 (RLO-2221-T-2-2)
  - effects on chromosomes in roots of Vicia faba, combined effects of hydroxyurea on aberrant, 22:47505
  - effects on chromosomes of root cells of Vicia faba, effects of blue, green, and infrared light on aberrant, 25:18962
  - effects on chromosomes of Vicia faba, combined effects of x rays on aberrant, 22:28414
  - effects on chromosomes of Vicia faba, effects of hydroxyurea on mutagenic, 22:31022
  - effects on formation of radioinduced Drosophila mutations, additive with γ, 21:24396
  - effects on γ-radiosensitivity of rate of mutations in Drosophila melanogaster, 22:14994
  - effects on organoleptic properties, sprouting, and storage life of potatoes, comparison of, to γ irradiation, 23:12247 (COO-1539-1)
  - effects on root growth in x-irradiated corn seedlings, 22:31283
- PYRIDINE
  - complexes of substituted, with uranium, preparation of, 24:18937
  - complexes with antimony chloride, crystal structure of, 23:213 (IS-1900, Paper 3)
  - complexes with cerium, thorium, and uranium hexathiocyanatochromate(III), preparation and properties of, 23:6121
  - complexes with cobalt or nickel and 2,4-pentanedione, preparation of, for use as secondary standards, 22:45039
  - complexes with cobalt perchlorate, radiation effects on hydrated, at 30 and -89°C, annealing of neutron, 21:36025
  - complexes with hafnium and zirconium tetrafluorides, properties of, ir spectral and thermal decomposition studies on, 23:33204
  - complexes with hemin, radiation effects on, chemistry of recoil iron isotopes produced by neutron, 24:19003
  - complexes with metal salts, radiation effects on, ESR study of free radicals from γ or electron pulse, 23:37982
  - complexes with ruthenium and triphenylphosphine, ir and NMR spectral studies on, 23:49782
  - complexes with tetravalent thorium, preparation and properties of, 23:19725
  - complexes with thorium, titanium, or zirconium and molybdophosphoric acid, ir spectral and thermogravimetric studies on, 24:48030
  - complexes with uranium chlorides, preparation and physical properties of, 25:6327
  - complexes with uranium pentachloride, preparation, properties, and structure of, 24:50368 (CONF-690916-(Vol.2), pp 279-82)
  - complexes with uranium tetrachloride, preparation and characterization of, 23:6111
  - complexes with uranium(V) chloride, properties of, 25:29092
  - complexes with uranyl acetate and uranyl chloride, absorption spectra of, 24:27056

  complexes with uranyl acetate, uranyl chloride, and uranyl nitrate, spectra of, fluorescence, 24:50389
  complexes with uranyl nitrate, binding energy of oxygen—uranium bond in, valence oscillations for measurement of, 23:35069
  complexes with uranyl nitrate, infrared spectra of, 22:14502
  complexes with uranyl perchlorates, coordination spheres in, 21:27967
  compounds with borane, deuterium exchange between, and heavy water, 21:34280
  compounds with borane, hydrolysis of, 21:34280
  compounds with uranyl bromides and/or chlorides, infrared spectra of, 22:2042
  deuterium exchange between aromatic C—H bonds of, 21:35977
  deuterium exchange between deuteriomethanol—sodium methoxide and, 23:45292
  deuterium exchange between water and deuterated, 23:40640
  deuterium exchange between water-d$_2$ and, 23:40640
  deuterium exchange in solutions of deuterated hydrochloric acid, sodium hydroxide, and water, mechanisms for, 21:30410
  deuterium exchange with C-methyl protons in substituted, PMR spectral studies on, 22:6303
  deuterium exchange with hydrogen in, catalytic effects of group VIII metals on, 22:35819
  dissociation in water, effects of deuterium on, 23:40640
  dithiocarbamate, radioprotective effects on mice, 22:28579
  effects as scavenger in radiolysis of polar organic glasses, 23:31358 (CEA-R-3537)
  effects of, on quenching of toluene scintillators, 21:4485 (EGG-1183-2111)
  effects of, on yield of potassium ions from kidneys and spleen of γ-irradiated mice, compairson with effects of AET and monomers, 21:12773
  effects on aminoacylation of transfer-RNA, 24:13736 (ORNL-4466, pp 41-62)
  effects on carbon-13 exchange between amine carbamates and carbon dioxide, 24:4348 (CU-755-6, Sect.2)
  effects on coprecipitation and spectrophotometric determination of uranium as dibenzoylmethane chelate, 23:26
  effects on decarboxylation of metal trichloroacetates in presence of 1,3-diphenyl-1,3-propanedione, 24:46225
  effects on deuterium exchange of isobutyraldehyde, 21:35966
  effects on distribution of uranyl ions in 2,4-pentanedione—phosphoric acid ester, 22:27894
  effects on extraction of copper-64 or zinc-65 by thenoyltrifluoroacetone, synergistic, 23:26342
  effects on gamma radioinduced polymerization of methyl methacrylate, effects of biphenyl and naphthalene on, 21:19662
  effects on γ radioinduced polymerization of sulfur dioxide with butadiene and its derivatives at low temperature, mechanism of, 23:35139 (TID-24923)
  effects on γ-induced graft polymerization of acrylic or methacrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  effects on γ-radioinduced graft polymerization of cellulose with styrene in methanol solutions, 25:2247
  effects on in vitro potassium cation retention in kidneys and spleen of whole-body γ-irradiated mice, 21:22621
  effects on intermediates produced by gamma radiolysis of 1,2-dibromo-1,1,2,2-tetrafluoroethane—trichlorofluoromethane mixture, spectral studies on, 22:35831 (PRNC-116)
  effects on isotopic exchange reaction between diphenylglyoxime nickel and nickel ions, 21:27949
  effects on photolysis of riboflavin, 21:25835
  effects on polarographic behavior of uranium, 23:7539
  effects on production of water-d$_2$ by electrolysis, 23:31406(P)
  effects on radioinduced cis—trans isomerization of 2-butene, solvent, 23:47548
  effects on retention of manganese-56 recoil atoms in neutron-irradiated solutions of manganese carbonyl compounds, 21:42995
  effects on spectra of zinc complexes with 2-methyl- and 4-methyl-8-quinolinol and 8-quinolinol, solvent, 21:32139 (COO-676-1)
  electrolysis of methyl-substituted, ESR spectra of radicals from, 22:1935 (UCRL-17743)
  electrolysis of, ESR spectra of radicals from, 22:1935 (UCRL-17743)
  electron reactions at 0 to 30 eV with, excitation spectra from, (E), 23:34276 (NP-17938)
  formation constants for, adducts of zinc complexes with 8-quinolinol and 2-methyl- and 4-methyl-8-quinolinol in chloroform, 21:32139 (COO-676-1)
  hydrochloride, chlorine-36 exchange between gaseous hydrogen chloride and, kinetics of, 22:47146
  hyperfine coupling parameters in radical anions of, ESR spectra of nitrogen and proton, 21:30402 (UCRL-17330, pp 1-78)
  mass spectra of, effects of deuterium on, 22:42647(T) (AEC-tr-6937, pp 104-8)
  molecular orbital calculations on, and its radical anion and cation, 22:35831 (PRNC-116)
  radiation effects on deuterated and normal ethanol solutions of, ESR spectra of pyridinyl radicals produced by gamma, 21:25895
  radiation effects on deuterated, ESR study of 2-pyridyl radical from γ, 21:34298
  radiation effects on ethanol solutions of, at 77°K, EPR studies on free radicals produced by, 21:28024
  radiation effects on toluene solutions of, carbon-14 activity distribution in products of, 21:8333
  radiation effects on, effects of iodine additions on free radical formation in gamma, 21:19700
  radiation effects on, effects of iodine additions on free radical formation in γ, 22:8103(T) (AEC-tr-6908, pp 139-44)
  radiation effects on, effects of irradiation time on yields from tritium ion, 24:38948
  radiation effects on, ESR spectral studies on free radical production in gamma, 21:1398
  radiation effects on, ESR study of radicals from γ, 23:2357
  radiation effects on, reactions in γ, 23:9478
  radiolysis at -196°C, effects of iodine on radical formation in, 21:19668
  radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on free radicals produced by γ, 22:27743 (CONF-680423-1)
  radiolysis in 2-methyltetrahydrofuran glass, spectral studies on radical ions produced by γ, 22:35831 (PRNC-116)
  radiolysis in 3-methylpentane glass at 77°K, luminescence studies on γ, 22:35831 (PRNC-116)
  radiolysis in Freon glass mixture, spectral studies on γ, 21:25875(R) (PRNC-99)
  radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428
  radiolysis in tetrahydro-2-methylfuran glass, absorption spectra of radical anions from γ, 24:7453
  radiolysis of aqueous solutions of, activation energies for reactions of hydrated electron in pulse, 23:40733
  radiolysis of derivatives of, in suspensions of bacteria and erythrocytes, effects of nitrous oxide on, 23:35190
  radiolysis of, absorption spectra of transients from pulsed-electron, 21:40892
  radiolysis of, adsorbed on silica gel, ESR spectral studies on γ, 23:17457 (JAERI-5018, pp 51-4)
  radiolysis of, adsorbed on zeolites, EPR study of effects of zeolite cation on, 24:11593
  radiolysis of, effects of nitrous oxide on hydrogen yields in γ, 23:244
  radiolysis of, yields from γ, 21:8383
  radiolysis of, yields of ions and excited states from electron pulse, 25:160
  radiolysis of, yields of products from γ, 25:6365
  radiolysis on silica gel, ESR studies on effects of deuterium on γ, 25:10622 (JAERI-5026, pp 6-10)
  radioprotective effects of, on cells, use of chemiluminescent method to study γ, 24:740
  reactions of, with 2-nitropropane, deuterium isotope effects in proton transfer, 21:1348
  reactions of, with decationated zeolites, spectral studies on, 21:8258
  reactions with 1-chloro-2,4-dinitrobenzene in ethanol, effects of deuterium on kinetics of, 24:25029
  reactions with 1-chloro-2,4-dinitrobenzene, effects of deuterium in solvent on, 22:27711
  reactions with mandelic acid and uranyl nitrate, production of $(C_5H_5N)_2UO_2(O_3C_8H_6)_2$ from, 25:4055
  reactions with methyl iodide, 22:22657(R) (BMI-X-10222)
  reactions with oxygen atoms produced in pulse radiolysis of carbon dioxide or nitrous oxide, absorption spectra of products from, 23:47556
  reactions with p-nitrophenyl methylphosphonate, effects of deuterium on, 24:41264
  reactions with potassium hexachlororhodate, effects of deuterium on catalyzed, 22:10241
  reactions with silver ions, thermometric-titration calculations of enthalpy changes in, 21:40721 (COO-299-2)
  reactions with uranyl chlorides, production of complex compounds in, 22:10215
  separation of deuterated and normal, by gas chromatography using open tubular thick layer graphitized carbon black columns, 22:27874
  solvent properties for alkali metal salts, spectral studies on, 24:9343
  spectra of deuterated and normal, isotope effects in, 22:8052
  spectra of solid, effects of deuterium on ir and Raman, 24:2201
  superconductivity in layered structure of, with tantalum sulfides, 24:28221
  chloroform—pyridine—quinaldic acid, solvent properties for vanadium-48 from deuteron-bombarded titanium, 24:31345
  H_2O—H_2SO_4—pyridine, miscibility in, 24:180 (ORNL-4437, pp 60-86)
  H_2O—pyridine, effects on isotopic exchange reaction between diphenylglyoxime nickel and nickel ions, 21:27949
  H—pyridine, radiolysis of, rate constants and transient spectra in gas-phase reactions of hydrogen atoms from electron pulse, 24:11612
  methanol—pyridine, electron spin resonance spectra of gamma-irradiated, effects of deuterium on, 21:14242
  methanol—pyridine, radiation effects on, at 77°K, ESR studies of, 21:24045
  methanol—pyridine, radiation effects on, ESR measurement of gamma, 21:14242
  picoline—pyridine, radiation effects on toluene solutions of, carbon-14 activity distribution in products of, 21:8333
  pyridine hydrochloride—$ZnCl_2$, electric conductivity, density, and phase equilibria of glass-forming, 24:50273 (COO-2008-2)
PYRIDINE, 2-BENZYL-
  complexes with uranyl nitrate, infrared spectra of, 22:14502
  complexes with uranyl nitrate, luminescence spectra of, 22:33304
  reactions with acetic anhydride, effects of deuterium on, 22:27702
PYRIDINE, 2-(BENZYLAMINO)-
  solvent properties for niobium in presence of thiocyanate, 25:14
PYRIDINE, 2-BROMO-
  complexes with bromine, nuclear quadrupole resonance spectral studies on charge transfer in, 22:18806(R) (COO-1385-21)
PYRIDINE, 2-tert-BUTYL-
  reactions with deuterated and normal 2-nitropropane in presence of iodine, isotope effects and rates for, 21:23874
PYRIDINE, 3-CHLORO-
  1-oxide, deuterium exchange with hydrogen in, 21:17641
  deuterium exchange between, and ammonia and methanol, effects of position on, 21:79
PYRIDINE, 2,3-DIAMINO-
  use in spectrophotometric determination of ruthenium, 23:13642
PYRIDINE, 3,5-DICHLORO-
  1-oxide, deuterium exchange with hydrogen in, 21:17641
  deuterium exchange of, with ammonia and methanol, effects of position on, 21:79
PYRIDINE, 1,2-DIHYDRO-2-IMINO-1-METHYL-
  dithiocarbamate salts of, preparation and radioprotective effects of, 22:28579
PYRIDINE, 1,4-DIHYDRO-1,4,4-TRIMETHYL-
  decomposition of, effects of deuterium on, 22:18785
Pyridine, 2,3-Dihydroxy-
    see 2,3-Pyridinediol
Pyridine, Dimethyl-
    see Lutidine
PYRIDINE, 2-[N-[p-(DIMETHYLAMINO)PHENYL]-FORMIMIDOYL]-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
PYRIDINE, 4-[N-[p-(DIMETHYLAMINO)PHENYL]-FORMIMIDOYL]-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
PYRIDINE, 4-ETHYL-
  effects on extraction of copper or zinc by thenoyltrifluoroacetone, synergistic, 23:26342
PYRIDINE, 2-FLUORO-
  radiation effects on liquid, ESR spectral studies on, 22:18806(R) (COO-1385-21)
Pyridine, Hexahydro-
    see Piperidine
PYRIDINE, IMINODI-
  complexes with copper perchlorate, crystal structure of, 23:213 (IS-1900, Paper 3)
PYRIDINE, 2-MERCAPTO-
  complexes with uranium chloride, preparation and physical properties of, 25:6327
Pyridine, Methyl-
    see Picoline
Pyridine, 2-Methyl-
    see 2-Picoline
Pyridine, 4-Methyl-
    see 4-Picoline
Pyridine-nucleotide Dehydrogenase
    see Reduced NAD Dehydrogenase
PYRIDINE NUCLEOTIDES
    see also Nicotinamide-Adenine Dinucleotide
    see also Nicotinamide-Adenine Dinucleotide Phosphate
  determination of, radiometric method for, 21:1259
  electron scavenging by, in irradiated serum albumin and trypsin, 21:378
  radiation effects on content in rat liver, whole-body x, 21:22292
  radiation effects on content in rat liver, x, 21:22770
  radiation effects on content of, in Escherichia coli, uv, 25:46713
  radiation effects on excretion of metabolic products of, by rats, effects of dose on x, 23:22222
PYRIDINE-1-OXIDE
  chemistry of, bio- and photo-, 24:43925 (UCRL-20037)
  complexes with rare earth and yttrium nitrates, precipitation and solubility of, 22:33360
  complexes with thorium, titanyl, and zirconyl perchlorates, physicochemical properties and structure of, 23:33199
  deuterium exchange at annular positions of, mechanism of base-catalyzed, 22:50961
  electrolysis of, ESR spectra of radicals from, 22:1935 (UCRL-17743)
  spectra of, effects of deuterium on ir, 25:2163
PYRIDINE, 4-(N-PHENYLFORMIMIDOYL)-
  complexes with thorium, tin, and titanium, preparation and structure of, 22:8076
PYRIDINE, 2,4,6-TRIMETHYL-
  effects on spectra of zinc complexes with 4-methyl-8-quinolinol and 8-quinolinol, solvent, 21:32139 (COO-676-1)
  formation constants for, adducts of zinc complexes with 2-methyl- and 4-methyl-8-quinolinol and 8-quinolinol in chloroform, 21:32139 (COO-676-1)
  polymers, properties of dynamically formed membranes of, for separating salts from sodium chloride solutions, 21:24068 (ORNL-P-2961)
  reactions with deuterated and normal 2-nitropropane in presence of iodine, isotope effects and rates for, 21:23874
  tritium exchange between 2-nitropropane and, 22:40070
PYRIDINE, VINYL-
  complexes with metal salts, radiation effects on, ESR study of free radicals from γ or electron pulse, 23:37982
  photochemical grafting of gaseous, to polyamide fibers, kinetics and mechanism of uv, 22:14543
  polymers, radiation effects on unsaturation in, spectral studies on γ, 21:42965(R) (ORO-2418-3)
  radiation effects on properties of AB-23M x 7 ion exchangers of, internal α, 24:38951
  radiochemical grafting of gaseous, to polyamide fibers, kinetics and mechanism of γ, 22:14543
  radioinduced polymerization on poly(vinyl alcohol), γ, 24:25075
  radioinduced polymerization with trichlorovinyl-p-benzoquinone, 23:43336 (COO-1043-3)

PYRIDINE, 2-VINYL-
  effects on γ-induced graft polymerization of acrylic or methacrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  polymers, radiation effects on molecular structure of, ir spectral studies on mechanism of γ, 24:22671(R) (ORO-2418-7)
  radioinduced graft polymerization with cellulose, effects of water vapor on products of, 22:21115
  radioinduced graft polymerization with polyethylene terephthalate, properties of products of γ, 23:17450 (JAERI-5018, pp 5-14)
  radioinduced graft polymerization with polyethylene terephthalate, effects of inorganic and organic acids and monomers on γ, 23:17450 (JAERI-5018, pp 5-14)
  radioinduced grafting on cellulose in various solvents, γ, 23:4660
  radioinduced grafting to cellulose in methanol solutions, γ, 21:27972
  radioinduced grafting to cellulose, effects of methanol, solvents, and oxygen on, 22:33434
  radioinduced polymerization of, kinetics of γ, 25:130(R) (ORO-2968-56)
  radioinduced polymerization of, with sulfur dioxide at -20 to 75°C, γ, 22:4193
  radiolysis of, adsorbed on silica gel, ESR spectral studies on γ, 23:17457 (JAERI-5018, pp 51-4)
PYRIDINE, 4-VINYL-
  effects on γ-induced graft polymerization of acrylic or methacrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  polymers, ion exchange properties of dynamically formed membranes of, for magnesium and sodium salts, desalination studies on, 21:45087 (ORNL-4164, pp 57-82)
  radiation effects on subsequent polymerization with polypropylene, 22:51031
  radiation effects on subsequent polymerization with cellulose, 25:37418
  radioinduced graft polymerization on polytetrafluoroethylene, effects of poly(acrylic acid) chains on, 24:13955
  radioinduced graft polymerization onto polyethylene terephthalate fibers, 24:18999
  radioinduced graft polymerization with poly(ethylene terephthalate), viscoelastic properties of products from γ, 24:11568 (JAERI-5022, pp 94-7)
  radioinduced graft polymerization with polyethylene terephthalate, effects of inorganic and organic acids and monomers on γ, 23:17450 (JAERI-5018, pp 5-14)
  radioinduced graft polymerization with polyethylene terephthalate, properties of products of γ, 23:17450 (JAERI-5018, pp 5-14)
  radioinduced graft polymerization with Teflon, properties of products of γ, 22:40146
  radioinduced grafting of, to polyvinyl chloride fibers, γ, 21:8374
  radioinduced grafting on cellulose in various solvents, γ, 23:4660
  radioinduced grafting on polyester fibers and textiles, 24:16554
  radioinduced grafting to cellulose in methanol solutions, γ, 21:27972
  radioinduced grafting to cellulose, effects of methanol, solvents, and oxygen on, 22:33434
  radioinduced polymerization of, with sulfur dioxide at -20 to 75°C, γ, 22:4193
  radioinduced polymerization on surface of synthetic calcium aluminate hydrate,, 25:10616
  radioinduced polymerization with poly(ethylene terephthalate), γ, 21:24022
  radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428
  radiolysis of, adsorbed on silica gel, ESR spectral studies on γ, 23:17457 (JAERI-5018, pp 51-4)
  acrylic acid—4-vinylpyridine, radioinduced graft polymerization with polyethylene terephthalate fibers, effects of drawing and heat treatment on mechanical and thermal properties of products from γ, 24:31375
  acrylic acid—divinylbenzene—vinylpyridine, sorptive properties of copolymer of, for gold and silver ions, 22:45059
  acrylonitrile—divinylbenzene—vinylpyridine, sorptive properties of copolymer of, for gold and silver ions, 22:45059
  methylenesuccinic acid—4-vinylpyridine, radioinduced graft polymerization on polyacrylonitrile, polyamide, and poly(ethylene terephthalate), effects of temperature on γ, 24:22693
  poly(ethylene terephthalate)—poly(4-vinylpyridine), viscoelastic properties of γ-radioinduced, 24:11568 (JAERI-5022, pp 94-7)
  styrene—4-vinylpyridine, radioinduced graft polymerization with polyethylene, composition of side chains in γ, 21:30444 (TID-23839)
PYRIDINE, VINYL-, POLYMERS
  radiation effects on infrared spectra of, 22:14518(R) (ORO-2418-4)
  radiation effects on, γ, 22:4192
  radioinduced crosslinking at low temperature of, study of ionic processes in γ, 23:253
PYRIDINEACETIC ACID
  complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
Pyridine-2-aldehyde
  see Pyridinecarboxaldehyde
PYRIDINECARBOXALDEHYDE
  complexes with uranium tetrachloride, preparation and characterization of, 23:6111
  hydration of, effects of deuterium in solvent on, 23:35119
  oxime, complexes with thorium, ultraviolet and infrared spectra of, 21:3054
  reactions with acetic acid, effects of deuterium on 2,2'-pyridoin formation in, 21:35961
2-Pyridinecarboxylic Acid
  see Picolinic Acid
3-Pyridinecarboxylic Acid
  see Nicotinic Acid
2,5-PYRIDINEDICARBOXYLIC ACID
  preparation of monoesters of, 25:51352(T) (UCRL-Trans-1452)
2,6-Pyridinedicarboxylic Acid
  see Dipicolinic Acid
3,4-PYRIDINEDIMETHANOL, 5-MERCAPTO-6-METHYL-
  effects on ultrastructure of crypt cells in mouse duodenum, effects of thiol-blocking agents on, 25:42520
2,3-PYRIDINEDIOL
  complexes with divalent metals, rare earths, and uranium, stability constants for, 25:118
3-PYRIDINEMETHANOL
  radioprotective effects of, on facial bones of rats, x, 23:43799
4-PYRIDINEMETHANOL, 3-HYDROXY-5-(MERCAPTOMETHYL)-2-METHYL-
  use for protection against radiation and nitrogen mustard gas, 21:10901
2-PYRIDINETHIOL
  effects on yields from γ-radiolysis of aqueous solutions of acetone or 2-propanol, 23:9422(R) (NYO-2499-26)
PYRIDINIUM COMPOUNDS
  1,2-dimethyl-5-vinylpyridinium methyl sulfate, radioinduced polymerization of, γ, 23:24243
  1-hexadecylpyridinium bromide, effects on Streptococcus faecalis, protective effects of γ radiation against, 25:44979
  1-methyl-4-formylpyridinium iodide, reactions with alanine, deuterium isotope effects on, 22:30522
  4-ethylpyridinum tetrabromoferrate, crystal structure of, 24:53043 (IS-T-397)
  cetylpyridinium bromide, complexes with various metals and pyrocatechol, 22:48906
  cetylpyridinium bromide, use in spectrophotometric determination of rare earths in alkaline medium, 22:40000
  cetylpyridinium chloride, reactions with glycosaminoglycans, pulse radiolytic and spectral studies of, 23:35238
  hexadecyl pyridinium chloride, effects on yeast cells, protective effects of thorium and uranyl ions against lytic, 22:10730
  N-methylpyridinium carboxylates, decarboxylation of, 22:50961
  N-methylpyridinium chloride, deuterium exchange at annular positions of, mechanism of base-catalyzed, 22:50961
  N-substituted 3-carbamoyl, reactions with cyanide ions, kinetics of, 23:45252
  properties of pyridinium oxychlorouranate, 25:54541
  reactions of ions of, with hydrated electrons, activation energy for, 22:23034 (IA-1128, pp 78-96)
  reactions with hydrated electrons, effects of polyanions on, 22:42783
  spectra of, effects of deuterium on infrared and Raman, 23:35088
3-PYRIDINOL, 2-AMINO-
  complexes with uranium tetrachloride, preparation and characterization of, 23:6111
3-PYRIDINOL, 4,5-BIS(HYDROXYMETHYL)-2-METHYL-
  radioprotective effects against DNA inactivation by radical reaction inhibition, 21:36515
3-PYRIDINOL, 2,6-DIMETHYL-4-(DIMETHYLAMINO)METHYL-
  radioprotective effects against DNA inactivation, 21:36515
3-PYRIDINOL, 2-ETHYL-6-METHYL-
  hydrochloride, radioprotective effects against radical reactions in lactate dehydrogenase, γ, 21:36514
  radioprotective effects of, against DNA inactivation by radical reaction inhibition, 21:36515
3-PYRIDINOL, 2,4,6-TRIMETHYL-
  use for protection against alkylating agents and ionizing radiation, 21:12950
2H-PYRIDO[4,3-b]INDOLE
  radioprotective effects of, on skin of rabbits, β, 22:21543
2-PYRIDONE
  radiation effects on metabolism of, in mice and rats, mechanisms for, 25:42623
2-PYRIDONE, 1-METHYL-
  reactions with 1,3-cyclohexadien-5-yne, products of, 22:18801
PYRIDOXAL
  hydrochloride, dissociation constants of, 25:48508
  radioprotective effects on collagen gel, x, 25:26802
  reactions with amines and amino acids in methanol solutions, 21:24067 (NIRS-5, pp 10-16)
  reactions with uranyl ions, spectrophotometric studies on, 25:48508
PYRIDOXAL 5-PHOSPHATE
  isonicotylhydrazine, radiation effects on, effects of, on activity of decarboxylases, uv, 24:4564
  radiation effects on activity of, in human erythrocytes following tumor therapy, studies on, for determining vitamin B$_6$ deficiency, 24:34108
  radiation effects on metabolism of, 21:16273
  radiation effects on, effects of, on activity of decarboxylases, uv, 24:4564
  radiation effects on, in mammalian tissues, x, 22:19383
  radioinduced degradation of, effects of nitrogen, nitrous oxide, and oxygen on x, 21:10773
  radioprotective effects of intravenous injections of, on survival of rats, effects of dose and time of administration on whole-body x, 22:31137
  radioprotective effects of, on skin, uv, 22:49393
  radioprotective effects on mitosis in cultured human kidney cells, x, 25:49294
  reaction with homocystine to yield 2-(2-methyl-3-hydroxy-5-phosphorylhydroxymethyl-4-pyridyl)-tetrahydro-1,3-thiazine-4-carboxylic acid, 23:141(P)
PYRIDOXOL
  see also B6 under Vitamin B Group
2-PYRIDYL KETONE
  complexes with uranium tetrachloride, preparation and characterization of, 23:6111
PYRIMETHAMINE
  use for therapy of actinomycosis following radiotherapy of cervical carcinoma in man, 21:6554
PYRIMIDINE
  content of DNA in DNA-cysteamine system, effects of, on γ-radioinduced transfer of free radicals from DNA to cysteamine, combined effects of cysteamine content and pH on, 24:46580
  deuterium exchange between aromatic C—H bonds of, 21:35977
  deuterium exchange between deuteriomethanol—sodium methoxide and, 23:45292
  deuterium exchange with C-methyl protons in substituted, PMR spectral studies on, 22:6303
  dithiocarbamate, radioprotective effects on mice, 22:28579
  effects of dimers of, on recovery of uv-irradiated Escherichia coli mutant, 25:55360
  effects on free radical formation in uv-irradiated alcohol, 23:43699
  effects on germination of sugarbeet seeds, 25:4722
  effects on intermediates produced by gamma radiolysis of 1,2-dibromo-1,1,2,2-tetrafluoroethane—trichlorofluoromethane mixture, spectral studies on, 22:35831 (PRNC-116)
  effects on radiosensitivity of cultured mammalian cells, halogenated, 21:45838
  effects on reproductive capacity of female insects, 22:45744
  excision of dimers of, from DNA of uv-irradiated skin cells of man, effects of xeroderma pigmentosum affliction on, 24:32259
  excision of uv-radioinduced dimers of, in Escherichia coli mutants deficient in DNA polymerase, 24:48506
  hyperfine coupling parameters in radical anions of nitrogen and proton, ESR spectra of, 21:30402 (UCRL-17330, pp 1-78)
  incorporation of halogenated analogues of, into DNA, effects of, on radiosensitivity of cells, 25:4537
  molecular orbital calculations on, and its radical anion and cation, 22:35831 (PRNC-116)
  photoinduced production of dimers of, from enzymatic hydrolysates of DNA, 25:32358 (COO-1793-4)
  photolysis of liquid, 21:23978
  radiation effects on aerated and aqueous solutions of, γ, 24:232
  radiation effects on ethanol solutions of, at 77°K, EPR studies on free radicals produced by, 21:28024
  radiation effects on excision of dimers of, from DNA, effects of bacterial extracts on uv, 22:28288 (ORNL-4100, pp 166-77)
  radiation effects on incorporation of, into cells of mammals, stimulating uv, 24:6001
  radiation effects on molecular structure of, uv, 21:14629
  radiation effects on production of dimers of, in DNA of Paramecium aurelia, effects of dark- and photoreactivation on uv, 23:2795
  radioinduced dimer of, in Escherichia coli, role of recombinational repair in mutation production, 24:34260
  radioinduced dimerization of, from DNA, effects of copper on uv, 24:23115
  radioinduced dimerization of, in human fibroblasts, role of enzymes in repair of uv, 24:23121
  radioinduced dimerization of, in polynucleotides of TMV in relation to formation of hydrates, 25:46729
  radioinduced dimers of, in cultured human cells, of uv, 22:51957
  radioinduced dimers of, in Escherichia coli, effects of, on genetic recombination, 24:31934
  radioinduced dimers of, in excision-repair deficient Escherichia coli, persistence of, uv, 22:33792
  radioinduced dimers of, in mammalian cells in relation to DNA synthesis, mathematic model for, 25:37858
  radioinduced dimers of, in mammalian cells, repair of uv, 23:33836 (UCSF-10-P-2-78)
  radioinduced dimers of, in mammalian cells, repair by excision, low dose uv, 24:19298(R) (COO-1704-15)
  radioinduced dimers of, in poly T, uv, 22:28288 (ORNL-4100, pp 166-77)
  radioinduced dimers of, in radiosensitive mutants of Micrococcus radiodurans, excision of uv, 23:33678
  radioinduced dimers of, repair of uv, 22:49223
  radioinduced excision of dimers of, from DNA of cattle and human xeroderma pigmentosum cells, effects of dose on uv, 25:46709 (UCSF-10-P-2-136)
  radioinduced formation of dimers of, in Tetrahymena, uv, 23:35657
  radioinduced peroxides of, in Paramecium caudatum, toxicity of, 22:51983
  radioinduced production of dimers of, in Tetrahymena, uv, 22:51441
  radiolysis in Freon glass mixture, spectral studies on γ, 21:25875(R) (PRNC-99)
  radiolysis in tetrahydro-2-methylfuran glass, absorption spectra of radical anions from γ, 24:7453
  radiolysis of, γ, 21:23978
  role of dimerization of, in photoreactivation, 24:31844(R) (UCB-34-P-116-X-8)
  role of dimers of, in radioinduced mutants, 24:14463
  separation of derivatives of, by liquid chromatography, 21:45194(R) (COO-499-16)
  spectra of deuterium-labeled gaseous, liquid, and solid, ir, 21:3073
  tritium exchange in aqueous solutions, effects of position of labeling on, 22:27699
PYRIMIDINE, AMINO-
  preparation of sulfur derivatives of, for potential as radioprotective agents, 25:32445

  reactions with hydrated electrons, activation energy for, 22:23034 (IA-1128, pp 78-96)
Pyrimidine, 2,4-Diamino-5-(p-chlorophenyl)-6-ethyl-
  see Pyrimethamine
PYRIMIDINE, DIHYDRO-
  solubility in water, fate of radicals in, 21:45500(R) (NYO-3799-1)
PYRIMIDINE HYDROPEROXIDE
  radioinduced in Paramecium caudatum, toxic effects of, 22:51983
5-PYRIMIDINEACETIC ACID, 6-METHYL-4-OXO-2-THIO-, ETHYL ESTER
  radiation effects on stability of molecules of, γ, 24: 36266 (CEA-R-3962)
5-PYRIMIDINECARBONITRILE, 4-HYDROXY-2-MERCAPTO-
  radiation effects on stability of molecules of, γ, 24: 36266 (CEA-R-3962)
5-PYRIMIDINECARBOXALDEHYDE, 1,2,3,4-TETRAHYDRO-2,4-DIOXO-
  phosphate, formation by uv irradiation of mono- and diphosphates of pseudouridine, 21:17994
5-PYRIMIDINECARBOXYLIC ACID, 4-AMINO-2-MERCAPTO-, ETHYL ESTER
  radiation effects on stability of molecules of, γ, 24: 36266 (CEA-R-3962)
PYRIMIDINES
  (Substituted pyrimidines found in nucleic acids)
  see also Cytosine
  see also Thymine
  see also Uracil
  determination of, for growth of auxotrophic strains of E. coli, methods and procedures for, 21:10817
  dimerization in uv-irradiated DNA of bacteria, 24:48404
  dimers of, effect of excision of, on formation of breaks in bacterial DNA, 21:8678 (ORNL-3999, pp 166-75)
  dimers of, excision of, from uv irradiated DNA in vitro, 21:8714
  dimers of, losses of, from bacterial DNA following phage infection, 21:8678 (ORNL-3999, pp 166-75)
  dimers of, review of mechanism of excision of, 21:45504 (ORNL-P-3324)
  effects of dimers of, on inhibition and recovery of DNA synthesis in uv-irradiated cultured mammalian cells, 25:49114
  effects of halogenated, on radiosensitivity of tumor cells, 21:20272
  effects of tritium decay on, 21:26330(R) (N-67-11851)
  effects of, on uv radiosensitivity of human skin, review of, 21:14757
  effects of, on uv-induced inactivation of DNA, 21:14605
  effects on phosphorus-32 uptake by nucleotides of thymus nuclei, 24:46562
  effects on x-radiosensitivity of flour beetle, 23:6545
  electrolysis of, ESR spectra of radicals from, 22:1935 (UCRL-17743)
  formation in early solar system by catalytic synthesis, (E/T), 25:58575
  formation in early solar system by catalytic synthesis, (E/T), 25:58576
  linear sequence of, in relation to structure of RNA, 23: 9361 (UCRL-18216, pp 45-80)
  photochemical reactions in, mechanisms of, 22:23409(R) (NYO-2798-32)
  photochemistry of, in nucleic acids, review of, 21:12771
  photoreactivation of dimers of, in DNA of Paramecium aurelia, 22:28399 (ORNL-4100, pp 40-7)
  radiation effects of dimers of, in DNA of Ginkgo cells, effects of postexposure to 3600 A on uv, 23:22202
  radiation effects on composition of, in messenger RNA in Escherichia coli, uv, 23:38490
  radiation effects on content of acid-soluble deoxy-, in nucleated blood clot cells in rabbits and rats, effects of dose on, 24:7746
  radiation effects on content of, in human urine following therapy of pulmonary carcinoma, 23:20289
  radiation effects on excision of dimers of, in Escherichia coli, combined alpha and uv, 23:17911
  radiation effects on excretion of deoxy-, by rats, use of, for calculating absorbed dose, γ neutron, x, 24:6035
  radiation effects on ratio of, to purines in guinea pigs, x, 21:6447
  radiation effects on ratio of, with purines in RNA of cotton seeds, γ, 21:34586
  radiation effects on residues of, aminoacyl synthetase recognition in Escherichia coli following uv, 25:13364
  radiation effects on, effects of phosphoric acid residues on γ, 22:33770
  radiation effects on, ESR studies on, 23:13786
  radiation effects on, mechanisms of, 22:40123
  radiation effects on, of nucleic acids, effects of oxygen on, 21:45531
  radiation effects on, review of mechanism of uv, 24: 50717
  radiation effects on, uv and x, 21:8701
  radioinduced degradation of, relation between lesions induced in DNA and γ, 25:51990 (A/CONF.49/P-633)
  radioinduced destruction of, effects of chloride ion on, 23:26687 (UCLA-12-706, pp 45-72)
  radioinduced destruction of, in DNA, γ, 23:7956
  radioinduced dimer production of, in relation to Escherichia coli mutagenesis, uv, 23:6411
  radioinduced dimerization of, in DNA of Paramecium, photoreactivation of uv, 22:8445
  radioinduced dimerization of, in human fibroblasts, dose dependence of uv, 25:24041 (UCSF-10-P-2-129)
  radioinduced dimerization of, in RNA of tobacco mosaic virus, effects of methanol, proflavin, salt, and temperature on uv, 21:28400
  radioinduced dimers of, in cultured plant cells, uv, 23: 6395
  radioinduced dimers of, in DNA of Escherichia coli in relation to mutagenesis, uv, 22:23457
  radioinduced dimers of, in DNA of plant cells in vitro, photoreactivation of uv, 23:29344(R) (COO-1704-6)
  radioinduced dimers of, in lambda bacteriophage, uv, 24: 39434
  radioinduced dimers of, in lambda phage DNA, effects of genotype of Escherichia coli repair of uv, 24:6153
  radioinduced dimers of, mechanisms for excision of uv, 21:45504 (ORNL-P-3324)
  radioinduced dimers of, repair of, 21:22398
  radioinduced formation of anions in frozen solutions of, effects of light and increasing temperature on γ, 24: 48413
  radioinduced formation of cyclobutyl dimers of, in DNA of Escherichia coli, protective effects of acridine dyes against uv, 24:2719
  radioinduced formation of dimers and hydrates in, effects of complexing with purines on uv, 22:25791
  radioinduced increase in content of, in rat plasma and urine, whole-body x, 23:7946
  radioinduced production of free radicals in, ESR studies on γ, 24:11621
  radiolysis of aqueous solutions of, γ, 25:6342 (UCRL-19530, pp 309-14)
  radiolysis of aqueous solutions of, in presence of chloride ions, γ, 22:33718 (UCLA-12-640, pp 61-80)
  radiolysis of aqueous solutions of, mechanisms of pulsed-electron, 23:9420(R) (GA-8872)
  radiolysis of aqueous solutions of, optical absorption spectra of ketyl radicals and radical anions from pulse, 24:9364
  radiolysis of aqueous solutions of, reaction kinetics of, 23:35158
  radiolysis of tritium-labeled, self-, 25:161
  radiolysis of, effects of chloride ions on, 23:9844 (UCLA-12-686, pp 67-84)
  radiolysis of, in DNA, x, 23:6383
  radiolysis of, isolation and structure of products of γ, 25:51990 (A/CONF.49/P-633)
  radiolysis of, rate constants for hydrogen atom reactions following electron, 25:55132
  reaction with OH free radicals, determination by pulse radiolysis, 23:26687 (UCLA-12-706, pp 45-72)
  reactions of hydroxy radicals with, 21:10724(R) (NP-16209)
  reactions with electrons, mechanism of, 24:39426(R) (AI-AEC-12974)
  reactions with hydrogen atoms in relation to DNA, 23: 50331 (AI-AEC-Memo-12861)
  reactions with radiolytic hydroxyl radicals and hydrated electrons, 23:47531
  separation of nucleotide, in DNA, method using chromatography and electrophoresis, 23:45655
  spectra of anions of, ESR, 23:21726 (AI-AEC-12744, pp 159-61)
  spectra of, effects of deuterium ion concentration on NMR, 22:28309
  stability of tritium-labeled, conference on, 22:45380 (EUR-3290)
  stability of tritium-labeled, in metabolic processes, 22: 51461
  structure of deuterochlorides of 4-substituted, NMR studies on, 22:18801
  synthesis of primordial, 22:33734
  tritium exchange in, effects of pH and temperature on, 25:161
PYRIMIDINOL
  deuterium exchange with C-methyl protons in substituted, PMR spectral studies on, 22:6303
4-Pyrimidinol, 2-Amino-
  see Isocytosine
PYRIMIDINONE
  deuterium exchange between H-2 in 4-substituted, NMR studies on kinetics of, 22:18801
  deuterium exchange between, and heavy water, 21: 19647
  deuterium exchange with C-methyl protons in substituted, PMR spectral studies on, 22:6303
  structure of deuterochlorides of 4-substituted, NMR studies on, 22:18801
PYRIMIDINTHIONES
  deuterium exchange between H-2 in 4-substituted, NMR studies on kinetics of, 22:18801
  deuterium exchange between, and heavy water, 21: 19647
PYRITES
  analysis for cobalt by neutron activation and spectrometry, 25:57386
  analysis for gold and silver, development of methods for, 23:40887(R) (NP-17982)
  analysis for gold by neutron activation and radiochemical separation, 25:10490(T) (LIB/Trans-334)
  analysis for trace elements by neutron activation and γ spectrometry, 23:35043
  analysis for trace elements by spark-source mass spectrography, 24:5596
  analysis of Luzon, Philippines, for trace elements by neutron activation, 25:41772
  analysis of smelter slag from, for chromium, aluminum, and silicon by neutron activation and γ spectrometry, 24:157
  analysis of, for gold by activation methods and ion exchange with mercury, 21:1276
  content in neogene sediments of Niigata Prefecture, Japan, 22:51118
  iron-57 Moessbauer effect in, 23:23046
  labeling with iridium-192, method for, 23:29099
  Moessbauer spectra of, 24:50347(R) (NYO-844-81)
  oxidation by bacteria, in finely milled ores deposited on slimes dams, 25:23675
  oxidation of, effects on formation of roll-type uranium deposits, 23:21832
  sulfur-32/-34 ratio in, from Rammelsberg ore deposits, 21:8438
  sulfur-34 concentration in, by crystallization from alkaline solution at 500°K, 23:45380
  uranium content of, radiographic measurements of, 25: 29231
  use of, for precipitation of hexavalent uranium from hydrothermal solutions, 21:10326
PYRITHIAMINE
  effects on metabolism of calcium and strontium in Tetrahymena, 22:40515 (NYO-1822-25)
PYROCATECHOL
  amine derivatives of, binding of, to specific protein components of plasma, 21:6414
  amine derivatives of, radiation effects on content of, in blood of rabbits, combined effects of radial acceleration on x, 24:7733
  amine derivatives of, radiation effects on release of, from adrenal medullary granules of cattle, x, 23:47974
  amine derivatives of, radioprotective effects of, in mice, mechanisms for, 23:50616
  amine derivatives, metabolism in sympathetic ganglia of x-irradiated rats, 21:18157
  amine derivatives, radiation effects on content of, in animal adrenal glands, protective effects of unithiol against x, 25:39915
  amine derivatives, radiation effects on content of, in adrenal glands of mice, effects of diethylstilbestrol on x, 22:19377
  amine derivatives, radiation effects on metabolism of, in mammals, ionizing, 22:16979
  amine derivatives, radioinduced release of, from perfused bovine adrenal glands, x, 23:41249
  amino derivatives, determination of, review on radioisotopic methods for in vitro, 24:38761
  benzeneboronate, radioinduced decomposition of, methods for determining degree of, 23:49869
  complexes with molybdenum or antimony and surface-active agents, formation of, 23:6078
  complexes with uranium and EDTA or NTA, formation of, 21:27962
  complexes with uranyl ion, polymerization of, 23:49804
  complexes with uranyl ion, stability of, 23:49804
  complexes with various metals and quaternary salts, 22: 48906
  complexes with yttrium and EDTA or HEDTA in aqueous solutions, stability constants for, 24:27063
  effects on chromosomes in onion root cells, aberrant, 24:7807
  effects on radiosensitivity of sarcomas, 24:34408
  properties as secondary ligand in uranium(IV) chelates, 21:35978
  radiation effects on content of amine of, in organs of animals, β and γ, 24:44596
  radiation effects on content of mouse tissues, effects of cystamine and mexamine on, 25:27017
  radiation effects on content of, in animal adrenal glands, protective effects of unithiol against x, 25:39915
  radiation effects on content of, in brain and muscles of adrenalectomized mice, neutron and x, 22:51944
  radiation effects on excretion of, in rat urine, sublethal x, 24:50754
  radiation effects on metabolism of amine derivatives of, in rabbits as indicator of radiation injury, x, 25:42627
  reactions with hydrogen peroxide, use in volumetric determination of metals, 21:21892
  reactions with polyvinyl acetate radicals, kinetics of deuterium isotopic exchange in, 22:25353
  sodium salt, complexes with EDTA and thorium(IV), stability constants of, 25:6330
  use in absorptiometric determination of molybdenum, 23:2193
  use in spectrophotometric determination of molybdenum and tungsten in solution with Complexon III, 22: 48821
  use of derivatives of, in determination of niobium and tantalum, 23:11406
  uses in spectrophotometric determination of zirconium in iron and steel, 25:28
  uses of, in determination of rare earths, 21:26
  H_3AsO_4—pyrocatechol, effects on solvent properties of nitrobenzene for cesium, 24:41191
PYROCATECHOL, ALKYL-
  effects on stability of γ-irradiated polypropylene, 23: 4665
Pyrocatechol, 4-(2-Aminoethyl)-
  see Dopamine
PYROCATECHOL, tert-BUTYL-
  effects on γ radioinduced polymerization of sulfur dioxide with butadiene and its derivatives at low temperature, mechanism of, 23:35139 (TID-24923)
PYROCATECHOL, 4-METHYL-
  radiolysis of, yields from γ, 23:43336 (COO-1043-3)
PYROCATECHOL, 4-NITRO-
  complexes with uranyl ions, preparation and stability of, 21:21940
PYROCATECHOL VIOLET
  complexes with molybdenum, separation by solvent extraction using dialkylmethylbenzylammonium chloride, 24:16435
  interactions with zirconium(IV) in presence of Complexon III, 22:27579
PYROCHLORES
  radiation effects on flotation behavior of, beta, 22:42796
  separation of nickel—niobium alloy from, by molten salt electrolysis, 24:984
  separation of niobium as oxide from, 25:54741
PYROGALLOL
  effects on yields of ethylene glycol in γ radiolysis of methanol solutions containing nitrous oxide, 23:43342
  use in photometric determination of tantalum in sulfuric acid solutions, 23:29
  use in spectrophotometric determination of niobium in platinum—niobium alloys, 23:26167
  H_2SO_4—pyrogallol, use as chelating agent in solvent extraction of niobium from acid solution using tributyl phosphate, 21:24097
Pyrogallic Acid
  see Pyrogallol
PYROGALLOL, NITRO-
  radiolysis of aqueous solutions of, yields of 2,3,4,5-tetrahydroxynitrobenzene in γ, 22:14536
PYROGALLOL RED
  properties as chromogenic reagent for uranium, 24: 41192

Pyrohydrolytic Analysis
  see Analytical Chemistry
Pyrolytic Carbon
  see Carbon
PYROMELLITIC ACID
  use in complexonometric determination of barium in presence of calcium, magnesium, and strontium, 22:16430
Pyrometallurgical Processes
  see High Temperature Separation Processes
PYROMETERS
  see also Thermocouples
  see also Thermometers
  calibration of infrared, 25:3989 (UCRL-19665)
  design and operation for determining thermal properties of ceramic fuels, 22:19649(R) (NUMEC-3505-30)
  design and performance of high-temperature microwave, for advanced reactors, 25:15967 (WHAN-SA-24)
  design and performance of photometric, for temperature measurements in liquid sodium, 22:36453 (LMEC-Memo-68-10)
  design and performance of ratio, for use in Q-machines, 24:16930
  design based on Nyquist noise theorem for in-core use, 25:55077(T) (LA-tr-71-71)
  design for determination of high temperature phase diagrams, 22:35981
  design for measurement of molten steel surfaces in electron-beam furnace, 22:19468(T) (UCRL-Trans-10215)
  design for measuring temperatures on extruded metal surfaces, 25:29787(R) (RMI-16)
  design of optical, for differential thermal analysis of refractory plutonium compounds, 23:35546 (LA-4103)
  design of photoelectric, for measurement of temperature of tungsten, 22:31358
  design of radiation, for in-core measurements, 25:15978(P)
  design of thermoelectric, 25:57761(P)
  development of radiation, for titanium alloys, 24:523
  performance in reactors, 21:5708
  performance of modulating, for plasma temperature measurements, 21:20930
  use for determining temperature of uranium tubes during formation by extrusion process, 21:16572(R) (RMI-6)
  use of optical, in measuring thermal diffusivity in materials, 25:22089
PYROMETRY
  see also Thermometry
PYROMORPHITES
  see also Apatites
PYRONINE
  radiation effects on staining reactions of amoebae to, effects of dose on x, 22:49189
  use with methyl green for staining of nucleic acids, 21:34708
PYROPHOSPHATES
  see also Calcium Pyrophosphates
  see also Cesium Pyrophosphates
  see also Germanium Pyrophosphates
  see also Lithium Pyrophosphates
  see also Potassium Pyrophosphates
  see also Sodium Pyrophosphates
  see also Strontium Pyrophosphates
  see also Thorium Pyrophosphates
  see also Uranium Pyrophosphates
  see also Uranyl Pyrophosphates
  see also Zirconium Pyrophosphates
  crystal structure, 21:17318(R) (AECL-2659)
  radiation effects on content of, in wheat seeds, effects of dose on, 21:34611
  radiation effects on, paper chromatographic separation of recoil products from thermal-neutron, 25:21074
  radiation effects on, paper electrophoresis separation of recoil products from neutron, 25:21073
  radiolysis of aqueous solutions of, effects of nitrous oxide and oxygen on electron pulse, 24:41360
  separation from meta- and orthophosphates, paper chromatographic, 25:10687
  use of potassium-32-labeled, for study of phosphate uptake by ATP in Mycobacterium tuberculosis, 22:40524
  use of, in oligo- and polynucleotide synthesis by DNA nucleotidyltransferase reaction, 21:12951(R) (LA-3610)
PYROPHOSPHORAMIDE, OCTAMETHYL-
  complexes with molybdenum, thorium, and uranyl ions, preparation and properties of, 21:35949
  complexes with rare earths, preparation of, 22:30468
  use in spectrochemical determination of rare earths, 22:30468
PYROPHOSPHORIC ACID
  chemical composition of normal and phosphorus-32-labeled, in aqueous solutions, effects of acidity, dilution, and temperature on, 21:4486 (INR-726/XIII/C)
PYROPHOSPHORIC ACID, BIS(2-ETHYLHEXYL) ESTER
  radiation effects on reactivity of melanocytes in human skin to, effects of age on uv, 23:29860
  solvent properties for actinides, 21:39003 (UCRL-14494)
PYROPHOSPHORIC ACID, ETHYL ESTER
  radiation effects on tensile strength of surgical sutures made of, 23:3001
PYROPHOSPHORIC ACID, TETRABUTYL ESTER
  complexes with uranyl nitrate, spectral studies on, 22:27853 (INP-591/C)
  solvation energy of aqueous uranyl chloride in, use of plutonium-239 electrode for measuring, 22:23010
  solvent properties for neptunium, plutonium, and uranium ions, 21:15986
  solvent properties for uranium, 21:1416 (INP-490/C)
  solvent properties of, for uranium in nitric acid, mechanism of, 21:10432
  HCl—tetrabutyl hypophosphate—tetrabutyl pyrophosphate, solvent properties for molybdenum-99 and technetium-99m, 23:370
  HNO_3—tetrabutyl hypophosphate—tetrabutyl pyrophosphate, solvent properties for rare earths and transuranium elements, 22:27853 (INP-591/C)
PYROSULFITES
  see also Potassium Pyrosulfites
  see also Sodium Pyrosulfites
PYROSULFURIC ACID
  dissociation of, titrimetric studies on, using deuterated and normal oleum solutions containing potassium acid sulfate, 21:8257
Pyrotrons
  see Magnetic Mirror Machines
PYROXENES
  age estimation for, using argon-potassium ratio, 21:21963 (BNL-994, pp 3-19)
  analysis for argon, helium, and neon isotopes, mass spectrometric, 21:21963 (BNL-994, pp 3-19)
  analysis for cobalt by neutron activation and spectrometry, 25:57386
  analysis for trace amounts of rubidium by isotope dilution and x-ray fluorescence spectrometry, 23:40559
  analysis of lava containing, for trace elements, activation, 22:50939
  effectiveness as anti-emetic in human patients undergoing radiotherapy of abdomen and pelvis, 22:33893
  etching of, for viewing of particle tracks, (E), 23:5464
  Hugoniot equation of state for jadeite and bronzitite, 22:174
  ion reactions with, particle tracks due to argon and neon, (E), 25:45166
  radiation effects on crystals of, neon- and argon-ion, 25:793
  uranium content in Bavarian, Hawaiian, and South African, fission track studies on, 23:35350
  uranium content in Siberian, determination by (n,f) reactions, 22:48967
  uranium content of, determination by autoradiography, 22:2203
PYRRHOPHYTA
  Gymnodinium bicorne, isolation from tropical Atlantic Ocean, 22:42576(R) (NYO-3497-13)
  luminescence of Gonyaulax polyedra, particulate light reactions in, 21:21829(R) (NYO-3401-3)
PYRROLE
  effects on intermediates produced by gamma radiolysis of 1,2-dibromo-1,1,2,2-tetrafluoroethane—trichlorofluoromethane mixture, spectral studies on, 22:35831 (PRNC-116)
  molecular orbital calculations on, 22:35831 (PRNC-116)
  molecular orbital calculations on radical anion and cation of, 22:35831 (PRNC-116)
  nitrogen-14 NMR spectrum of, triple-resonance spectrometer for measuring, 23:4861
  radiation effects on content of, in blood serum of rats in comparison to effects of methioninesulfoximine, whole-body x, 24:21088
  radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on free radicals produced by γ, 22:27743 (CONF-680423-1)
  radiolysis in 2-methyltetrahydrofuran glass at 77°K, spectral studies on radical ions produced by γ, 22:35831 (PRNC-116)
  radiolysis in 3-methylpentane glass at 77°K, luminescence studies on γ, 22:35831 (PRNC-116)
  radiolysis in Freon glass mixture, spectral studies on γ, 21:25875(R) (PRNC-99)
  methanol—pyrrole, radiation effects on, at 77°K, ESR studies of, 21:24045
Pyrrole, Tetrahydro-
  see Pyrrolidine
PYRROLE, TETRAPHENYL-
  luminescence of, 23:35136(R) (PRNC-128)
  radiolysis in 2-methyltetrahydrofuran, spectral studies on γ, 21:25875(R) (PRNC-99)
PYRROLIDINE
  see also Atropine
  see also Cocaine
  nitroxide free radicals in, 310-MHz NMR study of, 25:12034 (CEA-R-3855)
  radiation effects on, ESR studies on trapped electrons in γ, 23:7558
  radiolysis of aqueous solutions of, spectral studies on transients produced by electron pulse, 24:13908
Pyrrolidine, 1,1'-(2-Butynylene)di-
  see Tremorine
PYRROLIDINE, 1-METHYL-
  effects on kinetics of deuterium exchange from α-position to carbonyl group in methoxy-2-propanone, 21:25841
PYRROLIDINE, 1-PHENYL-
  photolysis of, effects of cyclohexene, cyclopentene, diethyl maleate, and N-phenylmaleimide on yields from uv, 23:49839
  radiolysis of, effects of cyclohexene, cyclopentene, diethyl maleate, and N-phenylmaleimide on yields from γ, 23:49839
PYRROLIDINECARBAMIC ACID, DITHIO-
  ammonium salt, solvent properties for radioisotopes in seawater, 24:14000 (RLO-1750-54, pp 19)
  ammonium salt, use in uv spectrophotometric determination of bismuth, cadmium, cobalt, and molybdenum in solution, 22:30487
  complexes with uranyl compounds, sorption on solid sorbents, 21:21948
1-PYRROLIDINECARBODITHIOIC ACID
  ammonium salt, use for separation of niobium from uranium, iron, tungsten, and zirconium, 21:10437
  ammonium salt, uses for spectrophotometric determination of uranium, 23:40553
2,5-Pyrrolidinediones
  see Succinimides
2-PYRROLIDINONE
  complexes with rare earth nitrates, preparation and physical properties of, 23:2276
  complexes with rare earths, properties of, 23:11494
  hydrogen isotope exchange in, kinetics of, 21:4519
  solvent properties for alkali metal salts, spectral studies on, 24:9343
2-PYRROLIDINONE, 1-METHYL-
  complexes with rare earths, properties of, 23:11494
  solvent properties for alkali metal salts, spectral studies on, 24:9343
2-PYRROLIDINONE, 1,4-(1-PYRROLIDINYL)-2-BUTYNYL-
  radioprotective effects in x-irradiated mice, 21:8887
PYRROLIDINONE, VINYL-
  polymers, radiolysis of aqueous solutions of, kinetics of reactions of hydroxyl radicals in electron-pulse, 24:50427
  radiation effects on subsequent polymerization on silicone, γ and electron, 24:13925
  radiation effects on subsequent polymerization with acrylonitrile and cellulose, effects of composition and solvent on γ, 25:15655
  radioinduced grafting of, onto cellulose acetate, γ, 21:24019
  radioinduced grafting on polypropylene, γ, 22:25418
  radioinduced grafting on silicones, electron, 24:5701(P)
  radioinduced polymerization of liquid and solid, γ, 21:24005
  radioinduced polymerization with solid acrylamide, 3,3-bis(chloromethyl)oxetane, trioxane, or N-vinylsuccinimide, kinetics of γ, 23:15913
  radioprotective effects of, on cells, combined effects of AET with γ, 24:740
  radioprotective effects of, on mice, effects of hypoxia on, 22:28591
  radioprotective effects of, on SCH cells, γ, 22:25892
  reactions with solvated electrons, rate constant of, 25:57475
  use as stabilizer for preparation of technetium-99m-labeled sulfide colloids, 23:50247
  use of iodine-131-labeled toluidine containing, for detection of exudative enteropathy in man, 21:45704
  use of iodine-131-labeled, for therapy of hyperthyroidism, 21:45696
  use of tritium-labeled, for detection of exudative enteropathy in man, 21:45704
2-PYRROLIDINONE, 1-VINYL-
  effects of injections of, on in vitro potassium cation retention in kidneys and spleen of whole-body γ-irradiated mice, 21:22621
  effects on yield of potassium ions from kidneys and spleen of γ-irradiated mice, 21:12773
  N-oxide, polymers, effects on gold-198 uptake by liver and spleen of rabbits following clearance from reticuloendothelial system, 24:34056
2-PYRROLIDINONE, 1-VINYL-, POLYMERS
  effects in combination with CDTA on iron-59 excretion in rats, 22:21456
  effects of, used as preservative on radioprotective properties of blood and bone marrow, 21:16425
  effects on excretion of strontium-90 in rats, 22:21456
  effects on plutonium retention by rats, 22:8480
  labeling with metastable indium-113 for blood circulation studies, 24:32051 (CNEA-259)
  metabolism of iodine-131-labeled, in man, performance of liquid organic scintillation whole-body counter for determining, 23:2564
  preparation of gold-198-labeled colloids of, for use in scintiscanning, 22:43352
  radiation effects on distribution of iodine-131-labeled, in mice, effects of anoxia and dose rate on, 23:33649
  radioinduced crosslinking of, for use as artificial kidney membrane, gamma, 21:17651(R) (NYO-3329-6)
  use for stabilization of gold-198 colloids, effects of, on distribution in mice, 23:9978 (CNEA-213)
  use for stabilization of metastable technetium-99-labeled sulfur colloid, 24:23057
  use of iodine-125-labeled, for human gastrointestinal protein-loss study, 21:22260
  use of iodine-131-labeled, for studying neutron- and x-radioinduced gut leakage in mice, 22:49557
  use of iodine-131-labeled, in determination of RBE for fission neutrons in rats, 21:36685 (BNWL-SA-1156)
  use of iodine-131-labeled, to study gamma radiation effects on permeability of human intestine, 21:22703
  poly(ethenethiol)—poly(vinylpyrrolidone), radioinduced free radicals in, ESR spectral studies on x, 24:2229
Pyrus
  see under Angiospermidae
PYRUVALDEHYDE
  effects on γ-radiosensitivity of Ehrlich ascites tumors of mice, 22:25723 (UCLA-12-668, pp 71-84)
  effects on infectivity of T-even phages for Escherichia coli, 22:19460
  effects on x-radiosensitivity of bacterial and mammalian cells, effects of oxygen abundance on, 22:6844
PYRUVALDEHYDE, 1-OXIME
  radioprotective effects of, on mice and rats, 22:25863
PYRUVATE DEHYDROGENASE
  radiation effects on activity of, in liver mitochondria of rats, protective effects of mustard gas solutions against x, 22:19378
PYRUVATE KINASE
  analysis for molecular shape and size of subunits, biophysical, 23:7932(R) (RLO-581-26)
  dichroism of, effects of univalent cations on circular, 25:10369 (RLO-2227-T-5-4)
  purification for studies of molecular changes induced by activators and inhibitors, methods for, 23:7932(R) (RLO-581-26)
  radiation effects on activity and induction of, in liver of mice, x, 24:12298
  radiation effects on activity of, in acanthotic epidermis of guinea pigs, x, 23:31654
  radiation effects on activity of, in acanthotic guinea pig skin, x, 23:31655

- radiation effects on activity of, in ascites tumor cells, γ, 23:4871
- radiation effects on activity of, in liver of mice, effects of starvation on whole-body x, 21:36689
- radiation effects on activity of, in liver of mice, effects of fasting on x, 23:26701
- regulation in cultured rat liver cells by glucose, insulin, and serum, 25:48542 (UCLA-12-815, pp 37-62)

Pyruvates
  see salts under Pyruvic Acid

PYRUVIC ACID
- complexes with copper and uranium, spectra and stability of, 23:28816
- complexes with uranium, stability constants for, 22:47119
- complexes with uranyl ions, stability constants of, 23:19739
- content of cultured human leukocytes, effects of lactic dehydrogenase on, 23:4485 (ABCC-TR-7-66)
- content of perfused rat liver, 24:44592
- content of, in blood of dogs during acute radiation syndrome, 21:10740
- N,N'-dibenzylethylenediamine salt, analysis for carbon-14 and tritium by liquid scintillation counting, 23:17356
- phosphate, radiation effects on metabolism of, in rats, fast-neutron, 21:4766
- production by γ radiolysis of succinic acid, 21:36052
- radiation effects on content of, in blood of therapy patients, 21:32773
- radiation effects on content of, in cell mitochondria and nuclei of cotton plants, γ, 25:18918
- radiation effects on content of, in liver of mice, whole-body x, 21:20039
- radiation effects on content of, in rat thymocytes, protective effects of cysteamine against x, 24:36802
- radiation effects on incorporation of carbon-14-labeled, into tricarboxylic acid cycle in rat thymocytes, in-vitro x, 25:18902
- radiation effects on metabolism of, by mitochondria from rat liver, 22:8457
- radiation effects on oxidation of, in rat liver mitochondria, γ, 21:10755
- radioinduced production of, from partially hydrolysized fibrous protein, uv, 21:28348
- radiolysis of aqueous ammonia solutions of, effects of potassium iodide on alanine yields from γ, 24:22685
- salts, decarboxylation of, in irradiated carrots, 21:9036 (NYO-3274-4)
- salts, effects on x-radiosensitivity of respiration in reticulocytes of rabbits, combined effects of 2,4-dinitrophenol and x radiation on, 22:45428
- salts, hydrogen-deuterium exchange in, effects of oxaloacetate decarboxylase on rate of, 23:9900
- salts, radiation effects on content of, in erythrocytes of rabbits, whole-body x, 24:31853
- salts, radioprotective effects of, against inactivation of lactic acid dehydrogenase, γ, 22:33729
- sodium salt, metabolism in thiamine-deficient rats, use of carbon-14-labeled carbon dioxide breath analysis to study, 23:29297 (UCRL-18832)
- yields of, in gamma radiolysis of N-acetylalanine, effects of iron on, 21:14249
- sodium salts, protective effects against toxicity of x-irradiated culture media to chick-embryo fibroblasts, 21:6682

PYRUVIC ACID, PHENYL-
- radiolysis of aqueous ammonium hydroxide solutions of, phenylalanine yields from γ, 24:22685

PYRUVONITRILE
- O-benzyloxime, radioprotective effects of, in mammals evaluation of, 21:32694

PYRYLIUM COMPOUNDS
- trimethylpyrylium perchlorate, deuterium exchange between heavy water and, NMR study of, 22:6306
- trimethylpyrylium perchlorate, oxygen-18 exchange between water and, effects of pH on, 22:4140

Q

Q DEV
- atomic beam injection source for, properties of, 24:25974
- cathode coaxial structure for, having electron emitting surface 5.7 cm in diameter at 2700°K with azimuthal temperature uniformity, 23:36730
- cathode design for large radial electric fields, 25:52853
- cathode heating by heat pipe in, isothermal, 24:26244
- cathode potential distributions measurements for, static, 21:33399 (CONF-670104-Pt.1, pp 95-105)
- design and operation of, 22:9290
- design and operation of, 25:9522
- design and operational properties of barium, (E), 23:20874(R) (SIT-2813-47)
- design change in, for modification into magnetic Laval nozzle, 22:50195
- design for alkali metal plasma studies, 22:11404(R) (LA-3831)
- design of Pascal, for cesium plasma instability studies, 22:5379
- design of sealed-off, space-charge limited bombardment diode for, 24:26243
- design of single-ended, with pulsed emitter, 22:44139
- development for optical studies on barium plasmas, 22:24283(R) (SIT-2813-44)
- development for plasma research, 21:18671 (NP-16661)
- development of, 21:11591(R) (ORO-3405-10)
- development of electron-cyclotron-resonance-heated, 24:26241
- development of hot plate with programmable temperature profiles, 24:26242
- development of thermal plasma device (Q machine), 21:27207(R) (NP-16763)
- drift waves in, finite-amplitude resistive, 22:34672
- electric discharge tube for QP, feedback control of PIG, 25:11921 (IPPJ-T-2)
- electric field azimuthal components in, effects of, (E), 23:42260 (IPP-2/76)
- electric field effects on operation of, radial, 21:33396 (CONF-670104-Pt.1, pp 67-77)
- electron bombardment system for Univ. of Maryland, development of, 22:13514(R) (ORO-3405-19)
- electron cyclotron heating in, 22:11404(R) (LA-3831)
- emitters for, performance of tantalum—tungsten, 21:35192 (CONF-670104-Pt.2, pp 601-16)
- endplate heating, development of rotating-cathode system for, 24:26239
- experiments in, 24:12891(R) (RISO-M-961)
- heating system for programmable radial profile of end plate temperature, 21:35133 (CONF-670104-Pt.2, pp 627-32)
- hot-plate development for contact ionization of cesium, 24:24057 (LA-4250, pp DII.6.1-3)
- ion acoustic wave excitation in, parametric, (E/T), 25:40709
- ion cooling in, differential, (E), 23:23109 (RISO-188)
- ion distribution functions in collisionless surface ionized plasmas in, (E/T), 25:5098
- ion drift measurement using radioactive test ions, 25:33260
- ion energy analysis in double ended, cesium, 25:27686
- ion energy measurement using electrostatic disturbances in, (E), 24:26160
- ion interactions with density pulses in, (E), 24:45240
- ion recombination on tungsten end plates of, cesium and potassium, (E/T), 24:5167
- ion temperature and increased end losses in, (T), 24:17882
- ion temperatures in, effects on increased end losses, (E), 22:24243 (MATT-Q-25, pp 118-65)
- ion velocity distribution function in single-ended, shaping of, (E), 25:19670
- ion velocity distribution in single-ended, cesium, (E), 24:23968
- ion—acoustic wave excitation in, Green function for, 24:26268
- ion—acoustic wave excitation in, research on, 22:41571(R) (TID-24563)
- ion—acoustic wave mixing in, nonlinear, (E), 24:40141
- ion-beam excitation of drift waves in, 21:9584
- model for single-ended, thermionic converter, 24:26240
- operation of single-ended, (T), 22:44167
- operation of single-ended, comparison with double-ended, 21:33397 (CONF-670104-Pt.1, pp 35-47)
- operation of, ion cooling effects on, 21:33398 (CONF-670104-Pt.1, pp 79-87)
- oscillations in, electron temperature effects on, (E), 23:32508
- oscillations in, periodic pulling and transition to turbulence in, (T), 22:34649 (ORO-3405-21)
- performance of BARBARA, with cesium chlorides, 24:45244
- pinch effect in low-density plasma in QP, theta, (E), 23:32381
- plasma anomalous transport and oscillations in, 21:33481 (CONF-670104-Pt.1, pp 283-301)
- plasma atomic beam density in, spectroscopic measurement of barium, 23:5379 (IPP-2/66)
- plasma centrifugal instabilities in Helios, rf, (E), 23:20945
- plasma collisional drift instabilities in, onset of, (E), 24:3386 (MATT-731)
- plasma collisional drift wave excitation and damping in, (E/T), 24:5192
- plasma collisional drift waves in linear regime, (E/T), 24:18004
- plasma collisional-drift instabilities in, lithium, (E), 24:3385 (MATT-730)
- plasma confinement and heating in Helios, research on, 23:5370 (ORO-2454-11)
- plasma confinement by electrostatic fields from electron beams in, alkali metal, (T), 25:56013
- plasma confinement in asymmetric, effect of magnetic shear on, (E), 23:51595
- plasma confinement in, temperature gradient effects on, (T), 24:35378
- plasma confinement in, with rotational symmetric temperature distribution at end plates, (E), 24:26148
- plasma confinement in, with symmetrically heated end plates, (E), 23:14750
- plasma confinement time in, cesium, 21:33363 (MATT-Q-24, pp 1-195)
- plasma confinement time in, cesium and potassium, (E), 22:44080
- plasma confinement time measurement in, cesium, 21:33371
- plasma contact ionization in Barbara, lithium and strontium, 25:17192
- plasma convective and oscillatory losses in, (E), 24:6508 (MATT-717)
- plasma convective and oscillatory losses in, (E), 24:26184
- plasma convective losses in, (E), 24:26177
- plasma convective losses in, effect of shear on, (E), 22:24243 (MATT-Q-25, pp 118-65)
- plasma cooling in, collision effects on, 21:29196
- plasma cross-field diffusion in, low-beta collision-dominated, (E), 23:23071
- plasma cross-field losses in, (E), 23:20874(R) (SIT-2813-47)
- plasma density measurements in, comparison of microwave, Langmuir probe, and resonant fluorescent scattering methods for, 21:35140 (CONF-670104-Pt.2, pp 523-30)
- plasma density measurements in, using microwaves, (E), 24:26165
- plasma diagnostics in single-ended, camera for, 25:36099
- plasma diagnostics in TP-D, using carbon dioxide lasers, 25:52792
- plasma diagnostics in, barium, 21:27145(R) (SIT-2813-40)
- plasma diagnostics in, barium, (E), 24:30329(R) (SIT-2813-49)
- plasma diagnostics in, camera for, 22:31793 (SIT-2813-45)
- plasma diagnostics in, using Langmuir probes and microwaves, (E), 23:14762
- plasma diagnostics using Langmuir probes and electrostatic analyzers, (E), 24:26166
- plasma diffusion across, potassium, 22:34581 (SIT-2813-46)
- plasma diffusion and recombination in, (E), 23:32395
- plasma diffusion in, collisional effects on alkali metal, 22:11404(R) (LA-3831)
- plasma diffusion in, cross-field, 21:7180
- plasma diffusion in, potassium, (E), 22:26352 (NYO-2813-39)
- plasma diffusion in, potassium, (E), 22:31828
- plasma diffusion in, research on, 22:41571(R) (TID-24563)
- plasma diffusion in, research on, 22:31865(R) (ORO-3405-20)
- plasma diffusion in, wave-excitation of anomalous, 21:9532
- plasma drift instabilities in, collisional, (T), 25:3119
- plasma drift instabilities in, collisionless, (E), 25:5112
- plasma drift instabilities in, periodic pulling of, (E/T), 24:32849 (ORO-3405-30)
- plasma drift instabilities in, research on, (E), 24:32848(R) (ORO-3405-29)
- plasma drift instability in, periodic pulling of, (E), 25:14337
- plasma drift wave coupling in, cesium, (E), 22:36907 (N-68-16007)
- plasma drift wave coupling in, potassium, (T), 24:3415 (N-69-33202)
- plasma drift wave effects on diffusion in, cesium, 24:17999
- plasma drift wave stabilization in, by ac electric fields, (E), 25:7403
- plasma drift wave stabilization in, by minimum-B fields, (E), 24:51697
- plasma drift wave stabilization in, using shear fields, 24:51704
- plasma drift waves in potassium, parametric mode-mode coupling of, (E), 24:18002
- plasma drift waves in, dispersion relation for, 22:36881 (RISO-171)
- plasma drift-wave fluctuations and anomalous diffusion in, (E), 24:3391
- plasma drift-wave growth rates in, (E), 24:15373
- plasma electron cyclotron resonance heating in, method for, 22:1149
- plasma end losses in, (E), 23:27603 (MATT-Q-26, pp 1-141)
- plasma end losses in, cesium, (E), 23:16774
- plasma equilibrium in low-density regime, (E/T), 23:30570
- plasma flow effects on electrostatic disturbances in, (E), 24:15306
- plasma flute instabilities in electric fields in, (E/T), 23:8639
- plasma flutes in, photography of, 22:44196
- plasma heating by rf fields in Helio experiment, (E), 23:34371 (CONF-680113-(Vol.3), pp 1037-46)
- plasma heating in QP, ion cyclotron resonance, (E/T), 23:18582 (CONF-680113-(Vol.1), pp 343-78)
- plasma heating in QP, power oscillator development for rf, 24:30356 (IPPJ-T-1)
- plasma heating in, electron cyclotron resonance, (E), 24:28229
- plasma inhomogeneities in, longitudinal, (T), 23:36689
- plasma injection and confinement in, cesium, (E), 25:27671
- plasma instabilities in, edge oscillation in, (T), 25:9496
- plasma instabilities in, effect of finite ion Larmor radius on Kelvin—Hehmholtz, 22:1271 (RISO-158)
- plasma instabilities in, feedback stabilization of Kelvin—Helmholtz, (E/T), 25:27772
- plasma instabilities in, mode synchronization phenomena in universal, 21:20989 (ORO-3405-15)
- plasma instabilities in, soft- and hard-onset and amplitude saturation of collisional drift, 24:26233
- plasma instabilities in, transverse Kelvin—Helmholtz, (E/T), 23:48927
- plasma instabilities in, transverse Kelvin—Helmholtz, (T), 24:15337
- plasma interactions with grid in single-ended, (E), 24:8459
- plasma ion energy in, barium and barium—cesium, 21:29207
- plasma ion wave propagation in PASCAL, cesium, 21:35164 (CONF-670104-Pt.2, pp 355-60)
- plasma loss processes in, from surfce recombination and diffusion, (E), 24:35410
- plasma loss processes in, surface recombination, (T), 24:35436
- plasma losses in, charge exchange effects on cesium, (E/T), 22:17628
- plasma oscillations and diffusion in, 21:15196 (MATT-522)
- plasma oscillations in TP-D, (E), 22:29506
- plasma oscillations in, induced scattering of, (E), 25:1248
- plasma oscillations in, lf, (E/T), 24:32860 (ORO-3405-31)
- plasma oscillations in, minimum-B suppression of, 21:7245
- plasma oscillations in, noncorrelation with anomalous transport and equilibrium density in, 22:3080
- plasma oscillations in, nonlinear relaxation of, (T), 24:17992
- plasma oscillations near column edge, effect of pressure drifts on, (E), 25:36245
- plasma periodic pulling and transition to turbulence in, (T), 24:26209

  plasma production in, 25:7475(R) (RISO-215)
  plasma production in, barium, 21:44125
  plasma production in, thermally ionized with negative ions, 21:33363 (MATT-Q-24, pp 1-195)
  plasma properties in, review of, (E/T), 25:1188 (AD-709230)
  plasma properties in, stable state of thermally ionized, (E/T), 25:1189(T) (LA-tr-70-19)
  plasma properties in, stable state, (E/T), 23:20898 (NP-17786)
  plasma research in, review of, 25:49881 (MATT-Q-28, pp 49-53)
  plasma self-luminosity in, barium, (T), 22:26370
  plasma source development for QP, PIG, 24:30356 (IPPJ-T-1)
  plasma spectra in, discrete and continuum, 22:44093 (ORO-3405-17)
  plasma stability in, effect of radial electric fields on, (E), 23:32475
  plasma stability in, electric field effects on potassium, 21:18762 (UCRL-70115)
  plasma stability in, periodic pulling and turbulence in, (E/T), 23:14826
  plasma stability in, rarefied, (T), 24:26229
  plasma stability in, research on, 21:18761(R) (ORO-3405-11)
  plasma stabilization by remote feedback using microwaves, (E/T), 25:27766
  plasma stabilization in, passive feedback, (E), 25:27771
  plasma stabilization in, shear, 21:33363 (MATT-Q-24, pp 1-195)
  plasma stabilization of edge oscillations in, using feedback, (E), 25:27770
  plasma structure in, stationary convective cells in, (E), 24:40064
  plasma surface recombination in, contact-ionized, (T), 24:26211
  plasma temperature and density profiles in, alkali metal, (T), 22:11404(R) (LA-3831)
  plasma transport due to drift waves in, 22:13428 (NP-17257)
  plasma turbulence in low-β, 21:7244
  plasma turbulence in, one-dimensional weak, 21:35200 (CONF-670104-Pt.2, pp 349-51)
  plasma turbulent drift waves in, (E), 22:24243 (MATT-Q-25, pp 118-65)
  plasma velocity distributions in bounded, (T), 22:11404(R) (LA-3831)
  plasma viscous diffusion in, cesium, (T), 22:24280 (MATT-Q-25, pp 257-303)
  plasma wave coupling in, nonlinear drift, (E), 24:10593
  plasma wave coupling in, nonlinear electromagnetic and electrostatic, (E/T), 25:33333
  plasma wave excitation by grids above ion frequency, (E/T), 24:18008
  plasma wave excitation in single-ended, effects of biased grid on, (E), 24:26267
  plasma wave excitation in, by grids, (E), 24:26270
  plasma wave excitation in, ion—acoustic, (E/T), 24:26277
  plasma wave interactions in, collisional drift, (E), 24:26284
  plasma wave interactions in, nonlinear drift, (E), 23:51741
  plasma wave structure in, thermal effects on lf, (T), 25:14385
  plasma wave—charged particle interactions in single-ended, (E/T), 25:27693
  plasma waves in, collisional drift, 21:33363 (MATT-Q-24, pp 1-195)
  plasma waves in, soft and hard onset of collisional drift, (E/T), 23:27603 (MATT-Q-26, pp 1-141)
  potassium current instability in, 21:33480 (CONF-670104-Pt.1, pp 137-43)
  potassium diffusion measurements in, 21:33368 (CONF-670104-Pt.1, pp 259-70)
  potassium ion and atomic reactions in, resonant charge exchange cross sections for, (E), 24:26185
  pyrometer for use in, design and performance of ratio, 24:16930
  radiations from magnetoplasma in, near electron cyclotron harmonics, (E), 22:22146 (NP-17389)
  research on cesium, review of, 24:3327
  research on Helios project, (E/T), 23:48888(R) (ORO-3895-7)
  research on Helios, Sept. 1970, 25:9398(R) (ORO-3895-15)
  research on, review of, 23:34457(R) (TID-25120)
  shock formation in, (E), 22:19993
  shock wave production in plasma in, (E), 23:23108 (RISO-186)
  stabilization of potential oscillations in, by hf magnetic fields, (E/T), 23:36712
  wave kinetics in, research at Aerospace Research Labs, 24:51727 (AD-708519)
  wave propagation in barium plasma in, collisional drift wave effects on density in, (E), 23:44475
QP (Japanese Quiescent Plasma Device)
    see Q Devices
QUAD CITIES POWER REACTOR, UNIT 1 (715 Mw(e))
  ACRS report on, 22:46879 (DOCKET-50254-1)
  addition of Unit 2, preliminary safety analysis for, 22:46884 (DOCKET-50254-6)
  auxiliaries for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  buildings and structures for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  buildings for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  buildings for, maximum earthquake ground acceleration of, 22:46880 (DOCKET-50254-2)
  containment system for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  containment systems fabrication for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  containment systems for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  containment systems for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  containment vessel for, quality control procedures for, 22:46880 (DOCKET-50254-2)
  control elements of, design parameters and performance requirements for gadolinium oxide (Gd_2O_3)—uranium oxide (UO_2) burnable, 24:24761 (DOCKET-50254-15)
  control rod drive system for, analysis of, 22:46887 (DOCKET-50254-9)
  control rod drives for, hydraulic systems for, 24:35977 (DOCKET-50254-16)
  control systems and instrumentation for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  control systems and instrumentation for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  control systems for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  control systems for, reliability analysis of reactor protection, 22:46887 (DOCKET-50254-9)
  cooling system for, design specifications and fabrication codes for, 22:46880 (DOCKET-50254-2)
  cooling system for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  cooling system for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  cooling system for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  cooling systems for, pipe whip protection requirements for, 25:44041 (DOCKET-50254-44)
  core and internals for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  core and internals for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  core for, temperature transients during design basis accident conditions for, 25:20636 (DOCKET-50254-31)
  core isolation cooling system for, safety analysis of design of, 22:46880 (DOCKET-50254-2)
  core spray test program for, description of, 22:46887 (DOCKET-50254-9)
  description of, 22:16218
  design and specifications for, 21:46891
  design basis accidents for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  design parameters for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  design parameters of, requested additional data on, 25:20634 (DOCKET-50254-29)
  design parameters of, requested additional information on, 25:3823 (DOCKET-50254-22)
  design parameters of, requested additional information on, 25:34284 (DOCKET-50254-36)
  design parameters of, revised, 25:41327 (DOCKET-50254-41)
  design parameters of, revised and additional data on, 25:15291 (DOCKET-50254-27)
  design parameters of, revised and additional data on, 25:25915 (DOCKET-50254-34)
  drawings for, complete engineering, 22:46887 (DOCKET-50254-9)
  earthquake design criteria for, 22:46887 (DOCKET-50254-9)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:44040 (DOCKET-50254-42)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:15290 (DOCKET-50254-26)
  effluents from, effects on environment of radioactive and thermal, 25:3826 (DOCKET-50254-25)
  electrical system for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  electrical systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  electrical systems for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  emergency and auxiliary systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  emergency and auxiliary systems for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  emergency core cooling system for, long-term capability of low pressure injection, 25:41326 (DOCKET-50254-40)
  emergency core cooling system for, performance characteristics of, 25:44042 (DOCKET-50254-45)
  emergency core cooling system for, performance requirements for, 25:44041 (DOCKET-50254-44)
  Emergency Core Cooling Systems for, design details and engineering drawings for, 22:46883 (DOCKET-50254-5)
  engineered safeguards for, design requirements of, 24:35977 (DOCKET-50254-16)
  engineered safeguards for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  engineered safeguards for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  engineered safeguards for, preliminary safety analysis of, 22:46882 (DOCKET-50254-4)
  engineered safeguards for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  fuel cask for, request for additional information on drop accident for, 25:36928 (DOCKET-50254-37)
  fuel casks for, drop test performance for, 25:41325 (DOCKET-50254-39)
  fuel casks for, safety aspects of drop accident for, 25:44041 (DOCKET-50254-44)
  fuel element storage pools for, thermal stress analysis for, 24:35977 (DOCKET-50254-16)
  heat transfer system in, reliability of emergency, 21:15729
  inspection of, program for in-service, 24:35977 (DOCKET-50254-16)
  instrument lines for, failure of, 25:41325 (DOCKET-50254-39)
  instrumentation for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  instrumentation for, request for additional information on line failure for, 25:36928 (DOCKET-50254-37)
  license application for, 22:46885 (DOCKET-50254-7)
  loading of, requested additional information on, 25:46193 (DOCKET-50254-47)
  operation of, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  operation of, license for, 25:56944 (DOCKET-50254-52)
  operation of, notice of consideration of issuance of license for 2511 MW(t), 25:23166 (DOCKET-50254-32)
  operations aspects of, requested additional data on, 25:20634 (DOCKET-50254-29)
  operations aspects of, requested additional information on, 25:3823 (DOCKET-50254-22)
  operations aspects of, requested additional information on, 25:34284 (DOCKET-50254-36)
  operations aspects of, revised, 25:41327 (DOCKET-50254-41)
  operations aspects of, revised and additional data on, 25:3824 (DOCKET-50254-23)
  operations aspects of, revised and additional data on, 25:15291 (DOCKET-50254-27)
  operations aspects of, revised and additional data on, 25:25915 (DOCKET-50254-34)
  owners of, financial statement of, 22:46881 (DOCKET-50254-3)
  owners of, financial statements of, 25:31493 (DOCKET-50254-35)
  personnel for, responsibilities and training schedules for, 24:35977 (DOCKET-50254-16)
  physics parameters for initial core loading of gadolinium oxide (Gd_2O_3) burnable poison, 24:47743 (DOCKET-50254-20)
  piping systems for, request for additional information on whip analysis of, 25:36928 (DOCKET-50254-37)
  piping systems for, whip analysis for, 25:41325 (DOCKET-50254-39)
  pressure vessel for, description of proposed in-service inspection program for, 22:46882 (DOCKET-50254-4)
  pressure vessel for, design parameters and seismic stress analysis of, 25:3824 (DOCKET-50254-23)
  pressure vessel for, effects of blowdown conditions on stress loading of, 24:35977 (DOCKET-50254-16)
  pressure vessel for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  pressure vessel for, wood fire on lower core plate of, 25:1786 (DOCKET-50254-21)
  pressure vessel support for, strain and stress characteristics of, 24:35977 (DOCKET-50254-16)
  pumps for, development of jet, 22:46887 (DOCKET-50254-9)
  pumps for, preliminary safety analysis of testing and performance of jet, 22:46882 (DOCKET-50254-4)
  radiation monitoring program for, 24:48556
  radiation monitoring systems for, design requirements of, 24:35977 (DOCKET-50254-16)
  radiation protection and waste handling at, final safety analysis of, 24:35980 (DOCKET-50254-19)
  radiation protection and waste processing at, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  radioactive effluents from, discharge rates for liquid, 25:41325 (DOCKET-50254-39)
  radioactive waste disposal system for, release limits for air ejector off-gas, 25:48181 (DOCKET-50237-195)
  radioactive waste systems for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  radioactivity releases from, analysis of designed precautions for minimizing, 22:46880 (DOCKET-50254-2)
  reactivity transients in, safety analysis of, 22:46882 (DOCKET-50254-4)
  safety analyses for, 22:46886 (DOCKET-50254-8)
  safety evaluation of, Division of Reactor Licensing, 25:50977 (DOCKET-50254-51)
  shielding for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  site for, additional geological and meteorological data for, 25:20635 (DOCKET-50254-30)
  site for, details on foundation grouting for, 23:25987 (DOCKET-50254-13)
  site for, environmental temperature survey during July 1969 to June 1970, 25:20633 (DOCKET-50254-28)
  site for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  site for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  site for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  site for, information on foundation grouting of, 25:3825 (DOCKET-50254-24)
  site for, map of, 25:25914 (DOCKET-50254-33)
  site for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  site meteorology for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  startup test, schedule for, 24:35977 (DOCKET-50254-16)
  steam and power conversion systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  steam and power conversion systems for, preliminary safety analysis of, 22:46886 (DOCKET-50254-8)
  steam condensate system for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  technical specifications for, 23:4107 (DOCKET-50254-12)
  technical specifications for, 25:56944 (DOCKET-50254-52)
  technical specifications for, proposed complete, 24:35978 (DOCKET-50254-17)
  testing of, request for authorization for initial, 25:59949 (DOCKET-50254-53)
  testing of, requested additional information on critical, 25:46193 (DOCKET-50254-47)

  - tornado design criteria for, 22:46880 (DOCKET-50254-2)
  - tornado design criteria, safety analysis of, 22:46882 (DOCKET-50254-4)
  - turbine for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - turbine rotor failures at, safety analysis of possible, 22:46882 (DOCKET-50254-4)
  - turbine-generator failures at, analysis of effects of, 22:46880 (DOCKET-50254-2)
  - waste handling at, preliminary safety analysis of, 22:46882 (DOCKET-50254-4)

QUAD CITIES POWER REACTOR, UNIT 2 (715 Mw(e))
  - ACRS report on, 22:46879 (DOCKET-50254-1)
  - auxiliaries for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - buildings and structures for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - buildings for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - buildings for, maximum earthquake ground acceleration of, 22:46880 (DOCKET-50254-2)
  - construction of, extension of permit completion date for, 25:25918 (DOCKET-50265-31)
  - containment system for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  - containment systems fabrication for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - containment systems for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  - containment vessel for, quality control procedures for, 22:46880 (DOCKET-50254-2)
  - control elements of, design parameters and performance requirements for gadolinium oxide (Gd_2O_3)—uranium oxide (UO_2) burnable, 24:24761 (DOCKET-50254-15)
  - control rod drives for, hydraulic systems for, 24:35977 (DOCKET-50254-16)
  - control systems and instrumentation for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - control systems for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - cooling system for, design specifications and fabrication codes for, 22:46880 (DOCKET-50254-2)
  - cooling system for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  - cooling system for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  - cooling systems for, pipe whip protection requirements for, 25:44041 (DOCKET-50254-44)
  - core and internals for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  - core for, temperature transients during design basis accident conditions for, 25:20636 (DOCKET-50254-31)
  - core isolation cooling system for, safety analysis of design of, 22:46880 (DOCKET-50254-2)
  - description of, 22:16218
  - design basis accidents for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - design parameters for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  - design parameters of, requested additional data on, 25:20634 (DOCKET-50254-29)
  - design parameters of, requested additional information on, 25:3823 (DOCKET-50254-22)
  - design parameters of, requested additional information on, 25:34284 (DOCKET-50254-36)
  - design parameters of, revised, 25:41327 (DOCKET-50254-41)
  - design parameters of, revised and additional data on, 25:15291 (DOCKET-50254-27)
  - design parameters of, revised and additional data on, 25:25915 (DOCKET-50254-34)
  - effluents from, effects on environment of chemical, radioactive, and thermal, 25:15290 (DOCKET-50254-26)
  - effluents from, effects on environment of chemical, radioactive, and thermal, 25:44040 (DOCKET-50254-42)
  - effluents from, effects on environment of radioactive and thermal, 25:3826 (DOCKET-50254-25)
  - electrical system for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - electrical systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - emergency and auxiliary systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - emergency core cooling system for, long-term capability of low pressure injection, 25:41326 (DOCKET-50254-40)
  - emergency core cooling system for, performance characteristics of, 25:44042 (DOCKET-50254-45)
  - emergency core cooling system for, performance requirements for, 25:44041 (DOCKET-50254-44)
  - Emergency Core Cooling Systems for, design details and engineering drawings for, 22:46883 (DOCKET-50254-5)
  - engineered safeguards for, design requirements of, 24:35977 (DOCKET-50254-16)
  - engineered safeguards for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  - engineered safeguards for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  - engineered safeguards for, preliminary safety analysis of, 22:46882 (DOCKET-50254-4)
  - fuel cask for, request for additional information on drop accident for, 25:36928 (DOCKET-50254-37)
  - fuel casks for, drop test performance for, 25:41325 (DOCKET-50254-39)
  - fuel casks for, safety aspects of drop accident for, 25:44041 (DOCKET-50254-44)
  - fuel element storage pools for, thermal stress analysis for, 24:35977 (DOCKET-50254-16)
  - inspection of, program for in-service, 24:35977 (DOCKET-50254-16)
  - instrument lines for, failure of, 25:41325 (DOCKET-50254-39)
  - instrumentation for request for additional information on line failure for, 25:36928 (DOCKET-50254-37)
  - instrumentation for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - loading of, request for authorization for initial, 25:59949 (DOCKET-50254-53)
  - operation of, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - operation of, notice of consideration of issuance of license for 2511 MW(t), 25:23166 (DOCKET-50254-32)
  - operations aspects of, requested additional data on, 25:20634 (DOCKET-50254-29)
  - operations aspects of, requested additional information on, 25:3823 (DOCKET-50254-22)
  - operations aspects of, requested additional information on, 25:34284 (DOCKET-50254-36)
  - operations aspects of, revised, 25:41327 (DOCKET-50254-41)
  - operations aspects of, revised and additional data on, 25:3824 (DOCKET-50254-23)
  - operations aspects of, revised and additional data on, 25:15291 (DOCKET-50254-27)
  - operations aspects of, revised and additional data on, 25:25915 (DOCKET-50254-34)
  - owners of, financial statement of, 22:46881 (DOCKET-50254-3)
  - owners of, financial statements of, 25:31493 (DOCKET-50254-35)
  - personnel for, responsibilities and training schedules for, 24:35977 (DOCKET-50254-16)
  - physics parameters for initial core loading of gadolinium oxide (Gd_2O_3) burnable poison, 24:47743 (DOCKET-50254-20)
  - piping systems for, request for additional information on whip analysis of, 25:36928 (DOCKET-50254-37)
  - piping systems for, whip analysis for, 25:41325 (DOCKET-50254-39)
  - pressure vessel for, description of proposed in-service inspection program for, 22:46882 (DOCKET-50254-4)
  - pressure vessel for, design parameters and seismic stress analysis of, 25:3824 (DOCKET-50254-23)
  - pressure vessel for, effects of blowdown conditions on stress loading of, 24:35977 (DOCKET-50254-16)
  - pressure vessel for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - pressure vessel support for, strain and stress characteristics of, 24:35977 (DOCKET-50254-16)
  - pumps for, preliminary safety analysis of testing and performance of jet, 22:46882 (DOCKET-50254-4)
  - radiation monitoring systems for, design requirements of, 24:35977 (DOCKET-50254-16)
  - radiation protection and waste handling at, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - radioactive effluents from, discharge rates for liquid, 25:41325 (DOCKET-50254-39)
  - radioactive waste disposal system for, release limits for air ejector off-gas, 25:48181 (DOCKET-50237-195)
  - radioactive waste systems for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - radioactivity releases from, analysis of designed precautions for minimizing, 22:46880 (DOCKET-50254-2)
  - reactivity transients in, safety analysis of, 22:46882 (DOCKET-50254-4)
  - safety analysis report for, preliminary, 22:46884 (DOCKET-50254-6)
  - safety evaluation of, Division of Reactor Licensing, 25:50977 (DOCKET-50254-51)
  - shielding for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - site for, additional geological and meteorological data for, 25:20635 (DOCKET-50254-30)
  - site for, details on foundation grouting for, 23:25987 (DOCKET-50254-13)
  - site for, environmental temperature survey during July 1969 to June 1970, 25:20633 (DOCKET-50254-28)
  - site for, final safety analysis of, 24:35979 (DOCKET-50254-18)
  - site for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - site for, final safety analysis report on, 23:4105 (DOCKET-50254-10)
  - site for, information on foundation grouting of, 25:3825 (DOCKET-50254-24)
  - site for, map of, 25:25914 (DOCKET-50254-33)
  - site meteorology for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - startup test, schedule for, 24:35977 (DOCKET-50254-16)
  - steam and power conversion systems for, final safety analysis of, 24:35980 (DOCKET-50254-19)
  - steam condensate system for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - technical specifications for, 23:4107 (DOCKET-50254-12)
  - technical specifications for, proposed complete, 24:35978 (DOCKET-50254-17)
  - testing of, request for authorization for initial, 25:59949 (DOCKET-50254-53)
  - tornado design criteria for, 22:46880 (DOCKET-50254-2)
  - tornado design criteria, safety analysis of, 22:46882 (DOCKET-50254-4)
  - turbine for, final safety analysis report on, 23:4106 (DOCKET-50254-11)
  - turbine rotor failures at, safety analysis of possible, 22:46882 (DOCKET-50254-4)
  - turbine-generator failures at, analysis of effects of, 22:46880 (DOCKET-50254-2)
  - waste handling at, preliminary safety analysis of, 22:46882 (DOCKET-50254-4)

Quadrupole Moments
    see Moments

Quail (Corturnix)
    see Corturnix under Aves

Qualitative Analysis
    see Analytical Chemistry

QUALITY CONTROL
  - component reliability in, method for estimation of, 22:27955 (ORNL-TM-2200)
  - conference on methods and uses for, Los Angeles, Calif., May 5 to 7, 1969, 25:42030
  - continuous sampling for, use of computers in, 21:35830 (Y-1585)
  - costs for reactor power plant and components, in U.K, 24:9065
  - development of multi-application control for use in, 22:10144 (SC-DR-67-800)
  - effects of human error on, 21:38842 (SC-R-67-1150)
  - Kolmogorov—Smirnov statistic in, 21:19525 (SC-TM-66-613)
  - laboratory for ceramic and metallic fuel element, description of, 22:27960
  - malfunctions in, computer program for detection of, 22:3989 (UCID-15240)
  - method for coated particulate reactor fuels, 24:39694(P)
  - method for fabrication of reactor components, 24:50254
  - method for laboratory, computerized, 25:57611 (CTC-51)
  - method for power reactor construction, 24:45842
  - method using gamma radiography, efficiency evaluation of, 25:57696
  - methods for analytical chemistry, review on, 24:2094 (IN-1316, pp 60-8)
  - methods for assuring, during production of commercial, industrial, and military equipment, use of nondestructive materials testing techniques in, 25:42032
  - methods for fabrication and assembly of shielded container for shipping cesium-137, 25:48867 (CONF-710801-(Vol.2), pp 945-72)
  - methods for fabrication of nuclear equipment in Japan, review of, 24:44221
  - methods for fabrication of plutonium carbide (PuC)—uranium carbide (UC) and plutonium oxide (PuO_2)—uranium oxide (UO_2) pellets, 24:18725(R) (UNC-5238)
  - methods for fabrication of plutonium oxide (PuO_2)—uranium oxide (UO_2) pellets, 24:18726(R) (UNC-5248)
  - methods for fuel element fabrication, use of statistical tolerance limits in, 25:42033
  - methods for improving accuracy of material balance accounting systems, 25:8448 (BNWL-SA-3336)
  - methods for paper industry, use of radioisotope x-ray techniques in, 25:51689 (A/CONF.49/P-6)
  - methods for production of uranium fuel cores, 23:38918 (NLCO-1037)
  - methods for radiographic, of semiconductors and components, 21:246
  - methods for steel pressure vessels, 24:44688
  - methods for thermoelectric space power systems, 24:48222(R) (GA-9515(Pt.2))
  - methods for undersea oceanographic measurements, 22:42909 (CU-2663-9, App.S)
  - procedures for Molten Salt Reactor Experiment construction and maintenance, 24:43792 (ORNL-TM-2999)
  - procedures for Monticello Power Reactor Unit 1, supplementary, 23:52242 (DOCKET-50263-30)
  - procedures for Oyster Creek Power Reactor Unit 1 components fabricated in field, 23:52219 (DOCKET-50219-47)
  - procedures for Oyster Creek Power Reactor Unit 1 components, 23:52211 (DOCKET-50219-39)
  - procedures for pyrolytic carbon coated particle type uranium carbide (UC)—zirconium carbide (ZrC) and thorium carbide (ThC_2)—uranium carbide (UC_2) fuels, 24:40998 (DP-Report-327)
  - procedures in Netherlands for fuel element fabrication, 24:20652
  - production error reduction, human factors approach to, 21:23800 (SC-R-67-1044)
  - program for design and fabrication of containers for shipping radioactive material, 25:51830
  - program for fabrication of Trojan Power Reactor fuel elements, 23:52262 (DOCKET-50344-5)
  - program for power reactor construction, 24:45844
  - program for statistical, with options, 24:20674 (SC-DC-70-4736)
  - programs for nuclear power plant construction, review of U. S, 24:24778
  - radiographic method for, of hermetically sealed relays, 22:12558 (N-67-23261)
  - radioisotope techniques for, in industry and Federal Agencies, 21:8542
  - research progress on, 23:7 (IN-1203, pp 52-61)
  - slit camera for inspection of cylindrical objects, design of, 21:6364
  - solution for WAGR sequential T-test in, 24:26855 (BDX-613-117)
  - standard for items or services purchased for nuclear reactor, test facility, and engineering development applications, 25:42022 (RDT-F-2-4-T)
  - standards for fabrication and use of radioactive material shipping containers, implementation of IAEA, 25:51831
  - standards for power reactor construction, 24:45843
  - testing of Oyster Creek Power Reactor Unit 1 components, 23:52211 (DOCKET-50219-39)
  - testing of Oyster Creek Power Reactor Unit 1 components fabricated in field, 23:52219 (DOCKET-50219-47)
  - use of nuclear instruments in dairy industry, 21:34410

Quantitative Analysis
    see Analytical Chemistry

Quantometers
    see Gamma Spectrometers

Quantometric Analysis
    see Spectroscopy

QUANTUM ELECTRODYNAMICS
amplitude calculation without bare constants and divergences in, photon Green functions from, 22:20187
analysis of principle of minimal electromagnetic interaction, 24:20024
analytic representation for, 25:25501
analyticity of, in α, 21:961
angular momentum plane in, asymptotics of $\gamma + \gamma$, $\gamma +$ e, and e + e interactions at high energies from leading singularity in complex, 25:14802
annihilation processes in, calculation of double logarithmic asymptotics for, 24:15643
approximations in, classical, (T), 25:38774 (CEA-R-4142)
asymptotic condition and covariant gauges in, 22:5640
asymptotic states in, 25:12249
atom interactions with electromagnetic fields in, 22:46513
axial current conservation in massless, 25:33811
axial current in massless, conservation of, 25:25505
axial-vector current and Lagrangian function in two-dimensional spinor, with nonvanishing fermion mass, 24:3741
axial-vector current in spinor, 25:17570
axial-vector current in spinor, renormalized, 23:32809
axial-vector vertex in spinor, 23:18985
Bethe—Salpeter equation in, Goldstone bosons in, 22:13846
Bethe—Salpeter equation in, precision measurement of orthopositronium decay rate for tests of, 23:42544
Bethe—Salpeter equations for low-energy interactions, approximate solutions to, 22:53019
Bethe-Salpeter equation and Goldstone bosons in, 21:15402
book: Electromagnetism and Quantum Theory, 24:24425
book: Generalized Feynman Amplitudes, 23:51985
book: Interactions of Photons and Leptons with Matter, 23:23531
book: Lectures on Nonlinear Electrodynamics, 25:9869
book: Modern Quantum Mechanics with Applications to Elementary Particles Physics, 23:51875
book: Quantum Electrodynamics, 23:42723
book: Relativistic Quantum Theory. Vol. 4, 25:43086
book: Topics in Applied Quantum Electrodynamics, 24:35693
breakdown in $e^+ + e^-$ interactions in colliding beams, (T), 23:23526 (LNF-69/1)
breakdown of, review of theory for direction and extent of, 22:32198 (LNF-68/17)
bremsstrahlung at high energies in, properties of, (E), 24:10816
calculation of higher-order processes at high energies in, algebra simplification for, 22:20317
calculations in, S-matrix and perturbation, 22:22444
catastrophic events in, gauge invariance for, 23:15222
causal distributions in, singularity structure of, 25:12133
charge in, simplified equation for bare, 25:33828
charge operator in, convergence of integral over local charge density toward global charge for, (T), 24:10821
charge renormalization and vacuum polarization in, at small distances, 23:46798
charge renormalization constant in, sixth-order, 25:20060
charge renormalization in sixth order in, finite, 22:35081
charge renormalization in spinor, finite, 22:24721
charge renormalization in, electric and magnetic, 21:5422
charge renormalization in, finite, 25:12247
charge renormalization in, semi-perturbative analysis of, 22:32208
charge renormalization in, zero charge problem for, 22:26700 (JINR-P2-3590, pp 137-47)
charge renormalization with zero-mass states, conserved currents for, 22:3512
charge-current commutator in, equal-time, 25:59566
charged vector bosons in relativistic divergenceless, polarization formalism for spin-1 and arbitrary-gyromagnetic-ratio, 24:6752
charged-particle scattering-amplitudes in, eikonals and Wu—Yang conjecture for, 24:37879
commutators in spinor, nonexistence of anomalous, 24:18273
commutators of current operators and form factors in, equal-time, 24:3738
commutators of currents and fields in, gradient terms in, 23:34640
commutators of fields in, review of gradient terms in, 25:30954
composite particle interactions at very high energies in, lectures on model for, (T), 25:22725 (INP-712(Vol.1), pp 53-96)
conference, 22:22342 (CONF-670923)
conference on computational methods in, 25:20054 (CNRS-CPT-70-P-335)
constant 2e/h in, determination using ac Josephson effect, 25:5412
cosmological model using formulation of, (T), 24:8313
Coulomb covariance of scattering in, 24:18281
Coulomb pole motion in J-plane in, asymptotic amplitude of $\mu^+ + \mu^- \rightarrow e^+ + e^-$ interactions for, (T), 22:37144
Coulomb potential in group theory for, degenerate orbital of, 21:27432
covariance condition for, Dirac—Schwinger, 21:35343
CP violation from, mechanism for, 25:59539
cross-section dip in, differential, 21:15287
crossing symmetry in, experimental test of, 25:53004
current commutators for spin-$^1/_2$, gauge invariance and Lorentz covariance of, 21:5420
current commutators in renormalized, Hamiltonian formalism for, 22:24716 (ITF-67-43)
current commutators in scalar and spinor, singularity structure of causal distributions for, 25:12133
current commutators in, gradient terms of, 24:49574
current commutators in, operator structure of singular terms in equal-time, 25:14795
current commutators in, operator structure of singular terms in, 21:37923
current commutators on light cone, canonical structure of, 25:53293
current conservation in massless electron and meson (μ), spontaneous breakdown of, (T), 24:10818
current densities in, current algebra for local, 21:46523 (SLAC-PUB-338)
current divergences in, Cabibbo angle relation with chiral symmetry breaking in, 23:25668 (CERN-69-7, pp 465-83)
current operators in two-dimensional, with nonzero fermion mass, 23:49202
currents in, equal-time commutators for renormalized, 23:15225
currents in, field dependence of, 21:5419
cut-off in, cross sections and luminosity of Bhabha scattering at 0 to 500 MeV at large angles in colliding beams for lower limit of, (E), 25:53296
cut-off in, gauge-invariant, 25:47957
dielectric constant of Bloch electrons in crossed electric and magnetic fields, 21:13668
diffraction scattering in, high-energy, 24:30481
Dirac currents in, nonrelativistic approximation of, 21:33571
Dirac equation in, canonical SO(4) transformations of, 24:8727
Dirac equation in, class of solutions for, 22:32203
Dirac equation in, invariant decomposition for solution of, 23:44715
Dirac γ matrices in, algorithm for reducing contracted products of, 23:1673
Dirac—Schwinger covariance condition in, 21:44443
dispersion relations for scalar, dynamical scheme of, 23:15197 (ITF-68-23)
dispersion relations in, trace calculation for, 22:3510
dispersion theory for, Lagrangian formalism for, 22:44484
divergence in, fluid description of electromagnetic fields in potential representation with rapidity vectors for, 25:22874
divergences in, removal of, (T), 23:16985 (NYO-1932(2)-145)
divergences in, renormalization functional relations for, 25:9848
divergences in, renormalized Ward identity for axial-vector, 25:53282
duality in, field—particle, 24:3740
electric fields in, superheavy nuclei in theory of strong, 24:24426
electromagnetic field with external current in, model for, 21:40267 (JINR-P2-3382)
electromagnetic operator in, test for isotensor component of, 25:56839
electromagnetic radiation emission from system of many excited atoms, 23:15212
electromagnetic radiation velocity in, (T), 21:9848
electromagnetic self energies in, sidewise dispersion relations for, 22:52958
electron and meson (μ) anomalous magnetic moment in, review of, (E), 23:49199
electron dynamic mass and renormalization constant in, 23:30798
electron electromagnetic mass paradox in, 23:49089
electron field in, torsionless affine Einstein field theory for, 23:46806
electron g-factor anomaly from, (E), 25:59560
electron inner structure in, 25:1620
electron interactions at high energies in, 23:51987
electron interactions in relativistic, Breit operator form for, 24:3744
electron interactions with electromagnetic fields in, dynamic invariance for, 22:48368
electron interactions with external potential in, model for, 21:40267 (JINR-P2-3382)
electron magnetic moment in, experiments for measuring, 22:46512
electron mass and charge in, Green functions for bare, 22:39475
electron mass and magnetic moment in, theory for heavy, 23:42731
electron mass in gravity-modified, 25:53290
electron mass renormalization in, functional relations for, 25:9848
electron production in, theory of sources for, 24:5263
electron propagator in, spectral representation for, 21:19061
electron scattering at high energies in, impact diagrams for, 24:24299
electron self-energy graphs in, renormalization group for asymptotic behavior of, 22:15840
electron self-energy in, renormalization functional relations for solution for, 25:9848
electron self-mass and propagator in renormalized, 25:33827
electron spin—orbit interaction, derivation of, 21:18852
electron static electromagnetic self-field in, (T), 24:3585
electron stationary states in, Rayleigh—Ritz method for dressed-, 22:46501
electron system collective oscillations in, relativistic many-body, 24:6710
electron wave function in, potentials for, 24:35704
electron wave function renormalization constants in, functional relations for, 25:9848
electron—positron field interactions with external classical electromagnetic field in, elementary C^* algebra for, 24:13156
emission in Wheeler—Feynman, spontaneous, (T), 24:24196
energy levels in, complex angular momentum for unstable, 21:27341
energy levels of hydrogen-like systems in, quasipotential method in bound-state problem for, 24:15677 (INP-681, pp 81-101)
energy of conducting spherical shell in, zero-point, 23:3796
equations in, interactions at high energies for test of linearity of, (T), 22:48360
fermion propagator in arbitrary gauge, 24:52188
Feynman amplitude in, parametric representations of renormalized, 23:10854
Feynman diagrams for renormalized radiative corrections in, LISP language for, 24:18265 (CNRS-CPT-69-P-317)
Feynman integrals in, asymptotic estimates of, 22:50449
Feynman rules in infinite momentum frame in, 23:32807
field antisymmetric quantization in, functional integration for Dirac, 22:9683
field energies of point charges in polarized vacuum in Lorentz-invariant, 25:9867
field equations for one-electron multi-photon stationary states for Compton $\gamma + e \rightarrow \gamma + e$ interactions in, effective, 25:12139
field interactions with gravitational fields, electromagnetic and Dirac, (T), 22:18019
field nonlinear interactions in, vacuum polarization tensor for, 25:1598 (NP-18473)
field operators in, local Lagrangian for small-distance behavior of, 22:15722
field quantization in general covariant gauge for, 22:9671
field quantization in, difficulties of, 23:15213
field quantization without charges in, constraints for, 24:28593
field theory formulation in, 23:15214
field—current identity for hadronic contribution to meson (μ) g factor for behavior at small distances for, 24:10808 (LNF-69/33)
fields in, functional method for solutions of Klein—Gordon and Dirac equations in external, 25:9845
fields in, generation of dual transformations of electromagnetic, 21:4105
fields in, group properties of wave equations for zero-mass particle, 22:20312
fields in, real spinor, 21:33763
fields in, structural inconsistency of higher spin, 21:2511 (UCRL-17139)
fine structure constant α in, ac Josephson effect for 2e/h measurement for, 21:15408
fine structure constant α in, method for measurement of, 22:38779
fine structure constant for predictions of, ac-Josephson-effect determination of e/h for, (E), 25:45799
fine structure constant in, determination using microwave transitions in hydrogen, 25:22879
fine structure constant measurement for, $1/\alpha$, 22:26210
fine structure constant, Lamb shift, and electron and muon g factors in, discrepancies in, 23:5512 (SLAC-PUB-502)
form factors and equal-time commutators in, with internal symmetry, 23:16945 (DESY-68/54)
form factors in, 23:51987
formalism for analytic regularization incorporating gauge invariance, 23:3812
formalism for charged vector bosons in electromagnetic fields, 24:37684
formalism for, c-number generating functionals in, 22:35071 (LPTHE-TH-68/6)
formalism in self-consistent, 22:41850
formalism in, sequence of nonlocal bounded self-adjoint interaction Hamiltonians in subtractive, 24:3731 (ITF-69-36)
formalism with indefinite metric, covariant condition in, 23:32808
formulation based on finite local field equations in, 25:14777
formulation for electrons and photons on null planes, 25:53312
formulation for vector mesons, 25:33724
formulation in infinite-momentum frame, 24:37886
formulation in nonlinear gauge, 23:25690
formulation of divergence-free, relativistic, gauge invariant, macrocausal, 22:20311
formulation of divergenceless, 25:7722
formulation of finite, 25:17555 (NYO-1932(2)-183)
formulation of finite theory of, 24:47498
formulation of five-dimensional unitary, in Riemaniann space, 22:44488
formulation of gauge-invariant, cut-off for, 25:47957
formulation of Lorentz-invariant, finite field energies of point charges in polarized vacuum in, 25:9867
formulation of noncovariant, molecular multipole interaction with electromagnetic field in canonical, 25:9842
formulation of nonlocal, 25:30937 (JINR-P2-5694)
formulation of nonrenormalizable, for vector mesons, 24:49568 (IS-T-392)
formulation of semi-quantized, from charged vector boson field interactions with external electromagnetic field, 25:5413
formulation of Wheeler—Feynman, S-matrix, 25:3446
formulation of, axiomatic, 21:25345
formulation of, finite, 23:10855
formulation of, gauge-independent, 21:11806
formulation of, nonlocal gauge invariant Lagrangian in extended, 23:39801
formulation of, Pugh, 22:29754
formulation of, validity of Sachs—Schwebel nonlinear, 24:10826
formulation using Dirac bispinor form of Maxwell's equations, 24:37597
formulation with classical fields, 22:35079
formulation with gauge-noninvariant regularization, Hamiltonian, 24:28585 (ITF-70-16)
formulation with magnetons, 21:29627
formulation with strong Lorentz condition, 21:29628
formulation with tensor potentials, 24:18267
formulation with tensor potentials, 24:49583
formulation without divergences, 22:26695 (JINR-P2-3590, pp 75-80)
formulations of relativistic and nonrelativistic, 25:3440
gauge formulation and renormalization in, Schwinger terms in, 25:3444

gauge invariance and mass in scalar, 23:23540
gauge invariance and renormalization in, 24:52187
gauge invariance and renormalized transition probability in, 25:9859
gauge invariance in, 24:43016
gauge invariance in gravity-modified, localizable parametrization for, 25:45805
gauge invariance in Pauli-Villars regularization in, 24:28581 (ITF-70-15)
gauge invariance in, Galilean-invariant theory for, 25:47950
gauge invariance of transition amplitudes in, 21:25343
gauge invariance with nonzero photon bare mass, 22:39337
gauge theory for, massive, 24:3736
gauge transformations and local charges of quasi-particles, (T), 25:20082
gauge transformations in, quantum, 22:5634
gauge variance formalism in, application to current algebra, 21:33764
gauge-invariant cut-off in, 25:47957
ghost structure in Gupta—Bleuler and Heisenberg—Lee theories in, 23:39809
graviton Lagrangian and superpropagator in, 25:30994
Green function equations in, vacuum loops in integration of, 23:16984 (ITF-68-59)
Green function of charged particles in, infrared singularities of, 21:959 (JINR-P-2856)
Green functions for, model with no photon self-energy insertions for, 25:20062
Green functions in, mass-shell singularities of, 22:50452
hadron contributions to high-energy, 21:46586
hadron interactions at high energies in, review of, 25:47774 (CONF-700411-, pp 1-14)
Hamiltonian formulation of action-at-a-distance electrodynamics in, for two spin-$^{1}/_{2}$ charged particles, 21:35341
harmonics in, spin harmonics for tensor and spinor spherical, 25:53331
Hartree—Fock approximation for bound-state problem in, 25:30989
hydrogen energy-level transitions in, absorber universe for atomic, 23:46803
hyperquantization formalism for interacting spin-3/2 field in, 25:12267
hyperquantization of spin-$^{1}/_{2}$, 24:47506
infinities in vierbein-gravity Lagrangians in, elimination of, 24:47504
infinity suppression in gravity-modified, 25:30994
infinity suppression in gravity-modified, gauge invariant, 25:33803 (IC-71/13)
infrared catastrophe in, quantized nonrelativistic electron interactions with photon fields in Pauli and Fierz model with, 24:15659
infrared corrections for colliding $e^- + e^+$ beam experiments, 22:3320
infrared divergence cancellation in photon processes in, unitarity and connectedness structure of S-matrix for, 24:33047
infrared divergence in, 21:33765
infrared divergence in charged particle two-body scattering and binding energy in, classical approximations for, (T), 25:38774 (CEA-R-4142)
infrared divergence in, coherent states in theory for, 22:46372
infrared divergence in, photon retinue for, 25:47936 (ORO-3992-56)
infrared divergence in, redefinition of final states for elimination of, 22:53014 (LNF-67/1)
infrared divergence in, soft-photon emissions for, 25:47961
infrared divergences in, asymptotic condition for S-matrix definition of interacting charged particles free from, (T), 24:45588
infrared divergences in, coherent states for, 24:30554 (IS-T-340)
infrared divergences in, elimination of, 21:33773
infrared divergences in, relation with states with definite charge parity, 23:15223
infrared divergences of electron—photon system in strong interactions in, 25:38685
interactions at high energies in, 23:42619
interactions at high energies in, 23:42618
interactions at high energies in, asymptotics and amplitudes of, (T), 25:33625
interactions at low and medium energies in, conference on, 24:13140 (CONF-670203-(Vol.1))
interactions $e^+ + e^- \rightarrow n\gamma$ at high energies in, 24:10816
interactions in, double logarithmic asymptotics of Feynman graphs for, 21:40280
interactions in, indefinite metric for nonlocal, 22:26694 (JINR-P2-3590, pp 69-74)
interactions in, Lagrangian theory for, 25:59563
interactions in, time-symmetric, 24:37877
interactions of scalar photons with spinless mesons in non-Lagrangian, 24:15521
invariance principles in, dual, (T), 21:4108
kinetic equations in Bogoliubov axiomatics for spinor, 22:29745 (ITF-67-30)
Lagrangians for parton model for interactions at high energies in, nonpolynomial, 25:33574 (INP-713(Vol.2), pp 117-21)
Lamb shift in hydrogen in, two-body problem for, 25:36567
Lamb shift in nonlinear, 24:30570
Lamb shift in self-consistent spinor, 22:48358
Lamb shift in, analytic fourth-order crossed ladder contribution to, 25:38780
Lamb shift in, crossed-graph contribution to fourth-order, 25:43687
Lamb shift in, fourth-order corrections for, 21:3651
Lamb shift in, review of experiments on, 22:46511
Lamb shift in, Sachs—Schwebel calculation of, 25:7727
lepton anomalous magnetic moment in, cut-off from field with nonpolynomial interaction for, 25:12157
lepton pair production in, modified fermion propagator for asymmetrical, 23:23528
light scattering in, nonlinear effects in, 23:1677
Lorentz condition and gauge for longitudinal and scalar photons in, 21:27434
magnetic monopole in formalism of, 21:23353
magnetic monopoles in, Dirac theory of, 21:13735
mass and charge renormalization constants without bare mass in, 22:20313
mass renormalization in, 25:53286
meson (μ) magnetic moment in, expansion parameter for anomalous, 23:8844
meson (μ) magnetic moment in, experiments for measuring, 22:46512
meson mass shifts in non-Lagrangian, 24:15521
metric for neutron—proton electromagnetic mass difference and production of heavy photons in electromagnetic interactions, indefinite, 25:56547 (NYO-1932(2)-200)
model for interactions in, multiple diffractive scattering, 25:28073
model for number and momentum distributions, total cross sections, and amplitudes for production of electron pairs in $e + e$ interactions in, infinite-momentum, 25:59345
model for, with magnetic monopole, 21:31565
multiperipheral model at infinite momentum in, 25:30974
nuclear reactions in, 23:21153
nuclei in theory of strong fields in, superheavy, 24:24426
observables in, noncovariance and Lorentz covariance for, 25:25509
observation of nonlinear effects in vacuum, (T), 21:11810
operator formulation in Landau gauge, 22:18013
pair production from photon interactions in constant and uniform electric field in, scalar-particle and electron—positron, 22:22360
pair production with modified fermion propagator in, asymmetric, 22:46495 (DESY-68/36)
particle annihilation and production with external current and potential in, 22:32200
particle in external field in, Markovian process for single spinless nonrelativistic, 23:42728
particle in external field in, Markovian process for nonrelativistic spin-1/2, 23:42727
particle interactions in, 23:21153
particle interactions in, double-logarithmic asymptotics of amplitudes and cross sections for, 22:1478
particle interactions in, electric quadrupole moment for spin-1, 23:39643 (COO-264-490)
particle interactions with electromagnetic and electrostatic fields in, nondegenerate perturbation treatment of, 22:34239 (COO-1112-160)
particle interactions with electromagnetic fields in, Foldy—Wouthuysen transformation for arbitrary-spin, 22:3314
particle interactions with electromagnetic fields in, 2[2j + 1]-component formalism for relativistic equation for, 23:16953
particle motion in external electromagnetic field in, Markovian processes for Schroedinger equations for, 24:15636 (INP-681, pp 126-49)
perturbation amplitudes at high energies in, algebraic structure of, 22:3511
perturbation corrections to g tensor in, 22:41703
perturbative S operator in arbitrary, formalism for, 23:25692
photon beam interactions in electromagnetic field, induced splitting in, 21:21299
photon coalescence in nuclear Coulomb field, (T), 21:9736
photon interactions $\gamma + \gamma$ in uniform electromagnetic field in, Schwinger formulation for coalescence from, 21:27423
photon interactions in, correspondence principle for, 21:9843
photon interactions in, vacuum polarization tensor for, 25:1598 (NP-18473)
photon production in, theory of sources for, 24:5263
photon propagator in, $\mu^+—\mu^-$ pair production in electron reactions with carbon at 4.9 GeV for test of timelike, (E), 24:37605
photon propagator in, vacuum expectation values as indicatrices of maximal regularity for, 25:53319
photon propagator of, renormalization group for logarithmic asymptotic behavior of, 22:37189
photon propagators in, 22:50443
photon scattering at high energies in, impact diagrams for, 24:24299
photon self-energy graphs in, logarithmic asymptotic behavior of partial sums of, 23:46816
photon self-energy graphs in, renormalization group for asymptotic behavior of, 22:15840
photon self-energy in, overlapping divergences in, 21:13733
photon spin formalism in, 25:17572
photon structure as composite particle in, 21:33768
photon theory in, chilar-symmetric, 21:17171
photon wave function renormalization constants in, functional relations for, 25:9848
physical states in, subsidiary condition for defining, 22:44482
pole model with indefinite metric in, relativistic complex, 24:45611
Pomeranchuk trajectory as moving Regge pole from high-energy amplitude in, 24:24445
positronium singularities in, perturbation theory for, 22:29751
potentials in, introduction of electromagnetic, (T), 21:4003 (INP-494/PL/PH)
potentials in, role of, 24:35704
potentials in, Z = 0 condition from singular, 21:27425
predictions for aymmetric electron pair production in photon reactions with carbon at high energies, test of, (E), 23:23340
predictions for timelike electron four-momenta below 1 GeV in wide-angle bremsstrahlung from electron reactions with carbon below 9.5 GeV, (E), 23:14953
predictions from fine structure constant, ac-Josephson-effect determination of e/h for evaluation of, 25:45799
predictions from $\mu^+ + \mu^-$ production in photon reactions with carbon, (E), 24:51898
predictions of, use of electron—positron interactions for testing, 21:21153 (CEAL-TM-153)
production amplitudes in high-energy limit, impact factor representations for, 24:26399
propagators for electrons and photons in, validity at small distances from macrocausal, 24:3751
propagators in, analytic functionals for momentum-space representations of causal, 22:35076
properties of the discrete and continuous spectra of the radial Dirac equation, 23:40139
quantization conditions for particles with magnetic and electric charge, 24:15440
quantization of free electromagnetic field in Landau gauge in, canonical, 22:9672
quantization of zero-mass fields in, Poincare covariant, 25:12259
quantization with only physical photons in, covariant theory of, 24:40465
quantized fields in, mass dependence on, 24:49588
quantized flux representation for charged leptons in, space—time description for, 24:8720
quantum correlation effect for fields in, 25:50174
quantum mechanical theory for, 22:26710
radiation emission in, spontaneous, (T), 23:1146
radiation gauge fields in, Lorentz transformation laws of interacting, 24:40458
radiative corrections for gphi^3 model to sixth order, computation of, 22:3513
radiative corrections for gphi^3 model, method for computing higher-order, 22:3514
radiative corrections in, 22:22437 (CONF-670923-, pp 32-47)
radiative corrections in, 23:34557
radiative corrections in, (T), 23:9015 (TID-24667, pp 219-30)
radiative corrections in, LISP language for Feynman diagrams for renormalized, 24:18265 (CNRS-CPT-69-P-317)
radiative corrections to eikonal functions in massive, 25:25500
radiative corrections to electron scattering, 23:15040
radiative corrections to, computer programs for renormalized, 25:20055 (CNRS-CPT-70-P-335, pp IV.26-38)
radiative processes in cosmology, (T), 23:34249
radiative processes in, direct interparticle action in relativistic, 25:17564
ratio e/h in, determination using Josephson effect, 25:33829
reformulation in Lorentz gauge, equivalence to Coulomb gauge, 23:42737
Regge cut in $\pi^- + p$ and $\pi^+ + p$ interactions at high energies in, 23:51987
regularization through nonpolynomial Lagrangians, 25:7709
relation to classical electrodynamics with random fluctuating field, 23:3799
relation to cosmology, (T), 22:41171
relation to steady-state cosmology, (T), 23:48695
relation to steady-state cosmology, (T), 24:46988
relativistic eikonal expansion in, 23:34675
renormalizability in, consequences of, 23:13129
renormalization constant in spin-zero, fourth order calculation of divergent part of, 25:1612
renormalization constant in, model with no photon self-energy insertions for coefficient of logarithmic divergence in, 25:20062
renormalization constants in, asymptotic form of n-th order Spence functions for, 24:20220
renormalization group for null-mass, exact content of postulate for, (T), 24:45587
renormalization group in, extension for perturbation development of electron and photon self energies, 21:44312
renormalization groups for photon field and electron masses in, structure of constants Z_3 and m_0 from, 23:46799
renormalization groups in, global solutions in, 24:15656
renormalization groups in, perturbative solutions of, 25:36565
renormalization in model, higher-order contribution to divergence in Z_3, 21:40275
renormalization in, consequences of, 25:9861
renormalization of axial-vector vertex in spinor, 24:26482
renormalization of regularized, finite-part integration rules for, 23:23538
renormalization of vector-meson field theory for, 23:36983
renormalization phenomena in electron—photon scattering, 21:2019
renormalization with finite value of invariant cut-off in, meson (μ) and electron mass ratios for, 23:51989
renormalization with parity conservation, mass, charge and wave function, 24:15648
renormalization with subtractions for, 23:42718
renormalized field operators in, perturbation expansions for, 24:6753
research on low-energy, review of, 22:22437 (CONF-670923-, pp 32-47)
research on, review of, 22:11568 (SLAC-PUB-370)
research on, review of, 24:37678 (SLAC-PUB-746)
research on, review of status of, (E/T), 23:51876 (DESY-69/21)
research program at Stanford Mark III linear accelerator, 22:37628 (ISS-68/1)
review on, 25:30978
review on current status of, 22:53020
review on status of, 24:24424
S operator in, formal coupling of, 21:9849

S-matrix formulation of, gauge transformations in, 22:20324
S-matrix in, Fermi—Gupta and Schwinger—Bleuler subsidiary conditions for, 23:46789 (JINR-P2-4564)
S-matrix theory for results of, 22:20179
scale invariance and effective cut-off in, broken, 25:41069
scattering amplitude in massive-photon, eikonal representation for, 25:33854
scattering amplitudes at infinite energy in, 23:32655
scattering amplitudes at infinite energy in, implications for hadron interactions, 25:1600
scattering amplitudes in Coulomb and Feynman gauges in, functional description of, 25:20092
scattering amplitudes in, Furry theorem for, 22:20322
scattering amplitudes in, operator-droplet model for, 25:9860
scattering amplitudes near threshold in massive, high-energy behavior of, 25:7592
scattering by nonphysical potentials in, analyticity in coupling constant for, 23:19004 (ITF-68-46)
scattering cross sections in, functional calculus for infrared divergence of, 23:42726
scattering in, potential model for, 25:22706 (DESY-70/67)
scattering operator in, matrix elements of, 23:5677
scattering wave functions in Coulomb and Lorentz gauges for, 25:1611
Schroedinger stationary-state equation for dressed vacuum state in, 23:1681
Schwinger terms and interaction Hamiltonian in, 23:3805
Schwinger terms in fermion, 25:9852
Schwinger terms in second-order, singularity structure of causal distributions for, 25:12133
Schwinger terms in spinor, nonexistence of, 24:37861 (RLO-1388-576)
Schwinger terms in spinor, nonexistence of, 24:47497
Schwinger terms in, equal-time pseudolimits of current commutators in perturbation theory for, 23:46817
Schwinger—Dyson equations in, perturbation expansion of, 22:50440
self-consistency in, renormalization functional relations for, 25:9848
self-energy diagrams of vector, 23:36916
self-mass and charge in, infinitesimal nonlinear interactions for, 24:43020
signal propagation in nonlinear, time-dependent space—time metric and selection principle for exclusion of nonlinear Lagrangians for velocity of, 23:42714 (JINR-P2-4605)
singularities in spinor and scalar massive, promotion and threshold, 25:14792
soft-photon asymptotic states in, reduction formulas for, 23:3802
space—time correlation functions of electromagnetic fields in blackbody radiation, relativistic aspects of, 21:18844
spectrum of the energy operator for atoms with stationary nuclei, 21:610
spinor field interaction with electromagnetic field in gauge-independent, 23:1686
symmetry breakdown in, spontaneous, 25:53326
symmetry breaking in, spontaneous, 22:3480
symmetry breaking in, spontaneous, 24:6741
test at small distances, experimental, 23:10740
test at small distances, yield of electron—positron pairs in $\gamma + C \rightarrow e^- + e^+ + C$ interactions for, (E), 23:3806
test from 2S—2P energy-level transition in muonic hydrogen, 23:36981
test from angular distribution in $e + e$ interactions at 2 x 43 to 2 x 160 MeV, (E), 22:20109 (NP-17322)
test from differential cross sections for $e + e$ interactions at 1112 MeV, 25:38702
test from $e + e$ interactions at 2 x 43 to 2 x 160 MeV, spark chamber study of, (E), 22:13712
test from $e^+ + e^- \rightarrow e^+ + e^-$ interactions at 1.4 to 2.4 GeV, (E/T), 25:38636
test from $e^+ + e^- \rightarrow e^+ + e^-$ interactions at 2 x 510 MeV, (E/T), 24:30486
test from $e^+ + e^- \rightarrow \gamma + \gamma$ interactions at 1.4 to 2.4 GeV, 25:47712
test from electron pair production in photon reactions with hydrogen and carbon, 24:32997
test from $\gamma + p \rightarrow \mu^- + \mu^+ + p$ interactions, (E), 23:10739
test from $\mu^+\mu^-$ production in photon reactions with carbon at 10 GeV, (E), 24:32959
test from photoproduction of electron—positron pairs on carbon, 23:7169 (DESY-68/55)
test from spark chamber study of $e^+ + e^- \rightarrow \mu^+ + \mu^-$ interactions at 2 x 290 to 2 x 352 MeV, (E), 24:6690 (LAL-1222)
test from virtual photon Compton effect in $e + p \rightarrow e + p + \gamma$ and $\mu + p \rightarrow \mu + p + \gamma$ interactions, 22:48256 (LNF-68/38)
test from wide-angle bremsstrahlung production in $e + p \rightarrow e + p + \gamma$ interactions, (E), 23:13019
test in asymmetry of μ pairs in $\gamma + p \rightarrow \mu^- + \mu^+ + p$ interactions, (E), 22:39232 (AD-668169)
test in Bhabha scattering, 24:24211
test in cross sections and luminosity of Bhabha scattering at 0 to 500 MeV at large angles in colliding beams, (E), 25:53296
test in cross sections, angular distributions, and luminosity of $e^+ + e^- \rightarrow \gamma + \gamma$ interactions at 2 x 0.7 to 2 x 1.2 GeV, (E), 25:45796 (LNF-71/16)
test in proposed search for heavy meson (μ) from wide-angle bremsstrahlung emission from meson (μ) reactions with nuclei at 100 GeV/c, (E), 24:6746 (PURC-2137-15)
test in spark chamber and scintillation counter study of cross sections of $e^+ + e^- \rightarrow e^+ + e^-$ interactions at 2 x 510 MeV, (E), 24:5331 (LAL-1221)
test in spark chamber study of Bhabha cross section for $e^+ + e^- \rightarrow e^+ + e^-$ interactions, (E), 24:6690 (LAL-1222)
test in wide-angle $e^+ + e^- \rightarrow e^+ + e^-$ interactions at 2 x 0.8 to 2 x 1.0 GeV, (E), 24:47355 (LNF-70/36)
test in wide-angle electron pair production in $\gamma + p$ interactions and photon reactions with carbon above 4 GeV, (E), 23:51839
test in wide-angle $\mu + p \rightarrow \mu + p + \gamma$ interactions, proposed experiment for, 24:51884 (TID-25473(Vol.4), pp 123-38)
test of limits of validity for, review of research on, 21:29421
test of linearity of equations in, from double-logarithmic asymptotics of $e^+ + e^- \rightarrow 3\gamma$ interactions, 23:36890
test of theory for, g-2 experiment for, 21:29419
test of validity at large momentum transfers from $e^+ + e^- \rightarrow \mu^+ + \mu^-$ interactions, 24:47358 (LNF-70/38, pp 21-9)
test of validity from electron pair production in photon reactions with carbon, 21:29624 (NP-16779)
test of, bremsstrahlung in meson (μ) reactions with carbon at 9 to 13 GeV/c in spark chamber for, (E), 23:21154
test of, Compton graph contribution to e^+e^- and $\mu^+\mu^-$ pair photoproduction cross section as, 21:42305
test of, cross sections of $e^+ + e^- \rightarrow e^+ + e^-$ interactions at 1.4 to 2.4 GeV in colliding beams for, (E), 25:41058 (LNF-71/13)
test of, determination of e/h for fine structure constant for, 23:42725
test of, experiments for, 22:5636
test of, feasibility of $\gamma + \gamma$ interaction experiments for, 21:31519
test of, from wide angle electron—positron pair production in photon reactions with carbon, (E), 22:50283
test of, Lamb shift for, 23:36987
test of, proposed experiment using range absorber method for γ reactions with carbon and hydrogen for very asymmetric μ pair production in, 22:44299 (DESY-68/34)
test of, review of experiments for wide-angle high-energy e and μ pair production for, 22:46514
test of, review of experiments on electron and meson (μ) pair photoproduction at high momentum for, 21:31561
test of, review of, (E), 24:51876
testing by atomic-beam techniques, (E/T), 22:15336
tests and theory for, lectures on, 22:46510
tests at high energies, review on experimental, 24:8719
tests in $e^+ + e^-$ interactions in colliding beams, (E/T), 25:52990 (DESY-71/28)
tests of gauge-invariant modifications of, single, double, triple, and multiple Compton scattering for, (T), 23:32805
tests of validity at small distances, μ and e wide-angle pair production for, 22:41846 (NP-17547)
tests of validity of, (E/T), 23:14955
tests of validity of, review of leptonic and atomic, 24:24199
tests of, anomalous magnetic moment of electrqn and meson (μ) as, 22:24722
tests of, anomalous magnetic moment of μ for, 22:46371
tests of, effects of electron form factors in, 21:37753
tests of, evaluation of proposed meson (μ) experiments for, (E), 24:3732 (PURC-2137-14)
tests of, experimental, 21:33641
tests of, experimental, 22:11611
tests of, experimental results for, 22:22276 (CONF-670923-, pp 409-51)
tests of, high-energy experimental, 23:1671 (LNF-68/42)
tests of, hyperfine structure of hydrogen and g - 2 value of muons as, 22:11715
tests of, in time-like region, (E/T), 24:47496 (LNF-70/23)
tests of, low energy, 22:17845
tests of, precision measurement of orthopositronium decay rate for, (E), 23:42544
tests of, proposed experiments for, 24:52177 (TID-25473(Vol.4), pp 101-9)
tests of, proposed μ experiments for, 22:22277 (CONF-670923-, pp 494-509)
tests of, relativistic treatment of hydrogen, muonium, and positronium for, 22:46516
tests of, review, 23:30357
tests of, review and status of experimental, 23:13055
tests of, review of experimental, 23:36480
tests of, review of, (E), 23:49198
tests of, review of, (E), 24:52176 (SLAC-PUB-795)
tests of, structure of two-electron—n-photon Feynman amplitude for, 25:30965
theory at small distances, 22:33187 (ISS-66/50)
theory at small distances, field—current identity for hadronic contribution to meson (μ) g factor for, 24:10808 (LNF-69/33)
theory for atoms interacting with radiation fields, 25:7501
theory for coherent light of high intensity, renormalization and Compton scattering in, 21:33648
theory for covariant, ether flow in, 25:36566
theory for finite, six-order contribution to Z_3 in, 21:4109
theory for four-point diagrams in, doubly logarithmic expressions for, 21:4118
theory for gauge-invariant cutoff in, from nonlocal gauge-invariant Lagrangian, 21:19053
theory for gauge-invariant cutoff in, from nonlocal gauge-invariant Lagrangian, 21:7545 (DESY-66/26)
theory for gauge-invariant nonlocal, 22:26692 (JINR-P2-3590, pp 55-8)
theory for higher-order, review of, 25:33804 (ITF-71-5-E)
theory for polarization of particles in $e^+ + e^- \rightarrow 2\gamma$ and $e^+ + e^- \rightarrow \mu^+ + \mu^-$ interactions at high energies, 22:39318
theory for two-particle, electron and meson (μ) properties in, 23:42716 (IS-2085)
theory for wide-angle electron pair production from $\gamma + N$ interactions in, deviations in, 21:40274
theory for, book on unified, 21:29634
theory for, calculation of radiative corrections to sixth order inclusive for lambda/sub phi/^{3} model, 22:13835 (NP-17207)
theory for, covariant pole approximation in, 21:15407
theory for, current commutator consistency in, 21:13721 (AD-640153)
theory for, electromagnetic contributions to μ magnetic moment for validity of, 21:33712
theory for, finiteness in, 21:11807
theory for, lectures on acausality in, 25:47779
theory for, limitations of nonlocal, 22:26690 (JINR-P2-3590, pp 44-5)
theory for, research on, 22:5520 (NYO-3829-18)
theory for, review of fundamental questions in, 22:32078
theory for, S-matrix, 21:11759
theory for, Utiyama identities in, 22:13849
theory for, validity limits from four-leptonic decays of charged mesons (K) and (π), 21:11765
theory for, validity of Sachs—Schwebel, 23:15226
theory for, with strong Lorentz condition, 21:15403
theory of action-at-a-distance, Hamiltonian formulation for two spin-$^1/_2$ charged particles, 21:35341
theory of convergent, for elementary particles, 21:31635
theory of one-electron states with Dirac condition, 22:35106
theory of, based on de Broglie waves, 24:37859(R) (AD-694545)
theory of, experimental tests of, 21:19057
theory of, intepretation of, 22:18016
theory of, Lamb shift experiments and calculations in, 21:19056
theory of, physical interpretation of, 23:13123
theory of, relativistic extension of Wheeler—Feynman, 25:20061
theory of, review of, 25:20081
theory of, review of present status of, 23:36479
theory of, survey, 24:19734
theory of, survey of, 23:13122 (UCSD-10-P-10-46)
theory with electrons and muons, 22:9682
theory with indefinite metric for, formal structure and acausality in, 25:53284
transition probabilities in, spur of product of Dirac matrices for, 24:1648
transition probability in, diagrams and gauge invariance for renormalized, 25:1599 (NYO-3829-55)
triangle diagram in spinor, anomalous field—current and current—current commutators for, 24:3735
triangle graphs in finite-mass, second-order correction to anomaly in, 25:53286
two-body problem in, 25:36567
two-body problem in, quasipotential theory for, 25:53281 (IC-71/75)
two-point function in unrenormalized, perturbation theory calculation of generalized photon and electron, 22:37186
unitarity in, exactly soluble models with complex ghosts for, 25:33800
use in hyperfine-structure calculations for positronium, 23:12558
vacuum fluctuations and self energies without mass renormalization in, (T), 23:13128
vacuum polarization corrections to Dirac energy in μ^- mesic atom energy level transitions from 150 to 440 keV, test of, (E), 25:53322
vacuum polarization for strong external fields for energy eigenvalues for electron bound to atom in, self-consistent method for, 25:50175
vacuum polarization in, 22:5644
vacuum polarization in oscillatory gauge in, finiteness of, 22:48355
vacuum polarization tensor and equal-time commutators in, 25:28074
vacuum polarization tensor in, amplitudes for photon interactions from fourth-rank, 25:28070
vacuum structure in, 22:39473
validity at low and high energies, tests of, (E), 25:3438
validity at low momentum transfers, 23:5512 (SLAC-PUB-502)
validity at short distances, symmetry theory for, 21:44418
validity at small distances in μ pair production from γ reactions with carbon at 7 to 9 GeV, 23:30695
validity at small distances, Gell-Mann—low theory for, 23:46798
validity at small distances, macrocausal propagators for electrons and photons for, 24:3751
validity at small distances, use of production yield of electron pairs for testing, (E), 21:9692
validity of, absolute cross section of $e^+ + e^- \rightarrow e^+ + e^-$ interactions at high energies for test of, (E), 24:49569 (LAL-1235)
validity of, analysis of evidence on, 22:3506
validity of, cross sections for $e^+ + e^- \rightarrow \text{phi} \rightarrow \mu^+ + \mu^-$ interactions at 2 x 510 to 2 x 670 MeV for determination of, (E), 25:47934 (NP-18931)
validity of, existence of L particle in $e^+ + e^- \rightarrow \gamma + \gamma$ interaction cross sections for, 23:25493 (LNF-68/63)
validity of, Lamb shift in $n = 2$ level of carbon-12 for, 25:1618
validity of, use of $e^+ + e^-$ interactions for determining, 22:11576
variational principle in Wheeler and Feynman, conservation of energy—momentum of, 23:18969
vertex function in, approximation for asymptotic value of renormalized, 24:10823
vertex function in, asymptotic behavior of, 25:53295
vertex function of spinor, high-momentum dynamics of, 22:46507
vertex functions in renormalizable, small-distance behavior of, 24:33037 (DESY-70/20)
vertex functions in, small distance behavior of, 24:52197

vertex graph contribution to Lamb shift, fourth order, 24:28589
Ward identities for meson mass spectra and leptonic decay constants in, generating functionals for, 24:26425
Ward identities for three-point functions in free-quark models, 23:36989
Ward identities in, anomalies in, 25:20070
wave functions in Coulomb-gauge, equivalence with Landau gauge for external-line, 25:14780
wave propagation in intense electromagnetic field in nonlinear, polarization phenomena in, 25:14793
weak interactions as cut-off for, 24:5338
QUANTUM FIELD THEORY
see also Quantum Electrodynamics
action principle for Lagrangians with higher-order derivations in, 24:13147
adiabatic hypothesis in axiomatic, formulation of, 22:32199
adiabatic transformations in, 23:51982 (NYO-1932(2)-157)
adiabatic transformations in, 25:38777
algebra associated with free relativistic fields in, structure of, 25:28080
algebra of gauge fields for elementary particles, 21:29471
algebraic theory for, Heisenberg ferromagnet in, 25:30946
algebras for, C* and von Neumann, 22:13840
algebras in relativistic axiomatic, equality of local, 25:5407 (JINR-P2-5330)
algebras of observables in, continuous tensor products of Banach, 21:40282
algebras of observables with continuous representations of symmetry groups for, definition of, 22:35095
analytic functionals in, 22:13844
analytic functions in, homological study of, 22:29748
analytic representation of, 23:30792
analytic representations of two-point functions with noncanonical light cone singularities, 23:13120 (JINR-E2-4148)
analyticity and unitarity in nonlinear, violation of, 23:18961
analyticity of axiomatic, 25:1594 (AD-706929)
angular momentum decomposition in spinor, graphical methods for execution of γ- or sigma-algebras for, 22:11603
angular momentum in, separation in spin and orbital parts for total, 22:48357
anharmonic oscillator in, 24:3739
anharmonic oscillator in, analyticity and singularities in coupling constants for, 25:12257
anharmonic oscillator in, divergence of renormalized perturbation theory for, 24:22002
anharmonic oscillator in, large-order behavior of perturbation theory for, 25:50178
anticommutators between interacting fermion fields in relativistic, equal-time limits of, 25:22887
asymptotic condition for, relations for, 21:27424
asymptotic fields in, broken chiral symmetry and transformation properties of, 24:37882
asymptotic states in nonlocal, 23:39787 (ITF-69-26)
asymptotic theorems at high energies in local, validity of, 25:17574
axiomatic method for, dynamics of, 22:44485
baryon octet generation in, bootstrapped symmetries for, 22:24724
Bethe—Salpeter absorptive part equations of nonforward S-matrix elements for particles with spin, Laplace transforms for partial diagonalization of, 25:38802
Bethe—Salpeter amplitude in ladder model, lightlike limit of, 23:8855
Bethe—Salpeter amplitude in, normalization condition for, 25:47945
Bethe—Salpeter amplitudes for bound states in, normalization of, 22:3515
Bethe—Salpeter amplitudes for S-matrix poles for spinless particles, normalized, 23:5694
Bethe—Salpeter amplitudes in static model for boson interactions in, exact, 23:39709
Bethe—Salpeter amplitudes in, normalization of degenerate, 23:5693
Bethe—Salpeter and Lippman—Schwinger equation in, compactness proofs for, 23:46800
Bethe—Salpeter and Lippman—Schwinger equations, compactness proofs for kernels of, 24:13197
Bethe—Salpeter equation as eigenvalue equation for bound-state masses, 25:47945
Bethe—Salpeter equation for anti N + N scattering, O(4) symmetry for, 23:13095
Bethe—Salpeter equation for anti N + N scattering, O(4) symmetry for, 23:15099
Bethe—Salpeter equation for bound state in, solutions of fourth-order, 23:18975
Bethe—Salpeter equation for bound state problem in, numerical solutions of, 24:13159
Bethe—Salpeter equation for bound states with harmonic interaction, 24:49436
Bethe—Salpeter equation for coupling of spin-$^1/_2$ fermion—antifermion system, 24:20208
Bethe—Salpeter equation for equal-mass scalar bosons in, Green function for, 24:20253
Bethe—Salpeter equation for interaction of spin-1/2 particle with scalar particle, 23:46794
Bethe—Salpeter equation for leading trajectory and fireball production processes, 25:5359
Bethe—Salpeter equation for massive meson exchange, two-dimensional, 23:25689
Bethe—Salpeter equation for massless-meson exchange ladder model at vanishing total four-momentum in, vector—scalar sector solutions to spinor—spinor, 25:53329
Bethe—Salpeter equation for N + N interactions, three-dimensional, 24:24393
Bethe—Salpeter equation for relation between SO(1,3) and SO(1,2) crossed-channel partial-wave analyses, 25:20113
Bethe—Salpeter equation for relativistic bound-state problem in, symmetries of, 21:40249
Bethe—Salpeter equation for relativistic two-body problem, 23:18977
Bethe—Salpeter equation for rho + π scattering, solutions to, 23:13094
Bethe—Salpeter equation for scalar particle scattering, analytic properties of, 24:22017
Bethe—Salpeter equation for scattering amplitude in, relativistic Regge formalism from, 23:5692
Bethe—Salpeter equation for scattering amplitudes in Wick—Cutkosky model, 23:39850
Bethe—Salpeter equation for spinor—spinor particle system, O(4) representations for analysis of, 24:18268
Bethe—Salpeter equation for three-point function in single-mass phi^3 boson theory in ladder approximation, compact, 23:10847
Bethe—Salpeter equation for time-independent, 25:1619
Bethe—Salpeter equation for two equal-mass particles in, solution to partial-wave, 23:1683
Bethe—Salpeter equation for two interacting Dirac particles, 23:34551
Bethe—Salpeter equation for two unequal-mass scalar quark interactions with scalar photon exchange in, solutions of, 24:49431 (NP-18418)
Bethe—Salpeter equation for two-body compound systems, 22:18037
Bethe—Salpeter equation for unequal-mass particles, stereographic projection method for, 22:29774
Bethe—Salpeter equation for zero-mass fermion-antifermion system, reduction of, 22:50445
Bethe—Salpeter equation for, N/D method for, 25:9856
Bethe—Salpeter equation in inelastic region, solution of, 21:19059
Bethe—Salpeter equation in ladder approximation for spinless particles, inelastic unitarity in, 21:37912
Bethe—Salpeter equation in ladder approximation for scattering of spinless particles, 22:35104
Bethe—Salpeter equation in ladder approximation of lambda phi^3 theory, daughter Regge trajectory in, 23:10849
Bethe—Salpeter equation in momentum space in, bound-state solutions of, 23:30813
Bethe—Salpeter equation in pion ladder approximation for P- and D-wave states of N + N interactions, 24:1622
Bethe—Salpeter equation in relativistic two-body theory, reduction of, 24:18196
Bethe—Salpeter equation in scalar, for high-energy scattering, 22:3521
Bethe—Salpeter equation in Wick—Cutkosky model, solution of relativistic, 25:25498
Bethe—Salpeter equation in, approximate solution for, 21:40271
Bethe—Salpeter equation in, behavior of Regge trajectories from reality of eigenvalues of unequal-mass, in ladder models, 24:1651
Bethe—Salpeter equation in, bootstrap solutions of, 22:46411
Bethe—Salpeter equation in, derivation of Lorentz-covariant, 25:47347
Bethe—Salpeter equation in, effect of self-energy terms in, 21:33767
Bethe—Salpeter equation in, eikonal approximation for, 22:53018
Bethe—Salpeter equation in, elementary particle poles in, 23:36921
Bethe—Salpeter equation in, general theory of, 24:43013
Bethe—Salpeter equation in, general theory of, (T), 24:40505
Bethe—Salpeter equation in, improvement of Blankenbecler—Sugar approximation for, 25:1606
Bethe—Salpeter equation in, Jost function description for, 24:13145
Bethe—Salpeter equation in, lack of crossing symmetry for scattering amplitude in, 22:18040
Bethe—Salpeter equation in, lectures on normalization of wave function and nonrelativistic limit in, 25:47826
Bethe—Salpeter equation in, method for solving, 25:36568
Bethe—Salpeter equation in, methods for reduction to standard Fredholm form for, 23:15220
Bethe—Salpeter equation in, microcausality and Kramers theorem for bound-state, 24:52193
Bethe—Salpeter equation in, model for relative time in, 22:11724
Bethe—Salpeter equation in, nonplanar graphs in, 25:7752
Bethe—Salpeter equation in, numerical studies of, 23:32804
Bethe—Salpeter equation in, O(5) harmonics for abnormal solutions of, 24:26496
Bethe—Salpeter equation in, operator formalism for daughter Regge trajectories in, 22:3516
Bethe—Salpeter equation in, perturbation scheme modification for quasipotential equation for approximations to, 25:50187 (ORO-3992-36)
Bethe—Salpeter equation in, properties of causal Green's function for, 21:17173
Bethe—Salpeter equation in, reduction to coupled integral Fredholm equations in one variable for, 24:18280
Bethe—Salpeter equation in, Regge daughter trajectories in, 22:3517
Bethe—Salpeter equation in, Regge daughter trajectories in Wick—Cutkosky model of, 22:26705
Bethe—Salpeter equation in, relation between spectra of massless and zero energy-momentum solutions of, 22:53021
Bethe—Salpeter equation in, SO(4,2) representations for, 23:3765
Bethe—Salpeter equation in, spectral functions and expansion in spherical harmonics of, 25:9855
Bethe—Salpeter equation in, survey of theory of, 24:1642
Bethe—Salpeter equation in, theory for, 23:15215
Bethe—Salpeter equation in, theory of multiple poles and coinciding simple poles for, 23:39805
Bethe—Salpeter equation in, tightly bound fermion—antifermion systems from solutions for, 22:15770
Bethe—Salpeter equation in, variational solutions of, 22:35105
Bethe—Salpeter equation of unequal-mass Wick—Cutkosky model in, general solutions for, 21:46585
Bethe—Salpeter equation of Wick—Cutkosky model for unequal masses in, low-energy perturbation method for Regge trajectories of, 24:6751
Bethe—Salpeter equation of Wick—Cutkosky model for unequal-mass scattering, perturbation method for bound-state solutions to, 23:52013
Bethe—Salpeter equation with scalar couplings in, numerical calculations of Regge poles from, 25:43683
Bethe—Salpeter equation, ladder approximation, and Ward—Takahashi identity for composite particles in, 25:3436
Bethe—Salpeter equations for low-energy interactions, approximate solutions to, 22:53019
Bethe—Salpeter equations for three-body amplitudes in, Hoelder—Banach space analysis of, 24:26489
Bethe—Salpeter equations in, nonassociativity of operators in crossing-symmetric, 25:7626
Bethe—Salpeter equations in, normalization conditions for ladder-approximated, 24:10813
Bethe—Salpeter equations in, retardation effects and gauge transformations in, 22:35102
Bethe—Salpeter formalism in, multiple poles in scattering Green function in, 23:39842
Bethe—Salpeter method for multi-Regge bootstrap, 24:18276
Bethe—Salpeter model, scale invariance in, 25:1624
Bethe—Salpeter solutions in, O(5) classification of, 24:15655
Bethe—Salpeter wave function in, normalization condition for bound-state, 23:21149
Bethe—Salpeter wave functions for bound states, 23:16991
Bethe—Salpeter wave functions in, normalization of, (T), 23:16986
Bethe-Salpeter equation in field theories of arbitrary divergence, ladder-approximation solution to, (T), 25:14803
Bethe-Salpeter equation, method of extending Blankenbecler—Sugar—Logunov—Tavkhelidze approximation to, 25:14786
Bethe-Salpeter models for, nonrenormalizable, 21:2514
Bjorken limit in, point-source static model for renormalized field product for, 25:59564
Bogolyubov edge-of-wedge theorem in, formulation of, 24:49572
book: An Introduction to Field Quantization, 23:27854
book: Analytic Properties of Feynam Graphs in Quantum Field Theory, 22:20218
book: Axiomatic Field Theory, 21:11814
book: Classical Theory of Electric and Magnetic Fields, (T), 25:38613
book: Fields and Particles, 23:34650
book: Formulations of Classical and Quantum Dynamical Theory, 25:9840
book: Generalized Feynman Amplitudes, 23:51985
book: High Energy Electromagnetic Interactions and Field Theory, 22:11625
book: Introduction to Quantum Field Theory, 24:15641
book: Introduction to the Feynman Diagram (In Russian) , 25:45821
book: Introduction to the Unified Field Theory of Elementary Particles, 21:29634
book: Lectures on Particles and Fields, 24:42893
book: Lectures on Quantum Field Theory, 21:46588
book: Local Quantum Theory, 24:52181
book: Particles and Fields, 23:1678
book: Particles, Sources, and Fields, 25:9699
book: Propagators for Many-Particle Systems, 24:1674
book: Quanta, 24:45583
book: Quantum Field Theory, Vol. 1, 24:37874
book: Quantum Theory and Statistical Physics, 23:5498
book: Quantum Theory of Many-particle Systems, 25:33819
book: Relativity and Quanta. The Great Theories of Modern Physics (In French), 24:20222
book: Renormalization Theory of Quantum Field Theory with a Cut-Off, 22:5652
book: State Vector Spaces with Indefinite Metric in Quantum Field Theory, 21:46590
book: The Method of Second Quantization, 21:19063
book: The Theory of Spinors, 21:19035
bootstrap equations in, conjectured set of exact, 23:49061 (CALT-68-221)
bootstrap formulation in, 25:33830
bootstrap formulation in local, 25:9690 (NYO-2171-331)
bootstrap formulation with Z = 0 in Lagrangian, 22:17937
bootstrap hypothesis in Lagrangian, formulation of, 22:44487
bootstrap in axiomatic, composite particle states in, (T), 23:13126
bootstrap of composite particles in, 23:16992
bootstraps and composite particles in, 22:13841
Bose fields in, relation with finitely many degrees of freedom for canonical commutation relations representations for, 23:32818
boson and fermion interacting fields on light cone, singularities of commutators for, 24:1639
boson bound states in, binding energy of relativistic two-body, 22:41847
boson field in two space—time dimensions without cutoffs, 25:47948
boson field in, spectrum of Hamiltonian for, 25:47947
boson field in, volume limit of lambda phi^4, 22:35085
boson field interactions with nucleon field in models of, 24:15664
boson field lambdaPHI^3 interactions in two, three, and four dimensions in, 25:7729 (NP-18549)

boson field phi^4 interactions in three space—time dimensions in, exponential representations of canonical commutation relations for, 25:3442
boson fields in, nonlinear chiral symmetry breaking from covariant derivatives of, 25:30922
boson fields in, self-energies of interacting, 24:18269
boson fields under general class of cut-off interactions in, 23:30794
boson fields with bounded interaction densities in, 24:43015
boson fields with phi^4 interaction in three dimensions, 22:53015
boson self-interaction in two space—time dimensions in Yukawa, 25:47952
boson self-interactions in, energy—momentum spectrum and vacuum expectation values for, 25:12269
boson separable-potential model in, effect of CDD poles on asymptotic fields of, 21:42440
boson states in two-dimensional, C^* algebra for, 25:9850
boson—fermion interactions in limit $Z_1 = 0$, Lagrangian density for, 21:7491 (UCRL-14518-T)
bosons in free-, spinless, 22:44420
bound on KSRF relation in, lower, 24:37895
bound states in, 23:27851
bound states in relativistic, quasipotential method for two-body, 24:49616
bound states of relativistic two-particle system, solution of Bethe—Salpeter equation for, (T), 25:20083
breakdown of, Lorentz invariance in special theory of relativity for, 21:37913
C^* algebras for local, nets of, 24:26454
C^* algebras in, 24:26488
canonical anticommutation relations in, quadratic fermion interaction Hamiltonian for, 25:53318
canonical commutation relations and ergodic actions of Euclidean group, 22:18006
canonical commutation relations in, finite-particle representations for, 21:25347
canonical commutation relations in, generalized free fields as cyclic representations of, 25:53313
canonical commutation relations in, irreducible representations and kernel integral formulas for, 24:15666
canonical formalism and solutions in model, 22:18004
canonical representation of SU(n) theory of currents, 24:8710
canonical transformation in, unitarity of Pauli, 22:46496
canonical transformations of, finite-frequency, 23:18958 (ITF-68-29)
canonical variables for infinite systems in, 24:30568
causal propagator as boundary value of analytic function in coordinate space, 23:32806
causality and locality conditions in S-matrix approach to, 23:30796
causality in nonlocal, macroscopic, 22:26689 (JINR-P2-3590, pp 31-7)
causality problems with indefinite metric in, 25:25489 (NYO-3829-58)
causality, locality, general principles, and invariance properties of, 24:5334
CDD poles and asymptotic fields in, 22:9685
charge of composite scalar boson field in, necessary condition for, 21:4110
charge operators in general, rigged Hilbert space formalism for, 25:9838 (NYO-3829-60)
charge operators in local, additivity of conserved, 22:39477
charge renormalization in, electric and magnetic, 21:5421
charge renormalization in, electric and magnetic, 21:5422
charged-particle interactions in external vector field in, symmetric group of solutions for Klein—Gordon equation for, 22:15697
charged-particle motion in field in, Schroedinger equation for, 25:22882
charges and generators of symmetry transformations in Wightman, 25:5416
charges in axiomatic, definition of, 21:42435
Chew—Low model for elementary and composite particles in, 23:49197
classification of particle states in, superselection rules and composite particle hypothesis for, 21:37925
coherent states in, kernel functions for continuous representations for, 25:41062
commutation relation for π field in, PCAC for SU(2) chiral, 24:26471
commutation relation incorporation with field equations, 24:15429
commutation relations and field dependence of vector and tensor currents in, 21:37909
commutation relations and sum rules in, Jost—Lehmann—Dyson representation for, 21:21290
commutation relations between components of current and energy-momentum tensor in external Yang—Mills fields in, equal-time, 25:53351
commutation relations for Fermi field, primary representations of, 25:7723
commutation relations for Heisenberg fields in, derivation of equal-time, 25:30991
commutation relations for local current theories, consistency of canonical, 23:34647
commutation relations for π + sigma interactions and π^2sigma and π^2 sigma^2 coupling in renormalizable, in perturbation theory, 23:39719
commutation relations for renormalized fields in, canonical, 24:1640
commutation relations for variations of canonical moments in, equal-time, 25:43685
commutation relations from orthogonal transformations in, inequivalence of representations of, 25:59567
commutation relations in infinite tensor-product space in, representations of canonical, 22:39466 (JINR-E2-3831)
commutation relations in, decomposition into irreducible representations for canonical, 25:47951
commutation relations in, Garding domain for canonical, 24:10820
commutation relations in, Jost—Lehmann—Dyson representation for equal-time, 22:3519
commutation relations in, nonequivalent representations of, 22:22438 (ITF-67-39)
commutation relations in, nonequivalent representations of, 23:18965
commutation relations in, one-class representations of canonical, 23:16989
commutation relations in, representations of canonical, 25:30948
commutation relations of fields in, representations with cyclic field for kernel integral formulas for canonical, 23:51988
commutation relations of multicomponent fields in, 24:15654
commutation relations of renormalized currents for isoscalar and isovector spin-0 meson couplings in, equal-time, 22:39471
commutation relations on renormalized space cut-off Hamiltonian in, representations of canonical, 25:12256
commutativity in nonrenormalizable Wightman, weak local, 22:9679
commutator anomalies of box diagrams in, Schwinger terms in, 24:13155
commutator function in Kaellen—Lehmann representation for, 21:27426
commutator functions for, theorem for, 25:30952
commutator matrix elements at small distances in, behavior of, 24:37890
commutator matrix elements in, local and unitary approximation to, 25:38779
commutators containing electromagnetic current and energy—momentum tensor in, restrictions of Schwinger terms, 25:25496
commutators for integer spin and nonzero- and zero-mass field, covariant, 25:25504
commutators in axiomatic, equal-time, 25:9837 (ITF-70-57)
commutators in canonical formalism in, equal-time, 25:53311
commutators in Lee model in, equal-time, 21:15409
commutators in, method for calculating equal-time, 22:20321
commutators in, singularity structure of equal-time, 25:43682
commutators involving symmetric energy—momentum tensor, derivation of equal—time, 25:7724
commutators of current densities in renormalizable, equal-time, 24:18274
commutators of fields in, review of gradient terms in, 25:30954
commutators of nonconserved currents in model for π + sigma interactions in renormalizable, equal-time, 22:46398 (DESY-68/37)
complex angular momenta in, conference on, 25:14583(T) (AEC-tr-6882/1)
composite bosons in nonlocal with $Z_1 = 1$, 24:52191
composite particle currents in, dynamical moments of, 22:41844 (JINR-P2-3847)
composite particle parameters from $Z = 0$ conditions in, 22:29752
composite particles in, 21:42439
composite particles in infinite-component, 23:30778
composite particles in, instability of solutions for, 24:3747
composite particles in, propagator and vertex function in Green's function formalism for, 21:7548
composite particles in, properties of, 22:39368
composite particles in, $Z = 0$ conditions in many-channel description of, 23:3804
composite particles in, $Z = 0$ formalism for spin-1 and -$^3/_2$, 25:5417
composite states for four-fermion interactions in, broken symmetries for, 25:1590
composite-particle towers in infinite-component, 21:37911
compositeness and elementarity in Lagrangian, 21:21291
compositeness conditions for partial-wave two-body scattering amplitudes in, 25:30958
compositeness conditions for particles with identical quantum numbers, 23:1682
compositeness conditions of particles with identical quantum numbers, 21:44301
compositeness criteria for particles in, review of, 22:18041
compositeness criteria in Lagrangian, 23:16990
compositeness criteria in, for elementary particles, 21:15410
compositeness criteria in, gauge invariance for, 23:42733
compositeness in, conditions for, 23:18973
compositeness in, Z/sub C/ = 0 condition for, 21:33761
compositeness properties in Lee model in, $Z = 0$ conditions for, 24:10811
Compton amplitude in Jost—Lehmann representation, relation between electromagnetic mass shifts and equal-time commutators for, 22:35083
conference, 23:39626
conference on, 25:12254
conference on nonlocal, 22:26687 (JINR-P2-3590)
conference on particles and fields, 22:17886
conformed symmetry in, low-energy theorems for, 25:30984
conservation law for fermions in parafield theory, 23:21148
conservation laws in, tensorial concomitants for generating, 24:5345
conserved currents and continuous symmetries in local Lagrangian, general relations between, 21:27420
correlation theory of quantized electromagnetic fields in, 23:34639
cosmic-particle creation processes, (T), 22:43763
coupling constant in model of nonrenormalizable, analytical continuation on, 22:48365
coupling constant in nonrenormalizable, asymptotics and analytic continuation in, 22:26699 (JINR-P2-3590, pp 127-36)
coupling constant in renormalizable, analytic continuation in, 22:13834 (JINR-E2-3610)
coupling constant of Yukawa theory equivalent to Fermi theory, 22:39479
coupling model in, N-quantum solution to derivative, 21:966
coupling parameters in vector-meson, current-algebra determination of, 22:5642
coupling-constant analyticity in charged-scalar static model in, 25:14791
covariance condition for, Dirac—Schwinger, 21:35343
covariance in, physical significance of principle of general, 24:13150
covariance in, Poincare commutators for, 23:34646
covariance of, Dirac—Schwinger condition for, 21:37921
covariant theory of spinor, 24:30569
CPT and spin—statistics theorems in local covariant, violation of, 21:37914
CPT covariance for infinite-component fields in, (T), 24:45575 (JINR-E2-5160)
CPT invariance in relativistic, effects of space—time dimensionality on, 23:1676
CPT theorem for infinite component fields in, invalidity of, 23:8843
CPT theorem for infinite-component fields in, invalidity of, 22:41842 (JINR-E2-3854)
criterion for zero-mass particles in, 25:36570
crossing and unitarity relations in, necessity of production amplitudes from consistency between, 21:42376
crossing symmetry and infinite multiplets in, 22:5646
crossing symmetry and spin—statistics connection in, Poincare invariance for, 21:42411
crossing symmetry and unitarity condition in, necessity of production amplitudes from, 21:35344
current algebra breakdown in Lagrangian, 23:23541
current algebra formulation in general, 23:39819
current algebra saturation of sum rules in infinite-component, 23:42734
current algebra validity in axiomatic, 22:22340
current algebras in renormalizable interacting quark model in, 21:13737
current algebras in, differential geometry in Sugawara model for, 24:35695
current and field operators in, light-cone behavior of, 25:41079
current commutation relations for interacting fields in, 23:21151
current commutation relations in general, 21:7555
current commutator in axiomatic, validity of Gell-Mann—Fubini sum rules from equal-time, 25:53305
current commutators in perturbation theory, singular equal-time behavior of, 23:8839
current commutators in second-order perturbation theory in, equal-time behavior of, 23:44707
current commutators in, limitation of Schwinger term in, 21:21295
current commutators on light core, singularities of, 24:52029
current components in, equal-time commutator of axial-vector, 21:9844
current correlation functions in, gauge invariance and Lorentz covariance of, 21:964
current divergences in compound field algebra, Cabibbo angle relation with chiral symmetry breaking in, 23:25668 (CERN-69-7, pp 465-83)
current operations as representations of extended Poincare groups in, tensorial, 23:15179
current operators in, equal time commutators of renormalized, 21:11804 (DESY-66/24)
current operators in, free field bilocal operators from free field, 21:17175
current quantization in Lagrangian, normal product, 25:41059 (NYO-3829-67)
current-density commutators in, equal-time limits of, 25:20076
current-field algebra in Lagrangian, π dynamics in, 22:20323
current-mixing model, spectral-function sum rule, and vector-meson dominance, relation between, 22:46347
currents for spin-0 and spin-1 fields in, 21:5419
currents from Lagrangian for massive gauge fields in, derivation of, 24:3557
currents in Lagrangian, symmetry transformations from local, 24:1643
currents in rho single particle states in, verification of Gross—Callan—Sugawara commutator for, 24:24338
currents in spinor, for amplitude of $\pi^0 \to 2\gamma$ decay, anomalies of, 25:47939
currents in, local one-particle approximations for locally conserved, 21:13722 (DESY-66/31)
currents in, local one-particle approximations for locally conserved, 21:27419
currents in, ordering theorems for, 22:44489
currents in, restrictions on integrals of local, 21:11811
cut-off model, general class of, 24:10819
de Broglie wavefield with spherical symmetry in, solution of equations for, 23:39811
de Sitter group for, 21:42433
density matrices in, diagram method for, 23:5500
derivative-coupling model in, scale invariance and short-distance behavior relation in, 25:7706 (NYO-3829-56)
derivatives of infinite-dimensional free massless fields in, covariant, 25:59582
development, 21:31637
development of axiomatic, 23:49194
differential vertex operations in Lagrangian, 25:45797 (NYO-3829-72)
dilation invariance breakdown and space-time symmetries for, 25:43679
dilaton field in conformally Minkowski space-time, 25:14789
dipole regularization in, analyticity in, 24:24429

Dirac bracket in classical mechanics for vector, symmetric, 24:30584
Dirac equation in, finite- and infinite-component fields and equations generated from, 23:39631
Dirac equation in, generalization of Case's transformation of, 23:30678
Dirac field in, all irreducible representations of Green—Volkov algebra in configuration space for, 23:39814
Dirac field in, quantum theory of free relativistic, 24:43023
Dirac field with anomalous magnetic moment in, energy-momentum tensor of, 25:12251
Dirac field, current commutation relations in free two- and four-dimensional, 24:47500
Dirac fields in, nonlocal representations for energy- and particle-density of, 24:1649
Dirac Hamiltonian and Feynman propagator in relativistic, 23:15228
dispersion sum rules in, 25:33810
dispersive techniques in, formulas for asymptotic behavior of integrals for, 25:22897
dissipative fields in, Lie algebra and Hamiltonian mechanics for, 24:15634
distribution functions in, relativistic-invariant, 21:40268 (JINR-P2-3390)
distribution theory for, Hermite expansions of, 25:17573
distributions in local, class of relativistic invariant, 22:35097
divergences in πN system in finite local, removal of, 25:53324
divergences in, physical interpretation of complex energy negative metric theories for removal of, 23:46790 (SU-1206-200)
divergences in, removal of, (T), 23:16985 (NYO-1932(2)-145)
dual diagrams in, operational formalism for self-energy, 24:15642
dual Feynman theory, spin and internal symmetry in, 24:18241
dual resonance model in, interpretation of, 25:47832
duality in, field—particle, 24:3740
dynamics for local, in two-dimensional space, 23:15208
dynamics of cut-off lambdaphi^4, 21:19064
dynamics relations with physical states in, self-consistency in, 25:43688
Dyson formula for commutator of two quasi-local fields in, generalization of, 23:25687
Dyson model in, renormalized coupling constants and inversion problem for, 21:44450
edge of wedge theorem in, generalized, 22:35101
eikonal approximation and impact picture in phi^3 theory, 25:28045 (DESY-71/6)
eikonal approximation for amplitude of spinless particle two-body interactions, function integration method for validity of, 24:1637 (JINR-E2-4692)
eikonal approximation for Feynman diagrams in, 25:30981
eikonal approximation for Feynman diagrams in, 25:59579
eikonal approximation for high-energy interactions in, 24:13148
eikonal approximation in models for N + N interactions in, quasipotential smoothness in, 25:5387 (JINR-E2-5365)
eikonal approximation in neutral scalar, 25:59569
eikonal approximation in pseudoscalar, 25:53292
eikonal approximation in, Regge cuts in, 25:41071
eikonal model for reggeon calculus in, 25:30980
eikonal, representation in, quasipotential smoothness in, 25:7721
electromagnetic field quantization in, covariant method of, 21:4112
electron currents in, definition of, 23:46807
electron propagator for complex $e^2 2\pi/hc$, analytic behavior of, 22:24723
elementary particle interactions in massive vector fields in, nonrenormalized propagator of scalar, 21:27427
elementary particle production by gravitational fields in, 23:25703
elementary particle Reggeization in model, 21:42442
elementary particle representation in model in, 22:48359
elementary particle structure in, properties of complex mass for internal, 24:52189
elementary particle symmetries from Schwinger action principle in, 22:46499
elementary particles in model in, hermicity or nonhermicity of Hamiltonian for unstable, 22:26708
energy current and stress tensor operators in many-body systems, 21:9687
energy for spin-$^3/_2$ fields in, positive definite, 21:44438
energy levels in nonlinear spinor, instability of nonstationary, 21:967
energy of ground state and global excitation states in Heisenberg-type Spinor, 24:47502
energy operator for variants in neutral scalar, algorithm for eigenfunctions and eigenvalues of, 21:15396 (JINR-P2-3112)
energy positivity and form factor conditions in interaction Lagrangians for tensor for fields in, 24:28588
energy—momentum eigenvectors in axiomatic, generalized, 24:20215
energy—momentum spectra in, annihilator of, 25:28069
energy—momentum spectrum and vacuum expectation values in, 25:53306
energy—momentum spectrum of, 21:19060
energy—momentum tensor for Klein—Gordon field, 23:23525
energy—momentum tensor in, definition of, 23:46807
equation of motion in spin family, solution for general, 21:29465
equations for general relativity theory, 25:45806 (AD-718957)
equations in, N-quantum approximation for solutions for, 21:2451
equations of motion in, observer theories from Stueckelberg, 25:25508
equations of physical field in space—time, 21:7385
equations of, derivation of canonical first-order, 21:4117
Euclidean, comparison with Minkowski approach, 24:52185
evolution equation with time-dependent Hamiltonian in, continuous Baker—Haussdorf formula for solution of, 25:30960
existence of magnetic charge, (T), 21:15240
existence problem in local, review of constructive approach to, 24:5335
expectation functional in axiomatic, operator-valued distributions as quantized fields for continuous, 24:5330 (BMwF-FBK-69-30)
Fermi and Yukawa theories in, equivalence of, 23:39800
Fermi fields in, irreducible representation of canonical anticommutation relations for local, 21:17181
Fermi fields in, quantum theory of free relativistic, 24:43023
Fermi fields with arbitrary mass spectrum in, infinite-component causal, 23:39807
Fermi transformation in, criterion for canonical, 25:5415
fermion bare and physical mass in, relation between, 25:14800
fermion states in two-dimensional, C* algebra for, 25:9850
Feynman amplitude in nonpolynomial Lagrangian, third-order, 25:12266
Feynman amplitude in, analytic renormalization in, 22:50448
Feynman amplitude in, generic, 25:33859
Feynman amplitude in, parametric representations of renormalized, 23:10854
Feynman amplitudes in, differential properties of, 23:34668
Feynman amplitudes in, differential properties of, 23:34664
Feynman amplitudes in, parametric integral representations of renormalized, 23:44704
Feynman amplitudes in, review of, 23:52019
Feynman diagram in, continuation to complex angular momentum of three-particle discontinuity of, 22:44506
Feynman diagram model in, Fubini identities for, 22:15842
Feynman diagram technique for reggions for analysis of branch points in angular momentum plane, 21:44436
Feynman diagrams for general production processes in, multi-Regge model from, 24:18272
Feynman diagrams for Yang—Mills field in, 21:37928
Feynman diagrams in, electric-circuit analogy for high-energy behavior of, 23:34649
Feynman diagrams in, equivalence of perturbation-theory technique and Bethe—Salpeter equation for summation of, 24:40456
Feynman diagrams in, generalized helicity method for calculations of, 24:13154
Feynman diagrams in, infinite products and convergence properties of Reggeized, 24:26483
Feynman diagrams in, leading Landau curves for larger class of, 21:40278
Feynman diagrams in, multiparticle Veneziano formulas for nonplanar, 24:37941
Feynman diagrams in, Reggeized absorption model from, 25:14785
Feynman diagrams in, regularization of three-vertex, 25:59568
Feynman diagrams in, renormalized radiative corrections for, 24:24449
Feynman diagrams with infinite-dimensional representations of Lorentz group O(3,1) in, 23:34641
Feynman diagrams, calculation of sum of very-high-order, 22:32205
Feynman functional integrals for system of indistinguishable particles, 25:25490
Feynman functions associated with sixth order ladder diagram in, homological method for analysis of, 21:42446
Feynman graphs in spinor theory, asymptotics of, 23:30797
Feynman integral in, Feynman-parametric formula for Hankel-transformed position-space, 24:8725
Feynman integral in, relation between absorptive part of scattering amplitude and, 23:39793
Feynman integrals in scalar, k-space method for asymptotic behavior of, 24:37888
Feynman integrals in, homological approach to parametric, 22:15841
Feynman integrals in, homology theory for, 22:13837
Feynman integrals in, renormalization of, 24:6766
Feynman integrals in, structure of singularities of, 23:18964
Feynman method of Green function for removal of Klein paradox in barrier scattering, 25:1659
Feynman parameter representation of perturbation diagrams for, 23:15231
Feynman parameter representations for momentum and configuration-space diagrams in, 23:15233
Feynman parameter representations in, renormalization procedure in, 23:15232
Feynman path integrals in, stationary phase approximation of, 21:15411
Feynman relativistic amplitudes in, algebraic topology methods for, 24:33062
Feynman rules for electromagnetic and Yang—Mills fields from gauge-independent, 23:5676
Feynman rules for free fields for arbitrary spin, 23:36992
Feynman rules for gravitational fields from coordinate-independent, 23:5685
Feynman rules for infinite multiplets in, 23:1680
Feynman rules for Reggeons, formulation of, 22:26707
Feynman rules for S-matrix elements for scattering processes, 23:15210
Feynman rules for Yang—Mills field, canonical quantization method for derivation of, 25:53294
Feynman—Dyson rules from unitarity and self-consistency in, 21:27430
Feynman—Gell-Mann equation in, 24:24431
Feynman-diagram models of Regge and multi-Regge couplings, 22:26726
Feynman-like diagram in harmonic oscillator formalism, factorization and duality of, 25:3443
Feynman-like diagrams compatible with duality in, using Veneziano representation, 24:3733
Feynman-like diagrams in, primitive graphs of dual theory for, 24:28590
Feynman-like duality diagrams, Regge cuts from, 24:18301
Feynmann rules for dynamics at infinite momentum in, 21:965
field algebra and effective Lagrangians, relation of Ward identities to, 24:8716
field algebra for Arhoπ system, hard-pion calculations in, 23:32721
field algebra for fermions, 24:45584
field algebra in Stueckelberg formalism for vector fields, 23:39790
field algebra of broken chiral symmetries, spectral-function sum rule from, 24:13139
field algebra of broken SU(3) symmetry, ω—phi mixing and spectral-function sum rules in, 23:46774
field algebra of broken SU(3) x SU(3), Sugawara model and contribution of kappa in, 24:13131
field algebra of SU(3) x SU(3) chiral symmetry, effective Lagrangian for, 24:15649
field algebra SU(3) x SU(3), Weinberg second sum rule in, 23:18980
field algebra with chiral symmetry, effective Lagrangians in, 23:27847 (DESY-69/13)
field algebra, comparison of gauge and quark, 24:8600
field algebra, equal time commutators and energy-momentum tensor for, 24:3556
field algebra, review on, 25:59324
field algebras on light-like slabs, 24:26495
field and particle coupling in, 22:26702 (JINR-P2-3590, pp 211-27)
field as wave function in relativistic quantum mechanics, classical two-component spinor, 25:17562
field associated with SO(3) group in, nonstationary Yang—Mills, 25:14779
field averaging over energy variable in axiomatic, Fourier transformed, 23:42722
field classification in terms of scalar fields in one space and one time dimension, 22:39467 (MATSCIENCE-59)
field commutant in, criterion of algebraic closeness of, 25:9844
field coupling in two dimensions in, Yukawa, 21:42436
field dependence of vector currents, 24:49585
field dimension for gravitational vertex function, 25:22885
field emission in perturbed scattering model in, three-dimensional, 25:12178
field equation conformal behavior relation with strong interactions, 25:7728
field equation for elementary domains and particles, 23:7174
field equation in SL(2,C) x D x O(3), mass spectra and wave functions from, 25:9853
field equation in, hyperbolic folding of solutions for general, 21:21297
field equation in, one-dimensional Klein—Gordon, 24:15660
field equation of motion in, nonperturbative solution of, 25:47944
field equation of motion, unitarity condition for spin-family solution of, 22:24720
field equation relation with Riemann curvature tensor in, de Broglie wave, 25:7712
field equations for arbitrary spin, covariant, 21:29633
field equations for arbitrary-spin and zero-mass particles, conformal covariance of, 24:35703
field equations for currents, 23:15203
field equations for higher spin systems, 21:2515
field equations for higher-spin particles, Weinberg, 22:53017
field equations for proper vibration of space in, de Broglie, 25:7711
field equations for self-interacting boson field in two-dimensional space—time in, 24:49582
field equations for, invariance postulate for variational calculation of, 22:37187
field equations in de Sitter space, 24:3748
field equations in first and second, conformal covariance of, 25:7728
field equations in local relativistic, dilatation covariance for, 23:46792
field equations in nonlinear, localized periodic solutions to, 21:7552
field equations in Thirring and Federbush models of, nonlinear semigroups for, 25:30972
field equations in, Adler divergence condition from, 23:18979
field equations in, approximate conformal covariance of, 25:36561 (JINR-P2-5716)
field equations in, conform group for covariance of null-mass, 23:34638
field equations in, de Broglie-wave, 24:1652
field equations in, equivalence of Bargmann—Wigner—Salam equations and five-dimensional, 23:46791
field equations in, extremum principles for, 25:17567
field equations in, fixed-point methods for local, 22:13842
field equations in, Green function of bilocal, 22:35080
field equations in, quantization of $m^2 < 0$, 25:30985
field equations in, SO(n) symmetric, 22:44490
field excitations in, gradient invariance in theory for Yang—Mills, 22:9674
field functionals in, symmetry conditions on nonlinear spinor, 25:14782
field in, Borchers class of local, 25:36569
field in, conform group of space—time curve for associated Yang—Mills, 22:24718
field in, criterion for free character of Wightman, 22:13852

field in, free relativistic multipole, 22:11726
field in, geometrization of complex scalar, 22:18010
field in, high-energy behavior of strictly localized, 21:37924
field interaction eigenvalues from analytic properties of complex functions for, scalar and spinor, 24:15699
field interaction in, Hamiltonian for gauge-independent spin-one, 25:9854
field interactions in de Sitter space, spontaneous creation from, 23:39808
field interactions in two-dimensional, composite particles in vector and fermion, 21:27429
field interactions in, algebra of field operators for nonlocal model of, 22:9673
field interactions in, construction of quasipotential in models with two-component spinor, 22:41848
field interactions in, dispersion approach for neutral massive vector—spinor, 23:15198 (ITF-68-24)
field interactions in, electromagnetic and spinor, 21:4120
field interactions in, five-dimensional quantum mechanics for, 22:1490
field interactions in, generalization of Lie algebras for boson—fermion, 22:29642 (ITF-67-21)
field interactions in, interactions-with-derivatives model for exact solution for, 22:29744 (ITF-67-25)
field interactions in, random phase approximation method for scalar, 24:21944(R) (COO-1810-4)
field interactions in, relativistic covariance of, 24:49581
field interactions in, scattering operator for, 24:49578
field interactions with arbitrary tensor field in, Lagrangian formalism for finite-component half-integral-spin and infinite-component, 23:46788 (JINR-P2-4515)
field interactions with external time-dependent potentials, 25:9863
field interactions with external time-dependent potentials, existence proofs for unitary operator and stability and causality in, 24:20207 (NYO-3829-44)
field interactions with gravitational fields in, generalization of Kaluza—Klein theory for arbitrary nonabelian gauge group, 23:21161
field interactions with strong external stationary field, indefinite metric for, 25:9864
field length dimensions in local, implications of partially conserved dilatation current and chiral symmetry for, 25:1622
field matrix element relation with phases of two-channel S-wave scattering, 25:5436
field matrix elements in, relation between S-matrix elements on mass shell and singularities of nonrelativistic, 22:39469
field mixing formalism carrying representations of SU(3) for second A_2 in A_2 mass distributions in $\pi^- + p \rightarrow A_2 + p$ interactions, 23:44657 (IS-T-291)
field models in, ultralocal scalar, 25:1617
field of point charge in Yang—Mills, gauge, 22:13845
field operator for composite particles in, finiteness of limiting value of denominator function in Haag-Nishijima-Zimmerman construction for, 24:3558
field operator for Dirac particles in, regularization of two-point functions for, 22:1480
field operator for interacting resonance, 23:44706
field operator for interacting resonances, 23:8837 (JINR-E2-4149)
field operator in axiomatic, domain of time-averaged, 22:11725
field operator representations in exponential Hilbert space, 24:20209
field operators for composite particles, 24:28597
field operators for composite particles, HNZ construction of, 25:3445
field operators for hadron interactions, bilocal, 25:59583
field operators in Froissart model, nonuniqueness of canonical formalism for, 22:22446
field operators in Lie algebra, construction of, 22:15835
field operators in nested Hilbert space, 21:17169
field operators in, characteristics of coefficients of analysis of, 21:13723 (DESY-66/36)
field operators in, commutation relation of, 23:10851
field operators in, description of all self-adjoint extensions of, 21:21288 (NP-16674)
field operators in, linear transformations of, 21:11805 (NP-16460)
field operators in, matrix representation of, 21:37926
field operators near light cone, expansions of products of, 25:25506
field operators of neutral vector mesons for hadronic electromagnetic current, 22:5542
field products at short distances in, (T), 24:28594
field products in Thirring model of self-interacting massless spinor field in, normal, 24:30558
field products in, logarithmic behavior in short-distance, 25:9865
field quantization algebra for, SL(2,C), 25:25493
field quantization and particle creation in expanding universes, spin-$^1/_2$, 25:14788
field quantization and statistics for, methods for generalizing, 21:9850
field quantization for construction of convergent, 24:43019
field quantization for interacting spins in electromagnetic, simple method for, 23:36993
field quantization for spin-half particles with infinite maximum occupation number, 25:20079
field quantization in, Kademova—Kraev method of, 25:47941
field quantization in, method for relativistic, 25:53321
field reduction to Heisenberg operators for interpolating, 25:5431
field renormalization in axiomatic and Lagrangian formalisms in, scalar, 22:22439 (ITF-67-40)
field renormalization in axiomatic, model for, 22:13832 (ITF-67-28)
field renormalization in, compositeness criterion on unphysical sheet for, 21:37927
field renormalization in, spectral representations for, 22:13833 (ITF-67-29)
field rotation in, semiclassical radiation theory for, 23:42719
field superpropagator with exponential coupling in, 24:43010 (DESY-70/26)
field symmetries in, 24:13160
field with nonstatic source in, model for scalar, 22:13853
field with parameter in, asymptotic condition for, 23:30812
field with spin 3/2 in, Stueckelberg formalism for Rarita—Schwinger, 23:15199 (ITF-68-42)
field—current identities between fields of scalar mesons and dilatation current divergence, 25:7726
field—current identity and chiral dynamics predictions for $K \rightarrow \pi + l + \nu$ decay form factors, 24:26412
field—current identity for interacting fields, 24:37895
field—source identity for stress tensor for spin—two mesons, 25:1608
field—source identity in theory for spin-2 mesons in, 25:33728
field-algebra current commutators for energy—momentum tensor of hadrons, test of, 22:41851
field-current algebra for mass relations between vector and axial vector mesons, 22:29688
field-current identities for intermediate bosons, 22:26703
field-source identity for stress-tensor equal-time commutation relations for spin-2 meson interactions in, constraints from covariance conditions on, 24:15554 (NYO-2262-TA-215)
fields as cyclic representations of canonical commutation relations in, generalized free, 25:53313
fields for hydrogen atom with internal SO(4) symmetry in, review of wave equations for infinite-component, 24:5333
fields for massless continuous-spin particle interactions in, 25:38783
fields from local observables in axiomatic algebraic theory with superselection rules in, 25:5414
fields from local observables in, axiomatic algebraic theory of superselection rules for constructing, 25:22876 (ITF-70-66-E)
fields in lambda(phi^4)$_2$ with space cutoff, asymptotic, 25:41060
fields in nonlocal, nonlinear interaction Lagrangian for scalar, 23:15200 (ITF-68-55)
fields in two dimensions in, Lorentz and Poincare group theoretical structure of free, 24:28595
fields in, analytic properties of nonstrictly localizable, 25:20063
fields in, apparent weakening of locality condition for, 22:35088
fields in, asymptotic completeness of local, 23:32817
fields in, basic nonlinear functions in general space—times for construction of nonlinear relativistic, 24:20214
fields in, broken scale invariance with anomalous dimensions for, 24:35692 (SLAC-PUB-737)
fields in, C^* dynamics for construction of nonlinear relativistic, 24:20216
fields in, connection between spin and statistics for local, 21:33762
fields in, Dirac spinors, covariant currents, and Lorentz group over finite, 22:35072 (RT/FI-(68)6)
fields in, equivalence of Lorentz and Foldy—Wouthuysen transformations for free spinor, 25:56554
fields in, Euclidean invariant interaction Hamiltonian for certain nonrelativistic quantized, 22:35092
fields in, even canonical anticommutation relations algebra for models of free, 22:35087
fields in, gauge potentials in Riemann space and anholonomic bases for spin connections as, 24:40454
fields in, gauge-invariant observable algebra in sector of zero-charge states for construction of charge-carrying, 24:15657
fields in, general theory for, 22:3520
fields in, generalized Bose operators in Fock space of single Bose operator for generalized free, 23:39812
fields in, global technique for spinor, 21:46589
fields in, higher-spin, 25:14798
fields in, internal holonomy groups of Yang-Mills, 22:35075
fields in, invariant expansion of solutions for relativistic equation for nonzero mass vector, 23:15195 (IFVE-STF-68-34-K)
fields in, Jost—Schroer theorem for zero-mass, 23:30793
fields in, Lagrangian formalism for neutral massive spin-3, 25:56548 (ORO-3992-1)
fields in, limiting process of cutoff and auxiliary, 22:32204
fields in, linear representation for relation of original free fields with symmetry-derived free, 24:15637 (JINR-E2-4832)
fields in, method of determination of S-matrix in two-dimensional space for nonlinear Born—Infeld, 22:18032 (JINR-P2-3662)
fields in, noninteraction theorem for class of Bose, 24:35702
fields in, nonsteady-state solutions of nonlinear equations of scalar, 22:22461
fields in, normal form of operators in Fock space for expansion of out-fields in in-fields for, 22:26685 (JINR-P2-3739)
fields in, parastatistics from local observables in para-Fermi, 24:52198
fields in, positive functionals of test functions for, 22:35098
fields in, review of CPT, spin, statistics, and consistency problems for local infinite-component, 25:30950
fields in, review of self-coupled representations of Lorentz group for infinite-component, 21:46579 (CTS-HE-67-6)
fields in, solutions of coupled scalar-metric, 25:1625 (AD-706881)
fields in, spin-$^1/_2$ fermion interactions with external electromagnetic field in two-component spinor, 25:17562
fields in, states on Clifford algebras formed by field variables of fermion, 22:35086
fields in, strong limits of interpolating fields for in—out, 25:5431
fields in, test algebras for Haag—Araki, 25:30951
fields in, Wick theorem for Heisenberg, 22:13831 (ITF-67-27)
fields of mesons in, transversality condition for relation to SU(2) x SU(2) chiral symmetries for vector and axial-vector, 25:14804
fields of unstable particles in, nonunitary representations of Poincare group for, 23:18972
fields with 2(2 + 1) components in, bilinear expressions for, 23:21064
fields with arbitrary spin in (s,s+1) + (-s,s+1) representation, massless, 24:1647
fields with local observables for polynomial behavior of amplitudes of two-body interactions of neutral spinless particles at fixed momentum transfer, 24:1667
fields with noninvariant interactions in, classical framework for gauge, 22:29747
fields with nonlocal interaction in, asymptotic, 23:15219
fields with spin in, unitary representations for Lorentz group for relativistic equations for, 22:20343
finiteness of renormalizable and unrenormalizable, analytic regularization for, 24:6750
fireball production in p + p interactions in, 23:32754
formal series in, 24:49571
formalism at infinite momentum, 23:15002
formalism based on fermion fields for elementary particles, 25:53304
formalism for abelian Wightman fields, 23:21155
formalism for autocomposite isomultiplets, 22:24725
formalism for Bargmann—Wigner fields, electromagnetic interaction in Lagrangian, 22:15844
formalism for c-number generating functionals of, 23:44714
formalism for current algebra and sum rules, canonical, 23:32812
formalism for currents, 23:23539
formalism for derivation of Fermi rule of time-dependent perturbation theory, 25:14775
formalism for equilibrium properties of system of interacting bosons, 23:15224
formalism for finite-component half-integral-spin and infinite-component fields in, Lagrangian, 23:46788 (JINR-P2-4515)
formalism for free 2(2s + 1)-component, spinor, (T), 22:50442
formalism for free fields in, Clifford algebras for, 25:59563
formalism for free massless fields, Lorentz group representations in, 23:32811
formalism for identical particles in parafield theory, 24:33043
formalism for infinite-component, 22:39476
formalism for interacting Rarita—Schwinger field, 23:15207
formalism for interacting tachyons, 23:3801
formalism for interactions of massless spinors in two dimensions, 21:33760
formalism for lattice vibrations in harmonic approximation, 23:5671
formalism for localizable and nonlocalizable, 25:14806
formalism for massive gauge fields and associated pseudoscalar mesons, 23:44645
formalism for massive Rarita—Schwinger fields with spin 5/2 in, Lagrangian, 21:29626
formalism for massive Yang-Mills gauge field in, group geometry for effective Lagrangians in, 25:14805
formalism for massive Yang-Mills, generalization of Stueckelberg, 21:27428
formalism for meson fields with Hamiltonian as time-dependent quadratic form of coordinates and momentum, 22:26637 (JINR-P2-3590, pp 183-93)
formalism for noncompact symmetry groups, 21:13715 (IFA-FT-62)
formalism for particle multiplets of arbitrary mass, spin, and statistics, 21:19058
formalism for particles with electric and magnetic charges, 23:15211
formalism for photodetector correlations, 22:23302
formalism for pole-type ghosts, 23:39791
formalism for quantized fields associated with annulus-type medium, canonical, 25:56563
formalism for quantized fields associated with two-dimensional medium, operator, 25:41063
formalism for quantized fields in two-dimensional medium, canonical, 25:41064
formalism for Rarita—Schwinger, with spin 3/2, 21:35342
formalism for scattering of unstable particles, 25:50176
formalism for SL(6,C) quark fields, combined Lorentz and SU(3) symmetry in Weinberg, 22:15830
formalism for spin-2 fields in, Lagrangian, 21:17170
formalism for static Maxwell—Einstein—Klein—Gordon fields, 23:21156
formalism for statistical mechanics, 24:20197
formalism for stochastic interacting field, 22:15843
formalism for unified, for pseudoscalar mesons, 23:5608
formalism for, c-number generating functionals in, 22:35071 (LPTHE-TH-68/6)
formalism for, modified canonical commutation relations in, 21:33766
formalism for, non-Hilbert space, 21:7551
formalism for, review of new developments in, 23:15201 (ITF-68-62)
formalism in de Sitter space—time for, 22:35070 (JINR-P2-3777)
formalism in infinite momentum frame, mass-squared operator in, 23:32810
formalism in space of random coordinates, 22:26696 (JINR-P2-3590, pp 86-91)
formalism in two-dimensional space—time, 22:39474
formalism of 2(2S + 1)-component free quantized spinor fields in, using group theory and theory of functionals, 21:7547 (JINR-P2-3010)

formalism of infinite-component fields, 22:18008
formalism of infinite-component, completeness relation and mixed mass spectra in, 24:8708
formalism of Lagrangian, for hadronic electromagnetic current, 21:13683 (NYO-1932-116)
formalism of nonlinear spinor, for elementary particles, 21:15280
formalism of relativistic, for composite particles, 22:44343
formalism of spinor, for fermion interactions with bosons at infinite momentum, 24:37878
formalism of two-body theory in, Bethe—Salpeter equation as basis for covariant on-shell and off-shell, 21:42438
formalism of, generalization of field quantization in, 21:13729
formalism of, theory of sources in, 22:48251
formalism with degenerate Lagrangians, 23:18983
formalism with strongly nonlinear bounded Lagrangians for local divergenceless, S-matrix in, 24:10828
formalisms in, 22:18003
formulation as extension of equivalence principle in general relativity theory, 25:1621
formulation for bootstraps, 23:5597
formulation for chiral symmetry in Gursey model, 22:44481
formulation for currents, 22:37190
formulation for description of resonances, 24:15652
formulation for faster-than-light particles, 21:37915
formulation for faster-than-light particles, Lorentz invariance in, 22:50450
formulation for higher spin fields, 23:15230
formulation for infinite-component free field carrying compounds lying on Regge trajectories, 25:38789
formulation for magnetons, 21:29627
formulation for massless particles with infinite spin, 25:45780
formulation for massless particles with infinite spin, 24:47518
formulation for nonlocalized, Wightman, 23:32815
formulation for redundant and composite fields in Lagrangian, 22:11719
formulation for spin-one massive field, gauge-independent, 24:37881
formulation for strong interactions, 22:18000
formulation from fields and nonlinear transformation laws under chiral SU(3) x SU(3), 22:35103
formulation in arbitrary space—time world, system with hamiltonian in time-dependent quadratic form, 21:46583
formulation in arbitrary space—time, system with Hamiltonian as time-dependent quadratic form of position and momentum, 21:25341 (JINR-P2-3223)
formulation in de Sitter space for nonlocal, two-quark interactions for meson (π) in, 22:48304
formulation in deSitter space, 23:30720 (AD-680287)
formulation in Finsler spaces, 23:10852
formulation in Friedman space, 22:22448
formulation in two-dimensional space—time with U(1) x U(1) symmetry, 24:1645
formulation of (phi^4)2 with interaction, review of, 25:12255
formulation of action-at-distance, for particle interactions, 25:56550 (ORO-3992-14)
formulation of asymptotic, 21:27421
formulation of asymptotic, 21:46587
formulation of asymptotic, current formalism in, 22:11729
formulation of axioms in, 21:27422
formulation of Bargmann—Wigner field for spin-$^1/_2$ particles for, electromagnetic interaction in, 21:37908
formulation of bootstrap theory, 23:7173
formulation of convergent, macrocausal propagators with complex masses for, 24:3751
formulation of divergence-free, as distribution problem, 24:6749
formulation of divergenceless, 25:3435 (TPJU-13/70)
formulation of divergent-free, satisfying unitarity, 25:25492
formulation of fields in, harmonic analysis of Poincare group for, 23:32816
formulation of finite, review of, 25:56545 (IC-71/108)
formulation of five-dimensional unitary, in Riemannian space, 22:44488
formulation of free massive vector, 23:5669
formulation of free relativistic multipole field, 22:7550
formulation of functional, for S-matrix, 23:46804
formulation of higher-dimensional, 23:1670
formulation of interpolating fields for V-particle in Lee model, 22:35107
formulation of isovector axial-vector massless meson (π) field in, Stueckelberg, 24:3752
formulation of Lagrangian, equivalent to theory of currents, 22:50451
formulation of Lagrangian, perturbation theory and inversion theorems for Green-function, 22:15839
formulation of Lagrangian, self-generating interactions in Green-function, 22:15838
formulation of lambda phi/sup 2n/, without cutoffs, 24:26492
formulation of lambda(phi^4)$_2$, 24:52184
formulation of local gauge Yang—Mills, for strong interactions, 25:17558
formulation of local infinite-component, Van Hove model of Regge poles in, 25:12246
formulation of local Lagrangian, for electric and magnetic charges, 25:20072
formulation of local quantum fields for particles with different masses and spins, 22:44478
formulation of local, describing interacting two-particle subsystems, 23:21159
formulation of local, review of Haag—Kastler, 22:20310 (INP-555/PH, pp 183-212)
formulation of LSZ, exact, 23:5667
formulation of massless, indefinite metric in, 24:13146
formulation of model in, refined solution of two-dimensional theories for, 21:46581
formulation of natural line width, 21:27437
formulation of non-Lagrangian, simultaneously broken conformal invariance and chiral U(3) x U(3) symmetry for, (T), 24:49567 (IFPTH-7/70)
formulation of nonlocal, for elementary particles extended in space—time, 22:18002
formulation of nonlocal, use of indefinite metric in, 23:15216
formulation of nontrivial, Euclidean-invariant, validity of weak correspondence principle for, 22:20314
formulation of relativistic Lagrangian, for composite systems, 22:44483
formulation of relativistic quark, 22:29743 (DESY-68/11)
formulation of relativistic, for tachyon interactions, 23:30800
formulation of relativistic, with oscillators for modes with positive and negative energies, 23:39797
formulation of self-interacting complex scalar, 22:22443
formulation of self-interacting real scalar, stationary states and classical limit in, 21:42443
formulation of sigma-model for PCAC, 22:11720
formulation of solvable model of, on basis of unitarity condition, 23:18959 (ITF-68-43)
formulation of solvable two-dimensional, based on currents, 22:15846
formulation of spinor, potentials with logarithmic regularization in, 25:12261
formulation of statistical, 24:8724
formulation of strictly localizable, for dual resonance models, 25:1610
formulation of theory of coinciding simple and multiple poles in, axiomatic, 25:1603
formulation of unified, for elementary domains and particles, 23:7175
formulation of unified, for elementary particles, 23:3726
formulation of unitary renormalizable, without ultraviolet divergences, 21:27417 (JINR-E2-3266)
formulation of Wightman axiomatic, in terms of operator Jacobi matrices, 25:53303
formulation of, for electrodynamics, 23:15214
formulation of, functional derivative equation for gA^3 theory in variational, 23:46805
formulation of, generalized method for, 22:29749
formulation of, geometric structure of canonical, 25:30961
formulation of, hydrodynamic, 24:37594
formulation of, stochastic approach to, 24:15651
formulation of, Sugawara current theory and chiral Lagrangian for, 25:22880
formulation of, tempered distributions and departure from superposition principle in, 25:56544 (IC-71/71)
formulation of, variational, 22:7554
formulation on Hilbert space with indefinite metric, complex-energy negative-metric theories for, 24:26481
formulation with indefinite metric and complex energies, 24:43017
formulation with indefinite metric, macroscopic causality-violation in, 24:18270
formulation with non-Euclidean space of relative momenta, 25:30938 (JINR-P2-5717)
formulation with positive semi-definite metrics, 22:32202
formulation with scalar Yukawa interaction, 24:5341
formulation with space-like momentum spectra, 24:43022
formulation without cutoffs for self-interacting bosons, 25:12248
formulations for interacting two-particle subsystems, 23:49200
formulations of four-fermion interactions in, finite, 25:14797
formulations of massive spin-one, equivalence of Weinberg and Proca, 22:29746
formulations of massive vector, equivalent, 25:9858
formulations of model, Hamiltonian, 24:15650
formulations of relativistic and nonrelativistic, 25:3440
formulations of theory of massive field with half odd integer spin in, equivalent, 24:43028
four-fermion interactions with indefinite metric in, finite model of, 25:47772
function field on unparted hyperboloid, set of functions for expansion of, 24:15645
functional equations in lambda phi^4 theory of scalar mesons in, 25:43678
functional integrals for scalar, photon, and spin-$^1/_2$ fields in, generalized Mathews—Salam equations from Feynman, 24:10832
functional integrals in, 23:5672
functional integration method for nucleon elastic interactions with vector mesons and meson production in N + N interactions at high energies in, straight-line particle paths approximation for, 25:17498 (JINR-E2-5217)
functional power series in, Hilbert spaces of, 25:28066
functional techniques in, review of, 25:38784
functionals in, calculation of nonlinear spinor stationary and fermion—fermion scattering, 25:41076
functionals on algebra of test functions in, positive, 25:30944
functions of many complex variables in, book on theory of, 21:4121
gauge field algebra for current-algebra relations in current-mixing model, 23:18984
gauge field in spontaneous breakdown of symmetry, 25:33809
gauge field in, generalized, 21:13728
gauge field in, observation of skew-symmetric tensor, 25:36571
gauge field in, short-range, 21:40273
gauge fields and Goldstone bosons in Nambu model, 24:52194
gauge fields in, algebra of polarizations for, 23:30724
gauge fields in, chiral extension of internal holonomy group for, 25:36575
gauge fields in, chiral symmetric SU(2) x SU(2) Lagrangians with, 24:15614
gauge fields in, effective Lagrangians for massive, 24:47499
gauge fields in, long-range self-interaction of, 23:34648
gauge fields with noninvariant interactions with source fields in, 23:10846
gauge invariance and low-energy theorems for mesons (π) in, 23:42667
gauge invariance and mass in scalar electrodynamic, 23:23540
gauge invariance for charge operator for interpolating Heisenberg fields in, 25:3437
gauge invariance in spinor theories with nonlinear quadratic self-interaction, 25:12262
gauge invariance in strong interactions, 24:3619
gauge invariance of second kind for electromagnetic and Yang-Mills field interactions in, current and field commutation rules from, 24:37887
gauge of Yang—Mills, review of second Noether theorem for local isotopic, 24:24421
gauge theory for four-vector field of mixed spin-1 and spin-0 particles in, massive, 24:3736
gauge theory in, geometric approach to local, 22:53012
gauge transformations and generalized multipole moment operators for fields in, 23:49122
gauge transformations for electromagnetic interactions in, internal symmetries from, 25:59545
gauge transformations in spinor, relation of massless bosons with, 25:45804
gauge transformations in, field algebra for, 23:27846 (DESY-69/9)
gauge transformations in, quantum, 22:5634
gauge transformations in, spontaneous symmetry breaking from constant, 21:31614
gauge transformations in, unitary operator in canonical commutation relations for local, 25:17571
gauge transformations in, Weinberg treatment of SU(2) x SU(2) nonlinear, 24:35700
gauge vector and tensor fields, geometrical description of, 25:36574
gauge-invariant formulation of massive vector fields in, field—current identities in, 23:36985
Gelfand functionals for fields in lattice space in, 22:35100
geometric structure of parity-conserving relativistic, 25:56557
geometrodynamics and superspace in, 23:16998
Goldstone bosons in nonlinear, (T), 24:43030
Goldstone particles in de Sitter space in, 23:34643
Goldstone theorem and broken symmetries in, 22:17981
Goldstone theorem and unsymmetrical vacuum in, 22:18007
Goldstone theorem in models of broken symmetries, 22:17980
Goldstone theorem in, algebraic approach to, 22:15837
Goldstone theorem in, axiomatic approach to, 23:32822
Goldstone theorem in, extensions to chiral SU(2) x SU(2) and SU(3) x SU(3) symmetries for, 24:26494
Goldstone theorem in, spontaneous symmetry breakdown and zero-mass states in proof of, 21:42409
Goldstone theorem in, use of Green function for describing, 23:18976
Goldstone theorem on broken symmetries and massless particles in, corollaries of, 21:9838
Goldstone's theorem in relativistic, proof of, 21:13724 (DESY-66/38)
gravitation field quantization in axiomatic, gauge problem in, 22:20318
gravitational fields in, macroscopic, 22:13857
gravitational potential in, fourth-order, 25:33799
Green function for composite particles in scalar, 21:4009
Green function for relativistic scattering in, infinite set of quasipotential equations from Kadyshevsky, 25:53285
Green function in arbitrary gauge, infrared singularities of, 21:21300
Green function in axiomatic, renormalized and nonrenormalized, 22:32201
Green function in, for describing Goldstone theorem, 23:18976
Green functions for phi^4 coupling in, renormalized integral equations for, 24:40455
Green functions in, 21:4119
Green functions in momentum space for unrenormalized interactions in, method for construction of, 22:26684 (JINR-P2-3727)
Green functions in momentum space for unrenormalizable interactions in, 23:1679
Green functions in theories with non-Abelian gauge group for Yang—Mills field in radiative gauge in, 23:51986
Green functions in, asymptotic behavior of, 21:21298
Green functions in, power of, 23:27853
Green functions in, review of two-body forces and renormalization for singularities of two-point, 25:30959
Grodsky—Streater theorem on infinite degeneracy of mass with spin in infinite-component, 24:13141 (JINR-P2-4812)
group representations for wave functions and quantized fields in, 24:8721
group representations of quantized fields in, continuous tensor products of, 25:30947
group theoretic formalism for quantum fields, 23:5652
group theory dynamics for Fermi, 24:33026
group theory for, implementability of automorphism groups in, 24:10822
Haag theorem for general Wightman, proof of, 22:13850
Haag theorem in, 25:28083
Haag theorem in Jost model of Wightman, proof of, 22:13851
Haag theorem in, generalization of, 22:24717 (NYO-3829-22)
Haag theorem in, proof without locality or relativistic invariance assumptions for, 23:39795
Haag—Ruelle theory for asymptotic fields in, preliminary result for generalization of, 22:39313

Haag—Ruelle theory of asymptotic fields in, generalization of, 22:24727
hadron elastic and inelastic strong interactions at very high energies in phi^3, predictions for, 25:7628
Hamiltonian and Lagrangian formalisms in, 22:22440 (ITF-67-42)
Hamiltonian formalism for arbitrary-spin and nonzero-mass particles, covariant, 23:8838
Hamiltonian in class of models for, 25:47962
Hamiltonian in Hilbert space in, domain of total, 21:13726
Hamiltonian in second quantization, diagonalization method for, 24:43021
Hamiltonian in second quantization, diagonalization method of, 23:39800
Hamiltonian in two-dimensional space—time with quantic interaction, self-adjointness of, 25:47954
Hamiltonian in, perturbation theory prediction of vacuum energy divergence for infinite renormalization of, 24:10833
Hamiltonian in, uniqueness of, 23:44710
Hamiltonians for models in, lower bounds and self-adjointness of, 25:36573
Hamiltonians in Fermi and Yukawa theories, comparison of, 23:3808
harmonic oscillator as limiting cycle for Wheeler and Feynman field in, ground state of, 25:22883
harmonic oscillator model of, Lee—Zumino summation method for perturbed, 24:37871
harmonic oscillators in, orthogonality relations of many time generating functionals, 25:43669
Heisenberg and Schroedinger representations in, analogy with superconductivity theory for difference in, 24:18284
Hilbert space for physical states in, self-consistency in method for constructing, 25:43688
Hilbert space in, representations of symmetries and observables in functional, 25:41074
Hilbert space of entire functionals in, 24:8723
Hilbert space of entire functionals in, triplet including, 24:8722
Hilbert spaces for generalized random fields in, continuous tensor products of, 23:1684
Hilbert spaces for, homomorphisms and direct sum of nested, 21:17168
Hilbert spaces in, weak convergence in infinite tensor product of, 25:33805 (ITF-71-7-E)
holomorphy envelope of four-point function, upper bound for, 23:36988
hyperon decays in Heisenberg nonlinear, 23:42638
hyperquantization method, formulation of, 22:20319
impact picture and eikonal approximation in phi^3 theory for hadron interactions, 25:28011
indefinite metric in relativistic, 25:36564 (ORO-3992-30)
indefinite metric in, analyticity, covariance, and unitarity in, 25:36563 (ORO-3992-26)
infinite momentum limit in, 24:8715
infinite multiplets in, 23:30803
infinite-component fields in, degeneracy of mass spectra for, 24:37898
infinite-component fields in, two-point functions and invalidity of CPT theorem for, 23:3795 (ITF-68-60)
infinite-momentum limit of spinor, 24:13144
infrared divergences in model with degenerated vacuum, partial elimination of, 25:36562 (JINR-P2-5760)
interaction angular momentum in, 23:3660
interactions $\gamma + e \longrightarrow \gamma + e$ in lambda phi^4, scale invariance in Compton, 25:12149
interactions in Lie, absence of, 22:41858
interactions in Minkowski and Euclidean spaces in, dynamics of unrenormalizable, 22:3504
interactions in renormalizable and unrenormalizable, singular, 24:43018
interactions in scalar, LSZ formalism for, 21:25346
interactions in unitary relativistic model of, unrenormalizable, 22:35090
interactions in, conformal covariance relation with gauge invariance of, 25:36561 (JINR-P2-5716)
interactions in, generalized finite-matrix Hamiltonians for, 25:20066
interactions in, Haag theorem for, 21:2513
interactions in, local properties of unrenormalizable, 22:26697 (JINR-P2-3590, pp 96-113)
interactions in, quadratic, 22:1477
interactions in, scalar field and nonstatic source, 21:9837 (JINR-P2-3040)
interactions in, wave mechanical theory for, 25:59563
interactions of Dirac fermions with pseudoscalar bosons at infinite momentum in spinor, 25:14679
interactions of nonzero rest-mass particles in, Green function in theory of local unrenormalizable, 24:10695
interactions of self-conjugate isofermion fields in local, 22:46505
interactions of spinless equal-mass elementary and composite particles in, decomposition into one-particle reducible and irreducible parts for amplitudes of, 24:5259 (NYO-2262-TA-166(Rev.))
interactions of, cut-off Yukawa coupling for construction of, 21:33772
interactions $\pi + N$ at high energies in, 24:5293 (NYO-2262-TA-207)
interactions $\pi + N$ at low energies in static, shadow states for s- and p-wave, 25:47862 (ORO-3992-45)
interactions $\pi + N$ in infinite-component field in, Regge amplitude for, 25:41022
interactions $\pi + N$ in nonlinear phenomenological Lagrangian, 24:5337
interactions $\pi + \pi$ in axiomatic, limits of strength of, 25:30852
internal charge of non-Abelian gauge field, 23:8841
invariance of self-interacting boson field in, dynamic, 22:48368
isospin symmetry in local, C, P, and T transformations for, 22:13791
Jost—Lehmann—Dyson representation in, 24:43025
Kepler problem in relativistic, 25:25495
Klein—Gordon field in, causal behavior of charge density of, 22:7552
Klein—Gordon field with interaction in, probability density for square integrable, 23:30810
Klein—Gordon fields in, analysis of charge-density of, 21:31633
Klein—Gordon multiparticle states for quantized free fields in, measure-theoretic description of, 23:30809
Lagrange formulation for higher spin systems, 21:44441
Lagrange function for low-energy, relation between T-matrix at zero momenta and classical, 22:48361
Lagrangian formalism for infinite-component, 25:33826
Lagrangian formalism for neutral massive spin-3 fields in, 25:56548 (ORO-3992-1)
Lagrangian formalism for neutral massive spin-3 fields, 25:41066
Lagrangian formalism for tensor fields without additional conditions, 23:25685 (JINR-P2-4301)
Lagrangian formalism in broken SU(3), electromagnetic ω—rho mixing in local gauge-invariant, 25:14628
Lagrangian formalism of, relation between current algebras and, 23:18982
Lagrangian formalism with nonlinear nonlocal interaction, 23:10853
Lagrangian formalisms of infinite component, 23:13124
Lagrangian gauge-field model for SU(3) breaking in pseudoscalar—vector—vector meson vertex, 24:8700
Lagrangian in chiral dynamics in, nonlinear, 24:43012
Lagrangian in, group-geometrical formulation of SU(3) x SU(3), 24:37851
Lagrangian in, invariant perturbation theory for nonlinear chiral, 25:59574
Lagrangian model combining chiral symmetry and spin independence, nonlinear, 23:49201
Lagrangian model containing pseudoscalar mesons and baryons, locally-gauge-invariant, 25:7707
Lagrangian model for electromagnetic mass differences and spectral function sum rules, 23:18859
Lagrangian model, field algebra and vector-meson dominance in, 25:14784
Lagrangian of Goldstone particles in, construction of phenomenological interaction, 24:18266 (ITF-69-75)
Lagrangian quantization for charges in external field in, 25:14776
Lagrangian representation of theory of currents, canonical, 22:46504
Lagrangian theories in, review of nonpolynomial, 25:20067
Lagrangian theories in, review of nonpolynomial, 25:47959
Lagrangian theories in, summation of perturbation series for nonlinear, 24:13162
Lagrangian theory for paraparticles, symmetry in, 25:17565
Lagrangian transformations of πN couplings, nonlinear, 24:47451
Lagrangian, for massless bosons, equivalence of Sugawara model to, 24:37893
Lagrangian, generalization on basis of function manifold, 25:59559
Lagrangian, momentum-space amplitudes in, 24:37894
Lagrangians for parton model for interactions at high energies in, nonpolynomial, 25:33574 (INP-713(Vol.2), pp 117-21)
Lagrangians generated by massive Yang-Mills gauge field in, group geometry for, 25:14805
Lagrangians in axiomatic, algebraic concepts for, 25:28084
Lagrangians in nonlocal, convergence of perturbation series for nonlinear interaction, 24:10809(T) (SLAC-Trans-108)
Lagrangians in, analytic regularization of series with devergent terms in, 24:10830
Lagrangians in, construction of phenomenological, 24:18278
Lagrangians in, finite and unitary theory in highest perturbation orders for nonpolynomial, 25:56546 (JINR-P2-5998)
Lagrangians in, improved generator for conformal, 25:43677
Lagrangians in, nonlinear realizations of conformal group for construction of, 24:3710
Lagrangians in, phenomenological, 25:30969
Lagrangians in, regularization of nonpolynomial, 25:53310
Lagrangians in, renormalization of nonpolynomial, 25:50177
Lagrangians in, renormalization of nonpolynomial, 25:56549 (ORO-3992-9)
Lagrangians in, review on nonpolynomial, 25:25494
Lagrangians in, Schwinger and Weinberg classes of chiral, 25:22796
Lagrangians with derivative interactions in, S-matrix elements for nonpolynomial, 25:25497
lecture, 22:5633 (NP-17143)
lectures on, 25:33822
lectures on, 22:13685
lectures on axiomatic, 25:28076
lectures on axiomatic, 25:30940
lectures on axiomatic, 25:30953
lectures on local, 24:52181
lectures on nonrelativistic, 23:5670
Lee model and extended LSZ formalism for bound state and unstable elementary and composite particle scattering in, 24:35694
Lee model for bound states in, $Z_3 = 0$ limits of, 24:15549
Lee model for scattering, adiabatic approach for wave matrix in, 23:46855
Lee model for unstable $N +$ theta particles, 23:36902
Lee model for, Schwinger functional differentiation methods for relativistic, 23:46802
Lee model in, 22:22442 (JINR-P2-3731)
Lee model in all sectors, strong-coupling solution of nonrelativistic, 23:23451
Lee model in Galilean, ghostless, 21:17167
Lee model in momentum space in, solutions for asymptotic fields in, 23:46814
Lee model in, 2V sector of, 22:35077
Lee model in, algebraic solution in V—theta sector of, 22:20327
Lee model in, Bjorken theorem and equivalence principle for equal-time commutators in, 25:30973
Lee model in, bound-state operator in, 22:39371
Lee model in, canonical perturbation theory for nonlinear oscillators for, 25:53330
Lee model in, dispersion calculations in 2V sector of, 23:3800
Lee model in, dispersion relations for three-meson problem in, 24:26427
Lee model in, equal-time commutator and zero-energy theorem in, 22:3301
Lee model in, existence of local Hamiltonian in Galilean invariant, 23:3807
Lee model in, existence theorem for unstable particles in, 23:23534
Lee model in, false poles of scattering amplitudes in, 23:5713
Lee model in, field operator with continuous spectrum of asymptotic energies for N—theta sector in, 25:28067
Lee model in, freedom from ghost states in, 25:38785
Lee model in, Haag theorem for point-coupling relativistic, 22:50446
Lee model in, physical single-particle states in generalized, 23:32821
Lee model in, properties of, 25:59575
Lee model in, relation between mass shifts and scattering phase shifts in, 23:18986
Lee model in, renormalization and composite effects in, 22:44347
Lee model in, renormalization and diagonalization of one-boson, 24:22005
Lee model in, simple algebraic calculation of resolvent in V theta sector of, 25:41075
Lee model in, single-particle state in higher sector of, 25:45798
Lee model in, Tamm—Dancoff method in 2V sector of, 22:46554
Lee model in, third sector of, 22:46390
Lee model in, unified treatment of V—theta and V—2theta sectors of, 25:56553
Lee model in, unstable particles in, 23:25696
Lee model in, V—N potentials in, 23:8794 (COO-1764-1)
Lee model in, V-particle decay in, 24:8729
Lee model with additional coupling, compositeness conditions in, 22:46392
Lee model with arbitrary cutoff in, generalized operators for Ntheta sector of, 25:12263
Lee model with arbitrary number of baryon states, extended, 24:8622
Lee model with ghosts, Levinson theorem for, 23:1723
Lee model with heavy bosons in, LSZ formalism in, 21:21302
Lee model with indefinite metric in, extended, 23:7172
Lee model with symmetry condition in, renormalizability of, 23:34642
Lee model with unstable V particle in, equal-time commutator in, 24:45586
Lee model with $W \longrightarrow V$ theta interaction, solutions of extended, 21:37934
lepton resonances in GeV region in finite, with indefinite metric, 25:50109 (ORO-3992-29)
Lie field structures into nilpotent locally convex Lie algebras in, representations of, 24:3753
Lie fields for elementary particle structure, 23:16942
Lie fields in, 21:42447
light-cone expansion with causality restrictions and conformal invariance, 25:47964
limit $h/2\pi \longrightarrow 0$ in, 23:46795
Lippman—Schwinger equation in, renormalization of singular potential in, 22:41854
local interactions and infinite multiplets in, 21:29631
locality condition for Hermitean, scalar, tempered, apparent weakening of, 22:39470
locality in W* algebraic Haag—Araki, properties of extended, 24:30572
locality in, field algebra and gauge group for observable algebra in, 23:44708
locality in, survey of standard results for, 24:52182
locality of interacting quantum fields for many-particle states with different masses and spins, 23:21150
locality on space of one-particle states in, 23:49195
localizability in, zero-charge in, 22:46509
localizable fields in, generalized functions of type S for, 23:36984
localization for zero-mass particles in, 23:10772
localization in, re-interpretation of, 21:23355
logic structure for formulation of, 23:27861
Lopuszanski theorem in, generalization of, 22:32206
Lorentz covariance of lambda$(phi^4)_2$, 24:43014
Lorentz group representations for free massless fields in, 22:26706
Lorentz invariance and finite self-mass in local, 25:56564
Lorentz invariance in indefinite-metric, 25:20073
Lorentz invariance in two-dimensional, formal breakdown of, 22:44479
Lorentz invariant distributions in relativistic, n-point, 24:10807 (JINR-E2-4734)
Lorentz noninvariance of complex-ghost relativistic, 25:20074
Low equations of symmetric pseudoscalar, stability of solutions to, 23:32735
LSZ formalism in (n,2) sector of Lee model, 25:43673
LSZ formulation for spin-two mesons, 25:59570
macrocausality in, 24:40451
magnetic charge fields with integral spin in, relativistic invariance of, 21:963
magnetic charge in Schwinger, generalization of, 22:39339
magnetic monopoles in, extended, 23:36990

Majorana and Nambu equations with antiparticles in, generalized, 24:49580
Majorana field, formulation of quantum theory of infinite-component, 24:26485
Majorana representations of Lorentz group for infinite-component, 23:15218
Mandelstam diagrams in, singularities in angular momentum plane in, 21:37937
Mandelstam representation in, deduction of Chew—Low type equations from, 21:37818
Mandelstam-type diagrams from Feynman integrals involving spins in, asymptotic behavior of, 21:37919
manifolds in, lecture on differentiable, 25:20068
Markovian processes in relativistic, 24:15636 (INP-681, pp 126-49)
mass differences (n - p) and (π^+ - π^0) in nonlocal, electromagnetic, 24:35635
mass renormalization in model in, Wightman functions in, 25:14794
mass renormalization in phi model, asymptotic behavior and operator, 24:10815
mass renormalization in regularized, 21:19055
mass shifts of composite particles in, electromagnetic, 23:23570
mass spectra in γ_5 and SU(3)-invariant nonlinear, 21:27436
mass spectra in nonlinear, model for, 23:18968
mass spectra in relativistically invariant, consequences of unreasonable, 22:3509
mass spectra of rho Regge family in infinite-component local, 24:37884
mass spectrum degeneracy for local infinite-component, 25:47958
mass spectrum in infinite-component local field in, transformation over nonunitary irreducible representation of Sp(4) group for, 25:5406 (JINR-P2-5305)
mass values in renormalized, self-consistent derivation of multiple, 25:30986
mass-eigenvalue problem in neutral pseudoscalar meson theory in, 25:38787
mass-splitting in infinite-component fields in, 23:30805
massless fields in, unitary representations of U(2,2) for, 21:31610 (AD-654316)
mathematical aspects of, 23:15215
matrix element of equal-time commutator of axial-vector current in, 21:2432 (AD-635060)
matrix elements for soft vector mesons in, equivalence with current algebra, 22:11721
matrix elements of, asymptotic behavior of Fourier transforms for analytic properties of, 24:52192
matrix space dynamics with third-order terms in Lagrangian for, 25:30967
Maxwell equations in, quantization of, 25:7717
measurement in, general theory of, 24:20226
measurement theory in, 23:18965
measurements for massive meson fields in, idealized, 25:43692
measurements in local, formal description of, 24:26486
meson field geometrization over Riemann—Einstein space in general relativity, massive scalar, 25:36582
meson fields in, idealized measurements for massive, 25:43692
meson scattering at high energies in static field in, charged vector, 25:53049 (DESY-71/32)
meson universality in, existence of scalar- and tensor-, 23:3797
meson—fermion interacting fields on light cone, behavior of, 22:46497
mesons in Lagrangian, neutral vector, 23:39818
mesons in lattice space in, 22:41859
mesons in, cellular space—time for equations of spinless charged, 25:12260
mesons in, gauge-invariant Lagrangian for massive vector, (T), 25:59555
metric in, dilatations for model with indefinite, 25:17469
microcausality in, Cherenkov counter in-flight study of meson (π^-) ad (π^+) lifetimes for, (E), 25:14581
microcausality in, differential Cherenkov counter study of lifetime of mesons (π^-) and (π^-) for, (E), 23:51907 (UCRL-19300)
microcausality in, effects of violations of, 23:39722 (COO-264-498)
microcausality in, Pomeranchuk theorems for averaged amplitudes in axiomatic formulation of, 24:37931 (ITF-70-17)
model for algebra of spin currents, 22:22447
model for axiomatic, vector Lie fields, 25:28081
model for dressed fermion states, 21:29629
model for eikonal approximation for inelastic amplitude of single scalar meson production in N + N interactions, 24:26446 (JINR-E2-4955)
model for finite temperatures in, mathematical structure of B.C.S, 25:30949
model for neutral vector meson production in e + p interactions at high energies in, 24:30479 (NYO-2262-TA-217)
model for quarks in, Pade approximant method for relativistic mesons in, 24:40373
model for relativistic particle-antiparticle bound and scattering states in, 22:50460
model for renormalized field product for Bjorken limit and Ward identity in, point-source static, 25:59564
model in Lagrangian, normal product quantization of currents for energy—momentum tensor in A^4, 25:41059 (NYO-3829-67)
model in, complex angular momentum analysis of Regge pole structure of Bethe—Salpeter amplitude for scalar particle scattering in, 25:14833
model in, normal product quantization of currents for current of broken orthogonal symmetry in two-component scalar, 25:41059 (NYO-3829-67)
model in, relation between Z = 0, bootstrap, and strong-coupling solutions to unitarity equations for, 21:37910
model in, solvable, 25:43668
model of axiomatic, 24:40463
model of axiomatic, quasilocality of class of nonrenormalizable interactions in, 23:15196 (ITF-68-22)
model of divergenceless nonlocal, 25:12268
model of interacting mesons in, Dirac equation for kinks in, 25:53176
model of interacting real scalar fields, convergence of perturbation series in Fierz, 23:16994
model of lambda(phi^4)$_2$, without cutoffs, 25:9849
model of lambdaphi^4, analytic structure of energy levels in, 22:41852
model of local, with disturbed causality, 23:27849 (ITF-69-3)
model of relativistic, local, exactly soluble, 24:37869
model of renormalizable, for weak interactions, 23:15205
model of, asymptotic condition in Zachariasen—Thirring, 25:30943
model of, axiomatic, 22:11727
model of, convergent expansion for resolvent of phi^4, 25:59581
model of, ground state of Hamiltonian in simplest, 25:30979
model of, quasi-renormalizable, 24:28596
model of, zero charge and scale invariance in soluble, 25:14783
model with composite particles for electromagnetic mass differences of vector and axial-vector mesons, 22:34920
model with currents and symmetry breaking in, 22:3478
model with degenerated vacuum in, partial elimination of infrared divergences in, 25:36562 (JINR-P2-5760)
model with fixed source for single-nucleon states in resonances, 21:19014
model with mass renormalization in, Wightman functions for, 25:14794
model with nonlocal separable potential, relation between matrix elements of scalar field and S-matrix on mass shell in, 23:18957 (ITF-68-26)
model with spectral functions of fast increase in, four-dimensional unitary relativistic, 22:24719
model with unrenormalizable interaction in, 22:1476 (JINR-E2-3472)
models for deep inelastic electron scattering at high energies in, 25:5320 (CONF-700314-, Paper 17)
models for diffraction scattering and dissociation in high-energy interactions in, 25:5320 (CONF-700314-, Paper 17)
models for N + N interactions in, quasipotential smoothness in eikonal approximation in, 25:5387 (JINR-E2-5365)
models for, axiomatics in Zachariasen, 21:9847
models for, Green functions for rotationally symmetric, 21:9845
models for, Hamiltonian in class of, 25:47962
models for, renormalized Hamiltonian in, 24:52183
models for, review of, 25:53283
models in zero-dimensional space, continued fractions and convergence problems in, 22:11722
models in, continued fraction theory for class of, 23:18963
models in, equivalence of Lee and Zachariasen, 21:17180
models in, nontrivial, 23:30802
models in, relativistic, 22:11716
models in, symmetric operators for, 24:28600
models of interaction, Poincare group elements for, 25:17553 (JINR-P2-5513)
models of, asymptotic fields in, 23:27852
models of, three-dimensional cell, 25:7713
models with infinite mass and charge renormalizations in, equivalence between two, 24:40464
models with quasi-potential smoothness in eikonal representation for N + N interactions in, 25:41072
models with shadow states in finite local relativistic, dynamics and structure of scattering amplitude from soluble, 25:50173 (ORO-3992-44)
moments in, field operators for quasi-analytical functionals for, 21:5418
momentum space analytic function corresponding to configuration space function in, 21:27438
momentum space vertex functions in, anomalous thresholds as limits of complex singularities in, 21:4114
multiloop planar dual diagrams in, divergences and renormalization in, 25:5409
multiplets in, infinite, 22:9670 (JINR-P2-3606)
N-point function in, algebraic and analyticity properties of, 25:38775 (CEA-R-4187)
n-point functions in, representations of, 25:25488 (JINR-P2-5662)
N-point functions in, vacuum invariance under exact scale transformations for, 25:14781
N-quantum approximation in, renormalization in application of, 21:29630
N-tower exchanges in phi^3, Feynman-parameter method for, 25:30987
Noether theorem for local, second, 22:3505
nonexistence of local infinite-component, 22:20166
nonlocal effects in, 22:7551
nonrenormalizable models in, asymptotic behavior of Green functions for, 24:30573
nonrenormalizable, method for singular potentials for, 22:41854
nonrenormalizable, methods of calculation for higher-order corrections in, 23:21145 (JINR-E2-4189)
nonrenormalizable, partial symmetry and equivalence theorems from calculation of higher orders in, 23:25684 (CERN-69-7, pp 395-407)
nucleon coupling with relativistic scalar meson field in, Nelson model for, 23:30814
observables in, definition of local, 23:46807
observables in, local properties of von Neumann algebras of, 24:45579
operations and measurements in local, 24:26491
operations and measurements in, local, 23:25688
operator algebras in presence of superselection rules, local, 23:1672
operator algebras on Fock space in, 21:2516
operator densities in terms of physical fields in, 24:49586
operator formalism in Froissart model for massless second-order pole in, 22:41857
operator Jacobi matrices for Wightman axiomatic, reformulation in terms of, 25:53303
operator normal-ordering methods for, relation to linked diagrams, 21:37922
operator of quantized fields, polarization, 23:5665
operator product expansions in conformal-invariant Lagrangian, 25:47938
operator products in, lectures on local, 25:33823
operator products in, singular behavior for g phi^3 interactions of, 21:7557
operator-valued distributions as quantized fields in, 24:5330 (BMwF-FBK-69-30)
operator-valued distributions in, 23:13121 (JINR-E2-4166)
operators for interacting system, Lorentz invariance and normal product of, 25:17569
operators in axiomatic, model S-matrix for dressing, 22:24729 (ITF-67-41)
operators in Fock space in, creation and annihilation, 25:1601
operators in indefinite metric spaces in, self-adjoint, 25:53317
operators in noncanonical, construction of canonical, 24:3746
operators in, computer treatment of creation and annihilation, 24:49584
operators in, generalization of Cook formalism for Fock space for two-body interactions from, 25:59580
operators in, generalized, 25:12263
operators in, generating functional for generalized retarded, 21:2512
operators in, Lorentz invariance and normal product of, 25:17560
operators in, Schwinger terms and Bjorken expansions for two- and three-point functions for local, 23:49203
operators in, unitarization of relations between Heisenberg and interaction representations of, 23:14995 (ITF-68-27)
operators in, variational principle for construction of nonconserving, 24:30575
operators on infinite tensor product spaces in, diagonal sums of self-adjoint, 24:10810
oscillator in functional space in, anharmonic, 23:30811
oscillator in low approximations, functional calculus for anharmonic, 23:16987
oscillator in, functional calculus for anharmonic, 22:18015
oscillators in, canonical perturbation theory for nonlinear, 25:53330
P(phi$_2$) model in, asymptotic fields for approximate renormalized, (T), 25:43667 (ITF-71-12-P)
Pade approximants for, 23:32800 (AD-682959)
Pade approximants for extraction of magnetic moments from vertex parts in, 25:17552 (AD-711404)
Pade approximants for two-body meson (K) and meson (π) systems in, 23:30789 (CEA-R-3763)
Pade approximants for unrenormalizable, singular potentials for test of, 24:24428
Pade approximants for, book on, 25:28063
pair production in relativistic Lee model for, 23:46802
pairing collective degree of freedom, 24:43511
para-field representation of intrinsic degrees of freedom of isospin and strangeness in, 22:46354
parafield operators, realizations of Lie algebra with, 24:18237
parastatistics for Fermi, from local observables, 24:30553 (DESY-70/15)
parastatistics for, analysis and irreducible representations of para fields in, 21:44433
parastatistics for, local observables in para-Fermi field theory for, 24:52198
parastatistics in, formalism of, 21:7546 (JINR-E2-3003)
parastatistics in, modified para-Fermi commutation relations for, 25:22895
parastatistics of bound states in, 21:13730
parastatistics with variable numbers of particles in, 25:59561
particle collisions in, cross sections in terms of local observables for, 21:17176
particle coupling to external fields in, spin-O and -$^1/_2$, 25:30939 (NYO-3829-66)
particle dynamics in, 23:39642
particle elastic and inelastic scattering in phi^3, 25:53291
particle in external field in, Markovian process for single spinless nonrelativistic, 23:42728
particle interactions in action-at-distance, 25:56550 (ORO-3992-14)
particle interactions in local, 25:22889
particle interactions in, covariant equations for spin-0 and -$^1/_2$, 21:44432 (JINR-E2-3498)
particle interactions in, fields for massless continuous-spin, 25:38783
particle interactions in, renormalized Dyson equation for scalar and massive vector, 21:9836 (JINR-P2-3038)
particle interactions in, rigorous models for, 24:33038
particle interactions with macroscopic fields in, wave equations for spinning, 25:22875
particle interactions with scalar field in, energy renormalization for, 24:18282
particle localizability in, 22:35096
particle motion in field in, Schroedinger equation for neutral, 25:22882
particle motion in fixed-centers field in, system of algebraic and integral equations for, 25:20059 (JINR-P4-5547)
particle scattering in, model with persistent vacuum for relativistic, 24:52236
particle states in Wightman formulation of, observable single, 23:39813

particle states of relativistic double pole field, space of, 21:4104
particle structure analysis for Green functions in axiomatic, many-, 22:5635
particle wave equation and degenerate vacuum in, mass formulas from infinite-component, 22:13838
particle weak interactions in Heisenberg nonlinear, nonleptonic, 23:39678
particle-like behavior in nonlinear equation in, 24:45578
particlelike solutions for nonlinear, internal dynamics of, 22:20315
particlelike solutions to nonlinear complex scalar, with positive-definite energy densities, 22:46498
particles in elementary and composite, 24:1638
particles in many-body systems in equilibrium in, spatial correlation for, 24:20197
particles in, composite and elementary, 21:21486
particles in, Fock representations for massless, 21:969
particles in, gauge transformations and field equations in limit mass = 0 for spin-$^3/_2$, 24:24423
particles in, highly charged subnuclear, 25:12132
particles in, Lee and Zachariasen models for elementary and composite, 23:49196
particles in, scattering amplitudes for zero-mass and infinite-spin, 25:45780
particles with half-integral isospin in, nonexistence of self-conjugate, 22:46503
particles with identical quantum numbers in, 21:9846
particles with identical quantum numbers in, formalism for composite and elementary, 25:53302
perturbation series for super-renormalizable, convergence of regularized renormalized, 23:10848
perturbation series in nonlinear, Efimov—Fradkin method for formal summation of, 24:3743
perturbation theory derivation from finite local equations in, renormalized relativistic, 21:46580
perturbation theory diagrams containing composite particles in model, analytic properties of, 22:3522
perturbation theory for gauge-invariant fields in, 22:26683 (ITF-67-36)
perturbation theory in, 24:33042
perturbations in quantum mechanics, relevance for models in, 21:40279
perturbations in theory of currents for semistrong, weak, and electromagnetic interactions, 23:25693
perturbative S operator in arbitrary, formalism for, 23:25692
phase factors for operators of C, P, and T discrete transformations and their products for free and interaction fields in, 23:46812
phase-space structure in nonlocal, 22:41864
photon coherent states in, representation of free external electromagnetic fields by, 23:39794
photon emission and absorption in, low-frequency limit of bremsstrahlung amplitude for soft-, 22:50453
photon field in, construction of coherent states of, 22:5637
photon intensity correlations in, 22:5641
photon interactions in linearized, comparison with general relativity theory for cross sections of, 23:23409
photon wave function in, gauge invariance and charge operator for interpolating Heisenberg fields for, 25:3437
physical states in, lectures on construction of, 25:20069
Poincare generators in, structure of, 22:35073
Poincare group in local, zero-mass infinite-spin representations of, 24:52199
Poincare group in, covariant identities and generators of, (T), 25:33818
point source limit in static model for compositeness of neutrons, 24:37891
position operator for Lorentz-covariant localized states in, 21:27431
position operator in, punctual approximations to extended-type, 21:23356
position-space analytic functions dual to Feynman integrals, mass superpositions of, 23:8842
positivity condition in momentum space in, formulation of, 24:49573
potential for one- and two-pion exchange in N + N interactions, 23:15153
potential smoothness in eikonal representation for N + N interactions in, models with quasi-, 25:41072
potential theory for, strong coupling limit in, 21:27444
potentials for source-free vector, vector, 21:42437
predictions of Eddington, for rest mass and lifetime of mesons (π), 23:46801
problems in, local operator rings and C^* algebra, 22:18005
production amplitudes for neutral scalar field without pairing symmetry, existence of, 22:20320
projection operators for relativistic free fields, 21:42434
propagator functions in, derivation of Lehmann—Kaellen representation for, 25:43681
propagator gauge transformations for non-Abelian gauge fields in, 25:43680
propagator method in lattice space theory from, 23:32814
propagators and matrix elements of renormalizable, vacuum expectation values as indicatrices of maximal regularity for, 25:53319
propagators for massive and massless particles in, SO(N) projection operators for, 23:39757
propagators in square diagrams of, insertions of complex, 22:3507
propagators in, construction of zero-mass super-, 25:22886
propagators in, Cutkosky rules for free two-particle, 21:17172
propagators in, spinor and tensor, 21:2517
propagators of causal unrenormalizable fields in, indicatrices for definition of, 25:53320
propagators of high-spin particles in, unitarity condition for, 25:17568
propagators with complex masses in convergent, macrocausal, 24:3751
properties of local, for free spin and isospin particles, 23:3809
properties of para-Fermi, 22:37188
properties of reducible, with one-parameter symmetry group, 21:4116
proton elastic form factor in local relativistic, asymptotic behavior of, 25:43587
proton electromagnetic form factor in relativistic, asymptotic behavior of, 24:30482
quantization for nonconserved currents in, canonical, 24:13149
quantization in, creation and annihilation operators for, 23:32802 (JINR-E2-4404)
quantization in, relativistic, 21:4113
quantization method for finite and infinite component fields with arbitrary mass spectra, 25:59557
quantization methods for tachyon fields, 25:56560
quantization of asymptotic fields in, relation between spin and statistics and, 25:53287
quantization of Bhabha field with electromagnetic interaction, 25:3439
quantization of charged spin-3/2 field, canonical, 23:18989
quantization of chiral dynamics, canonical, 25:33815
quantization of de Sitter symmetric fields in, Tung—Weinberg basis for, 24:40453
quantization of Dirac field, U(1) x U(1) chiral symmetry in, 25:41065
quantization of electromagnetic field in axiomatic, 22:3518
quantization of essentially nonlinear, 24:45589
quantization of fields in, symplectic structure for, 23:44709
quantization of free fields with infinite multiplets in, 23:1680
quantization of generalized fields in, 23:39788 (NYO-3399-197)
quantization of generalized fields in, wave equations for, 24:35698
quantization of generalized Rarita—Schwinger equation in, 23:39804
quantization of higher spin fields, unified approach to, 23:5673
quantization of integral- and half-integral-spin fields in, covariant, 23:27856
quantization of interacting covariant massless fields in, with prescribed asymptotic null data, 25:14796
quantization of $m^2 < 0$ field equations in, 24:30555 (NYO-3829-49)
quantization of massive vector field coupled to Dirac current in, relation with kinematical singularity in vector meson form factors for zero-mass ghost in, 24:52175 (PAM-70-3)
quantization of massless field with arbitrary spin in (s, s+1) + (-s,s+1) representation, 24:1647
quantization of metric field in, Sommerfeld—Wilson, 25:53298
quantization of multispinor fields using Schwinger action principle, 21:44440
quantization of nonlinear field, 25:28071
quantization of relativistic fields in, method for, 25:53321
quantization of scalar field in Friedman quasi—Euclidean space, 24:15644
quantization of scalar field in prescribed gravitational field, invariance conditions for group of transformations from, 23:46827
quantization of scalar fields in de Sitter space—time in, second, 23:42717
quantization of spin-$^3/_2$ field, formalism for, 22:11718
quantization of spinor, in generalized Hilbert space, 21:27433
quantization of weak gravitational field in, 25:31001
quantization of Yang—Mills, Feynman integral for singular Lagrangians for, 24:30576
quantization of Yang-Mills field in, review of, 24:28602 (AD-701726)
quantization procedures in, generalized, 23:23529
quantization schemes for non-Abelian gauge field, equivalence of Lorentz covariant and canonical, 25:14787
quantized fields in de Sitter space, dynamics of, 23:39808
quantum field interactions with stationary external fields, state space for, 24:26479 (NYO-3829-48)
quantum mechanical equations in, Wentzel—Kramers—Brillouin method for reduction to quasiclassical form for, 22:39465 (ITF-67-53)
quantum states in nonlinear, nonexistence of finite-energy stationary, 22:41853
quantum zero-point energy in, 24:24205
quark model in nonlocal, meson mass spectra from, 23:39802
quasipotential equation for $p + p \rightarrow p + p$ interactions and N(1470) and N(1688) production in p + p interactions at high energies in, 23:44668 (IC-69/87)
quasipotential equations for scalar particle scattering amplitude in, approximate method of solving, 25:45795 (JINR-E2-5833)
radiation field interactions with atoms in, 23:42719
radiation propagation in medium with complex matrix elements in nonrelativistic, 24:6747
radiative correction to photon propagator in Lee—Yang theory of spin-one bosons, 22:39468
radiative corrections for charged particle scattering, separation of infrared contributions to, (T), 23:13063
radiative corrections for gphi^3 model to sixth order, computation of, 22:3513
radiative corrections for gphi^3 model, method for computing higher-order, 22:3514
radiative corrections for lambda phi^3, computer programs for calculating renormalized, 25:12245 (CNRS-CPT-70-P-318)
radiative corrections to 6th order in, calculation of, 22:29742 (NP-17377)
radiative corrections to weak interactions in, 23:25577 (CERN-69-7, pp 409-26)
Rarita—Schwinger formalism for boson fields, 24:35705
Rarita—Schwinger waves in external electromagnetic potential, 24:13142
Regge asymptotic behavior in, mechanism for origin of, 25:28072
Regge cuts in eikonal approximation in, 25:41071
Regge poles in scalar—vector, 24:13143
Regge trajectories for infinite-component local, with rising mass spectrum, 25:14799
Regge trajectories from perturbation techniques in, nonweak-coupling, 24:37880
Regge trajectories in model of, daughter, 24:28598
Regge trajectories in model of, intersecting, 23:15209
Regge trajectory in model in, daughter, 22:20316
Regge trajectory in model, daughter, 22:44493
Regge-pole behavior in SL(2,C) model, 21:21296
Regge-pole theory in, relation to group theory, 21:2533
Reggeized Feynman theory, tree graphs of generalized Veneziano model for unitary closed loops in, 24:8711
Reggeon-graph technique in, 23:18981
relation to current algebra, 24:49587
relation to symmetry with infinite multiplets, 21:40255
relativistic invariance in, commutation relations for energy and momentum densities in, 21:27435
renormalizability for massive Yang—Mills field in, 25:22891
renormalizability in massive Yang—Mills, 25:38776 (NP-18859)
renormalizability of massive Yang—Mills field in, Feynman rules for massless Yang—Mills field, 24:10814
renormalizable approximations in self-coupled neutral-boson, 24:33040
renormalizable models with symmetry breaking by a source term in, 24:8705 (DESY-69/36)
renormalizable theory for massive vector field in, spectral representations for commutators and Green-like functions for, 24:10824
renormalization and diagonalization of one-boson Lee model in, 24:22005
renormalization and regularization of axial-vector current in sigma model, 24:13161
renormalization and spectral representations of spinorial fields in, 23:30790 (ITF-69-9)
renormalization constant for composite bosons in nonlocal, 25:5411
renormalization constant in, composite particles and bootstrap from Z = 0 conditions for, 22:5648
renormalization constant in, identity for wave function, 25:1607
renormalization constant ratio for mesons (π) and (K) in SU(3) in, wave function, 23:42724
renormalization constants as conditions for composite particles, vanishing of, 22:35082
renormalization constants for partial-wave two-body scattering amplitudes in, vanishing of, 25:30958
renormalization constants in, 25:7705 (IC-70/106)
renormalization constants in, interrelation of fundamental forces for strong, weak, and gravitational interactions for, 25:45793 (ITF-70-99, pp 15-40)
renormalization constants ratio for π relative to K and rho relative to K in, wave function, 24:26433
renormalization for N particles with identical quantum numbers in scalar, Z = 0 conditions for compositeness, masses, and charges from, 24:8706
renormalization for nonzero-mass vector, sufficient condition for, 22:48366
renormalization for self-coupled neutral boson field with gphi^4 interaction in, form invariant, 23:23537
renormalization group and Callan—Symanzik equations in, differential vertex operations for, 25:45797 (NYO-3829-72)
renormalization in, 22:46515
renormalization in Lagrangian, equivalence of additive and analytical, 24:1644
renormalization in momentum space for, convergence of Bogoliubov method for, 24:15658
renormalization in, causality condition and relation between Bogoliubov and Lehmann—Symanzik—Zimmerman axiomatic for, 22:32197 (ITF-67-38)
renormalization in, conference on, 25:28060 (IC-69/121)
renormalization in, finite formulation of method for, 21:15401
renormalization in, lectures on, 25:33823
renormalization in, quasi-local Heisenberg operators in, 21:4106
renormalization in, relation of Pfaffians and Hafnians to determinants and permanents for, 24:20212
renormalization in, representations of creation and annihilation operators for, 24:30563
renormalization of conserved current in, use of Ward identity in proof for absence of, 21:40276
renormalization of field operator in axiomatic, 22:48364
renormalization of field operators in, axiomatic S-matrix theory for, 24:49575
renormalization of Lagrangian, book on, 23:51985
renormalization of models in, with PCAC, 23:36982
renormalization of models with broken symmetry in, 25:47960
renormalization of nonpolynomial Lagrangians in, 25:50177
renormalization of nonpolynomial Lagrangians in, 25:56549 (ORO-3992-9)
renormalization of polaron Hamiltonian in, 23:3798
renormalization of quadratic interaction in Hamiltonian, 24:49579
renormalization of regularized, finite-part integration rules for, 23:23538
renormalization of self-energy diagrams in spectra form in, 23:44713
renormalization of sigma model in, 23:23533
renormalization of sigma model in, 25:22781
renormalization of sigma-model in, regularization procedure for, 24:1641
renormalization of theories with broken symmetry in, 25:20056 (DESY-70/62)

renormalization of two-space dimensional phi^4 interaction in, unitary, 25:47953
renormalization of Yang—Mills field with nonzero mass in, spectral representation for, 25:12250
renormalization of, method of analytic continuation for finite-part integration rules for, 23:23535
renormalization procedure for N-quantum approximation in, 22:46502
renormalization scheme for strong-coupling lambdaphi^4 theory, 22:24728
renormalization theorem and space-like regularization in, Bogoliubov—Parasiuk—Hepp, 21:40277
renormalization theory for relativistic bound-state problems in, (T), 23:13127
renormalization theory for, multiplication of distributions for formulation of, 23:18967
renormalization theory in, 21:13727
renormalization theory in, formalism of, 21:13736
renormalization transformations as linear combinations of radiative corrections, 24:15646
renormalizations and dressing transformations in, 25:12258
renormalizations in, equivalence between two models with infinite mass and charge, 24:40464
renormalizations in, infinite, 23:30795
renormalizations in, renormalized Hamiltonians for class of fields with infinite mass and charge, 24:49577
renormalizeability of massive non-Abelian gauge fields in, functional-integral technique for, 24:13157
renormalizeability of massive non-Abelian vector gauge fields in, functional integral approach to, 23:39789 (RLO-1388-553)
renormalized field product for Bjorken limit and Ward identity in point-source static model for, 25:59564
renormalized radiative corrections for Feynman diagrams in, 24:24449
renormalized series in, principle of minimum maximum modulus for, 25:17561
representation for spin-3/2 Rarita—Schwinger, spectral, 21:37916
representation in, Jost—Lehmann-Dyson, 25:3433 (ITF-70-33)
representations in Euclidean, integral, 22:22441 (ITF-67-50)
representations of conformal symmetry breaking in finite-component, review of, 23:42709
representations related to automorphism in, physical equivalence of, 21:46582
research at Pittsburgh Univ., Dec. 1969 to Dec. 1970, 25:9839(R) (NYO-3829-64)
research at Washington Univ., Sept. 1970 to Sept. 1971, (T), 25:41255(R) (RLO-1388-611)
research in, review of, 24:30578 (AD-684586)
research on, index for, 22:15693 (AED-C-23-20)
research on, index of, 22:20153 (AED-C-23-22)
research on, index of, 22:24567 (AED-C-23-24)
research on, review of, 22:15696 (NP-17252)
review on, 22:48350 (CERN-68-23(Vol.1), pp 1-128)
role in physics, review of, 25:36576
role of gravitational field in, 21:35246
S-matrix amplitude for structure of local, analytic properties of amplitudes of, 23:3803
S-matrix and axial charge in, 25:30982
S-matrix approach to, asymptotical states in, 24:30566
S-matrix definition in nonlocalizable, 24:52196
S-matrix elements in class of nonrenormalizable, method for computing, 25:31016 (NYO-1932(2)-192)
S-matrix elements in, generating functionals for, 25:43670
S-matrix for arbitrary spin in, 21:29625
S-matrix for Born-Infeld two-dimensional model in, 22:46557
S-matrix for, Lagrangian depending on derivatives for, 25:30968
S-matrix in axiomatic, unitary renormalized, 23:27882
S-matrix in Bogolubov, formulation of postulates for, 24:30602
S-matrix in functional, 23:46804
S-matrix in models of, negative metric for unitary, 23:23555
S-matrix in nonlinear, validity of Dyson formula for, 25:41116
S-matrix in perturbation theory for nonlocal scalar, 22:26693 (JINR-P2-3590, pp 59-68)
S-matrix in scalar nonlocal, 21:27418
S-matrix in, analysis of, 21:11815
S-matrix in, asymptotic action principle from unitarity of, 25:53287
S-matrix in, divergences of, 25:47946
S-matrix in, Kirkwood—Salsburg equations for coefficient functions in Euclidean region for, 25:33850 (ITF-70-108-E)
S-matrix in, perturbation theory formalism of, 21:960 (JINR-P-2870)
S-matrix in, semiclassical approximation to, 22:26709
S-matrix of local, conditions on stress tensor for Poincare invariance of, 25:41110 (UCRL-20697)
S-matrix unitarity in, 23:30842
S-matrix unitarity in field theory with derivatives, 22:48367
scalar field model for recoil effects in meson interactions with nucleons in, 24:40399
scalar field model in, operator solution, 24:52186
scalar fields in, generalized energy—momentum eigenvectors for free, 24:20215
scalar fields in, nonlocal interactions of, 23:3794 (ITF-68-54)
scalar fields in, null and pseudonull data for, 23:1674
scalar fields in, Rayleigh—Ritz procedure in formulation for coupled self-interacting, 24:3750
scalar fields in, space-time properties of generalized functions for, 23:3813 (ITF-68-52)
scalar fields with spacelike momentum spectra, relativistic, 22:48362
scalar hyperplane-dependent fields in nonlocal, for relativistic particles, 24:26487
scale and conformal invariance in Lagrangian, 24:45604
scale dimensions in two-dimensional models of, anomalous, 25:30921
scale invariance and short-distance behavior relation in derivative-coupling and Thirring models in, 25:7706 (NYO-3829-56)
scale invariance in scalar, broken, 25:1609
scale invariance in self-interacting scalar lambdaphi^4, 25:53301
scale invariance in, breaking of, 25:1596 (DESY-70/43)
scale invariance in, differential vertex operations for test of broken, 25:45797 (NYO-3829-72)
scale invariance in, incompatibility with Lorentz covariance, 25:14790
scale invariance in, spontaneous breakdown of, 25:47942
scale invariance of renormalized perturbation expansion of lambda phi^4 theory in, 25:1615
scale transformations for N-point functions of, vacuum invariance under exact, 25:14781
scattering amplitude at high energies in models of, eikonal, 25:25522 (JINR-P2-5577)
scattering amplitude at high energies in, eikonal approximation for asymptotic behavior of, 24:43026
scattering amplitude at high energies in, relativistic two-body equations for, 25:33824
scattering amplitude for neutral fundamental field in, elastic, 25:38790
scattering amplitude in central-symmetric field in, quasiclassical approximation with nonsmall limiting classical scattering angle for, 23:52029
scattering amplitude in exactly soluble model of relativistically invariant and local, two-body, 24:15638 (NYO-3829-43)
scattering amplitude in theories with exponentially decreasing commutators in spacelike region in, analyticity of, 24:30562
scattering amplitude in, axiomatic proof of asymptotic relations for averaged, 25:22877 (ITF-70-79)
scattering amplitude in, radiative corrections to eikonal, 24:24444 (JINR-E2-4983)
scattering amplitude in, two-body relativistic potential, 25:1648
scattering amplitude near threshold in phi^3 theory, high-energy behavior of elastic, 25:7759
scattering amplitude of two infinite-component fields in, 25:53323
scattering amplitudes for four spinless particles in Weinberg, lower-spin contributions to, 23:34645
scattering amplitudes for zero-mass and infinite-spin particles in, 25:45780
scattering amplitudes from unitarity and, analytic properties of, 21:44445 (BNL-11700)
scattering amplitudes in local, increasing order of, 25:17603
scattering amplitudes in local, rate of increase of, 25:47985
scattering amplitudes in model of, Regge behavior of, 23:21170
scattering amplitudes in nonlocalizable, bounds on elastic, 25:59565
scattering amplitudes in phi^3, eikonal approximation breakdown in high-energy, 25:47977 (DESY-71/16)
scattering amplitudes in strictly localizable, construction of crossing-symmetric resonance, 24:33044
scattering amplitudes in, analytic properties of, 21:11821
scattering amplitudes in, compositeness and vanishing of renormalization constants for partial-wave two-body, 25:30958
scattering amplitudes in, n-body problem for, 25:30957
scattering amplitudes in, threshold behavior of partial-wave, 21:9865
scattering and production in axiomatic, 25:1594 (AD-706929)
scattering at high energies in axiomatic, review of, 22:39491 (CERN-68-7(Vol.1), pp 290-315)
scattering at high energies in local, analyticity and unitarity in cross sections of elastic and inelastic, 24:5339
scattering by nonphysical potentials in, analyticity in coupling constant for, 23:19004 (ITF-68-46)
scattering formalism for nonlocalizable, 24:52196
scattering formalisms in, equivalence of alternative, 21:7558
scattering in, existence of nontrivial theory of, 25:31034
scattering in, generalization of in—out formalism for Coulomb potentials for, 25:5431
scattering in, lectures on relativistic, 25:56571 (CERN-71-14, pp 229-87)
scattering in, potential model for, 25:22706 (DESY-70/67)
scattering in, quasiclassical approximation with static nucleon for, 24:43024
scattering length in, dispersion relations for determining, (T), 21:971 (JINR-P-2873)
scattering model for neutral self-conjugate field, 22:46541
scattering of two Majorana fields, amplitude for elastic, 25:41067
scattering operator in, formulation of, 23:46836
scattering states in Lee model, dipole-ghost, 25:25499
Schroedinger equation and wave operators in Vtheta—Ntheta theta sector of Lee model in, 21:2519
Schroedinger second quantization in, fundamentals of, 21:9840
Schwinger model in, gauge transformation in, 22:9680
Schwinger terms from local currents in, 22:9677
Schwinger terms in spectral representation in, 23:16988
Schwinger terms, field dependence, and covariance in general, 22:13847
self-consistency in, 25:43688
self-interaction for Hamiltonians in strange representations of canonical commutation relations, 23:21158
shadow state relation to poles of S-matrix, Heisenberg condition and completeness of states for, 25:50186 (ORO-3992-20)
shadow states for s- and p-wave $\pi + N$ interactions at low energies in static, 25:47862 (ORO-3992-45)
shadow states in relativistic, 25:36564 (ORO-3992-30)
shadow states in soluble models in finite local relativistic, dynamics and structure of scattering amplitude from, 25:50173 (ORO-3992-44)
sigma model in, two-loop approximations to propagations in, 25:43684
sign of gravitational force, 21:37640
signal propagation in tachyon fields in, macrocausality for, 24:40451
singularities in renormalized, equal-time, 24:43031
singularities in renormalized, equal-time, 24:52180
singularities in vector, relation with zero-mass ghost for, 24:52175 (PAM-70-3)
singularities on complex plane, method of analytic regularization for, 25:22892
small-distance behavior in, 25:41078
small-distance behavior in, scaling for, 25:1596 (DESY-70/43)
solutions for class of nonlinear, particle-like, 21:44299
solutions for de Sitter symmetric, 23:18962
solutions in finite-component, consistency of single-particle pole solution to superconvergence relations with, 21:37918
solutions in, existence of, 22:5649
solutions to, existence of particle-like, 21:7550
sources of massive tensor spin-two fields in, noncommutation requirements and field dependence for, 24:5332 (NYO-2262-TA-214)
space—time in local Poincare covariant, dimensionality of, 25:17566
space—time in, cellular, 25:12260
space—time structure of nonlocal fields in, dynamic isospin from internal, 23:25691
spectral concepts in coordinate space, 21:7556
spectral density in Wightman axiomatic, Kaellen—Lehmann, 22:26686 (JINR-P2-3740)
spectral function sum rules in model of, 23:13125
spectral function sum rules in Sugawara model, 23:46650
spectral functions in model in, rapidly increasing, 22:26698 (JINR-P2-3590, pp 114-26)
spectral representations and invariant functions in, 24:20224
spectral representations for arbitrary spin irreducible field in, 21:21292
spectral representations for Rarita—Schwinger fields, 21:21294
spectral representations for tensor fields in, 21:21293
spectral representations in renormalized vector theories, 23:15193 (ITF-68-39)
spectral representations of Lorentz invariant distributions and scale transformations for formulas in, 22:35099
spectral-function sum rules for vector and axial-vector fields, 23:21152
spin, statistics, and kinks in, relation between, 23:3810
spin—statistics relation from symmetry between emission and absorption processes in, 22:48352
spin—statistics relation in formulation of, 23:30799
spinor electrodynamics and sigma-models of, anomalous axial-vector divergence equation in, 23:42735
spinor field in, anomalous Ward identities in model of, 24:3734
spinor fields in, isospin and local space-time rotations, 23:5666
spinor interactions with massive vector mesons in two-dimensional space—time, 21:5416 (NYO-1932-115)
spinor operators for, boson and fermion propagators in nonlinear Hermitean, 21:7554
spinor particles in four-dimensional unitary relativistic model without ultraviolet divergences, generalization for nonzero-mass, 21:29623 (JINR-P2-3270)
spinor theory formulation of, potentials with logarithmic regularization in, 25:12261
spinor theory in, SU(3)-invariant, 24:1635
spinor theory on de Sitter space with SO(1,4) symmetry, 24:15653
spinor theory, asymptotics of plane graphs in, 23:25686
spinors for free fields of zero-mass particles, properties of plane-wave, 24:24432
stability in nonlinear, 22:1473
static models in, saturation of sum rules in strong-coupling, 22:34995
stationary states in, exact solution to Schroedinger equation for, 24:20211
statistical mechanics analogies with, Kirkwood—Salsburg equations for coefficient functions in Euclidean region for S-matrix for, 25:33850 (ITF-70-108-E)
statistical mechanics for systems with infinite number of degrees of freedom in, 24:5336
statistical mechanics for, extension of invariant partial states in, 22:35094
statistical mechanics for, nonequilibrium, 25:30956
statistical mechanics formulation in, quantum, 22:41855
statistical mechanics in, equilibrium states of, 25:30941
statistics in quantum mechanics and, relation between formulations of generalized, 22:44492
stress tensor for free massless, construction of covariant, 24:37870
stress tensor in external fields, divergence of, 25:33825
stress tensor in Sugawara model, spectral sum rules from modified, 24:8713
stress—tensor commutators and Schwinger terms in, 21:44437
strong interaction amplitudes in, first-order perturbation corrections to, 24:13158
strong interactions in, point-source static model for renormalized field product for Bjorken limit and Ward identity for, 25:59564
structural analysis of, review of, 25:28077
SU(2) X SU(2) chiral symmetry in canonical, 23:39799
Sugawara current theory, fermion representations of, 24:37897
Sugawara model in nonlinear, (T), 24:43030
Sugawara model in, generalizations of, 24:13164
Sugawara model in, Lagrangian forms of, 24:13163
sum rules for scattering amplitudes in infinite-component, 23:42734

sum rules in axiomatic, equal-time current commutator for validity of Gell-Mann—Fubini, 25:53305
sum rules in axiomatic, validiy of Gell-Mann—Fubini, 25:9837 (ITF-70-57)
sum rules in perturbation-theoretic calculation in sigma-model, Weinberg, 22:24726
superconvergence relations for forward amplitude of particles with spin in axiomatic, 22:39497
superpropagator of fields with exponential coupling in, 25:53300
superpropagators for arbitrary mass in Lagrangian, with exponential interactions, 25:1595 (DESY-70/30)
superpropagators for nonlinear, method for calculation of, 25:25487 (JINR-P2-5657)
superpropagators in nonrenormalizable, regularizing properties of, 25:20058 (JINR-P2-5569)
symmetries in algebraic, automorphisms and broken, 21:11812
symmetries in algebraic, spectrum of internal, 23:27859
symmetries in relativistic, charges as integrals of densities in, 21:962
symmetries in relativistic, spontaneously broken, 25:30945
symmetries in theory of several scalar real Poincare covariant fields in, physical, 24:3755
symmetries in Zachariasen—Thirring—Licht model for, spontaneously broken, 22:32181
symmetries in, broken, 21:21485
symmetries in, bundles of C*-algebras for, 21:11809
symmetries in, differential vertex operations for test of broken, 25:45797 (NYO-3829-72)
symmetries in, extension of Poincare group algebra and P violation for higher, 25:43676
symmetries in, local internal, 24:15617
symmetries in, mass gap and violation of discrete, 21:9839
symmetries in, physical, 24:28591
symmetries in, physical, 25:12253
symmetries in, vanishing renormalization constants for dynamic origin of, 21:2518
symmetries induced by conserved vector currents in scalar, 23:27860
symmetry and range of forces in many-body systems in, broken, 21:11808
symmetry at infinite four-momentum in, exact internal group, 22:11698
symmetry breakdown in relativistic local, gauge invariance for, 24:37883
symmetry breakdown in relativistic, mechanism of spontaneous, 21:33730
symmetry breakdown in, group theory of spontaneous SU(3), 21:21264
symmetry breakdown of vacuum in, invariance, 25:22878
symmetry breaking effects in models of, 21:4107
symmetry breaking for dilatations in space—time in, 22:29750
symmetry breaking in non-Abelian gauge theories, 21:25344
symmetry breaking in renormalizable models in, 24:26460
symmetry breaking in, conformal and dilatation, 25:33789
symmetry breaking in, dynamic consequences of spontaneous, 25:1576
symmetry breaking in, field-current identities from, 22:41849
symmetry breaking in, transposition-invariant, 24:18279
symmetry effects in, generalization of Zachariasen model for broken, 23:32781
symmetry group transformations for structure of phenomenological Lagrangians in, 23:18994
symmetry groups for construction of invariant phenomenological Lagrangians in, 23:18993
symmetry groups for self-conjugate fields in, representations of internal, 24:8717
symmetry groups for several scalar real fields in, 24:15635 (INP-681, pp 6-28)
symmetry groups in noncompact, 21:29575
symmetry groups in, coupling of space—time and internal, 23:13114
symmetry in field transformations in, spontaneous breakdown of conformal, 24:21997
symmetry in two-component scalar model in, normal product quantization of currents for current of broken orthogonal, 25:41059 (NYO-3829-67)
symmetry in, existence and survival of space-time, 21:15373
symmetry in, limitations on spontaneous breakdown of, 23:46759
symmetry laws in Lagrangian formalism for discrete and continuous, 22:29730
symmetry operations for spontaneously broken symmetries in relativistic, 23:23530
symmetry properties in local, 21:44413
symmetry relation with conserved currents in, relativistic, spontaneous breakdown of, 23:46758
symmetry transformations generated by conserved local currents in Wightman relativistic, 25:12264
symmetry violation in Wightman axiomatics in, 22:24691 (ITF-67-32)
symmetry with infinite multiplets for, SU(2,2), 22:20283
tachyon fields in, macrocausality for propagation of signals in, 24:40451
Tachyon propagator in, causal Lorentz-invariant, 23:46796
tachyons in, 24:49570 (RT/FI-(70)13)
tensor field sources in, noncommutation requirements and field dependence of, 25:1602
tensor fields for construction of generators of Poincare group, 24:6757
tensor fields for massless particles in, tripole ghosts in formalism for, 23:39803
tensor fields in, energy—momentum operator for local, 23:5675
tensor fields in, gravitational coupling of, 25:38786
tensor fields in, spectral-function sum rules for, 22:34973
tensor fields in, use of vector tripole ghosts for gauge of massless, 23:1675
test functions for Wightman, representations of algebras for, 22:7548 (JINR-E2-3583)
theorems in stochastic, consistency and high-energy, 24:35688
theories for divergenceless, 25:47955
theories with dipole ghost in, interpretation of, 24:30557
theory for asymptotic, review of generalized functions in, 21:42432
theory for axiomatic, formulation of adiabatic hypothesis in, 22:15836 (ITF-67-24)
theory for axiomatic, review of, 25:25485 (ITF-70-107-E)
theory for Borchers class of local, 21:44435
theory for elementary particles, review on, 23:10776
theory for equivalence between two theories of elementary and composite particles for semi-relativistic, 24:37875
theory for Euclidean, analogies between statistical mechanics and, 25:59622
theory for free local fields with infinite multiplets in, 21:40266 (JINR-E2-3430)
theory for free Yang—Mills, conditional dynamic equivalence with free gravitational fields, 22:13848
theory for functional calculus for anharmonic oscillator in, 21:19062
theory for generalized Yang—Mills, standard invariance in self-interaction in, 22:13839
theory for high-energy behavior of local, 21:13725 (SLAC-PUB-250)
theory for higher-spin particles, 21:33771
theory for infinite-component Fermi, self-coupled representations of Lorentz group in, 21:37906 (IC-67/58)
theory for Lagrangian, Rarita—Schwinger fields with spin 5/2 in, 21:21303
theory for local relativistic, real, scalar, phi/sup 2N/, exact physical solutions to Schroedinger stationary state equation for, 25:53316
theory for local, general state changes in, 25:47963
theory for Lorentz vector, 21:37929
theory for neutral scalar, summation of Feynman diagram contributions for, 21:29464 (ITF-67-3)
theory for nonlinear scalar and spinor, Lagrangian in, 21:15404
theory for nonlinear spinor, vacuum expectation values for, 21:15400
theory for nonlinear, Efimov—Fradkin method in, 25:47940
theory for nonlinear, particle-like objects in, 25:30964
theory for nonlinear, topological analysis for particle-like structures in, 24:49566
theory for nonlocal, 21:37920
theory for nonlocal and nonlinear, review of, 25:45794 (ITF-70-99, pp 41-58)
theory for nonlocal, review of, 22:26688 (JINR-P2-3590, pp 11-16)
theory for nonlocal, review of, 25:20057 (JINR-E2-5563)
theory for nonrenormalizable, review of, 25:30955
theory for relativistic, algebraic aspects of, 21:11816
theory for relativistic, ergodic states in, 25:28078
theory for relativistic, review of mathematical structure in, 22:18011
theory for scalar and spinor, boundary conditions for Feynman path integrals in, 21:9842
theory for scalar, in de Sitter space—time, 23:21147
theory for scalar, in two-dimensional de Sitter space, 21:40269 (JINR-P2-3392)
theory for scalar, $Z = 0$ conditions in, 21:19054
theory for self-coupled generalized Yang—Mills vector fields, 21:27416 (IFA-FT-63)
theory for Wightman, distribution theory, Laplace transformations, and Klein—Gordon equation in, 22:11717
theory for Wightman-type axiomatic nonrenormalizable, 25:30942
theory for Wightmann and LSZ, in Haag-Ruelle collision theory, 21:11815
theory for Yang-Mills, separation of redundant variables in, 21:17179
theory for, book on, 22:9684
theory for, bootstrap conditions in model in, 21:40272
theory for, development of laws and perspectives in, 22:22333
theory for, ergodic states in noncommutative, 22:35093
theory for, functional methods for soft photons and soft mesons (π) in, 21:15399 (NYO-2262-TA-147)
theory for, generalized hidden variables theorem in, 25:40850
theory for, group straight-line motions in geometric, 22:22445
theory for, index on, 22:37092 (AED-C-23-26)
theory for, index on, 22:37091 (AED-C-23-25)
theory for, inequivalence of field operator and renormalization constant $Z_1 = 0$ in, 21:44439
theory for, integral representations of analytic functions and Jost—Lehmann—Dyson formula in, 21:15406
theory for, Kallen—Pauli-type integral equations in, 21:23354
theory for, limitations of nonlocal, 22:26690 (JINR-P2-3590, pp 44-5)
theory for, limits of sequences of normal states for construction of new representations of relevant physical systems in, 21:31636
theory for, local and nonlocal generalized functions in, 22:26701 (JINR-P2-3590, pp 148-57)
theory for, many-body problem in terms of particle group functions in, 23:18828
theory for, PCAC relation in, 21:17178
theory for, positive functionals on algebras of test functions in, 21:37907 (JINR-E2-3347)
theory for, relation to general relativity, 21:19052 (ARL-66-0206)
theory for, relativistic model in, 21:15397 (JINR-P2-3113)
theory for, review of, 21:40270
theory for, review of, 22:3508
theory for, review of fundamental equations in, 21:31634
theory for, review of fundamental questions in, 22:32078
theory for, review of localizable and nonlocalizable, 25:30962
theory for, review of perturbation theory for, 25:25485 (ITF-70-107-E)
theory for, review of relativistic, 25:47771
theory for, weak additivity property for derivation of Reeh—Schlieder theorem in, 23:15227
theory in curved space—time, connection for, 25:59578
theory of scalar field with gphi^4 self-action, 21:15397 (JINR-P2-3113)
theory of Segal, 21:21301
theory of, unification of general relativity theory and, 25:41099
theory off null planes, 25:22888
theory with higher order derivatives in, quantized Cauchy data and particle states for, 23:16993
theory with infinite multiplets in SU(2,2), 21:29622 (JINR-P2-3200)
theory with local interactions in indefinite metric space in, relativistic, 22:13836 (SU-1206-131)
theory without divergences for, four-dimensional unitary relativistic model in, 21:15398 (JINR-P2-3114)
theory without divergences in, four-dimensional unitary relativistic model, 22:13855
Thirring effect in, methods for measuring, 25:33821
Thirring four-fermion model in, locality for Heisenberg field from effect of canonical commutation relations on, 24:8707
Thirring four-fermion model in, perturbation theory for, 22:5650
Thirring model in, energy—momentum tensor for locally generated dilatation charge in, 25:5408 (NYO-3829-61)
Thirring model in, locally generated dilation charge in, 25:30993
Thirring model in, operator product expansions in, 25:1614
Thirring model in, scale invariance and short-distance behavior relation in, 25:7706 (NYO-3829-56)
Thirring model in, solutions for, 21:44434
Thirring model of self-interacting massless spinor field in, normal products of fields in, 24:30558
Thirring model of, energy—momentum tensors and scale invariance in, 25:9862
Thirring model of, operator solution of, 23:5674
three-body problem in configuration space in, 25:7743 (JINR-P2-5101)
three-body problem in three-dimensional covariant formulation of, 25:7742 (JINR-P2-5099)
three-body problem in, three-dimensional covariant formulation of, 25:59577
time evolution of fields with bounded quasi-local interaction density, 24:30577
time evolution of systems with infinite number of degrees of freedom in, 25:30703
Tomonaga theory in, development of, 21:13731
tower exchange in lambda phi^3, 25:7720
trajectories in infinite-component, linearly rising, 24:45582
transformation law of quantum fields from relativity principle, 24:8718
transition matrix of Wick—Cutkosky model, solution to inhomogeneous Bethe—Salpeter equation for, 24:13152
transition to zero mass in massive Yang—Mills, limiting, 25:38776 (NP-18859)
tree-graph approximation to, classical field as generating functional of, 22:46500
two-baryon sector of soluble models in, with indefinite metric and SU(2) symmetry, 24:1566
two-baryon sector of soluble models in, with indefinite metric, 24:1567
two-body problem in three-dimensional formulation of, relativistic, 25:43674
two-body problem in, equal-time formulation of, 25:20077
two-body problem in, quasipotential theory for, 25:53281 (IC-71/75)
two-body problem in, relativistic, 25:20071
two-point function and invalidity of CPT theorem for infinite-component fields in, general properties of, 23:30804
two-point function and validity of CPT theorem of infinite-component fields in, 24:49576
two-point function for bilocal field of Lorentz, Poincare, and 0(4,1)(0(3,2)) groups in, expansion of invariant, 25:1597 (JINR-P2-5304)
two-point function for fields in, covariant structure of, 24:10825
two-point function for fields in, covariant structure of, 23:21146 (JINR-P2-4115)
two-point function for infinite-component fields in, spectral representations of Lorentz-invariant, 22:41843 (JINR-E2-3891)
two-point function for infinite-component fields with arbitrary-mass spectrum in, spectral representation of covariant, 24:8728
two-point functions for local infinite-component fields, 24:13141 (JINR-P2-4812)
two-point functions with noncanonical light cone singularities for neutral scalar Wightman fields in, 23:30808
ultraviolet divergences in, analytic functionals for regularization of, 22:35076
ultraviolet divergences in, regularization of, 24:10827
unitarity for $\pi + \pi$ interactions in, 23:30801
use for calculation of matrix elements between atomic states with open-shell configurations in, 22:38751
use for calculation of matrix elements between atomic states with open-shell configurations, 22:38752

vacuum annihilation by infinite-component local field in, example of, 21:29621 (JINR-E2-3289)
vacuum degeneration for charged scalar field with self-interaction in case of one spatial degree of freedom, 25:59576
vacuum energy for phi^4, rigorous bounds on, 25:47949
vacuum expectation value of sigma term in, 24:6748
vacuum expectation values in two-dimensional, time-ordered, 22:48363
vacuum expectation values involving local commutativity, integral representations of, 22:1475 (ITF-67-16)
vacuum expectation values with account of local commutativity in, integral representations of, 25:28082
vacuum in, invariance symmetry breakdown of, 25:22878
vacuum in, S-matrix theory for, 25:20078
vacuum noninvariance in, 24:15501
validity in very high-energy region, criterion for, (E), 23:37021
validity of complex-ghost relativistic, 25:43686
vector bundles in, book on, 25:33807
vector field interaction with scalar field, model with exact solution for neutral vector, 24:26493
vector field with non-zero mass in, invariant expansion of solutions of relativistic equations for, 23:18978
vector fields in, covariant definition of independent components and quantization for massive, 24:35696
vector fields in, current operators coupled to, 21:29632
vector-meson dominance model in, consistency problems in, 23:10781
vector-meson dominance models in, consistency problems in, 23:5664 (DESY-68/46)
vector-spinor field in, Rarita—Schwinger equation for, 25:33817
vertex function from local commutativity in, sum rules for, 25:45800
vertex function from local commutativity in, sum rules for, 25:45801
vertex function from local commutativity in, sum rules for, 25:45802
vertex function in boson, eikonal approximation for, 25:53289
vertex function in, Silov boundary of, 24:3754
vertex functions at large momentum transfer in relativistic, inverse power decrease of, 24:3788
vertex functions at large momentum transfer in, asymptotic behavior of, 23:46808
vertex functions at large momentum transfers in, models for, 24:8726
vertex functions in, small distance behavior of, 24:52197
vertex functions in, Wilson expansions for small-distance behavior analysis for, 25:56543 (DESY-71/39)
vibrations in, review of criteria for absolute, convective, and global instability and amplification and nontransmission of, 25:36560 (ITF-70-96-P)
virtual particles and processes in, 25:28064
von Neumann algebras for, summation vectors in, 25:53308
Ward identities in axiomatic, validity of normal, 25:9837 (ITF-70-57)
Ward identities in dual resonance models in, algebraic structure of generalized, 25:36591
Ward identities in Lagrangian, normal product quantization of currents for derivation of single-current, 25:41059 (NYO-3829-67)
Ward identities in, anomalies in, 25:20070
Ward identities in, anomalies in, 25:59572
Ward identity in, anomalous, 24:43029
Ward identity in, point-source static model for renormalized field product for, 25:59564
Ward—Takahashi identities in, anomaly in axial-current, 24:13151
wave equation with physical mass spectrum in, infinite-component, 25:7708
wave equations for many-particle systems in, relativistically covariant, 22:41845 (JINR-P2-3900)
wave equations in discrete space-time, formulation of, 22:48351 (IFVE-STF-68-7-K)
wave equations in, complete set of solutions for, 23:39788 (NYO-3399-197)
wave equations in, mass spectrum of infinite-dimensional relativistic, 24:30574
wave equations in, quantization of first- or second-order partial differential relativistic, 23:15194 (COO-264-464)
wave function calculations for atoms and molecules using, 21:3660
wave functions and field operators in, Poincare group elements for, 25:17553 (JINR-P2-5513)
wave functions and wave equations for higher-spin field, 23:42732
wave functions satisfying Dirac and Kemmer equations in, consistency conditions for, 21:44442
wave mechanics of free fields, Schroedinger approach to, 23:23536
wave propagation in vacuum in, stochastic space for phase fluctuations of, 25:50171 (JINR-E2-5922)
Wheeler and Feynman field in, ground state of harmonic oscillator as limiting cycle for, 25:22883
Wick—Cutkosky model in, Regge trajectories for repulsive collisions in, 24:37876
Wick—Cutkosky model, properties of Regge trajectories in, 24:35706
Wightman axiomatic theory of nonrenormalized interactions, 21:25340 (JINR-P2-3086)
Wightman axiomatic theory of nonrenormalized interactions, 21:25339 (JINR-P2-3085)
Wightman distributions in, singularities of, (T), 24:28594
Wightman fields in, analytic representations of two-point functions with noncanonical light cone singularities for scalar neutral, 23:30808
Wightman fields in, mathematical description of, 25:1616
Wightman formulation for nonlocalizable, existence of unitary CPT-invariant S-matrix in, 23:39786 (ITF-69-25)
Wightman formulation of nonlocalizable, 23:39785 (ITF-69-23)
Wightman formulation of nonlocalizable, existence of unitary CPT-invariant S-matrix in, 24:30564
Wightman formulation of, self-adjoint algebras of unbounded operators in, 24:43011 (NYO-2171-318)
Wightman function in, duality between Feynman integral and perturbation term of, 22:50444
Wightman function representation in terms of two-point singular functions in, 23:39792
Wightman functional and commutation relations representation for construction of, metrics in space in, 24:18283
Wightman functional in local, with finite multiplicity of vacuum degeneration, 24:30565
Wightman functional in, commutative algebra of operators for, 23:3793 (ITF-68-18)
Wightman functionals in, moments problem and continual integral representations of, 25:28079
Wightman functions for arbitrary-spin fields, spin—statistics theorem from spectral representations for two-point, 25:53325
Wightman functions for large space-like separation of arguments in, decrease of truncated, 22:35089
Wightman functions in Euclidean, analytic, 23:46811
Wightman functions in model with mass renormalization in, 25:14794
Wightman functions in scalar field model, 23:10850
Wightman functions in, Lorentz convariant distributions for, 22:50447
Wightman functions in, upper bounds on holomorphy envelopes for, 22:35074
Wightman, reconstruction theorem for neutral scalar field in, 25:38778
Wightman-type functionals in, integral representations of, 23:8846
Yang—Mills field in, 25:22884
Yang—Mills field in nonlinear gauge,S-matrix for, 25:1613
Yang—Mills field in radiative gauge in, Green function for, 23:51986
Yang—Mills field in, canonical gauge- and Lorentz-invariant quantization, 24:18271
Yang—Mills field in, electromagnetic part of, 23:3811
Yang—Mills field in, massive and massless, 25:59601
Yang—Mills field in, massless limit of massive, 25:20075
Yang—Mills field in, S-matrix for, 24:18152 (IC-70/1)
Yang—Mills field in, S-matrix formulation for, 25:9857
Yang—Mills field in, Schwinger equations for, 25:56561
Yang—Mills field in, zero-mass limit and renormalizability for massive, 25:22891
Yang—Mills field interactions with isotopic-spin particles in, classical equations for, 24:15647
Yang—Mills field, cancellation between longitudinal and scalar components in interactions of massless, 25:9851
Yang—Mills field, Noether theorem and factor-ordering problems in quantization, 25:30988
Yang—Mills fields in, Dirac isotopic current operator in, 22:48354
Yang—Mills fields in, equal-time commutation relations between components of current and energy—momentum tensor in external, 25:53351
Yang—Mills fields in, Feynman rules in perturbation theory of massive, 24:3742
Yang—Mills fields in, massive, 23:25683 (CERN-69-7, pp 391-3)
Yang—Mills fields in, massive and massless, 25:33808
Yang—Mills fields in, nonexistence of classes of, 22:11723
Yang—Mills fields in, nonlinear realization of SU(3) x SU(3) for splitting of, 23:23512
Yang—Mills fields in, perturbation theory of, 23:3792 (IPNO/LA-68/28)
Yang—Mills fields in, perturbation theory of massive, 23:5668
Yang—Mills fields in, renormalization of massless, 25:59571
Yang—Mills fields in, self-coupled generalized, 23:1685
Yang—Mills fields in, self-interaction and gauge invariance for nonlinearities of, 25:41080
Yang—Mills fields in, Ward identities for diagrams for, 25:1623
Yang—Mills fields with nonzero mass, chiral SU(2) x SU(2) group for, 25:47943
Yang—Mills fields with symmetry breaking, equal-time commutation relations and ω—phi mass-mixing model from algebra of, 24:15639
Yang—Mills gauge theory of supermultiplets for hadrons in, 24:49563
Yang—Mills gauge transformation in, 25:5410
Yang—Mills model of weak interactions, massive, 25:19969
Yang—Mills theories for compact simple Lie group as internal symmetry for meson—nucleon interactions, Lagrangian method for, 23:39820
Yang—Mills theories in, higher groups for divergence of massive, 25:56542 (CNRS-CPT-71/P-378)
Yang—Mills theory for chiral current algebra relation with fields of vector and axial vector mesons, generalization of, 22:32127
Yang—Mills theory in, geometrical derivation of conservation laws in, 24:30561
Yang—Mills theory in, Reggeization of spinor in, 25:1605
Yang—Mills theory in, SU(2) representations for nonlocal, 24:15667
Yang—Mills theory in, theory of currents as limit of, 22:37112
Yang—Mills theory in, tree graphs in massless, 25:25486 (JINR-P2-5616)
Yang—Mills theory in, vector-particle current definition and polarization operator in, 24:30559
Yang—Mills theory with arbitrary mass in, renormalization of, 23:30791 (ITF-69-20)
Yang-Mills field in, existence of charged states of, 25:7714
Yang-Mills field interactions with electromagnetic fields in, current and field commutation rules from gauge invariance of second kind for, 24:37887
Yukawa Hamiltonian in, self-adjointness of, 25:7725
Yukawa interactions in, Heisenberg picture field operators for, 23:8845
Yukawa model in, asymptotic fields for approximate renormalized two-dimensional, (T), 25:43667 (ITF-71-12-P)
Yukawa, vacuum vector of Hamiltonian in, 25:36572
Zachariasen model with CDD pole, Lagrangian formulation of, 24:20221
Zachariasen—Thirring model in, asymptotic condition in, 23:18966
Zachariasen—Thirring model in, complex Lee—Wick poles as CDD ghosts in solution of, 24:24427

QUANTUM MECHANICS

see also Mathematics
see also Physics
see also Quantum Electrodynamics
see also Quantum Field Theory

action principle for Lagrangians with higher-order derivations in, 24:13147
action-angle variables in, relation to second quantization, 25:1342
adiabatic approximation in, 24:21902
adiabatic invariants in, role of, (T), 21:15243
adiabatic theorem in, extension to atomic collisions, 24:17703
algebra SO(2,1) for relativistic and nonrelativistic, spectrum-generating, 25:38788
algebraic formalism of, basic concepts of, 23:21025
algebras of observables with continuous representations of symmetry groups for, definition of, 22:35095
algorithms for calculation of eigenvalues of two-center problem in, (T), 25:9600 (JINR-P4-5040)
amplitudes in Coulomb scattering in N-dimensional space, (T), 23:42528
analysis of algebraic and analytic relations between classical problems in, 22:22257
analysis of Einstein—Bohr experiment, 21:21115
angle and phase coordinates in, 24:15424
angular analyses in relativistic, 23:18750 (CEA-R-3608)
angular coordinate in regular and phase space, use of hq representation for, 23:36810
angular momenta coupling in, graphical method for, 21:21263
angular momentum in, Bargmann space calculations for, 25:56395 (BNWL-1551(Vol.2)(Pt.1), pp 108-12)
angular momentum in, Dirac bracket for Schwinger calculus of, 22:39299 (IPNO/TH-123)
angular momentum in, field configurations and parameters that identify j = 1 states, 23:18761
angular momentum in, quatization of rigid rotator for Schwinger's, 23:3624
angular momentum in, semiclassical limit of Racah coefficients for, 23:18765
angular momentum in, topological characteristics in theory of, 23:7069
angular momentum matrices in, computer method for traces of products of, 23:5502
angular momentum operator equivalents for, use of, 21:7027
angular momentum quantization by simple harmonic oscillator, 25:45623
angular momentum reduction in three-body problem, nonexhaustive restatement of, 25:59206 (LYCEN-7118)
angular momentum uncertainty relation in, operators for, 21:15405
angular symmetry properties of 2-matrix and rotational symmetry properties of two-particle density matrix, 22:52899
angular-momentum decomposition of the three-body problem in, 25:12644
anharmonic oscillator in, Borel summability method for energy levels of arbitrary, 24:47503
anharmonic oscillator in, derivation by perturbation method of, 21:40126
anharmonic oscillator in, Pade approximants of perturbation series for eigenvalues of, 24:10817
anharmonic oscillator in, summation methods for perturbation series of generalized, 25:47697
anti-correlation effects in optics, 21:13655
application of Ritz method to nonstandard eigenvalue problems, (T), 24:23563
approximation of the Dirac electron theory, third-order nonrelativistic, 21:31507
approximations deduced from association of Milne and Schroedinger equations, 25:5234 (CEA-R-4007)
atomic effective potential calculations from x-ray s terms, method for, 22:5051
axiom system for, 22:13616
basic algebra of antilinear operators, 21:44229
basis for Wiedemann—Franz law in, (T), 23:44578
Bethe hypothesis for anisotropic Heisenberg model, (T), 22:7637(R) (COO-1573-33)
Bethe—Salpeter and Lippman—Schwinger equations in relativistic, compactness proofs for, 23:46800
Bethe—Salpeter equation in, interpretation of, 22:46508
bibliography on historical development of, 22:15655
Bogolyubov transformations and extension of Wick's theorem, nonunitary, 24:17626
book: Advanced Quantum Mechanics, 22:26710
book: Advanced Quantum Theory, 23:42529
book: Angular Momentum, 22:52898
book: Application of Distributions to the Theory of Elementary Particles in Quantum Mechanics, 23:3662
book: Application of Group Theory in Quantum Mechanics, 22:32180
book: Applications of Group Theory in Quantum Mechanics, 24:15611
book: Approximation Methods of Quantum Mechanics (in Russian), 21:42233
book: Approximation Methods of Quantum Mechanics (translated from Russian), 23:1571

book: Classical and Quantum Theories of Spinning Particles, 22:44380
book: Classical Mechanics, Quantum Mechanics, Field Theory, 21:18875
book: Commutation Properties of Hilbert Space Operators and Related Topics, 22:20105
book: Conceptual Development of Quantum Mechanics, 21:7031
book: Differential Space, Quantum Systems, and Prediction, 21:2345
book: Elementary Quantum Chemistry, 23:18435
book: Elementary Quantum Mechanics, 23:51825
book: Elements of Advanced Quantum Mechanics, 23:46639
book: Engineering Quantum Electrodynamics, 24:42855
book: Equilibrium Statistical Mechanics, 22:15657
book: Field Theoretical Methods in Many-body systems, 21:35245
book: Formulations of Classical and Quantum Dynamical Theory, 25:9840
book: Foundations of Classical and Quantum Statistical Mechanics, 24:42854
book: Foundations of Physics, 21:42237
book: Foundations of Quantum Mechanics, 22:15656
book: Fundamental Principles of Modern Theoretical Physics, 24:42853
book: Fundamentals of Quantum Optics, 22:17843
book; Geometry of Quantum Theory, Vol. I, 23:51816
book: Harmonic Oscillator in Modern Physics: from Atoms to Quarks, 24:42934
book: Introduction to Quantum Mechanics, 23:10730
book: Introduction to Quantum Mechanics and Its Application, 24:49289
book: Introduction to Quantum Theory, 22:15658
book: Introduction to the Principles of Quantum Mechanics, 23:42526
book: Introduction to the Quantum Theory, 22:24512
book: Introduction to the Quantum Theory of Scattering, 24:6767
book: Lectures in Theoretical Physics, Vol. 8A, Statistical Physics and Solid State Physics, 21:23021
book: Lectures on Quantum Mechanics, 23:34518
book: Lectures on Quantum Statistics, Vol. 1, 22:13627
book: Many-Body Problems, 23:44575
book: Many-Electron Systems: Properties and Interactions, 22:13628
book: Mathematical and Theoretical Physics, Vol. I, 25:12048
book: Mathematical and Theoretical Physics, Vol. II, 25:12049
book: Mathematical Foundations of Quantum Mechanics, 22:43918
book: Mathematical Principles of Quantum Mechanics, 23:1199
book: Matrix Methods in Quantum Mechanics, 23:3623
book: Method of Phase Functions in Quantum Mechanics, 23:30680
book: Methods in the Quantum Theory of Magnetism, 21:37649
book: Methods of Molecular Quantum Mechanics, 25:2927
book: Modern Physics for Electrical Engineers, 21:35035
book: Modern Quantum Mechanics with Applications to Elementary Particles Physics, 23:51875
book: New Method of Quantum Mechanics, 24:3489
book: Nonrelativistic Quantum Mechanics, 22:46292
book: Nuclear Physics: An Introduction, 23:23783
book: Perturbation Theory and Its Applications in Quantum Mechanics, 21:21128
book: Physics Pocket Book, 22:1374
book: Problems of Quantum Theory of Atoms (in Russian), 24:47041
book: Problems of Theoretical Physics, 24:49282
book: Pseudopotentials, 22:7418
book: Quanta, 24:45583
book: Quantum Electronics. vol. I. Basic Theory, 24:5962
book: Quantum Electronics. vol. II. Maser Amplifiers and Oscillators, 24:5961
book: Quantum Mechanics, 22:50272
book: Quantum Mechanics, 23:46581
book: Quantum Mechanics (translated from Russian), 23:1572
book: Quantum Mechanics and Atomic Physics, 25:12052
book: Quantum Mechanics for Science and Engineering, 23:21024
book: Quantum Mechanics of Atomic Spectra and Atomic Structure, 25:40396
book: Quantum Mechanics with Applications, 24:40217
book: Quantum Mechanics, 2nd Ed, 24:18050
book: Quantum Mechanics. Vol. II. New Quantum Theory, 21:11731
book: Quantum Statistical Mechanics, 22:15654
book: Quantum Theory (in German), 24:49279
book: Quantum Theory and Statistical Physics, 23:5498
book: Quantum Theory of Many-particle Systems, 25:33819
book: Quantum Theory of Matter, 23:1570
book: Relativistic Quantum Theory, 23:21017
book: Relativity and Quanta. The Great Theories of Modern Physics (In French), 24:20222
book: Scattering, Reactions and Disintegration in Nonrelativistic Quantum Mechanics, 21:37951
book: Scattering, Reactions, and Disintegrations in Nonrelativistic Mechanics (in Russian), 25:59612
book: Seminar in Theoretical Physics, 23:18831
book: Sources for History of Quantum Mechanics, 22:15655
book: Special Relativity and Quantum Mechanics, 22:50267
book: Spectroscopic and Group Theoretical Methods in Physics, 23:18766
book: Statistical Physics, Phase Transitions, and Superfluidity, 25:27912
book: Symmetry Principles in Quantum Physics, 24:42995
book: Symposia On Theoretical Physics. Vol. V, 22:13623
book: The Application of Group Theory in Physics, 22:39448
book: The Many-body Problem in Quantum Mechanics, 22:11564
book: The Old Quantum Theory, 21:29414
book: The Spatial Quantum Mechanical Axial and Shell Structure of the Atomic Nucleus, 22:27395
book: Theoretical Physics: Applications of Vectors, Matrices, Tensors, and Quaternions, 23:21028
book: Theory of Finite Groups: Applications in Physics, 22:46302
book: Theory of Groups in Classical and Quantum Physics. Vol. 1. Mathematical Structures and the Foundations of Quantum Theory, 22:7465
book: Thermodynamics and Statistical Physics, 24:28462
book: Variational Principles in Dynamics and Quantum Mechanics, 24:3488
book: Vector Bundles in Mathematical Physics. Volume II. Applications to Quantum Mechanics, 25:33503
book: Wave Mechanics, 22:1401
book: Wave Mechanics, 24:3481
book: Wave Mechanics of Atoms, Molecules, and Ions, 22:43908
Born approximation in, use of inverse functions of products of two Bessel functions in determining potential from phase shifts in, 23:1708
Born—Oppenheimer approximation in, accuracy of, 23:14935
boson amplitude operators in, ordered expansion in, 23:18773
boson systems in, upper bound to ground-state energy of, 23:51824
bosons in relativistic, bound-state and scattering problems for scalar, 25:17559
bound state in relativistic, anomalous and normal behavior of form factors of, 22:15845
bound states and Levinson's theorem for nonlocal s-wave potentials, 22:32692
bound states in many-body problem, infinitude of finiteness in, 25:7508
bound states in relativistic, 25:33814
bound states in, iterature procedure for calculating, (T), 23:21026
bound-state equations in, factorization method of solution of, 25:59227
boundary conditions for an infinite square-well potential in, (T), 25:43508
Breit—Pauli hamiltonian in, one- and two-cluster expansions of, 22:52910
Brownian motion in quantum fluid, theory of low-temperature limit, 21:33564
C*-algebra model for, 24:26456
calculation of lowest poles of two-point functions in, by functional integration, (T), 23:46576
calculation of matrix elements of one-body operators in many-nucleon systems, 24:43486
calculation of three-dimensional anisotropic harmonic oscillator in, 24:3485
calculations in, 23:5495(R) (NYO-1480-83(Pt.3))
calculations in, 23:5494(R) (NYO-1480-83(Pt.2))
canonical quantization of dynamical systems, differential geometry of, 22:34813
canonical quantization theory for, 24:51865 (AD-708490)
canonical transformation in classical and, 24:15435
canonical transformations for matrix elements of multipole operators between single-particle states in harmonic oscillator potential in, 25:52983
canonical transformations in, 25:52976
canonical transformations of commutators in, nonclassical general covariance for, 24:15431
canonical transformations, unitary representations of linear, 25:52982
causal interpretation of wave mechanics, point dynamic model for, 25:17335
causality and invariance principles for nonrelativistic, Newton's second law and gravitational equivalence principle from, 24:3711
causality and Lorentz invariance in relativistic, 25:14508
causality in, paradoxes related to full, 25:5307 (RLO-2041-49)
charge density in Klein—Gordon fields, expression for, 21:33565
charged-particle scattering by short-range central field, Levinson theorem and quantum defect for, 22:53230
classical equations of motion for spin-$^{1}/_{2}$ particles in external fields, (T), 21:3963
classical functions corresponding to quantum operators, 24:37589
Clebsch—Gordan and Racah coefficients in, computer program for, 21:40123 (ORNL-TM-1949)
Clebsch—Gordan coefficients for SU(3) as contained in R_3 in different bases, 24:13418
Clebsch—Gordan coefficients in, negative quasibinomial representations of, 22:48338
Clebsch—Gordan coefficients in, square symbol for quasibinomial representations of, 22:48337
coherent states in statistical, (T), 22:1367 (NYO-3699-16)
coherent states in, construction from condition of minimum uncertainty of, 22:3229
coherent states in, SO(2,1) group for, 25:47918
coherent states in, time development of, 22:3230
collapse onto scattering center for attractive potentials in, 24:40221
collective variables in theory of quantum plasma, 21:37634
computation of Moshinsky brackets by direct diagonalization, 25:20526
concept of minimal measurement in, derivation of change of state in measurement from, (T), 24:6677
conference, 21:7559
conference on atomic, molecular, and solid-state theory and quantum biology, Sanibel Island, Florida, 1/68, 23:18754
conference on quantum chemistry of atoms, molecules, and solids, 22:26545
conference on quantum fluids, Haifa, Israel, 7/28-8/16/68, 24:49291
conference on three-body scattering in, 23:32774
conjugate variables in two-body collisions, 25:43724
connection of two-time advanced and retarded Green functions method with kinetic equations in statistical mechanics, 21:33549 (ITF-67-2)
constants of motion of a neutral system of charges in a static, homogeneous magnetic field, (T), 21:37626 (UCID-15180)
construction of macroscopically local relativistic, (T), 21:42234
continuity in, (T), 24:5229
convergence of certain distorted-wave approximations of the Faddeev equations, 25:25815
coordinate transformations in, time-dependent, 25:52977
corrections to pair distribution function of classical plasma, 22:41587
correlation functions and quasi-probability distribution functions for electromagnetic fields in, 22:34816
correspondence between classical mechanics and, 23:42519
correspondence between Dirac and classical theories for particles with spin, 21:3944
correspondence principles in dynamics, 22:13626
correspondences with classical mechanics, (T), 25:33515
Coulomb wave functions in, Lie algebra for radial, 21:20738
criticisms of quantum logic, 25:50043
currents as coordinates in nonrelativistic, 23:3617 (AD-671202)
currents as coordinates in nonrelativistic, 23:7132
curvature theorem for, 25:1344
De Broglie momentum energy tensor and spin density in vanishing wave, 24:40208
debate on reality in, (T), 25:30700
decay in two-level system, modulated, 25:27939
decay of unstable system in, initial-value approach for law of, 25:25275
defects of the spectrum of the Schroedinger radial equation, (T), 22:26537
definition of states in statistical, 21:3968
density matrices in, diagram method for, 23:5500
density matrix for two-particle Coulomb interaction, 23:1566
density matrix formalism and relaxation phenomena in, 21:46374
density operator and multitime correlation functions for open systems, 25:27936
density operators and quasi-probability distributions in, 23:18774
density-matrix variational principles at finite temperatures, (T), 22:3223 (UCD-CNL-82)
derivation of Pryce—Foldy—Wouthuysen transformation, 25:27937
derivation of the quantum kinetic equation, 21:44111
description of Birkhoff and von Neumann, 22:44291
determination of absorption coefficient of negative hydrogen ion, (T), 22:996
development of Schroedinger equation from new formulation of stochastic theory, 23:5499
development of WKB approximation using transformations, 25:27938
diagonalization procedure for Bose-system Hamiltonian, 21:3939 (RISO-127)
diagram renormalizations, variational principles, and infinite-dimensional Ising model, 22:32029
dielectric screening function in, self-consistent higher-order corrections to, 23:30677
difference methods for one-dimensional problems in, trigonometric interpolation, 24:28453
Dirac and Klein—Gordon operators in relativistic, functional calculus and perturbations of pseudo-resolvents for, 25:53307
Dirac Coulomb problem in, O(4,1) group for, 23:32783
Dirac density matrix, asymptotic expansions of, 21:17005
Dirac electron and hidden momentum forces, (T), 23:27728
Dirac equation at high energies in, 23:27763
Dirac equation equivalent representations in, 21:42284
Dirac equation for free electron, reduction to nonrelativistic form, 25:56391
Dirac equation for rectilinear motion of an electron, (T), 23:30682
Dirac equation in continuum in, nonrelativistic limit of, 24:51872
Dirac equation in relativistic, quantization of space-time for generalization of, 25:25503
Dirac equation in, finite- and infinite-component fields and equations generated from, 23:39631
Dirac equation in, generalization of case's transformation of, 23:30678
Dirac equation in, hidden O(3) symmetry of, 25:25507
Dirac equation in, Majorana representation of generalized, 25:33820
Dirac equation in, Maxwell equation relation with, 25:41053
Dirac equation in, nonuniqueness of, 24:15425
Dirac equation in, one-dimensional square potential in, 25:20065
Dirac equation in, symmetry of, 23:18934 (KFKI-31/1968)
Dirac equation solutions for oblique electric and magnetic fields, 24:45391
Dirac equation solutions in a magnetic field, 25:3230
Dirac equation with Coulomb potential, algebraic method for, 25:47698
Dirac equation with electric and magnetic Coulomb potentials, degeneracy of, 24:15662
Dirac equations for, magnetic fields for solving, 25:33514

Dirac Hamiltonian and Feynman propagator in relativistic, 23:15228
Dirac Hamiltonian as member of hierarchy of matrices, 22:7553
Dirac Hamiltonian in, nonrelativistic approximation for, 22:5468 (NP-17121)
Dirac Hamiltonian in, nonrelativistic approximations of, 22:41714
Dirac Hamiltonian with equivalent oscillator potential, exact solution of, 23:32597
Dirac magnetic poles in, (T), 23:23415
Dirac particles in, one-particle operators for, (T), 23: 30683
Dirac plane waves in relativistic, mathematical property of, 25:17563
Dirac radial equation in, formula for bound-state eigenvalue problem for, 23:42517
Dirac solution in the field of two beams of electromagnetic radiation, 21:13657
Dirac spinors in relativistic, classes of transformations of, 23:39806
Dirac—Fierz—Pauli equation for spin-$^{3}/_{2}$, reformulation of, 24:47485
Dirac—Hestenes equation for central fields, planar solutions of, 24:49292
Dirac—Hestenes theory in, kinetic and magnetic moments from, 25:17342
Dirac—Pauli equation for plane-wave external fields in, exact solution of, 22:41856
Dirac's equations for inverse scattering data in, 21: 13658
discretization in astronomy, (T), 25:4933
distribution function in, WKB approximation for radial, (E/T), 21:18870
divergence in Born series, new method of removal of, (T), 24:3478
double dispersion relations in statistical, (T), 24:40216
dualism in, wave-particles, (T), 22:44280
dynamic variables in relativistic, covariant formalism for, 21:7549
dynamical groups in, general theory and spinless model for limitable, 23:1607
dynamics of guiding in a dispersive refracting medium, (T), 21:42229
dynamics of macroscopic variables in irreversible processes obeying closed phenomenological law, (T), 23:14937
dynamics of stimulated scattering processes, 23:13011
e/h constant remeasurement using ac Josephson effect, 24:37592
effective pair potential of quantum ideal gases, 22:13618
effective spin Hamiltonian for coarse structure states in, 25:43164
eigenfrequencies of wave equation for finite domain, distribution of, 25:9604
eigenfunctions for Schroedinger operators in, pointwise estimates of, (T), 25:1343
eigenvalue calculations by boundary-condition method, upper and lower bounds for, 23:18755
eigenvalues in, lower bounds to, (T), 23:46588
eigenvalues of asymmetric rotator in, analytic interpolation of, 25:20513
eigenvalues of electron in field of electric dipole, relativistic corrections to ground-state energy, 25: 36371
eigenvalues of orbital angular momentum, 23:25476 (ISSP-A-342)
eigenvalues of two- and three-dimensional systems by matrix methods, 24:45394
electromagnetic coupling in, Lagrangian formulation of, (T), 23:46577
electromagnetic field interaction with three-level system in, semiclassical, (T), 25:38602
electromagnetic fields in, parametric amplification of, 21:42445
electromagnetic fields in, parametric amplification of, 21:42444
electron in uniform time-dependent field, (T), 25:38612
electron motion in quantized field of flat electromagnetic wave, 25:3233
elementary excitations in system of charged particles in magnetic field, 25:36359
energy and equation of state of electron gas, 21:18869
energy and particle density of Dirac field, 23:46575
energy concept in classical and, (T), 23:46585
energy eigenvalues for local potential, numerical calculation of S-state, (T), 25:27933
energy level density in, path representations of, 22: 41705
energy level representation for statistical physics, (T), 23:21014 (ITF-68-57)
energy levels and Lorentz invariance in, 25:36374
energy levels and Lorentz invariance, (T), 25:1354
energy levels in, complex angular momentum for unstable, 21:2397
energy loss of heavy charged particle in matter, (T), 22: 2785
energy of a two-particle system, rotational, 24:21900 (FEI-159)
energy of model dynamical systems of BCS type, free, 22:32028
energy of quantum system subjected to periodic action, (T), 21:5340
energy of system of interacting particles in Schroedinger formalism, variational method for estimating, 23:15348
energy operators for infinite systems, model function for self-, (T), 23:23312
energy operators of many-body systems in, invariance of spectrum of, 25:5241
energy states and statistics of atomic systems, 25:56397
energy—momentum tensor for Dirac field, (T), 23: 27727
energy-level crossing in, (T), 23:36814
energy-moment methods in, 22:5485
entropy in, conjecture by Robinson and Ruelle on, 24: 49283
entropy in, local, 25:40840
entropy of states in, mean, 22:46300
epistemology of, 24:5227
equations for one-dimensional two-particle models, solution of Schroedinger, 21:37630
equations in, finite solution of radial Schroedinger, 21: 18866
equations in, relation to spin-wave theory, 24:42849
equations of de Broglie wave field in space—time, 21: 3949
equations of motion for nonlinear oscillator, relation between asymptotic behavior, renormalization, and, 22:15647
equations of motion for nonrelativistic charged particle in electromagnetic field, (T), 21:21112
equations of motion in, relation to classical mechanics, 24:17624 (NYO-3829-45)
equivalence in, role of, 22:32034
exclusion principle in, effects on permutation group, (T), 25:59235
expansion for Green's functions in many-body problem in, (T), 21:11727
expansion formula for Meijer's G-function involving Legendre functions, (T), 23:51817
expansion in quantum many-body problem, density-field method of, 21:31505
expansion of quantum phase space probabilities into classically deterministic parts, 23:7070
expectation values in few-body problem, error bounds on, (T), 21:46820
exponential decay law of unstable particles, 25:33478 (ITEF-773)
extension of time-dependent statistical, by generalization of perturbation theory, 24:42852
extension of WKB approximation to three dimensions in, 21:31879
failure of Mayer irreducible cluster theorem with wave mechanics, 21:7381 (UCRL-14452)
Fermion operator ordering and quantum c-number correspondence, 24:20016
Feynman diagram model in relativistic, Fubini identities for, 22:15842
Feynman formulation for, 22:1479
Feynman one- and two-order diagrams for radial integrals in, 22:37065
Feynman path integrals in imaginary time and spherical polar coordinates, Monte Carlo evaluation of, 24: 20029
Feynman path integrals in imaginary time, Monte Carlo evaluation of, 24:20011
Feynman—Schroedinger equations and method of statistical perturbations, 23:18769
Feynman's approach to, possible relativistic generalization of, 25:17348
field theory equations in, Wentzel—Kramers—Brillouin method for reduction to quasiclassical form for, 22: 39465 (ITF-67-53)
field-theory method for solving many-body problem in, (T), 23:14927
finite translations in solid-state physics, eigenvalues of, 22:7406
fluctuation and coherence phenomena in classical and, 25:27947
flux equilibria in quantum systems, 24:37586
Foldy—Wouthuysen transformation for relativistic symmetric Hamiltonian in, 22:22266
formalism considering electromagnetic fields, 25:12062
formalism for double groups, alternative for, 24:45392
formalism for Hamilton's principle of stationary action, 21:2339
formalism for justification of ensembles in quantum statistical mechanics, 25:3238
formalism for justification of ensembles in quantum statistical mechanics, 25:3237
formalism for nuclear reactions using irreversible density matrix, 23:32969
formalism for relativistic, for propagation of signals and particles, 23:23396
formalism for three-body problem including Coulomb forces, 21:30066
formalism of, 22:13615
formalism of classical limitation of mechanics and, 24: 42848
formalism of differential-space quantum theory, 25:7511
formalism of differential-space quantum theory, 25:7512
formalism of general self-consistent field theory for, 23: 39341
formalism of nonequilibrium quantum statistics, 25: 50040
formalism of relativistic statistical, Liouville equations for, 24:47247
formalism of relativistic, canonical proper-time, 25: 56555
formalism of stochastic, method comparison for, 24: 12916
formalism of, sources for, 21:37650
formalism using combination of Schroedinger, Heisenburg, and Dirac methods, 24:47349
formulation for paraparticles, 23:23403
formulation for relativistic scalar particles, proper-time, 22:20325
formulation for scalar particles in, Wigner, 24:35591
formulation from statistical nature of physical data, 24: 26346
formulation of nonrelativistic, in terms of currents, 23: 18990
formulation of particle mechanics containing, (T), 21: 37627
formulation of relativistic, for spin-$^{1}/_{2}$ fermions in external electromagnetic field, 25:9841
formulation of relativistic, without fields, 25:33813
formulation of the deuteron wave function, (T), 24: 18356
formulation of, extension of Poincare algebra for proper-time, 25:30983
formulation of, hydrodynamic, 24:37594
formulation of, remarks on conceptual frame of, 24:6671
formulation of, stochastic approach to, 24:15651
Fouldy—Wouthuysen transformations and related problems in, 25:3231
foundation methodology and philosophy of, 21:37651
four-body bound-state problem for identical particles, (T), 25:36364
four-particle systems in, rotational and vibrational excitations of, 23:11046(T) (BNL-tr-233)
functional equations for anharmonic oscillator in, 25: 43678
functional integration methods in, lectures on, 24:37407
functional method in statistical, (T), 24:49288
functionals in statistical and, subsidiary conditions for generating, 25:56556
Galilean transformations in relativistic, 25:17554 (JINR-P2-5523)
geminal expansion of many-electron wavefunctions, sum rules in, 21:33548 (AAEC/TM-382)
general statistical fluctuation theorems in, 21:35243
generalized eigenvalue problems in, 21:27269
generalized Kramers—Fokker—Planck equation, (T), 25: 1341
generalized localizability in, (T), 21:37629
geometrodynamics and superspace in, 23:16998
Green function method for electron gas in field of electromagnetic wave and homogeneous magnetic field in, 23:23303 (ITF-68-88)
Green function problems in, 25:1348
Green's function application in, (T), 22:24501
Green's function in, second-order approximations for, 25:33501
ground-state energy eigenfunctions for finite dipole in spherical coordinates, 24:18045 (ORNL-4431)
group algebra and convolution algebra for, 21:21262
group theory applications to, book on, 21:15376
group theory for permutation degeneracy in four electrons in, (T), 25:59235
group theory in, noninvariance, (T), 23:18778
Hamilton—Jacobi formalism of general relativity, 22: 37195
Hamiltonian and Lagrangian formalisms in, consistency between, 25:59558
Hamiltonian form of Kemmer equation, 21:37642
Hamiltonian formalism for arbitrary-spin and nonzero-mass particles, covariant, 23:8838
Hamiltonian formalism for exactly solvable N-body problem, 25:36370
Hamiltonian in second quantization, diagonalization method of, 23:39800
Hamiltonian in second quantization, diagonalization method for, 24:43021
Hamiltonian in, construction of diagonal sets commuting with, 25:59222
Hamiltonian in, diagonal sums of self-adjoint operators on infinite tensor product spaces for, 24:10810
Hamiltonian in, methods in wave statistics for linearizing second-order relativistic, 23:39810
hamiltonian of quantum statistics, 24:39986 (ITF-70-36)
Hamiltonian of quantum statistics, 25:3040
Hamiltonian operator in, conjugate of, 24:3484
Hamiltonian operators in, Feynman path integrals for, 24:20008
Hamiltonian with SO(4,2) spectrum-generating algebra, 25:30918
Hamiltonians and wave functions for spin 0 and 1/2 particles with nonzero mass, 24:45393
Hamiltonians as quadratic forms in, 25:27940
Hamiltonians for arbitrary-spin particles, C-, P-, and T-invariant, 21:33735
Hamiltonians for two-body, definition as quadratic forms for, 25:47693
Hamiltonians for, limit of separable potentials and operator extensions for, 24:20051
Hamiltonians in Fermi and Yukawa theories, comparison of, 23:3808
Hamiltonians in, generalized finite-matrix, 25:20066
Hamiltonians in, uses of eigenvalue problem for quadratic, 22:52903
Hamiltonization and quantization of radiatively damped systems, 24:37584
harmonic oscillator in, angular momentum coherent states in, 25:36377
harmonic oscillator in, coherent states and transition probabilities for, 25:1351
harmonic oscillator in, dynamical symmetries for energy levels of, 25:22654 (CNRS-CPT-70-P-353)
harmonic oscillator in, exact theory for time-dependent, 23:46813
harmonic oscillator in, explicit solutions for time-dependent, 25:7522
harmonic oscillator in, linear canonical transformations and their unitary representations for N-dimensional, 25:52982
harmonic oscillator in, phase ambiguity in ladder operator solution of, 24:49298
harmonic oscillator in, properties of, 23:18762
harmonic oscillator in, quasi-potential equation for relativistic, 25:5405 (JINR-E2-5339)
harmonic oscillator in, quasi-potential equation for relativistic, 25:52979
harmonic oscillator in, time evolution of randomly modulated, 24:12919
harmonic oscillator interactions with radiation field, 25: 27928 (INR-P-1203)
harmonic oscillator potential in, canonical transformations for matrix elements of multipole operators between single-particle states in, 25:52983
harmonic oscillator problem analysis using random quadratic perturbation, 25:1340
harmonic oscillators action-at-a-distance theory in, one-dimensional, 24:3486
harmonic oscillators in, one-dimensional theory of charged simple, 25:38600
harmonic oscillators in, statistical properties of systems of coupled, 22:3233
Hartree—Bogolyubov equations in, solutions for, 24: 20052

Hartree—Fock and Hartree—Bogolyubov equations in, construction using Green's function, (T), 23:30675
Hartree—Fock calculations of electron affinities in, 22:38783
Hartree—Fock equation in, formulation and solutions of unrestricted, 25:59239
Hartree—Fock equations in, computer method for numerical solution of, 24:20019
Hartree—Fock equations in, l-averaged exchange term in, 22:34811
Hartree—Fock instability in many-fermion system, 23:46582
Hartree—Fock problem in, relation between random phase approximation and, 22:35383
Hartree—Fock theory and lambda transformation in statistical, for degenerate Bose system, 25:3228
Heisenberg model in, reduced density matrices of anisotropic, 23:3626
Heisenberg's uncertainty principle in, violation of, (T), 23:46578
Hellmann—Feynman theorems in, (T), 25:43510
Hermite's reciprocity law and angular-momentum states of equivalent particle configurations, 23:27729
hidden variables for language structure in, 24:5228
hidden-variable models in, von Neumann's theorem and, 25:38599
hidden-variable theories in, 24:20009
hidden-variable theory in nonrelativistic, simultaneous measurement in, 23:46584
Hilbert space for elementary particles in, rigged, 22:13687
Hilbert space formulation generalization in axiomatic, systems of observables in, 22:34871
Hilbert space in, measurement theory in, 22:24506
Hilbert space in, translation invariance from energy—momentum for, 22:13868
history of basics of, 23:39591
history of, waves and particles in, 25:30707
hydrodynamic analogies to, 24:45386
hyperbolic equation in relativistic, boundary-value problem for nonlinear, 22:22265
hyperfine Hamiltonian in, improved relativistic correction to Fermi-contact, 25:36355 (NP-18818)
hyperquantization method, formulation of, 22:20319
impulse approximation in perturbed harmonic oscillator problem, (T), 24:6676
impurity systems at equilibrium in, statistical quasiparticles, effective Green's functions, and Landau descriptions of quantum liquids in, 25:43511
inertial potentials in general relativistic, 24:37922
information content for quantum systems in, 24:5225
information theory in, (T), 22:5483
instantaneous propagation in quantum systems, 23:1579
integral equation formulation for one-dimensional, 24:49296
integral equations for wave vectors of system with discrete set of states, 25:12051
integrals having both exponential and gaussian functions in, evaluation of, 25:56399
integration in function space and use in quantum physics, 24:37577(T) (CTO-716)
interactions of two-level systems with quantized radiation field, 22:9492
interactions of wave packets in relativistic, space—time shifts and cross sections in, 22:20260
interatomic repulsive potentials at very small and intermediate separations, (T), 21:18462
interference experiments in, deterministic, 25:27942
interference paradox in long-baseline radio astronomy, (T), 23:41817
interparticle forces in, 24:47348
interpretation of general rules of, (T), 22:3222 (TH-213)
interpretation of, alternative to orthodox, (T), 21:46438
introduction to, 21:25214 (ISS-67/1)
invariance and non-invariance dynamic groups in, 22:46476
invariance of Schroedinger equation relative to Galilean transformation, (T), 25:47689 (JINR-P2-5823)
invariance principles in classical and, 21:18853
inverse problem in complex lambda plane in presence of Coulomb interactions, 25:17331
irreducible spinors in, relativistic theory of, 23:39587
irreversible processes in, model of, 21:46455
isospin-projected FBCS wavefunctions for light nuclei, 24:43489
Jordan algebras for dynamic systems in, 25:27945
Kemmer equation and relativistic Hamiltonians for spin-one particles, reduction of, 24:51996
kinematic groups for, classification of, 23:1609
kinetic equations and Lorentz transformation in, (T), 23:16912
kinetic equations for, unified formulation of, (T), 23:16909
kinetic theory of quantum-mechanical systems, 24:12914 (AD-695410)
kinetics problems in, application of Bargmann Hilbert spaces to, 21:18856
Klein—Gordon and Schroedinger equations in, quasistationary solutions to time-dependent, 22:9678
Klein—Gordon and Schroedinger equations with vector potential in, separability of, 21:33769
Klein—Gordon equation for massless particles in, conformal invariance of, 25:53314
Klein—Gordon equation in, null and pseudonull data for scalar field solutions to, 23:1674
Klein—Gordon equations in relativistic, crossing-symmetric N/D equations corresponding to, 24:15663
Korteweg—de Vries equation for wave processes in, 22:39228
Lagrangians in, analytic regularization of series with devergent terms in, 24:10830
Landau papers on, collection of, 22:15504
length measurement in, functional manifold as basis of physical formulation for limit of, 23:39624
length measurement in, limit to accuracy of, 23:39625
Lennard-Jones potentials in, approximate analytic eigenvalues for, 25:33496
Lie algebra for dynamical symmetries in, 24:8704
Lie algebras and groups in, survey, 25:16832 (CEA-R-4112)
Lie algebras for, realization through rational functions of canonical variables for, 25:19935
Lie algebras with quantum canonical variables, semisimple, 23:15162
limits of adiabatic approximation, (T), 25:38610
linearization of the pairing Hamiltonian in, 21:30068
locality and change of state of relativistic systems of, 22:35091
localization for elementary systems in relativistic, Lorentz-invariant, 25:33831
localization for elementary systems in relativistic, 25:43577
localization for zero-mass particles in, 23:10772
logic of conclusive explication of, 25:36353 (ITF-70-61-E)
logic structure for formulation of, 23:27861
Lorentz group calculations in, reduction of wave functions to irreducible representations of, 24:20034
lower bounds to second-order corrections to eigenvalues for stationary systems, (T), 23:10733
magnetic flux quantum (h/2e) determination, (T), 23:23313
many-body problem in, 22:18033
many-body problem in, antisymmetric projection operator without spin-orbit coupling for constructing wave functions for, 22:52913
many-body problem in, density matrices in, 23:14933
many-body problem in, discrete eigenvalues for, 21:5337
many-body problem in, exact theorems for, 22:32027
many-body problem in, factorization of fractional percentage coefficients for, 23:5959
many-body problem in, field-theoretical formalism for, 21:17406
many-body problem in, formalism using methods of field theory, 21:10078
many-body problem in, including spin, 22:39222
many-body problem in, lower bounds using density matrices, 22:5475
many-body problem in, one-dimensional two-body interactions in, 22:32030
many-body problem in, path integrals method in Green function theory for, 22:32025
many-body problem in, self-consistent calculations using Hartree-Fock method, (T), 22:1743
many-body problem in, solution for nontrivial potentials, 21:30039
many-body problem in, solvable, 21:3950
many-body problem in, system description for, 24:26350
many-body problem in, theory of, 22:32026
many-body problem in, two-body potentials for bound states in, 22:30104
many-body problem with strong forces in, extension of Jastrow's method for, (T), 23:46744
many-body problems in, 21:40137
many-body problems in, lectures on, 22:13382 (NP-17258)
many-body system in, scattering theory for, 25:50191
many-body systems in, adiabatic approximation and bound states in, 22:52493
many-body systems, correlation functions in ring-diagram approximation, 22:39217
many-body theory in, formalism for derivative method in, 21:46452
many-body theory of solid state, Green's function approach to, 21:42231
many-electron systems in, properties of GF wavefunctions for, 22:41701
Markovian process for particle with additional discrete degrees of freedom in, 25:47702
Markovian processes in, 23:21022
Markovian processes in, 24:15636 (INP-681, pp 126-49)
Markovian processes in Euclidean space, 24:40220
Markovian processes in, need for theory of, 24:26352
Markovian processes in, with denumerable set of states, 24:6667
master equation for P representation, (T), 25:38608
Mathieu equation in WKB approximation, solution of, (T), 25:27935
matrices for subsystems with finite degrees of freedom, equations for density, 23:10726 (ITF-68-20)
matrix elements of Coulomb field, operator derivation of recursion relations between radial, 22:32715
matrix elements of tensor operators, reduced, 24:49281
matrix methods in, 22:46291
matrix representations in, numerical techniques for, 22:17838
Maxwell equations in, Hamiltonian form of, 24:47505
measure-relative information in, 23:27731
measurement in, 25:43523
measurement in, critical survey of, 25:47692
measurement in, possibility of, 24:20040
measurement in, state reduction in, 25:47695
measurement interpretations in, 24:20007
measurement of e/h constant using Josephson frequency/voltage ratio in superconductors, 23:14733
measurement problem in, (T), 22:46304
measurement problem in, insolubility of, 25:9612
measurement problem in, mathematics of, (E), 25:52986
measurement problem in, relation of time scales to, (T), 25:36372
measurement processes in, model for, 22:39215
measurement theory axioms in, 23:27730
measurement theory in, 21:33585
measurement theory in, 22:15648
measurement theory in, 22:15649
measurement theory in, 23:23305 (ORO-2408-11)
measurement theory in, 25:17336
measurement theory in, 21:42228
measurement theory in relativistic, space—time structure for, 24:37860 (NYO-3829-53)
measurement theory in, fundamentals of, 23:23307
measurement theory in, relation with symbolic logic for, 22:22262
measurements in, analysis, 22:24495
measurements in, hidden variable theory of, 24:37581(R) (NYO-3406-17)
measurements in, idealized trajectory, 22:26539
measurements in, imposition of empirical acceptability conditions on sequences of single, 23:30679
measurements in, relation to theory, 22:44292
measurements in, theory for, 25:9603
method for calculation of intensity of forbidden transitions, variational, 21:21589
method for one particle bound to two identical fixed centers, 25:7151
method for renormalization in many-particle systems, Hamiltonian perturbation, 21:7394
method for renormalization in many-particle systems, statistical perturbation, 21:7395
method of complex coordinates for 3-body calculations above the breakup threshold, 24:15961
model for Moessbauer line narrowing, 22:1352
model for time development of interacting many-body systems, 24:12915
model for, coordinate and momentum observables in axiomatic, 22:13619
model in statistical, exact solution for relaxation processes by, 23:32593 (ITF-69-12)
model-independent analysis of nonrelativistic multiparticle reactions, 24:28463
modular variables in, 22:39213 (AD-668099)
molecular bound state in, new type of, 24:49297
moment of inertia in Hartree—Fock theory, 23:42994
momentum correlation functions of weakly interacting, many-particle systems, (T), 21:17008
momentum operators in, (T), 21:7374 (AD-633674)
momentum operators in, representation of, 23:14934
momentum principles in review of angular, 24:37579 (LA-4394)
momentum quantization in periodic structures, linear, (T), 23:23308
Morse elastic scattering in, effects of Coulomb field on, (T), 24:20035
motion of particles constrained to surfaces in, (T), 25:38624
noise in systems in, description of, (T), 21:33566
nonperturbative approximation schemes in, systematic, (T), 23:18749 (AD-672846)
nonrelativistic quantization of space, Coulomb field effects in, 21:15236
nuclear many-body problem in, solution using shell model, (T), 21:17321 (NP-16589)
nuclear matrix elements for one- and two-particle operators in, (T), 23:19374
nuclear reaction theory in, lectures on, 23:11043 (ANU-P-382)
nuclear structure calculations in, using Schroedinger equation defined on Riemann manifold, (T), 23:19359
nuclear theory in, lectures on group theory for, 25:47865
nuclear three-body problem in, factorization of two-particle T-matrix in, 23:11049 (JINR-P4-4144)
observables in, local, 25:45622
observation problem in, review of, 24:24197
one-body Wigner—Moyal density for a locally linear potential of arbitrary dimension, (T), 21:35236 (NYO-1480-75)
operation equations in perturbation theory, (T), 22:3227
operational approach to quantum probability, 24:42850
operational interpretation of nonrelativistic, (T), 23:27722
operations and measurements in, 24:26491
operations in, classes of, (T), 25:47694
operator and superoperator formalism in, perturbation series in, 25:33502
operator calculus for, 21:5345
operator for coherent states in, unity, 22:50266
operator in, analyticity properties of exponential, 22:32020 (ITF-67-20)
operators and phase-space methods in, calculus for functions of noncommuting, 25:7519
operators and phase-space methods in, calculus for functions of noncommuting, 25:7518
operators and phase-space methods in, calculus for functions of noncommuting, 25:7517
operators for free particles in, spin-matrix polynomials for Hamiltonian and polarization, 21:9727
operators in, commutation relations from O(n) group for creation and annihilation, 23:10836
operators in, helicity representations of coordinate, momentum, and angular momentum, 25:7525
operators in, kernels realizing associative multiplications between phase space functions for ordered, 25:50172 (ORO-3992-19)
operators in, self-adjoint algebras of unbounded, 25:47700
operators in, use of evolution, 23:13007
operators of complex coordinate and momentum in, infinitesimal operators of Lorentz group from, 21:27322
optical coherence in Bose field, (T), 21:7390
orbital angular momentum and group representations in, 22:34808
orthogonal classification of alpha-particle wave functions, 21:35521
orthogonality and completeness of the rotation matrices, 22:5889
orthogonality conditions for, 22:24507
oscillator problem in, exactly solvable N-body, 25:27934
oscillator problems in, time-dependent harmonic, 24:42842 (NP-18350)
Overhauser nuclear effect in multispin systems, 24:18044
P representation in, equation of motion for, 25:59208
pair equations in, numerical solutions of, 22:41698
pair production influence on measurements in, (T), 21:13666
pairing collective degree of freedom, 24:43511
paradox of quantum-relativistic electron vibrations, 25:33513
parastatistics for identical particles, 25:38619

parastatistics with variable numbers of particles in, 25: 59561
parastochastic functions in, 24:26349
particle arrival time in, 23:39640
particle arrival time in, detector resolution effects on measurement of, 23:39638
particle arrival time in, uncertainties in statistical theory for measurement of, 23:39639
particle dynamics in, 23:39642
particle identification and subsidiary conditions from correlation functions, 24:49293
particle interaction with vacuum in, Smoluchowski's equation for interpretation of Brownian, 23:13004
particle interactions in relativistic, review of, 24:5262
particle interactions in, relativistic, 23:46810
particle momentum and coordinates simultaneous measurements in, possibility of, 25:45624
particle motion in field of two Coulomb centers, elementary solutions for, (T), 22:29598
particle motion in linear periodic array of small-radius potential wells in, 23:44580
particle motion in relativistic, energy and kinetic energy propagation for, (T), 24:43033
particle motion in Riemann manifold of Lie group, 25: 30971
particle motion, accidental degeneracies in, (T), 21:9688
particle penetration through one-dimensional asymmetric barriers, WKB approximation for, 21:23292
particle point sources with exponential decrease in Schroedinger equation, 24:18047
particle potential barriers in, wave-packet studies of penetration in, 24:45395
particle reflection above barrier energies, (T), 24:28451 (JINR-P4-4567)
particles along classical trajectories in, probability interpretation of, 25:40841
particles with symmetrized wave functions in, distinguishable equivalent, 25:43524
partition function for system of independent particles, 25:14494
partition function for, with scattering operators, 22: 32031
partition functions in, bound state and continuum contributions to two-body, 25:56396
Pauli algebra and structure of Lorentz group in, 21: 13652 (AD-639651)
Pauli principle in, dynamical theory of, 22:17881
Pauli spin operators in, generalizations of, 24:51868
penetration coefficients through one-dimensional potential barriers, WKB approximation for, 21:23295
perturbation expansions in, relevance for field-theoretic models, 21:40279
perturbation formalism for responses to time-dependent interactions in, 22:46296
perturbation method for problems in, general, 21:13661
perturbation of bound states in, formulation based on hydrodynamic analogy, 25:14054
perturbation theories in, without secular terms, 25:36376
perturbation theory for quantum oscillators, generalized, 24:32944
perturbation theory in case of two states in open shells, 22:13609(T) (ANL-Trans-551)
perturbation theory in, anharmonic oscillator in, 23: 34514
perturbation theory in, error bounds for, 23:18758
perturbation treatment of degenerate levels of a system of particles, 21:17398
phase and angle variables in, 22:24499
phase conventions for angular momentum eigenfunctions, 25:25836
phase equation for Jost function, 24:20013
phase equation in, derivation of, 24:3476
phase equation in, properties of discrete and continuous spectrum of central potential for, 24:3477
phase function methods in, review of, 22:37396
phase operator for the harmonic oscillator, 24:12917
phase operators in, use for derivation of Josephson plasma resonance, 23:39421
phase space description of relativistic quantum plasma, (T), 23:44572
phase space representation for equations of motion in, 22:39223
phase-space distributions in, 24:42845
phase-space functions in, kernels realizing associative multiplications between, 25:52980
phenomenological foundation of quantum logic, 25: 27949
photon analog for Einstein—Rosen—Podolsky paradox, 23:10728 (NYO-3406-11)
photon phase in, 25:38601
photon transition probabilities in, multi-, (T), 21:3969
physical variables in, statistical basis for, 23:46583
point transformations by isometric transformations in Hilbert space, (T), 21:31500
position operator in relativistic, Lie algebra of SO(4,2) group for, 21:27397
position operators and Lorentz-invariant localization for elementary systems in relativistic, 24:30474
position operators and proper time in relativistic, 23: 36991
position operators in relativistic, space—time, 24:30560
position operators of quantum systems described by finite- and infinite-dimensional wave equations, 23: 5509
positron operator for relativistic elementary systems in, 22:46303
potentials for Dirac, Klein—Gordon, and Schroedinger equations in, construction of solvable, 22:18038
potentials in Lagrangian and Hamiltonian formalism in, velocity-dependent, 24:49589
potentials in regularization and peratization of singular, 21:38411
potentials in, properties of singular attractive, 22:35158
potentials in, relation between nonlocal and velocity-dependent, 25:45621
potentials in, steering of several-particle systems by one-particle, (T), 25:40854
predictions in, calculations for, 25:40839 (RLO-2041-55)
probability amplitudes in relativistic, gauge invariance of, 25:25509
probability calculus and logic for systems in, 24:45383
probability densities of, linear partial differential equation for time-dependent, 23:49024
probability density and probability current in, determination of quantum state by, (E), 22:15653
probability of weighted paths in, 24:15434
probability theory in, generalized fluctuation—dissipation theorem for, 21:13392
projection operators for arbitrary-spin particles, 23: 14994 (CALT-68-179)
proof of von Neumann's theorem concerning the uniqueness of the Schroedinger operators, (T), 21: 37628
properties of 2-matrix due to integer character of occupation numbers, 22:3224 (UCD-CNL-83)
properties of anharmonic oscillator at high energies, approximation for, 23:16904
properties of real RPA matrices and a simple diagonalization procedure, 25:20525
properties of three-dimensional harmonic oscillator wave functions, (T), 24:24612
propositions in, interpretation of, 25:43514
quantization conditions for particles with magnetic and electric charge, 24:15440
quantization rule in, new WKB-like, (T), 25:38621
quantum states as ensembles of dispersion-free states, 25:38603
quantum statistics, 24:47345
quartic oscillator in, upper and lower bounds for eigenvalues of, 23:18755
quasi-particle formalism in, 23:21020
radial distribution function in, linear differential equation for, 25:22656
radial distribution functions, necessary conditions on, (T), 21:33578
radiation fields in, conservation of coherent state distribution for, (T), 23:21023
radiation interactions with matter, model for, 23: 36804(R) (AD-686820)
radiation operators for, approximation corrections for electric multipole, 24:35220
radiation properties in, (T), 23:12997
radiation scattering in, (T), 23:44574
radiation theory in, quantum interference in, 23:18956 (AD-672986)
radiation theory in, semiclassical, 23:42719
radiative transfer functions for spectral line regimes, 24: 46901
random-phase approximation in, relation between generator-coordinate method and, 25:18035
relation of flux quantization to charge quantization and fine structure constant in, (T), 23:18757
relation to Lobachevsky geometry of space, 23:3618 (ITEF-613)
relation to relativity theory, 24:20027
relation to theory of elementary length, 23:21027
relativistic Bohr formula in, (T), 25:33479
relativistic concept of electron, (T), 21:44212
relativistic electron in, 21:46447
relativistic electrons in, covariant position operator for, 24:15427
relativistic electrons in, proper time and localization for, 24:15426
relativistic generalization of modified augmented-plane-wave method, 24:20014
relativistic invariance in, lectures on, 22:48353
relativistic quasi-potential equation with local interaction in, 23:18752 (JINR-P2-4107)
relativistic Schroedinger equation for particles with arbitrary spin, (E), 24:10648 (IFA-FT-75)
relativity theory in, validity of special, 22:44498
relaxation of longitudinal magnetization of the X—Y model, 25:38615
renormalization theory for relativistic, 24:33041
representation in quantum optics, (T), 21:44217
representation of quantum states by Gibbsian ensembles, 25:30701
representations in phase space, (T), 25:59234
research at Pittsburgh Univ., Dec. 1969 to Dec. 1970, 25:9839(R) (NYO-3829-64)
research in Italy, review of, 21:5385
research on statistical, at Washington Univ., Sept. 1970 to Sept. 1971, (T), 25:41255(R) (RLO-1388-611)
research on, in Japan, index of papers in Busseiron—Kenkyu (1943 to 1962) on, 21:12385 (UCRL-14288)
research progress in, 23:16903(R) (NP-17744)
research progress on, 23:17103(R) (ANL-7481)
resolution of Einstein—Podolsky—Rosen paradox in, 22: 41702
restrictions on partial-wave amplitudes from Grobov—Froissart formula, 25:27930 (ITF-70-101-E)
review of quantum theory, 22:32036
review of, in atomic physics, 23:39345
review on status of, 24:40450
rotation of many-electron-system in, observability of sign change of spinors under 2π, 21:37643
rotation operators in, exact form of, (T), 23:46586
rotation pictures in, behavior of operators and state vectors in, 25:30990
rotator problem in, nonrigid, (T), 23:25475 (FEI-139)
rotator with quadratic deformation in, dynamical group for rigid, 25:1350
S functions in, application to continuous groups, 24: 28454
S-matrix elements in, representation by Bogolubov distributions of causal, 21:34024 (JINR-P5-3180)
S-matrix interpretation of, 25:25533
scattering amplitude in nonrelativistic, analyticity properties of n-body, 23:17011
scattering amplitudes in nonrelativistic, eikonal expansion for high-energy, 23:46832
scattering amplitudes in three-body problem in, equations for, 21:37625 (JINR-P2-3371)
scattering by even-power potentials in, (T), 23:36809
scattering by randomly fluctuating bounded regions, (T), 25:38609
scattering by singular potential in, WKB approximation for, 25:33505
scattering cross sections in relativistic, 25:33814
scattering in, charged-particle Levinson theorem for, 23: 14936
scattering in, Martin's method for theory of potential, 25:3240
scattering in, theory for three-body, 21:11822
scattering in, time operators for, 23:12998
scattering problem in, solution of nonrelativistic, (T), 21: 16792
scattering problem in, three-body, 22:38805
scattering problems in, numerical resolution of systems of integro—differential equations in, 22:46298
scattering theory in relativistic, probabilistic interpretation of, 23:23565
scattering theory in, bounds on cross sections for, 22: 38804
scattering theory in, eikonal approximation and impact parameter in, 22:38811
scattering theory in, from real multipoles, 23:46580
Schrodinger equation for, WKB method for strong Coulomb field, (T), 25:40849
Schroedinger difference equation in, finite-difference calculation for relativistic, 23:18768
Schroedinger equation and nonlinear nonlocal scattering in, 21:29389 (NP-16735)
Schroedinger equation derivation from Markoff theory, 21:27270
Schroedinger equation for bound states in, amplitude-phase solutions to, 24:37943
Schroedinger equation for bound states, numerical solution of, 23:1574
Schroedinger equation for diatomic systems, separation of rotational coordinates from N-electron, 23:3294
Schroedinger equation for elementary particle symmetry in, mixing of states in strong-coupling solution to, 24: 26462
Schroedinger equation for even-parity partial-wave amplitudes with potential from baryon exchange contribution to $\pi + N$ interaction in relativistic, solution of multichannel, (T), 24:40449 (DESY-70/21)
Schroedinger equation for fermion states, equivalence of generator-coordinate method and quasi-boson approximation for, (T), 23:1939
Schroedinger equation for Hamiltonian with exchanges, (T), 22:29608
Schroedinger equation for mixed local and separable nucleon-nucleon potentials, method for solving, (T), 22:39703
Schroedinger equation for neutron multiple scattering in slab, solution of, 23:19122 (RT/FI-(68)40)
Schroedinger equation for nonrelativistic three-body bound-state problem, new coordinates for solution of, 23:27725
Schroedinger equation for potential scattering, analytic continuation in complex angular momentum plane for regular solution of, 25:53391
Schroedinger equation for simplest systems in, closed analytical representations of Green functions of, 25: 30712
Schroedinger equation for spherical wells in, computer program for solving, 23:7438 (NYO-3661-17)
Schroedinger equation for three-electron atoms in, Euler-angle reduction for, 22:41320
Schroedinger equation for two-state system in, integration with respect to time of, 25:14495
Schroedinger equation for, new method for solution of, 24:30420
Schroedinger equation for, numerical solution of one-dimensional, 21:42222
Schroedinger equation for, variational principle for one-particle, 21:9682
Schroedinger equation in absence of field, sources and sinks in, 23:25480
Schroedinger equation in nonrelativistic, space-time invarance and causality for derivation and interpretation of, 24:3711
Schroedinger equation in Riemannian manifold, derivation of, 22:52901
Schroedinger equation in, approximate methods for solving, 25:59205 (JINR-E2-6043)
Schroedinger equation in, bounded energy spectrum and eigenfunctions in, 22:3232
Schroedinger equation in, Coulomb Green function for bound states of nonrelativistic, 25:43675
Schroedinger equation in, derivation of generalized, 22: 13617
Schroedinger equation in, direct numerical solution to time-dependent, 25:52664
Schroedinger equation in, discrete least squares solution for, (T), 23:25478
Schroedinger equation in, eigenfunction expansion connected with exterior problems for, (T), 23:22917
Schroedinger equation in, exponential approximation for time-dependent, 22:7139
Schroedinger equation in, higher-order approximations in WKB method for, 24:1680
Schroedinger equation in, investigation of many-state collision problem using coupled radial, 23:18771
Schroedinger equation in, lower bounds to eigenvalues of, 22:5056
Schroedinger equation in, method for reduction to one-dimensional integral equation, 25:56398
Schroedinger equation in, Monte Carlo solution of, 25: 36375
Schroedinger equation in, nonrelativistic transformations of coordinates and transition from Klein—Gordon equation to nonrelativistic, 23:36856 (JINR-P2-4462)
Schroedinger equation in, numerical solution of S-limit, 22:24498
Schroedinger equation in, numerical solution of two-electron, 24:37277
Schroedinger equation in, particle method for numerical solution of time-dependent, 25:27932

Schroedinger equation in, phase method for eigenvalue calculations for, 21:29410
Schroedinger equation in, potentials for, 21:3953
Schroedinger equation in, quasi-classical asymptotics of point source function for stationary, 24:30425
Schroedinger equation in, relation between solitons and bound states of time-independent, 22:22259
Schroedinger equation in, second-approximation WKB solution to one-dimensional, 23:13009
Schroedinger equation in, solitons and eigenvalues of, 22:39228
Schroedinger equation in, solution of coupled differential equations from, 25:14497
Schroedinger equation in, solutions for time-dependent interactions, 25:59207 (NP-19033)
Schroedinger equation in, solutions of, 22:7408
Schroedinger equation in, stochastic electrodynamics for, 25:41054
Schroedinger equation in, theorem for invariance principle for generalized wave operators for, 25:52978
Schroedinger equation in, wave function expansion in terms of spherical Bessel functions for solution of, 25:41056
Schroedinger equation in, WKB approximation and integral formulation of, (T), 25:38623
Schroedinger equation solution by Laplace transform method, time-dependent, 25:14496
Schroedinger equation solutions for helium and helium-type atoms in, 23:14925
Schroedinger equation solutions using Monte Carlo methods, (T), 23:23309
Schroedinger equation wih anisotropic Saxon—Woods potential, Sturm—Liouville solutions of, 25:7498 (JINR-P4-5351)
Schroedinger equation with damping for system weakly coupled to thermal bath, 25:9607
Schroedinger equation with nonlocal potential in, numerical solution of, (T), 24:30421
Schroedinger equation with nonlocal potential, (T), 23:21016
Schroedinger equation with nonlocal potential, solution of, 24:20030
Schroedinger equation with random potential, 25:30710
Schroedinger equation with Saxon-Bud potential, solution of, 21:25572
Schroedinger equation with short-range central potential, SO(2,1) algebraic solution of, 25:14491
Schroedinger equation with two transition points, uniform asymptotic expansions for, 24:21903
Schroedinger equation, approximate analytic solutions, 23:13010
Schroedinger equation, reduction of potential of, according to scattering data, 25:9610
Schroedinger equations considering size effects in simple samples, 24:45390
Schroedinger equations for arbitrary-spin particles in, quantization of relativistic, 21:25342
Schroedinger equations for, computer program for numerical solution of N coupled one-dimensional reduced, 22:39697 (UCRL-50430)
Schroedinger equations for, irregular solution of system of, 25:7515
Schroedinger equations for, resolution of system of coupled, 23:36813
Schroedinger equations in, electromagnetic structure of, 24:40220
Schroedinger Hamiltonian for one-body problem in, class of analytic perturbations for, 25:27926 (CNRS-CPT-70-P-352)
Schroedinger integro-differential equation for spherically symmetric nonlocal potential, 24:30413(T) (LA-4214-TR)
Schroedinger operator in, expansion in eigenfunctions of non-self-adjoint, 24:45382
Schroedinger operator with hard-core potential in, perturbation of eigenvalues of two-particle, 25:19882
Schroedinger particle in a gravitational well, (T), 25:43517
Schroedinger representations for angular momentum problem in, generalized, 24:24204
Schroedinger solutions for nuclear Coulomb potential in lambda plane, 25:17330
Schroedinger solutions in, perturbation method for, 25:3229
Schroedinger theory for Nambu—Takabayasi equation and transition form factors, 24:47350
Schroedinger wave equation for, mechanical analogs for solving time-independent, 24:45397
Schroedinger wave functions for systems of identical spinless particles, symmetrization postulate for, 22:5479
Schroedinger wave functions nodal structure and its physical significance, 24:32948
Schroedinger—Pauli equation of spinning electron, derivation of, 21:3962
Schroedinger's equation in, phase-space transition for generalization of, 23:13005
Schwinger functional in, existence theory for, 25:7524
Schwinger functions and classical limit of equilibrium statistical, 21:5344
screening constants for relativistic wave functions, 21:5342
selection rules in, hypothesis of commutative super-, 22:34868 (JINR-E2-3799)
selection rules in, physically nonrenormalized vectors in exact definition of super-, 23:36865
self-consistent nuclear single-particle Hamiltonian, 24:38384
seniority-1 states of the $L = 0$ charge- and spin-independent pairing Hamiltonian, 23:42997
separable potentials using resonant states, 24:15968
separation co-ordinates and dynamical symmetries, 24:20028
single-particle model calculations with potentials of various shapes, 25:25833
Slater integrals for wave functions of the harmonic oscillator, 24:28849
solution of two-electron problem in, application to ground state of hydrogen molecule, 21:23000
solutions for dyons, relativistic, 25:12047 (NYO-3829-65)
solutions of time-dependent Schroedinger equation, wave packet, 24:5222 (IS-1795)
space—temperature correlations in statistical, (T), 21:35235 (NYO-1480-74)
space—time code in, relativistic, 24:3728
space—time quantization analogy with point particle in, contact transformation for, 25:30708
spacing distribution for ensemble of random matrices with nonrandom bias, nearest-neighbor, 22:46851
spectral concentration of helium Schroedinger operator, 25:7186
spectral decomposition principle in, 24:32942
spectral densities in statistic problems, equations for, 22:48199
spectral representations for simple systems, (T), 21:42230
spectral theory for the Klein—Gordon equation with an external electrostatic potential, 25:12679
spectrum of many-particle Schroedinger operator with combined Zeeman and Stark effect, 22:46305
spin algebra from generators of Poincare group, generalized, 23:13305(R) (COO-1573-48)
spin density matrix for particles in, measurability of, 23:3661
spin density matrix in, parametrization of, 23:18988
spin in, path integrals and product integrals for, 25:33480
spin operator from Dirac equation in, covariant generalization of, 23:27857
spin orbitals and generalized overlap amplitudes in, 24:30416
spin projection coefficients for systems of spin-$^{1}/_{2}$ particles, 21:1119 (AD-628823)
spin systems in, statistical mechanics of, 22:52902
spin wave theory for quantum fluids, 23:44417(T) (AEC-tr-7063)
spin—orbit interaction in nonrelativistic, derivation of, 21:18852
spin-1/2 particle measurements in, hidden variables in, 24:45396
spin-particle theories in classical and, 22:18014
spin-statistics theorem, nonrelativistic proof of, (T), 24:37591
spin-tensor operators in, relation of Wigner little-group generators to relativistic limit of, 24:3749
spinning-top problem in, 25:27927 (FEI-203)
spinor equations in, selection of nonlinear, 21:5347
spinor rotations in, sign change under 2π, 22:37068
statistical basis for formulation of, 24:45380
statistical density matrix for attractive Coulomb forces, path-integral calculation of two-particle, 23:12776
statistical distribution functions of hard-sphere system, 21:17012
statistical interpretation of, 25:7514
statistical interpretation of, development by means of joint coordinate-momentum representation, 22:15646 (JINR-E4-3687)
statistical mechanics of irreversible processes, (T), 22:7403 (ITF-66-7)
statistical, double dispersion relations in, 23:46571
statistical, generalized operators in, 25:12263
statistical, locally normal states in, (T), 23:25479
statistical, of degenerate gases, cluster expansion technique in, 23:46570
statistical, of infinite systems, (T), 24:49287
statistical, of systems with infinite degrees of freedom, 24:1493
statistics in field theory and, relation between formulations of generalized, 22:44492
stochastic equations and, Lagrangian form of, 23:42520
stochastic processes for description of interactions of systems of elementary charges, 24:15436
stochastic processes in, 24:20045
stochastic theories of, 23:5508
stochastic theory formalism in, 24:3482
stochastic theory of, for particles with spin, 24:30418
stochastic theory of, in relativistic form, 25:1345
stochastic theory of, self-interaction corrections in nonrelativistic, 25:27941
stochastic, aspects of, (T), 25:1346
stochastic, for two-particle system, 24:8547
structure of relativistic quantum systems, global and local, 25:27931 (JINR-E2-5575)
sudden approximation in, properties of, 24:20033
sum rule for relation of nuclear binding energy to energies of excited states, density-matrix formulation of, 23:23786
sum rules for, upper and lower bounds of, 23:12999
sum rules in, 22:3226
sum rules in, 22:17833
sum rules in nonrelativistic, method of, (T), 25:48119
sum rules in, and application, 25:12046 (NP-18619)
sum rules, alternative expressions for testing wave functions, 23:49021
sum-rule functions, (T), 25:47691
summation in, use of inhomogeneous Schroedinger equation for closed-form implicit, 24:30417
superselection rules in, (T), 24:21907
superselection rules in, algebraic theory of, 24:51871
superselection rules in, continuous, 23:18760
superselection rules in, relation with internal symmetries for, 25:14774 (KFKI-70-22-HEP)
superselection rules in, violation of, 24:20022
symmetries of oscillator systems, 22:44289
symmetry for, SU(2), 22:1461
symmetry group for relativistic, for elementary particles, 24:37828
symmetry group G_1 for relativistic, dynamic, 24:40433
symmetry groups in, dynamic, 22:9630
symmetry in, existence and survival of space-time, 21:15373
symmetry origin of dynamics, (T), 22:7409
symmetry transformations in statistical, from local currents in Lagrangian field theory, 24:1643
tables of bound- and free-electron wave functions, 21:35498 (BNL-50002)
tables of Clebsch—Gordan coefficients and spherical harmonics, 22:42102 (UCID-2823)
teaching of, methods for, 25:48396 (ORO-3992-55)
temperature bounds of quantum lattice gases, critical, 24:6672
temperature dependence near phase transitions in canonical statistics, (T), 22:1372
temporal evolution and approach to equilibrium of quantum particle in suddenly expanded box, 24:47339
temporal evolution and approach to equilibrium of system of noninteracting quantum particles, 24:47340
theorem for double perturbations in, 25:13981
theorem for system with infinite freedom, 25:40843
theorem for W^*-algebras with dispersion-free normal states, 22:29597
theorem in, generalized hidden variables, 25:40850
theory as broken symmetry, 23:5501
theory for elementary particles, 22:3304
theory for hidden-variable, experimental test of, 21:21130
theory for, Moessbauer technique for elementary length in, 22:20156 (INP-555/PH, pp 93-8)
theory for, review of, 22:46297
theory for, review of Segal algebraic approach to, 22:20310 (INP-555/PH, pp 183-212)
theory for, stationary and nonstationary quantum problems soluble by contour integral technique in, 22:11743
theory of, 22:29609
theory of conditional invariance in, 22:41704
theory of double solution of H and M^2 operators in, 21:3951
theory of electric and magnetic charges, 24:20012
theory of five-dimensional, for field interactions, 22:1490
theory of generalized density operators associated with system of n particles, 21:5338
theory of gravitation, supplementary conditions in, 22:46522
theory of infrared absorption by excitons, 21:2300
theory of matter in, (T), 22:41715
theory of measurement of incompatible observables in, 21:31499
theory of multi-configuration self-consistent fields with non-orthogonal orbitals in, (T), 22:41713
theory of multiparticle systems in, 24:8549
theory of multiparticle systems in, mathematical, 23:5698
theory of small Josephson junction, 21:37391
theory of thermal neutron multiple scattering, 21:17261 (IN-1045)
theory of, Everett—Wheeler interpretation of, 24:32947
theory of, relation between elementary length and, 22:52900
theory of, review of, 21:46434(T) (N-67-23082)
thermal content of quantum states, 23:30673
Thomas—Fermi method in perturbation theory, exact, 21:31504
three-body bound-state problem in, general approach to, 21:33562
three-body interaction according to Coulomb law in, 21:7379 (JINR-P4-3011)
three-body interaction according to Coulomb law in, 21:33643
three-body problem in, 22:34820
three-body problem in, (T), 22:3221 (ORNL-TM-2008)
three-body problem in, case of potentials with hard cores in, 25:33512
three-body problem in, case of two neutrons and heavy nucleus in, 25:33511
three-body problem in, coupled partial differential equations for radial wave functions, (T), 21:46818
three-body problem in, different noncharged spinless particles in, 25:30709
three-body problem in, exactly soluble, (T), 25:43509
three-body problem in, Faddeev's equations for local potentials, 23:8704
three-body problem in, new approach to, 24:28848
three-body problem in, orthogonal angular functions for, 24:15433
three-body problem in, solution of Faddeev's equations with local potentials for, 22:22621 (SLAC-79)
three-body problem in, two-particle disintegration in, (T), 21:17389 (JINR-P4-3154)
three-body problem in, use of Sturm—Liouville functions for solving, 21:854 (JINR-P-2825)
three-body problem with Gaussian potential in, iterative solution of, 24:38385
three-body problems in, solution of, 22:39224
three-particle systems in, analysis of, 21:42219
time correlation between emission and absorption of exchanged photon, 22:44282
time correlation functions in, calculation using Wigner's representation, 25:17327
time correlation functions in, corrections for, 22:29242
time correlations in, survey of methods for describing, 23:18777
time duration in stationary, (T), 23:23304 (JINR-P2-4262)
time evolution of system with stochastic Hamiltonian and given initial state, (T), 23:23311
time operator in, (T), 22:9496
time symmetry in, statistical, 21:41741
time—energy indeterminancy relationship in, 25:33495
time-reversal violation effects on energy-level spacings, (T), 22:5615
total number of particles and Fock representation, 21:33550 (NP-16843)
transformation coefficients in the hyperspherical approach to the three-body problem, 25:3729
transformation theory in, superoperator, 25:14505
transformations applied to Dirac equation, nonrelativistic, (T), 25:9599 (JINR-P2-5314)

transition and time-dependent perturbation theory, 21:29393
transition density functions for configuration-interaction wave functions, analysis of two-body, 23:23306
transition density operators for n-particle wave functions in, 21:9684
transition in, concept of, 25:43525
transitions between seniority-4 and seniority-2 states compared to 2-phonon-1-phonon transitions, 22:35381
transmission and tunneling through real potential barrier, phase-integral approximations for, (T), 24:52722
transmission and tunneling through system of two real potential barriers, higher-order phase-integral approximations for, 24:52723
transport coefficients for degenerate gases in, density expansion of, 21:17013
treatment of symmetry properties in perturbation theory, 23:18759
tunnel effects in, properties of, 23:10727 (JINR-E4-4111)
two-body harmonic oscillator potentials in, separability of Hamiltonian for, 23:32955 (NYO-3829-31)
two-body systems in, description of rotational states of, (T), 24:32949
two-center problem in, 21:40122 (JINR-P4-3405)
two-center problem in, eigenvalues and wave functions of, (T), 21:7378 (JINR-P2-3012)
two-center problem in, term tables for, 21:18841 (JINR-P4-3175)
two-center problem in, term tables for, (T), 22:1369(T) (SC-T-67-0953)
two-center problem of, 21:7377 (JINR-P2-3009)
two-center problem of, numerical calculations for, (T), 22:1368(T) (SC-T-67-0952)
uncertainty principle according to hydrodynamic model of, formulation of, 24:47351
uncertainty principle and statistical interpretation of, 25:17350
uncertainty principle and uncertainty relations in, 24:45381
uncertainty principle in, least-squares analysis of, 25:27944
uncertainty principle in, momentum measurement from Compton effect for test of, 24:47338
uncertainty principle in, thought experiment violation of, 25:14502
uncertainty principle, analysis of, 21:21116
uncertainty relations in, 24:21901
uncertainty relations in, (T), 21:21106
unitary representation up to factor of Galilei group in Hilbert space, continuous irreducible, (T), 25:59217
upper and lower bounds in second-order Schroedinger perturbation theory, (T), 23:18756
upper bound on the error in approximate eigenfunctions of the Hamiltonian operator, 25:25834
use for representation for phase of harmonic oscillator, 23:36810
use for statistics of charged Bose gas in ground state, (T), 24:3056
use for treatment of fluctuations of optical parametric oscillator, 22:17840
use for treatment of fluctuations of optical parameter oscillator, 22:17842
use in cognition of microcosmos, 25:27929 (ITF-70-62-E)
use in defense of measurement theory, 25:17333
use in description of Brownian particle, (T), 22:41710
use in determination of energy of charged particle subjected to gravitational and electromagnetic actions, 23:46590
use in solution of problem of 4 point masses without spin, 23:51819
use in structure and dynamics, review on, 23:44576
use in theoretical chemistry, 21:5062 (N-66-29707)
use to determine electron state in uv-induced dimerization of pyrimidine bases, 21:30777
vacuum expectation values of exponential operators in, 25:9847
validity of, experimental tests of, 22:26543
variables in, algebra of observables for hidden, 21:21289
variation perturbation method for excited states of stationary systems, (T), 21:33554
variational calculations in, lower bound in, (T), 22:17839
variational calculations with density matrices, 22:3225 (UCD-CNL-84)
variational methods for calculating scattering amplitudes and phase shifts, 21:34021(R) (AD-637700)
variational principle for Landau equation, 22:44293
variational principle for the Schroedinger equation, (T), 21:37637
variational principles for expectation values of physical quantities in, 22:20102
variational procedure with orthogonalization pseudo-Hamiltonians, 24:20025
variational solution of Schroedinger equation for finite fermion systems, 25:3241
variational solution of Schroedinger equation for finite fermion systems, 25:3242
vector states on algebras of observables in, Hilbert space and superselection rules for, 24:47353
vectorial methods for problems in, 24:20031
velocity-dependent potentials in the Heisenberg picture, 23:42991
wave and particle coexistence in relativistic, 25:43691
wave equation for massive particles of arbitrary spin, (T), 21:18854
wave equation for particles with spin in, 2[2j + 1]-component, 23:16953
wave equation in, computer program for solution of Schroedinger, 23:49478
wave equation solutions using perturbation expansions, 25:12054
wave equation with multiple representations for spin-1 bosons in, relativistic, 25:17557
wave equations approximating precise solutions for nonlinear electrodynamics and optics, 24:21827(T) (AEC-tr-7135)
wave equations for electrons in Coulomb field, Farri—Sommerfeld—Maue approximation for, 21:9676
wave equations for elementary particles in, general first and second order partial differential relativistic, 23:8764
wave equations for higher spin, relativistic, 23:12996
wave equations for massive particles, five-dimensional approach for relativistic, 23:8840
wave equations for particles of arbitrary spin, review of, 23:16941
wave equations for, search for fundamental, 23:18775
wave equations in relativistic, Lorentz invariance for arbitrary-spin, 25:41061
wave equations in, bound-state solutions of Schroedinger, 21:19073
wave equations in, computer program for calculation of Coulomb functions for complex energies in, 23:49469
wave equations in, exact solutions of class of nonlinear, 22:48198(T) (MATT-Trans-65)
wave equations in, formulation of higher-spin, 22:18012
wave equations in, integral transformations connected with Klein—Gordan, 22:24575
wave equations in, interpretation of relativistic, 22:46508
wave equations in, Lie group theory for general mass formula for, 22:22423
wave equations in, physical interpretation of spacelike and ghostlike solutions of infinite-multiplet, 24:30424
wave equations in, quantization of first- or second-order partial differential relativistic, 23:15194 (COO-264-464)
wave equations in, relativistic, 21:29392
wave equations in, relativistic two-particle, 23:15229
wave equations in, two-component spherical factorization of Klein—Gordon and Kramers, 25:56559
wave equations on hyperplane, 22:44480
wave equations with multiple Lorentz group representations for fermions, matrix structure of, 25:17556
wave fields in, projection operators for, 22:13748
wave function and matrix elements in the K-harmonics method, 24:11059
wave function construction for periodic electron collisions with nuclei, 23:27732
wave function for hidden-variable theories, 23:36812
wave function for unstable system in, 24:28500
wave function in relativistic, classical two-component spinor field as, 25:17562
wave function in, closure property for many-body, 22:34819
wave function in, lower bounds of error for trial, (T), 23:49020
wave function of many-particle system in, projection operators for, 21:37947
wave function reconstruction from matrix elements, 25:37252 (UCRL-20667)
wave function renormalization in, integral for, 21:11806
wave functions and relativistic equations for spin-one elementary systems, transformation properties of, 23:7170
wave functions for identical particles in, symmetrization of, 25:45613 (JINR-P2-5809)
wave functions for two-particle systems, (T), 21:23559
wave functions in, analytic continuability of, 21:21108
wave functions in, calculation of Franck—Condon factors with Poschl—Teller, 23:1201
wave functions in, calculation of states from Klein—Gordon, 23:3625
wave functions in, cluster property and symmetrization postulate for, 23:36816
wave functions in, correlation coefficients for electronic, 22:38761
wave functions in, gravitation and Heisenberg uncertainty relations for reduction of, 23:52005
wave functions in, N-representability of p-density matrices in, 23:30674
wave functions in, perturbational-variational approach to variational, 22:3234
wave functions in, Poincare group elements for, 25:17553 (JINR-P2-5513)
wave functions in, Talmi coefficients for two-particle harmonic oscillator, (T), 21:23554
wave functions in, upper bounds to overlap between approximate and exact, 24:45388
wave functions satisfying Dirac and Kemmer equations in, consistency conditions for, 21:44442
wave mechanics in classical phase space, 21:3943
wave operators for single-channel systems, 25:31019
wave operators in, invariance principle for generalized, 25:52978
wave packets in, equivalence classes of minimum uncertainty, 24:37598
wave propagation in random media, (T), 21:37070
wave propagation in random medium, 21:11725
wave scattering by method of, long ocean, (T), 23:17298 (BNWL-913)
wave-functions in, unoccupied natural orbitals of two-electron, 22:34812
wave-packet elastic scattering in relativistic, causality violation in, 24:28628
Weyl transform in nonrelativistic, (T), 22:41708
Wigner coefficients for moment of momentum in, 22:9634
Wigner quantum density function in classical limit, 24:3479
Wigner representation for system with rotational degrees of freedom, 24:42856
Wigner representation of system with rotational degrees of freedom, 24:42857
WKB approximation for phase shifts in, modified, 25:5238
WKB approximation in, application to radial problems, 22:5473
WKB approximation in, higher corrections to, 23:14926
WKB expansions in, method for constructing absolutely convergent modified, 25:30699 (ITF-70-84-P)
WKB method in classical approach to, 25:12063
zero-frequency pole in Green's functions, 21:31503
zero-point energy for long-range electromagnetic forces, 24:24205

Quantum Physics
see Nuclear Physics

Quark Model
see Elementary Particle Models (Triplet)

QUARTZ
see also Sands
see also Silicon Oxides
age of, thermoluminescence ESR method for estimation of, 24:27230
analysis for aluminum by activation methods, 22:12257
analysis for aluminum, germanium, and sodium by neutron activation and γ spectrometry, 25:44348
analysis for gold by γ activation, 23:47412
analysis for impurities by neutron activation, 23:9313
analysis for impurities by neutron activation, 23:35025 (NBS-TN-458)
analysis for impurities by neutron activation methods, 21:35901
analysis for impurities by neutron activation techniques, 23:15823
analysis for iron by γ and x scattering and transmission, 22:12247
analysis of plates of, for impurities by neutron activation and γ spectroscopy, 23:47410
analysis of standard, for bismuth, cadmium, mercury, and thallium by neutron activation and radiochemical separation, 25:54454
analysis of, for gold in Altai and Transbaikal by activation methods, 21:1283
analysis of, for oxygen by 14-MeV-neutron activation, 21:12353
coating with silicon carbide using radiant heating, 22:7043
compatibility of, with boron carbide, coating for improvement of, 21:13232
compression of porous, by strong shock waves, 25:39395(T) (SC-T-713032)
condensation of particles of, in M-star atmospheres, (T), 22:52413
content in lake sediments, use of x-ray diffraction spectroscopy for estimation of, 22:170 (ORNL-IIC-10(Vol.2), pp 613-28)
crystal structure of, positron annihilation study of electronic lattice, 23:48999
crystallization in hydrothermal stage of pegmatite process, 22:7981(T) (WAPD-Trans-80)
defects in alpha-, dielectric and anelastic relaxation of point, 22:21718(R) (CU-3712-05)
determination in silicates by volatilization with hydrofluoric acid, 22:21029 (SC-M-67-3044)
deuteron channeling at 900 keV in, (E), 23:23247
dielectric properties of, at high temperatures, 21:24834 (NP-16700)
diffusion of tritium in monocrystalline, following bombardment, 21:34313
distribution in marine sediments off west coast of Puerto Rico, 22:43311(R) (PRNC-85)
effects of impurities in, on cleanliness of annealed surfaces of semiconductors, 21:35901
effects of incorporated powdered, on mechanical properties of Fiberglas plastics, 22:11099 (AERE-R-5504)
effects of, on fission-fragment-induced emission spectra of argon, helium, and nitrogen, 21:5924
effects on carbon deposition from carbon monoxide—hydrogen mixture onto solid surfaces, catalytic, 24:19447
electron mobility in, during isochoric heating by radiative deposition, 25:45539 (UCRL-51048)
erosive effects of air-driven fine particles of, on hard alloy surfaces, 25:32770
evaporation and deposition of thin films of, performance of 6-kW electron beam gun for, 25:24571
fabrication and performance of layered thermal insulation of, incorporating aluminum foil, 24:22875(R) (GA-8928(Pt.2))
fission fragment tracks from far transuranium elements in, search for spontaneous, (E), 25:53744 (JINR-P7-5814)
fluid inclusions in, sodium and manganese content in, 21:12523
formation in uranium ores, origin of, 24:11708
gamma radiation scattering by, 21:16811
helium-ion channeling in, energy loss in, 21:39797 (SC-DC-67-2012)
hydrogen isotopic ratios in, 22:27913
hydrogen-ion channeling in, energy loss in, 21:39797 (SC-DC-67-2012)
hydrothermal fluids in Mexican, deuterium content of water in, 21:12524
infrared transmission through thin fused, bubble window for, 21:2228 (TID-23318, pp 93-121)
ion reactions with, particle tracks due to argon and neon, (E), 25:45166
meson (μ^+) polarization in single-crystal, as function of magnetic field, (E), 24:35175
microprobe analysis of powdered, darkened by simulated solar-wind irradiation, 21:28869
microstructure of, prepared using rubidium hydroxide solvent, 25:2727 (ORNL-4570, pp 1-4)
muonium content in, search for, 21:43788
neutron beam diffraction by vibrating single-crystal rods of, time modulation in, (E), 23:18738
neutron diffraction by (11.0) plane of vibrating crystal of, 22:48434
neutron diffraction by crystals of, vibrating at 40 kc, 21:23262
neutron diffraction by single crystal of, time modulation of, (E), 23:28216
neutron diffraction studies of monocrystals of, 24:31725
neutron transmission in, for low-pass velocity filters, 23:9802
niobium oxide thin film deposition on, dielectric and optical properties of, 23:14400

optical second-harmonic generation in, search for magnetic-field-induced, 21:35216 (COO-1112-116)
oxygen isotope ratios in, 21:22056
oxygen isotopic ratios in, 22:27913
performance of nickel-opacified thermal insulation of, at 1800°F and 1000 to 6000 hr exposure, 23:43455(R) (ALO-3632-41)
performance of transducers of, effects of nonuniform pressure on, 21:38851 (UCID-15177)
positron annihilation in crystalline and fused, fast-neutron irradiation effects on, (E/T), 24:39842
positron annihilation in, (E), 22:26207
positron annihilation in, angular correlation of gammas from, (E), 24:37177(R) (NYO-2962-8)
positron annihilation in, correlation between intensity and lifetime of slow component in, 21:43774
positronium annihilation in magnetic field in, two-quanta angular correlation of photons from, 25:33073
properties as absorber for pulsed-electron-beam calorimetry using stress-wave measurements, 21:33123 (SC-DC-67-1791)
properties of hydrothermally grown crystals of, 23:8271 (ORNL-4370, pp 1-4)
proton channeling at 415 keV in single-crystal, (E), 22:34753
proton energy losses in, at 20 MeV, (E), 21:46712
proton reactions at 10 to 30 MeV, range functions and excitation potentials in, 23:8465
radiation attenuation in fused, 14.4-keV gamma and 6.3-keV x, 21:39210
radiation damage in, bibliography on, 21:7853 (AD-635088)
radiation effects in germanium- and aluminum-doped, gamma, (E), 22:24414(T) (AD-663345)
radiation effects in, transient, (E), 22:24411 (LA-DC-8636)
radiation effects on absorption spectra of iron-doped synthetic, combined effects of heat and x, 24:12489
radiation effects on carbonaceous impurities in ampoules of, analysis of γ, 23:11248 (BNWL-919, pp 4.1-4)
radiation effects on color of, effects of aluminum impurities on γ, 22:27802
radiation effects on crystal structure of, review on, 21:32936(T) (SC-T-67-0934)
radiation effects on crystalline, γ and neutron, 23:44532
radiation effects on crystals of, neon- and argon-ion, 25:793
radiation effects on dielectric characteristics of, gamma, (E), 21:21074
radiation effects on dielectric constant and ESR spectra of, neutron, 23:46547
radiation effects on dielectric permittivity of plates of, 23:14903
radiation effects on diffusion of hydrogen in, at room temperature, neutron, 22:33449
radiation effects on elastic properties of, fast neutron, (E), 21:42162
radiation effects on electric conductivity of, electron and x, 22:12721
radiation effects on EPR spectra of, at 293°K, gamma and neutron, 24:6293
radiation effects on EPR spectra of, at 77 and 293°K, x, 24:6293
radiation effects on flotation behavior of, beta, 22:42796
radiation effects on frequency vs temperature characteristics of crystals of synthetic, gamma and neutron, 25:57906
radiation effects on magnetic susceptibility and density of alpha-, fast-neutron, 25:38551
radiation effects on melted, 21:28001
radiation effects on microplasticity of glass-type, α, 21:31115
radiation effects on nir and "A" bands in, 2-MeV-electron, (E), 23:39554
radiation effects on optical properties of fused, electron, (E), 22:13571
radiation effects on optical properties of, fast-neutron, 21:11325
radiation effects on optical rotation of alpha-, fast neutron, 24:23544
radiation effects on oscillation frequency of crystals of calculations for neutron, 23:4866
radiation effects on oscillation frequency of piezoelectric, γ, 21:25885
radiation effects on oscillator crystals of, electron, 25:21508
radiation effects on oscillator crystals of, electron and bremsstrahlung, 21:6382
radiation effects on physicochemical properties of glasses of, γ and neutron, 22:12348
radiation effects on production of diffused color centers in, γ and x, 24:38950
radiation effects on Raman spectrum of alpha-, fast-neutron, 24:47312
radiation effects on resonance frequency of different sections of plates of, electron, gamma, and x, (E), 22:41695
radiation effects on smoky, ESR spectral studies of trapped-hole center from x-, 25:49983
radiation effects on solubility of dusts of, 22:12356
radiation effects on structure of, comparison with temperature effects, neutron, (E), 21:18813
radiation effects on thermoluminescence of, gamma, (E/T), 22:17746
radiation effects on ultrasonic attenuation in, relation of three-phonon scattering mechanism to neutron, (T), 22:34793
radiation effects on, glow curves for defects from γ, 22:33464
radiation effects on, in-pile, 22:19678
radiation effects on, review, 22:26095
radioinduced aluminum-related centers in alpha-, EPR study of x-, 24:47315
radioinduced breakdown of, thickness dependence, 23:14899
radioinduced citrine coloration in, absorption spectra of gamma, (E), 23:10717
radioinduced color centers in germanium-containing alpha, optical and PMR studies of, x, 21:9657
radioinduced coloration of natural and synthetic, effects of hydrochloric acid—hydrothermal treatment on ^{60}Co γ, (E), 24:28408
radioinduced current in crystalline, dependence on applied electric field direction of 13-MeV pulsed electron, (E), 24:40174
radioinduced currents in crystalline and fused, 13-MeV pulsed-electron, 23:38385
radioinduced currents in crystalline, effects of electric field direction on 13-MeV pulsed electron, 25:45552
radioinduced defect centers in impurity-activated synthetic, EPR studies of gamma, 21:3559
radioinduced defects in alpha-, thermoluminescence and dielectric studies of gamma, 23:16890
radioinduced defects in germanium-doped crystalline, EPR study of x-, 24:28426
radioinduced defects in, thermoluminescence and thermally stimulated current study of x- and electron-, 25:7457
radioinduced density decrease in crystals of, for fast neutron dosimetry, 24:27442
radioinduced expansion of, neutron, (E/T), 21:5326
radioinduced luminescence and thermoluminescence in, relation of electron processes and dielectric constants to x, 22:29556
radioinduced luminescence of, high-energy electron and proton, 23:42394 (N-69-22194)
radioinduced mechanical property changes in, gamma, 22:11493(T) (JPRS-42628, pp 30-42)
radioinduced paramagnetic center Al in synthetic alpha-, correlation of optical absorption spectra with gamma, 24:26315
radioinduced sintering of, fast neutron, 23:48578
radioinduced smoky color centers in alpha-, study of nonthermoluminescent gamma, 22:48191
radioinduced smoky coloration in annealed crystals of synthetic, EPR study of aluminum centers for γ, (E), 23:32569
radioinduced stresses in large specimens of, optical effects of fast neutron, 24:23545
radioinduced thermoluminescent glow curve of alpha-, effects of heating rate on gamma, 24:5969
radioinduced transformation into amorphous silica, mechanism of neutron, (E), 21:40107
radiolysis of p-(phenylazo)aniline adsorbed on, 24:13894
reaction with recoil tritium, 21:24052
reactions with carbon and monazites at 1400 and 1700°C, 21:25958
reactions with monazites at 1400 to 1700°C, 21:40970
reflection coefficients for bent crystals of, between 50 and 80 keV, method for measuring, 23:40611 (CEA-R-3555)
soldering to copper cryostat in fabrication of polarized proton target, method for, 23:44773
sorptive properties for phosphorus and sulfur, 21:24103(P)
sorptive properties for protactinium, 22:8196
sorptive properties for trivalent europium ions, 23:24253
spectra of alpha, high pressure laser Raman, 24:41156 (UCLA-34-P-88-20(Rev.))
spectra of, infrared, 24:3024 (ORNL-4470, pp 1-4)
spin-lattice relaxation in fast-neutron-irradiated, at 37 GHz and 1.7 to 4.2°K, 21:13626
strontium-85 sorption by, effects of temperature on, 23:432 (AD-670010)
thermal conductivity of multi-layered nickel-opacified, to 10,000 hr operation, 24:10213(R) (ALO-2832-42)
thermal conductivity of nickel-opacified, at 1485°F, 23:43455(R) (ALO-3632-41)
thermal conductivity of paper of, opacified with copper flakes, 22:40302(R) (ALO-3632-29)
thermal inertia of, comparison with zirconium diboride, 23:27182
thermal transmission by windows of, 22:19649(R) (NUMEC-3505-30)
thermoluminescence of natural, separated from sands for accident dosimetry, 23:26598
thermoluminescence properties of Korean natural, for gamma dosimetry, 25:18813
thermoluminescence properties of natural, use for accident radiation dosimetry, 23:7863 (CONF-680920-, pp 910-16)
thorium content of, determination by autoradiography, 22:2203
transducers of, bond integrity determination by ultrasonic inspection, 21:38852 (UCID-15179)
ultrasonic wave attenuation in, measurement of, 23:9664 (BNWL-919, pp 7.1-12)
use for recording fission fragment tracks in fission foil detectors, 22:36071
use in discharge bulb for atomic tritium experiments, 21:43305
use of fused, in windows for gas laser interferometers, 21:35807 (SC-DC-66-2447)
use of oscillator of, for vacuum microbalance, 21:45477
x-ray diffraction by crystals of, vibrating at 40 kc, 21:23262
xenon—ion reactions at 40 keV with, phase changes and xenon release produced by, (E), 21:2294
feldspar—kaolin—quartz, phase diagram, 22:7958 (SC-CR-67-2688)
H_2O—quartz, oxygen isotope fractionation in, 21:8446
quartz—Zr, preparation of foamed ceramic, method for, 24:14883

QUARTZ FIBERS
compatibility of insulating, with germanium—silicon semiconductors at high temperatures, 21:24819(R) (ALO-3633-4)
evaluation as radiation dosimeter, 25:21716
evaluation for use as thermal insulation for radioisotope power systems, 22:21284 (ALO-3633-7(Vol.1))
properties for use in spacecraft, evaluation of creep, linear expansion, modulus of elasticity, rf transparency, and solar absorptance, 23:51152
properties of proprietary, for use in layered thermal insulation, 25:39647 (ALO-3632-20(Rev.1))
stability and thermal properties of insulating, at high temperatures, 21:24819(R) (ALO-3633-4)
stability at interface with copper foil in layered insulation at 1260°F, 21:41095(R) (ALO-3632-17)
stability at interface with nickel foil in layered insulation at high temperatures, 21:41095(R) (ALO-3632-17)
testing of Astroquartz-type, for thermal performance in multifoil insulation, 23:6258(R) (ALO-3632-33)
testing of Astroquartz-type, for thermal performance in multifoil insulation for radioisotope power systems, 23:2513 (ALO-3632-20)
testing of copper flake opacified Refrasil, for thermal performance in multifoil insulation for radioisotope power systems, 23:2513 (ALO-3632-20)
testing of copper opacified, for thermal performance in multifoil insulation, 23:6258(R) (ALO-3632-33)
testing of nickel opacified, for thermal performance in multifoil insulation, 23:6258(R) (ALO-3632-33)
testing of Refrasil, for thermal performance in multifoil insulation for radioisotope power systems, 23:2513 (ALO-3632-20)
testing of Refrasil, for thermal performance in multifoil insulation, 23:6258(R) (ALO-3632-33)
thermal conductivity testing of, for use in insulation materials, 22:12555(R) (ALO-3632-23)
use of gold-coated, as anodes in high-pressure 4π proportional detectors, 22:6610

Quartz Sandstone
see Quartzites

QUARTZITES
analysis of, for vanadium, activation, 21:12297
elastic properties of Project Sterling site, at pressures to 10 kb, (E), 24:41478 (CONF-700101-(Vol.1), pp 110-26)
elastic properties of, effect of deformation environment on, 24:16677 (UCRL-72164)
pressure—volume relation for Project Sterling site, (E), 24:41477 (CONF-700101-(Vol.1), pp 89-109)
radioactivity of rutilo-zirconiferous, from Spain, 22:18895
separation of thorium and uranium from, 21:12502(T) (AEC-tr-6844)
separation of uranium from rutilo-zirconiferous, 22:18895
thorium content of Spanish uraniferous, 21:12502(T) (AEC-tr-6844)
uranium content of Spanish uraniferous, 21:12502(T) (AEC-tr-6844)
uranium occurrence in Beaverlodge area, Saskatchewan, 24:36426

QUASARS
see also Seyfert Galaxies
1116 = 12, Lyman-α absorption in cluster of galaxies in line of sight to, (T), 23:30279
3C 120, variations of flux density at 6.6 cm of, (E), 23:41821
3C 181, optical variations in, (E), 23:48659
3C 191, curve of growth analysis of absorption line spectrum of, (E), 23:10374
3C 191, search for redshifted neutral hydrogen in, (E), 23:48658
3C 230, optical identification of, (E), 23:25061
3C 270, computer determination of 40-cm flux density of, (E/T), 23:41822
3C 273, abundances of hydrogen, helium, oxygen, neon, magnesium, and iron in, (E), 23:20609
3C 273, center of radio emission and flux density of A and B components of, (E), 23:25043
3C 273, models of emission-line region of, (E), 23:20609
3C 273, optical polarization of, (E), 23:20611
3C 273, photoelectric UBV measurements on, (E), 23:10375
3C 273, polarization at 8000 MHz of, (E), 23:51262
3C 273, properties of, (T), 23:12483
3C 273, steepness of spectrum of, (T), 23:25045
3C 273, variability of flux density at 5760 of, (E), 23:36347
3C 273, variations of flux density at 6.6 cm of, (E), 23:41821
3C 273, variations of flux density at 9.55 mm of, (E), 23:22755
3C 273, x-ray emission from, (T), 23:25047
3C 273B, model for, (T), 23:44070 (AD-687693)
3C 278, computer determination of 40-cm flux density of, (E/T), 23:41822
3C 279, interplanetary scintillations of, (E), 23:14518
3C 279, polarization at 8000 MHz of, (E), 23:51262
3C 279, variability of flux density at 5760 of, (E), 23:36347
3C 279, variability of linear polarization of, (E), 23:5142
3C 279, variations of flux density at 6.6 cm of, (E), 23:41821
3C 286, optical polarization of, (E), 23:20611
3C 287, radio variations in, (T), 23:25045
3C 345, optical variations in, (E), 23:48659
3C 345, polarization at 8000 MHz of, (E), 23:51262
3C 345, variability of flux density at 5760 of, (E), 23:36347
3C 345, variations of flux density at 6.6 cm of, (E), 23:41821
3C 446, polarization at 8000 MHz of, (E), 23:51262
3C 454.3, optical variations of, (E), 23:18330
3C 454.3, polarization at 8000 MHz of, (E), 23:51262
3C 454.3, variations of flux density at 9.55 mm of, (E), 23:22755
3C 48, optical polarization of, (E), 23:20611
3C 84, variations of flux density at 6.6 cm of, (E), 23:41821
3C 84, variations of flux density at 9.55 mm of, (E), 23:22755
3C273, mechanism for explosions in, (T), 23:51316
absorbing regions of, phenomenological limits on, (T), 21:34985
absorption spectrum of PKS 0237-23, (E), 24:4940
angular diameter at 18 cm of 3C 273B, (E), 22:17260

angular diameter of 3C 279 from interplanetary scintillations, (E), 21:28879
angular diameter of, variation of, (T), 22:34167
angular diameter—redshift relation for, anisotropy in, (E), 25:45219
angular diameters of 3C 273B and 3C 345, observations at interferometer baseline of 3074 km, (E), 21:33097
angular diameters of, observations at interferometer baseline of 183 km, (E), 21:33097
angular dimensions of 3C 273B, interferometer measurements of, (E), 21:41728
angular dimensions of, (E), 23:5148
angular dimensions of, radio interferometric study of, (E), 22:41182
angular separation of double-structure, (E), 24:27961
angular size of 3C 273B, (E), 22:5014
angular size of 3C 48 from scintillation measurements, (E), 25:47256
angular size of 3C 9, 3C 446, PKS 1116 + 12, and 4C 31.38, (E), 22:7095
angular sizes of, (T), 24:1234
angular sizes of, survey of, (E), 21:6943
angular structure of 3C 147, (E), 25:27351
angular structure of, observations of, (E), 22:29026
apparent magnitude—redshift relations for, (T), 23:34247
association with radio galaxies, survey for, (T), 21:16752
atmosphere of PHL 5200, formation of resonance lines in, (T), 25:9044
atmospheres of, solution of time-dependent equation of radiative transfer for, (T), 24:19589
B194, absorption red shifts in spectrum of, (E), 23:14497
B264, mass of, (E), 23:51252
B264, photoelectric spectrophotometry of, (E), 23:51250
B264, relation to cluster of galaxies, (E), 23:41836
BL Lac, optical observations of, (E), 23:34187
book: An Introduction to Astronomy: Planets, Stars, and Galaxies, 22:24022
book: Beyond the Milky Way: Galaxies, Quasars, and the New Cosmology, 24:1261
book: Galaxies, Nuclei, and Quasars, 21:41746
book: High-energy Astrophysics, 24:25819
book: Quasars, 21:28949
book: Quasi-Stellar Objects, 22:15322
brightness distributions at 2695 MHz of, (E), 22:26172
brightness oscillations of 3C 273, ultrashort-period, (E), 21:33048
brightness variations in 3C 279 and 3C 446, spectrophotometric observations of, (E), 21:20679
brightness variations in 3C 446, (T), 21:20676
brightness variations of, prediction of rapid, (T), 24:25867
bulk motion of relativistic gas, nonrelativistic equations of, (T), 22:4982
carbon ion abundance in, (E), 25:9074
characteristics of 3C 273B, (T), 22:34139 (AD-664692)
characteristics of, (T), 22:34203
charts for 22 bright, finding, (E), 25:35679
circular polarization at 2695 Mc in, detection of, (E), 23:39164
classification of B264 and Ton 256 as compact galaxies, (E/T), 25:7039
clustering of, effects on cosmic microwave background, (T), 22:17310
clustering of, possible large-scale, (T), 21:11369
clusters with large central redshift, models for, 25:47254
collapse of dense, superfluidity of neutrino sea in theory for, 21:33668
collapsed, as nuclei of galaxies, (T), 25:45278
collapsed, as nuclei of nearby galaxies, (T), 23:41901
color comparison of 3C 273 with Seyfert galaxy NGC 1068, (E), 21:13323
color excesses for distant, (T), 23:36460
color index of, emission-line effect on, (T), 21:28923
color indices and redshifts, correlation between, 21:586
color indices for, with redshifts greater than 2.2, (T), 22:8893
colors for 29, (E), 24:1171
colors of, U—V—B, (T), 22:8960
comparison of 3C 273B, with Seyfert galaxy 3C 120, (E), 24:4967
comparison to behavior of supermassive stars, (T), 21:41736
comparison with Seyfert galaxies, (T), 23:14556
composition of central regions of, chemical, (T), 25:16669
Compton scattering in, (T), 21:28924
Compton scattering in, inverse, (T), 24:42404
Compton self-absorption accompanying induced Compton effect, (T), 25:45231
conference on, Austin, Texas, 12/64, 24:37162
consequences for galactic evolution, (T), 22:34184
consequences for modern cosmology, (T), 22:34154
continuum of four, narrow-band observations of, (E), 21:13326
continuum radiation from 3C 273B, (T), 22:29112
continuum radiation from, model of, (T), 22:2740
cosmic position of, (T), 21:46093
cosmic-particle absorption by high-energy, (T), 25:55908
cosmic-particle acceleration in, effect of ionization losses on, (T), 25:1027
cosmic-ray passage through ambient gas clouds around, (T), 22:5167
cosmic-ray production in, (T), 22:15385
cosmic-ray production in, (T), 23:30367
cosmological implications of, (T), 24:1251
cosmological interpretation of, (T), 22:13099
cosmological significance of, (T), 21:14932
cosmological significance of, (T), 22:45911
density evolution hypothesis for, (T), 21:9269
detection in the galactic north polar region at 1415 MHz, (E), 21:43741
detection of, (E), 24:1163
detection of, with jet, (E), 22:43683
developments in, review of, (T), 23:12476
diameter of, measurement at 66.9 cm of, 22:5019
differentiation from luminous stars, (T), 22:8968
discovery of ON 231 and B2 1215 + 30, (E), 25:45223
discovery of, (T), 22:918
discovery of, (T), 23:51260
distance limit for 3C 147, (E), 22:4974
distance of 3C 273, (T), 22:38672
distance of, (T), 21:34980
distance of, (T), 21:43706
distance to, (T), 22:36676
distance to, cosmological, (T), 22:31578
distance, mass, effective temperature, and redshift of 3C 273, (T), 22:36599
distances of, (T), 22:43690
distances to eight, (T), 25:30125
distances to Ton 256 and PKS 2251 + 11, (E), 25:22291
distances to, (T), 23:44144
distances to, discretization of, (T), 22:38715
distribution in the Universe, (T), 23:10423
distribution in universe, (T), 21:39771
distribution in world models with shear, (T), 23:14589
distribution of 105, from statistical data, 24:19635
distribution of space, (T), 22:17219
distribution of space, (T), 22:43690
distribution of, (E), 24:17523
distribution of, (E/T), 25:58567
distribution of, (T), 24:42416
distribution of, (T), 25:35810
distribution of, (T), 23:34254
distribution of, (T), 24:1155
distribution of, (T), 24:39805
distribution of, (T), 25:35811
distribution of, anisotropic, (T), 21:11370
distribution of, in clusters, (T), 24:3077
distribution of, local theory of, (T), 25:40325
distribution of, membership in supergalaxy, (T), 25:40325
distribution of, space, (T), 22:2721
distribution of, spatial, (T), 22:31578
distribution of, superclustering for anisotropic, 23:39829
distribution of, with large redshifts, (E/T), 25:52582
dynamics of, role of quarks in, (T), 25:934
effects of strong on, dissolution of early clusters of galaxies, (T), 24:19678
effects on photoionization of intergalactic hydrogen, (T), 24:21494
ejection at relativistic velocities from nearby galaxies, hypothesis of, (T), 21:3622
ejection from center of Milky Way, (T), 22:45854
ejection from peculiar galaxies, (T), 21:26954
electromagnetic-wave buildup in, by induced Compton effect, (T), 23:41820
electron densities in, (T), 23:5140
electron densities in, (T), 23:51235
electron energy losses in, inverse Compton or synchrotron radiation, (T), 21:3619
electron heating from induced Compton effect around, (T), 25:7026
electron pair production in, observable effects of, (T), 25:35678
electron relativistic streaming in, (T), 24:19613
electron temperatures in, (T), 23:51235
emission energies of, neutrino factor in, 23:36348
emission spectra of, (T), 24:17609
emission temperature of, (T), 23:5140
emission-line region of 3C 48, models of, (T), 24:4917
energetics of, (T), 22:29109
energy and mass balance of massive and supermassive stars, equations for, 22:41147
energy densities in, limits to, (T), 21:33051
energy emission from, (T), 22:28996
energy emission from, model for, (T), 22:17303
energy generation in, (T), 22:5033
energy in, production and dissipation of, (T), 25:45280
energy of relativistic particles and magnetic fields in reabsorbing, total, (T), 22:45893
energy production in 3C 47, 3C 249.1, and 3C 263, (E), 24:51305
energy radiation from, beamed, (T), 22:29052
energy release in, through nonmassive gravitational collapse episodes, (T), 23:20658
energy requirements of, (T), 22:925
energy requirements of, (T), 23:22860
energy source for, (T), 22:52346
energy source for, (T), 22:23968
energy source for, quark theory for, 24:10739
energy source for, uniformly rotating relativistic disks as, (T), 25:43092
energy source of, (T), 21:36987
energy source of, (T), 21:42232
energy source of, dense star systems as, (T), 22:29108
energy source of, stellar collisions as, (T), 22:43786
energy sources for, (T), 25:33030
energy sources for, supermassive objects as, (T), 25:55798
energy sources of, relativistic effects in study of, (T), 22:43686
envelopes of PHL 5200 and RS 23, expanding, (E), 24:39783
envelopes of, structure and mass of, (T), 22:36575
evolution into galactic nuclei, (T), 25:58626
evolution into normal galaxies, (T), 23:14583
evolution of supermassive stars, (T), 22:7090
evolution of, (E), 25:49624 (AD-722871)
evolution of, (T), 21:6924
evolution of, (T), 23:44075
evolution of, evidence for radio-luminosity, (T), 24:15065
evolution of, into normal galaxies, (T), 23:30288
evolution of, into radio galaxies, (T), 22:29122
evolution of, mode of, (T), 21:1989
evolution of, review on, (T), 25:30148
evolution of, spinars in, (T), 25:13952
evolution to Seyfert galaxies, (T), 24:19677
evolutionary properties of, determination by luminosity—volume test, (T), 22:23940
evolutionary stages in relation to galaxies, (T), 24:51302(T) (CSIRO-Trans-10208)
existence of planckeons in, 21:5031
explosions in, magneto-rotational, (T), 25:35819
explosions in, mechanisms for, 23:51316
features of compact galaxies III Zw 2 and 3C 120 resembling, (E), 22:36649
flares in PKS 2345-16 and NRAO 512, detection of optical, (E), 25:7028
flux densities at 2695 MHz of, (E), 22:52431
flux densities of 3C 273, 3C 279, and 3C 454.3, at 1.55 cm, (E), 24:8272
flux densities of four, daily and hourly variations of, (E), 25:55731
flux density at 1.96 cm of 3C273, 3C279, 3C446, and 3C454.3, variations of, (E), 21:18385
flux density of 3C 273, 25:35686
flux density of, fluctuations of, (E), 25:58556
flux variations in 3C 273, 3C 279, and PKS 1510-08, (E), 24:10249
flux variations of 3C 273, 3C 279, 3C 286, 3C 345, and PKS 1510-08, at 2.695 GHz, (E), 24:1193
flux variations of PKS 1510-08, at 2.695 GHz, (E), 24:1193
formation and structure of, (T), 21:563
formation in early Universe, (T), 23:51353
formation in expanding Universe, (T), 22:816
formation of temporary stars in massive gas clouds, (T), 24:10233
formation of, (T), 23:44080
formation of, theory of, (T), 22:8899
fragmentation in, (T), 25:58668
galaxies associated with, of small redshift, (E), 25:11649
gamma emission from 3C 273, upper limits for, (E), 24:8363
gamma emission from 3C 48, upper limits for, (E), 24:8363
gamma emission from 3C 93, (E), 25:35700
gamma emission from, in initial formation stages, (T), 24:6309
gamma emission from, search for, (E), 21:46039(R) (AD-647890)
gamma emission from, upper limits for, (E), 25:49631
gamma reactions in central regions of, (T), 25:16669
gas motions in envelopes of, (E/T), 25:876
gravitation equations for, exact solution of, (T), 21:18851
gravitation wave emission with negative energy from, (T), 21:9673
gravitational collapse and anticollapse in, relation to high-energy particles and magnetic fields associated with, (T), 22:41146
gravitational collapse in, (T), 24:32600
gravitational equations applied to clusters of, Einstein's, (T), 21:36988
gravitational lens mechanism for explaining, (T), 25:11584
gravitational radiation in, conversion into electromagnetic waves, (T), 25:55805
gravitational redshift of, (T), 22:903
gravitational redshifts in, (T), 25:55808
gravitational redshifts of, (T), 24:15056
gravitational wave emission by, measurement by scintillation detection, 22:17339
gravitational-collapse events in, local, (T), 23:5140
helium abundance in, (E), 25:9074
helium abundance in, (T), 25:40247
helium abundance in, (T), 25:33044
Hoyle—Fowler model of, objections to, (T), 23:22858
Hubble plot of, anomalous, (T), 23:30249
hydrogen abundance in, (E), 25:9074
identification between declinations 0° and -20°, (E), 21:14935
identification from 4C catalog of, optical, (E), 24:46909
identification of 37, optical, (E), 22:15294
identification of 3C 49, 3C 173, and 3C 190 as, (E), 25:22285
identification of 49 4C radio sources with, (E), 25:7027
identification of 4C 50.11 as, (T), 22:17298
identification of blue stellar objects as, (E), 24:51311
identification of extragalactic radio sources as, (T), 23:51229
identification of five weak, by lunar occultation, (E), 21:31124
identification of five, optical, (E), 25:58538
identification of MSH 21-23 as, optical, 21:3611
identification of PKS 0320-37 and PKS 1302-49 as, (E), 25:24752
identification of PKS 0906 + 01 as, (E), 24:17512
identification of seven 4C sources with blue objects, 22:4926
identification of sixteen, radio and optical data for, (E), 21:16757
identification of southern hemisphere, (E), 25:9067
identification of southern, (E), 25:38087
identification of southern, optical, (E), 25:55725
identification of, (E), 25:22283
identification of, between +20 and +27°, (E), 23:6823
identification of, from optical measurements on 41 cosmic radio sources, (E), 25:7017
identification of, in Parkes 2700-MHz survey, (E), 25:19383
identification of, optical, (E), 24:32564
identification of, optical, (E), 24:39766 (AD-704793)
identification of, optical, (E), 24:51310
identification of, optical, (E), 25:7020
identification using 4C right ascensions and Arecibo declinations, optical, (E), 25:7019
image amplification by gravitational lens effects of foreground galaxies, (T), 22:52352
implications for recent developments in cosmology, (T), 23:10422
infrared emission from nuclei of, model featuring matter accretion by neutron stars, (T), 25:30247
infrared emission from, (T), 25:47239
infrared emission from, (T), 23:22855
infrared emission from, (T), 24:25820

infrared emission from, (T), 23:25027
infrared emission from, mechanism for, (T), 24:28063
infrared emission from, observations and theory, (T), 24:23697
infrared luminosities of, (T), 23:44070 (AD-687693)
infrared photometry of 3C 273, (E), 22:52434
intensity fluctuations of a relativistically expanding source, (T), 21:20668
intensity of scintillating component of 3C 273, (E), 25:47255
intensity variations in, model for optical and radio, (T), 21:6942
intensity—red shift correlation of effects of intervening galaxies on, (T), 22:4997
interaction with optically thick environments, (E), 23:36330
ionization structure of nebulae associated with, (T), 25:45227
ionization structure of, (T), 25:38086
jets from, mechanisms of formation of, (T), 23:44080
jets in, formation and stability of, (T), 24:12566
lifetimes of, (T), 22:41269
lifetimes of, harmonic-mean, (T), 21:574
light curve for 3C 345, (E), 24:15050
light emission from, spectral shift of, 22:31538
light emission from, variations of, (T), 22:45865
light fluctuations of 3C 273, power spectrum, (E), 24:42394
light fluctuations of, (T), 23:5140
light fluctuations of, (T), 22:34132(R) (AD-661573)
light variations from, (T), 23:5188
light variations of 3C 273 and 3C 454.3, short-time-scale, (E), 25:16673
light variations of 3C 273, statistical analysis of, (T), 21:39775
light variations of, behind clusters of galaxies, (T), 24:27965
light variations of, short-time-scale, (E), 25:16673
luminescence variations of short period in 3C 446, optical, (E), 21:20673
luminosities and spectral shifts of, (T), 25:30220 (P-4494(RAND))
luminosities of 4C 05.34, optical and radio, (E), 24:27992
luminosity fluctuations and local model of, (T), 21:16751
luminosity functions of, (T), 22:43690
luminosity functions of, at 400 and 2700 MHz, (E), 25:58644
luminosity functions of, optical and radio, (T), 22:17219
luminosity functions of, optical, (E), 25:7010
luminosity of 29, (E), 24:1171
luminosity of 3C 273, intrinsic, (T), 24:15058
luminosity of 3C 48, (T), 22:795
luminosity of, (T), 25:58659
luminosity of, distribution of, (T), 22:29107
luminosity of, failure of supernova rate from coalesced stars to explain, (T), 25:19320
luminosity of, model for, (T), 25:7118
luminosity of, optical, (T), 24:15065
luminosity of, peak, (T), 23:5140
luminosity of, relation to polarization, (E), 23:16581
luminosity variations of, size determinations from, (T), 22:36681
luminosity—velocity distribution of, (T), 22:31574
luminosity-volume test for, (T), 25:11664
magnetic field ejection from, (T), 24:6311
magnetic field of 3C 273B, (T), 22:2740
magnetic fields in rapidly rotating, generation of, (T), 25:38089
magnetic fields in, origin and properties of intense, (T), 25:40227
magnitude and redshift of, in anisotropic and homogeneous Universe, (T), 22:52459
magnitude of, cosmological interpretation of, (T), 23:18368
magnitude variations from 1934 to 1961 for 3C 273, photographic, 22:2750
magnitude—number relation for, (E), 24:4982
magnitude—redshift relation for, (T), 25:43089
magnitudes of, absolute, (T), 21:9277
magnitudes of, effects of absorbing clouds at high-galactic latitudes on, (T), 23:22852 (NP-17833)
mass in, generation of negative, 21:6965
mass loss from nuclei of, (T), 25:9130
mass of, (E/T), 25:19364
mass of, (T), 22:36676
mass of, in clusters of galaxies, (E/T), 25:47297 (CALT-68-X-4)
masses of 3C 273B, 3C 147B, 4C 39.25B, and CTA 102, (E/T), 25:49626
masses of, (T), 24:15056
masses of, (T), 25:2876
masses of, lower limits on, (E), 25:38081
masses of, procedure for determining, (T), 23:51252
masses of, upper limits on, (E/T), 25:49626
masses of, upper limits on, (T), 24:15057
matter accretion by, (T), 24:15059
matter accretion from intergalactic space by, (T), 24:15058
measurements at 2,300 MHz of, trans-Pacific interferometer, (E), 23:30247
mechanism for, matter—antimatter separation above 350 MeV for, (T), 23:34596
mechanism for, possible, (T), 21:11375
microwave radiation from 3C 279, gravitational deflection near Sun, (E), 25:43094
model for, 21:18381
model for 3C 191, (T), 21:43730
model for formation from quasags, (T), 25:58523(T) (CSIRO-Trans-10650)
model for rapid light fluctuations in, (T), 21:37043
model for variable, relativistically expanding, (T), 22:8905
model for, (T), 21:34982
model for, (T), 22:837
model for, (T), 22:38672
model for, (T), 23:44070 (AD-687693)
model for, (T), 25:22339
model for, (T), 22:4924
model for, (T), 23:10425
model for, as proto-black holes, (T), 25:45276
model for, based on exact solution of Einstein's gravitational equations, (T), 21:36988
model for, contraction and pulsation, (T), 21:18380
model for, cosmological, (T), 21:28949
model for, directed-emission, 22:13096
model for, featuring condensation of antimatter in galaxies, (T), 23:51353
model for, featuring inverse Compton effect, (T), 23:34170
model for, featuring nucleon breakup into quarks, (T), 23:22763
model for, featuring rapidly rotating supermassive, (T), 24:27988
model for, featuring rapidly rotating supermassive stars, (T), 25:58496
model for, featuring relativistic effect in pulsating fluid spheres, (T), 24:4980
model for, featuring relativistic star clusters, (T), 24:32605
model for, featuring spinning magnetic supermassive stars, (T), 24:1194
model for, featuring stellar collisions in dense clusters, (T), 23:18365
model for, featuring supernovae, (T), 22:26151
model for, plasma, (T), 23:27251 (AD-674265)
model for, Sturrock—Feldman, (T), 24:15058
model of, 22:4993
model of, binary system as, (T), 22:13120
model of, equilibrium state of spherical gravitating shells in, 21:31153
model of, evolutionary, (T), 21:43720
model of, gravitational lens, (T), 22:8889
model of, inverse Compton effect in, (T), 21:6944
model of, lagging-core, (T), 22:11167
model of, local, (T), 22:49903
model of, mechanism of fluctuating magnetic fields of ionized clouds in, 23:25066
model of, radial oscillations in compressible homogeneous relativistic, 21:20660
model of, restrictions on, (T), 22:11139
model of, single-body, (T), 21:39775
model of, stellar coalescence and multiple supernova, (T), 22:861
model of, synchrotron, (T), 22:17334
model of, variable radiation in magnetodynamic, (T), 24:25867
models for compact radio sources ejected from, (T), 24:37057 (AD-701073)
models for massive superdense, 24:12518
models for, (T), 23:18336
models for, (T), 24:39770
models for, (T), 25:49618 (AD-714110)
models for, (T), 23:12483
models for, (T), 24:37056 (AD-698206)
models for, (T), 22:15322
models for, (T), 23:27271
models for, (T), 23:44075
models for, (T), 23:14556
models for, electrodynamic, (T), 24:35085
models for, featuring antimatter cores, (T), 25:11585
models for, physical, (T), 24:1155
models for, slow rotation of relativistic polytropic, (T), 25:9078
models for, steady-state and Friedman cosmological, 21:28920
models of, (T), 21:6961
models of, restrictions on, 21:9281
motions of 3C 345, 3C 351, 3C 446, and MSH 14-121, absolute proper, 21:3612
nature of, (T), 22:45868
nature of, (T), 23:22860
nature of, and role in cosmology, 21:24881
nature of, from optical brightness changes, (E), 25:38082
nuclear nature of, from statistical properties of the optical variability, (T), 23:5154
nuclear parameters of 3C 273, 22:7089
nucleogenesis in, (T), 22:19688
nucleosynthesis in, (T), 23:12451
number density of, (T), 23:36456
number—magnitude relation for, (E), 24:4982
OA 33, optical identification of, (E), 23:22754
observation of two images of single, (T), 22:8866
observational data on, (T), 22:15322
observations at short centimeter wavelengths of 3C 273 and 3C 279, 22:13162
observations of 14, polarimetric, (E), 21:34987
observations of OZ-252, optical and radio, 25:22298
observations of, conference papers on, 23:41788
observations of, cosmological deductions from, (T), 21:33078
occultation by galaxies, (T), 21:43701
occultation of, solar, (E), 25:58662
optical brightness and polarization of 3C 345, variability of, (E), 22:29027
optical brightness variations and polarization of 3C446, (E), 21:6939
optical flux from, nature of, (T), 23:5182
optical identifications of, (E), 22:38702
optical identifications of, between +20° and +27°, (E), 22:47734
optical intensity of, (T), 24:44958
optical luminosity fluctuations of 3C 273, (T), 22:29057
optical monitoring of twenty, (E), 25:58568
optical monitoring of, (E), 25:32959
optical observations of, (T), 22:29104
optical polarization in, (E), 22:41179
optical polarization of 3C 273, (E), 22:17232
optical positions of, (E), 22:13194
optical positions of, (E), 23:6830
optical positions of, plate overlap method for obtaining, (E), 23:51228
optical properties of, (T), 22:5008
optical properties of, (T), 23:27313
optical radiation from 3C 273, statistical properties of, (T), 22:7089
optical variability of 1215 + 30, (E), 25:55726
optical variability of 3C 273, statistical parameters for, (E), 24:30087
optical variability of 3C 345, (E), 25:6995
optical variability of, (E), 25:38082
optical variations in 3C 446, (T), 21:33051
optical variations in thirty, (E), 23:27279
optical variations in, (E), 23:48659
optical variations of 3C 345, (E), 24:4927
optical variations of large sample of, (E), 25:32949
origin and properties of, review of, (T), 21:3588
origin and radio-emission spectra of, (T), 21:11353
origin of, (T), 22:8872
origin of, galactic, 21:2001
origin of, local model for, 21:6958
origin of, local, (T), 24:10338
origin of, theory of local, (T), 21:20669
oscillating sphere model for, (T), 22:17292
oscillation frequencies and instability conditions, (T), 22:43714
outburst in 3C 446 during October 1966, spectral changes due to, (E), 21:582
parameters for, near 2 flux units at 408 MHz, (E), 24:42388
parameters of 3C 273, infrared and optical, (T), 24:42404
parameters of, (T), 23:14520
perturbations of dense star clusters, stability for radial, (T), 22:52404
PHL 5200, absorption red shifts in spectrum of, (E), 23:14497
photo-ionization of gas clouds associated with, (T), 25:45212
photoelectric sequences for 22 bright, (E), 25:35679
photometry of 175, in field 13h, +36°, (E), 24:25860
photometry of 3C 273, UBV, (E), 25:4916
photometry of compact objects near 5C 3 sources, (E), 25:866
photometry of southern, three-color, (E), 23:51317
photometry of, UBV, (E), 24:1162
photon emission at 3 x 10^{10} eV from, (T), 25:55908
physical parameters of 3C 273, (T), 22:38672
physics of, multitemporal theory of relativity for, 21:17015
physics of, review on, (T), 23:44143
PKS 0237-23, analysis of red shift of, (T), 23:10424
PKS 0237-23, explanation of absorption red shifts in, (T), 23:8423
PKS 0950 + 00, identification by brightness variations, (E), 23:34198
PKS 1218 - 02, identification by brightness variations, (E), 23:34198
plasma around, positron creation and annihilation in rarefied, (T), 25:45478
plasma ejection from, (T), 25:11658
plasma ejection from, (T), 24:6311
plasma turbulence in, excitation and spectrum of, (T), 24:25871
plot of log N—log S for seventy, (T), 22:2722
polarization at 2.07 cm, linear, (E), 23:5133
polarization at 21 cm, circular, (E), 25:32956
polarization at 49 cm, circular, (E), 24:42409
polarization at 6 cm of, linear, (E), 22:47739
polarization between 11 and 20 cm of, linear, (E), 23:16581
polarization between 11 and 20 cm of, linear, (E), 23:16580
polarization measurements at 21.3 cm, linear, 21:18392
polarization measurements on 3C 273, 3C 279, and 3C 454.3, at 1.55 cm, linear, 24:8272
polarization measurements on 3C 279, 3C 345, 0405-12, and 0837-12, optical, (E), 21:28880
polarization of 1418-MHz radiation from, upper limits for circular, (E), 22:34198
polarization of 3C 279, evolution at 8 GHz of linear, (E), 25:58556
polarization of optical and radio emission from compact, circular, (T), 22:899
polarization of, Faraday effect in case of quasi-transverse propagation, (T), 24:42395
polarization of, linear, (E), 24:27963
polarization of, relation of spectral index to linear, (E), 23:51238
polarization plane of, time variation of positional angle of, 21:13339
position of 3C 273B, (E), 25:58566
positions of 21, (E), 23:22754
positions of radio sources opposite known, (T), 22:41269
positions of, (E), 22:4968
positions opposite radio sources as cosmological test, 22:45853
power levels of, (T), 22:918
proper motion and distance of 3C 273, (T), 22:45854
proper motion and distance of 3C 287, (T), 22:45854
properties of 3C 273B, (T), 22:31563
properties of 3C 9, anomalous, (T), 24:32597
properties of galaxies in clusters containing Ton 256 and B 264, (E), 24:42479
properties of, (E/T), 22:28998
properties of, (E/T), 24:32587
properties of, (T), 21:539 (NYO-3164-2, Lect. 1)
properties of, (T), 21:568
properties of, (T), 21:2011
properties of, (T), 21:41742
properties of, (T), 22:919
properties of, (T), 23:12476
properties of, (T), 23:27271
properties of, (T), 23:39279
properties of, (T), 23:12483
properties of, discussions at Prague, 8/67, on, 22:13083
properties of, in common with radio galaxies, (T), 24:1234
properties of, optical and radio, (T), 21:28949
properties of, optical and radio, (T), 21:43707

properties of, relation of color and radio polarization, (T) , 21:9278
properties of, review of 1967 and 1968 work on, (T), 23:44075
properties of, review of observed, (E), 24:1186
properties of, review on, (T), 24:21481
properties of, review, (T), 21:18384
properties, review of, 24:10252
proton synchrotron emission from, (T), 22:41197
quark existence in, search for, 23:36904
quark fusion in, (T), 25:9075
radiation emission from 3C 273, high-energy, (E), 25:19455
radiation emission from, inverse Compton, (T), 22:29109
radiation emission from, mechanism for, (T), 22:29095
radiation energy of, inverse Compton effect in, 21:6954
radiation fields in nuclei of, (T), 25:9130
radiation from, effects of intervening galaxies on, (T), 21:46047
radiation from, ionization of intergalactic matter by uv, (T), 25:13939
radiation from, maser action in, 21:6955
radiation from, mechanism for continuum, (T), 22:29112
radiation from, mechanism for nonthermal optical, (T), 22:52386
radiation from, model for continuum, 22:34139 (AD-664692)
radiation from, redshifted ionizing, (T), 23:36456
radiation from, screening by intervening galaxies, (T), 23:20657
radiation mechanism in, collective bremsstrahlung from relativistic electrons as, (T), 24:8271
radiation variations in magnetodynamic model of, (T), 22:7089
radiative transfer in, model for, 23:13008
radio brightness distributions for 21, (E), 23:20610
radio burst from 3C 273, particle acceleration during 1966-1967, (E), 24:8273
radio emission at 318 MHz from, (E), 23:51251
radio emission at 9.602 GHz from 3C 279, deflection in solar gravitational field, (E), 24:51301 (AD-706311)
radio emission from 3C 273, rapid fluctuations of, (E), 24:25852(T) (CSIRO-Trans-9716)
radio emission from 3C273, polarization of, (E), 21:5038
radio emission from optical, search for, (E), 25:22292
radio emission from, anisotropy of, (T), 24:42417
radio emission from, circular polarization of, (E), 22:23953
radio emission from, circular polarization of, (E), 22:11129
radio emission from, coherent synchrotron mechanism for, 21:33102
radio emission from, mechanism for fluctuating, (T), 25:7016
radio emission from, mechanism for, (T), 22:7096
radio emission from, model for, (T), 24:21491
radio emission from, relation of plasma- and electromagnetic-wave-induced Compton effect to, (T), 23:12470 (NP-17750)
radio emission from, variations of, (T), 22:45865
radio emission increase during 1966—1967 from 3C 273, (E), 22:41181
radio flux densities at 5.2 cm, (E), 22:43819
radio flux densities at 8.2 mm and 3.36 cm of 3C 84, 3C 273, 3C 279, and NRAO 150, (E), 25:22288
radio flux densities for 3C 273 and 3C 279, (E), 25:19376
radio flux density variations of, (E), 25:19367
radio flux from 28, (E), 25:30129
radio image of 3C 279, model for rapidly changing, 25:52554
radio intensity variations of 3C 273, at 2.3 and 8.15 mm, (E), 25:58524
radio intensity variations of, (E), 22:52344
radio luminosity and surface brightness of, absolute, 21:3608
radio polarization at 6 cm of, linear, (E), 24:39779
radio polarization at 8000 Mc, time variations of, 21:16753
radio polarization of, (E), 24:42408
radio polarization of, circular, (T), 25:52540
radio polarization of, linear and circular, (T), 25:47238
radio positions for 21, (E), 23:20610
radio properties of, (T), 22:5008
radio scintillation of 3C 273, interplanetary, (E), 21:5046
radio scintillations of, interplanetary, (E), 24:10257
radio spectra at 60 MHz, (E), 25:2845
radio spectra of, comparison with spectra of radio galaxies, (T), 23:3203
radio spectra of, interpretation of curvature in, (E/T), 25:2847
radio spectrum of Parks 2134 + 004, (E), 22:31554
radio structure of, (E), 23:20610
radio structures of seventy-nine, (E), 25:19350
radio-brightness distribution of 3C 273B, (E), 22:36575
radio-wave deflection from 3C273 and 3C279, in solar gravitational field, (E), 24:35075
radio-wave deflection from 3C279, in solar gravitational field, 9.602 GHz, (E), 24:35076
radioluminosity as function of redshift for, absolute, (E), 25:11581(T) (CSIRO-Trans-10247)
radiopolarization at 3240 MHz of PKS 1127-14, circular, (E/T), 25:38084
radiopolarization of, at 9.5 mm, (E), 25:40248
red shift for, gravitational and cosmological components of, (T), 21:39769
red shift in, gravitational, (T), 21:11371
red shift of 3C 345, (E), 21:33103
red shift of, cosmological nature of, (T), 22:794
red shift of, cosmological significance of, (T), 22:36676
red shift of, evidence against colliding-galaxy origin of radio sources from, (T), 21:20716
red shift of, interpretation of, (T), 22:29109
red shift of, origin of, (T), 22:28996
red shift—absolute magnitude relation for, (T), 22:29092
red shift—flux density relation, cosmological significance of, (T), 21:2000
red shifts and positions of, correlation of, (T), 21:11377
red shifts and power outputs of, (T), 21:18400
red shifts in universes with non-zero cosmological constants, (T), 21:20692
red shifts of, (E), 22:41180
red shifts of, (T), 22:52364
red shifts of, (T), 21:39765
red shifts of, (T), 22:41269
red shifts of, cosmological interpretation of, (T), 22:38664
red shifts of, cosmological interpretation of, (T), 23:18368
red shifts of, cosmological significance of, (T), 23:14579
red shifts of, effects of distance on, (T), 22:52358
red shifts of, gravitational, (T), 22:49903
red shifts of, interpretation of, (T), 22:45861
red shifts of, relation to angular size, (T), 22:34167
red shifts of, relation to radio flux densities, (T), 21:41738
red shifts of, relation to radio magnitudes, (T), 21:6945
red shifts of, relation to spectral absorption lines, (E), 22:45913
red-shift magnitude relation for, (T), 21:41734
red-shifts of, correlation between color and, (T), 21:13327
redshift of PKS0237-23, (E), 21:16756
redshift of PKS0237-23, (E), 21:16755
redshift of, (T), 22:21800
redshift—magnitude relation for 147, (E), 24:39807
redshifts of, correlation of colors with, (E), 21:573
relation of large- and small-redshift, to clusters of galaxies, (E/T), 25:35693
relation of low redshift, to small clusters of faint galaxies, , 25:7039
relation to clusters of galaxies, (E), 23:41836
relation to galactic nuclei, (T), 24:44949
relation to galaxies, 24:10252
relation to galaxies and radio galaxies, (T), 21:26954
relation to giant pulsars, possible, (T), 23:41833
relation to N-type and Seyfert galaxies, (T), 22:41200
relation to N-type galaxies, (T), 22:13099
relation to radio galaxies and galaxies, (T), 22:52364
relation to radio-compact and radio N galaxies, (T), 22:41184
relation to Seyfert galaxies, (T), 23:10425
relation to small radio sources in galactic nuclei, (E/T), 25:7111
relations between number, red-shifts, and brightness of, (T), 21:11373
relativistic cosmological picture of, 22:2739
research on, developments in, (T), 25:49597 (CONF-690732, pp 8.1-37)
scintillation of 3C 273, (E/T), 24:42415
scintillation of 3C 48, interplanetary, (E), 25:11580(T) (CSIRO-Trans-10204)
scintillation parameters of 3C 48, (E), 25:47255
scintillations of, effects of electron-density fluctuation in interplanetary medium on, (E), 21:16762
scintillations of, interplanetary, (E), 22:11166
screening by intervening galaxies in Eddington—Lemaitre universe, (T), 22:43846
search for, in direction of clusters of galaxies, (E), 23:48646
space distribution of, (E), 25:7010
spectra and flux densities of, at 5 GHz, (E), 23:30241
spectra and red shifts of, (T), 22:34200
spectra at 88 GHz, (E), 22:13195
spectra at large redshift, excess absorption, (T), 24:19678
spectra in Friedmann universes, production of absorption, (T), 23:48647
spectra in the far ultraviolet, emission, (E/T), 21:28883
spectra of 0 II and 0 III forbidden transitions in emission, (T), 22:8966
spectra of 25, (E), 23:8395
spectra of 3C 191, absorption line, (T), 21:43730
spectra of 3C 191, analysis of absorption, (E), 21:34986
spectra of 3C 191, containing quark atoms, 22:43724
spectra of 3C 273 and 1510-08, search for redshifted line of neutral hydrogen in, (E), 25:30121
spectra of 3C 273, (E), 24:19617
spectra of 3C 279, time variations of, (E), 24:1166
spectra of 3C 345, optical, (E), 21:33103
spectra of 3C 345, variation of optical, (E), 21:28903
spectra of 3C 446, photoelectric observation of changes in, (E), 21:28891
spectra of 3C 84 and 3C 273 at mm and cm wavelengths, (E), 21:565
spectra of 3C 9, 3C 48, 3C 245, 3C 273, and 3C 446, composite, (E), 24:51303(T) (CSIRO-Trans-10245)
spectra of 4C 05.34, absorption-line, (E), 25:16671
spectra of nineteen, measurement of red shift in,·(E), 21:28882
spectra of ON 231 and B2 1215 + 30 at 2695 MHz, (E) , 25:45223
spectra of OQ208, (E), 22:5006
spectra of Parkes 0237—23, two absorption-line redshifts in, (E), 21:20613
spectra of PHL 5200 and RS 23, (E), 24:39783
spectra of PHL 938, curve of growth analysis of absorption, (E), 24:17510
spectra of PHL 938, TON 1530, and PKS 0237-23, absorption, (E), 24:42393
spectra of PKS 0237-23, identification of Ti III in, (E), 24:1173
spectra of PKS 0237-23, line shifts in absorption, (E/T), 25:52534
spectra of PKS 1116 + 12, models for absorption, (T), 25:16722
spectra of radio-quiet, (E), 22:29032
spectra of, (E), 22:41180
spectra of, (E), 23:39177
spectra of, (T), 22:31563
spectra of, (T), 23:20617
spectra of, (T), 24:12568
spectra of, (T), 22:29107
spectra of, (T), 22:29104
spectra of, absence of Lyman-α absorption in, (T), 25:35811
spectra of, absorption and emission, (T), 23:51260
spectra of, absorption features in, (T), 22:43821
spectra of, absorption lines in, (E), 24:42408
spectra of, absorption lines in, (E/T), 25:876
spectra of, absorption lines in, (E/T), 25:4919
spectra of, absorption lines in, (T), 22:8967
spectra of, absorption lines in, (T), 23:3216
spectra of, absorption lines in, (T), 22:29052
spectra of, absorption redshift lines in, (E), 24:19628
spectra of, absorption, (E), 25:40240
spectra of, Bowen resonance fluorescence lines in, (E/T), 25:7037
spectra of, classification of radio, (E), 25:19369
spectra of, coincidences between wavelengths of absorption features of HZ 29 and, (T), 21:20693
spectra of, Compton effect interpretation of redshift in, (T), 22:29142
spectra of, detection of heavy elements in intergalactic space by Lyman-α line absorption in, (T), 21:13316
spectra of, detection of redshifted 21-cm absorption lines in, (T), 23:48645
spectra of, distribution of red shifts in, (T), 23:5141
spectra of, effects of induced Compton scattering by thermal electrons on, (T), 25:58527
spectra of, emission-line intensities in, (T), 25:45212
spectra of, emission-line variability in, (T), 21:34980
spectra of, excitation of C III 1909 emission lines in, (T), 24:23648
spectra of, excitation of forbidden lines in, (T), 22:43849
spectra of, excitation of semiforbidden $2s^2$ ^1S—$2s2p$ ^3P lines in, (T), 24:17505
spectra of, forbidden line, (T), 23:51235
spectra of, identification of line at 2974 A in, (T), 22:4931
spectra of, interpretation of UBV measurements in, (T), 21:31127
spectra of, interpretation of, (T), 21:6924
spectra of, jet model for explaining line, (T), 22:43689
spectra of, limits to distance based on absorption-line, (T), 21:28892
spectra of, Lyman-α absorption in, 21:20680
spectra of, mechanism for high-frequency radio, (T), 25:9085
spectra of, method for identifying absorption lines in, (E) , 22:43789
spectra of, multiple absorption redshifts in, (T), 25:19371
spectra of, nature of optical continuum in, (T), 22:47722
spectra of, occurrence of absorption lines in, (E), 22:45913
spectra of, origin of absorption lines in, (T), 24:25866
spectra of, origin of absorption, (T), 21:43701
spectra of, photon, (T), 25:35678
spectra of, processes leading to deviations from power-law, (T), 24:19620
spectra of, radio, (E), 22:31569
spectra of, radio, (T), 22:45867
spectra of, radio, (T), 25:13843
spectra of, red shifts in emission-line, (T), 22:52466
spectra of, red shifts in, (T), 22:8967
spectra of, red shifts in, (T), 23:27271
spectra of, relation of metagalactic rotation to red shift in, (T), 22:52432
spectra of, review of forbidden emission lines in, 23:44134
spectra of, review of peculiarities in, (T), 24:17491
spectra of, review of problems of line identification in, 23:16579
spectra of, structure of wide emission lines in, (T), 23:5153
spectra of, uv- and forbidden-line intensities in, (T), 23:12480
spectra of, variations in radio-frequency, (E), 21:6923
spectra of, variations of, (T), 23:22761
spectra of, wavelengths of absorption lines in, (T), 21:16758
spectra of, x-ray,(T), 25:16670
spectra with broad emission lines, strength of $H\beta$ in, (E), 22:49947
spectra, redshift distribution in, (E), 23:10377
spectral absorption lines in, statistical tests for origin of, (T), 23:22753
spectral absorption lines produced by galactic halos, (T), 23:27270
spectral blueshifts of PHL 938, TON 1530, and PKS 0237-23, (E), 24:42393
spectral classification of Markaryan galaxies as, (E), 25:9140
spectral density of random fluctuations of 3C 273, (T), 21:9280
spectral displacements of, comparison with Doppler effect results, (T), 21:3598
spectral energy distribution from 0.3 to 2.2 μ of, absolute, (E), 24:12542
spectral index of 3C 446, (T), 21:31127
spectral index—flux density relation for, (E), 24:27996
spectral line intensities for 3C 249.1, (E), 22:41235
spectral line intensities for PHL 938, (E), 22:41235
spectral line intensities for PKS 2251 + 11, (E), 22:41235
spectral red shifts of seven, (E), 23:8393
spectral red shifts of twelve new, (E), 23:8394
spectral red shifts of, interpretation of, (T), 23:18332
spectral redshift distribution of, (E/T), 24:46905
spectral redshift distribution of, periodicities in, (E), 24:6339
spectral redshift of 4C 05.34, (E), 24:27992
spectral redshift of 5C 2.56, (E), 24:23631
spectral redshift of, relation to cosmological constant and Lemaitre model, 24:51372 (AD-709149)
spectral redshift of, Schwarzschild-metric calculation of gravitational, 25:27347

  spectral redshift—distance relationship for, (E), 25:32954
  spectral redshifts for PHL 938, PKS 0237-23, and TON 1530, absorption, (E), 25:40240
  spectral redshifts greater than or equal to 2 in, detectability of, (T), 23:41886
  spectral redshifts in PKS 0237-23 and Ton 1530, multiple absorption, (E), 24:23630
  spectral redshifts of 14, (E), 24:23631
  spectral redshifts of double-structure, (E), 24:27961
  spectral redshifts of PHL 938, TON 1530, and PKS 0237-23, (E), 24:42393
  spectral redshifts of photons from, (E/T), 25:11665
  spectral redshifts of, (E), 24:27963
  spectral redshifts of, (E), 24:42408
  spectral redshifts of, (T), 24:23689
  spectral redshifts of, (T), 24:28060
  spectral redshifts of, (T), 24:42416
  spectral redshifts of, (T), 25:35810
  spectral redshifts of, (T), 25:58666
  spectral redshifts of, absorption and emission, (E), 23:30245
  spectral redshifts of, absorption and emission, (E), 25:38081
  spectral redshifts of, absorption and emission, (T), 24:1155
  spectral redshifts of, apparent periodicities in, (T), 24:17494
  spectral redshifts of, behind clusters of galaxies, (T), 24:27965
  spectral redshifts of, distribution of, (T), 23:41887
  spectral redshifts of, estimates for, (E), 25:24725
  spectral redshifts of, frequency distribution of, (E/T), 24:23623
  spectral redshifts of, in direction of rich clusters of galaxies, (E), 24:4969
  spectral redshifts of, opposite radio sources, (T), 23:51352
  spectral redshifts of, origin of, (T), 23:51260
  spectral redshifts of, periodic clustering of, (E), 24:4933
  spectral redshifts of, possible discretization of, (E), 25:45232
  spectral redshifts of, selection effects in measurement of, (E/T), 25:58567
  spectral shift of neutral hydrogen in PKS 1116 + 12 and 3C 191, (E), 24:27987
  spectral-energy distributions of, (T), 22:8960
  spectrographic observations of, (E), 22:7106
  spectrophotometry of 4C 05.34, photoelectric, (E), 24:37072
  spectrophotometry of, (E), 25:9074
  spectroscopic observations of twenty, (E), 21:16754
  spectroscopic study of five candidates from Tontantzintla blue stars, (E), 23:14496
  spectroscopy of Ton 202, (E), 24:51317
  spectrum and absolute magnitude of, (T), 22:903
  spectrum at millimeter wavelengths of 3C 273, (T), 21:31125
  spectrum of 3C 191, absorption, (T), 21:13321
  spectrum of 3C 191, interpretation of absorption, (T), 21:3614
  spectrum of 3C 273, emission-line, (E), 21:31126
  spectrum of 3C 273, radio, 21:13340
  spectrum of 3C 273, search for 90α recombination line of atomic hydrogen in emission, (E), 22:13162
  spectrum of 3C9, absorption, (E/T), 21:9283
  spectrum of PHL 5200, (E/T), 21:13324
  spectrum of PHL 5200, absorption-line, (E), 22:29031
  spectrum of PHL 938, absorption-line, (E), 22:36639
  spectrum of PKS 0237-13, method for identifying absorption lines in, (E), 22:43789
  spectrum of PKS 0237-23, (E), 22:45913
  spectrum of PKS 0237-23, absorption-line, (E), 22:43790
  spectrum of PKS 0237-23, absorption-line, (E), 22:36639
  spectrum of PKS0237-23, absorption, (E), 21:16755
  spectrum of PKS0237-23, absorption-line, (E), 21:16756
  spectrum of Ton 1530, absorption-line, (E), 22:36639
  spectrum of, nature of standard absorption, (T), 22:794
  spectrum of, strong emission lines in, (T), 22:21800
  stability of ionized atmospheres of, (T), 25:11585
  stability of supermassive disks against fragmentation, (T), 25:52532
  stability of, in post-Newtonian approximation, collisionless, 24:23699
  star clusters in, stability of relativistic spherically symmetric, (T), 24:17458
  structure and evolution of, model for, (T), 23:25067
  structure at 1425 MHz, east—west radio, (E), 22:2757
  structure in optical image of 3C 287, (E), 22:36682
  structure of 127, angular, (E), 25:45219
  structure of 3C 245 and MSH 14-121, (E), 25:49628
  structure of 3C 273 and 3C 279 revealed by long-baseline interferometry, (E), 25:30130
  structure of 3C 273, angular, (E), 24:19617
  structure of 3C 279 and 3C 273, rapid variations of, (E), 25:43049
  structure of 3C 279, (E), 25:32954
  structure of 3C 446, model of, (T), 21:20676
  structure of 3C 9, at 408 and 2695 MHz, (E), 24:19616
  structure of radio-emitting regions of, high-resolution interferometry of, (E), 22:49880
  structure of uniformly rotating relativistic thin disks, (T), 25:22254
  structure of, (T), 22:29107
  structure of, (T), 21:36987
  structure of, high-resolution observations at 6 and 18 cm of small-scale, (E), 25:52553
  structure of, relativistic equations for, (T), 24:8258
  structure of, variational principle for, (T), 25:838
  synchrotron emission and reabsorption by, (T), 22:23912(T) (NASA-TT-F-521)
  synchrotron emission from, (T), 25:13936(R) (AD-711829)
  synchrotron emission from, (T), 23:16555 (N-68-33525)
  synchrotron optical depth effects in, (T), 25:52540
  synchrotron radiation from 3C 273B, (T), 22:5032
  synchrotron radiation from, theory of coherent, (T), 23:3206
  synchrotron radiation model for, optical, 24:46906
  theory of, 22:34132(R) (AD-661573)
  theory of, 21:33068
  theory of, 21:2011
  theory of, stability of quasi-static solutions for system of gravitational interacting masses in relativistic, 23:41889
  time changes in structure of optical image of 3C 287, (E), 22:49904
  Ton 1530, absorption red shifts of, (E), 23:22756
  ultraviolet background in, origin of, (T), 25:11654
  variability of, (T), 24:1155
  VRO 42 22 01, interferometric observations of properties of, (E), 23:34181
  x-ray emission from 3C 196, 3C 186, and 3C 380, upper limits for, (E), 24:17499
  x-ray emission from 3C 273, (E), 25:19458
  x-ray emission from 3C 273, (E), 25:24761
  x-ray emission from 3C 273, (T), 22:15306
  x-ray emission from 3C 273, detection of, (E), 24:37073
  x-ray emission from 3C 273, detection of, (E), 21:46046
  x-ray emission from 3C 273, detection of, (E), 22:19696
  x-ray emission from 3C 273, search for, (E), 22:11116
  x-ray emission from, (E), 25:49625 (N-71-23855)
  x-ray emission from, as the origin of diffuse x-ray background, (T), 23:18334

QUATERPHENYL
  effects as wave-length shifter on light output of argon and argon—nitrogen proportional scintillation detectors, 22:6609
  properties of derivatives of, for use as scintillators, 22:4188
  scintillation characteristics of, effects of zone refining on pulse height and pulse shape, 23:29170

p-QUATERPHENYL, 4,4'''-BIS(2-BUTYLOCTYLOXY)-
  light output of, in oxygen-free toluene solution, 22:40414
  scintillation decay time of, in oxygen-free toluene solution, 22:40414
  scintillation efficiency of, 23:2603

p-QUATERPHENYL, 3,3',3'',3'''-TETRAMETHYL-
  light output of, in oxygen-free toluene solution, 22:40414
  scintillation decay time of, in oxygen-free toluene solution, 22:40414

Quay Burst
    see Hardtack Operation-Phase II

QUEBEC
  radioactive materials abundance in crystalline rocks of Canadian Shield in northern, 21:25975
  thorium mineralization along north shore of Gulf of St. Lawrence, 24:33804
  uranium mineralization along north shore of Gulf of St. Lawrence, 24:33804

Queen Mary College Reactor
    see Reactors, Research

Queenie Analyzer
    see Scalers

QUENCHING CIRCUITS
  design and performance of Geiger—Mueller detector, 24:19206
  design for gas-discharge detectors in parallel, 22:36043
  design for spark chamber, 25:37643(P)
  design of quenching generator for time-of-flight mass spectrometer, 22:30889 (JUL-507-PC)
  design of solid-state, for G—M detectors, 25:29334
  design of two-transistor multivibrator, for Geiger-Mueller detectors, 24:490
  performance of Geiger—Mueller detector, 24:16863

Quercetagetin
    see Flavone, 3,3',4',5,6,7-Hexahydroxy-

QUERCETIN
  complexes with beryllium, titanium, and uranium, infrared study of structure of, 22:16493
  complexes with niobium, tantalum, and thorium, spectral studies on, 22:27680
  complexes with scandium, spectrophotometric studies on, 22:16503
  complexes with thorium, ir spectral studies on structure of, 23:28809
  effects on movement of calcium-45 in atria of guinea pigs, 23:6382
  use in fluorimetric determination of hafnium in presence of zirconium, 23:7446

QUERCITRIN
  complexes with thorium, ir spectral studies on structure of, 23:28809

Quercus
    see under Angiospermidae

QUINACRINE
  radioprotective effects of, on Escherichia coli, effects of oxygen abundance on uv, 21:24460
  radioprotective effects of, on mice and rats, 22:25863
  toxicity in Hymenolepsis microstoma, 21:36687(R) (ORO-1749-17)

QUINALDIC ACID
  complexes with rare earths, formation constants and solubility products of, 23:35067
  decarboxylation of, effects of carbon-13 on, 22:4109
  radiation effects on content of, in liver of rats, x, 22:19383
  chloroform—pyridine—quinaldic acid, solvent properties for vanadium-48 from deuteron-bombarded titanium, 24:31345

QUINALDIC ACID, 4,8-DIHYDROXY-
  content in urine of irradiated mice, role in radiation injury, 21:24621
  determination in urine by least-squares resolution of uv spectra, 22:44955 (ORNL-4232)
  radiation effects on urinary excretion of, in mice, effects of pyridoxine on, 21:24497
  radioinduced excretion of, in rats, effects of histamine, serotonin, and tryptophan on, 21:10778

QUINALDIC ACID, 4-HYDROXY-
  radiation effects on content of, in mice, x, 22:19383

QUINALDINE
  1-oxide, reactions with acetic anhydride, effects of deuterium on, 25:6320
  deuterium exchange reactions in alcoholic solutions of potassium ethylate, mechanism and rate constants for, 21:30415
  radioprotective effects of dithiocarbamates of, on mice, γ, 23:2858
  reactions of deuterium-labeled and normal, with acetic anhydride, mechanism and rate of, 22:37767
  reactions with acetic anhydride, effects of deuterium on, 22:27702
  reactions with acetic anhydride, effects of deuterium on, 23:137

Quinalizarin
    see Anthraquinone, 1,2,5,8-Tetrahydroxy-

QUINETHAZONE
  effects on production of uv-photosensitivity dermatitis, 21:20412

QUINHYDRONE
  radiolysis at 120°K by 0.3-GeV electrons, 22:25399

QUININE
  effects on calcium-45 movements in muscles of frogs, 22:14970
  fluorescence excitation spectra for, 21:21829(R) (NYO-3401-3)
  radiation effects on activity of, in leaves of tobacco, γ and x, 25:21966
  radioinduced fluorescence in, uv and x, 21:22358
  reactions in electrolysis of sulfuric and phosphoric acid solutions, chemiluminescence of products of, 21:10342
  sulfate, fluorescence decay measurement with, for luminescent dosimeters, 21:331
  sulfates, performance for dosimetry of ionizing radiation, 23:35529

2,2'-QUINOCARBOCYANINE CHLORIDE, 1,1-DIETHYL-
  properties as indicator in volumetric determination of thorium, 24:11448

QUINOLINE
    see also Cinchonine
    see also Strychnine
  carbon-14 distribution in irradiated, 21:25914
  complexes with nickel bromide and tetrabutylammonium bromide, structure of, crystal and molecular, 23:49771 (UCRL-18667, pp 255-76)
  complexes with uranium pentachloride, preparation, properties, and structure of, 24:50368 (CONF-690916-(Vol.2), pp 279-82)
  complexes with uranium, preparation of, 24:18937
  complexes with uranium(V) chloride, properties of, 25:29092
  complexes with uranyl ion, magnetic susceptibility and ir spectra of, 25:34612
  deuterium exchange between aromatic C—H bonds of, 21:35977
  deuterium exchange with hydrogen in, catalytic effects of group VIII metals on, 22:35819
  effects on extraction of copper-64 or zinc-65 by thenoyltrifluoroacetone, synergistic, 23:26342
  effects on extraction of europium(III)—TTA into carbon tetrachloride and chloroform, 21:32260
  effects on glycogen synthesis in liver of x-irradiated rats, 24:34078 (UR-49-1290)
  effects on γ-induced graft polymerization of acrylic acid with polyethylene terephthalate, 23:17451 (JAERI-5018, pp 15-21)
  radiolysis in methyltetrahydrofuran glasses or sec-butyl chloride at 77°K, yields of radical ions from γ, 25:37428
  reactions with copper complexes with 2,4-pentanedione, structure of adduct formed by, 21:34249(R) (COO-1654-1)
  solvent properties for copper, molybdenum, and vanadium, 22:16463
  solvent properties for molybdophosphoric acid, 23:384
  spectra in biphenyl or durene lattices at 4.2 and 77°K, polarized phosphorescence, 23:45169(R) (UCLA-34-P-91-25)
  spectra of halogenated derivatives of, in biphenyl or durene lattices at 4.2 and 77°K, polarized phosphorescence, 23:45169(R) (UCLA-34-P-91-25)
  spectra of, correlation of extended Huckel calculations of total electron densities with NMR, 25:4081
  use in treatment of polymorphous light eruption in man, 22:19446
  use of preparation of, as protective agent for rabbit eyes exposed to uv radiation, 21:1792

QUINOLINE, 8-AMINO-
  determination of, volumetric method for, 24:16539
  reactions with metals, effects of acetic acid, ammonia, hydrochloric acid, and sodium hydroxide solutions on, 24:16539

QUINOLINE, 2-CHLORO-
  dehalogenation in piperidine solvents, kinetics of deuterium isotope effects on, 23:2267

QUINOLINE, 4-CHLORO-
  dehalogenation in piperidine solvents, kinetics of deuterium isotope effects on, 23:2267

QUINOLINE, 8-CHLORO-
  spectra in excited triplet state, optically detected ESR, 25:26137 (UCRL-20390)
  spectra of chlorine-35, chlorine-37, and nitrogen-14 in, ENDOR and ESR, 24:22658

QUINOLINE, 2,4-DIMETHYL-
  deuterium exchange reactions in alcoholic solutions of potassium ethylate, mechanism and rate constants for, 21:30415

QUINOLINE, 2,6-DIMETHYL-
  1-oxide, reactions with acetic anhydride, effects of deuterium on, 25:6320
  deuterium exchange reactions in alcoholic solutions of potassium ethylate, mechanism and rate constants for, 21:30415
  oxide, reactions with acetic anhydride, effects of deuterium on, 23:137

QUINOLINE, 7-CHLORO-4-[[4-(DIMETHYLAMINO)-1-METHYLBUTYL]AMINO]-
  radioprotective effects in uv-irradiated rat tissues, 21:16400
QUINOLINE, 4- 3-(DIMETHYLAMINO)PROPYL AMINO-7-IODO-
  use of iodine-125- and iodine-131-labeled, for localization of melanomas, evaluation of, in mice and rats, 22:10820
  use of iodine-125-labeled, for localization of melanomas in mice, 23:50677
  use of iodine-125-labeled, for scanning of malignant melanomas in hamsters, 23:38639
QUINOLINE, 2-FLUORO-
  dehalogenation in piperidine solvents, kinetics of deuterium isotope effects on, 23:2267
QUINOLINE, 4-FLUORO-
  dehalogenation in piperidine solvents, kinetics of deuterium isotope effects on, 23:2267
Quinoline, 8-Hydroxy-
    see 8-Quinolinol
Quinoline, 7-Iodo-4-[[4-(diethylamino)-1-methylbutyl] amino]-
    see Iodoquine
Quinoline, 2-Methyl-
    see Quinaldine
Quinoline, 4-Methyl-
    see Lepidine
QUINOLINE, 6-METHYL-
  1-oxide, deuterium exchange reactions in alcoholic methylamine solutions of iodine methylates of, mechanism and rate constants for, 21:30415
  deuterium exchange reactions in alcoholic solutions of potassium ethylate, mechanism and rate constants for, 21:30415
QUINOLINE, 8-METHYL-
  deuterium exchange reactions in alcoholic solutions of potassium ethylate, mechanism and rate constants for, 21:30415
QUINOLINE, 4-NITRO-
  1-oxide, use for rat tumor induction, 21:24457
QUINOLINE, 4-NITRO-, 1-OXIDE
  effects of carbon-14-labeled, on colony formation, DNA, proteins, and RNA of cultured cells, 25:8746
  effects on DNA in cultured mammalian cells, repair processes following carcinogenic, 25:8611
  effects on mice, combined effects of strontium-90 and yttrium-90 on carcinogenic β, 22:49588
QUINOLINE-1-OXIDE
  complexes with thorium, titanyl, and zirconyl perchlorates, physicochemical properties and structure of, 23:33199
  complexes with uranyl chloride, elastic conductivity in various organic solvents, 23:35124
8-QUINOLINECARBOXYLIC ACID
  complexes with rare earths, formation constants for, 23:35067
5-QUINOLINESULFONIC ACID, 8-HYDROXY-
  complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
  complexes with neptunium, preparation and stability of, 22:16541
  complexes with plutonium, preparation and stability of, 22:16541
  complexes with uranium and EDTA or NTA, formation of, 21:27962
  properties as chelating agent in polarographic determination of molybdenum, 23:24079
  properties as secondary ligand in uranium(IV) chelates, 21:35978
5-QUINOLINESULFONIC ACID, 8-HYDROXY-7-IODO-
  complexes with americium or curium, stability constants for, 25:23549 (IRCH-10/70-2)
  complexes with molybdenum, extraction into cyclohexanol of, 23:392
  complexes with neptunium, preparation and stability of, 22:16541
  complexes with plutonium, preparation and stability of, 22:16541
  complexes with rare earths, composition of, 23:6137
  complexes with thorium, ionization and stability constants of, 22:62
  properties as chelating agent in polarographic determination of molybdenum, 23:24079
  use for spectrophotometric determination of uranium, 21:35
  use in oscillopolarographic determination of molybdenum, uranium, and vanadium in acetic buffered solutions, 22:21035
  use in photometric determination of molybdenum, 23:392
5-QUINOLINESULFONIC ACID, 8-HYDROXY-7-[(6-SULFO-2-NAPHTHYL)AZO]-
  use in spectrophotometric determination of scandium, 21:21890
8-QUINOLINETHIOL
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
  equilibrium constants for, extraction, 21:32139 (COO-676-1)
  extraction equilibrium constants for substituted, 21:32139 (COO-676-1)
  properties as complexing agent in absorptiometric determination of molybdenum in niobium or tantalum, 23:49697
  radioprotective effects of, on mice, x, 25:4553
  solvent properties for molybdenum from hydrochloric acid solutions, 23:9522
  solvent properties for rhenium and technetium, 23:43393
8-QUINOLINETHIOL, 2-METHYL-
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
8-QUINOLINOL
  carbon-14 exchange between aluminum, gallium, or indium tris-8-quinolinolato complexes and, 22:42677
  complexes of, with uranium, crystal structure of, 21:12404
  complexes with americium, curium, and plutonium, formation of, 22:33332
  complexes with californium, stability of, 25:18498 (KFK-1298)
  complexes with copper, precipitation from acetone—water solutions, effects of solvent on rate of, 24:13807(R) (ORO-2954-3)
  complexes with copper, radiation effects on copper-64 recoil atoms in, relation of crystalline polymorphism to thermal neutron, 23:31379
  complexes with hafnium, thorium, and zirconium tetrachlorides and zirconium tetrafluoride, 22:48857
  complexes with iridium and platinum, radiochemical separation based on extraction of, 25:31858
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
  complexes with metals, mass spectra of, 22:25344
  complexes with metals, solvent extraction and polarographic studies on, 22:50930
  complexes with methyl sulfoxide and thorium, x-ray diffraction studies on structure of, 24:25030
  complexes with neptunium, preparation and stability of, 22:16541
  complexes with niobium or tantalum, preparation and properties of, 22:50959
  complexes with plutonium, preparation and stability of, 22:16541
  complexes with promethium, stability of, 24:39033
  complexes with rare earths in presence of calcium, spectrophotometry of, 23:40548
  complexes with thorium and uranium, spectra of, proton NMR, 23:26248
  complexes with thorium, composition of, 24:36232
  complexes with thorium, crystal structure of, 22:42681
  complexes with thorium, structure of, 24:18977
  complexes with thorium, uranium, and other metals, structure of, NMR spectral studies on, 25:4081
  complexes with thorium(IV), structure of adduct from, 25:2157
  complexes with titanium, precipitation with hafnium, tin, titanium, tungsten, and zirconium, tracer studies on, 23:28853
  complexes with uranium chlorides, preparation and physical properties of, 25:6327
  complexes with uranium in chloroform, absorption spectra and solubility of, 23:17445
  complexes with uranium, distribution between 1-decanol and nitromethane, effects of water on, 23:4599
  complexes with uranium, distribution between chloroform and perchloric acid, 23:40828
  complexes with uranium, infrared spectra of, 22:4090
  complexes with uranium, preparation, composition, and nonstoichiometry of, 22:35827
  complexes with uranium, reactions with 1,2-dichloroethane, DMSO, 1,4-dioxane, and ethanol, mechanism and spectra of, 24:41307
  complexes with uranium, thermal conversion of, to bis(8-hydroxyquinolinato)dioxouranium(VI), 22:35827
  complexes with uranium, thermodynamic properties of, 25:10581
  complexes with uranium(VI), structure of, 22:18768
  complexes with uranyl ion, magnetic susceptibility and ir spectra of, 25:34612
  complexes with uranyl ions, molecular structure and ir spectra of, 25:37402
  complexes with uranyl ions, polarographic studies in nonaqueous solvents of, 23:21724
  complexes with uranyl ions, solubility of, in organic solvents, 22:12298
  complexes with zinc in chloroform, formation constants for pyridine adducts of, 21:32139 (COO-676-1)
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
  complexes with zinc, spectra of, solvent effects on, 21:32139 (COO-676-1)
  compounds with thorium and uranium, thermal reactions of adduct, 24:38811
  compounds with thorium, preparation of, 22:2059
  determination by titration with calcium-45-labeled calcium chloride solutions and β counting, 24:31245
  effects on cobalt-60 uptake by liver cells, 21:20079
  effects on coprecipitation of molybdenum with chromium, tungsten, and uranium, 22:48858
  effects on inactivation of spores of Bacillus subtilis, combined effects of heat, radiation, and, 25:24469
  effects on repair processes following γ-radioinduced chromosome aberrations in Nigella damascena seeds, 25:18951
  effects on zinc-65 uptake by liver cells, 21:20079
  precipitation of metallic ions by, in ethylenedinitrilotetraacetic acid, 21:1342
  radioprotective effects of, on chromosomes of Nigella damascena, cobalt-60 γ, 24:2714
  reactions with niobium or tantalum pentabromide or pentachloride, properties and spectra of compounds formed by, 24:22632
  reactions with picolinic acid and uranium, thermal decomposition and solubility of chelates from, 22:16513
  solvent properties for actinium, protactinium, and radium, 21:43038
  solvent properties for alkaline earth metals, 23:47594
  solvent properties for aluminum, 22:8004
  solvent properties for californium, 24:278
  solvent properties for molybdenum, 24:27021
  solvent properties for molybdenum from hydrochloric acid solutions, 23:9522
  solvent properties for rhenium and technetium, 23:43393
  solvent properties for uranium, 23:40828
  solvent properties for uranium, 23:15802
  solvent properties for uranium(VI) for separation from zirconium, thorium, and rare earths, 23:21622
  solvent properties for various metal ions, relation between composition of complex and optimal acidity of its extraction, 21:30522
  solvent properties for zinc with 1,10-phenanthroline in presence of sodium perchlorate, 21:32139 (COO-676-1)
  solvent properties of chloroform solutions of, for niobium and tantalum in aqueous tartaric acid solutions, 24:44083
  solvent properties of, for actinium, curium, americium, curium, protactinium, and radium, 21:10417 (KFK-432)
  solvent properties of, for alkaline earth metals, 21:15974 (UJV-1573)
  solvent properties of, for niobium and zirconium, 21:6004
  solvent properties of, for vanadium, 21:5762 (RISO-138)
  spectra of, correlation of extended Huckel calculations of total electron densities with NMR, 25:4081
  use in extraction—photometric determination of lanthanum, 22:33217
  use in photometric determination of thorium and uranium, 21:34225
  use in separation of niobium from tantalum, 22:4038
  use in spectrophotometric determination of uranium, 23:26164
  use of, for strontium—yttrium separations in biological materials, 21:2943
  uses of, for determination of rare earths by radiometric titration, 21:8207
  1 4,7-dimethyl-1,10-phenanthroline—8-quinolinol, solvent properties for zinc in presence of sodium perchlorate, 21:32139 (COO-676-1)
8-QUINOLINOL, 5-ACETYL-
  complexes with thorium, crystal structure of, 22:42681
8-QUINOLINOL, 5-BROMO-
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
8-QUINOLINOL, 5-CHLORO-
  complexes with uranium, infrared spectra of, 22:4090
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
8-QUINOLINOL, 7-CHLORO-
  complexes with uranium, infrared spectra of, 22:4090
8-QUINOLINOL, 5-CHLORO-7-IODO-
  determination by titration with calcium-45-labeled calcium chloride solutions and β counting, 24:31245
8-QUINOLINOL, 5,7-DIBROMO-
  complexes with hexavalent uranium, structure of product precipitated from aqueous acetone solutions of, 25:18374
  complexes with rare earths or yttrium and rhodamine C, separation of, by solvent extraction using benzene, 23:47384
  solvent properties for actinium, americium, curium, protactinium, and radium, 21:10417 (KFK-432)
  solvent properties for molybdenum from hydrochloric acid solutions, 23:9522
  solvent properties for rhenium and technetium, 23:43393
  use in determination of aluminum and cadmium by neutron activation, 21:35906
  use in extraction-fluorimetric determination of yttrium in lanthanum, 21:45057
8-QUINOLINOL, 5,7-DICHLORO-
  complexes with californium, stability of, 24:278
  complexes with californium, stability of, 25:18498 (KFK-1298)
  complexes with hexavalent uranium, structure of product precipitated from aqueous acetone solutions of, 25:18374
  complexes with neodymium in pentyl acetate, distribution study of, 21:59
  complexes with scandium, fluorometric determination method based on, 23:33141
  effects on distribution of trivalent europium in chloroform—perchloric acid—TBP systems, 21:32260
  solvent properties for actinium and lanthanum, 23:26345
  solvent properties for actinium, americium, curium, protactinium, and radium, 21:10417 (KFK-432)
  solvent properties for californium, 24:278
8-QUINOLINOL, 5,7-DICHLORO-3-METHYL-
  determination by titration with calcium-45-labeled calcium chloride solutions and β counting, 24:31245
8-QUINOLINOL, 5,7-DIIODO-
  complexes with metals, formation constants of, 25:26214
8-QUINOLINOL, 5-IODO-
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
8-QUINOLINOL, 2-METHYL-
  complexes with aluminum hydroxide, structure of monocrystals of, 21:34249(R) (COO-1654-1)
  complexes with aluminum, gallium, and indium, properties and structure of, spectral studies on, 21:34249(R) (COO-1654-1)
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
  complexes with zinc in chloroform, formation constants for pyridine adducts of, 21:32139 (COO-676-1)
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
  complexes with zinc, spectra of, solvent effects on, 21:32139 (COO-676-1)
  solvent properties for molybdenum from hydrochloric acid solutions, 23:9522
  solvent properties for rhenium and technetium, 23:43393
  use in photometric determination of thorium and uranium, 21:34225
  use in spectrophotometric determination of aluminum, 21:25773 (UJV-1681)
8-QUINOLINOL, 3-METHYL-
  determination by titration with calcium-45-labeled calcium chloride solutions and β counting, 24:31245

8-QUINOLINOL, 4-METHYL-
  complexes with metals, formation constants and thermodynamics of, 21:32139 (COO-676-1)
  complexes with zinc in chloroform, formation constants for pyridine adducts of, 21:32139 (COO-676-1)
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
  complexes with zinc, spectra of, solvent effects on, 21:32139 (COO-676-1)
8-QUINOLINOL, 5-METHYL-
  complexes with uranium, infrared spectra of, 22:4090
8-QUINOLINOL, 7-METHYL-
  complexes with thorium, crystal structure of, 22:42681
  complexes with uranium, infrared spectra of, 22:4090
8-QUINOLINOL, 5-NITRO-
  complexes with thorium, crystal structure of, 22:42681
  complexes with uranium, infrared spectra of, 22:4090
  complexes with zinc, equilibrium constants for, 21:32139 (COO-676-1)
8-QUINOLINOL, 7-NITRO-
  complexes with uranium, infrared spectra of, 22:4090
8-QUINOLINOL, 5-PHENYL-
  complexes with thorium, crystal structure of, 22:42681
  complexes with uranium, infrared spectra of, 22:4090
8-QUINOLINOL, 7-PHENYL-
  complexes with thorium, crystal structure of, 22:42681
  complexes with uranium, infrared spectra of, 22:4090
4(1H)-QUINOLONE, 2,3-DIHYDRO-1-(p-TOLYSULFONYL)-
  deuterium exchange between trifluoroacetic acid and, NMR studies on, 23:9400
4(2H)-QUINOLONE, 1,2,3,4-TETRAHYDRO-2-METHYL-
  deuterium exchange between trifluoroacetic acid and, NMR studies on, 23:9400
QUINONES
  analysis of, by electron pyrolysis, 21:2939
  content of adrenal glands of animals in relation to radiosensitivity, 22:19269
  effects of, formed during irradiation of cotton seedlings, 21:10743
  effects on chromosomes in onion root cells, aberrant, 24:7807
  effects on erythrocytes, radiomimetic, 21:36502
  effects on radioinduced grafting of ethylenically unsaturated organic acids or their salts to polyamides, polyurethans, polyureas, or polysulfonamides, 24:16603(P)
  electrophilic character of, in radiosensitive plants, 21:6719
  movement of, from irradiated to shielded parts of plants, 21:10743
  radiation effects on content of, in bone marrow and liver of rats, methods for detection of, 22:49512
  radiation effects on content of, in guinea pigs and rats in relation to development of radiation sickness, 23:17919
  radiation effects on content of, in rats, γ, 21:36522
  radiation effects on content of, in seedlings and seeds, 21:36523
  radiation effects on content of, in tumors, effects of phenol and quinonoid compounds on, 24:34411
  radiation effects on lips-, of spinach chloroplasts, uv, 23:50337
  radiation effects on photoreactions in, isolated from green algae, uv, 22:4699(R) (RLO-1783-13)
  radiation effects on production of, in rat liver, chronic strontium-90 β, 25:29639
  radiation effects on, of chloroplasts, uv, 23:7933(R) (RLO-1783-18)
  radioinduced formation of toxic, mechanism and identification of, 21:36745
  radioinduced, in cotton seeds, γ, 22:6733
  radioinduced, in potatoes, effects of, on plant growth, 24:32270
  reactions with chlorophyll in alcohol solvents, flash photolysis studies of, 25:31687 (COO-908-34)
  use of aromatic conjugated, as age retarders in crosslinked polyolefins, 21:5972(P)
QUINONOID COMPOUNDS
  effects on quinone content of irradiated tumors, 24:34411
2-QUINOXALINECARBOSYLIC ACID
  complexes with rare earths, formation constants for, 23:35067
p-QUINQUEPHENYL, 3,3''''-BIS(3-ETHYLHEPTYL)-
  light output of, in oxygen-free toluene solution, 22:40414
  scintillation decay time of, in oxygen-free toluene solution, 22:40414
QUINUCLIDINE
  electron reactions at 0 to 30 eV with, excitation spectra from, (E), 23:34276 (NP-17938)
  enthalpies of combustion and formation and strain energy for, 21:34248 (COO-1149-92)
  entropy of globular molecules of, standard zero point, 24:7424(R) (COO-1149-157)
  preparation and fragmentation of halogenated, 25:46393(T) (ORNL-tr-2505)
  radioprotective effects of derivatives of, on mice, x, 23:2859
  thermodynamic properties of, at low temperatures, 21:10303(R) (COO-1149-79)

R

R-O
    see Swedish Reactors (R-0)
R-1 Reactor
    see Initial Engine Test
R-1 Reactor (Sweden)
    see SLEEP Reactor
R-2 Reactor (Sweden)
    see Swedish Reactors (R-2)
R-2 Reactor (Poland)
    see Reactors, Research
R-3 Reactor (Sweden)
    see Swedish Reactors (R-3)
RA-3 Reactor (Argentina)
    see Reactors, Research
RA (Heavy water reactor-Vinca)
    see Reactors, Research
RABBITS
  adrenal steroid secretion by, effects of population-dependent factors on, 22:25208(R) (COO-1446-2)
  albumin circulation in brain of, cinemicroscopic study of labeled, 21:20236 (UCLA-12-612, pp 37-68)
  analysis of organs of, for mercury by neutron activation, 25:31881
  antibacterial proteins in leukocyte lysosomes of, determination of, 22:20998(R) (ORO-3628-1)
  antibodies in blood serum of, determination of, 22:19233(R) (COO-209-144)
  antibodies in, characterization of new set in, 21:16261(R) (EUR-3059.f)
  antibody synthesis by lymph node and spleen cells of, 21:39325(R) (NYO-3557-2)
  antigenicity of x-irradiated liver fluids from, in homologous animals, 21:425
  antigens in kidneys of, determination of turnover rate for chronic serum sickness nephritis, 23:50370(R) (SAN-410-88)
  arsenic-76 distribution and excretion in chinchilla, following intravenous injection, effects of syphilis infection on,, 25:35087
  ATPase molecular size in muscles of, estimation of, using radiation inactivation, 22:51411
  autoantibodies in sensitized, methods for determination of, 22:51430
  autoradiography of thyroid gland of, use of iodine-125 and iodine-131 for, 22:30969
  binding of gold-198 colloids to serum proteins in, methods for determining, 23:50263
  blood cell counts in progeny of chronically irradiated, effects of trauma on, 24:34670
  blood circulation in bones of, effects of immobilization on, 23:2785
  blood circulation in conscious, methods for xenon-133 scanning of cerebral, 25:11194
  blood coagulation in Thorotrast-treated, effects of phospholipids on, 21:22349
  blood coagulation in, effects of Thorotrast on, 21:16281
  blood flow in bones of, use of strontium-85-labeled plastic microspheres for measurement of, 25:26577
  blood plasma of, use of iron-59 for determining erythropoietin levels in, 21:14575
  blood platelets from, effects of trypsin on ribosomes of, 21:22231 (ACRH-26, pp 106-14)
  blood pressure changes in, following injections of cysteamine or cystamine, 21:10903
  body composition of, relation of potassium to, 22:21460(R) (COO-1171-82)
  bone growth and peripheral circulation in, use of iodine-131-labeled serum albumin and scintillation counters for assessing, 23:50239
  bone transplantation in, ESR evaluation of resorption rate following γ-radiosterilized, 25:11340
  brain of, role of neuroglia in, effects of electromagnetic fields on, 21:36741
  calcium distribution in blood plasma and bone in, tracer study, 22:30999
  calcium exchange between bones and blood of, 21:36524
  calcium metabolism in bones of, 21:26328 (ANL-7220, pp 68-80)
  calcium metabolism in, in comparison to man, 21:45561
  calcium-45 transport into cornea of, effects of blocking ciliary arteries on, 23:20092
  calcium-45-labeled calcium chloride penetration into aqueous and corneas of eyes of, effects of alloxan on, 25:15996
  candidiosis development in, effects of alloxan-induced diabetes on,, 22:8605
  carcinogenesis in bones of, effects of beryllium oxide on, 21:10806
  cerium-144 metabolism in, during induction of lung cancer, 23:22161(T) (AEC-tr-6944, pp 91-8)
  cesium-134 uptake by fetuses of, 22:38427(R) (ORO-659)
  cesium-137 content of muscles of, in Poland during 1965 and 1966, 23:50465
  cesium-137 distribution in amniotic fluid, embryos, organs, and placenta of pregnant, 25:16024
  cesium-137 metabolism by, effects of removal of sympathetic node on, 23:22171(T) (AEC-tr-6944, pp 178-82)
  chromium-51 toxicity to erythrocytes in, 22:51308 (ORAU-106, pp 171-93)
  corpora lutea in pregnant, effects of estrogens on, 21:26608
  creatinine clearance from kidneys of, effects of uranyl acetate on, 22:14911(R) (COO-1691-1)
  dermatotoxic serum of, effects of, on skin of γ-irradiated guinea pigs, 22:30943
  development of fetal and neonatal, effects of maternal ingestion or intratracheal injection of uranium oxide on, 25:4446
  ecology of snowshoe hares in Minnesota, 21:1724(R) (COO-1332-25)
  effects of grazing by, on herbaceous recolonization in γ-irradiated oak-pine forest, 21:11136
  electrical activity of brain cortex of, effects of radio waves on, 24:34673
  electromagnetic field effects on nucleic acid content of viscera in, 23:50839
  electroretinography of, effects of cysteamine on, 23:16349
  endotoxin phagocytosis in, effects of ethyl palmitate and Thorotrast on, 22:12773
  enteric diseases of, 21:8913 (ORNL-3999, pp 99-111)
  erythropoiesis in anemic, preparation and purification of factor for stimulation of, 22:6213(R) (NYO-3795-1)
  erythropoiesis in, effects of erythropoietin and testosterone on, 22:23413(R) (ORO-3547-6)
  fallout uptake from atmosphere by, in Japan, effects of nuclear explosions in China on, 21:39432
  fatty acid fraction from liver of, after whole-body x irradiation, effects of, on proliferation of Saccharomyces carlsbergenesis, 21:22254
  fatty acid synthesis in lung tissues of, mechanism of, 21:22772
  fission product metabolism in, unseparated uranium, 22:8473
  fission product uptake by, exposed to fallout from Kiwi-A reactor, 21:16342 (UCLA-12-615)
  fluoride content in plasma of, following acute oral doses of sodium fluoride, 22:16375 (UR-49-891)
  function of kidneys in, effects of uranyl acetate on, 23:2764
  gallium-72-labeled hydrous ferric oxide colloids in, distribution of, 22:51307 (ORAU-106, pp 105-34)
  gold-198 clearance in blood of, effects of plasma-injections on, 21:17963
  gold-198 distribution in knee joints of, following intra-articular injection, 23:20273
  gold-198 distribution in, transport mechanisms for colloidal, 24:4552
  gold-198 phagocytosis in, effects of ethyl palmitate and Thorotrast on, 22:12773
  gold-198 phagocytosis in, effects of size of particles on colloidal, 22:38469
  gold-198 sorption by cerebrospinal fluid through nasal mucous membrane in, 24:50691
  gold-198 uptake by liver and spleen of, following clearance from reticulo-endothelial system, effects of blocking drug on, 24:34056
  gold-198 uptake by organs in, effects of DDT induced plasmocytosis on, 21:8709
  gold-198-labeled gold chloride in blood of, clearance of, 21:17963
  gold-198-labeled polystyrene particles in lung of, clearance of, 21:32596
  heart excitability in, combined effects of AET and atropine or vagotomy on, 24:7935
  heart of, effects of strontium on conduction and excitability of isolated, 21:12784
  hematology of, effects of cobalt on erythropoiesis, 21:10733
  hematopoietic system of lethally irradiated, effects of bone marrow transplants on, 21:16401
  hematoporphyrin accumulation in intraocular melanomas of, x-radiosensitizing effects of, 21:10989
  immune reaction to x-irradiated corneal grafts in, 22:51395
  immune reactions against bovine serum albumin, tracer studies of effects of chronic arthritis on, 23:38394
  immune reactions against sheep liver fluke following infection with non-irradiated and x-irradiated metacercariae, 24:50786
  immune reactions in, effects of 6-mercaptopurine on, 21:34572
  immune reactions in, effects of acriflavin on, 21:34572
  immune reactions in, effects of biological stress on, 21:39320(R) (AD-632250)
  immune reactions in, effects of cobalt-60 and iodine-131 on, 21:22757
  immune reactions in, inhibition of, by 6-mercaptopurine, 21:43343
  immune reactions in, to allogenic tissue transplants, 21:11061
  immune reactions of, to irradiated dog or human nerves in, 24:34168
  immune reactions to vaccina viruses and vesicular stomatitis viruses, 23:29395 (ORO-3511-11)
  immune response to silver-labeled human serum albumins antigens, 21:22278
  immunization against strongyloidiasis with x-irradiated Strongyloides larvae, 24:44646
  immunization of, against smallpox, effects of vaccine prepared from γ-irradiated virus on, 21:16271
  immunoglobulin and immunoglobulin subunit distribution in lymph nodes of, iodine-125 tracer study of, 23:26645
  immunoglobulin and subunit retention in footpads and lymph nodes of, iodine-125 tracer study of, 23:26644
  indium-113m uptake by bone marrow of, following injection as colloid, 25:18994
  indium-114 distribution in organs of, measurements using whole-body counters, 25:6626
  inflammation of wounded eyes in, effects of typhoid vaccine on course of, 23:50862
  injuries to central nervous system of, following prenatal radiation, 21:24538 (CONF-631008, pp 37-47)
  insulin clearance from kidneys of, effects of uranyl acetate on, 22:14911(R) (COO-1691-1)
  iodine metabolism in embryos of, 21:10780
  iodine transfer from maternal to fetus in, use of iodine-125 for determination of, 21:20321(R) (ORO-653)
  iodine-125 uptake by fetuses of, 22:38427(R) (ORO-659)
  iodine-131 absorption from lingual mucosa of, rate of, 23:17924
  iodine-131 binding by proteins of, in heart muscle, 21:8699
  iodine-131 clearance from bone of, 21:24343
  iodine-131 clearance from, effects of local anesthetics and adrenaline or noradrenaline on, 23:35627
  iodine-131 content of blood of pregnant, in comparison to that of fetuses, 22:10700
  iodine-131 exchange between fetal and maternal, during pregnancy, 22:10687
  iodine-131 labeled endotoxin uptake by, effects of carbon, Thorotrast, and Trypan blue on, 21:10732
  iodine-131 metabolism by, effects of properties of labeled compounds on, 23:22170(T) (AEC-tr-6944, pp 165-77)
  iodine-131 metabolism in, 22:33778 (UCLA-12-640, pp 45-60)

iodine-131 metabolism in liver of, 22:6722
iodine-131 release from cerebral cortical and dural surface of brain in, following intravenous administration, 23:50283
iodine-131 retention by blood plasma of, effects of diet and content of copper or molybdate ions on, 24:48389
iodine-131 storage by organs of fetuses of, 22:10686
iodine-131 uptake by fetuses of, 22:38427(R) (ORO-659)
iodine-131 uptake by thyroid gland of, effects of ultrasound on, 22:437
iodine-131 uptake by thyroid gland of, effects of chloroform narcosis on, 24:2558
iodine-131-labeled albumin distribution in heart and lungs of, 22:12794
iron metabolism in, poisoned with lead acetate, 21:6464
iron-59 clearance from inflamed and normal knee joints of, following injection of labeled erythrocytes, autoradiography of, 24:41749
iron-59 distribution in tissues of, 22:21450
iron-59 metabolism in, effects of chronic gastrointestinal bleeding on, 22:51308 (ORAU-106, pp 171-93)
iron-59 metabolism in, effects of pregnancy on, 21:36531
iron-59 toxicity in, 22:21599
iron-59 uptake by immature and mature erythrocytes in, effects of blood serum and glucose on, 24:39423
iron-59 uptake by reticulocytes in, effects of drugs, elements, and ions on, 24:39423
iron-59-labeled iron chloride metabolism in, following chronic oral administration, 22:21452
isotope elimination from, use of osmotic diuresis for barium, cesium, iodine, and strontium, 23:22181(T) (AEC-tr-6944, pp 651-6)
kidney epithelium permeability in, effects of uranyl acetate on tubular, 22:14911(R) (COO-1691-1)
kidney function in, comparison of metastable technetium-99-labeled Fe-ascorbic acid complex and pertechnetate for, 24:25528
kidney functions in, effects of chronic radiation sickness on, 22:8576
krypton-85 clearance from kidneys of, 22:4575
lactoferrin content of secondary granules of heterophil leukocytes in, use of autoradiography for measuring, 24:41726
lead-210 uptake by hair of, factors affecting, 22:455
leukocyte phagocytic activity of, effects of cystamine on, 22:25886
leukopenia induced in, by toxins extracted from x-irradiated blood cells, 22:19437
lipoprotein synthesis in effects of mutants of Shope papilloma virus on, 22:28289 (ORNL-4100, pp 178-201)
mercury-203 retention by brain of, effects of administration route on, 24:2560
metabolism in bones of, effects of plutonium-239 on calcium and phosphorus, 21:34593
metabolism of Thorotrast in, 23:6432(T) (ANL-Trans-672)
muscle relaxation in irradiated, effects of curarizing drugs on, 21:4848
nitrogen content of blood of, following administration of mercuric chloride and uranium, 25:58099
ova insemination in, by x irradiated sperm, 21:22709
pancreatic scanning in, use of selenium-75-selenomethionine for, 21:32716
paraminohippurate transport in kidneys of, effects of uranyl acetate on, 22:14911(R) (COO-1691-1)
pathogenesis of Fasciola hepatica infections in, use of chromium-51, iodine-131, and niobium-95 for determining, 24:11921
pathophysiology of infection with irradiated metacercariae of Fasciola hepatica, chromium-51 tracer studies on, 25:24310
phosphorous-32 distribution in, from labeled chromic hydroxide colloid in, after interstitial injection, 21:24345
phosphorus-32 diffusion through tissues of, effects of traumatic shock on, 23:22192
phosphorus-32 distribution in organs of, following endoarterial introduction in labeled resin microspheres, 22:28609
phosphorus-32 distribution in, after intraportal injection, 21:6449
phosphorus-32-labeled chromic phosphate distribution in bone, liver, and spinal cord of, 21:10925
placental development in, use of sulfur-35 for studying, 24:25351
plasma aldosterone in, radioimmunoassay of, 25:21536
plutonium inhalation by, chemical composition of blood following pneumosclerotic changes after, 23:48208
plutonium metabolism in lungs of, following inhalation, 23:4869
plutonium metabolism in, after intramuscular or intravenous injection, 23:38406
plutonium metabolism in, review of monomeric and polymeric, 25:51969 (CONF-711001-(Vol.2), pp 551-9)
plutonium uptake by surfaces of bones of, 21:20190
plutonium-239 distribution in bone marrow and bone surfaces of, following intramuscular and intravenous injection of plutonium nitrates, 25:16015
plutonium-239 distribution in bone marrow and on bone surfaces in, following injection, effects of age and injection route on, 23:38422
plutonium-239 distribution in, following inhalation in oxide aerosols, role of pulmonary macrophages in, 25:18891(T) (LF-tr-46)
plutonium-239 distribution in, in relation to plants and soils, 24:4590 (UCLA-12-754)
plutonium-239 incorporation in hair of, effects of dose on rate of, 25:55116
plutonium-239 metabolism following sorption through intact skin of, 23:22162(T) (AEC-tr-6944, pp 99-105)
plutonium-239 retention in bone and lung tissues of, fallout, 25:4478
plutonium-239 uptake by bone marrow of, 22:10736
plutonium-239 uptake by bones of, effects of, on content of DNA and RNA, 22:25971
polonium-210 metabolism in, following subcutaneous injection in comparison to dogs and rats, 24:7722
population dynamics of Lepus californicus, in Utah, 22:1918(R) (COO-1329-6)
preparation of natural radiomimetics from liver of, following γ irradiation, 21:22743
protection against combined γ irradiation and uranyl nitrate administration, use of Ca-EDTA or cysteine for, 21:24470
radiation burn of retina in, evaluation of capabilities of nuclear weapons on, 21:8717
radiation dose effects on immune reactions of, to injected mouse embryo liver cells, x, 21:11027
radiation dose in hearts and lungs of, development of miniature lithium fluoride thermoluminescent dosimeters for determining x, 21:1657
radiation dose to bones of, following intramuscular or intravenous administration of plutonium nitrate, α and γ, 23:31761
radiation dose to ear of, determination of integral absorbed strontium-90-yttrium-90 β, 22:45546
radiation dose to organs of, during ovarian sterilization, partial-body β, 25:46985
radiation dose to, effectiveness of blood plasma-quenching effect for measuring whole-body γ, 25:58017
radiation dose to, effects of, on mechanism of death, x, 22:8594 (CONF-670305-, pp 76-80)
radiation dose to, following injection of Thorotrast, methods for calculation of, at various time intervals, 23:6432(T) (ANL-Trans-672)
radiation dose to, following oral administration of zinc-65-labeled zinc chloride, 25:21572
radiation dose to, from strontium-90 deposited in bones, method of measurement of, 21:34673
radiation dosimetry in, following chronic oral administration of iron-59-labeled iron chloride, γ, 22:21452
radiation dosimetry in, method for nonuniform and uniform x, 23:24723
radiation dosimetry in, using surface tension of blood serum, x, 24:50924
radiation effect on brain of, x, 22:23621
radiation effects and distribution in synovia of, yttrium-90 β and γ, 23:45845
radiation effects from uranium nitrate on morphofunctional state of thyroid gland of, 25:35229
radiation effects on 7S and 19S antibody responses in, kinetics of x, 23:38512
radiation effects on absorption of INH by digestive tract of, 21:11077
radiation effects on absorptive capacity of knee joint of, effects of sympathetic nerves on microwave, 25:24347
radiation effects on acid phosphatase activity in alveolar macrophages of, following inhalation of plutonium-239-oxides, α and γ, 24:50706 (CEA-R-3978)
radiation effects on acid phosphatase content of eyes of, 23:22245
radiation effects on acid- and alkaline phosphatase activity in blood and bone tissue of, plutonium-239 α, 22:23454
radiation effects on activation of amino acids by sRNA-aminoacyl synthetases in brain of, prenatal x, 25:24364
radiation effects on activity of aldolase and lactate dehydrogenase in blood serum of, x, 22:33765
radiation effects on activity of alkaline phosphatase in leukocytes of, effects of dose fractionation on x, 23:31644
radiation effects on activity of alkaline phosphatase in leukocytes of, effects of dose on x, 23:31645
radiation effects on activity of alkaline phosphatase in ciliary processes of, γ, 21:39341
radiation effects on activity of ATPase in muscles of, effects of denervation on x, 23:12021
radiation effects on activity of dehydrogenases in lymph nodes of, effects of radioisotopes on, 23:45630
radiation effects on activity of esterases in blood serum and visceral organs of, x, 25:16032
radiation effects on activity of glycolytic enzymes of, sublethal ionizing, 25:8779
radiation effects on activity of lipoprotein lipase in adipose tissues of, x, 22:40564
radiation effects on activity of nerve cells in visual cortex of, mechanisms of UHF electromagnetic, 24:46668
radiation effects on activity of phosphorylation enzymes in bone marrow of, effects of dose on γ, 25:44764
radiation effects on activity of properdin system in serum of, protective effects of methyluracil against, 24:7933
radiation effects on activity of proteolytic enzymes of leukocytes of, whole-body γ, 21:32749
radiation effects on activity of thromboplastin in blood vessels of, 22:8437
radiation effects on adrenal cortex of, histological study of x, 22:31233
radiation effects on aldolase activity in brain of, combined effects of embitol on x, 23:6372
radiation effects on alkaline phosphatase in leukocytes of, thermal neutron and x, 23:31657
radiation effects on amino acid composition of blood serum of, γ, 24:27525
radiation effects on amino acid content and distribution in gastrointestinal walls of, x, 21:4763
radiation effects on amino acid uptake by proteins in, protective effects of endotoxin against, 21:34721
radiation effects on aminotransferase activity in, combined effects of embitol on x, 22:33736
radiation effects on anamnestic response of, to Forssman antigen, x, 23:45673 (ANL-7535, pp 99-100)
radiation effects on Anaplasma marginale infection in, effects of splenectomy on cobalt-60 γ, 23:10096
radiation effects on androgen synthesis in testes of, x, 25:37870(R) (COO-1602-23)
radiation effects on antibody formation in, 22:28621 (ANL-7278, pp 1-94)
radiation effects on antibody formation in, chronic zinc-65 γ, 25:21607
radiation effects on antibody levels in serum of, γ and x, 21:13033
radiation effects on antibody production by, effects of typhus immunization on x, 23:9870
radiation effects on antibody production in, 23:38496
radiation effects on antibody production in immunized, following stimulation by G and M gamma globulins, x, 25:8621
radiation effects on antibody production in, effects of bone marrow transplants from immune donors on whole-body cobalt-60 γ, 23:38504
radiation effects on antibody production in, effects of antigen-reactive cell transplants from allogenic donors on whole-body cobalt-60 γ, 23:38505
radiation effects on antibody response in, x, 24:2590
radiation effects on antigenic structure of tissues of, zinc-65 γ, 25:21606
radiation effects on antigenicity of scapula bone chips in, effects of high dose on x, 24:7765
radiation effects on antigenicity of tooth transplants in, γ, 25:52009
radiation effects on antitoxin-localizing ability in tissue of, effects of dose on x, 22:6712(R) (COO-1172-7)
radiation effects on antitoxin-localizing response in, effects of diurnal rhythm on x, 22:6712(R) (COO-1172-7)
radiation effects on antitumor activity of liver fractions of, whole-body x, 21:17999
radiation effects on ascorbic acid metabolism in, x, 21:26367
radiation effects on ATPase activity in muscles of, 21:24700
radiation effects on ATPase activity in muscles of, electron, 21:24700
radiation effects on atrophy of parotid glands of, comparison of surgery and x, 23:22418
radiation effects on autoimmune processes in, effects of antibiotics on x, 22:21446
radiation effects on bacteria in organs of, x, 24:877
radiation effects on bacterial infection in, combined effects of lidase fermentation on x, 21:6728
radiation effects on basophilic leukocyte count in, whole-body x, 24:25565
radiation effects on binding capacity of corticosteroid-binding globulin in plasma of, γ, 23:24529
radiation effects on binding of mercapto groups to leukocyte lysosomes in, γ, 22:51406
radiation effects on biochemical and bioelectrical activities of central nervous system of, ionizing, 25:13561
radiation effects on bioelectric activity in brain of, effects of prenatal exposure on γ, 22:40604
radiation effects on bioelectric potentials of cortex of, effects of centrifugation on x, 25:24340(T) (JPRS-52488)
radiation effects on bioelectrical activity in brain of, effects of hypothalamus on, 25:29688
radiation effects on bioelectrical activity in brain of, effects of radial acceleration on sublethal x, 25:42653
radiation effects on biological activity of hypothalamic extracts from, γ, 21:20054
radiation effects on blood alkaline reserve and titration alkalinity of urine of, combined effects of hemorrhage on, 23:10084
radiation effects on blood and RES of, effects of low temperature on whole-body x, 23:14263
radiation effects on blood cell and hemoglobin content of, infrared and x, 23:10062
radiation effects on blood cell count and survival of, protective effects of DNA against γ, 24:32046
radiation effects on blood cells and weight of, effects of repeated doses on recovery following cobalt-60 γ, 23:48216
radiation effects on blood cells and weight of, effects of dose fractionation on γ, 23:48217
radiation effects on blood cells in, following ingestion of exposed food, 25:44920
radiation effects on blood circulation and erythema in skin of, x, 23:38820
radiation effects on blood circulation to retina of, effects of dose on γ and x, 22:23665
radiation effects on blood coagulation in, Thorotrast, 21:30886
radiation effects on blood lipid peroxides in, following intraperitoneal injection of gold-198, 25:32547
radiation effects on blood of, protective effects of platelet extract on in vivo, 22:33869
radiation effects on blood picture of, following injection with turpentine, effects of central nervous system exposure on constant magnetic field, 25:6791
radiation effects on blood platelets in arterioles of ears of, laser, 24:5997
radiation effects on blood pressure and heart beat rate of, effects of dose on γ, 25:46976
radiation effects on blood pressure and heart frequency of, protective effects of AET and cystamine against γ, 25:26794
radiation effects on blood pressure and heartbeat rate in, effects of dose and dose rate on whole-body γ, 25:21835 (CEA-CONF-1722)
radiation effects on blood pressure of, combined effects of acetylcholine, adrenalin, histamine, nicotine, and pentamine on ionizing, 23:5019
radiation effects on blood pressure, heart rate, and respiration in, following administration of zirconium citrate, effects of synchronous calcium gluconate administration on whole-body γ, 25:11289
radiation effects on blood proteins of, following iodine-131 therapy of hypothyroidism, 24:36707
radiation effects on blood proteins of, protective effects of serotonin against phosphorus-32 β, 22:40805
radiation effects on blood serum constituents and enzyme activity, uranium, 24:23370
radiation effects on blood serum of, biophysical whole-body x, 22:10680

radiation effects on blood serum protein fractions of, effects of time on zinc-65 γ, 25:21878
radiation effects on blood serum proteins and survival of, protective effects of injections of lysozyme against x, 25:16229
radiation effects on blood sugar levels in, prolonged zinc-65 γ, 25:21877
radiation effects on blood vessels and tumors of, laser, 24:41992
radiation effects on blood vessels in ears of, protective effects of trihydroxyethylrutoside against electron, 22:40797
radiation effects on blood vessels of ear chambers of, protective effects of troxerutin against electron, 23:781
radiation effects on blood vessels of retina in eyes of, histological study of laser, 22:15067
radiation effects on blood vessels of, protective effects of cystamine against, 22:47561
radiation effects on blood, body weight, and survival of, protective effects of glutathione against chronic x, 22:49464
radiation effects on blood-brain barrier in, phosphorus-32 study of x, 21:20335
radiation effects on body of, use of Trypan blue for visual evaluation of microwave, 23:48221
radiation effects on body weight and hematology of, protective effects of bone marrow and chemicals against γ, 23:8031
radiation effects on body weight and lean meat content of female, in relation to thyroid function, iodine-131 β and γ, 24:14588
radiation effects on bone induction by matrix of transplants in, effects of dose on γ, 23:930
radiation effects on bone marrow cells of, method for study of cobalt-60 γ, 23:29721
radiation effects on bone marrow of combined effects of acceleration and rotation with x, 21:16448(T) (JPRS-38272, pp 47-8)
radiation effects on bone marrow of, effects of grid and slot exposure on x, 23:31960
radiation effects on bone marrow of, protective effects of bone marrow transplants on x, 22:33871
radiation effects on bone marrow, intestinal epithelium, and testes of, effects of degree of cell maturity on x, 22:8594 (CONF-670305-, pp 76-80)
radiation effects on bone receptors in, in relation to composition of peripheral blood, x, 24:48706
radiation effects on bones of growing, effects of androsterone, egg shells, and vitamin D_2 on x, 22:38366
radiation effects on bones of, development of fat embolization following pulsed laser, 23:29744
radiation effects on brain and endocrine glands of, combined effects of burns and, 24:34648
radiation effects on brain cells of, effects of dose on x, 25:46975
radiation effects on brain of, after exposure of embryo, x, 25:16352
radiation effects on brain of, effects of, on protein synthesis and respiration in neuroglia cells and neurons, x, 24:31848
radiation effects on brain of, electromagnetic wave, 24:32189
radiation effects on brain of, electrophysiological analysis of ionizing, 22:45715
radiation effects on brain of, ionizing and UHF electromagnetic, 23:26896
radiation effects on calcium, potassium, and sodium content of tissues of, comparison of chemical effects to polonium-210 α and γ, 22:47611
radiation effects on calcium-45 and phosphorus-32 metabolism in, localized, 22:43441
radiation effects on capillaries in brain of, pathological α and proton, 21:45814
radiation effects on capillaries of, effects of antihistaminic and vasoactive drugs on x, 22:28559
radiation effects on capillaries of, protective effects of trihydroxyethylrutoside against fast electron, 22:40738
radiation effects on carbohydrate metabolism in, 24:34582
radiation effects on carbohydrate metabolism in, effects of cortisone and sodium lactate administration on x, 21:18006
radiation effects on cardiac activity of, effects of adrenaline and ammonia on zinc-65 γ, 25:21873
radiation effects on central nervous system in, lethal electron, 24:21293
radiation effects on central nervous system of, effects of dose on late encephalographic and histological, 21:26600
radiation effects on central nervous system of, low dose x, 23:8071
radiation effects on chemical composition of blood of, acute x, 23:38470
radiation effects on chemical composition of blood of, x, 21:34596
radiation effects on cholinesterase activity in vein and artery walls of, whole-body x, 21:10763
radiation effects on cholinesterase activity in, whole-body x, 21:6648
radiation effects on ciliary body of eyes of, comparison of fast neutron and x, 23:24732
radiation effects on ciliary body of, electron microscopy of fast neutron, 22:49595
radiation effects on circulating lymphocytes in, γ, 23:2932
radiation effects on circulatory system and heart of, 22:23660
radiation effects on Clostridium content of blood and organs in, whole-body, 24:2785
radiation effects on coagulation of retina of, laser, 21:11085
radiation effects on coagulation of serum of, 21:22275
radiation effects on collagen content and healing of wounds in, γ, 24:46657
radiation effects on complement level in, zinc-65 γ, 25:21881
radiation effects on composition and properties of skeletal muscle proteins in fetuses of, x, 25:32559
radiation effects on composition of plasma in, γ, 22:43234
radiation effects on conjunctivo-lacrimal secretion in, γ, 21:22693
radiation effects on content of acetylcholine in brain of, 23:43697
radiation effects on content of acid mucopolysaccharides in ears of, γ, electron, and x, 22:51335
radiation effects on content of acid-soluble deoxypyrimidines in nucleated blood clot cells in, effects of dose on, 24:7746
radiation effects on content of albumins and globulins in blood serum of, following administration of iron-59, β and γ, 22:21602
radiation effects on content of albumins and globulins in blood serum and brain tissues of, microwave, 25:8784
radiation effects on content of albumins in soluble proteins of lungs of, sulfur-35 tracer study of recovery following x, 24:48425
radiation effects on content of autoantibodies in liver of, x, 25:10985
radiation effects on content of bound phospholipids in liver of, in comparison with effects of lipid radiotoxin or oleic acid, ionizing, 24:27524
radiation effects on content of calcium, potassium, and sodium in blood plasma, erythrocytes, and heart muscle of, x, 25:4698
radiation effects on content of catecholamine and sugar in blood of, effects of radial acceleration of x, 24:7733
radiation effects on content of cholesterol in blood serum of, effects of pyridoxin on, 23:5025
radiation effects on content of cholesterol, nitrogen, phospholipids, and total protein in stroma of erythrocytes in, whole-body x, 22:40824(T) (JPRS-44070, pp 19-23)
radiation effects on content of copper, iron, and zinc in blood plasma of, whole-body cobalt-60 γ, 24:44432
radiation effects on content of γ-aminobutyric acid in CNS of, x, 21:368
radiation effects on content of hemoglobin and oxygen in blood of, effects of adaptation to hypoxia on x, 21:41505
radiation effects on content of isozyme fractions of lactate dehydrogenase in serum of, following local x irradiation to heart, liver, and muscles, 21:6462
radiation effects on content of NAD and NADP in organs of, effects of ATP and nicotinamide on, 25:13379
radiation effects on content of nitrogen and proteolytic activity of lymphocytes from, acute γ, 23:6386
radiation effects on content of potassium and sodium in erythrocytes of, x, 25:19107
radiation effects on content of potassium and sodium ions in brain of, 23:43696
radiation effects on content of properdin in blood serum of, uv, 21:32754
radiation effects on content of proteins in blood serum of, electrophoretic study of x, 23:9868
radiation effects on content of sugar in blood of, following administration of iron-59, β and γ, 22:21602
radiation effects on contractility of heart muscle of, electrocardiography of x, 21:39505
radiation effects on contractions of heart of, effects of blood loss and hypoxia on x, 24:34712
radiation effects on cornea of eyes of, carbon dioxide laser, 23:26889
radiation effects on corneas of, cytology and immunology of grafts following x, 22:47485
radiation effects on corticosteroid content of plasma in, γ, 21:34608
radiation effects on count of bacteria in blood of, combined effects of hemorrhage on x, 23:10089
radiation effects on course of eye inflammation in, x, 23:50862
radiation effects on course of Klebsiella infection in, x, 21:22764
radiation effects on cultured bone marrow cells from, effects of spleen shielding on x, 22:31228
radiation effects on denervated ears in, x, 25:47008
radiation effects on depressor reflex and blood pressure of, x, 21:6667
radiation effects on detoxification function of livers in, effects of dose on x, 24:36709
radiation effects on development of collateral lymph circulation in, effects of dose on x, 22:28657
radiation effects on development of collateral vessels in, after cutting femoral artery, effects of dose and dose fractionation on x, 23:41441
radiation effects on development of hemorrhagic and traumatic shock by, following high-dose whole-body lethal, 24:44593
radiation effects on development of metastases in lungs and lymph nodes of, by immunodepression following intravenous injection of V_2 carcinoma cells, x, 25:24390
radiation effects on differential leukocyte count in blood and bone marrow of, iron-59 β and γ, 23:33847
radiation effects on diffusion of antitoxin injected into, x, 23:24552
radiation effects on dinucleotide synthesis in erythrocytes of, whole-body x, 25:32544
radiation effects on dissemination of tumor transplants through lymph nodes of, x, 24:21289
radiation effects on distribution of lipiodol in organs of, following intravenous injection, x, 23:31848
radiation effects on DNA and RNA synthesis in nerve cells of, whole-body x, 22:36183
radiation effects on DNA base content of bone marrow of, x, 22:33737
radiation effects on DNA content of glial and nerve cells in hypothalamus of, x, 25:46745
radiation effects on DNA in hematopoietic system in, x, 25:29637
radiation effects on DNA of, in relation to production of antibodies, uv, 22:14928
radiation effects on DNA synthesis in corenal cells of, during wound healing, strontium-90 β, 23:41240
radiation effects on dry weight and water volume in bronchial epithelium cells in, γ, 25:32584
radiation effects on electric potential and physiological function of cerebral nervous system of, following implantation of cobalt-60 γ source, 25:21833 (CEA-CONF-1720)
radiation effects on electrical activity of brain of, x, 21:8992
radiation effects on electrical activity of brain of, acute x, 23:10068
radiation effects on electrical activity of brain in, following chronic ingestion of iron-59, β and γ, 22:21598
radiation effects on electrical responses in brain of, during photostimulation, effects of dose on, 24:44599
radiation effects on electrocardiogram of, local head and heart and whole-body x, 21:24581
radiation effects on electrocorticograms of, effects of photostimulation on zinc-65 γ, 25:21872
radiation effects on electroencephalogram of, effects of light on x, 23:927
radiation effects on electrolyte composition of blood plasma and cerebrospinal fluid of, protective effects of cystamine against, 22:51903
radiation effects on electrolyte metabolism in, in relation to adrenal cortex function, acute polonium-210 γ, 22:49608
radiation effects on electrophoretic characteristics and uptake of methionine by soluble proteins from muscles of, x, 23:6366
radiation effects on electroretinographic response of, x, 23:20356
radiation effects on embryonic development of central nervous system of, 21:24539 (CONF-631008, pp 48-81)
radiation effects on embryonic development of central nervous system and postnatal behavior of, γ and x, 21:16498
radiation effects on endocrine function of ovaries in, x, 23:793
radiation effects on endocrine glands of, x, 25:29633
radiation effects on endocrine organs of, γ, 25:21892
radiation effects on enzymatic degradation of deoxyribonucleoprotein in homogenates of appendix, liver, and spleen, γ, 22:43229
radiation effects on enzyme activity and leukocyte volume in, 24:34582
radiation effects on enzyme activity and metabolism in erythrocytes of, effects of dose fractionation on whole-body x, 21:28403
radiation effects on enzyme activity and respiration in erythrocytes of, effects of chemical compounds on x, 22:45428
radiation effects on enzyme activity in cerebral tssues of brain of, acute x, 24:48423
radiation effects on enzyme activity in, protective effects of chemicals against ionizing, 24:34404
radiation effects on enzyme activity of heart muscle of, bremsstrahlung, 24:9761
radiation effects on enzyme activity of, comparison of, to radiomimetic effects, 22:49239
radiation effects on enzymes and pathways of thymine metabolism in, 22:45508(R) (PG-Report-826)
radiation effects on epithelium of trachea of, effects of dose fractionation on x, 22:31257
radiation effects on erythrocytes in, Heinz inclusion bodies counting method for determining, 24:34733
radiation effects on erythrocytes of, effects of chemical radiosensitizers on x, 21:22729
radiation effects on erythrocytes of, protective effects of cobalt salts, phospholipids, and yeast against γ, 21:45754
radiation effects on erythrocytes of, protective effects of cystamine against whole-body x, 24:6121
radiation effects on erythropoiesis in anemic, x, 21:4876
radiation effects on erythropoiesis in, following chronic ingestion of iron-59, β and γ, 22:21450
radiation effects on erythropoiesis in, following prolonged uptake of iron-59, β and γ, 22:21453
radiation effects on erythropoiesis in, with phenylhydrazine-induced anemia, effects of dose fractionation on whole-body x, 21:28666
radiation effects on erythropoietic system of, comparison of RBE of β, fast neutron, and x, 23:26894
radiation effects on estrogen-induced gynecomastia in, x, 23:31954
radiation effects on evoked and spontaneous electroencephalographic activities of brain in, non-lethal, whole-body γ, 23:31903 (CEA-R-3693)
radiation effects on excitability of visual system in, x, 23:933(R) (NIRS-6)
radiation effects on excretion of free amino acids in urine by, gamma and combined gamma and thermal neutron, 25:21834 (CEA-CONF-1721)
radiation effects on extractable fractions and thermal stability of soluble muscle proteins of, x, 21:4765
radiation effects on eye of, microwave, 21:18125
radiation effects on eye tissues of, neodymium laser, 23:26890
radiation effects on eye tissues of, pathology of laser, 21:26569
radiation effects on eyes in, protective effects of chemicals against cataract-inducing cobalt-60 γ and fast neutron, 25:27014
radiation effects on eyes of young, RBE for high-energy electron and x, 21:45823
radiation effects on eyes of, CO_2 laser, 23:38811
radiation effects on eyes of, continuous CO_2 laser, 22:15106
radiation effects on eyes of, during space flights, methods for protection against uv, 25:21903(R) (AD-711360)
radiation effects on eyes of, effects of density and exposure time on microwave, 23:14247 (UR-49-1012)
radiation effects on eyes of, effects of dose on cobalt-60 γ and high-energy electron, 23:6584

radiation effects on eyes of, effects of energy levels on laser, 22:8619
radiation effects on eyes of, effects of intensity on uv, 24:23363
radiation effects on eyes of, effects of ocular spectral characteristics of retinal pigment epithelium and chloroid on pathological white light and laser, 22:51922
radiation effects on eyes of, effects of power density on laser, 24:19363
radiation effects on eyes of, effects of spectral reflection and transmission properties of choroid, retina, and sclera on laser, 22:51921
radiation effects on eyes of, electron microscopy of strontium-90 β, 22:31224
radiation effects on eyes of, evaluation of laser, 24:44603
radiation effects on eyes of, healing effects of drugs and surgery on infected corneal wounds following, 25:29649
radiation effects on eyes of, histological study of laser, 22:6880
radiation effects on eyes of, in relation to safety levels for parameters of laser, 23:22401
radiation effects on eyes of, laser, 23:16395
radiation effects on eyes of, laser, 22:38420 (CONF-660573-, pp 5-18)
radiation effects on eyes of, mechanisms in effects of peak power on laser, 22:51919
radiation effects on eyes of, microwave, 22:554(R) (UR-49-810)
radiation effects on eyes of, morphology of combined effects of ammonia and, 25:32585
radiation effects on eyes of, pathological electron, 23:2945
radiation effects on eyes of, pathological laser, 22:25986
radiation effects on eyes of, protective effects of 5-adenylic acid, ATP, cysteamine, serotonin, and vitamin B$_6$ against γ and neutron, 22:12875
radiation effects on eyes of, protective effects of AET, adenosine monophosphates, cysteamine, and serotonin against, 23:38601
radiation effects on eyes of, protective effects of chemicals against fast neutron, 24:27610
radiation effects on eyes of, Q-switched laser, 22:49587
radiation effects on eyes of, thermal, 21:45775(R) (AD-651750)
radiation effects on eyes of, thresholds for laser, 23:50895
radiation effects on eyes of, use of γ, to simulate effects of nuclear explosions on eyes of man, 21:28652
radiation effects on eyes of, uv, 21:22750
radiation effects on eyes of, uv, 25:21899
radiation effects on eyes of, uv, 24:32210
radiation effects on fat sorption from intestines of, iodine-131-labeled triolein study of acute cobalt-60 γ, 23:2772
radiation effects on fatty acids in liver of, therapeutic value of, 22:25731
radiation effects on fatty acids in liver of, therapeutic value of, 22:25730
radiation effects on febrile reaction in, 22:49511
radiation effects on fertility of female, whole-body x, 21:22736
radiation effects on fertilizing ability of sperm of, effects of dose on x, 23:20351
radiation effects on fibrinogen of, chromatographic, electrophoretic, and spectrographic study of cobalt-58 γ, 25:21884
radiation effects on filtering capacity of lymph nodes of, x, 22:21617
radiation effects on function and structure of brain of, static magnetic field, 25:6794
radiation effects on function and structure of heart in, x, 22:28682
radiation effects on function and structure of vestibular organs of, γ, 22:31209 (UCRL-17751, pp 81-141)
radiation effects on function of reticulo-endothelial system of, effects of body temperature on, x, 21:36738
radiation effects on function of vestibular analyzer in, effects of localized exposure on x, 22:6905
radiation effects on functioning of renal tubules of, uranium, 24:23366
radiation effects on functions of circulatory and nervous systems of, x, 23:33870
radiation effects on gastric mucosa of, combined effects of cortisone on x, 22:36372
radiation effects on gastrocnemius muscle of, 21:32746
radiation effects on gastrointestinal tract of, γ, 24:50674(R) (BNWL-1306(Pt.1))
radiation effects on giant nerve cells of, following exposure of brain stem, x, 24:5999
radiation effects on glucoproteins and lipoproteins in blood of, protective effects of serotonin against phosphorus-32 β, 22:12797
radiation effects on glutamic decarboxylase activity in brain tissues of, x, 21:367
radiation effects on glycogen content of megakaryocytes of, x, 22:47481
radiation effects on glycogen synthesis in liver of, combined effects of starvation on, 22:40558
radiation effects on glycolysis and respiration in brain of, following fetal exposure, x, 24:41987
radiation effects on glycolysis in brain and spinal cord of, γ, 21:4770
radiation effects on granulocytopoiesis in, effects of dose on, 22:49575
radiation effects on growth of articular cartilage in, 22:4670
radiation effects on growth of implanted neoplasms in abdomen of, local x, 21:24648
radiation effects on growth of polyomas in, comparison with effects of thymectomy, x, 23:22414
radiation effects on growth of virus-induced tumors in, γ, 23:38787
radiation effects on growth, life span, and reproduction in, following ingestion of irradiated diet, γ, 22:17069
radiation effects on head of, intracerebral temperature changes following x, 25:13575
radiation effects on healing of hepatic wounds in, 21:434
radiation effects on healing of metatarsal fractures in offspring of exposed, x, 21:26574
radiation effects on heart beat of, following treatment with digitalis, 21:10734
radiation effects on heart function in, following prolonged internal administration of iron-59, β and γ, 22:21603
radiation effects on heart of, effects of, on structure of coronary vessels, 24:48695
radiation effects on heart of, electrocardiogram analysis of x, 22:21423
radiation effects on heart of, localization of, 25:26961
radiation effects on heart of, x, 23:2924
radiation effects on heart rhythm of, effects of aconitine and procaine on x, 21:24583
radiation effects on heart rhythms of, effects of nervous system on, 24:34663
radiation effects on hearts of, electrocardiogram and histopathological studies on, x, 21:24582
radiation effects on heat production and thermoregulation in, x, 21:4878
radiation effects on hematology of, combined effects of burns on, 24:2780
radiation effects on hematopoiesis and survival of, effects of dose on γ and x, 22:49578
radiation effects on hematopoiesis and survival of, protective effects of bone marrow hydrolysate against x, 25:16333
radiation effects on hematopoiesis in bone marrow of, following local exposure of femur, kinetic studies of, 22:28665
radiation effects on hematopoiesis in, during pregnancy, β and γ, 22:21600
radiation effects on hematopoiesis in, following loss of blood, β and γ, 22:21454
radiation effects on hematopoiesis in, following prolonged administration of iron-59, β and γ, 22:21599
radiation effects on hematopoiesis in, radioisotopic methods for study of cobalt-60 γ whole-body, 24:32188
radiation effects on hematopoiesis in, treated with diphacyl, x, 21:3419
radiation effects on hematopoietic cells in bone marrow of, effects of dose on, 24:36803
radiation effects on hematopoietic system of, comparison of RBE for β, fast neutron, and x, 22:40822(T) (JPRS-44070, pp 1-9)
radiation effects on hematopoietic system of, effects of surgical bleeding on regeneration time from x, 21:22718
radiation effects on hemolysin formation in, from injected iodine-131 labeled tobacco mosaic virus, 21:24596
radiation effects on hemolysin production in, combined effects of colchicine on x, 21:12995
radiation effects on hemolysin response in, x, 24:41956 (ANL-7635, pp 1-54)
radiation effects on hemolysis of blood of, effects of dose on γ, 23:12014
radiation effects on hemopoiesis and morphological changes in organs of, chronic zinc-65 γ, 25:21876
radiation effects on hemopoiesis in, chronic zinc-65 γ, 25:21875
radiation effects on hemopoiesis in, zinc-65 γ, 25:21874
radiation effects on hemosiderin of bone marrow of, plutonium-239 α and γ, 23:33636
radiation effects on hippocampus neurons of, x, 22:45442
radiation effects on histamine content of blood of, following exposure of skin, uv, 23:2940
radiation effects on hormone content of superior sympathetic ganglia in, γ, 21:8715
radiation effects on hyperglycemia test in, whole-body γ, 25:46977
radiation effects on immune reactions in, combined effects of biological stress on γ, 21:39320(R) (AD-632250)
radiation effects on immune reactions in, combined effects of appendectomy or thymectomy and x, 25:39803
radiation effects on immune reactions in, effects of thymectomy on x, 21:30870
radiation effects on immune reactions in, effects of appendectomy and thymectomy on x, 21:16453
radiation effects on immune reactions in, following administration of typhoid vaccine, x, 23:6356
radiation effects on immune reactions in, following injection of bovine gamma globulin, effects of shielding of appendix and bone marrow on, 24:31877
radiation effects on immune reactions in, γ, 21:8932
radiation effects on immune reactions in, γ, 21:36725
radiation effects on immune reactions in, local γ, 21:8933
radiation effects on immune reactions in, protective effects of human serum albumin against x, 23:45676
radiation effects on immune reactions in, to allogenic tissue transplants, x, 21:11061
radiation effects on immune reactions in, x, 21:24647
radiation effects on immune reactions in, x, 24:36721
radiation effects on immune reactions in, x, 21:34572
radiation effects on immune reactions of lymphocytes in, following injection of antigens, whole-body γ, 24:17126
radiation effects on immune reactions of tissues of, to phi X 174 bacteriophages, effects of dose on x, 23:38501
radiation effects on immune reactions of, effects of pentoxyl on, 24:9782
radiation effects on immune reactions of, following removal of gut-associated lymphoid tissues and transplantation of stem cells, x, 24:25414
radiation effects on immune reactions of, following injection with allogeneic bone marrow cells incubated with antigen and γ-irradiated in vitro, γ, 24:36723
radiation effects on immune reactions of, in relation to presence of antigen-reactive cells, cobalt-60 γ, 24:4583
radiation effects on immune reactions of, protective effects of typhus immunization against x, 23:9869
radiation effects on immune reactions of, to corneal transplants, γ, 22:38433
radiation effects on immune reactions of, to influenza virus, effects of amethopterin, cyclophosphamide, and prednisolone on x, 24:9789
radiation effects on immune reactions of, to skin transplants on ears, ^{111}Ag and ^{131}I β and γ, 22:21439
radiation effects on immune reactions of, to transplanted corneal tissue, x, 22:51395
radiation effects on immune reactions, γ, 23:38503
radiation effects on immune reactions, leukocyte count, and survival of, effects of staphylococcus infection on x, 24:32182(T) (ORNL-tr-2315)
radiation effects on immune response of, in relation to splenic secondary nodules, whole-body x, 22:19279
radiation effects on immune response of, in relation to formation of antibodies in liver and spleen explants, effects of choline on, 24:25418
radiation effects on immune response of, to smallpox vaccine in relation to plasma cell reaction, 24:27553
radiation effects on immune response to anthrax of, x, 21:428
radiation effects on immune response to influenza virus in, combined effects of Endoxan on x, 24:14437
radiation effects on immune tolerance to human serum albumin in, x, 23:22228
radiation effects on immunity and protein metabolism in, effects of ethanolamine on x, 23:10017
radiation effects on immunity of, to endogenous and exogenous infectation, 24:31865
radiation effects on immunity of, to typhoid fever, x, 23:785
radiation effects on immunoglobulins of, x, 23:22200
radiation effects on immunological specificity of liver proteins of, effects of antibiotics on x, 21:16286
radiation effects on immunosuppression in, 24:616
radiation effects on incidence of Tyzzer's disease in, effects of cortisone on x, 22:47586
radiation effects on incorporation of carbon-14-labeled leucine into nuclear fractions of thymus gland of rabbits, 21:22697
radiation effects on induction of foam cell lesions in blood vessels of, x, 21:32761
radiation effects on inner ear of, high-energy α, 22:12936
radiation effects on inner ear of, pathological x, 22:23600(T) (N-67-18922)
radiation effects on intestinal absorption in, effects of humoral mediators on x, 21:4758
radiation effects on intestinal sorption of L-alanine in, γ, 21:10762
radiation effects on intestine of, combined effects of serotonin on x, 22:49550
radiation effects on intracellular bactericidal mechanisms in leukocytes of, γ, 24:4686
radiation effects on intraocular tension and permeability of ocular vessels of, effects of azamethonium bromide and chlorpromazine on x, 23:783
radiation effects on iodine-131 clearance rate in skin of, x, 25:58125
radiation effects on isolated DNA from appendix of, chromatographic analysis of, 21:26344
radiation effects on keratitis-incidence in eyes of, thresholds for uv, 25:39898
radiation effects on kidney function in, effects of dose and dose fractionation on γ, 24:9952
radiation effects on kidney soluble protein biosynthesis in, electrophoretic and tracer study of x, 22:33739
radiation effects on kidneys and liver of, effects of dose on mercury-197 and mercury-203 β and γ, 23:26887
radiation effects on kidneys in, additive effects of nephritis on pathological x, 25:21863
radiation effects on kidneys of, effects of prednisolone on subsequent nephritis following γ, 25:24391
radiation effects on kidneys of, following therapy of abdominal neoplasms, 22:40756
radiation effects on kidneys of, pathological whole-body γ, 23:933(R) (NIRS-6)
radiation effects on kidneys of, use of iodine-131-labeled hippuran to determine γ, 24:876
radiation effects on kidneys of, with nephritis, electron microscopic study of, 22:43435
radiation effects on kidneys of, x, 21:4871
radiation effects on lactate dehydrogenase from muscles of, thermal aftereffects of uv, 21:26352
radiation effects on lactate dehydrogenase of muscle of, effects of dimethylsulfoxide on x, 21:30850
radiation effects on leg nerves in, effects of age on local x, 21:11062
radiation effects on lens epithelium of, effects of shielding on fast neutron and x, 22:15063
radiation effects on lens of eye of, comparison of, to effects of aging, 21:32778
radiation effects on lens of eyes of, protective effects of combinations of radio-protective drugs against cobalt-60 γ, 24:27609
radiation effects on lens of, effects of dose fractionation on fast neutron, 22:51964
radiation effects on lens of, effects of dose fractionation on recovery from x, 21:6627
radiation effects on lens of, RBE for fast neutron and x, 22:51966
radiation effects on lenses of, fast neutron and x, 24:32219
radiation effects on leucocyte count in, focal x, 22:6712(R) (COO-1172-7)
radiation effects on leukocyte count of, combined effects of traumatic infection on, 24:21302
radiation effects on leukocyte count, lysozyme activity, and trypsin inhibitors in serum of, effects of dose on whole-body x, 25:42648
radiation effects on leukocytes of, 21:11028

radiation effects on leukocytes of, following extracorporeal irradiation of blood, combined effects of chlorpromazine on uv, 23:31918
radiation effects on leukopoiesis in bone marrow of, protective effects of glutathione against γ, 25:42536
radiation effects on leukopoietic activity of blood plasma of, whole-body 600 R x, 24:34655
radiation effects on life span and weight of, x, 21:20345
radiation effects on life span of erythrocytes of, in comparison to effects of phenylhydrazine, x, 22:33731
radiation effects on life time and ultrastructure of blood platelets in, γ, 21:26588
radiation effects on life-span of lymphocytes in, x, 21:22717
radiation effects on light response of cells in retina of, x, 22:23414(R) (ORO-3599-1)
radiation effects on liver in, effects of dose on injected palladium-103 and palladium-109, 25:32554
radiation effects on liver of, γ, 23:41443
radiation effects on localization of injected antitoxin in, x, 21:24595
radiation effects on localization of injected protein in tissues of, effects of inflammation on x, 22:6712(R) (COO-1172-7)
radiation effects on localization of radioiodine-labeled serum albumin in, x, 22:6712(R) (COO-1172-7)
radiation effects on localization of skin-injected toxins in, effects of 2000 to 8000 R doses on subcutaneous x, 24:25568
radiation effects on long-chain fatty acids in, acute phosphorus-32, 22:47482
radiation effects on lung surface of, 25:11267
radiation effects on lung tissues and tumors of, effects of energies on laser, 22:25901
radiation effects on lung tissues of, effects of dose on electron, γ, and x, 25:16305(T) (LF-tr-33)
radiation effects on lungs of, comparison of 17.3 MeV electron, cobalt-60 γ, and x, 23:31945
radiation effects on lungs of, comparison of electron, γ, and x, 23:50849
radiation effects on lungs of, histological study of x, 23:31928
radiation effects on lungs of, late electron, 22:51898
radiation effects on lungs of, local γ, 21:8957
radiation effects on lymph nodes of, following endolymphatic therapy of V2 carcinomas, iodine-131 and phosphorus-32 β, 23:35899
radiation effects on lymph nodes of, histological study of effects of antigens, appendectomy and thymectomy on x, 22:25879
radiation effects on lymph system of, growth of carcinoma cell transplants following, 23:16418
radiation effects on lymph vessels in ear of, regeneration rate following x, 21:12990
radiation effects on lymphatic and venous blood outflow in, combined vein resection and, 25:32561
radiation effects on lymphatic capillaries of liver of, combined effects of surgery on x, 24:32187
radiation effects on lymphocytes of, gamma, 21:9002
radiation effects on lymphoid system of, effects of thymectomy on x, 24:41971
radiation effects on lymphoid tissues in, combined effects of appendectomy or thymectomy and x, 25:46758
radiation effects on lysozyme content of blood serum and osmotic resistance of erythrocytes in, whole-body uv, 25:8782
radiation effects on lysozyme content of lung macrophages in, x, 23:26898
radiation effects on macrophages of donor, in relation to ability to induce antibody response in normal recipients, whole-body x, 23:43713
radiation effects on mandibles of, histochemical and morphological studies on x, 25:24352
radiation effects on megakaryocytes and platelets of, 25:44897
radiation effects on metabolism of bilirubin in liver of, effects of dose on γ, 25:16039
radiation effects on metabolism of chemical compounds in corneas of, x, 25:47010
radiation effects on metabolism of dimecarbine by, γ, 25:13576
radiation effects on metabolism of glycogen in, x, 22:23623
radiation effects on metabolism of polysaccharides in lungs of, following inhalation of plutonium-239, α and γ, 24:51051
radiation effects on metabolism of serum albumins in, whole-body γ, 21:45556
radiation effects on migration of leukocytes in, following subcutaneous injection of leukocytic factors, x, 25:24341
radiation effects on mineral content of bones of, cesium-137 γ, 23:2920 (COO-1422-35)
radiation effects on mitosis in endothelium of blood vessels of, 23:29770
radiation effects on mitosis of corneal epithelial cells of, γ, 22:49513
radiation effects on molybdenum content in organs of, effects of dose and time on x, 25:24342
radiation effects on morphology and physiology of nervous system of, effects of dose fractionation on microwave, 22:583
radiation effects on morphology and physiology of gastrointestinal and respiratory tracts of, x, 23:6573
radiation effects on morphology of blood platelets of, 23:10085
radiation effects on morphology of cornea of, threshold for carbon dioxide laser, 22:51923
radiation effects on morphology of liver in, x, 22:6904
radiation effects on morphology of myocardium of, x, 21:32760
radiation effects on movement of intestines of, following CNS exposure, cobalt-60 γ, 23:14262
radiation effects on muscle contraction in, effects of acetylcholine and d-tubocurarine on x, 25:24413
radiation effects on muscles in, effects of succinylcholine chloride on whole-body γ, 25:46996
radiation effects on myocardium of, effects of dose on ionizing, 23:29765
radiation effects on NAD synthesis in erythrocytes and reticulocytes of, whole-body 600 R, 24:23110
radiation effects on natural immunity of, strontium-90 β, 24:27552
radiation effects on nerve repair in, effects of methyl-2-cyanoacrylate adhesive on phosphorus-32 β, 22:16993
radiation effects on nerves controlling heart function in, following prolonged uptake of iron-59, β and γ, 22:21604
radiation effects on nerves of stomach of, submicroscopic acute x, 23:16366
radiation effects on nervous system of, long term, low dose, ultra high frequency electromagnetic, 24:46660
radiation effects on neural activity in optical cortex of, exposed during embryogenesis, x, 25:11283
radiation effects on neuraminic acid and mucoproteins of blood serum of, mechanisms for x, 22:28312
radiation effects on neuro-humoral regulation in, low dose phosphorus-32 β and iodine-131 β and γ, 24:44596
radiation effects on neuropathological response of, proton, 22:47592
radiation effects on neurosecretion of hypothalamus of, γ, 23:29369
radiation effects on neurotectomized, effects of antibiotics, nicotinic acid, thiamine and uv light on response to experimental infection and repair of x, 24:34422
radiation effects on nonpigmented and pigmented skin of, comparison of laser, 22:40823(T) (JPRS-44070, pp 10-18)
radiation effects on normal and neoplastic tissues of, effects of hypothermia and oxygen tension on x, 21:43459
radiation effects on nucleic acid fractions in marrow of, 21:34610
radiation effects on nucleic acid metabolism in retina of, x, 23:29362
radiation effects on nucleic acids in normal and denervated muscles of, whole-body x, 22:49217
radiation effects on numbers of blood cells in, effects of dose on x, 21:43507
radiation effects on ocular tissues in, ruby laser, 21:16427 (AD-638917)
radiation effects on olfaction in, following exposure of olfactory and central nervous systems, x, 25:39910(R) (COO-1669-7)
radiation effects on olfactory bulb neurons in, β and x, 22:552(R) (COO-1669-1)
radiation effects on olfactory response of, 2 to 4 hrs after exposure to 50 to 70 kR doses, 24:9946
radiation effects on olfactory system of, mechanisms in acute x, 22:51870(R) (COO-1669-4)
radiation effects on organs of, effects of dose and time on zinc-65 γ, 25:21883
radiation effects on organs of, following prolonged administration of iron-59, pathological β and γ, 22:21606
radiation effects on oxidation of palmitate in liver and thymus of, acute cobalt-60 γ, 23:6394
radiation effects on oxidation-reduction potential of blood of, effects of dose on x, 25:32548
radiation effects on oxidative phosphorylation and respiration of liver mitochondria in, effects of oxygen inhalation on, 23:6358
radiation effects on oxidative phosphorylation and respiration in bone marrow of, after homotransplantation of bone marrow elements, effects of doses of 1200 to 1250 R on, 25:27019
radiation effects on oxidoreductase activity in ovaries of, effects of dose on x, 23:50874
radiation effects on pancreas of, effects of dose on x, 22:558
radiation effects on pathomorphology of brain of, γ, mixed γ—neutron, and proton, 25:29644
radiation effects on performance of nerve heterografts in, effects of pretreatment with specific antiserum on, 22:51364
radiation effects on peripheral blood cells and survival of, effects of dose and splenectomy on x, 25:21828 (AD-416196)
radiation effects on permeability of blood vessel-tissue barriers in, combined effects of hemorrhage on γ, 22:28570
radiation effects on permeability of blood vessels in, effects of dose on γ and x, 22:23614
radiation effects on phagocytic activity of leukocytes in, x, 21:8922
radiation effects on phagocytic activity of leukocytes in, effects of cystamine on, 21:10999
radiation effects on phagocytic activity of neutrophils of, chronic zinc-65 γ, 25:21880
radiation effects on phosphofructokinase from muscles of, effects of inhibitor on, 24:21077
radiation effects on phospholipids of, effects of, on growth of Ehrlich tumor cells, 23:16240
radiation effects on physiological adaptation of, combined effects of low oxygen content atmospheres on UHF electromagnetic, 23:26893
radiation effects on physiology of central nervous system in, following head exposure, effects of dose on γ, 24:9937
radiation effects on physiology of kidneys of, iodine-131-labeled hippuran tracer study of γ, 22:15076
radiation effects on physiology of vestibular apparatus of, effects of radioprotective agents on, 21:16373(T) (JPRS-38272, pp 46)
radiation effects on physiology of, effects of dose on x, 22:33920
radiation effects on physiology of, effects of space flight on, 21:30911
radiation effects on physiology of, effects of uranium on, γ, 21:14566
radiation effects on pigmented retinal epithelium in, laser, 22:2541
radiation effects on plasma protein metabolism, iodine-131 tracer study of, 21:30894
radiation effects on platelet count of, effects of, on cholesterol atherogenesis, phosphorus-32 β, 22:49522
radiation effects on pneumonitis development in etiopathology of, 25:39933
radiation effects on population dynamics of, in Utah, x, 23:7971(R) (COO-1329-7)
radiation effects on porosity of skin of, in relation to content of hyaluronic acid, x, 23:10080
radiation effects on potassium and sodium ion content of aqueous and vitreous fluids in eyes of, laser, 24:46584
radiation effects on production of anti-sheep-erythrocyte hemolysin in intact and splenectomized, x, 22:8469
radiation effects on production of hemolysin by, effects of colchicine on x, 23:11936(T) (AEC-tr-6646/4A, pp 139-45)
radiation effects on production of hemolysin in, γ, 21:45817
radiation effects on progeny of, effects of parental iodine-131 administration on β and γ, 22:8625
radiation effects on proliferation of phagocytes in tuberculous lesions of, tritium tracer study, 25:27001
radiation effects on properties of DNA in bone marrow in legs of, local x, 21:8712
radiation effects on properties of epithelium of skin of, effects of therapeutic dose on x, 24:51054
radiation effects on protease activity in leukocytes, macrophages, and spleen cells of, whole-body x, 25:27035
radiation effects on protein content of blood serum of, high and low energy x, 22:28387
radiation effects on protein content of vitreous fluid in eyes of, laser, 24:46583
radiation effects on protein metabolism in gastric mucosa of, x, 21:17964
radiation effects on proteins of heart of, during radiation sickness, x, 24:48428
radiation effects on proteolytic activity of leukocytes of, γ, 22:47579
radiation effects on proteolytic activity of leukocytes of, γ, 23:20321
radiation effects on pulmonary blood circulation in, acute x, 25:55327
radiation effects on pulmonary blood vessels of, x, 21:20333
radiation effects on pyridine nucleotides and nucleosidases in erythrocytes of, whole-body x, 23:9897
radiation effects on quenching properties of blood plasma and serum from, γ, 22:38247 (A-AC-82/G/L-1163)
radiation effects on reaction of thyroid to tar, effects of partial thyroidectomy on, 21:26515
radiation effects on reaction of, to epinephrine and phenergan, 21:4851
radiation effects on reactive proteins in blood of, β, 21:34602
radiation effects on recovery of, from cystotomy, 21:4873
radiation effects on recovery of, from hemorrhage during radiation sickness, x, 23:10013
radiation effects on reflex activity in central nervous system of, γ, 22:47590
radiation effects on regeneration of bone marrow in, following localized depletion in femur, 24:48703
radiation effects on regeneration of fractured bones of, protective effects of Coamid and Mumie against γ, 25:52111
radiation effects on regeneration of hypoglossal nerves of, autoradiographic study of x, 22:43455
radiation effects on regeneration of striated muscles of, x, 24:2806
radiation effects on regeneration of striated skeletal muscle in, acute x, 22:31226
radiation effects on renal function and morphology in, methods for studying γ, 25:29684
radiation effects on reproductive capacity of endothelial cells in blood vessels of, 24:27694
radiation effects on respiration in mitochondria of, effects of protective agents against γ, 21:34705
radiation effects on response of, to epinephrine, effects of dose fractionation on x, 22:25994
radiation effects on response of, to skin transplants, whole-body ionizing, 21:39522
radiation effects on reticulo-endothelial function in, evident 6 to 8 hours after injection, combined effects of sex hormones on thorium dioxide, 23:26666
radiation effects on reticulo-endothelial system in, lethal x, 25:32542
radiation effects on reticuloendothelial system function of, combined effects of hemorrhage on, 23:10078
radiation effects on retina of chinchilla grey, comparison of neodymium and ruby laser, 22:33962
radiation effects on retina of eyes of, laser, 22:4695
radiation effects on retina of eyes of, saturation effect of laser, 21:26642
radiation effects on retina of, acute x, 23:2948
radiation effects on retina of, effects of wavelength on laser, 24:27683
radiation effects on retina of, histological determinations of laser, 21:22676
radiation effects on retina of, laser, 25:2591
radiation effects on retina of, use of electroretinogram for comparing toxic thermal neutron and x, 25:8761
radiation effects on retina of, x, 21:6663
radiation effects on revascularization of blood supply in skin grafts on, microwave, 25:19104
radiation effects on saliva parotin-A activity in, x, 22:51437
radiation effects on sensitivity of erythrocytes of, to hypotonic solutions of sodium chloride, x, 22:6867 (LFEN-56)
radiation effects on sensitivity of muscles and nerves of, to succinylcholine, 22:445
radiation effects on sensitivity of vestibular analyzer in, in relation to incidence of nystagmus, 22:36364

radiation effects on sensitivity of, to anesthetics during radiation sickness, effects of radioprotective agents and trauma on γ and x, 23:31915
radiation effects on serotonin content in blood of, x, 21:24547 (NIRS-5, pp 28-46)
radiation effects on serum content and synthesis of proteins in rabbits, x, 22:6751
radiation effects on serum content of lipoproteins and cholesterol in, x, 21:10793
radiation effects on serum protein fractions of, effects of immunization on prolonged chronic zinc-65 γ, 25:21879
radiation effects on serum protein metabolism in, γ, 21:24311
radiation effects on serum protein metabolism in, γ, 21:24312
radiation effects on skin and underlying tissues of, effects of dose on high-energy electron, 22:38419 (CEA-R-3294)
radiation effects on skin capillaries in, protective effects of Vernoruton P$_4$ against x, 21:41447
radiation effects on skin grafts in, γ, 22:19336
radiation effects on skin in, effects of dose on proton or x, 24:48642
radiation effects on skin of, 22:23667
radiation effects on skin of ears of, role of oxygen in recovery from x, 21:22694
radiation effects on skin of, beta, 21:1834
radiation effects on skin of, comparison of cesium-137 and radium-226, 23:35755
radiation effects on skin of, comparison of protective effects of cystamine and cysteamine against, 23:33740
radiation effects on skin of, effects of bacterial toxins on x, 23:920
radiation effects on skin of, effects of cooling on x, 24:2755
radiation effects on skin of, effects of nervous system on erythemic x, 24:21314
radiation effects on skin of, effects of pigment on laser, 22:12784
radiation effects on skin of, protective effects of dimebolin, dimedrol, EAC, and trasylol against β, 22:21543
radiation effects on skin transplantability in, γ, 21:28650
radiation effects on specific gravity of blood and serum of, effects of dose on x, 23:33872
radiation effects on sperm of, x, 21:22709
radiation effects on spermatogenesis in, following testicular irradiation, gamma, 21:1819
radiation effects on spermatozoa of, protective effects of chemical agents against cobalt-60 γ, 22:19376
radiation effects on spermatozoids of, effects of dose and dose rate on γ, 25:26954
radiation effects on spleen of, bone marrow function following x, 24:14581
radiation effects on spleen of, effects of, on reticulocyte depression by extracted blood serum, x, 21:41487
radiation effects on stored sperm of, effects of dose on survival of progeny following x, 23:31956
radiation effects on Strongyloides, infestations in, effects of dose rate on uv, 24:17128
radiation effects on strontium-85 uptake by bones of, effects of age on γ, 23:50860
radiation effects on structure of fatty acids in, x, 22:16992
radiation effects on structure of neurons of upper cervical sympathetic ganglion of, whole-body x, 25:29675
radiation effects on sulfate conjugation in liver of, after administration of N-acetyl-p-aminophenol, x, 21:45547
radiation effects on survival of erythrocytes in, chromium-51 tracer study of fast neutron, 23:26903
radiation effects on survival of skin homotransplants in, iodine-131 and silver-111 β and γ, 23:20362
radiation effects on survival of, effects of bone marrow removal on, 25:16354
radiation effects on survival of, effects of vegetable diet on, 25:16354
radiation effects on survival of, protective effects of drugs against ionizing, 23:50638
radiation effects on survival of, protective effects of tissue preparations against x, 25:58033
radiation effects on survival of, use of body weight and blood changes to estimate probability of x, 22:21578
radiation effects on survival of, x, 23:6573
radiation effects on survival time of erythrocytes of, protective effects of adenosine against fast neutron and x, 25:16221
radiation effects on sympathetic innervation of heart in, x, 21:4850
radiation effects on synthesis of antibodies in, effects of colchicine on x, 22:28621 (ANL-7278, pp 1-94)
radiation effects on synthesis of lipids in liver and thymus of, effects of dose on γ, 22:51473
radiation effects on synthesis of plasma proteins in, tracer study of acute, 22:43250
radiation effects on synthesis of proteins in lungs of, ionizing, 22:45437
radiation effects on synthesis of proteins of gray and white matter of brain of, whole-body x, 24:48426
radiation effects on synthesis of triglycerides by, x, 21:36495
radiation effects on tattooed skin of, laser, 22:25989
radiation effects on terminal vascular bed of, protective effects of tri-(hydroxyethyl)-rutoside against fast electron, 23:48087
radiation effects on testes in, effects of dose and time postexposure on x, 25:589
radiation effects on testes in, effects of grid method on x, 24:868
radiation effects on testes of, microwave, 23:20352
radiation effects on the eyes of, laser, 21:8866
radiation effects on thrombocytopoietic properties of blood plasma of, 24:12273
radiation effects on thyroid of, effects of thyroglobulin immunity on β, 21:43511
radiation effects on tissue reactivity of, effects of dose fractionation on x, 23:48166
radiation effects on tissues of eye of, histological determinations of laser, 21:22678
radiation effects on tissues of, protective effects of grid against, 24:6049
radiation effects on toxic properties of serum of, on tissue cultures, zinc-65 γ, 25:21882
radiation effects on transfer of D- and L-methionine in intestine of, x, 21:39361
radiation effects on transferase activity in tissues of, x, 21:1811
radiation effects on transplantation immunity in, effects of bone marrow cells on, 24:21090
radiation effects on tumor cell proliferation and virus multiplication in, combined effects of prednisolone on γ, 21:41520
radiation effects on ultrastructure of bipolar cells in retina of, γ, 21:20409
radiation effects on ultrastructure of cells of epidermis in, use of electron microscopy to determine x, 22:30963
radiation effects on ultrastructure of hearts of, dose effects on whole-body γ, 25:44930
radiation effects on ultrastructure of hepatic cells and tissues in, relation of survival time to whole-body γ, 25:32540
radiation effects on ultrastructure of iris of, γ, 21:20407
radiation effects on ultrastructure of nerve cells in upper cervical sympathetic ganglion of, electron microscopic study of whole-body x, 25:44903
radiation effects on ultrastructure of nerve cells of upper cervical sympathetic ganglion in, effects of dose on recovery processes following whole-body x, 25:44906
radiation effects on ultrastructure of neurons of sympathetic ganglion in, 800 R x, 24:34119
radiation effects on uridine diphosphate glucose system of glycogen synthesis in bone marrow of, x, 22:33728
radiation effects on uridine response of, 22:38216
radiation effects on urinary excretion of ethalonamine, serine, and threonine in, γ and neutron, 24:48394 (CEA-CONF-1559)
radiation effects on urinary excretion of free amino acids in, cobalt-60 γ, 23:18087 (CEA-CONF-1172)
radiation effects on vestibular analyzer of, in relation to hazards in space flight, γ, 24:847
radiation effects on vestibular apparatus of inner ear of, role of sympathetic nervous system in γ, 25:37874(T) (JPRS-53068)
radiation effects on vestibular reflexes in, in relation to effects of chlorpromazine, γ, 24:4689
radiation effects on vigilance behavior of, γ, 22:40843
radiation effects on vision of, whole-body γ, 22:40916
radiation effects on visual evoked potential in adult, following prenatal exposure, effects of pentobarbital sodium on x, 25:32571
radiation effects on visual evoked potential in, x, 25:32569
radiation effects on visual function of retina in, ionizing, 21:16447(T) (JPRS-38272, pp 189-90)
radiation effects on visual potential of, effects of dose on γ, 23:33829 (CEA-CONF-1257)
radiation effects on visual system of, effects of dose on, 25:32574
radiation effects on water content of brain, intestines, and kidneys of, iodine-131 β and γ, 22:45435
radiation effects on water metabolism through lung barrier of, x, 21:22339
radiation effects on, antibacterial and proteolytic activity of leukocytes following whole-body x, 23:29782
radiation effects on, antibody levels following x irradiation of testes of, 21:12968
radiation effects on, combined effects of dose and massive hemorrhaging on biosynthetic activity of hematopoietic system following cobalt-60 γ, 24:11953
radiation effects on, determination of RBE for electron and x, 22:51900
radiation effects on, effects of bone marrow transplants on recovery following combined liver injury and, 25:27005
radiation effects on, effects of cell recovery rate on x, 22:8594 (CONF-670305-, pp 76-80)
radiation effects on, effects of inactivation of inner ear function on γ, 22:6892
radiation effects on, effects of labrinthectomy on γ, 22:28685
radiation effects on, effects of postirradiation blood transfusions on acute x, 22:31201
radiation effects on, effects of postirradiation reduction of blood volume on γ, 22:6871
radiation effects on, effects of starvation and vitamins on recovery from combined nerve injury and, 23:29795
radiation effects on, effects of, on determining antibody-forming cells in sacculus rotundus, γ, 24:34174
radiation effects on, effects of, on hematopoiesis in recipients following injection of serum from exposed donors, 24:51029(T) (ANL-Trans-852)
radiation effects on, effects of, on iron-59 uptake by bone marrow cells and erythrocytes, 23:35644
radiation effects on, effects of, on migration of bone marrow cells following subcutaneous injection, x, 24:9929
radiation effects on, effects of, on transformation of venous bed following disruption by resection, x, 24:36832
radiation effects on, following enteral administration of uranium, 24:23370
radiation effects on, in relation to antibody response following injection of sensitized macrophages, effects of challenge by bovine gamma globulin on whole-body x, 23:43713
radiation effects on, laser, 22:38421 (CONF-660573-, pp 35-48)
radiation effects on, LD(50/30) for New Zealand white, bimodal pattern of γ, 21:24601
radiation effects on, LD$_{50}$ for partial-body x, 24:14589
radiation effects on, life span of, effects of whole-body single or fractionated doses of x, 21:22764
radiation effects on, modification of corneal immune response, 21:6683
radiation effects on, protective effects of balneotherapy and cysteamine against γ, 22:15047
radiation effects on, protective effects of bathing in spring water at various seasons against γ, 22:8641
radiation effects on, protective effects of drugs and immunization against, 22:49382
radiation effects on, protective effects of electronarcosis against γ, 22:49484(T) (JPRS-39515, pp 1-13)
radiation effects on, protective effects of marimycin against, 23:10030
radiation effects on, protective effects of pyridoxine against x, 22:6850
radiation effects on, protective effects of small-pox immunization against x, 23:10016
radiation effects on, protective effects of smallpox immunization against x, 21:34769
radiation effects on, protective effects of thymus peptides against x, 21:14681
radiation effects on, RBE for γ and neutron, 24:23362
radiation effects on, RBE of γ and neutron, 22:582
radiation effects on, relation of bone marrow syndrome to lethal γ, 23:10043 (BNL-12950)
radiation effects on, relation of gastrointestinal syndrome to lethal γ and x, 23:10044 (BNL-12951)
radiation effects on, role of macrophages in antibody production following x, 24:31874
radiation effects on, thorium-232 α, 23:22376(T) (AEC-tr-6944, pp 359-74)
radiation effects on, transplantation of thymocytes following whole-body, 24:2792
radiation effects on, use of bone transplants for treatment of fractures following x, 23:26828
radiation effects on, with mechanical liver injury, effects of bone marrow transplants on recovery from, 24:34405
radiation effects, combined with removal of intestinal lymphoid tissue, on immune reactions of, x, 21:24627
radiation impaired antibody production in, recovery of, 21:28520
radiation injuries due to injected Thorotrast in, pathology of, 21:24579
radiation injuries to corneal tissues in eyes of, threshold for carbon dioxide laser, 24:21318
radiation injuries to ears of, protective effects of phlogodym against β, 21:34709
radiation injuries to eyes of, threshold for carbon dioxide laser, 24:2802
radiation injuries to ocular tissues of, in relation to safe exposure levels for man, laser, 24:21306
radiation injuries to retina of, laser, 21:12964
radiation injuries to, protective effects of inosine and neuzyme against, 24:12105
radiation injuries to, use of balneotherapy and cysteamine for treatment of cesium-137 γ, 23:888
radiation injury to bone marrow of, effects of spring water on, 21:20279
radiation injury to erythropoietic system in, role of erythropoietin in, 21:14576
radiation protection using tris(hydroxyethyl) rutin, wound tests of ears for evaluation of, 25:21746
radiation response of olfactory organs of, β and x, 23:2929
radiation sickness effects on respiration of, combined effects of blood loss on, 22:33911
radiation sickness following destruction of hypothalamus in, changes in blood parameters during, 25:42660
radiation sickness in, development of hemorrhagic syndrome during x-ray-induced, 21:4757
radiation sickness in, effects of antibiotics on immunologic specificity of liver proteins during, 21:20053
radiation sickness in, effects of barbamyl on effects of procaine on course of acute, 21:8853
radiation sickness in, effects of dose and exposure time on γ, 23:43878
radiation sickness in, effects of simultaneous blood transfusions on bone marrow transplants for treatment of, 23:50880
radiation sickness in, effects of solar exposure on cardiovascular system during x, 25:42651
radiation sickness in, effects of transplants of bone marrow preserved by freezing on, 24:34402
radiation sickness in, effects of, on amino acid content of adrenal glands, 23:26698
radiation sickness in, effects of, on autoantibody production, effects of antibiotics on, 21:11023
radiation sickness in, effects of, on blood electrolytes and cholinesterase activity, combined effects of anesthesia and surgery on, 24:23372
radiation sickness in, effects of, on content of albumin-adequate fraction of soluble proteins in stomach and duodenum, x, 24:48424
radiation sickness in, effects of, on kidneys, x, 23:29793
radiation sickness in, effects of, on thromboplastin activity in blood vessel walls and bone marrow, in relation to phosphatidyl ethanolamine and phosphatidylserine, 24:50737
radiation sickness in, effects on soluble protein fractions of liver, x-, 24:48431
radiation sickness in, pathogenesis of hemorrhagic syndrome during, 25:49222
radiation sickness in, pathology of, 22:49484(T) (JPRS-39515, pp 1-13)
radiation sickness in, prolonged activity of succinylcholine during acute γ, 25:49110
radiation sickness in, role of endotoxins in hemorrhagic syndrome during acute, 23:50856
radiation sickness in, role of endotoxins in pathogenesis of hemorrhagic syndrome in, 23:43872
radiation sickness of, effects of distruction of equilibrium functions by bilateral vestibulotomy on development after irradiation, 21:16449(T) (JPRS-38272, pp 45)
radioactivity of labeled albumin in, effects of polymerization on, 21:45511
radioactivity of milk of, following administration of tritium-labeled norsteroids, 21:10781

radiodiagnosis of bedsonia arthritis in, use of technetium-99 and Anger camera scintiphotography for, 23:45814
radiodiagnosis of experimental abscesses in, use of chromium-51-labeled autologous leukocytes for, 24:44546
radioimmunoassay for antivasopressin antibody in, iodine-131, 23:38390
radioimmunoassay of hapten-specific antibody titer in, following weak antigenic stimulation, iodine-125, 23:38395
radioinduced aberrations in neurons of, effects of local exposure on x, 21:39359
radioinduced acoustic transients in eyes of, laser, 24:34665
radioinduced activation of Rous sarcoma virus in, uv and x, 21:18197
radioinduced anemia in, blood parameters in x, 23:14272
radioinduced antigenicity of liver serum of, x, 21:1813
radioinduced antimitotic factor in, following localized exposure of spleen, x, 21:6620
radioinduced bone diseases of, following intravenous injection of Thorotrast, 22:38486
radioinduced brain lesion in, protective effects of cysteamine against, 25:16225
radioinduced burn injuries in, laser, 25:4704
radioinduced burns and lesions in tissues of eyes in, energy range for neodymium laser, 23:45900
radioinduced burns on skin of, effects of dimethyl sulfoxide on β, 22:51837
radioinduced carcinomas in, β, γ, and neutron, 24:6110
radioinduced carcinomas of tissues in central nervous system of, morphology of cobalt-60 γ, 23:48233
radioinduced carcinomas, leukemias, and osteosarcomas in, following internal exposure to cesium-137, iodine-131, or strontium-90, 25:24432
radioinduced cataracts in eye lens of, latent period for, 22:49498
radioinduced cataracts in eyes of, by fast neutrons, 21:431
radioinduced cataracts in eyes of, combined effects of anesthesia on x, 23:2927
radioinduced cataracts in eyes of, effects of average power in relation to dose on microwave, 25:26971
radioinduced cataracts in eyes of, effects of dose on strontium-90 β, 24:48708
radioinduced cataracts in eyes of, effects of dose on latency period of γ and neutron, 23:22392 (CEA-CONF-1173)
radioinduced cataracts in eyes of, effects of dose and LET on RBE for cobalt-60 γ, 2.5 and 14 MeV neutron, and 3 GeV proton, 25:55317 (CEA-CONF-1744)
radioinduced cataracts in eyes of, effects of pupillary meiosis on laser, 24:41985
radioinduced cataracts in eyes of, microwave, 23:29778
radioinduced cataracts in eyes of, RBE for 14-MeV neutron, 25:27027
radioinduced cataracts in eyes of, RBE for fast neutron, 25:26945
radioinduced cataracts in eyes of, RBE of 14 MeV fast neutrons and γ rays for, 24:25559 (CEA-CONF-1481)
radioinduced cataracts in, comparison of RBE for, cobalt-60 γ and 15-MeV neutron, 23:33853
radioinduced cataracts in, RBE for proton, 25:49283 (CEA-CONF-1782)
radioinduced cataracts of eyes of, comparison of RBE of fast neutrons and gamma for, 25:21862
radioinduced cellular depletion in marrow of, repair of x, 23:35907
radioinduced changes in brain temperature of, microwave, 23:41164
radioinduced changes in leukocyte preparations from, following whole-body exposure, x, 25:26901
radioinduced changes in renal blood vessels in, x, 24:21287
radioinduced changes in tissues of, effects of dose on x, 24:39554(T) (ORNL-tr-2317)
radioinduced chondrosarcomas in, effects of dose on x, 23:48245
radioinduced chorioretinal injuries in, exposed to lasers, 21:8953
radioinduced chromosome aberrations and mutations in male germ cells of, x, 25:16103
radioinduced chromosome aberrations in leukocytes of, effects of dose, in vitro, and in vivo exposure on γ, 24:27568 (CEA-N-1252)
radioinduced coagulation in choroid and retina of, laser, 24:27597
radioinduced coagulation of retina in eyes of, relation of pigmentation to argon laser, 23:31949
radioinduced corneal injury in, carbon dioxide laser, 24:14600
radioinduced cystitis in, effects of dose and hysterectomy on x, 23:20412
radioinduced degradation of deoxyribonucleoproteins of, in vitro effects of nuclease on, 25:13363
radioinduced dermatitis of, effects on lipoproteins and cholesterol content of, x, 21:10793
radioinduced destruction in tissues of, hyperglycemia following γ, 25:10969
radioinduced dominant lethals in sperm of, effects of dose rate on γ, 22:17022
radioinduced endomyocarditis in, whole-body x, 22:43446
radioinduced enlargement of kidney of, following unilateral nephrectomy, γ, 24:23365
radioinduced fibrosis of heart in, high-energy electron, 25:37893
radioinduced formation of lymphocyte chromosome-damaging factor in, placental transfer to fetal blood lymphocytes following x, 25:46791
radioinduced free radical in liver of, γ, 21:8739
radioinduced functional and morphological changes in eyes of, effects of dose on electron and γ, 23:50864
radioinduced heart disease of, effects of dose fractionation on acute x, 24:34683
radioinduced hemolysis of blood of, in hypotonic solution, γ, 23:7943
radioinduced heterotopic bone formation in lungs of, x, 25:58133
radioinduced increase in capillary permeability in skin of, effects of 6-aminohexanoic acid on x, 25:42617 (UR-49-1462)
radioinduced inflammation of eyes of, protective effects of urocanic acid against uv, 23:4999
radioinduced inflammation on skin of, protective effects of benzydamine against x, 25:26806
radioinduced inflammatory reaction in, uv, 21:16471
radioinduced inhibition of antibody formation in, x, 23:2919(R) (ANL-7409)
radioinduced inhibition of healing of mandibular fractures in, x, 25:11266
radioinduced injuries in cornea of, effects of wavelength on uv, 25:46978
radioinduced injuries in eyes of, electron and light microscopic study of laser, 21:28660
radioinduced injuries in eyes of, laser, 21:34797
radioinduced injuries in eyes, hair, and skin of, effects of pigment content on, laser, 21:11070
radioinduced injuries in lower jaws of, effects of dose and time on, 25:27003
radioinduced injuries of eyes of, laser, 25:16361(T) (JPRS-52274)
radioinduced injuries of skin of, repair mechanisms for beta and uv, 25:47027
radioinduced injuries to ciliary bodies of, electron microscopic study of fast neutron and x, 23:48218
radioinduced injuries to cornea of, effects of temperature on laser, 23:20395
radioinduced injuries to corneal tissues in eyes of, effects of dose on carbon dioxide laser, 24:885
radioinduced injuries to eyes of, protective action of Ascotodin against uv, 21:1792
radioinduced injuries to intestine of, γ, 24:34613 (BNWL-1050(Pt.1), pp 1.12-14)
radioinduced injuries to kidneys of, pathological study of x, 24:36826
radioinduced injuries to neck tissues in, following surgery and therapy, 25:42603
radioinduced injuries to skin of, exposed to lasers, 21:9001
radioinduced injuries to skin of, role of nervous system in development of x, 24:32256
radioinduced injury in skin of, effects of antihistamine, histamine, and 5-hydroxytryptamine on uv, 21:16472
radioinduced injury to cornea in, development of equations to determine threshold for CO_2 laser, 23:38768
radioinduced intravascular coagulation in, combined effects of endotoxins on Thorotrast, 23:38808
radioinduced kidney hypertension in, effects of function of vagus nerve on, light or uv, 25:4697
radioinduced laryngeal hypoplasia of, x, 23:31940
radioinduced lenticular damages to crystalline lenses of eyes of, neutron, 21:11103
radioinduced lesions in iris of eyes of, laser, 21:26621
radioinduced lesions in nerve trunk of, comparison of catgut and silk for suturing of, 24:48595
radioinduced lesions in retina of eyes of, histological analysis of laser, 22:569
radioinduced lesions in retina of eyes of, ruby laser, 22:19403
radioinduced lesions in retina of, ophthalmoscopic determination of threshold energy values for laser, 21:22679
radioinduced lesions in retinas of eyes of, mechanisms of light evoked electric responses in ruby laser, 25:19132
radioinduced lesions in skin of, threshold dose for laser, 21:34799
radioinduced lesions of retina in, threshold for argon laser, 23:33858
radioinduced leukopenia in, protective and therapeutic effects of marinamycin against x, 22:28561
radioinduced leukopenia in, x, 22:19437
radioinduced mutations in Belgian Giant, Chinchilla, and Vienna Blue, β, 21:45608
radioinduced mutations in, effects of germ cell stage on x, 24:50858
radioinduced necrosis in brain of, role of capillaries in alpha and proton, 22:23598 (UCRL-17481, pp 154-70)
radioinduced necrotic lesions in dental pulp of, laser, 24:46651
radioinduced neoplasms in, effects of age and dose on internal strontium-90 β, 23:38803
radioinduced neural stimulation in, comparison of effects of exposure site and dose rate on x, 23:38765 (AD-686649)
radioinduced nuclear pyknosis in lymphocytes of, use of, for evaluation of dosimetry, x, 22:38422 (EUR-3939)
radioinduced osteosarcomas in, effects of dose fractionation and exposure pattern on strontium-90 β, review of, 23:38805
radioinduced peritonitis in, treatment by antibiotics and surgery, x, 23:31923
radioinduced production of toxic reaction to paramecia in blood of, effects of polyvinyl alcohol on, 21:36499
radioinduced retinal lesions in eyes of, γ, 21:22688
radioinduced retinitis in, histopathology of whole-body x, 25:21893
radioinduced sarcomas in, two years after injection of Thorotrast, 23:26883
radioinduced stomatitis in, comparative study of electron, γ, and x, 23:10065
radioinduced suppression of secondary immune reaction in, x, 21:43343
radioinduced tumors in brain of, gold-198 β and γ, 22:25975
radioinduced ulcers in stomach of, x, 23:16400
radioisotope contamination of, by reactor implosion, 21:26415 (NP-16730)
radioisotope content of tissues of, iodine-131 and technetium-99, 24:12169
radioisotope content of, in Southeastern U.S.A., cesium-137 and potassium-40, 23:18017 (CONF-670503-, pp 623-6)
radioisotope distribution in blood and marrow of, positron camera methods for studying fluorine-18, iron-52, and iron-55, 24:784
radioisotope distribution in organs and skeleton of, effects of thorotrast on radium-224 and radium-228, 25:24033
radioisotope labeled particle clearance from lungs of, use of profile scanning and whole-body counting to measure, 22:25751
radioisotope metabolism in blood, bone, muscle, and skin of, effects of parathyroid hormone on calcium-47 and fluorine-18, 24:21066
radioisotope metabolism in tissues of, effects of physical form on americium-241 and plutonium-239, 25:37711 (ANL-7770, pp 149-56)
radioisotope metabolism in, kinetics of, 25:49090
radioisotope retention by, effects of cortisone on, 24:19320
radioisotope retention in cortical and trabecular bones in, comparison of calcium-45, radium-226, and strontium-90, 24:27502 (ANL-7615, pp 49-53)
radioisotope sorption by, cerium-144, cesium-137, and strontium-90 and yttrium-90, 25:6608(T) (AEC-tr-7169, pp 33-54)
radioisotope sorption from synovial cavity of, effects of drugs and temperature on, 23:9873
radioisotope transport across placental tissues following injection into pregnant, iodine-125 and -131, 22:40827 (ORO-657, pp 3-10)
radioisotope uptake from blood by bones of, in relation to rate in other animals, 24:31815 (ANL-7489, pp 77-81)
radioisotope uptake through tissue membranes in, following injection of hyaluronidase, iodine-131, sulfur-35, and thallium-204, 23:45638
radiolesions of, use of callicrein for treatment of cutaneous, 21:4815(R) (EUR-2477.f(Vol.3))
radiosensitivity in relation to volume of thoracic aorta endothelial cytoplasm, 25:11269
radiosensitivity of antibody-forming cells in, following whole-body exposure, 23:33651
radiosensitivity of ear tissue of, following sympathectomy, 21:32748
radiosensitivity of embryos of, determination of teratogenic period during, x, 21:14760
radiosensitivity of hearts of, 25:21897
radiosensitivity of leukocytes from, x, 21:427
radiosensitivity of lymphatic system and thymus of, x, 25:29635
radiosensitivity of lymphocytes in peripheral blood of, in relation to other animals, 22:19438
radiosensitivity of mechanism for bone marrow stem cell regeneration in femur of, dose response curve for x, 24:19362
radiosensitivity of nervous system of, relation between resistance and γ, 22:23658
radiosensitivity of primary antibody response in, role of lymphocytes in x, 21:28633
radiosensitivity of skin of, effects of temperature on topical x, 22:43403
radiosensitivity of ureters in, γ and x, 22:19449
radiosensitivity of, effects of alkaloids on, 21:36693
radiosensitivity of, effects of dose and seasonal changes on γ, 22:8640
radiospirometry in, procedure for xenon-133, 22:40578
radiotherapy of carcinoma of colon of, preoperative x, 22:10798
radiotherapy of intestinal V2 carcinomas in, pretransplantation, 23:35833
radiotherapy of lymph node tumor cells in, using gold-198, iodine-131, phosphorus-32, and yttrium-90, 21:24467
radiotherapy of neoplasms in, use of pulsed lasers for, 22:28594
radiotherapy of neoplasms of, use of phosphorus-32-labeled resin microspheres for, 21:10960
radiotherapy of retina in, using laser radiation in, 21:8969
radiotherapy of transplanted VX2 tumors in lymph nodes of, endolymphatic iodine-131 β, 23:38730
radiotherapy of tumors in lungs of, combined effects of hyperbaric oxygen on yttrium-90 β and γ, 22:38416
radiotherapy of tumors in, effects of oxygen on telecobalt γ, 22:28592
radiotherapy of Vx2 carcinoma implants in, in relation to protection of pelvis area, effectiveness of high-energy proton, 23:41392
radium-228 transport across placenta in, following injection of Thorotrast into maternal blood vessels, 24:23072 (CONF-690501-, pp 121-35)
radon daughter distribution in respiratory tract of, 25:39795(T) (AEC-tr-7232, pp 145-54)
radon decay product distribution in respiratory tract of, 24:44411
repair of skin wounds in, use of γ-radiosterilized plastic materials for, 24:933
resorption of γ-irradiated bone grafts in, ESR studies on, 25:52203
reticuloendothelial activity in, use of colloidal gold-198 to determine effects of bone marrow erythropoiesis on, 22:51307 (ORAU-106, pp 105-34)
ribonucleic acid synthesis in brain of, 22:38193(R) (EUR-3912)
ribonucleotides metabolism in liver of, given plutonium-239, free, 21:6424
sarcoma induction in tibias of, after intramedullary injection of zinc beryllium silicate, 21:32759
scandium-46-labeled polystyrene particles in lungs of, clearance of, 21:32596
scanning for gallium-67 localization in carcinomas and bacterial abscesses, 25:46928
scanning for localization of abscesses in, use of autologous chromium-51-labeled leucocytes for, 24:17103

  scanning for localization of placenta of, iodine-131-labeled human serum albumin, 23:38690
  scanning of x-irradiated bone marrow of, in function studies of erythron and reticulo-endothelial cells, use of iron-59 and metastable technetium-99 colloids for, 25:11112
  scintiscanning of bones and kidneys in, evaluation of indium-113 for, 22:40747
  scintiscanning of heart and kidneys of, use of rubidium-82 and positron camera for, 23:33770
  scintiscanning of lungs of, with iodine-131-labeled macroaggregated albumin, 21:36653
  selenium-75 content of blood of, following small doses, mechanisms for, 22:51379
  selenocystine metabolism in, in relation to scanning of pancreas, 24:11917
  sensitivity of cornea, liver, and skin of, following injection of uv-irradiated herpes simplex virus, 23:50961
  sensitization of, by use of x-irradiated serum and bovine erythrocyte cephalin, 21:6458
  serologic activity in, immunized with methylated albumins and irradiated DNA, uv, 21:4752
  stem cell formation in, effects of x-irradiated aminocaproic acid, pentosan SP 54, sanguina deproteinase, and SD-SK on, 22:16990
  strontium distribution in blood plasma and bone in, tracer study, 22:30999
  strontium-85 excretion by, effects of sodium citrates on, 21:45592
  strontium-85 sorption by, effects of activated barium sulfate on, 24:36688
  strontium-85 uptake by fetuses of, 22:38427(R) (ORO-659)
  strontium-90 content of bones of wild, in Czechoslovakia as indicator for biospheric contamination, 25:24139
  strontium-90 metabolism by, effects of isotope and non-isotope carriers on, 23:22174(T) (AEC-tr-6944, pp 194-204)
  strontium-90 metabolism in bones of, effects of rate of, on incidence of cancer, 21:45564
  strontium-90 metabolism in, effects of vaccination on, 24:7723
  strontium-90 metabolism in, in comparison to man, 21:45561
  strontium-90 uptake by teeth of, effects of age on, 21:32570
  sulfur-35 distribution in eye tissues of, effects of postexposure time on, 24:50701
  sulfur-35 uptake by tissues of eyes and nose in, effects of methyl prednisolone on, 22:25903
  surgery of, effects of renal, following x-irradiation, 21:28647
  surgery of, using laser beams, 21:8880
  survival of exposure to shock waves, dose dependency of, 21:28512(R) (DASA-1854)
  survival of, immunized with unirradiated and x-irradiated venom from cottonmouth moccasins, 21:8727
  synthesis of antibody and immunoglobulin by lymph node tissue cultures of, 23:22230
  synthesis of RNA in brain of, carbon-14 and tritium tracer study, 23:41204
  thiamine metabolism in, tracer study of, 21:10735
  Thorotrast clearance from blood of, 23:31623
  thorotrast clearance in, role of dextrin stabilizer in, 24:23098
  Thorotrast distribution in tissues of, 21:24579
  Thorotrast in, toxicity of injected, 21:24579
  thrombopoiesis in, use of selenium-75-labeled selenomethionine platelets for investigation of, 25:15991
  thyroiditis induced in, cellular kinetics of immune response during autoimmune, 23:50370(R) (SAN-410-88)
  tissue changes in, following infection with cobalt-60 γ-irradiated Pasteurella tularensis, 24:2589
  toxicity of ozone for, 22:40751
  toxicity of x-irradiated stored blood for, 22:51477
  transferase activity in tissues of, effects of embytol on, 21:1811
  transplantation of γ-irradiated bone tissue in, 23:959
  treatment of mice with antiserum from, effects of, on uptake of isoantibodies in liver, 23:43708(R) (NYO-2651-20)
  treatment of staphylococcus infections in irradiated, with bicillin, 21:22637
  tritium content of blood and urine of, following prolonged daily administration, 23:29315
  tritium exchange in organs of, kinetics of, 25:32347
  tritium retention in hair of, 25:10954
  tritium-labeled-thymidine in DNA in tissue cultures from, loss of, 21:24308
  uptake of radon-220 decay products by organs of, following inhalation, effects of organ affinity on, 23:47950
  uranium distribution in tissues of, following sorption through skin, relation of, to toxicity, 22:49242
  uranium oxide diffusion across placental tissues of, following intratracheal and oral administration, 25:4446
  uranium oxide excretion by mammary glands of, following intratracheal and oral administration, 25:4446
  uranium oxide toxicity to organs and tissues of, following acute and chronic intratracheal, oral, and subcutaneous administration, 25:4447
  uranium poisoning in, use of fluorescence microscopy for, diagnosis of, 22:21436
  uranium toxicity to kidneys of, mechanisms in, 23:6343(R) (COO-1691-3)
  uranyl acetates toxicity of to kidneys of, in relation to tubular function, biochemical lesions underlying, 24:14389(R) (COO-1691-5)
  use as source of antilymphocyte and antithymocyte sera for suppression of secondary disease in monkey x-radiation chimeras, 23:47994
  use of tritium for labeling sperm of, autoradiographic study following, 24:50661
  water content of, tritium dilution measurement of whole-body, 23:50297
  weight of lungs of, following exposure to shock waves, 21:28512(R) (DASA-1854)
  x ray quanta transduction into information transmitted by optic nerve in, identification of cells in retina responsible for, 22:23414(R) (ORO-3599-1)
  xenon-133 clearance from adipose tissues of, methods for measuring, 24:2553
  xenon-133 clearance from blood of paws of, with frostbite, use for prediction of tissue loss, 24:44407
  xenon-133 clearance from kidneys of, 22:4575
  xenon-133 distribution in tissues of, following inhalation, 22:51398
  xenon-133 distribution in tissues of, in vivo determination of, 22:4575
  zinc content of pancreas in, 22:6721(T) (UCRL-Trans-10099)
  zinc-65 content of newborn, in comparison with maternal, 25:21572
  zinc-65 distribution in body of, following oral administration in chloride form, 25:21572
  zinc-65 retention in, effects of leukemia on, 22:51308 (ORAU-106, pp 171-93)
  zinc-65 toxicology in, 25:21570
RACAH COEFFICIENTS
  book: Numerical Tables for 3j-, 6j-, 9j-symbols, F- and GAMMA-coefficients, 23:7351
  book: Spectroscopic and Group Theoretical Methods in Physics, 23:18766
  book: Tables of 9j Coefficients for Integral Values of the Parameters with One Parameter Equal to Unity, 23:7352
  calculation of Clebsch—Gordon coefficients for permutation group using Young operators, (T), 23:5959
  calculation of SU(3) Clebsch—Gordan coefficients, computer program for, 23:11042 (AECL-3182)
  equations for stretched x coefficients, 21:13927
  fractional parentage coefficients for nuclear jj-coupling states, methods for calculation of, (T), 23:28322
  graphical representation of, in fully consistent phase convention for angular-momentum coupling, (T), 25:39110
  graphical rules for Clebsch—Gordon coefficients and spherical harmonics, equivalence of, (T), 23:21381 (ZFK-130, pp 239-45)
  semiclassical limit of, 23:18765
  tables for calculation of nuclear two-body matrix elements using harmonic oscillator wave functions, (T), 22:46819 (NRL-6733)
  tables of Clebsch—Gordan coefficients, 22:42102 (UCID-2823)
  tables of, directory to, 21:10122
RACCOONS
  hormone secretion by thyroid of, determination of rate of, 22:21404 (COO-301-150)
  radioisotope content in, from Western New York Nuclear Service Center site, 24:31984 (DOCKET-50201-26)
  radioisotope content of, in environs of nuclear fuels reprocessing plant, cesium-137, sodium-22, 24:25438
RADAR
    see also Microwaves
  book: Radar Astronomy, 22:31592
  book: Studies of Aurorae and Upper Atmosphere by Radiophysical Methods (In Russian), 23:10489
  design and development of airborne, for detection and measurement of nuclear clouds, 21:24135 (UCRL-50195)
  design of high-power, for ionospheric research, 23:5332
  echoes from aurora, correlation of auroral particle precipitation with, 22:2942
  echoes from auroral region, simultaneous observaions with proton precipitation, (E), 25:55963
  echoes from ionospheric D region, 22:2959
  effects on living organisms, pathological, 23:24736
  emission of microwaves, permissible limits for exposure of personnel to, in France, 22:36267
  hazards of very high frequency, to man, 23:29865
  hazards to personnel, 22:40718
  performance of pulse Doppler, for studying storm circulation and precipitation scavenging, 25:26360 (CONF-700601-, pp 13-20)
  performance of, effects of nuclear explosions on, 21:10969
  plasma effects on, high altitude nuclear explosion-produced, 22:27946
  propagation of, nuclear explosion effects on ionospheric, 23:27428 (AD-680983)
  pulse return from ground and water surfaces for airborne, measurement of strength of, 22:10146 (SC-RR-67-502)
  radiation hazards from operation of, protection against, 22:23512(T) (LA-tr-68-12)
  radiation hazards from operation of, standards for protection against, 21:18135
  radomes for, fabrication of beryllia, 21:9211 (AD-638219)
  radomes for, performance of alumina, 21:26904
  reflection from areas in solar corona, (E), 23:34235
  reflection from nuclear clouds, method for calculation of, 23:33286 (AD-684918)
  reflection from solar corona, mechanism for, (E), 23:25073
  reflection from surface of Venus, (E), 23:16591 (AD-673604)
  return computational techniques for, 22:10152 (SC-TM-67-3006)
  safety of operators of equipment, 21:22508
  scattering by ionized media from nuclear explosions and reentry vehicles, (T), 23:9594 (SC-R-68-1874)
  scattering from ionized media from nuclear explosions on space vehicles, pulsed, (T), 24:3241
  scattering on aurorae, (T), 22:34384
  specifications for airborne, for detection and measurement of ice and nuclear clouds, 23:9629
  use for analyzing aurora ionization regions, 23:10489
  use for diagnosis of turbulent plasma, 23:5392
  use for surveillance of kinematic properties of squall lines, 21:25994 (ORO-3083-4, Pt.3)
  use for turbulent plasma diagnostics, 24:1378
  use in airborne lidar method for detection and analysis of clouds from underground nitromethane explosions, (E), 22:21227 (PNE-1119)
  use in observing auroras, 21:24991
  use in Project Pre-Gondola I explosion cloud studies, 21:39071 (PNE-1110)
  use with laser beams to monitor movement, reflectivity, and size of nuclear explosion clouds, 24:36448 (UCRL-13451)
  use with laser in tracking nitromethane explosion-produced clouds, 22:198 (PNE-1108)
  use with laser radiation for tracking debris clouds from nuclear cratering explosions, 22:47242 (UCRL-13360)
  use with laser radiation for tracking NERVA rocket reactor exhaust plume, (E), 22:47241 (UCRL-13358)
Radar Antennas
    see Antennas
RADIATION
    see also Alpha Particles
    see also Background Radiation
    see also Beta Particles
    see also Bremsstrahlung
    see also Cherenkov Radiation
    see also Cosmic Radiation
    see also Cyclotron Radiation
    see also Electromagnetic Waves
    see also Gamma Radiation
    see also Infrared Radiation
    see also Microwaves
    see also Natural Background Radiation
    see also Nuclear Particles
    see also Nucleons
    see also Particle Sources
    see also Photons
    see also Radiation Sources
    see also Radio Waves
    see also Solar Particles
    see also Synchrotron Radiation
    see also Thermal Radiation
    see also Ultraviolet Radiation
    see also Van Allen Radiation Belts
    see also X Radiation
  absorption by human tissues, records of, 24:29744 (DMRE-69-3, pp 82-90)
  absorption by iodine-125- and -131-, mercury-197- and -203-, and phosphorus-32-labeled pharmaceuticals, 22:37819
  absorption in gases, theory of line broadening, 21:18436
  absorption in isotropic media, diffuse field from, 21:11676 (AD-630121)
  absorption in matter, review of theory of, (T), 22:27393
  absorption in thermal shield of TES-3 reactor, heating by, (E), 21:21043
  absorption of, lectures on, (T), 22:35998 (ISS-68/6)
  absorption of, linear energy transfer in, method of calculating, 21:12874
  absorption of, review of physicochemical mechanisms for, 21:28337 (BNL-11358)
  accidents involving, proposed USA registry for, 25:55250
  angular distributions of, maximum likelihood method for fitting, 23:2721
  attenuation by fallout shelter roofs of, effect of mass thickness and angle fractions on, 21:14404 (PSDC-TR-16)
  attenuation in media, effects of fractional LET on, 22:8515 (CONF-670305-, pp 63-75)
  attenuation of initial, from nuclear explosions, effectiveness of soil for, 21:36190
  attenuation of, in shielding materials and concretes, 21:13302
  beam defining structure for, 21:26121(P)
  behavior in cosmological models, (T), 22:8928
  bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
  bibliography on biological effects of, 25:49220 (AD-722970)
  bibliography on entomological research using ionizing, 24:4675 (STI/PUB-21/36(Vol.4))
  bibliography on industrial uses of, 24:7589 (ORNL-IIC-22(Pt.3))
  bibliography on uses for therapy of neoplasms, 25:46929 (NEIC-RR-42(Vol.5))
  book: Action of Ionizing Radiation on Ion Exchange Materials, 22:10315
  book: Action of Ionizing Radiations on Water and Aqueous Solutions, 22:18858
  book: Allergies and Radiation, 23:50393
  book: An Introduction to Radioactivity for Engineers, 23:4797
  book: Applications of Radiation in France, Vol. I, in French, 21:8369
  book: Applications of Radiation in France, Vol. II, in French, 21:8385
  book: Atomic and Molecular Radiation Physics, 25:52889
  book: Atomic Energy in Industry, 24:39160
  book: Atomic Radiation and Its Effects on Health, 21:11111
  book: Basic Radiation Biology, 23:20109
  book: Biophysics and Radiobiology. Issue 2. Mechanism of Biological Effects of Ionizing Radiation, 24:12219
  book: Bone Marrow Transplantation During Radiation Injuries, 25:24067
  book: Bone Tumors in Man and Animals, 25:19136
  book: Chemistry of Dissociated Water Vapor and Related Systems, 22:25366
  book: Chronic Radiation Disease, 24:32264

book: Code of Practice against Radiation Hazards, 22:4628
book: Comparative Studies of Radiation Sickness and Its After-Effects, 23:5021
book: Comprehensive Biochemistry, Vol. 27. Photobiology, Ionizing Radiations, 22:49222
book: Current Topics in Radiation Research, Vol. 4, 22:40552
book: Defects and Radiation Damage in Metals, 23:24907
book: Dosimetry and Protection from Ionizing Radiation, 22:12650(T) (AD-663372)
book: Dosimetry of Ionizing Radiation, 22:21359(T) (AD-663930)
book: Dynamics of Post Radiation Death in Biological Organisms (Russian), 25:24372
book: Early Radiation and Biochemical Reactions, 22:40612
book: Effect of Ionizing Radiation on Heredity, 22:21473
book: Effects of Ionizing Radiations on Insects, 25:24316
book: Effects of Irradiation on Materials, 22:34092
book: Environmental Effect of Ionizing Radiation, 23:5009
book: Experimental Data on the Ionizing Radiation Effects on Organisms, 22:17020
book: Genetic Effects of Radiation on Mammalian Populations, 23:29457
book: Handbook of Applied Radioactivity, in German, 23:17501
book: Handbook of Recording Instruments for Ionizing Radiation, 21:17822(T) (AEC-tr-6709)
book: Industrial Hygiene Highlights, vol. 1, 24:31955
book: Intercrystalline Corrosion and Corrosion Cracking of Stainless Steel in Aqueous Solutions (In Russian), 25:11353
book: International Review of Connective Tissue Research. Vol. 4, 24:32211
book: Ionizing Radiation and Electronics, 24:19279
book: Irradiation Damage to Solids, 21:513
book: Irradiation Effects in Nuclear Fuels, 23:24967
book: Laboratory Handbook of Toxic Agents, 22:36289
book: Late Somatic Effects of Ionizing Radiation, 23:5032 (TID-24310)
book: Linear Transport Theory, 22:20104
book: Measurement of Nuclear Radiations by Means of Semiconductor Devices, 22:19130
book: Mechanisms Functioning in the Development of Radiobiological Effects, 25:21749
book: Mutagenesis of Agricultural Plants, 24:683
book: Nuclear Radiation and Atomic Reactors, in Russian, 22:35520
book: Nuclear Radioelectronics, 22:4546
book: Pathology of Irradiation, 25:29689
book: Problem of Mitogenetic Radiation As An Aspect of Molecular Biology, 23:43733
book: Problems in Postirradiation Recovery, 22:40976
book: Problems of General Radiobiology, 22:23650
book: Problems of Post Radiation Recovery (Russian), 25:24369
book: Protection Against and Repair of Radiation Injuries, 22:25930
book: Protection Against Ionizing Radiation : A Manual, 22:40730
book: Protection of Animals Against Injury by Nuclear Weapons, 25:58026
book: Radiation and Chemical Protection, 22:47574
book: Radiation and Dynamics of Highly Accelerated Charged Particles, 21:35377
book: Radiation and the Evolution of Populations, 22:40655
book: Radiation Biochemistry, 24:39558
book: Radiation Chemical Processing, 25:10617
book: Radiation Corrosion, 22:45750
book: Radiation Corrosion, 25:2603(T) (AEC-tr-7096)
book: Radiation Defectoscopy, 22:37959
book: Radiation Diseases of the Skin, 22:40816
book: Radiation Effects, 22:21733
book: Radiation Effects and Radiative Grafting Polymerization in Fibers, in Russian, 22:40128
book: Radiation Effects in Semiconductor Devices, 22:16971
book: Radiation Effects on Electronic Systems, 21:6398
book: Radiation Effects on Glass and Ceramics, in Russian, 25:59147
book: Radiation Effects on Inorganic Glass, in Russian, 22:35837
book: Radiation Effects on Semiconductors and Semiconductor Instruments, 23:41184
book: Radiation Effects on Stability and Ductility in Zinc Monocrystals (in Russian), 24:1059
book: Radiation Immunology and Transplantation, 25:42310
book: Radiation in the Atmosphere, 23:51532
book: Radiation Injury: Effects, Principles, and Perspectives, 24:9961
book: Radiation Interactions with Solids, in Russian, 21:42205
book: Radiation Penetration of Matter, 22:34889
book: Radiation Penetration of Nonhomogeneities in Shielding, in Russian, 23:48960
book: Radiation Physics of Nonmetallic Crystals (in Russian), 22:24491
book: Radiation Physics. IV. Ionic Crystals, in Russian, 21:24034
book: Radiation Physics. Part V. Luminescence and Defects of Ionic Crystals, 22:26535
book: Radiation Processes in Plasmas, 21:25155
book: Radiation Safety Manual, 23:29544 (THAI.-AEC-1(Rev.1))
book: Radiation Stability of Lacquer Coatings, 25:58420
book: Radiation Techniques, Vol. 1 (In Russian), 22:19076
book: Radiation Toxins: Their Nature and Role in the Biological Effect of High-Energy Radiation, 22:40944
book: Radiation-Induced Defects in Solids and Liquids, in Russian, 22:20095
book: Radioinduced Processes in Solids (In Russian), 24:39726
book: Radioisotope Experiments for Schools and Colleges, 21:43202
book: Radiotoxins, Their Properties and Role in the Biological Effects of High Energy Radiation, 21:36745
book: Reactor Material Science (In Russian), 23:43938
book: Role of Adrenal Glands in Biochemical Shifts During the Exposure to Small Doses of Ionized Radiation, 24:12267
book: Semiconductor Detectors of Nuclear Particles and Their Applications, 22:2384
book: Shielding Against Ionizing Radiation from Nuclear Explosions (in Russian), 25:15863
book: Studies in Radiation Effects in Solids, Vol. 3, 24:21862
book: Studies in Radiation Effects. Series A. Physical and Chemical. Vol. 1, 22:36516
book: Subcortex Brainstem Functions Under the Effects of Irradiation, 23:16383
book: The Biological Effect of Penetrating Radiation, 25:24370
book: The Chemical and Biological Action of Radiations, 10th Series, in English and French, 21:15960
book: The Chemical and Biological Actions of Radiations, 25:177
book: The Mechanism of Radioinduced Reactions, in Russian, 23:4708
book: The Photographic Action of Ionizing Radiations, 24:2455
book: The Principles of Radiation Biology and Biochemistry, 23:5007
book: The Relative Biological Efficiency of Radiation. Radiation Time Factor, 23:50884
book: Transmission and Absorption. A General Rule for Ionizing Radiation, 25:6705
characteristics of nuclear, for measurement applications in engineering, 21:28176
classification of corpuscular and wave, (T), 21:11720 (ISS-66/27)
coherence properties of electromagnetic, review of quantum theory of, 23:36478
coherent states of field of, (T), 21:7390
conference on biological effects of, 25:27036 (CONF-691057)
conference on biophysical aspects of, 24:14476 (STI/PUB-171)
conference on bone marrow, abstracts of papers from, 24:647
conference on control of immunity by, 24:34140 (STI/PUB-175)
conference on early effects of, in biology and chemistry, 24:36267 (COO-38-738)
conference on estimation of effects of low-level ionizing, in human populations, 25:47012 (ANL-7811)
conference on innovative applications of, Dallas, Texas, April 22 to 23, 1971, 25:51711 (CONF-710428)
conference on molecular structure and radiation effects, Hanover, June 2 and 3, 1966, 23:13769
conference on photobiology, abstracts from 1968, 24:19297 (CONF-680843-(Absts.))
conference on use as immunosuppressive agent, 24:623
configuration of a mixture of ideal gas and, in general relativity, 23:14435
content of environment, effects of use of radioisotopes on, 23:2842
corpuscular-radiation source during low solar-activity years in ionospheric E region, (E/T), 25:24959
cosmological models containing matter and, open, (T), 23:1145
cosmological models containing, classification of, (T), 24:32607
counting experiments for, trend removal in data from, 22:2356
coupling with matter in supernova envelopes, relativistic covariant equations for, (T), 24:15031
cytological evaluation of dose rate effects on mutation frequency from, 21:20135
damage in crystals, model generalization for thermal motion during, 23:48972
damage in semiconductors and components, review of, 23:39540
damage in solids, method for calculating simultaneous defect production and annealing, 23:48965
damage processes in ionic solids, review of color center aspects of, 23:18729
damage processes of, review of, 22:19590
damage theory, review of atomic interaction potential calculations for, 23:48964
data recording for hospitals, methods and responsibility for, 24:29775 (DMRE-69-3, pp 184-91)
data recording for medical, letters on, 24:29773 (DMRE-69-3, pp 363-82)
density in early and present Universe, (T), 24:12620
density in early Universe, (T), 21:33092
density perturbations in cosmological models, (T), 22:34169
detection and measurement by liquid scintillation counting, sample preparation for, 23:35002 (NP-17919)
detection and measurement in Pioneer plasma analyzer, performance of equipment for, 25:4243
detection and measurement methods for, 25:39717
detection and measurement of, 21:12373
detection and measurement of low-level, facility for, 22:14433 (ORNL-4196, pp 66-89)
detection and measurement of pulsed ionizing, electron-optical method for, 22:36067
detection and measurement of pulsed, use of information theory of discrete systems for, 22:21324
detection and measurement of, Bayes estimation principle for, 25:15891
detection and measurement of, design, fabrication, and performance of transistorized equipment for, 21:34545
detection and measurement of, effects of geometric factors on, 22:6598
detection and measurement on skin, performance of hand and foot monitors for, 22:36277
detection and measurement techniques for, lectures on, 23:24431 (TUBIK-9)
detection and measurement, nomograms for counting rate and resolving-time errors, 24:51776
detection in work area of personnel, discussion on advantages and disadvantages of different methods for, 21:18053
detection of environmental, use of ionization chamber for, 22:12578
detection of ionizing, fundamental deficiencies in use of photographic film dosimeters for, 21:22171(T) (AEC-tr-6712)
detection of ionizing, use of supercooled liquids for, 23:43556
detection of ionizing, use of zinc-activated calcium iodide phosphors for, 21:41274(P)
detection of low-energy, by real-time correlation of noise-derived probability functions, 23:19967
detection of pulsed high-energy, use of pulsed and mean-current detectors for, 22:4444
detection using scintillating plastic inserted in eye of dogs, efficiency of, 22:31119
developments in technology of, review of, 24:50524
diffusion in a plane-parallel layer, nonequilibrium, (T), 23:3188
diffusion in plane layer of finite thickness, matrix equations for, (T), 23:3240
diffusivity factor for stratified media, (T), 23:12670
distribution around beam hole of RA reactor, measurement of spatial, 21:23730(T) (JPRS-39787)
distribution in multistory structure, (E/T), 23:1501 (AD-671888)
distribution of net solar, in soybean canopies, effects of row-spacing on vertical, 21:28685
dose absorbed by man following uptake of radium-226 or radium-228, methods for calculation of, based on computer analysis of radioisotope decay scheme, 25:24427 (MIT-952-7, pp 1-156)
dose absorbed by tissues following interstitial administration of radioisotopes, method for computer analysis of decay data for calculation of, 25:39866
dose and dose-effect relationship on predicting, 21:6517
dose calculation at site of human organs using tissue equivalent phantom, absorbed, 25:11067
dose calculations following reactor accidents, PILAX code for, 25:44135 (CEA-R-4136)
dose calculations for infinitely thin source situated on boundary between two media, 25:55233
dose calculations for, followng release at reactors, comment on Gaussian distribution used for downwind, 25:49187
dose determination in structure shielding experiments, far-field, (T), 23:36770
dose distribution for tumor therapy, mathematical formula for optimal, 24:14560
dose distribution from multifocus source and sieve plates in phantoms in relation to therapy of subcutaneous tumors, 24:34546
dose distribution in gonads, liver, spleen, and whole body following radioisotope scanning of liver, 25:527
dose distribution in human tissues, 25:42454
dose distribution in lungs of mammals following radioisotope inhalation, model for carcinogenic effects of, 24:27674 (CONF-691001-, pp 285-303)
dose distribution in man following ingestion of contaminated aquatic food, 24:48526 (CEA-CONF-1548)
dose distribution in phantom, calculation of, from photon fluence, 23:45753
dose distribution in static fields, methods for planning optimal, 24:36761
dose distribution in tissues, computer calculations of, for use in therapy, 24:31986
dose distribution of high-energy, use of p—n junction diodes for measuring, 21:45387
dose distribution planning for megavolt therapy, methods for, 25:58007
dose distributions to tumors during therapy, planning for, 23:9990
dose during therapy, use of digital computers to calculate integral, 25:32427
dose effect relations for, interpretation of, 21:22422
dose equivalent and quality factor of mixed, methods for simultaneous measurement of, 21:26149 (INR-777/XIX/D)
dose equivalent calculations for use of gas from Gasbuggy well, effects of rate of gas withdrawal on, 23:38569(R) (ORNL-TM-2657)
dose equivalent determination for mixed fields of, using LET-dependent detectors, 21:4811
dose equivalent estimation from current variation in proportional detectors, 23:47846 (NYO-2740-6, pp 145-65)
dose equivalents and energy transfer to tissues, definition of ionizing, 23:50553
dose equivalents for human population from radioisotopes produced by nuclear excavation, safety feasibility study of, 23:33718
dose field behind steel shield, mixed, 22:34734
dose for sterilization of disposable blood donor sets and syringes, 23:29922 (RISO-122)
dose for therapy of carcinomas of human pharynx, optimum ionizing, 24:21161
dose for therapy of leukoplakia of human vocal cords, 23:29707
dose fractionation for therapy of human mediastinal lymphomas, ionizing, 25:11226
dose from detonation of nuclear weapons, methods for estimation of initial and residual, 25:24135
dose from isotopes, review of basic biological concepts of, maximum permissible, 21:12831 (CMN-Pub-2/65)
dose in biological materials, recommendation of new quantitative term for expressing, 25:46847

dose irregularities during neutron capture therapy, local, 25:55212
dose measurements in bladder and rectum during therapy for gynecological tumors, methods for, 25:44878
dose measurements in salt surrounding Project Salt Vault-disposed high-level solid radioactive wastes, 25:51778
dose measurements of tangential stationary fields in water phantoms, use of digital computer for, 25:49189
dose measurements using plastic-scintillator phantom, integral, 21:43380
dose of, received by medically and professionally exposed individuals residing in East Germany in 1965, 21:1746 (SZS-9/66)
dose rate around punctiform particles in tissues, distribution of, 24:34330
dose rate distribution on surface of reactor shields, method for calculating, 21:17529
dose rate effects on response and recovery from clinical exposure, 21:30862
dose rate for therapy, calculation of, 23:38592
dose rate in biological materials, reaction rate constants for calculation of ionizing, 24:46615
dose rate in space vehicles, comparison of measured-to-calculated, 21:37533
dose rate to fuel reprocessing personnel following fuel particle inhalation and skin contamination, correction factors for measuring true, 25:35140
dose rates from energetic environmental, behind various shield thicknesses, 21:23237 (N-67-14461)
dose rates from fallout, effects of far-field contributions on shelter shielding design, 21:36314 (TO-B-67-25)
dose rates from fission products in fallout from atmospheric nuclear explosions, calculation of, 25:55231
dose rates of plutonium, surface, 21:19893 (BNWL-339)
dose standards for public exposure, rationale for, 24:7912
dose to adjacent tissues during therapy in man, use of filters to reduce, 24:48553
dose to aircraft crew and passengers during shipping of radioactive materials, control of, 25:48841 (CONF-710801-(Vol.2), pp 564-91)
dose to airport personnel from intransit radioactive materials, 25:11062
dose to aquatic ecosystems and man, standards for protection against, 23:22317
dose to astronauts during Apollo 12 and 13 missions, use of neutron activation and gamma-ray analysis to determine, 25:52071(R) (N-71-24257)
dose to astronauts during duty on space stations, effects of shielding during solar flares on, 25:58025(T) (ORNL-tr-2490)
dose to astronauts during prolonged space flight, calculation of justifiable, 24:721
dose to astronauts during space flight, development of criteria for limits of, 24:21189
dose to astronauts during space flight, measurement of absorbed, 23:31750(T) (N-69-20924)
dose to astronauts of USSR Soyuz-9 space ship, preflight calculations of, 25:58006
dose to biological materials in relation to LET spectra, ionizing, (T), 23:9833(R) (NYO-910-69)
dose to biological materials, equivalence nomograms for fractionation in, 25:11071
dose to biological materials, statistical analysis of absorbed, 23:50510
dose to blood and skin of cancer patients, 24:48521
dose to blood during extracorporeal irradiation, comparison of two mathematical models for calculation of, 23:35743
dose to bone marrow of perspex phantom, use of dose concept to calculate ionizing, 23:43771
dose to bones and body of man following release of radioisotopes to biosphere, method for calculation of ionizing, 25:26751 (UCRL-50163(Pt.7))
dose to dental and medical personnel, method for recording of, 23:33732
dose to digestive tract and gall bladder in man following radiography, protective effects of luminosity amplifier against, 24:2660
dose to gonads of man during therapy, 25:26759
dose to hands of medical personnel during administration of radioisotopes, 25:49197
dose to hands of medical personnel injecting radioactive solutions, method for estimation of, 25:52081
dose to hospital personnel from handling short-lived radioisotopes, 25:26763
dose to human blood from radioisotopes, 24:50890 (CONF-691212-, pp 325-46)
dose to human gastrointestinal tract following ingestion of radioisotopes, dynamic methods for calculation of, 24:48558
dose to human gastrointestinal tract from drinking water, system for continuous monitoring of potential, 24:44496
dose to human gonads and skin during dental radiography, measures for reducing, 24:34372
dose to human gonads and skin during radiological examinations of intestine and stomach, 25:13580
dose to human gonads and whole-body during radiodiagnosis, estimation of, 25:35179
dose to human gynecological organs from Ogier-Scarpa applicator during therapy, electronic calculation of, 25:24169
dose to human lungs and pulmonary lymph nodes following acute or chronic inhalation of insoluble plutonium-239, method for calculation of, 25:58001 (UCRL-73388)
dose to human lungs from uranium fuels, calculations of maximum permissible, 24:2665
dose to human organs during scintigraphy in relation to morphology and physiology of organ, 23:33772
dose to human organs following administration of radioisotope-labeled pharmaceuticals, tabulation of absorbed, 24:44505
dose to human organs, terminology for expressing, 25:55251
dose to human patient during medical radiography using polaroid photographic equipment, 24:17079
dose to human patients and personnel during therapy, record keeping for, 24:29745 (DMRE-69-3, pp 138-46)
dose to human population from consumer products containing radioisotopes, analysis of procedures for control of external and cumulative, 25:19015
dose to human population from medical diagnosis, 24:9963
dose to human population from waste disposal at Hanford, 23:29464 (BNWL-983)
dose to human population in environs of EUROCHEMIC in Belgium, calculation of, 24:7821
dose to human population in environs of nuclear installations, criteria for development of program for control of, 24:7849
dose to human population in environs of U. S. harbors docking nuclear-powered ships during 1968, use of film badges to monitor, 24:2668
dose to human population in New Zealand from medical and occupational exposure through 1969, annual, 25:46824 (NP-18952)
dose to human population in vicinity of Hanford plant during 1969 from controlled release of radioactive wastes, 25:16129 (BNWL-1505)
dose to human population, discussion of health hazards of diagnostic and industrial, 24:32028
dose to human population, estimates of present and future, 25:44810
dose to human population, requirements for establishing standards for, 24:41904
dose to human populations following nuclear explosions and reactor accidents, 24:41733 (ANL-7635, pp 93-114)
dose to human populations following release of radioisotopes to atmosphere during reactor accidents, computer method for calculation of, 25:42393 (BNWL-B-69)
dose to human populations from artificial and natural sources, 25:19137
dose to human populations from consumer products containing radioisotopes, standards for regulation of, 24:46618
dose to human populations from fallout during 1969, estimates of, 25:42691
dose to human populations from nuclear explosion fallout, estimation of, 23:2827
dose to human populations from nuclear weapons testing, estimation of, 24:7823
dose to human populations from Project Rulison releases, estimation of potential, 24:48544 (SWRHL-96)
dose to human populations in Colombia and Panama following ingestion and external exposure from use of nuclear explosives for proposed construction of interoceanic canal, estimation of, 25:11055 (ORNL-4579)
dose to human populations in environment following reactor accident, calculation of, for use in technical safety evaluation of planned reactor site, 23:35730(T) (ORNL-tr-2157)
dose to human skeleton and whole body during bone scanning using metastable barium-135, method based on decay data for calculating absorbed, 25:49198
dose to human skeleton following uptake of radium-226 and radium-228, effects of time on carcinogenicity of, 25:21906 (ANL-7760(Pt.2), pp 1-17)
dose to human tissues during medical radiography, 23:45826
dose to human tissues following administration of radioisotope, equations and tables for calculation of absorbed, 24:50918
dose to human tissues from uptake of radioisotope-labeled organic compounds, development of biological model for kinetic analysis of, 24:50885 (CONF-691212-, pp 225-38)
dose to kidneys, skeleton, and thyroid of man following ingestion or inhalation of radioisotopes, 23:26806
dose to lens of human eyes, effects of age and dose fractionation on maximum safe, 25:11284
dose to man during diagnostic procedures in England, methods for reducing, 24:12073
dose to man during kidney scintigraphy using iodine-131, 25:21764
dose to man during medical radiology, factors affecting standards for, 24:50892 (CONF-691212-, pp 399-411)
dose to man during radioisotope scanning, hazards from, 23:50713
dose to man during therapy, computer method for calculating integral, 25:42415
dose to man during therapy, effectiveness of autologous bone marrow infusions for permitting higher, 25:49250(R) (AD-714490)
dose to man during therapy, use of ultrasonic scanning to determine, 24:44580
dose to man during travel on high-altitude supersonic aircraft, 25:58138
dose to man following fission product release to atmosphere during reactor accidents, computer program for use in calculations of, 25:46814 (BNWL-B-69(App.E))
dose to man following ingestion of bananas in vicinity of canal excavation by nuclear devices, use of computers for predicting, 23:17985 (CONF-670503-, pp 731-9)
dose to man following ingestion of food from contaminated freshwater food chain, correlation between MPC for radioisotopes in freshwater ecosystem and, 25:26747
dose to man following ingestion of nuclear debris-contaminated aquatic organisms, calculation of whole-body, 25:39808
dose to man following inhalation of fission products, computer methods for calculation of, 25:6701 (SC-RR-70-338)
dose to man following inhalation of radioactive aerosols, 24:50922
dose to man following maximum credible reactor accident, effects of meteorological conditions on, 23:455 (ANL-7360, pp 149-84)
dose to man following medical, protection against, 24:17055
dose to man following radiography of gastrointestinal tract, review of, 24:708
dose to man following uptake of radioisotopes released during underground nuclear explosion, computer method of calculation of, 25:49195
dose to man following uptake of radium-226 and radium-228, methods for calculation of, 25:24427 (MIT-952-7, pp 1-156)
dose to man from artificial and natural sources, annual, 22:28464
dose to man from artificial and natural sources, evaluation of, 21:12850
dose to man from environmental release of radioisotopes, method for estimation of potential, 24:6031
dose to man from fallout contaminated aquatic food, method for estimation of, 23:12074 (UCRL-50163(Pt.5))
dose to man from fission product release in uranium fueled reactor accidents, 21:30175 (WAPD-TM-599)
dose to man from food of marine origin, maximum permissible, 24:34215
dose to man from ingestion of seafood contaminated with fallout, 24:12036 (BMI-171-123)
dose to man from inhalation of radioactive aerosols, 23:45760
dose to man from internal sources, Monte Carlo calculations of photon, 24:50876 (CONF-691212-, pp 33-49)
dose to man from internally deposited radium in relation to incidence of neoplasms, whole-body, 23:38799
dose to man from labeled pharmaceuticals, establishment of standards for, 24:50893 (CONF-691212-, pp 473-9)
dose to man from low-level environmental contamination, model assessment of, 25:16174
dose to man from medical use of radioisotopes, 24:50894 (CONF-691212-, pp 481-9)
dose to man from natural and artificial sources, 25:24430
dose to man from natural sources at spas of Misasa and Masutomi, Japan, estimation of, 25:4711
dose to man from nuclear excavation projects, monitoring methods for prediction of potential, 25:44479 (UCRL-51068)
dose to man from nuclear power plants, calculations of, 25:26741
dose to man from radioactive contamination of environment by nuclear excavation, 24:9827 (CONF-690303-, pp 75-94)
dose to man from radioisotope contamination of aquatic ecosystem following nuclear excavation, method for estimating maximum internal, 24:9827 (CONF-690303-, pp 75-94)
dose to man from radioisotope use in medicine, 24:29751
dose to man from radioisotopes released by Milrow nuclear detonation on Amchitka Island, marine-transport and specific-activity models for predicting internal, 25:49116(R) (BMI-171-138)
dose to man in home heated with Gasbuggy-produced gas, 25:24156(R) (ORNL-TM-3338)
dose to man in nuclear medicine, development of equipment and methods for reducing, 25:32502
dose to man in orbital flight, tables for rates of, 24:34324
dose to man in relation to internal exposure, ICRP standards for maximum permissible, 24:23230 (SWRHL-82, pp 508-28)
dose to man in relation to strontium-90 content of bones at autopsy in leukemia affliction, medical, 23:33720
dose to man in vicinity of nuclear excavation projects, computer method for calculating, 25:29516 (UCRL-50990)
dose to man in vicinity of nuclear fuel reprocessing plant, estimation of, 25:55237
dose to man near nuclear power plant sites, interpretation of emergency, 25:55242
dose to man, data and methods for estimating external and internal, 24:50934
dose to man, effectiveness of single dosimeter worn on chest for assessing whole-body, 25:46848
dose to man, effects of body burden of mercury radioisotopes on, 23:31812
dose to man, ICRP standards for maximum permissible, 24:710
dose to man, in relation to radiosensitivity, 22:8598 (CONF-670305-, pp 289-96)
dose to man, measurement and detection devices for maximum permissible, 23:45741
dose to man, natural background and medical exposure, 25:42711
dose to man, plutonium surface contamination levels for, 25:55195 (CONF-710401-, pp 352-64)
dose to man, regulations for maximum permissible, 25:26764
dose to man, role of health physics in reducing, 22:23528
dose to man, use of count of binucleated lymphocytes for, 23:12233
dose to man, use of direct or indirect periodic measurements of internal radioactivity to calculate chronic internal, 25:49175 (EUR-4330)
dose to medical personnel during interstitial therapy of cervical carcinomas under two different treatment plans, comparison of, 25:42432
dose to medical personnel during preparation of iodine-125, iodine-131, technetium-99, and xenon-133 for tracer studies, 25:46840
dose to medical personnel, estimation of average annual, 24:25484 (LFEN-98-a)

dose to medical personnel, organizational methods for reduction of, 22:43334
dose to normal tissue relative to tumor tissue during therapy, problems concerning nominal standard dose concept for expressing, 25:49181
dose to nuclear personnel in Pakistan, average, 24:44497
dose to organs of animals and man, use of dose equivalent per unit fluence for calculations of, 25:21689
dose to patient and personnel during interstitial therapy, preparation of iridium-192 wires to reduce, 24:7969
dose to patient and personnel during medical use, legal control of record keeping for, 24:29772 (DMRE-69-3, pp 349-61)
dose to patient during therapy, calibration of dosimeters to measure, 23:31782
dose to patients during diagnostic radiology, improved physician training as a method for reducing, 24:34360
dose to patients during fluoroscopy, effects of experience of physician and age, sex, and weight of patient on, 24:34344
dose to patients during fluoroscopy, review on methods for reducing, 25:35142
dose to pelvic organs during radium therapy for uterine cancer, 25:24277
dose to periphyton at different depths in Columbia River, measurement of, 24:50675 (BNWL-1306(Pt.2), pp 3.1-25)
dose to personnel at AECL sites during 1966, 21:36561 (AECL-2678)
dose to personnel at nuclear research center Juelich in 1968, use of film dosimeters and ionization chambers for determining, 24:36753 (JUL-603-ST, pp 101-8)
dose to personnel at ORNL during 1969, report on external and internal, 24:48576(R) (ORNL-4563)
dose to personnel during emergency exposure, criteria for establishing maximum permissible, 24:7890
dose to personnel during transport of radioactive materials by truck, 24:39511 (RT/PROT-(70)7)
dose to personnel following accidents, criteria for estimation of external and internal, 24:7853
dose to personnel following exposure to accelerated charged particle beams, use of scintillation counting of induced activity in estimation of, 25:52073 (UCRL-20262)
dose to personnel following plutonium uptake, methods for estimation of, 24:7863
dose to personnel following research reactor accident, methods for estimation of, 24:7858
dose to personnel from internally deposited radioisotopes, use of mobile whole-body counter for measurement of, 23:31758
dose to personnel handling radioactive materials, IRC recommendations for somatic, 25:2574
dose to personnel handling radioisotopes in Poland, 23:26802
dose to personnel in areas around radioactive objects, estimation of, 25:54987
dose to personnel in industry, medicine, and research, 23:38570
dose to personnel in medicine and industry in Yugoslavia during 1962 to 1967, 25:52095
dose to personnel in United Kingdom, registration of excessive doses, 24:7907
dose to personnel of nuclear power plants, 24:50945
dose to personnel, analysis of external, 23:4966
dose to personnel, efficiency of instruments for measuring ionizing, 25:21716
dose to personnel, need for dose records and medical supervision in cases of low level, 23:33711
dose to personnel, standards for record systems for, 25:29519
dose to personnel, use of uranium content of urine as indicator of, 23:2827
dose to perspex phantom, use of dose concept to calculate ionizing, 23:43771
dose to population of Great Britain, critical pathway for establishing environmental, 23:50545
dose to populations during nuclear accidents, evaluation of absorbed, 24:7836 (RT/PROT-(69)17)
dose to populations of Hiroshima and Nagasaki, correlation between incidence of gastric carcinomas and, 25:49311
dose to professional personnel handling radioisotopes in Germany during 1968, statistical evaluation of, 24:23183 (NP-18122, pp 105-25)
dose to public from waste disposal operations at Nuclear Fuel Services, 25:52060
dose to radiography personnel, effectiveness of protective clothing for reducing, 25:29529
dose to radiological personnel in Finland during 1965 to 1967, measurement of, 23:29504 (SFL-A-11)
dose to railway station personnel from packages containing radioactive materials, 24:41888
dose to reactor personnel, maximum permissible, 21:8835
dose to region of Sacavem from external fission product deposition during 1964 to 1968, method for calculating, 24:46614
dose to respiratory tract of uranium miners from inhalation of radon daughters, calculation of exposure in working level months for, 24:17051
dose to somatic tissues in man during dental, radiology, 23:24756
dose to stem cells of bone marrow in perspex phantom, use of dose concept to calculate RBE for ionizing, 23:43771
dose to surrounding tissues during therapy of tumors in man, fractionation effects on, 24:887
dose to tissues following radioisotope ingestion, 24:11897
dose to tissues of personnel following internal radioisotope contamination, ICRP report on, 25:16148
dose to tissues, specifications for ionizing, 22:28288 (ORNL-4100, pp 166-77)
dose to uranium processing personnel, factors affecting, 23:29535 (CONF-680503-6)
dose to world-wide human population during 1970, 25:52067 (A/CONF.49/P-851)
doses of, use of meteorological data for determining reactor off-site, 21:41018 (DP-MS-67-69)
dosimeter system for manned space vehicle, 22:201 (AD-646555)
dosimetry during therapy, development of method using auxiliary diagrams for, 24:48555
dosimetry following use of DTPA chelates of chromium-51, gallium-68, indium-113m, and ytterbium-169 for kidney scanning, whole-body, 24:12177
dosimetry for accidents, 22:28681
dosimetry for chromosome aberrations in cultured lymphocytes, 24:19312
dosimetry for differential scanning using two radioisotopes, 23:33771
dosimetry for environment and personnel at Karlsruhe nuclear center, use of phosphate glass dosimeters for, 24:23197
dosimetry for Hanford Reservation and environs during 1967, 23:33702 (BNWL-983(App.))
dosimetry for high-energy therapy, use of computer calculations for, 25:24158
dosimetry for hyperbaric oxygen therapy, 23:41329
dosimetry for individual personnel, photographic method for ionizing, 24:34325
dosimetry for internal radioisotope contamination in relation to ICRP standards, 23:16305
dosimetry for interstitial and intracavitary implant therapy, review of computer, 24:31987
dosimetry for man, role of health physics in developing methods for, 22:23528
dosimetry for moving field therapy, grid calculations for, 24:50907
dosimetry for personnel, use of changes in blood cells for low-dose ionizing, 25:16189
dosimetry for protection planning, calculations based on transport theory for ionizing, 23:35740
dosimetry for radioisotope uses in medical diagnosis and metabolic studies, computer program for, 25:8716
dosimetry for radioisotopes, development of three-dimensional scheme for, 23:20193 (CONF-680507-, pp 340-5)
dosimetry for radium implant therapy of cervical carcinomas, 24:14563
dosimetry for rotation therapy, computer program for planning, 23:26801
dosimetry for therapy in man, use of linear programming for, 24:14491
dosimetry for therapy of benign diseases in man, 24:23277
dosimetry for therapy using computers, effects of input data on accuracy of, 24:44490
dosimetry for therapy, design of recorder for determining, 24:12074
dosimetry for therapy, evaluation of Roentgen equivalent therapeutic (ret) units for expression of nominal standard dose (NSD) in, 25:42446
dosimetry for therapy, mathematical model for, 25:42437
dosimetry for therapy, use of computer calculations for, 24:31996
dosimetry for therapy, use of computer calculations for, 24:31997
dosimetry for therapy, use of computer calculations for, 24:31995
dosimetry for therapy, use of computer calculations for, 25:37851 (A/CONF.49/P-91)
dosimetry for therapy, use of computers in, 23:45837
dosimetry for therapy, use of roentgen equivalent therapeutic (ret) units for calculations of dose fractionation schedules for, 25:42414
dosimetry for therapy, use of roentgen equivalent therapeutic (ret) units for, 25:42413
dosimetry for tumor therapy, 25:13451
dosimetry from array of point sources for therapy of gynecological neoplasms, 23:29532
dosimetry in accident victims, use of biological responses for, 22:8517 (CONF-670305-, pp 94-113)
dosimetry in beagle dogs following injection of radioisotopes, tables for, 24:705 (COO-119-240, pp 7-85)
dosimetry in beagle dogs following injection of radioisotopes, 24:50677 (COO-119-241)
dosimetry in biological materials, methods for, 25:46752
dosimetry in biological materials, microscopic, 24:19322
dosimetry in biological materials, role of quality factors in, 22:38319
dosimetry in biological materials, units for, 22:17024
dosimetry in biological tissues,.design of tissue-equivalent proportional counter for micromeasurement of, 23:50492
dosimetry in bone-tissue interfaces, 22:38308
dosimetry in cells following repeated exposure, comparison of experimental and theoretical, 23:31760
dosimetry in Columbia River during 1967, 23:33702 (BNWL-983(App.))
dosimetry in flowing systems, 24:44027 (BNL-50205, pp 50-77)
dosimetry in gastrointestinal tract of man following ingestion of radioactive materials, measurement of, 22:49332
dosimetry in gastrointestinal tract of man, mathematical model for, 22:49333
dosimetry in human gastrointestinal tract, development of mathematical model for, 23:29497 (CEA-R-3707)
dosimetry in human skin, method for measurement of epidermis thickness for use during, 25:58000 (RD/B/R-1934)
dosimetry in human tissues, concepts and units for, 25:58002
dosimetry in man following accidental exposure, 22:6816
dosimetry in man in relation to expanding industrial applications of atomic energy, 24:9796 (CONF-690303)
dosimetry in man using chromosome aberrations, 24:46609(T) (LIB/Trans-277)
dosimetry in man using index of chromosome aberrations, 24:39503(T) (LIB/Trans-279)
dosimetry in man using lymphocyte chromosome aberrations, 22:40689
dosimetry in man, performance of film, photoluminescent, and thermoluminescent dosimeters for, 22:23523
dosimetry in microorganisms, methods for measuring, 25:4507 (EUR-4506)
dosimetry in paraffin and polyethylene phantoms, 60 keV to 1.25 MeV, 24:23207
dosimetry in personnel following accidental exposure, biological, 24:7856
dosimetry in radioisotope-labeled pharmaceuticals, 21:45772(R) (ACRH-27)
dosimetry in rat thyroid, 23:33708 (PHS-PUBL.-1809, pp 21-44)
dosimetry in skin, thickness corrections for, 24:12067 (RD/B/N-1480)
dosimetry in supervoltage therapy, 25:58077
dosimetry in tissue-equivalent gases, lower limits of energy transfer for ionizing, 24:44480 (EUR-4452, pp 303-26)
dosimetry in tissues on microscopic scale, theory of, 24:14499
dosimetry of fallout, equipment and methods for, 23:20185 (CONF-680507-, pp 165-9)
dosimetry of fallout, graphic representation for, 23:20195 (CONF-680507-, pp 362-75)
dosimetry of focal spot, modulation transfer function for, 23:31763
dosimetry of high energy electromagnetic, method for calculation of, 23:43776
dosimetry of human gastrointestinal tract following ingestion of radionuclides, mathematical model for, 25:19141
dosimetry of human lungs following inhalation of radioisotopes, effects of nonhomogeneous dispersion of focal sources and low energy of emissions on, 24:50864(T) (LF-tr-43)
dosimetry of internal emitters in man, method for, 24:12078
dosimetry of internal radioisotopes, in relation to uptake by personnel, 24:21184(T) (AEC-tr-7131)
dosimetry of ionizing, design of microcalorimeter for, 23:707(P)
dosimetry of ionizing, during space flight, 21:10198(T) (N-66-20195)
dosimetry of ionizing, equations for determination of, 21:41405
dosimetry of ionizing, in cells, use of micro-, (T), 23:844
dosimetry of ionizing, in space, (E), 25:49635 (AD-716843)
dosimetry of mixed, thermoluminescent dosimeter for, 22:47388(P)
dosimetry of multifield sources, analog system for combination of isodose curves for, 24:32008
dosimetry of, based on chromosome anomalies in lymphocytes, 21:6505
dosimetry of, by change in rotation of optically active materials, 21:5963
dosimetry of, by thermoluminescence of lithium fluoride, 21:5964
dosimetry of, chemical, 22:27832
dosimetry of, classification of ICRU international units for, 25:11064
dosimetry of, during diagnosis and therapy, 21:30918
dosimetry of, from excursion of critical assembly for Vulcain project, 21:8127
dosimetry of, from radionuclides in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
dosimetry of, methods for compensation for background during, 25:46851
dosimetry of, research at Radiation Bio-Effects Laboratory on, 23:33708 (PHS-PUBL.-1809, pp 21-44)
dosimetry of, review of, 21:8929
dosimetry of, review of use of chemicals for, 21:6311
dosimetry of, theories on, 24:46608 (JAERI-4047)
dosimetry of, units for internal, 21:10859 (CMN-Pub-2/65(Suppl.1))
dosimetry of, use of computer model of man for, 21:32633 (ANS-SD-4, pp 57-65)
dosimetry of, use of liquid dielectric ionization chambers for mixed, 21:43281
dosimetry of, using densitometers, 21:6607(R) (AD-632819)
dosimetry of, using magnesium sulfate:manganese thermoluminescent detectors, 21:6510
dosimetry under non-equilibrium conditions, use of influence functions for calculation of, 23:26796
dosimetry under protective grills used during therapy, formulas and method for, 24:46612
dosimetry using cell survival curves, 21:41361
dosimetry using sequential statistics, 24:4627
dosimetry, reference standards for, 22:51586
Eddington approximation for, three-dimensional form of, 22:21818
effect of, on thermal conductivity of solids, apparatus for measurement of, 21:6839
effect on energy levels of electron systems, Green's-function treatment of, 23:1195
effect on occurrence of abnormal molecules in urine, analysis for, 21:18119 (SZS-12/66)
effectiveness for food preservation in Germany in comparison to chemical additives, 24:34836
effectiveness for sterilization of medical supplies, effects of dose and dose rate on, 25:21992
effectiveness for sterilization of powdered food products, 25:52282 (A/CONF.49/P-628)
effectiveness for therapy of advanced head and neck neoplasms in man, combined effects of sequential high or low dose methotrexate treatment on, 25:13528
effectiveness for therapy of benign and malignant diseases in children, statistical evaluation of, 24:48651

effectiveness for therapy of cancer of cervix, 25:26871
effectiveness for therapy of cervical carcinoma in comparison to combined radiation and surgery, 25:21803
effectiveness for therapy of Ewing sarcomas and metastases in man, effects of dose on, 25:16261
effectiveness for therapy of giant cell tumors of human skeleton, review of, 24:7965
effectiveness for therapy of Hodgkin's disease in man in combination with stomach resection, evaluation of, 25:13541
effectiveness for therapy of human carcinomas, effects of age and stade distribution on, 25:32509
effectiveness for therapy of human metastases, comparison of single and fractionated dose, 25:44869
effectiveness for therapy of human tumors, effects of cell cycle synchronization on, 25:55306
effectiveness for therapy of lymphogranulomas in man, relation of recurrence latency to effects of dose and dose fractionation on, in relation to relapse time, 25:13543
effectiveness for therapy of primary vaginal carcinomas in man, effects of ancillary planning and procedures on, 24:46642
effectiveness for therapy of thrombophlebitis in man, 25:16238
effectiveness for therapy of vocal cord leukoplakia in man, effects of dose and histological condition on, 25:26868
effectiveness for treatment of glottic cancer at anterior commissure of larynx, 25:24279
effectiveness for treatment of medulloblastomas in children, dose fractionation schedules for post-surgical, 25:42593
effectiveness for treatment of neoplasms of human nasopharynx, evaluation of effects of dose and dose rate on, 25:37853
effectiveness in inducing chromosome translocations in Vicia, 25:55191
effectiveness of supervoltage, for therapy of human testicular tumors, 25:13544
effects at cellular and molecular level, 22:51875 (TID-4060(1st Ed.))
effects at molecular and cellular level in cultured cells, 22:43208(R) (UCSF-10-P-2-39)
effects in asphaltic uraniferous materials, 21:26007
effects in biology and medicine, bibliography on, 24:21203 (AED-C-12-20)
effects in combination with urethane on incidence of leukemia in rats, 25:49319 (AECL-3961)
effects in inducing microorganism mutations, use by industry, review of, 21:22378
effects in metal—silica—silicon capacitors and silica semiconductors, 21:25740 (SC-CR-67-2571)
effects in semiconductor diodes, theory of transient, 25:6596 (FOA-4-4439)
effects in stars, pressure, (T), 22:22267
effects of 10 GeV, measurement of RBE for, 22:12857
effects of biological materials during space flight, review of, 23:29717
effects of external, on serum lactate dehydrogenase activity in rats, combined effects of internal β radiation with, 21:20386
effects of high-energy, on chemistry of gases and liquids, review on, 22:25429
effects of high-energy, on elastic properties of vulcanized rubber, standard methods for testing of, 25:40142
effects of high-energy, on properties of dielectrics, 25:49590
effects of high-energy, on properties of ethylene polymers, 21:8360
effects of high-energy, on properties of plastics and polymers, 25:23597
effects of in-pile pulsed, on optical spectra and fluorescence of fused silica, 23:14418 (N-68-35826)
effects of in-pile, on electric conductivity of metals, 22:36520
effects of in-pile, on electric properties of epoxy resins, 22:38643 (CERN-68-13)
effects of in-pile, on plutonium dioxide—uranium dioxide fuel rods, 22:34125 (EURAEC-1999)
effects of ionizing, bibliography on, biological, 21:4843 (TID-3097)
effects of ionizing, mechanisms of action for radioprotective drugs against, review of, 21:12910
effects of ionizing, neutralization of isolated ion pairs produced by, (T), 22:26234
effects of ionizing, on aging of animals and man, 21:18160
effects of ionizing, on biochemistry of fruits, 21:6711(R) (UCD-34-P-112-28)
effects of ionizing, on biological materials, 21:11003 (CMN-Pub-2/65(Suppl.2))
effects of ionizing, on biological materials, 21:14739
effects of ionizing, on biological systems, mathematical model for, 21:20020 (BNWL-SA-1032)
effects of ionizing, on biological systems, role of oxygen in, 21:16450(T) (NP-tr-1483)
effects of ionizing, on bubble nucleation in superheated ethyl ether, 22:42966
effects of ionizing, on carbohydrate synthesis in beets and potatoes, 21:13068
effects of ionizing, on cells, explanation of, using division probability theory, 21:18156
effects of ionizing, on continuous graft polymerization, 23:19773(P)
effects of ionizing, on currents in semiconductor circuits, compensation circuit for minimizing, 23:7926(P)
effects of ionizing, on dental and oral tissues of man, 21:11096
effects of ionizing, on developing rat fetuses, 21:6643
effects of ionizing, on dislocation density and hardness of potassium chloride crystals, 22:34094
effects of ionizing, on DNA and RNA molecules in cell, 21:22516
effects of ionizing, on DNA content in rat liver, 21:11097
effects of ionizing, on DNA of bacteria, review of mechanisms for repair of, 24:48404
effects of ionizing, on DNA synthesis in mouse liver, effects of yeast RNA extracts on recovery from, 21:8854
effects of ionizing, on electric properties of dielectrics, 22:14904
effects of ionizing, on F-center creation in alkali metal halides, interpretation of, (T), 23:39551
effects of ionizing, on ferroelectric properties of Rochelle salt and triglycine sulfate, (E), 21:33523
effects of ionizing, on fluorescent products in urine of rats, 21:8667(R) (AD-631206)
effects of ionizing, on genetics of plants, 21:6716
effects of ionizing, on germination of bacteria spores in food products, 21:16554
effects of ionizing, on γ globulin content in chicken blood, 21:8931
effects of ionizing, on immune reactions in infant mice, 21:8937
effects of ionizing, on incidence of human skin neoplasms, 21:18138
effects of ionizing, on lethality of microorganisms, 21:8762
effects of ionizing, on life cycle of insects, review of, 21:18178
effects of ionizing, on living organisms, relation to cybernetics, 21:14562(T) (JPRS-38943)
effects of ionizing, on metabolism of fatty acids in rat liver following partial hepatectomy, 21:16296
effects of ionizing, on mouse lymphoma cells made radiosensitive with bromodeoxyuridine, 21:10926
effects of ionizing, on organisms, review of mechanisms in mutagenic, 24:34266
effects of ionizing, on phagocytic activity of rabbit leukocytes, effects of cystamine on, 21:10999
effects of ionizing, on plant biochemistry, morphology, and physiology, 21:14764
effects of ionizing, on positronium-containing systems, 23:27344 (AD-680818)
effects of ionizing, on potassium chloride, 21:13646
effects of ionizing, on solids, mechanisms of diffusion from, (T), 22:17754
effects of ionizing, on transistor surfaces, 21:850
effects of ionizing, on visual function of retina, 21:16447(T) (JPRS-38272, pp 189-90)
effects of isotropic, on particle velocity in interstellar space, (T), 22:2762
effects of lethal total-body ionizing, on immune reactions in chickens, 21:8931
effects of lethal, of mice and rabbits, effects of bone marrow transplants on, 21:16401
effects of low doses of, on growth of crop plants, 21:13057 (STI/DOC-10/64)
effects of low ionizing dose levels of, on MOS transistors, hardening against, 21:6390
effects of low-level ionizing, on electrical activity in human brain, 21:8993
effects of maternal exposure to, on human incidence of mongolism, statistical survey of, 21:1806
effects of nanosecond pulse, on liquid biphenyl, fluorescence studies on ion recombination in, 24:2253
effects of nanosecond pulse, on liquid naphthalene, fluorescence studies on effects of benzanthracene on, 24:2253
effects of nonionizing, on biological materials, review of, 21:12765
effects of nuclear and space, bibliography on, 23:3090 (REIC-Access-113)
effects of nuclear and space, on semiconductor materials, devices, and circuits, conference on, 21:6370
effects of nuclear explosion, on chromosomes of rice plants, effects of temperature and ultracentrifugation on aberrant and mutagenic, 25:24005
effects of nuclear explosion, on frequency of chromosome aberrations in bone marrow cells of leukemia patients exposed in Hiroshima and Nagasaki, 25:18963
effects of nuclear explosion, on human genetics, 25:16276 (FOA-1-1449)
effects of nuclear explosion, on human thyroid, carcinogenic, 25:26898
effects of nuclear explosion, on man in Japan, review of latent, 25:21922
effects of nuclear explosion, on operation of ports and ships, 22:47262
effects of nuclear, on marine organisms, 21:20115
effects of pulsed, on 1,2-dichloroethane, spectrophotometric studies on rate of formation and subsequent decay of aromatic radical cations produced by, 25:4112
effects of pulsed, on alkaline solutions, reactions of hydrated electrons from, 25:51506 (AD-721299)
effects of pulsed, on aqueous solutions of europium, samarium, terbium, and ytterbium, spectral studies on, 25:41833(R) (IA-1218)
effects of pulsed, on argon—oxygen and oxygen, effects of carbon monoxide on yields of ozone from, 24:215 (ORNL-4437, pp 48-56)
effects of pulsed, on eosine complex with human serum albumin, reactions of hydrated electron in, 24:38930
effects of pulsed, on gases at 100 to 1000 torr, electron recombination following, 23:40676 (BNL-50149, pp 40-75)
effects of pulsed, on gold chloride solutions, 25:8306
effects of pulsed, on luminescence decay kinetics of irradiated 9-methyladenine complex with 1,5-dimethyluracil, 24:9369
effects of pulsed, on orotic acid, spectral studies on kinetics of, 25:2275
effects of pulsed, on oxygen-containing solutions of iron perchlorate in perchloric acid, spectral studies on compounds formed during, 24:4318
effects of pulsed, on selenourea, mechanism of, 25:4115
effects of pulsed, on trans-stilbene in 1,1-dichloroethane and tetrahydro-2-methylfuran solutions, mechanism and spectral studies on, 24:31381
effects of pulsed, on water at pH 4 to 10, method for studying transient ionic intermediates produced by, 24:38928
effects of reactor, on decafluorobis(trifluoromethyl) cyclohexane, yields from, 23:45348
effects of reactor, on defect production in potassium chromate, effects of lanthanum doping on thermal annealing of, 24:48119
effects of reactor, on dimethyldiphenylsilane and trimethylphenylsilane at high temperature for use as coolants, composition of gaseous yields from, 24:48130
effects of reactor, on dimethyldiphenylsilane and trimethylphenylsilane coolants at high temperatures, composition of polymers produced by, 24:48138
effects of reactor, on electric conductivity of silicon single crystals, (E), 23:39549
effects of reactor, on fluorescence of polycrystalline terphenyl flakes, 23:45339
effects of reactor, on fluorite electric conductivity and optical absorption, (E), 22:26507
effects of reactor, on ionic aluminum oxide crystals, theoretical studies on magnetic and optical properties of defects induced by, 23:40682(R) (NYO-3682-7)
effects of reactor, on liquid decafluorobis(trifluoromethyl) cyclohexane or eicosafluorononane, yields of high-boiling products from, 24:50418
effects of reactor, on solid malonic and succinic acids, yields from, 23:17467
effects of reactor, on thermionic converter performance, (E), 22:29319
effects of reactor, on vacuum ultraviolet absorption spectra of lithium fluoride crystals, 21:23264
effects of relation between equivalent residual dose and recovery from, 21:3403 (RM-5048-TAB)
effects of self-, in radioactive solids, time dependence of defect accumulation from, (T), 25:59170
effects of sparsely and densely ionizing, on reproduction in cultured mammalian cells, 21:20154
effects of steady fronts of, behind windows, (T), 23:41814
effects of steady-state, on electric insulating materials, 24:1109 (N-69-33236)
effects of thermostimulated exoelectronic emission in disulfides formed from aminothiols and hemoglobin, 23:4873
effects of transient, on capacitors, 21:14923 (SC-TM-66-2625)
effects of trichloroacetamide single crystals, ESR spectral studies on radicals produced by, 22:18806(R) (COO-1385-21)
effects of whole-body, on excretion of xanthurenic acid by rats, 21:10778
effects of whole-body, on glutathione content of rat liver and spleen, 21:426
effects of, as catalysts on chemical compounds, activity and mechanism of, 21:4544
effects of, comparison of immediate and delayed, 21:26468
effects of, from atomic explosions, on genetics of populations of Hiroshima and Nagasaki, 21:18161
effects of, from fallout, growth of children, effects of age at exposure on, 21:8942
effects of, from fallout, on man, 21:8941
effects of, from nuclear explosions, on growth of children, effects of age at exposure on, 21:8942
effects of, from therapeutic doses of iodine-131 used for hyperthyroidism, on incidence of chromosome aberrations in periphereal leukocytes, 21:16381
effects of, in biological systems, relation of primary energy transfer and target theory for measurements of, 21:12872
effects of, in killing and sterilizing plant pests, review of, 21:4893
effects of, in manufacture of polypropylene fiber, 21:11329
effects of, in producing mutational lesions in Escherichia coli, repair mechanisms for, 21:20130
effects of, lectures on concepts of biological, 21:22650 (CMN-Pub-3/66)
effects of, microelectrophysiological studies of, 21:10748
effects of, morphological changes preceding appearance of neoplastic, 25:11271
effects of, on 2-methylpropene polymers in heptane solution, 21:5937
effects of, on absorption of isonicotinic acid hydrazide in rabbit digestive tract, 21:11077
effects of, on alkane—nitrous oxide mixtures, effects of alcohols and carbon dioxide on, 21:14240(R) (RRL-2310-194)
effects of, on analytical chemistry methods, 21:12285(R) (ORNL-4039)
effects of, on aqueous nitrobenzoic acid solutions, EPR spectral studies on, 21:14240(R) (RRL-2310-194)
effects of, on aqueous nitromethane solutions, mechanism of, 21:1380(R) (RRL-2310-188)
effects of, on aqueous sulfuric acid solutions, spectral studies on, 21:15956
effects of, on ascites tumors in mice, effects of RNA on, 21:20309
effects of, on binding of polyvinyl alcohol and whetstone grains, 21:1403(P)
effects of, on biological systems, mathematical model for, 21:13018
effects of, on biological systems, reaction mechanisms for, 21:12872
effects of, on blood constituents in man, dogs, and monkeys, 21:11026
effects of, on bromide and iodide ions in aqueous solutions saturated with carbon dioxide, 21:5834 (IA-1082, pp 77-202)
effects of, on callus formation by bone fractures repaired with metal pins, 21:8919
effects of, on carbon-14-labeled carbon dioxide or monoxide in heptane solutions, yields in, 21:8336
effects of, on cervical carcinomas, method for determining, 21:12986

effects of, on cholesterol biosynthesis in rat liver, effects of adrenalectomy and corticosteroids on, 21:16295
effects of, on chromosomes, medical significance of aberrant, 21:10833
effects of, on cis-trans isomerization of 2-butene, 21:10369(R) (AGN-8196(Vol.1))
effects of, on colony-producing potential of hematopoietic tissue in mice, 21:8725
effects of, on crosslinking of high-molecular-weight polymers treated with acetylene, 21:12486(P)
effects of, on crosslinking of microporous polyethylene, 21:12483(P)
effects of, on crosslinking of polymers in presence of acetylene, 21:1404(P)
effects of, on crosslinking of polyolefins, 21:5972(P)
effects of, on crosslinking of polyolefins, 21:5971(P)
effects of, on crosslinking of polyvinyl chloride graft copolymers with ethylenically unsaturated monomers, 21:10403(P)
effects of, on cyclohexane—ethylene solutions, method for measuring yields of ethyl radical in, 21:1380(R) (RRL-2310-188)
effects of, on cyclohexane—ethylene solutions, yields of thermal ethyl radicals in, 21:14240(R) (RRL-2310-194)
effects of, on cytology and morphology of herbs, Coriandrum, 21:13067
effects of, on deuterated ice, relaxation time for trapped electron produced by, 21:14240(R) (RRL-2310-194)
effects of, on development of bean and cotton plants grown from exposed seed, 21:6427
effects of, on dielectric properties of poly(chloroethylene) , 21:8345
effects of, on diffusion of fission gases from uranium dioxide, 21:13286(R) (EURAEC-1772)
effects of, on DNA and RNA synthesis in cervical cancer cells, 21:12942
effects of, on DNA-synthesis and generation time in lymphoid cells from thoracic duct of calves following extracorporeal exposure of circulating blood, 21:6610 (BNL-10657)
effects of, on enzyme activity and motility in bull spermatozoa, 21:4774
effects of, on fast reactor jacketed fuel elements, 21:11190 (ANL-7155, pp 1-166)
effects of, on ferric perchlorate solutions, kinetic and spectral studies on Fe(IV) production in, 21:1380(R) (RRL-2310-188)
effects of, on fracture mechanics of pressure vessel steels, 21:13162(R) (WCAP-3677-2)
effects of, on function of ischemia-damaged kidneys of dogs, 21:13007
effects of, on gases, calculations for role of surface neutralization in, 21:12467
effects of, on genetics of animals, mechanisms for, 21:8776
effects of, on genetics of plants, mechanisms for, 21:8776
effects of, on graft polymerization of butadiene with polyenes, 21:127(P)
effects of, on graft polymerization of films and powders of synthetic resins with vinyl acetate, 21:130(P)
effects of, on graft polymerization of monomers and polymers, kinetics of, 21:8356
effects of, on graphite, effects of vacancies on kinetics of, 21:1965
effects of, on helminths, use of to study helminth disease, 21:18147
effects of, on hydrogen peroxide in aqueous nitric acid solutions, mechanism of, 21:5834 (IA-1082, pp 77-202)
effects of, on hydroxylation of aqueous nitrobenzene solutions, yields of products in, 21:1380(R) (RRL-2310-188)
effects of, on ice, solvated electron production by, 21:14240(R) (RRL-2310-194)
effects of, on immune reactions in mice, 21:8908 (AD-635754)
effects of, on incidence of polyploid erythroblasts in human bone marrow, 21:6475
effects of, on insafrol to produce heliotropine perfume, 21:5969(P)
effects of, on isotopic exchange of gaseous nitrogen between nitrogen-15 and nitrogen-14-labeled nitric oxide, 21:5834 (IA-1082, pp 77-202)
effects of, on leach rates of glasses containing waste, 21:10583 (CONF-660208-, pp 585-605)
effects of, on leukemogenesis in animals and man, 21:11055
effects of, on liquid cyclohexane, effects of carbon dioxide and nitrous oxide on yields in, 21:14240(R) (RRL-2310-194)
effects of, on liquid methane, effects of ethylene and propene on yields in, 21:1380(R) (RRL-2310-188)
effects of, on liquids and solids, review on spectra of products of, 21:15919 (UJV-1625)
effects of, on mammalian animal cells, mathematical model for simulating, 21:14740
effects of, on man, review of, 21:12982
effects of, on mechanical and tensile properties of alloys at cryogenic temperatures, 21:13210 (N-66-20135)
effects of, on metabolism and cell multiplication, 21:13086
effects of, on metallography of plutonium dioxide—uranium dioxide fuels, 21:13288(R) (NUMEC-3432-27)
effects of, on metals, use of computer in calculation of, 21:13204(T) (AD-644051)
effects of, on microorganisms, combined effects of heat with, 21:14779
effects of, on monomer-impregnated shaped articles of polymers, 21:10404(P)
effects of, on morphology of living and lyophilized tissues, 21:6467
effects of, on mutagenesis in Drosophila, recovery from, 21:6401(R) (EUR-2983.e)
effects of, on mutation induction in man, 21:14620
effects of, on mutation rate and mutation release, 21:4761
effects of, on nerve segments studied in vitro, effectiveness of later transplants in ape and monkey, 21:16487
effects of, on nitrogen fixation in soils, 21:9031
effects of, on nitrous oxide in cyclohexane, 21:5834 (IA-1082, pp 77-202)
effects of, on nitrous oxide, dosimetric studies on, 21:14237(R) (JLI-2901-75)
effects of, on organic compounds, reaction kinetics and product yields in, 21:95 (BNL-10592)
effects of, on oxidation of alicyclic ketones to yield lactones, 21:1402(P)
effects of, on oxidation of ferrous ion by hydroxyl radical, 21:1380(R) (RRL-2310-188)
effects of, on oxidation of nitrogen, 21:5944
effects of, on oxidation-reduction processes in plants, 21:1838
effects of, on perfluoroalkanes in hexane solutions, effects of nitrous oxide on yields in, 21:5834 (IA-1082, pp 77-202)
effects of, on phosphate and thiol groups in cell nuclei, 21:18150
effects of, on picoline and/or pyridine with or without toluene, carbon-14 activity distribution in, 21:8333
effects of, on polymerization of 1,1-difluoroethylene polymers, comparison of structure in effects of chemical and, 21:5935
effects of, on polymerization of acrylonitrile monomers to yield isotactic polymers of stereospecific structure, 21:12482(P)
effects of, on polymerization of formaldehyde in presence of acid anhydrides, 21:12481(P)
effects of, on polymerization of formaldehyde with isocyanic acid, 21:4577(P)
effects of, on polymerization of formaldehyde with ketenes in the presence of inorganic or organic acid anhydrides, 21:12484(P)
effects of, on polymerization of liquid and solid 5-carboxybicyclo[2,2,1]hept-2-ene with and without maleic anhydride, 21:12451
effects of, on polymerization of perfluoroolefins, 21:5970(P)
effects of, on polymerization of solid allyl ester of norbornenedicarboxylic acid, effects of organic compounds on, 21:12450
effects of, on polymerization of vinyl chloride in presence of polyesters, 21:12485(P)
effects of, on polymers containing nitrogen—silicon bonds, 21:6899(R) (N-66-32252)
effects of, on polymers, mechanical spectroscopic studies on, 21:14276
effects of, on production of chlorinated polymers, 21:5967(P)
effects of, on production of foamed bodies of polymers of ethylene homologs, 21:5968(P)
effects of, on production of foamed bodies of synthetic resins, 21:1405(P)
effects of, on rat hematopoiesis, protective effects of serotonin against, 21:3420
effects of, on reactions between chloride ions and hydroxide radicals in dilute sodium chloride solutions, 21:5834 (IA-1082, pp 77-202)
effects of, on reactions of molecular oxygen with organic compounds, 21:14245
effects of, on reactions of tetrachloroethylene and cyclic ethers to yield chlorine-containing cyclic ethers, 21:12487(P)
effects of, on recovery from surgical wounds to bladder in rabbits, 21:4873
effects of, on reduction of hexavalent to tetravalent uranium by ethanol, 21:1397
effects of, on solid uranium-based nuclear fuel, bibliography on, 21:11261 (NP-16522)
effects of, on solvent properties of hydrochloric acid for inert metals, 21:12285(R) (ORNL-4039)
effects of, on spores of Bacillus megaterium, effects of thiourea in aluminum silicate powders on, 21:13087
effects of, on stability of diphenylmethane,, isopropylbiphenyl, and propylbiphenyl, 21:8344
effects of, on stability of luminescent materials used in scintillation systems, 21:10385
effects of, on stainless steel—uranium dioxide fuels, 21:13289 (ORNL-P-2355)
effects of, on stoichiometry and thermal conductivity of uranium dioxides, 21:13283 (CONF-661003-17)
effects of, on structure of DNA, biological significance of, 21:12790
effects of, on sugars, biological effects of products from, 21:10783
effects of, on tensile properties of aluminum and nickel alloys at cryogenic temperatures, 21:13211(R) (N-66-24695)
effects of, on the polymerization of vinyl phosphonium halides, 21:125(P)
effects of, on tissues, determination of amount minimal, during scintiscanning, 21:8876
effects of, on total protein and protein fractions in serum of offspring of guinea pigs for 4 generations, 21:16502
effects of, on tumor cells, applications to radiotherapy, 21:4836
effects of, on turpentine-induced pleurisy in rats, 21:4852
effects of, on uranium dioxide—zirconium dioxide fibrous fissiochemical fuels, 21:10369(R) (AGN-8196(Vol.1))
effects of, relation between physical and biological, 22:43300 (AERE-PR/HPM-12)
effects of, review of physical factors affecting biological, 22:23530
effects of, somatic, 21:12831 (CMN-Pub-2/65)
effects on 1-propanol, effects of dose on yields in, 21:38972
effects on 2,2-dimethylpropane in liquid alkanes and cycloalkanes, effects of carbon tetrachloride and sulfur hexafluoride on yields in, 23:7553
effects on 2-propanol vapor, effects of ethylene or nitric oxide on yield of molecular hydrogen from, 23:37979
effects on 2-propanol—water, effects of nitrate ions on yields of solvated electrons from, 24:9366
effects on 3,3-bis(chloromethyl)oxetane and its polymer, ESR spectral studies on, 21:19701
effects on 3,3-bis(chloromethyl)oxetane and its polymer, ESR spectra studies on, 22:8104(T) (AEC-tr-6908, pp 145-53)
effects on 3,3'-dioxo-[$\Delta^{2,2'}$-biindoline]-5,5'-disulfonic acid, ESR spectral studies on effects of sodium dithionite on free radicals produced by, 23:49815 (BNWL-1051(Pt.2), pp 158-60)
effects on 5-bromouracil and 5-bromouracil-substituted DNA, lytic pulsed, 23:47954 (UCLA-12-724, pp 71-87)
effects on 5-methylcytosine single crystals, ESR study of free radical produced by, 25:51490
effects on abdomen of man, development of complications following, 24:907
effects on ability of culture media to support growth of microorganisms, 22:36420
effects on ability of DNA to inhibit transformation of Bacillus subtillis, effects of 10 to 100 kR dose on, 24:7747
effects on abortion frequency in humans in relation to incidence of chromosome aberrations, effects of dose on, 25:18969
effects on abundance and diversity of Palicourea riperia seedlings in tropical rain forest, ionizing, 21:39372 (ORO-3299-7)
effects on abundance of blood cells, use in monitoring personnel, 21:16360
effects on abundance of lymphocytes in medical personnel, chronic low-dose, 22:49611
effects on accumulation of micronuclei in rat kidney, protective effects of cystamine against whole-body, 24:14519
effects on acetates, effects of crystal structure on, 22:18806(R) (COO-1385-21)
effects on acetonitrile, mechanism of, 22:37775 (BNL-50082, pp 40-78)
effects on acetylation of PABA in liver of rats, 24:34659
effects on acetylcholine content of perfusate of ganglia in animals in relation to effects on presynaptic terminals, ionizing, 24:27695
effects on acetylglycine monocrystals at 77°K, ENDOR from, 24:225
effects on acid-alkaline equilibrium of blood and cerebrospinal fluid in brain of rabbits, combined effects of cystamine and dose on ionizing, 24:750
effects on acidity and clearance of stomach in rats, effects of atropine on, 22:28683
effects on acrylamide polymers, yields of paramagnetic centers from, 24:11592
effects on ACTH function of pituitary of mammals during acute radiation sickness, review of, 24:19355
effects on activated alkali metal halide crystals, spectra of colloidal color centers induced in, 24:45326
effects on active carbon catalysts, 22:48876 (JAERI-1155)
effects on activity and distribution of lactate dehydrogenase in adrenal glands, brain, and thymus, 24:34131
effects on activity and isoenzyme composition of lactate dehydrogenase in heart, liver, and spleen of neonatal rats following parental exposure, 25:29665
effects on activity and structure of lysozyme, 22:30930(R) (COO-690-29)
effects on activity of alanine aminotransferase, alkaline phosphatase, asparte aminotransferase, and lactate dehydrogenase in blood serum of man, 23:29353
effects on activity of alkaline phosphatase and cholinesterase in blood and tissues of rats following injection of mixed radioisotopes, 25:10968
effects on activity of aminoacyl-tRNA synthetases and TRNA in cotton plants, 25:29715
effects on activity of bone marrow cells of mice and rats, 22:51949
effects on activity of C, K, and B vitamins, effects of dose and moisture on, 22:40550
effects on activity of DNA molecules, indirect ionizing, 21:28360
effects on activity of endogenous erythrocytic enzymes, whole-body, 21:34589
effects on activity of enzyme solutions containing other solutes, inactivation, 24:11959
effects on activity of enzymes in blood serum of animal species, whole-body ionizing, 23:16220(R) (AD-664176)
effects on activity of enzymes in liver of rats, 23:29374
effects on activity of enzymes in psoriasis-afflicted man, solar, 23:29355
effects on activity of enzymes, mechanisms for, 24:6008
effects on activity of ferrochelatase in mice and rats, in vitro and whole-body, 22:40590
effects on activity of glucose-6-phosphate dehydrogenase in intestinal mucous membrane of rats, effects of 800 R dose on, 24:16987
effects on activity of glutamate oxidoreductase in liver of tumor-bearing rats, effects of cysteine and glutathione on, 24:27542
effects on activity of glycolytic enzymes of rabbits, sublethal ionizing, 25:8779
effects on activity of human thyroid following therapy of spleen, 23:45945
effects on activity of lymphoid cells transplanted into mice, 24:12271
effects on activity of polyphenol oxidase and decay rate of peaches, effects of pretreatment with hot water on, 22:49662(R) (ORO-3097-17)
effects on activity of polyphenol oxidase in plants, combined effects of hydroquinone and p-benzoquinone on, 24:39431
effects on activity of properdin system in serum of rabbits, protective effects of methyluracil against, 24:7933

effects on activity of proteolytic enzymes in fish tissues, ionizing, 24:6011
effects on activity of proteolytic enzymes in relation to preservation of meats, 24:6162
effects on activity of redox enzyme activity in rat liver following ingestion of radon-containing water, 25:42279
effects on activity of ribulose-diphosphate carboxylase in barley, mutagenic, 24:41818
effects on activity of Saccharomyces cerevisiae in rachitic chickens, 21:28692
effects on activity of succinic dehydrogenase in mouse and rat intesting, mechanisms for, 21:20055
effects on activity patterns of voles, use of tantalum-182 tagging for measuring seasonal, 24:21280 (COO-1486-5)
effects on actuator and position sensor devices in vacuum, 21:12212 (BMI-X-10168)
effects on addition reactions of alcohols and ethers with hexafluoropropene, 22:21095
effects on addition reactions of ethanol to tetrachloroethylene, 23:9470
effects on adenocarcinomas in mice, effects of tumor cell differentiation level on sensitivity to, 23:24734
effects on adhesive properties of modified resins, 25:41846(P)
effects on adhesive properties of, epoxy—glass and epoxy—metal adhints, 23:44026
effects on adrenal and pituitary gland of mammals, review of ionizing, 22:25966
effects on adrenal gland function in man following therapy of thyrotoxicosis, acute, 22:49614
effects on adrenal glands in rats, recovery from, 25:26998
effects on adrenal-pituitary system in dogs, acute and chronic, 25:29642
effects on adrenaline-induced glycogenolysis of animal leukocytes, effects of adrenalectomy on acute, 23:9871
effects on adrenocortical function of rats, whole-body supralethal, 22:19280
effects on adrenocorticotrophic function of rat pituitary gland, chronic, 24:16978
effects on adsorbents, comparison of γ-adsorption effects and radiation chemosorption in, 24:11599
effects on aerated aqueous benzene solutions, effects of ferrous ions and oxygen on yields from, 23:19809
effects on aerated aqueous solutions of N-(3-phenyl-L-alanyl)glycine, comparison of mechanism of photolysis with, 25:15678
effects on aflatoxin production by toxigenic and non-toxigenic strains of Aspergillus following repeated exposure and incubation for three years, 25:52265
effects on aflatoxin, review of, 24:50726
effects on aging and life span of animals, 22:51880
effects on aging in mice, genetic factors in, 21:16327
effects on aging in relation to chromosome stability, 22:14905 (BNL-50057, pp 111-22)
effects on aging man following use for therapy, frequency of leukemogenic, 25:6806
effects on aging of animals, review of, 22:51879
effects on aging of living systems, 22:43421
effects on aging of man and mice, 21:1795 (BNL-10564)
effects on aging processes, review of, 23:43846
effects on aging, effects of free radical production on, 21:30883
effects on aging, genetics, and neoplasms in animals and man, review on relation of, 25:42605
effects on agricultural plants in Latin America, mutagenic, 24:46599 (NP-18164)
effects on agricultural plants, genetic and physiological, 25:52020 (A/CONF.49/P-844)
effects on agricultural plants, review of mutagenic, 25:52020 (A/CONF.49/P-844)
effects on agriculturally important plants in Poland in relation to improved quality and yield, mutagenic, 25:52015 (A/CONF.49/P-329)
effects on agriculturally important plants in Poland, research on sensitivity to, 25:52015 (A/CONF.49/P-329)
effects on alanine—glycine, EPR study of free radicals from, 23:9485
effects on alanine-glycine peptides, EPR studies on, 23:40695
effects on albumin synthesis and cell permeability in rats, mechanism of, 25:27007
effects on alcohol dehydrogenase in solutions, effects of iodine solutions on ionizing, 25:4543
effects on aliphatic and aromatic organic compounds and their derivatives, EPR spectral studies on mechanism of free radical production from, 23:35217
effects on aliphatic organic acids, energy transfer in, 23:217 (ORNL-4306, pp 58-65)
effects on aliphatic thiocyanates, effects of length of hydrocarbon chain on yields from, 25:31982
effects on alkali metal halide crystals, chemical method for studying defects produced in, 22:34770
effects on alkali metal halide crystals, mechanisms of formation of color centers from, review, 22:9447
effects on alkali metal halide crystals, production mechanisms and structure of hole-type defects from, review, 22:9445
effects on alkali metal halide crystals, studies of defect recombination processes in, 25:19770(R) (NYO-3842-12)
effects on alkali metal halide defects, impurity-center microstructure, and luminescence, (E/T), 22:20043(T) (AD-663351)
effects on alkali metal halides, chemiluminescence—dissolution method for study of defects induced in, 25:19850
effects on alkali metal halides, F coloring, (T), 25:47614
effects on alkali metal halides, model for interstitial reactions and F-center production, 23:51761
effects on alkali metal halides, review of formation mechanisms and properties of point defects from, 22:13552
effects on alkali metal halides, summaries of conference papers on color centers formed in, 24:1487
effects on alkali metal oxalates, method for determining remaining oxalate from, 24:11433
effects on alkaline and neutral aqueous solutions, yields in, 22:21134
effects on alkaline solutions of sodium peroxydisulfate, 22:40134
effects on alkane polymers, energy transfer mechanisms of, 24:29346
effects on alkane polymers, exciton model for energy transfer in, 24:29348
effects on alkanes, crosslinking yields from, 23:19786
effects on alkanes, free radical yields in, 22:8126
effects on alkanes, free radical yields in, 22:42711(T) (AEC-tr-6937, pp 84-95)
effects on alkanes, methyl radical yields in, 21:19705
effects on alkanes, methyl radical yields in, 22:8108(T) (AEC-tr-6908, pp 198-200)
effects on alkanes, radical yields in, 22:42804
effects on alkenes, 22:4213
effects on alkylating agents and hydroaromatic compounds in suspensions of bacteria and erythrocytes, effects of nitrous oxide on, 23:35190
effects on allergic reactions of animals and man to foreign proteins, 23:50393
effects on allosteric center of enzymes, 22:14946
effects on allosteric centers of fructokinase, effects of inhibitor on, 24:21077
effects on allotropic changes of sulfur, selenium, and tellurium, 22:4135
effects on alloy cladding and ceramic fuels, 21:9248 (CEA-R-3066)
effects on alloys and metals for use in nuclear structures, 23:51042
effects on alpha-iron, computer simulation of displacement spike annealing in, 24:28419
effects on alveolar wound healing in lungs of dogs, short-wave, 23:38807
effects on amino acid composition of protein of fish muscles, ionizing, 25:19110
effects on amino acid content in blood plasma of man following therapy, 24:34114
effects on amino acid content of adrenal glands of rabbits, 23:26698
effects on amino acid content of feed mixtures during sterilization, 25:52289
effects on amino acid content of proteins in processed food, 25:55364
effects on amino acid metabolism in organs, 24:50749
effects on amino acids in aqueous glucose solutions, 24:16596
effects on amino acids in aqueous solutions, protective effects of selenium compounds against ionizing, 25:4545
effects on ammonia, ammonia—deuterium, and ammonia—propane systems, yields from, 23:47534
effects on ammonia, yields of azides in, 23:40676 (BNL-50149, pp 40-75)
effects on ammonia—ethylene systems, role of atomic hydrogen in formation of products from, 23:40700
effects on ammonium chloride and bromide single crystals, studies of NH_3X color centers produced in, 23:3589
effects on ammonium chloride crystals, EPR studies of hydrazine-like defect produced in, 23:23287
effects on ammonium difluoroacetate and barium dichlorofluoroacetate crystals, ESR spectral studies on radicals produced by, 22:18806(R) (COO-1385-21)
effects on ammonium, potassium, and sodium nitrates, effects of metal oxide semiconductor impurities on, 22:30632
effects on amoebae, effects of dose and mitotic stage on, 22:36351
effects on analytical methods and reagents, 24:27177
effects on androgen secretion by testes of mice, 23:29780
effects on aneuploidy in oogenesis of Drosophila melanogaster, effects of dose and genotype on, 22:43282
effects on anhydrous and hydrous uranyl oxalate, 24:19002
effects on anhydrous gas-phase polymerization of ethylene—tetrafluoroethylene, 25:21026(P)
effects on aniline, N-ethylaniline, N-methyl-o-nitroaniline, and phenol, decomposition of free radicals produced by, 25:48559
effects on animal and human embryos, low-level ionizing, 25:4713
effects on animal and human populations, genetic, 23:41281 (UCSF-10-P-2-71)
effects on animal and snake venoms, 24:50708 (STI/PUB-243)
effects on animal blood formation, Euratom research program on, 23:6566(R) (EUR-3938)
effects on animal bones, conference on carcinogenic, 25:24243
effects on animal organs and tissues, biochemistry of effects of radioprotectors against, 25:32440
effects on animal skin, mechanisms in, 23:35870 (RD/B/N-1356)
effects on animal tissues, mechanism of protective effects of AET, cysteamine, hypoxia, 6-methoxytryptamine, serine, and serotonin creatinin sulfate against, 25:32442
effects on animal tissues, production of transient free radicals following, 24:610
effects on animal tumors, effects of biological substances released following, review of ionizing, 24:852
effects on animal tumors, effects of oxygen on, 23:2890
effects on animal tumors, review of, 24:858
effects on animal-plant-soil ecosystems, 22:51875 (TID-4060(1st Ed.))
effects on animals and man following nuclear accidents, 23:22307
effects on animals and man, antibiotic treatment of, 23:22337
effects on animals and man, conference on carcinogenic, 24:34718 (STI/PUB-228)
effects on animals and man, effects of acceleration on space flight, 22:40825(T) (N-68-16163)
effects on animals and man, genetic, 25:11294(R) (EUR-4542)
effects on animals and man, latent, 25:42604
effects on animals and man, mathematical model for determining damaging, 25:24433
effects on animals and man, program for long-term study of low-level, 23:33805 (PHS-PUBL.-1809, pp 1-4)
effects on animals and man, qualitative and quantitative, 22:49584
effects on animals and man, review of carcinogenic, 21:32739 (ORNL-P-3136)
effects on animals and man, review of carcinogenic and oncogenic, 24:32246
effects on animals and plants, 22:40826(R) (ORO-657)
effects on animals and plants during space flight, 22:47582
effects on animals and plants treated with procaine hydrochloride, 21:14127(R) (NP-16420)
effects on animals and plants, abstracts of symposium on, 23:31950
effects on animals and plants, effects of dose and dose rate on mutagenic, 25:46796
effects on animals and plants, effects of oxygen on, 25:46721
effects on animals and plants, role of radiotoxins in, 25:47004
effects on animals at various levels of organization, 23:10090
effects on animals during intestinal syndrome of acute radiation sickness, role of bacterial polysaccharides in, 24:51052
effects on animals in relation to pharmacology, review of, 22:51829
effects on animals, biochemical aspects of repair of pathological, 24:12242 (STI/PUB-186)
effects on animals, development of hemorrhagic and traumatic shock following high-dose whole-body lethal, 24:44593
effects on animals, effects of dose fractionation on, 24:7995
effects on animals, effects of dose rate on repair of mutagenic, review of, 23:35687
effects on animals, effects of species differences on recovery patterns following lethal, 24:12274
effects on animals, environment, and man, conference on late, 25:24429
effects on animals, evaluation of equipment and procedures used to study, 22:52014
effects on animals, evaluation of mechanism of recovery from acute, 24:48676 (CEA-CONF-1553)
effects on animals, injurious, 25:27024
effects on animals, man, and plants, classification of genetic and somatic, 22:10835
effects on animals, man, and plants, immediate and transient, 22:40880
effects on animals, microorganisms, and plants, during space flight, genetic, 21:39386
effects on animals, oscillation of erythropoiesis following, 25:16336
effects on animals, prophylaxis and treatment of, 23:22330
effects on animals, protective effects of acclimatization to hypoxia, cysteamine, and ginseng root extract against, 24:7931
effects on animals, protective effects of imipramine against lethal, 23:10007
effects on animals, protective effects of suboccipital administration of cysteamine and mexamine against, 23:14234
effects on animals, review of carcinogenic, 24:32212
effects on animals, review of genetic, 22:23601
effects on animals, review of ionizing, 24:48671
effects on animals, review of radioprotective effects of preirradiation on whole-body, 22:51955
effects on animals, review of recovery rates following, 22:49482 (CONF-680410-, pp 24.1-22)
effects on animals, review of, protective effects of autotransplants of bone marrow against, 22:25909
effects on animals, selection of bone marrow donors with maximum histocompatibility for transplants following, 22:43396(R) (EUR-3946)
effects on animals, source of variability in response to whole-body, 22:33944
effects on animals, statistical analysis of dose-response curves for carcinogenic, 25:21830 (ANL-7760(Pt.2), pp 18-21)
effects on animals, use of cell transplants to measure vital activity following, review of, 22:25982
effects on animals, use of term for survival time of 50 percent of population as measure of protective effects of glutathione against, 23:50851
effects on annealed magnesium-doped lithium fluoride, 22:4222
effects on anthocyanin in Coleus plants, mutagenic, 22:17013
effects on anthracene crystals, 22:23481(R) (PRNC-102)
effects on anthracene, benzophenone, and naphthalene in benzene and cyclohexane solutions, mechanism and yields in pulse, 22:33385
effects on anthracene, high energy, 21:7330 (AD-635433)
effects on anti-leukocyte antibodies in blood serum of patients, 24:36844
effects on antibody formation in human infants from mothers exposed to atomic bombing at Hiroshima and Nagasaki, 22:6837
effects on antibody formation in mouse spleen cells, 25:32368
effects on antibody formation in spleen cells of mice following injection of sheep erythrocytes and syngeneic spleen cells, lethal, 24:11976

effects on antibody formation in spleen cells of mice following injection of sheep erythrocytes, lethal, 24:11977
effects on antibody formation, hematopoiesis, mucous membranes, and skin in man, effects of genetics, leukemia, and state of health on, 22:23646
effects on antibody forming cells, 25:26665
effects on antibody production and lymphocyte proliferation in reticuloendothelial system following phagocytosis of colloidal gold-198 by macrophages, 23:38440
effects on antibody production in animals, effects of adrenal cortical hormones on, ionizing, 22:12771
effects on antibody response in mice, combined effects of antigen dose and thymectomy on, 23:9884
effects on antibody system, gastrointestinal tract, gonads, hemapoietic system, and skin of man, 24:25579
effects on antigenicity of Ehrlich ascites tumor cells, effects of incubation time and temperature on, 22:33750
effects on antigenicity of human kidney transplants, 24:6013
effects on antigenicity of peripheral nerve and skull bone homografts for use in mammals, ionizing, 25:11334
effects on antigens in transplanted tissues, effects of 1.5 to 5 Mrad dose on ionizing, 25:11331
effects on aquatic and terrestrial ecosystems, bibliography on, 25:46763 (ORNL-NSIC-95)
effects on aquatic ecosystems, recovery patterns following, 25:52013
effects on aqueous α-D-methylglucoside solutions, mechanism and products of, 22:33455
effects on aqueous benzene solution in presence of hydrogen peroxide, 22:42772
effects on aqueous carbon black suspensions, 23:24253
effects on aqueous cysteine solutions, mechanism and yields in, 21:25873(R) (NYO-3383-06)
effects on aqueous diisopropylamine solutions, effects of 2-mercaptoethanol on yields from, 25:10627(R) (NYO-2499-37)
effects on aqueous ethylene, yields of low-molecular-weight products in, 21:40899
effects on aqueous ethylene—nitrate system, chromatopolarographic study of products from, 23:35152
effects on aqueous glasses, review on, 23:4678
effects on aqueous solutions, 23:35154
effects on aqueous solutions and water, review on mechanism of, 22:27744 (NYO-3242-25)
effects on aqueous solutions of 3-mercaptovaline and p-nitrosodimethylaniline, mechanism of, 21:25873(R) (NYO-3383-06)
effects on aqueous solutions of benzene in presence of oxygen, effects of acidity on, 22:27813
effects on aqueous solutions of carbohydrates, cytotoxic, 21:39353
effects on aqueous solutions of carbohydrates, yields of deoxy compounds from, 24:20826
effects on aqueous solutions of dipotassium hydroxylamine-N,N-disulfonate, 23:11543
effects on aqueous solutions of DNA, EPR studies on protective effects of propyl gallate on mechanism of, 23:2348
effects on aqueous solutions of hydrazine, effects of acidity and hydrogen peroxide on mechanism and yields from, 24:9367
effects on aqueous solutions of ionic bromine oxides with and without carbonate and hydroxyl ions, spectral studies on yields in, 22:30629
effects on aqueous solutions of iron ions, 22:4215
effects on aqueous solutions of N,N-dimethyl-p-nitrosoaniline, 24:13881
effects on aqueous solutions of nucleic acids, 22:45097
effects on aqueous solutions of nucleic acids, purines, nucleosides, and nucleotides, reaction kinetics of, 23:35158
effects on aqueous solutions of oxygen, 25:8295
effects on aqueous solutions of oxygen, 25:8293
effects on aqueous solutions of phenylalanine, 24:13910
effects on aqueous solutions of potassium hydroxide at 77°K, EPR studies of, 21:24037
effects on aqueous solutions of tyrosine, 22:42773
effects on aqueous solutions of vitamin K, effects of dose on ionizing, 22:43272
effects on aqueous solutions, diffusion model for, 21:1376 (CALT-532-5)
effects on aqueous solutions, effects of alkali salts on yields in, 22:23034 (IA-1128, pp 78-96)
effects on aqueous solutions, effects of pH on yield of hydrogen atoms from, 23:19753
effects on aqueous solutions, ESR studies of free radicals produced by fast reaction flow systems from, 25:54662
effects on aqueous thallium chloride solutions, yields of hydrogen and hydrogen peroxide in, 22:23034 (IA-1128, pp 78-96)
effects on aqueous thymine solutions, reactions of electron and hydroxyl group adducts in, 25:15674
effects on Arabidopsis thaliana, demonstration of heterosis following mutagenic, 23:48257
effects on aromatic fluorocarbons, effects of temperature on kinetics of, 23:40534 (BNL-50149, pp 26-39)
effects on aromatic, olefinic, and saturated hydrocarbons, mechanism and yields of, 22:40122
effects on aromatics and sulfur-containing amino acids in aqueous solutions, 23:4667
effects on ascites and lymphosarcoma cells in mice and rats, mutagenic, 25:46794
effects on ascites cells, combined effects of free radical inhibitors on lethal ionizing, 24:34587
effects on ascites tumor cells, effects of ploidy on, 22:6741
effects on ascites tumors and Pliss lymphosarcomas of rats, effects of dose on, 24:34699
effects on ascorbic acid and starch production in potatoes, 25:32621
effects on ascorbic acid content in rat organs, effects of combined irradiated meat diet and whole-body, 25:46987
effects on ascorbic acid content in tissues of guinea pigs, protective effects of 6-methylthiouracil against, 21:34591
effects on astronauts during space flight, medical examinations during and following flight to determine, 24:905
effects on atmosphere, model for predicting, 21:11490 (NP-16459)
effects on atropine, protective effects of potassium sulfites against, 22:4721
effects on average molecular weight of polymethylmethacrylate, 21:28279 (CERN-67-14)
effects on avoidance behavior in rats, effects of intracranial self-stimulation on, 23:50865
effects on Bacillus cereus, effects of copper ions on, 24:34797
effects on bacteria and cells, review of repair processes following ionizing, 24:34787
effects on bacteria and yeast, genetic control of, 25:32386
effects on bacteria, bacteriophages, and yeasts, mechanisms in recovery processes following, 23:41512
effects on bacteria, effects of iodoacetic acid and vitamin K on lethal, 25:35262
effects on bacteria, eukaryotic cells, and viruses, review of ionizing, 24:14463
effects on bacteria, mechanism of effects of iodoacetic acid, sulfhydryl groups, and vitamin K5 on, 24:23401 (BARC-451)
effects on bacteria, mutagenic and physiological, 22:40615(R) (EUR-3889)
effects on bacteria, repair mechanisms for ionizing, 25:37856 (A/CONF.49/P-93)
effects on bacteria, review of recovery from, 22:26010
effects on bacteria, studies on DNA for determining, 24:21326
effects on bacteria, synergistic effects of halogen compounds with, 21:28700
effects on bacterial and brain tumor cells, sensitizing effects of BUDR on, 22:49237
effects on bacterial and mammalian cells, review of, 22:36419
effects on bacterial characteristics of processed seafood, effects of packaging on, 23:41521 (TID-24317, pp 84-103)
effects on bacterial contamination in milk, sterilizing, 24:19379
effects on bacterial growth in packaged fish and seafood, effects of dose and dose fractionation on, 24:2846 (RLO-1730-3)
effects on bacterial population of rats, whole-body, 23:35946 (ORAU-107, pp 68-70)
effects on bacterial spore count and toxicity of shrimp, effects of post-irradiation storage temperature on low dose, 22:49663(R) (ORO-3698-2)
effects on bacterial spores, protective effects of chemicals against, 25:4726
effects on bacteriophages, review on, 25:24474
effects on Bacterium prodigiosum, lethal, 22:10893
effects on bananas, mutagenic and toxic effects of, on fruit flies following ingestion, 22:43508
effects on barley and maize, effects of developmental stage and dose on mutagenic, 25:55190
effects on barley seed, effects of hydration on decay of free radicals induced by, 25:42296
effects on barley seed, effects of microwaves on recovery from, 24:12326
effects on barley, distribution of gene loci following mutagenic ionizing, 22:51548
effects on barley, mutagenic, 22:23489(R) (RLO-353-21)
effects on barley, specificity of eceriferum loci for mutagenic ionizing, 24:21144
effects on Battelle Research Reactor electrical components, 21:15773
effects on bcc and fcc crystals, computer simulation, 23:48973
effects on bcc crystals, propagation of chains of correlated atom/atom collisions in, (T), 25:52898(T) (JPRS-53800, pp 29-37)
effects on bcc metals, research on, 22:31420(R) (ORNL-4246)
effects on beagle dogs, lethal, 25:24331 (COO-119-242, pp 94-121)
effects on bean plants, mutagenic ionizing, 23:35941
effects on bean plants, physiological mechanism for mutagenic, 23:48011 (NYO-2043-194, pp 43-52)
effects on bean seedlings, protective effects of compressed nitrogen against, 21:22595
effects on beans, rats, and Tradescantia, ionizing, from color television set, 23:20433
effects on behavior and physiology of nervous system in vertebrates, external and internal, 24:39549 (EUR-4405)
effects on behavior of mice, computer methods in study of, 23:45890 (ANL-7535, pp 96-7)
effects on behavior of rats, relation of, to radiosensitivity, 22:33941
effects on benign and malignant cells of human vagina during therapy of cervical cancer, 23:33899
effects on benzene vapor containing nitrous oxide, mechanism of nitrogen and phenol production by, 22:30591(R) (RRL-2310-231)
effects on benzene, toluene, and xylene, ion—molecule reactions in, 23:327
effects on benzene—cyclopentanone, yields in, 22:12340 (NYO-2668-15)
effects on benzene—methanol and methanol, effects of benzene and naphthalene on deuterium isotope effects on yields in, 23:292
effects on benzene—methanol, effects of irradiation temperature on yields from, 23:237
effects on benzoyl peroxide at low temperature, radical formation in, 21:40886
effects on benzoyl peroxide—2,5-diphenyloxazole or p-terphenyl—benzene or toluene, 24:13893
effects on BEPO core and reflector graphite, models of, 21:15747
effects on binding of labeled triiodothyronine by intracellular components in rats, 23:9840(R) (ORO-3295-4)
effects on biochemical and bioelectrical activities of central nervous system of rabbits, ionizing, 25:13561
effects on biochemical and biophysical properties of muscle membranes, ionizing, 24:11929(R) (NYO-3467-2)
effects on biochemical differentiation of rat brain, ionizing, 23:47954 (UCLA-12-724, pp 71-87)
effects on biochemical processes in sheep with blackleg infection, 25:46986
effects on biochemicals in experimental radiobiology and clinical radiology, conference on, 24:50746
effects on biochemicals, cells, organisms, and tissues, conference on, 25:37730 (CONF-701047-(Absts.))
effects on biochemistry of animals and man, review of, 22:19426
effects on biochemistry of body fluids in dogs, man, and rats as indicator of radiation injuries, review on, 25:42402
effects on biochemistry of cells, ionizing, 22:6711 (BARC-287)
effects on biochemistry of lymphocytes, 21:18149
effects on biochemistry of plants, effects of gibberellins on, 24:9967
effects on bioelectric activity in human brain following therapy for arachnoiditis, 25:42678
effects on bioelectric activity in human brain, electroencephalographic studies on local and whole-body, 25:42677
effects on bioelectric activity in human cerebrum, effects of hyperventilation on ionizing, 21:39503
effects on bioelectric activity in rat brain, 25:35235
effects on bioelectrical activity in rabbit brain, 25:29688
effects on biological and ecological systems reinvading detonation site following nuclear explosion, effects of time on, 23:29476 (UCRL-71443)
effects on biological components of environment, concentrations of radioisotopes in relation to detectable, 25:37742 (A/CONF.49/P-85)
effects on biological macromolecules, ionizing, 22:49224
effects on biological material following Schooner event, fallout, 24:691 (UCRL-50718)
effects on biological material, biophysical aspects of, 23:50823
effects on biological materials, 22:14905 (BNL-50057, pp 111-22)
effects on biological materials, 24:9834
effects on biological materials during space flight, criteria for determination of, 22:47584
effects on biological materials in space, 24:27596
effects on biological materials, bibliography on ionizing, 25:16277 (AED-C-4-32)
effects on biological materials, comparison of high and low LET, 22:38318
effects on biological materials, conference on mechanisms of ionizing, 24:46664
effects on biological materials, effects of dose fractionation, dose rate, and LET on accelerator-produced ionizing, 22:8514 (CONF-670305)
effects on biological materials, effects of radiosensitizers on, 24:39521
effects on biological materials, hit theory associated with, 23:13974 (BNWL-715(Pt.2), pp 181-225)
effects on biological materials, mechanism for physicochemical protection against, 25:35166
effects on biological materials, molecular kinetics of ionizing, 22:40945
effects on biological materials, process of repair of, 21:30785
effects on biological materials, protective effects of drugs against, 22:12867
effects on biological materials, reaction mechanisms for, 25:44804
effects on biological materials, relation between RBE and dose in, 25:49105
effects on biological materials, review of dose concepts in analysis of, 23:20327
effects on biological materials, review of molecular mechanisms of ionizing, 22:43269
effects on biological materials, review of protective effects of sulfhydryl compounds against, 24:12119
effects on biological materials, review on measures for prevention of, 25:44819
effects on biological materials, role of biophysics in evaluating accelerator-produced, 22:8522 (CONF-670305-, pp 277-9)
effects on biological materials, role of free radicals in, 25:34639(R) (USC-113-P-21-3)
effects on biological materials, role of ion charge and velocity in interpretations of RBE for, 23:38575
effects on biological materials, role of radiotoxins in, 24:7987(T) (AD-691870)
effects on biological materials, single-hit theory of low dose, 25:507
effects on biological membranes, mechanisms for, 25:35210
effects on biological molecules, ionizing, 24:48405
effects on biological organisms, protection against, review of, 25:4524
effects on biological properties of proteins, review of, 24:50722
effects on biological systems of man during spaceflight, ionizing, 21:30911
effects on biological systems, characterization of recovery processes following, 22:25740
effects on biological systems, effects of dose rate, energy deposition, and LET on, 21:32731 (ANS-SD-4, pp 79-81)
effects on biological systems, factors affecting, 21:32629 (ANS-SD-4, pp 11-17)

effects on biological systems, hit region theory of, 22:6870(T) (NP-tr-1561)
effects on biological systems, ionizing, 23:6347(T) (NP-tr-1690)
effects on biological systems, ionizing, 21:22789
effects on biological systems, kinetic model for recovery at cellular and molecular levels, 24:27662
effects on biological systems, low-dose, 21:39423
effects on biological systems, mechanisms for lethal ionizing, 21:30876
effects on biological systems, mechanisms of recovery from, 25:52175 (A/CONF.49/P-163)
effects on biological systems, method for identification of radicals formed during ionizing, 24:34111
effects on biological systems, molecular role in, 25:37736
effects on biological systems, physical character of ionizing, 21:30785
effects on biological systems, progress report on role of mercapto-containing compounds in, 25:49100(R) (USC-113-P-21-X-5)
effects on biological systems, reaction mechanisms for, role of oxygen in, 21:20331(T) (NP-tr-1481)
effects on biological systems, report of research on, 23:11992(R) (NYO-910-75)
effects on biological systems, review of, 21:39485 (CONF-650847)
effects on biological systems, review of, 22:49535
effects on biological systems, role of DNA in repair following, 23:20317 (CEA-R-3676)
effects on biological systems, role of free radicals in pathological, 24:44433
effects on biological systems, theoretical study of primary, 21:22249
effects on biological systems, theory of direct and indirect, ionizing, 21:24358
effects on biological systems, use of copolymerization technique for identification of free radicals formed during ionizing, 22:28295
effects on biological tissues and microorganisms, review of ionizing, 24:854
effects on biologically important macromolecules, mechanisms of, 23:35159
effects on biosphere, relation with environmental pollution from pesticides, 22:27916 (BNL-12401)
effects on biosynthesis of protein in isolated mitochondria from rat liver, 23:47962
effects on biosynthesis of sex hormones in beagle dogs, combined effects of pregnenolone and progesterone on ionizing, 22:43244
effects on biphenyl—2-methylbutane solutions at -120°C, delayed emission and ion recombination in pulse, 25:26297
effects on bipolar, junction-gate, and insulated-gate field effect transistors in micro-power circuits of space vehicles, 21:34555
effects on bismuth—lead filled Zircaloy-2 capsules for pin-type reactor fuel elements, in-pile, 22:28861
effects on bladder and intestines in man, following therapy of bladder neoplasms, ionizing, 23:20280
effects on bladder carcinomas in man, palliative, 23:18057
effects on bladder of man following therapy for cervical carcinoma, ulcerative, 22:12902
effects on blast cell content of bone marrow of man, single localized therapeutic dose, 25:21921
effects on bleaching of N,N-dimethyl-p-nitrosoaniline, 23:47533
effects on bleaching of textiles, 22:6360(P)
effects on blood alkaline reserve and urine titration alkalinity in rabbits, combined effects of hemorrhage on, 23:10084
effects on blood and blood cells of rats, protective effects of cystamine and mexamine against, 23:10010
effects on blood and hematopoiesis of man following occupational exposure, 22:33966
effects on blood and metabolism of blood cells, 23:17916
effects on blood cell counts in medical personnel in Japan during 1969, survey of, 25:58134
effects on blood cell counts in progeny of rabbits, chronic, 24:34670
effects on blood cells and hematopoietic tissues, review of ionizing, 21:41494
effects on blood cells in man following therapy, use of tritium-labeled thymidine for determining effects of dose on, 24:21274
effects on blood cells in rats, 22:21574
effects on blood cells of animals and man, review of, 25:44901
effects on blood cells of medical personnel, review of effects of small doses, 25:19142
effects on blood cells of rats, protective effects of folic acid and vitamin B-12 against whole-body, 24:23241
effects on blood circulation in carcinoma cells of mice, effects of dose fractionation on, 25:11257 (BNL-50203, pp 210-14)
effects on blood circulation in human capillaries following occupational exposure, 24:12097
effects on blood circulation in human lungs following gynecological therapy, 23:29883
effects on blood circulation in man following therapy of cancer, 24:23390
effects on blood circulation in skin-capillaries following therapy of uterine cancer, 24:6133
effects on blood coagulating system and vascular resistance in man, 22:31210
effects on blood coagulation during therapy for human lung tumors, 25:32608
effects on blood coagulation in animals, effects of postirradiation thromboplastin injections on, 24:7753
effects on blood coagulation in dogs following erythrocyte destruction, 25:32463
effects on blood coagulation in man following cancer therapy, effects of dose on, 25:26668
effects on blood coagulation in man, effects of dose on ionizing, 22:52008
effects on blood coagulation in uranium industry personnel, chronic, low-dose, 25:44913
effects on blood coagulation, review of, 25:44898
effects on blood electrolytes and cholinesterase activity in rabbits, effects of general or local anesthesia on combined effects of surgery on, 24:23372
effects on blood formation and skin of medical personnel, 22:52011
effects on blood in man, effects of dose rate on, 23:31989
effects on blood of cattle, technique for extracorporeal exposure, 24:32209
effects on blood of dogs, effects of repeated small doses on ionizing, 23:41435
effects on blood of rabbits and rats, protective effects of platelet extract on, 22:33869
effects on blood picture of man following therapy for gynecological tumors, kinetics and prevention of, 24:34728
effects on blood pressure in dogs, effects of dose on ionizing, 23:33851
effects on blood pressure of rats following exposure of kidneys, 23:18117
effects on blood pressure of rats, effects of procaine on, 22:19364
effects on blood serum of rats, effects of, on function of isolated ileum and uterine tissues, 24:34680
effects on blood vessels in human cerebrum following therapy for cerebral gliomas, 25:19065
effects on blood vessels in wounds in rats, effects of healing stage on, 24:34548
effects on blood vessels of rabbits, protective effects of cystamine against, 22:47561
effects on blood vessels, latent damaging, 25:11256 (BNL-50203, pp 186-203)
effects on blood, bone marrow, and lungs of mice and rats, similarity between effects of vaccinal disease and, 25:58128
effects on blood, review of, 23:20410
effects on body systems of man, evaluation of combined effects of hyperbaric oxygen on therapeutic, 23:41414
effects on body weight and physiological functions of mice, effects of strain on, 23:18103
effects on bonding of 2,2,6,6-tetramethyl-4-piperidone 1-oxide to hydroxyl-induced DNA transients, ESR spectral studies on spin-quenching effects of oxygen on, 24:50426
effects on bone following therapy of mammary cancer, 22:2554
effects on bone marrow and bones following use for therapy of lymphogranulomos, 24:51087
effects on bone marrow and chromosomes in mammals, review on latent, aberrant, leukemic, and tumorogenic, 25:26943
effects on bone marrow and duodenal epithelium of rats, protective effects of AET against, 22:25885
effects on bone marrow and liver of rats, methods for detection of quinoids following, 22:49512
effects on bone marrow and lymphoid tissues of mice, effects of bone marrow transplants on, 24:6128
effects on bone marrow cells of man, effects of occupational exposure on ionizing, 21:43500(T) (TT-67-56008/2, pp 381-8)
effects on bone marrow cells, autoradiographic study of effects of cell phase on, 22:45657
effects on bone marrow in guinea pigs, chronic low dose whole-body ionizing, 21:24580
effects on bone marrow in rats, whole-body, 23:22427
effects on bone marrow nucleated cell and dysplastic hair growth in mice and rats, protective effects of cystamine against local and whole-body, 25:44838
effects on bone marrow of animals and man, morphological and histological studies of, 25:44894
effects on bone marrow of guinea pigs, processes of regeneration following, 23:48219
effects on bone marrow of human babies and man following exposure from atomic bombing in Hiroshima, autoradiography studies on, 25:19134
effects on bone marrow of mice, protective effects of AET, cysteamine, phenylephrine, and serotonin against whole-body, 22:33841
effects on bone marrow of rats in relation to stem cell population kinetics, design of model for compartmental analysis of, 25:11290
effects on bone marrow of rats, protective effects of cysteine and nucleic acids against, 25:49219
effects on bone marrow of rats, use of intraocular transplant technique for study of growth following, 25:2595
effects on bone marrow stem cells in mice, lethal, 25:35212
effects on bone marrow, cytological analysis of ionizing, 21:30890
effects on bone marrow, diagnosis of latent acute or chronic, 21:32794
effects on bone marrow, role of stem cell migration in regeneration of injuries caused by ionizing, 24:48678 (UCSF-10-P-2-112)
effects on bone morrow of mice, diurnal variations in, 25:6647
effects on bone sarcoma in leg of man, effects of hypothermia on therapeutic, 21:45753
effects on bones and dental tissues of man, prevention and treatment of pathological, 22:10844
effects on bones and lungs of man following postoperative therapy of breast cancer, pathological, 22:23581
effects on bones and other tissues of human mouth, pathological, 25:19079
effects on bones in hands of man exposed to atomic bombing at Hiroshima and Nagasaki, treatment for, 22:4683
effects on bones in man, pathological, 24:41997
effects on bones of animals and man, review of carcinogenic, 22:51947
effects on bones of children following therapy, ionizing, 24:42002
effects on bones of children, effects of dose on carcinogenic, 25:24442
effects on bones of human jaw, necrotic, ionizing, 23:38717
effects on bones of human mouth, effects of, on results of dental prostheses, 23:6601
effects on bones of man following therapy for mammary gland carcinoma, 22:36396
effects on bones, necrotic, 23:26919
effects on bones, relation of external and internal dose to carcinogenic, 25:24440
effects on bones, teeth, and salivary glands in mouth of man, 22:51942
effects on boron carbide control rod materials, 24:16235(R) (BNWL-1275)
effects on boron-free stainless steels, method for minimization of, 21:18306(P)
effects on botulinum toxin, effects of purity, substrate, and temperature on inactivating, 24:50724
effects on bowel of man following therapy for carcinomas of cervix and endometrium, external, 22:51766
effects on brachial plexus in man following therapy for mammary carcinomas, protective effects of actihemyl against paralyzing, 25:13480
effects on brain and endocrine glands of rabbits, combined effects of burns and, 24:34648
effects on brain and spinal cord of human patients following therapy of intraoral tumors, 24:6136
effects on brain edema, conference on experimental studies on, 23:50924
effects on brain in mice and rabbits, protective effects of cysteamine against pathological, 25:16225
effects on brain of man and mice, effects of dose rate on prenatal and postnatal, 22:31265
effects on brain of man, following therapy for pharyngeal cancer, 22:15093
effects on brain of rabbits, electrophysiological study of ionizing, 22:45715
effects on brain of rat embryos during shielding of mother's body, 23:29771
effects on brain of X. laevis, whole-body, 21:20094
effects on brain reflexes in rats, effects of 1-R dose on damaging, 25:26949
effects on brain stem of cats, uhf, 22:40939
effects on brain, gastrointestinal tract, heart, kidney, and lung of rats, whole-body, 24:34073 (AD-690855)
effects on breast cancers in man, effects of, on long-chain fatty acids in serum, therapeutic, 22:28555
effects on breast tumors in mice, effects of oxygen inhalation and triiodothyronine on, 22:38382
effects on breeding of crop plants, review of mutagenic, 24:41852
effects on bridging of poly(vinyl chloride)—epoxy compounds to yield improved resins, 23:40780(P)
effects on brittleness of metals and other solids, Saclay conference on, 22:28862
effects on bromoethane—chloromethane in cyclohexane solutions, electron scavenging in, 22:96(R) (RRL-2310-214)
effects on bromomethane—sulfur hexafluoride system in cyclohexane solutions, yields in, 22:30591(R) (RRL-2310-231)
effects on bubble diffusion in uranium carbide, effects of grain-boundary migration and size on, 21:16660
effects on bubble formation and porosity of uranium nitride fuels, 21:32951(R) (BMI-1798)
effects on butyl methyl ether, effects of diphenylpicrylhydrazyl on yields from, 22:42718(T) (AEC-tr-6937, pp 170-5)
effects on butyl methyl ether, effects of diphenylpicrylhydrazyl on yields in, 22:8133
effects on BWR fuels and cladding materials, 21:38519
effects on β-carotene in lipid solvents, 25:4467
effects on calcium and lithium fluorides and calcium sulfates, identification of charged particles from exo-electron emission from, 23:42415
effects on calcium metabolism in rat bones, effects of sex on, 25:55331
effects on calcium oxide, trapping positive holes induced in, 25:33402(R) (ORNL-4669)
effects on calcium-45 and phosphorus-32 metabolism in rabbits, localized, 22:43441
effects on calcium-45 and strontium-89 metabolism in swine, whole-body, 21:45568
effects on Callosobruchus maculatus emergence as adult from infested grains, 25:41833(R) (IA-1218)
effects on cancer cell sensitization, effects of hydroxyurea on, 25:49099 (UCLA-12-815, pp 1-36)
effects on cancer cells, review of, 24:32153
effects on cancer of esophagus in man, effects of, in cardiovascular system of patient, therapeutic, 23:29702
effects on canine treadmill performance decrement, review of whole-body, 25:11251 (AD-705976)
effects on Cannas, mutagenic, 25:516
effects on capacitors, 21:12735 (AD-641642)
effects on capicators, in air and vacuum, 21:39654(R) (AD-651144)
effects on capillary blood flow and residual volume following therapy of human lung carcinomas, 23:946
effects on capillary ultrastructure of nervous tissue in rats, whole-body, 22:33742
effects on carbide precipitation in stainless steel, 21:26852
effects on carbohydrate and fat metabolism in liver of rats, protective effects of insulin against, 22:8639
effects on carbohydrate and protein metabolism in rats, effects of dose on, methods for determining whole-body, 24:48434
effects on carbohydrate content of human intestines following abdominal therapy, inhibitory, 24:7756
effects on carbon dioxide, effects of nitrogen dioxide on yields from, 23:26270(R) (RPI-321-19)
effects on carbon dioxide, review on, 23:4676
effects on carbon-14 exchange between carbon dioxide and labeled carbon monoxide, 23:47537

effects on carbon-14-labeled carbon dioxide production, glucose absorption, oxygen utilization and mitochondrial function in rats, continuous, 25:10980
effects on carcinogenesis, combined effects of blastomogenic agents on ionizing, 24:825
effects on carcinogenicity of foods, 23:29933
effects on carcinoma of uterine cervix in man, effects of arteriosclerosis and hypertension on ionizing, 22:2528
effects on carcinomas and hypernephroma, use of leukocyte content in peripheral blood to measure, 21:45749
effects on carcinomas in man, relation of dose fractionation and time for, 25:11222 (BNL-50203, pp 280-5)
effects on carcinomas of human uterine cervix, complications following therapeutic, 25:26893
effects on carcinomas, hormone test for determining function of adrenal cortex following therapeutic, 21:45720
effects on carcinosarcomas in rats, effects of selective tissue oxygenation on, 22:10828
effects on cardiovascular system, kidneys, liver, and nervous system of patients following therapy for thyroid cancer, combined iodine-131 and teletherapy, 25:29707
effects on catalase activity in Escherichia coli, effects of strain on, 23:22441
effects on catalysis, 22:40124
effects on catalysts, 22:4218
effects on catalytic activity of solid aluminum oxide, chromium oxide, and zinc oxide, 22:2096 (CU-2791-6)
effects on catalytic materials and processes, 22:48876 (JAERI-1155)
effects on catalytic polymerization, theory of, 21:17664
effects on catalytic properties of semiconductor metal oxides in decomposition of hydrogen peroxide, 25:4099
effects on catalytic properties of tungsten sulfide for alcohol dehydration, 24:37541
effects on cataract development in man, 25:21915
effects on catechol methyltransferase and monoamine oxidase activity in rats, inhibiting, 25:35165
effects on catecholamine content in mouse tissue, 25:27017
effects on catgut and mersilene fibers, test of tissue tolerance following sterilizing, 23:48313
effects on cats, dogs, and mice, protective effects of AET against ionizing, 23:43801
effects on cats, mice, and rats, effects of antispasmodic drugs on protective effects of cystamine against, 24:7936
effects on cattle, sheep, and swine, necropsy reports on long-term, 24:12239 (ORO-672, pp 78-81)
effects on cell biolipids, chemiluminescent studies on, 25:35201
effects on cell counts in livers of embryonic and newborn rats, 21:34793
effects on cell cycle and fractional production of lymphocytes from thoracic duct of cattle following extracorporeal irradiation of lymph, 23:43879
effects on cell division and mitotic delay in Oedogonium cardiacum, effects of dose rate on, 25:8644
effects on cell membranes in green algae, 22:8650
effects on cell membranes of sympathetic ganglion, potential measurements of, 24:48665
effects on cell populations in rats after treatment with homologous bone marrow cells, lethal, 23:50846
effects on cell populations of mouse bone marrow, use of electronic particle counter for evaluating, 25:29648
effects on cell proliferation in spleen and immunological activity of chicken embryos, 22:19276
effects on cell structure in animals and man, review on, 25:35209
effects on cell structure, normal lung and neoplastic, 21:26568
effects on cell survival, effects of dose fractionation on, 25:13451
effects on cells and man, fundamental concepts of ionizing, 22:12786
effects on cells and organisms, effects of hypoxia on somatic, 22:43208(R) (UCSF-10-P-2-39)
effects on cells and spores, review of role of water in ionizing, 24:34786
effects on cells and tissues in relation to treatment of human tumors, (T), 23:947
effects on cells and tissues of man, review of, 24:25587
effects on cells and viruses, 1969 report on, 24:12215(R) (ORO-2832-79)
effects on cells following therapy for oral carcinomas in man, 23:45936
effects on cells involved in immune response in rabbits, whole-body, 23:33651
effects on cells of ganglionic and granular layers of rat cerebellum, 24:12272
effects on cells of liver and thymus of rats, ionizing, 22:45447
effects on cells of lymphosarcomas and ovarian tumors of rats, effects of chemical heterogeneity, morphology, and proliferative ability on, 24:34700
effects on cells of man, effects of dose, mitotic activity, and oxygen abundance on ionizing, 22:10839
effects on cells of mice, control mechanisms for immune function recovery in chimeric, 23:12016
effects on cells of tumors, effects of cell phase on therapeutic, 22:31131
effects on cells of Vicia faba, protective effects of low molecular weight organic compounds against aberrant, 22:49459
effects on cells, analysis of two-compartment theory of lethal, 25:4691
effects on cells, combined effects of chemical compounds on, mutagenic, 24:34396
effects on cells, comparison of sensitivity of lymphocytes and, 24:2766
effects on cells, conference on, Erevan, USSR, Oct. 29 to Nov. 3, 1968, 25:35196
effects on cells, cytokinetic analysis of, 22:51521
effects on cells, development of stochastic model for response following, 23:20341 (BNL-50058, pp 169-78)
effects on cells, DNA, and enzymes, effects of DNP and starvation on, 24:32143(R) (N-69-13276)
effects on cells, effects of chromosome volume on, 22:10854
effects on cells, effects of exogenous DNA on, 23:26686 (NP-17819, Chap.3.3)
effects on cells, effects of incorporation of halogenated pyrimidine analogues into DNA on sensitivity to, 25:4537
effects on cells, effects of phase of cycle and temperature on, 23:50808 (PHS-999-RH-33, pp 5-22)
effects on cells, hit and target principles for studying, 25:35199
effects on cells, kinetics of, 21:30902
effects on cells, local energy density requirements for ionizing, 24:44582 (EUR-4452, pp 83-105)
effects on cells, mechanisms of protective effects of sulfur-containing agents against ionizing, 25:4538
effects on cells, mechanisms of recovery from damaging, 25:35205
effects on cells, mechanisms of recovery from ionizing, 22:15054
effects on cells, method for deriving LET from survival curves for, 24:39585 (AERE-M-2302)
effects on cells, microdosimetry studies of, 25:18993
effects on cells, model for probability of survival of individual following, 22:51926
effects on cells, molecular mechanisms of protection against ionizing, 25:4535
effects on cells, molecular mechanisms of sensitivity to ionizing, 25:4535
effects on cells, neoplasms, and tissues, review of effects of oxygen on, 23:38617
effects on cells, organs, organisms, and molecules, ionizing, 23:9853
effects on cells, review of, 22:14952
effects on cells, review of ionizing, 22:23629
effects on cells, role of free radicals in, 25:35202
effects on cells, role of molecular lesions in, 23:35848
effects on cells, role of natural mechanisms in protective effects of thiols against, 24:12124
effects on cells, role of radiotoxins in, 25:35200
effects on cells, role of toxins in protective effects of AET against, 24:12336
effects on cells, statistical procedures for evaluation of, 23:24707
effects on cells, tissues, and tumors, effects of dose fractionation on, 23:45854
effects on cellular and humoral factors of natural immunity, ionizing, 25:18922
effects on cellular composition of marrow in mice and rats, 21:34791
effects on cellular kinetics, review of, 21:28425
effects on cellular population kinetics, review of, 24:34575
effects on cellular proliferation following transplantation of sterilized mammalian cells, enhancing and inhibitory, 25:11330
effects on cellular proliferation in epidermis, liver, and synchronous cell cultures, model for computer analysis of mechanisms controlling, 24:12259
effects on cellular recovery in lymphoid tissues of guinea pigs, 25:18919(R) (RLO-2225-T-16-1)
effects on cellular ultrastructure of man following use in therapy of neoplasms, 23:29713
effects on cellulose, 23:35181
effects on central nervous system and pituitary—adrenal cortex system in man, chronic low-dose, 25:39942
effects on central nervous system of cats, effects of dose on ionizing, 23:50830(R) (COO-1475-5)
effects on central nervous system of human children, latent pathological, 22:43398 (NP-17495)
effects on central nervous system of human embryos and fetuses following diagnosis or therapy during pregnancy, 22:47609
effects on central nervous system of man, mice, and rats, review of research on, 25:58143
effects on central nervous system of rabbits, effects of dose on late encephalographic and histological, 21:26600
effects on central nervous system, bibliography on ionizing, 22:550 (AD-648028)
effects on central nervous system, effects of dose on ionizing, 23:24749 (A-AC-82/G/L-1263)
effects on central nervous system, effects of, on function of brainstem and subcortex, ionizing, 24:25553
effects on centriole replication in sea urchin eggs in relation to delayed mitosis, ionizing, 23:2740(R) (COO-78-174)
effects on ceramic materials, 22:2687(R) (N-67-15390)
effects on ceramics, chemicals, electronic equipment, and metals, bibliography on, 22:49773 (REIC-Access-111)
effects on ceramics, interpretation of, 21:43673
effects on cereal and vegetable plants, mutagenic, 25:26686 (CONF-680112-, pp 95-111)
effects on cereal insect pests, effects of dose on, 25:52288
effects on cerebrum of man, incidence of necrotic, 24:34724
effects on cervical cancer in man in relation to oxygen tension and vascularization, 23:43841
effects on cervical cancer in man, effects of dose on, 23:18073
effects on cervical cancer in man, intercavitary radium and external, 25:26886
effects on cervical carcinomas in man, evaluation of therapy using, 23:29692
effects on cervical carcinomas in man, review of therapeutic, 23:881
effects on cervical neoplasms in man, development of proctitis following therapeutic, 22:31149
effects on cesium-131 uptake by tumors of dogs, man, and mice, 22:40592
effects on cesium-137 retention in rats, combined effects of drugs, electrical injury, stress factors, and, 25:47005
effects on chain reactions in flow systems, effects of mixing on, 23:26264 (BNL-12519)
effects on changes in bioelectric activity of human brain, 21:18118 (SZS-11/66)
effects on characteristics of globins of rats, effects of splenectomy on, 24:48395(R) (COO-2005-6)
effects on chemical activity of solid surfaces, 21:24035
effects on chemical and physical properties of cereal and vegetable starches, 24:48429
effects on chemical and physical properties of foods, 22:40990
effects on chemical and physical properties of ophthalmic ointment containing chloramphenicol and hydrocortisone, effects of dose on, 24:51125
effects on chemical binding of hexamethyldisiloxane to silica, 23:35204
effects on chemical composition and bacterial populations of seafood, 23:12255(R) (TID-24633)
effects on chemical composition and nutritional value of food, review on, 25:24493
effects on chemical composition of blood and urine from monkeys and rats, 21:39319(R) (AD-631232)
effects on chemical properties and content of glycoproteins in blood of human patients with gynecological neoplasms, ionizing, 23:26951
effects on chemical properties and storage life of potatoes, ionizing, 24:42048
effects on chemical properties of plutonium and uranium nitride and sulfide and uranium phosphide fuels, 22:64
effects on chemical reactions, 22:4218
effects on chemical reactions in processed food, 25:52283 (A/CONF.49/P-696)
effects on chemical reactions, review on, 22:23063
effects on chemicals in relation to human metabolism and radiotherapy, 25:13374
effects on chemisorption of hydrogen on γ-aluminum oxide, role of volume of solid in, 22:33412
effects on chick embryo fibroblasts, effects of cell phase on 100,000 R ionizing, 24:34593
effects on chicken meat, microbiological aspects of, 23:18170 (CONF-681006-, pp 189-92)
effects on children following intrauterine exposure, leukemogenic, 25:44951
effects on children of atomic bomb survivors of Japan, pathological, 22:28565
effects on chimeras, review of immunology of, 24:34155
effects on Chinese hamster cells, review of mechanisms of repair following, 22:25785
effects on chloramphenicol and hydrocortisone acetate in relation to sterilization of ophthalmic ointments, 25:8826
effects on Chlorella, effects of cell phase and dose on repair of, 25:47050
effects on chloride ion recombination in hydrochloric acid, 23:13748
effects on chlorination of hydrocarbons, 22:21143(P)
effects on chlorination of hydrocarbons, effects of dose and temperature on, 23:9482
effects on chlorination of polyethylene film or fibers, 22:21138(P)
effects on chlorine oxide and potassium chlorate, ESR spectra from paramagnetic centers induced by, (E/T), 21:9665
effects on chlorobenzene in cyclohexane solutions, mechanism of negative ion formation in, 25:41833(R) (IA-1218)
effects on chlorophyll of barley, effects of alkylating agents on mutagenic, 21:12819
effects on cholesterol content and function of adrenal glands in mice, effects of dose fractionation on latent, 22:49604
effects on cholesterol content of blood serum in chickens in relation to age and sex, ionizing, 23:50847
effects on cholesterol content of blood serum in rabbits, effects of pyridoxin on, 23:5025
effects on cholinesterase activity in blood plasma and erythrocytes of cats and man, 23:31660
effects on choroid, optic nerve, and retinal tissues in rats, comparison of, in relation to sensitivity, 25:11284
effects on chromaffin cells in dogs, acute, 25:46972
effects on chromates, nitrates, and nitrites, effects of solute concentration on yields of hydrogen from, 25:23609(R) (CEA-N-1409)
effects on chromatids and chromosomes of Crepis cells, effects of cell phase, FUdR, and puromycin on aberrant, 24:23176
effects on chromatographic profile of rat liver DNA, sensitizing effects of p-hydroxymercuribenzoic acid on, 25:21745
effects on chromel-alumel and iron-constantan thermocouple calibration, 22:16271(R) (BNWL-666)
effects on chromium—iron—molybdenum—uranium-base alloy, 21:31067(P)
effects on chromium—zirconium alloy and Zircaloy-2 reactor fuel cladding, 23:48497(R) (GEAP-10026)
effects on chromophobe adenomas in pituitary of man, combined effects of surgery on therapeutic, 22:12876
effects on chromosome aberration induction in mice, 21:18160
effects on chromosomes, 23:21727 (AI-AEC-12744, pp 179-82)
effects on chromosomes and constituent parts, reactions of intermediate electrons and hydrogen atoms following, 23:50331 (AI-AEC-Memo-12861)
effects on chromosomes and genes of amphibia, aberrant and mutagenic, 24:48492
effects on chromosomes and mitosis of pea seeds, histological study of, 22:23501
effects on chromosomes and morphology of Coriandrum sativum, aberrant, 24:14469
effects on chromosomes and seedling height of barley following seed exposure, 23:16270
effects on chromosomes between wheat and other plants, aberrant, 24:21113
effects on chromosomes from transplanted baboon and monkey bone marrow cells, aberrant, 25:35230

effects on chromosomes in ascites carcinoma cells in vitro, protective effects of cysteamine, mercapto ethanol, sodium thioglycolate, and unithiol against aberrant ionizing, 24:751
effects on chromosomes in bacteria, role of DNA repair in recovery following aberrant, 25:57970
effects on chromosomes in bone marrow of man, persistence of aberrant ionizing, 24:39419 (NIRS-8, pp 53-61)
effects on chromosomes in Campelia zanonia, aberrant, 23:8086
effects on chromosomes in children following in utero exposure during maternal therapy, aberrant, 25:16105
effects on chromosomes in corn, aberrant, 25:37898
effects on chromosomes in corneal epithelium of mice following preganglionic sympathectomy, aberrant, 23:45709
effects on chromosomes in cultured cells and plant seeds, effects of hypothermia on aberrant, 25:19093
effects on chromosomes in cultured hematopoietic cells of mice, aberrant ionizing, 23:12054
effects on chromosomes in cultured human lymphocytes, aberrant, 22:28432
effects on chromosomes in cultured leukocytes from man, aberrant, 22:28445
effects on chromosomes in cultured synchronized Chinese hamster cells, relation of lethality to aberrant, 24:21271
effects on chromosomes in gametes of Drosophila, aberrant, 23:29435(R) (UCR-34-P-105-12)
effects on chromosomes in human blood cells, aberrant chronic, 25:29501
effects on chromosomes in human bone marrow, aberrant, 25:16306 (NIRS-9, pp 55-61)
effects on chromosomes in human cells, aberrant, 24:48503
effects on chromosomes in human leukocytes following exposure to fallout at Bikini, Hiroshima, or Nagasaki, 22:28574
effects on chromosomes in human lymphocytes during therapy, protective effects of adrenochrome monoguanylhydrazone methanesulfonate against aberrant, 25:32458
effects on chromosomes in human lymphocytes, aberrant ionizing, 23:35731 (UCSF-10-P-2-80)
effects on chromosomes in human peripheral lymphocytes, review of aberrant, 25:57963
effects on chromosomes in human populations, review of aberrant, 23:43729
effects on chromosomes in insect larvae in Clinch River, aberrant ionizing, 23:29432
effects on chromosomes in leukocytes from personnel, aberrant, low-dose ionizing, 24:17021(T) (UCRL-Trans-10442)
effects on chromosomes in leukocytes of man, effects of occupational exposure on, 22:4594
effects on chromosomes in leukocytes of nuclear industry personnel, aberrant, 22:28436
effects on chromosomes in leukocytes of nuclear personnel, aberrant, 22:28437
effects on chromosomes in liver cells, of rats, protective effects of mexamine against effects of dose fractionation on, 23:24681
effects on chromosomes in liver cells, statistical analysis of aberrant, 22:36227
effects on chromosomes in man, aberrant, 25:21910
effects on chromosomes in patients with polycythemia vera, aberrant, 24:27641
effects on chromosomes in pea seeds, effects of oxygen on aberrant, 25:35119
effects on chromosomes in pea seeds, effects of postirradiation oxygen content on aberrant ionizing, 24:2829
effects on chromosomes in peripheral blood leukocytes of man, effects of dose and dose rate on aberrant, ionizing, 22:38492
effects on chromosomes in peripheral leukocytes of man, 25:52022(R) (NYO-4052-4)
effects on chromosomes in relation to carcinogenesis, aberrant, 22:45490
effects on chromosomes in relation to cell death, aberrant, 24:48479 (UCSF-10-P-2-110)
effects on chromosomes in relation to incidence of cancer or leukemia, aberrant, 23:29476 (UCRL-71443)
effects on chromosomes in root tip cells of Vicia faba, replication of aberrant, 25:24115
effects on chromosomes in winter rye seeds, effects of storage temperature on aberrant, 25:32619
effects on chromosomes of ascites carcinoma cells, protective effects of cysteamine and sodium thioglycolate against aberrant, 22:28617
effects on chromosomes of bone marrow cells in mice, effects of dose fractionation and local or whole-body exposure on aberrant, 23:16262
effects on chromosomes of cells, mechanisms of recovery from aberrant, 22:51546
effects on chromosomes of corn, aberrant, 24:677
effects on chromosomes of Crepis capillaris, effects of 5-fluoro-2'-deoxyuridine and puromycin on, 23:29442
effects on chromosomes of Crepis seeds, mutagenic, 25:26733
effects on chromosomes of cultured cells, analysis of aberrant, 24:34276
effects on chromosomes of cultured fibroblasts, effects of dose fractionation and thiourea on, 24:34286
effects on chromosomes of cultured human medullar cells, protective effects of amino groups against, 25:21808
effects on chromosomes of cultured microspores and microsporocytes of Tradescantia, microbeam, 23:48018
effects on chromosomes of cultured swine liver cells, use of scanning electron analyzing microscope to study late, 23:2919(R) (ANL-7409)
effects on chromosomes of Drosophila during meiosis, aberrant, 24:21135
effects on chromosomes of Drosophila, effects of, on viability of hetero- and homozygotes, 22:33788
effects on chromosomes of Ehrlich's ascites carcinoma cells, mechanism of protective effects of cysteamine against, 24:50957
effects on chromosomes of human blood leukocytes following cancer therapy, aberrant, 24:48521
effects on chromosomes of human bone marrow cells in vitro, protective effects of methionine against aberrant, 22:49438
effects on chromosomes of human cells, latent aberrant, 23:35685 (ORAU-107, pp 102-5)
effects on chromosomes of human embryo following in utero exposure to atomic bomb, aberrant, 24:48485
effects on chromosomes of human lymphocytes in relation to biological dosimetry aberrant, 24:25449
effects on chromosomes of human medullary cells, protective effects of DNA against indirect, 24:747
effects on chromosomes of leukocytes in man, latent aberrant, 22:21527
effects on chromosomes of leukocytes of man, accidental whole-body plutonium and uranium, 22:36248
effects on chromosomes of maize, repair of aberrant, in hybrids and parent generation, 24:48505
effects on chromosomes of mammals and plants, ionizing, 22:23490
effects on chromosomes of mammals, comparison of in vitro and in vivo aberrant, 24:21121
effects on chromosomes of man exposed to atomic bombing in Japan, statistics of aberrant, 25:18961
effects on chromosomes of man following prolonged exposure, aberrant, 25:49168
effects on chromosomes of man, aberrant, 24:46598(T) (LIB/Trans-274)
effects on chromosomes of man, aberrant, 22:15087
effects on chromosomes of man, conference on, 24:36736
effects on chromosomes of man, establishment of standard karyotype for reference in mutagenic, 22:17019
effects on chromosomes of man, following therapy, aberrant, 22:33956
effects on chromosomes of Meloidogyne (Nematoda), effects of dose on aberrant, 25:46793
effects on chromosomes of mice in relation to strain radiosensitivity, aberrant, 24:21120
effects on chromosomes of mice, effects of saline extracts from mice on aberrant, 25:16097
effects on chromosomes of mosquitoes, aberrant, 25:26694
effects on chromosomes of Nigella, effects of seed exposure on aberrant, 24:25460
effects on chromosomes of pea seeds, effects of free radicals on aberrant, 23:29448
effects on chromosomes of personnel at ENEL laboratory, ionizing, 23:12057
effects on chromosomes of personnel in nuclear industry, estimation of aberrant, 22:31030
effects on chromosomes of rye, effects of seed exposure and temperature on aberrant, 25:21997
effects on chromosomes of seeds of Crepis capillaris, aberrant, 24:50812
effects on chromosomes of Tradescantia, aberrant, 24:21110
effects on chromosomes of Vicia faba, protective effects of dimethyl sulfoxide against aberrant, 23:31695
effects on chromosomes, aberrant, 23:22257
effects on chromosomes, aberrant, 23:17994
effects on chromosomes, development of computer programs for, 23:38525 (UCRL-71493)
effects on chromosomes, distortion hypothesis for mechanisms in exchange, 23:43744
effects on chromosomes, effects of dose rate on aberrant ionizing, 24:25457
effects on chromosomes, factors affecting incidence of two-break aberrant, 23:45716
effects on chromosomes, in man, review of aberrant, 23:22305
effects on chromosomes, protective effects of anoxia and cysteamine against aberrant, 22:25888
effects on chromosomes, RBE of ionizing, 22:8497 (CONF-670305-, pp 45-50)
effects on chromosomes, use of Campelia zanonia for study of aberrant, 23:31697
effects on circulating blood in cattle, extracorporeal, whole body, 23:20370
effects on circulating blood, review of uses of extracorporeal, 24:7968
effects on circulation of blood to eyes of man, pathogenesis of latent, 22:8632
effects on circulation of lymphocytes in man in relation following therapy of lymphomas, abscopal, 24:4692
effects on circulatory system in transplanted Walker carcinoma tumors in rats, 25:19111
effects on circulatory system of laboratory animals, pathological, 25:58122
effects on cis—trans isomerization of 2-butene in aromatic solvents, effects of krypton, nitrous oxide, or xenon on yields from, 23:47548
effects on cis-trans isomerization in stilbene, fluorescence studies on effects of benzene on, 23:7102(R) (NYO-2962-7)
effects on cis-trans isomerization in stilbene, fluorescence studies on effects of benzene on, 23:7102(R) (NYO-2962-7)
effects on citrus fruits, effects of waxing and other treatments on storage life following, 23:26976 (IA-1160)
effects on citrus fruits, mangoes, and peaches, biochemical and economic evaluation of, 23:18163 (CONF-681006-, pp 135-9)
effects on clad fuel rods, in-pile, 21:1962 (WAPD-TM-574)
effects on clad oxide fuel elements, computer analysis of, 21:1963 (WAPD-TM-583)
effects on cladding and fuels at burnups of 2.1 at. percent, 22:2662 (BNWL-479)
effects on clams, effects of, on chickens following ingestion, 24:23412(R) (TID-25288(Vol.2))
effects on clams, effects of, on female and male chickens following ingestion, 24:34804(R) (TID-25288(Vol.3))
effects on clone size of HeLa cells, effects of nucleosides on, 23:11935(T) (AEC-tr-6646/4A, pp 69-72)
effects on cloning capacity of transplanted bone marrow cells in mice, effects of thymectomy on, 23:50390
effects on cloning of transplanted bone marrow cells in spleen of Rhesus monkeys, lethal, 24:29851 (AD-700742)
effects on closed circuit television equipment, 21:45493
effects on Clostridium botulinum in fish, effects of temperature on, 24:34832
effects on coagulation of acetylcholine and serotonin by blood and tissues of rats, 24:16982
effects on coagulation of blood in man, 25:37891 (NP-18815)
effects on coagulation of rabbit serum, whole-body exposure, 21:22275
effects on coaxial signal cables, currents due to, (E/T), 22:36155 (BNWL-749)
effects on cobalt complexes, isomeric effects in Szilard—Chalmers recoil of cobalt-60 from, 23:40759
effects on coefficient of respiratory control of liver mitochondria of rats, 23:29370
effects on coherent precipitates in cobalt—copper alloys, 22:28851
effects on cold resistance in wheat, effects of morphological traits on, 25:24457
effects on colloidal sulfur, effects of bromide, hydrogen peroxide, iron, oxygen, and 1-propanol on yields in, 23:274
effects on colloids, research progress on, 23:9419(R) (COO-1653-15)
effects on colon in man following therapy for malignant gynecological diseases, effects of dose on, 25:599
effects on colony formation by genetically incompatible spleen cell transplants in mice, 23:45678
effects on color and quality of green beans, 24:46689
effects on color and taste of prefried seafood, 23:20458
effects on color center induction in inorganic glasses, mechanism of, 22:30606
effects on color of dahlia, mutagenic, 23:41295
effects on color of potassium chloride crystals, deformation-induced enhancement of, (E), 21:16979
effects on color of synthetic sapphire vessels for use in radiolysis studies, 22:37786
effects on compacted trioxanes, preparation of polyoxymethylenes by, 25:21025(P)
effects on complex glasses, properties of defects from, 21:40099
effects on composition of pharmaceuticals, 21:22833
effects on compounds for use in industry, review on, 24:27139
effects on concentrated nitrate ion solutions, effects of cations on yields in, 22:23034 (IA-1128, pp 78-96)
effects on concentration of fission products in uranium dioxide fuel pellets, 21:25937(R) (K-L-1780(Pt.19))
effects on concrete shielding materials, 21:17543
effects on conjunctival, pulmonary, and renal tissues, 25:27036 (CONF-691057)
effects on connective tissue matrix, 23:35648
effects on connective tissue, protective effects of chemicals against ionizing, 23:18118
effects on connective tissues, review of, 22:33946
effects on content of acetylcholine in brain of rabbits, 23:43697
effects on content of acid-soluble deoxypyrimidines in nucleated blood clot cells in rabbits and rats, effects of 50 to 800 R doses on, 24:7746
effects on content of adenine nucleotides in blood cells, liver, and mitochondria of rats, whole-body ionizing, 22:51484
effects on content of amino compounds in plasma of rats, 22:419 (AD-648223)
effects on content of ascorbic acid, sugars, and water and growth of lettuce plants following seed exposure aboard Kosmos 110, ionizing, 23:35932(T) (JPRS-47582, pp 21-8)
effects on content of biogenic amines in guinea pigs and rats in relation to radiosensitivity, 23:17920
effects on content of bone marrow cells of rats, effects of postirradiation bleeding on, 22:40837
effects on content of bound phospholipids in liver of rabbits in comparison with effects of lipid radiotoxins or oleic acid, ionizing, 24:27524
effects on content of complement in blood serum of rats, use of Paramecium caudatum for determination of, 21:45795
effects on content of electrolytes in blood serum of man following therapy, 22:4694
effects on content of enterochromaffin cells in rat intestine, protective effects of mercamine and serotonin against, 24:17065
effects on content of enterochromaffine cells in guinea pigs and rats following exposure to minimum lethal doses, 23:38776
effects on content of epitestosterone and testosterone in urine of man after pituitary therapy, 24:29709 (UCRL-18793, pp 113-17)
effects on content of flavor compounds in oranges, low-dose, 22:49662(R) (ORO-3097-17)
effects on content of glucose, myofibrillar proteins, and ribose in fish, 23:41522 (TID-24317, pp 104-15)
effects on content of Heinz inclusion bodies in erythrocytes following medical or professional exposure, 24:34733
effects on content of lipid peroxides in brain, intestine, liver, and spleen of rats, effects of shielding head and abdomen on, 23:33633
effects on content of lipofuscin in brain of Beagles, combined effects of age on, 23:43856(R) (UCD-472-242)
effects on content of mercapto group in spinal cord of cats, 24:9766
effects on content of postassium and sodium in erythrocytes and blood plasma of animals, combined effects of local anesthesia on, 24:48692

effects on content of potassium and sodium ions in brain of rabbits, 23:43696
effects on content of potassium, proteins, sodium, and water in muscles of dogs, ionizing, 23:33634
effects on content of proteins and sulfhydryl groups in tumors, protective effects of hypoxia against, 24:34417
effects on content of quinones in guinea pigs and rats in relation to the development of radiation sickness, 23:17919
effects on content of reduced ascorbic acid, reducing sugars, sucrose, and total sugars in citrus fruits, low-dose, 22:49662(R) (ORO-3097-17)
effects on content of reducing sugar, sucrose, and total sugars of citrus fruits, effects of hot water dip on, 23:50964(R) (ORO-3097-8)
effects on content of residual nitrogen, urea, and xanthoprotein in rats, 24:34113
effects on content of sugars in peaches, effects of storage temperature and time on low-dose, 22:49662(R) (ORO-3097-17)
effects on content of sulfhydryl groups in Pliss ascites lymphosarcomas and ovarian tumors in relation to radiosensitivity, 24:34127
effects on content of sulfhydryl groups in serum following use for post-surgical therapy of human mammary cancer, 25:42270
effects on content of type E botulinum toxin in cod, effects of storage temperature on, 22:49660(R) (COO-1183-26)
effects on content of volatile compounds and spoilage patterns in fish, effects of dose on, 22:43499(R) (TID-24256)
effects on content of xanthurenic acid in urine of mice, 21:24621
effects on continuous graft polymerization of films, 23:19764(P)
effects on continuous polymerization of tetrafluoroethylene, 22:21147(P)
effects on control and telemetry circuits in spacecraft, 22:205 (N-67-18431)
effects on control of metabolic pathways, model for role of enzymes in, 25:42606
effects on control of olive fruit fly in Greece in combination with insecticides, attractants, and repellants, 25:29740
effects on Convolvulaceae and Leguminosae, ionizing, 25:4717 (NYO-2043-216, pp 1-18)
effects on cooperative function of carrier-specific lymphocytes in antihapten responses of guinea pigs, 25:10987
effects on copolymerization of trioxane and 1,3-dioxolane, 22:21145(P)
effects on copper complexes with cysteamine and penicillamine, ionizing, 25:4547
effects on copper fcc model at subthreshold energies, calculations of Frenkel defect annihilation in, 24:6639
effects on copper, temperature effects on length of correlated atom—atom collision chains from, (T), 21:37596
effects on corn plants, mutagenic, 25:24095
effects on corn, mutagenic, 24:682
effects on cornea of rabbits, healing effects of drugs and surgery on staphylococcus-infected wounds following, 25:29649
effects on corneal epithelium, electrophoretic studies of photophthalmic, 24:41983
effects on corrosion and mechanical properties of zirconium and zirconium alloys, 23:50979(T) (AEC-tr-6978)
effects on corrosion inhibitors, water filled probe for reactor in-core measurements of, 23:26090(T) (NP-tr-1755)
effects on corrosion of Type 304L stainless steel EBR-II fuel cladding, 24:4818 (IN-1331)
effects on corrosion of uranium silicide fuel, 21:28810 (AECL-2609)
effects on corrosion of zirconium alloys by hot water, autoclave design for studying in-pile, 23:12273
effects on corrosion of zirconium and Zircaloy-2 by water, 23:35998
effects on corticosterone content of adrenal glands and blood plasma of rats, protective effects of testosterone propionate against, 22:51797
effects on corticosterone content of blood of rats, protective effects of cystaphos against, 23:29774
effects on cotton seeds, effects of storage on restoration of viability following, 22:52025
effects on count and reactivity of lymphocytes in blood of patients with cirrhosis, extracorporeal, 25:29704
effects on count of bacteria in blood and tissues of guinea pigs and mice, 23:10081
effects on count of eosinophils from lymphocyte cultures following stimulation with antilymphocytic serum or phytohemagglutinin, 24:21272
effects on count of Escherichia coli in shrimp, 24:48771(R) (ORO-676)
effects on count of leukocytes in peripheral blood of personnel, 23:6596 (AERE-R-5766)
effects on count of leukocytes in peripheral blood of man, effects of dose on ionizing, 22:52007
effects on count of lymphocytes in rats, morphological analysis of extracorporeal, 23:35897
effects on count of stem cells in bone marrow of mice, effects of age on, 24:23339 (CONF-690501-, pp 603-12)
effects on covalent bonds and secondary and tertiary structures of globular and fibrous proteins, ionizing, 22:25779
effects on covalent crystals, review, 24:28412
effects on creep and electric conductivity of polymers, 24:12494
effects on creep and swelling of bcc and fcc metals, 24:8152 (AERE-R-5944(Vol.2), pp 547-65)
effects on creep behavior of graphite, 21:23612(R) (ORNL-4037)
effects on creep of niobium—zirconium alloy and Zircaloy-2, 23:36155
effects on creep of pyrolytic-carbon coatings for fuel particles, (T), 21:34174
effects on creep of uranium oxide and plutonium—uranium oxide at 900 to 1300°C, 23:36279
effects on creep properties of Type-304 stainless steel, in-reactor, 21:26869(R) (HW-83398)
effects on creep properties of Zircaloy-2, 21:26865(R) (HW-74679)
effects on creep rate of Zircaloy mechanisms of in-pile, 22:28857
effects on crop plants in India in relation to quality and yield, mutagenic, 25:52017 (A/CONF.49/P-537)
effects on crop plants in India, review of mutagenic, 24:41854
effects on crop plants, economics of mutagenic, 25:24094
effects on crop plants, economics of mutagenic, 25:24091
effects on cross linking of difluoroethylene polymers with compatible polyfunctional monomers, 25:44389(P)
effects on crosslinking and scission in saturated polyesters, 23:17498
effects on crosslinking in polyethylene, equations for determining effects of dose and temperature on, 21:30440(R) (COO-1088-27)
effects on crosslinking of drugs and polymers, pharmaceutical dosage based on, 25:6360
effects on crosslinking of elastomers, effects of chloroalkanes on, 25:18434
effects on crosslinking of halogen-containing olefinically unsaturated esters, 25:29119(P)
effects on crosslinking of norbornenyl-containing polymers, 25:23599(P)
effects on crosslinking of poly(methyl methacrylate) resins chains, 23:9459(P)
effects on crosslinking of polyethylene, 23:43348
effects on crosslinking of polyethylenes after heat treatment, 24:36285
effects on crosslinking of polymers in acetylene, 22:21139(P)
effects on crosslinking of polymers of vinyl alcohol and olefins, 23:33233(P)
effects on crosslinking of polymers, review on, 22:27786
effects on crosslinking of rubber, 22:25396
effects on crosslinking polymers in presence of acetylene, 23:11565(P)
effects on cryogenic insulation materials and composites, 22:781(R) (N-67-19129)
effects on crystal lattices, computer program for study of dynamics of, 25:33405 (IAE-2002)
effects on crystal lattices, order—disorder kinetics and, 22:26496
effects on crystal lattices, theory of, 24:6220
effects on crystal structure and properties of iron and molybdenum, in-pile, 22:21747
effects on crystal structure and stability of gadolinium oxide, 22:21722
effects on crystal structure defects in graphite, 23:1068
effects on crystal structure of metals, alloys, and semiconductors, 21:40564(R) (NAA-SR-12395)
effects on crystalline glycerol, effects of water on recombination of radicals from, 23:40699
effects on crystalline ice, effects of temperature on properties of transient radicals produced by, 22:30591(R) (RRL-2310-231)
effects on crystalline polyacetylenic compounds used in print-out elements for electron microscopes, 23:33231(P)
effects on crystalline solids, review of energies, mobilities, and structure of point defects from, 22:24445
effects on crystals of aliphatic amino acids and sugars, reactivity of free radicals produced by, 24:48106 (BNWL-1307(Pt.2), pp 43-4)
effects on crystals, anisotropic effects in damage from, (T), 23:32563
effects on crystals, calculation of collision cascades in, 22:20050
effects on crystals, coalescence of dislocation loops, gas atoms, and pores from, (T), 22:37026
effects on crystals, computer calculation of, 22:11499
effects on crystals, diffusional—dislocational flow from, 21:37555
effects on crystals, formation probability of H' centers from, 21:25181
effects on crystals, mechanisms of luminescence production in, 21:25211
effects on crystals, statistical test of equation for accumulation of F and M centers from, 21:25180
effects on crystals, void nucleation for supersaturation of vacancies and interstitials, (T), 25:52927
effects on culture media and food, review of cytotoxic and mutagenic, 25:49335
effects on cultured ascites lymphoma cells following injection into mice, 23:6390
effects on cultured cells of heart of monkeys, effects of ionic strength of medium on, 22:15079
effects on cultured cells of man, relation between LET and RBE for ionizing, 22:8593 (CONF-670305-, pp 51-62)
effects on cultured cells, effects of nonlethal doses on, 22:45508(R) (PG-Report-826)
effects on cultured cells, effects of total dose as function of dose rate on recovery from lethal, 25:8748
effects on cultured cells, research on modification of, 24:41755(R) (COO-78-220)
effects on cultured cells, review of, 25:19106
effects on cultured cells, review of mechanisms of, 23:22220
effects on cultured Ehrlich ascites cells, effects of, on transplantation to rats, 24:34702
effects on cultured HeLa cells in relation to therapy of cancer, model for effects of dose on, 23:29676
effects on cultured HeLa cells, effects of DNA synthesis on lethal, 22:40603
effects on cultured human cells, factors affecting recovery following lethal and sub-lethal, 24:9909
effects on cultured leucocytes, determination of parameters for indicating, 23:10053 (ORO-661, pp 56-7)
effects on cultured lymphocytes from infant and adult man, effects of dose and phytohemagglutinin on, 25:42602
effects on cultured mammalian cells, effects of cell phase on, 22:45677
effects on cultured mammalian cells, effects of inhibitors of DNA and protein synthesis in ionizing, 23:9834(R) (NYO-910-70)
effects on cultured mammalian cells, factors affecting hypoxic conditions in, 24:51018
effects on cultured mammalian cells, survival curves for, 21:13014
effects on cultures of Paramecium aurelia, protective effects of autogamy against ionizing, 23:16377
effects on curing of condensation-type prepolymers in the presence of chlorine-containing additives, 23:26286
effects on curing of fiber—plastic and plastic—wood combinations, 24:8213(T) (AECL-3327)
effects on curing of paints, developments in, 25:2243
effects on curing of polyesters produced by reactions of polyhydric alcohols with dicarboxylic acids, 23:45352(P)
effects on curing of polyesters produced by reactions of polyhydric alcohols with dicarboxylic acids, 23:45351(P)
effects on curing of polymers, survey on, 25:26283
effects on curing of urethan coatings, 25:41844(P)
effects on curing resins of poly(vinyl halides) and polyfunctional allyl or vinyl monomers, 25:18437(P)
effects on currents through MOS structures, 25:29412
effects on cyclohexane or 2,2,4-trimethylpentane and nitrous oxide, yields from, 23:47492
effects on cyclohexane solutions, effects of chloromethanes on yields in, 22:23034 (IA-1128, pp 78-96)
effects on cyclohexane, calculation of neutron excited molecules in, 23:282
effects on cyclohexane, kinetics of, 25:57473
effects on cyclohexane, review on, 22:42801
effects on cyclohexane—hexachloroethane system, 24:13974
effects on cyclohexane—iodomethane solutions, mechanism of methyl radical formation in, 21:1380(R) (RRL-2310-188)
effects on cyclohexanecarboxylic acid, free radical reactions in, 22:14553
effects on cyclopentane, effects of iodine on yields in, 22:50998
effects on cyclopropane mixtures with cyclohexane or hexane, effects of temperature on positive ion scavenging in, 22:30591(R) (RRL-2310-231)
effects on cyclopropane solutions in cyclohexane, effects of electron scavengers on positive ion reactions from, 23:43341
effects on cymarin, erysimin, and strophanthin, effects of Nipagin on, 25:15687
effects on cysteine and cystine contents of dried or fresh meats, effects of dose on, 25:24526
effects on cysteine oxygenase activity and taurine metabolism in mice, 24:34083
effects on cysteine, cystine, and DNA, lytic, pulsed, 23:47954 (UCLA-12-724, pp 71-87)
effects on cytochrome c peroxidase activity in normal rat tissues and Jensen sarcomas, effects of acidity and catalase inhibition on, 25:52202
effects on cytogenetic parameters in personnel, low-dose ionizing, 24:46597(T) (LIB/Trans-263)
effects on cytology and morphology of tumors, effects of anoxia and fractionated dose on, 24:34589
effects on cytology of abdominal organs, ionizing, 23:24746
effects on cytology of metastatic lymph nodes, 21:22723
effects on cytomorphology of human mammary gland tissue in relation to sensitivity to cancer radiotherapy, 24:4658
effects on Dahlbominus, mutagenic, 24:23161
effects on dark current and photoconductivity in anthracene crystals, 23:7102(R) (NYO-2962-7)
effects on dark current and photoconductivity in liquid 1,3,5-trimethylbenzene and methylnaphthalene, 23:7102(R) (NYO-2962-7)
effects on deamination of α-amino acids on oxygen-free solution, 22:36200
effects on decomposition of potassium nitrate crystals, 23:11552
effects on defect distribution and diffusion in silicon, 24:25808 (UCRL-50799)
effects on defects in iron, 21:39659 (NP-16837)
effects on defects in nonconducting crystals, models of, 23:42387(T) (AD-679694)
effects on deformation of materials, equipment and method for measuring, 25:49491(P)
effects on degradation of olefin polymers, 22:2168(P)
effects on degradation of polymers in solutions and solid phase, 22:4216
effects on degree of membrane association of subsequently transferred DNA in Escherichia coli minicells, 25:49112
effects on demineralization of teeth following therapy for nasopharynx tumors in man, 25:29712
effects on dendritic potentials in brain of rats, ionizing, 24:9928
effects on density of uranium carbide at -195°C, in-pile, 22:28856
effects on density of uranium dioxide at -195°C, in-pile, 22:28856
effects on density, hardness, and metallography of uranium alloys, 21:14885(R) (RISO-139)
effects on density, hardness, and microstructure of cobalt, 21:36885
effects on deoxycytidine excretion in leukocytes and tissues of animals and man, 25:24446

effects on deoxyribonucleoprotein composition in spleen and thymus in mice, effects of heparin on, 25:24410
effects on deoxyribonucleoprotein in animal hematopoietic and lymphatic cells, mechanisms for, 25:42624
effects on design criteria for reactor pressure tubing and fuel element cladding, 21:38679
effects on deterioration of natural and butyl rubber, 22:45113
effects on deuterated cyclohexane in cyclopentane, effects of proton acceptors on yields in, 23:2351
effects on deuterated methanol, effects of potassium fluoride on hydrogen yields in, 22:23034 (IA-1128, pp 78-96)
effects on deuterated propene in liquid methane at -181 to -94°C, yields in, 22:96(R) (RRL-2310-214)
effects on developing form and function of nervous system of rats in comparison to effects of ablation, 24:25560(R) (COO-1201-28)
effects on developing mammals, progress in research on, 24:23353 (CONF-690501-, pp 1013-15)
effects on developing spore system in Bacillus subtilis, 24:34077(R) (NYO-2804-27)
effects on development and growth of children exposed in utero to atomic bombings of Hiroshima and Nagasaki, 22:8574
effects on development and physiology of fish and mice, fallout rainwater, 22:28671
effects on development and yield of plants, 21:24674
effects on development of anastomotic leaks in dogs, effects of substituted 2-cyanoacrylate on, 25:21782
effects on development of arm edema in man following therapy and surgery for breast cancer, 23:35925
effects on development of basal cell carcinomas in man following therapy for burns, long-term, 25:29701
effects on development of bone fractures in man following therapy, 24:34729
effects on development of central nervous system in human embryos, aberrant, 25:42629
effects on development of chest tumors, growth, and life span of mice, low-dose, 22:45692
effects on development of chronic granulocytic leukemia in atomic bomb survivors, clinical and cytogenetical studies on, 25:24437
effects on development of colon stenoses following therapy of uterine carcinomas, 24:9953
effects on development of grape vine grafts, effects of dose on ionizing, 21:36755
effects on development of hematopoietic colonies on spleen of mice following injection of bone marrow cells, ionizing, 23:35905
effects on development of hematopoietic stem cells in mice, effects of bone marrow transplants on ionizing, 23:933(R) (NIRS-6)
effects on development of human adolescents, latent ionizing, 22:52011
effects on development of human dermatitis and epitheliomas following use for therapy of scalp, 23:45930
effects on development of human embryos and fetuses in relation to therapy during pregnancy, 23:29866
effects on development of human fetus, whole-body, 21:45758
effects on development of interrenal glands of amphibians, 22:45695
effects on development of latent injuries, whole-body, 21:18133
effects on development of leukemias in man and mice, review of, 23:29769
effects on development of mammary carcinomas in rats, synergism between diethylstilbestrol and, 25:27011
effects on development of myeloproliferative diseases in animals and man, factors affecting, 25:583 (CONF-680529-, pp 149-70)
effects on development of myeloproliferative disease in man and swine, review of, 25:596 (CONF-680529-, pp 489-500)
effects on development of neoplasms in man following therapy for retinoblastoma as children, 23:29884
effects on development of nephrosclerosis in mice, protective effects of AET against, 23:18075
effects on development of nervous system of rats in comparison to effects of ablation, 25:42615(R) (COO-1201-30)
effects on development of osteogenic sarcomas in man following childhood therapy for malignant retinoblastomas, combined radium and, 25:29702
effects on development of permanent teeth in children following therapy of eye tumor, 24:42008
effects on development of pneumoconiosis in animals following inhalation of radioactive dusts, 22:45683
effects on development of postharvest diseases in fruits and vegetables, review of, 22:52125
effects on development of silkworm eggs, 21:20344
effects on development of vesicovaginal fistula in man following therapy of gynecologic neoplasms, 25:58135
effects on development, egg hatching, and larval infectivity of nematodes, effects of dose on, 25:46793
effects on devices and materials, conference on, 25:21486
effects on dextran, effects on animals of products from, 22:14535
effects on diacrylyl polyamides, production of radiation-sensitive telomerized polymers by, 24:4317(P)
effects on diamonds, review of defects produced in, 25:59137
effects on dibenzyltoluene, in-pile, 21:28872
effects on dictyocaulus larvae for use as vaccine for cattle, 25:39805
effects on dielectric liquids, ionizing, 23:42463
effects on dielectric relaxation and electric conductivity of poly(chlorotrifluoroethylene), 23:49840
effects on dielectric systems, self-trapping of free electrons from, 22:22234
effects on differential leukocyte counts of personnel in relation to normal range, chronic, 23:29854
effects on differentiation and proliferation of lymphocytes in thymus gland of mice, effects of low dose rate ionizing, 24:36813 (NYO-3970-45)
effects on differentiation of immunologically competent transplanted cells in rats, 21:22651(R) (EUR-3261.i)
effects on differentiation of immunoresponsive cells from bone marrow progenitors in mice, 25:26669
effects on diffusion in bcc metals, review of, 21:24808
effects on diffusion of aluminum in silicon, model calculations, 24:10605
effects on diffusion processes, ionization mechanism in, 21:30464
effects on digestive and phagocytic functions of reticuloendothelial system of rats, ionizing, 22:23610
effects on dilute solutions of hydrogen peroxide, 23:19801
effects on dimensions and thermal conductivity of low-permeability graphite, 22:34126(T) (NSJ-tr-102)
effects on dimerization of cyclohexane—tetrahydrofuran, yields of products in, 21:23908 (BNL-50042)
effects on diodes and bipolar transistors, transient, 25:8581 (LYCEN-6933)
effects on diodes and transistors, review, 21:3367
effects on diphenylamine on oxide adsorbents, thin-layer chromatographic studies of catalytic processes in, 23:47577
effects on dipolar substances, dielectric constant equations for ions produced in, 24:20827
effects on dipolar substances, role of dielectric constant in ionic processes in, (T), 25:22580
effects on dipolar systems, thermal electron escape from, 21:42983
effects on disease incidence and nonspecific life-shortening in man following Project Rulison detonation role of food chain and inhalation pathway doses in, 24:39472 (UCRL-50791)
effects on dislocation channeling in metals, 25:4809 (AD-710358)
effects on dislocation structures in strained iron, 24:39674
effects on dislocation structures in strained iron, 24:39675
effects on distal ureters following therapy for uterine carcinoma in man, surgical repair of, 22:47605
effects on distribution of excited states in biological molecules, 24:7729 (CEA-Bib-162)
effects on distribution of intracellular enzymes in cultured cells and tissues, 22:45508(R) (PG-Report-826)
effects on distribution of iron radioisotopes in organs and tissues of guinea pigs, 23:24511
effects on dithiodiacetic acid, ESR study of ion formation from, 22:30618
effects on diurnal rhythm of mitotic activity in rectum epithelium of rats, stimulating, 24:25398
effects on diurnal variation of free radical concentration in mice spleen and liver, 24:50732
effects on diversity index of shortgrass in Colorado, effects of exposure rate and seasons on, 25:21617 (COO-1156-40, pp 31-6)
effects on division of cultured mammalian cells, review of, 22:40876
effects on DNA, 23:21727 (AI-AEC-12744, pp 179-82)
effects on DNA (carbon-14) distribution in rats, 21:20068
effects on DNA and messenger RNA, mechanisms for mutagenic ionizing, 23:43746
effects on DNA and related compounds, kinetics of free radical reactions with oxygen following lytic pulsed, 24:44422
effects on DNA and RNA in seeds of peas, tracer study of ionizing, 22:28388
effects on DNA and RNAase of phi X 174 bacteriophage, molecular mechanisms for, 23:38892
effects on DNA base pairing in pea seeds, 22:51399
effects on DNA base synthesis in relation to thymidine incorporation, 24:11943
effects on DNA breakdown in bacteria, effects of actinomycin, chloramphenicol, and proflavine on, 23:41234
effects on DNA content in proembryo stages of barley, lethal, 25:13405
effects on DNA content of carcinomas in mice, effects of 6-azauridine on, 23:24691
effects on DNA distribution in proliferating lymphocytes, in vitro, 25:39928
effects on DNA in bacterial and mammalian cells in relation to radiosensitivity of cells, effects of repair capabilities on ionizing, 24:11951
effects on DNA in bacteriophages, injurious ionizing, 24:8024
effects on DNA in Escherichia coli, 24:34077(R) (NYO-2804-27)
effects on DNA in Escherichia coli, ionizing, 23:6401
effects on DNA in hepatectomized rats, effects of dose and time on, 25:27020
effects on DNA in L cells, mechanism of repair of, 23:33810
effects on DNA in liver of rats, 22:51450
effects on DNA in tissues of rats, sensitizing effects of hydroxymercuribenzoic acid on, 25:42535
effects on DNA in vitro and in vivo, comparison of, 25:10966
effects on DNA metabolism in mice, ionizing, 22:25766
effects on DNA molecule in lambda and T2 coliphages, role of hydrodynamic shear in mechanism of cleavage, 24:50697
effects on DNA molecule of lymphosarcoma cells, ionizing, 22:36177
effects on DNA molecules of Escherichia coli, combined effects of oxygen on lytic, 22:33793
effects on DNA of α phage, relation of, to synthesis of α messenger RNA, 22:25783
effects on DNA of Bacillus subtilis, effects of dose on ionizing, 23:50333(R) (YALE-2653-34)
effects on DNA of bacteriophages and Escherichia coli, review of repair mechanisms, 23:24591
effects on DNA of higher organisms, mechanism of ionizing, 23:50832 (PHS-999-RH-33, pp 2-4)
effects on DNA of loach sperm in comparison to effects of ethylenimine, ionizing, 24:16976
effects on DNA of lymphoma cells, 23:50802
effects on DNA of mammalian cells, excision repair studies of, 25:46709 (UCSF-10-P-2-136)
effects on DNA of mammals, role of enzymes in repair of ionizing, 22:38409
effects on DNA of sea urchin eggs, role of repair synthesis in prefertilization recovery from ionizing, 23:2740(R) (COO-78-174)
effects on DNA solutions, quantitative determination of nitrogen bases and nucleosides released following, 25:52004
effects on DNA structure, conference on, 21:24367
effects on DNA synthesis and enzyme systems in regenerating liver, 21:45513
effects on DNA synthesis and mitosis in cultured human leukocytes, use of microspectrophotometry for determining, 24:21273
effects on DNA synthesis and mitotic cycle, review of, 25:16281
effects on DNA synthesis in epithelium of small intestine and tongue of mice, combined effects of Endoxan on, 22:36315
effects on DNA synthesis in first postirradiation life cycle of cultured mouse leukemic cells, 22:40587
effects on DNA synthesis in human lymphocytes, acute stimulatory ionizing, 23:800
effects on DNA synthesis in yeast cells, tracer study of, 25:13604
effects on DNA synthesis, effects of, on radiosensitivity of cells, 23:7968
effects on DNA tritium activity in bone marrow cells of guinea pigs, effects of acid hydrolysis on, 23:20353
effects on DNA, determination by enzymatic hydrolysis, 23:26687 (UCLA-12-706, pp 45-72)
effects on DNA, effects of hydrodynamic forces following, 22:49198
effects on DNA, effects of physical state on, 22:47480
effects on DNA, genetic implications in repair of structural, 23:35653
effects on DNA, mechanisms of uv-radioinduced precursor incorporation and repair of, 24:41757
effects on DNA, protective effects of cystamine, GED, and pentemethylene diguanidine against degratory, 25:26801
effects on DNA, protective effects of propyl gallate against, 23:9430
effects on DNA-histone ratio in liver, spleen, and thymus of rats, 24:21079
effects on DNA-protein complex of chromatin, effects of 100 R in vitro and 1000 R in vivo, 24:16984
effects on DNP of chromatin, phenolic deproteinization method for studying, 25:29458
effects on docosafluorobicyclohexyl, pyrolytic decomposition in, 23:40534 (BNL-50149, pp 26-39)
effects on dogs and mice, protective effects of bone marrow against, 23:50641
effects on dogs and monkeys, protective effects of bone marrow transplantation against secondary, 23:50882
effects on dogs and other animals, 24:29852(R) (UCD-472-116)
effects on dogs and rabbits, effects of simultaneous blood transfusions on bone marrow treatment of, 23:50880
effects on dogs in relation to survival of kidney homografts, ionizing, 23:35670
effects on dogs, at different depth dose distributions, selection of criteria for evaluation of, 24:51063
effects on dogs, effects of aminohexanoic acid on combined effects of blood loss and, 25:39887
effects on dogs, effects of blood transfusions or splenic cells on bone marrow following, 23:48002
effects on dogs, effects of bone marrow transplants on lethal, 23:50634
effects on dogs, effects of mixed-donor bone marrow transplants on recovery from, 23:29585
effects on dogs, man, and mice, performance of bone marrow grafting in relation to number of cells for treatment of, 23:18072
effects on dogs, mice, and rats, protective effects of AET against, 24:12127
effects on dogs, prophylactic effects of blood transfusions from convalescent donors on, 22:38378
effects on dogs, protective effects of amytetravit and ATP against, 24:50951
effects on dogs, protective effects of bone marrow transplants against lethal, 24:626
effects on dogs, use of fresh and preserved autologous bone marrow transplants for treatment of superlethal, 23:29592
effects on domestic and industrial sewage and waste water, review of literature on, 25:48534
effects on domestic animals, insects, and plants, review of agricultural applications of, 24:25599
effects on donor mice, effects of, on number of immunocompetent cells produced in recipient mice, 23:7970
effects on dormant seeds of Crepis capillaris, mutagenic ionizing, 24:9813
effects on dormice, protective effects of AET, cysteamine, cysteine, and serotonin against whole-body, 25:46894
effects on double bond formation, hydrogen evolution, and temperature coefficient of crosslinking in polyethylene, at 35 to 120°C, 21:30440(R) (COO-1088-27)
effects on double- and single-stranded DNA, effects of temperature on, 23:790
effects on Drosophila melanogaster, mutagenic, 23:26721
effects on Drosophila willistoni, genetic, 24:31911
effects on Drosophila, comparison of natural lethal with lethal mutagenic, 23:26718 (NYO-2733-16)
effects on Drosophila, effects of heterozygosity on mutagenic, 22:23492

effects on Drosophila, lethal and mutagenic, 25:39908
effects on dry fern spores, reaction mechanisms for ionizing, 25:4709
effects on duodenum of mice, protective effects of mixtures of AET, glutathion and serotonin against, 21:22517
effects on durability of polymers, 25:21002
effects on duration of cell cycle and mitosis in Ehrlich ascites carcinoma in relation to radiosensitivity, 24:34584
effects on durum wheat, application for patent and registration for products of mutagenic, 22:33983
effects on durum wheat, genetic analysis of mutagenic, 22:49304
effects on Dutch Elm and millet, mutagenic, 22:14905 (BNL-50057, pp 111-22)
effects on dyes, review on, 25:15667
effects on ears of dogs, histological studies of otosclerotic, 24:41982
effects on ecology of animals and plants, research on, 23:48007 (UCLA-12-724, pp 1-21)
effects on economic characteristics of cotton hybrids, 23:45700
effects on economically important plants, summary through 1969 of useful mutagenic, 24:50825
effects on ecosystems in Colorado, progress report fór 1970, 25:21613(R) (COO-1156-40)
effects on ecosystems, combined effects of environment on ionizing, 23:29429
effects on ecosystems, natural and fallout, 24:41784
effects on ecosystems, review of ionizing, 23:50586 (CONF-671135-, pp 107-35)
effects on EEG of animals in relation to behavior changes, 23:29741 (SZS-14/68)
effects on eggs of silkworms in relation to radiosensitivity of mitotic stages, mutagenic, 23:43734
effects on Ehrlich ascites carcinoma cells, 25:39899
effects on Ehrlich ascites carcinoma following in vitro exposure, 24:34586
effects on Ehrlich ascites tumor cells in mice, effects of reduction state of pyridine nucleotides on ionizing, 23:2740(R) (COO-78-174)
effects on Ehrlich ascites tumor cells, effects of glucose-altered cell metabolism on ionizing, 23:2740(R) (COO-78-174)
effects on Ehrlich ascites tumor cells, mechanism of protective effects of cysteamine and AET against, 25:35204
effects on Ehrlich carcinoma in mice, effects of dose and time interval on, 23:16394
effects on Ehrlich carcinoma, effects of administration time of 6-azauracilriboside on, 22:47555
effects on Ehrlich's ascites carcinoma cells, effects of N-ethylmaleimiole and para-chlormercuribenzoate on, 23:24705
effects on elastic properties of shells, 21:17799(T) (NASA-TT-F-284)
effects on elastic tissue of human skin, fluorescence study of, 23:29843
effects on elasticity, lecithin metabolism, and surface activity in rat lungs, 25:21859
effects on electric conductivity of alkanes at low temperature, 23:17461 (JAERI-5018, pp 68-9)
effects on electric conductivity of cyclohexane, isobutyl vinyl ether, α-methylstyrene, and styrene, 21:19697
effects on electric conductivity of cyclohexane, isobutyl vinyl ether, α-methylstyrene, and styrene, 22:8100(T) (AEC-tr-6908, pp 97-116)
effects on electric conductivity of hexane, effects of 1,2-benzanthracene, chrysene, naphthacene, and pyrene on, 23:17460 (JAERI-5018, pp 65-7)
effects on electric conductivity of high-purity silicon, 21:34933(R) (N-66-30276)
effects on electric conductivity of liquid hydrocarbons, effects of pressure on, 24:36317
effects on electric p—n transitions of highly alloyed gallium arsenide, 23:18720 (IAE-1659)
effects on electric parameters of skin, histomorphological studies on, 25:13565
effects on electric potential and permeability of gastric mucosa of rats, 23:31637 (AD-683308)
effects on electric potential of muscle cells from frogs, 21:24616
effects on electrical activity of brain of monkeys in relation to adrenolytic and cholinolytic system, 24:27691
effects on electrical and physical properties of polyethylene and silicone rubber insulation, 23:46155
effects on electrical properties of colloids, in relation to therapy of ascites tumor cells, 22:15022
effects on electrical properties of oxides, activation energy and defect type in annealing recovery of, 25:1291
effects on electro-mechanical coupling function of muscle fibers in frogs, 24:23373
effects on electrocorticogram and evoked responses in cerebral cortex of rabbits during photostimulation, 24:44599
effects on electroencephalogram responses of rabbit brain in comparison to effects of magnetic fields, UHF electromagnetic and ionizing, 23:26896
effects on electroencephalograph of man, occupational chronic ionizing, 23:31971 (A-AC.82/G/L-1264, pp 63-72)
effects on electrolyte composition of blood plasma and cerebrospinal fluid of rabbits, protective effects of cystamine against, 22:51903
effects on electrolyte levels and pressure of blood, pulse rate, and creatinine and electrolyte levels in urine of man following radon inhalation therapy for hypertension, 22:51959
effects on electrolyte metabolism in rats, combined effects of open skin lesions and, 25:55332
effects on electrolytes in heart muscle of rats, effects of adrenalectomy on, 25:16351
effects on electron attachment in nitrous oxide, rate constant for, 22:30591(R) (RRL-2310-231)
effects on electron scavenging in chloromethane and nitrous oxide in cyclohexane solutions, 21:27996(R) (RRL-2310-199)
effects on electron spin resonance of semiconductors, (E), 21:44205
effects on electron trapping in alkaline ice and methanol and methyltetrahydrofuran glasses, EPR spectral studies on, 22:33375(R) (COO-1528-26)
effects on electron trapping in alkaline ice, EPR spectral studies on thermal decay in, 22:33375(R) (COO-1528-26)
effects on electron tubes, 21:12732(R) (AD-639610)
effects on electronic components, bibliography on, 25:479 (N-70-31746)
effects on electronic components, manual on, 21:18303 (UCID-4544)
effects on electronic equipment, conference on, 22:12722
effects on electronic equipment, design of transient signal recording system for studying, 22:43197
effects on electronic mechanisms in solid-state photolysis, 21:32136 (BNL-11522)
effects on electrophoretic pattern of proteins in human saliva, 25:57945
effects on electrostatic properties of polyenes coated with silica or silicic acid films, 21:129(P)
effects on elements under primitive earth conditions, abiogenic, 22:25789
effects on elimination of Salmonellae from frozen meats, ionizing, 24:34827
effects on embryonic central nervous system, conference on, 21:24536 (CONF-631008)
effects on embryonic development of animals and man, 25:27036 (CONF-691057)
effects on embryonic development of Colorado beetle, effects of stage of embryogenesis on, 25:44891
effects on embryos and newborn of animals and man, review of leukemogenic and teratogenic, 22:49596
effects on embryos of mammals, 21:24540 (CONF-631008, pp 111-17)
effects on embryos of mice, method for in vitro study of, 24:2774 (NYO-4039-1, pp 17-19)
effects on embryos of tench, effects of developmental stage on, 24:27693
effects on emulsion oxidation of organic compounds, 24:7447 (TID-25265)
effects on emulsion polymerization of chlorotrifluoroethylene and tetrafluoroethylene, 22:33402(P)
effects on emulsion-polymerization of fluoroolefins, 23:4652(P)
effects on endogenous dehydrogenase activity and content of sulfhydryl groups in skin of guinea pigs, effects of etonium on, 24:32049
effects on Endoxan toxicity for Escherichia coli and HeLa cells, effects of phosphate buffer on, 22:23473
effects on energy and water—salt metabolism in rat brain, effects of postexposure time on sublethal, 24:51035
effects on English sole meat, bacteriological evaluation of, 23:18132 (CONF-681006-, pp 77-81)
effects on environment and man, damaging, 25:24435
effects on environment from nuclear weapons testing and reactors, 24:39467 (RLO-2225-T-1-1)
effects on environment of man, 22:2555
effects on environment, AEC research on, 22:21017
effects on enzyme activities in epithelial cells of intestine of neonatal rats, effects of prenatal exposure on, 24:50734
effects on enzyme activity in animals, protective effects of chemicals against ionizing, 24:34404
effects on enzyme activity in cotton plants following exposure of parent, 24:12056
effects on enzyme activity in erythrocytes of tumor patients, effects of dose and vitamin B-6 metabolism on, 24:50759
effects on enzyme activity in erythrocytes of uranium miners, 25:24451
effects on enzyme activity in humans, 21:8711
effects on enzyme activity in mice livers, effects of hypoxia on, 25:535
effects on enzyme activity in plasma of rats, protective effects of cystamine against, 21:34712
effects on enzyme activity in rabbits and rats, comparison of, to radiomimetic effects, 22:49239
effects on enzyme content of rat organs, effects of dose on whole-body, 24:50756
effects on enzyme in liver of rats, effects of glucagon hydrocortisone, and starvation on whole-body, 22:19271
effects on enzyme metabolism in animals and tumor patients, effects of dose on ionizing, 24:50755
effects on enzymes and pathways of thymine metabolism in man, mice, rabbits, and rats, 22:45508(R) (PG-Report-826)
effects on enzymes in aqueous solutions, kinetics of inactivating ionizing, 21:34583
effects on enzymes in human serum and liver of mice, protective effects of bone marrow transplants against, 22:4577
effects on enzymes in organs of rabbits and rats, effects of injection of ATP and nicotinamide on, 25:13379
effects on enzymes of food, 24:5993 (STI/PUB-216)
effects on enzymes, observation of sulfur bridge reduction following lytic pulsed, 24:44423
effects on enzymes, review of ionizing, 21:28409
effects on enzymes, review on mechanism of, 25:46732
effects on eosinophil and 17-oxycorticosteroid content in blood of hypophysectomized dogs, 21:26572
effects on epidemiology of leukemia, 21:26506
effects on epithelioma of epiglottis of man, therapeutic, 22:25977
effects on epithelium of small intestine of mice, electron microscope study of whole-body ionizing, 24:14605
effects on epoxy resins, effects of properties and structure on, 24:27103 (CERN-70-10)
effects on EPR of free radicals in lipids of rats, 21:34609
effects on equilibrium maintenance behavior of monkeys, effects of dose on pulsed ionizing, 23:33820 (AD-680748)
effects on equilibrium of monkeys, pulsed ionizing, 22:551(R) (AD-648671)
effects on ergosterol, polarographic determination of products from, 24:26970
effects on erythroctyes in animals and man, review of, 23:31990
effects on erythrocyte population in rats, analysis of cell volume for determination of, 25:16304 (CEA-CONF-1591)
effects on erythrocytes, 21:22294
effects on erythrocytes and lymphocytes of calves following extracorporeal exposure of blood, 25:24303
effects on erythrocytes parasitized by Plasmodium berghei, effects of, on immunity in mice and rats, 22:38473
effects on erythroid cell response of bone marrow and spleen of mice, effects of dose fractionation on, 24:14603
effects on erythropoiesis in dogs, effects of age on, 23:31952
effects on erythropoiesis in hematopoietic tissues and erythroid spleen colonies in mice, combined effects of testosterone on ionizing, 23:29747
effects on erythropoiesis in mice, 25:37733(R) (ORO-3547-43)
effects on erythropoiesis in mice, effects of dose on, 25:49281 (AD-716615)
effects on erythropoiesis in mice, effects of radioprotective agents on, 23:31821
effects on erythropoiesis in mice, protective effects of bone marrow or spleen cell transplants against lethal, 22:6876
effects on erythropoiesis in mice, use of blood cells following, for suppression of erythropoiesis in transplant host, 24:12006
effects on erythropoiesis in rats, effects of 400 to 800 R doses on, 24:11941
effects on erythropoiesis in rats, protective effects of hydrocortisone against whole-body, 22:10810
effects on erythropoiesis in spleen of mice, effects of repeated exposure on, 22:10843
effects on erythropoiesis in spleen of mice, protective effects of biological materials against, 22:10842
effects on erythropoiesis, evaluation of iron-59 methods for study of, 22:49576
effects on erythropoiesis, protective effects of erythropoietin against, 21:45755
effects on erythropoiesis, review of, 25:44896
effects on Escherichia coli and rats, effects of ferrous ions in presence of oxygen on, 25:29556
effects on Escherichia coli and Shigella flexneri, sensitizing effects of acriflavine, indanetrione, and methyl hydrazine on ionizing, 25:11323
effects on Escherichia coli in freezing medium, effects of oxygen and strain on, 25:16384
effects on Escherichia coli, mechanisms for recovery from ionizing, 23:26964
effects on esophageal tissues following therapy for esophageal carcinomas, 25:598
effects on esterification reactions of acetic anhydride with crystalline polyoxymethylene, 25:21024(P)
effects on ethane or propane, method for accumulating energy produced by, 25:8292(P)
effects on ethanol and methanol, hydrogen yields in, 21:28031
effects on ethanol and sodium hydroxide at 77°K, ESR studies on energy levels of trapped electrons in, 23:42393(R) (COO-1807-1)
effects on ethanol in acid solutions, 21:30469
effects on ethanol metabolism in liver of rats, 22:19244
effects on ethanol vapor, formation of ethyl ether by cationic chain reaction from, 24:36333
effects on ethanol, effects of temperature on yields of hydrogen precursors in, 21:38971
effects on ethanol, methanol, 3-methylpentane, and tetrahydro-2-methylfuran glasses, electric conductivity, ESR, and spectrophotometric studies on, 24:31400
effects on ethanol, yields of acetaldehyde from, 23:24268
effects on ethylene polymers, 22:23066
effects on ethylene, effects of crystallization conditions on polymerization, 21:9662
effects on ethylene, x-ray studies on molecular folding in, 21:19689
effects on ethylene, x-ray studies on molecular folding in, 22:8092(T) (AEC-tr-6908, pp 25-32)
effects on EVESR fuel cladding materials, 22:5925 (GEAP-5510)
effects on exchange between tritium and hydrogen in organic compounds, 22:42787
effects on exchange capacity of polystyrenesulfonic acid cation exchangers, mechanism of, 24:25066(T) (AD-700348)
effects on exchangeable hydrogens of lysozyme, 22:30930(R) (COO-690-29)
effects on excretion of 17-ketosteroids in rats, comparison of orchiectomy and, 25:4707
effects on excretion of ascorbic acid and riboflavin by rats, effects of diet on, 25:44947
effects on excretion of β-aminoisobutyric acid and taurine in urine of rats, 22:31264
effects on excretion of catecholamines by man, effects of ACTH on, 25:57938
effects on excretion of deoxycytidine in urine of man and rats, effects of dose on ionizing, 22:51478
effects on excretion of deoxyribosyl compounds in mouse and rat urine as indicator of radiation injury, 25:42622
effects on excretion of deoxyuridine, 2-methyl-β-alanine, and thymidine by rats, effects of 50 to 700 R dose and body weight on whole-body, 24:27533
effects on excretion of MEA in rat urine, whole-body, 25:42671

effects on excretion of taurine in urine of rats, effects of enzymic activity on, 22:28374
effects on excretion patterns of metabolites of thymine and tryptophan in man in relation to DNA and protein synthesis rates, 22:45508(R) (PG-Report-826)
effects on exocarp of cherries in comparison to calcium chloride treatment and storage, 25:24523
effects on explosive polymerization of solid acetaldehyde, 22:27782
effects on extraregional areas of body of man, protective effects of radiogens against, 22:36401
effects on eye lens of animals in relation to dose, 23:8059
effects on eye lens of animals, development of cataracts following, 22:49498
effects on eyes in animals and man, effects of age and dose on, 25:27013
effects on eyes of mammals, effects of dose on, 25:6799
effects on eyes of reactor personnel, 22:8623
effects on eyes, protection against pathological ionizing, 25:8793
effects on Fasciola hepatica, effects of, on rats following infection, 24:4700
effects on fatigability in personnel, methods for determining effects of neurotic tendencies on low dose, 24:23225
effects on fatty acids in ground pork, lytic effects of, on hydrocarbon content, 24:44640
effects on fatty acids in liver of pigeons, protective effects of transplants of bone marrow, spleen, and thymus against, 24:4642
effects on fcc crystals, correlated collision chains in [100] direction, (T), 23:20996
effects on fcc crystals, kinetics of loop and tetrahedra nucleation from vacancy complexes, (T), 25:40778
effects on fcc metals, model for kinetics of stage I/sub E/ recovery of, 22:1308
effects on fearfulness in rats, 23:48211
effects on fearfulness in rats, 23:48212
effects on febrile reaction in rabbits, 22:49511
effects on fecundity of dogs, effects of dose fractionation on ionizing, 22:52011
effects on fecundity of Drosphila, combined effects of population density with, 21:28421
effects on femur of man following therapy, 22:21621
effects on fern spores, ESR study of free-radical role in, 23:22438
effects on fertile eggs of assassin bugs, effects of nutrition on, 25:19099
effects on fertility and survival of annelids, effects of dose on, 24:34607
effects on fertility of medical personnel, ionizing, 24:14510
effects on fertility of rats, protective effects of dietary fungus micelle against, 23:35780
effects on fertility, growth, and life span of mammals, following pre- and post-natal exposure, 24:23341 (CONF-690501-, pp 637-47)
effects on fetal and neonatal mammals in relation to effects on DNA molecules, 24:23108 (CONF-690501-, pp 919-42)
effects on fetal and neonatal mammals, mechanisms of, 23:29742 (UCLA-12-719)
effects on fetuses of animals and man, teratogenic, 24:855
effects on fibers and textiles, abstracts of literature related to, 25:37544 (NP-18893)
effects on fibroblast formation in cultures of mouse spleen following exposure of mice, 25:26905
effects on fibrosarcoma incidence in man following radiotherapy, 25:27044
effects on fish and food, 25:27166
effects on fish and seafood, pasteurizing, 25:24491 (TID-25544)
effects on fish fillets, temperature patterns for shipment by rail and truck following, 24:48776
effects on fish, economic aspects of, 23:18147 (CONF-681006-, pp 3-10)
effects on fission gas release and swelling in tungsten—uranium nitride, uranium carbide, and uranium dioxide fuels, in-pile, 24:10190(R) (BMI-1875)
effects on fitness and productivity of Drosophila populations, 25:49270
effects on flavonoid content of buds of Pisum sativum, immediate and latent, 24:44626
effects on flax for fiber quality and yield, effects of dose and seed exposure on, mutagenic, 23:29443
effects on flexible materials for packaging irradiated foods, 22:11103
effects on flight capacity of cherry fruit fly, 25:29742
effects on flower color in Tradescantia, genetic mechanisms for, 22:17010
effects on flower color of dahlias, mutagenic, 25:42327
effects on flowering plants, review of mutagenic, 24:41815
effects on fluorination of octafluoronaphthalene, yields in, 22:37707 (BNL-50082, pp 27-39)
effects on fluorocarbons, review of research on, 24:5674(R) (COO-1528-40)
effects on fluorocarbons, valence tautomerization in, 23:47490
effects on foaming of mixtures of ethylene polymers, natural or synthetic rubbers, and a foaming agent, 22:47188(P)
effects on food in relation to production, preservation, and distribution, international status of ionizing, 24:17188
effects on food value and wholesomeness of foods, 23:12252(T) (ORNL-IIC-14, pp 67-81)
effects on food, AEC program for research and development in, 23:5065
effects on food, bibliography on, 23:24775 (AEC-C-5-9)
effects on food, carcinogenic and mutagenic, 25:27143
effects on food, carcinogenic and toxic, 22:31301
effects on food, effects of, on thymus of mice and rats following ingestion, 22:45743
effects on food, review of programs of USA Army Quartermaster Corps and USAEC for, 23:29945
effects on food, stability of packaging materials during, 24:34820
effects on foods and insects, review of economic aspects of, 22:47658
effects on foods and packaging materials, evaluation of data on, 23:18177 (CONF-681006-, pp 247-9)
effects on foods, commercial evaluation of, 22:49670
effects on foods, conference on, 23:18146 (CONF-681006)
effects on foods, cost-benefit analysis of, 23:18171 (CONF-681006-, pp 195-200)
effects on foods, economic aspects of commercial scale, 23:26975 (CONF-670649-37)
effects on foods, effects of, on design of food irradiation facility, 22:8678
effects on foods, legal aspects and status of, in Japan, 23:32010
effects on foods, Organization for Economic Cooperation and Development 1968 report on, 23:38914
effects on foods, research programs in Asia, Europe, and North America on, 22:31304
effects on foods, use of gas chromatography for detecting, 21:45860
effects on forest ecosystems, 25:52011 (A/CONF.49/P-685)
effects on forest ecosystems, review of, 22:47499
effects on formation and depletion of blood cells, review of, 22:49585
effects on formation and maturation of granulocytes, effects of dose on, 22:49575
effects on formation of antibodies in animals, review of ionizing, 21:41317
effects on formation of color centers in alkaline solutions of carbonates, formates, and methanol, 22:12357
effects on formation of color centers in transparent materials, 23:24232
effects on formation of DNA-RNA complexes in liver of rats, 24:23122
effects on formation of fatty acids in animals and man, carbon-14 tracer study of, 25:16316 (ORO-678, pp 49-50)
effects on formation of free radicals in living animals, ionizing, 23:33621 (AD-680624)
effects on formation of free radicals in nucleic acids and nucleoproteins, 21:43332
effects on formation of free radicals in single crystals of thymine monohydrate, 24:44436
effects on formation of hemohistoblasts in animal bone marrow, 21:22284
effects on formation of hyperproducing virions, 25:27111
effects on formation of organic peroxides in biological materials, ionizing, 22:51480
effects on formation of spleen colonies in mice following transplantation of myeloid stem cells, 23:50255
effects on formation of toxins in foods, hazards from, 25:47078
effects on free fatty acid and neutral fat excretion from intestines of dogs, 22:15020
effects on free fatty acids, phospholipids, sterols, sterol esters, and triglycerides in canned chicken pet food products, 25:26647
effects on free radical damage of nucleic acids, effects of 5-bromouracil and n-ethylmaleimide and sulfhydryl compounds on, 24:50709 (UCLA-12-789)
effects on free radical formation in human lungs in relation to development of pneumonitis, ionizing, 23:33893
effects on free radical formation in lyophilized tissues of rats, effects of oxygen and water content on, 22:28369
effects on free radical formation in nucleic acids, 21:43335
effects on free radical formation in pathways of oxidative metabolism, 22:14906 (BNL-50057, pp 123-37)
effects on free radical reactions in cell fractions of liver in rats, graft copolymerization study of, 22:14956
effects on free radicals in DNA and RNA, 24:9765
effects on free-ionic polymerization of bulk styrene, electric conductivity measurements on, 25:10610 (JAERI-5026, pp 169-71)
effects on frequency of chromosome X loss in Drosophila, use as dosimeter, 25:57999 (NP-18944)
effects on frequency of residual nuclear fragments in human erythrocytes, chronic ionizing, 24:904
effects on frequency of skin anomalies associated with mental retardation in man following fetal exposure, 23:48253
effects on fresh beef and poultry meats, bacteriological and organoleptic evaluation of, 23:18166 (CONF-681006-, pp 161-6)
effects on fresh shrimp, effects of shipping on, 23:18148 (CONF-681006-, pp 11-18)
effects on frogs, effects of temperature on, 25:16354
effects on frozen aqueous and alcoholic systems, yields of trapped electrons from, 23:47498
effects on frozen aqueous solutions, spectral studies on free radicals produced by, review on, 23:49829
effects on frozen aqueous sugar solutions, EPR study of, 23:47954 (UCLA-12-724, pp 71-87)
effects on fruit flies, sterilizing, 22:31305
effects on fruit, factors affecting commercial application of, 22:8681
effects on fruits and vegetables, bibliography on, 23:43925 (ORNL-IIC-11(Suppl.2))
effects on fruits, effects of dose, maturity, and storage temperature on, 25:35273
effects on fruits, pathological effects of, on dogs following ingestion, 22:47648 (NYO-3422-1(Vol.3))
effects on fuel bundles in EVESR tests, 21:7879(R) (GEAP-5269)
effects on fuel cladding and reactor structural materials, review on, 21:1922
effects on fuel element cladding, 21:19403
effects on fuel elements of N.S. Savannah Core I, in-pile, 21:12213 (GEAP-3342)
effects on fuel migration into coatings of pyrolytic-carbon-coated uranium carbide and dioxide, effects of heat treatment on, 21:36946
effects on fuels of plutonium dioxide—uranium dioxide, reactor, 23:36276
effects on function and morphology of human bone marrow following therapy, hematological, 24:6134
effects on function and structure of chromosomes, 24:25459
effects on function of adrenal cortex, pituitary gland and thyroid gland in radiological personnel, chronic ionizing, 23:43901
effects on function of adrenal glands in rats, whole-body supralethal, 22:4673
effects on function of gastrointestinal tract in animals and man, ionizing, 24:46673 (TID-25492)
effects on function of human heart following therapy, ECG studies of, 24:9955
effects on function of human kidney transplants, combined effects of drugs on, 24:29719
effects on function of human ovaries following therapy of Hodgkin's disease, 24:32262
effects on function of lymph node barrier in man, use of chromium-51-labeled erythrocytes for study of, 25:559
effects on function of neuromuscular synapse in isolated frog tissues, kinetics of 18 to 80 krad, 24:27692
effects on function of olfactory analyzer and upper respiratory tract in nuclear personnel, 24:46680
effects on function of rabbit reticuloendothelial system, combined effects of hemorrhage on, 23:10078
effects on function of vestibulocochlear analysor in man following cancer therapy, 25:8792
effects on functional and structural characteristics of radiosensitive and radioresistant yeast strains, 25:35247
effects on fungal decay and peel rot on grapefruit and oranges, effects of heat treatment and waxing on, 25:41833(R) (IA-1218)
effects on future of man, conference on, 24:32245
effects on gametes of animals, uv-fluorescence of bone marrow cells of progeny following, 23:26901
effects on gas evolution from polymers, 23:13795
effects on gaseous ammonia, effects of dose on hydrazine yields from, 24:2208(T) (ANL-Trans-784)
effects on gaseous ammonia, effects of pressure and temperature on hydrazine yields from, 24:2209(T) (ANL-Trans-785)
effects on gaseous ammonia—ethylene mixtures, hydrazine yields from, 24:2210(T) (ANL-Trans-786)
effects on gaseous and liquid cyclohexane, effects of nitric oxide on secondary reactions in, 22:35835
effects on gaseous and liquid hydrocarbons, effects of dose and LET effects in, 22:42803
effects on gaseous benzene—nitrous oxide mixtures, yields of nitrogen and phenol in, 22:96(R) (RRL-2310-214)
effects on gaseous chloroethane, ion—molecule reactions in, 23:47550
effects on gaseous cyclohexane and methylcyclopentane, reactivity and structure of butene ions formed by, 24:20841
effects on gaseous cyclohexane, effects of deuterium and nitric oxide on yields in, 22:35836
effects on gaseous cyclopropane, 22:47198
effects on gaseous ethyl methyl ether, effects of deuterium and scavengers on yields from, 24:11578 (JAERI-5022, pp 180-4)
effects on gaseous hydrocarbons, mechanisms of, 22:21135
effects on gases, effects of electric field on rate of deuterium—hydrogen exchange during, 23:28900
effects on gases, microwave method for measuring electron decay in, 22:30591(R) (RRL-2310-231)
effects on gases, review on kinetics of ionic reactions in, 24:27130
effects on gastrointestinal tract and hematopoietic system of man, 22:15064
effects on gastrointestinal tract in man druing therapy, use of Bacillus subtilis for treatment of, 24:23243
effects on gastrointestinal tract of animals and man, review of treatment of, 24:34715 (AD-696445)
effects on gastrointestinal tract of animals, effects of species on recovery mechanisms following whole-body, 24:12294
effects on gastrointestinal tract of rats, effects of dose on, 25:29646
effects on gastrointestinal tract, conferences on pathological, 22:49564
effects on gastrointestinal tract, review of models explaining syndrome of, 24:12295
effects on gene function, genetic recombination, and replication of bacteriophage DNA, 22:40615(R) (EUR-3889)
effects on genes of Drosophila, probability and fate of mutagenic, 25:24101
effects on genetic and metabolic processes in cells, pathological, 25:49301
effects on genetic components and processes in organisms, 22:51875 (TID-4060(1st Ed.))
effects on genetic control of yellow fever mosquito populations by induction of chromosome translocations, 25:29753
effects on genetic factors in animals, review of ionizing, 22:51495
effects on genetic information in cells, bibliography on, 22:19369
effects on genetic processes, 24:34257
effects on genetic transcription in Escherichia coli, mechanisms for, 21:24379
effects on genetics and health of man, 21:28453
effects on genetics of animal populations, 21:20120 (RM-5096-TAB)
effects on genetics of animals and plants, abstracts of papers presented at Genetics Society meeting on, 24:48508
effects on genetics of barley, combined effects of alkylating agents with, 21:20427(T) (JPRS-39158)

effects on genetics of biological systems, effects of rate on, 21:32708
effects on genetics of humans. 22:40626
effects on genetics of laboratory animals in relation to genetic risk estimates in man, review of, 25:46790
effects on genetics of mammals, ionizing, 22:21468
effects on genetics of man, review of, 22:51494
effects on genetics of medical personnel in China, chronic, 23:7978
effects on genetics of plants, 21:20425 (STI/DOC-10/66)
effects on genetics of plants, use in breeding programs, 21:24673
effects on genetics of vertebrates, external and internal mutagenic, 24:39549 (EUR-4405)
effects on germ cells of mice, rats, and swine in relation to population genetics, mutagenic, 23:29457
effects on germ content of trout, effects of bacteria type and storage temperature on, 25:24527
effects on germanium and silicon, influence of charge state on behavior of defects from, review, 22:36992
effects on germanium at low temperatures, review, 25:56303
effects on germination and characteristics of cell nuclei of species of Abies, Tsuga, and Picea, 25:606
effects on germination of barley seeds, effects of oxygen and water on, 25:42296
effects on germination of corn seed, effects of urea washing on recovery from, 24:8019
effects on germination rate of cereal seeds, mathematical analysis of, for predicting sensitivity of mature plant, 25:11314
effects on germination rate of seeds, effects of deuterization on, 22:40954
effects on gladiolus flowers, effects of seed exposure on, 21:43538
effects on glass and liquid systems, yields in, 22:40125
effects on glasses, quartz, and silica, review, 22:26095
effects on glial and nerve cells in cerebellum of guinea pigs, protective effects of bone marrow transplants against, 25:21853
effects on glomerulus enlargement in hamster kidneys, combined effects of chronic hypoxia and ozone injections on, 25:42636
effects on glucocorticoid metabolism in man, effects of dose on occupational, 25:29708
effects on glucose reduction by tuber tissue extracts from Solanum tuberosum, effects of dose on high-energy, 24:7738
effects on glutathione reducing enzymes in erythrocytes of man, therapeutic, 21:45751
effects on glycine transport systems in cultured Ehrlich ascites tumor cells, ionizing, 24:50743
effects on glycine, ESR of free radicals from, 22:2093 (CEA-R-3250)
effects on glycogen synthesis in liver of rabbits and rats, combined effects of starvation on, 22:40558
effects on glycogen synthesis in liver of rats, effects of combined treatment with cortisone on, 21:34612
effects on glycogen synthesis in livers of rats, role of adrenal hormones in, 23:24518
effects on glycolysis in isolated calf thymus nuclei, ionizing, 24:11940
effects on goats, protective effects of blood transfusions from irradiated goats against, 22:40750
effects on gonads and thyroid in patients up to 21 years following therapy during childhood for benign inflammatory diseases, 24:48736
effects on gonads of mice, ionizing, 22:17036
effects on gonads of onion flies, pathological, 25:29619
effects on gonia of silkworms, cellular mechanisms for dose-rate effect on mutagenic, 23:45706
effects on graft polymerization, 24:41367
effects on graft polymerization in textile production, review on problems in, 21:19688
effects on graft polymerization in textile production, review on problems in, 22:8091(T) (AEC-tr-6908, pp 18-24)
effects on graft polymerization of 4-vinylpyridine on polytetrafluoroethylene, effects of poly(acrylic acid) on, 24:13955
effects on graft polymerization of acrylic acid with styrene on polypropene fibers, 24:29320
effects on graft polymerization of acrylic acid with polyethylene, 24:41368
effects on graft polymerization of acrylonitrile with poly(chloroethylene), viscoelastic properties of product from, 24:11569 (JAERI-5022, pp 98-102)
effects on graft polymerization of acrylonitrile, methyl methacrylate, and styrene polymers with surfaces of magnesium oxide, 23:26311
effects on graft polymerization of cellulose acetates with methacrylic acid, effects of dose and solvent on properties of product of, 23:24248
effects on graft polymerization of cellulose with monomers, review on, 24:7442 (AAEC/TM-503)
effects on graft polymerization of cellulose with 2-vinylpyridine, effects of water vapor on, 22:21115
effects on graft polymerization of compound onto films, 23:2316(P)
effects on graft polymerization of dimethylketene with aldehydes, ethers, ethylenimine, esters, or ketones, 21:1400(P)
effects on graft polymerization of hydrophilic monomers onto polyethylene terephthalate fibers, 24:18999
effects on graft polymerization of methyl methacrylate with PVA, viscoelastic properties of product from, 24:11566 (JAERI-5022, pp 84-8)
effects on graft polymerization of nylon with styrene, properties of products from, 22:33472(P)
effects on graft polymerization of organic compounds, problems in studies on, 24:31405
effects on graft polymerization of polyesters with vinyl or vinylidene monomers, 21:17693(P)
effects on graft polymerization of polyethylene with styrene, effects of dose and temperature on, 21:40930
effects on graft polymerization of polymers, review on, 21:32191 (NP-16834)
effects on graft polymerization of styrene on polyethylene monocrystalline aggregate films, 22:21096
effects on graft polymerization of styrene with paper, 24:46242 (AAEC/TM-540)
effects on graft polymerization of vinyl chloride polymers, isobutylene polymers, and aromatic monomers, 22:47194(P)
effects on graft polymerization, review of methods utilizing, 21:15923
effects on graft rejection, review of, 23:41270
effects on graft-polymerization of acrylonitrile on polypropene fibers, 22:35843(P)
effects on grafting of acrylic acid ester monomers to wool and cotton fibers for improved properties, 24:4319(P)
effects on grafting of acrylonitrile on poly(vinyl chloride) fibers, 24:19005
effects on grafting of acrylonitrile onto poly(vinyl chloride) fibers, 23:13765(P)
effects on grafting of acrylonitrile to cellulose, 22:10309
effects on grafting of butadiene, styrene, and/or acrylonitrile on polyolefins, 24:11616(P)
effects on grafting of ethylenically unsaturated organic acids or their salts to polyamides, polyurethans, polyureas, or polysulfonamides, 24:16603(P)
effects on grafting of heparin on silicone, 23:40773(P)
effects on grafting of hydrophilic monomers on polyester fibers and textiles, 24:16554
effects on grafting of organic polymers on inorganic substances, review on, 22:45095(R) (RLO-2043-2)
effects on grafting of polyoxymethylene copolymers with vinyl compounds, 22:51037(P)
effects on grafting of polystyrene to wool, location of grafted polymer from, 22:35859
effects on grafting of polystyrene, production of pores-producing resin from, 23:28874(P)
effects on grafting of polyvinyl chloride and acrylonitrile, 22:47196(P)
effects on grafting of rubber, cellulose, and acrylonitrile and amide polymers, 22:4213
effects on grafting of styrene and substituted styrene on cellulose, effects of temperature on, 24:41329
effects on grafting of styrene to polyethylene, 25:35591
effects on grafting of vinyl chloride from gas phase to polyethylene and polypropene, properties of products from, 25:37415
effects on grafting of vinyl monomers on cellulose and its derivatives, free radical formation in, 21:24042
effects on grafting of vinyl monomers on rubber, 23:9452(P)
effects on grafting of vinyl monomers on rubber or cloth, 23:13768(P)
effects on grafting of vinyl monomers to cellulose, 22:14545(P)
effects on grafting of vinyl or vinylidene groups onto ester- or phenyl-activated halogen-containing polymers, 22:14554(P)
effects on grain yield of wheat, effects of dose and dose fractionation on mutagenic, 24:50846
effects on granulocyte count in animals and man, 25:44895
effects on graphite in Dragon Reactor, 21:14913
effects on graphite moderator structures, 21:6896
effects on graphite, configuration of interstitial atoms in defects induced in, 21:7346
effects on graphite, review of, 21:1967
effects on ground state splitting of trivalent curium and gadolinium ions in hafnium, thorium, and zirconium silicates, 23:44495 (TID-25126)
effects on growth and sprouting of Phaseolus seeds, effects of altitude on combined effects of dyes and, 23:14285
effects on growth and toxin production by Clostridium botulinum type E spores in sole fillets, ionizing, 23:24779 (TID-24881)
effects on growth kinetics of lymphosarcomas, effects of dose on ionizing, 22:43460
effects on growth of animals, effects of age and dose on, 22:19428
effects on growth of articular cartilage in temporomandibular joint of rabbits, 22:4670
effects on growth of bacteria in chicken, effects of low dose and temperature on, 24:12338(R) (NYO-3733-6)
effects on growth of barley seedlings following seed exposure, effects of water content of seed on, 23:29904
effects on growth of C3H tumor cells of mice, effects of oxygen on, 25:11094 (BNL-50203, pp 215-33)
effects on growth of Chlorella under space flight conditions, mathematical model for ionizing, 22:52058
effects on growth of Clostridium on processed haddock meat, effects of dose and temperature on, 23:16445 (COO-1183-27)
effects on growth of cotton, restoring effects of postradiation heating of seeds on, 23:29898
effects on growth of duckweed, effects of dose, light, and temperature on, 25:35248
effects on growth of Ehrlich ascites tumor cells in vitro and in vivo, ionizing, 22:38495
effects on growth of parental bone marrow in F_1 hybrid mice, 25:16337
effects on growth of Salmonella typhimurium in sucrose, 23:20445
effects on growth of Sinapis alba, effects of culture media on, 25:604
effects on growth of transplanted sarcomas in rats, effects of anoxia on, 24:34708
effects on growth of transplanted tumor cells in mic, effects of genetics on, 21:22674
effects on growth of tumors, model for time dependent lethal, 25:29680
effects on growth rate of bones, computer calculations of effects of dose on, 25:24373
effects on growth, meiosis, and pollen in sweet cherry plants, mutagenic, 25:35127
effects on guinea pig skin and rabbit ears, protective effects of tris(hydroxyethyl)rutin against, 25:21746
effects on gums and mandibles following oral therapy, prophylaxis and treatment of, 24:41999
effects on gustation in man following use for therapy of head and neck carcinomas, 25:16362
effects on gustatory behavior of rats, 24:2775 (NYO-4039-1, pp 134-49)
effects on γ-alumina, exoelectron emission studies, 23:23281
effects on haddock fillets, effects of preirradiation quality on shelf life following, 23:29934
effects on haddock meat, effects of, on growth and toxin production by Clostridium botulinum E, 23:18153 (CONF-681006-, pp 57-61)
effects on hafnium control rods in Shippingport Core 1, 22:32812
effects on hair follicles of mice, protective effects of noradrenaline against, 23:2870
effects on haploid parthenogenesis in pollen of forest trees, mutagenic, 24:41847
effects on hatching rate of rainbow trout, 24:34607
effects on healing of skin wounds and regeneration of nerves in dogs, 23:29792
effects on health of animals and man, 23:10045(R) (NP-17514)
effects on hearing in mice, effects of dose on superlethal whole-body, 24:25561 (FOA-1-1481)
effects on heart and its neural control in animals and man, chronic ionizing, 23:31969 (A-AC.82/G/L-1264, pp 31-48)
effects on heart following therapy for neoplasms of thoracic organs, 25:42704
effects on heart in rabbits, localization of, 25:26961
effects on heart of rabbits, effects of, on structure of coronary vessels, 24:48695
effects on heart of rabbits, histochemical and histological, 25:21897
effects on heart rhythms of rabbits, role of nervous system in, 24:34663
effects on heart, local and whole-body morphological ionizing, 23:38812
effects on heat flow from materials, 21:26060(P)
effects on heating of plane bodies, tables for transient temperatures from, 25:56267
effects on heating of reactor core components, (T), 25:15341 (SZS-20/70)
effects on heavy water, use of sulfur hexafluoride in determining yield of hydrated electron from, 23:33214
effects on Heinz inclusion bodies in erythrocytes, for use in prognosis, 23:38465
effects on HeLa cells, effects of dose on, 23:24706
effects on HeLa cells, mechanism of effects of N-ethylmaleimide on, 24:48590
effects on HeLa cells, method of estimating ability for repair of sublethal, 24:41953
effects on HeLa cells, reaction mechanisms for ionizing, 25:4709
effects on helminth larvae for immunization of host animals, conference on, 24:50776 (STI/PUB-242)
effects on hematogenic tissue in bone marrow of mice, mechanisms of inhibitory, 25:29676
effects on hematological parameters following long-term, low-dose exposure, 25:44807
effects on hematology in guinea pigs, chronic low dose whole-body ionizing, 21:24580
effects on hematology of animals following continuous exposure, effects of dose on, 25:44899
effects on hematology of rabbits, combined effects of burns on, 24:2780
effects on hematopoiesis in active bone marrow, effects of dose fractionation on, 25:55326
effects on hematopoiesis in bone marrow of mice and rats, 450 to 600 R, 24:8001
effects on hematopoiesis in dogs, effects of bone marrow transplants on, 23:14128
effects on hematopoiesis in dogs, protective effects of bone marrow transplants against ionizing, 25:4533
effects on hematopoiesis in guinea pigs, combined effects of splenectomy and, 25:44923
effects on hematopoiesis in hypothyroid patients, 21:34579
effects on hematopoiesis in man following therapy of pelvic malignancies, 24:9960
effects on hematopoiesis in mice, 23:17918
effects on hematopoiesis in mice and rats, effects of shielding bone marrow on, 23:12023
effects on hematopoiesis in mice, effects of bone marrow and fetal liver transplants on recovery from, 25:16346
effects on hematopoiesis in mice, effects of bone marrow transplants and dose on, 25:26904
effects on hematopoiesis in mice, effects of bone marrow transplants on, 23:2739 (CALT-642-X-9)
effects on hematopoiesis in mice, effects of dose fractionation on ionizing, 22:52011
effects on hematopoiesis in mice, effects of fresh and cadaveric mixed-donor bone marrow on, 23:29415
effects on hematopoiesis in mice, effects of hydroxyurea and partial shielding on in vitro and in vivo, 25:16347
effects on hematopoiesis in mice, protective effects of bone marrow transplants against, 21:39453
effects on hematopoiesis in mice, protective effects of corticosteroids against whole-body ionizing, 23:35771
effects on hematopoiesis in personnel handling fluorescent materials, latent low-dose ionizing, 24:9837
effects on hematopoiesis in rats, effects of dose rate on, 25:8608
effects on hematopoiesis in spleen of mice following transplantation of bone marrow, 25:58117
effects on hematopoiesis, effects of dose on, 25:44893
effects on hematopoietic and immunocompetent cells in spleen of mice, effects of dose on, 25:29677
effects on hematopoietic cells in mice, assessment by colony formation in spleen, 23:31638 (AD-683664)

effects on hematopoietic cells in spleen of mice, 22:10841
effects on hematopoietic cells, review of, 25:46953
effects on hematopoietic spleen colony formation in mice, effects of erythropoietic stimuli on, 22:43473
effects on hematopoietic stem cell population in animals, kinetics of recovery from, 24:12242 (STI/PUB-186)
effects on hematopoietic stem cells, review of methods for determining, 25:44882
effects on hematopoietic system in mammals, development of cell-survival model for determination of acute, 22:14906 (BNL-50057, pp 123-37)
effects on hematopoietic system in mice, analysis of parameters determining acute lethal, 22:43203 (BNL-12594)
effects on hematopoietic system of animals, kinetics of implanted stem cell activity following, 24:12243
effects on hematopoietic system of atomic bomb survivors in Japan, 22:4635
effects on hematopoietic system of mammals, use of model relating dose-survival curve to stem cell population for analysis of lethal, 24:12288
effects on hematopoietic system of man, acute and chronic, 23:50890 (PHS-999-RH-33, pp 54-8)
effects on hematopoietic system of mice, effects of polycythemia on regeneration of erythroid populations following sublethal whole-body exposure, 25:49292
effects on hematopoietic system of mice, protective effects of cystamine against, 21:36679
effects on hematopoietic system, intestines, and skin of animals, effects of split dose on recovery from, 22:25990
effects on hematopoietic tissue in pancreas of mice, combined effects of endoxan on, 22:19413
effects on hematopoietic tissue of rabbits, effects of dose on in vitro, 24:36803
effects on hematopoietic tissues of mammals, review of, 22:49490 (STI/PUB-134)
effects on hematopoietic tissues, differentiation of lymphoid stem cells following, 24:12255
effects on heme proteins, 23:18143 (CONF-670945-, pp 154-98)
effects on hemodynamics of human brain, review of ionizing, 23:31970 (A-AC.82/G/L-1264, pp 49-62)
effects on hemoglobin molecules in rats during acute radiation sickness, 24:48427
effects on hemolysin formation by spleen of rats, effects of cell repopulation on, 24:34157
effects on hemopoiesis and sinusoidal structure of bone marrow of animals after local and whole-body exposure, 25:16342
effects on hemopoiesis in rats, effects of dose on recovery from, 22:15057
effects on hemopoiesis in spleen of mice, protective effects of bone marrow transplants and hexestrol against, 23:10019
effects on hemopoietic regeneration in dogs, whole-body, 21:28641
effects on hemopoietic stem cells and intestines of mice, effects of age on, 22:45716
effects on hemorrhage in rats, effects of hemostatic compounds on whole-body, 25:24415
effects on hepatic blood flow, use of iodine-131-labeled RISA for determining microwave, 25:10916
effects on heptane and nonane to yield carbonyl compounds and alcohols, effects of temperature and dose rate on, 23:38017
effects on heterosis in polygenic systems of oats, genetic, 21:39380(R) (ORO-3028-5)
effects on hexamethyl- and octamethylnaphthalene cations, ESR spectral studies on free radicals produced by, 22:18806(R) (COO-1385-21)
effects on hexane, effects of deuterated ammonia, ethylene and propene on ion recombination processes in, 22:30591(R) (RRL-2310-231)
effects on hexane, effects of deuterium, nitrous oxide, and temperature on, 23:47551
effects on high-molecular-weight tertiary alkylamines, 24:9410
effects on high-purity water in reactor loops, 21:21783
effects on high-strength concretes for use in reactor pressure vessels, 23:10319
effects on higher plants, characteristics of mutations induced by, 21:6470 (RLO-353-7)
effects on histamine content of blood, lungs, skin, and small intestine in rats, combined effects of skin wounds on whole-body, 25:13368
effects on histamine content of rat tissues, comparison of, to radiomimetics and vibration effects, 22:25964
effects on histamine in blood, intestines, kidneys, and liver of rats following ingestion of mixed radioisotopes, mechanism of, 25:10967
effects on histochemistry of follicle enzymes in guinea pigs, 23:29356
effects on histologic picture of lymphoid tissue and immune response to sheep erythrocytes of thymectomized animals, 21:20236 (UCLA-12-612, pp 37-68)
effects on histological changes in chicken spleen, 25:24392
effects on histology and physiology of nervous system, effects of dose on, 25:58143
effects on histology of brain of cats and man, ionizing, 25:19109
effects on histology of human lymph nodes and vessels, following therapy, ionizing, 24:17116
effects on histology of neoplastic and normal cells in human vagina, ionizing, 23:45926
effects on Hodgkin's disease and mammary carcinoma, development of pericarditis following therapeutic, 22:51973
effects on homogenates of hepatomas and sarcomas, effects of, on immune reactions in rats following implantation, 23:804
effects on homogeneity in metal, equipment and method for detection of, 23:26414(P)
effects on hormone production by mother, placenta, and embryo or fetus following exposure during pregnancy, 25:10982
effects on hormone production by thyroid gland, 25:35208
effects on HTGR graphite, 23:40317(R) (GA-8662)
effects on human adult and developing nervous system, 25:42691
effects on human and animal bones and bone marrow, external and internal exposure, 25:42472
effects on human and mammalian oocytes, factors affecting sensitivity to lethal and mutagenic, 25:42697
effects on human astronauts following space flight, 22:33915
effects on human behavior following accidental exposure, 23:937
effects on human biological responses and genetics, 25:32388
effects on human biology, review of development of improved treatment measures following study of, review of, 24:44609 (AD-685840)
effects on human bladder following therapy in pelvic region, 23:50915
effects on human blood and lymph for use in therapy, review of extracorporeal, 23:29685
effects on human blood cells, ionizing, 23:20417
effects on human blood constituents, quantitative ionizing, 22:31248
effects on human blood for immunosuppressive therapy in kidney transplantation, extracorporeal, 25:24066
effects on human blood for therapy of lymphatic leukemia, extra corporeal, 23:38718
effects on human blood pressure, elevation of, using novadral and oxazole derivatives, 24:36835
effects on human blood vessels and heart following therapy for thoracic diseases, 25:58147
effects on human blood volume following therapy of mammary carcinoma, ionizing, 22:19402 (NP-16717)
effects on human bone following therapy, tumorigenic, 24:12316
effects on human bone marrow chromosomes, effects of dose on numbers of aberrant, 24:34285
effects on human bone, effectiveness of combined local anesthetics and vasodilator drugs for treatment of necrotic, 23:29594
effects on human bones and teeth following oral therapy, review of, 24:21221
effects on human bones following post-operative therapy for breast malignancies, 25:19140
effects on human bones following therapy of carcinomas, treatment of necrotic, 25:55270
effects on human bones, effects of dose on carcinogenic, 25:24441
effects on human brain, development of complications following therapeutic, 22:47585
effects on human breast and genital organs following therapy of neoplasms, carcinogenic, 25:27038
effects on human cells, aberrant, 25:42691
effects on human cells, low dose ionizing, 25:4500
effects on human cells, use of stopping power theory for predicting RBE of, 22:8637
effects on human central nervous system during prenatal and postnatal development, effects of dose on pathological, 25:42710
effects on human central nervous system during space flight, effects of acceleration, dose, and vibration on ionizing, 25:11298
effects on human cervical carcinomas, incidence of ureteral strictures following therapeutic, 25:27052
effects on human cervical carcinomas, recurrence following therapeutic, 25:26887
effects on human children following prenatal exposure of maternal gonads, leukemogenic, 23:38847
effects on human children following prenatal exposure of maternal gonads, 24:34743
effects on human chromosomes as indicator of radiation dose or injury, aberrant, 25:42405
effects on human chromosomes during occupational exposure, aberrant, 17 to 682 mRad, 24:7871
effects on human chromosomes following therapy of ovarian or uterine cancer, aberrant, 24:25445
effects on human chromosomes in comparison to chemicals, and DNA and RNA viruses, review of aberrant ionizing, 24:25443
effects on human chromosomes, aberrant, 23:47970
effects on human chromosomes, aberrant, 23:50416 (PHS-999-RH-33, pp 23-32)
effects on human chromosomes, bibliography on, 25:55178
effects on human chromosomes, effects of age and Down's disease on mutagenic, 22:45495
effects on human chromosomes, following medical exposure, aberrant, 23:14149
effects on human chromosomes, limitations of dosimetric uses of aberrant external, 25:42707
effects on human chromosomes, review of aberrant, 22:51514
effects on human chromosomes, review of aberrant, 24:31909
effects on human clavicle following therapy of breast cancer, 24:51089
effects on human colon and rectum following therapy, 24:32247
effects on human erythrocytes following extracorporeal exposure of blood, 25:21795
effects on human eyes following use in therapy, 23:5036
effects on human eyes, latent pathological, 25:42546
effects on human eyes, review of factors affecting cataractogenic, 24:46679
effects on human face following use in therapy of retinoblastoma, 23:41483
effects on human fascial grafts, fate of cells after transplantation following, 23:48186
effects on human fetal and infant development, review on drug, industrial poison, and, 25:39939
effects on human fetus following accidental contamination or therapy of mother, review of, 25:27040
effects on human fetus following maternal irradiation, review of, 24:901
effects on human fetuses following exposure of mother during pregnancy, 23:29885
effects on human gastrointestinal tract and interstitial tissues during therapy, high-energy ionizing, 25:8739
effects on human genetics, problems in protection against, 25:42325
effects on human genetics, review of, 23:41289
effects on human genetics, review of ionizing, 21:34634
effects on human hair after ten to twenty years following therapy for scalp diseases during childhood, 24:48735
effects on human hands, surgical repair of lesions induced by ionizing, 23:50646
effects on human head and neck tumors, symptomatology in therapeutic, 25:46936
effects on human heart following mediastinal therapy in childhood, 25:6807
effects on human heart following therapeutic use for neoplasms, 23:35930
effects on human heart following therapy for tumors of the thorax region, methods for evaluating, 24:44610
effects on human heart following therapy of mediastinum, fibrotic ionizing, 23:20293
effects on human heart following therapy, use of changes in serum enzyme activity levels to determine pathological, 24:16994
effects on human hypothalamus following therapeutic, necrotic, 24:34737
effects on human intestine following therapy for cancer, 25:600
effects on human intestine following therapy for uterine carcinoma, 25:13508
effects on human intestines following therapy, surgical repair of, 23:29829
effects on human jaw and teeth following therapy of the mouth area, measures for protection against, 24:32127
effects on human keloids, 23:10000
effects on human kidneys following therapy of ovarian carcinomas, protective effects of epinephrine against, 23:874
effects on human kidneys following therapy, pathological, 23:38877
effects on human kidneys following use for leukemia therapy, review of pathological, 25:601
effects on human kidneys, review of damaging, 25:21919
effects on human liver following therapy for seminoma, pathological, 24:34736
effects on human liver, during therapy effects of dose on pathological, 23:6517
effects on human lung carcinomas, performance of presurgical, 22:51680
effects on human lungs following therapy in apical region, use of iodine-131-labeled macroaggregated albumin for diagnosis of, 24:46636
effects on human lungs following use for therapy of neoplasms, neoplastic, 25:6753
effects on human lungs, following therapy, pathological ionizing, 23:33893
effects on human lymphocytes, determination of small dose and threshold dose, 25:21596
effects on human lymphocytes, kinetics of unscheduled DNA synthesis following ionizing, 24:7737
effects on human male gonads, relation of, to teratogenic effects on offspring, 24:23388
effects on human malignant brain tumor cells, combined effects of bromouridine on therapeutic, 22:31186
effects on human mammary carcinomas, electron microscopy studies on, 25:47024
effects on human mandible in relation to tooth extraction, latent osteonecrotic, 23:29877
effects on human muscles, development of tests for occupational, 23:29816 (A-AC.82/G/L-1264(Add.1), pp 15-29)
effects on human nasopharynx, cellularization and granulocyte alkaline phosphatase content following, 25:44955
effects on human nervous system following therapy of malignant tumors of larynx and pharynx, pathological, 24:36845
effects on human nervous system, clinical and physiological evaluation of ionizing, 23:31967 (A-AC.82/G/L-1264, pp 3-10)
effects on human nervous system, effects of magnetic fields on ionizing, 24:41995 (N-70-14263)
effects on human nervous system, methods for evaluation of low-dose asthenic, 23:29815 (A-AC.82/G/L-1264(Add.1), pp 3-14)
effects on human nervous system, methods for study of asthenia from occupational ionizing, 23:29817 (A-AC.82/G/L-1264(Add.1), pp 30-43)
effects on human nervous system, review of, 23:29818 (A-AC.82/G/L-1264(Add.1), pp 44-78)
effects on human neurovascular system, methods for studying dystonic, 25:42676
effects on human oral cavity following therapy for neoplasms, 25:32593
effects on human oral cavity, development of face injuries following, 24:6139
effects on human organs and tissues, assessment of, 25:11090
effects on human organs and tissues, legislation for protection against ionizing, 22:40673
effects on human organs following therapeutic exposure of abdominal cavity, effects of dose on, 24:2815
effects on human organs, tissues, and tumors, effects of low temperature on therapeutic, 23:14281
effects on human ovaries following therapy, carcinogenic, 24:50999
effects on human pericardium following therapy of mammary carcinomas, pathological, 25:16364
effects on human population exposed to atomic bombing of Hiroshima and Nagasaki, genetic and delayed pathological, 24:7975

effects on human population in Bikini Atoll during 1954, medical survey of fallout, 23:933(R) (NIRS-6)
effects on human population, expanding role of protective programs against genetic, 25:2571
effects on human population, reevaluation of data on relation between low dose exposure and mortality from leukemogenic, 25:16373
effects on human populations exposed to atomic bombing of Hiroshima and Nagasaki, report of ABCC on pathological, 22:51670(R) (ABCC-66-67)
effects on human populations exposed to atomic bombing of Hiroshima and Nagasaki, supplemental studies for ABCC on lethal and pathological, 24:44581
effects on human populations exposed to atomic bombing of Hiroshima and Nagasaki, report of research on, 23:850 (ABCC-66-67(Suppl.))
effects on human populations in comparison with chemicals, evaluation of mutagenic, 25:18965
effects on human populations surviving atomic bombing of Hiroshima, latent, 22:47548
effects on human populations, genetic, 22:51499
effects on human populations, in relation to natural selection, mutagenic, 25:11025
effects on human populations, method based on sex ratio for calculation of rate of, 24:34282
effects on human populations, statistical methods for determining incidence of mutagenic, 24:44463
effects on human pulmonary function following therapy for bronchial carcinomas in comparison with surgery, 25:35243
effects on human rectum following therapy for cervical carcinomas, methods for treatment of, 25:46905
effects on human rectum following therapy of cervical carcinomas, treatment of, 23:29593
effects on human salivary glands following therapy of head and neck tumors, high-dose exposure, 25:42699
effects on human sarcomas, effects of tourniquet-induced hypoxia of normal tissues on therapeutic, 22:38384
effects on human skeleton following therapeutic exposure during childhood, 25:52232
effects on human skin during hair growth, 21:3422
effects on human skin during therapy of skin neoplasms, spontaneous healing of injuries induced by, 25:37894
effects on human skin following therapy for carcinomas, protective effects of tanderil against, 25:13476
effects on human skin following therapy for malignant tumors, methods for surgical repair of, 24:41913
effects on human skin following therapy of basal cell carcinomas, plastic surgery for treatment of, 22:28557
effects on human skin following therapy of breast cancer, pathological, 24:14620
effects on human skin following therapy, evaluation of grid for protection against, 22:45571
effects on human skin following therapy, methods for treatment of, 25:46903
effects on human skin, characteristics of acute and chronic ionizing, 24:2810
effects on human skin, chemosurgery technique for treatment of carcinogenic, 22:45701
effects on human skin, effectiveness of 5-fluorouracil for treatment of ionizing, 23:31830
effects on human skin, effects of dose on, 24:42014
effects on human skin, effects of dose, energy level, and age on, 25:32611
effects on human skin, evaluation of eight single preparations and combinations for local protection against, 25:24212
effects on human skin, minimal energy dose determination for erythematogenic, 25:16363
effects on human skin, pathological, 24:44528
effects on human skin, protection against, 23:22331
effects on human skin, review of, 23:43892
effects on human skin, review of, 23:29841
effects on human skin, review of treatment for pathological, 23:8040
effects on human skin, ulcerative, 25:597
effects on human skin, use of fractionated doses and Tanderil to prevent, 23:38633
effects on human sperm, in relation to fetal abnormalities, 23:41498
effects on human spinal cord following therapy of cancer of chest and neck area, latent, 24:23389
effects on human spinal cord, histology of ionizing, 23:16426
effects on human teeth following therapy, pathological, ionizing, 24:25589
effects on human thorax following therapy for mediastinal seminomas, pathological, 23:20407
effects on human thyroid following exposure to atomic bombing, incidence of neoplastic, 25:16371
effects on human thyroid following head or neck therapy, characteristics and treatment of carcinogenic, 24:42021
effects on human thyroid following therapy of neurofibromatosis, carcinogenic, 23:45934
effects on human thyroid following therapy of thyroid diseases during childhood, carcinogenic, 23:41485
effects on human thyroid gland following childhood therapy of enlarged thymus, neoplastic, 25:16372
effects on human thyroid in relation to therapy of upper body, carcinogenic, 23:35927
effects on human thyroid, review of therapeutic carcinogenic, 22:51905
effects on human tissues, effectiveness of additional treatment with iron and steroid preparations for minimizing therapeutic, 25:55303
effects on human tissues, use of plastic surgery for treatment of, 23:45793
effects on human tissues, variations in pathological, 25:42454
effects on human transitional cell carcinomas of nasopharynx, development and treatment of dental decay following therapeutic, 22:31174
effects on human tumors, combined effects of hyperbaric oxygen on, 23:41411
effects on human tumors, effects of oxygen on therapeutic, 23:876
effects on human ureter following therapy, surgical methods for treatment of, 25:26814
effects on human ureters following therapy of gynecological disease, treatment methods for, 23:41363
effects on human ureters following therapy, use of terminal ileum substitution for repair of, 24:41914
effects on human uterus, carcinogenic ionizing, 23:38830
effects on human vagina following therapy, method for surgical repair of, 25:32609
effects on human vagina, protective effects of estrogen ointments against ionizing, 25:37830
effects on human vision, review of, 25:52250
effects on human vulva following therapy of cervical carcihoma, pathological, 24:42005
effects on HWOCR fuel and cladding, 21:42724(R) (AI-CE-56)
effects on HWOCR fuel assemblies, 21:42723 (AI-CE-43)
effects on HWOCR fuel elements and pressure tubes, in-pile, 21:23587(R) (AI-CE-31)
effects on hybrid and parent strains of maize, comparison of recovery from, 25:42722
effects on hybridization of RNA in cultured mouse leukemic cells, effects of dose on lethal, 25:46725
effects on hydride defects in Zircaloy-2 and -4-clad uranium dioxide, 23:36281
effects on hydroaromatic compounds in solutions of alcohols, amines, ethers, and halohydrocarbons, mechanism of, 24:31398
effects on hydroaromatic compounds, effects of substituents on, 22:42737
effects on hydroaromatic compounds, review on mechanism of electronic energy transfer in, 23:4677
effects on hydroaromatics, review on, 22:42802
effects on hydrocarbon—TBP mixtures, effects of nitric acid on, 25:54644
effects on hydrocarbons—styrene, 22:785(P)
effects on hydrocortisone induction of brain glycerolphosphate dehydrogenase, ionizing, 23:26687 (UCLA-12-706, pp 45-72)
effects on hydrogen exchange between ethane and silicon gel, 23:43366
effects on hydrogen isotope exchange in polyamino acids, 23:20120
effects on hydrogen isotope exchange reaction between 2-methyl-2-propanol and water, mechanism of, 24:16587
effects on hydrogen transfer in cyclohexane—hexane, effects of concentration and dose on, 21:27996(R) (RRL-2310-199)
effects on hydrogen—hydrogen peroxide—oxygen—water system, yields of hydrogen peroxide in, 22:33423
effects on hydrogenated terphenyl mixtures, in-reactor, 21:14029
effects on hydroxylation of anisole in dilute aqueous solutions, yields of methoxyphenols and phenol in, 22:96(R) (RRL-2310-214)
effects on hydroxylation of nitrobenzene in dilute aqueous solutions, 22:96(R) (RRL-2310-214)
effects on hydroxylation of nitrobenzene in dilute solutions, 21:27996(R) (RRL-2310-199)
effects on hydroxyproline excretion in urine of rats, effects of dose and dose fractionation on, 24:50752
effects on hyperexcretion of deoxycytidine and thymidine in lymphoid tissue, effects of antilymphocyte serum on, 24:50736
effects on hypoxia mouse mammary carcinoma cells, repair following, 23:20326
effects on ice and water, effects of dielectric relaxation on electron escape in, 21:42984
effects on ice, electron trapping mechanism for color centers formed by, 23:42460
effects on ice, formation and stability of solvated electrons in, 24:20804
effects on ice, mechanism of electron trapping in, 24:21867
effects on ice, properties of hydroxyl radical and solvated electron in, 22:96(R) (RRL-2310-214)
effects on ice, spectral studies on temperature effects in, 21:27996(R) (RRL-2310-199)
effects on ice, water, and water vapor, elementary processes and reactions in, 24:20807
effects on II—VI compound semiconductors, review, 25:56291
effects on III-V semiconductor compounds, 25:59138
effects on immune competence of spleen cells from mice, effects of presence of thymus tissues on sublethal, 22:19282
effects on immune properties and size of thymocytes during thymus repopulation in rats, 24:9786
effects on immune reaction of proteins in rabbit liver, effects of antibiotics on, 21:20053
effects on immune reactions and development of spleen germinal follicles in chickens, inhibitory, 25:39804
effects on immune reactions and serum proteins of chickens, effects of bursectomy on, 23:41439
effects on immune reactions between donor and host tissues in mice treated with hamster or rat marrow, 22:12815
effects on immune reactions in animals, effects of hematopoietic stem cell transplants on recovery from, 24:12242 (STI/PUB-186)
effects on immune reactions in animals, review of, 22:51414
effects on immune reactions in chickens, combined effects of bursectomy or thymectomy on, 23:8067
effects on immune reactions in chickens, combined effects of hormonal or surgical bursectomy on, 22:40534
effects on immune reactions in guinea pigs following transplantation of homologous bone marrow and spleen cells and challenge with diphtheria toxoid and thyphoid vaccine, 23:2952
effects on immune reactions in human skin, effects of dose on stimulating, 24:36841
effects on immune reactions in mammals, 21:32781
effects on immune reactions in mice, 22:51431
effects on immune reactions in mice, 21:18173
effects on immune reactions in mice following transplantation of parental and hybrid tumors, 25:26985
effects on immune reactions in mice, effects of age on, 21:18175
effects on immune reactions in mice, effects of preincubation with bone marrow on lethal, 25:26662
effects on immune reactions in mice, ionizing, 23:50379
effects on immune reactions in mice, ionizing, 23:4879
effects on immune reactions in personnel, effects of chronic exposure on, 22:21430
effects on immune reactions in rat spleen following injection of sheep erythrocytes, effects of dose on, 23:50380
effects on immune reactions in rats, 22:51433
effects on immune reactions in rats following injection of mixed liver and spleen extracts in relation to protein synthesis, 22:25771
effects on immune reactions of animals following transplantation of hematopoietic cells, review of, 25:8616
effects on immune reactions of baboons and monkeys to allogeneic and autologous bone marrow transplants, 900 to 1100 R, 24:17070
effects on immune reactions of blood to skin transplants in cattle, combined effects of imuran on extracorporeal, 23:9827 (BNL-12784)
effects on immune reactions of chimeras, 25:44778
effects on immune reactions of dogs 3 months to 4 years after exposure, 24:7767
effects on immune reactions of dogs, man, and monkeys prior to bone marrow grafting, 25:8617
effects on immune reactions of hosts to parasites, 24:11975 (STI/PUB-181)
effects on immune reactions of lymph system, ionizing, 24:648
effects on immune reactions of lymphoma cells with lymphocytes in vitro, 23:50389
effects on immune reactions of macrophage-bound bovine serum albumin, 24:17004
effects on immune reactions of mammals, effects of dose rate on acute and chronic, 22:49175 (CONF-680410-, pp 16.1-23)
effects on immune reactions of mammals, review of ionizing, 22:45449
effects on immune reactions of mice following injection of human antigens, 24:39441(R) (SAN-410-106)
effects on immune reactions of mice to homologous or isologous bone marrow, 22:19277
effects on immune reactions of mice to injected foreign bone marrow, effects of dose rate on, 21:45779 (ORAU-101, pp 23-7)
effects on immune reactions of mice to sheep red blood cells, 25:49115
effects on immune reactions of mice to sheep red cells, effects of injections of spleen cells from mice treated with DMBA on, 25:10990
effects on immune reactions of mice to syngeneic lymph tissue transplants, 23:31666
effects on immune reactions of mice, effects of bone marrow transplants and dose on, 23:50392
effects on immune reactions of mice, effects of transplants of bone marrow, embryonic liver, and spleen on, 25:18921
effects on immune reactions of rabbits, effects of pentoxyl on, 24:9782
effects on immune reactions of spleen cells of mice on Ehrlich tumor cells in vitro, 24:31866
effects on immune reactions of thymectomized mice, effects of epithelial remnants or whole organ thymus grafts on, 23:48091 (UCLA-12-724, pp 43-70)
effects on immune reactions of transplants following extracorporeal exposure of blood, 24:48438(R) (TID-25490)
effects on immune reactions to bovine gamma globulin in Freund's adjuvant in guinea pigs, 25:29474
effects on immune reactions to cancer, combined effects of bone marrow transplants on, 22:12785
effects on immune reactions to foreign proteins in mice, ionizing, 23:35673
effects on immune reactions to inflammation in rats, 23:41267
effects on immune reactions to injected bovine gamma globulin in rats, effects of endotoxin stimulation on, 22:8462
effects on immune reactions to injected syngenic bone marrow in rats, 21:18174
effects on immune reactions to isologous lymphocytes and spleen cells in mice, protective effects of bone marrow against, 22:6744
effects on immune reactions to kidney transplants, in dogs, 21:18172
effects on immune reactions to lymphocytes in dogs, 24:48449
effects on immune reactions, review of, 25:16061
effects on immune reactions, review of cellular and functional changes following, 25:21812
effects on immune response and thymus activity in mice, effects of adrenalectomy on mechanisms for, 24:25416
effects on immune response following enteral typhoid vaccination in mice, 24:12016
effects on immune response in animals in relation to role of lymphatic tissues, 24:39439 (CONF-680634)
effects on immune response in mice, effects of bone marrow- and thymus cells on restoration following, 23:9885
effects on immune response in mice, effects of implants of immunized syngeneic lymphoid cells on, 24:41778
effects on immune response of guinea pigs and rabbits to smallpox vaccine in relation to plasma cell reaction, 24:27553
effects on immune response of hamsters to skin transplants, effects of lymphocyte injections on whole-body, 22:10683

effects on immune response of mice chimera to cytomegallic virus, effects of thymectomy on, 22:8483
effects on immune response of mice for use in immunological analysis of ability of RNA to transfer information for antibody synthesis, 21:41311 (AD-648964)
effects on immune response of mice to Ehrlich ascites carcinoma, effects of sex on whole-body, 22:10684
effects on immune response of mice, effects of implanted lymphoid cells on restoration of whole-body lethal, 25:52006 (A/CONF.49/P-320)
effects on immune response of rabbits in relation to formation of antibodies in liver and spleen explants, effects of choline on, 24:25418
effects on immune response of rabbits to skin transplants, whole-body ionizing, 21:39522
effects on immune response to bone marrow injections in chimeric mice, effects of early incompatibility reactions on lethal whole-body, 22:51309 (ORAU-106, pp 194-220)
effects on immune response to heart transplants in rats, combined effects of hyperbaric oxygen and hypothermia on ionizing, 24:646
effects on immune responses in laboratory animals, review of, 23:45677
effects on immune responses of mice, effects of proliferation of transplanted lymphocytes on, 22:49264
effects on immune tolerance in mice, combined effects of repopulation with bone marrow or spleen cells and thymectomy on, 24:36725
effects on immunity of farm and laboratory animals to endogenous and exogenous infectation, 24:31865
effects on immunogenesis in animals, effects of cysteine and somatotropic hormone on recovery from, 24:7939
effects on immunogenicity of cercariae of Schistosoma japonicum, effects of sex on, 24:34141
effects on immunologic mechanisms in lymphatic tissues, 24:39439 (CONF-680634)
effects on immunological capacity of thymus transplants in mice, ionizing, 21:22713
effects on immunological competence in rats following transfer of lymphocytes, 25:21609
effects on immunological response to skin allografts, effects of extracorporeal lymph exposure on, 22:14906 (BNL-50057, pp 123-37)
effects on immunopathic reactions of human lungs following therapy for disreactive pulmonary diseases, 23:38871
effects on immunosuppression in animals and man, combined effects of cytostatic agents on therapeutic, 24:616
effects on implanted ascites hepatomas in mice and uterine cervical carcinomas in man, effects of DNA content and tritium labeling index of tumor tissues on sensitivity to, 23:41390
effects on implanted ascites hepatomas in rats, effects of mixed gas inhalation on tissue oxygen tension in relation to sensitivity of tissues to, 23:41388
effects on implanted hepatomas in mice and uterine cervical carcinomas in man, effects of phosphorus-32 uptake by tumor tissues on sensitivity to, 23:41389
effects on impurities and microorganism infestations in sewage, 24:9976 (GA-9632)
effects on inactivation of buds in tobacco plants in relation to formation of tumors, ionizing, 22:28700 (ANL-7278, pp 283-96)
effects on incidence of aplastic anemia in atomic bomb survivors, late, 25:42698
effects on incidence of aplastic anemia in bone marrow of man, effects of dose on, 22:6881
effects on incidence of bile duct and gallbladder carcinomas in man in Hiroshima and Nagasaki following detonation of atomic bomb, ABCC report on significance of, 25:47011 (ABCC-TR-7-70)
effects on incidence of cancer and leukemia in human populations in relation to FRC guidelines for general exposure, low-dose, 24:39584
effects on incidence of chromosome aberrations in Nigella and Vicia in comparison to chemical mutagens, 25:46792
effects on incidence of chromosome aberrations in man, therapeutic, 22:33955
effects on incidence of chromosome aberrations in man exposed to atomic bombing, 22:15085
effects on incidence of dermatitis in man, histopathology of, 24:908
effects on incidence of diabetes in atomic bomb survivors at Hiroshima, 22:4684
effects on incidence of leukemia among atomic bomb survivors at Hiroshima, 22:2527
effects on incidence of leukemia among atomic bomb survivors at Nagasaki, 22:2526
effects on incidence of leukemia and lymphomas in man, 22:49590
effects on incidence of leukemia in adult human populations, demographic parameters for differences between, 24:42010
effects on incidence of leukemia in man exposed to atomic bombing at Hiroshima, 22:4685
effects on incidence of leukemia, effects of dose on ionizing, 24:34645
effects on incidence of lymphocytic thyroiditis in closed colonies of beagle dogs, effects of genetics on, 24:41981
effects on incidence of necrosis of femoral bone of man, therapeutic, 22:4692
effects on incidence of neoplasms in human populations following nuclear attack, 23:50590 (CONF-671135-, pp 199-203)
effects on incidence of thyroid adenomas and carcinomas in man, therapeutic, 22:8617
effects on incidence of thyroid cancer in human population in USA, environmental, 24:895
effects on incidence of vesicoureteral reflux during use for therapy of uterine cancer, 23:38873
effects on incidence of whole-body skin eruptions in man following therapy of malignant tumors, 25:11296
effects on incised muscle of rats, protective effects of cystamine against, 22:47567
effects on Inconel pressure tubes, 21:28798(R) (HW-78760)
effects on incorporation of carbon-14 and tritium-labeled thymidine in lymphocytes by extracorporeal exposure of blood, 25:16038
effects on incorporation of tritium into DNA and thymine, effects of dose on, 23:11929(T) (AEC-tr-6646/4A, pp 21-4)
effects on individual chromosomes, biometric testing methods for model to explain, 22:51516
effects on induced conductivity of reactor signal cable insulation, 22:16271(R) (BNWL-666)
effects on induced currents in reactor signal cables, 22:16271(R) (BNWL-666)
effects on induction of emulsion, graft, and suspension polymerization in industry, review on, 24:50398 (CONF-690916-(Vol.1), pp 69-84)
effects on induction of enzymes by hormones in cultured glial cells and rat brain, ionizing, 23:47954 (UCLA-12-724, pp 71-87)
effects on induction of late intestinal lesions, therapeutic doses, 21:28629
effects on induction of osteogenic sarcomas in man, 21:28628
effects on induction of prophage in lysogenic microorganisms, effects of dose on, 21:18185
effects on induction of thymic lymphomas in mice, protective effects of polycytidylic acid—polyinosinic acid against whole-body, 25:39932
effects on induction of vascular lesions in skin of mice, microradiographic studies on, 25:21770
effects on infection and immune mechanisms in organisms, bibliography of ionizing, 22:4566 (TID-23990(Suppl.1))
effects on infection and immune reactions in organisms, bibliography of ionizing, 22:4565 (TID-23990)
effects on infectivity of fungi in sterile corn, role of cytoplasm in, 25:11010(R) (ORO-2583-8)
effects on infectivity of Plasmodium berghei, in rats, 24:50789
effects on infestation of mammals by fleas at National Reactor Testing Station, 23:10095
effects on infrared detectors, nuclear explosion, 25:29411
effects on inguinal and paraaortic lymph nodes in rats using electron microscope, whole body, 24:21275
effects on inhibition of sprouting in potatoes, methods for detecting, 25:27145
effects on inhibitory properties of peritoneal exudate cells of guinea pigs, 24:44453
effects on initiation of boiling in sodium, 22:52227
effects on initiation of chemical reactions, 22:27835(P)
effects on initiation of chemical reactions, 23:40760(P)
effects on inorganic and organic compounds in aqueous solutions, elementary processes and reactions in, 24:20807
effects on inorganic and organic compounds in aqueous solutions, reaction rates for hydrated electrons, hydrogen atoms, and hydroxyl radicals in, 21:32200
effects on inorganic glasses, studies on trapped radicals in, 22:30606
effects on inorganic molecular ions, research progress on, 25:54633(R) (ORO-3660-4)
effects on inorganic solids, ESR studies of damage from, 23:48979
effects on insect control using sterilized male technique, description of model for population response in, 25:27153
effects on insect eradication using sterile male technique by induction of chromosome translocations, 25:29752
effects on insect fruit pests in Bolivia, Chile, and Peru, sterilizing, 25:27130 (CONF-680112-, pp 129-42)
effects on insects and plants of agricultural importance, 23:10108(R) (NYO-2043-173)
effects on insects in space flight, mutagenic, 24:829
effects on insects, combined effects of space flight on physiological and somatic, 24:830
effects on insects, genetic, 21:32770
effects on instruments and materials, conference on, 23:17860
effects on insulating oxide ceramics, literature survey, 22:36553 (N-68-17095)
effects on insulating oxide layers in silicon junctions, effects of ion implantation on, 24:51788(R) (N-70-26555)
effects on insulin treatment of alloxan diabetes in rats, 23:10077
effects on interferon formation and virus replication in monkey kidney cells infected with Newcastle disease, 25:27113
effects on internal friction of high-purity aluminum, in-pile, 21:36898
effects on internal friction spectrum of nickel, (E), 23:12956 (CEA-CONF-1135)
effects on internal polarization in inorganic and organic crystals, method for measuring, 23:7102(R) (NYO-2962-7)
effects on interoceptive reflexes in cats, effects of perphenazine on, 25:29643
effects on interspecies hybrids of wheat, mutagenic ionizing, 24:681
effects on interstitial production in potassium chloride, 25:33402(R) (ORNL-4669)
effects on intestinal and skin bacteria in patients following therapy for rectal cancer, 25:32626
effects on intestinal epithelial cells in mice, effects of dose on effects of hypoxia on, 25:16222
effects on intestinal mucosa in guinea pigs, 21:26599
effects on intestinal mucosa of man, origin and kinetics of goblet cells during post-operative, 25:35240
effects on intestinal reactions of mammals, protective effects of vitamins against, 22:51896
effects on intestinal tract of man, pathology and treatment of, 25:26811
effects on intestine of man following therapy for carcinoma of endometrium, 22:2551
effects on intestine of man following use in therapy of abdominal neoplasms, effectiveness of surgery for treatment of, 23:29596
effects on intestine, research on lethal, 22:49554
effects on intestines in man, following therapy, latent pathological ionizing, 24:12202
effects on intestines of mice, protective effects of exposure to magnetic fields against hemorrhagic, 24:41908
effects on intestines of rats following ingestion of mixed radioisotopes, mechanism of damage and repair following chronic, 25:11271
effects on intestines of rats, comparison of, to effects of sodium taurocholate, 21:38815(R) (BNWL-293)
effects on intestines, combined effects of thermal damage on recovery from, 22:14905 (BNL-50057, pp 111-22)
effects on intestines, mechanism and treatment of ionizing, 21:34650(R) (BNWL-322)
effects on intracellular components of cells, damaging, 25:29457
effects on iodomethane, effects of solute concentration on ion scavenging processes in, 21:27996(R) (RRL-2310-199)
effects on ion and radical polymerization, mechanisms of, 23:2307(T) (NP-tr-1709)
effects on ion exchange materials, ESR studies of, 23:49820
effects on ion exchange resins, design of vessels for studying, 23:11570
effects on ion production and neutralization in condensed media, 22:29291
effects on ion—molecule reactions in gaseous systems, 24:27146(P)
effects on ion—molecule reactions in gaseous systems, 23:45311(P)
effects on ion-exchange materials, effects of ferrocene, cyclopentadienylmagnesium tricarbonyl, and vinylanthracene on, 21:15922
effects on ionic grafting of 2-methylpropene or α-methylstyrene with polyethylene fluff, 21:40930
effects on ionic polymerization in irradiated organic glasses, 23:47494
effects on ionic polymerization of styrene, mechanism and rate of, 22:40144
effects on ionic solids, 21:24859
effects on ionization in naphthacene crystals, mechanisms of, 23:7102(R) (NYO-2962-7)
effects on ir spectra of polymer films, 24:18982(T) (AD-698524)
effects on iron, mechanism of, 21:26861(R) (BNWL-CC-658)
effects on ischemia damaged kidneys in rats, fractionated low-dose, 25:29654
effects on isoenzyme composition of enzymes in blood serum and liver extracts of rats in relation to severity of radiation sickness and survival, 24:7750
effects on isolated DNA, 25:29462
effects on isolated nuclei of astrocytes, neurons, and oligodendrocytes in rats, 24:25554
effects on isolated testes of sparrows, combined protective effects of ethylene glycol and exposure in liquid air against ionizing, 24:27613
effects on isotopic exchange in gaseous nitrogen, effects of oxygen and rare gases on, 22:10310
effects on Japanese pressure vessel steel, 22:2620
effects on jaw bone of man following therapy of face and neck carcinomas, treatment of necrotic, 25:21912
effects on jaw bones following therapy of oral neoplasms, prosthetic repair of ionizing, 23:38630
effects on jaw bones of man, necrotic, 23:29861
effects on jejunal crypt cells of intestines in animals, effects of dose rate on whole-body, 25:26957
effects on kidney parenchyma following therapy of human carcinomas, methods for radiodiagnosis of, 25:32465
effects on kidneys during scanning, effects of dextran and mannitol on, 23:2899
effects on kidneys of man, histological analysis of therapeutic, 22:33952
effects on kidneys of rabbits following therapy of abdominal neoplasms, 22:40756
effects on kidneys of rats, effects of 4800 to 9600 on histological, 25:11286
effects on kinetics of cell populations in fish, 23:33855
effects on kinetics of cellular proliferation in tumors, 24:12258
effects on L cells, effects of mitotic stage and nucleotides on, 23:12227(T) (AEC-tr-6646/4A, pp 73-5)
effects on labeled binary organic mixtures, yields of labeled compounds in, 22:30615
effects on laboratory animals, effects of biological rhythms and physiological state on, 23:902 (CEA-R-3409)
effects on laboratory personnel, diagnosis of ionizing, 22:45722
effects on laboratory personnel, effects of chronic exposure on, 21:32658 (UCRL-17573)
effects on Lambert cherries, embryo sac development following mutagenic, 23:31691
effects on larvae of Nippostrongylus, effects of oxygen and temperature on, 24:12224
effects on larvae of Syngamus trachea, lung pathology in chickens infected following, 24:50777
effects on lasers, review of mechanisms of, 22:12723
effects on latent sensitivity of rats to electrical irritation, 23:16388
effects on lattices, mechanism for formation and growth of interstitial clusters in, (T), 24:12883
effects on length of deoxynucleoprotein fibers, effects of temperature on ionizing, 24:7748
effects on lens of eyes in man, development of cataractogenic, 22:38451
effects on lettuce, growth characteristics following mutagenic, 23:14148

effects on leucine uptake by cotyledons of peanut seeds, 23:45961
effects on leukemia and lymphomas in man, 23:29850
effects on leukemia, combined effects of bone marrow grafting on therapeutic whole-body, 22:6840
effects on leukemogenesis in thymus grafts, 23:48091 (UCLA-12-724, pp 43-70)
effects on leukocyte chromosomes of man at Hiroshima, aberrant, 22:28558
effects on leukocyte count and protein content of blood in chipmunks, 22:6769(R) (NYO-2579-17)
effects on leukocyte count in man, use of inosine for treatment of, 23:50643
effects on leukocyte count in rabbits, combined effects of traumatic infection of radius bones on, 24:21302
effects on leukocyte count of man following cancer therapy, use of Metaloc (chlorophyllins) for treatment of, 23:50649
effects on leukocytes of human blood, effects of phytohemagglutinin on, 25:11299
effects on leukocytes of man, use of lysozyme for treatment of ionizing, 22:21548
effects on leukocytes of normal and leukemic man, aberrant ionizing, 23:12054
effects on leukocytes of rats, effects of dose on lethal, 22:36353
effects on leukocytes, effects of dose, species, and strain on recovery from, 22:38429 (UCSF-10-P-2-49)
effects on leukocytes, effects of species on restoration following, 24:12283
effects on leukokinetic patterns in leukemic man, tritium tracer study of, 23:48181
effects on leukopenia development in personnel in United Arab Republic Atomic Energy Establishment, 25:47021
effects on leukopenia in mice and rabbits, protective effects of marimycin against, 23:10030
effects on leukopoiesis in man following therapy of malignant tumors, combined effects of magnetic field on ionizing, 23:29887
effects on leukopoiesis in personnel, 24:48577
effects on life shortening in mammals, dose-response relation in, 21:22672
effects on life span of animals and man, 25:27036 (CONF-691057)
effects on life span of animals, prediction of low dose ionizing, 24:9923 (CONF-690303-, pp 269-81)
effects on life span of mammals, mathematical model using Gompertz function for estimation of, 25:32576
effects on life span of mammals, tracer studies of protective effects of chemicals, genetic factors, and thymus against, 23:43803
effects on life span of rats, tracer studies on role of physiological functions in, 25:42668
effects on life span of scientific personnel in relation to field of work, 24:4636
effects on life spans of animals and man, acute and latent effects of ionizing, 23:14255
effects on life spans of mice, relation of, to free radical reactions, 24:9940
effects on life spans, role of physiological aging on, 24:51074
effects on lifespan of mammals, review of, 21:22672
effects on light emission in aqueous solution of sodium salicylate, ionizing, 24:14413(R) (NYO-3242-34)
effects on linear and cyclic methylsiloxanes adsorbed on silicon dioxide, yields from, 25:39538
effects on lipid content of frog lens, effects of 10 kR dose on, 24:11949
effects on lipid metabolism in rats, whole-body, 21:28351
effects on lipids and proteins of meats, 22:8673
effects on lipids in bone marrow, 21:22772
effects on lipids in liver of mice in relation to free radical formation, 22:28370
effects on lipids, equipment and method for isolation and measurement of volatile hydrocarbons from, 23:33242
effects on lipofuscin accumulation in man exposed to atomic bombing of Hiroshima and Nagasaki, 25:35241
effects on liquefaction of agarose jellies, protective effects of artificial food coloring dyes, flavin mononucleotide, and nitrous oxide against, 23:11529 (BNWL-481-2, pp 127-53)
effects on liquid dihexylmercury, mechanism and yields in, 22:4202
effects on liquid ethane at 195°C, effects of cyclopentane on yields from, 24:22676
effects on liquid hexane, effects of benzene, 1-hexene, and octafluorocyclobutane on yields in, 22:23034 (IA-1128, pp 78-96)
effects on liquid hexane, effects of dose and iodine on yields from, 22:18834
effects on liquid hydrocarbons, electron scavenging processes in, 22:30591(R) (RRL-2310-231)
effects on liquid hydrocarbons, electron-scavenging processes in, 23:47496
effects on liquid hydrocarbons, radical yields in, 22:42804
effects on liquid inorganic hydrogen compounds, review on, 24:48136
effects on liquid methanol, comparison of photolysis with, 24:31404
effects on liquid organic dielectrics, review on measurement of, 24:36305
effects on liquid polyethylene, uv spectral studies on formation of diene free radicals in, 22:30584(R) (COO-1088-30)
effects on liquid, deuterated and normal hexane, review on, 22:42800
effects on liquid, solid, and vaporous alcohols, review on, 25:178
effects on lithium fluoride crystals, electron microscopic studies of, 23:43366
effects on lithium fluoride crystals, emission spectra during thermoluminescence from, (E), 21:44188
effects on lithium fluoride crystals, EPR studies of paramagnetic defects produced in, 22:34764
effects on lithium fluoride crystals, EPR study of Y centers induced in, 24:45318
effects on lithium fluoride single crystals, aggregation of F centers induced in, (T), 25:22621
effects on lithium fluoride single crystals, model calculations of defect auto-annihilation in, 25:38555
effects on lithium fluoride, color centers and thermoluminescence produced in, 25:11958
effects on lithium fluoride, correlation of model with dose dependence of thermoluminescent, 24:9731 (COO-1105-102)
effects on lithium hydride, formation of molecular hydrogen by, 23:45309 (UCRL-50698)
effects on lithium-doped beryllia and zinc oxide, structure of paramagnetic center formed in, (E/T), 22:50241
effects on liver and spleen of mice, protective effects of cysteamine against, 22:17041
effects on liver cells in rats following focal or whole-body exposure, combined effects of phytohemagglutinin on, 23:38782
effects on liver function in man, short-wave, 23:29893
effects on liver in human children following therapy for Wilms' tumor in right kidney, 25:26884
effects on liver in therapy of human metastases, use of detoxification agent Hepamerz in combination with, 24:32124
effects on liver of children, combined effects of antineoplastic drugs and pathological, 25:18999
effects on livestock, pathology of latent, 25:16319 (ORO-678, pp 65-73)
effects on living cells, mechanisms in death from ionizing, 23:35839(T) (AD-682427)
effects on living cells, molecular mechanisms for, 25:42727 (NYO-2804-38)
effects on living organisms and tissues, bibliography on, 22:51869 (AED-C-04-31)
effects on living organisms, in comparison with age, environment, and thermal energy, information theory for studying, 25:8742
effects on living organisms, mechanisms for development and repair of pathological, 25:21749
effects on living organisms, review of biochemical, 23:780
effects on living organisms, symposium on recovery processes following, 23:20315 (BNL-50058)
effects on living systems, carcinogenic, 22:31251
effects on living systems, discussion of phenomena and reactions in, 21:16273
effects on living tissues and organisms, bibliography on, 22:4663 (AED-C-04-30)
effects on logic circuits, hardening against, 21:3365
effects on long-chain alkanes, energy transfer mechanisms of, visible and uv absorption studies on, 24:29347
effects on longevity of wasps, effects of ploidy on, 21:41509
effects on low-cycle fatigue properties of hafnium, 21:36840
effects on low-frequency noise and surface recombination velocity in MOS diodes, 23:11927 (HMI-B-75)
effects on lower jaws in rabbits, effects of dose and time on, 25:27003
effects on lubricating and heat-transfer oils, hydrocatalytic treatment for minimization of, 21:15967(P)
effects on luminescence and respiration in pea plant germinants, 22:15116
effects on luminescence in alkali metal halide crystals, (T), 22:9431
effects on luminescence in organic compounds, review on, 24:27137
effects on luminescence in solid organic compounds, review on, 25:154
effects on luminescence of alkali metal halide crystal phosphors, 21:29374
effects on luminescence of liquid alkylbenzenes, 24:18990
effects on luminescence of lithium fluoride, filtered and unfiltered reactor-, (E), 24:18017(T) (ANL-Trans-810)
effects on luminescence of phosphorus-activated alkali metal halide crystals, 21:29373
effects on luminescence of polystyrene, 23:28893
effects on lung cells of animals, pathological, 25:29636
effects on lung tissues in comparison to internal exposure from radioisotopes, effects of cumulative dose on, 24:51071
effects on lung tumors in man, combined effects of methotrexate on therapeutic, 22:4633
effects on lungs following therapy of esophageal neoplasms, pathological, 25:49309
effects on lungs in rats, effects of intratracheally injected blood on whole-body, 24:50719
effects on lungs of animals and man, pathogenesis of, 22:40936
effects on lungs of dogs following exposure of thorax, pathological, 22:40937
effects on lungs of man following inhalation, design of model for estimating carcinogenic, 23:48237 (AD-690576)
effects on lungs of man following therapy of bronchogenic carcinomas and Hodgkin's disease, incidence of fibrotic, 24:25584
effects on lungs of mining personnel, carcinogenic ionizing, 22:25963
effects on lungs of mining personnel, effects of dose on carcinogenic, 23:5045
effects on lungs of rats, histochemical studies on late whole-body, 24:50718
effects on lymph nodes of man following therapy, 22:43465
effects on lymph nodes of mice, effects of, on systemic immunity to reimplantation of tumor cells in comparison to effects of removal of lymph nodes, 22:43241
effects on lymph nodes of rats, comparison of recovery from partial- and whole-body, 25:29669
effects on lymph system in mammals, relation of, to antibody formation, ionizing, 25:8762
effects on lymph system in man and pigs, combined effects on surgery on, 24:766
effects on lymph system in man following therapy, use of second look lymphography to determine pathological, 24:41921
effects on lymph system of rabbits, growth of transplants of carcinoma cells following, 23:16418
effects on lymphatic and venous blood outflow in rabbits, combined vein resection and, 25:32561
effects on lymphocyte circulation in calves, effects of dose rate on, radioisotope method for studying extracorporeal, 23:50815
effects on lymphocyte count in cirrhosis patients following extracorporeal exposure of blood, 25:52248
effects on lymphocyte count of calves following extracorporeal exposure of blood, 25:44950
effects on lymphocyte nuclei from rats, ionizing, 23:6392
effects on lymphocytes and mixed-cell reactions, 23:31674
effects on lymphocytes following extracorporeal exposure of blood and lymph, 23:31661
effects on lymphocytes in man afflicted with leukemia in relation to effects of antilymphocytic globulin, extracorporeal, 24:32134
effects on lymphogranulomatosis, atrophy of kidney following therapeutic, 22:23587
effects on lymphogranulomatosis, blood picture following therapeutic, 21:45719
effects on lymphoid cell count in blood of man, 24:34725
effects on lymphoid cells in bone marrow of mice, effects of cortisone on, 25:46888
effects on lymphosarcomas and retotheliosarcomas in man, mantle method for therapeutic, 25:29599
effects on lymphosarcomas in mice, combined effects of ambunol and propylgallate on ionizing, 23:12214
effects on lysosomal membranes of cultured liver cells, effects of dose and temperature on ionizing, 24:7978
effects on lysosomes and metabolism of HeLa cells, ionizing, 22:33754
effects on lysosomes in rat livers, enzyme concentration studies for determining, 24:34076 (AD-701756)
effects on lysozyme in solutions, protective effects of cysteine against ionizing, 25:4544
effects on M-1 sarcoma cells, protective effects of cystaphos against, 25:32439
effects on M1 sacoma cells of rats, effects of dose and dose fractionation on repair of, 24:34697
effects on macromolecular organization of DNA and DNP, ionizing, 22:14955
effects on macromolecule synthesis and in cultured hamster cells, combined effects of x radiation on, 24:21270
effects on macromolecules of connective tissue in relation to pathogenesis, 24:27526
effects on macromolecules, ionizing, 21:24314
effects on macromolecules, mechanisms for protective effects of sulfhydryl and other agents against, 24:12120
effects on macromolecules, protective effects of methylthioureas on, 23:40715
effects on macrophage-histiocytic system, review of, 25:44779
effects on magnesium content of blood serum following therapy of ovarian carcinomas, 25:52249
effects on magnesium content of mitochondria and nuclei in rat thymus cells, ionizing, 24:16977
effects on magnesium oxides, thermoluminescence of color centers, 21:44165
effects on magnetic materials, review, 24:21863
effects on Magnox-clad uranium bars, relation to crystallographic texture of uranium, 21:9206
effects on main, review of genetic and somatic, 23:10106
effects on malignant brain tumors in man, combined effects of surgery on therapeutic, 22:31140
effects on malignant cells, basic medical research in, 22:43346(R) (ACRH-28)
effects on malignant tumors in man, development of sarcomas following, 25:32612
effects on malignant tumors of man, combined effects of Ametohepazon on, 22:23582
effects on malignant tumors, effects of antiblastic substance from methylhydrazine on, 22:6862
effects on malignant tumors, effects of cell oxygenation on clinical and experimental, 22:47550
effects on malonic and succinic acids, yields from reactor, 23:21761
effects on mammalian cell cultures, effects of adaptation, LET, and rate of proliferation on continuous, 22:25991
effects on mammalian cells, cytokinetic basis for variations in, 22:43349 (UCSF-10-P-2-39, pp 125-260)
effects on mammalian cells, effects of non-protein SH content and stage of mitosis on, 23:38491
effects on mammalian cells, repair mechanisms for sublethal ionizing, 25:37856 (A/CONF.49/P-93)
effects on mammalian cells, review of effects of dose fractionation, LET, oxygen, protective agents, and sensitizing agents, 24:34541
effects on mammalian cells, review of RBE for mutagenic, 24:39481
effects on mammalian cells, review of relation between recovery and dose rate in, 25:58088
effects on mammalian cells, sensitivity of physiological processes and ultrastructures to ionizing, 24:27522 (CONF-690540-, pp 13-21)
effects on mammalian cells, use of titanium rotor for determining DNA repair of, 24:31840 (ORNL-4558, pp 29-32)
effects on mammalian sarcomas, effects of mitosis and tissue structure on, 23:20385
effects on mammalian species, LD$_{50}$ values for, 24:12275

effects on mammalian testis, effects of age, dose rate, and radioprotective compounds on sensitivity to, 25:46981
effects on mammals, calculation of rate of decay of dose equivalent of sub-lethal, 24:6118
effects on mammals, comparison of hematological changes following whole-body ionizing, 24:12281
effects on mammals, comparison of recovery patterns following large single-dose whole-body, 24:12278
effects on mammals, effects of dose rate on qualitative, 22:49481 (CONF-680410-, pp 22.1-18)
effects on mammals, effects of sex, species, and strain on recovery from single-dose, 22:38431 (UR-49-934)
effects on mammals, mathematical analysis of ionizing, 24:46650(R) (AD-702766)
effects on mammals, mechanism for recovery from mutagenic, 21:39376 (BNL-11515)
effects on mammals, mechanisms of protective effects of organic sulfur compounds against, 23:20262 (BNL-50058, pp 241-62)
effects on mammals, mutagenic, effects of age, dose, and sex on ionizing, 23:6429
effects on mammals, protective effects of amines and hypoxic agents against ionizing, 25:4539
effects on mammals, review of, 24:51027(R) (AD-704167)
effects on mammals, review of cellular and humoral factors involved in recovery from, 23:20343 (BNL-50058, pp 263-83)
effects on mammals, review of protective effects of chemicals and drugs against acute whole-body, 22:51801
effects on mammals, surgical treatment of, 23:22334
effects on mammals, whole-body latent, somatic, 25:24403
effects on man, 22:2555
effects on man accidentally exposed, bone marrow transplants for treatment of, 24:624
effects on man afflicted with myasthenia gravis following use for therapy of thymic tumors, 23:29888
effects on man and animals, diagnosis and treatment of, 24:27623
effects on man and biological materials, 24:34373
effects on man and mice, combined pathological effects of ionizing and thermal, 24:7905
effects on man and mice, mutagenic, 23:26717 (BNL-13430)
effects on man and mice, recovery from late, 22:43286
effects on man and mice, review of leukemogenic, 25:44951
effects on man and primates, hematological and immunological aspects of recovery following, 23:20261 (BNL-50058, pp 190-211)
effects on man during diagnosis and therapy in obstetrics and gynecology, hazards of, 23:22345
effects on man during diagnosis and therapy, measures for reducing, 24:36765
effects on man during space flight, determination of, 22:36273
effects on man during therapy of head and neck tumors, protective effects of vitamedin against, 22:43381
effects on man during therapy protective effects of taurine against leukopenic, 23:20288
effects on man during therapy, effects of pyridoxine hydrochloride on pathological, 22:4639
effects on man during therapy, protective effects of Lyoproper against, 24:34399
effects on man during therapy, use of leukocyte reduction rate to estimate protective effects on reduced glutathione against pathological, 23:24704
effects on man exposed in nuclear explosions at Hiroshima and Nagasaki, congenital malformations, cancers, and chromosome aberrations resulting from, 25:24434
effects on man exposed in nuclear explosions at Hiroshima and Nagasaki, medical study of, 25:27060
effects on man exposed to atomic bombings of Hiroshima and Nagasaki, genetic and pathological, 22:8579
effects on man following accidental exposure, facilities for treatment of, 23:858
effects on man following accidental exposure, methods for treatment of, 23:859
effects on man following accidental exposure, rules for clinical and therapeutic procedures for external, 25:18975 (CEA-N-1365)
effects on man following dental radiology, 23:24756
effects on man following exposure to fallout and medical sources, carcinogenic, 23:45935
effects on man following exposure to fallout from testing of nuclear weapons, 22:10818
effects on man following low level medical exposure, estimation of risks of carcinogenic, 24:34719
effects on man following medical diagnosis, risk of carcinogenic, 22:45535
effects on man following nuclear accidents, legal aspects of, 24:32033
effects on man following partial-body exposure during criticality accidents, 25:44953
effects on man following preoperative supervoltage therapy of bronchogenic carcinomas, 24:32126
effects on man following therapy for cervical cancer, effects of adrenal cortex exract on, 25:58035
effects on man following therapy for glandular tuberculosis during childhood, carcinogenic, 25:21924
effects on man following therapy for Hodgkin's disease, 24:34727
effects on man following therapy for Hodgkin's disease, leukemogenic, 24:48713
effects on man following therapy for malignant urogenital tumors, protective effects of cepharanthine against, 24:34389
effects on man following therapy of adenocarcinoma of endometrium, 22:45670
effects on man following therapy of benign diseases during childhood, 24:36846
effects on man following therapy of cervical cancer, pathological, 23:45938
effects on man following therapy of fibrosarcomas, pathological, 24:48725
effects on man following therapy of kidney carcinomas, pathological, 25:4712
effects on man following therapy of lymphomas, effects of treatment plan on, 24:34726
effects on man following therapy of spine, carcinogenic, 23:29889
effects on man following therapy of uterine tumors, cancerogenic, 23:41488
effects on man following therapy, antibiotics and sulfonamides for treatment of, 24:7938
effects on man following therapy, effects of age on pathogenic, 24:17157
effects on man following therapy, effects of age on, 22:45659
effects on man following therapy, evaluation of carcinogenic and leukemogenic, 22:45720
effects on man following therapy, leukemogenic, 23:29857
effects on man following therapy, pathological, 24:41998
effects on man following therapy, review of osteonecrotic, 22:45721
effects on man following therapy, tumorigenic, 22:4667
effects on man following weapon detonations in comparison to cosmic radiation, 24:14512
effects on man from luminous paints used for watch dials, 23:50559
effects on man in Central America in area of proposed sea-level canal construction by nuclear devices, 23:18005 (CONF-670503-, pp 9-22)
effects on man in Japan following therapy, leukemogenic, 24:23275
effects on man in Japan, leukemogenic ionizing, 24:31464
effects on man in relation to dose, use of Thorotrast patients to study, 23:26921
effects on man in relation to standards for allowable dose, low dose rate, 24:17017
effects on man in space, methods for protection against, 22:33916
effects on man prior to head and neck surgery, protective effects of fluorescein against, 25:16220
effects on man with gynecological tumors, combined effects of drugs on, 24:23273
effects on man, additive effects of Schistosoma infections on pathological low-dose, 25:52089 (A/CONF.49/P-142)
effects on man, additive or synergistic effects of environmental agents on ionizing, 24:9801 (CONF-690303-, pp 223-30)
effects on man, antibiotic treatment of acute, 23:22336
effects on man, antibiotic treatment of acute gastrointestinal, 23:22340
effects on man, application of basic protection standards against ionizing, 23:50553
effects on man, bibliography on ionizing, 22:17035 (NP-17232)
effects on man, biochemical and hematological evaluation of, 23:22429
effects on man, biochemical, immunological, psychiatric, and psychological studies of whole-body, 24:8007(R) (AD-692167)
effects on man, biological and physical basis for protection against ionizing, 24:41897
effects on man, blood cell transplants for treatment of, 23:22338
effects on man, calculation of equivalent dose for, 22:38288
effects on man, calculation of probability of leukemogenic, 23:10102
effects on man, carcinogenic and leukemogenic in utero, 22:51916
effects on man, chronic low-dose, 25:52230 (A/CONF.49/P-535)
effects on man, classification of, 23:48079
effects on man, classification, diagnosis, and treatment of injurious, 22:523
effects on man, conference on, 23:50452 (PHS-999-RH-33)
effects on man, control of toxic effects of combined hyperbaric oxygen and, 23:41412
effects on man, credibility of statistical inferences regarding low-dose, 25:42715
effects on man, design of protective clothing with ventilation for protection against, 23:4940(P)
effects on man, determination of, by deoxycytidine content of urine, 23:9864
effects on man, development effects of preconception exposure on leukemogenic, 24:34735
effects on man, development of biochemical indicators of, 25:42685
effects on man, development of osteoradionecrosis following therapeutic, 23:31983
effects on man, dose estimates for artificial and natural, 25:39944
effects on man, dose response during carcinogenic ionizing, 24:6129
effects on man, effects of accidental and medical exposure on carcinogenic, 22:15097
effects on man, effects of age, dose, dose rate, and sex on pathological, 25:19008 (NCRP-39)
effects on man, effects of dose and dose rate on carcinogenic, 25:29691
effects on man, effects of dose on carcinogenic and leukemogenic, 25:18971
effects on man, effects of dose on carcinogenic ionizing, 23:20408
effects on man, effects of dose on carcinogenic, leukemogenic, and mutagenic, ionizing, 23:5033
effects on man, effects of dose on genetic and somatic, 25:42692
effects on man, effects of dose on genetic and somatic, 25:42693
effects on man, effects of dose on ionizing, 23:43767
effects on man, effects of dose on pathological, 22:49328
effects on man, effects of dose on physiological responses to, 25:44841
effects on man, effects of dose on treatment of pathological, ionizing, 23:50644
effects on man, effects of dose on whole-body, 22:43457
effects on man, effects of dose rate and LET on pathological, 21:32731 (ANS-SD-4, pp 79-81)
effects on man, effects of dose, dose fractionation, and type on partial- and whole-body, 22:8595 (CONF-670305-, pp 114-27)
effects on man, effects of embryonic exposure on teratogenic, 22:565
effects on man, effects of high dose ionizing on carcinogenic, 25:4502
effects on man, epidemiology of latent, 23:50892 (PHS-999-RH-33, pp 145-52)
effects on man, evaluation of, 24:23385 (CONF-690501-, pp 731-5)
effects on man, evaluation of long-term, low-level, whole-body external exposure, 25:37889 (A/CONF.49/P-82)
effects on man, evaluation of neoplastic hazard of, 23:31982
effects on man, evaluation of risks from, 21:10914
effects on man, evaluation of studies on delayed, 25:29703
effects on man, extraregional, 22:36401
effects on man, genetic, 23:50417 (PHS-999-RH-33, pp 51-3)
effects on man, genetic, 25:37759 (A/CONF.49/P-677)
effects on man, genetic and somatic, 22:4666
effects on man, hazards from diagnostic, 24:9963
effects on man, ICRP evaluation of genetic and somatic low-dose, 25:42475
effects on man, in intermediate dosage range, 21:6661
effects on man, incidence of carcinomas following therapeutic, 25:24436
effects on man, ionizing, 21:28504
effects on man, leukemogenic, 25:26964
effects on man, leukemogenic, ionizing, 23:33902
effects on man, mathematical model for extrapolation of animal data to, 25:32461
effects on man, method for treatment of, 23:33749
effects on man, methods for evaluation of dose dependent late somatic, 25:47022
effects on man, methods for treatment of accidental acute, 24:7943
effects on man, mice, and rats, metoclopramide for treatment of, 24:6068
effects on man, mutagenic and somatic, 22:8598 (CONF-670305-, pp 289-96)
effects on man, problems in chronic, 23:50481 (PHS-999-RH-33, pp 128-38)
effects on man, problems in correlating dose with late, 25:42714
effects on man, program for handling medical problems resulting from accidental exposure during accidents in United Kingdom, 24:7944
effects on man, protection against, 23:22311
effects on man, protective effects of autologous bone marrow transplants against, 22:33870
effects on man, protective effects of butyl tolyl ether against, 25:46900
effects on man, quantitative evaluation of ionizing, associated with Project Ketch, 22:51876 (UCID-15325)
effects on man, relation of cumulative dose and cure rate to therapeutic, 22:47623
effects on man, research on chemical protection against ionizing, 23:41345 (AD-688501)
effects on man, resistance to whole-body, 23:50888 (CONF-671135-, pp 193-8)
effects on man, review of, 21:28426 (ANL-7291)
effects on man, review of carcinogenic, 23:41484
effects on man, review of carcinogenic, 24:29889
effects on man, review of clinically and morphologically demonstrable, 25:24439
effects on man, review of cytogenetic, 22:47520
effects on man, review of data on effects of dose and dose rate on leukemogenic, 25:21907 (ANL-7760(Pt.2), pp 133-53)
effects on man, review of dose-response relations in injurious, 24:29883 (DMRE-69-3, pp 60-81)
effects on man, review of effects of dose and dose rate on genetic and somatic, 25:27042
effects on man, review of effects of dose-rate on, 22:49378 (CONF-680410-, pp 17.1-25)
effects on man, review of epidemiological studies of leukemogenic, 21:26582
effects on man, review of genetic, 22:47577 (NP-17191)
effects on man, review of latent low dose, 23:38855
effects on man, review of latent somatic ionizing, 24:23393
effects on man, review of legal aspects of medical, 24:29774
effects on man, review of methods for treatment of injurious, 22:524
effects on man, review of problems in protection against pathological, 22:45583
effects on man, review of problems of protection from, 21:18155
effects on man, review of standards for epidemiological studies on, 22:10848
effects on man, review of therapeutic, 22:4651
effects on man, role of medical personnel in protection against, 22:15015
effects on man, role of physician in protection against, 23:18036
effects on man, role of stem cells in relation between carcinogenic and mutagenic, 24:34720
effects on man, somatic, 25:42712
effects on man, standards for medical evaluation of, following occupational exposure, 22:38475
effects on man, standards for medical evaluations of, following occupational exposure, 23:4924(T) (AEC-tr-6964)
effects on man, standards for protection against, 23:18032

effects on man, surgical treatment of, 23:22332
effects on man, threshold concept for carcinogenic, 25:42694
effects on man, toxic, 24:39557
effects on man, treatment of traumatic, 23:16352
effects on man, use of blood cell transplants in treatment of, 23:22339
effects on man, use of bone marrow transplants in treatment of, 23:29591
effects on man, use of capronate and trimethylacetate esters of fluocortolene for treatment of proctitis following, 24:12309
effects on man, use of chromosome aberrations for evaluating, 25:44808
effects on man, use of transplants of bone marrow, lymph node cells, and leukocytes for restoring, 24:4587
effects on manganese (II) ions in dosimetric phosphate glass, oxidative, 25:42163
effects on marine ecosystems in USSR, 23:38517
effects on marine fish, effects of temperature on toxin production by Clostridium botulinum E following, 23:18152 (CONF-681006-, pp 43-55)
effects on Marmosa chromosomes, baseline karyometrics for, 24:29732 (UCD-472-116, pp 123-4)
effects on materials as applied to dosimetry, 25:24157
effects on materials, economics and effectiveness for sterilization, 24:6159
effects on meat and poultry, bibliography on, 23:43926 (ORNL-IIC-20)
effects on meat spices, effects of, on number of bacterial spores, 23:43933
effects on meat, separation of sarcoplasmic protein fraction following, 25:21995
effects on meats and poultry, bacterial, color, and drip problems following, 23:16446(R) (COO-1689-2)
effects on meats, projection of cost benefits from, 23:18167 (CONF-681006-, pp 167-73)
effects on mechanical and electrical properties of epoxy resins, 22:50996
effects on mechanical and physical properties of thorium and thorium alloys, data tabulations of, 22:21695 (ORNL-4218)
effects on mechanical properties of bearing cage materials and retainers in liquid hydrogen, 21:36955
effects on mechanical properties of Epon 828 adhesive, 23:44026
effects on mechanical properties of Hastelloy N, 21:23612(R) (ORNL-4037)
effects on mechanical properties of metals, 22:38557
effects on mechanical properties of metals, 22:40332
effects on mechanical properties of metals and alloys at high energy, 22:23848
effects on mechanical properties of pressure vessel steels, 21:39607(R) (AD-650349)
effects on mechanical properties of reactor pressure vessel steel, in-pile, 22:19585 (NRL-6620)
effects on mechanical properties of reactor pressure vessel steels, 23:24840 (BNWL-870, pp 13.1-18)
effects on mechanical properties of steels, 21:28795(R) (BNWL-CC-510)
effects on mechanical properties of steels in prestressed concrete pressure vessel liners and wires, 23:10243
effects on mechanical properties of stress-graphitized carbon, in-pile, 23:12419
effects on mechanical properties of Zircaloy-2 tubes, 21:26869(R) (HW-83398)
effects on mechanical properties of Zircaloy-4, (E), 24:5507(R) (WCAP-3017-6090)
effects on media of low dielectric constants, ionic recombination rate of, 21:40918
effects on medical personnel, diagnosis of pathological, 22:31255
effects on megakaryocytes and platelets in man, mice, and rabbits, review of, 25:44897
effects on meiosis in animals and plants, conference on, 24:21107 (STI/PUB-173)
effects on meiosis in pollen mother cells of barley, use of squash technique for determining, 24:21132
effects on melanoma cells for use in autoimmunization, 24:48450
effects on melanoma metastases in man, combined effects of antineoplastic antibiotics and, 24:32129
effects on melt cavities in uranium dioxide, relations with exposure time and radiation type, 23:51145 (KFK-980)
effects on melt strength and extensibility of polyethylenes, 25:29099(P)
effects on melting point of curium oxide, 23:9375
effects on membrane capacitance of cultured Ehrlich's ascites and SOTs cells, effects of potassium content of media on, 24:7976
effects on membrane permeability of mitochondria and nuclei, protective effects of esculamine against, 25:16226
effects on membranes and molecular processes in cultured cells, abstracts of conference papers on, 25:32356 (CONF-690841-(Absts.))
effects on membranes of all nuclei, comparative, 24:50740
effects on mental alertness of man, low-dose ionizing, 22:47608
effects on messenger RNA during loach embryogenesis, 22:51388
effects on messenger RNA synthesis on DNA by RNA polymerase, ionizing, 24:34090
effects on metabolic processes associated with nuclear division in synchronously dividing cells of Physarum polycephalum, parameters for analysis of ionizing, 23:2740(R) (COO-78-174)
effects on metabolism in animals, review of whole-body, 21:45532
effects on metabolism in human patients following partial or whole-body exposure, 24:9903(R) (AD-693104)
effects on metabolism in man, 22:549(R) (AD-646667)
effects on metabolism in pea seedlings, effects of dose rate on, 24:12323
effects on metabolism in rats during therapy under hyperbaric oxygen, 24:4644
effects on metabolism of carbohydrates, catecholamine, and proteins, in mammals, ionizing, 22:16979
effects on metabolism of carbon-14 and tritium-labeled compounds in wounds of rats, 23:16420
effects on metabolism of carbon-14-labeled serine in mice, protective effects of homologous and isologous bone marrow transplants against lethal, 22:38196 (ORO-3635-1)
effects on metabolism of carbon-14-labeled serine in mice, protective effects of homologous and isologous bone marrow transplants against lethal, 22:38197 (ORO-3635-2)
effects on metabolism of citric acid cycle substrates by mitochondria from rat liver, 22:8457
effects on metabolism of DNA in man and rats, ionizing, 22:51478
effects on metabolism of electrolytes in intestine, acute, 22:40887
effects on metabolism of fluids and sodium in intestine of rats, protective effects of AET and cysteamine against, 22:6854
effects on metabolism of fruits and vegetable, effects of ripeness on, 23:50975
effects on metabolism of nicotinamide-adenine dinucleotide and nucleic acid metabolites in mice and rats, mechanisms for, 25:42623
effects on metabolism of nitrogen compounds in corn endosperm and seedlings following seed exposure, ionizing, 25:11309
effects on metabolism of radioprotective compounds in rats, 25:44755
effects on metabolism of sulfur compounds in rats, ionizing, 22:51485
effects on metabolism of thyroxine in rats, 24:16974
effects on metacercariae of Fasciola hepatica for use as vaccine, 25:42246(R) (PRNC-148)
effects on metacercariae of Fasciola hepatica in rabbits, chromium-51 tracer studies on pathophysiology of, 25:24310
effects on metal oxide—semiconductor structures, analysis, 22:40511 (SC-CR-68-3659)
effects on metal oxide-activated glasses, 22:12593(P)
effects on metal reactor fuels, analysis of swelling, 21:40564(R) (NAA-SR-12395)
effects on metalloorganic compounds, review on, 23:49830
effects on metals and semiconductors, review of atomic displacements in, 24:21864
effects on metals, chemical reaction rate theory of agglomeration of point defects produced in, (T), 24:49248
effects on metals, evaluation by x-ray, 21:4981
effects on metals, review of defects produced in, 22:28863
effects on metals, review of dislocation pinning in, 23:30614 (COO-1800-1)
effects on metals, structure of defects from, (T), 21:25173(T) (ANL-Trans-446)
effects on methane, effects of alkenes and oxygen on yields in, 22:35862
effects on methane, G values and mechanisms for, 25:18449(T) (ORNL-tr-2386)
effects on methane, yields and reaction mechanisms from, 23:47553
effects on methanol, effects of polycyclic aromatic additives on ethylene glycol and hydrogen yields in, 23:2350
effects on methemoglobin reduction in erythrocytes of uranium miners, 25:47017
effects on MH-1A pressure vessel, surveillance program for, 22:35561 (AD-663550)
effects on mice and rats, combined effects of skin wounds on, 24:25578
effects on mice and rats, effects of abundance and route of administration on protective effects of mexamine against, 24:27614
effects on mice and rats, effects of circadian clock on, 22:36391
effects on mice and rats, effects of, on period of rejection of skin transplant in relation to regeneration of lumphoid tissue, 24:17136
effects on mice and rats, injurious, 24:50956
effects on mice and rats, lethal, 25:39881
effects on mice and rats, protective effects of chemicals and drugs on, 22:25863
effects on mice and rats, protective effects of γ-hydroxybutyric acid against, 24:12108
effects on mice and rats, protective effects of thiamine tetrahydrofurfuryl disulfide against, 21:45724
effects on mice embryos, effects of dose rate on teratogenic, 24:875
effects on mice following amputation, neoplastic, 25:32575
effects on mice following sublethal hemorrhagic shock, lethal whole-body exposure, 25:58109
effects on mice for density distribution analysis of in vitro and in vivo colony forming cells in fetal liver, 24:32229
effects on mice in combination with open skin wounds, bacteriological studies for determining, 25:595
effects on mice in relation to pattern of stem cell repopulation following fetal liver implantation, 24:17008
effects on mice in relation to polarographic properties of organs, 23:10066
effects on mice, analysis of isoantigens from sarcomatous, 22:14965
effects on mice, carcinogenic ionizing, 25:4699
effects on mice, combined effects of skin wound on histopathological whole-body, 22:47583
effects on mice, combined protective effects of antibiotics, bone marrow, drugs, and vitamins on, 21:43454
effects on mice, combined protective effects of hexestrol and transplants of bone marrow against, 23:10021
effects on mice, development of mathematical formula for relation of dose to survival from, 21:18143
effects on mice, dynamics of recovery of hematogenic system and gastrointestinal tract following, 25:44938
effects on mice, effects of acetylcholine and histamine on hematoencepholic barrier following, 22:51968
effects on mice, effects of age and season on role of thymus in, 23:31917
effects on mice, effects of anions and cations on protective effects of AET and serotonin against, 22:17032
effects on mice, effects of anoxia on recovery from, 23:41360
effects on mice, effects of antigen-reactive mouse spleen cells in combination with sheep erythrocytes on, 25:18925
effects on mice, effects of bone marrow and spleen cell transplants on development of autoimmune anemia following, 22:36206
effects on mice, effects of bone marrow transplants on, 25:16053
effects on mice, effects of cholinolytic agents on protective effects of AET, BMEA, cystamine, and cysteine against, 22:51699
effects on mice, effects of dose on repair of mutagenic ionizing, 25:4501
effects on mice, effects of gutimine on protective effect of cystaphos, hypoxia, and mexamine against, 24:17062
effects on mice, effects of hematopoietic stem cells on lethal, 25:26952
effects on mice, effects of hyperbaric oxygen on, 22:33880
effects on mice, effects of hypoxia on, 25:26967
effects on mice, effects of oxygen and hypothermia on lethal, 25:24371
effects on mice, effects of plant mitogens on immune response following, 24:4579
effects on mice, effects of radiation-leukemia protection factor on leukemogenic, 22:31136
effects on mice, effects of strain on protective effects of bone marrow transplants against, 22:25894
effects on mice, effects of subsequent enteral administration of typhoid vaccine on, 25:46757
effects on mice, effects of transplantation of hematopoietic cells from genetically different donors on colony-forming units, 23:50881
effects on mice, estimation of frequency of mutagenic, 22:43295
effects on mice, growth of hematopoietic cells in spleen following, 23:47981
effects on mice, immunosuppressive, 24:34176
effects on mice, isolation of leukemogenic virus following, 24:644
effects on mice, leukemogenic ionizing, 23:29750
effects on mice, leukomogenic, 21:22681
effects on mice, mechanism of homologous diseases from, 21:6623
effects on mice, mechanisms in protective effects of catecholamines against, 23:50616
effects on mice, mechanisms in recovery of immune response to bone marrow transplants following lethal, 23:31673
effects on mice, modifying effects of mixtures of allogeneic and xenogeneic hemopoietic grafts on secondary effects of whole-body lethal, 25:16050
effects on mice, protective effects of AET, anoxia, cysteamine, and cysteine against, 25:29553
effects on mice, protective effects of AET, MEA, or mixtures of both against lethal, 23:48086
effects on mice, protective effects of anoxia and aminothiols against, 22:25889
effects on mice, protective effects of arecoline, Oxotremorine, and tremorine against, 22:28591
effects on mice, protective effects of bacterial lipopolysaccharides on, 25:44835
effects on mice, protective effects of biogenic amines and taurine against acute, 22:49383
effects on mice, protective effects of caffeine against lethal, 22:25914
effects on mice, protective effects of cystamine in combination with AET or serotonin against, 25:24216
effects on mice, protective effects of cysteamine against latent, 22:28606
effects on mice, protective effects of derivatives of cystamine, cysteamine, and β-mercaptopropionic acid against, 22:43378
effects on mice, protective effects of derivatives of AET and phosphorothioic acid against, 22:19396
effects on mice, protective effects of derivatives of MEA against, 22:525
effects on mice, protective effects of dose fractionation and methylprednisolone against, 25:13474
effects on mice, protective effects of hypoxia and sulfhydryl and other compounds against, 23:50615
effects on mice, protective effects of MEA and mexamine against, 22:25884
effects on mice, protective effects of methoxytryptamine and sodium phosphorothioate against fractionated, 22:49384
effects on mice, protective effects of mucopolysaccharides against, 23:10020
effects on mice, protective effects of nitrogen substituted derivatives of cysteamine against ionizing, 23:29576
effects on mice, protective effects of o-acyl derivatives of serotonin against, 25:29555
effects on mice, protective effects of pentetrazole against lethal, 22:25914
effects on mice, protective effects of pyridine and pyrimidine dithiocarbamates against, 22:28579
effects on mice, protective effects of sensitized plague vaccine against, 22:49392
effects on mice, protective effects of serum and spleen extracts against leukemogenic, 22:45646
effects on mice, protective effects of spleen cells from irradiated donors against, 24:17061

effects on mice, protective effects of tetrazole and triazole derivatives against lethal, 24:7932
effects on mice, protective effects of transplants of bone marrow and spleen cells against, 24:48702
effects on mice, review, 21:20416
effects on mice, review of genetic, 22:25819
effects on mice, review of leukemogenic, 22:49586
effects on mice, role of cyclic AMP in protective effects of AET, PAPP, 3'-AMP, 5'-AMP, and lipopolysaccharides against whole-body lethal, 25:49211
effects on mice, role of hypothermia in protective effects of sodium fluoroacetate against, 25:35163
effects on mice, statistical analysis of effects of anoxia, dose fractionation, dose rate, and LET on cellular basis for lethal, 24:12263
effects on mice, therapeutic effects of implanted spleen tissues on lethal, 25:46904
effects on mice, whole-body ionizing, 23:20345
effects on microbial population and storage life of chickens, statistical analysis of data on, 24:8033(R) (NYO-3733-8)
effects on microcircuits, 21:1704
effects on Micrococcus radiodurans, combined effects of phosphorus oxide, time, temperature, and dose fractionation on, 25:16385
effects on Micrococcus sodonensis, effects of iodoacetamide on, 22:4713
effects on microelectronic device materials, 22:10673
effects on microelectronics in telemetry transmitters, 22:204(R) (N-67-18419)
effects on microflora of man, partial-body, 23:35945 (ORAU-107, pp 65-8)
effects on microorganisms and plants in space flight of Biosatellite II and Gemini XI, 24:912
effects on microorganisms in food, 25:49334
effects on microorganisms in food, legal aspects and testing methods for ionizing, 24:32285 (STI/DOC-10/104)
effects on microorganisms in nonfood products, 21:23908 (BNL-50042)
effects on microorganisms in relation to sterilization of medical products, 25:49330
effects on microorganisms, factors influencing ionizing, 23:38913
effects on microorganisms, genetic control of, 25:27116
effects on microorganisms, mechanisms in recovery from ionizing, 23:35956
effects on microorganisms, mutagenic ionizing, 24:4594 (EUR-4249)
effects on microstructure and tensile properties of Inconel X750, 21:26869(R) (HW-83398)
effects on microstructure and tensile properties of solid-solution hardened Hastelloy X280, 21:26869(R) (HW-83398)
effects on microstructure of clad uranium carbide, 21:9250 (RFP-658, pp 38-42)
effects on microstructure of purified nuclear graphite during oxidation, in-pile, 23:12443
effects on microstructure of tungsten—uranium dioxide fuels at 1300 to 1800°C, in-pile, 24:10190(R) (BMI-1875)
effects on microstructure of uranium dioxide pellets at high temperature, in-pile, (E), 21:16661
effects on migrational activity of leukocytes of dogs, effects of blood plasma injections on, 24:27689
effects on military personnel, command guidance for, 22:49602
effects on mineral crystals containing impurities, review of color centers produced in, 24:24121
effects on mineral flotation, 21:41045
effects on mineral oils, treatment to minimize, 21:15968(P)
effects on mitochondria of rat liver, whole-body, 21:34772
effects on mitosis and survival of intestinal crypt cells of mice, effects of age and animal lethality on, 25:46993
effects on mitosis in ascites tumors and corneal epithelium of mice, effects of single and fractionated doses, 23:24733
effects on mitosis in cells, 21:28385
effects on mitosis in cells, 21:30917
effects on mitosis in Chinese hamster cell cultures, effects of cell stage on, 22:12834
effects on mitosis in cultured cells, effects of hypertonic medium on inhibitory, 22:49178(R) (ORO-3546-6)
effects on mitosis in cultured mammalian cells, review of ionizing, 21:45840
effects on mitosis in Ehrlich ascites tumor cells in mice, effects of Complamin on, 23:38771
effects on mitosis in endothelium of blood vessels of rabbits, 23:29770
effects on mitosis in fibroblasts of chick embryo, 100,000 R ionizing, 24:34594
effects on mitosis in kidney cells of mice, whole-body, 25:8763
effects on mitosis in spleen of mice, combined effects of skin wounds on whole-body, 23:29791
effects on mitosis in tumor cells in vitro, combined effects of complamin on ionizing, 23:10012
effects on mitosis of root cells of Vicia faba, effects of DNA on, 23:12237(T) (AEC-tr-6646/4A, pp 77-81)
effects on mitosis, bio-mathematical models for analysis of, 22:4564 (N-67-18203)
effects on mitosis, theory for mechanism of inhibitory, 25:44884
effects on mitotic cycle in yeast, effects of life span of cells on, 22:31295
effects on mitotic gene conversion in yeast, 25:52039
effects on mitotic time of lymphoid cells in calves, use of tritium-labeled thymidine to study extracorporeal, 22:23619
effects on mixture of normal and deuterated butane, structure and reactivity of propyl ions from, 22:45124
effects on mixtures of methylcyclohexane with carbon tetrachloride or nitrous oxide, mechanism of, 22:103
effects on mixtures of polymerizable materials to yield thermoplastic resins with good mechanical properties, 22:45118(P)
effects on mixtures of polyvinylidene fluoride with triallyl cyanurate, 22:25438(P)
effects on mobile electron reactions in frozen solutions of sodium hydroxide, effects of solutes on, 22:33375(R) (COO-1528-26)
effects on Moessbauer spectra of dysprosium-161 admixture in polycrystalline gadolinium, 21:21050 (IAE-1221)
effects on molecular changes in nucleic acids, review on, 23:47570
effects on molecular structure of chromosomes, chemical changes from, 24:24784(R) (NAA-SR-12570)
effects on molecular structure of chromosomes, chemical changes from, 23:1991(R) (AI-AEC-12680)
effects on molecular structure of deoxyribonucleoprotein, protective effects of AET, ethyl alcohol, and mercaptopropylamine against, 22:47565
effects on molecular weight distribution of DNA solutions, 25:29470
effects on molecular weight of crystalline polypropene, 21:23916
effects on molecules, research on mechanism of, 22:8485
effects on molecules, role of multiple ionization in ionizing, 22:25402
effects on molybdenum—uranium base alloys at 550 and 645°C, 22:25133 (NAA-SR-12549)
effects on monkeys, effects of stem cell transplants on, 25:16366
effects on monkeys, protective effects of 2-(1-decylamino)ethane thiosulfuric acid against, negative results following testing of, 24:9874 (AD-692983)
effects on monocrystalline powders, design of spectrophotometers for observation of luminescence from, 21:36429
effects on monocrystals of carboxylic acids, ESR studies on positive holes from, 25:41841
effects on monocrystals of maleic acid, ESR studies on, 24:29317
effects on monolithic microelectronic circuits, transient, (E), 21:9256(R) (AD-642301)
effects on monolithic silicon integrated circuits, 21:1703
effects on monomer and polymer impregnants in cellulose and concrete, mechanical properties of products produced by, 25:55658
effects on monomers, preparation of prepolymers from, 25:21021(P)
effects on Mormoniella, mutagenic for ovarian structure, 23:41297
effects on morphological characteristics of peas, genetic, 24:12049
effects on morphological parameters of man in relation to congenital mental deficiency, 24:32261
effects on morphology and maturation time of cells in primary and metastatic Wilms' tumor in children, 25:42592
effects on morphology and RNA content of liver of mice, 23:10088
effects on morphology of blood cells, 22:12901
effects on morphology of blood platelets of rabbits, 23:10085
effects on morphology of cat brain, effects of post-irradiation time on, 23:6585
effects on morphology of chickens, whole-body, 21:28661
effects on morphology of fibers of trees growing in vicinity of reactor, ionizing, 23:45956
effects on morphology of gonads and survival of rats, protective effects of AET, antibiotics, bone marrow, MET, serotonin, and vitamin B_{12} against lethal ionizing, 22:31157
effects on morphology of human cells, 22:49605
effects on morphology of human lacrimal and salivary glands following therapy, 24:9958
effects on morphology of intestines, review of external, 22:23655
effects on morphology of mouth, effects of therapeutic doses on, 21:39458
effects on morphology of nuclei in oocytes of mice, 21:41384
effects on mortality of civilian populations after nuclear attack, 21:20325 (RM-4707-TAB(Pt.2))
effects on mortality of civilian populations after nuclear attack, 21:20324 (RM-4706-TAB(Pt.1))
effects on mortality of rats, protective effects of antibiotics against whole-body, 22:10851
effects on MOS transistors, 22:8429
effects on MOS transistors, hardening against, 23:16218 (SC-DC-68-2542)
effects on MOS transistors, mechanism of degradation, 24:33979
effects on mosquito populations, effects of mating sequence on sterile male technique for, 23:29948
effects on motility of stomach of mice, protective effects of cholinergic drugs against, 22:19358
effects on motor function of personnel, 22:38204
effects on mouse hematopoietic system and whole organism, effects of dose fractionation and rate on, 25:35218
effects on mouse spermatogonia, estimation of genetic risks from dose required for mutagenic, 25:49194
effects on mucosa and muscular layer of small intestine in rats, whole-body supralethal, 24:27697
effects on mucosa in man following therapy, protective effects of solcoseryl against, 25:13475
effects on mucosa of duodenum in developing chickens, 22:14910(R) (COO-1244-12)
effects on multiaxial-loading yield strength of A212B pressure vessel steel, 21:32931(R) (BNWL-CC-883)
effects on multiplication of Mycobacterium leprae and tuberculosis in foot pad of mice, combined effects of thymectomy on whole-body, 22:49654
effects on mutagenicity of fish sperm DNA, 21:26372
effects on mutation breeding in crop plants, 24:34262
effects on mutation production in growing barley, effects of developmental stage on, 21:26665
effects on mutation rate for sex-linked recessive lethals in mice, 23:2919(R) (ANL-7409)
effects on myelocytic cell renewel system of animals and man, 25:44895
effects on myelogenesis in mice, 21:34789
effects on myeloproliferation in dogs, 24:29866 (UCD-472-116, pp 87-8)
effects on myocardium of rabbits, effects of dose on ionizing, 23:29765
effects on myoglobin from sperm whales and tuna, effects of DPNH, EDTA, flavin mononucleotide, and pH on, 22:49183(R) (UCB-34-P-95-15)
effects on myosin solutions, effects of oxygen on, 21:20331(T) (NP-tr-1481)
effects on n-type germanium, annealing kinetics of defects from, (E), 21:18830
effects on NAD, one electron reactions in pulsed, 23:2768
effects on nails of rats, effects of dose fractionation on, 23:22412
effects on natural animal and human populations, summaries of AEC sponsored research on health and safety aspects of, 24:46593 (TID-4065)
effects on natural latex rubber, vulcanization, 22:40290 (CEA-R-3345)
effects on neck area of man following therapy, carcinogenic and pathological, 24:32252
effects on nematode larvae in herring, effects of dose and salt concentration on, 24:2857
effects on neonatal mice, effects of dose fractionation on occurrence of leukemogenic, 21:28644
effects on neoplastic and normal tissues, effects of actinomycin D on, 24:27622
effects on neoplastic diseases of man, time-dose studies on, 22:49379 (CONF-680410-, pp 19.1-40)
effects on nephron function in kidneys of dogs, in dogs, effects of uremic state on phosphate excretion following pathological, 25:10963
effects on nerve cells in cerebellar cortex of newborn rats, 21:36719
effects on nerve grafts with artery, Silastic, or vein sheaths, growth following, 22:49496
effects on nerve tissues, 25:27036 (CONF-691057)
effects on nerve transplants of rats, comparison of, with effects of azathioprine, 22:40951
effects on nerve trunk of rabbits, comparison of catgut and silk for suturing lesions following, 24:48595
effects on nerves during wound healing in dogs, 23:33876
effects on nerves of skin and muscles of rats, post-irradiation protective effects of coamid against, 24:748
effects on nervous system, 23:29814 (A-AC-82/G/L-1264(Add.1))
effects on nervous system and survival of rats, effects of dose and strain on, 22:23659
effects on nervous system in beagle dogs following radioisotope inhalation, 22:23596 (LF-38, pp 144-6)
effects on nervous system of animals and man, review of genetic and pathological, 22:8613
effects on nervous system of earthworms, effects of, on immune reactions following transplantation of body wall and coelomic cells, 24:36807
effects on nervous system of man, effects of dose on pathological, 23:6600
effects on nervous system of man, methods for studying pathological, 24:48597
effects on nervous system of personnel following occupational exposure, review of ionizing, 23:29886
effects on nervous system, ionizing, 23:31966 (A-AC-82/G/L-1264)
effects on nervous tissue following therapy of human brain and spinal cord tumors, effects of corticoids on, 25:27056
effects on neuro-muscular function of atomic bomb survivors on Hiroshima, effects of age on, 25:27053
effects on neurohypophysis of rats, effects of dehydration and rehydration on, 21:22344
effects on neuromuscular activity in frogs, role of synapse in, 22:51952
effects on neuropsychologic functions in human children, latent pathological, 22:43398 (NP-17495)
effects on neurosecretory nuclei of hypothalamus of rats, effects of adrenotropic substances on, 22:51991
effects on Neurospora and Tradescantia, combined effects of biosatellite space flight and ionizing, 23:35931 (BNL-13623)
effects on Neurospora crassa during flight of Biosatellite B, mutagenic, 23:16431(R) (ORNL-TM-2235)
effects on Neurospora, effects of weightlessness on mutagenic, 23:33666(R) (ORNL-TM-2566)
effects on neutral aqueous cysteine solutions in presence of oxygen, mechanism and yields in, 22:40117
effects on newts, effects of dose on sensitivity to pathological, 24:39420(R) (RLO-2093-2)
effects on nicotine-sensitivity of tissues of human larynx, mouth, and pharynx, 23:38858
effects on nine strains of Acinetobacter in relation to fine structure, 25:47057
effects on nitrates, mechanism of, 24:41314(R) (ORO-3660-3)
effects on nitrates, reactions of products formed by, 23:9306 (ORNL-4343, pp 62-84)
effects on nitric oxide in ethanol and tetrahydro-2-methylfuran solutions, precursors of free radicals and hydrogen in, 25:18448(R) (CEA-N-1369)
effects on nitrogen dioxide in one-dimensional flow, kinetics of, 23:211(T) (BNL-tr-223)
effects on nitrogen level in guinea pig spleen, 23:20379
effects on nitrogen mixtures with ethylene or methane, yields of hydrocyanic acid from, 23:35226
effects on nitrogen, nitrogen—oxygen mixtures, or nitric oxide, reactions of N_2^+ from, 25:51529
effects on nitrogen—oxygen system, yields from, 23:26270(R) (RPI-321-19)

effects on nitromethane in alkaline aqueous solutions, kinetics and spectra of hydroxynitromethane anion radical produced by, 22:30591(R) (RRL-2310-231)
effects on nitromethane, ESR spectral studies on free radicals produced by, 22:96(R) (RRL-2310-214)
effects on nitromethane, reactions of hydroxyl radicals in, 21:27996(R) (RRL-2310-199)
effects on nitrous oxide adsorbed on molecular sieve and silica gel, yields in, 22:37775 (BNL-50082, pp 40-78)
effects on nitrous oxide in 2-propanol solutions, effects of potassium hydroxide on yields in, 22:23034 (IA-1128, pp 78-96)
effects on nitrous oxide on Linde 13X sieves, 23:40676 (BNL-50149, pp 40-75)
effects on nitrous oxide—oxygen system, yields in, 22:30591(R) (RRL-2310-231)
effects on non-uniform populations of cells, effects of repair and selection on dose—effect curves of genetic, 25:42353
effects on nonspecific immunological reactivity in persons occupationally exposed, 21:3423
effects on normal tissues during tumor therapy, effects of dose fractionation on, 24:48648
effects on normal tissues, additive effects of antineoplastic drugs on therapeutic, 25:58077
effects on nuclear DNA of cultured cells, fluorometry of ionizing, 24:48418
effects on nuclear fuel materials, 21:15796
effects on nuclear volume of blackeyed peas, flax, and oats, effects of pretreatment with ice-water on determination of, 23:10111 (ORO-661, pp 103-27)
effects on nucleation of bubbles in superheated water, 22:10487(R) (SU-326-P-13-2)
effects on nuclei of lymphocytes and thymocytes of rats, effects of dose and incubation time on pan, 22:33756
effects on nuclei of lymphocytes, effects of therapeutic exposure on, 21:36692
effects on nucleic acid fractions in marrow of rabbits, 21:34610
effects on nucleic acids in relation to base composition, 22:47478
effects on nucleic acids of bacteria and bacteriophages, review of ionizing, 22:49251
effects on nucleic acids of mammalian cells, review of early, 22:40553
effects on nucleic acids, free radicals resulting from, 25:49099 (UCLA-12-815, pp 1-36)
effects on nucleic acids, ionizing, 21:45531
effects on nucleohistones, effects of calcium ions on, 22:45408
effects on nucleolar coefficient of lymphocytes in uranium miners, statistical study of, 23:50921
effects on nucleonic DNA content of granulocytic leukocytes in guinea pigs, whole-body, 24:603
effects on nucleoproteins in cultured human amniotic cells, cytofluorimetric studies on, 25:29709
effects on nucleoproteins, effects of protective agents on, 22:31143
effects on nucleoside phosphorylases in erythrocytes of rats, effects of dose on, 22:45508(R) (PG-Report-826)
effects on nucleosides and nucleotides, effects of chloride ion on, 23:47954 (UCLA-12-724, pp 71-87)
effects on number of epithelial cells of intestinal villi of mice, 23:29772
effects on number of immunologically competent cells in spleen of rats, effects of bone marrow grafts on, 22:40518(R) (RT/BIO-(68)3)
effects on number of leukocytes in mammals, 21:24610
effects on number of normoblasts containing Howell-Jolly bodies in bone marrow of mining personnel exposed to radioactive materials, 23:43895
effects on nutritional quality and toxicity of foods, review of ionizing, 24:23413
effects on occurrence of keratoses, 21:24499
effects on occurrence of microorganisms in water circuit of WWR-C reactor, 22:2557
effects on oil—water emulsions, 23:9419(R) (COO-1653-15)
effects on olfactory analyzer and upper respiratory tract of man, ionizing, 24:36840
effects on one locus-gametophytic system of self-compatibility in higher plants, review of mutagenic, 24:14459
effects on onions, effects of, on crop yield and size, 23:45951
effects on onions, effects of, on dogs and rats following ingestion, 22:47649 (NYO-3422-1(Suppl.)(Vol.3))
effects on oogenesis in mammals, review of effects of age, species, and stage of growth of follicle on, 25:16102
effects on optical density of mitrochondria in animal cardiac muscles, 25:35227
effects on optical density of muscle mitochondria in animals in relation to function of hypothalamo-hypophyseal-adrenal systems, low-dose, 25:592
effects on optical properties of solids, survey of, 21:26214 (CONF-650637-, pp 3-33)
effects on optical rotation in sucrose, 22:27806
effects on optical rotation in sucrose, theoretical studies on, 22:27805
effects on oral cavity and tongue of mice, protective effects of AET and PAPP against, 22:15038
effects on oral epithelium of mice, ionizing, 24:2798
effects on oranges in relation to cold weather survival, mutagenic, 25:2552(R) (ORO-2909-9)
effects on ordering in alloys, 24:10132
effects on ordering of interstitial carbon atoms in iron, (T), 25:29911
effects on organelles of mammalian and plant cells, review of, 21:45600
effects on organelles of rat liver cells, chemiluminescence and ESR studies of, 22:51401
effects on organic and inorganic materials, research on, 22:22200(R) (NYO-2962-6)
effects on organic coatings, review on, 24:11738
effects on organic compounds, ESR spectral studies on, 22:18806(R) (COO-1385-21)
effects on organic compounds, recombination of ions produced by fast-particle, 23:17473
effects on organic compounds, role of electrons, radical cations, and neutralization processes in ionizing, 24:32336
effects on organic crystals, annealing of free radicals from, 25:18473
effects on organic dielectrics, mechanism of induction of electric conductivity by, 22:42734
effects on organic electric insulation materials, 22:784
effects on organic glasses, 23:47465(R) (ORO-2968-49)
effects on organic impurities in sewage, 25:48524
effects on organic liquids, 22:42722 (BNL-50110)
effects on organic materials in waste water, 24:33722
effects on organic solids, review on radical pair formation in, 24:231
effects on organic sulfides, mass-spectrometric studies on, 25:8290
effects on organic sulfur compounds, chemical states of phosphorus-32 produced by in-pile, 23:15905
effects on organisms at cellular and molecular levels, research publications on, 23:777(R) (UR-49-935)
effects on organisms in feed and food, conference on, 24:34803 (STI/PUB-200)
effects on organisms in relation to predamage reversal fraction, effects of dose fractionation on, 24:14569
effects on organisms, criteria for development of agents and devices for protection against, 22:51875 (TID-4060(1st Ed.))
effects on organisms, effects of age and sex on, 23:31902(T) (AD-683974)
effects on organisms, facilitation of recovery from, 22:51875 (TID-4060(1st Ed.))
effects on organisms, model based on enzyme kinetics for, 25:21585
effects on organisms, protective agents against, 22:51875 (TID-4060(1st Ed.))
effects on organisms, random factors in survival curve for, discussion of, 23:48188
effects on organisms, research publications on general, 23:777(R) (UR-49-935)
effects on organisms, review of cytogenetic, 23:26746
effects on organisms, role of macrophages in initiating immune responses following, 22:43397 (EUR-4032)
effects on organisms, tables for determining statistical frequencies in comparisons of mutagenic, 25:2559
effects on organized structures and interstitial cell compartment of mesonephros of chick embryo, effects of dose on, 25:42643
effects on organoleptic properties and shelf life of cod, 24:2856
effects on organoleptic properties and storage life of trout, combined effects of ascorbic acid and vacuum packing on, 24:48791
effects on organoleptic properties and storage life of cheese and milk, 25:49331
effects on organoleptic properties of fish, 24:2853
effects on organoleptic properties of food, effects of LET on, 24:21333(P)
effects on organoleptic properties of foods, effects of low-temperature on, 22:31301
effects on organoleptic properties of seafood, 24:2854
effects on organoleptic properties of seafood, 23:35967
effects on organoleptic properties, storage life, and wholesomeness of fruits and vegetables, review of ionizing, 23:3010
effects on organophosphorus-containing pesticides, 23:2238
effects on organs and systems of man, effects of dose on pathological, 22:31256
effects on organs and tissues, effects of clonogenicity, dose, reproductive integrity, and time on tumorigenic, 25:11253 (BNL-50203, pp 154-73)
effects on organs and tumors of mice and rats, combined effects of natulan on, 22:40838
effects on organs in dogs following dose fractionation therapy on esophagus, 25:32562
effects on origin of biopolymers, 22:25790
effects on origin of life on earth, ionizing, 22:33734
effects on osmotic resistance of rat leukocytes, effects of exercise on, 23:16410
effects on osmotic stability of leukocytes of mice, effects of bone marrow or synestrol on, 22:47573
effects on osmotic stability of rat leukocytes from 1 day to 2 months following exposure, effects of season on, 24:27663
effects on ossification in hands of leukemic children following therapy, 24:48720
effects on ossification in human children following therapy of leukemia, 23:38849
effects on osteogenic potency of bone marrow of mice, 23:12020
effects on outgrowth time of Clostridium botulinum type E in haddock and petrale sole fillets, combined effects of packaging and storage temperature on ionizing, 23:24779 (TID-24881)
effects on ovarian function in man, review of ionizing, 23:18123
effects on ovaries of Beagles, effects of dose and stage of menstrual cycle on fractionated, 23:43856(R) (UCD-472-242)
effects on ovaries of man and rodents, 23:31941
effects on ovaries of mice, effects of dose fractionation on pathological, 22:33938
effects on ovaries of mice, repair of ionizing, 22:40894
effects on ovaries of rats, effects of progesterones on ionizing, 22:33945
effects on ovulation by man, effects of age on dose required for suppression of, ionizing, 25:8732
effects on oxidation and reduction of aqueous solutions of nitroalkanes, 22:30591(R) (RRL-2310-231)
effects on oxidation and reduction of platinum chloride ions, yields in pulse, 22:33383
effects on oxidation kinetics of urania spheres in dry air at 320 to 380°C, in-pile, 21:46030
effects on oxidation of 2,2,4-trimethylpentane, effects of temperature on composition of products from, 25:13040
effects on oxidation of 2-methylheptane, effects of ionol and temperature on, 23:6169
effects on oxidation of aromatic nitroso compounds in aqueous solutions, ESR spectral studies on comparison of ceric sulfate effects with, 23:11529 (BNWL-481-2, pp 127-53)
effects on oxidation of butyraldehyde in heptane solutions, 23:43362
effects on oxidation of cerium(III) in deaerated sulfuric acid solutions, effects of concentration on, 23:217 (ORNL-4306, pp 58-65)
effects on oxidation of grade A graphite, yields of gasified carbon atoms in, 22:10284
effects on oxidation of graphite by carbon dioxide, 23:19793
effects on oxidation of graphite in carbon dioxide with and without methane, comparison of thermal oxidation with, 23:11547
effects on oxidation of graphite single crystals by carbon dioxide and oxygen, 23:7569
effects on oxidation of heptane and nonane at -78 to 140°C, mechanism of hydroperoxide formation in, 22:2120
effects on oxidation of hydrocarbons, 21:23976
effects on oxidation of iron in sulfuric acid, potentiostatistical study of short-lived products from, 23:9488
effects on oxidation of phosphorous acid and its alkyl esters, review on, 22:25421
effects on oxidation of polyethylene, 22:42738
effects on oxidative phosphorylation and respiration in rat liver mitochrondria, effects of riboflavin on lethal, 25:29640
effects on oxidative phosphorylation and respiration of liver mitochondria in rabbits, effects of oxygen inhalation on, 23:6358
effects on oxidative phosphorylation and respiration in rabbit bone marrow after homotransplantation of bone marrow elements, effects of doses of 1200 to 1250 R on, 25:27019
effects on oxidative phosphorylation and respiration in liver mitochondria, 22:51385
effects on oxidative phosphorylation in animal liver mitochondria, effects of histones on whole-body, 25:29638
effects on oxidative phosphorylation in germinating cotton seeds, effects of altitude on, 24:16985
effects on oxidative phosphorylation in liver mitochondria of rats, effects of post-exposure time on effectiveness of bone marrow transplants for treatment of lethal, 25:21747
effects on oxidative phosphorylation in mitochondria of brain in rats, protective effects of galascorbin against, 23:50639
effects on oxidative phosphorylation in mitochondria of rat livers, protective effects of O-(β-hydroxyethyl)-rutoside against, 23:22348
effects on oxides, electronic states of defects produced in, 22:52864
effects on oxygen at -100°C, effects of nitrogen on ozone yields from, 23:40676 (BNL-50149, pp 40-75)
effects on oxygen redistribution in uranium dioxide fuels, 22:38642
effects on oxygen supply in tumor cells, 25:11224 (BNL-50203, pp 318-38)
effects on oxygen tension in neoplastic and normal tissues in man, 22:19382
effects on oxygen, kinetics of ozone formation in, 22:25422
effects on oxygen—trichloroethylene—water systems, yields in, 22:42701 (AD-664757)
effects on oxygen-carrying capacity of hemocyanins, 21:17954(R) (NYO-3641-1)
effects on oxygenated solutions of hydrogen peroxide, yields in, 22:30591(R) (RRL-2310-231)
effects on oxygenation in man, evaluation of polarography for detection of, 24:27603
effects on oxygenation of tumors following therapy, evaluation of, for determining optimum fractionation, 24:48648
effects on p-(phenylazo)aniline adsorbed on plates of aluminum, copper, gold, lead, or quartz, 24:13894
effects on p—n junction devices, computer program for determining, 21:34557
effects on p-hydroxymercuribenzoate binding in bacteria, 23:22446
effects on paints used in nuclear plants, 24:29379
effects on papaya, economic aspects of, 23:18158 (CONF-681006-, pp 101-7)
effects on papayas in relation to commercial demand, 23:48296 (UH-235-P-5-4, pp 9-52)
effects on papayas, effects of controlled atmosphere on shelf life following, 23:48298 (UH-235-P-5-4, pp 63-111)
effects on paper pulp, 23:19766(P)
effects on paraffin, model for electret effect in, (T), 21:27236
effects on paralysis of brachial plexus of man following therapy for breast cancer, 24:48712
effects on Paramecium caudatum relation of pyrimidine bases to, 22:51983
effects on parenchyma and stroma of transplanted tumors, protective effects of hypoxia against 2000 R and 5000 R, 24:34590
effects on parodontium of rats following trunk exposure, 25:26960
effects on parotid gland of man, following therapy of neoplasms of head and neck, 21:45806
effects on patients during and following therapy, incidence and treatment of pathological, 24:46623
effects on pattern perception by monkeys, 23:33852
effects on paws of rats, protective effects of low temperature and tourniquet on, 22:40774

effects on peanuts, effects of seed exposure on mutagenic, 23:29446
effects on peanuts, statistical analysis of mutagenic, 22:45478
effects on penetration of Clostridium into blood and organs of mammals following infection, whole-body, 24:2785
effects on pepsin, EPR study of combined effects of oxygen and temperature on, 22:28367
effects on peptic esophagitis in man, development of complications following therapeutic, 23:2892
effects on peptides and proteins, mechanism of, 23:19757
effects on perchloric acid, reactions of products formed by, 23:9306 (ORNL-4343, pp 62-84)
effects on performance of aluminum-base dispersion-type fuel plates, 23:36163
effects on performance of clad plutonium—uranium carbide fuels, 23:36283
effects on performance of mixed-oxide fuel elements with center melting, 23:36280
effects on performance of nerve heterografts in dogs, rabbits, and rats, effects of pretreatment with specific antiserum on, 22:51364
effects on performance of pyrolytic carbon-coated urania fuel particles at 1300 to 1600°C, 21:22921
effects on performance of strain gages in cryogenic and radiation environment, 22:4562
effects on performance of uranium dioxide fuels with and without plutonium dioxide additions, 21:14869 (BNWL-SA-1079)
effects on pericardium following postoperative therapy of mammary cancer, 22:6911
effects on periodontium in rats following exposure of trunk, 24:25567
effects on peripheral blood of mice, prophylactic effects of B vitamins on, 22:36331
effects on peritoneal cells of mice, whole-body x, 23:31895 (AD-464449)
effects on permeability of membranes of animal and plant cells to sodium ions, 23:29366
effects on permeability of mitochondrial membrane of mice to manganese-54, mechanism of, 25:29673
effects on permeability of nuclear membrane in salivary gland cells of butterfly larvae, 24:9753
effects on personnel at Lawrence Radiation Laboratory, routine occupational, 22:49504
effects on personnel during diagnostic and therapy procedures, protective measures against, 24:7812 (ARH-SA-54)
effects on personnel in concrete buldings in Hiroshima 200 m from bomb center, 21:39159(T) (AEC-tr-6858, pp 11-13)
effects on personnel in luminous paint factories, regulations for protection against, 22:23559
effects on personnel in nuclear industries in East Germany, regulations for protection against, 23:31808 (SZS-2/69)
effects on personnel in nuclear installations in People's Democratic Republic of Germany in 1966, effects of age and type of installation on, 23:35760(T) (ORNL-tr-2151)
effects on personnel, evaluation of occupational, 25:29711
effects on personnel, following accidental exposure, psychological, 24:7906
effects on personnel, following accidental exposure, methods for evaluation of, 24:7909
effects on personnel, legal, medical, psychological, and social aspects of injuries following accidental exposure, 24:8013
effects on personnel, legislation related to compensation for injuries caused by, in USA, 25:8697
effects on personnel, medical supervision following, 25:4523
effects on personnel, value of pre-employment medical examination for prediction of ionizing, 25:13465
effects on petroleum products, review, 21:10178
effects on pH sensitivity of aerobic bacterial spores, 24:2836
effects on phagocytic activity of neutrophil leukocytes of nuclear personnel, chronic ionizing, 22:40896
effects on phagocytosis in mice and rabbits, combined effects of alkaloids on, 21:36693
effects on phagocytosis in rats following injection of India ink, 22:23617
effects on phagocytosis in rats, effects of dose fractionation on ionizing, 23:14257
effects on pharynx and skin of man from therapy of pharyngeal cancer, effectiveness of methyluracil in treatment of, 24:4647
effects on phase transformations in barium titanates, lead titanates, and lead zirconates, 21:7372
effects on phase transitions in hydroquinone, 23:31384
effects on phosphate compounds in liver of mice, effects of diet on, 22:47580
effects on physical and physicochemical properties of solids, 22:40124
effects on physical properties and structure of solids, 21:34937(T) (SC-T-67-0936)
effects on physical properties of alloys, metals, and semiconductors, (E/T), 22:30155(R) (NAA-SR-12296)
effects on physical properties of biphenyl and terphenyl isomers and their mixtures, 22:8113
effects on physical properties of ceramic materials, in-pile, 22:19678
effects on physical properties of ceramic reactor fuels and components, review of, 22:19677
effects on physical properties of crystalline solids, 24:24784(R) (NAA-SR-12570)
effects on physical properties of crystalline solids by lattice defect production, 23:1991(R) (AI-AEC-12680)
effects on physical properties of uranium oxide (UO_2) fast reactor fuel elements, (E), 24:13546 (ANL-7571)
effects on physiological mechanisms of root growth, 22:12782
effects on physiological response of vestibular apparatus in rabbits, protective effects of aminozine, amino acids, and vitamins on, 21:16373(T) (JPRS-38272, pp 46)
effects on physiology and survival of albino rats, combined effects of heat treatment on ionizing, 22:10883
effects on physiology of bacteria surviving processing of fish meat, 23:18133 (CONF-681006-, pp 83-8)
effects on physiology of hematopoietic system in man, following therapy, 24:9956
effects on physiology of hematopoietic system in personnel, chronic low-dose ionizing, 24:9956
effects on physiology of intestines of rats, combined effects of chronic restraint on ionizing, 21:45659 (N-67-21424)
effects on physiology of kidneys of dogs, 22:33950
effects on physiology of neuro-muscular control centers in man, chronic ionizing, 23:29813 (A-AC-82/G/L-1255)
effects on physiology of vestibular apparatus in rabbits, 21:16449(T) (JPRS-38272, pp 45)
effects on pike roe during fertilization and early cleavage, 25:29659
effects on planar transistors, prediction and selection system for, 23:17883
effects on plankton in Pacific Ocean following nuclear test, mutagenic, 23:24711 (A-AC.82/G/L-1254, pp 18-23)
effects on plant breeding, conference on, 25:39824 (CONF-690974)
effects on plant chromosomes following exposure to monazite, aberrant, 25:39840
effects on plant growth, 25:32631 (AECL-3855)
effects on plant seeds, evaluation of methods for predicting effects of, on fertility, survival, and yield of seedlings, 24:23397
effects on plants following seed exposure, selection of mutagenic, 23:16272
effects on plants for disease resistance, mutagenic, 25:52256 (STI/PUB-271)
effects on plants of agricultural interest, review of, 24:9737
effects on plants, agricultural significance of mutagenic ionizing, 23:50925(R) (NYO-2043-195)
effects on plants, combined effects of space flight factors in Cosmos-110 biosatellite on ionizing, 23:12242
effects on plants, conference on mutagenic, 24:21108 (STI/PUB-182)
effects on plants, conference on mutagenic, 21:9020
effects on plants, detection of chimeric, 21:24659
effects on plants, effects of genetic factors and time on recovery from, 25:21960
effects on plants, factors affecting mutagenic, 24:50809 (NP-18424)
effects on plants, mutagenic, 25:21965
effects on plants, mutagenic, 25:32631 (AECL-3855)
effects on plants, mutagenic, 21:32609
effects on plants, mutagenic ionizing, 23:4913
effects on plants, review of ionizing, 25:10976
effects on plants, review of mutagenic, 24:41814
effects on plants, review of mutagenic, 24:41837
effects on plants, review of mutagenic, 23:26720
effects on plants, review of mutagenic, 21:41519
effects on plants, review on Russian research on mutagenic, 25:32385
effects on plants, significance to genetic selection of mutagenic, 21:4789
effects on plants, use of mutagenic, for crop improvement, 25:8635 (STI/DOC-10/119)
effects on plants, use of mutagenic, in breeding studies, 21:32605 (STI/PUB-129)
effects on plaque forming ability in bacteriophage, inactivating, 25:35259
effects on plasma protein metabolism of rats following exposure of liver, 23:26693
effects on Plasmodium berghei for vaccination of rats, 25:21612
effects on Plasmodium berghei, effects of, on infectivity in mice, 24:12014
effects on plastic deformation mechanism of extra-soft steel, 21:11269
effects on plastic medical supplies, effectiveness of sterilizing, 25:47079
effects on plastic medical supplies, sterilizing, 25:19161
effects on plastics, 22:26099 (CONF-660706-, pp 111-23)
effects on plastics, review of, 22:26098 (CONF-660706-, pp 55-61)
effects on platelet count in rats, effects of thiols on, 22:47578
effects on platinum and tungsten, 22:712(R) (CU-3551-9)
effects on plutonia—urania fuel elements, in-pile, 21:46868(R) (WCAP-3385-12)
effects on plutonium dioxide—uranium dioxide fuels, 21:24833 (GEAP-5433)
effects on plutonium-containing fuels, review on, 22:8804
effects on PM-2A pressure vessel steel, 24:21395(R) (AD-698275)
effects on pneumatically impacted plutonium dioxide—uranium dioxide fuels, 21:28860 (BNWL-356)
effects on point defects in metals, annealing mechanisms for, 21:26865(R) (HW-74679)
effects on polarization of polarized radiation targets, physical mechanism of, 21:42515
effects on polluted river waters, 23:45408
effects on poly(methyl methacrylate), protective effects of organophosphorus compounds against, 22:16587
effects on poly(vinyl chloride), review on, 25:29104
effects on polyethers at low temperatures, ESR spectral studies on, 22:8134
effects on polyethers at low temperatures, ESR studies on, 22:42720(T) (AEC-tr-6937, pp 184-91)
effects on polyethylene, dose dependence of thermoluminescence, 24:51803
effects on polyethylene, free radical decay processes in, 24:22688
effects on polyethylene, kinetics of allyl-free radical formation in, 22:12383
effects on polyethylene, physicochemical studies on products of, 22:45129
effects on polyethylene, spectral studies on decay of free radicals produced by, 22:30584(R) (COO-1088-30)
effects on polymer gel production, theoretical studies of, 22:8140
effects on polymer—wood combinations, worldwide developments in, 23:15893
effects on polymer-containing fibrous materials, worldwide developments in, 23:15893
effects on polymerization of 2-furaldehyde, effects of alkyl halides on, 25:18430
effects on polymerization of 2-methylpropene, 23:47465(R) (ORO-2968-49)
effects on polymerization of 2-methylpropene under anhydrous conditions, 22:8096(T) (AEC-tr-6908, pp 56-63)
effects on polymerization of 2-methylpropene under anhydrous conditions, 21:19693
effects on polymerization of 2-methylpropene with sulfur dioxide at -78 and -196°C, 22:4171
effects on polymerization of 2-methylpropene, effects of zinc oxide on rate of, 22:4177
effects on polymerization of 2-methylpropene, propagation rate constant for, 23:255
effects on polymerization of 2-methylpropene—styrene, fractionation of copolymers produced by, 23:49861
effects on polymerization of 2-methylpropene—styrene, polydispersity in chemical composition and molecular mass of products from, 23:28926
effects on polymerization of 2-norbornenecarboxylic acid and its copolymerization with maleic anhydride, 23:19749
effects on polymerization of 3-methyl-1-butene, 4-methyl-1-pentene, and 2-methylpropene with sulfur dioxide, 22:8098(T) (AEC-tr-6908, pp 74-8)
effects on polymerization of 3-methyl-1-butene, 4-methyl-1-pentene, and 2-methylpropene with sulfur dioxide, 22:8097(T) (AEC-tr-6908, pp 64-73)
effects on polymerization of 3-methyl-1-butene, 4-methyl-1-pentene, and 2-methylpropene with sulfur dioxide, 21:19694
effects on polymerization of 3-methyl-1-butene, 4-methyl-1-pentene, and 2-methylpropene with sulfur dioxide, 21:19695
effects on polymerization of 7-oxabicyclo[4.1.0]heptane, 23:7563
effects on polymerization of acenaphthylene, 21:24012
effects on polymerization of acenaphthylene in liquid and solid states, 22:27794
effects on polymerization of acrylamide at low temperatures, review on, 24:50412 (KURRI-TR-62)
effects on polymerization of acrylamide or trioxane, electron microscopic studies on, 22:42717(T) (AEC-tr-6937, pp 158-69)
effects on polymerization of acrylamide or trioxane, electron microscopic studies of fibrils formed by, 22:8132
effects on polymerization of acrylonitrile, 23:4704(P)
effects on polymerization of acrylonitrile and ethyl acetate or styrene with wood, 21:23908 (BNL-50042)
effects on polymerization of acrylonitrile and styrene to poly(vinyl chloride), 23:19756(P)
effects on polymerization of acrylonitrile at -78°C, effects of organic solvents and impurities on, 24:2239
effects on polymerization of acrylonitrile at 77°K, effects of magnetic fields on, 25:146
effects on polymerization of acrylonitrile at pressures of 1 to 6000 atm and temperatures of -196 to -18°C, 23:35239
effects on polymerization of acrylonitrile, methyl methacrylate, and styrene with wood, kinetics of, 22:35858
effects on polymerization of alkenes with chloroethylene, 24:11618
effects on polymerization of amides and trioxane, preparation of polyoxymethylenes by, 21:128(P)
effects on polymerization of α-methylstyrene, 23:49851
effects on polymerization of α-methylstyrene and styrene, kinetics of, 21:42981
effects on polymerization of birch and pine wood with methyl methacrylate, properties of products formed by, 21:34288 (AE-283)
effects on polymerization of butadiene to polyethylene, 23:24265
effects on polymerization of butadiene, catalytic effects of silver ions on, 22:21142(P)
effects on polymerization of butadiene, effects of additives on, 22:33387
effects on polymerization of carbon monoxide with tetrafluoroethylene, 23:4658(P)
effects on polymerization of cellulose material and vinyl monomers using alumina gel as catalyst, 23:15907(P)
effects on polymerization of chloroethylene impregnated in wood, tensile strength studies on, 22:48891(P)
effects on polymerization of chloroethylene or polychloroethylene with diene or vinyl compounds, 23:28876(P)
effects on polymerization of chloroethylene with diallyl ester of 5-norbornene-2,3-dicarboxylic acid, 22:45120(P)
effects on polymerization of crystals of vinyl compounds, 24:27119
effects on polymerization of cyclic ethers, 22:47192(P)
effects on polymerization of derivatives of methylenesuccinic acid, 22:8157(P)
effects on polymerization of dicyclohexylphosphinoborane, 21:40903
effects on polymerization of dienes with poly(vinyl chloride), 22:35860(P)
effects on polymerization of divinylbenzene and styrene on poly(tetrafluoroethylene), 24:4339

effects on polymerization of electrodeposited coatings of polycarboxylic acid resins, 24:27157(P)
effects on polymerization of ethyl acrylate on textiles, 25:10619
effects on polymerization of ethylene, 22:21105
effects on polymerization of ethylene, 22:47191(P)
effects on polymerization of ethylene and vinyl acetate, 22:35846(P)
effects on polymerization of ethylene in aqueous solutions of tert-butyl alcohol, 24:20839
effects on polymerization of ethylene in carbon dioxide medium at two dose rates, 25:6357(P)
effects on polymerization of ethylene in presence of carbon dioxide, 24:44055(P)
effects on polymerization of ethylene terephthalate in aqueous solutions of acryl- or methylacrylamide and unsaturated dicarboxylic acids, 25:10621
effects on polymerization of ethylene under pressure in presence of tert-butyl alcohol, 23:24240(P)
effects on polymerization of ethylene with propylene, 22:4213
effects on polymerization of ethylene with tetrafluoroethylene, effects of dose, solvent, and temperature on, 24:31385
effects on polymerization of ethylene, properties of polyethylene produced by, 22:37775 (BNL-50082, pp 40-78)
effects on polymerization of ethylene, properties and spectra of products of, 21:102
effects on polymerization of ethylene—propylene rubber with polypropene and vinyl monomers to produce ion-exchange membranes, 23:33234(P)
effects on polymerization of ethylenically unsaturated esters of dipentaerythritol, pentaerythritol, and polypentaerythritols with acrylic, itaconic, and methacrylic acids, 25:31958(P)
effects on polymerization of fibrous materials and plastics—wood composites, 24:3053 (STI/PUB-209)
effects on polymerization of fluoroolefins, 22:47195(P)
effects on polymerization of formaldehyde, 23:11569(P)
effects on polymerization of formaldehyde and carboxylic anhydrides to produce polyethers, 23:43343(P)
effects on polymerization of formaldehyde with butadienes, ethyl vinyl ether, 2-methylpropene, styrenes, and p-vinylanisole, 21:23908 (BNL-50042)
effects on polymerization of gaseous acrylonitrile with polyethylene films, structural studies on, 24:4333
effects on polymerization of gaseous and liquid ethylene with sulfur dioxide, 21:23908 (BNL-50042)
effects on polymerization of hexafluoropropene—tetrafluoroethylene, ESR studies on free radicals formed in, 22:21099
effects on polymerization of hydrocarbons, mechanism of, 22:40122
effects on polymerization of ion exchange resins of acenaphthylene—divinylbenzene and divinylbenzene—styrene, 22:12352
effects on polymerization of isobutyl vinyl ether, simultaneous electric conductivity measurements during, 24:11581 (JAERI-5022, pp 194-5)
effects on polymerization of isoprene in aqueous solutions of silver nitrate, 21:17684
effects on polymerization of liquid or solid dimethylketene, 21:1401(P)
effects on polymerization of low-molecular-weight polyoxymethylenes, 21:25926(P)
effects on polymerization of maleic anhydride and ether to produce cation-polymerization catalyst, 23:4657(P)
effects on polymerization of materials for ion exchangers, 22:42791
effects on polymerization of methyl methacrylate and sulfur dioxide with butadienes at low temperatures, 21:23908 (BNL-50042)
effects on polymerization of methyl methacrylate in wood, heat processes in, 24:22689
effects on polymerization of methyl methacrylate or polyester—styrene in Finnish woods, physical properties of products produced by, 24:31394
effects on polymerization of methyl methacrylate on aluminosilicate glass, 24:20831
effects on polymerization of monomers and plastics, industrial uses of, 24:18984 (CONF-691036)
effects on polymerization of monomers in concretes, 24:46287
effects on polymerization of monomers in solution, review on kinetics of, 22:21124
effects on polymerization of monomers in wood, 23:43348
effects on polymerization of monomers onto cellulose for improved fiber qualities, 23:15909
effects on polymerization of monomers with products from reactions of ethylene glycol esters of maleic acid with cyclopentadiene, 23:28877
effects on polymerization of monomers, review on developments in, 23:45324
effects on polymerization of organic acids to polyesters, 22:8161(P)
effects on polymerization of phosphonitrile chlorides, review on, 22:25421
effects on polymerization of plastics—wood, review on, 23:38004
effects on polymerization of poly(vinyl chloride) with mixed styrene—diene system, 22:35861(P)
effects on polymerization of polycrystalline tetrafluoroethylene, 23:4699
effects on polymerization of polyesters with organic acids, 22:21141(P)
effects on polymerization of polyethylene, effects of vinyl end groups on, 21:40906
effects on polymerization of polyoxyethylene glycol—styrene systems, 21:25876
effects on polymerjzation of polypropylene with dienes or acrylates, 23:19763(P)
effects on polymerization of polyvinyl alcohol with acrylonitrile, 22:47185(P)
effects on polymerization of propene, formation of foamed polymers by, 22:33408(P)
effects on polymerization of quaternary ammonium compounds, 22:8162(P)
effects on polymerization of silicone to cotton and other textiles, mechanical properties and water repellency of polymers from, 23:24264
effects on polymerization of silicones on fibers, 24:16560(P)
effects on polymerization of solid acenapthylene, uv spectral studies on, 22:33469
effects on polymerization of solid acetaldehyde at -130 and -196°C under magnetic fields of 0 to 6000 gauss, 24:36287
effects ŏn polymerization of solid acrylamide, NMR studies on kinetics of, 25:18448(R) (CEA-N-1369)
effects on polymerization of solid acrylonitrile at low temperature, reactor, 23:17485
effects on polymerization of solid acrylonitrile at low temperature, reactor and recoil-particle, 23:17497
effects on polymerization of solid trioxane, kinetics of crystallization in, 21:19704
effects on polymerization of solid trioxane, kinetics of crystallization in, 22:8107(T) (AEC-tr-6908, pp 173-82)
effects on polymerization of solid trithiane at 160 to -205°C, 21:23908 (BNL-50042)
effects on polymerization of solid vinylene carbonate, effects of temperature on mechanism and products of, 22:35840
effects on polymerization of solid-state trithiane to produce polythiomethylene, 21:28004
effects on polymerization of solids, calculations of molecular weight distribution from, 23:45323
effects on polymerization of styrene in 1-chlorobutane and tetrahydro-2-methylfuran glass, ESR spectral studies on mechanism of, 23:17394 (JAERI-5018, pp 70)
effects on polymerization of styrene under anhydrous conditions, effects of scavengers on, 22:8099(T) (AEC-tr-6908, pp 79-96)
effects on polymerization of styrene under anhydrous conditions, effects of scavengers on, 21:19696
effects on polymerization of styrene with sulfur dioxide at -196°C to room temperature, 21:30461
effects on polymerization of styrene, effects of electron scavengers on, 22:42710(T) (AEC-tr-6937, pp 75-83)
effects on polymerization of styrene, effects of electron scavengers on, 22:8125
effects on polymerization of styrene, effects of electric fields on rate of, 22:8124
effects on polymerization of styrene, effects of electric field on, 22:42709(T) (AEC-tr-6937, pp 69-74)
effects on polymerization of styrene, effects of high electric field on, 22:33411
effects on polymerization of substituted solid maleimides, 24:36288
effects on polymerization of tack-free coating on surfaces, 24:46251(P)
effects on polymerization of tetrafluoroethylene, 22:6356(P)
effects on polymerization of tetrafluoroethylene, 24:36289
effects on polymerization of tetrafluoroethylene at -20 to -70°C, 23:40779(P)
effects on polymerization of tetrafluoroethylene in chlorodifluoromethane, 22:21140(P)
effects on polymerization of tetrafluoroethylene in dichlorodifluoromethane and chlorotrifluoromethane at low temperatures, yields of high-molecular-weight products from, 24:36295
effects on polymerization of tetrafluoroethylene in gas phase, 22:33407(P)
effects on polymerization of tetrafluoroethylene with ethylene, 22:6358(P)
effects on polymerization of trichlorovinyl-p-benzoquinone with N,N-dimethyl-o-vinylaniline and vinylpyridines, 23:43336 (COO-1043-3)
effects on polymerization of trifluoroacetaldehyde in ethyl ether and dichloromethane, 23:6171
effects on polymerization of trioxane, 23:26305(P)
effects on polymerization of trioxane, 24:46252(P)
effects on polymerization of trioxane and maleic anhydride and/or itaconic acid anhydride, 22:47190(P)
effects on polymerization of trioxane in presence of polar impurities, 24:4335(P)
effects on polymerization of trioxane in presence of methylenesuccinic acid anhydride, 22:35845(P)
effects on polymerization of trioxane to yield polyoxymethylenes, 23:4703(P)
effects on polymerization of trioxane with nitrogen-containing compounds, 22:37810(P)
effects on polymerization of trioxane, physical properties of acetylated polyoxymethylene produced by subsequent, 24:31322
effects on polymerization of vinyl acetate in aqueous solutions, stability of emulsions from, 25:10594 (JAERI-5026, pp 26-34)
effects on polymerization of vinyl chloride monomers in cellulose bodies below -50°C, 23:13763(P)
effects on polymerization of vinyl ethers, 22:21108
effects on polymerization of vinyl monomers to hydrophilic polymeric substrates, 23:45317(P)
effects on polymerization of vinyl monomers with amylose, amylopectin, or starch in alcoholic media, 24:46212(P)
effects on polymerization of vinyl monomers with hydrophilic backbone polymers, 24:46249(P)
effects on polymerization of vinylene carbonate, 22:37811
effects on polymerization of water-soluble monomer, 23:28873(P)
effects on polymerization of wool with ethyl and polyethyl acrylate, pre-irradiation method for producing highly elastic fibers in, 23:288
effects on polymerization on cellulose and wood, bibliography on, 23:2313 (VDDIT-93(Suppl.1))
effects on polymerization, chain reaction method for, 25:4097
effects on polymerization, preirradiation techniques in, 22:51031
effects on polymerization, review of role of radical and ionic species in, 21:23993
effects on polymerization, review on, 25:29122
effects on polymers, 22:6342
effects on polymers, 21:40106
effects on polymers, 23:47463 (COO-1088-37)
effects on polymers as model for biological macromolecules, 23:35174
effects on polymers at 77°K, thermoluminescence, 25:30444
effects on polymers of high molecular weight, ESR studies on reactions of gases with free radicals produced by, 22:37779(T) (ORNL-tr-1969)
effects on polymers used for solidification of radioactive wastes, 23:21922 (CNAEM-61)
effects on polymers, conference on, Pittsburgh, Pa., March 29 and 30, 1966, 22:6341
effects on polymers, developments in, 22:51016
effects on polymers, effects of temperature, uv radiation, and vacuum on, 24:247
effects on polymers, thermoluminescence studies on, 23:35173
effects on polyolefins, ir spectrometric study of, 25:4118
effects on polyoxymethylene, reduction of molecular weight and increase in thermal stability by, 25:54611(P)
effects on polyphenyls, method for inhibition, 21:39711(P)
effects on polyploid plants, determination of lethal dose, 21:24388
effects on polypropene and polytetrafluoroethylene, EPR study of peroxide radical formation from, 24:13961
effects on polypropene, effects of molecular weight, oxygen content, and segmental mobility of polymer chains on, 22:33454
effects on polysaccharide content of flour, colorimetric and turbidimetric methods for detecting, 25:47075
effects on polysiloxane resins, 25:48556
effects on polytetrafluoroethylene, EPR studies on, 23:40693
effects on polytetrafluoroethylene, ESR studies on, 23:35149
effects on polyuracil, protective effects of cysteamine against, 22:51800
effects on polyvinylacetate semiconductors, electric and paramagnetic property changes from, 22:5443
effects on populations of Drosophila, review of mutagenic, 22:8509
effects on populations of fish, insects, mammals, and plants growing in or near White Oak Creek, chronic, low-level, 21:8746 (ORNL-4007, pp 43-119)
effects on populations of Hiroshima and Nagasaki, effects of shielding on, 21:34742 (USNRDL-TRC-46)
effects on populations of mice, progress report on genetic, 23:41277(R) (NYO-1979-31)
effects on populations, effects of dose fractionation on,, 22:36225
effects on porosity of uranium nitride, 23:36277
effects on porosity of vascular-tissue barriers in animals, 23:50883
effects on porphyrin complexes in aqueous solution, mechanisms of recovery from, 22:23425
effects on positron annihilation in organic crystals, 24:27120
effects on post-harvest ripening of avocado pears, 25:41833(R) (IA-1218)
effects on post-polymerization of trioxane, mechanism of, 22:10299
effects on postattack personnel, protective effects of drugs and partial-body shielding against ionizing, 21:34658 (USNRDL-TR-67-39)
effects on potassium and sodium content of brain and muscular tissues of rats, lethal and sublethal, 25:13566
effects on potassium and sodium content of yeasts, effects of, on coacetokinase activity, 24:12218
effects on potassium and sodium metabolism in ascites tumor cells, 24:34129
effects on potassium azide, yields of carbon-14-labeled products from, 23:13741(R) (COO-1620-3)
effects on potassium bromide crystals, efficiency of negative ion vacancy formation in, 24:47310
effects on potassium chloride crystals, cell design for studying transients in, 21:45145 (ORNL-4164, pp 35-45)
effects on potassium chloride, ESR observation of Frenkel-defect production by electron-hole recombination in, 24:6618
effects on potassium chromate, effects of annealing and physical state on mechanism of, 24:27125
effects on potassium permanganate solutions, effects of acidity on Szilard—Chalmers reactions produced by, 23:11545
effects on potassium transport by Ehrlich ascites tumor cells, 23:14133
effects on potatoes, plant growth following toxic, 24:32270
effects on potatoes, retention of pesticide residues following, 25:24529
effects on pre-cooked meat and gravy product, sterilizing, 25:42759(P)
effects on preleukemic aplasia in animals and man, analytic study of, 24:857
effects on premutational damage in chromosomes of Crepis capillaris, man, and mice, 24:34258
effects on prenatal development of animals and man, review of ionizing, 23:22430
effects on prenatal development of mammals, ionizing, 24:23311 (CONF-690501-, pp 1-6)
effects on preparation of 3-chloropropyltrichlorosilane from trichlorosilane and allyl chloride, 23:40766(P)
effects on preparation of aluminum—polyethylene composites, 25:37412(P)

effects on preparation of dibromodibutyltin, mathematical design of reactor for studies on, 25:48504
effects on preparation of foamed thermoplastic sheets, 25:29109(P)
effects on preparation of perfluorinated carboxylic acids from polytetrafluoroethylene wastes, 25:13035(P)
effects on preparation of sulfonic acids from alkane—sulfur dioxide—oxygen—monocarboxylic acids, 23:40765(P)
effects on preparation of thermoluminescent glass in aluminum, lithium, silicon, and terbium oxide mixture, 22:50997(P)
effects on preparations of DNA and DNP from loach sperm, effects of DNAase on, 23:24515
effects on pressure vessel steel as function of fracture toughness, method for measuring, 21:22942(R) (COO-1477-7)
effects on pressure vessel steel, effects of annealing on, 21:22897 (WAPD-T-1834)
effects on pressure-induced polymerization in radical-type polymerization, 24:27121
effects on primary and secondary antibody responses in chondrichthyes, 23:2739 (CALT-642-X-9)
effects on primary immune response of grafted cells of chicken embryos, 22:19276
effects on processes at molecular level, 25:29132(R) (NYO-3558-24)
effects on processing of domestic and industrial sewage, review on, 25:48532
effects on processing of plastics—wood, review on, 22:35866
effects on production of 2,2'-bithiophene, 2,3'-bithiophene, and 3,3'-bithiophene from liquid thiophene, 23:43350(P)
effects on production of androgenetic haploid hybrids in fish, 22:21584
effects on production of antibodies by animals, detection of, by Combs test, 23:29407
effects on production of botulinum toxin in processed fish, methods for evaluating hazards of, 25:16395
effects on production of Clostridium botulinum in packaged seafood, effects of species on, 25:24503
effects on production of dicarboxylic acids, 22:21137(P)
effects on production of foamed polyolefins, 21:17692(P)
effects on production of foamed polystyrene moldings, 23:2323(P)
effects on production of free radicals in single crystals of thymidine, 24:46586
effects on production of hydrocarbons, 22:33458(P)
effects on production of organic compounds, review on, 24:20808
effects on production of poly(vinyl chloride) resins, 22:21144(P)
effects on production of polymers of tetrafluoroethylene, 22:45116(P)
effects on production of radiation-sensitive telomerized diacrylyl polyamides, 24:16552(P)
effects on production of radiation-sensitive telomerized diacrylyl polyamides, 24:16553(P)
effects on production of sheets or films of foamed polyethylene, 21:30481(P)
effects on production of thymidine by mammalian cells, autoradiography studies on, 25:15992
effects on production of toxin by Clostridium botulinum in shrimp, effects of 100 and 200 Krad dose and temperature on, 24:12339(R) (ORO-3698-3)
effects on production of triplet state molecules, review on, 24:31380
effects on productivity of agricultural plants, mutagenic, 25:51962 (A/CONF.49/P-694)
effects on proliferation of cultured antigen-stimulated spleen cells from mice, dose-response curve for, 23:50820
effects on proliferation of fibroblasts and survival of mice, combined effects of staphylococcus toxin on, 23:20361
effects on proliferation of intestinal and tumor cells, 24:12242 (STI/PUB-186)
effects on proliferation of phagocytes in tuberculous lesions of rabbits, tritium tracer study, 25:27001
effects on proliferation of rhabdomyosarcomas, combined effects of antineoplastic drugs on, 22:33876
effects on properties of beryllium oxide and uranium dioxide, methods of determining, 22:767 (GEMP-557)
effects on properties of lubricants, reactor, 23:17466
effects on properties of medical supplies and pharmaceuticals, effects of dose on sterilizing, 24:51119
effects on properties of plutonium carbide—uranium carbide and plutonium dioxide—uranium dioxide reactor fuels, 23:48571(R) (EIR-146)
effects on properties of polyethylene near melting point, 21:39707
effects on properties of polymers of ethylene oxide, 24:4316(P)
effects on properties of radiopolymerized hydrocarbon—styrene lubricants, 22:785(P)
effects on properties of reactor fuel materials, review of, 23:9262
effects on properties of reactor pressure vessel materials, availability of data on, 22:35658(R) (AD-663879)
effects on properties of solids, review, 21:21057 (ZFK-WF-29)
effects on properties of two-step recovery diodes, 22:414 (AD-648380)
effects on proportion of lethal second chromosomes in Drosophila melanogaster, 21:28592(R) (NYO-3096-21)
effects on protein composition of blood serum of rats, combined effects of inflammation on, 23:24531
effects on protein content in crops, mutagenic, 25:24111
effects on protein content of corn and peas, mutagenic, 25:24110
effects on protein fractions in RS-1 tumors, protective effects of hypoxia against, 24:34591
effects on protein fractions of meat, identification of radiation processed meats by, 25:49327 (EUR-4618)
effects on protein metabolism in rats, 25:24363
effects on protein metabolism in synchronous cultures of Chinese hamster cells, relation of, to reproduction, ionizing, 22:25713 (COO-78-163, pp 64-125)
effects on protein synthesis in dividing cells, effects of, on inhibition of mitosis, 23:2740(R) (COO-78-174)
effects on protein synthesis in endocrine gland, combined effects of 19-nor-D-homotestosterone and somatotrophic hormone with, 21:28602
effects on protein synthesis in endocrine glands of animals, ionizing, 24:7734
effects on protein synthesis in liver and spleen cells of rats alone and in combination with immunization, 25:13376
effects on proteins in blood serum of dogs and rats, whole-body ionizing, 22:52004
effects on proteins of eggs, fish, and meat, immunoelectrophoretic and starch gel electrophoretic studies on, 25:26631
effects on proteins, use of specific protein—protein interactions in studies of, 25:42303
effects on proteolytic activity in blood of mice, whole-body, 22:19261
effects on Proteus population in intestine of rats, whole-body, 22:6909
effects on proton relaxation time in lanthanum magnesium double nitrate doped with neodymium, 21:42513
effects on pulmonary arterial perfusion in man following therapy of thorax area, 24:6135
effects on pulmonary lymph flow in dogs, 25:39916
effects on pupation of Ephestia, effects of ecdysone on, 23:5012
effects on purified propylene oxide, 21:30440(R) (COO-1088-27)
effects on pyridine adsorbed on zeolite, EPR study of effects of zeolite cation on, 24:11593
effects on pyrimidine bases of nucleic acids of Escherichia coli, ionizing, 22:51389
effects on pyrolytic carbon dimensions, measurement of, 21:1964(T) (ORNL-tr-1347)
effects on pyrolytic-carbon-coated particle fuels, 21:19381(R) (ORNL-4036)
effects on pyrolytic-carbon-coated sol-gel uranium dioxide microspheres in high burnup, 21:36945
effects on pyrolytic-carbon-coated sol-gel uranium dioxide particles, 21:36909
effects on quality and shelf life of food, review of, 24:25623
effects on quality of agricultural plants, mutagenic, 25:52014 (A/CONF.49/P-192)
effects on quality of polymer moldings, 23:4653(P)
effects on quinone content of tumors, effects of phenol and quinonoid compounds on, 24:34411
effects on rabbit eyes, morphology of combined effects of ammonia and, 25:32585
effects on rabbit peripheral blood following ingestion of exposed food, 25:44920
effects on rabbits and rats, transplantation of cells following whole-body, 24:2792
effects on rabbits with mechanical liver injury, effects of bone marrow transplants on recovery from, 24:34405
effects on rabbits, effects of bone marrow transplants on recovery following combined liver injury and, 25:27005
effects on rabbits, effects of phospholipid extracts from tissues of, on growth of Ehrlich tumor cells, 23:16240
effects on rabbits, effects of starvation and vitamins on recovery from combined nerve injury and, 23:29795
effects on rabbits, effects of, on hematopoiesis in recipient rabbits following injection of serum from exposed donors, 24:51029(T) (ANL-Trans-852)
effects on rabbits, protective effects of drugs and typhoid vaccine against, 22:49382
effects on rabbits, protective effects of transplants of bone marrow preserved by freezing on, 24:34402
effects on rabbits, role of endotoxins in hemorrhagic syndrome during acute, 23:50856
effects on radical formation at low temperatures in solid aromatic compounds, 24:9374
effects on radical formation in ethylene polymers, 21:25889
effects on radical polymerization of styrene, effects of solvent on, 24:38929
effects on radioinduced graft polymerization of poly(2,3-epoxypropyl methacrylate) on polyethylene, 24:16600
effects on radioinduced polymerization of nitroethylene with tetrahydro-2-methylfuran at 77°K, spectral studies on, 21:19703
effects on radioinduced polymerization of nitroethylene with tetrahydro-2-methylfuran at 77°K, spectral studies on, 22:8106(T) (AEC-tr-6908, pp 157-72)
effects on radioisotope-exposed personnel, methods for determining, 23:50576
effects on radiosensitivity of tumors following repeated exposure, 25:602
effects on Rana tadpoles, protective effects of cystamine against ionizing, 23:48203
effects on rat bone marrow, role of endothelial and reticular cells and lymphocytes in regeneration following, 25:16341
effects on rat lungs, effects of cortisone with and without tetracycline on, 25:32546
effects on rat thymus, formation of lymphocytes from thoracic duct following, 24:4680
effects on rat tissues and organs, mechanism of protective effects of adrenalin, AET, and cysteine against in vitro and in vivo, 25:42523
effects on rate of cell reproduction in neoplastic and normal tissues, effects of dose fractionation on, 25:52163
effects on rate of mutations for sex-linked lethals and detrimentals in mice, design of test system for determining, 25:37760 (ANL-7770, pp 116-18)
effects on rate of polymerization of α-methylstyrene and styrene, 22:8101(T) (AEC-tr-6908, pp 117-29)
effects on rate of polymerization of α-methylstyrene and styrene, 21:19698
effects on rate of reproduction of Drosophila melanogaster, protective effects of shielding against, 22:17045
effects on rate of urinary creatinine excretion in animals, ionizing, 23:50293
effects on rats in relation to hematological criteria, 23:16382
effects on rats, antibiotics, electrolytes, and glucose for treatment of acute, 23:43806
effects on rats, antigenic stimulation following, 23:50375
effects on rats, effects of corticosteroid content on course of sickness following, 23:14273
effects on rats, effects of ether anesthesia on lethal, 22:8583
effects on rats, effects of monoiodoacetic acid on, 22:45618
effects on rats, effects of space distribution of absorbed energy on, 25:24360
effects on rats, effects of vitamin B group on recovery following whole-body, 23:48234
effects on rats, effects of, on respiratory response to morphine, 22:21615
effects on rats, protective effects of AET or serotonin against sublethal fractionated dose, 25:26807
effects on rats, protective effects of AET, cystamine, and cysteamine against, in relation to content of endogenous serotonin, 23:26822
effects on rats, protective effects of caffeine against lethal, 22:25914
effects on rats, protective effects of ellagic acid against, 24:44536
effects on rats, protective effects of pentetrazole against lethal, 22:25914
effects on rats, protective effects of quaternary ammonium salts against, 22:25876
effects on rats, protective effects of selenium compounds against ionizing, 25:4545
effects on rats, protective effects of sulfhydryl groups against damaging, 25:35213
effects on rats, protective effects of thymus extract against lethal, 22:33844
effects on rats, regeneration of erythropoiesis following, use of iron-59 to study, 24:840
effects on rats, relation of toxins to pathological, 25:52197
effects on rats, sensitizing effects of different concentration of leucodelphinidin on, 24:34410
effects on reaction between hexafluoropropene or tetrafluoroethylene and perfluoroalkyl iodide, 23:11568(P)
effects on reaction of 2-propanol with ethylene to produce tertiary alcohols, 22:51035(P)
effects on reaction of alcohols and olefins to yield higher alcohols, 21:40933(P)
effects on reaction of ethylene and hydrochloric acid, simultaneous production of 1-chlorobutane and chloroethane by, 22:35849(P)
effects on reactions between hydrocarbons and nitrogen, effects of oxygen on production of hydrogen cyanide from, 24:13963
effects on reactions of alkyl or cycloalkyl hydrocarbons and carbon tetrachloride to yield benzyl chloride derivatives, 23:19715(P)
effects on reactions of ammonia to produce hydrazine in presence of rare gas, 21:25925(P)
effects on reactions of ammonia with methane, production of polypeptides from, 25:46505(P)
effects on reactions of carbon-11 recoil atoms in nitrogen—oxygen systems, 22:33453
effects on reactions of dialkyl phosphite with hexafluorocyclobutene, 23:6166(P)
effects on reactions of hydrocarbons with phosphorus chlorides, review on, 22:25421
effects on reactions of solid surfaces with adsorbed phases in heterogeneous systems, 22:21136
effects on reactions of urea of thiourea with hydrocarbons to yield amides, 23:4656(P)
effects on reactor fuel elements, methods for mechanical analysis of, 22:25145
effects on reactor fuel materials, review of, 21:2902
effects on reactor fuels and materials, 21:30307
effects on reactor materials, 22:19646
effects on reactor materials, 21:14127(R) (NP-16420)
effects on reactor materials, development of damage model for determination of, 25:32751(R) (HEDL-TME-71-43)
effects on reactor materials, methods of testing, 23:24409
effects on reactor materials, USSR research on, 25:52393(T) (JPRS-53800)
effects on reactor metals, materials selection for studying, 21:26865(R) (HW-74679)
effects on reactor personnel following accidental exposure at Vinca "Zero Power" reactor, nuclear hematological and radiobiological data on pathological, 24:48716
effects on reactor structural and cladding material, 21:36894
effects on reactor structural materials, conference on, 22:19595
effects on reactor structural materials, review of, 23:9264
effects on reactor structural steels, 23:24942(R) (BNWL-870)
effects on reactor structural steels, 21:38750
effects on reactor-core graphite oxidation by impurities, 22:9993 (EUR-2762(ANNEX))
effects on rearrangement of o-nitrobenzaldehyde, 24:13893
effects on recipient mice, transplantation of rat myeloid cells following, 25:10992
effects on reclamation of butyl rubbers in diaphragm rubbers, 24:9377

effects on recovery from radical neck dissection in man, presurgical, 24:25543
effects on rectum in man following therapy for cervical carcinoma, carcinogenic, 25:24445
effects on reducible substances in aqueous solutions, analytical method based on, 23:15818(P)
effects on reducing sugar, total soluble solids, total sugar, and vitamin C content in potatoes during subsequent storage, 25:41833(R) (IA-1218)
effects on refractory bcc metals, review of recovery of defects after, 22:24375 (BLG-424)
effects on refractory moderator materials, 21:40564(R) (NAA-SR-12395)
effects on regenerating liver of mice and rats, bibliography on, 24:51023 (AAEC/LIB/Bib-243)
effects on regeneration of bone marrow in mice and rats, 22:47617
effects on regeneration of planarians, role of type I cells in, 25:44890
effects on regeneration of skin transplants, whole-body, 21:22761
effects on regeneration of transplanted adrenocortical tissues in rats, 25:24343
effects on release of leukemogenic viruses in mammary glands of mice, 24:51072
effects on reliability of transistors, 23:16213 (CEA-CONF-1145)
effects on removal of ferrous iron compounds from acidic mine waste waters, 25:13036(P)
effects on renal transplants in dogs and man, effects of dose on ionizing, 23:2750
effects on renogram following aortography, 23:12175
effects on repeated radiation sickness from dogs, clinical symptoms of, 21:36662
effects on replicating mechanism of DNA of microorganisms, symposium on ionizing, 23:48267
effects on reproduction of animals, 23:29294 (CONF-670649-20)
effects on reproduction of carp, chronic low-level, 22:6772 (ORNL-4168, pp 61-118)
effects on reproduction of goitrogen-stimulated thyroid cells in rats, 22:38376
effects on reproduction of hematopoietic cells in hamsters and mice, 25:35217
effects on reproduction of insects, in comparison with effects of chemicals, 24:32170
effects on reproduction of lymphoma cell cultures from mice, dose-response curves for ionizing, 24:6099
effects on reproduction of Mediterranean fruit flies, field evaluation of, in Capri, 22:34004
effects on reproduction of neoplastic cells, combined effects of drugs on, 22:6846
effects on reproductive capacity and survival of insects in relation to population control, 22:10881
effects on reproductive capacity for controlling insect populations, 24:32297
effects on reproductive capacity of Aedes aegypti, review of genetic control in, 22:52108
effects on reproductive capacity of corn borers and weevils and medflies, 24:39594 (CEA-R-3980)
effects on reproductive capacity of Dermatobia hominis in Central America, 24:34806
effects on reproductive capacity of endothelia cells in blood vessels of rabbits, ionizing, 24:27694
effects on reproductive capacity of grain insects, 25:29750
effects on reproductive capacity of insects, 24:34802 (STI/PUB-184)
effects on reproductive capacity of insects, 25:27128 (CONF-680112-, pp 1-7)
effects on reproductive capacity of insects, 23:43934
effects on reproductive capacity of insects for population control, USAEC program on, 24:32298
effects on reproductive capacity of insects, conference on, 24:32287 (STI/PUB-185)
effects on reproductive capacity of insects, in comparison with effects of chemicals, 24:32326
effects on reproductive capacity of insects, review of research on, in France, 24:25630
effects on reproductive capacity of insects, review of, 25:27129 (CONF-680112-, pp 123-8)
effects on reproductive capacity of lepidopterous pests, 25:47070 (STI/PUB-281)
effects on reproductive capacity of livestock insects, review of, 24:34809
effects on reproductive capacity of male May cockchafers, ionizing, 22:12949
effects on reproductive capacity of Mediterranean fruit fly, 25:24507
effects on reproductive capacity of Mediterranean fruit fly, review of research programs on, 25:29738
effects on reproductive capacity of Mediterranean fruit fly in Spain, 25:29739
effects on reproductive capacity of Mediterranean fruit fly for eradication in Morocco and Tunisia, 25:24512
effects on reproductive capacity of onion flies, 25:29748
effects on reproductive capacity of screw-worm flies in USA, 24:34810
effects on reproductive capacity of screw-worm flies in relation to population dynamics in Mexico and Texas, 25:27152
effects on reproductive system of Indian catfish, 25:21858
effects on residue from Valencia oranges, effects of, on methoxyl content, viscosity, and yield of pectins, 25:8823
effects on resins, effects of dose rate on, 23:9419(R) (COO-1653-15)
effects on resistance of hemoglobin to phenylhydrazine acetate following exposure of erythrocytes in vivo and in vitro, 23:38486
effects on resistance of hybrid mice to parental grafts of hematopoietic and lymphoma cells, 21:45595 (ORNL-P-3322)
effects on resolution and sensitivity of scintillation detectors during brain scanning, scattered, 23:35786 (ACRH-31, pp 25-44)
effects on respiration and storage life of Alfonso mangoes, effects of combined skin-coating and treatment with air, carbon dioxide, or nitrogen on, 21:41527
effects on respiration and synthesis of ATP in rat thymus nuclei, protective effects of cysteamine against, 23:50632
effects on respiration in fruits and vegetables, 21:9036 (NYO-3274-4)
effects on respiration in rat tissues, combined effects of ethanolamine with, 21:22326
effects on respiration of yeast, effects of dose on, 22:26001
effects on respiration rate in wheat seedlings, 25:55348
effects on respiratory metabolism of barley seeds, ionizing, 22:49187
effects on respiratory tract of dogs and hamsters following chronic inhalation of simulated uranium mine atmosphere, 24:50674(R) (BNWL-1306(Pt.1))
effects on response of animals to anesthesia, effects of trichlorotriethylamine on, 22:8624
effects on response of chicks to light and sound, effects of time of embryonic exposure on, 22:45658
effects on response of intact mammal, 21:34738 (BNL-11510)
effects on response of rats to saccharin, effects of circadian rhythm on, 22:49488(R) (ORO-2903-43)
effects on restructuring kinetics of plutonium dioxide—uranium dioxide capsule, 23:46105(R) (BAW-3714-14)
effects on results of thromboelastographic examinations among uranium mining personnel, chronic, 25:58144
effects on retention of stomach content in rats, effects of irradiation site on, 22:28688
effects on reticulation of elastomers, industrial uses of, 24:18984 (CONF-691036)
effects on retina, lethal and sublethal, 25:26902
effects on riboflavin and vitamin C content of legumes during germination, 25:51965 (A/CONF.49/P-147)
effects on rice for breeding purposes, conference on mutagenic, 24:41799 (STI/DOC-10/86)
effects on rice, conference on mutagenic, 24:39480 (STI/DOC-10/102)
effects on rice, genetic studies following mutagenic, 24:21140
effects on ripening and storage life of fruits, 23:10150
effects on RNA content in cells of rat lens, spectrophotometric determination of, 21:32766
effects on RNA synthesis in erythrocytes of frogs, ionizing, 23:12024
effects on RNA synthesis in liver of rats, effects of calf thymus, histones, dactinomycin, and trypsin on, 25:16027
effects on RNA synthesis in rat livers, use of DNA x RNA hybridization technique for determining, 25:26641
effects on rodents, correlation of preirradiation ethanol-induced body weight changes with resistance to lethal ionizing, 23:38766(R) (AD-686733)
effects on Saccharomyces vini, effects of anaerobic fermentation and iodoacetate on recovery from, 22:26004
effects on Saccharomyces vini, protective effects of nutrient content of media against, 22:19359
effects on salivary glands and skin of man following therapy of benign neoplasms, 23:29833
effects on Salmonella growth in chicken meat, effects of high temperature on, 23:18169 (CONF-681006-, pp 185-8)
effects on Salmonella in chicken meat, effects of temperature on ionizing, 24:34826
effects on Salmonella in processed powdered eggs, 25:611
effects on Salmonella typhimurium in egg powder, effects of dose and storage time on, 25:24472
effects on salt surrounding simulated radioactive waste in Project Salt Vault, (E), 25:32193 (ORNL-4555, pp 161-256)
effects on SAP cladding of fuel elements in HWOCR, 22:627 (AI-CE-72)
effects on sarcoma incidence in man, therapeutic, 25:42705
effects on sarcoma transplants in rats, effects of dose fractionation on, in relation to radiosensitivity, 24:34703
effects on sarcomas in rats, effects of drugs on, 22:33878
effects on sarcomas, effects of hydroxyurea on, 24:34413
effects on sarcomas, effects of tumor type on therapeutic, 22:51755
effects on sarcomas, sensitizing effects of catechols and flavonoids on, 24:34408
effects on sarcomas, sensitizing effects of leucoanthocyanidins on, in relation to radiosensitivity, 24:34409
effects on scintillation of organic phosphors, kinetic study of, 22:11495(T) (UCRL-Trans-10166)
effects on seafood, effects of, on growth and toxin production by Clostridium botulinum, 23:24778 (TID-24880)
effects on seafoods, evaluation of programs for, 23:18178 (CONF-681006-, pp 253-5)
effects on secondary structure of DNA, effects of dose on ionizing, 23:29368
effects on secretion of adrenaline and noradrenaline in radiation personnel, ionizing, 24:6054
effects on seed cultivation, effects of environment, mutation stability, and reproductive capacity on mutagenic, 22:40621
effects on seed, analysis and model for ionizing, 23:6416
effects on seedlings, kinetics of radiotoxin formation following ionizing, 24:27611
effects on seeds of barley and maize, effects of heavy water and oxygen on, ionizing, 23:16356
effects on seeds of Crepis capillaris, effects of age on mutagenic ionizing, 23:50442
effects on seeds, effects of age on genetic, 22:45483
effects on seeds, role of free radicals in, 22:23424
effects on seeds, spores, and strand breaks in DNA, effects of OER on, 22:51396
effects on segmentation time of neutrophils in man, dogs, and rats, whole-body, 21:22719
effects on selection of materials for sodium-cooled reactor components, 22:8269
effects on selective destruction of hypoxic cells, fractionated, 22:43349 (UCSF-10-P-2-39, pp 125-260)
effects on selenium hexafluoride, spectral studies on, 21:27996(R) (RRL-2310-199)
effects on selenium-75 incorporation in diaphragms, livers, and tumors in rats following incubation in sodium selenites, 25:13354
effects on selenourea in aqueous solutions, ionizing, 25:4546
effects on semiconductor devices, 21:39653(R) (AD-650103)
effects on semiconductor devices, 21:39701(R) (AD-650195)
effects on semiconductor III-V compounds, review, 24:24132
effects on semiconductor materials and devices, 23:17853(R) (AD-672812)
effects on semiconductor materials and semiconductor devices, 21:31107(R) (AD-643783)
effects on semiconductor transistors, reduction of deteriorating, 22:8431(P)
effects on semiconductor-controlled rectifiers, transient, 21:16259
effects on semiconductors, 21:6884 (ORNL-P-2515)
effects on semiconductors, calculation of yield and Fano factor of electron—hole pairs from, 21:46410
effects on semiconductors, conference on, 22:36986
effects on semiconductors, EPR and optical absorption studies of, review, 22:37001
effects on semiconductors, Fano factor for electron—hole pair production in low-energy region, (T), 24:49247
effects on semiconductors, generalized model for predicting, 21:6367(R) (AD-635228)
effects on semiconductors, kinetics of vacancy—impurity complex buildup in, (T), 25:49992
effects on semiconductors, mathematical simulation of, 23:39529 (AD-680001)
effects on semiconductors, method for measurement of energy levels and introduction rates of defects from, (E), 22:37008
effects on semiconductors, microscopic nature of stable defects from, 22:39158(R) (N-68-17349)
effects on semiconductors, model for induced electron-hole pairs from, 22:20060
effects on semiconductors, relations with annealing, 21:5016(R) (N-66-28479)
effects on semiconductors, review, 21:42171
effects on semiconductors, review of identification and properties of defects from, 21:40097
effects on semiconductors, review of important unanswered questions in, 25:56332
effects on semiconductors, review of theory of defects in, 25:59131
effects on semiconductors, summary of conference on, 22:37022
effects on semiconductors, theory, 24:28411
effects on semiconductors, use of pulsed electron Van de Graaff accelerators for, 21:37979
effects on sensitivity of cardiac muscle of rats to anoxia, 24:34662
effects on sensitivity of man to pharmaceuticals, 25:58142
effects on sensitivity of man to thiopental following therapy of brain tumors, 23:31976
effects on sensitivity of mice to botulin toxins, 22:30985
effects on sensitivity of muscles and nerves to succinylcholine in rabbits, whole-body, 22:445
effects on sensitivity of thrombocytes to ultrasound, protective effects of methionine against, 23:2873
effects on sensitivity of vestibular analyzer in, of rabbits in relation to incidence of nystagmus, 22:36364
effects on separation of nitrobenzene from hexane and aqueous triethylamine solutions, 22:48877 (JINR-P13-3943)
effects on serotonin content of tissues of rats, 23:31931
effects on serum enzyme values in man following therapy of carcinomas, 23:20096
effects on serum lipids and proteins in rats, effects of dose on whole-body, 24:48433
effects on serum protein fractions in prenatal rats, damaging, 25:21595
effects on serum proteins of dogs, chronic, 22:47452
effects on serum proteins of man, electrophoretic analysis of therapeutic, 22:6839
effects on service life of Hastelloy N equipment in MSRE, 21:38552
effects on sewage, 25:48523
effects on sewage and waste water, review on potential role of, 25:48533
effects on sewage microorganisms in relation to operation of contaminated facilities, 23:7997 (LA-DC-10003)
effects on sewage sludge and waste waters, 24:31427
effects on sex chromosomes in guppy spermatogonia, frequency of aberrant exchange, 24:23160
effects on SH group content of human serum following therapy of esophageal cancer, effects of dose fractionation on, 24:34128
effects on shape of fuel spheres, equipment for measuring of, 21:2895 (JUL-357-RG)
effects on sheep and swine, effects of dose rate on recovery from, 23:29729 (AD-678330)
effects on sheep, chemical composition of urine following ionizing, 24:12235 (ORO-672, pp 66-7)
effects on shelf life of bread, 25:41833(R) (IA-1218)
effects on shelf life of foods, 23:8101
effects on shelf life of foods, review of, 25:13623
effects on shelf life of Gulf shrimp, effects of shipping conditions on, 23:45981(R) (ORO-669)
effects on shelf life of haddock fish, effects of handling techniques on, 22:52115

effects on shelf life of Hawaiian fruits, 23:48294 (UH-235-P-5-4)
effects on shelf life of Pacific seafood, effects of shipping conditions on shelf life following, 23:41519 (TID-24317, pp 35-58)
effects on shelf life of seafood in Italy, 24:2864
effects on shelf life of seafood, effects of packaging materials and methods on, 23:41518 (TID-24317, pp 9-34)
effects on shelf life of strawberries, effects of refrigeration on, 23:41515(T) (ORNL-tr-2160)
effects on shelf-life fruits and vegetables, ionizing, 23:16458
effects on shelf-life of milk, review of, 23:18179(T) (ORNL-tr-3004)
effects on Shigella flexneri, protective effects of ethanol, β-mercaptoethanol, and polyhydric alcohols against ionizing, 23:50563
effects on shipping quality of oranges, low-dose, 22:49662(R) (ORO-3097-17)
effects on shrimp meat, effects of dose and temperature on Clostridium botulinum E toxin production following, 23:18156 (CONF-681006-, pp 73-6)
effects on silane, effects of ethylene on, 24:238
effects on silica glass, 23:14889
effects on silicon containing impurities, annealing of defects from, (E), 21:29386
effects on silicon semiconductors, spectral studies, 23:44494 (N-69-30360)
effects on silicon solar cells, 21:34932(R) (N-66-30186)
effects on silicon solar cells, effects of lithium doping on recovery from, 22:36157(R) (N-68-17065)
effects on silicon, interpretation of anomalously large frequency factor in first-stage annealing of defects produced in, 24:32897
effects on silicon, review of defects produced in, 25:59135
effects on silicon, structure of multiple-vacancy (oxygen) centers induced in, 25:56312
effects on silicon-on-sapphire thin-film transistors, 22:415(R) (AD-648453)
effects on silicones, 22:11104
effects on silkworm spermatids, effects of dose fractionation on mutagenic, 23:43736
effects on simulated chemical evolution of prebiological systems, 23:9875
effects on simultaneous crosslinking and scission of polymers, 21:30450
effects on simultaneous polymerization of different monomer streams, apparatus for, 23:11563(P)
effects on single and double strand breaks in DNA of phage T7, effects of oxygen and LET on, 24:50771
effects on single crystals of 1,1-cyclopentanedicarboxylic acid, 21:17654
effects on single crystals of organic compounds, ESR spectral studies on free radicals produced by, 22:18806(R) (COO-1385-21)
effects on size distribution of interstitial clusters in crystals, model for studies of, 25:24608
effects on skeletal muscle in frogs, 22:12904
effects on skeletal system of animals, review of congenital malformations following, 23:29805
effects on skin graft tolerance in mice, protective effects of bone marrow transplants against, 23:35886
effects on skin grafts from tolerant mice in relation to sensitization of normal hosts of the same strain, whole-body, 23:38509
effects on skin metastases of malignant melanoma, 21:32682
effects on skin of animals, effects of, on damage produced by burns, ionizing, 23:18092
effects on skin of atomic bomb survivors in Japan, latent, 23:29709
effects on skin of citrus fruits, effects of dose and storage temperature and time on low-level, 22:49662(R) (ORO-3097-17)
effects on skin of dogs, combined effects of burns on, 21:43451
effects on skin of hands, carcinogenic, 24:12317
effects on skin of man following therapy of spondylitis, 22:40767
effects on skin of man following therapy, carcinogenic, 23:5042
effects on skin of man, pathological, 22:49530
effects on skin of man, plastic surgery methods for treatment of, 24:27624
effects on skin of man, surgical treatment of injurious, 24:50960
effects on skin of mice, combined effects of 7,12-dimethylbenz (*a*) anthracene on carcinogenic, 23:50885
effects on skin of mice, effects of acute dose and dose fractionation on, 25:11260 (BNL-50203, pp 286-91)
effects on skin of mice, in relation to oxidation-reduction reactions, effects of sensitizing agents on, 24:34412
effects on skin of mice, rabbits, and rats, protective effects of cystamine and cysteamine against, 23:33740
effects on skin reactions on man following therapy for femoral osteosarcoma, effects of hypothermia and ischemia on, 25:19093
effects on skin, congress of dermatology on, 23:29560
effects on skin, congress of dermatology on, 23:29561
effects on skin, effects of dose and time on necrotic, 22:33947
effects on skin, histopathological, 23:33874
effects on skin, prophylactic and protective effects of cortisone against, 22:33867
effects on skin, ulcerogenic whole-body, 25:29603
effects on sleep rhythm of rats, protective effects of serum against, 24:32200
effects on sludge precipitation, 24:19525
effects on small intestine in rats, protective effects of hormone preparations on, 23:24680
effects on sodium acetate crystals, ESR spectral studies on radical conversions produced by, 22:18806(R) (COO-1385-21)
effects on sodium azide, spectra of products from, 23:19778
effects on sodium chloride crystals containing hydroxide impurity, mechanism of F → X center conversion in, 24:45323
effects on sodium chloride crystals, anion-vacancy processes occurring after F-light bleaching of, 25:9559
effects on sodium chloride crystals, formation and properties of colloidal centers in, 25:45549
effects on sodium chlorodifluoroacetate single crystals, ESR spectral studies on, 22:18806(R) (COO-1385-21)
effects on sodium metabolism in rats following abdominal exposure, 24:14433
effects on sodium nitrates, effects of cation vacancies on yields from, 23:28901
effects on solar cells, kinetics and recovery of, 24:29615(R) (N-70-20650)
effects on sole fish, effects of storage temperature on spoilage of, 23:41520 (TID-24317, pp 59-83)
effects on solid acrylamide and acrylic acid, NMR studies on kinetics of, 25:23609(R) (CEA-N-1409)
effects on solid biological materials, ESR studies of, 23:35652
effects on solid calcite, mechanism of, 22:30607
effects on solid heterocyclic compounds, radical yields from, 22:33395
effects on solid malonic, oxalic, and succinic acids, ESR spectral studies on mechanism of, 23:28930
effects on solid nitrates, studies on fragments and mechanism in, 22:30607
effects on solid organic compounds, effects of electron dislocation and molecular dimensions on, 25:54635
effects on solid pentane, effects of additives and scavengers on yields from, 24:46262
effects on solid polyethylene, heats of reaction from free radical recombination in, 22:30584(R) (COO-1088-30)
effects on solid polymers, kinetics of radical accumulation from, 24:13960
effects on solid polymers, survey of, 22:25412
effects on solid proteins, effects of structure on, 24:22697
effects on solid proteins, methods for studying free radicals produced by, review on, 23:49831
effects on solid state defects in metals, 21:26851
effects on solid state polymerization of allyl 5-norbornene-2,3-dicarboxylate with acetanilide, succinimide, or N-succinimide, phase studies on, 22:109
effects on solid-phase polymerization, mechanisms of, 21:24007
effects on solid-state polymerization, 23:11560
effects on solid-state polymerization of eutectic system of N—vinylsuccinimide and monoallyl ester of 5-norborene-2,3-dicarboxylic acid, 22:51036
effects on solid-state polymerization of maleimides in binary mixtures, 24:36286
effects on solid-state polymerization of N-vinylsuccinimide, 21:21990
effects on solid-state polymerization of trioxane, 22:4195
effects on solid-state polymerization of trioxane in presence of proton and electron acceptors, 21:17680
effects on solid-state polymerization of trioxane in presence of proton and electron acceptors, 22:42726(T) (NSJ-tr-108)
effects on solid-state polymerization of trithiane, 22:12385
effects on solid-state polymerization of vinylene carbonate, kinetics of, 22:51018
effects on solid-state polymerization, distribution of molecular weight in, 23:11573
effects on solid-state polymerization, induced electric conductivity resulting from, 21:24008
effects on solids, bibliography on, 21:7853 (AD-635088)
effects on solids, book on, 24:21862
effects on solids, channeling effect in, (T), 23:3611
effects on solids, conference on, 21:40095
effects on solids, general cascade theory of defect production from, 22:22206(T) (AERE-Trans-1090)
effects on solids, influence of scattering law on, 22:24469
effects on solids, literature survey, 22:43619(T) (JPRS-46209)
effects on solids, modified cascade theory of defect production from, 22:22205(T) (AERE-Trans-1089)
effects on solids, particle-track studies of, 22:36513
effects on solids, research on, 22:22203(R) (ORNL-4250)
effects on solids, research program on, 24:15383(R) (COO-1800-9)
effects on solids, research program on, 25:45535 (AD-720274)
effects on solids, review of, 23:41680 (CONF-670846-, pp 208-51)
effects on solids, review on research on spatial distribution of free radicals produced by, 25:179
effects on solids, spatial distribution of defect cascades from, (T), 22:31935 (BNL-50083, pp 374-88)
effects on solids, theory of displacement spike in, 24:30379
effects on solids, use of research reactors in studies of, 21:30258 (ORNL-P-3038)
effects on solubility of quartz and silicon dusts, 22:12356
effects on solutions of adenine and guanine, ionizing, 24:543(R) (NYO-910-125)
effects on solutions of DNA, mechanism of luminescence, 23:33625(T) (AD-843709)
effects on solutions of glucose and sucrose, effects of pH on peroxide scavenging activity of cysteine following, 23:47957 (UH-235-P-5-4, pp 176-82)
effects on solutions, effects of pH and scavenger concentration on radical yields and molecular products from, 23:47505
effects on solutions, reactions at metallic electrode of excited molecules produced by, 24:242
effects on solvents used for extraction and purification of fertile and fissionable materials, 23:17545
effects on somatic aspects of organisms, 22:51875 (TID-4060(1st Ed.))
effects on sorption capacity of cells of Ehrlich ascites carcinoma, lymphosarcoma, and ovarian tumors, 24:34585
effects on sorption of drugs by gastrointestinal tract of rats, 23:33630
effects on sorption of iodine-131-labeled diatrizoate sodium in man following oral administration, 23:35658
effects on sorption of tetracycline in guinea pigs, effects of clostridia infections on, 23:18094
effects on sorptive properties of nickel oxide surfaces, 22:52301
effects on soybean seeds, effects of, on genotype and phenotype correlations in progeny, 24:14460
effects on soybeans, mass screening of technique for selection of mutagenic, 22:36246
effects on soybeans, review of mutagenic, for disease resistance, heat tolerance, production of oil and protein, and yield, 25:37761 (CONF-701125-1)
effects on space flight personnel, classification of early and late somatic, ionizing, 23:43890
effects on space vehicle materials, 25:55576 (N-71-25034)
effects on space vehicles with extra-atmospheric trajectories, review, 23:5328
effects on spacecraft on deep-space missions, analysis of, 23:49600 (N-69-30675)
effects on species of microorganisms in man following use for therapy of malignant tumors, 24:42033
effects on sperm of Drosophila, effects of dose on, 24:32173
effects on spermatocytes of Drosophila melanogaster, effects of oxygen and nitrogen on recovery from, 22:521
effects on spermatogonia of mice, effects of dose on mutagenic, 24:674
effects on spinal cord, 21:22754
effects on spinal cord following therapy, effects of dose on necrotic, 24:34609(T) (BNL-tr-316)
effects on spleen and thymus of mice, electrophoretic measurement of histones for determining carcinogenic, 24:48697
effects on spleen cells from mice, in relation to specificity of in vitro response of antigen-sensitive units, 24:639
effects on spleen weight in mice as function of dose, protective effects of AET and combined AET, DNA, glutathione, and serotonin against, 25:13478
effects on spoilage microflora of haddock, effects of oxygen abundance on, 22:26020
effects on spores and vegetative cells of Clostridium botulinum, role of DNA and hydration in, 25:49318 (AD-717563)
effects on spores of Bacillus subtilis, combined effects of chemicals, heat, and, 25:24469
effects on spores of Clostridium, ionizing, 21:22812
effects on spores of Osmunda regalis, ESR study of, 25:11319
effects on sprout darkening of onions during subsequent storage, 25:41833(R) (IA-1218)
effects on sprouting and storage life of onions, effects of dose on, 25:42745 (RISO-238)
effects on sprouting in winter-harvested potatoes during subsequent storage, 25:41833(R) (IA-1218)
effects on sprouting of garlic, onions, and potatoes, 23:12249(T) (ORNL-IIC-14, pp 5-19)
effects on sprouting of potatoes, 22:31301
effects on sprouting of potatoes and onions and ripening of fruits, effects of dose on, 24:48780
effects on sprouting of potatoes in comparison to effects of chemical inhibitors, 25:16394
effects on sprouting of potatoes, inhibitory, 25:27167
effects on sprouting of potatoes, ionizing, 24:32335
effects on stability and structure of uranium—molybdenum alloys, 21:14885(R) (RISO-139)
effects on stability of β-carotene adsorbed on sugars in aqueous dispersions, 25:504
effects on stability of DNA fractions from liver of rats, 23:45659
effects on stability of highly crystalline polyoxymethylene, 22:35855(P)
effects on stability of petroleum fractions, 21:21978
effects on stability of sulfur-containing condensation and polymerization resins on bases of aromatic compounds, 23:6152
effects on stabilization of sulfur trioxide, 21:40931(P)
effects on stainless steel in contact with water or gas, in-pile, 21:18298(R) (EURAEC-1652)
effects on stainless steel-clad fuels, in-pile, 22:766 (BMI-1809, Sect.F)
effects on stainless steel-clad plutonia—urania, relations with fabrication, 21:1956 (CONF-660606-53)
effects on starches and sugars, toxic effects of, on Aspergillus and tissue cultures, 24:25616 (CEA-Bib-178)
effects on starting potential of gaseous discharge tubes, 22:28269
effects on static electricity on polymer surfaces, 22:6359(P)
effects on steel in Otto Hahn reactor pressure vessel, 23:28597
effects on steel reactor pressure vessels, review, 22:30802
effects on stem cell pools, review of models for, 25:44881
effects on stem cell populations in bone marrow of rats, development of computer model for, 25:2590
effects on stem cells in mammals, developments in bone marrow transplants for treatment of, 25:29560
effects on stem cells of bone marrow and blood, review of recovery from, 24:14571
effects on stem cells of mice, comparison of recovery following erythropoietin and hydroxyurea treatment and, 25:16344
effects on stem cells of nerves in chicken embryos, 22:19409

effects on stem cells, relation between leukemia induction and, 25:16280
effects on stem-cell population and survival of mice, biological model for analysis of relation of, 22:45686
effects on sterility of medical products, conference on economic aspects of, 22:31310
effects on sterility of milk, review of, 24:4703 (ORNL-IIC-26)
effects on sterility of space vehicles, effectiveness of combined heat and, 24:12340 (SC-RR-69-857)
effects on sterilization of Mediterranean fruit flies in Hawaii, 25:27157
effects on sterilization of poly(vinyl chloride) and polyethylene for medical uses, 24:19025
effects on storage life and organoleptic properties of fish, ionizing, 23:48292 (ORNL-IIC-25)
effects on storage life and wholesomeness of fish and shell fish, 22:8682
effects on storage life and wholesomeness of food, review of ionizing, 23:8098
effects on storage life and wholesomeness of food, review of safety aspects of, 22:49676
effects on storage life and wholesomeness of foods, research program on, 25:42747
effects on storage life and wholesomeness of fresh and canned foods, 25:21965
effects on storage life and wholesomeness of fruits, review of, 23:2999
effects on storage life and wholesomeness of meats, ionizing, 23:29923 (SORIN-92)
effects on storage life of Bombay duck, 22:4722
effects on storage life of cod, effects of dose, pH, spore load, and temperature on, 22:6930(R) (COO-1183-24)
effects on storage life of Dungeness crab meat packaged in number 10 cans, 23:32011
effects on storage life of fish, 25:24492(R) (TID-25546)
effects on storage life of fish following shipboard irradiation, 23:18150 (CONF-681006-, pp 29-35)
effects on storage life of fish, conference on, 25:55362 (LFEN-NI.-56-a)
effects on storage life of fish, effects of dose and vacuum packing on, 23:20451
effects on storage life of fish, effects of dose, oxygen, packaging material, and temperature on, 22:2559
effects on storage life of food, 22:17063
effects on storage life of food, 22:51875 (TID-4060(1st Ed.))
effects on storage life of food in comparison to effects of deep freezing, 23:50967
effects on storage life of food, resolution of Scientific Council of International Society for Research on Nutrition and Vital Substances regarding, 22:49678
effects on storage life of foods, IAEA sponsored research on, 24:39470 (STI/DOC-10/105)
effects on storage life of foods, ionizing, 22:8668
effects on storage life of fresh fruits, microbiological analysis of, 22:26019
effects on storage life of fruits and vegetables, review of radiobiological parameters in, 23:8096
effects on storage life of ham in cellulose and plastic bags, 25:49329
effects on storage life of meat, ionizing, 24:34816(P)
effects on storage life of mushrooms, ionizing, 25:8821(P)
effects on storage life of perch fish, effects of temperature on, 23:18151 (CONF-681006-, pp 37-40)
effects on storage life of potatoes, study of economic feasibility of, 22:33995 (JEN-184-SI/I-17)
effects on storage life of seafood in Iceland, India, and United States, 24:32337
effects on storage life of shrimp following shipboard irradiation, 23:17909 (CONF-681006-, pp 25-8)
effects on storage life of tropical fruits, 24:34813
effects on storage life, quality, and wholesomeness of alava and gineke potatoes, 23:29920(T) (ORNL-tr-2142)
effects on storage life, taste, and wholesomeness of seafoods, effects of packaging and post-irradiation temperature on, 22:17064
effects on storage of radioactive waste in salt mine, 22:51064
effects on storage time of mushrooms, 23:43936
effects on strands and molecular weight of DNA, 24:39429
effects on stratum granulosum in hippocampus of rats, qualitative aspects of, 24:23104 (CONF-690501-, pp 823-39)
effects on strawberries, physiological and commercial, 23:29916 (CONF-670649-27)
effects on Streptococcus faecalis, effects of daunomycin on, 25:27100
effects on stress damage in power reactor graphite, 23:10307
effects on structure of Big Rock Point Power Reactor fuel elements, in-pile, 21:40554(R) (GEAP-5507)
effects on structure of cells, role of DNA in, 25:35197
effects on structure of deoxyribonucleoproteins in somatic cells, degratory, 25:35198
effects on structure of DNA and RNA, 22:23448
effects on structure of DNA in microorganisms and repair mechanisms, 22:40582
effects on structure of DNA of seed embryos, effects of homologous DNA on, repair of, 25:29716
effects on structure of DNA, protective effects of DNP and cell nuclei against ionizing, 22:23564
effects on structure of nucleoproteins in amnion cells, lymphocytes, and Tetrahymena, 25:35206
effects on structure of ONA and DNP in relation to luminescence, 23:24513
effects on structure of plutonium—uranium oxide fuels, 23:36278
effects on structureless diatomic solids, equations for displacement cascades produced by, 21:44169
effects on styrene-containing glasses of chlorobutane or tetrahydro-2-methylfuran, ESR studies of, 23:19760
effects on subcutaneously implanted spleen of dogs, lymphocytopenic, 22:40882
effects on submolecular structure of DNA in rat thymus, effects of temperature and time before second exposure on, 24:23123
effects on subsequent polymerization of vinyl monomers, 22:35842(P)
effects on subsequent treatment of polymers by chemicals to change surface properties, 25:6358
effects on substituted nitrophenols, isomeric effects on yields from, 23:40676 (BNL-50149, pp 40-75)
effects on sugars, radiomimetic effects of, on cultured vegetable tissues, 22:43261
effects on suitability of blood for transfusions, 21:22692
effects on sulfhydryl content of homogenates of cervical carcinomas, 24:34132
effects on sulfochlorination of hydrocarbons, studies on operation data of reactor for, 25:143
effects on sulfochlorination of polyethylene and polypropene, electron microscopic studies of compounds formed by, 22:27789
effects on sulfonamide content of blood of rats, 22:21614
effects on sulfur hexafluoride, effects of additives on production of transient species in, 21:1380(R) (RRL-2310-188)
effects on sulfur-containing resins in water, kinetics of, 23:35225
effects on sunflower seeds following storage, 25:44971
effects on sunflower seeds, effects of storage time on, 25:29717
effects on suppression of allergic encephalomyelitis in mice, effects of localized and whole-body exposure on, 22:8609
effects on surface charge buildup on semiconductors, 21:22225
effects on surfactant system in lungs of rabbits, pathological, 25:11267
effects on survival intestinal stem cells of mice, in relation to $LD_{50}/_{5}$, 24:14585
effects on survival of Amoeba, effects of strain on, 23:35857
effects on survival of animal cells in cultures, role of DNA in, 25:24302
effects on survival of animals, combined effects of tryptamine on protective effects of AET, cystamine, and cysteamine ionizing, 23:33741
effects on survival of animals, effects of splenectomy on whole-body, 24:41990
effects on survival of Anisakis larvae in salted herring, effcts of dose and salt concentration on, 24:34830
effects on survival of Ascaris eggs, effects of dose and incubation time on ionizing, 23:38761
effects on survival of ascites tumor cells in mice, sensitizing effects of iodoacetamide on, 25:58034
effects on survival of bacteria in fish, effects of dose, packaging material, and storage temperature on, 25:24498
effects on survival of bacteria in ophthalmic ointment containing chloramphenicol and hydrocortisone, effective dose for, 25:27161
effects on survival of bacteria on meats in relation to treatment with sodium chlorides or sodium nitrates, ionizing, 23:50971(P)
effects on survival of captive and free-ranging pocket mice, effects of dose on acute, 25:37868 (BNWL-SA-3874)
effects on survival of cats, dogs, mice, rabbits, and rats, protective effects of drugs against ionizing, 23:50638
effects on survival of cell cultures, theory of ionizing, 21:45836
effects on survival of cells in relation to dose, 22:28662
effects on survival of cells, effects of cell cycle and mitotic arrest on, 22:31131
effects on survival of cells, effects of dose and dose fractionation on, 25:11252 (BNL-50203, pp 54-69)
effects on survival of cells, effects of RBE on repair of, 24:44634 (EUR-4452, pp 51-81)
effects on survival of cells, in relation to mortality of whole animals, 24:19346
effects on survival of cells, multi-hit model for, 21:28662
effects on survival of cells, theoretical considerations of high dose rate in, 24:44416 (EUR-4452, pp 779-86)
effects on survival of cells, use of computer programs for analysis of, 24:17122
effects on survival of clonogenic cells of epithelioma of mice breathing air, carbon dioxide, oxygen, and hyperbaric oxygen, 25:46984
effects on survival of Clostridium botulinum and Salmonella sp. on food, effects of dose on, 25:21993
effects on survival of Clostridium botulinum spores in food, combined effects of heat on, 24:12342
effects on survival of crickets, effects of oxygen on, 22:25869
effects on survival of cultured Chinese hamster cells in relation to incidence of chromosome aberrations, 24:17141
effects on survival of cultured mammalian cells, 22:6780
effects on survival of Drosophila eggs and embryos, computer programs for analyzing, 23:8053
effects on survival of Endomyces vernalis, effects of lipid content on, 25:44970
effects on survival of Escherichia coli and Saccharomyces cerevisiae, effects of temperature on, 24:48749
effects on survival of Escherichia coli, effects of pre-irradiation conditions on, 24:17174
effects on survival of families of mice, sex-linked mutagenic, 23:45693 (ANL-7535, pp 17-19)
effects on survival of fetuses of rats, effects of oxygen starvation on repair of, 22:51953
effects on survival of HeLa cells, ionizing, 24:6057
effects on survival of L cells, effects of lesions on, effects of methotrexate and temperature on, lethal, 25:11092 (BNL-50203, pp 41-53)
effects on survival of malignant and normal cells in man, effects of LET on, 25:19077
effects on survival of mammalian cells, in vivo assay of, 21:45837
effects on survival of mammalian tissue in vivo, determination of survival curve for, 25:8777
effects on survival of mammals, analysis of effects of hematopoietic stem cells on, 23:20316 (BNL-50058, pp 161-8)
effects on survival of mammals, protective effects of chemicals against, review of, 23:8024
effects on survival of man following therapy for thyroid carcinomas, 25:13524
effects on survival of man following therapy of bronchial carcinomas, combined effects of chemotherapy on megavoltage or orthovoltage, 25:13522
effects on survival of man with brain tumors, effects of dose on, 24:48656
effects on survival of man with kidney transplants, combined effects of drugs on, 24:29718
effects on survival of mice, effects of bone marrow injections on, 22:51987
effects on survival of mice, effects of burns on, 24:32216
effects on survival of mice, effects of diet and strain on, 22:23661
effects on survival of mice, effects of dimethyl sulfoxide and tris(hydroxymethyl)aminomethane on, ionizing, 21:24478
effects on survival of mice, effects of dose rate on, 21:34792
effects on survival of mice, effects of pre- and postexposure temperature on, 25:16354
effects on survival of mice, effects of radioprotective compounds on repeated, 22:25899
effects on survival of mice, effects of strain on, 22:23662
effects on survival of mice, effects of streptomycin on protective effects of cystamine against, 24:8000
effects on survival of mice, effects of streptomycin on recovery from, 24:8000
effects on survival of mice, protective effects of propolis against, 22:10791
effects on survival of mice, protective effects of combined cystamine and 5-methoxytryptamine against, 25:24217
effects on survival of mice, protective effects of biological and chemical substances against, 25:21742
effects on survival of mice, protective effects of streptomycin against, 24:8000
effects on survival of mice, protective effects of α-amidrazonium thiosulfates against lethal, 25:52204
effects on survival of mice, protective effects of AET and mexamine against fractionated dose ionizing, 24:752
effects on survival of mice, protective effects of lanosterol against ionizing, 24:6062
effects on survival of Micrococcus radiodurans, effects of acridine orange and LET on, 24:34781
effects on survival of microorganisms in meat, effects of incubation temperature on, 25:44985
effects on survival of Oedogonium cardiacum, effects of hypoxic and aerobic conditions on recovery from, 25:11304 (BNL-50203, pp 70-81)
effects on survival of planarians in relation to survival of neoblast cells, effects of ploidy on, 23:22360
effects on survival of planarians, effects of stem cell function on ionizing, 23:2913
effects on survival of plants found in Canada, LD_{50} calculations for, 25:32616 (AECL-3678)
effects on survival of plants, relation of, to phylogenetic position, 22:23682
effects on survival of rabbits, effects of bone marrow removal on, 25:16354
effects on survival of rabbits, effects of vegetable diet on, 25:16354
effects on survival of rats, effects of bone marrow removal on, 24:32178(T) (BNL-tr-302)
effects on survival of rats, effects of erythropoietin and shielding on, 23:31948
effects on survival of rats, effects of genetic strain on, 25:44941
effects on survival of rats, effects of pantothenic acid deficiency on, 23:41436
effects on survival of rats, effects of time of day on, 22:38449
effects on survival of rats, protective effects of shielding of bone marrow against, 22:49368
effects on survival of rats, protective effects of parabiosis against, 23:29564 (AD-678530)
effects on survival of rats, protective effects of ellagic acid against, 25:24221
effects on survival of Rhizobium leguminosarum, effects of dose fractionation on, 25:11325
effects on survival of sheep, relation between LD 50/60 and dose rate in, 25:49281 (AD-716615)
effects on survival of skin grafts in cattle, combined effects of azathioprine or thymectomy on extracorporeal, 24:640
effects on survival of spores of Osmunda regalis, effects of nitric oxide, oxygen, and water on, 25:27069
effects on survival of Vibrio parahaemolyticus in crab and fish homogenate media, effects of peptones and sodium chloride on, 23:18132 (CONF-681006-, pp 77-81)
effects on survival of yeast cells, effects of dose on recovery from, 21:34831
effects on survival of yeast cells, effects of sodium chloride on, 24:17170
effects on survival of yeasts, effects of dose and fructose concentration on ionizing, 24:36851
effects on survival of yeasts, effects of dose rate on recovery from, 24:8021
effects on survival, relation of crosslinkage theory of aging to ionizing, 22:49193
effects on susceptibility of pine species in environment of Lockheed reactor site to gall fly infestation, 24:25591
effects on susceptibility of sheep to blackleg infection, 25:46986
effects on swelling and thermal conductivity of fissium—uranium alloy at 610°C, 23:36164
effects on swelling in fast reactor structural materials, 23:36157

effects on swelling in plutonium—uranium carbide fuels, 23:36284
effects on swelling in reactor fuel elements, 22:49777
effects on swelling in sodium-bonded plutonium—uranium carbide fuels, 23:36285
effects on swelling of uranium dioxide at 1700°C, 23:36288
effects on swelling of uranium dioxide at 300°C, 23:36287
effects on swelling of Zircaloy-clad uranium fuel tubes in pressurized heavy-water reactor, effects of aluminum, iron, and silicon additions on, 21:22900
effects on sympathetic nervous system of, effects of dose on, 23:5016
effects on sympatho-adrenal system of personnel, effects of insulin on, 25:13586
effects on synaptic excitation of efferent nerves in rats, effects of dose on whole-body ionizing, 24:870
effects on synchronized L cells, effects of depressed macromolecular synthesis on recovery from, 25:26969
effects on synchronized skin tumors in mice, combined effects of 5-fluorouracil and, 25:29605
effects on Syngamus larvae for immunization of chickens against gapeworm disease, 24:50787
effects on synthesis and survival of granulocytes, review of ionizing, 23:38750
effects on synthesis of ATP in nuclei of thymus cells, 24:11934
effects on synthesis of bile acids in rat livers, inhibitory, 25:13370
effects on synthesis of DNA, 21:43333
effects on synthesis of DNA, protective effects of mixture of AET, glutathione, and serotonin against, 24:34388
effects on synthesis of histones in liver and spleen of rats, 25:29662
effects on synthesis of inosinic acid in liver cells of pigeons, protective effects of folic acid against, 21:34607
effects on synthesis of mRNA in liver and spleen of rats during, at 2 to 24 hr following acute exposure, 24:27534
effects on synthesis of nucleic acids and proteins in mammalian cells, 21:45514
effects on synthesis of plasma proteins in rabbits, tracer study of acute, 22:43250
effects on synthesis of RNA in rat liver, effects of actinomycin, DNAase, histones, and trypsin on, 24:16983
effects on synthesis of RNA in slime mold, ionizing, 22:25713 (COO-78-163, pp 64-125)
effects on synthesis of serum albumins in rats, sulfur-35 tracer study of whole-body exposure, 25:46711
effects on synthetic reactions of alkyl halides, 23:47491
effects on systems of divalent and trivalent iron ions, effects of acidity on oxidation and reduction in, 23:28887
effects on T1 bacteriophage, effects of moisture on, 25:49099 (UCLA-12-815, pp 1-36)
effects on tail and testes in mice, protective effects of cytostatic drugs against, 24:756
effects on tail growth and testicular weight in mice, combined effects of actinomycin C on fractionated, 25:29604
effects on tails of mice, protective effects of diet deficient in histidine and tryptophan against, 23:16358
effects on telomerization of ethylene with methyl formate, 24:20825
effects on temperature fields in reactor in-core probe units, (T), 25:46293 (JUL-717-RX)
effects on tensile properties of catgut sutures, effects of alcohol, toluene, and xylene on, 23:16456
effects on tensile properties of chromium—nickel steel at 650 to 850°C, 22:2668
effects on tensile properties of nickel-base PDRL alloy as function of temperature, 21:32931(R) (BNWL-CC-883)
effects on tensile properties of polyethylene for use in space satellites, 21:18359(R) (N-66-29753)
effects on tensile properties of Type 304 stainless steel, 22:16271(R) (BNWL-666)
effects on tensile properties of Type 304 stainless steel at 650°C and 15,000 to 30,000 psi, in-pile, 22:21727 (ORNL-TM-2130)
effects on tensile properties of Types 304 and 316 stainless steel, 24:6245
effects on tensile strength of nylon, silk, teflon, and tetron fibers in surgical sutures, 23:3001
effects on tensile strength, elongation, and hardness of elastomers, (E), 24:36061 (BNWL-1387)
effects on tetrachloroethylene in dilute pentane solutions, mechanism of electron scavenging effects on yields in, 22:23034 (IA-1128, pp 78-96)
effects on tetrachloroethylene in pentane solutions, mechanism of formation of hydrochloric acid and trichloroheptene in, 22:23034 (IA-1128, pp 78-96)
effects on tetrahydronaphthalene, mass spectrometric study of mechanism of, 21:43007
effects on textiles to alter properties, 22:42732
effects on thallium sulfate solutions, yields of hydrogen peroxide, 22:23034 (IA-1128, pp 78-96)
effects on thallium-activated potassium chloride, Coulomb interactions of color centers with electrons and holes, 24:45327
effects on the production of polymers of acrylamide and methacrylamide, 22:47193(P)
effects on therapy patients and radiological personnel, leukemogenic, 24:32254
effects on thermal breakdown of electric insulators, theory of, 23:2733
effects on thermal conductivity of powdered materials, review of, 23:5088 (EIR-138)
effects on thermal cracking of gas-oil fractions at 500°C, 22:2121
effects on thermal decomposition of lead nitrates, 22:42780
effects on thermal stability of DNA in rat liver, effects of dose on ionizing, 23:29351
effects on thermally oxidized silicon surfaces, 24:24110 (HMI-B-90)
effects on thermolumenescence of polymers, 22:42785
effects on thermoluminescence and thermoelectron emission of lithium fluoride crystals containing impurities, 24:47313
effects on thermoluminescence of branched polyethylene and isotactic polypropene, 24:11596
effects on thermoluminescence of lithium fluoride at low doses, 21:11704
effects on thermoluminescence of organic polymers, 23:43367
effects on thermoluminescence of polymers at -196°C, 21:24029
effects on thermostability of polyethylene, effects of antioxidants and fillers on, 25:57446
effects on thiamine biosynthesis in wheat seeds, effects of dose on, 21:34611
effects on thickness of hair of sheep, ionizing, 25:19121
effects on thin liquid films, bubble nucleation and rupture in, 25:41835
effects on thiol groups of histones in relation to radiosensitivity of thymus, ionizing, 24:11962
effects on thoracic lymphocytes, effects of, on immune reaction of man following injection, 22:51309 (ORAU-106, pp 194-220)
effects on thoracic spinal cord in man following therapy, effects of dose fractionation on γ, 23:50894
effects on thorium dioxide, spectral studies on color centers and lattice defects from, 24:16545(R) (AECL-3477)
effects on threshold level of nerve excitation, 21:24591
effects on thrombocytopoiesis, effects of thrombocytopoietin on recovery from, 24:16979
effects on thrombocytopoietic properties of blood plasma of rabbits, 24:12273
effects on thromboplastin activity in rabbits in relation to phosphatidyl ethanolamine and phosphatidylserine, 24:50737
effects on thymectomized mice for studies on cell populations required for immunocompetence, 24:44452
effects on thymidyl synthetase activity in rat liver, 21:34597
effects on thymine and uracil, mass spectra of products from, 23:17464 (NYO-2798-41)
effects on thymine in aerated aqueous solution, lytic, 24:41756
effects on thymine, products of lytic, 24:41762
effects on thymus gland in rats, relation of, to immune reactions to kidney transplants, ionizing, 24:19306
effects on thymus grafts, electron microscopic study of cytology following, 22:51929
effects on thymus of animals, protective effects of cysteine and cysteamine on, 25:32446
effects on thyphoid resistance of mice, effects of enteral vaccination with typhoid vaccine on, 24:50780
effects on thyroid activity in gerbils, protective effects of AET and serotonin against stimulating, 24:21215
effects on thyroid gland of man, carcinogenic, 25:24449
effects on thyroid gland of populations in vicinity of power-reactor sites, 21:31955
effects on thyroid in children of man during scanning, comparison of iodine-125, iodine-131, and metastable technetium-99 for, 25:11190
effects on thyroid of children, evaluation of hazards of neoplastic, 24:36836
effects on thyroid of man, effects of dose to neck in infancy on carcinogenic, 22:33969
effects on thyroid of rats and Rana temporaria larvae, electron microscopic study of, 21:28610
effects on tissue cultures of mammalian cells, review of, 21:36761(R) (N-67-19994)
effects on tissue cultures, methods for physiological analysis of ionizing, 21:41376
effects on tissue grafts, use of nuclear reactor for sterilizing ionizing, 23:29951
effects on tissue in space, 22:41440 (N-68-16837)
effects on tissues and survival of oysters, effects of dose on, 25:42607
effects on tissues for radiotherapeutic studies of malignant tumors in animals, review of, 24:32123
effects on tissues of cattle and sheep, histopathological study of, following autopsy, 22:40830 (ORO-657, pp 35-45)
effects on tissues of man, combined effects of electromagnetic waves on ionizing, 22:23673
effects on tissues of potatoes, determination of histological, 25:8802
effects on tissues of rabbits, protective effects of grid against, 24:6049
effects on tissues of rodents, effects of artificial hypothermia and ischemia on lethal whole-body, 25:19093
effects on tissues, factors determining renewal response following continuous, 22:49469 (CONF-680410-, pp 3.1-12)
effects on tissues, LET values for, 21:8796 (ORNL-4007, pp 171-210)
effects on tissues, physical aspects of, 24:39459(R) (ORNL-4446)
effects on tissues, protective effects of natural biologicals against, 24:34696
effects on tissues, review of recovery processes following, 23:12186
effects on titanium(IV) in glasses and oxides, ESR study of, 24:51805
effects on tolerance of hamsters to donor tissue homografts, combined effects of previous inoculation with large doses of transplantation antigen extracts on whole-body, 24:48444
effects on tomatoes of similar genotype in relation to growth rate and apical size, 23:45959
effects on Torulopsis utilis, kinetics of cell metabolite excretion subsequent to recovery from, 25:44973
effects on total count of microorganisms and coliform count in samples of red meat products from retail outlets, effects of cold storage on, 24:19378(R) (COO-2038-1)
effects on toxicity of carrots to rats, 24:23367
effects on toxicity of feeder cells to HeLa cells, 23:26862
effects on toxicity of fruits to rats following ingestion, 22:47650 (NYO-3422-1(Vol.4))
effects on toxicity of irradiated meats to man, 23:29931
effects on toxin production by Clostridium botulinum in fish, 24:48763
effects on toxin production in biological materials, 25:18915
effects on Tradescantia chromosomes, petals, and stamens following exposure to monazite, aberrant and mutagenic, 25:39835
effects on transducers, in-reactor, 21:5708
effects on transfer of antibody-forming clone cells in mice, 25:8769
effects on transformation of hematopoietic cells following implantation in thymectomized dogs, 22:31266
effects on transformation temperatures in uranium tetraiodides, 22:2710
effects on transforming activity of DNA from Bacillus subtilis, ionizing, 23:2740(R) (COO-78-174)
effects on transforming activity of DNA, role of strand scission in, 22:45463
effects on transforming capacity of carcinogenic viruses, mutagenic ionizing, 24:34241
effects on transforming DNA of Bacillus subtilis, effects of iodine compounds on, 24:50765
effects on transient conductivity and charge storage in silicon dioxide, 23:17869
effects on transistor surfaces, 21:12742(R) (N-66-34704)
effects on transistor surfaces, 21:12743(R) (N-66-37545)
effects on transistors and microcircuits, methods for increasing resistance, 21:6396
effects on transistors, lumped-model analysis of ionizing, 21:6378
effects on transistors, relations with surface parameters, 21:1969(R) (AD-632716)
effects on transmission of excitation in autonomic ganglion in relation to function of urinary bladder, 24:7993
effects on transplant immunity, effects of lethal dose on, 21:34618
effects on transplant kidney survival in man, combined effects of drugs on, 24:906
effects on transplantation immunity, 23:24521
effects on transplantation immunity of rabbits, effects of bone marrow cells on, 24:21090
effects on transplanted tumors of rats, effects of noradrenaline on inhibitory, 24:34415
effects on transplants of Ehrlich ascites carcinomas, effects of karyotype on, 24:34698
effects on transplants of hematopoietic tissues, review of effects of antibiotics and hormones on, 22:4698
effects on transplants of skin, effects of dose on, 21:26641
effects on transport of carbon-14-labeled p-aminobenzoic acid in intestines of rats, whole-body, 25:24411
effects on transport of proteins from microsomes to mitochondria in liver of rats, 23:17957
effects on trees, effects of pollen and seed exposure on mutagenic, 22:45499
effects on tributyl phosphate and diluents in extraction processes, 22:40167 (KR-126, pp 120-42)
effects on tributyl phosphate in fuel reprocessing cycles, 24:9479
effects on triolein and tristearin in beef and pork fats, 22:47491
effects on triplet-singlet energy transfer in perylene solutions of benzophenone, spectral studies on, 22:27626 (MIT-905-108, pp 33-62)
effects on tris(acetylacetonato)cobalt(III) in aqueous solution, 24:20798
effects on Triticum and Vicia faba in relation to thiol content in root meristem, 25:44974
effects on Triticum durum, mutagenic, 24:48519
effects on tryptophan oxygenase activity in liver of rats, whole-body, 24:50757
effects on tubes and uterus in women following castration, carcinogenic, 25:42675
effects on tubule cells in kidneys of mice, 22:12816
effects on tumor cells in relation to antibody stimulation following implantation in mice, effects of dose and dose fractionation on, 23:41263
effects on tumor cells, use of electron microscopy for determination of, 21:45759
effects on tumor induction in plants, 21:20425 (STI/DOC-10/66)
effects on tumor tissues, effects of inhalation of atmospheric or hyperbaric oxygen on, 23:41361
effects on tumor transplants in rats in relation to radiosensitivity, 24:34170
effects on tumor transplants, sensitizing effects of different concentrations of leucodelphinidin on, 24:34410
effects on tumorigenesis in mammary glands of mice, 24:48681
effects on tumors in animals, effects of differential hypothermia-normothermia on therapeutic, 23:6518
effects on tumors in human eyes, therapeutic, 25:42596
effects on tumors in mammals and man, effects of oxygen on, 23:45779
effects on tumors in man and mice, effects of halogenated pyrimidines on 6 MeV Linac, 24:48591
effects on tumors of larynx in man, effects of hyperbaric oxygen on therapeutic, 22:31176
effects on tumors of man, analysis of effects of dose fractionation and hyperbaric oxygen on ionizing, 24:29833
effects on tumors of rats, effects of oxygen on, 22:40749
effects on tumors, in relation to therapeutic radiobiology, 21:45745
effects on tumors, radiobiological mechanism of, 25:573

effects on tumors, review of factors affecting, 22:25916
effects on tumors, tourniquet anoxia technique for enhancing, 24:32121
effects on tumors, use of biochemical reactions in connective tissue to determine therapeutic ionizing, 21:45757
effects on two-rowed barley varieties, mutagenic, 25:21672
effects on type E toxin production in inoculated, packaged, fresh codfish, effects of incubation temperature, inoculum, and dose on, 25:13617(R) (COO-1183-32)
effects on tyrosine aminotransferase and pyramidone N-demethylase activity in rat liver, 25:44935
effects on ultrastructure of cardiac muscle cells of guinea pigs, 23:24739
effects on ultrastructure of cells of rabbits and sheep following exposure of testes ionizing, 23:20389
effects on ultrastructure of hepatomas in rats, 23:33832 (PHS-PUBL.-1809, pp 45-58)
effects on ultrastructure of human rectal mucosa, electron microscopy study of effects of dose on, 22:36209
effects on ultrastructure of neurosecretory cells in rats, effects of chlorpromazine and phenamine on lethal, whole-body, ionizing, 23:26880
effects on ultrastructure of nuclear membranes in salivary gland cells of butterfly larvae, 23:50355
effects on ultrastructure of papayas, 23:47955 (UH-235-P-5-4, pp 115-20)
effects on under-pressure creep of pyrolytic carbon shells, calculation of, 21:6895
effects on union of pathologic fractures, 21:28601
effects on upper epidermis of maize, combined effects of colchicine on, 22:15118
effects on uptake of calcium and phosphorus by man, 21:45744
effects on uptake of iodine-131 by perfused intestine and liver in rats, effects of food intake on, 25:13349
effects on uranium cores with as-extruded coarse grain, 21:16572(R) (RMI-6)
effects on uranium miners, thromboelastographic studies on, 25:39946
effects on uranium mining personnel in Czechoslovakia, evaluation of hemograms for study of, 23:43794
effects on uranium nitride at 1500°C, 21:34936 (UCID-15135(Pt.1))
effects on uranium phosphide crystal structure, in-reactor, 21:6875
effects on uranium swelling, capsule design for measurement of, 22:6136 (BNWL-SA-1377)
effects on uranium, its alloys, and compounds, 21:31066
effects on urea metabolism in mice during gastrointestinal syndrome following whole-body, 23:48235
effects on ureters following therapy for cervical neoplasms, 22:10852
effects on urinary acid excretion of amino acids in tumor patients, effects of type of tumor on local or whole-body, 24:50750
effects on urinary excretion of amino acids in mice, effects of time postexposure on ionizing, 24:50753
effects on urinary excretion of β-aminoisobuteric acid, deoxycytidine, deoxyuridine, pseudouridine, thymidine, and uracil in animals and man, review of, 24:50747
effects on urinary excretion of β-aminoisobutyric acid, creatine, and taurine by man and rats, use of, for indication of injury, 22:49492
effects on urinary excretion of deoxycytidine in man, development of method for determining, 24:50748
effects on usefulness of meats from animals in postattack environment, 22:25832
effects on uterine cervical carcinomas, effects of tissue oxygen tension on sensitivity to, 23:41387
effects on uv fluorescence of cells of bone marrow and blood, 22:36175
effects on uv-fluorescence of biological materials, ionizing, 24:34572
effects on uv-fluorescence of rat lymphosarcoma cells, 22:36350
effects on vaccines of Venezuelan equine virus in tissue cultures, effects of, on potency, 24:34173
effects on vaporous methylcyclohexane, effects of additives on yields in, 22:102
effects on variation in bond energy in molecules, 22:50992 (CEA-R-3520)
effects on vegetatively propagated crops, mutagenic, 24:21137
effects on vertebral bone marrow in man following therapy of carcinomas, aplastic, 25:52238
effects on vesical mucous of human bladder following therapy, 22:33951
effects on vestibulocochlear analyzer in man during tumor therapy, 24:32242
effects on viability of cells and viruses, review of macromolecular basis for, 24:34099
effects on viability of E. coli, 21:34832
effects on Vicia faba root cells, mechanism for repair following, 25:44790
effects on Vicia faba seedlings in relation to thiol content in roots, 25:44975
effects on viral-induced antibody neutralization in mice following administration of immune hematopoietic cells, leukemogenic, 25:584 (CONF-680529-, pp 186-218)
effects on viruses in carcasses of livestock, effects of, on use of meat for food, 22:17063
effects on viruses, comparison of photochemistry of nucleic acids following, 23:20447
effects on viscosity and yield of juice from grapefruits, low-dose, 22:49662(R) (ORO-3097-17)
effects on viscosity of DNA of fish sperm, 23:29365
effects on viscosity of shrimp homogenates, effects of cryogenic temperatures on, 24:9981
effects on viscous relatively low-molecular weight polymers, preparation of highly radiation sensitive telomerized polyesters by, 25:51497(P)
effects on visual learning behavior of dogs, effects of dose on ionizing, 24:9950
effects on visual system of Heliothis zea, ionizing, 22:49488(R) (ORO-2903-43)
effects on visual system of rabbits, damaging, 25:32574
effects on visual systems in insects, molluscs, and man, mechanisms for ionizing, 24:34717 (TID-25431)
effects on vitamin B$_6$ content of tumor patients, study of enzyme activity in erythrocytes for determining, 24:34108
effects on vitamin B1 and E content of foods, combined effects of heat, oxygen, and storage on, 24:29714
effects on vitamin content of eggs, 24:48793
effects on vitamins, 22:4216
effects on vitamins in offal and meat, 24:48794
effects on void formation in materials, relations with dose and temperature, 25:58312
effects on void formation in materials, theory of, 25:58314
effects on void formation in reactor materials, conference on, 25:58304
effects on vulcanization of rubber, industrial uses of, 24:18984 (CONF-691036)
effects on waste effluents containing organic materials, 25:21027(P)
effects on waste water, 25:44380
effects on waste water and sewage sludges, economics of, 24:46286
effects on water adsorbed on high-surface-area solids, hydrogen yields in, 23:216 (ORNL-4272, pp 218)
effects on water and aqueous solutions, primary radical yields from, 23:35153
effects on water at low LET, 23:33211
effects on water in different phases, mechanisms for, 23:35145
effects on water vapor, review on, 25:10651
effects on water, comparison of photolysis with, 24:31404
effects on water, conference on, 21:21965 (COO-38-519)
effects on water, description of eight variable doubly telescoping factorial method of experimenal analysis of, 24:18759 (CONF-690910-, pp 698-732)
effects on water, effects of LET on yields in, 22:2103
effects on water, ESR studies on reactions of purines and pyrimidines with short-lived transients produced by, 25:32007
effects on water, homogeneous model for kinetics of, 24:50404 (CONF-690916-(Vol.2), pp 196-9)
effects on water, ionic effects in, 25:2274
effects on water, mechanism of product formation from, 25:4120
effects on water, rate of reaction of nitroparaffins with electrons and hydrogen produced by, 21:25901
effects on water, review on mechanism and yields of, 23:2314
effects on wave generation in elastic nonconductors, laser simulation of severe electromagnetic, (T), 24:42754 (SC-RR-70-428)
effects on weight per spleen cell colony, 24:50782
effects on whe5t, effects of developmental stage on, 23:45960
effects on wheat in relation to DNA content and volume of ceil nuclei, 22:43477
effects on wheat starch, determination of products by paper chromatography, 23:35976
effects on wheat, of Near East project on mutagenic, 24:21143
effects on white-footed mice, effects of seasons on, 25:21620 (ORNL-4634, pp 1-20)
effects on whole eggs, ionizing, 23:8097
effects on wholesomeness of clam meat for chickens and dogs, 23:18157 (CONF-681006-, pp 91-7)
effects on wholesomeness of clams, 24:17184(R) (NYO-3461-3)
effects on wholesomeness of food, review of, 23:50965 (PHS-999-RH-33, pp 169-72)
effects on wholesomeness of foods, 24:4709
effects on wholesomeness of foods, 22:19461 (NYO-3135-45)
effects on wholesomeness of foods, 23:14292
effects on wholesomeness of foods, 22:19462
effects on wholesomeness of foods, effectiveness of, 22:26018
effects on wholesomeness of foods, test programs for, 22:49677
effects on wholesomeness of seafood, legal aspects of, 24:2690
effects on wholesomeness of strawberries for chickens, dogs, and rats, 23:18165 (CONF-681006-, pp 155-8)
effects on woody plants, ionizing, 24:41788
effects on yeast cells, biochemical and cytophysiological recovery from, 22:31290
effects on yeast cells, effects of aminopterin on, 25:19155
effects on yeast cells, effects of B vitamins on, 22:10815
effects on yeast cells, effects of DNA synthesis on recovery from, 24:12322
effects on yeast development in Pacific crab meat, 21:28679
effects on yeast in relation to free radical formation, 22:25739
effects on yeasts, effects of dose fractionation regimen on, 24:39590
effects on yeasts, effects of ploidy and hetero- or homozygosity of genome on recovery from lethal, 25:29718
effects on yeasts, effects of polysaccharide content on, 22:52019
effects on yield of cayenne plants, effects of seed exposure on ionizing, 22:12941
effects on zeolites, effects of adsorbed formic acid, methanol, methylamine, or methyl iodide on mechanisms in, 22:23061
effects on zinc acetate dihydrate, EPR spectral studies on CH_3COO^- produced by, 25:6349
effects on Zircaloy-2-clad vibrationally packed uranium dioxide, in-pile, 22:41124 (BNWL-SA-1674)
effects on Zircaloy-clad bulk oxide fuel rods, computer program for evaluating, 21:28864 (WAPD-TM-583(Add.1))
effects on zirconium and zirconium alloys, 21:39555
efficiency as heat source in physicochemical investigations, 23:6179
electron-molecule reactions in, 25:34618
emission by charged particles moving spirally in magnetic field, (T), 24:37595
emission by internally-deposited isotopes in mosquito fish, effects of, on fecundity, 22:6772 (ORNL-4168, pp 61-118)
emission by nonlinearly excited plasmas, (T), 21:23185
emission from charged particle beams, power calculation for, 23:5729
emission from charged particle moving along spiral in magnetic field, limitations of special relativity theory for power and intensity of, 23:36877
emission from electrons in field of plane electromagnetic wave, dependence on polarization, frequency, and spectral width of second perturbing wave for stimulated, (T), 23:51904
emission from infinite line source and point source, anomalous headlight effect for nonelectromagnetic, 24:30472
emission from uniformly accelerated charge, 24:49392
emission of classical scalar field, from point source, 23:44705
emission of coherent, from electron beam reactions with cadmium sulfide single crystals, (E), 21:31210
emission of monochromatic, from coherent modulated charged particle beam, 25:59336
emission of resonance, from multiple scattering of 250- to 600-MeV electrons in laminated media, (E/T), 24:12627
emission of secondary, from atom with nondiagonal extinction matrix, (T), 22:5049
emission of transient, from charged-particle motion along ferrite/vacuum interface, (T), 24:18049
emission of transition, by charged particles crossing interfaces in multilayers, general formula for, 24:32665
emission of, spontaneous, (T), 23:27324
emission of, system for finding direction of, 23:651(P)
energy density distribution, analysis of local ionizing, 22:49326 (NYO-2740-5, pp 6-200)
energy deposition by ionizing, in volume of matter, (T), 25:45523
energy distribution, effects of, on production of biomolecular transitions, 22:31048
energy loss in biological materials, recombination methods for deriving, 24:14502
energy loss in nonequilibrium plasmas, differential approximation for, (T), 23:42320
energy transfer by, in general relativistic gases, 22:44279
energy transfer to matter by, 22:23055
escape probability for cylinders, 25:17269
evaluation and registration of, to nuclear workers, record form for, 21:36604
expansion in very early universe, 21:41730
exposure of high-energy, to elastomers and plastics, standard method for, 25:40143
exposure of high-energy, to polymeric adhesive-bonded specimens, standard method for, 25:40144
fields around SNAP-27 heat sources, mapping of, 25:4247
flux estimation by Monte Carlo method, cylindrically symmetric problems in, 21:37538
flux in Fermi Fast Breeder at time of fuel element damage, 21:30094(R) (APDA-CFE-3)
flux in nuclear explosions, neutron—gamma Monte Carlo transport code for determining, 22:40280 (AD-667933)
flux measurements by activation detectors, 21:36335 (CERN/DI/HP-90)
flux variations in reactors, methods of determining, 21:35780
frequency shift in atomic system in resonant medium, (T), 25:38171
hazard to man from, review of, 21:28472
hazard zones surrounding site of nuclear accident, monitoring studies to determine, 24:7780
hazards from internal and external fallout, 23:20196 (CONF-680507-, pp 376-83)
hazards from ionizing, in medical uses, review of, 21:16354
hazards from non-ionizing, for man, 24:34716 (CONF-690335, pp 13-25)
hazards from Plowshare Project, state participation in planning environmental and public health protection against, 24:23150 (SWRHL-82, pp 736-51)
hazards from radioisotope-labeled pharmaceuticals during shipping and storage, 21:24450
hazards from use of, in medicine, 21:12956
hazards from use of, in research, review of role of federal and state governments in United States, 23:22293
hazards from use of, in sterilization of insects, 21:9042
hazards in basic metal industry in USSR, protection against ionizing and radiofrequency, 24:726
hazards in environment of man, review of, 21:16351
hazards in hospitals and medical practice, review of, 24:12059
hazards in kidney scanning, 24:34442
hazards of environmental, review of, 23:24758
hazards of high energy, evaluation of, 24:27586 (CONF-690540-, pp 586-95)
hazards of off-site accidents to public, 24:7873
hazards of Plowshare Project in relation to ecological contamination and public health, philosophy underlying safety standards and systems against, 24:23143 (SWRHL-82, pp 176-184)
hazards to astronauts during space flight, 23:41317(T) (ORNL-tr-2144)
hazards to astronauts during space flight, 23:43759(T) (ORNL-tr-1944)

hazards to astronauts, bibliographies on, 23:29823(T) (JPRS-46947)
hazards to biological materials from nuclear weapons testing, 22:30743
hazards to biological materials, method for estimation of, 22:496 (UCRL-50163(Pt.3))
hazards to environment in nuclear industrialized countries, establishment of effective standards for protection against, 25:46881
hazards to hospital and research personnel, methods for protection against, 24:12092
hazards to hospital personnel, procedures for minimizing, 25:32388
hazards to human brain during radioisotope scanning of central nervous system, 25:32470
hazards to human health, review of, 23:29869
hazards to human population following nuclear accidents during 1945 to 1961 in relation to individual absorbed dose, analysis of, 24:7780
hazards to human population from industrial applications of nuclear explosions, evaluation of off-site safety programs for protection against, 24:23145 (SWRHL-82, pp 478-86)
hazards to human population from Ketch Study of Plowshare Project, responsibility of State Health Department in evaluating, 24:23234 (SWRHL-82, pp 729-35)
hazards to human population from medical uses, comparison of hypothetical exposure from nuclear industries with, 25:26774
hazards to human population from nuclear power plant effluent, evaluation of, 25:55347
hazards to human population from Plowshare Project, public health aspects of, 24:23142 (SWRHL-82, pp 1-8)
hazards to human population from radioactive aerosol release following nuclear accident, safety procedures to reduce, 24:7879
hazards to human population from underground Plowshare detonation, method for estimating, 25:39938
hazards to human population in relation to acceptable risk concept in establishment of dose standards, low dose rate, 24:17017
hazards to human population in relation to reactor site evaluations, 24:7880
hazards to human population in United Kingdom following accidents involving criticality, radioisotope transport, and reactors, 24:7878
hazards to human population in United Kingdom from discharge of radioactive wastes into aquatic environment, monitoring program for assessment of, 24:7841
hazards to human populations from artificial and natural sources, 25:57994
hazards to human populations from dental diagnosis in USA, survey of, 24:34346
hazards to human populations from dental diagnosis in USA, survey of, 24:34347
hazards to human populations in environs of nuclear power plants, 25:26746
hazards to human populations in North Dakota, survey of, 24:34348
hazards to human populations in relation to other risks, levels of acceptability for, 24:48528 (CONF-700810-45)
hazards to human populations, review of genetic, 24:31910
hazards to industrial and medical personnel, protection against, 23:50573 (PHS-999-RH-33, pp 157-9)
hazards to industrial personnel, 23:24623
hazards to lungs of personnel following inhalation of radioisotopes, effects of biological and physical half-life, chemical and physical form, and quantity inhaled on, 24:50864(T) (LF-tr-43)
hazards to man following exposure to contaminated environment over one year, effects of age on, 24:48462 (CEA-CONF-1560)
hazards to man following ingestion of fallout in foods, 23:29862
hazards to man following release of radioactive wastes to aquatic environment, 25:52013
hazards to man from artificial and natural sources, chronic exposure, 25:49307
hazards to man from environmental and medical exposure, ionizing, 24:36731 (NYO-3970-44)
hazards to man from excessive and improper medical exposure, model legislation for protection against, 25:16208 (BRH/ORO-70-8)
hazards to man from expanding industrial applications of Plowshare technology, role of industry in formulation of codes for protection against, 24:23149 (SWRHL-82, pp 697-712)
hazards to man from exposure to, assessment of genetic, 21:12955
hazards to man from fallout, 23:24669
hazards to man from industrial applications of nuclear explosions, role of state and local government in development of safety programs for protection against, 24:23146 (SWRHL-82, pp 487-97)
hazards to man from inhalation of reactor radioisotopes following accidental release, estimation of relative, 25:55202
hazards to man in industry and medicine, review on, 25:58139
hazards to man in nuclear medicine, development of equipment and methods for reducing, 25:46864
hazards to man in space flight, progress report for 1969 on, 24:32024(R) (N-70-13526)
hazards to man, analysis of calculations on low dose, 25:42703
hazards to man, ICRP recommendations on protection against external, 25:16200
hazards to man, public health standards in Florida for protection against, 23:24674
hazards to man, recommendations and regulations for minimizing, 25:24191
hazards to man, review of ionizing, 24:23392
hazards to man, review of protective measures against, 23:50549 (PHS-999-RH-33, pp 62-71)
hazards to medical personnel during care of patients containing therapeutic doses of radioisotopes, recommendations of NCRP regarding protection against, 25:16197 (NCRP-37)
hazards to patients and personnel during dental radiography, use of dental phantom for training in, 24:778
hazards to patients and personnel during surgery, measures for protection against, 24:29759
hazards to patients during radiology, carcinogenic ionizing, 24:44525
hazards to personnel and public in general from electronic equipment and radioactive materials, survey of role of federal agencies in establishing or enforcing safety standards for control of, 25:16202 (BRH/DEP-70-28)
hazards to personnel and surrounding environs at Goodyear Atomic Corporation during 1969, progress report on programs for controlling and reducing, 25:8692(R) (GAT-627)
hazards to personnel at military nuclear establishment in Pisa, Italy, statistical analysis of medical judgments regarding, 25:13468
hazards to personnel at nuclear center Karlsruhe, evaluation of, for employment eligibility, 24:34376
hazards to personnel during handling of radioactive materials, protection against, 23:2827
hazards to personnel handling radioactive materials, criteria for protection against, 25:2573
hazards to personnel handling radioactive materials, criteria for protection against, 25:2572
hazards to personnel in industrial atmosphere, correlation of biological and statistical evaluation of, 25:24181
hazards to personnel in industrial or medical nuclear installations, as criterion for employment eligibility, 24:34374
hazards to personnel in nondestructive testing, review of characteristics, criteria, and requirements for protection against, 24:44521
hazards to personnel in nuclear industries and uranium mines, 25:26783
hazards to personnel in nuclear installations as criterion for employment eligibility, 24:34379
hazards to personnel in Roumania, protection against, 22:33832
hazards to personnel in veterinary medicine, measures for reducing, 25:44820
hazards to personnel of nuclear power plants in Soviet Union, procedures for reducing, 24:50945
hazards to personnel of univesity departments in the field of medicine and science, 24:34375
hazards to personnel, Euratom regulations regarding, 24:734
hazards to personnel, ionizing, 21:28639
hazards to personnel, statistical normality for hematological evaluation of, 23:29460 (RT/PROT-(68)17)
hazards to population following accident at nuclear power plant, 24:7870
hazards to population in vicinity of uranium tailings pile in Arizona, measures for reducing, 24:31895
hazards to population of Switzerland following a theoretical nuclear weapons explosion, measures for protection against, 24:21197 (FMB-69-7)
hazards to populations from fallout, medical applications, and nuclear power, effects of, on genetics, 24:29888
hazards to public from electronic equipment, annual report of Bureau of Radiological Health on status of compliance of industry with federal programs and standards for control of, 25:16194 (BRH/OBD-70-3)
hazards to public health from nuclear weapons, review of, 24:703
hazards to radiological personnel, manual on technical problems of, 24:7868 (STI/PUB-201)
hazards to SNAP launching personnel, evaluation of risk criteria for, 24:4622 (SC-DC-68-2229)
hazards to students during laboratory demonstrations using radioactive materals, ICRP recommendations for protection against, 25:16205
hazards to uranium mining personnel, protective measures against external and inhaled, 23:50571 (PHS-999-RH-33, pp 108-11)
hazards to uranium mining personnel, survey of, 24:44523
hazards to veterinary personnel during, of large animals, 24:34505
hazards to veterinary personnel, code of practice for protection against, 25:46873
heating of nonfissile materials in reactor test facilities, calorimeter for measurement of, (E), 23:49585 (DUN-SA-107)
identification from components of scintillation pulses of phosphors, 21:32382(T) (AEC-tr-6719, pp 109-10)
index for 1962 to 1969 on, permuted, 25:23740 (ORNL-IIC-31(Vols.1-7))
industrial uses of, in Louisiana, 21:10504 (NP-16382)
industrial uses of, survey of, 21:8528 (TID-23474)
intensity at rough surfaces contaminated by simulated fallout, measurement of angular, 23:454 (AD-670480)
intensity measurements in India during IQSY, diurnal, seasonal, and spatial surface, (E), 25:24983
intensity of mixed, design of device for measurement of, 21:14463(P)
interaction of cosmic particles with, in expanding Universe, (T), 24:12619
interaction with matter in hot model of Universe, (T), 24:32596
interaction with matter in hot-model Universe, (T), 23:41894
interaction with matter, kinetic equation up to order lambda^4 for, 23:36815
interactions of unpolarized, density operator for, 25:14504
interactions with matter, cosmological aspects of, 23:22856
interactions with matter, dynamical description of, 23:15217
interactions with matter, model for, 23:36804(R) (AD-686820)
interactions with matter, randomness in distribution of hits in, 24:44249 (EUR-4452, pp 283-301)
interactions with matter, review of, 24:9907
interactions with spherical shells, angular distributions of diffusely transmitted and reflected, (T), 23:13003
interactions with two-level atoms, kinetic equations for, 23:44577
ionization energy in semiconductors, temperature dependence of, (T), 25:33419
leakage from shielded shipping containers, autoradiographic and radiometric methods for detection of, 23:33356
measurement in fast reactor operation, 21:21679
measurement in thermal reactor operation, 21:21678
measurement of background, at Sydney and Lucas Heights, Australia, 21:1454 (AAEC/TM-317)
measurement of background, in Soviet Union, 1964 to 1965, 21:16212
measurement of deformed backscattered, effects of shielding and source—detector distance on low-level, 25:42111
measurement of ionizing, international standards for, 21:23811
measurement of, design of thermopile detector for, 21:41090(P)
measurement of, estimation of physical parameters with Bayes principle in, 25:25270
measurement techniques for, 1967 summary of French research on, 23:2518 (NP-17597, pp 97-108)
measurement techniques for, calculations for error statistics in, 21:8591
mechanics of, (T), 21:18863
moment methods in transfer problems, (T), 21:13662
monitoring activities at LRL, environmental and personnel, 24:50901(R) (UCRL-50007-70-1)
monitoring at Tokai Research Establishment in Japan during January to March 1969, 25:49176(R) (JAERI-13524)
monitoring at Tokai Research Establishment in Japan during April to June 1969, 25:49177(R) (JAERI-13687)
monitoring in atmospheric precipitation and hay in Italy, comparative, 23:26779
monitoring in contaminated human wounds, 23:31829
monitoring in environment of ORNL during 1969, report on, 24:48576(R) (ORNL-4563)
monitoring in environs of reactor, use of packaged photographic film for, 22:45548
monitoring in environs of Savannah River Plant during January 1 through June 30, 1970, 24:50897(R) (DPST-70-30-2)
monitoring methods for mixed, around accelerators, 25:42443
monitoring of environment near Gasbuggy project, 24:31893
monitoring of personnel at Juelich nuclear research center, use of film dosimeters and ionization chambers for, 24:36754 (JUL-603-ST, pp 128-38)
monitoring of personnel at research reactors Juelich, methods for, 24:36745 (JUL-603-ST, pp 143-50)
monitoring of personnel in Germany during 1968, use of film badges for, 24:21187 (SZS-12/69)
monitoring of professionally exposed personnel in Germany during 1967, use of film badges for, 24:21186 (SZS-10/69)
mutations induced by, effects of fractionated and prolonged doses on, 23:41288
observation of solar ionizing, during eclipse of Mar. 7, 1970, (E), 24:37125
patterns in plasma from magnetic line source on conducting plane, angular anisotropy of EM- and P-mode, (T), 22:46152
permissible levels of ionizing, 21:28507
permissible levels of, in Great Britain, 21:8820
polarization and transformation theory of quasi-monochromatic, (T), 25:2846
polarization rate of continuous, calculations, 23:44107
production and use in Japan, review of biological, industrial, and medical, 22:31155
production and uses of, technical progress review on, 22:10523
production of harmonic, in microwave gas discharges, review, 22:5351
production of residual, in medium-energy proton accelerators, 21:38116
properties of coherent, statistical, 21:18945
properties of ionizing, spatial, spectral, and temporal, 25:46752
properties of transition, from charged-particle crossing dielectric media, (T), 22:37066
properties of transition, from oblique incidence of relativistic charged particles in and above optical region, (T), 24:10705
properties of, (T), 23:12997
properties of, effects of, on RBE, 22:12845 (ORNL-4215)
properties of, review of, for training safety technicians, 21:28426 (ANL-7291)
protection against damage from, by third party liability insurance, 24:9853
protection against ionizing, methods for personnel, 21:22467
protection against ionizing, using polymers, 21:26530
protection against, during thoracic examinations of man, 21:28462
protection against, effects of bone marrow transplants and nucleic acid extracts on, 21:10982
protection against, effects of water-soluble AC17 on, in cancer patients, 21:34723
protection against, methods for, 23:22303
protection of mice against, using antioxidants, 21:22638

protection of personnel against ionizing, recommendations for, 24:737
protection of personnel operating radiographic equipment, rules for, 24:738
protection of rats against, using Bacillus mesentericus vaccine, 21:22468
protection problems in industry, review of, 24:31956
protection standards in laboratories in Italy, 23:12078
protection techniques against, handbook on, 21:24452
pulse shape of, oscillographic recording of short, 24:27361
quality factor of mixed, liquid-filled ionization chamber for measuring, 23:45517
quality factors for, definition and calculation of LET and RBE as, 25:39859 (INR-1174)
quality of mixed, design and uses of differential recombination chamber for determining, 21:43237
quantum theory of, interference in, 23:18956 (AD-672986)
radiation dose to man from, in fallout, data for calculations of internal, 23:8004 (UCRL-50163(Pt.4))
radicals induced by, bibliography on electron spin resonance of, 22:25372 (COO-38-595)
radioinduced mutations in gametes of silkworms, base-analogue enhancement of, 24:666
ray trajectories, theorem of, (T), 23:34134
reactions with biological materials, review of, 25:44804
reactions with matter, 21:10969
reactions with matter, anomalous equilibrium properties of, (T), 22:949
reactions with matter, energy-loss fluctuations in, 22:30868 (UCRL-17751, pp 53-80)
reactions with matter, LET in, 22:40127
reactions with matter, rates of energy loss for ionizing, 25:46752
reactions with matter, semirelativistic statistical description of, 21:31513
reactions with plasma, kinetics of, (T), 21:29258
reactions with plasma, nonlinear effects for induced resonance in, (T), 22:39127
reactions with solids, distribution function for atoms from, 22:13583
reflection from a nonequilibrium medium, diffuse, (T), 23:3191
research at Inst. of Nuclear Sciences, New Zealand, July—Dec. 1967, 23:40514(R) (NP-17963)
research by Danish Atomic Energy Commission, 1967-1968, 23:13604(R) (NP-17754)
research by U. S. Health, Education, and Welfare Division of Biological Effects, 1968, 23:33804(R) (PHS-PUBL.-1809)
research in environmental, at University of California during January through June 1969, 23:48006(R) (UCLA-12-724)
research on, summaries of USAEC Division of Isotopes Development-sponsored, 25:23742 (TID-4066)
review of use in medicine and pharmacology, 24:9873
role in causing injuries following nuclear explosions, 22:6861
role in etiology of lung cancer, review of, 23:41481
role of short-wave, in origin of life on earth, 22:25788
safety during flight of manned Soyuz space craft, 24:731
scattering according to Rayleigh's law, Milne problem for polarized, (T), 25:14408
scattering by electrons, 25:14601
scattering by isotropic media, diffuse field from, 21:11676 (AD-630121)
scattering by spherically symmetric atoms, computed factors for incoherent, 21:46418
scattering during dental radiography, recommendations for minimixing x, 24:730
scattering in a finite homogeneous two-dimensional atmosphere, isotropic, (T), 21:15248
scattering in therapy, derivation of equation for, 23:50493
scattering of fallout, from ceilings of protective structures, 22:25627
scattering of partially coherent, by free electrons, nonlinear, (T), 25:59225
scattering on gravitational fields, (T), 23:51342
scattering on Lorentzian absorbers, spectra from, 23:5474
shielding against, concretes for, 21:13300
shielding against, use of rotatable slats for, 21:6126(P)
shielding with concrete, 21:42155
sorption in biological materials, theory of, 24:14501
specification for standard symbol of ionizing, 23:19618
standards for patients and personnel, in department diagnostic radiology, 24:34378
streaming through hot cell walls, radiometric method for detecting, 23:24386 (CONF-670649-41)
technology in Latin America, developments in, 24:39141 (PRNC-135)
technology of, review of industrial, 21:45319
theory for multiply scattered partially polarized, Cauchy system for exact solution of family of matrix integral equations in, 24:33058
theory for unpolarized, 25:17405
theory for, semiclassical quantum, 23:42719
theory of, failure of semiclassical, 25:50039
tolerance dose for human central nervous system, 24:48657
transfer in moving medium close to equilibrium, tensor of pulse-energy for, (T), 25:40725(T) (LA-tr-71-42)
transfer in stellar atmospheres, nonlinear, (T), 23:1578
transfer of resonance, in an infinite medium, (T), 23:3187
transfer of resonance, in infinite media, (T), 23:1577
transfer of, early papers on theory of, 21:7443
transfer, entropy production due to, (T), 21:41770
transfer, solving half-space problems for, with anisotropic scattering, 21:7570
transition, and the Cherenkov effect, (T), 23:25487
transition, from point charge moving perpendicularly to conducting barrjer, (T), 23:25486
transmission through holes of, from surface emitters, (T), 21:21045
transport equations for, solution using discrete ordinates S/sub n/ method, (T), 22:22524 (ORNL-RSIC-19)
transport in complex geometries, bounded estimates for point flux in Monte Carlo calculations of, 25:39330
transport in free-electron atmosphere, 25:36267
transport in infinite and semi-infinite media, (T), 25:9009
transport in inhomogeneous material, perturbations in, 22:41639
transport in matter, Monte Carlo calculations of nonlinear, 21:2282 (UCRL-6698(Del.))
transport in moving stellar atmospheres, (T), 24:46846
transport in nongrey gas with plane parallel geometry, (T), 21:41769
transport in nonuniform atomic plasma, (T), 22:31821
transport in scattering media, equation for correlated scatterers for, 21:46597
transport in shielding ducts and other cavities, modeling relationships for, (T), 23:14860
transport in shielding materials, use of matrix exponential kernel for, (T), 25:33390 (COO-2060-10)
transport in shielding, calculation by invariant imbedding method of, 21:1537 (N-66-21662)
transport in slabs, "fore and aft" approximation method for, 24:15381
transport in steel shielding, doses from mixed, 21:33496 (JINR-P9-3365)
transport in stellar media, solution of Milne problem for, 21:37115
transport in variable density atmosphere and ground, computer program for, 22:39146 (UNC-5179)
transport of, application of Monte Carlo sampling techniques to, (T), 22:22264
transport of, in human body, computer method for determining, 21:6515
transport theory of, effects of polarization on diffusion description of, (T), 23:46164
transport through cloudy planetary atmosphere, computations for, 25:33387 (CONF-710107-, pp 578-91)
transport through solids, 22:3157
treatment planes for external, in therapy, computer method for optimization of, 24:48655
turbulence in hot Universe dominated by, (T), 24:28067
use for cancer therapy, methods for altering sensitivity of host and tumor tissues during, 25:55265
use for construction of heterochimeras of men and mice with dogs, monkeys, and swine for detection of leukemia viruses, 23:47985
use for control of insect pests, conference on, 25:27137 (STI/PUB-223)
use for control of insect populations in Soviet Union, 24:32300
use for diagnosis of lymphoreticular sarcomas in man, in relation to recurrent metastatic involvement following therapy, 24:44562
use for food preservation, review of progress in Canada, England, France, Soviet Union, and United States on, 25:49338
use for food processing in Soviet Union, 25:52283 (A/CONF.49/P-696)
use for food processing, bibliography on ionizing, 25:16389 (AED-C-5-8)
use for food processing, legal and public health aspects of, 24:39513 (EUR-4466)
use for inactivation of bacteria for spacecraft sterilization, ionizing, 24:32272(R) (TID-25355)
use for management of leukemia in man, 23:29665
use for mutation breeding of plants, review on, 21:43358
use for pituitary ablation, review of, 24:27640
use for plant breeding in Japan, 21:34641
use for postsurgical therapy of medulloblastomas of human children, 24:34533
use for preoperative therapy of adenocarcinomas in colon or rectum, incidence of post-operative complications following low dose, 25:6752
use for preoperative therapy of bladder carcinomas in man, ionizing, 24:39542
use for preservation of fish and fishery products, economic aspects of, 24:2865
use for prevention of gynecomastia following estrogen treatment in patients with prostatic cancer, 24:6091
use for processing foods, 25:32631 (AECL-3855)
use for processing of food in India, programs for, 25:52284 (A/CONF.49/P-740)
use for sterilization of biological materials for use as transplants, effects of temperature on sensitivity of contaminating microorganisms during, 25:11337
use for sterilization of fruit flies, estimation of population size for sterile release programs, 25:27156
use for sterilization of med flies in Central America, cooperative program on, 25:27131 (CONF-680112-, pp 143-50)
use for sterilization of medical supplies, effectiveness and economics of ionizing, 24:51128
use for sterilization of medical supplies, effects of environmental condition on sensitivity of contaminating microorganisms during, 25:11328
use for studying antigen-induced refractory period after adoptive transfer of cells into irradiated mice, 24:638
use for studying effects of pre-exposure of bone marrow transplants to antigens, 24:628
use for studying effects of thymus on differentiation of antigen-reactive cells in mice, 23:47996
use for studying factors affecting growth of parental bone marrow transplants in mice, 23:48022
use for studying immunosuppression in chimeras of mice by antibody, 24:633
use for studying induction of tolerance to skin grafts in mice, 23:47984
use for studying interaction between genetically different transplants in mice, 24:2592
use for studying origin of hemolysin-forming cells in thymectomized mice, 24:635
use for suppression of immune reactions to kidney transplants by extracorporeal exposure of blood, 24:41780
use for therapy in man, development of leukemia following, 24:2754
use for therapy in man, treatment of nausea and vomiting following, 24:25509
use for therapy of acromegaly in man, evaluation of method for, 24:23290
use for therapy of acute leukemia in human children, 23:29666
use for therapy of acute myelogenous leukemia by extracorporeal exposure of blood, 24:41942
use for therapy of autoimmune diseases in man, evaluation of, 24:34544
use for therapy of bladder carcinomas, effects of split-dose on, 25:6744
use for therapy of bone and soft-tissue cancer in man, 24:25540
use for therapy of brain tumors complicated by hydrocephalia in human children, statistical evaluation of combined surgery and, 24:12204
use for therapy of breast carcinomas in man following mastectomy, effects of, on respiratory function, 24:909
use for therapy of breast carcinomas in man, combined effects of surgery on, 23:38719
use for therapy of cancer combined with chemotherapeutic agents, conference on, 24:27643
use for therapy of cancer of anal area in man, 23:38710
use for therapy of cancer of head and neck in man, effectiveness of split-dose techniques for, 24:29838
use for therapy of cancer of human hematopoietic system, review of, 24:25542
use for therapy of cancer of human uterus, treatment for recurrences following, 23:38712
use for therapy of cancer of lung in man, methods for dose fractionation in, 25:11223 (BNL-50203, pp 292-307)
use for therapy of carcinomas in esophagus, head, neck, breast, cervix, and bladder in man, 25:11222 (BNL-50203, pp 280-5)
use for therapy of carcinomas in human pancreas carcinomas in pancreas in relation to other treatment methods, 23:38711
use for therapy of carcinomas of human ear, neck, and nose area, effects of methotrexate on, 24:4659
use for therapy of carcinomas of human lungs, evaluation of, 23:38716
use for therapy of carcinomas of human ureters, 23:29688
use for therapy of carcinomas of larynx, mouth, and pharynx in man, combined effects of surgery on, 23:45842
use for therapy of carcinosarcomas and mixed tumors of human uterus, evaluation of, 24:17110
use for therapy of cervical and vaginal carcinomas in man, complications following, 23:43839
use for therapy of cervical cancer in man, standards for external and intracavitary, 24:25583
use for therapy of cheek mucosa carcinomas, review of, 25:52169
use for therapy of chronic granulocytic leukemia, 23:29667
use for therapy of Crocker sarcomas in rats in combination with cytostatic agents, 24:12201
use for therapy of deep-seated tumors, methods for obtaining optimum dose distribution during, 25:49190
use for therapy of effects on metastases in human lungs, total thoracic supervoltage, 23:35835
use for therapy of endometrial carcinomas, use of pelvic pneumography for planning of, 25:6742
use for therapy of Ewing's sarcoma in man, radical and whole-body, 23:38709
use for therapy of glioblastomas in man, estimation of tumor extent for, 24:6093
use for therapy of gynecological carcinomas in man, effects of high protein, vitamin supplemented diet on, 23:38706
use for therapy of head and neck cancer with lymph node metastases in man, combined effects of hyperbaric oxygen on ionizing, 24:9904
use for therapy of head and neck carcinomas, effects of hyperbaric oxygen on, 24:48643
use for therapy of Hodgkin's disease in man, development of myocarditis and pericarditis following, 25:32604
use for therapy of Hodgkin's disease in man, extended-port high-dose, 24:41926
use for therapy of Hodgkin's disease, effectiveness of, 23:29698
use for therapy of Hodgkin's disease, effects of stage of disease on survival following, 23:45855
use for therapy of human brain tumors, factors affecting effectiveness of, 24:23290
use for therapy of human cancer in combination with drugs, 24:27644
use for therapy of human cancer, effects of dose fractionation, rate, and time on ionizing, 24:29832
use for therapy of human cancer, review of, 23:41403
use for therapy of human carcinomas, role of antitumor immune mechanisms of normal tissues in, 25:58072
use for therapy of human cervical carcinomas, use of cellular patterns in peritoneal fluid to evaluate, 24:41946
use for therapy of human epitheliomas and melanomas, effects of hyperbaric oxygen and sodium cyclohexylsuccinate on, 23:29578
use for therapy of human lung cancer, effects of dose fractionation on, 24:34555
use for therapy of human lung cancer, effects of size of irradiated area on cardiac damage following, 24:2816
use for therapy of human lymphoid tumors, incidence of reticulum cell sarcoma following, 24:25585
use for therapy of human mammary gland neoplasms, review of combined effects of surgery on, 24:23293
use for therapy of human melanomas, combined effects of surgery on, 24:34552
use for therapy of human neoplasms, design of clinical trials for evaluation of, 23:43831

use for therapy of human neoplasms, surgical repair of intestinal lesions following ionizing, 23:29590
use for therapy of human reticulum cell sarcomas, effects of age on, 23:45840
use for therapy of human skin cancer, methods and problems in, 24:25544
use for therapy of human tongue tumors, 24:48654
use for therapy of human tumors, effects of hyperbaric oxygen on effectiveness of, 24:14525
use for therapy of human tumors, effects of oxygen on, 24:14565
use for therapy of human uterine cancer, cytological study of effects of dose on linear accelerator, 24:44572
use for therapy of human uterine carcinoma, incidence of rectal carcinoma following, 24:805
use for therapy of hypopharyngeal cancer in man, combined effects of post-irradiation surgery on incidence of wound complications following, 24:2762
use for therapy of intracerebral astrocytomas, estimation of hazards to brain following, 25:42701
use for therapy of leukemia in man and mice, combined effects of lymph node transplants on, 23:47988
use for therapy of leukemia, dose-response relation for, 24:7962 (RD/B/N-1445)
use for therapy of leukemia, mechanism of action for extracorporeal, 24:812
use for therapy of leukemia, methods for extracorporeal and whole-body, 23:41394
use for therapy of lung cancer, effectiveness of presurgical, 24:2761
use for therapy of lung tumors, calculation of dose-response curve for, 23:41384
use for therapy of lymphosarcomas in mice, effects of dose and presurgical or postsurgical treatment time on ionizing, 24:21251
use for therapy of malignant neoplasms, effects of LET and oxygen on high-energy ionizing, 24:7964
use for therapy of malignant tumors in animals and man, pathology of lung fibrosis following, 25:8791
use for therapy of malignant tumors in man, protective effects of leyk against leukopenia following, 25:46885
use for therapy of malignant tumors of human head, combined effects of surgery on, 23:29892
use for therapy of malignant tumors of oral cavity, review of methods and results for, 25:49255
use for therapy of malignant tumors, in relation to injuries of normal tissues, 24:27714
use for therapy of mammary carcinomas in man, development of bone, and skin diseases following, 23:38840
use for therapy of metastases in human lymph nodes, problems in, 24:25537
use for therapy of nasal and oral tumors in man, technique for combined use of arterial infusion of hydrogen peroxide with, 24:9905
use for therapy of nasopharyngeal angiofibromas in children in comparison to surgery, 23:35834
use for therapy of neoplasms in man, development of spino-cellular epitheliomas on radiodermatitis of scalp following, 23:45941
use for therapy of neoplasms of head and neck, combined effects of chemotherapy on, 23:38705
use for therapy of neoplasms of human head and neck, effects of dose on occurrence of myelitis following, 25:42700
use for therapy of neoplasms of human head and neck, effects of hydroxyurea on, 23:29586
use for therapy of neoplasms, ionizing, 23:50745
use for therapy of neoplasms, prognostic significance of temporal distribution of initial relapse following therapeutic ionizing, 23:38703
use for therapy of osteosarcomas, combined effects of hypoxia on, in relation to radiosensitivity, 24:34414
use for therapy of osteosarcomas, effects of hypoxia on, 24:34418
use for therapy of pelvic neoplasms in man, development of cystitis following ionizing, 23:38838
use for therapy of pelvic region, development of bladder complications following, 23:50915
use for therapy of pituitary and parapituitary tumors in man, evaluation of, 24:34530
use for therapy of rectal carcinomas, combined effectiveness of surgery and, 24:12210
use for therapy of renal cell cancer in man, evaluation of, 23:38714
use for therapy of reticulum cells sarcomas in man, evaluation of, 23:38715
use for therapy of skin carcinomas in mice, combined effects of hyperbaric oxygen on incidence of metastases following, 24:12303
use for therapy of tumor cells, method for increasing effectiveness of, 24:39520
use for therapy of tumor cells, review of effects of dose fractionation on, 25:11259 (BNL-50203, pp 260-7)
use for therapy of tumors in dogs, man, mice, and rats, review of, 25:11219 (BNL-50203, pp 130-53)
use for therapy of tumors in man, combined effects of hyperbaric oxygen on, 24:12206
use for therapy of tumors in man, review of use of dose fractionation for, 25:11221 (BNL-50203, pp 268-79)
use for therapy of tumors in mice, effects of dose fractionation, oxygen, and tumor site on, 24:7927
use for therapy of tumors, analysis of treatment schemes for different, 23:48176
use for therapy of tumors, effects of oxygen on effectiveness of, 24:7926
use for therapy of tumors, methods for evaluating combined effects of chemotherapy on, 23:45843
use for therapy of tumors, review of oxygen effect in, 24:7925
use for therapy of urogenital cancer in man, review of, 24:25539
use for therapy of uterine carcinomas in combination with surgery, review of clinical problems of, 24:44567
use for therapy of uterine cervical carcinomas, effects of autodegeneration, degree of differentiation, and vascular supply on sensitivity of tumors to, 23:41386
use for therapy of Wilms' tumor in human children combined with actinomycin D, 24:27622
use for therapy of Wilms' tumor in man in combination with actinomycin D and surgery, 24:27652
use for therapy, abstracts from conference on, 24:4656
use for therapy, clinical and radiographic distinction of osteitis from other complications developing following, 25:6804
use for therapy, effects of oxygen on, 24:795
use for therapy, methods for optimal, 24:14559
use for treatment of cancer in combination with drugs, studies on cell sensitivity for determining, 24:27645
use for treatment of leukemia, combined effects of bone marrow grafts on whole-body, 23:45848
use for treatment of waste water and sewage, 23:29097
use for tumor therapy in man, in vitro studies of effectiveness of infused hydrogen peroxide for regional oxygenation during, 25:46942
use for tumor therapy in man, in vitro studies of effectiveness of infused hydrogen peroxide for regional oxygenation during, 25:46943
use for tumor therapy in mice, comparison of effects of air and carbogen atmosphere on cure rate during, 25:55302
use in agricultural entomology, review of, 22:47657
use in agricultural research, 22:21626
use in agriculture, industry, and medicine in Japan, 23:12153
use in agriculture, industry, and medicine, 1967 summary of French research on, 23:2518 (NP-17597, pp 97-108)
use in backscatter gage for measurement of physical variables, 21:28295(P)
use in basic and applied medicine, 21:22351
use in chemical and allied industries, conference on, London, Sept. 27, 1967, 23:2338
use in commercial processing, methods for, 21:39146
use in commercial research and production programs, 22:4586
use in control and degradation of sewage-type pollutants, 22:30711
use in food preservation, progress of O.E.C.D. member countries on, 1966-67, 21:32814
use in food processing and agriculture, FOA/IAEA cooperative research on, 24:44386
use in hydrology, bibliography on, 21:28079 (PEL-144)
use in immunology and replacement surgery, 22:33908
use in industrial processes, 22:36004
use in industrial processes, 22:47294(R) (TID-24349)
use in industry in Japan, 22:49232
use in industry, medicine, and research in Canada, 22:16638
use in isotope separation method, 23:33337(P)
use in medicine and medical research, proceedings of Japanese Society of Nuclear Medicine on, 23:48082
use in plant breeding, 21:24674
use in plant improvement, review of role of mutations in, 25:46797
use in preservation of food, item selection for further AEC development of, 24:21332 (WASH-1131)
use in production of chemicals, review of, 21:23917
use in production of sulfonates, 23:319
use in removal of iron from mine drainage waste, 21:36075 (BNL-11576)
use in rice breeding program in Korea, 24:41811
use in soil moisture and irrigation studies, 22:6437 (STI/PUB-133)
use in studying transplantation of bone marrow into man, mice, monkeys, and rats, 24:625
use in therapy of head and neck cancer in man, effects of lateral face fields on incidence of development of injuries to bones and teeth following, 23:41479
use in treatment of industrial waste water, economic aspects of, 24:22862
use in U.S., review of industrial, medical, and research, 25:37538 (A/CONF.49/P-840)
use in UK industry, 24:22902
use of conformation, for therapy of uterine cervix cancer in comparison to stationary techniques, methods for, 25:13530
use of high-energy, in polymer chemistry, 22:71
use of ionizing, for control of insects in agricultural products, 24:32314
use of ionizing, for crop improvement, international cooperative research program for, 21:14627
use of ionizing, for food processing, program of joint FAO/IAEA Division of Atomic Energy in Food and Agriculture, 23:35961
use of ionizing, for food processing, review of, 24:32315
use of ionizing, for preservation of meat products, 21:22831(T) (JPRS-40119)
use of megavoltage, for therapy of retinoblastomas in man in combination with 3-ethylene melamine, 24:27650
use of pulsed, to measure direction and velocity of liquid flow in open tanks, 25:21243 (CSIR-SR-CHEM-133)
use of split-course, for therapy of human tumors, 24:29837
use of super-high-frequency, from plasmatron for chemical syntheses, 21:12475
use of whole-body, with dose fractionation for therapy, 24:29834
use of, for extracorporeal treatment of blood in transplantation of human organs, 21:14718
use of, in entomology, 21:11008 (STI/DOC-10/61)
use to control microbial growth in emulsion-type cutting oils, economic analysis of, 23:17694 (NYO-3883-1)
use to produce wood—plastic combinations, 21:10377 (SGAE-CH-39/1966)
uses for process, review of industrial, 22:37939 (WASH-1095)
uses in aerospace, 22:37945
uses in agriculture, 25:4732(R) (NYO-2043-216)
uses in agriculture in Japan, 25:21658
uses in agriculture, biological aspects of, 25:47047
uses in agriculture, biology, medicine, and metallurgy in Romania, 25:51608 (A/CONF.49/P-340)
uses in agriculture, review, 25:51968 (CONF-710428-, Paper 5)
uses in Australian industry, 22:47297
uses in chemistry, 23:31364 (CONF-681056-1)
uses in Czechoslovakia, France, Great Britain, and Soviet Union, 22:12546
uses in entomology, bibliography on ionizing, 22:12896 (STI/PUB-21/24)
uses in industrial processes, 22:12381
uses in industry, 22:22944
uses in industry and technology, review of, 22:42987
uses in industry, effects on radiation dose to human populations, 25:42692
uses in industry, effects on radiation dose to human populations, 25:42693
uses in industry, summaries of USAEC Division of Isotopes Development programs for development of, 23:13952 (TID-24823)
uses in Japan, industrial, 22:6542
uses in medicine and technology, criteria for benefits and hazards of, 25:58030
uses in South Africa, 21:38826(R) (NP-16864)
uses in US industry, 23:7703
uses of backscattered, review of, 21:24182
uses of, developments in, 22:16637
uses of, nontechnical aspects of, 24:20954
uses of, research in beneficial, 22:51875 (TID-4060(1st Ed.))
uses of, review of industrial, 23:50051
uses of, review of industrial, 21:42867
uses of, review of large-scale, 21:45154
uses of, review on industrial, 24:31424
variation of atmospheric, effects of man-made earth surface changes on, 22:2244
Radiation Absorption Testing
see Radiometric Testing
Radiation Belts
see Van Allen Radiation Belts
Radiation Biology
see Radiobiology
RADIATION CHEMISTRY
(Study of the effects of radiation on chemical systems)
see also Radiochemistry
accelerator uses in, 24:7472
Allen's model for radiolysis of aqueous solutions, 24:36268(T) (LIB/Trans-264)
analysis of products in, design of gas chromatograph for, 21:14149 (ORO-3106-21)
autoionization lifetimes in, statistical aspects of, 21:12470
bibliography of nuclear science literature on, from eastern countries, 23:26313 (AED-C-12-18)
bibliography of publications on, at Harwell, 1966, 21:21855 (AERE-Bib-152)
bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
bibliography on chemical effects of nuclear transformations, 1963 to 1967, 24:46290 (NP-18403)
bibliography on pulse radiolysis, 1960 to March, 1969, 24:20787 (AECL-3524)
biochemistry and enzyme studies by pulse radiolysis, 25:41862
book: Action of Ionizing Radiations on Water and Aqueous Solutions, 22:18858
book: Advances in Radiation Chemistry. Vol. 1, 24:20805
book: Advances in Radiation Chemistry, Vol. 2, 25:34615
book: Automatic Analyzers of Radiochemical Media, 21:34529(T) (AEC-tr-6715)
book: Chemistry and Physics of High Energy Reactions, 23:11583
book: Current Topics in Radiation Research, 22:40878
book: Current Topics in Radiation Research, Vol. 5, 23:38775
book: Early Radiation-Biochemical Reactions, 21:8744
book: Free Radicals in Radiation Chemistry, in Polish, 22:47182
book: Fundamental Processes in Radiation Chemistry, 23:13752
book: Handbook of Applied Radioactivity, in German, 23:17501
book: Nuclear Chemistry, 21:36053
book: Practical Course in Radiation Chemistry, 21:12444(T) (NP-tr-1480)
book: Principles of Radiation Chemistry, 24:22702
book: Principles of Radio- and Reactor Chemistry, in German, 23:4686
book: Problems of Protection from Ionizing Radiations in Radiation Chemistry, 25:42448
book: Pulse Radiolysis, 24:252
book: Pulse Radiolysis of Water and Aqueous Solutions, 21:25924
book: Radiation Chemistry and Cable Technology, in Russian, 23:49866
book: Radiation Chemistry of Polymers, in Russian, 21:3133
book: Radiation Chemistry Volume I. Aqueous Media, Biology, Dosimetry, 23:47560
book: Radiation Chemistry with Practical Instructions, in German, 25:20999
book: Radiation Chemistry, Principles, Techniques, and Uses, in German and English, 22:27832
book: Radiation Chemistry. Volume II. Gases, Solids, Organic Liquids, 23:47518
book: Radiation Polymerization, in Russian, 22:18856
book: Radiation-Induced Decomposition of Inorganic Molecular Ions, 24:38969
book: Solvated Electron in Radiation Chemistry, in Russian, 24:13957
book: The Chemical and Biological Action of Radiations, 10th Series, in English and French, 21:15960
book: The Chemical and Biological Actions of Radiations, 24:27136
book: The Chemical and Biological Actions of Radiations, 25:177

book: The Mechanism of Radioinduced Reactions, in Russian, 23:4708
book: Theory and Methods of the Radiation Chemistry of Water, in Russian, 23:33219
breakdown curves in, semiempirical calculation of, 21: 40938
buildings and facilities for, design and construction of laboratory, 23:6240 (CONF-670401-16)
calculations of relationship of mass spectra to ionic fragmentation in, 25:51517
cascade from colliding particles in decelerating medium, energy spectrum of, 21:28016
changes in chemical reactivity of irradiated inorganic materials, ASTM method for determining, 25:29095
characterization of short-lived radical intermediates in pulse radiolysis developments in, 23:35166
chemical effects of nuclear reactions in solids, 22:48888
chemical processes in, effects of electric and magnetic fields on, 22:21133
chemical reactions in, computer program for kinetic treatment of, 24:48911 (ANL-7693)
chemical reactions in, electron pulse studies of, 23: 47497
chemical yields in, 23:47525
comparison of Escherichia coli DNA and bromouracil-substituted DNA, 23:41232 (UCLA-12-737)
conference on energetics and mechanisms in radiation biology, Portmeirion, Wales, April 1967, 23:35184
conference on industrial applications of, London, Sept. 27, 1967, 23:2338
conference on large radiation sources for industrial processes, Munich, Aug. 18 to 22, 1969, 24:13878 (STI/PUB-236)
conference on process radiation in plastics industry, Pullman, Washington, June 11-13, 1969, 25:29121
conference on progress and problems in contemporary, Tenth Czechoslovak, Marianske Lazne, Czechoslovakia, June 22-25, 1970, Vol. II, 25:54592 (CONF-700652-(Vol.2))
conference on progress and problems in contemporary, Tenth Czechoslovak, Marianske Lazne, Czechoslovakia, June 22-25, 1970, Vol. III, 25:54595 (CONF-700652-(Vol.3))
conference on progress and problems in contemporary, Tenth Czechoslovak, Marianske Lazne, Czechoslovakia, June 22-25, 1970, Vol. I, 25:54588 (CONF-700652-(Vol.1))
conference on, Jerusalem, Israel, Dec. 27 to 29, 1967, 23:35141
conference on, Natick, Mass., April 22 to 24, 1968, 23: 47484
conference on, Nordic Society for Radiation Research and Technology, Risoe, Feb. 1971, abstracts from, 25: 20998 (RISO-M-1332)
conference on, Poona, India, March 6 to 9, 1967, 23: 222
conference on, proceedings of second Tihany, May 15 to 19, 1966, 21:23945
conference on, Radiation Research Society, 24:6029
conference on, Studsvik and Stockholm, September 17 to 19, 1969, 23:47454 (AE-368)
conference on, Univ. of Newcastle upon Tyne, England, Sept. 21 to 23, 1966, 22:2148
conference on, Vienna, April 17 to 21, 1967, 24:7446 (STI/DOC-10/84)
conference on, Warsaw, Poland, Feb. 10 to 12, 1964, 24:50396(T) (AEC-tr-7035)
conference on, Warsaw, Poland, Feb. 10 to 12, 1964, 22:4211
data acquisition system for pulse radiolysis experiments in, 23:41107 (EUR-4289, pp 243-6)
data analysis in, computer program for, 21:32190 (AD-654502)
data center for, scope, function, and facilities of, 21: 38980
data reduction for gas-phase radiolysis, computer program for, 24:7444 (RFP-1404)
decay curves in pulse radiolysis, conversion tables for percentage absorption to optical density, 24:36264 (AECL-3567)
decay curves of chemical species in, tables for evaluation of, 22:18804 (ANL-7400)
decomposition and synthesis in, 24:7478
development for MSRE, 21:23612(R) (ORNL-4037)
development in Japan, 22:18659
development in Latin America, 22:39965 (PRNC-112)
development of fission neutron, use of Accelerator Pulsed Fast Assembly for, 24:11259 (CONF-690102-, pp 595-605)
developments and uses of, review on, 23:43344
developments in, 24:212 (CEA-CONF-1298)
developments in, 24:41315(R) (RRL-2310-309)
developments in, 24:48064(R) (ORNL-4581)
developments in Hungary, 24:13947
developments in industrial, 21:40878 (BNL-11294)
developments in industrial applications of, in Japan, 25: 51479 (A/CONF.49/P-827)
developments in Japan, 24:31403
developments in Poland in, review on, 25:2217
developments in pulse radiolysis in Canada, 24:36290
developments in, France, 1966-1967, 24:7477
developments in, Germany, 1969, 24:33704(R) (HMI-B-91)
developments in, New Zealand, 1968, 24:27106(R) (NP-18207)
developments in, of solid organic compounds, review on, 23:13761
developments in, review on, 21:38991
developments in, review on, 24:13941
developments in, review on high-energy, 22:25429
diffusion kinetics in, 25:18447 (CALT-767-P-4-73)
diffusion kinetics in, 24:36265(R) (CALT-767-P-4-63)
diffusion—kinetic equations in, approximate solutions to, 23:24254
dose rate effects on fixed concentrations in, 22:42771
dose-rate and linear energy transfer effects in, correlation of, 22:4175
dose-saturation effects in, theoretical calculations for, 21:14262
dosimetry of high-intensity pulsed electron sources used in, 23:47849
economic and industrial aspects of, 22:18814
effects on biological processes, 23:13772
electron and positive charge scavenging in, 22:21131
electron and positive charge scavenging in, 22:21128
electron attachment studies in, pulse-sampling method of studying thermal, 23:47552
electron decay in pulse radiolysis, fast hydrated, 24: 31343(R) (NYO-3383-18)
electron escape in dipolar system, thermal, 21:42983
electron linear energy transfer tracks in, structure and reactions in, 21:100
electron reactions in, solvated and stabilized, 25:164
electron spin resonance studies of, 23:31358 (CEA-R-3537)
electron states of atoms and molecules in, review on autoionization and predissociation of excited and superexcited, 24:50423
electron transfer studies in pulse radiolysis, review of, 23:47517
electron—ion recombination in, 25:54591 (CONF-700652-(Vol.1), pp 221-58)
electron-hole pairs as primary active species in, 23: 35185
electron-ion recombinations following pulse radiolysis, microwave cavity method for studying, 22:40104 (BNL-12552)
emission from atom with closely spaced energy levels, calculation of line shape of, 25:33085
energy deposition from slow heavy particles in, by collision cascades, 22:25403
energy deposition mechanisms in, 23:13753
energy transfer and localization in, mechanism of, 21: 23946
energy transfer in, 24:16608
energy transfer in pulse radiolysis, 23:35170
equipment and experiment development for pulse radiolysis, 25:8285(R) (RPI-3821-5)
equipment and facilities for pulse radiolysis studies at Chalk River, Canada, 25:41849 (AECL-3853)
equipment and process for using reactor irradiation in, 23:4668(P)
equipment design and costs for, 22:2138
equipment design for power reactor gamma, 21: 40932(P)
equipment for low-energy electron radiolysis, development of cold cathode for, 24:46244(R) (COO-584-46)
equipment for pulse radiolysis studies at high pressure, 23:40722
equipment for pulse radiolysis with picosecond time resolution, design and performance of, 24:16926
equipment for pulse radiolysis, gated photomultiplier, 25:4398
equipment for pulsed, design of pulse generator for Varian V-7700 electron linear accelerator, 23:44780
equipment for research, use of small electron accelerator, 23:15313
equipment for studies in, 21:14237(R) (JLI-2901-75)
equipment for, development of, 22:37775 (BNL-50082, pp 40-78)
equipment for, development of mass spectrometer, 23: 20049
equipment for, performance of continuous tubular radiation chemical reactor, 22:30598
expanding sphere model for liquid, 25:39530
experimental facilities in research reactors for, review of, 22:12123
facility for ethylene dichloride chlorination by, 23:4655
fragmentation mechanisms in neutral molecules in, 23: 13755
free radical losses in, 24:22665(R) (AECL-3521)
free radical production in, ESR studies on, 25:34616
gas chromatography uses in, 24:50321
history and future of, review on, 23:35142
hot atom reactions in, review of, 22:33470
hydrated electron production in, 23:35155
hydrated electrons in, production and properties of, 24: 16584
hydrated electrons in, study of, 23:47500
industrial aspects of, in United States, 22:8153
industrial chemicals production using, 21:45152
inert-gas sensitized radiolysis, processes of, 22:40115
ion neutralization processes in, 23:19751
ion pair mechanisms in, concentration dependence of, 25:54670
ion—molecule reactions in, 24:48115
ion-molecule reactions in, review on, 23:13756
ionic chain reactions in, 21:14237(R) (JLI-2901-75)
ionic fragmentation processes in, 23:13754
ionic processes in, 24:13928
ionic processes in, kinetics of, 22:33440
ionic reactions in, review on kinetics of gas-phase, 24: 27130
ionic recombination in large-dose irradiation of media of low dielectric constant, rate constants for, 21:40918
ionizing particle tracks in, structure of, 23:47525
irradiation techniques in, present state and future of, 23: 11567
kinetics of pulse radiolysis, 22:40119
labeled compound preparation by self radiolysis, 23: 49878
low-temperature processes in, 24:7475
luminescence phenomena in, 25:54598 (CONF-700652-(Vol.2), pp 423-75)
mass spectrometry in, 23:21609(R) (SRRC-14/67)
mechanism of formation of long-lived transients in electron pulse radiolysis, use of swept beams from 2-MeV Van de Graaff accelerator for studies on, 23: 11529 (BNWL-481-2, pp 127-53)
mechanisms in aqueous acid and alkaline glasses, 23:248
mechanisms in aqueous solutions, review on effects of high temperature on, 24:38897 (AAEC/TM-537)
mechanisms in radiobiology, 23:35159
mechanisms in radiobiology, 24:31432
mechanisms in water, aqueous solutions, and simple organic compounds, review of, 22:27777
mechanisms in, effects of pH and scavenger concentration on radical yields from, 23:47505
mechanisms in, survey of, 21:38977
mechanisms in, survey of, 22:33467
mechanisms in, use of accelerated photoelelctrons to duplicate excitation, 25:54597
mechanisms of low-temperature, 23:31389
mechanisms of, effects of additives on, 21:28037
molecular processes in, 25:29132(R) (NYO-3558-24)
molecule activation in, primary events of, 22:25401
molecule activation in, theoretical studies of, 22:25400
neutron generators for studies in, use of accelerators for, 25:2120 (CONF-700322-, pp 231-48)
nuclear transformations in irradiated solids, role of polynuclear recoil species in, 23:6194
organic synthesis using large radiation sources, status of Israeli, 21:41150 (NP-16994)
particle track structure in, models for, 25:54589 (CONF-700652-(Vol.1), pp 19-49)
physical measurements in, review on, 23:24217 (KURRI-TR-17)
platinum microelectrode for use in, 21:40897
polarizability of molecules in, theory of, 23:21744
polymerization in, kinetics of, 23:9428
polymerization in, research on, 21:8330(T) (AEC-tr-6806)
polymerization reactions in, ESR studies of, 24:46269
primary processes in, review of, 22:35873
problems in, conference on, 24:50412 (KURRI-TR-62)
processes in industrial, review on, 25:29125
processes in industrial, using accelerators, 25:29126
processes in low-temperature, of organic vitreous liquids, review of, 22:6328
processes in non-polar organic liquid mixtures, review of, 23:19747
processes in organic oxygen compounds, review of, 23: 19748
processes in organic, fundamental, 21:40564(R) (NAA-SR-12395)
processes in, atomic, ionic, and molecular, 22:30591(R) (RRL-2310-231)
processes in, calculations and basic principles of, 23: 49857
processes in, comparison of, with photochemical processes, 22:2149
processes in, primary, 23:35185
processes in, research progress on primary, 25:34613 (TID-25689)
processes in, review of, 22:30599
processes in, review of, 23:6158
processes in, review on, 24:7473
processes in, survey of possible industrial, 22:33430
processes in, symposium on very early, 24:36267 (COO-38-738)
progress at Takasaki Research Establishment of JAERI in, 23:11567
pulse methods for use in, 21:10372 (INR-758/XVII/C)
pulse radiolysis equipment for monitoring at 2000 A, 23: 26307
pulse radiolysis in, research at Royal Institution, London, on, 24:4310
pulse radiolysis in, review of, 22:4174
pulse radiolysis of liquids, review on, 24:48131
pulse radiolysis studies of hydrated electrons using nanosecond electron pulses, 21:45467
pulse radiolysis techniques in, review of, 22:42799
radiation and thermal annealing study after neutron irradiation of solids, 23:4688
radiation sources for use in industrial, in Hungary, 21: 40922
radiation sources for, review of, 22:23233
radical formation in, ESR studies of, 22:27841
radical pair formation in, 25:54665
radical yields in, review on ESR spectral studies on, 25: 21036
radioinduced excitation and ionization of solutions, comparison of, with results from photochemistry, 22: 2151
radioinduced polymerization in, theoretical study of performance of continuous stirred tank reactor in, 23: 24213 (BNL-13037)
radioinduced reactions in, electron transfer processes in, 22:2150
radioinduced syntheses using SHF plasmatron, 21:12475
radioisotope uses in, conference on, 22:28011 (CONF-660503)
radiolysis in radiation biological research, pulse, 23: 28870 (BMwF-FBK-69-11)
radiolysis in, review of pulse, 23:9475
radiolysis of aqueous solutions, reactions in pulsed x, 23: 6170
radiolysis of deeply frozen materials, 24:7475
radiolysis of gases or liquids adsorbed on high-surface-area solids, reaction mechanisms in, 23:9474
radiolysis of liquids, self-absorption of Cherenkov light as indicator of progress of, 25:18453
radiolysis of water and aqueous solutions, review on, 23: 13762
radiolysis processes in organic systems, (E), 22:30155(R) (NAA-SR-12296)
radiolysis techniques in, development of pulse, 25:48540 (AD-717243)
reaction kinetics in, computer program for analysis of, 21:1374 (ANL-7199)
reaction kinetics of chemical transients produced by pulsed electron beam, 21:38957 (ANL-7327)
reaction mechanisms in, 22:2136
reaction mechanisms in, 23:9472
reaction mechanisms in, challenges to spur model for, 23:35133(R) (NYO-3383-16)
reaction mechanisms in, radical scavenging by nitric oxide, 22:2152
reactions at low temperatures in, intermediates in, 23: 38016

reactions between excited and ground state atoms in, cross sections for, 23:48741
reactions in liquid phase in, apparatus using krypton-85 as source for, 22:12344(T) (NSJ-tr-92)
reactions in radiolysis of solutions in different solvents, study based on I/sup 1/2/ rule for stationary concentration of nonbimolecular, 23:9487
reactions in solid organic materials, role of tunnel effect in postradiation, 25:54596
reactions in, apparatus for analysis of gas-phase, 23:40616 (UCRL-18735, pp 5-80)
reactions in, uses of differential thermal analysis for detection of unstable intermediates in, 24:29321
reactions of hydrated electrons in, prediction of thermodynamics of, 23:47501
reactions of ions with molecules in, theory of, 23:47483
reactions of solid surfaces with adsorbed phases in heterogeneous systems, 22:21136
reactions of uncharged transient species in, 25:18454
recoil reactions in, dynamics of, 24:16588
recoil reactions in, Estrup-Wolfgang theory of, 25:193
recoil techniques in activation analysis, 22:8002
research and development at Puerto Rico Nuclear Center, 1968, 23:37857(R) (PRNC-131)
research and development programs in, in Atomic Energy Commission, 24:46285
research at BNL, July 1968 to June 1969, 24:18056(R) (BNL-50169)
research at BNL, July 1969—June 1970, 25:14837(R) (BNL-50230)
research at CRNL during 1970, 24:48391(R) (AECL-3611)
research at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
research at Inst. of Nuclear Research, Warsaw, 1968, 23:51857(R) (INR-1100)
research at Inst. of Nuclear Sciences, New Zealand, 25.44727(R) (NP-18802)
research at Inst. of Nuclear Sciences, New Zealand, Jan.-June, 1970, 25:49037(R) (INS-458)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at Osaka Laboratory, April 1, 1968 to March 31, 1969, 24:11551(R) (JAERI-5022)
research at Puerto Rico Nuclear Center, 1967, 22:48807(R) (PRNC-121)
research by Christies Hospital and Holt Radium Institute, Great Britain, in 1968, 24:2710
research facility for, design study of University of Cologne, 23:26400 (BMwF-FBK-68-47)
research in, description of 2000-Ci cesium-137 facility for, 22:219
research on, 24:13879(R) (UCRL-18887)
research on, 23:16223(R) (NIRS-7)
research on, 1967 summary of French, 23:4460 (NP-17597, pp 7-39)
research problems in, at Institute of General Chemistry, Warsaw, review of, 22:4218
research program and progress at Francesco Giordani Radiation Chemistry and Nuclear Chemistry Laboratory, 23:11538
research program and progress at Saha Institute, Calcutta, 21:27995(R) (NP-16755)
research programs at Takasaki Center, Japan, 23:19759
research programs in, review of, 21:27467(R) (NP-16698)
research programs in, Takasaki Center, Japan, 22:48893
research programs on, summary of USAEC on-site, 22:33379 (TID-4050(1st. Ed.))
research progress in India on, 25:34079(R) (NP-18683)
research progress in, review of recent, 21:17687
research progress in, review of Soviet, 22:12343(T) (JPRS-44048)
research progress in, review of Swedish, 21:19719
research progress in, summaries of off-site USAEC, 22:18811 (TID-4005(Pt.2A)(3rd Ed.))
research progress of Chemistry and Materials Division for April 1 to June 30, 1970 in, 24:48029(R) (AECL-3665)
research progress on, 21:40813(R) (CALT-532-15)
research progress on, 22:48872(R) (CALT-532-37)
research progress on, 22:23055
research progress on, at Technical University, Lodz, Poland, 22:4216
research progress on, at University of Florida, 25:51511(R) (ORO-3106-41)
research progress on, in Japan, 22:4189
research progress on, in Japan, 22:30420
research progress on, in Sweden, 23:47480
research progress on, Osaka Laboratory, Japan, March, 1970, 25:10584(R) (JAERI-5026)
research progress on, review of, 21:1378 (ORNL-3994, pp 40-52)
research review on, 22:40119
review of research in, of hydrocarbons and organic nitrogen compounds, 22:40552
review on, 22:48883
review on, 22:2129
review on phosphorus compounds in, 22:25421
review on synthesis of organic compounds in liquid nonaqueous systems in, 25:54617
sample geometries for fast-neutron irradiation, 22:27807
saturation currents in gas phase radiolysis cells, effects of temperature on, 23:9427
separation processes for, review on development of rapid, 24:14029
short-lived species in, identification and kinetic measurements of, 24:13915
short-lived species in, review on identification and kinetic measurements of, 25:48555
short-lived transients in, pulse-radiolysis system for observation of, 23:299
solvated electrons in, effects of dielectric saturation on, 22:42784
solvated electrons in, production of, 22:40113
spectra of electrons, inorganic and organic radicals, and ions in, review on, 21:15919 (UJV-1625)
spectra of electrons, inorganic and organic radicals, and ions in, review of, 22:40112
spectra relaxation effects in, EPR and NMR, 23:17484
superexcited states in, 22:25377
system for, 21:15965(P)
technical aspects of, review of, 22:33430
techniques of pulse radiolysis, 24:7476
theory for heavy particles in water, 23:19772
theory of pulse radiolysis in electric field, 25:18469
theory of trapped dielectron in, 23:35194
theory of, model of heavy particle tracks for use in, 23:47499
thesaurus for use in, 23:4644 (COO-38-621)
thesaurus for use in, 23:45305 (COO-38-621(Rev.))
track structure in, review on effects of, 25:21040
training programs at Puerto Rico Nuclear Center, 22:23481(R) (PRNC-102)
trapped electron production and reactions in, 25:54593 (CONF-700652-(Vol.2), pp 261-93)
trapped electron production and reactions in, 25:54594 (CONF-700652-(Vol.2), pp 331-64)
use of pulse radiolysis in radiobiological research, 22:40126
uses in chemical industry, review on, 24:46250
uses in commercial chemical processing, review of, 23:24260
uses in industry, 22:2137
uses in industry, 24:38970
uses in industry, 22:33467
uses in industry in Japan, review on, 25:26276
uses in industry, contamination problems in, 25:44377
uses in industry, review on, 24:27139
uses in radiotherapy of tumor cells in man, 22:15022
uses in textile industry, 22:23042
uses in USSR industry, equipment and methods for, 25:51493 (A/CONF.49/P-466)
uses of, economic considerations on industrial, 21:23914
uses of, review of, 21:5912
uses of, review of industrial, 22:2138
uses of, review of industrial, 22:2136
uses of, review of industrial, 23:11567
yield predictions for, current state of a priori, 25:54590 (CONF-700652-(Vol.1), pp 51-136)
yields from γ radiolysis of aqueous solutions, use of spur diffusion model to predict, 23:35244
yields from, effects of chemical nature of gaseous molecules on primary, 23:21742
yields from, theory of, 23:21744
yields from, use of charged particle tracks for measuring, 24:20806
yields in fission fragment, methods for determining, 21:10370(R) (AGN-8196(Vol.2))
yields in gaseous reactions in, method for calculating, 21:5835 (IA-1091)
yields in radiolysis of aqueous solutions, effects of pH and solute concentration on molecular and radical, 22:40114
yields in radiolysis of various gases, use of theory of unimolecular reactions and theory of mass spectra to calculate, 22:2128
yields in, derivation of fundamental relations for, 22:21113
yields in, Monte Carlo calculations of effects of sample geometry on, 22:27807
yields in, theory of primary, 22:2100 (UJV-1883)
yields of primary activations in, theoretical methods of estimating, 22:2160

Radiation Cross Sections
  see Cross Sections

RADIATION DETECTORS
  (Sensing components of specific instruments, sometimes called counters. Specific sensors are of the form Radiation Detectors, Geiger-Mueller.)
  see also Cosmic Ray Telescopes
  see also Photomultiplier Tubes
  see also Radiation Dosimeters
acceptance vectors for neutron monitors, (E), 22:24068
acceptance vectors of cosmic-ray, (T), 21:39842
acceptance vectors of, (T), 22:34317
accuracy for absolute radioactivity measurements, 22:23203
accuracy for monitoring, factors affecting, 23:47780
afterpulses in self-quenching, probability of appearance of, 22:38007
alarm system for monitoring scattered x rays, 22:49089
amplifier and differential discriminator for gamma, design, 24:41661
amplifier for, design and performance of time-sampling, 22:28104
amplifier for, design of low-noise nanosecond-pulse, 21:36384
amplifiers for self-powered, design and performance of low-current, 25:23786
amplifiers for, design of amplitude and timing filters for pulse, 21:39225
amplifiers for, design of high-precision electrometric integrating, 22:2366
analog-to-digital converters for position-sensitive, design of normalizing, 23:40990 (EUR-4289, pp 211-15)
analog-to-digital converters for position-sensitive, design with fast quotient digitilization circuit of, 23:40991 (EUR-4289, pp 217-20)
angular correlation coefficients for, geometric corrections to measured, 22:10541 (MIT-952-4, pp 267-99)
aperture for directional, determination of optimum, 22:4439
arrangement for radioactivity alarm systems, in reactor containment systems, 25:12812 (BNWL-1479)
aural indicator for portable, engineering drawings for, 23:21976
background correction method for, 24:39275(P)
background for radiochemical, for solar neutrino detection underground, 23:42542
background in Weber gravitational, experiments for estimation of upper limit for muon shower signal in, 25:56566
background properties of low-level counting, 22:6578
background subtraction circuit for digital nuclear, 24:36663
background subtraction in, design of circuit for automatic, 23:31536
background subtraction methods for coincidence systems of, 22:49086
barometric coefficient for, altitude dependence of, 21:10642
behavior of Compton diodes, 25:29329
bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
bibliography on, 21:41199 (AED-C-06-17)
bibliography on reactor neutron, 23:38246 (KAPL-M-6961)
bibliography on, for nuclear physics, 22:33635 (AED-C-06-18)
book: Applications of Nuclear Physics, 25:28379
book: Applied Gamma Ray Spectroscopy, 25:13231
book: Applied Radiation Protection and Control. Vol. 1, 25:39872
book: Design of Nuclear Instruments, 25:23805
book: Electronic Devices and Circuits Provided with Radioactive Isotopes, 21:30758
book: Electronic Laboratory Techniques, 23:16131
book: Electronics for Nuclear Particle Analysis, 25:8488
book: Experimental Methods in Nuclear Physics, 21:24232
book: Handbook of Applied Radioactivity, in German, 23:17501
book: Handbook of Recording Instruments for Ionizing Radiation, 21:17822(T) (AEC-tr-6709)
book: Instrumentation in Nuclear Medicine, 22:45299
book: Measurement of Radioactive Nuclides, in German, 25:44
book: Medical Radiation Physics, 25:16275
book: Nuclear Chemistry Digest. Part II. Nuclear Radiation Instrumentation, 23:17746 (HMI-B-79)
book: Nuclear Elctronics, 24:33911
book: Nuclear Physics Measuring Methods for the Detection of Particles and Quanta, 21:1618
book: Nuclear Radioelectronics, 22:4546
book: Radiation Effects on Electronic Systems, 21:6398
book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
book: Radiation Technology, 23:26623
book: Radioactivity Measurements. Practical Manual on the Uses of Nuclear Radiation, 25:55020
book: Radioisotope Instruments in Metallurgy, 22:36050
book: Solid-State Dosimetry of Ionizing Radiation, 24:19250
cables for remote, design of coaxial, 25:8493(P)
cadmium cutoff energies for finite-size, effective, 22:10544 (WAPD-TM-670)
calculation of constants for telescope, for particle identification, 25:18705
calculations for, based on crystallization along particle tracks in supersaturated vapors, 25:21398
calibration and evaluation of, experimental techniques and standards, 21:323
calibration and maintenance for monitoring, 23:47781
calibration and maintenance of, 23:47863
calibration and standards for neutron fluence, kerma, and spectra measurements, 24:36553 (ICRU-13)
calibration for beta dosimetry, use of extrapolation ionization chamber for, 22:4484 (NP-17062)
calibration for detecting alpha particles and x rays, 21:28585(R) (BNWL-247)
calibration for gamma detection at 160 MeV, 21:37653(R) (UCLA-34-P-106-1)
calibration for measurement of diffuse cosmic x-ray background, (E), 22:36761
calibration for radiation protection, 25:39714
calibration for radioprotection, 25:15882 (CEA-R-4009(1))
calibration jig for surface contamination monitoring, 24:7626 (AERE-M-2201)
calibration of chlorine-37 and calcium-71 radiochemical, for study of solar neutrinos, 23:41068
calibration of gamma dose rate, device for, 22:14848 (AERE-M-1763)
calibration of gamma survey, lead attenuators for gamma sources used in, 21:14442
calibration of gamma, description of portable system for, 22:36052
calibration of gamma, for well logging, 23:22112(P)
calibration of gas-discharge, in parallel, quenching scheme for improving, 22:36043
calibration of neutron, 23:11893
calibration of neutron, design of resonance-scattering facility at Argonne CP-5 reactor for, 23:14011
calibration of neutron, graphite prism for, 23:9811
calibration of neutron, use of heavy water-moderated antimony—beryllium and plutonium—beryllium sources for, 21:39259
calibration of OSO-B, (E), 24:51463(R) (N-70-23988)
calibration of photoelectric, use of radioisotopes for, 23:11756 (EGG-1183-1401)
calibration of research reactor, measurement of argon-41 and xenon-133 for, 25:26034 (RISO-M-1215)
calibration of stack-located, for monitoring reactor off-gases, neutron activation method for, 25:54986
calibration of survey, computer processing of data for, 23:33415
calibration of survey, gamma and neutron irradiation facility for, 25:44587 (UCRL-51049)
calibration of total absorption counter using monochromatic photon beam from VEP-1 storage ring, 21:40327
calibration of, 14-MeV neutron source for, 25:9940 (BARC-499)
calibration of, circuit design for, 22:16891(P)
calibration of, cobalt-60 gamma irradiation facility for, 23:45444 (RISO-M-932)
calibration of, curium-244—carbon-13 6.130-MeV gamma source for, 24:44285
calibration of, design of facility for, 23:43448

calibration of, design of standard cesium-137—barium-137 gamma source for, 23:31489
calibration of, development of alpha-excited fluorescent x-ray sources for, 23:13950 (NYO-3491-3)
calibration of, equipment and methods for, 23:47782
calibration of, fabrication of radioisotope sources for, 24:5957(P)
calibration of, for measuring moisture content of soils, 21:3328
calibration of, for monitoring surface contamination, 23:13986 (KURRI-TR-6)
calibration of, gamma and neutron sources for, 23:33386 (LA-4090)
calibration of, gamma irradiation facility for, 24:39119 (RD/B/N-1624)
calibration of, K-fluorescence x-ray source for, 25:44735
calibration of, nonrelativistic nuclear reaction kinematic crossover angles for, 23:19024 (AD-672932)
calibration of, nonrelativistic nuclear reaction kinematic crossover angles for angular, 23:10884
calibration of, procedures for, 23:2569
calibration of, thermal neutron source for, 25:54892 (LA-4745)
calibration of, use of computers for, 21:14376
calibration of, x-ray source for, 24:48290(P)
calibration systems for satellite-borne, 24:39251
characteristics and performance of portable survey, program for evaluation of, 24:22981 (BNWL-SA-1947)
characteristics for low-level activities, nomogram for, 24:14261
characteristics for personnel monitoring, 24:50574
characteristics for radiation protection, survey on, 25:39714
characteristics of, for determining kidney function, 22:51765
characteristics of, on TD-1, HEOS-B, and COS-B, (E), 25:58829
charged-particle multiple Coulomb scattering in circular, in coincidence measurements between nuclear reaction products, 21:24210
circuit components of, charge transfer properties of organic materials for, 21:16220 (RT/EL-(66)10)
circuit design for beta—gamma, coincidence, 22:19129(P)
circuit design for pulse measuring lines for neutron, input, 21:28327
circuit diagrams for SEFOR transient neutron flux, 23:33082(R) (GEAP-5754)
circuit for half-life measurements, multiscaler, 24:33894
circuit for measuring and recording pulse shapes and risetimes from, 23:667
circuit for monitoring correlation in pulse sequences from, micrologic integrated, 25:18701
circuit for particle identifier E—dE/dX, multiplier, 23:19955
circuit for particle identifier E—dE/dX, multiplier, 23:4806 (LA-DC-9626)
circuit for pulse-type, 22:25660(P)
circuit for pulse-type, Campbelling-type, 25:407(P)
circuit for pulse-type, for simultaneous time and energy determination, 24:23004(P)
circuit for, design of cable-feed, 22:21328
circuitry for ΔE—E telescopes of, for charged-particle identification, 25:57722 (CEA-R-4183)
circuits for activation analysis, design of, 24:5912(P)
circuits for multiple telescope, multiplex switch, 25:37591
circuits for particle identification in coincidence, design of mass analysis, 21:17929
circuits for position-sensitive, design of pulse division, 22:37972(T) (ANL-Trans-623)
circuits for pulse-type, design of portable transistorized scaler, 22:28066 (NP-17360)
circuits for pulse-type, for reducing background, self-coincidence, 23:4821
circuits for pulse-type, standardization of linear, 24:44257
circuits for satellite-borne, logic, 25:39722
circuits for simultaneous linear and logarithmic outputs, 23:38378(P)
circuits for systems of multiple, description of logic, 22:14791
circuits for, calculation of transient response of pulse, 24:14278
circuits for, characteristics of filter, 24:33895
circuits for, description of monolithic, 24:36550 (AECL-3566)
circuits for, design of pseudo-coincidence, 25:21404(P)
circuits for, design of pulse division, 22:36024(T) (ANL-Trans-622)
circuits for, design of transient pulse rejection, 21:14492 (CONF-660221-, pp 345-7)
circuits for, design of variable-delay gating, 25:42063
circuits for, development of, 22:23266 (JEN-183-DF/1-56)
circuits for, development of integrated, 23:22127
circuits for, development of solid-state plug-in, 21:14496 (DP-1079)
circuits for, facing-coupled Esaki diode pair, 23:728
coincidence circuit performance for particle identification, pile up elimination, and low-energy gamma measurements, 22:313
collimator for radiometric instruments, design of, 22:28199(P)
collimator optimization for monitoring planar radiation source, 23:47743
collimator shielding for, calculation of solar proton flux in right circular cylinder, 24:4451
comparison of 8-detector and 16-detector systems of, for measuring regional cerebral blood flow, 24:12168
comparison of, during solar-flare increases, 21:24884
conference on position—sensitive, 25:8469 (JUL-Conf-4)
conference on radiation protection monitoring, 23:48051 (STI/PUB-199)
conference on, Vienna, Austria, Nov. 23-27, 1970, 25:57726 (STI/PUB-269)
construction of parallel multiple, to measure ionization cross section of argon ions in inorganic gases, 22:45508(R) (PG-Report-826)
construction of SNEAK reactivity meter, description of, 23:4305(T) (EURFNR-519)
control and pulse transmission system for assembly of multiple, 22:2443
control system for gamma angular correlation measurements, 24:25330 (UUIP-673)
control system for high energy, diode light sources for analog and time, 22:43104
converter for array of, for use with PDP-8 computer, 22:14811
cooling device for, Peltier thermoelectric cascade, 25:37692
corrections for scattering in neutron dosimetry and flux measurements, 25:26483
count rate estimation of Poisson pulse train using sequential analysis, 24:48265 (ZJE-64)
counting losses in pulse-type, method for determination of, 24:36574
counting probabilities for, relativistic quantum theory of observation for, 21:28269
counting probability for, photoelectric, 21:41226
counting rate for particle beams, effects of space-time fluctuations on, 21:28268
counting rate measurements with, stochastic analysis of, 21:6205 (UCRL-50146)
counting rates of, statistical errors and time behavior in measuring, 21:19930
counting statistics for, nomogram for, 22:28080
counting statistics in nuclear particle detection, 21:3296
counting statistics in nuclear, origin of Poisson, 23:43555
counting statistics of paralyzable and non-paralyzable, 23:21964
counting statistics of, maximum likelihood principle description of method of effective, 21:10658
counting system for, design of preamplifier for fast, 21:32477
counting systems for pulse type, design of, 24:16865(P)
cross correlation method for determination of in vivo radioisotope location, 23:45508 (BNWL-1051(Pt.3), pp 18-21)
current characteristics of superconducting thin film, 23:24419 (AD-679027)
current measurement devices for, design and performance of 10^{-9} to 10^{-15} A, 22:312
current-voltage characteristics of, for detecting secondary electrons, 21:14448
data acquisition and storage for, on-line computers for, 23:7728 (CEA-R-3460)
data acquisition system for large multiple arrays of, fast buffer memory for, 24:39267
data acquisition system for pulse-type, development of modular, 25:8483 (PH-1)
data acquisition system for telescope, for particle identification, 25:6537 (LYCEN-7049)
data efficiency calculations for, computer programs for, 22:16475
data from alpha and gamma, design and operation of recording system for, 21:32536
data from gamma effects of reducing fwhm on statistical, 22:325
data from, design of computer-based acquisition system for processing, 22:28128
data from, statistical analysis of counting, 22:10566
data from, theoretical evaluation of using inverse probability method for processing, 22:25688
data from, theoretical treatment in real time for numerical, 23:41014
data obtained with gamma, directional dependence of, 22:2426 (ABS-THH-1037)
data processing for, description of, 23:38318
data processing for, design of computer for, 24:41714(P)
data processing from, least-structure techniques in unfolding, 25:40745
data processing system for radioisotope determination, computer-based, 24:36578(P)
data processing system for telescope, for particle identification, 25:18718
data readout and storage system for neutron well logging, 23:22111(P)
data recording system for EAS experiment, digital, (E), 21:35041 (BMwF-FBK-67-41)
data recording system for neon flash tube, vidicon, 24:11812
data recording systems for, used for neutron detection from underground nuclear explosions, 23:22040
data telemetry system for balloon-borne, 24:39396
dead time correction for counting distribution in, methods for, 24:4453
dead time correction for determination of activity of mixture of radioisotopes, 23:4810
dead time correction for multichannel analyzer for measuring half-life of short-lived radioisotopes, 25:8515
dead time corrections for counting rapidly decaying sources, 25:42048 (ANL-7710, pp 263-364)
dead time corrections for, statistics of, 25:6535 (CNEA-262)
dead time in, coincidence method for measuring, 23:2627
dead time losses in, method for automatic compensation of, 22:14816
dead-time analysis of, use of radioisotopes and computers for, 21:19926
dead-time correction for, 25:18706
dead-time correction for, live-timer method of automatic, 23:9703
dead-time corrections for slow, 21:45413
dead-time corrections in, 23:646
deadtime correction for detection of particles with Poisson distribution, 24:11806
deadtime correction for pulsed beams, 24:48264 (RLO-1925-42)
deadtime correction for pulsed beams, 25:15903
deadtime correction in counting rapidly decaying sources, 25:57732
deadtime corrections in two-parameter system of four, 23:40992 (EUR-4289, pp 237-42)
deadtime losses in, automatic compensation of, 24:9655
deadtime losses in, method for automatic compensation of, 23:21958
description and use for nuclear medicine, 22:25911
description for calibration of radiation sources, 24:16840(T) (UCRL-Trans-10429)
description for laboratory and environmental monitoring, 24:488
description for monitoring and evaluation of radioisotopes in respiratory system, 24:22993
description for monitoring at Nimrod, 23:50142
description for monitoring at Nimrod, 23:52076
description for monitoring at NINA electron synchrotron, 23:50143
description for monitoring contamination in laboratories, 25:24127 (CEA-N-1408(1))
description for monitoring in nuclear power plants, 25:34869 (SZS-2/71, pp 7-11)
description for monitoring on lunar surface, 24:27349 (N-70-21176)
description for MSRE control and process systems, 22:16159 (ORNL-TM-729(Pt.2A))
description for neutron flux monitoring in British reactors, 23:38345 (CONF-681064-5)
description for on-board monitoring of radiation in seawater, 25:10817
description for studying nuclear reactions and radioactive decay, 25:23814
description for uranium mining, 24:36571
description of, 24:50574
description of, 21:16078
description of absolute bolometer, for atomic beams, 25:32228
description of coincidence, for analysis of fast neutron reactions with nuclei, 23:4818
description of delayed-neutron, for use in burst can detection system, 22:10110(P)
description of dual, for measuring iodine-131 and iodine-132 uptake by thyroid, 25:18898
description of electroluminescent, 23:9711(P)
description of electrostatic fission product collection, for use in burst can detection system, 22:10110(P)
description of fissile radiator—solid-state track, for neutron dosimetry, 22:21358 (ORNL-TM-2120)
description of fission foil—solid-state track, for detecting neutrons, 23:4825
description of gamma logging, for uranium prospecting, 23:35490
description of gamma monitoring, for atomic energy installations, 25:15789
description of modular, for health physics near nuclear centers, 24:14277
description of neutron flux and heat output combined signal, for instantaneous measurement of output, 22:14358(P)
description of neutron-sensitive and -insensitive mounted thermocouple junctions for neutron flux measurement, 22:20974(P)
description of personnel monitoring system for radiation accidents, 23:47772
description of personnel, aboard Apollo spacecraft, 22:37993 (N-68-21647)
description of portable survey, 25:34868 (SZS-2/71, pp 1-6)
description of power reactor neutron flux monitoring, 25:39145 (IAEA-119, 5p.)
description of preamplified Spiraltron electron multiplier, 24:25278
description of pressurized water reactor protection system, 25:36995 (WCAP-7669)
description of safing wire, with cobalt target, aluminum pulling wires and tungsten kink wires, 22:16305(P)
description of satellite-borne system for cosmic ray measurements, 24:2447(T) (JPRS-49167)
description of SEFOR transient neutron flux, 23:26085(R) (GEAP-5705)
description of Soviet, aboard first three sputniks, 22:15412(T) (AD-655364)
description of system for monitoring radioactive effluent in storage tanks, 22:40375(P)
description of telescope system for identification and spectroscopy of charged particles, 23:40981 (BMwF-FBK-69-8)
description of vitreous composition containing fissile material for measuring neutron flux, 24:39277(P)
description of, for cosmic neutron flux monitoring on OGO satellite, 23:48766
description of, for isotope localization in man, 22:40433
description of, with incorporated photomultiplier, 21:10675(P)
design, 24:25332
design and configuration of, for automatic alpha-gamma angular correlation, 21:8630 (MIT-952-3, pp 349-402)
design and construction for proton polarization measurements, 21:19928
design and construction of self-powered, for gamma radiation, 25:55011(P)
design and data reduction of cosmic-ray, for Pioneers 8, 9, and 10, 24:19202 (N-70-13082)
design and development of counting, 21:42964(R) (NYO-844-71)
design and development of position sensitive, for high-energy beams, 24:16879 (CERN-69-29, pp 123-60)
design and fabrication for nuclear radiation measurements, 22:33698
design and operation for measurement of surface contamination, 24:9643
design and operation of, 23:19941
design and operation of gas discharge, 25:2440
design and operation of HANDS system, for detecting fallout at high altitudes, 25:41932 (AD-719619)
design and operation of nickel-63 electron absorption, for gas chromatography at high temperatures, 21:45444

design and operation of Omega project, for complicated high-energy interactions, 24:16881 (CERN-69-29, pp 181-206)
design and operation of secondary emission, for thermal neutron detection, 24:14245 (CEA-N-1264)
design and operation of self-powered, in LMFBR, 22:12570 (ANL-7380, pp 139)
design and performance for detection of fission products, 21:30719
design and performance for measuring electron-capture decay of argon-37, 21:39254
design and performance for mesons (K^+), 21:43243
design and performance for monitoring rf radiation, 21:32497 (LA-3722)
design and performance for radiological monitoring, NCRP recommendations for, 25:34894
design and performance for study of neutron and gamma radiation near Savannah River Production Reactor, 23:36823(R) (SRO-143)
design and performance of cascaded channel plates as high gain electron multipliers for x-ray detection, 25:48944
design and performance of cobalt self-powered, for in-core neutron flux measurements, 25:44583 (KFK-1355)
design and performance of collimated, for 5-eV to 5-MeV neutrons, 21:45396
design and performance of counter telescope, for polarization measurement of fast neutrons, 21:19927
design and performance of Daly-type secondary emission, for short duration bursts of ions, 24:48295
design and performance of device for measuring low-concentration beta-active gases, 22:40371
design and performance of electron current, for measuring high neutron flux from reactor cores, 23:41016
design and performance of gravitational, 24:48299
design and performance of high-resolution cooled system of preamplifiers and, for detection of charged particles, 22:315
design and performance of mechanical amplifier with two degrees of freedom, for detection of gravitational waves, 24:18288
design and performance of microwave secondary-emission heavy particle, 21:6238
design and performance of molybdenum trioxide films for detecting atomic hydrogen beams, 23:7741
design and performance of proton-recoil, using plastic scatterer for detecting fast neutrons, 22:43068
design and performance of pyroelectric, for infrared-radiation detection, 21:45375(T) (UCRL-Trans-10127)
design and performance of satellite-borne retarding potential analyzer with photoelectric detector for extreme ultraviolet and soft x-ray detection, 24:4423 (LA-4251)
design and performance of secondary-emission monitor for 60-MeV linear accelerator, 21:21363
design and performance of spinner, based on fracture of liquids due to ionizing particles, 22:21341
design and performance of telescope, for particle identification using ORTEC 423 identifier, 25:26490 (ANU-P-514)
design and performance of track chamber with charge multiplication in film electrodes, 25:51891 (JINR-P13-5780)
design and performance of vanadium beta emission, for neutron flux monitoring in reactors, 23:38240 (AE-359)
design and performance of, for detection of x rays, 21:28206(R) (EGG-1183-2134)
design and performance of, using boron-10 (n,α) lithium-7 reaction, for use in PULSTAR and TRIGA research reactors, 22:43048
design and use for nondestructive testing of coatings, 22:23242
design and use of portable, for continuous air monitoring, 21:14443
design and use of, for intracavitary measurements, 21:6511
design and uses in nuclear physics, book on, 22:30846
design and uses of negative-pressure, rotational, bubble-chamber-type, for measuring very low neutron fluxes and spontaneous fission rates, 22:10560
design and uses of, employing image intensifiers, 21:24221
design and uses of, survey on, 22:43161
design based on thermal expansion measurements using strain gage, 25:37606(P)
design characteristics of chemical shim fluid monitoring, for pressurized water reactors, 25:54069(P)
design concepts of self-powered, for neutron detection, 23:16076 (AECL-3224)
design criteria for criticality detection system, 23:11754 (BNWL-SA-2101(Rev.))
design for absolute measurement of α emission and spontaneous fission events, survey of, 23:5945 (NAS-NS-3112)
design for continuous measurement of the concentration of radioactive aerosols, 22:51237
design for continuous recording of β emission by phosphorus-32 in tumor transplants in rats, 22:12851
design for control of plutonium contamination, 22:23551
design for cosmic x-ray sources, (E), 23:48635 (N-69-31004)
design for detecting and measuring fission products, 22:14820(P)
design for detecting beta activity of aerosols in laboratories, 21:28445 (SZS-14/66)
design for detection of alpha particles in urine, engineering drawings for, 23:16125
design for detection of hard gamma and x radiation, 21:36355(T) (SC-T-67-0944)
design for detection of heavy charged particles and nonrelativistic quarks, 21:30714
design for detection of $\tau + d \rightarrow 2n + e^+$ and anti $\tau + d \rightarrow$ anti $\tau + n + p$ interactions, 22:44314
design for diagnosis of heart and lung functions, 22:23589(P)
design for electromagnetic radiation, 21:1639(P)
design for electron and proton measurements in the ionosphere, 25:11813
design for environmental monitoring, optimization of, 25:42094
design for finding direction of emission of radiation, 23:651(P)
design for health physics uses, 21:28426 (ANL-7291)
design for high-energy particle detection using transition radiation in optical region, 24:2495
design for hot-cell examination of irradiated plutonium, 22:4377
design for identifying radioisotope-labeled aircraft, 22:43141(P)
design for in-core monitoring of pulsed reactor transients, 24:31108
design for ionization detection, using radiation sources, 23:24442(P)
design for ionospheric measurements aboard rockets and satellites, 23:24480 (AD-675154)
design for irradiated fuel in EBR-II, 21:21755(R) (ANL-7302)
design for low-level measurements, 22:2238
design for measurement of deformation of neutron-activated organic films during rolling, 24:16908(P)
design for measurement of low-level β activity, 21:39435
design for measurement of metabolism of carbon-14-labeled substrates in biological systems, 21:39331
design for measurement of relativistic particle energy, 22:23326
design for measuring activity per unit length of radioactive wires, 23:24441(P)
design for measuring beam position on targets, 23:22048(P)
design for measuring charged particle coordinates using secondary electrons, 23:24456
design for measuring half-lives of aluminum-28 and vanadium-52 simultaneously, 21:6234
design for measuring intensity of mixed radiation, 21:14463(P)
design for measuring neutron flux densities, 22:4449(P)
design for measuring radioactivity of water, 23:662(P)
design for measuring weak radioactive samples, 21:4696
design for monitoring alpha particles and neutrons, (E), 22:15153 (ANL-7313)
design for monitoring alpha-active aerosols, 21:26167
design for monitoring fission products in reactor coolants after fuel element rupture, 23:643(P)
design for monitoring radioactivity in water, 21:26208(P)
design for neutron radiography, 22:10618
design for neutron radiometric analysis of hydrogen compounds in soils, 22:38122(P)
design for PRO Reactor fuel element damage, 21:21707
design for pulsed neutron well logging, 23:22110(P)
design for radioactive gases, 21:14425 (BNL-50028)
design for radioisotope uptake measurements, 23:38257
design for radiometric well logging, 21:22186(P)
design for satellite experiment of electron, (E), 21:6233
design for scanning of tumors, 21:28582(P)
design for soil moisture measurement, 22:23131 (CONF-680112-1)
design for solar neutron experiment, (E), 25:49638 (AD-719944)
design for total body monitoring of personnel, 25:4335(P)
design for tracing water flow in porous media by (γ,n) reactions, 21:3336(P)
design for tracking sources of penetrating radiation at high angular velocity and resolution, 25:32295(P)
design for use in animal physiology, 21:34650(R) (BNWL-322)
design for well logging, 23:7883(P)
design modification for charge recognition in $e^+ + e^- \rightarrow e^+ + e^-$ interactions at Adone, 22:48205 (ISS-68/20)
design of 14-MeV neutron, for well logging, 22:28189
design of alpha—beta, for monitoring plutonium-239 in air in presence of radon, 23:29165
design of AN/GKQ-4 detector—telemetry system for monitoring fallout, 22:33633 (AD-666659)
design of anticoincidence beta—cosmic ray, 21:28277(P)
design of arrays of photomultipliers for detection of atmospheric light signals from cosmic showers, 25:2490
design of automatic, for radioactive deposits on planchets, 23:22032
design of baloon-borne counter-telescope, for detection of cosmic-ray alpha particles and protons, 25:42159
design of calorimetric, for measuring energy flux and beam power of 5- to 20-keV x rays, 22:16876
design of centralized automatic air monitoring system of, 23:47778
design of channel electron multiplier as, 21:41302
design of cobalt-59 containing, for neutron flux measurements, 21:26207(P)
design of colorimeter, for measuring x-ray energy absorbed in gold target, 22:43040
design of Compton, for intense gamma fluxes, 22:21318 (UCRL-50176)
design of computer-controlled many-component system of, 25:15899
design of cosmic x-ray focusing telescope, (E), 22:36567 (N-68-16582)
design of cryogenic system for measuring radioactivity of gases, 23:41026(P)
design of dielectric-type, for charged particle detection, 23:33414(P)
design of directional, 25:23823(P)
design of ΔE—E telescope of, operating on-line to computer, 23:29200
design of electromagnetic, for magnetic monopole detection using superconducting elements, 25:21438
design of electron energy-loss analyzer, 22:49107
design of electron multiplier-type, 23:26521(P)
design of electroscope, 23:43510 (AD-685877)
design of evacuated chamber for measuring alpha particles from polonium-210 source, engineering drawings for, 23:16127
design of four-detector system for γ-γ angular correlation measurements, 22:28074
design of gamma-compensated self-powered, for in-core neutrons, 25:26458
design of gaseous discharge, operating with image intensifiers for beta particles, x radiation, and gamma radiation, 23:38281(P)
design of gold plated aluminum foil secondary emission, for electron beams at 1.5 to 18 GeV, and positron beams at 6 and 11 GeV, engineering drawings for, 23:29225
design of high-temperature, 23:31527(P)
design of isosensitive scanning technique for whole-body, 21:10972
design of luminescent compound-coated prism, for radiation intensity measurements, 24:29540(P)
design of multidirectional multipolarization antennas for detection of scalar and tensor gravitational radiation, 25:53343
design of multilayer electrode-type, with output independent of energy distribution of radiation, 22:49073(P)
design of neutron coincidence, for international safeguards and arms control applications, 23:47729 (AD-689733)
design of neutron criticality alarm system, engineering drawings for, 25:21408
design of nuclear emulsion, for particle asymmetry measurements in inner radiation belt, (E), 22:47894(R) (N-68-23790)
design of optical system for visible and infrared, with wide field of view, 22:21332(P)
design of paraffin- or polyethylene-moderated, for neutron rem measurements, 22:23331
design of particle impact, with oscilloscope readout, 25:46627(P)
design of period meter for reactor control, 21:23686(P)
design of personnel, for monitoring radioactive aerosols, 22:23306(P)
design of portable, with system for computing working level exposures in uranium mines, 24:19288 (MIT-952-6, pp 185-211)
design of position-sensitive, 24:7639(P)
design of position-sensitive telescope, for neutron-induced reactions, 24:20996
design of position-sensitive, based on superconducting indium strips, 25:42097
design of probe type, for use in radioisotope tracer studies for diagnosis, 25:21772
design of sandwich-type, for thermal and epithermal neutron detection in well logging, 23:22109(P)
design of satellite-borne, for detecting cosmic radiation, 23:4805(T) (JPRS-46925)
design of secondary emission monitor, secondary emission properties of single metal foils for, 23:29148 (DESY-69/12)
design of self-powered PENA, for neutron flux measurements, 25:32207 (AERE-R-6732)
design of self-powered ytterbium, 25:57755(P)
design of self-powered, for neutron detection, 22:36073
design of self-powered, for neutron detection, 25:57728(P)
design of self-powered, for neutron dosimetry, 25:57776
design of sensitive gamma, with direct-reading in flux and dose rate, 22:30830
design of sensitive γ, for determining radioisotope content in seawater, 22:2256
design of simulation, for radiological survey training, 21:3414(P)
design of solid-state track alpha, for personnel monitoring of radon and radon daughters, 23:9939 (ORNL-4316, pp 231-69)
design of telescope, for monitoring of proton beams on internal accelerator target, 25:31064
design of telescopic detector probe for radiation monitoring, 22:47325(P)
design of temperature-compensated, 21:39265(P)
design of vacuum-diode, for measuring high-intensity gamma-ray flux, 22:4446
design of, employing solidified particle tracks in supercooled liquid, 23:6298(P)
design of, for in vivo measurement of plutonium-239 lung burdens in man, 21:12951(R) (LA-3610)
design of, for measuring deposition of radon daughters in man, 21:18060
design of, for measuring tritium compound sorption, 21:6404
design of, for SNAPTRAN-2, 21:12219(R) (IDO-17167)
design of, using filter paper, for measuring radioactivity of aerosols, 22:19127(P)
design proposals for NAL Synchrotron facilities, 1969 Summer Study on, 24:50614 (TID-25473(Vol.3))
design with gas-discharge tube connected to rf antenna, 23:19956(P)
design with sample changing device, 23:16093(P)
design, development, and performance of, at Chalk River, Ontario, 23:35723(R) (AECL-3199)
design, operation, and performance of parallel-plate vacuum-chamber-type, for spectral measurements of electrons liberated by x radiation, 22:43092
development, 23:16091 (ORNL-4335, pp 20-4)
development and testing for fissionable material analysis, 25:23755(R) (LA-4605)
development and use for high-energy physics research, 22:24570(R) (UCRL-17876)
development and use in health physics, 23:35457 (BNWL-SA-2150)
development and uses of, review on, 23:21970
development at C.E.A, 21:34544
development at CEA, 22:23276
development at Chalk River during 1971, 25:49319 (AECL-3961)

development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development at Idaho Nuclear Corp., 1970, 25:46650 (IN-1407, pp 255-415)
development at JAERI, 1967, 23:17749 (JAERI-5017, pp 107-30)
development at LRL for environmental monitoring, 24:50901(R) (UCRL-50007-70-1)
development at National Inst. of Radiological Science, 24:39220 (NIRS-8, pp 1-17)
development at NRTS, 1969, 25:368 (IDO-12073, pp 25-7)
development at ORNL, 22:21314 (ORNL-4219, pp 30-5)
development at ORNL, Sept. 1969—Aug. 1970, 25:13318(R) (ORNL-4620)
development at Scientific Institute for Nuclear Instrumentation in Soviet Union, 22:6554
development at Univ. of Washington, 1971, 25:46021(R) (RLO-1388-139)
development based on Campbell's theorem for detection of gamma radiation and neutrons, 21:32440
development based on pyroelectric effect of ferroelectric materials for gamma- and x-ray detection, 23:607(R) (AD-671610)
development during 1968, 24:14246 (CONF-681210-(Vol.2))
development for area, environmental, and personnel monitoring at AECL during 1970, 25:8666(R) (AECL-3728)
development for beta and gamma detection and measurement, review of, 23:16094
development for biological research, 21:22772
development for clinical use, exhibition of, in Grenoble in 1968, 24:25527
development for control measurements of low-level contamination in industry, 21:32325 (CONF-661203)
development for cosmic x and gamma ray detection, (T), 23:1096
development for electron and meson (π^-) discrimination at 1 to 20 BeV/c, 21:26150 (MIT-2098-299, pp 35-51)
development for health physics at CRNL during 1969, 24:39425(R) (AECL-3565)
development for health physics, review of, 23:11808
development for high-energy particle detection and analysis, problems in, 24:39361
development for high-energy particles based on x-ray transition radiation, 25:10877
development for in-core gamma monitoring for reactor power measurements, 25:366 (AECL-3564)
development for low-activity and low-concentration measurements of beta sources in water, 21:28253
development for low-level neutron flux monitoring, 24:20980 (BNWL-946)
development for lunar surface analysis for elements, 21:36361
development for manned space travel, 21:322
development for measuring energy of high-energy particles using transition radiation, 23:7791(T) (NP-tr-1717)
development for measuring fast and intermediate neutron spectra, 22:48424 (RPI-328-133, pp 35-55)
development for measuring particle concentrations and radioactivity concentrations of alpha-active aerosols, 25:18685(P)
development for measuring radioactivity in air, soil, and water in environs of Juelich nuclear research center, 24:36555 (JUL-603-ST, pp 93-100)
development for measuring radioactivity in marine environment, 24:41456 (AD-704877)
development for monitoring, 23:16092 (ORNL-4335, pp 25-33)
development for monitoring at nuclear installations, survey of, 23:7733 (EEMTIC-67-3-1)
development for monitoring at ORNL, 24:7631 (ORNL-4459, pp 23-31)
development for monitoring criticality accidents, 24:22982 (CEA-CONF-1420)
development for monitoring fission products in NASA Research Reactor coolant, 24:9638 (N-69-38766)
development for nuclear medicine in Germany, 23:50710
development for nuclear medicine, survey of, 23:16111
development for pharmaco-medical studies, review of, 21:22496
development for plutonium-239 determination in vivo, 23:41130 (IDO-12071, pp 14-17)
development for radiation measurements in space, review of, 22:49093
development for radiation protection, 24:48282
development for radiological protection during radiotherapy, survey on, 25:8487
development for relativistic particle detection based on x-ray transition radiation, 23:43592 (BNL-13906)
development for studying shielding materials, 22:15003(T) (AD-662586)
development for tracer-level counting facility, 23:9754 (NP-17514, pp 63-85)
development for use in radiodiagnosis, 21:43495
development for use with fluoride volatility process, 21:45192 (ANL-7325, pp 50-98)
development in France, 23:50128
development in France, survey of, 23:16080 (CEA-CONF-1189)
development in Italy, 24:9660
development in Sweden of self-powered high flux neutron, for power reactors, 25:39160 (IAEA-119, 16p.)
development in Yugoslavia, 25:51846 (A/CONF.49/P-352)
development of alpha, beta, gamma, neutron, and heavy-particle, review of, 23:2622
development of alternative RADEE logistical, for monitoring for civil defense, 23:43512 (AD-687388)
development of cadmium sulfide, for fast neutron detection based on induced conductivity from beta decay of activated radioisotopes, 25:39725
development of charged particle, for satellite, rocket, and laboratory studies of magnetospheric boundary regions, 25:51848 (AD-718110)
development of continuous-dynode electron multiplier, for detection of tritium and carbon-14 in thin-layer radiochromatography, 24:25287
development of disc—cylinder antenna, for measuring scalar component of gravitational radiation, 25:47971
development of electron multiplier for detecting x rays, electrons, and charged particles, 23:9705
development of energy-independent, for laboratory and space detection of 1.0- to 10-keV hydrogen atoms and protons, 21:45393
development of fast-response autocurrent, using cobalt-59 emitter for neutron fluence measurements, 24:39214 (CEA-N-1330)
development of fast-response miniature fission thermocouple, for neutron flux monitoring in reactors, 23:38247 (LA-4126)
development of fission couples for fast-response temperature measurements, 24:16832 (CONF-690910-, pp 366-77)
development of gallium chloride and lithium chloride, for solar neutrino detection, 25:18720
development of gas-discharge, review of, 23:43561
development of gas-filled electron and x ray, review of, 21:1603
development of gaseous-discharge, for localization of charged particles, 24:16880 (CERN-69-29, pp 161-80)
development of glass chamber, using liquid—liquid phase separation for detection of charged particle, 25:57727
development of helium discharge—condensation chamber, 22:40461
development of in-core neutron flux monitors, 24:44270
development of in-core neutron, based on resistivity change in tungsten, 24:44326 (CEA-N-1288)
development of in-core neutron, for use in fast reactors, 24:4044
development of in-core, for Halden reactor, 23:43125(R) (HPR-109)
development of indium and tin superconducting films as, 25:42080
development of magnetic neutral particle counter, (T), 21:3251
development of methods for track detection in liquids and solids, 25:32270 (JINR-P13-5623)
development of microwave resonant cavity for in-core thermal neutron flux detection, 24:39268
development of modular, 24:29613
development of n—γ discrimination, for studying A(x, nγ)B-type reactions, 21:45365 (LYCEN-6738, pp 191-200)
development of n—γ discrimination, for studying deuteron reactions (d,n)2α with lithium-7 at 2 MeV, 21:45364 (LYCEN-6738, pp 180-90)
development of negative electron affinity secondary emitters for relativistic particle detection, 24:21014 (BNL-14466)
development of neutron, 23:41016
development of neutron image intensification system, 21:23589(R) (ANL-7308)
development of neutron, for reactor cores, 21:23659
development of neutron-multiplicity monitor for operation at sea level and 3800-m elevation, 22:308(R) (N-67-19359)
development of photoelectric, for 10- to 400-A x radiation, 22:10547
development of piezoelectric, for high-energy electrons, 23:35516
development of portable survey, review of, 23:47776
development of position-sensitive, based on avalanche of ionization electrons in noble liquids, 25:32216 (UCRL-20135)
development of power reactor in-core, 24:7019
development of pressurized water reactors, 24:38505
development of proton-recoil telescope for fast neutrons, 22:39586
development of reactor fuel element failure detection system, 23:9813(P)
development of ruggedized self-powered, based on Compton scattering in dielectrics for high-dose gamma detection, 24:50548 (N-70-20649)
development of secondary-electron, for electron and photon beam energy measurements above 5 GeV, 25:56609(P)
development of self-powered in-core neutron, for use in power reactors, 22:12084(R) (BAW-3647-6)
development of self-powered, for in-core fast-neutron flux monitoring, 25:15966 (WHAN-SA-23)
development of self-powered, for in-core neutron measurements, 25:34877
development of simple electrostatic, for monitoring gamma dose around home fallout shelters, 25:42506(R) (ORNL-4566(Pt.1))
development of solid Compton recoil electron, based on charge generation from electron scattering in dielectric-electrode matrix, 23:21934 (AD-675501)
development of solid particle-track, review of, 23:2628
development of superconducting thin-film, 21:1560 (AD-634684)
development of superconducting-film, for alpha particles, 21:1557(R) (AD-629059)
development of supercooled-liquid track detector, 25:35015
development of three-element Compton ratio, for calibration of high-intensity flash x-ray machines, 24:46468 (EGG-1183-2230)
development of time-of-flight, for charged particles, 22:9855(R) (ORO-2843-12)
development of transition, using nonmetallic foils, 22:32039(R) (COO-1195-124)
development of, 1918-1968, 22:28101
development of, for cosmic EAS, 21:17833
development of, new concepts in, 25:42053 (JINR-P13-5782)
development of, program for, 22:28103
development of, review of, 23:24420 (CEA-CONF-1232)
development of, review of, 24:33892
development of, review on, 25:42101
development possibilities for super-high-energy particles based on transition radiation, 24:39363
development possibilities of thermal neutron, based on acoustic cavitation in methanol from boron-10 (n,α) reactions, 24:33891
development, calibration, and inventory of ORNL, 21:45371 (ORNL-4146, pp 78-83)
development, review, 22:4309 (TID-24102)
discriminators for distinguishing neutrons from gamma rays in, tunnel diode pulse shape, 21:17938
economic aspects of, industrial, 22:23275
efficiencies of flash-tube, for determining charged-particle trajectories, 25:48996
efficiency and reaction rate of, 23:14017
efficiency distribution of neon flash-tube, 25:48919
efficiency for measurement of differential cross sections, effects of aperture size on, 22:45297
efficiency for neutrons, spectra for calibrating, 22:18123(R) (RLO-1925-11)
efficiency for particle detection from parallel-disk source, geometrical, 21:28241
efficiency for single and coincidence counting, derivation of equations for, 23:49582 (ANL-7410, pp 339-86)
efficiency in complex radiation fields, 22:36040
efficiency in measuring activity of radioisotopes, 21:41217
efficiency of adjoint-weighted, in reactor—detector system for neutron noise measurements, 22:30833
efficiency of alpha, calculated and experimental, 22:23274
efficiency of Channeltron electron multiplier for electrons and protons, 23:9704
efficiency of circular, in viewing circular radiators, (T), 21:39174 (AE-292)
efficiency of neutron, method for calculating, 22:28102
efficiency of neutron, theoretical, 22:10537 (AAEC/TM-403)
efficiency of NM-64, for precision measurements of neutron scattering, 22:45295
efficiency of photographic film, state of the art and methods for improving, 24:14272
efficiency of position-sensitive, for carbon-12 + carbon-12 scattering studies, 24:48284
efficiency of telescopes of, for charged-particle detection, algorithm for estimating cross sections for, 23:33395
efficiency of, computation of solid angles subtended by plane polygon and circular disc for determining, 21:26142 (AERE-R-5419)
efficiency of, effects of instrumental errors on, 22:14784
efficiency of, multistage self-improving Monte Carlo method for calculating, 23:38283
efficiency of, nomograms for determining, 23:13991(T) (TT-67-51409/4, pp 77-80)
electric connectors and cables for, list of standard, 24:22983 (CEA-N-1281)
electronic equipment for, used in neutron flux monitoring in reactors, design of digital, 23:50118 (NYO-3738-15)
encoder for satellite, design of integrated-circuit, 21:11502
energy integration program for, use in nuclear explosion flux mapping, 22:40280 (AD-667933)
energy response of beta—gamma survey, tables of, 25:57781
energy response of neutron survey, tables of, 25:57781
equipment for, design of tube mounting assembly, 22:10571(P)
error statistics for, calculation of, 22:47357
error statistics in nuclear radiation measurement techniques, 21:8591
errors due to Coulomb scattering, calculation of, 24:11767 (JINR-P1-4815)
errors in neutron-sensitive, correction for burnup, 24:25291
errors in pulsed radiation fields, calculation of, 23:50141
errors in x- and gamma-ray cosmic background spectra due to, (T), 24:35230
errors in, counting-loss correction formula for, 23:43544
errors in, empirical determination of variance for, 23:26551
errors in, theory of coincidence, 25:21386 (DSL-TN-133)
errors of in-pile neutron, effects on reactor control, 21:31980
errors of, effects of neutron harmonics on, (T), 21:23737
evaluation for determination of internal contamination in man, 22:31058 (BNWL-SA-1511)
evaluation for direct measurement of plutonium-239 in biological systems, 22:49343
evaluation for radiation monitoring near CERN 28-GeV- and 600-MeV synchrocyclotrons, 22:22534
evaluation for use in radioisotope scanning, use of mathematical models for, 23:8020 (UCLA-10-P-14-X-39)
evaluation of reactor coolant, parameter study for, 22:25126 (CEA-R-3342)
fabrication and testing of cosmic neutron intensity monitor, 21:1577
fabrication of vacuum evaporated silver bromide film, 23:41022
fatigue of Channeltron electron multiplier, for electrons and protons, 23:9704
feasibility of gamma—electric cell, for high γ flux, (T), 22:47863
fluctuations of, use in measuring reactivity of subcritical cores, (E), 21:8086
frequency response of neutron, 23:9700 (RCN-98, pp 161-80)
gamma backscattering by, equation for calculating, 23:19940
gamma radiation counting in, probability of, (T), 22:5471

geometric arrangement for elimination of correlation effects in gamma detection, 25:18669
geometrical factor of cylindrical, determination of, 24:11821
geometrical factors for, Monte Carlo method for determination of, 25:37599
geometrical factors of single and multi-element telescopes of, 25:48932
geometries of, for measurements of fallout field in military operations, 21:383 (AD-640888)
geometry calculations for disk source solid angle subtended by non-parallel disk, 25:37600
geometry calculations for target—, computer program for solid angle and angular acceptance, 25:9910 (LUSY-7007)
geometry corrections for determination of radioisotope decay rates, solid-angle, 22:14780
geometry corrections for radiation source and, Monte Carlo calculation of, 23:26542
geometry effects on accuracy in x and γ radiometric gages, 25:34904
geometry efficiency of parallel-disk system of source and, integral method for determining, 22:10563
geometry factor calculations for point sources, 23:43616
geometry factor for finite size radiation source, angular distribution attenuation coefficients in, 24:29501
geometry factor for large plain radiation sources, 21:41231
geometry factor for, approximation of solid angle subtended by circular disk for calculating, 25:32250
geometry factors for calibrating, tables of, (T), 21:17853
geometry of radiation source—, Monte Carlo calculation of, 22:14787
geometry of telescopic, aperture function for target source, 23:11787
geometry of, Monte Carlo program for calculating solid angle subtended with respect to radiation sources, 21:19901 (ORNL-4099)
geometry with respect to radiation sources, Monte Carlo calculation of solid angle of, 21:43266
geometry with respect to source, system for exactly orienting, 22:28115
holder with violation indicator for personnel, design of lockable, 24:14268(P)
imaging properties of gamma, characterization of geometric, 21:19949
instrumentation associated with reactor neutron, book on, 22:30273
lectures on, 25:34863 (HMI-B-108)
live-timer automatic count corrections for, circuits for, 23:49582 (ANL-7410, pp 339-86)
location and use in measuring neutron cross-spectral-density in bare cube reactors, 21:30122 (CONF-660206, pp 623-48)
location for power reactor environment, analysis of optimum, 23:49538
logic system for, development of high-speed, 21:33599 (RHEL/R-144, pp 15-40)
maintenance at JAERI, 23:17748 (JAERI-5017, pp 77-82)
maintenance at NRTS, 1969, 25:368 (IDO-12073, pp 25-7)
material for, preparation of thermoplastic, 22:6354(P)
materials evaluation for, 25:59147
materials for, gas chromatographic purification of, 23:47595
monthly progress report on, Pacific Northwest Laboratory June 1967, 23:23856(R) (BNWL-499)
monthly progress report on, Pacific Northwest Laboratory November 1966, 23:23849(R) (BNWL-359)
monthly progress report on, Pacific Northwest Laboratory March 1967, 23:23853(R) (BNWL-425)
monthly progress report on, Pacific Northwest Laboratory January 1967, 23:23851(R) (BNWL-375)
monthly progress report on, Pacific Northwest Laboratory December 1966, 23:23850(R) (BNWL-369)
monthly progress report on, Pacific Northwest Laboratory May 1967, 23:23855(R) (BNWL-468)
monthly progress report on, Pacific Northwest Laboratory February 1967, 23:23852(R) (BNWL-404)
monthly progress report on, Pacific Northwest Laboratory April 1967, 23:23854(R) (BNWL-444)
mounting in glovebox for, design of hermetic, 23:7676(P)
multiplex systems of, properties of pseudo-noise sequences used in, 25:34866 (JINR-P13-5722)
neutron counting statistics of, short time interval, 22:19121
neutron fluence measurement using, containing scintillators, semiconductors, and nuclear track emulsions, 21:3411
neutron flux at surface of large, computer program for calculating, 24:50562
neutron flux density in reactor—detector systems, role of adjoint in fluctuation analysis of, 23:46899
neutron flux depression in and around, 21:28197 (BLG-405)
neutron flux, calculation of optimum efficiency for reactor core multiple, (T), 22:35677
neutron in-core monitor, development for boiling power reactor control system, 23:15580
neutron in-core monitor, development for reactor control system of, 23:15750
neutron monitors, barometric coefficients of multiplicities in, (T), 23:5260
noise in, rejection of spurious counts arising from electrical, 22:43054
operation and performance for detection near multi-GeV storage ring, 24:16882 (CONF-690330-, pp 61-71)
operation and performance for high-energy physics experiments, 22:44297(R) (UCLA-34-P-106-27)
operation and properties of, 24:33870 (TUBIK-20)
operation and sensitivity of survey, irradiation device for remotely checking, 25:23784(P)
operation and use in health physics, statistical analysis of, 22:21317 (SC-TM-67-3036)
operation and use in space flight studies, 25:15896
operation and uses of self-powered, 25:57777
operation for gravitational radiation detection, (T), 25:47966 (CONF-700411-, pp 118-30)
operation in medical schools, regulations for, 22:499
operation of cosmic neutron monitors, (E), 23:1224 (AD-671553)
operation of gravitational, for detection of high-frequency gravitational waves, 25:46632
operation of shower, for energy measurement of high-energy electrons and photons, 25:13300
operation of, for high-energy astrophysics, (E), 25:22214 (N-71-11415)
operation of, lectures on, 23:24431 (TUBIK-9)
operation time of neutron, effects on bias in reactor noise analysis (Feynman), 21:21645 (RCN-64)
outputs of two photo-, quantum theory of intensity correlations of, (T), 22:5641
parameters for charged-particle identification using counter telescopes, methods for determining, 25:48990
particle detection by, quantum field theory for localizability properties of, 22:35096
particle detection by, resolution effects on arrival time measurement in quantum mechanics for, 23:39638
particle detection by, time of arrival in quantum mechanics for, (T), 23:39640
particle detection by, uncertainties in statistical theory for arrival time in quantum mechanics for, (T), 23:39639
particle discrimination by coincidence below 10 MeV, use of nonlinear amplifiers for generating functions for, 21:45408
particle identification with E-ΔE system of, use of on-line computer for, 23:21962
particle pair and resonance detection by, interference phenomena in decaying, 23:38319
particle track formation in plastic, chemical processes involved in latent, 23:9939 (ORNL-4316, pp 231-69)
particle track overlapping in solid-state, probability of, 23:9939 (ORNL-4316, pp 231-69)
performance analysis of recoil-proton, for neutron spectra measurements, Monte Carlo program for, 23:26512 (KFK-860)
performance comparison of, for neutron monitoring, 23:24446
performance for activity measurements in kidneys following injection of iodine-131, effects of positioning on, 25:11167
performance for automatic determination of tritium in urine, 24:11770
performance for detecting pairs of unstable particles, interference effects on, 23:7736 (JINR-P2-4145)
performance for detection of neutrons at 25 keV, review on, 24:9658
performance for determining maximum permissible levels of surface contamination, 22:23548
performance for determining short-lived radioisotopes, lower limit of, 21:282
performance for dose field determination, effects of size on, 24:23205
performance for dose measurements, effects of distance from radiation source on, 24:36758
performance for measurement of mutagenic doses of radiation, 21:45636
performance for measurement of plutonium-239 content of human lungs, proposed modifications for, 23:24636
performance for monitoring cosmic neutrons, 21:31278
performance for neutron dose equivalent rate measurements near reactors, 22:14746 (AERE-M-1848)
performance for pulsed radiation and particles, information theory for, 22:21324
performance for radiation and contamination monitoring in Juelich hot cells, 24:31654
performance for radiation monitoring near high-energy proton accelerators, evaluation of, 22:21322
performance for study of coherent interactions, 25:46636
performance in determining γ radiation from rocks, 22:2213
performance in fast neutron fields, 21:28585(R) (BNWL-247)
performance in groundwater tracing, 21:36140
performance in U. K. of high temperature, for gas cooled and liquid sodium cooled power reactors, 25:39258 (IAEA-119, 4p.)
performance in U. K. power reactors, 25:39260 (IAEA-119, 5p.)
performance of cadmium sulfide resistance, for recording of Moessbauer spectra, 23:29158
performance of CEM 4028 electron multiplier, 24:25280
performance of class-1 and -2 gravitational wave detectors, 25:14547
performance of collimated, for determining radioisotope distribution in human organs and tissues, 24:41751
performance of cosmic-neutron monitor, neutron lifetime in, 21:3286
performance of counter-ratio, for detecting high-energy neutron thresholds, 21:26169
performance of dE/dx, for particle identification, 24:11810
performance of dorsal and ventral, during xenon-133 respirometry, 25:13520
performance of electroscope, for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance of far-infrared, using Josephson effect, 23:38376
performance of fission product monitoring, for high temperature gas cooled reactor cooling system, 25:25998
performance of Geiger-Mueller and scintillation, for monitoring air, 22:51567(R) (IN-1205)
performance of hand and foot monitor, for detecting radioactive contamination on skin, 22:36277
performance of HANDS system, for detecting fallout at high altitudes, 25:41933 (AD-719620)
performance of in-core self-powered fast neutron flux monitors, 24:46021
performance of in-core vacuum chamber, for neutron and gamma flux measurements, 23:24447
performance of Lingen Power Reactor neutron flux probes, 23:19453
performance of mobile, for xenon-133 radiospirometry, 25:13514
performance of multi-, for neutron dose equivalent rate measurements, error evaluation in determining, 24:500
performance of multiple dual channel, for simultaneous hemodynamic function studies using radioisotope scanning, 24:41729
performance of negative electron affinity secondary emitters for high-energy particle identification, 24:7648 (BNL-14183)
performance of NM-64 neutron supermonitor, effects of dead time instability on, 21:45407
performance of parallel-channel electron multiplier tube using silicon resistance strips, 23:45520
performance of photographic emulsion as three-dimensional medium, 24:14273
performance of pulse-type, for x-ray spectroscopy, comparison of, 23:41033 (CEA-R-3805)
performance of self-powered, for neutron flux measurements in reactors, 25:51160 (JAERI-13612)
performance of silicon, for thermal neutron flux measurements by Hall effect readout, 24:46489
performance of SNEAK reactivity meter, description of, 23:4305(T) (EURFNR-519)
performance of super neutron monitor in recording multiplicity variations, 22:41395
performance of superfluid relativity gyroscope, for test of Einstein general relativity theory, 25:5422
performance of superhigh-energy resonance-radiation, 25:18781
performance of surface ionization, for fast potassium atom detection, 25:32232
performance of transition, for ultrahigh-energy particle detection, 24:48321
performance of various, for monitoring outside reactor shielding, 25:57779
performance of wide range linear channel neutron flux, 25:6207
performance of, counting times in, 23:9707
performance of, for determination of activity in biological and environmental samples, 21:30351 (NYO-4700(2nd Ed.))
performance of, lectures on, 22:13689
performance of, on Kosmos 137 satellite for measuring trapped particles, 24:6450
performance of, over-all correction factor for, 22:43039
performance of, signal-to-background criterion of, 22:49077
performance of, statistical limits of reliability in, 24:51776
performance of, test procedures for evaluation of, 25:51849 (AD-871790)
performance of, with extended dead time, for detection and measurement of pulsed radiation, 23:31534
performance specifications and operation techniques of, handbook for, 21:4692 (UCRL-3307(Rev.3))
positioning device for dose distribution measurements in liquid phantoms, 25:35059
power supplies for, design of transistorized, 23:16129(P)
power supplies for, monitoring system for high-voltage, 23:38244 (EGG-1183-1408)
power supply for, design of high-voltage, 21:45427(P)
preamplifier for large Coulomb output, design of low gain charge-sensitive, 23:38274
preamplifier for, design of wide-band low-noise charge sensitive, 22:30919
preamplifiers for, design and construction of low noise charge-sensitive, 21:6331 (IA-1082, pp 295-309)
properties of ferroelectrics for, 24:29536
pulse amplitude distributions from, computer simulation of transformed Poisson process for, 24:20979 (BNL-14487)
pulse amplitude distributions from, transformation of Poisson process for analysis of, 24:39311
pulse analysis for sorting radioactive samples, sequential statistical, 22:45286
pulse analyzer for various, description of universal, 24:27334 (CONF-690540-, pp 168-73)
pulse analyzers for, timing adjustment of, 24:25279
pulse counting systems for, problems connected with high rates in, 21:20004
pulse divider circuit for position-sensitive, 23:43547
pulse division circuit for position-sensitive, description of, 21:39176 (BMwF-FBK-67-61)
pulse pile up rejection by comparison of shaped pulse with its second derivative, 25:48929
pulse pile-up discrimination circuitry for, 25:18840(P)
pulse pile-up in, errors from, 24:21000 (JINR-P13-4899)
pulse shapes from short-circuit, 24:20991
pulse shaping for high resolution nuclear spectroscopy, 22:28147
pulse shaping in, 23:38252
pulse signal-to-noise ratio of, least-square-error measurement of optimum, 21:26185
pulse-height distribution data from, computer program for analysis of instrument resolution distorted, 21:39235
pulses from beta, gamma, and neutron, design of transistorized six-channel monitoring device for, 21:17925
pulses from, coincidence losses in crossover-timing circuits from pile-up of, 21:17846
pulses from, design of precision pulse generator for simulation of, 23:21957
pulses from, optimum count-rate estimate for Poisson distribution of, 23:29150 (RISO-M-867)
pulses from, processing at very high counting rates for precision pulse-height analysis, 21:32503

pulses from, reduction of binary digits required for transmitting random count-rate information from, 23:40995 (EUR-4289, pp 333-8)
pulses from, statistical analysis of, 23:6292
pulses from, statistical errors in analog and digital methods for direct rate ratio measurements of, 23:41043 (EUR-4289, pp 349-53)
radiation dose at various distances from surface of cylinder, computer program for calculation of, 23:35465 (ORNL-TM-2592)
radiation effects on coincidence, electron, 21:14519 (N-66-39985)
radiation effects on SNAP-27, from fuel and radioisotope thermoelectric generator, 24:536(R) (N-69-34718)
radiation effects on spacecraft-borne, radioisotope thermoelectric generator, 25:4409
radiation source geometry for, equations for, 21:17854
random processes in, with dead time, statistical description of, 22:33651
reactor power profiles from neutron, optimal estimation technique for determination of, 22:32880
reactor safety transient systems of, efficiency of, 22:32961 (ANL-7310, pp 377-430)
readout electronics for $\pi + e$ interaction measurements, 25:55044 (JINR-E1-5818)
readout to digital printer, commutator switch for automatic, 25:29345
recording system for neutron, 22:23300
recording systems for, used in measuring neutron flux distributions in exponential piles and reactors, 22:43025 (EUR-3943)
reliability of nuclear, application of theory of, 23:21969
reliability of, prediction and optimization of, 23:47779
research and development at BNL, July 1968 to June 1969, 24:18056(R) (BNL-50169)
research at UCLRL, Sept.-Dec. 1970, 25:34873(R) (UCRL-50007-70-3)
research on high-energy particle, Congressional hearings on, 22:11607
research on, NRTS 1968, 23:41314(R) (IDO-12071)
research progress on, 22:47077(R) (NYO-844-75)
resolution function of, Breit—Wigner signals as seen by Gaussian, (T), 25:48962
resolution functions in cylindrical geometry for measuring two-photon positron annihilation, 23:7748
resolution of position-sensitive, geometric, 24:4435
resolution of, effects of signal-to-noise ratio on, 21:45356 (LYCEN-6738, pp 80-92)
resolution of, statistical factors affecting, 22:36027 (CONF-680303-, pp 1-11)
resolution-function of, Breit—Wigner signals as seen by Gaussian, (T), 25:29355 (RLO-1388-135)
response function and convolution integral for, determination of, 22:19099 (UCID-4675)
response graphs of charged-particle, on Explorer-14, 21:22129 (N-67-15251)
response in exponential piles of neutron, diffusion theory calculations for, 25:6118
response of all-solid self-powered neutron flux, correlation of reactor power density profiles to, (E), 25:57017(R) (BAW-3647-22)
response of aluminum and gold foil secondary emission, for electrons at 1.5 to 18 GeV and for protons at 6 and 11 GeV, 23:7730 (CEAL-1045)
response of cobalt self-powered, for in-core neutron detection, 25:2467
response of collimated, to point, line, and plane sources, 23:43549
response of delayed neutron, two stage Monte Carlo calculations for, (T), 25:6151
response of Haverah Park array to extensive air showers, (E), 22:9119
response of out-of-core, for measuring power distribution in reactors, 22:30839
response of photodiode, for nuclear weapons testing, 23:35455 (AD-684029)
response of selected neutron monitoring, 21:26191
response of self-powered cobalt, for in-core neutron flux monitoring, 23:40980 (AECL-3368)
response of self-powered, for in-core gamma detection, 25:34891
response of single and multi-element telescopes of, directional, 25:48932
response of system of, to extensive air showers, statistical analysis of, 22:23298
response of, utilizing RC integrating circuits, 23:29202
response to material changes in subcritical reactors, use of few-group diffusion theory for prediction of, (E/T), 25:10322
response to reactivity changes in subcritical reactors, model for interpretation of, 21:25725
review on, for measuring accelerator radiations, 24:45644 (CONF-691101-, pp 625-47)
sample changer for, 23:47884
sample changer for activity measurements with, use of slide projector as inexpensive automatic, 23:17763
sample rotation system for activity measurements, 24:14276(P)
sensitivity for gravitational radiation detection, (T), 25:47966 (CONF-700411-, pp 118-30)
sensitivity for measuring electron currents in betatron, 25:12321
sensitivity for water monitoring at Kyoto Univ. reactor, 23:2557 (KURRI-TR-23)
sensitivity of 4π coincidence, corrections as function of gamma discrimination level measured for cobalt-60 and manganese-54, 23:17765
sensitivity of all-solid in-core, for neutron flux measurements, (E), 25:8134(R) (BAW-3647-18)
sensitivity of gravitational, to cosmic rays, 24:25301
sensitivity of gravitational, to high-frequency gravitational waves, 25:46632
sensitivity of gravitational-wave detector with superconducting resonance element, calculation of, 25:425
sensitivity of moderated cylindrical neutron, computer program for calculating, 22:47319 (JAERI-1163)
sensitivity of organic solid-state track, effects of oxygen and humidity on, 23:9939 (ORNL-4316, pp 231-69)
sensitivity of photoelectric diode, for soft fluorescent x rays, 22:8341 (UCID-15248)
sensitivity of photon, use of radioisotopes for measurement of, 24:29454
sensitivity of secondary-emission, for monitoring position of electron beams, 25:20173
sensitivity of self-powered gamma, Monte Carlo calculations for, 25:50573
sensitivity of self-powered rhodium, for in-core thermal neutron flux measurements, differential, 24:11804
sensitivity of Weber antenna, for short pulses of gravitational radiation, 25:44687
sensitivity of, for measuring low activity of radioisotopes, 22:2387
sensitivity of, use of scanners for improving, 21:6564
sensitivity threshold for low-level counting, optimization of, 25:42102
shielding design for measuring total neutron cross sections at backward angles, 25:6551
shielding for survey-type, use of silver-metalized nylon mesh as rf, 24:46495
shielding for, design of lead-filled steel, 23:11708
signal squared-to-background criterion for, analysis of, 23:16095
signal-to-noise ratio in, improvement of, 21:6219
signal-to-noise ratio in, improvement of, 22:36028 (CONF-680303-, pp 169-88)
signals from, discriminator-bias circuits for automatic operation as energy absorption—dose conversion operators for analysis of, 21:45376
signals from, instruments for amplification and formation of, 22:2390 (CEA-R-3252)
signals from, processing of high-rate, 23:31538 (BNL-13683)
specific yield functions for IGY neutron, 22:51218(R) (AD-672313)
specifications for use in γ and x radiography, 25:46624
spectral analysis of gamma-contaminated signals from, comparison of auto- and co-, 21:34523 (ORNL-4091, pp 136-82)
splash protection for water-surface monitor, protective film and heater assembly for, 22:47348
stability of, statistical method of data analysis for determining, 23:617
standardization for gamma irradiation facility, 24:4426
standardization for measurement of cobalt-60 and radium-226 γ rays, 24:712
standardization of beta, for radiochemical analysis of air filter samples, 21:30482 (NRL-Memo-1764)
standardization of specifications for survey, 25:39713
standardization of, methods of, 22:43063
statistics associated with nuclear, dead-time corrections for negative binomial and Poisson, 23:11776
statistics of system of, for discriminating particles by primary ionizing power, 24:498(T) (CERN-Trans-69-17)
statistics of, with constant dead time, 24:23005
testing for neutron spectral index measurement of k/sub infinity/ in RB-1 reactor, 22:20911 (RT/FI-(67)30)
testing high-temperature neutron, 22:43629(R) (LA-3933)
testing of high temperature neutron, 21:22128 (LA-DC-8634)
theory and use of ferroelectric, 24:36577
theory of negative electron affinity secondary emission, for relativistic particles, 24:39364
theory of parallel-plate and spherical vacuum-chamber-type, for attenuated radiation fields, Greening's, 22:43061
theory of superconducting-weak-link, 25:2444
theory of supercooled liquid, based on crystallization along particle track, 25:18709
time correlator for fast reactor prompt neutrons, design parameters of Rossi—α, 24:16325
time resolution of, paired sources method for determining, 25:34890
timing circuits for, correction of errors in pulse, 24:36567
timing circuits for, operation of pulse triggering, 24:4437
timing circuits for, with automatic setting of time interval, 22:47353(P)
types of, used in dosimetric equipment, 21:3412
use for absolute calibration of beta-gamma sources, method for, 24:2462
use for animal research, training programs on, 21:12750 (STI/DOC-10/60)
use for detection of characteristic x rays of materials excited by alpha particles for elemental analysis, 23:7885(P)
use for determining erosion in exhaust stacks, 22:10621(P)
use for dosimetry, energy absorption spectrum—radiation dose conversion operator for, 22:12658
use for fast neutron radiography, 22:51222 (TID-24730)
use for measurements of paper radiochromatograms, avoidance of electrostatic charges in, 23:6290
use for measuring angular correlation of atomic cascade photons, calculation of signal-to-noise ratio for, 22:19102
use for monitoring at accelerators, tabular summary of, 24:46516 (DESY-70/27)
use for radioassay of effluent of gas chromatography column, methods for, 22:36049
use in gamma polariscopes for measuring linear and circular polarization, 22:8356
use in health physics, review of, 22:10778
use in high-energy pulsed radiation fields, 22:4444
use in low- to ultrahigh-frequency electromagnetic fields, problems in, 24:27590
use in measurement applications in engineering, 21:28176
use in nuclear densimeters for soils, (T), 21:34332
use in nuclear physics research, review of, 22:8376
use in prospecting for thorium and uranium minerals, 23:13888
use in radiometric hygrometer, 21:10688
use in research reactors, 22:12108
use in security system to detect presence of unauthorized personnel, 24:27299(P)
use in simultaneous bilamino and isosensitive scanning, method for, 21:10973
use in well logging for petroleum exploration, 22:2375
use of elongated, in radiometric measuring balance for weighing solids on conveyers, 21:41165(P)
use of filter-tape, for measurement of natural aerosol activity, 21:4699
use of gamma, for locating defects in building materials, 21:41222
use of infrared, for determining nucleate boiling in reactors, 21:25750(P)
use of Lawson type, for dating minerals and measuring uranium concentrations, 21:8430 (JINR-P3-2961)
use of organic polymer solid-state track, for fast neutron dosimetry, 23:9939 (ORNL-4316, pp 231-69)
use of Penning discharge tube for detecting charged particles and gamma rays, 22:38048
use of portable, rules for, 25:42073
use of whole-body, in medicine, conference on, 21:12892 (STI/PUB-122)
use of x-ray film, for determining ground water filtration direction in drill holes, 22:43135
use of, review of basic biological concepts in, 21:12831 (CMN-Pub-2/65)
use to measure depth of well casing top plugs, 23:19891(P)
use with neutron sources for determining moisture content in substances, 21:30735(P)
use with pulse integrator for measuring reactor period, 22:7934(P)
use with pulse integrator for monitoring reactor period, 22:10091(P)
use with radiation sources for direction finding, 22:10619(P)
use with radiometric techniques for aerodynamic testing, 22:38126
uses for high-energy particle detection, conference on developments on methods for, 24:15451(T) (AEC-tr-6882/2)
uses in association with medical applications of radioisotopes, 22:19216
uses in biology and medicine, review of, 23:24452
uses in industry, reactor control, physics, and medicine, conference on, 23:22033
uses in medicine, review of, 22:12879
uses in nuclear meters for soils investigations, 23:2681
uses in nuclear physics, review of, 23:43562
uses of position-sensitive, for simultaneous determination of several parameters of particles, 25:8475 (JUL-CONF-4, pp 59-70)
window attachment to curved surface of, method for vacuum-tight, 25:18712
windows for alpha on-line monitoring, use of polyvinyl fluoride film as contamination-resistant, 24:2472
windows for, for spectroscopy, 25:8534(P)
x radiation focusing on small, telescope using asymmetric Bragg crystal-plane diffraction for, 22:36029 (D-1-82-0720)

RADIATION DETECTORS, ACTIVATION
see also Radiation Detectors, Fission Foil
accuracy for neutron fluence measurements, intercalibration of counting laboratories for determining, 23:47731 (BNWL-1096)
accuracy of foils for neutron flux and spectra measurements in reactors, 24:11334
accuracy of thermal neutron spectrum measurements of, analysis of, 22:25141
activation of, neutron fluxes required for, 21:30091(R) (ANL-7210)
activity counting system for neutron flux measurements, design of, 22:4453(P)
activity evaluating device for in-pile, 25:18719(P)
activity measurements of gold, beta—gamma coincidence scintillation detector system for, 25:37607
activity measurements on, automatic system for, 21:42642
analysis of, covered with lithium-containing films for oxygen by triton activation methods, 21:12330
burnup correction factor of cobalt-59 and cobalt-60, calculation of, 22:43030 (UJV-2034)
calculation of neutron flux spectra from multiple foil, iterative computer program for, 24:16830 (AD-821617)
calculation of neutron flux spectra from multiple foil, iterative computer program for, 24:16828 (AD-820556)
calculation of neutron flux spectra from, variational method for, 24:16858
calculation of neutron flux spectra from, variational method for, 24:16859
calculation of neutron flux spectra from, variational method for, 25:15887 (TID-25651)
calculation of radioactivity of wire, for thermal neutron flux measurements, 25:18707
calculations for fast neutron spectra measurements, 25:57775
calculations for fast neutron spectroscopy, 25:46629 (JUL-726-RX)
calculations for indium sandwich foil, for neutron flux measurements, 24:50550 (NP-18440)
calculations for neutron flux determinations, computer program for, 24:9636 (GEMP-729)
calibration and development for reactor neutron spectra, (E), 21:14080 (KFK-474)
calibration factors for metal foil neutron, inter-, 21:12653
calibration for fast neutrons, 22:21321(T) (ORNL-tr-1843)
calibration in polyethylene spheres for intermediate neutron spectroscopy, 25:4364
calibration of aluminum—dysprosium wire, description of, 22:32740(R) (BAW-3647-7)

calibration of boron-covered polyethylene-moderated multisphere indium, for neutron spectroscopy, 25:32260
calibration of foil-type, interlaboratory program for, 24:14866(R) (BNWL-658)
calibration of foils for in-core neutron flux measurements, system for, 24:20990(P)
calibration of gold foil, description of standard thermal neutron flux using americium—beryllium sources for, 23:45503 (BARC-388)
calibration of lutetium indicators for activation measurements of thermal neutron temperature, 22:35208
calibration of metal foil type, interlaboratory data on, 23:32040(R) (BNWL-678)
calibration of silver foil, for measuring neutron flux, 22:47349
calibration of silver, for use with plasma focus experiment, 25:56214 (LGI-70/17/E)
calibration procedure for beta counting of uranium-aluminum fission rate, 23:24426 (IN-1218, pp 181-316)
capsules for copper and titanium, fabrication of gadolinium, 21:19899 (NP-16604)
corrections for cadmium-shielded indium, for epithermal neutron detection, 22:33652
counting of large sets of, evaluation of neutron flux distribution in reactors by automatic, 21:19966
counting system for design of automatic, 21:45345(R) (IDO-17234)
data analysis for determining fast neutron spectra, use of approximate quadrature formulas for, 22:38025
data analysis for fast neutron spectroscopy, mathematical method for, 24:14298
data analysis for fast neutron, extension of polynomial method for, 22:2368
data analysis for neutron spectra, 21:19958
data analysis for neutron spectra measurements at HENRE accelerator, 24:44292 (CONF-691101-, pp 566-85)
data analysis for neutron spectroscopy, computer method for, 25:2439
data analysis for neutron spectroscopy, computer program for, 22:21338 (SC-RR-67-746)
data analysis from automatic foil counter, computer program for, 21:28194 (AERE-R-5315)
data analysis from, theory and application of generalized spectral unfolding program for, 24:39319 (SC-RR-70-251)
data analysis method for determining neutron flux spectra, 24:39207 (IN-1317, pp 233-381)
data analysis of manganese bath, for measuring neutron source strength, 24:33880
data from in-pile, computer program for processing, 25:18641 (IN-1446)
data from manganese bath-type, description of on-line computer for handling, 22:32961 (ANL-7310, pp 377-430)
data from, computer program for determining fast neutron spectra from, 22:30834
data from, used in neutron dosimetry following nuclear accident, spectral model for analysis of, 23:47844 (K-1763)
data processing for neutron, computer program for gamma spectra, 24:27387 (RCN-116)
data processing for titanium-46, for fast neutron flux monitoring, 25:363 (AAEC/TM-550)
data processing methods for fast neutron spectra measurements, performance of, 25:42100
data processing of multiple, polynomial approximation of fast neutron spectrum in, 25:2442
data unfolding for, computer program for neutron spectra, 25:57725 (KFKI-71-22)
data unfolding method for multiple foil, iterative, 24:31718
data unfolding methods for neutron spectra measurements in fast reactors, comparison of, 25:13226
description for fast- and thermal-neutron detection, 25:23799
description for personnel dosimetry, 24:36626 (STI/DOC-10/109)
description for thermal neutron detection, 25:57729(P)
description of film badge of tin and cadmium, for intermediate neutrons, 25:39767
description of liquid argon, for analyzing chlorine-40 isomer, 22:16882
description of magnesium acetate, for neutron dosimetry at 14.7 MeV, 24:23028
description of plural foil, for epithermal neutron spectrum measurements, 23:2570
description of reactor in-core continuous primary emission neutron, 23:24036
design, 23:2563(P)
design and operation of multifilter rhodium foil—thermoluminescent detector system for personnel neutron dosimetry, 24:4495 (BNWL-1159, pp 35-49)
design and performance of boron-11 beta current, for in-core thermal neutron flux measurements, 21:28202 (BNWL-395)
design and performance of carbon and silver, for measuring bremsstrahlung distribution from electron-bombarded targets, 25:34908
design and performance of electron current, for measuring high neutron flux from reactor cores, 23:41016
design and performance of in-pile neutron, 25:23829
design and performance of miniature primary emission neutron, for spatial distribution measurements in reactors, 21:19969
design and performance of moderator-enclosed tantalum, for fast neutron detection, 21:30702 (UCRL-17051)
design and performance of multiple, for accident dosimetry of neutrons, 25:57857
design and performance of silver and vanadium, for in-core thermal neutron flux measurements, 23:17745 (CEA-R-3697)
design and performance of tetrachloroethylene, for measuring solar neutrinos by (τ,e^-) reactions, 23:9693 (BNL-12981)
design and performance of thin wire, for thermal neutron flux distribution measurements, 24:2442 (CISE-R-96)
design and performance of vanadium beta emission, for neutron flux monitoring in reactors, 23:38240 (AE-359)
design based on electron current measurement from beta decay, for neutron detection, 23:644(P)
design based on measurement of current of conversion electrons from gadolinium target, for measuring thermal neutron flux, 23:641
design for criticality personnel dosimetry, 24:11847 (RFP-1369)
design for detection of thermal neutrons, 22:33643(P)
design for fast and intermediate neutrons using resonance capture, 25:39720(P)
design for neutron flux measurements in reactor core, 21:36393
design for neutron flux measurements in reactors based on electron current measurements from beta decay, 23:649(P)
design for thermal neutrons, (E), 23:32889
design of coaxial, for neutron monitoring inside reactors, 22:10572(P)
design of fast neutron manganese bath-type, 22:32961 (ANL-7310, pp 377-430)
design of multifoil, for personnel neutron dosimetry after criticality accidents, 23:2662 (DP-1006(Rev.1))
design of neutron, using boron-10- or lithium-6-doped nickel oxide sensing elements, 21:14470(P)
design of rhodium wire, description of, 22:32740(R) (BAW-3647-7)
design of rhodium-wire in-core neutron, use of currents from β decay for, 23:4299 (BAW-3647-9)
design of vanadium bath, for fast neutron detection, 24:47891 (ANL-7610, pp 369-464)
design parameters of aeroball system for γ and neutron monitoring, 24:43605 (HPR-120)
design parameters of in-core, for fast breeder reactors, 25:6044
development and testing for monitoring fast reactor core fluxes, 22:13035 (BNWL-473, pp 11.1-7)
development and use for neutron dosimetry, 23:29232 (THAI.-AEC-23)
development and use for reactor neutron fluence measurements, handbook on, 24:36560 (STI/DOC-10/107)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development for Apollo spaceflight, 25:37306(R) (BNWL-1183-8)
development for carbide fuel burnup determination, 24:39598(R) (AI-AEC-12948)
development for fast neutron spectroscopy using lithium-drifted germanium detectors for gamma spectral analysis, 23:38299 (UCRL-18514)
development for fast neutrons, using manganese bath and vanadium bath techniques, 23:5792
development for in-core fast neutron detection, using beryllium-9 in carrier gas, 25:4355
development for liquid metal cooled fast breeder reactor power and breeding distributions, 25:60050
development for measuring neutron energy spectra in reactors, 22:8363(P)
development for neutron dosimetry, 25:49021(R) (UCRL-50007-71-1)
development for neutron spectroscopy at 14 MeV, 24:31733
development for neutron spectroscopy below 14 MeV, 24:31732
development for neutrons, based on the lithium-6 (n,α)t and oxygen-16 (t,n) fluorine-18 reaction sequence, (E), 22:5736
development for nuclear accident dosimetry, 25:10884
development of activation filters—thermoluminescent detector combination for neutron dosimetry in mixed radiation field, 23:695 (BNWL-SA-1831(Rev.))
development of aluminum—copper alloy, for thermal and fast neutron flux monitoring, 22:4437
development of bare and cadmium-covered gold, for thermal neutron dosimetry following nuclear accident, 23:47844 (K-1763)
development of beryllium-9 gas flow, for in-core neutron flux measurements, 25:18646 (WHAN-SA-73)
development of beta-current, for neutron detection in Halden Boiling Heavy Water Reactor, 22:21312 (HPR-73)
development of Bonner multisphere, for neutron dosimetry and spectroscopy, 25:10811 (CEA-CONF-1685)
development of cadmium-covered gold and boron-shielded copper, for resonance neutron dosimetry following nuclear accident, 23:47844 (K-1763)
development of fast neutron, utilizing helium production in beryllium, 21:19967
development of glass bead, for measurement of thermal neutron flux, 21:32450
development of long-term, for integrated neutron flux monitoring, 24:39207 (IN-1317, pp 233-381)
development of multi-element, for resonance integral and resonance spectrum measurements, 22:16901
development of neptunium-237 and uranium-238 fission, for neutron fluence measurements, 24:31717
development of rhodium-103, for personnel dosimetry, 25:10882
development of semiconductor detectors for neutron fluence measurements using self-activation, 24:11811
development of spherical moderated rhodium, for pulsed neutron dosimetry, 24:33945 (SC-DC-70-4660)
development of spherical polyethylene-moderated, for neutron spectroscopy in keV range, 25:23840 (UCRL-20148)
development of sulfur and boron-shielded indium, for fast neutron dosimetry following nuclear accident, 23:47844 (K-1763)
development of thermal neutron flux scanner for Lucens reactor startup tests, 24:47722
development of, for use as personnel dosimeters, 21:8796 (ORNL-4007, pp 171-210)
diameter for wire optimum, 25:6206
effects on thermal neutron flux in water, (E/T), 21:2585 (SC-DC-66-1502)
efficiency for personnel dosimetry, counting technique for broken sulfur pellets for increasing, 23:45560
efficiency of foil, for neutron dosimetry in fast reactors, 22:48746
efficiency of grey, in neutron intermediate energy range, 24:47891 (ANL-7610, pp 369-464)
efficiency of sulfur pellet-type, for measuring fast neutron flux densities, 23:9709
efficiency of sulfur, for fast neutrons, separation of sulfur from phosphorus-32 by combustion for increasing, 22:21320(T) (ORNL-tr-1842)
efficiency of sulfur-32, for fast neutron detection, 21:17821 (UJV-1546)
electron self-absorption measurements in cobalt foil, internal conversion, 24:16854
energy thresholds of, for neutron spectral determinations, 24:33104
energy thresholds of, preparation of thin self-supporting nickel foils for setting, 23:31525
equations for continuous flow manganese bath, for neutron yield measurements, 24:9649
equations for neutron fluence measurements at 14.7 MeV, 24:11807
equipment for thermal neutron flux measurements, 23:35489
error calculation for unfolded spectra from, for determining neutron energy spectra, 23:665
fabrication of, 23:610 (CEA-R-3532)
fabrication of MgO—NiO and MgO—CoO, for in-core neutron flux monitoring, 25:55019(P)
fabrication of neutron, 22:19128(P)
feasibility of gallium, for solar neutrinos, 21:1572(T) (BNL-tr-88)
filters for non-1/v, use of gadolinium and samarium, 24:39236
gamma spectra data from, use of EL-X8 computer for evaluating, 22:19113
gamma spectra from thick disk, efficiency of scintillation detector for measuring, 24:50559
handling and readout system for in-core neutron flux measurements, 25:55008(P)
handling system for multiple foil, for neutron flux measurements, 24:48297
isotopes for use in in-pile multifoil, data tabulations for, 22:47318 (EURFNR-527)
neutron activation cross sections for aluminum, nickel, sulfur, and thorium, 21:26865(R) (HW-74679)
neutron activation of gold and indium foils in reactors, cadmium ratios and resonance self-shielding effects in, 21:17280
neutron capture cross sections and resonance parameters for A = 115 to 194 nuclei, thermal and epithermal, 23:3995 (BLG-421)
neutron cross sections for chromium, cobalt, iron, and nickel isotopes for use as, 21:26865(R) (HW-74679)
neutron cross sections for multiple, for fast neutron spectrum measurements, 24:25294 (KURRI-TR-61)
neutron cross sections for, fast, 21:26865(R) (HW-74679)
neutron differential cross sections for determining fast flux spectra, multiple foil activation iterative method for evaluating, 23:5858
neutron fluence—activity equations incorporating multiple-cycle irradiation and daughter burnup for, calculation of, 23:35458 (GEMP-699)
neutron flux depression by foils, thermal, (E/T), 25:8136
neutron flux measurements by Aeroball system of manganese mixed carbon steel balls in, description of, 22:39769 (EUR-3932)
neutron flux measurements in PCTR using, 22:22804(R) (BNWL-685)
neutron flux measurements in research reactors by, methods for, 22:12110
neutron flux measurements using aluminum, ASTM standard method for fast, 25:26481
neutron flux measurements using aluminum, ASTM standard method for fast, 25:26480
neutron flux measurements using iron, ASTM standard method for fast, 25:26477
neutron flux measurements using nickel, ASTM standard method for fast, 25:26479
neutron flux measurements using, ASTM standard method for thermal, 25:26475
neutron flux measurements using, ASTM standard method for, 25:26476
neutron flux measurements using, effect of internal scattering on count rate for thermal, 23:33389(T) (WAPD-Trans-117)
neutron flux measurements using, for calculation of dose, ASTM standard method for, 25:26535
neutron flux measurements with gold, for calibrating film badge, 25:32275(T) (SC-T-713011)
neutron flux perturbation by foil, in reactors, method for avoiding, 22:53470
neutron flux perturbations by adjacent gold, in water, 21:27514
neutron flux spectra for, reference computer library for, 24:16829 (AD-821616)
neutron reaction cross sections for, fast, 21:35489
neutron spectra from measurements by, calculation of, 21:29856
operation and performance for reactor neutron detection and measurement, 23:38246 (KAPL-M-6961)
performance for beam profile measurements for ORELA, 24:30621
performance for determining neutron doses in biological materials, 21:43389
performance for dosimetry of fast neutrons in seed irradiation program, 24:16896

- performance for dosimetry of fast neutrons in swimming pool reactor subcore facility, 24:16895
- performance for dosimetry of high-energy radiations, review on, 24:14324
- performance for EBR-II in-pile dosimetry using spectrum-corrected neutron cross sections, 24:10114 (GEMP-1012(Pt.1), pp 71-262)
- performance for fast neutron personnel dosimetry around Nimrod, 23:50178
- performance for fast neutron spectra measurements, 24:7641
- performance for fast neutron spectrum measurements at irradiation facility of Livermore Pool-Type Reactor, 23:31540 (UCRL-50007-68-3, pp 21-5)
- performance for integral fast neutron flux measurements, 21:14441 (UJV-1601)
- performance for neutron dose equivalent estimation from broad spectra, 23:50140
- performance for neutron spectra measurements, 25:13210 (JINR-P3-5421)
- performance for reactor in-core power monitoring, 21:6253
- performance for thermal neutron flux distribution measurements in swimming pool type research reactor, 25:12826
- performance in measuring EBR-II core neutron flux, 24:12435 (BNWL-1223, pp 5.1-40)
- performance in reactor shielding mock-up tests, 21:17478(T) (ORNL-tr-1519)
- performance of aeroball system for γ and neutron monitoring, 24:43605 (HPR-120)
- performance of all-solid self-powered rhodium wire, simulation test of in-core pressurized water reactor of, 23:21499(R) (BAW-3647-10)
- performance of all-solid self-powered, for reactor in-core neutron flux monitoring, 24:11154 (BAW-10001)
- performance of aluminum and nickel, with neptunium-237 and thorium-232 fission foils for fast neutron flux measurements, 24:44272
- performance of aluminum—dysprosium wire, description of, 22:32740(R) (BAW-3647-7)
- performance of aluminum-27, carbon-12, and fluorine-19, for monitoring high-energy bremsstrahlung beams, 25:32253
- performance of aqueous solution of copper sulfate, for integrated fast neutron flux measurements, 24:39229
- performance of Au—Co—La—Mn sandwiched, for measurement of neutron spectra in reactors, 21:30689 (CEA-R-3200)
- performance of cooling water, for continuous neutron flux measurements at 14 MeV, 24:41667
- performance of copper foil, for cyclotron beam monitoring, 25:1687
- performance of foil, 21:14084 (NSL-64-187-1964)
- performance of foil type, for measurement of fast neutron spectra, 25:12773 (BNWL-1403)
- performance of foil, for neutron flux distribution in rocket reactor core, (E/T), 24:46099
- performance of foil, for thermal neutron spectra in water moderated and graphite moderated natural uranium fueled lattices, (E/T), 24:46097
- performance of gold and cobalt, for thermal neutron flux measurements, 23:29175
- performance of gold foil, for absolute measurements of activity of neutron sources, 23:47749
- performance of gold foil, for nuclear flux measurement above 600 MeV, 24:44265
- performance of gold foils and spheres, 21:10641
- performance of indium and sulfur, for measuring criticality accident fast neutron dose, 25:10181
- performance of indium, for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
- performance of indium-115 isomeric, for activity measurement of multicurie sodium-24 gamma sources, 24:36591
- performance of iron, for integration of fast neutron fluxes, 22:23268 (UJV-1885)
- performance of manganese and vanadium bath, for absolute neutron source determination, 25:51852 (CONF-701002-, pp 470-80)
- performance of manganese sulfate bath, for fast neutron flux measurements, 25:13216
- performance of manganese sulfate bath, for neutron flux measurements at 10 keV to 1 MeV, 25:6543
- performance of moderated cobalt-59, for neutron fluence measurements, 24:4421 (CEX-65.60)
- performance of multifoil, for epithermal neutron detection, 25:39716
- performance of multifoil, for in-core fast neutron spectra measurements, 25:4357
- performance of multifoil, using activation of body sodium for personnel dosimetry of fast neutrons, 24:46515 (AHSB(RP)R-100)
- performance of multiple-foil, for neutron spectrum measurements, 22:4434
- performance of nickel foil, for thermal and fast neutron flux measurements, 24:485
- performance of resonance sandwich, for neutron spectra in cores 5, 9, and PuB-5 of FRO, (E/T), 24:31092 (AE-392)
- performance of rhodium wire, description of, 22:32740(R) (BAW-3647-7)
- performance of rhodium-wire in-core neutron, 23:4299 (BAW-3647-9)
- performance of sandwich, for measurement of 0.001 to 10 keV neutron spectra, (E/T), 25:28656(T) (EURFNR-842)
- performance of simultaneous gold and cobalt, for thermal neutron flux measurement, 23:47740
- performance of spherical paraffin-moderated indium, for fast neutron flux monitoring, 25:15912
- performance of sulfur pellet, for disaster monitoring, 23:47741
- performance of threshold, for fast neutron spectra, (T), 24:41063 (TRG-Report-1911, pp 411-29)
- performance of threshold, for measuring fast neutron spectra in water-cooled and water-moderated reactors, 23:50144
- performance of tungsten-184, for thermal neutron flux measurements at high temperature, 23:50145
- performance of various, for neutron spectra measurements at 1 eV to 10 keV, 25:8481 (KFK-1233)
- power monitor for liquid metal fast breeder reactors, description of, 22:14128 (ANL-7380, pp 140-5)
- preparation for in-core neutron flux monitoring, 25:57724 (CONF-711002-, pp 86-90)
- preparation for neutron monitoring, 24:29443(R) (ORNL-TM-2985)
- preparation of Al_2O_3—CoO and MgO—CoO, for high-temperature neutron flux measurements, 25:57723 (CONF-711002-, pp 82-5)
- preparation of gold, lanthanum, and sulfur, use of polyvinyl alcohol for, 22:14814
- preparation of plutonium-239 and plutonium-241, for EBWR capture-to-fission measurements, 22:32961 (ANL-7310, pp 377-430)
- preparation of thin, for neutron flux measurements, 22:2340 (ABS-THH-1033)
- properties and use of set of seven, for fast neutron spectroscopy, 24:27384 (IJS-570)
- properties for sandwich foil measurements of fast and thermal neutron spectra, 22:20403 (CONF-680307-14)
- properties of self-powered, in mixed neutron—gamma fields, 24:48278
- radiation effects on cobalt, rhodium, vanadium, and Zircaloy in-core flux, neutron, 21:43225 (DPSPU-67-30-5)
- radiation efffects on performance of in-pile, γ, (T), 25:44103
- readout system for wire, for reactor neutron flux mapping, 24:50568
- response of bare and cadmium-shielded gold, for personnel albedo neutron dosimetry, 24:33944 (LA-4341)
- response of cadmium-shielded paraffin-moderated indium, for fast neutron flux measurements, 25:8495
- response of copper-63 and phosphorus-31, for neutron dose measurements, 23:47747
- response of in-core neutron flux monitor, for use in pressurized water reactors, (E), 23:52329 (BAW-3647-13)
- scattering and self-shielding corrections in bare and cadmium-covered gold, indium, and 1/v, for neutrons, 21:34489
- sensitivity for neutron dosimetry in intense radiation fields, 22:21363
- sensitivity of manganese sulfate, extension of range of, 21:41229
- sensitivity of self-powered rhodium, for in-core thermal neutron flux measurements, differential, 24:11804
- testing of rhodium-type, description of LPR high-temperature tank facilities for, 22:37528(R) (BAW-3647-8)
- theory for neution flux measurements, 25:23776 (RFP-1466)
- thickness-correction factors for neutron-irradiated gold foil, 23:47730 (ANL-7545)
- transfer system for pellet-type, for in-core measurements, design of pneumatic, 24:20992(P)
- use as high-energy proton dosimeters, 22:6658
- use as radiation monitors in accelerators and reactors, precise counting methods for, 22:14783
- use for determining fast neutron spectra, 21:17823(T) (ORNL-tr-1520)
- use for determining slow neutron spectra, 21:6252
- use for dosimetry, method for, 22:21356 (CEA-R-3376)
- use for epithermal neutron spectroscopy, 21:32373(T) (AEC-tr-6719, pp 7-18)
- use for fast neutron flux spectrum determination, 21:17824(T) (ORNL-tr-1521)
- use for fast neutron spectra, 21:3269
- use for fast neutron spectra measurements, 22:8339 (JUL-414-RX)
- use for fast neutron spectroscopy, (E/T), 22:26779
- use for measurement of fission-neutron spectra, 22:16046
- use for measurement of hyperfine structure of thermal neutron spectrum in heavy water-moderated cluster-type uranium and uranium carbide (UC) fuel elements, 23:15743
- use for measurement of reactor fast neutron spectra, (T), 24:16312
- use for measurement of thermal neutron spectra in unmoderated reactor systems, 21:44527
- use for measurement of thermal neutron spectra, technique for, 21:15471
- use for measuring epithermal neutron spectra, 22:8348
- use for measuring fast neutron spectra, 23:2558 (KURRI-TR-27)
- use for measuring neutron flux distribution near ends of uranium fuel rods, 21:21685
- use for measuring neutron flux in ORGEL-type clusters, 21:30268
- use for measuring thermal neutron flux, self-absorption, self-shielding, and flux depression effects in, 22:23289
- use for measuring thermal neutron flux, self-absorption, self-shielding, 22:23289
- use for measuring thermal neutron spectra in borated water solutions, 21:34488
- use for neutron diffusion parameter measurements in concrete, 21:21366 (AD-646630)
- use for neutron fluence measurements in WWR-S, 22:16294 (UJV-1905)
- use for neutron flux measurements in reactors, 21:41204 (EUR-3567.f)
- use for neutron spectroscopy, 21:36346 (SC-DC-67-1572)
- use for neutron spectroscopy at 0.025 eV to 25 GeV, unfolding technique for, 22:12596 (RHEL/R-154)
- use for power measurements in ATR Critical Facility, 21:14074 (IN-1047)
- use for slow neutron detection, 22:12586
- use for thermal neutron density distribution measurements in multi-layer cells of ANNA research reactor, 21:21788
- use in measurements of fast neutron flux in reactors, 21:16147 (UJV-1712)
- use in neutron measurements for metal damage tests, tables on, 23:41682(R) (EURAEC-2087)
- use of aluminum-27 and gold-198, for determining fission neutron spectra through (n,γ) reactions, 22:14804
- use of chlorine-37, gallium-71, and lithium-7, for thermometry of solar interiors by neutrino detection, 23:41861
- use of closely spaced indium foils for determining thermal neutron flux perturbation factors in research reactors, 23:670
- use of cobalt, for in-core thermal neutron fluence measurements, 25:51850 (CONF-701002-, pp 327-30)
- use of cobalt, for thermal neutron flux measurements, 22:4426 (JUL-495-RX)
- use of continuous flow manganese, for measuring neutron yield of accelerator sources, 22:36037
- use of copper, for measurement of 14-MeV neutron flux, 22:16857 (CEA-R-3295)
- use of copper, gold, magnesium, and sulfur, for fast neutron spectroscopy, 22:19146
- use of energy-independent gold foil, for dosimetry of pulsed neutrons, 23:4848
- use of gas in-pile loop, for monitoring thermal neutron flux in Grenoble reactors, 21:21757 (CONF-651154-5)
- use of gold foil, for determining fast-to-thermal neutron ratios using lithium-drifted germanium spectrometers, 22:38029
- use of gold foil, for rapid assessment of pulsed neutron dose, 21:26157 (UCRL-50007-66-2, pp 7-12)
- use of gold, for absolute thermal neutron flux measurements, 21:30688 (CEA-R-3166)
- use of gold, for detection of neutrons from concrete shielding of LRL Van de Graaff accelerator, 22:9720 (UCID-15235)
- use of gold, for neutron flux measurements for calibration of film badges, 21:43241
- use of gold, for neutron flux measurements in reactors, 21:39173 (ABS-THH-1022)
- use of gold-foil, for thermal-neutron beam density measurements, corrections in, 21:26171
- use of indium foil, for measuring thermal and resonance neutron flux from d—T neutron generators, 23:2624
- use of iron in, as fast-neutron monitor, 21:6304 (AERE-M-1778)
- use of iron-57 and vanadium-51, for calibration of long counters for fast neutrons, 24:39209 (AERE-R-6429)
- use of manganese, for measuring neutron flux distribution in Windscale AGCR, 21:21684
- use of multifoil isomeric, for gamma spectroscopy, 23:676
- use of nickel foils as, for neutron flux integration, 21:38162 (UJV-1600)
- use of niobium-93, for fast neutron fluence detection, 22:8352
- use of niobium-93, for neutron dosimetry, 22:28177 (FFN-74)
- use of non-1/V foil, for measuring hardened thermal neutron spectra, 21:26166
- use of phosphate glass, for dosimetry of neutrons simultaneous with x ray and gamma photoluminescent dosimetry, 22:14859
- use of phosphorus—gold and sulfur—gold, for neutron dosimetry in reactors, 23:11873
- use of resonance foil sandwich, for measuring epithermal neutron spectra, 21:19962
- use of resonance sandwich foil, for measuring neutron spectra above Windscale AGCR, 21:21686
- use of resonance, for detecting 0.46-eV to 5.8-keV neutrons in absorbing hydrogenous media, 22:24821
- use of stainless steel wire, for measuring Windscale AGCR fuel fission rate distribution, 21:21682
- use of threshold, for fast neutron flux measurements, 21:35567 (BNWL-SA-1102)
- use of titanium, for measuring fast neutron integrated flux, 21:19900 (NP-16620)
- use of transparent, for neutron dosimetry based on Cherenkov effect of induced beta radiation in, 21:43285
- use of uranium foil, for Fermi Fast Breeder flux measurements, 21:38557
- use of uranium, for fast-fission measurements in reactors, corrections for, 22:10565
- use of uranium-238, for fast neutron flux measurements in research reactors, 22:40376
- use of uranium-238, thorium-232, and aluminum-27, for thermal neutron flux measurements in research reactors, 22:40376
- use to measure radiation fluxes, review of, 21:36335 (CERN/DI/HP-90)
- use with fission chamber for absolute neutron flux determination, 22:28105
- use with photographic film for personnel neutron dosimetry, 21:19893 (BNWL-339)

RADIATION DETECTORS, BUBBLE CHAMBER
- background in proposed NAL 25-foot, muon, 24:50603 (TID-25473(Vol.2), pp 197-201)
- beam contamination of 7-GeV/c antiproton beam in BNL, use of delta-ray spectrum for determining, 22:36100
- beam direction in, use of conversion pairs and gamma-quantum spectrum for determining neutral, 21:3244 (JINR-P-2916)
- beam injection in high magnetic field hydrogen, 21:39186 (RHEL/S-101)
- beam inlet channel for hydrogen, design of photon, 24:14307
- beam positioning in, automatic system for secondary particle, 25:22920
- beam scan of, design of 20-channel stepper magnet for Bevatron, 21:997
- book: Bubble and Spark Chambers, 21:30729

book: Bubble and Spark Chambers, Vol. I, 22:38096
book: Bubble Chambers, 22:40468
book: Progress in Nuclear Techniques and Instrumentation. II, 21:29821
bubble contrast and shape in, with bright-field illumination, 25:18789
bubble densities in liquid hydrogen and deuterium, electron-track, 23:4835 (DESY-68/45)
bubble density and growth in propane, 22:12629 (CERN-67-26(Vol.2), pp 405-12)
bubble density in Brookhaven 80-inch hydrogen, 21:16121 (CONF-660918-, pp 145-8)
bubble density in propane, effects of pressure, temperature, and growth time on, 21:19912
bubble density in, methods for determining, 21:3267
bubble density measurements in, computer program for, 23:9745 (UCRL-18545)
bubble dynamics in hydrogen, measurement of formation, growth, and recompression for, 21:36336 (DESY-67/14)
bubble dynamics in liquid hydrogen, effects of ultrasound on, 25:35005 (JINR-P13-5751)
bubble dynamics in liquid hydrogen, in ultrasonic field, 25:4371 (JINR-P13-5327)
bubble dynamics in liquid hydrogen, in ultrasonic field, 25:39756(T) (CERN-Trans-71-2)
bubble formation in liquid hydrogen, 22:12628 (CERN-67-26(Vol.2), pp 389-404)
bubble formation in liquid hydrogen, 25:21439
bubble formation in temperature- and pressure-stabilized, 24:21021
bubble formation in, calculation of electric field intensities for, 25:2485 (JINR-P13-5277)
bubble growth and condensation in liquid hydrogen, theory of, 22:30855 (JINR-P13-3726)
bubble growth in liquid propane, 23:2654
bubble growth rate in, ultrasonic measurement of sub-visible, 24:5927
bubble nucleation by high-energy ionizing particles, thermodynamic theory of, 22:362
bubble nucleation on metallic surfaces immersed in cryogenic fluids in, 25:34958 (CONF-700623-(Vol.1), pp 449-58)
bubble size measurement by image contrast in brightfield illuminations, 25:18792
calibration of hydrogen, as spectrometer for low momentum electrons, 22:6594
camera control circuit for, multiple frame advance, 24:4492
camera design for proposed NAL 25-foot, 24:50611 (TID-25473(Vol.2), pp 255-69)
camera lens for RHEL liquid helium, design and fabrication of telecentric, 22:19157
camera port windows in, method for determining alignment tolerances for, 21:16146 (UCRL-17259)
camera positions in, iteration method for determining, (E), 21:17858
cavitation nucleation by neutrons in, (T), 21:39175 (AERE-R-5486)
characteristics of Gargamelle, 25:34944 (CONF-700623-(Vol.1), pp 136-44)
charged-particle ionization in, equipment for measuring, 23:2651
charged-particle parameters in hydrogen, computer program for determining, 22:33665
components and applications of, bibliography on, 21:28201 (BNL-8083(Suppl.1))
conference, 22:12603 (CERN-67-26(Vol.1))
conference, 22:12624 (CERN-67-26(Vol.2))
construction and operation of liquid hydrogen, 22:6649
construction of MIT 300-liter, status of, 22:30856 (MIT-2098-422, pp 10-12)
control system for CERN 2-meter liquid-hydrogen, description of computer, 25:34946 (CONF-700623-(Vol.1), pp 256-73)
conversion of BNL 7-foot, to 11-foot chamber, 25:34978 (CONF-700623-(Vol.2), pp 735-49)
cryogenic systems for NAL 15-foot hydrogen, safety analysis of, 25:13298 (NAL-48-2624)
cryogenics for, developments in, 25:43735
data acquisition system for SLAC 40-inch hydrogen, description of scintillation-counter, 25:34970 (CONF-700623-(Vol.2), pp 617-28)
data analysis for, review of principles and methods of, 24:4483
data from, design of magnetic tape recording system for storing, 23:41069
data from, general statistics program for analysis of, 21:34473 (RHEL/R-143 and Suppl.)
data from, processing of, 21:1596
data processing developments in, 21:1565 (BNL-10673)
data processing for, conference on advanced, 23:33491 (ANL-7515)
data processing for, economic and engineering aspects of, 21:1570 (UCRL-17096)
data processing for, multiprogramming system for coordinating FSD and other data analysis systems for, 23:33501 (ANL-7515, pp 226-32)
data processing system for, time-sharing computer, 23:9785 (BNL-13045)
data recording systems for, development and performance of, 21:44275(R) (ORO-2504-107)
description and operation of Northwestern Univ. 50-inch liquid helium, 21:16119 (CONF-660918-, pp 134-9)
description of 50-cm hydrogen, 22:38086
description of 50-cm liquid helium, at Northwestern Univ, 22:47380
description of ANL 12-foot hydrogen, 25:34974 (CONF-700623-(Vol.2), pp 675-95)
description of Frascati 70-liter heavy gas—liquid, with internal hydrogen target, 25:35007 (LNF-70/25)
description of French hydrogen, for Serpukhov Synchrotron, 23:42802
description of Gargamelle heavy liquid, at CERN, 22:36106
description of ITEP 2-meter liquid hydrogen, 25:42145
description of large heavy liquid Gargamelle, 21:16114 (CONF-660918-, pp 100-1)
description of large hydrogen, for research in neutrino physics at 15 to 80 GeV, 25:34941 (CONF-700623-(Vol.1), pp 56-96)
design and construction of Gargamelle, review of technical problems in, 25:34959 (CONF-700623-(Vol.1), pp 460-76)
design and construction of Mirabelle, 23:29226
design and development of, conference on, 25:34938 (CONF-700623-(Vol.1))
design and development of, conference on, 25:34966 (CONF-700623-(Vol.2))
design and fabrication of 1-meter hydrogen test, 22:12613 (CERN-67-26(Vol.1), pp 181-9)
design and fabrication of 15-m-diameter by 6-m-length hydrogen, 22:12614 (CERN-67-26(Vol.1), pp 191-7)
design and fabrication of ANL 12-ft hydrogen, status of, 22:12608 (CERN-67-26(Vol.1), pp 97-102)
design and fabrication of Gargamelle heavy liquid, status of, 22:12610 (CERN-67-26(Vol.1), pp 111-33)
design and fabrication of large European hydrogen, 22:12609 (CERN-67-26(Vol.1), pp 103-9)
design and fabrication of large hydrogen and propane, 23:43601
design and fabrication of Mirabelle hydrogen, status of, 22:12611 (CERN-67-26(Vol.1), pp 135-46)
design and fabrication of propane, with pulsed magnetic field, 22:25669 (BMwF-FBK-68-02)
design and fabrication of RHEL hydrogen, 22:12612 (CERN-67-26(Vol.1), pp 147-65)
design and operation of, 23:22097
design and operation of, 23:38317
design and operation of ANL-MURA 30 inch hydrogen, 21:16117 (CONF-660918-, pp 106)
design and operation of cylindrical Mura model heavy liquid, 22:12640 (CERN-67-26(Vol.2), pp 513-49)
design and operation of ITEP 2-meter liquid hydrogen, 24:16884 (ITEF-689)
design and operation of ITEP 2-meter liquid hydrogen, 25:21436
design and operation of rapid-cycling, 25:34955 (CONF-700623-(Vol.1), pp 408-17)
design and operation of Rutherford 80-cm liquid helium, cryogenic problems in, 23:6313
design and operation of track-sensitive hydrogen target inside neon—hydrogen, 22:368
design and operation of ultrasonic helium, 23:24464
design and operation problems of proposed NAL 25-foot, 24:50597 (TID-25473(Vol.2), pp 165-72)
design and performance of 200 liter, in magnetic field, 21:1592
design and performance of convoluted bellows, coil-expansion-driven, liquid hydrogen, 24:2494
design and performance of Mirabelle, description of, 25:34973 (CONF-700623-(Vol.2), pp 647-74)
design and performance of MIT 500-liter hydrogen, 23:17799
design and performance of, for study of radioinduced bubble nucleation in superheated water, 23:47703 (SU-326-P-13-4)
design and performance of, review of, 24:4487
design and testing of Gargamelle heavy liquid, 22:12606 (CERN-67-26(Vol.1), pp 73-86)
design and uses of ANL 12-ft hydrogen, for neutrino physics, 22:12607 (CERN-67-26(Vol.1), pp 87-94)
design characteristics and operation of Michigan—Argonne 40-inch, 21:16113 (CONF-660918-, pp 99)
design configuration of proposed 25-foot, for study of total cross sections and W production in $\tau + p$ and $\tau + d$ interactions at high energies, 24:51906 (TID-25473(Vol.2), pp 121-42)
design considerations for BNL 11-foot, 25:34978 (CONF-700623-(Vol.2), pp 735-49)
design considerations for NAL, 25:34975 (CONF-700623-(Vol.2), pp 696-702)
design considerations for proposed NAL 25-foot, spherical, 24:50607 (TID-25473(Vol.2), pp 225-8)
design for strong-interaction experiments, parameter optimization in, 25:34939 (CONF-700623-(Vol.1), pp 5-41)
design modifications for SLAC 40-inch hydrogen, 24:7651 (SLAC-106)
design modifications for studies of radioinduced bubble nucleation in superheated water, 25:13152(R) (SU-326-P-13-5)
design of 1.5-m-diameter, with superconducting magnet, 21:45374(T) (SLAC-Trans-72)
design of 180-liter xenon, 25:18783
design of 300-liter PK-300, 23:33526
design of 80-cm long cylindrical helium, 23:692
design of fast-cycling hydrogen, 22:12627 (CERN-67-26(Vol.2), pp 379-87)
design of high-resolution and -data-acquisition-rate high-field, 25:15939
design of hydrogen—neon, 22:4481(P)
design of hyperon bubble chamber HYBUC, 25:34972 (CONF-700623-(Vol.2), pp 640-6)
design of ITEP 2-meter liquid hydrogen, 25:26508 (NP-18787)
design of large hydrogen, for CERN synchrotron, 21:41208
design of plate arrays in proposed NAL 25-foot, for measurement of mesons (π^0) momentum, 24:50606 (TID-25473(Vol.2), pp 213-23)
design of SLAC 40-inch hydrogen, 21:16118 (CONF-660918-, pp 107-21)
design of Stanford Linear Accelerator, engineering drawings for, 22:32387
design of ultrasonic helium, 23:35515
design parameters for, optimization of, 22:12605 (CERN-67-26(Vol.1), pp 25-47)
design parameters of BEBC, 25:34976 (CONF-700623-(Vol.2), pp 703-13)
design proposals for NAL 25-foot, 1969 Summer Study on, 24:50586 (TID-25473(Vol.2))
design specifications for proposed 1.5-meter High Field Bubble Chamber, at Rutherford High Energy Laboratory, 25:34977 (CONF-700623-(Vol.2), pp 714-34)
design status of ANL 12-foot hydrogen, 21:16116 (CONF-660918-, pp 104-5)
design, fabrication, and operation of 50-cm liquid-helium, 21:272 (AD-631930)
design, operation, and uses of, 21:12645(T) (AD-643601)
development, 21:33811 (RHEL/R-144, pp 61-71)
development and operation, 21:17019(R) (UCRL-17282)
development and operation of ANL 12-ft, 25:34980 (CONF-700623-(Vol.2), pp 765-73)
development and operation of hydrogen, 22:9497(R) (UCRL-17544)
development and operation of, survey on, 24:41693
development and research capabilities of, 24:48319 (UCRL-19870)
development and use for low-level counting, 23:38245 (JLI-3506-41)
development and use of large, for neutrino physics, 22:12604 (CERN-67-26(Vol.1), pp 3-23)
development and use of large, for neutrino physics, 23:23329
development and uses of heavy liquid, 21:34470 (NP-16781, 49-54)
development at CERN, 1967, 22:50491(R) (NP-17628)
development at CERN, 1968, 23:37041(R) (NP-17947)
development at CERN, 1969, 24:47533(R) (NP-18336)
development at CERN, 1970, 25:53422(R) (NP-18906)
development at Rutherford, 1969, 24:47534(R) (RHEL/R-191)
development for discovery of new elementary particles, review on, 23:45546
development for high energy physics research, present status and future projections for, 24:3490 (TID-25251)
development for measurement of particle trajectories, 24:50625 (TID-25473(Vol.3), pp 103-16)
development for operation under superheat conditions, 23:11714(R) (SU-326-P-13-3)
development for strong interaction studies, 24:50613 (TID-25473(Vol.2), pp 277-8)
development for use at proposed 300-GeV proton synchrotron, 22:48387 (CERN/ECFA-67/16(Vol.1))
development for use with NIMROD, 21:32372 (RHEL/R-129, pp 79-95)
development of, 23:9741 (BNL-12953)
development of 12-foot, for neutrino experiments, 24:15453 (CERN-69-28, pp 3-12)
development of 14-foot, 21:26144 (BNL-11313)
development of 14-foot cryogenic, for use with deuterium, hydrogen, or neon—hydrogen mixtures, 21:10602 (BNL-10751)
development of BNL 7-ft, 25:34981 (CONF-700623-(Vol.2), pp 774-89)
development of fast-cycling hydrogen, 22:12626 (CERN-67-26(Vol.2), pp 371-7)
development of Freon filled, for low-level counting, 21:32325 (CONF-661203)
development of high magnetic field hydrogen, for NIMROD, economic and technological aspects of, 21:39186 (RHEL/S-101)
development of high-repetition-rate hydrogen,, 21:19895 (CEA-R-3144)
development of hydrogen, 21:22159
development of hydrogen, for Argonne Zero Gradient Synchrotron, 22:28168
development of large hydrogen, for CERN proton synchrotron, 21:29657 (CERN/TC/BEBC-66-73)
development of Mirabelle, 25:46633
development of Mirabelle hydrogen, 22:2422
development of neutral-particle tagging facility for ANL 30-inch, using spark chambers, 25:34967 (CONF-700623-(Vol.2), pp 582-92)
development of rapid-cycling, 24:50612 (TID-25473(Vol.2), pp 271-6)
development of rapid-cycling, 25:34952 (CONF-700623-(Vol.1), pp 346-75)
development of rapid-cycling, 25:34954 (CONF-700623-(Vol.1), pp 390-407)
development of rapid-cycling, at Univ. of Wisconsin, 25:34956 (CONF-700623-(Vol.1), pp 418-23)
development of super, 21:16155
development of ultrasonic, 25:34953 (CONF-700623-(Vol.1), pp 376-89)
development of, 1964-1966, 21:14422 (ANL-7265)
development of, book on, 21:26205
development of, review of, 24:49354 (NP-18410)
development of, review of, 23:46591
development of, review of history of, 25:38681
development of, review on, 24:46513
development possibilities of supercooled liquid, of permanent sensitivity, 24:44316
development to study radioinduced bubble formation in superheated water, 22:10487(R) (SU-326-P-13-2)
development, design, and use of, 24:48322
developments in cryogenic, 25:42137
distortion effects in geometrical reconstruction of events in CERN 2-m hydrogen, 25:18777 (USIP-70-6)
efficiency of xenon, for measuring gamma radiation, 22:45335 (JINR-P13-3918)
electron energy measurements in freon, use of photons from decay of π^0 for, 23:47822
electron momentum errors for one and two $\pi^0 \rightarrow 2\gamma$ decays in proposed hydrogen—neon 25-foot, 24:50590 (TID-25473(Vol.2), pp 45-67)
electron momentum measurements in heavy liquid, radiation correction calculations for pulsed, 23:31552
electron trajectories in heavy-liquid, γ and π^0 production determination from, 22:44300 (LAL-1190)
electron—photon showers in xenon, fluctuations of average characteristics of, 23:51830 (JINR-P1-4562)
expansion in heavy liquid, elastically suspended plates for control of, 22:12633 (CERN-67-26(Vol.2), pp 467-71)
expansion in, thermodynamics of, 23:4834 (DESY-68/43)

expansion of MURA Freon, liquid oscillations from, 22:12619 (CERN-67-26(Vol.1), pp 263-93)
expansion system and high-speed valve for, design of, 22:47377
expansion system for 3.5-m hydrogen, 22:12634 (CERN-67-26(Vol.2), pp 473-8)
expansion system for 4.5-meter, pneumatic, 25:44685 (NP-18930)
expansion system for 75-cm hydrogen, pneumatic, 25:44686 (SJC-T-71-2)
expansion system for ANL 12-ft hydrogen, 22:12637 (CERN-67-26(Vol.2), pp 493-500)
expansion system for ANL 12-ft hydrogen, design of, 22:12639 (CERN-67-26(Vol.2), pp 507-11)
expansion system for BEBC, description of servo-controlled, 25:34988 (CONF-700623-(Vol.2), pp 873-92)
expansion system for BEBC, design criteria for piston in, 25:34985 (CONF-700623-(Vol.2), pp 836-48)
expansion system for cryogenic, piston, 24:27418
expansion system for Gargamelle heavy liquid, analog simulation of, 23:16148 (CEA-CONF-1127)
expansion system for heavy-liquid Gargamelle, analog simulation of, 24:36623
expansion system for heavy-liquid, design of hydraulic, 23:47838
expansion system for helium, operation and performance of ultrasonic, 23:7792
expansion system for High Field Bubble Chamber, design and performance of fiber-glass-reinforced epoxy-resin bellows for, 25:34986 (CONF-700623-(Vol.2), pp 849-62)
expansion system for high magnetic field hydrogen, at NIMROD, 21:39186 (RHEL/S-101)
expansion system for large, fabrication of seal for piston in, 24:41694(P)
expansion system for Mirabelle, design of, 25:34979 (CONF-700623-(Vol.2), pp 751-64)
expansion system for proposed Rutherford HFBC, design of resonant, 25:34984 (CONF-700623-(Vol.2), pp 824-35)
expansion system for, description of high-speed, 22:19158(P)
expansion system for, design of, 25:51898(P)
expansion valve for 2M liquid hydrogen, design of rapid cycling three-stage, 21:43270
expansion valve of, development of critically damped oscillatory linear induction engine for driving, 21:24269
failure of NAL 15-foot hydrogen, safety analysis of rupture, 25:13298 (NAL-48-2624)
fiducial system for large, using laser beams, 25:13303
fluid dynamics, 22:35181
gamma energy measurements in xenon, precision of, 22:38084
hydrodynamical processes in light liquid/heavy liquid, with floating glass partition, 25:6559 (JINR-P13-5291)
illumination of, use of coat hanger retro-reflectors for, 21:16146 (UCRL-17259)
illumination of, use of ruby lasers for, 21:19908(T) (BNL-tr-53)
illumination system for hydrogen, performance of Scotchlite in, 22:28170
illumination system of, performance of Scotchlite in, 21:3247 (SLAC-PUB-230)
illumination systems for Russian PK-300, evaluation of, 22:38085
illuminator sealing in, method for, 21:6247
illuminators for large hydrogen, method for sealing, 22:19156
instrumentation for ANL 12-ft hydrogen, 22:12638 (CERN-67-26(Vol.2), pp 501-5)
instrumentation for pulsed, electronic, 21:1597
lenses for Argonne 12-ft, development of wide-angle, 22:12622 (CERN-67-26(Vol.1), pp 329-40)
light source for, design and fabrication of shunt overvoltage triggering circuit for xenon flashtube, 21:4713 (NP-15767)
liquid for, thermodynamic properties of propane, 25:10876
liquids for, refractive indices of neon—hydrogen mixtures and neon, 25:34963 (CONF-700623-(Vol.1), pp 543-54)
liquids for, survey on properties of, 25:21439
liquids for, thermodynamic and physical properties of bromotrifluoromethane—propane mixtures for, 23:45551
liquids in large cryogenic, properties of hydrogen—neon, 25:34962 (CONF-700623-(Vol.1), pp 532-42)
magnet carriage for 72-in. hydrogen, engineering drawings for, 21:321
magnet coil spacing of proposed NAL 25-foot, 24:50598 (TID-25473(Vol.2), pp 173-4)
magnet coils for 12-ft, insulation for superconducting, 22:38999
magnet coils for 14-ft, design of superconducting, 21:30685 (BNL-11267)
magnet coils for Argonne 12-ft, adhesive and insulating system for superconducting, 23:26579
magnet coils for Argonne, electrical testing of, 23:28120
magnet coils for, design of fast pulsed 225 kG, 22:21354
magnet design for Mirabelle hydrogen, 22:12636 (CERN-67-26(Vol.2), pp 485-92)
magnet design for, large superconducting, 21:1564 (ANL-7192)
magnet for 25-liter, 70-kOe pulsed, 25:8555
magnet for ANL 3.7-m, design of 18-kG superconducting, 23:42786 (BNL-50155(Pt.3), pp 709-966)
magnet for BEBC hydrogen, design of test facility for analysis of conductors used to wind superconducting, 23:38265
magnet for BEBC, design and development of superconducting, 25:35001 (CONF-700623-(Vol.2), pp 1126-49)
magnet for BNL 7-foot, design of superconducting, 22:51249 (BNL-12897)
magnet for BNL 7-foot, design of superconducting, 23:42786 (BNL-50155(Pt.3), pp 709-966)
magnet for BNL, 9-ft diameter superconducting, 23:14038
magnet for CERN hydrogen, superconducting, 24:50633
magnet for CERN, development of superconducting, 25:32269 (CEA-CONF-1735)
magnet for European 3.7-meter, design of superconducting, 23:42786 (BNL-50155(Pt.3), pp 709-966)
magnet for ITEP 2-meter liquid hydrogen, 25:21435
magnet for large, development of superconducting, 22:12632 (CERN-67-26(Vol.2), pp 457-64)
magnet for NAL 25-foot, design of superconducting, 23:42786 (BNL-50155(Pt.3), pp 709-966)
magnet for Rutherford Laboratory 1.5-meter hydrogen, design of superconducting, 23:42786 (BNL-50155(Pt.3), pp 709-966)
magnet for, analog model of, 25:23851 (SJC-T-70-2)
magnet performance for Oxford—Rutherford 80-cm helium, 22:10603
magnet power supply system for 100-cm liquid hydrogen, 25:42143
magnet system for 25-cm, design of superconducting, 21:16127 (CONF-660918-, pp 264-5)
magnet system for ANL 12-foot, refrigeration aspects of superconducting, 25:435
magnet system for ANL 12-ft hydrogen, 22:10600
magnet system for ANL 12-ft hydrogen, design of superconducting, 22:12631 (CERN-67-26(Vol.2), pp 427-33)
magnet system for, design of 1.3-m-diameter 50-kG, 22:10601
magnetic field applications in large hydrogen, 22:21352
magnetic field in 2m hydrogen, calculation of, 23:6311 (JINR-P13-4134)
magnetic field in BNL 30-in hydrogen, measurement and least squares fitting of, 22:23319 (BNL-12374)
magnetic field of BEBC, methods for determination of, 25:35002 (CONF-700623-(Vol.2), pp 1150-71)
magnetic field parameter for neutrino physics in proposed NAL 25-foot, 24:50600 (TID-25473(Vol.2), pp 181-3)
magnetic field parameter for strong-interaction physics in proposed NAL 25-foot, 24:50599 (TID-25473(Vol.2), pp 175-80)
magnets for Argonne and Brookhaven, design of fully stabilized superconducting strips for, 22:28173
magnets for high-field, magnetization-current effects in multifilament superconducting, 25:35000 (CONF-700623-(Vol.2), pp 1095-1125)
magnets for, design and performance of superconducting, review, 22:1107
magnets for, design of large superconducting, 25:34999 (CONF-700623-(Vol.2), pp 1040-94)
magnets for, design of pulsed, 22:6644
magnets for, development of superconducting, 21:29672 (SLAC-PUB-274)
magnets for, development of superconducting, 22:50486 (BNL-12832)
magnets for, review of superconducting, 22:37237
mass resolution for $\pi^+ + p \to 2\pi^+ + \pi^- + p$ interactions at 50 to 100 GeV/c in large, 24:50589 (TID-25473(Vol.2), pp 33-44)
meson (K) energy ranges in, analytical formulas for calculating, 22:30865
meson (K^-) cascade time in liquid helium, 25:5254
meson (μ^+) range in deuterium, $\pi^+ \to \mu^+ + \tau$ decay for, (E), 22:32047 (UCID-3162)
meson (π) energy ranges in, analytical formulas for calculating, 22:30865
mixtures in 1.5-meter, study of homogeneity and stopping power of neon—hydrogen, 25:51894 (RHEL/R-218)
neutrino interactions in 15-foot, performance of lead-plate proportional quantameter for detection of mesons (π^0) from, 25:424 (UH-511-83-70)
neutrino physics in heavy-liquid Gargamelle, proposed research program for 1971, 25:34943 (CONF-700623-(Vol.1), pp 123-35)
nuclear background effects on $\pi^- + p$ interactions in propane—xenon, 21:17052
operation and development of Gargamelle, 24:8781(R) (LAL-1224)
operation of, 23:9741 (BNL-12953)
operation of 34-cm freon, in photon beam of 2-GeV electron linac, 25:21434
operation of 80 cm helium, 22:53047(R) (RHEL/R-162)
operation of ANL 12-ft hydrogen, 22:12637 (CERN-67-26(Vol.2), pp 493-500)
operation of existing, reports and discussion of, 25:34945 (CONF-700623-(Vol.1), pp 196-255)
operation of INS 75-cm liquid hydrogen, 25:29372 (SJC-T-71-1)
operation of propane, and Jena 30-MeV betatron, 22:32381
operation of pulsed field, up to 225 kG, 21:16128 (CONF-660918-, pp 266-7)
operation of, with liquid argon and liquid nitrogen, 23:31547 (AD-417141)
operation with 100-kOe pulsed magnetic field for high-energy experiments, 21:288
optical anisotropy of safety glass of 5-meter, 23:691 (JINR-P13-4059)
optical constants for ANL 12-foot, use of tables of, 25:34947 (CONF-700623-(Vol.1), pp 275-302)
optical system for 75-cm hydrogen, 25:57826 (SJC-T-71-3)
optical system for ANL 12-ft, compensation for concentricity problems in fisheye windows for, 25:34996 (CONF-700623-(Vol.2), pp 997-1009)
optical system for ANL 12-ft, development and performance of wide-angle camera lens for, 25:34991 (CONF-700623-(Vol.2), pp 915-42)
optical system for BEBC, design of wide-angle, 25:34990 (CONF-700623-(Vol.2), pp 902-14)
optical system for Gargamelle, calibration of objectives for, 25:34993 (CONF-700623-(Vol.2), pp 959-71)
optical system for Mirabelle hydrogen, 22:12636 (CERN-67-26(Vol.2), pp 485-92)
optical system for Mirabelle, design and calibration of, 25:34992 (CONF-700623-(Vol.2), pp 943-58)
optical system for Mirabelle, illumination and lenses for, 25:34994 (CONF-700623-(Vol.2), pp 972-83)
optical system for proposed NAL 25-foot, 24:50601 (TID-25473(Vol.2), pp 185-7)
optical system for, design and performance of, 25:51901
optical system for, design of, 22:49119(P)
optical system of Gargamelle, development of, 25:35003 (CONF-700623-(Vol.2), App.I)
optical system of High Field Bubble Chamber, mounting of fisheye windows for, 25:34997 (CONF-700623-(Vol.2), pp 1010-23)
optical system of large European hydrogen, 22:12623 (CERN-67-26(Vol.1), pp 341-6)
optical system of large heavy liquid Gargamelle, 22:12620 (CERN-67-26(Vol.1), pp 295-311)
optical systems for large liquid-hydrogen, laser-produced fiducial lines for calibration of, 25:34995 (CONF-700623-(Vol.2), pp 984-96)
optical systems for, development of holographic, 25:34998 (CONF-700623-(Vol.2), pp 1024-38)
particle beam direction in, use of conversion pairs and gamma-quantum spectrum for determining, 22:45332(T) (ANL-Trans-640)
particle direction measurements in, method for determining dispersion of, 21:28260
particle event identification and kinematic analysis in, THRESH and GRIND programs for, 23:9748
particle event identification in propane, 22:8383 (JINR-P1-3595)
particle events in, independent scanning statistics for, 21:16198
particle events in, search statistics in method of double and multiple scan in estimating, 23:43599
particle ionization loss in, semiautomatic television device for measuring, 25:42142
particle kinematic data for, system for real-time processing of, 21:41248
particle kinematic data from, HYBRID-ULTRAN program for plotting one- and two-dimensional distributions of, 21:8576 (DESY-66/29)
particle motion in retarding medium in homogeneous magnetic field, 21:1596
particle track analysis by computer recognition of line patterns, method for, 22:49120
particle track analysis by integral cascade curves in xenon, for measuring gamma energy, 25:42144
particle track analysis facility at Tata Institute of Fundamental Research, description of, 23:18795 (CONF-671217-, pp 589-695)
particle track analysis for hydrogen, design of film scanning table for, 24:27416
particle track analysis in photographs from, on-line use of computer for, 21:4693 (UR-875-167)
particle track analysis in photographs from, use of PDP-8 computer for, 22:12646
particle track analysis in photographs from, use of MP II for, 22:361 (UCRL-17611)
particle track analysis in, ambiguities of one constraint fit events in, 24:5929
particle track analysis in, Brookhaven raster display for, 22:43103
particle track analysis in, coordinate reconstruction of fiducial marks and camera positions for, 23:9747
particle track analysis in, correction for geometrical losses in, 22:23321 (CERN-68-10)
particle track analysis in, methods for taking account of Coulomb scattering and bremsstrahlung in, 21:8577 (JINR-P10-3021)
particle track analysis in, operation of LRL computer-based system for, 25:423 (UCRL-19842)
particle track analysis in, SLAC spiral reader system for, 23:29222 (SLAC-PUB-593)
particle track analysis in, with nonuniform magnetic field, computer program for multi-prong, 23:29221 (SLAC-99)
particle track coordinates in, computer program for magnetic field calculations at, 22:359 (JINR-P11-3512)
particle track data analysis for, design and performance of template for vertex determination for V^0 decays in, 21:19953
particle track data from, computer program for final analysis of, 22:21351 (ORO-2504-116)
particle track data from, integration of flying spot device measurement facility with, 21:41250
particle track data processing for, computerized, 22:12643
particle track data processing for, PEPR program for use with IBM-7044 for, 22:12644
particle track density in propane, measurement of relativistic increase in, 23:45550
particle track distortion in, stress condition of safety glass for determining, 23:29220(T) (NP-tr-1785)
particle track film analysis for, computer-controlled manual system for, 22:23322 (SLAC-81)
particle track film analysis for, development of flying-spot digitizers for, 21:32420
particle track formation by ultrasound in hydrogen, 24:33939
particle track formation in liquid hydrogen, effects of ultrasound on, 24:7649 (JINR-P13-4702)
particle track formation in liquid hydrogen, effects of ultrasonic vibrations on, 24:21016
particle track formation in liquid hydrogen, effects of ultrasound on, 24:14302(T) (SLAC-Trans-110)
particle track formation in liquid hydrogen, effects of ultrasound on, 24:5932
particle track geometrical reconstruction in, description of computer program for, 22:38080(T) (CERN-Trans-67-8)

particle track geometrical reconstruction programs for, program for generating optical parameters for, 21:28211 (ORO-2504-105)
particle track geometry measurements in, use of on-line PDP-5 connected to IBM 360/50 for, 22:360 (PPAD-629-C)
particle track in, CERN on-line film plane digitizers for measurement of, 24:44312 (CERN-70-19)
particle track ionization measurements using television measuring projector, 23:11860
particle track labeling in, method for, 24:13260
particle track matching in, THRESH computer program for, 21:10652
particle track measurement, computerized check on, 21:1576
particle track measurements in, contribution of small angle nuclear scattering to error formulas in, 21:45392
particle track measurements in, stochastic population processes in, 21:8588
particle track pattern recognition in, man—machine cooperation in digital, 21:39177 (BNL-11572)
particle track photography in MURA Freon, efficiency of Scotchlite reflecting material on, 22:12619 (CERN-67-26(Vol.1), pp 263-93)
particle track photography in, effects of thermal turbulence on, 22:12619 (CERN-67-26(Vol.1), pp 263-93)
particle track photography in, effects of turbulent convective motions on optical distortions in, 22:12616 (CERN-67-26(Vol.1), pp 215-28)
particle track photography in, geometrical theory of Scotchlite light reflecting material for, 22:12617 (CERN-67-26(Vol.1), pp 229-42)
particle track photography in, optical sources of distortion in, 22:12615 (CERN-67-26(Vol.1), pp 201-13)
particle track photography in, use of dark field Scotchlite for, 22:12618 (CERN-67-26(Vol.1), pp 243-61)
particle track production from nuclear alpha decay in, S-matrix theory for classical space—time description of straight, 23:39856
particle track reconstruction in, rejection of poorly measured track points in, 21:8578 (JINR-P10-3023)
particle track recording capacity of, using hologram information storage, 24:48323
particle tracks from proton—antiproton interactions at 3.6 GeV/c in, HPD 2 ionization measurements for resolving ambiguities in kinematic analysis of, 23:33510 (ANL-7515, pp 344-52)
particle tracks from π^+ + p interactions at 3.5 GeV/c in, use of television measuring projector for ionization measurements of, 23:33511 (ANL-7515, pp 353-61)
particle tracks in ANL 12-foot, computer program for reconstructing, 25:34948 (CONF-700623-(Vol.1), pp 303-11)
particle tracks in BNL 80 in., scanning table measurements for film analysis, 22:30860 (UCID-2950)
particle tracks in Brookhaven, data terminal network computer system for film analysis of, 22:36103
particle tracks in CERN 81-cm, HPD minimum guidance system for processing of, 23:41057 (CERN-69-18)
particle tracks in deuterium, use of VIDICON on scanning table for determining ionization density of, 23:43595
particle tracks in European 3.7-meter, performance of PEPR system for film analysis of, 25:13240 (CERN-70-21(Vol.1), pp 89-104)
particle tracks in Gargamelle heavy liquid, design of DOLL on-line measurement system for analysis of, 23:2642 (CERN-68-37)
particle tracks in Gargamelle, analysis of, 25:25568 (LAL-1241)
particle tracks in Gargamelle, computer-based scanning and measuring system for analysis of, 25:13271 (CERN-70-21(Vol.2), pp 651-64)
particle tracks in Gargamelle, development of film projector for analyzing, 25:34951 (CONF-700623-(Vol.1), pp 334-44)
particle tracks in Gargamelle, equipment and procedures for film analysis of, 22:12621 (CERN-67-26(Vol.1), pp 313-27)
particle tracks in heavy-liquid, analysis of electron, 25:18784
particle tracks in heavy-liquid, computer program for reconstruction of, 22:49117
particle tracks in heavy-liquid, computer program for analysis of, 25:29369 (ITEF-753)
particle tracks in homogeneous magnetic field in heavy liquid, momentum estimation of electron, 24:36615 (KFKI-70-10-HEP)
particle tracks in hydrogen, analysis of, 25:21433
particle tracks in hydrogen, computer control system for SLAC spiral reader for analysis of, 24:14301 (SLAC-111)
particle tracks in hydrogen, SLAC spiral reader system for, 25:26511
particle tracks in hydrogen, use of delta electron density for identification of, 22:43102
particle tracks in large, ADAM + EVA scanning and measuring machine for analysis of, 25:13270 (CERN-70-21(Vol.2), pp 633-49)
particle tracks in large, geometrical reconstruction program for, 25:13260 (CERN-70-21(Vol.1), pp 467-96)
particle tracks in large, geometry approximations for fitting, 24:23019 (LAL-1227)
particle tracks in liquid hydrogen, computer program for analysis of, 24:27406 (LUSY-6905)
particle tracks in liquid hydrogen, computer program for analysis of, 24:27405 (LUSY-6904)
particle tracks in liquid hydrogen, effect of ultrasound on formation of, 24:36620
particle tracks in liquid-helium, bubble density of, 25:34989 (CONF-700623-(Vol.2), pp 893-900)
particle tracks in Mirabelle, automatic gain control for HPD system for analysis of, 25:13291 (CERN-70-21(Vol.2), pp 941-8)
particle tracks in propane, methods for calculating Coulomb scattering and bremsstrahlung for analysis of, 22:30862
particle tracks in propane, with nonuniform magnetic field, kinematic parameters for artificial, 23:38321
particle tracks in proposed NAL 25-foot, cost estimation for analysis of, 24:50611 (TID-25473(Vol.2), pp 255-69)
particle tracks in proposed NAL 25-foot, simulation of cosmic ray muon, 24:50604 (TID-25473(Vol.2), pp 203-6)
particle tracks in rapid cycle, on-line vidicon scanning system for, 24:48318 (SLAC-PUB-792)
particle tracks in SLAC, photographic techniques for, 22:16907
particle tracks in track-sensitive targets in, computer program for reconstructing, 25:34949 (CONF-700623-(Vol.1), pp 312-24)
particle tracks in, algorithm for calculation of electron and positron, 25:422 (JINR-P1-5357)
particle tracks in, alternate explanation for low-density quark, (E/T), 24:42861
particle tracks in, Ames Lab. on-line system for measurement of, 24:16883 (IS-2231)
particle tracks in, Ames on-line computer control system for measurement of, 24:19237 (IS-2228)
particle tracks in, Amsterdam HPD—CDC 3200 system of analysis of, 25:13275 (CERN-70-21(Vol.2), pp 709-20)
particle tracks in, Amsterdam HPD—CDC 3200 system for film analysis of, 23:33499 (ANL-7515, pp 164-72)
particle tracks in, analysis of search statistics of rare events in, 23:693
particle tracks in, at BNL and Columbia, status of automatic scanning of, 22:38095
particle tracks in, automatic gain control in signal processing for picture analysis of, 25:13257 (CERN-70-21(Vol.1), pp 383-97)
particle tracks in, automatic measurement of, 24:29575
particle tracks in, automatic measurement of, 25:55047
particle tracks in, automatic system for measuring, 25:21428
particle tracks in, automatic track following system for photographic analysis of, 21:22131 (NYO-2171-222)
particle tracks in, book on analysis of, 21:26205
particle tracks in, BRAVE computer program for analysis of, 21:12637 (ORO-2504-99)
particle tracks in, Brookhaven real-time flying spot device program for film analysis of, 21:41251
particle tracks in, BRUSH system for automatic processing of, 25:13274 (CERN-70-21(Vol.2), pp 689-707)
particle tracks in, BRUSH system for on-line HPD data processing, track recognition, and track following in film analysis of, 23:33493 (ANL-7515, pp 48-62)
particle tracks in, BRUSH system for on-line HPD data processing, track recognition, and track following in film analysis of, 23:33494 (ANL-7515, pp 63-80)
particle tracks in, calibration and performance of CERN spiral reader for analysis of, 25:13235 (CERN-70-21(Vol.1), pp 5-18)
particle tracks in, calibration of image plane digitizers for measuring, 25:51895 (RHEL/R-223)
particle tracks in, CERN HPD 2 system for film analysis of, 23:33497 (ANL-7515, pp 130-9)
particle tracks in, CERN track-match program for vertex guidance in film analysis of, 23:33519 (ANL-7515, pp 431-43)
particle tracks in, CHLOE film digitizing system for analysis of, 21:34466 (CONF-660527-, pp 177-85)
particle tracks in, circuits for fast analysis of, 21:16137 (INFN/TC-66/7)
particle tracks in, CNAF FSD—IBM 360/44 system for film analysis of, 23:33498 (ANL-7515, pp 140-63)
particle tracks in, Cobweb computer-based data reduction system for film analysis of, 23:9743 (UCRL-18528(Rev.))
particle tracks in, Cobweb data reduction system for film, analysis of, 23:33500 (ANL-7515, pp 173-83)
particle tracks in, COBWEB-IBM 7044/on-line film measuring machines for analysis of, 21:24196 (UCRL-17136)
particle tracks in, Coccinelle CRT digitizer for analysis of, 25:13256 (CERN-70-21(Vol.1), pp 371-81)
particle tracks in, Coccinelle system for automatic pattern recognition and event measurement in film analysis of, 23:33492 (ANL-7515, pp 6-21)
particle tracks in, Coccinelle system for automatic film analysis of, 23:47836
particle tracks in, comparison of various methods for ionization measurements of, 23:33515 (ANL-7515, pp 396-7)
particle tracks in, computer evaluation of data from digitized microscopes on, 21:36369
particle tracks in, computer graphics patching of HPD failed events in analysis of, 24:25300 (RHEL/R-190)
particle tracks in, computer processing of data from scanning/measuring machines for film analysis of, 23:2643 (COO-1195-147)
particle tracks in, computer program for acquisition of film information by PEPR system for analysis of, 25:13242 (CERN-70-21(Vol.1), pp 113-24)
particle tracks in, computer program for analysis of, 25:4372 (SJC-T-70-3)
particle tracks in, computer program for automatic recognition and reconstruction of events for analysis of, 25:13243 (CERN-70-21(Vol.1), pp 125-39)
particle tracks in, computer program for automatic recognition, space reconstruction, and topological interpretation of, 25:49014
particle tracks in, computer program for automatic recognition and reconstruction of events for analysis of, 25:13244 (CERN-70-21(Vol.1), pp 141-75)
particle tracks in, computer program for calibration of PEPR system for analysis of, 25:13245 (CERN-70-21(Vol.1), pp 177-86)
particle tracks in, computer program for control and analysis of film measurements of, 24:21015 (IS-2230)
particle tracks in, computer program for control of scanning equipment for, 25:51890 (IFVE-SPK-70-61)
particle tracks in, computer program for geometrical reconstruction of, 22:49113(T) (ANL-Trans-668)
particle tracks in, computer program for HPD analysis of, 24:23020 (RHEL/R-189)
particle tracks in, computer program for microscope system for analysis of, 25:4369 (IFVE-SPK-69-53)
particle tracks in, computer program for scanning data tapes for analysis of, 23:11850 (UCRL-18546)
particle tracks in, computer program for simulating, 22:30858 (UCID-2753)
particle tracks in, computer program for simulation of, 21:28203 (CERN-67-10)
particle tracks in, computer program for vertex finding and track matching for analysis of,, 23:9744 (UCRL-18544)
particle tracks in, computer-aided measuring projector for analysis of, 25:48993 (SJC-T-70-4)
particle tracks in, computer-based control system for measurement of, 23:50168 (NP-17995)
particle tracks in, computer-based HPD system for analysis of, 25:13276 (CERN-70-21(Vol.2), pp 721-7)
particle tracks in, computer-based system at Munich for analysis of, 25:13287 (CERN-70-21(Vol.2), pp 907-9)
particle tracks in, computer-based system for film analysis of, 22:19153
particle tracks in, conference on data handling systems for analysis of, 25:13234 (CERN-70-21(Vol.1))
particle tracks in, conference on data handling systems for analysis of, 25:13263 (CERN-70-21(Vol.2))
particle tracks in, conference on flying spot devices for film analysis of, 21:41237
particle tracks in, conference on PEPR system for film analysis of, 23:16149 (CONF-680628)
particle tracks in, conference on PEPR systems for analysis of, 25:6560 (MIT-2098-660)
particle tracks in, control program for Ames on-line measuring system for, 24:19238 (IS-2229)
particle tracks in, counter computer for on-line recognition of, 24:11843
particle tracks in, covariant matrix for measuring, 25:44682 (IFVE-SPK/SVM-70-53)
particle tracks in, DAPR system at LRL for analysis of, 25:8548 (UCRL-20126)
particle tracks in, DAPR system for film analysis of, 23:33506 (ANL-7515, pp 275-98)
particle tracks in, dependence on cross section of incident particle interactions with free nucleon for high-energy, 23:45544 (JINR-P2-4521)
particle tracks in, description and performance of CERN spiral reader for analysis of, 25:13236 (CERN-70-21(Vol.1), pp 19-36)
particle tracks in, description of 7-in. CRT PEPR system at Nijmegen for film analysis of, 23:16155 (CONF-680628-, pp 119-25)
particle tracks in, description of CERN HPD road guidance system for film analysis of, 21:41252
particle tracks in, description of FSD—IBM 7094 system for film analysis of, 21:41259
particle tracks in, description of HPD programs at Saclay for film analysis of, 21:41257
particle tracks in, description of Hummingbird automatic film digitizer for analyzing, 22:28165 (SLAC-82)
particle tracks in, description of on-line IEP and SMP film scanning and measuring systems for analysis of, 21:41244
particle tracks in, description of PATR system at Princeton for film analysis of, 23:16156 (CONF-680628-, pp 126-32)
particle tracks in, description of PEPR for film scanning and measuring of, 22:38092
particle tracks in, description of POLLY 1 operator-assisted computer-based system for film analysis of, 23:16154 (CONF-680628-, pp 72-103)
particle tracks in, design and performance of HPD Mark 2 flying-spot digitizer for film analysis of, 22:23320 (CERN-68-4)
particle tracks in, design and performance of photographic film projector for analysis of, 21:19918
particle tracks in, design characteristics of spiral reader for film analysis of, 23:11849 (SLAC-PUB-529)
particle tracks in, design of computer-controlled precision film scanner for analysis of, 21:17827
particle tracks in, design of computer-controlled photographic film projector for analysis of, 21:19925
particle tracks in, design of digitized spiral reader for film analysis of, 23:47835
particle tracks in, design of fast digitizer for automatic film analysis of, 22:36101
particle tracks in, design of film advance system for spiral reader for analysis of, 23:47827
particle tracks in, design of Munich HPD system for film analysis of, 21:41262
particle tracks in, design of pattern recognition system UCPRI for analysis of, 21:28232
particle tracks in, design of photographic film projector for measuring density of, 21:19919
particle tracks in, design of photographic film scanning and measuring table for analysis of, 21:19920
particle tracks in, design of POLLY for film analysis of, 21:41265
particle tracks in, design of scanning projector for film analysis of, 23:2650
particle tracks in, design of scanning table for film analysis of, 23:2649
particle tracks in, design of scanning table for film analysis of, 23:2648
particle tracks in, design of signal matching circuits for flying spot digitizers for analysis of, 21:30728(P)
particle tracks in, design of system for digitizing, 21:26155 (SLAC-PUB-300)

particle tracks in, design of video signal digitizer for film analysis of, 23:7912(P)
particle tracks in, detectors for automatic film stop devices for analysis of, 21:22126 (CERN-66-36)
particle tracks in, development of automatic scanner at Columbia University for film analysis of, 21:41270
particle tracks in, development of cathode-ray tubes and associated coils for film analysis of, 23:16157 (CONF-680628-, pp 133-40)
particle tracks in, development of computer programs for analysis of, 21:44275(R) (ORO-2504-107)
particle tracks in, development of DAPR for automatic film analysis of, 22:38094
particle tracks in, development of DAPR HPD system for automatic film analysis of, 23:45545 (UCRL-19210)
particle tracks in, development of data processing systems at JINR for analysis of, 25:13279 (CERN-70-21(Vol.2), pp 753-60)
particle tracks in, development of equipment and methods for analysis of, 23:33528
particle tracks in, development of film scanning and measuring center for analysis of, 21:39201
particle tracks in, development of holography system for recording, 25:432
particle tracks in, development of HPD minimum guidance program for film analysis of, 21:41267
particle tracks in, development of light spot device for film analysis, 21:45429(P)
particle tracks in, development of PEPR at Nijmegen Univ. for analysis of, 25:6562 (MIT-2098-660, pp 27-34)
particle tracks in, development of PEPR for analyzing, 22:30856 (MIT-2098-422, pp 10-12)
particle tracks in, development of PEPR systems at Oxford for analysis of, 25:6573 (MIT-2098-660, pp 250-73)
particle tracks in, development of RIPPLE semiautomatic device for analysis of, 22:47371(R) (ORO-3065-16)
particle tracks in, development of Stereo Analogue Track Recognition machine for film analysis of, 21:41269
particle tracks in, development of system in East Germany for analysis of, 25:13272 (CERN-70-21(Vol.2), pp 665-73)
particle tracks in, development of systems for analysis of, 25:37647
particle tracks in, device for measuring gap lengths of, 21:16122 (CONF-660918-, pp 151-2)
particle tracks in, digital automatic pattern recognition system for analysis of, 21:36354 (UCRL-17589)
particle tracks in, digitally controlled fast film transport system for automatic measuring machines for analyzing, 25:49008
particle tracks in, digitized co-ordinate recording device for microscope for analysis of, 24:44320
particle tracks in, digitized microscope for analysis of, 25:13284 (CERN-70-21(Vol.2), pp 851-7)
particle tracks in, digitized microscope for measuring bubble density of, 21:17844
particle tracks in, digitizers and CRT film scanners for analyzing, 21:32372 (RHEL/R-129, pp 79-95)
particle tracks in, display control of CRT-film scanning system for analysis of, 21:26154 (SLAC-PUB-299)
particle tracks in, distribution function for Coulomb multiple scattering effects for analysis of, 25:8559
particle tracks in, DOLLY film measuring system for analyses of, 24:41691 (COO-1195-192)
particle tracks in, DOLLY scanning system for analysis of, 23:11847 (COO-1195-154)
particle tracks in, double precision version of TVGP program for reconstruction of high momentum, 24:44315 (UR-875-315)
particle tracks in, effects of multiple scattering on film analysis of, 22:363
particle tracks in, efficiencies of film scanners for analyzing, 23:22093
particle tracks in, efficiency of phase holograms for analysis of, 21:45406
particle tracks in, electronic equipment for Spiral Reader system for film analysis of, 23:22096
particle tracks in, electronic specifications of Spiral Reader MP-IIB system for film analysis of, 22:30859 (UCID-2842)
particle tracks in, equations for orientation errors in PEPR scanner for measuring, 25:44689
particle tracks in, equipment for automatic film analysis of, 24:39359(P)
particle tracks in, errors in estimation of total events in analysis of, 24:48324
particle tracks in, evaluation of Image-Plane Digitizers for film analysis of, 22:4476 (UR-875-219)
particle tracks in, event selection criteria for analysis of, 22:49121
particle tracks in, facility for film analysis of, 25:35062
particle tracks in, fast precision digitizers on-line to computers for measuring and scanning photographic film for analysis of, book on, 21:30729
particle tracks in, film analysis of, 22:43099
particle tracks in, film density—particle momentum relations for analysis of, 24:19239
particle tracks in, film measuring systems at JINR for analysis of, 23:33523 (ANL-7515, pp 477-80)
particle tracks in, film scanning and measuring system for analysis of, 21:18911
particle tracks in, filtering method for analysis of, 24:16889
particle tracks in, filtering of data from flying spot device prior to IBM 7094 film analysis of, 21:41261
particle tracks in, flying image digitizer for analysis of, 24:25303(P)
particle tracks in, flying spot digitizer bubble density measurements for analysis of, 23:9742 (BNL-13012)
particle tracks in, gain stabilization in photomultipliers of HPD system for film analysis of, 23:47829
particle tracks in, geometry reconstruction program for filtering HPD data for analysis of, 25:13273 (CERN-70-21(Vol.2), pp 679-85)
particle tracks in, global method of fiducial recognition with fish-eye lenses for analysis of, 25:13261 (CERN-70-21(Vol.1), pp 497-503)
particle tracks in, glossary of on-line measuring devices for analysis of, 25:13294 (CERN-70-21(Vol.2), pp 963-77)
particle tracks in, grid guidance program for PEPR film scanner for analysis of, 25:13247 (CERN-70-21(Vol.1), pp 199-211)
particle tracks in, GRIND computer program for analysis of, 24:36624
particle tracks in, high-speed flying image digitizer for film analysis of, 22:40459 (BNL-12679)
particle tracks in, high-speed magnetic-chip memory in scanning robot for measurement of, 25:18780
particle tracks in, HPD digitizer for coding, 25:44681 (IFVE-SPK/OPI-70-56)
particle tracks in, HPD Minimum Guidance programs for analysis of, 25:13278 (CERN-70-21(Vol.2), pp 737-52)
particle tracks in, HPD performance under control of small computer in film analysis of, 21:41256
particle tracks in, HPD system at Birmingham for analysis of, 25:13292 (CERN-70-21(Vol.2), pp 949-52)
particle tracks in, HPD system at Columbia Univ. for analysis of, 25:13253 (CERN-70-21(Vol.1), pp 311-21)
particle tracks in, HPD system for automatic film analysis of, 23:43602
particle tracks in, HPD—IBM 360/44 system at Bologna for analysis of, 25:13267 (CERN-70-21(Vol.2), pp 607-15)
particle tracks in, HPD—IBM 360/44 system at Bologna for analysis of, 25:13269 (CERN-70-21(Vol.2), pp 625-30)
particle tracks in, HPD—IBM 360/44 system at Bologna for analysis of, 25:13268 (CERN-70-21(Vol.2), pp 617-24)
particle tracks in, Hummingbird film digitizers for analysis of, 24:33935 (SLAC-PUB-752)
particle tracks in, Hummingbird I scanning system for analysis of, 21:14439 (SLAC-PUB-255)
particle tracks in, IBM data management system for analysis of, 25:13277 (CERN-70-21(Vol.2), pp 729-34)
particle tracks in, image plane digitizers for analysis of, 21:16131 (CONF-660918-, pp 336-7)
particle tracks in, improvement of Spiral Reader for film analysis of, 21:41263
particle tracks in, in-line Fraunhofer holography for recording, 25:434
particle tracks in, instrument for measurement of ionization of, 25:57825 (RPP/H-81)
particle tracks in, ionization data from Spiral Reader for, 23:33514 (ANL-7515, pp 395)
particle tracks in, KONRAD automatic scanning and measuring system for analysis of, 21:16132 (CONF-660918-, pp 338-54)
particle tracks in, laser illumination system for HPD for measurement of, 25:26509 (RHEL/R-212)
particle tracks in, laser ranging device for film analysis of, 24:48347(P)
particle tracks in, least squares and maximum probability methods for determining kinematic parameters of, 25:8558
particle tracks in, logic coupling of computers and photographic film projectors for analysis of, 21:19917
particle tracks in, LUCY CRT system for analysis of, 25:13259 (CERN-70-21(Vol.1), pp 427-65)
particle tracks in, manual measurement of films by scanning with laser beams for analysis of, 25:49012
particle tracks in, MATCH program for reconstruction of, 25:6575 (MIT-2098-660, pp 383-402)
particle tracks in, match tests and device requirements for analyzing system for, 25:6557(T) (CERN-Trans-70-8)
particle tracks in, matrix methods for geometrical reconstruction of, 25:51899
particle tracks in, measurement of ionization density of, 24:44319
particle tracks in, measurements and evaluation of, 21:28220
particle tracks in, measuring projector for analysis of, 24:27409 (SJC-T-69-3)
particle tracks in, mechanical equipment for Spiral Reader for film analysis of, 23:26573
particle tracks in, method for analysis of, 21:12680(P)
particle tracks in, method for analysis of, 25:13233 (CEA-N-1397)
particle tracks in, method for determining neutral decay points in analysis of, 24:29566 (KFKI-70-8-HEP)
particle tracks in, method for estimating kinematic parameters of, 21:16175
particle tracks in, method for identifying, 21:16200
particle tracks in, method for iterative fitting of events involving neutral particles in analysis of, 22:49115 (IS-T-265)
particle tracks in, method for reconstruction of momentum vector from direct coincidence of trajectory projection, 24:7652
particle tracks in, method for statistical analysis of data on, 22:370
particle tracks in, methods for film analysis of, 23:29228
particle tracks in, methods for minimizing angle errors due to multiple scattering in reconstruction of, 25:34950 (CONF-700623-(Vol.1), pp 325-33)
particle tracks in, minimum guidance program at Univ. of Pennsylvania for film analysis of, 23:33516 (ANL-7515, pp 401-11)
particle tracks in, modifications to RHEL geometrical reconstruction programs for analysis of, 22:16903 (RHEL/R-150)
particle tracks in, modified PEPR-type machine for film analysis of, 22:4475 (PPAD-628-E)
particle tracks in, new HPD filtering technique for film analysis of, 21:41254
particle tracks in, off-line filtering of HPD data for film analysis of, 23:47830
particle tracks in, on-line CDC 8090 computer system for analysis of, 25:18776 (USIP-70-3)
particle tracks in, on-line computer system in Sweden for analysis of, 25:13282 (CERN-70-21(Vol.2), pp 825-30)
particle tracks in, on-line film plane digitizer for analysis of, 25:13237 (CERN-70-21(Vol.1), pp 39-46)
particle tracks in, on-line IBM 1130 cmputer system in Italy for analysis of, 25:13288 (CERN-70-21(Vol.2), pp 911-20)
particle tracks in, on-line storage display system for film analysis of, 25:49009
particle tracks in, operation and performance of HPD system for film analysis of, 23:47832
particle tracks in, operation of Hough Powell device and CRT film scanner for, 21:33811 (RHEL/R-144, pp 61-71)
particle tracks in, operation of SMP film scanning and measuring system for analysis of, 21:41247
particle tracks in, operation of SMP for film analysis of, 22:22332(R) (UH-511-23)
particle tracks in, operator intervention in HPD system for analysis of, 25:13290 (CERN-70-21(Vol.2), pp 931-40)
particle tracks in, optical system for scanning, 23:9749(P)
particle tracks in, optimum lengths for, 25:34940 (CONF-700623-(Vol.1), pp 42-55)
particle tracks in, PANGLOSS CRT device for analysis of, 25:13258 (CERN-70-21(Vol.1), pp 401-25)
particle tracks in, pattern recognition method for film analysis of, 21:34470 (NP-16781, 49-54)
particle tracks in, pattern recognition of four-prong events in HPD film analysis of, 23:33517 (ANL-7515, pp 412-20)
particle tracks in, pattern recognition with line elements for film analysis of, 23:33521 (ANL-7515, pp 444-53)
particle tracks in, PEPR (Precision Encoding and Pattern Recognition) system for film analysis of, 22:33663
particle tracks in, PEPR ionization measurement of, 23:33512 (ANL-7515, pp 382-9)
particle tracks in, PEPR system at Heidelberg for analysis of, 25:13241 (CERN-70-21(Vol.1), pp 105-11)
particle tracks in, PEPR system at Heidelberg Univ. for analysis of, 25:6563 (MIT-2098-660, pp 37-75)
particle tracks in, PEPR system at Johns Hopkins Univ. for analysis of, 25:6566 (MIT-2098-660, pp 92-106)
particle tracks in, PEPR system at Maryland Univ. for analysis of, 25:6565 (MIT-2098-660, pp 85-90)
particle tracks in, PEPR system at MIT for analysis of, 25:6570 (MIT-2098-660, pp 175-90)
particle tracks in, PEPR system at Rutgers Univ. for analysis of, 25:6567 (MIT-2098-660, pp 107-12)
particle tracks in, PEPR system at Washington Univ. for analysis of, 25:6568 (MIT-2098-660, pp 114-62)
particle tracks in, PEPR system for analysis of, 21:16129 (CONF-660918-, pp 299-311)
particle tracks in, PEPR systems at Indiana Univ. for analysis of, 25:6564 (MIT-2098-660, pp 76-84)
particle tracks in, PEPR track following system for analysis of, 22:47376
particle tracks in, performance of cameras for photography of, 21:16167
particle tracks in, performance of DAPR system for analysis of, 25:13280 (CERN-70-21(Vol.2), pp 761-804)
particle tracks in, performance of flying spot digitizers for film analysis of, 23:14032 (BNL-13189)
particle tracks in, performance of Glascow SMP film scanning and measuring system for analysis of, 21:41246
particle tracks in, performance of HPD 2 flying spot digitizer for measurement of, 25:42153
particle tracks in, performance of Oxford PEPR system for analysis of, 25:13239 (CERN-70-21(Vol.1), pp 61-88)
particle tracks in, performance of PEPR system at Oxford for analysis of, 25:6572 (MIT-2098-660, pp 222-49)
particle tracks in, performance of PEPR system for measurement of, 24:7679 (CONF-690301-, pp 454-65)
particle tracks in, performance of POLLY II for automatic scanning and measurement of, 24:39352
particle tracks in, performance of Purdue on-line SMP measuring system for, 24:44313 (COO-1428-209)
particle tracks in, performance of reverse-developed film measured on HPD for analysis of, 25:13286 (CERN-70-21(Vol.2), pp 879-905)
particle tracks in, performance of SLAC spiral reader for analysis of, 24:39350 (SLAC-PUB-765)
particle tracks in, performance of Spiral Reader for analysis of, 21:28215 (UCRL-17328)
particle tracks in, performance of Sweepnik I for analysis of, 25:13252 (CERN-70-21(Vol.1), pp 293-308)
particle tracks in, philosophy of three-view PEPR system for analysis of, 25:6576 (MIT-2098-660, pp 403-11)
particle tracks in, photograph scanning and measuring system for analysis of, 21:19916
particle tracks in, photographic experiments from simulation of, 22:12647
particle tracks in, photographic reproduction of, 23:2645(P)
particle tracks in, picture description language for computer film analysis of, 22:10595 (SLAC-PUB-358)
particle tracks in, POLLY automatic film scanning system for analysis of, 21:34466 (CONF-660527-, pp 177-85)
particle tracks in, POLLY I film measuring system for analysis of, 22:47381
particle tracks in, POLLY II for automatic scanning and measurement of, 25:6571 (MIT-2098-660, pp 191-220)
particle tracks in, POLLY II system for automatic scanning and measurement of, 25:13254 (CERN-70-21(Vol.1), pp 325-55)
particle tracks in, POLLY system at Glasgow Univ. for analysis of, 25:13255 (CERN-70-21(Vol.1), pp 357-70)
particle tracks in, POLLY system for ionization measurement of, 23:33513 (ANL-7515, pp 390-4)
particle tracks in, position control servo system for projection microscope for analysis of, 24:39354

particle tracks in, Princeton Automatic Track Reader for analysis of, 25:13250 (CERN-70-21(Vol.1), pp 273-83)
particle tracks in, processing of video signals from spiral reader in film analysis of, 23:47837
particle tracks in, program control of data link between computers and projectors for analysis of, 21:19896 (JINR-P10-3172)
particle tracks in, program for determining coordinates of, 22:4472 (JINR-P1-3487)
particle tracks in, program for linking FSD microscopes with Minsk-2 computer for analysis of, 25:29379
particle tracks in, programming automatic scanner for ILLIAC III for film analysis of, 21:41268
particle tracks in, programming system of Paris off-line HPD for film analysis of, 21:41253
particle tracks in, programs for calibrating and testing FSD system for film analysis of, 21:41260
particle tracks in, pulse shaping devices for measuring, 25:44680 (IFVE-SPK-70-59)
particle tracks in, relativistic increase and plateau in density of, 21:24197
particle tracks in, relativistic rise in bubble density of, 21:16120 (CONF-660918-, pp 140-4)
particle tracks in, results of FSD—IBM 7094 film analysis of, 21:41258
particle tracks in, review of data processing systems for film analysis of, 21:45373 (UCRL-17635)
particle tracks in, review of methods for analysis of, 21:34467 (CONF-660527-, pp 195-209)
particle tracks in, review of systems for automatic, 25:57827
particle tracks in, review on measuring devices for analysis of, 25:8554
particle tracks in, review on role of computers in analysis of, 25:37646
particle tracks in, RIPPLE system for automatic analysis of, 25:6574 (MIT-2098-660, pp 347-66)
particle tracks in, role of human guidance in computer-based systems for film analysis of, 23:11845 (BNL-13060)
particle tracks in, SATR automatic scanning and measuring system for analysis of, 21:16130 (CONF-660918-, pp 312-26)
particle tracks in, SATR system at Wisconsin Univ. for analysis of, 25:13262 (CERN-70-21(Vol.1), pp 505)
particle tracks in, SATR system for three-dimensional film analysis, 23:33496 (ANL-7515, pp 102-19)
particle tracks in, SATR system for three-dimensional film analysis of, 23:33495 (ANL-7515, pp 81-101)
particle tracks in, scanning and measurement system operating on-line to computer for film analysis of, 22:10604(P)
particle tracks in, scanning and measurement systems operating on-line to Univac 418 computer for film analysis of, 23:47833
particle tracks in, scanning and measuring systems operating on-line to IBM 1800 computer for film analysis of, 23:47834
particle tracks in, scanning efficiency for analysis of, 23:7793
particle tracks in, scanning selection system for film analysis of, 23:11851
particle tracks in, scanning—measuring table for analysis of, 24:44314 (IFVE-SEF-69-32)
particle tracks in, searching for kinks and determining parameters for scattering, 25:18773 (JINR-P1-5540)
particle tracks in, selection of laser source for holography system for recording, 25:433
particle tracks in, seminar on development of automatic systems for measurement of, 24:2492 (RHEL/R-183)
particle tracks in, shape of projected image in, (E), 21:4742
particle tracks in, simplification of premeasurements for use of HPD system for film analysis of, 23:47828
particle tracks in, SMP system at UCLA for analysis of, 25:13249 (CERN-70-21(Vol.1), pp 243-60)
particle tracks in, software system for on-line scanning and measuring in film analysis of, 23:43594
particle tracks in, SPASM scanning and measuring system for analysis of, 23:17798 (HUX-2752-39)
particle tracks in, spatial reconstruction of track parameters with differential geometry in film analysis of, 23:33522 (ANL-7515, pp 462-7)
particle tracks in, spiral reader system at Weizmann Institute for analysis of, 25:13293 (CERN-70-21(Vol.2), pp 953-62)
particle tracks in, SQUAW and TVGP computer programs for analysis of, 21:12638 (ORO-2504-100 and Suppl.)
particle tracks in, status and future development of PEPR system at Oxford for film analysis of, 23:16152 (CONF-680628-, pp 46-58)
particle tracks in, status of CERN—RHEL minimum guidance system for film analysis of, 23:33518 (ANL-7515, pp 421-30)
particle tracks in, status of HPD systems at CERN for analysis of, 25:13281 (CERN-70-21(Vol.2), pp 813-24)
particle tracks in, status of PEPR Point Guidance System for film analysis of, 21:41264
particle tracks in, status of PEPR system at Heidelberg for analysis of, 25:13246 (CERN-70-21(Vol.1), pp 187-96)
particle tracks in, status of PEPR system at MIT for analysis of, 25:13248 (CERN-70-21(Vol.1), pp 233-42)
particle tracks in, status of PEPR system at MIT for film analysis of, 23:16150 (CONF-680628-, pp 5-18)
particle tracks in, status of PEPR system at Nijmegen for film analysis of, 23:16153 (CONF-680628-, pp 59-71)
particle tracks in, status of PEPR system at Yale for film analysis of, 23:16151 (CONF-680628, pp 19-45)
particle tracks in, status of Yale PEPR for analysis of, 25:6561 (MIT-2098-660, pp 9-26)
particle tracks in, Sweepnik II for analysis of, 25:13251 (CERN-70-21(Vol.1), pp 285-92)
particle tracks in, Sweepnik semiautomatic measuring machine for analysis of, 24:33936
particle tracks in, system employing high accuracy image plane digitizers for film analysis of, 23:31550
particle tracks in, tangent method for calculating event parameters in film analysis of, 23:33520 (ANL-7515, pp 454-61)
particle tracks in, television measuring projector for film analysis of, 22:10598
particle tracks in, testing program for generation of fictitious tracks in geometrical reconstruction of, 22:4473 (JINR-P10-3526)
particle tracks in, time-sharing aspects of SMP scanning and measuring projector for analysis of, 21:41245
particle tracks in, tracks finding, following, and event recognition on POLLY for film analysis of, 23:33503 (ANL-7515, pp 244-55)
particle tracks in, use of CDC 160A computer for analysis of, 22:16906
particle tracks in, use of computer controlled electronic gates in film analysis of, 21:41255
particle tracks in, use of computer for matching photographs for analysis of, 22:358 (ANL-7346)
particle tracks in, use of computers in flying spot digitizer data processing systems for analysis of, 21:41249
particle tracks in, use of HPD bubble chamber film digitizing system for measuring branching ratios in K_2^0 decay, 23:33505 (ANL-7515, pp 266-74)
particle tracks in, use of in-line Fraunhofer hologram method for photographing, 21:14445
particle tracks in, use of in-line Fraunhofer holographic technique for analysis of, 23:31548
particle tracks in, use of interactive graphical console in POLLY system for film analysis of, 21:41266
particle tracks in, use of on-line computers for automating analysis of, 21:16250
particle tracks in, velocity analysis of, 21:16159
particle tracks in, video assisted scan table for analysis of, 25:13238 (CERN-70-21(Vol.1), pp 47-58)
particle tracks in, vidicon device for ionization measurements of, 25:10878
particle tracks in, vidicon system for film analysis of, 22:4474 (ORO-2504-110)
performance for strong interaction studies, 24:50613 (TID-25473(Vol.2), pp 277-8)
performance in 7.7 MeV-electron distribution determinations in biological materials, 25:18995
performance of bromotrifluoromethane, 24:27417
performance of large-dimension and high-magnetic-field, 24:4487
performance of proposed 25-foot, for neutrino reactions, 24:50594 (TID-25473(Vol.2), pp 91-5)
performance of proposed 25-foot, for simulated $\pi^- + p \rightarrow \pi^- + p + \pi^+ + \pi^- + X$ and $K^+ + p \rightarrow p + K^+ + \pi^+ + \pi^-$ interactions at 50 GeV/c, 24:50591 (TID-25473(Vol.2), pp 69-81)
performance of proposed 25-foot, for study of hadron production in $\gamma + p$ interactions at 5 to 150 GeV, 24:50592 (TID-25473(Vol.2), pp 83-7)
performance of proposed 25-foot, for study of inelastic $\mu^+ + p$ interactions at 100 to 200 GeV, 24:50593 (TID-25473(Vol.2), pp 89-90)
performance of proposed 25-foot, for study of strong interactions, 24:50588 (TID-25473(Vol.2), pp 5-31)
performance of proposed 25-foot, for study of strong interactions, 24:50587 (TID-25473(Vol.2), pp 1-3)
performance of proposed 25-foot, for study of total and inelastic cross sections and Adler test for $\nu + N$ interactions at 5 to 100 GeV, 24:50595 (TID-25473(Vol.2), pp 97-107)
performance of Saclay 82-cm, 22:1531(R) (RHEL/R-151)
performance of xenon, γ energy determination accuracy for, 21:30695 (JINR-P1-3317)
performance testing of Mirabelle, 25:34979 (CONF-700623-(Vol.2), pp 751-64)
photograph analysis for, use of HPD digitizing system for, 21:1573(T) (NP-tr-1413)
photograph scanning table for, development of, 21:6192 (CEA-R-3045)
photographic film analysis for, design of mechanical flying spot digitizer for automatic, 21:6190 (BNL-9721)
photographic film analysis for, design of projector for, 21:8575 (CEA-R-3046)
photographic film scanning and measuring projector for, 21:6194 (COO-1195-81)
photographic system for ANL 12-ft hydrogen, 22:12637 (CERN-67-26(Vol.2), pp 493-500)
photographic system for, development of Fraunhofer holography, 22:38091
photographic system for, development of six-lens stereo-, 21:22147
photographic system of 1-meter, 23:38315
photography in, counter control of, 25:34969 (CONF-700623-(Vol.2), pp 606-16)
photography system for, counter control of, 25:6569 (MIT-2098-660, pp 163-73)
photography system for, design of, 22:30864
photon energy measurement at 40 to 4000 MeV in xenon, calibration curves for, (T), 21:32370 (JINR-P1-3349)
photon sources for interactions in SLAC 82-in. hydrogen, backscattering of laser beams from electron beams for producing polarized, 23:28201
physics of, 22:3559(R) (LAL-1176)
pressure changing mechanism of 300-liter, 23:9738
pressure gages for hydrogen, calibration of quartz piezoelectric transducers used as, 22:40460 (DESY-68/30)
pressure gaskets for 2-m liquid hydrogen, flat membrane inflatable, 22:12635 (CERN-67-26(Vol.2), pp 479-84)
pressure in 85 cm hydrogen, calibration of piezoelectric quartz transducers for measuring, 23:2726
pressure in rapid-cycling, effects of parasitic boiling and expansion speed on dynamic, 25:34957 (CONF-700623-(Vol.1), pp 424-48)
pressure measurement in BEBC, effects of high magnetic fields and low temperatures on gages and transducers for, 25:34987 (CONF-700623-(Vol.2), pp 863-72)
proton energy ranges in, analytical formulas for calculating, 22:30865
quantameter for measurement of energies of mesons (π^0) produced in NAL 15-foot, design of lead-plate proportional, 25:34942 (CONF-700623-(Vol.1), pp 97-116)
refraction in deuterium, $\pi^+ \rightarrow \mu^+ + \nu$ decay for index of, (E), 22:32047 (UCID-3162)
refractive indices of liquid propane in, at 17.4 to 65.8°C and 7.6 to 23.4 atm pressure, 22:16909
refrigeration system for BNL 80-inch liquid hydrogen, 21:34480
refrigeration system for Mirabelle, design of, 25:34979 (CONF-700623-(Vol.2), pp 751-64)
research, 22:15659 (BNL-50057, pp 3-36)
research activities in nuclear energy, 1967 summary of, 23:4460 (NP-17597, pp 7-39)
research at Lawrence Radiation Laboratory, review of, 23:21063 (UCRL-18619)
research in, CERN progress report for 1966 on, 21:31659(R) (NP-16811)
research program at Gargamelle, proposed, 25:34944 (CONF-700623-(Vol.1), pp 136-44)
resolution for detection of photons at <1 GeV/c, 25:34964 (CONF-700623-(Vol.1), pp 555-66)
resolution of 1- to 2-meter, Monte Carlo study of, 25:8549 (UR-875-324)
safety facilities for, hydrogen gas detection, 21:37955 (BNL-11620)
safety features of Gargamelle, 25:35003 (CONF-700623-(Vol.2), App.I)
safety report on NAL 15-foot hydrogen, 25:13298 (NAL-48-2624)
sealing devices for, 24:39360(P)
shielding and detector system for proposed NAL 25-foot, for meson (μ) detection, 24:50605 (TID-25473(Vol.2), pp 207-11)
shielding for proposed NAL 25-foot, cosmic ray, 24:50602 (TID-25473(Vol.2), pp 189-95)
target for 40-inch SLAC, design and development of 4-inch hydrogen track-sensitive, 25:34965 (CONF-700623-(Vol.1), pp 567-80)
targets for BNL, development of track-sensitive, 25:34961 (CONF-700623-(Vol.1), pp 511-31)
targets for neon—hydrogen, operation of track-sensitive deuterium, 23:20002
targets for proposed NAL 25-foot, track-sensitive, 24:50608 (TID-25473(Vol.2), pp 229-37)
targets for proposed NAL 25-foot, track-sensitive, 24:50609 (TID-25473(Vol.2), pp 239-48)
targets for proposed NAL 25-foot, track-sensitive, 24:50610 (TID-25473(Vol.2), pp 249-54)
targets in neon—hydrogen mixtures for, design of track-sensitive hydrogen and deuterium, 25:34960 (CONF-700623-(Vol.1), pp 477-510)
temperature control and heat exchange system for ITEP 2-meter hydrogen, 25:29376
temperature control system for 2-meter liquid hydrogen, 25:421 (ITEF-734)
temperature measurements in CERN heavy liquid, 22:12630 (CERN-67-26(Vol.2), pp 413-24)
testing of 1-m model of BEBC, result from optics, 25:34983 (CONF-700623-(Vol.2), pp 813-23)
testing of 1-m model of BEBC, results from thermodynamics, 25:34982 (CONF-700623-(Vol.2), pp 790-812)
time base pulse generator for, 10-kHz, 23:22092
trigger for observing multipronged events in, design of counter-array, 25:34968 (CONF-700623-(Vol.2), pp 593-605)
triggering by wire chambers of SLAC 40-inch, for proposed study of diffractive N^* production, 25:34971 (CONF-700623-(Vol.2), pp 629-38)
use at Ames Laboratory, July 1967 to June 1968, 23:1580 (IS-1900, Paper 6)
use in research on strong interactions, 21:42278 (IS-1600, Paper 6)
use of model of ANL 12-foot, in studying engineering problems, 21:16115 (CONF-660918-, pp 102-3)
uses of heavy-liquid, for high-energy physics research, 23:29227
vacuum tank for NAL 15-foot hydrogen, stress analysis of, 25:13298 (NAL-48-2624)
valve for liquid hydrogen, design of high-speed, 21:6297
valve for, design and performance of high-pressure fast, 25:10870 (JINR-P13-5420)
vessel for IHEP freon—propane, calculation and model investigation of stressed state of, 25:23848 (IFVE-SPK-70-9)
vibration of liquid in, during expansion, 22:12625 (CERN-67-26(Vol.2), pp 349-69)

RADIATION DETECTORS, CHEMICAL
see also Radiation Dosimeters, Chemical
bibliography on gaseous, liquid, and solid, 21:30732
description of dose indicator plastic, 25:42077(P)
description of dose indicator point, 25:42078(P)
design and performance of tetrachloroethylene, for measuring solar neutrinos by (ν,e^-) reactions, 23:9693 (BNL-12981)
development for pulsed gamma and x radiation using aqueous electron production in solutions, 23:26505 (AD-678581)
development of ethanol-chlorobenzene system for high-level dosimetry of electrons and γ, 21:26259
development of metal oxide-activated glasses as, 22:12593(P)
development of solid, based on color difference in benzene homologs, 24:36263(R) (AE-397)
efficiency for gamma dosimetry, method for calculating, 21:32487
G-values for ferrous sulfate, use of aluminum calorimeter for measuring, 21:14477
performance for dosimetry in human phantoms, 22:8513 (CONF-670219)

performance in 42 MeV betatron, effects of energy dependence on, 25:13446
performance of carbon tetrachloride—dithizone mixture as, 21:3117
performance of cellulose acetate films for measuring gamma—neutron radiation and heavy charged particle absorbed doses, 23:35223
performance of ethylene, for reactor tube monitoring, 21:4563
performance of nitrous oxide for use as, 21:14237(R) (JLI-2901-75)
properties of anthracene crystals as, for measuring gamma activity, 21:96 (CONF-660612-4)
properties of ferrous sulfate for use as, 21:12285(R) (ORNL-4039)
properties of fluorocarbon, for simultaneous dosimetry of fast neutrons and gamma radiation, 21:8625 (SGAE-CH-40/1966)
properties of potassium dichromate for use as, 21:1375 (BLG-407)
properties of salicyl phosphate for use as, for cosmic radiation, 24:9373
use for gamma dose rate measurements in reactors, 21:30276
use for gamma flux measurements in Ames Research Reactor, 21:42813 (IS-1600, Paper 7)
use of colorimetric, for identification of gamma-emitting isotopes, 21:22154
use of ferrosulfate, for x-ray dosimetry, 21:45630
use of polyvinylchloride film, for electron beam dosimetry, 21:16207 (RISO-141)

RADIATION DETECTORS, CHERENKOV

book: Cherenkov Radiation in High-Energy Physics. Part II. Cherenkov Counters: Determination of Energy and Direction of Elementary Particles, 25:29368(T) (AEC-tr-7099(Pt.2))
book: Vavilov—Cherenkov Radiation and Its Application in High Energy Physics. Part II, 23:7799
book: Vavilov—Cherenkov Radiation and its Uses in High-Energy Physics, 23:4836
calibration and testing of, for fission products in reactor water, 21:35616
calibration for various voltages, 22:21318 (UCRL-50176)
calibration of high-resolution lead-glass, for 200- to 900-MeV electrons, 25:42154
calibration of total absorption, for gamma spectrometry at 100 to 700 MeV, 24:14306
characteristics of threshold, with perspex radiator, 21:34468 (JINR-P13-3328)
coincidence circuits for meson (K) and meson (π) detection, 22:33690 (ZfK-121, pp 134-248)
cryogenics for, developments in, 25:43735
data analysis for gaseous, used in measuring reactor core gamma distribution, use of Langevin's technique for, 22:30832
data from, design and performance of logarithmic encoders for analog-to-digital conversion of, 25:48935
description for failed-fuel-element detection, 22:16863
description of balloon-borne gas, for low energy gamma ray astronomy, 24:27377
description of logarithmic, for Madison Event, 22:21318 (UCRL-50176)
description of threshold, with plexiglas radiator, 22:38008
description of, used for detecting fission products in reactor coolants, 24:39272(P)
design and fabrication of large area gas, 21:10651
design and operation of, 23:38317
design and operation of helium gas, for monitoring high-intensity multi-GeV photon beams, 24:13246
design and operation of separated function shower, for detection of electrons and gamma rays at 300 to 1600 MeV, 25:15938
design and performance for energy measurement of high-energy protons, 25:44684 (JINR-P13-5866)
design and performance for gamma dose rate measurements, 23:26525
design and performance for total-absorption spectroscopy with KRS-6 single-crystal radiator, 25:18787
design and performance of balloon-borne gas Cherenkov—scintillator telescope for measuring charge spectra of cosmic particles, 25:15944
design and performance of burst can, for operation in coolant loops of pressurized water reactors, 21:30713
design and performance of differential gaseous, (E), 21:292
design and performance of differential liquid, with variable velocity response, 21:16101 (BNL-50031)
design and performance of Fitch-type inverse threshold, in time-of-flight telescope for selection of K^- from 900-MeV/c $K^-\pi^-$ beam, 23:43593
design and performance of freon and perspex, for investigation of 120- to 320-MeV/c meson (π) beams, 22:38097
design and performance of gas, with large phase-space acceptance, 24:16888
design and performance of helium differential, for detecting very-high-energy particles, 25:15937(T) (NAL-tr-3)
design and performance of high resolution differential, 25:18794
design and performance of high-energy and ultra-high-energy, 24:4484
design and performance of high-resolution differential, 25:44679 (IFVE-SEF-70-48)
design and performance of high-resolution gas, 24:29568(T) (NAL-tr-2)
design and performance of high-resolution gas threshold, 24:44323
design and performance of high-resolution threshold, 25:21429
design and performance of large aperture, 25:2489
design and performance of large-area, 21:6298
design and performance of liquid hydrogen differential, for detection and lifetime measurements of π^+ and π^- for test of CPT invariance, 23:21967
design and performance of miniature shower spectrometer of, 25:21437
design and performance of threshold, for recording ultraviolet portion of spectrum, 23:2653
design and performance of total-absorption lead glass, for studying $\gamma + p \rightarrow \pi^0 + p$, $\pi^0 \rightarrow \gamma + \gamma$ interactions, 22:371
design and performance of total-absorption, for electrons and photons with energies above 100 MeV, 23:31546
design and performance of, book on, 21:1618
design and performance of, for fast electrons, 21:6239
design and performance of, for fission-product monitoring in reactor-coolant water, 21:43221 (AE-294)
design and performance using monochromatic method, for protons at 665 MeV, 25:26505 (JINR-P13-5636)
design and performance with apochromatic prism doublet for protons at 657 MeV, 25:26506 (JINR-P13-5637)
design for cosmic gamma-ray studies, (E), 25:49620 (AD-716492)
design for detection of fission products in reactor coolant liquids, 25:39718(P)
design for extended recording method for pulsed neutron detection, 24:16861
design for interaction point localization for neutral-final-state interactions, 23:17801
design for studying high-energy particle elastic scattering over wide angular range, 24:23018 (CEA-N-1258)
design modification of differential-threshold, 24:9637 (IFVE-SEF-69-7)
design of, 23:35021
design of 4-, 12-, and 42-in. low pressure gas threshold, engineering drawings for, 23:14041
design of 4-in. liquid differential, engineering drawings for, 23:14040
design of argon-filled, for monitoring electron beam in Stanford Linear Accelerator switchyard, engineering drawings for, 22:47375
design of compact gas, for detection of electrons, 21:36386
design of differential liquid, with variable velocity response, engineering drawings for, 21:43274
design of differential—threshold, 25:18788
design of gas threshold, for discrimination of particles from IHEP proton synchrotron, 23:45523
design of gas, for detection of electrons in decay of hyperons (Λ^0), 21:16125 (CONF-660918-, pp 205-6)
design of gas, for reactor power monitoring, 24:47891 (ANL-7610, pp 369-464)
design of gaseous threshold, for high-energy gammas, 21:6255
design of high pressure gas differential, engineering drawings for, 23:14037
design of inserts for, for elimination of count-rate variations due to pigments in radioactive solutions, 25:42082
design of large solid angle Freon-12 filled, for detection of electrons from decay of hyperons (Σ^-), 21:16124 (CONF-660918-, pp 199-200)
design of liquid hydrogen and deuterium differential, for measuring π^+ and π^- lifetimes, 22:47374 (UCSB-34-P-135-7)
design of liquid hydrogen focusing, 21:10610 (UCRL-17129)
design of nitrogen gas, for monitoring intensity of electron beams with energies greater than 200 MeV, 23:22042
design of threshold, with thin Plexiglas radiator, 23:45527
design of total absorption nuclear cascade, for detection of high-energy particles, 22:38040
design optimization of, miniature pulsed light source for, 24:14284
design proposal for differential, for high momentum beams, 24:50616 (TID-25473(Vol.3), pp 11-15)
design study of large aperture gas threshold, using wavelength-shifter technique for light collection, 22:33632 (AD-666558)
design, assembly, and operation of, specifications and engineering drawings for, 23:2561 (UR-875-255)
design, operation, and uses of, 21:12645(T) (AD-643601)
development for beta detection in water, 25:55031
development for high-energy particle spectroscopy, 23:47843
development of differential gas, for mesons (K) above 1.5 GeV/c, 21:33807 (RHEL/R-129, pp 45-77)
development of large area gas, for high-energy gamma-ray astronomy, 25:48931
development of large, for detecting neutrino flashes of collapsing stars from remote galaxies, 25:32272
development of nitrogen gas, for monitoring high-energy electron beams, 25:420 (AD-705505)
development of reactor power monitor, 24:40935
development of shower, for electron energy measurement up to 15 GeV/c, 25:18779
development of threshold gas, for high-energy electrons, 25:10874
development of total absorption, for hadron and electron—photon detection at 100 MeV, 24:50620 (TID-25473(Vol.3), pp 51-6)
development of underwater, with Lucite light trap, 24:39368
development of water, for muons at 0.5 to 100 GeV/c, 25:4375
development of, for high-energy physics, 21:3250 (UCSB-34-P-135-1)
discriminator with small-time skewing for, design and performance of fast-gated, 22:335
efficiency and resolution of hodoscope, 25:10869 (JINR-E13-5459)
efficiency for counting phosphorus-32-labeled RNA, 23:11800
efficiency for detecting gamma rays from eta^0 and π^0 meson decays, 25:49004
efficiency of large area gas, for detecting 3.5-GeV/c mesons (π), 21:10651
fabrication of large-area directional, for use as neutrino detector, 21:19943
filling gases for, optical transmittance measurements of, 25:37645
light collection from, solid light funnels for increasing efficiency of, 22:43034
light collection systems for gas, computer programs for design of, 24:5930
light output from, design of nanosecond pulse generator for simulation of, 21:45389
mirrors for threshold gas, fabrication of ellipsoidal, 21:32402
mirrors for use in, design of large lightweight, 25:49016
operation and performance of focusing-type, for detection and identification of elementary particles, 25:6577
operation and performance of gaseous, for fission rate fluctuation measurements in reactors, 22:47027
operation of shower, for energy measurement of high-energy electrons and photons, 25:13300
operation of threshold, for calibration of 45-MeV betatron, 25:21414
operation with spark chambers, 23:16097
optical contacts for, performance of silicoorganic compounds as, 24:27359
optical reflectors for internal sample, 23:2046
optical system for focusing wide-angle light in, design of catadioptric, 22:318
performance for activity measurements of radioisotopes, 24:14282
performance for deep-sea intensity measurements of cosmic mesons (μ), 23:17797(T) (AD-661754)
performance for detection and discrimination of mesons (K^+), 23:17802
performance for determination of phosphorus-32 in plant tissues, 23:7940
performance for particle identification by using distinctive angles of light emission, 25:42141
performance for phosphorus-32 determination in biological samples, 24:33910
performance for studying nuclear events by coincidence method, 23:11794
performance for x-ray detection in plasma devices, 24:51717
performance in integrated mode for detection of pulsed electrons at 8 to 20 MeV, 24:11841
performance in reactor noise analysis system, 22:32976(R) (MIT-2344-12)
performance of Cherenkov—scintillation detector combination for cosmic particle mass discrimination in large aperture range telescope, 25:49005
performance of differential-threshold, (T), 24:29567(T) (NAL-tr-1)
performance of fission product monitoring, for high temperature gas cooled reactor cooling system, 25:25998
performance of four-element lead—glass, 21:46456(R) (NYO-1984-11)
performance of lead fluoride, for high-energy positron detection, 22:28122
performance of organic glass, transparency data for, 24:11840
performance of perspex, for cosmic particles, 21:28242
performance of threshold gas, for 200 GeV/c beams, 25:44692
photomultiplier shielding for, used in intense magnetic fields, 23:45532
photomultiplier tubes for low level, 23:2046
prisms for, calculation of achromatic, 25:48992 (JINR-P13-5868)
pulse analyzers for, design of high-speed multichannel semiconductor, (E), 21:6293
pulse shaper circuit for improved time resolution, 25:18639 (IFVE-SEF-69-44)
pulse shaper for, design of compensated high-speed, 25:48999
pulses from, design of coincidence circuits for recording, 22:6584
radiating medium for, refractive index of liquid deuterium, 23:47840
radiation path in, apochromatization and trigonometric calculations of, 22:2343 (JINR-P13-3488)
reactor power measurement using quartz emitter, description of, 23:4479
removal from Stanford Linear Accelerator vacuum system, quick disconnect couplings for, 21:17760
resolution for detection of relativistic electrons, calculation and measurement of, 23:44619
resolution of gas, 24:29568(T) (NAL-tr-2)
resolution of lead fluoride, 22:40426
resolution of shower, for high-energy electrons, 25:18786
resolution of total absorption, 25:44678(T) (CERN-Trans-71-11)
resolution of total-absorption lead-glass, for 200- to 900-MeV electrons, 25:42154
response function for photodiode, determination of, 22:19099 (UCID-4675)
response of lucite and quartz, to gamma and fast neutron radiation, 22:21318 (UCRL-50176)
response of total absorption, proposal for testing at NAL Synchrotron, 24:50619 (TID-25473(Vol.3), pp 49-50)
sensitivity of, effects of energy on gamma, 22:25633 (UCID-15318)
time characteristics of total absorption, in nanosecond range, 25:44678(T) (CERN-Trans-71-11)
timing circuits for, design of fast,, 22:14813
use as anticoincidence shield for cosmic-ray background reduction in thallium-activated sodium iodide detectors, 22:23279
use for detection of failed fuel elements in WWR-M reactor, 21:38674
use for determining beta sources in biological materials, 23:2555 (EUR-4066)
use for fission product monitoring of reactor coolant water, 23:2046
use for measuring activity of beta sources, 22:19122

use for measuring flux and chemical composition of cosmic radiation, 21:37210
use for optimum neutron noise analysis in power reactor shutdown, description of, 23:4196 (RISO-M-793)
use for particle velocity determinations, image brightness intensifier for, 22:4541
use in cosmic ray telescopes, 21:1617
use in cosmic ray telescopes for electron spectroscopy, 21:16190
use in cosmic-ray spectrometers, 21:313
use in satellite electron detector, (E), 21:6233
use in system for measuring charge composition of primary cosmic radiation from $Z = 1$ to 50 at 10 GeV to 100 TeV, 22:40412
use in system for measuring differential cross sections for $\pi^+ + d \rightarrow p + p$ interactions at 143 to 264 MeV, 23:8734 (CERN-68-40)
use of gaseous, for detection of prompt high-energy gamma rays for reactor power-level monitoring, 22:4440
use of gaseous, for reactor noise measurements, 22:22846
use of liquid scintillation, for determining potassium-42 content in human urine, 21:32414
use of threshold gas, with spark chamber momentum spectrometer for measuring electron spectra in K^+ decay, 21:26178
use with cylindrical spark counters for detection of meson (μ) pair production by cosmic mesons (μ), 21:35257
use with spark chamber for measuring effective mass in $\gamma\gamma$, e^+e^-, $\pi^0\gamma$, and $\pi^0\pi^0$ decays, 21:24216
wavelength shifter for liquid, use of POPOP in ethylene glycol or bromobenzene solvents as, 23:47819
wavelength shifters for liquid, used for detection and measurement of K^+ decay products, 23:21968

RADIATION DETECTORS, CLOUD CHAMBER
control circuits for Wilson, used for detection and measurement of cosmic radiation, 22:43079
data analysis for cosmic particle reactions with nuclei at very high energies using Wilson, 25:1359
description of low-pressure, for detection of fission fragments, 24:14254
description of Wilson expansion, for photonuclear reaction measurements, 24:4450
design and operation of, 23:38317
design and operation of discharge—condensation, 25:8551
design and operation of rapid-cycling, 25:34955 (CONF-700623-(Vol.1), pp 408-17)
design and performance of discharge—condensation chamber, 21:22163
design for recording EAS, (E), 21:35045 (BMwF-FBK-67-45)
design of 40-cm-diameter Wilson, for studying (n,α) reactions, 23:26520
design of diffusion, for investigating photonuclear reactions on helium-3, 22:2359
design of diffusion, for scattering experiments on polarized neutrons, 22:44577 (NP-17572)
design of hydrogen discharge, 22:49118
design of ion-chamber—, for measuring cosmic proton and pion interactions in light materials above 140 GeV, 21:30725
design, operation, and uses of diffusion and Wilson, 21:12645(T) (AD-643601)
droplet size and concentration in, time-resolved measurement of, 24:33865 (AD-702755)
efficiency of low pressure, for neutron flux determination in high γ background, 24:9145 (JUL-599-RX)
evaporation and nucleation processes in Wilson, 22:10608
expansion of Wilson, characteristic properties of, 22:43100
monitor for Wilson, for measuring energy flux of photons, comparative, 23:11863
particle track distortion in Wilson, 24:11787
particle track stereo reading apparatus with redundancy, 24:16887
particle tracks in picture description language for computer film analysis of, 22:10595 (SLAC-PUB-358)
particle tracks in, computer program for analysis of, 21:45405
particle tracks in, computer program for analyzing low-energy, 21:6289
particle tracks in, development of film scanning and measuring center for analysis of, 21:39201
particle tracks in, equipment for automatic film analysis of, 24:39359(P)
particle tracks in, quark identification from, 24:40293
performance for detection of cosmic showers, 24:33942
performance of discharge-, for charged particles, 21:24219
performance of for charged particles, 21:24219
performance of low pressure, for range measurements of low energy electrons, 23:26508 (AERE-R-5991)
performance of low-pressure, for measuring distribution of energy deposition by ionizing particles, 25:21400
performance of Wilson, for investigating photomeson processes in synchrotrons, 23:11862
recording system for discharge, television monitor with video tape, 23:11857
temperature control in Wilson, system for, 23:45531
temperature gradient measurements in diffusion, with thermistors, 24:41663
use for detection of subionizing particles, 21:1578
use of 0.1 atm hydrogen-filled diffusion, for thermal neutron spectroscopy, 22:23316

RADIATION DETECTORS, CRYSTAL
(Detectors consisting of an intrinsic semiconductor between two electrodes to which a voltage is applied.)
see also Radiation Detectors, Semiconductor
description of ferroelectric, for x-ray spectroscopy, 22:12580
design for uv-dosimetry in medicine, 22:40807
design of diamond, 25:2441(P)
design of diamond, 25:44589(P)
design of diamond structure, 25:6540(P)
design of diamond, for operation in corrosive media, 25:44590(P)
design of diamond, with radiator foil converter for neutron detection, 25:55009(P)
design of diamond-structure, for charged particles, 24:20986(P)
design of position-sensitive, 25:44591(P)
design of total absorption nuclear cascade, for detection of high-energy particles, 22:38040
design, operation, and uses of, 21:12645(T) (AD-643601)
performance for measurement of emission from man, 22:488 (AEEW-M-715)
performance of diamond, at high temperatures, 21:6261
performance of germanium, for measuring gamma spectra from SNAP-15A heat source, 25:18601
preamplifier with input cathode follower for, low-noise, 25:48907
radiation damage in materials for, in-pile, 22:19580 (BNWL-455, Paper 12.1-100)
use with liquid scintillators for detection of low-energy neutrons, 21:19152(R) (TID-23685)

RADIATION DETECTORS, DIELECTRIC TRACK
alpha absorption measurements in mica, 24:16848
bibliography on fission foil—dielectric track detectors for neutron dosimetry, 25:34867 (NP-18849)
bibliography on fission foil—dielectric track detectors, 23:31516 (NP-17917)
calculations for fission foil—dielectric track, for neutron flux measurements, 25:44640
calibration of plastic, for heavy charged particles, 25:44693
calibration of plastic, for measuring charge of heavy charged particles, 25:385
characteristics and performance for alpha exposure estimation, 23:22053
characteristics and use for dosimetry, 23:47862
characteristics for dosimetry and spectroscopy of neutrons, 25:44641
characteristics for use in nuclear physics and spectroscopy, 25:44648
characteristics of, 22:33631 (AD-666543)
characteristics of, 22:47342
conference on, France, 1969, 25:44603
conference on, France, 1969, 25:44637
description and uses of, 22:43050
description of balloon-borne multisheet, for measuring heavy cosmic particles, 25:44634
description of fission foil—dielectric track detectors for fast neutron spectra measurements, 25:44654
description of fission foil—dielectric track detector for approximate neutron spectroscopy, 25:44645
description of fission foil—Lexan track detector for neutron dosimetry, 25:44705
description of fission foil—polycarbonate track detector for thermal neutron dosimetry, 25:51911
description of mica, with uranium in etched holes for studying ternary fission, 25:45857
description of uranium- or thorium-doped phosphate glass, for neutron dosimetry, 23:47858
description of vitreous composition containing fissile material for measuring neutron flux, 24:39277(P)
description with cadmium—boron filter for monitoring of intermediate neutrons, 23:47770
design and performance for reactor physics experiments, 23:29146 (AEEW-M-881)
design and performance of boron-loaded, for thermal neutrons, 24:29496 (KAPL-M-7121)
design and performance of cellulose nitrate, for fast neutron flux measurements, 21:10630
design and performance of fision foil—mica track detectors for energy and flux measurements of high-energy nucleons, 24:9642 (UCRL-19364)
design and performance of fission foil—glass track detector for personnel neutron dosimetry, 24:7662
design for monitoring radon decay products attached to aerosols for mining personnel, 25:44698
design for neutron spectroscopy using (n,f) and (n,α) reactions, 23:47761
design of alpha, for autoradiography, 24:16810(P)
design of boron foil—plastic track with partial cadmium filter for thermal and intermediate neutron dosimetry, 23:35528
design of boron- or lithium-containing, for detection of slow neutrons, 25:23787(P)
design of cellulose nitrate, for detection of uranium-235 fission fragments, 25:18724
design of cellulose nitrate, for fast-neutron detection by etching of multipronged alpha tracks, 25:34875(P)
design of organic polymer film, for personnel radon dosimetry, 24:46524(P)
design of U-235—mica, for accidental thermal neutron dosimetry, 23:17810
design with fissionable materials for high-level neutron dosimetry, 23:26536(P)
development and research on, 25:4345
development and research on, 24:39369 (ORNL-4446, pp 251-70)
development and use in radiation protection, review on, 25:44638
development and uses of, 24:27353
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development for dosimetry, review on, 25:29385
development for high-exposure gamma dosimetry based on weight difference after etching, 25:44642
development for neutron flux monitoring for unattended safeguards applications, 25:4341
development for neutron radiography, 23:38294(P)
development for personnel neutron dosimetry, 25:10880
development of, 22:40364
development of, 25:18799 (ORNL-4584, pp 165-86)
development of, 21:12674
development of boron-10- and lithium-6-enriched nitrocellulose, using (n,α) reaction for neutron dosimetry, 25:49021(R) (UCRL-50007-71-1)
development of cellulose acetate butyrate and cellulose nitrate, with boron-10 or lithium-6 fluoride for thermal neutron detection, 24:27330 (ANL-7615, pp 198-201)
development of cellulose acetate butyrate, for alpha detection, 21:8796 (ORNL-4007, pp 171-210)
development of fission foil—dielectric track detector for neutron dosimetry, 25:57856
development of fission foil—Lexan track detector for neutron fluence and dose measurements, 23:31514 (AD-679676)
development of fission foil—Lexan, for reactor neutron detection, 24:11769
development of silver activated phosphate glass and polycarbonate plastic, for intracell fission density and neutron flux distribution measurements in NORA reactor, 23:37613 (KR-134)
development of stacked layers of plastics for alpha detection, 23:14021(P)
development of thorium- or uranium-doped metaphosphate glass, for fast neutron flux measurements, 25:48905 (JAERI-Memo-4337)
development of two-layer, with visual particle track indication, 24:27371(P)
development of uranium foil—dielectric track detector for personnel neutron dosimetry, 25:57854
development of, for charged particles, 22:10564
development of, review on, 25:46621 (RT/FI-(71)5)
development of, using organic polymers, 22:327
efficiency of mica, for fission fragments, 24:50543 (AAEC/TM-541)
efficiency of plastic, for detection of trace fissionable isotopes, 21:19893 (BNWL-339)
efficiency of polytetrafluoroethylene and cellulose, 23:37977 (ORNL-4351)
efficiency of topaz, for detection of fission fragments, 24:11783
efficiency of, for neutron flux measurements, 22:30835
energy threshold of Makrofol E, for neutrons, 25:34902
etching of plastic, photo-oxidation method for enhancing rate of, 23:7755
etching techniques for, for charged-particle analysis, 22:28120
fission fragment detection and identification in Lexan pre-irradiated with alpha particles, 23:29164
image enhancement in thin-film cellulose nitrate, for neutron radiography, 25:4346
image enhancement in thin-film, for neutron radiography, sparking techniques for, 25:4348
ion range—energy relations in, makrofol and nitrocellulose, heavy, 23:36471
neutron fission rate measurements in ZPR-6 Assembly 5 using uranium foil—mica, 23:49582 (ANL-7410, pp 339-86)
particle identification by, review, 24:27354
particle track analysis for measurement of uranium-238—uranium-235 fission ratio in reactors, 25:18704
particle track analysis in, 24:480 (COO-1671-16)
particle track analysis in fission foil—dielectric track detectors for measurement of fission ratios in reactors, 24:31684
particle track analysis in Makrofol polycarbonate, fast neutron-induced, 25:4339
particle track analysis in, automatic system for, 25:4340
particle track analysis in, calculation of range—energy and energy loss relations for, 23:7742
particle track analysis of, computer-based system for, 25:44625
particle track analysis of, interference contrast method for, 25:44627
particle track annealing in, fission fragment, 24:4431
particle track counting in polycarbonate, fission fragment, 25:4342
particle track counting in thin foils, spark—scaler method for, 25:393
particle track density measurements in, use of scattered light for, 22:37990 (KAPL-3412)
particle track diameter in, relation of fission fragment energy with, 25:44632
particle track discrimination in phosphate glass and muscovite mica, heavy, 25:44605
particle track enhancement in cellulose nitrate, using electric field, 24:4432
particle track etching enhancement by spark discharge, 25:44612
particle track etching enhancement in Lexan polycarbonate, by spark discharge, 25:44624
particle track etching in cellulose nitrate, critical energy for alpha, 25:391
particle track etching in Lexan polycarbonate, 24:44274
particle track etching in Lexan, enhancement by spark discharge, 24:44259
particle track etching in plastics, parametric study of effects on sensitivity, 25:390
particle track etching in, electrochemical, 25:42056 (RT/PROT-(71)1)
particle track etching in, method for volume, 25:18708
particle track etching methods for fast neutron detection, 25:23826
particle track etching parameters for plastic, 25:44623
particle track etching properties of polyvinyl chloride, 25:389
particle track etching rate in Zelux polycarbonate sheets in sodium hydroxide solution, 25:388
particle track etching rates of polycarbonate, environmental effects on, 25:44618
particle track formation and development in, 25:10827
particle track formation and etching in, principles of, 25:13219
particle track formation and etching processes in, 23:35480
particle track formation in, 24:50549 (NP-18411)
particle track formation in, 25:44608
particle track formation in, 23:47732 (COO-1671-18)
particle track formation in organic, latent, 25:44607

particle track formation in plastic, mechanism and applications of, 25:42070
particle track formation in plastic, restricted energy loss criterion for predicting, 23:11788
particle track formation in polymeric, effects of gases on, 25:44613
particle track formation in polymeric, review of latent, 24:27356
particle track formation in, bibliography on ionizing, 23:7726 (CEA-Bib-122)
particle track formation mechanism in polymeric, 25:44610
particle track identification in glass, fission fragment, 24:19204
particle track location in, method for, 23:17758
particle track measurement in etched plastic sheets, microscopic errors in cone-depth, 25:394
particle track measurement in plastic foils, semi-automatic scanning methods for high- and low-dose, 25:37613
particle track parameters for uranium determination, evaluation of spatial, 25:44630
particle track registration and analysis in cellullose nitrate, alpha particle, 25:10826
particle track registration in plastic, radon and neutron personnel dosimetry using alpha, 23:9720
particle track registration in polymeric, physical criteria for, 25:44611
particle track registration in, critical energy for, 25:44616
particle track visualization in, review on methods for, 25:44620
particle track visualization with solvents, 25:44622
particle tracks in cellulose nitrate, automatic counting system for alpha, 24:25272
particle tracks in cellulose nitrate, electric field enhancement of alpha, 24:39305
particle tracks in cellulose nitrate, electron microscopy study of structure of heavy-ion, 25:44621
particle tracks in cellulose nitrate, etching, energy—range calculations, and track length measurements on, 23:7772
particle tracks in cellulose nitrate, from proton reactions with gold at 19 GeV/c, hammer, 25:44650
particle tracks in cellulose nitrate, statistical study of alpha, 25:44626
particle tracks in cellulose, in various gaseous media, 24:31686
particle tracks in fission foil—, spark replica method for analysis of, 25:10882
particle tracks in glass, use of photoelectric colorimeter for counting, 25:55029
particle tracks in Lexan, dual microscope comparator for analysis of fission, 24:31712
particle tracks in muscovite mica, stability of latent fission fragment, 25:44604
particle tracks in muscovite mica, x ray scattering studies of argon ion, 25:44606
particle tracks in nitrocellulose, recording of 3- to 10-MeV alpha, 25:26474
particle tracks in plastic, measurement of cone length and range of etched, 25:44636
particle tracks in plastic, proton, 25:44615
particle tracks in plastic, spark scanning method for detecting fission fragment, 23:7752
particle tracks in polycarbonate, charge determination of cosmic, 25:4338
particle tracks in polymeric, chemical damage mechanism along, 25:44609
particle tracks in thin-film, preamplifier for spark counter for readout of, 25:18644 (ORNL-4584, pp 152-64)
particle tracks in thin-film, spark readout method for, 25:44628
particle tracks in, analysis for particle discrimination and energy determination, 25:2438
particle tracks in, automatic counting system for fission, 25:4343
particle tracks in, chemical etching techniques for developing, 22:47342
particle tracks in, correlation between energy and diameter of etched fission fragment, 24:2470
particle tracks in, elastically scattered recoil nuclei, 25:54999 (N-71-26447)
particle tracks in, elastically scattered recoil nuclei, 25:44651
particle tracks in, fluorescence method for measurement of, 25:44653
particle tracks in, review on processing and analysis of, 25:395
particle tracks in, spark counter readout system for, 25:57855
particle tracks in, spark system for counting, 25:23794(P)
particle tracks in, thermal annealing of, 25:44633
particle-track formation in, enhancement by exposure to oxygen and ultraviolet light, 25:55010(P)
performance for alpha and neutron-induced autoradiography, 24:41658
performance for charged particle discrimination, 25:44635
performance for fast neutron radiography, 24:16845
performance for measurement of fission density and fast neutron flux distributions in zero-power reactors, 25:44655
performance for measurement of spontaneous fission decay constant of americium-241, 25:46054
performance for measuring alpha angular distributions, 23:39974
performance for measuring alpha angular distributions in nuclear reactions, 25:384
performance for monitoring reactor power by nitrogen-17 decay, (E), 25:57124
performance for neutron detection and measurement, 23:50117 (INR-1097)
performance for neutron measurements in reactors using optical density method, 25:386
performance for personnel monitoring of alpha particles for measuring exposure to inhaled radon daughter products, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
performance for personnel neutron dosimetry, 25:57855
performance for profile measurements of high-intensity beams, 25:2434 (CERN-70-27)
performance for rapid personnel neutron dosimetry, 24:41874 (AECL-3430, pp 1-3)
performance for thermal neutron detection using boron-10 and lithium-6 fluoride converters, 25:44656
performance for uranium-235 fission fragment energy measurement from track length, 23:45537
performance of Apollo astronaut helmets of Lexan polycarbonate, for dosimetry, 25:42160 (N-71-14602)
performance of celluloid film, for alpha particle detection, 22:49116
performance of cellulose acetate, for alpha particle detection at 1.5 MeV, 24:9657
performance of cellulose acetate, for proton detection, 25:10831
performance of cellulose nitrate to measure enrichment of uranium metal, 25:392
performance of cellulose nitrate, for alpha metallographic autoradiography, 25:4344
performance of cellulose nitrate, for alpha particle autoradiography, 25:18799 (ORNL-4584, pp 165-86)
performance of cellulose nitrate, for detection of heavy ions, 23:29155
performance of cellulose nitrate, for measuring alpha backscattering from monocrystals, 23:26546
performance of cellulose nitrate, for radon-daughter exposure measurements, 23:22051
performance of fission foil—dielectric track detectors for neutron spectra measurements in standard neutron irradiation facility, 24:41689
performance of fission foil—dielectric track detectors for neutron flux monitoring, 25:44644
performance of fission foil—glass track detector for in-core neutron spectra measurements, 25:10836
performance of fission foil—Lexan track detector for fast neutron spectrum measurements at irradiation facility of Livermore Pool-Type Reactor, 23:31540 (UCRL-50007-68-3, pp 21-5)
performance of fission foil—mica and polycarbonate track detectors for neutron flux measurement, 24:31692
performance of glass slide, for neutron temperature monitoring in thermal reactors, 25:34410
performance of glassy, for age estimation and uranium determination, 25:13219
performance of high-resolution plastic, for detection of heavy cosmic particles, 24:482 (N-69-35895)
performance of Lexan plastic as high-exposure gamma, 24:27355
performance of Lexan plastic, for study of elemental abundance of 150 to 250 MeV/nucleon $Z = 16$ to 30 cosmic nuclei, 25:4373
performance of Lexan polycarbonate, for radiation monitoring onboard Apollo VIII, 25:44639
performance of Lexan, for heavy charged particle monitoring of astronauts aboard Apollo VIII, 24:39226
performance of Lexan, for heavy ion dosimetry during Apollo 8 and 12 missions, 25:37653
performance of nitrocellulose film for alpha autoradiography of bones, 24:27326 (ANL-7615, pp 1-3)
performance of nitrocellulose, for light charged particles, 23:16104
performance of plastic, for alpha radiography, 25:18727
performance of plastic, for alpha radiography, 25:42093
performance of plastic, with (n,^{4}He) converter foils for fast neutron flux measurements, 24:39225
performance of plastics with boron-10 and lithium-6, for slow neutron detection, 24:41671
performance of sandwich, for fast neutron detection by (n,^{4}He) reactions, 24:31715
performance of shielded, with aluminum and carbon converters for neutron flux monitoring, 25:44643
performance of thorium- and uranium-doped phosphate glass, for neutron fluence measurements, 25:44593
performance of triacetate cellulose, for alpha dosimetry and spectroscopy, 25:55026
performance of uranium foil—mica track detector for thermal neutron flux measurements, 25:15879 (ANL-7760(Pt.1), pp 57-66)
performance of uranium foil—mica track detectors for environmental neutron measurements, 24:31714
performance of uranium foil—muscovite track detector for neutron flux measurements at 14 MeV, 24:14259
performance of uranium—mica, for dosimetry of high-energy x radiation, 23:35524
performance of uranium-filled mica, for 4π proton detection, 24:41675
performance of, for absolute fission rate measurements, 22:47346
preparation and track etching in boron-impregnated 1/v, for slow neutrons, 25:10820
preparation and use for fast-neutron fission cross section measurements, 24:31723
preparation and use of sandwich, for measuring ternary photofission of thorium-232, uranium-238, and plutonium-239, 24:29515
preparation of 4π mica targets containing uranium in holes, 24:41675
preparation of cadmium-doped silver chloride monocrystals, 25:21397
preparation of calibrated uranium—thorium glass, for neutron detection, 25:44647
processing of triacetic cellulose and polycarbonate, for fast neutron dosimetry, 24:36556 (JUL-603-ST, pp 191-4)
properties of, 22:6563
properties of cellulose nitrate, for alpha particle detection, 24:50549 (NP-18411)
properties of fissionable material-doped, for neutron detection, 24:31691
properties of poly(vinyl chloride), 25:44617
resolution of cellulose nitrate, for alpha autoradiography, 25:21384 (ANL-7760(Pt.2), pp 208-16)
resolution of Lexan, for very-heavy high-energy cosmic particles, 25:21440
response to heavy ions and magnetic monopoles, model for, 23:50169
scanner for, orthogonal mechanical, 21:39193(T) (ANL-Trans-509)
scanning of, development of computer-controlled microscope for, 23:35484
sensitivity enhancement of plastic, photo-oxidation method for, 24:39227
sensitivity for charged particle identification, 25:44631
sensitivity of cellulose nitrate, for alpha particle tracks, 21:10626
sensitivity of fission foil—dielectric track detectors for neutron dose measurements, 24:9661
sensitivity of fission foil—dielectric track, for neutron dosimetry, 24:22997
sensitivity of Lexan, use of ultraviolet radiation in presence of oxygen for improving, 23:26532
sensitivity of organic foil, effects of oxygen and humidity on, 22:51226
sensitivity of plastic, effects of etching parameters on, 25:44629
sensitivity of polymeric, effect of chemical factors on, 25:29335
sensitization by ultraviolet irradiation in oxygen environment, 25:44619
sensitization of cellulose nitrate, 25:44614
standards for fast-neutron flux measurements by, tentative, 25:51870
theory and use of polymeric, 24:33869 (ORNL-TM-2826)
track etching in plastics, parameter study, 24:41669
track etching rates in polycarbonate films, combined effects of ultraviolet radiation and gases on, 24:41672
track etching rates of LEXAN polycarbonate, ultraviolet radiation in presence of oxygen for enhancing, 23:31515 (AD-682922)
track microstructure in nitrocellulose, heavy ion, 24:41674
tracks etched in glass, energy dependence of diameter of fission-fragment, 24:41670
tracks in, formation and properties of, 24:41665
tracks in, theory of, 21:41230
use for alpha spectrum measurements of separated decay products of thorium-228, 24:31724
use for angular distribution measurements of alpha particles in nuclear reactions, 25:44649
use for fission rate determination in reactor fuel rods, (E/T), 24:46135
use for measurement of TRIGA Mark-2 fast and thermal neutron flux by coated metallic plate muscovite mica, 23:40398
use for measuring cross sections for compound nucleus excitation in heavy-ion nuclear reactions, 25:45991
use for precision fission rate measurements, 21:30091(R) (ANL-7210)
use for studying alpha-induced fission, 25:46057
use for studying heavy-ion induced fission, 24:20401
use for studying ternary photofission of plutonium-239, thorium-232, and uranium-238, 25:46056
use in reactor physics experiments, 21:30706
use in reactor physics experiments, 21:28209 (NORA-Memo-123)
use of cellulose nitrate, for control of uranium enrichment rate, 25:32057
use of cellulose nitrate, for measuring properties of radon daughter aerosols, 25:44794
use of differing-threshold, to study ternary photofission, 25:1761
use of Lexan, for measuring heavy cosmic particle dose to Apollo astronauts, 24:31747
use of plastic, for alpha detection, 24:27342 (CONF-690540-, pp 510-16)
use of plastic, for neutron dosimetry, 23:31751 (NP-17848)
use of plastic, with selective etching of track damage, 21:6251
use of siliceous glass, for detection of curium-244 fission fragments, 24:19214
uses at Sofia, 1967, 25:44657
uses for autoradiography, dosimetry, and microanalysis, 25:10823
uses of, 25:4347
uses of, review on, 25:44652
uses of, review on, 25:10825
visual imaging of track-etched patterns in, method for, 23:29160(P)
RADIATION DETECTORS, ELECTRON MULTIPLIER
see also Electron Multiplier Tubes
RADIATION DETECTORS, FISSION CHAMBER
amplifier for, design of differential, 22:19108
amplifier for, design of transistorized, 21:22165
amplifier—discriminator system for, 21:34515 (ORNL-4091, pp 1-14)
cable for in-core, for neutron monitoring, mineral-insulated coaxial, 25:6530 (AEEW-R-698)
cables for in-core, development of mineral-insulated triaxial, 25:23827
calibration for reactor control systems, 22:28063 (CONF-661020-18)
calibration of B and W Critical Experiment Laboratory multi-rod critical assembly, description of, 22:32740(R) (BAW-3647-7)
calibration of, method for, 21:19280
calibration to 100 MW of Fermi Fast Breeder Reactor, description of, 22:30120 (APDA-NTS-17)
circuit for neutron flux monitoring, Campbell type, 25:15883 (CEA-R-4119)
circuit for reactor control, wide dynamic range, 25:23768 (CEA-N-1425)
circuit for, Campbelling-type, 25:407(P)
circuits for automatic reactor control, 22:33691 (ZfK-121, pp 249-319)

circuits for Campbelling measurements, γ discrimination and sensitivities of averaging and rms type, 22:28084
circuits for EBR-2 neutron flux monitoring system, performance of counting-Campbelling, 22:28072
circuits for in-core thermal neutron flux monitoring, design and testing of 10-decade wide range, 25:2502 (GEAP-11094)
circuits for in-core, for reactor control during start-up, 23:23882
description for underwater determination of californium-252 in reactor targets, 24:29528
description of neutron source-monitoring, 25:8447(R) (BHO-65-1)
description of single fixed-position, for neutron flux monitoring in reactors, 21:32442
description with directional sensitivity, 24:14275
design and performance, 23:41016
design and performance of fission electric cell, 22:45289
design and performance of gas flow, 24:2444 (IEA-145)
design and performance of miniature, at high temperatures, 24:44241 (CEA-N-1298)
design and performance of U-234—U-235 coated, for in-core thermal neutron detection, 21:36363
design and performance of, for studying shielding materials, 21:32376(T) (AEC-tr-6719, pp 54-8)
design and use of micro-, for neutron flux measurements, 23:26517 (RT/FI-(69)9)
design for detection of neutrons, 21:30719
design for in-core neutron flux mapping, 25:34884(P)
design for local measurement of fast neutron flux, 22:49074
design for measurement of neutron fission cross sections of uranium-233 at 0.4 to 2000 eV, 25:4333
design for neutron flux measurement in water cooled reactors, 25:60046
design for neutron flux measurements in reactors, 22:12568 (AEEW-M-492)
design for operation at high temperatures for reactor control, 23:23881
design for wide-range, Campbelling, neutron-flux monitoring system for reactors, 22:303 (ANL-7224)
design of, 25:34883(P)
design of fast, plutonium 239-lined, 23:45511 (FEI-143)
design of fast, plutonium-239-lined, 24:20977(T) (ANL-Trans-819)
design of in-core regenerative, for neutron flux measurements in reactors, 22:30837
design of ionization, with nonburnable radiation materials, 23:11768
design of multiplate spark counter as, 21:4687 (CONF-651015-1)
design of multisection, 22:38006
design of parallel plate, engineering drawings for, 21:36400
design of small pulsed, with combination of fissionable materials, 23:2619
design of small, for operation at high temperature, 25:42060(P)
design of thorium-232, for fast neutron flux measurements, 25:6552
design of transistorized log-linear, for neutron flux measurements, 21:34481
design of uranium-235 coated parallel plate, for use in reactor control, engineering drawings for, 21:8621
design parameters for in-core boiling water reactor miniature, 23:13444 (APED-5706)
design parameters for in-core, for Dodewaard Power Reactor, 23:52288
design with alarm system for criticality detection at fuel reprocessing plant, 25:8486
design with fast response for photoneutron experiments, using uranium-235 capture and fission in plastic scintillator, 23:3940 (UCRL-50501)
development and testing for use in SEFOR, 21:19357(R) (GEAP-5301)
development and use for fast neutron spectrum analysis, 21:6201 (RT/FI-(66)17)
development and use for measuring fission rates, 21:6201 (RT/FI-(66)17)
development at ORNL, 24:7630 (ORNL-4459, pp 15-22)
development for determination of hydrogen in liquids and solids, 21:40761 (AEEW-M-752)
development for measuring neutron capture-to-fission ratio in plutonium-239, 21:28191 (AEEW-R-514)
development for neutron detection, 23:33383 (CEA-CONF-1235)
development for thermal neutron flux measurements in gas-cooled reactors, 21:19968
development of burnup-compensated, containing mixtures of fertile and fissionable materials, 21:39195
development of improved, 21:35696 (ANL-7320, pp 657-62)
development of regenerative, for in-core neutron flux monitoring, 22:36025 (BNWL-SA-1621(Rev.))
development of regenerative, for measuring high-flux thermal neutrons in reactors, 22:304 (BNWL-430)
development of, review of, 23:24420 (CEA-CONF-1232)
drive mechanism for in-core boiling water reactor miniature, design characteristics of, 23:13444 (APED-5706)
effects on thermal neutron flux depression, calculation of, (T), 23:49660
efficiency of, lead slowing-down-time spectrometer for measurement of, 25:15921
fission foils for, for thermal neutron flux monitoring, thorium-232—uranium-235—uranium-238, 24:46486
fissionable material content in, method for determining, 22:14807
gas filling for, 24:22994(P)
location in Fermi reactor, neutron flux mapping measurements for, 21:12118 (APDA-NTS-8)
neutron flux measurements in research reactors by, methods for, 22:12110
neutron response function for polyethylene-moderated, fast, (T), 21:46643(R) (ORNL-4134)
operation and performance for in-core neutron flux measurements using cross-correlation method, 24:2476
operation for determining power output of reactors, 23:43213(P)
operation in gamma-cancellation mode for detection of neutrons from pulsed electron linear accelerator, 23:35485
performance for in-pile power level measurements, relative gamma discrimination coefficients for, 23:11300 (RCN-98, pp 427-37)
performance for monitoring neutron flux distribution in Garigliano power reactor, 21:39197
performance for neutron detection in intense gamma fields, 23:2573
performance in high gamma fields, 24:46484
performance in high gamma fields, 24:46485
performance of counting-Campbelling, in EBR-2, 22:14247 (ANL-7380, pp 168-9)
performance of fixed position, for reactor wide range power measurement, 23:34903
performance of in-core regenerative, for thermal neutron flux mapping in reactors, (E), 25:20711 (WHAN-FR-37)
performance of in-core, for reactor control during start-up, 23:23882
performance of in-core, in Dodewaard Power Reactor, 23:52288
performance of non-perturbing, for fission rate distribution measurements in critical assemblies, 25:42048 (ANL-7710, pp 263-364)
performance of plutonium-239, for fast neutron detection in intense transient gamma field, 22:43053
performance of sandwiched-type scintillation, for high resolution neutron fission cross section measurements, 21:3254
performance of uranium-235, high temperature and gamma radiation effects on, 24:39266
power supply for, operation and maintenance of, 22:30821 (ORNL-TM-1638(Pt.17))
preamplifier design for, 21:34547
preamplifier for standard, current pulse, 25:51857 (RDT-C-15-3-T)
preamplifier for, design of, 22:51276(R) (IDO-17269)
preamplifiers for, design and performance of low-noise wide-band current-pulse, 25:57751
preparation of thin layers of neptunium-237 for, electrodeposition method for, 23:7750
pulses from, maintenance of amplifier and count rate meter for, 22:25692 (ORNL-TM-1638(Pt.14))
readout in hard multiplying systems, asymptotic behavior of, (T), 25:55017
response function calculations for polyethylene-moderated boron carbide, for fast neutrons, 22:4436
response function calculations for polyethylene-moderated boron carbide, fast neutron, 21:39182 (K-DP-2450)
response of Saclay and Cadarache research reactor, measurement of high temperature, high neutron flux, and time, 24:18698 (CEA-CONF-1454)
sensitivity for neutron detection, effects of high-level gamma radiation on, 23:35486
sensitivity of 1/4-inch diameter, measurement of axial-variation in neutron, 23:19927 (AEEW-M-788)
standards for, international comparison of, 21:35697 (ANL-7320, pp 679-87)
testing of high-temperature, for neutron detection up to 650°C, 23:2559 (LA-DC-9611)
use for power density spectral determination in reactors, design of digital transferometer for, 22:23261 (CEA-R-3241)
use for SEFOR core neutron flux distribution, description of, 23:7399(R) (GEAP-5673)
use in neutron diffractometer system, 22:19187 (IS-1740)
use of fission foil—plastic, for neutron fluence measurements, 21:8574 (AD-643540)
use of plutonium-239 and uranium-235, for measuring neutron rethermalization in liquids, 21:19961
use with activation detector for absolute neutron flux determination, 22:28105
use with pulse transformer and balanced transmission cable for neutron flux monitoring in reactors, 21:32443
use with transistorized pulse channel for neutron flux measurements, 25:37146
uses of back-to-back, 25:15909

RADIATION DETECTORS, FISSION FOIL
activation in plutonium lattices, reaction rate calculations from, 21:44937(R) (GEAP-5513)
bibliography on fission foil—dielectric track detectors, 23:31516 (NP-17917)
bibliography on fission foil—dielectric track detectors for neutron dosimetry, 25:34867 (NP-18849)
calculations for fission foil—dielectric track, for neutron flux measurements, 25:44640
counting data of, computer programs for processing, 22:8335 (ANL-7356)
counting data of, computer techniques for processing large quantities of, 21:19971
data analysis for neutron spectroscopy, computer method for, 25:2439
description of fission foil—dielectric track detector for approximate neutron spectroscopy, 25:44645
description of fission foil—dielectric track detectors for fast neutron spectra measurements, 25:44654
description of fission foil—Lexan track detector for neutron dosimetry, 25:44705
description of fission foil—polycarbonate track detector for thermal neutron dosimetry, 25:51911
design and performance for neutron detection, using uranium or thorium fissionable materials and glass or mica as detector materials, 22:40370
design and performance for personnel neutron dosimetry, 22:19168
design and performance of fision foil—mica track detectors for energy and flux measurements of high-energy nucleons, 24:9642 (UCRL-19364)
design and performance of fissile material—plastic disk, for fast and thermal neutron personnel dosimetry, 23:38325 (EIR-152)
design and performance of fission foil—glass track detector for personnel neutron dosimetry, 24:7662
design and performance of mica- and glass-sandwiched, for detection of neutrons, 22:40434
design and performance of uranium—photographic plate, for neutron flux measurements, 22:38028
design and performance with plastic track registration for neutron fluence measurements, 23:11805
design and performance with plastic track registration for neutron dosimetry, 23:11805
design for discrimination between alpha particles and fission fragments, 21:39199
design of fission foil—dielectric track combination for neutron spectroscopy, 23:47761
design of fission foil—semiconductor detector, for neutrons, 21:45428(P)
design of U-235—mica, for accidental thermal neutron dosimetry, 23:17810
development for neutron detection down to 1 keV using uranium-235 and coincidence scintillation detectors, 25:10845
development for neutron dosimetry, 25:49021(R) (UCRL-50007-71-1)
development for personnel gamma radiation monitoring, 21:19974(P)
development of dielectric track—, for personnel dosimetry, 25:10882
development of fission foil—Lexan track detector for neutron fluence and dose measurements, 23:31514 (AD-679676)
development of fission foil—Lexan track detector for reactor neutron detection, 24:11769
development of glass-sandwiched uranium, for measurements of neutron fluence, 21:17815 (AECL-2657)
development of mica-sandwiched uranium, for measurements of neutron fluence, 21:17815 (AECL-2657)
development of solid-state track, for radiation dosimetry, 21:39278
effectiveness for measuring neutron dose to man in accidental exposure, 25:58019
fission fragment recording in mica of, 22:36069
intercalibration factors for, 21:12653
neutron activation measurements using epicadmium and fast, 22:16316(R) (GEAP-5505)
neutron flux dipping or peaking correction for particle size, for use in thermal fission rate density measurements, 23:17246(R) (BNWL-985)
neutron flux peaking and dipping in particle size, correction method for, 23:15738(R) (BNWL-963)
particle track analysis in fission foil—dielectric track detectors for measurement of fission ratios in reactors, 24:31684
particle track parameters for Lexan and glass, 25:408
performance for neutron dosimetry, 25:6692 (CONF-691106-, pp 30-45)
performance for neutron dosimetry, 23:11752 (BNWL-481-2, pp 155-200)
performance for neutron spectra measurements, 25:13210 (JINR-P3-5421)
performance in dosimetry of neutrons, 21:19893 (BNWL-339)
performance of aluminum—Mylar wrapped mica, as in-pile flux monitor, 24:14866(R) (BNWL-658)
performance of converter foil—dielectric track, for measuring thermal neutron fluxes, 23:7740
performance of fission foil—dielectric track detectors for neutron spectra measurements in standard neutron irradiation facility, 24:41689
performance of fission foil—dielectric track detectors for neutron flux monitoring, 25:44644
performance of fission foil—glass track detector for in-core neutron spectra measurements, 25:10836
performance of fission foil—Lexan track detector for fast neutron spectrum measurements at irradiation facility of Livermore Pool-Type Reactor, 23:31540 (UCRL-50007-68-3, pp 21-5)
performance of fission foil—mica and polycarbonate track detectors for neutron flux measurement, 24:31692
performance of Hurst, for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance of neptunium-237 and thorium-232, with aluminum and nickel activation foils for fast neutron flux measurements, 24:44272
performance of neptunium-237 and uranium-238, for in-core fast neutron fluence measurements, 25:37619
performance of uranium foil—mica track detector for thermal neutron flux measurements, 25:15879 (ANL-7760(Pt.1), pp 57-66)
performance of uranium foil—mica track detectors for environmental neutron measurements, 24:31714
performance of uranium foil—muscovite track detector for neutron flux measurements at 14 MeV, 24:14259
performance of uranium—mica, for dosimetry of high-energy x radiation, 23:35524
performance of uranium—mica, for personnel neutron dosimetry, 23:47748
performance of, analysis of fission yield for fast reactor spectra, 25:5973
performance with calcium-fluoride phosphor for thermoluminescent dosimetry of fast neutrons, 25:445
performance with plastic foil as personnel neutron dosimeter, 25:444
preparation and standardization of, 22:37340(R) (EANDC(E)-89(U))
preparation of thin layers of neptunium-237 for, electrodeposition method for, 23:7750
preparation of thin-film, methods for, 25:23777 (RT/FI-(70)23)
review of, 25:18811
sensitivity of fission foil—dielectric track detectors for neutron dose measurements, 24:9661

  sensitivity of fission foil—dielectric track, for neutron dosimetry, 24:22997
  standard uranium glasses for neutron dosimetry, 25:32280
  track density measurements in dielectric track, use of scattered light for fission fragment, 23:4813
  track recording media in, evaluation of mica, quartz, and dacron, 22:36071
  use in self-indication measurement of fissile material thickness, 23:24399
  use of gold foil, for measurement of neutron flux peaking and dipping in PRCF 13 element core, 23:31236(R) (BNWL-1039)
  use of gold foil, for neutron flux peaking and dipping in PRCF 13 element core, 23:33080(R) (BNWL-1053)
  use of indium foil, for neutron flux measurement comparisons with boron fluoride (BF_3) proportional counter, 23:31236(R) (BNWL-1039)
  use of indium foil, for neutron flux measurements comparison with boron fluoride (BF_3) proportional counter, 23:33080(R) (BNWL-1053)
  use of Lexan polycarbonate particle track, for detecting low-energy heavy cosmic particles, 23:630
  use of mica- or plastic-sandwiched, for neutron personnel dosimetry, 21:26255
  use of plastic, as neutron dosimeter, 25:450
  use of solid-state track, and (n,α) and (n,f) reactions for determining content of various elements in water, 23:616
  use with solid-state track detectors for detecting neutrons, 23:4825
  use with solid-state track detectors for neutrons, 22:6652 (ORNL-4168, pp 183-230)

RADIATION DETECTORS, GEIGER-MUELLER
  after pulses of, use of RI chopper for measuring, 21:36360
  afterpulses in halogen-quenched, 23:35494
  ageing of self-quenching, 22:2351
  aging phenomena of self-quenching, 23:41031
  amplifier for, design and performance of, 24:22986 (NP-18177)
  anode—cathode geometry of irregularly shaped, method for determining optimum, 24:2475
  bases for, ANSI standard, 25:26468
  calibration and testing for krypton-85 monitoring in atmosphere, 25:18638 (CONF-700816-(Vol.1), pp 143-74)
  calibration for determination of nitrogen-13 and oxygen-15 in air near electron linear accelerator, 23:31522
  calibration for determining krypton-85 content in air, immersion in standardized thallium-204 solution for, 21:39257
  calibration for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
  calibration for gamma and neutron-gamma measurements, 23:38275
  calibration for monitoring radioactive waste during disposal, 23:24427 (KURRI-TR-13)
  calibration for monitoring xenon-133 in, 25:21403
  calibration for use in sediment tracer investigations, methods for, 21:36338 (INT-48)
  calibration of ratemeter using energy-compensated, intercomparison, 25:10809 (BNWL-SA-3565)
  calibration of survey, for beta and gamma monitoring, 24:36558 (PAEC(D)-701)
  calibration of, design of uranium-238 source for, 21:39192(R) (UCRL-50007-67-1)
  characteristics of beta—gamma survey, 25:57782
  characteristics of self-quenching, effects of electrode diameters on, 24:22998
  characteristics of, automatic plotter for studying, 23:38260
  charge per pulse in organic vapor-quenched, direct method of measuring, 21:12658
  circuit design of, for afterpulse indication, 21:3304
  circuit for portable monitor, linear or logarithmic output, 24:33890
  circuit for self-quenching and non-self-quenching, design of two-transistor multivibrator, 24:490
  circuit for ultraviolet sensitive, with reverse quench voltage, 23:22047(P)
  circuit for, design of fault, 22:47338(P)
  circuit for, design of short rise time quenching, 24:4427
  circuits for pocket dosimeter using, integrating, 23:38324 (DUN-5936)
  circuits for use as rate meter, 23:9723
  circuits for, design of current-limiting, 21:16157
  circuits for, design of gamma background compensation, 21:39192(R) (UCRL-50007-67-1)
  circuits for, design of portable scaler, 22:45277 (CNEA-204)
  control and pulse selection for, use of hodoscope for, 21:6296
  count rate limits for, effects of various counter parameters on, 25:18664
  count rates of, statistical errors in, measurement of, 25:18663
  dead time as function of count rate, method for determining, 25:42095
  dead time in carbon dioxide-filled, 22:36063
  dead time of 4π, method for reduction of, 22:2342 (CEA-R-3189)
  dead time of self-quenching, 21:30718
  dead time of, corrections for, 22:23280
  dead time of, effects of bromine concentration on, 21:41212
  dead time of, method for imposing fixed, 24:31709
  dead time of, Monte Carlo method for computing, 21:12634 (NP-16409)
  dead-time measurements of, method for, 21:3293
  description for monitoring in Thorium—Uranium Recycle Facility, 23:21940 (ORNL-TM-2463)
  description of array of 18, for monitoring beta contamination of clothing, 24:31689
  description of end-window, for detection of beta particles, 21:34519 (ORNL-4091, pp 49-67)
  description of rocket-borne, for detection of auroral x radiation, 21:6188 (AD-636530)
  description with radio transmitter—receiver for continuous monitoring, 23:38335
  design and calibration of miniaturized dose rate alarm pocket dosimeter, 24:14311 (DUN-5938)
  design and operation for detection of gamma radiation for uranium prospecting, 23:35502
  design and operation for measurement of low carbon-14 activities, 25:21406
  design and operation of, 24:9643
  design and operation of low-level 4π, for tracer studies, 24:14255
  design and operation of radiosonde, for measurement of radioactivity in atmosphere, 24:14283
  design and operation of, review on, 25:10807 (AD-708922)
  design and operation of, survey on, 24:33866 (AD-702987)
  design and performance for detecting exo-electrons, 23:14020
  design and performance for measuring gamma flux and dose rate, 23:14014
  design and performance for surface monitoring of T_2O for tritium, 25:15892
  design and performance of anticoincidence-shielded system for assaying low-level beta-emitting solid samples, 22:28067 (TID-24454)
  design and performance of apparatus with lead and iron absorbers using, for meson (μ) components of EAS, 21:10617
  design and performance of gas discharge photon counters, 21:28276
  design and performance of portable survey, for gamma monitoring, 24:25271
  design and performance of position-sensitive, 25:48939
  design and performance of, for ultrahigh vacuum systems, 23:14003
  design and properties of open self-quenching, for detection of exoelectrons, 22:10557
  design for automatically monitoring radioactive depth marks on well logging cables, 25:453
  design for beta—gamma air-monitoring system, 21:43228 (ORNL-TM-1127(Rev.1))
  design for detecting radioactive contamination on surfaces, 22:43036(P)
  design for detecting ultraviolet radiation, 23:19950(P)
  design for detection of phosphorus-32 mobility in blood vessels of human intestines, 22:10829
  design for detection of photons at 8 to 14 and 44 to 60 A, 23:16099
  design for gamma dose-rate measurements at 0.1 to 1,000 mrad/hr, 23:31558 (AD-684230)
  design for gamma process monitoring, engineering drawings, 21:3325
  design for high-altitude dosimetry, 22:28181
  design for measurement of activity of beta sources by absorption method, 23:50113 (CEA-R-3782)
  design for measuring flow direction of underground water, 22:33678
  design for monitoring α particles in air, engineering drawings for, 21:36395
  design for monitoring environmental gamma doses and dose rates, 25:57721 (AECL-3989)
  design for monitoring iodine-131 and particulate fission products in stack disposal, 22:45306
  design for reactor fission product monitoring, 25:37147(P)
  design for ultraviolet radiation with minimum spurious count rate, 22:21331(P)
  design modifications for leveling response curve for gamma radiation, 22:4452(P)
  design of automatic, transistorized, portable, for monitoring nests and burrows for ecological studies, 23:2679
  design of background-compensating, 21:39263(P)
  design of β—β anticoincidence, for low-level radioisotopes, 25:23797
  design of β—γ coincidence, for low-level radioisotopes, 25:23797
  design of economical, portable, reliable, for foot monitoring, engineering drawings for, 23:14015
  design of end-window gas-flow type, for use in HIFR stack monitoring, engineering drawings for, 21:32482
  design of end-window, for detection of low-energy beta contamination, engineering drawings for, 23:11804
  design of end-window, with secured anode, 23:11770
  design of flow-monitoring, for assay of carbon-14-labeled organic compounds, 21:43232
  design of flowthrough, for 4π beta detection, 24:11782
  design of halogen, 21:39264(P)
  design of heatable, with twisted anode for detection of soft α, β, and γ radiation and measurement of exo-electron glowcurves, 23:21960
  design of improved, 25:37609(P)
  design of internally-loaded, for measuring low-level beta activity of gases, 25:8520
  design of large position-sensitive, 24:16866(P)
  design of linear log, for monitoring High Flux Isotope Reactor cooling water, engineering drawings for, 21:12678
  design of linear-log output, for monitoring gamma dose rates, 21:19902 (ORNL-TM-1764)
  design of low-voltage, 21:45431(P)
  design of miniature, for personal radiation monitor, 22:14818
  design of miniature, with aural alarm, 21:45434 (BNWL-481-4, pp 7-11)
  design of multiple-gap wide-range, 25:37610(P)
  design of organic-quenched, for measuring x radiation from television receivers, 24:39213 (BRH/DEP-70-14)
  design of portable transistorized continuous β, engineering drawings for, 21:8622
  design of portable, for gamma dose-rate measurements, 23:14052
  design of portable, for measuring beta and gamma contamination, 23:16075 (AECL-3144)
  design of position-sensitive, based on current division on resistive wire anode, 21:39231
  design of pulsed voltage, for wide energy range, 23:6296(P)
  design of rate meter, 24:4443
  design of readout system for radiochromatography, 24:5948(P)
  design of self-quenching end window-type, 23:17780
  design of shielded, for monitoring gamma radiation at Van de Graaff accelerator, 25:10824
  design of simple anticoincidence, 21:4703
  design of survey meter for emergency monitoring using, 23:47777
  design of system of, for scanning bidimensional radiochromatograms, 25:15911
  design of thin-window, with internal wire helix, 23:19958(P)
  design of ultraminiature, with audible alarm for personnel monitoring, 23:50147
  design of, compatible with UKAEA 2000 series equipment for beta and gamma detection, 23:26507 (AERE-M-1838)
  design with activable cathodes, for measurement of integrated fluxes of thermal neutrons, 22:45310
  design with anticoincidence circuits for low-level beta detection, 23:38253
  design with replaceable window for x-ray detection down to 5.5 keV, 23:31523
  design with selectable dose level alarm circuit for personnel dosimetry, 24:41696 (DUN-7027)
  design, calibration, and performance of, for measurement of argon-41 activity of Magnox reactor shield cooling air, 23:29141
  design, operation, and performance of oxygen-filled, 23:6293
  development and testing for use for personnel dosimetry, 22:21534
  development for carbon-14 tracer studies of photosynthesis in phytoplankton, 25:28867 (NYO-3993-1)
  development for incorporation in fuel examination glove boxes, 24:16738 (CONF-690910-, pp 420-34)
  development for radiometric analysis of plutonium containing wastes, 24:428
  development for ultraviolet radiation at 1050 to 2000 A, 25:21388
  development in Czechoslovakia, 21:30715
  development in Poland, review of, 25:15907
  development of multiple-anode halogen, 25:37582 (NP-18898)
  development of silver foil-wrapped, for detection of pulsed neutrons, 21:26158 (UCRL-50007-66-2, pp 12-21)
  development of sterilizable, 21:12633 (N-66-32698)
  development of, review of, 23:24420 (CEA-CONF-1232)
  discharge of, pulsed light from, (E), 23:38259
  discharge propagation in self-quenching, velocity of, 21:12651
  discharge propagation in, method for determining velocity of, 22:28114
  efficiency for beta monitoring of environmental samples, 25:2448
  efficiency for measuring carbon-14 metabolism by phytoplankton, 22:38000
  efficiency for radioactivity control measurements in water, 23:21655 (SZS-1/69)
  efficiency in gamma detection, dependence on incident angle of, 21:1616
  efficiency of, 21:1588
  efficiency of VA-Z-31, for determination of beta activity in water, 23:35466(T) (ORNL-tr-2149)
  efficiency of, used for primary productivity measurements with carbon-14 in marine and fresh waters, use of algae for determining, 23:50161
  electric discharge mechanisms of self-quenching, 21:12671
  errors in, correction of counting rate, 24:36579
  exo-electron emission in, during operation with reversed potentials, 22:16873
  failure in portable survey meters, design of circuit to minimize, 21:32481
  filters for dose rate measurements with, development of compensation, 21:30711
  gas discharge process in multiwire Charpak, 24:19197 (DESY-69/49)
  gas discharge process in multiwire Charpak, 24:41692(T) (SLAC-Trans-121)
  geometry with respect to source, system for exactly orienting, 22:28115
  model of, solid-state detector, 22:37977 (CONF-670545-, pp 17-35)
  operating characteristics of, stability of, 23:628
  operating range of halogen-quenched, count-rate, 25:4361
  operation and maintenance of dose integrating pocket alarm dosimeter using, 25:39760 (DUN-7583)
  operation and performance for detecting beta particles, 23:9699 (PHS-999-RH-32)
  operation and performance for photon detection in beam—foil spectroscopy, 25:15973
  operation and performance of self-quenching open-end, for detection of slow positive ions, 25:34898
  operation at high temperatures, preparation technique for, 22:21333(P)
  operation of halogen quenched, in reactor fuel element failure monitoring system, (E), 25:31646 (DUN-SA-136)
  operation of needle, in current mode, 21:10621
  operation of self-quenching, with heated anode, 25:2460
  operation of, calculation of current and voltage pulses in, 22:43049
  operation of, with cylindrical cathode and nonaxial wire, 21:32421
  operation with reversed potential distribution, characteristics of, 23:45533
  performance and testing of, 21:14456

performance for detecting low-level beta particles with anticoincidence scintillation detectors, 23:7739
performance for dosimetry of β particles on skin or GI tract, 21:8798 (ORNL-4007, pp 243-67)
performance for emergency field monitoring net-work system, 21:26411 (JAERI-1119)
performance for gross beta counting of environmental materials, 23:21936 (FRL-3)
performance for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance for low-level counting using beta backscatter by lead, 23:38277
performance for measurement of γ activity in atmospheric samples, 22:45563
performance for measurement of iodine radioisotopes in tap water, 22:6815
performance for monitoring environment of work areas, 22:21535
performance for monitoring x and γ radiation, effects of tube shielding on, 23:29506(R) (THAI.-AEC-21)
performance for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance for radioisotope scanning, 23:50160
performance for radioisotope scanning, 23:50159
performance for whole-body γ dosimetry of man, 22:6848
performance in counting beta activity of radioisotopes, 21:14433 (NP-16483)
performance in semi-automatic personnel radiation monitoring system, 24:31551
performance of AOH-42, 22:14785
performance of GOB-63, 21:16165
performance of halogen-quenched, use of short-lived isotopes for determination of, 21:10665
performance of large-area, thin-window, in shoe monitor for low-energy beta sources, 23:24439 (UCRL-50007-68-2, pp 63-4)
performance of Phil, for gamma dose rate measurements, 23:4839 (ORNL-TM-2334)
performance of silver foil-wrapped, for pulsed neutron detection, 24:7655 (UCRL-71731)
performance of windowless gas-flow, for reading dose from exoelectron detector, 24:27452
performance of, effects of anode current on, 21:36391
performance of, over-all correction factor for, 22:43039
performance of, research on, 22:19342
performance with external γ source for detection of effluents from gas chromatograph, 25:10888
photon spectrum from discharge of argon—alcohol, measurement of, 23:17769
photosensitivity of declining, equipment and techniques for studying, 21:32387
power supply for portable, design of high-voltage, 23:19971
power supply for portable, design of regulated high-voltage, 21:43250
power supply for, design of miniature implantable, 23:45509 (BNWL-1051(Pt.3), pp 22-5)
preamplifier for TSEE dosimeter readout, 25:18644 (ORNL-4584, pp 152-64)
properties of carbon dioxide—iodoethane-filled, 25:21405
pulse integrator for, for dosimetry, design of, 23:2678(P)
quenching circuit for, design of solid-state, 25:29334
quenching circuit for, performance of, 24:16863
quenching circuits for, design and performance of, 24:19206
quenching gas for, performance of ethanol and propionitrile as, 23:41031
radiation effects onboard spacecraft from radioisotope thermoelectric generator, 24:46557
recording system for studying characteristics of, automatic, 23:38260
recovery time of, 22:23280
resolution time of, ionic mobility and temperature effects on, 23:11811
resolving time determination of, use of barium-137m for, 21:8584
resolving time measurements using time analyzer, 25:10835
response for photons at 8 to 1250 keV, 23:17750 (LA-4052)
response of feedback-type, for pulsed radiation, (E/T), 25:42087
response of GMT 30/30 AB, for beta detection, 23:35470
response to gamma radiation from radioisotope thermoelectric generators, 25:4349
response to rf radiation, 25:23932 (BRH/DEP-70-26, pp 173-81)
responses of Explorer 30, in radiation belts, anomalous, (E), 23:25204
sample rotation system for gamma-ray analysis by, of chromium-51 and iron-59 content of human feces, 23:2582
sensitivity for determination of beta-emitting radioisotopes in liquids, 22:19116
sensitivity for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
sensitivity for gamma dose as function of energy, 21:26172
sensitivity for gamma dosimetry in Operation HENRE, 22:6652 (ORNL-4168, pp 183-230)
sensitivity for radioactivity monitoring of water, 25:34870 (SZS-2/71, pp 12-22)
sensitivity measurements for radiobiological studies, 25:2432 (AD-706587)
sensitivity of end-window beta, to alpha and gamma radiation, 24:489
sensitivity of, angular dependence of, 21:17840
signal resistor for, selection of, 21:34472 (ORNL-4091, pp 38-48)
spatial resolution of parallel-wire, for gamma radiation, 23:41011
specifications for compatibility with CD-V-700 survey meters, 21:34517 (ORNL-4091, pp 22-35)
stability of, theory of, 24:27323 (AD-471483)
telemetering system for cyclotron personnel dosimetry, 24:44244 (CONF-691101-, pp 746-9)
test procedure for, standard, 25:42057
testing of, development of equipment for, 23:16090 (ORNL-4335, pp 2-11)
threshold oscillations in bromine-quenched, 23:43532
use as coincidence trigger for scintillation beta spectrometer, 23:6309
use as position indicator for pulsed charged particle beams, 21:45369 (NP-16896)
use for detection of molybdenum-99 content in technetium-99, 21:43473
use for detection of strontium-90—yttrium-90 on surfaces, 21:36609
use for determination of dose intensity of an x-ray beam, 23:14216
use for measurement of continuous radionuclide uptake by periphyton in cycling system, 21:28341 (BNWL-SA-1254)
use for reading thermally excited exoelectron emission dosimeters, 23:7817 (CONF-680920-, pp 200-19)
use for registration of 0.3- to 3.0-keV ions, 21:12652
use for satellite measurements of solar x radiation, 21:8617
use in balances with radioisotope sensing elements, 22:4493
use in beta backscatter gage for radioactive materials, 21:43294 (Y-DA-1582)
use in beta—gamma personnel monitoring bridge, 23:726
use in coincidence spectrometers for analyzing low-level radioisotopes, 23:11782
use in determining tritium content in water, 21:3178
use in equipment to determine interface between two fluids, 21:8634(P)
use in gamma dosimeters with storage for preset alarm and continuous readout, 21:1569 (UCRL-14925-T)
use in gas chromatography, 21:16204
use in large dose regions, statistical problems connected with, 21:28265
use in linear count rate meters for aerial surveying, 21:32483
use in measurement of thermoelectric emission from metal surfaces, 21:22135
use in monitoring iodine-131 in gas disposal stacks, calibration of, 21:10608 (ORNL-TM-1710)
use in monitoring reactor operations, statistics for, 23:500 (IA-1174)
use in multidecade hybrid survey meter with ionization chamber for gamma dose-rate measurements, 23:636
use in portable beta—gamma foot monitor, 23:4828
use in radiometric equipment for wear detection, 21:22108
use in well logging, 21:3334
use of compensated internal gas, for preparation of standard gaseous radiation sources, 22:16771 (CEA-R-3365)
use of halogen-filled, in measurement of dose rates from 0 to 3 mR/hr, 21:16209
use of halogen-type, in mobile air monitor, 21:6200 (ORNL-TM-1668)
use of hodoscopic array of, for cosmic shower particle density measurement, 21:10612
use of miniature, for measurement of phosphorus-32 uptake by rectal neoplasms, 21:18100
use of, in aircraft fuel gaging system, 21:12598
use of, in aircraft oil-quantity gaging system, 21:12596
use of, in civil defense, comparison of, with use of dosimeters, 21:8838
use with tracers to determine flow direction of underground waters, (E), 21:32265 (IFA-MR-27)
windows for, preparation of mylar, 22:45321
windows for, preparation of thin film, 23:24440 (UJV-2148-F)

RADIATION DETECTORS, IONIZATION CHAMBER
accuracy for calibration of x-ray equipment for biological studies, 23:26797
adjustment and control of, device for, 22:30823 (RISO-M-678)
afterpulses in carbon dioxide, time distribution analysis of, (E/T), 21:1601
air equivalence of chamber materials of, pressure effects on, 25:42091
ammeter for, design of portable, 25:26459
amplifier for gamma-compensated, used for monitoring reactor power, 22:43029 (ORNL-TM-1638(Pt.36))
amplifier for segmented, 25:57757(P)
amplifier for, design and performance of, 24:22986 (NP-18177)
amplifier for, insulated-gate FET, 23:7732 (EEMTIC-67-2-2)
amplifier for, maintenance manual for low-level dc, 21:36341 (ORNL-TM-1638(Pt.2))
amplifier for, used in neutron flux measurements, 23:29161
amplifiers for, design of logarithmic, 23:35478(P)
amplifiers for, design of low-level, 25:55071 (CEA-N-1433)
amplifiers for, design of shunt-series nanosecond, 21:17234
analog signals from, neutron flux measurements from statistical fluctuations in, 21:6218
background characteristics of shielded and nonshielded, 21:6240
beta absorption in windows of, corrections in absolute activity measurements for, 21:32379(T) (AEC-tr-6719, pp 90-2)
cable for in-core, for neutron monitoring, mineral-insulated coaxial, 25:6530 (AEEW-R-698)
cables for in-core, vacuum processing of magnesia-insulated, 24:27324 (AEEW-M-959)
calculations for high-energy proton energy measurements in iron-absorber, nuclear—electromagnetic cascade, 24:29577
calibration and field use of survey, 24:9633 (BNWL-SA-2096)
calibration and operation for nuclear heating measurements, 25:37577 (CEA-R-4195)
calibration and performance for measuring radon concentration in mine atmospheres, 23:22052
calibration and testing for krypton-85 monitoring in atmosphere, 25:18638 (CONF-700816-(Vol.1), pp 143-74)
calibration and use of boron trifluoride, for measurement of mean energy of neutrons, 25:34906
calibration for dosimetry of natural background radiation, 25:2448
calibration for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
calibration for high-energy γ and x-ray dosimetry, C/sub lambda/, 25:39870
calibration for monitoring bremsstrahlung beams, constants and ion collection efficiencies for, 25:42083
calibration of, 22:38717(R) (COO-323-17)
calibration of 1383A, for iodine-132, 23:2621
calibration of 1383A, for isomeric strontium-87, 23:2584
calibration of 4π, for gamma detection, 23:19966
calibration of air-filled, at 1000 to 4000 ft in the atmosphere, (E), 24:5048 (N-69-34536)
calibration of ASTRA fast neutron radiation target can, 23:52425
calibration of ATR, method for, 22:33071
calibration of B and W Critical Experiment Laboratory multi-rod critical assembly, description of, 22:32740(R) (BAW-3647-7)
calibration of Bonner ball boron trifluoride, for neutron detection, 25:42055 (ORNL-TM-3465)
calibration of cavity, absorbed dose conversion factor for, 25:21452
calibration of Cutie Pie, intercomparison, 25:10809 (BNWL-SA-3565)
calibration of Farmer—Baldwin, by chemical dosimetry, 23:22100
calibration of graphite wall and polyethylene wall gas-filled, description of, 22:35602 (N-68-10291)
calibration of large flow-through, for monitoring reactor effluent gas from stack disposal, 23:13985 (KURRI-TR-5)
calibration of proton-recoil, ionization measurements for, 25:46620 (IN-1407, pp 83-95)
calibration of proton-recoil, using resonance filters, 25:39727
calibration of SNM-15, for zero level, (E), 24:14252
calibration of spherical proton-recoil, 21:40564(R) (NAA-SR-12395)
calibration of survey, for beta and gamma monitoring, 24:36558 (PAEC(D)-701)
calibration of thimble, at 5 to 30 MeV, absorbed electron dose, 22:19118
calibration of thin-walled, for low-energy x-ray dosimetry, 24:48331
calibration of tissue-equivalent, for neutron dosimetry, 23:43605(R) (NYO-3510-10)
calibration of type 1383A, for determination of radioisotopes in solution, 25:13221
calibration of well-type, for determination of radioisotope gamma activities, 23:29190
calibration of, for internal beta-active gas counting, 23:11793
calibration of, mean mass stopping power calculations for gamma and x rays for, 25:42085
calibration of, methods for, 21:1658
calibration to 100 MW of Fermi Fast Breeder Reactor, description of, 22:30120 (APDA-NTS-17)
cathode pulses from gridded, use for alpha—gamma angular correlations, 22:23282
cavity theory for energy deposition, Bragg—Gray, 25:42166
characteristics and use for dosimetry, 23:47862
characteristics and use of liquid dielectric, 23:43557
characteristics for assessment of radiation dose to skin, 22:37994 (RD/B/N-1107)
characteristics for personnel monitoring, 25:29383 (JAERI-Memo-4292)
characteristics of cutie pie, for beta—gamma dosimetry, 25:57782
characteristics of dielectric liquid, gamma ray convergence point, 24:44287
characteristics of tissue-equivalent, 23:47771
charge collection efficiency of pocket, for dosimetry in pulsed radiation field, 21:39192(R) (UCRL-50007-67-1)
charge collection efficiency of, effects of various parameters on, 24:39215 (CEA-R-3844)
charge multiplication in liquid-filled wire, 25:51855 (JINR-P13-5838)
circuit for charge collection and measurement from, design of logarithmic, 24:23001(P)
circuit for liquid argon, for meson (π^-) spectroscopy, 25:13211 (JINR-P13-5402)
circuit for neutron flux monitoring, Campbell type, 25:15883 (CEA-R-4119)
circuit for survey meter, solid-state, 22:21315 (ORNL-4219, pp 36-46)
circuits for Campbelling measurements, γ discrimination and sensitivities of averaging and rms type, 22:28084
circuits for coupling out of pulses from, description of, 25:34914(P)
circuits for integral-signal determination of dose equivalent, 25:23857 (JINR-P16-5525)
circuits for neutron detection, analysis of Campbell, 24:39269
circuits for portable, criteria for MOSFET, 22:21311 (CLOR-67/D)
circuits for, design of AC, 23:652(P)
comparison with liquid scintillation counter, 22:51665
connectors for noise suppression for neutron detection, 24:46466 (CEA-N-1353)
count rate limits for, effects of various counter parameters on, 25:18664
count rates of, statistical errors in, measurement of, 25:18663

counting losses in, effect of field reduction at ends on, 21:32381(T) (AEC-tr-6719, pp 100-2)
counting rate and optimal dimensions for measuring concentration of beta-active gases, calculation of, 22: 45285
current amplifiers and ratio meter for, used for measuring x-ray dose distribution, 22:25680
current converter for, design of dc to dc, 21:32479
current density and initial resistance of liquid-filled, properties of, 24:14279
current integrators for, design of, 21:16144 (ORNL-TM-1765)
current integrators for, design of, 22:28131(P)
current measurements in, for determining exposure rates at 10 mR/hr to 15 kR/hr, 23:611 (CEA-R-3584)
current measurements in, statistical methods for, 21: 3284
current output of, design of MOSFET current-to-frequency converter for measurement of, 25:57894
current variations from, neutron flux determination in reactors from, 22:25638
currents due to electrode contact potential difference in, 24:27381
description for beta—gamma calibration, 24:50574
description for dosimetry of particles above 300 MeV, 25:23868
description for monitoring Brookhaven AGS ring, 24: 3795 (BNL-14107)
description for personnel dosimetry, 24:36626 (STI/DOC-10/109)
description for pocket alarm monitor, 23:29185
description for studying effect of pressure on ionization in pure rare gases, 24:27331 (ANL-7615, pp 228-9)
description of Campbell systems for reactor control system measurements, 23:24037
description of coaxial reflection, for monitoring beam losses in CERN synchrotron, 22:14795
description of condenser, for personnel monitoring, 23: 47773
description of flowthrough, for measuring carbon-14-labeled substrate oxidation to carbon dioxide by isolated tissues, 23:17779
description of Garigliano Power Reactor core monitoring, 23:11115 (GEAP-5645)
description of gas-discharge, for neutron detection, 25: 51871(P)
description of high-vacuum, 24:39232
description of improved reactor in-core high temperature, 23:22034
description of improved, for in-pile neutron flux measurements, 23:2042
description of microminiaturized, for study of hormone dependence of phosphorus-32 uptake in human tumors, 23:29183
description of portable, for personnel monitoring, 24: 31690
description of system for monitoring x-ray beams, 24: 5895
description of transistorized, 21:34519 (ORNL-4091, pp 49-67)
description of, for personnel dosimetry, 25:55051(P)
design and calibration of fast-pulse, for muon flux measurements, 25:35022
design and calibration of pair of, for dosimetry of mixed gamma radiation and fast neutrons, 25:42168
design and fabrication of, for checking output of x-ray therapy machines, 23:657
design and operation of, 23:38317
design and operation of low-level Oeschger-type, 22: 6576
design and operation of low-level quartz tube, 22:6576
design and operation of, for flue—gas indicator, 21:4705
design and operation of, for measuring radon content of waters at Bad Brambach, Germany, 24:16697
design and performance for californium-252 neutron dosimetry, 25:8677 (NYO-2740-7, pp 5-51)
design and performance for continuous measurement of near-ground atmospheric natural radioactivity, 23:9724
design and performance for dosimetry of betatron bremsstrahlung, 24:27456
design and performance for measuring ionization rate in upper atmosphere, 21:1558(R) (AD-634299)
design and performance of balloon-borne three-chamber, for stratospheric LET spectra measurements, 24:44251 (EUR-4452, pp 343-62)
design and performance of boron trifluoride, for neutron detection in high gamma fluxes, 22:36051(P)
design and performance of boron-coated, for measuring thermal neutron flux, 22:49066 (AERE-R-5800)
design and performance of corona-discharge, 21:45397
design and performance of double-grid, for low-level alpha spectroscopy, 25:2476
design and performance of extrapolation, for measurement of dose distributions at bone—tissue interfaces, 25:57851
design and performance of flow-through, for detecting tritiated water vapor in atmosphere around EL 3 reactor, 23:7729 (CEA-R-3617)
design and performance of gamma, 21:332
design and performance of gas discharge photon counters, 21:28276
design and performance of gridded, for angle information, 25:10837
design and performance of helium-3-filled gridded, for high-resolution fast neutron spectroscopy, 23:35510
design and performance of helium-3-filled, for detection of thermal neutrons, 23:6285 (RT/EL-(67)15, pp 77-96)
design and performance of hexane-filled, 24:27341 (CONF-690540-, pp 505-9)
design and performance of high-sensitivity alpha spectrometer, for analysis of samples with low specific activity, 23:35513
design and performance of integrating-type, for radiation detection aboard OGO-I and III satellites, 22:43041
design and performance of large-area parallel-plate, for identification of heavy cosmic nuclei, 25:49003
design and performance of leak-proof argon, 21:4709
design and performance of miniature tissue-equivalent, for pulsed neutron dosimetry, 23:31560 (AD-684824)
design and performance of multilayer, with common central collector, 24:27365
design and performance of multiwire boron trifluoride, for neutron detection, 24:11762 (BARC-440)
design and performance of paired, for simultaneous neutron and gamma dosimetry, 25:26538
design and performance of parallel plate air, for beta and gamma detection, 25:48933
design and performance of parallel-electrode tissue-equivalent, for determining ionization density distribution in tissues, 23:20080 (CERN-69-1)
design and performance of portable, for gamma dosimetry, 22:30867 (ORNL-TM-2145)
design and performance of portable, for gamma- and x-ray dose rate measurements, 21:34474 (SFL-A-10)
design and performance of portable, for monitoring tritium in atmosphere, 23:16084 (DPSPU-68-11-4)
design and performance of portable, for tritium monitoring on surfaces, 24:39216 (CLOR-79/D)
design and performance of position-sensitive, 23:11807
design and performance of remote-reading, for monitoring in shelters, 21:17819(R) (ORNL-TM-1768)
design and performance of satellite-borne, for detection of soft solar x radiation, 24:4423 (LA-4251)
design and performance of satellite-borne, for detection of solar Lyman-α radiation, 24:4423 (LA-4251)
design and performance of tissue-equivalent filled, for dosimetry of photons, 22:14863
design and performance of wide-range, 21:28255
design and performance of xenon-filled total absorption, for 1.5- to 10-keV gamma rays, 25:48942
design and performance of, book on, 21:1618
design and performance of, for detection of strong vacuum ultraviolet radiation, 23:11767
design and performance of, for measuring x rays, 21: 6506
design and performance of, for personnel dosimetry, 23: 20006 (CONF-680507-, pp 237-42)
design and properties of VA-Z-261 and 262, for beta and gamma dosimetry, 23:20012
design and use for neutron measurements in gamma fields, 21:30128 (CONF-660206, pp 413-38)
design and use of differential recombination, for determining quality factor of mixed radiation, 21: 43237
design and use of Kawano-type, for measuring natural radioactivity in Japanese ground-level atmosphere, 23: 24318
design and use of portable, for measuring environmental gamma dose to populations, 22:2383
design for background gamma dose measurements, 23: 40984 (CLOR-73/D)
design for bulk assay of mCi amounts of radiopharmaceuticals, 25:18723
design for detecting tritium in air, 21:14419 (AECL-2604)
design for determination of airborne radon-222 decay products, 25:23791
design for gamma and neutron flux measurement in reactors, 21:1638(P)
design for gamma exposure rate measurements, 23: 43517 (CONF-681063-, Paper 2.5)
design for gamma monitoring system, 21:43228 (ORNL-TM-1127(Rev.1))
design for identification of beta, gamma, and x radiation, 23:4809(P)
design for improved temperature stability, 22:47341(P)
design for ionization studies in gases at high temperature, 25:48904(R) (COO-323-18)
design for low-level monitoring, 23:38251(P)
design for low-level monitoring, 23:41012(P)
design for measurement of naturally occurring α radioactivity in biological materials, 22:2517
design for measuring alpha surface contamination of fuel elements, 24:36586(P)
design for measuring gamma dose rate, 21:45435 (BNWL-481-4, pp 16-23)
design for measuring humidity, 21:12682(P)
design for measuring ionization as function of pressure in alpha reactions with rare gases, 24:31677 (ANL-7489, pp 100-1)
design for measuring small differences in dose rates at points in radiation beam, 25:51916
design for monitoring contamination on floors, 23:21942 (SZS-16/68)
design for monitoring low-level radon in atmosphere, 24: 36588
design for monitoring tritium in stack effluents, 25: 48906 (UCRL-73295)
design for neutron current density measurement, 21: 28275(P)
design for neutron dosimetry, 21:28591(R) (NYO-2740-4)
design for neutron dosimetry, tissue-equivalent, 21: 43280
design for neutron flux measurements, 23:19965(P)
design for neutron flux measurements in reactors, 22: 12568 (AEEW-M-492)
design for personnel dosimetry of beta, gamma, and x radiation, 22:49129(P)
design for radial dosimetry of protons incident on hydrogen ion tracks, 22:4600 (BNL-11877)
design for safety monitoring in radiotherapy room, 23: 29154
design for transfer of NBS absolute calibration for determination of total amount of energy transported by high-energy x-ray beams, 21:19955
design for tritium stack monitoring, engineering drawings for, 25:51869
design for use at high temperature, 22:30827(P)
design for use in high γ radiation fields, 24:33284
design for use in reactor environment, 23:19963(P)
design for use in smoke detection, 21:4745
design of $4\pi\gamma$, for measuring iodine-125 activity from 10μCi to 0.1 Ci, 21:39233
design of absorber-incorporated, for measuring Moessbauer spectra based on conversion electron detection, 23:21949
design of air-filled, for standardization of cesium-137 and cobalt-60, 23:2575
design of air-flow, for continuous tritium monitoring in chemical laboratories, 23:13979 (CEA-CONF-1167)
design of aluminum thimble, for dose rates up to 10^4 R/s, 24:29590
design of array of isolated miniature, with high detection sensitivity and spatial resolution, 23:14004(P)
design of assembly of, for monitoring environmental radiation, 22:2382
design of beta microprobe, for diagnosis of neoplasms in lungs, 24:50576
design of boron trifluoride, for neutron detection, 25: 55014(P)
design of boron trifluoride, for neutron detection at high temperature, 22:38014(P)
design of boron, with nonboron compensating counter for measuring neutron flux, 23:6300(P)
design of boron-10 coated parallel plate neutron-sensitive, for use in reactor control, engineering drawings for, 21:8621
design of boron-10 trifluoride filled, for measuring neutron dose equivalent rate in pulsed and steady-state fields, 21:1620
design of boron-coated, for neutron detection, 22: 16890(P)
design of cavity-type, air-equivalent properties of Teflon—carbon mixture for, 25:57861
design of cloud-chamber—, for measuring cosmic proton and pion interactions in light materials above 140 GeV, 21:30725
design of compensated helium-3, for in-core neutron flux monitoring, 25:18662
design of compensated, parallel-plate, boron trifluoride, for measuring neutron flux, 23:33390(P)
design of corona, in spherical Plexiglas moderator for intermediate neutron detection, 25:32227
design of dielectric liquid, for electron depth dose distribution measurements in Plexiglas, 24:44253 (EUR-4452, pp 437-53)
design of differential, 24:9663(P)
design of differential recombination, 21:17818 (INR-739/XIX/D)
design of double, for detection and measurement of fission fragments, 24:11784
design of energy-dependent, 21:39267(P)
design of extrapolation, for calibration of beta sources for therapy, 24:11777
design of extrapolation, for neutron depth dose distributions in heterogeneous phantoms, 25:32415 (ORNL-TM-3329)
design of flow, for low-level radiation, 25:21401(P)
design of flow-through for measuring ion content of gases, 23:6299(P)
design of flowthrough, for measuring ionization cross sections of gases, 23:17760
design of flowthrough, with internal radiation source for detecting impurities in gases, 22:23356(P)
design of flowthrough, with internal standard radiation source for gas analysis, 22:28207 (NP-17355)
design of flowthrough, with screen window, 25:57756(P)
design of Freon-12, for soft sea-level electrons, 21:1458 (TID-23366)
design of gamma-compensated, for detection of neutrons in mixed radiation field, 21:22167(P)
design of gamma-compensated, for detection of neutrons in reactors, 23:24449
design of Garigliano Power Reactor moveable, 22:48645 (GEAP-5623)
design of gas-recoil, for eliminating effects of wide-angles in neutron spectroscopy, 25:37640(P)
design of gas-tight integral sample-changing, 21: 12683(P)
design of Gaussian quantameter with constant sensitivity at 5 MeV to 5 GeV, 24:35773
design of general purpose, engineering drawings for, 23: 16126
design of grid, for alpha spectroscopy, 24:27385(T) (LA-4243-TR)
design of grid, for alpha spectroscopy, 23:6303 (CEA-R-3566)
design of gridded, for alpha spectroscopy, 22:8374
design of gridded, for spectra measurements in alpha decay of beryllium-8, 25:8513
design of high-dose-rate ionization, 25:39769
design of high-sensitivity, using boron-10 enriched boron trifluoride gas, 21:39266(P)
design of high-sensitivity, using boron-10 enriched boron carbide electrode, 21:39266(P)
design of high-speed, for fission fragments, 24:27364
design of high-transmission parallel plate, for measuring ion mobility in gases, 25:10903
design of high-voltage, for gamma and neutron flux measurement, 21:39261(P)
design of improved flowthrough, 24:33902(P)
design of in-core, for neutron flux measurements in boiling water reactors, 25:8061
design of inflated balloon, for low-energy, low-level, x-ray exposure measurements, 22:40380
design of integrating pulse discharge, for gamma and mixed-field radiation, 21:4684 (BNL-9593)
design of large-area, for beta detection, 23:11792
design of magnesium wall, for fast neutron and γ dosimetry, 24:16894
design of MERIC, for gamma- and x-ray dosimetry, 21: 41284
design of miniature end-window, for low-level beta detection, 25:8521
design of miniature parallel-plate, 21:45432(P)
design of multiplate, with gamma compensation and guard-ring electrodes, 22:38021(P)

design of muscle-equivalent, for radiation dose measurements, 22:2380
design of open-air, with walls of soft-tissue equivalent material for gamma dosimetry, 23:2552 (CEA-R-3540)
design of open-point, for detecting low-level beta particles, 22:36054
design of pocket dosimeter, 25:34893(P)
design of pocket, with audible alarm, 25:4360
design of pocket, with both optic and acoustic alarm, 25:2445
design of portable tissue-equivalent, for dosimetry, 24:25274
design of portable, for dosimetry of high-energy electrons and x rays, 25:32263
design of portable, for gamma and x rays, 25:37611(P)
design of portable, for monitoring tritium in atmosphere, engineering drawings for, 23:29174
design of portable, with alarm system, 24:48271
design of position-sensitive, 22:47350
design of position-sensitive, 25:51867(P)
design of position-sensitive, using risetime measurement, 22:47351
design of position-sensitive, using time reference pickup electrode, 24:48274(P)
design of pressure regulating, 21:28273(P)
design of pulsed, for recording fission fragments in high alpha background, 21:293
design of quartz-fiber personnel, standard for, 25:57830
design of release, for measuring gamma dose rates with reduced energy dependence, 23:7873(T) (NP-tr-1720)
design of resonant gamma, for detecting Moessbauer effect in tin-119, 22:47330
design of secondary standard, 24:36632
design of self-calibrating, 25:23807(P)
design of self-calibrating, with integral electron source, 21:24230(P)
design of sensitive fast-recovery, 23:19959(P)
design of soft tissue-equivalent, for dosimetry of low energy photons, 23:16161 (CEA-CONF-1088)
design of standard free-air, for x-rays at 50 to 500 keV, 25:26469
design of system for monitoring radioactive fallout, 23:43513 (AD-687868)
design of thin-wall, for low-level radiation environment, 22:2378
design of tissue equivalent filling of dielectric liquids for, 23:26552
design of tissue-equivalent, 23:2626(P)
design of tissue-equivalent plastic, providing long-term sensitivity stability, 22:49326 (NYO-2740-5, pp 6-200)
design of tissue-equivalent, for beta particles and photons, 22:23339(P)
design of tissue-equivalent, for high-altitude dosimetry, 22:28181
design of tissue-equivalent, for rem dose rate measurements, 25:8562 (CERN/DI/HP-29)
design of total absorption, for x rays at 1.5 to 10 keV, 25:32215 (LA-4568)
design of transistorized, engineering drawings for, 21:32478
design of two-piece pocket, 23:7879(P)
design of universal high-stability, with internal radiation source for use in gas chromatography, 25:32209 (INP-737)
design of universal portable, for dosimetry, 25:55052
design of uranium-235 coated, parallel plate, for use in reactor control, engineering drawings for, 21:8621
design of well-type, for determining radioisotope activity in liquid samples, 22:36041
design optimization of, calculations for gas pressure—window thickness for, 23:45514
design with air-equivalent walls for dosimetry of 10- to 200-keV x rays, 23:11843
design with electrometer readout for dosimetry, 24:46525(P)
design with integral radiation source, for determining gaseous impurities in gases, 23:712(P)
design with integral switches for pulse reading, 23:11752 (BNWL-481-2, pp 155-200)
design with internal beta source for detection of combustion products, 25:23887(P)
design with ionization detector for mixed gamma—neutron dosimetry, 25:452(P)
design with MOSFET electrometer for dose rate or dose measurements, 24:33872
design with nickel-63 source for electron-capture gas chromatography, 24:46526 (INP-700)
design with polyethylene walls for dosimetry of 14-MeV neutrons, 25:51889
design, fabrication, and performance of, for gamma detection at 500°C ambient temperature, 23.2554 (EUR-4046)
design, operation, and performance in space environment, 21:6257
design, operation, and uses of, 21:12645(T) (AD-643601)
development and operation of gas multiplication, 23:47734 (NYO-2740-6, pp 6-31)
development and operation of portable rem detector, 24:31745
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development for beta spectroscopy, 23:6301 (CEA-R-3293)
development for calibration of cesium-137 and cobalt-60 gamma sources, 24:16839(T) (UCRL-Trans-10427)
development for dosimetry, 25:8482 (NYO-2740-7, pp 112-53)
development for gamma and neutron dosimetry, 23:14044 (CEA-CONF-1068)
development for measuring alpha contamination on reactor fuel element surfaces, 25:18636(P)
development for measuring total integrated dose, 25:18805(P)
development for monitoring stack effluents, 24:25262 (UCRL-50007-69-3, pp 9-10)
development for ultraviolet radiation at 1050 to 2000 A, 25:21388
development for use in chemical analysis, 24:27002
development for use in dosimeters, 21:28283
development for use in fast neutron dosimetry, 22:498(T) (NP-tr-1575)
development for use in LET spectrometer for calibration of Concorde SST aircraft radiation rate meters, 23:50172 (AWRE-O-57/69)
development for vibrating condensor electrometer for beta dose rate measurements, 21:28281 (ZFK-DOS-5)
development of analog, for reactivity measurements, 25:26014 (ANL-7700)
development of array of, for high spatial resolution, 25:18682(P)
development of boron coated, for power reactor in-core neutron monitoring, 25:57025
development of boron, for thermal neutron detection, survey of, 23:6283 (CEA-R-3408)
development of compensated, for NERVA, 22:12679 (ANL-7380, pp 161-3)
development of extrapolation, for measuring dose distribution in phantoms, 25:18644 (ORNL-4584, pp 152-64)
development of heptane- and hexane-filled, for detection of alpha and beta particles, 25:26471
development of high-energy particle and radiation balanced, 21:3311(P)
development of high-temperature, for detecting low-level plutonium contamination, 21:10640
development of Kanne, for tritium monitoring in atmosphere, 22:36030 (DPSPU-67-30-1)
development of liquid-argon, for alpha detection, 25:48948
development of liquid-filled, for gamma and α-ray dosimetry, 25:26531
development of liquid-filled, for medical dosimetry, 25:26530
development of liquid-filled, for quality factor measurements of mixed radiation, 23:45517
development of LMFBR, description of, 23:2014 (WASH-1104)
development of parallel plate, for fission fragments, 24:29533
development of proton-recoil, for delayed neutron spectroscopy, 24:48302(R) (RLO-2225-T-17-1)
development of three-electrode, for small-angle x-ray diffraction studies, 24:2441 (CEA-CONF-1294)
development of tissue-equivalent, 21:22172
development of tissue-equivalent, with quartz fiber electrometer, 25:4330
development of two-piece portable, 21:22168(P)
development of, for reactor control system, 21:13973(R) (GEAP-4900)
development of, review of, 22:43126
dielectrics for, linear energy transfer of gamma radiation and neutrons in liquid, 22:16879
dielectrics for, linear energy transfer of gamma radiation and neutrons in liquid, 22:30824(T) (SLAC-Trans-81)
dimensions of xenon- and methane-filled, determination of polarization of weak 10-keV x-ray beams from optimization of, 22:25673
distribution of ionization induced by γ or neutrons in, 21:8796 (ORNL-4007, pp 171-210)
dose calibration of thimble, in water phantoms for 30-MV x rays, 22:380
dose rate in cavity, effect of thin air-equivalent layers on pressure dependence of mean, 22:38113
dosimetry of walls of, use of phantoms for, 22:43329
effects of gas-filled boron trifluoride, on neutron statistical fluctuations, 21:12673
efficiency and response of large-area, for whole-body counting, 25:57772
efficiency for personnel radiation monitoring, 22:28113
efficiency for radioactive dust measurements, 22:2233
efficiency for tritium counting, 22:42586 (CEA-R-3348)
efficiency of CC5, method of measuring, 22:16272 (CEA-R-3326)
efficiency of hexane-filled, for detection of gamma and x radiation at 0.018 to 1.25 MeV, 21:45426
efficiency of recoil proton, for detecting fast neutrons, calculation of, 23:7754
electric breakdown protection circuits for, 23:47738 (NYO-2740-6, pp 199-206)
electric charge in, method for measuring, 24:41713(P)
electric charging device for direct-reading, design of piezoelectric, 23:50187(P)
electric currents in liquid, for dosimetry, factors affecting, 24:23024 (NP-18105)
electrometer design for, according to Farmer principle, 21:39191 (SZS-9/67)
electrometer design for, for detection of radiation fields of 1.0 to 5,000 mR/hr, 21:45345(R) (IDO-17234)
electrometers for standard, comparison of, 25:15904
electron motion in, pulsed method for measuring, 23:45515
electron scattering in, dosimetry errors due to, 22:47386
electron slowdown in multiplate Monte Carlo calculation of, 25:4322 (NP-18433)
electron transport in tissue-equivalent, 25:8482 (NYO-2740-7, pp 112-53)
energy absorption and ionization in aluminum-walled, from 100-keV x rays, 22:38049
evaluation for Savannah River Plant environs monitoring, 22:2245
fabrication and operation of variable-spacing parallel-plate, for beta dose rate measurements, 23:50114 (CLOR-74)
fabrication for x-ray dosimetry, graphite-polyethylene materials for, 21:10676(T) (AD-640298)
fabrication of low-cost cavity, 21:45395
fabrication of sealed, for monitoring x radiation, 23:658
fabrication using beryllium for neutron detection, 23:35456 (AERE-M-2193)
filling gas for beta—gamma, development of diethylamine—xenon, 25:37601(P)
gamma absorption in walls of, correction coefficients for, 23:14009
gas flow in, input and output ratio of radioactive, (E), 21:311
gas fluctuation coefficient in, minimization of, 22:6614
gas ionization in, measurement of W-values for photon-induced, 23:47737 (NYO-2740-6, pp 136-42)
gas mixture for, tissue-equivalent, 22:4450(P)
gas multiplication in air-filled, 23:26553
ion concentration in, effects of electric field on, 23:17475
ion distribution and diffusion losses in plane parallel, correction for, (T), 21:14978
ion recombination errors in standard parallel-plate free-air, calculation of, 23:38276
ion recombination in Farmer thimble, irradiated with pulsed electrons, 23:38267
ion recombination in parallel-plate free-air, 21:45388
ion recombination in, equation for, 24:7635
ion-ion recombination measurements in oxygen—nitrogen mixtures, (E), 21:14977
ionization and ion pair production in, mass spectrometric method for determining cross sections for, 22:43075
ionization currents in hexane-filled, temperature and electric field dependence of α- and β-induced, 22:51239
ionization currents in liquid, 25:26472
ionization currents in low-conductivity liquid, 1-MeV electron-induced, 24:25267
ionization currents in, statistical errors and time behavior in measuring, 21:19930
ionization defect of acetylene—argon mixtures in, for fission-fragment energy measurements, 21:10614
ionization fluctuations and resolution of argon—0.5 percent acetylene-filled, calculation of Fano factor for determining, 21:10659
ionization mechanism of permanent gases in argon in, for use in gas chromatography, 21:25794
light emission from electron avalanches in binary mixtures of xenon, 24:46467 (CEA-R-3967)
location in Fermi reactor, neutron flux mapping measurements for, 21:12118 (APDA-NTS-8)
maintenance of Babyline-20, for beta and gamma dosimetry, 25:35025 (CEA-N-1435)
maintenance of Garigliano Power Reactor, description of, 22:22713(R) (TID-24304)
material for construction of air-equivalent cavity, Teflon—carbon, 25:32273 (CEA-R-4173)
materials for cavity, review of stopping powers of, (E/T), 25:26533
materials for, study of air- and tissue-equivalence of, 24:50634 (CEA-R-4049)
modification of pool reactor γ-compensated, low-range performance improvement by, 22:53452
modulation transfer functions of, for γ and x dosimetry in air and phantoms, 23:11869
mounting assembly for, design of, 22:12594(P)
multiplicity yield function of IGY neutron monitor, (E), 25:43175
neon flash tubes with digitized data output for, design of, 23:17773
neutron energy loss and dE/dx in spherical cavity, computer program for calculating, 23:2661 (ANL-7454)
noise analysis of corona-discharge, 21:45397
operation and performance for reactor neutron detection and measurement, 23:38246 (KAPL-M-6961)
operation and performance for standardization of gamma and x-ray doses at 0.6 to 50 MeV, 24:31737 (ICRU-14)
operation and performance of boron-coated, for in-core neutron flux measurements using cross-correlation method, 24:2476
operation and performance of double-pulse, for nuclear reaction products, 21:41220
operation and performance of halogen-quenched, 22:47333
operation and uses of liquid, 25:57778
operation for determining power output of reactors, 23:43213(P)
operation in synchronization with spark chambers for studying cosmic-induced nuclear reactions, 23:31553
operation of, 23:50131
operation of electron capture, with tritium beta source, 24:48340
operation of movable, in Garigliano reactor, 21:1163(R) (GEAP-5190)
operation of, system for ac, 21:41272(P)
operation of, theory of, 21:39196
particle tracks in scintillation, angular measurements of fission fragment, 23:11852
performance analysis of lower limit of detectability and accuracy of remote-area arrays of, for close-in monitoring of underground nuclear explosions, 23:31564 (UCRL-50007-68-3, pp 12-17)
performance as dosimeters, 21:22175
performance as standard for dosimetry of high energy electrons, 22:28480
performance characteristics for experiments on OGO-I and OGO-III satellites, 21:8582 (NP-16424)
performance characteristics of gamma-compensated neutron, for NERVA reactor control system, 22:28085
performance for 23-MeV electron beam, comparison of photographic film with, 25:42411
performance for absolute measurements of photons at 1 MeV, international comparison of, 24:46519
performance for absorbed dose calibration of electron and x-ray sources, 25:51917
performance for bremsstrahlung dosimetry in tissues, phantom studies on, 22:51618
performance for calibration of electron beams for therapy, 24:14251
performance for cobalt-60 dosimetry during therapy in comparison to calorimeters, 23:38579
performance for detecting radon for leak testing of sealed radium sources, 23:14012

performance for detection of 5 to 150 kV x rays, 25:8672 (ICRU-17)
performance for determining absorbed x-ray dose to specimens from low-voltage x-ray generators, 23:47847 (NYO-2740-6, pp 167-98)
performance for determining neutron doses in biological materials, 21:43389
performance for direct measurement of quality factor and dose equivalent, 23:50138
performance for dose measurements in radiotherapy, effects of calibration methods on, 23:31782
performance for dosimetry in human phantoms, 22:8513 (CONF-670219)
performance for dosimetry in personnel, 22:21512
performance for dosimetry of 6 MeV x rays, 22:28530
performance for dosimetry of charged particles, 25:16043
performance for dosimetry of electron beams, 22:36284
performance for dosimetry of electrons in bacteria and yeasts, 22:38278
performance for dosimetry of fast neutrons in swimming pool reactor subcore facility, 24:16895
performance for dosimetry of γ and x, 22:49352
performance for dosimetry of γ- and high-energy x rays for therapy, use of phantoms to determine, 23:2841
performance for dosimetry of γ- and x radiation in phantoms, 22:28529
performance for dosimetry of high energy electrons in tissue equivalent phantoms, 24:50912
performance for dosimetry of high-energy electrons for therapy, 24:48567
performance for dosimetry of high-energy protons, 23:6452(T) (UCRL-Trans-1357)
performance for dosimetry of micro-beam of x rays, 22:23531
performance for dosimetry of personnel, 22:21519
performance for gamma dosimetry, 21:28488
performance for γ dosimetry, 21:45629
performance for γ-dosimetry in human phantoms, 22:38325
performance for high-energy proton dose distribution measurements in tissue-equivalent phantoms, 25:6699 (JINR-E16-5384)
performance for in vivo measurement of dose of gamma and x radiation for therapy, 25:21706
performance for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance for low-energy beta dosimetry, 24:36625 (JUL-603-ST, pp 190-1)
performance for measurement of depth doses of γ or orthovoltage x rays, 22:31086
performance for measurement of γ emission by sodium in water phantoms, 22:512
performance for measurement of ion dose in liquid and solid media, 21:45653
performance for measurement of transient ionization current produced by single, second pulse of 0.9 MeV electrons in gases and liquids at room temperature, 23:2740(R) (COO-78-174)
performance for measurement of x radiation leakage from target housing of linear accelerator, 22:28498
performance for measuring individual doses, 22:23523
performance for monitoring alpha-emitting isotopes in aerosols, 21:310
performance for monitoring environment of work areas, 22:21535
performance for monitoring medical personnel handling radium applicators, 23:43760(T) (TT-67-56003/6, pp 847-60)
performance for monitoring of air in radiochemical laboratories, 22:45560
performance for monitoring of krypton-85, 21:16142 (NYO-841-5)
performance for neutron detection, temperature effects on, 24:44255 (INR-1184)
performance for personnel dosimetry, 22:21534
performance for personnel monitoring, 23:50193
performance for pulse radiation dosimetry, functional transform scheme for determining, 24:14323
performance for pulsed bremsstrahlung dosimetry, 24:7655 (UCRL-71731)
performance for tritium monitoring in air, 22:8527 (SC-DC-67-2191)
performance for wide-range measurements of neutron flux and reactor power, 25:39731
performance in 42 MeV betatron, effects of energy dependence on, 25:13446
performance in automatic remote radiological monitoring system, 21:20175 (NP-16601)
performance in β—γ dosimetry, 21:19977 (PPAD-611-E)
performance in cosmic-ray ionization measurements at balloon altitude, (E), 25:4990
performance in CVTR, 21:7901(R) (WCAP-3269-17)
performance in gamma insensitive air samplers for radioactive gases, 25:48937
performance in measuring α activity of natural environment samples, 22:2211
performance in measuring natural radiation, effects of fallout on, 22:2214
performance in radiation dosimetry, book on, 21:17901
performance in soil water measurements, 25:13110
performance of $4\pi\gamma$, for radioactivity measurements, 21:27884 (AECL-2679)
performance of air, for x-ray dosimetry in comparison to Fricke chemical and lithium fluoride thermoluminescent dosimeters, 23:7831 (CONF-680920-, pp 400-9)
performance of alkane—carbon tetrachloride liquid, for gamma and x-ray dosimetry, 25:438 (NP-18481)
performance of ASTRA fast neutron radiation target can, 23:52425
performance of boron and boron trifluoride, for detection of thermal neutrons, 23:33384 (CEA-CONF-1262)
performance of boron trifluoride, use of relative γ discrimination coefficients for in-pile power level measurements of, 23:11300 (RCN-98, pp 427-37)
performance of calibrated, for activity measurements of pure beta sources, 23:38268
performance of cavity, for dosimetry of high-energy electrons and gamma and x radiation, 23:20019
performance of cavity, for measurement of absorbed electron beam dose in carbon and water, 23:9833(R) (NYO-910-69)
performance of dE/dx liquid xenon, 25:4319 (JINR-P13-5403)
performance of dielectric liquid-filled, for quality factor measurements of 3-GeV protons, 24:44327 (CONF-691101-, pp 809-16)
performance of digitized, for neutrons, (E), 21:43235
performance of DK-0.2, for fast neutron personnel dosimetry, 25:2493
performance of dual carbon-platinum, for dosimetry of therapeutic γ, 22:51613
performance of end-window, for measurement of β emission by single isotopes or mixtures, 21:45631
performance of extrapolation, for determining distribution of absorbed beta energy in aluminum and plastic, 23:11799
performance of extrapolation, for dosimetry of flat circular polonium-210 α source in biological material, 25:42436
performance of extrapolation, for dosimetry of polonium-210 alpha particles, 24:50636
performance of Farmer—Baldwin, for high-energy photons, 25:21453
performance of fission product monitoring, for high temperature gas cooled reactor cooling system, 25:25998
performance of graphite cavity, for calibration of cesium-137 gamma sources, 24:16798
performance of gridded, for alpha spectrometry, 21:1581
performance of gridded, for alpha spectroscopy, 24:39318 (INR-1182)
performance of gridded, for alpha spectroscopy using angular information, 24:50565
performance of γ, for power distribution measurements in reactor fuel channels, (E/T), 25:18047
performance of helium-3-filled, for neutron detection in gamma field, 24:46469 (FEI-178)
performance of IK-6, for electron discrimination, 21:1594
performance of in-core, for neutron flux measurements in boiling water reactors, 25:8061
performance of liquid, in registration of solar neutrinos, (T), 25:11628
performance of miniature, for flux measurements inside beta-emitting medium, 22:25652
performance of multiwire liquid xenon-filled for alpha particles, 25:46626
performance of out-of-core, for power reactor neutron flux monitoring, 25:39147 (IAEA-119, 6p.)
performance of parallel plate, with gas amplification system, 24:29520
performance of parallel-plate, for monitoring medical linac beams, 24:7634
performance of plane-parallel, filled with liquid and solid argon, 25:13295 (JINR-P13-5404)
performance of pocket dosimeters of, dose rate dependence of, 21:26243 (UCRL-50007-66-2, pp 21-3)
performance of proton recoil, (E), 24:50185(R) (GA-10280)
performance of proton recoil, for fast neutron spectra measurements in STSF, (E), 25:48306(R) (GULF-RT-10655)
performance of proton recoil, in fast subcritical assemblies, (E/T), 25:15388(R) (GULF-RT-10421)
performance of Rossi tissue-equivalent, for measuring gamma and neutron dose rates, 23:4839 (ORNL-TM-2334)
performance of thimble, under experimental conditions of γ and x radiation, 24:23208
performance of tissue equivalent, for determining neutron depth dose distributions, 24:41720 (ANL-7635, pp 115-53)
performance of tissue equivalent, for measurements of absorbed radiation dose by accelerator personnel, 22:38328
performance of tissue equivalent, in comparison to precision long counter for neutron absorbed dose measurements, 23:11752 (BNWL-481-2, pp 155-200)
performance of tissue-equivalent, for dosimetry of high-energy electrons and γ, 21:1747(T) (ORNL-tr-1250)
performance of tissue-equivalent, for fast neutron absorbed dose measurements in human phantoms, 25:6691 (CONF-691106-, pp 12-27)
performance of tissue-equivalent, for fast neutron dosimetry in phantoms, 25:51905
performance of tissue-equivalent, for measurements of absorbed radiation dose, 25:42443
performance of tissue-equivalent, for monitoring air in laboratories, 22:45557
performance of total absorption, for measuring energy of 10- to 30-kV x radiation, 23:614
performance of windowless counter, with supplementary field in radiation admission region, 21:312
performance of windowless gas flow, for measuring low-energy beta emitters from metal plates, 23:21956
performance of Yankee Power Reactor, analysis of, 22:30167(R) (WCAP-3708)
performance of, research on, 22:19342
performance with activated charcoal for monitoring radon in atmosphere and seawater, 24:46472 (NP-18404)
photon stopping power ratios in cavity, 21:26165
power supply for Farmer, for x-ray dosimetry, dc, 25:21455
preamplifiers for, design of FET-input, 21:10645
production multiplicity for, computations of, 21:5164
properties and performance of parallel-plate avalanche, for nuclear lifetime measurements, 21:24205
properties of 21-liter argon-filled Nishina-type, 24:7636
pulse converter design for, 22:36065
pulse delay time in helium-3-filled, for neutron detection, 25:29338
pulse rates from reactor monitoring system of, design of exponential pulse generator for simulation of, 21:39213
pulse shape determination in solid-state, energy-balance method for, 25:48949
pulse-height risetime analysis for helium-3-filled, methods for optimizing, 23:35509
pumps for, design of variable pumping speed, demountable glass circulation, 22:21237 (UUIP-547)
radiation dosimetry for dogs using tissue equivalent, γ and x, 23:9961
reactivity measurements in research reactors using, on-line, 22:37545
reactivity meter for, used in research reactors, 22:38043
readout circuit for, logarithmic, 25:18721(P)
readout equipment for personnel dosimeters of, design of transistorized, 21:22195 (NP-16705)
readout system for dosimetry, 22:47387
readout system for tissue-equivalent, for dosimetry, 22:49132
recombination effects on hexane, irradiated with gamma rays, 22:2430
recombination in parallel plate, from pulsed electron beams, 23:21972
recombination theories for determining LET and QF, 22:38051
resolution of helium-3, for fast neutron spectroscopy, 25:39755
resolution of, design of FET preamplifier for improved, 22:14819
resolution of, intrinsic, 22:40430
resolving power of finite-sized, use of modulation transfer function for determining, 22:23286
response characteristics of, computer program for determining plateau slope, 22:12574 (CEA-R-3190)
response for electron and gamma absorbed dose measurements in comparison to calorimetric dosimeters, 23:50180
response for nuclear weapons testing, 23:35455 (AD-684029)
response for photons at 8 to 1250 keV, 23:17750 (LA-4052)
response of cylindrical, optimization of, 24:7637
response of Farmer—Baldwin, for x-ray dosimetry in MeV range, 25:21454
response of helium-3, for fast neutron spectroscopy, optimization of energy, 25:39754
response of hexane-filled, for dosimetry of gamma rays and neutrons, 21:32492
response of liquid hexane, to gamma radiation, neutrons, and protons, 21:12668
response of liquid, to pulsed photon and electron beams, 25:37581 (NP-18875)
response of National Physical Laboratory, geometrical effects on gamma, 21:32415
response of organic compounds in, relative weight and molar, 23:4808(T) (NSJ-tr-128)
response of tissue-equivalent, under vacuum, 21:16197
response of, calculations for, 22:19105
response of, using organic compounds, 22:6587
response testing in swimming pool reactor neutron measurement channels, method for, 22:42383
response to gamma radiation and neutrons, (E), 21:37202
response to pulsed radiation using various filling gases, 25:55015
response to pulsed radiation, measurement of drift velocity distribution for filling gases for studying, 25:42088
response to rf radiation, 25:23932 (BRH/DEP-70-26, pp 173-81)
scintillation mechanism in noble gas, ionizing particle track, 23:29157
sensitivity for dose measurements in air and phantoms, compensating factors for, 25:44813
sensitivity for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
sensitivity for gamma and x rays of, biomedical application, directional, 21:22488
sensitivity for measuring x rays from diffraction apparatus, 25:13457
sensitivity for nuclear heating measurements, 25:37577 (CEA-R-4195)
sensitivity of cylindrical, effect of electron backscattering on, (E/T), 24:44256
sensitivity of Garigliano Power Reactor in-core, 22:48645 (GEAP-5623)
sensitivity of ionization chamber—vibrating reed electrometer system for krypton-85 detection, 21:30690 (CONF-660904-Vol.1 and 2, pp 781-98)
sensitivity of thick-walled aluminum, for bremsstrahlung beams at 4 to 27 MeV, (E/T), 22:46664
sensitivity of thick-walled graphite, for 1-GeV photons, 23:11796
sensitivity of, for detection of permanent gases, use of gas amplification for increasing, 23:11814
sensitivity of, for neutron and x-ray dosimetry, 21:22170 (NP-16701)
sensitivity to reactor operating conditions, example of, 23:43166
sensitivity variation for neutron detection in variable gamma fields, 25:51854 (FEI-212)
stabilization of collecting volume in, guard ring shielding for, 23:633
standardization of voltage charger and quartz-fiber, ANSI, 25:26467
testing of SEFOR, static and dynamic, 22:14137(R) (GEAP-5561)
theory for cavity, 21:11426
theory for electron dosimetry, general cavity ionization, 24:44482 (EUR-4452, pp 455-78)
theory of Bragg—Gray, for dosimetry, 24:25304 (CEA-R-3964)

use as exposure timer for pediatric x-ray equipment, 22:25635
use for absolute measurement of high-energy bremsstrahlung intensity, 21:3290 (PNE-807-F)
use for beta particle backscattering analysis in mixtures of close atomic numbers, 22:23342
use for calibration of cesium-137 and cobalt-60 gamma sources, 21:1624
use for calibration of ferrous sulfate dosimeters, 22:38271
use for comparison of radiation standards in wide energy ranges, 21:26195
use for detection and measurement of thermal neutrons, 21:14427 (CEA-R-2962)
use for determining absolute power levels of zero power reactors, 21:45345(R) (IDO-17234)
use for dosimetry during radiation accidents, 23:708
use for dosimetry of mixed radiation, liquid dielectric, 21:43281
use for dosimetry of patients during dental radiography, 21:22433
use for dosimetry of soft x rays, 22:40713
use for electron dosimetry by secondary electron equilibrium, 22:51260
use for fast neutron flux measurements, 22:4428 (NP-17063)
use for high-energy electron dosimetry, correction factors for, 21:3323
use for measurement of neutron noise in Triga reactor at 3W and 4 to 400 cps, 21:44951
use for measurement of transpiration of tritiated water by insects, 21:45555
use for measuring neutron flux, method for compensation of gamma radiation in, 21:8619(P)
use for measuring radon and radon-220 contents in atmosphere, 21:6070
use for measuring radon-220 release from soils, 21:28081
use for measuring tritium in atmosphere and liquids and on surfaces, 23:7738(T) (WAPD-Trans-102)
use for noise analysis of low-power reactors, (E/T), 23:21560 (RCN-101)
use for plasma diagnostics, 24:6527
use for reactivity transfer function measurements, 21:8590
use for simultaneous measurement of dose equivalent and quality factor of mixed radiation, 21:26149 (INR-777/XIX/D)
use for subcritical power reactor measurements, effects of gamma radiation intensity on, 21:40590
use in air and depth dosimetry, Fourier analysis of energy dependence of blurring effects in, 22:19166
use in air dosimetry, Fourier analysis of blurring effects in, 22:10613
use in deep water isotopic current meter, 21:26064(R) (JLI-2748-86)
use in deep water isotopic current meter, engineering drawings for, 21:22184
use in depth dosimetry, Fourier analysis of blurring effects in, 22:10614
use in detection of radioactive inert gases, 21:43218(T) (BNL-tr-141)
use in determining bremsstrahlung energy losses in calorimeters, 21:16182
use in logarithmic-conversion integration comparison type period meter, 23:6326(P)
use in measuring charge and mobility of ions and aerosols, 21:6080
use in measuring evaporation losses during preparation of radioactivity standards, 21:24175
use in monitoring system for manned space systems, proposal for, 22:36039
use in multidecade hybrid survey meter with plug-in Geiger—Mueller frisking probe for gamma dose-rate measurements, 23:636
use in neutron spectrometers, 21:28278(P)
use in photographic film calibration for β particles, 21:1643
use in radioisotopic smoke detection device, 21:16073
use in radiometric densimeter, 21:14487
use in radiometric densitometer, 21:24241
use in radiometric instrument for measuring hydrogen cryogenic densities and qualities, 22:38132
use in radiometric thickness gage, 21:8532
use in satellite monitoring recorder of cosmic rays, (E), 23:20728
use in tracer method for continuous measurement of oil consumption in internal combustion engines, 22:14700
use of annular, for Dungeness B Reactors gas pressure regulated multiple steel ball neutron flux scanning system, 23:23841
use of argon-filled, in densimeters, 21:1665
use of balanced tissue-equivalent, for determining quality factor of gammas and neutrons, 21:3253
use of boron-coated, in Campbelling detection system for neutrons, 22:6605
use of condensor-type, for personnel monitoring, rules for, 25:42075
use of diamond, in x-ray spectroscopy, 21:17875
use of differential, for study of isotopes with long half lives, 21:12664
use of extrapolation, for calibration of radiation detectors for measuring beta doses, 22:4484 (NP-17062)
use of Farmer—Baldwin and Victrometer, for dosimetry of high-energy x radiation, 21:22181
use of free air, for x radiation dose measurements, 21:39256
use of gamma- and neutron-sensitive, for power spectral density measurement in HFIR, 22:25096 (ORNL-TM-2144)
use of gas multiplication, for dosimetry, 21:28591(R) (NYO-2740-4)
use of hexane-filled, for determining quality factor in mixed field of gamma rays and neutrons, 21:32404
use of integrating pulse discharge for dosimetry and monitoring of accelerators, 21:17845
use of integrating pulse discharge, for radiation dosimetry and monitoring, 21:4684 (BNL-9593)
use of liquid dielectric filled, for dosimetry in mixed gamma-fast neutron field, 21:329
use of liquid hexane-filled as sensitive dosimeter, 21:14474
use of liquid hexane-filled, for dosimetry, 21:3092
use of multiplate, as quantameter for bremsstrahlung beam energy measurements, 22:46687
use of paired, for measurement of dose equivalent in mixed neutron—gamma fields, 22:12659
use of parallel-plate, for absolute measurement of cobalt-60 gamma dose, 23:705
use of pocket electroscopes for personnel monitoring, rules for, 25:42074
use of thimble, for calibration of 520 Ci cobalt-60 gamma source, 23:9764
use of tissue-equivalent, for dosimetry of fission neutrons, 22:30866 (BNL-12452)
use of tissue-equivalent, with organic scintillation detectors for determining quality factor and dose equivalent in mixed radiation fields, 23:4849
use of well-type, for measuring activity of nonpoint beta and gamma sources, 21:6193 (CEA-R-3071)
use of well-type, in refined metrology, 22:47316 (CEA-R-3438)
use of, in measurement of doses received from diagnostic x radiation, review of, 21:6498
use of, in measuring environmental contamination, technique for, 21:10609(R) (TID-23367)
use of, to measure absorbed dose from particles of reactor fuel material, 21:8452(R) (ORNL-TM-1686)
use with alpha sources for determining methane content in air, 21:17904
use with Geiger—Mueller detectors for measuring gamma dose rates, 21:26146 (ECOM-2805)
use with radium to determine methane content in atmospheres of mines, 21:16215
use with scintillation detectors for measurements in fast neutron (n,α) reactions with nuclei, 22:38009
use with URS-50-I x-ray diffractometer, 21:1604
voltage pulse profile of pulsed, analytical model for, 24:5899
wall effect calculations for cylindrical, method and tables for, 23:41002
wall effect calculations for helium-3-filled, for neutron spectroscopy, 23:35533
wall materials of, methods for testing air equivalence conditions of, 21:26194
window of end, method for measuring thickness of mica, 25:48910
windows for gas-filled, for x-ray detection, method of stretching polypropene for use as, 22:38020
windows for, preparation of thin-film parylene, 25:4329

RADIATION DETECTORS, PROPORTIONAL
afterpulses in, analysis of time and energy distributions of, 22:16867
ageing effect of gas-filled, 23:38272
amplification in, methods for estimating gas, 24:2945 (ORNL-4470, pp 52-7)
amplifier for boron trifluoride, design of high-speed, 22:51276(R) (IDO-17269)
amplifier for proton-recoil, for neutron measurements in plutonium critical facilities, 23:2572
amplifier for, design and performance of, 24:22986 (NP-18177)
amplifier for, design of, 25:32231
amplifier overloads in proton-recoil, effects on spectrum distortion from, 23:29217
amplifier—discriminator for boron trifluoride, used for neutron detection, 21:28190 (AECL-2680)
amplifiers for, design of transistorized low-input-resistance cascade, 23:41007
amplifiers for, design of wideband pulse, 23:40985 (EUR-4289, pp 85-91)
amplifiers for, pulse shaping in, 22:8344
anode unit for end-window, design of, 25:44598
anodes of high-pressure 4π, use of gold-coated quartz fiber as, 22:6610
avalanche chain development in argon—methane, 24:29503
background in low-level, due to detergent contamination during cathode cleaning, 24:33909
background reduction in, 22:25440(R) (MLM-1443)
background reduction in x-ray, by pulse-shape discrimination, 22:45273 (AERE-R-5749)
background reduction in, methods for, 21:10637
background reduction through risetime discrimination in, used for detection of cosmic x radiation, 22:28078
beta particle absorption in source mounts of 4πβ, corrections for, 21:1627
beta-particle energy deposition spectra in, effects of gas—solid interface on carbon-14, (E), 25:15913
cadmium filters for cylindrical, neutron transmission through, 21:36358
calibration and performance of proton-recoil, for neutron spectroscopy, 24:39207 (IN-1317, pp 233-381)
calibration and quality control of two-gas, use of beta sources for, 23:7735(R) (IN-1255)
calibration for γ dosimetry in tissues, 22:28187
calibration of B and W Critical Experiment Laboratory multi-rod critical assembly, description of, 22:32740(R) (BAW-3647-7)
calibration of boron trifluoride, 23:33081(R) (GA-9329)
calibration of boron trifluoride-filled and boron-coated, for reactor control systems, 22:28063 (CONF-661020-18)
calibration of cylindrical polyethylene-moderated boron trifluoride, intercomparison, 25:10809 (BNWL-SA-3565)
calibration of flow-through, for carbon-14 determination, 21:17592
calibration of flowthrough, for detecting radon-220, 22:40372
calibration of long, for fast neutrons, activation technique for, 24:39209 (AERE-R-6429)
calibration of Morucci, for in vivo measurement of plutonium, 24:46480
calibration of proton-recoil, fast neutron spectrum measurements in iron and scandium beams for, 24:47818 (ANL-7610, pp 61-258)
calibration of proton-recoil, for neutron spectroscopy, 24:29552
calibration of proton-recoil, methods for, 25:23774 (ORNL-TM-3347)
calibration of Rossi tissue-equivalent, for LET spectra measurements, 25:8492
calibration of spherical polyethylene-moderated helium-3, intercomparison, 25:10809 (BNWL-SA-3565)
calibration of x-ray equipment by, 22:515
characteristics of De Panger precision long counter, 24:19199 (HASL-222)
characteristics of polyethylene-moderated boron trifluoride, for neutron dosimetry, 25:57782
circuit for boron-lined, improved signal-to-noise ratio using integrated analog amplifier, 23:2592
circuit for gas flow, 25:23803
circuit for hydrogen, for neutron—gamma discrimination, rise time-to-amplitude converter, 23:13978 (CEA-CONF-1151)
circuit for measuring and recording pulse shapes and risetimes from, 23:667
circuit for multiplication measurements for critical mass studies, 25:37618
circuit for multiwire, design of threshold and delay, 25:8468 (CEAL-1054)
circuit for polyethylene-moderated boron trifluoride, self-auditing, 25:8501
circuit for portable monitor, linear or logarithmic output, 24:33890
circuit for telescope, for charged particle identification, 25:8530
circuits for absolute measurement of activity of radioisotopes, design of coincidence, 23:13981 (CEA-CONF-1190)
circuits for balloon- and rocket-borne systems for x-ray detection, 23:29188
circuits for coupling boron trifluoride, for neutron time-of-flight spectroscopy, 22:38067 (EUR-3942)
circuits for gamma-flash cancellation in boron trifluoride, for neutron detection, 24:9645
circuits for multiwire on-line, block diagram for logic, 25:42156
circuits for position-sensitive, analog division, 25:8471 (JUL-CONF-4, pp 11-21)
circuits for, design of high-count rate neutron counting, 21:34517 (ORNL-4091, pp 22-35)
circuits used in, description of, 21:10637
coincidence corrections in alpha counting, determination of, 23:9511(R) (MLM-1520)
control system for boron trifluoride, for neutron spectroscopy, automatic, 25:2475 (INP-707)
corrections for 4π, for measuring activity of cesium-137, 22:14774
counting rates of 4πβ-γ coincidence, with delay, 21:1629
current measurements on ZPR-6, standard deviation of, 21:30091(R) (ANL-7210)
current variations in, estimation of dose-equivalent from, 23:47846 (NYO-2740-6, pp 145-65)
data acquisition and analysis system for low-level beta, computer-based, 25:10833
data acquisition and electronics system for multiwire hodoscope, design of CAMAC, 25:59656
data acquisition from array of position-sensitive, correction for accidental coincidences in, 25:54997 (INSJ-128)
data acquisition system for multiwire position-sensitive, 24:48275
data analysis for neutron flux from proton-recoil, graphical method for, 23:43531
data from recoil-proton, for neutron spectroscopy, decomposition of empirical functions applied to, 23:26563
data from, design and performance of logarithmic encoders for analog-to-digital conversion of, 25:48935
data from, use in determining dose equivalent of fast neutrons, 21:24234
data processing system for array of, 25:23785(P)
data reduction from 4π proton-recoil, fast neutron energy spectra from, 22:49067 (ANL-7394)
data unfolding for neutron spectroscopy, expansion method for proton-recoil, 24:33927
dead time measurements of, coincidence method for, 22:8349
dead time of 4π, equation for calculation of pulse shape effects on, 25:39712
dead time of, used for x-ray detection, single-foil method for determining, 23:41013
description for delayed neutron detection in uranium scrap analysis, 25:8447(R) (BHO-65-1)
description for tritium determination in urine, 24:5934(R) (UCRL-50007-69-2)
description of 2π, for low-energy beta and x ray spectroscopy, 24:20981 (CEA-R-3938)
description of air, for alpha detection, 21:34519 (ORNL-4091, pp 49-67)
description of array arrangement for plutonium passive analysis facility, 25:6515(R) (BHO-66-1)
description of boron trifluoride, for detection of 0- to 14-MeV neutrons, 22:4445
description of cadmium-covered boron trifluoride, for monitoring of intermediate neutrons, 23:47770
description of gas-flow, 21:30698 (RT/ING-(66)25)
description of large area, for beta activity measurements in coolant of Studsvik R2 research reactor, 22:37970 (AE-319)
description of large-volume atmospheric-pressure, for detecting 20-keV x rays, 25:32251
description of paraffin-moderated boron trifluoride, for detecting photoneutrons, 23:22090
description of polyethylene-moderated helium-3, for fast neutron dosimetry, 24:25306 (DESY-70/5)

description of position-sensitive, for use with magnetic spectrographs, 25:8476 (JUL-CONF-4, pp 71-120)
description of proton-recoil, for fast neutron spectroscopy, 25:51885
description of proton-recoil, for measuring neutron spectra, 24:33934
description of rocket-borne, for detection of auroral x radiation, 21:6188 (AD-636530)
description of rocket-borne, with parabolic reflector for cosmic x-ray detection at 44 to 100 A, 24:39310
description of spherical polyethylene-moderated helium-3, for neutron dosimetry at 10 to 100 MeV, 24:36630
description of spherical tissue-equivalent, for dosimetry of high-energy radiation, 24:9695 (JINR-P16-4765)
description of spherical tissue-equivalent, for dosimetry of high-energy radiation, 24:23026(T) (ORNL-tr-2286)
description of system of six boron trifluoride, for neutron source strength comparison, 24:29509
description of tissue-equivalent, for measurement of dose distribution in cylinders, 24:44333 (EUR-4452, pp 171-81)
design and construction of position-sensitive, 24:50347(R) (NYO-844-81)
design and construction of rocket-borne gas-flow, for measurement of stellar x radiation, 25:39707 (UCRL-51007)
design and efficiency of large-window, 22:8357
design and fabrication of large area, 21:39192(R) (UCRL-50007-67-1)
design and fabrication of locus-sensitive, for detection of small-angle scattering of x rays, 21:16163
design and fabrication of xenon—methane, for detecting plutonium-239 in lungs, 25:37562 (NP-18809, pp 4.1-6)
design and operation of, 23:38317
design and operation of fast 2π flowthrough, for alpha detection, 24:4425
design and operation of flow, for measurement of radioactive samples, 24:14269(P)
design and operation of gas flow, for alpha and beta detection, 24:7627 (IEA-157)
design and operation of gas flow, for alpha, beta, and gamma personnel monitoring, 24:14243 (ANL-7616)
design and operation of helium multiwire, for thermal neutrons, 24:14262
design and operation of methane flow, for detection of thermally stimulated exoelectrons, 25:23876
design and operation of proton-recoil, for fast neutron spectroscopy, 25:51879 (CONF-701002-, pp 385-400)
design and operation of satellite-borne, for measurement of soft solar x rays, 25:8499
design and operation of system of gas flow, for hand and shoe monitoring, 24:48283
design and operation of system of, for plutonium-239 determination in lungs of man, 24:2439 (AEEW-M-912)
design and operation of tissue-equivalent Rossi, 24:41700
design and operation of wall-less, 24:44246 (EUR-4452, pp 235-48)
design and operation of wall-less, for microdosimetry, 24:44247 (EUR-4452, pp 249-65)
design and performance for detection of cosmic x rays at 2 to 30 keV, 21:43248
design and performance for determination of plutonium burden in lungs of man, 23:16180 (NIRS-7, pp 3-11)
design and performance for fast reaction detection and dosimetry, 22:19112
design and performance for identification of high momentum particles, 24:50617 (TID-25473(Vol.3), pp 17-34)
design and performance for measuring neutron dose equivalent at 10 keV and up, 22:28175 (AERE-R-5656)
design and performance for measuring plutonium-239 body burden in lungs of man, 23:16081 (CEA-R-3559)
design and performance for personnel dosimetry of neutrons at 10 to 500 keV, 23:26557
design and performance in coincidence circuit with scintillation spectrometer, 21:28247
design and performance of 2π, for measuring beta sources of large area, 24:11766 (INR-1092)
design and performance of 4π, for absolute measurement of β-emitters, 22:16858 (CEA-R-3362)
design and performance of $4\pi\beta$ and $4\pi\beta$—γ coincidence gas-flow, for measuring activity of fission fragments, 23:17751 (PG-Report-864)
design and performance of array of position-resolving boron trifluoride, for neutron scattering experiments, 23:35460 (JUL-582-ZE)
design and performance of arrays of multiwire, with fast digital arithmetic for decision making, 23:40993 (EUR-4289, pp 247-50)
design and performance of boron trifluoride, for measuring photoneutrons at energies up to 5 MeV, 22:19110
design and performance of boron trifluoride, for neutrons, 21:30719
design and performance of boron trifluoride, for thermal neutrons, 21:26152 (RT/EL-(67)2)
design and performance of boron trifluoride, with spherical moderators containing absorbers for neutron dosimetry, 23:11876
design and performance of boron-lined, for detection of delayed neutrons in fuel element claddings, 23:17545
design and performance of carbon dioxide-filled, for radiocarbon dating, 21:30684 (BMwF-FBK-67-32)
design and performance of flowthrough, for monitoring exhaust air, 24:9635 (FMRB-29/69)
design and performance of flowthrough, for uranium determination in solutions, 25:10473 (CEA-R-4032)
design and performance of helium-3-filled, spherically moderated for measuring neutron dose equivalent, 22:28174 (AERE-R-5131)
design and performance of high-pressure, for high-energy particle identification, 25:35018
design and performance of high-resolution multiwire, for hyperon experiments, 25:44690
design and performance of Hurst-type, for measurement of fast neutron dose to tissues, 21:1595
design and performance of iron-57 coated, for detection of conversion electrons in determining Moessbauer effect, 21:36374
design and performance of large area, for measuring plutonium-239 lung burden, 24:19223
design and performance of large multiwire, 25:15942
design and performance of lead and paraffin lined boron trifluoride, for detection of cosmic neutrons, 21:17867
design and performance of low-background gas-flow, for radio gas—liquid chromatography, 23:2579
design and performance of low-background x-ray, for determining plutonium-239 in lungs of man, 23:22037
design and performance of low-level gas counter with plastic-scintillator coincidence shield for carbon-14 and tritium, 21:26183
design and performance of low-level gas-flow, for activity measurements of cosmic-produced x-ray sources, 23:11773
design and performance of multiple helium-3-filled, for neutron personnel protection, 23:2571
design and performance of multiple polyethylene-moderated helium-3, for neutron detection in nuclear safeguard applications, 23:24428 (LA-DC-9761)
design and performance of multiple wire, for high-energy particles, 24:29572
design and performance of multiple, as recording system for beta spectrometers, 21:17880
design and performance of multiwire position-sensitive, for measuring charged particle coordinates, 24:21007
design and performance of multiwire, for analyzing beam profiles, 22:45276 (CERN-68-33)
design and performance of multiwire, for use in high-dispersion magnetic spectrometer, 25:48975
design and performance of neutron—gamma discrimination system for recoil-proton, for fast neutron spectroscopy, 24:2477 (CEA-R-3823)
design and performance of paraffin-moderated boron trifluoride, for neutron monitoring near 5.5-MeV Van de Graaff accelerator, 21:26192
design and performance of paraffin-moderated boron trifluoride, for measuring spectrum of evaporation neutrons produced by cosmic rays in lead, 23:9739
design and performance of point counter with quenching vapor above free liquid surface, for exoelectron detection, 21:3287
design and performance of polyethylene-moderated helium-3-filled, for neutron detection, 23:43525
design and performance of portable fast-neutron dose-equivalent, 22:2371
design and performance of portable tissue-equivalent, for dosimetry in mixed gamma—neutron fields, 23:11752 (BNWL-481-2, pp 155-200)
design and performance of position-sensitive array of multiwire, for alpha detection at 6 to 9 MeV, 24:39281
design and performance of position-sensitive helium-3 resistant-wire, for thermal neutron spectroscopy, 25:18738 (RISO-229)
design and performance of position-sensitive multiwire gas, for study of reactions induced by 14-MeV neutrons, 25:44677
design and performance of position-sensitive, for magnetic spectrographs, 25:18681
design and performance of proportional counter—semiconductor telescope, for alpha spectroscopy for (n, α) reactions at 14 MeV, 25:44673
design and performance of proton-recoil, for fast neutron spectroscopy, 24:4470
design and performance of proton-recoil, for fast neutron dosimetry, 21:17899
design and performance of proton-recoil, for in-core fast neutron spectroscopy, 25:2472 (AEEW-M-905)
design and performance of proton-recoil, for neutron spectroscopy, 23:24426 (IN-1218, pp 181-316)
design and performance of proton-recoil, for neutron flux measurements, 21:45422
design and performance of proton-recoil, with pulse shape discrimination for core neutron spectra measurements in reactors, 22:33659 (IN-1054)
design and performance of re-entrant well gas-flow, for measuring activity of sulfur-35, 23:11810
design and performance of Rossi, for fast neutron dosimetry in phantoms, 24:27431 (CONF-690540-, pp 576-85)
design and performance of satellite-borne large area beryllium, for x radiation, 24:39250
design and performance of satellite-borne, for measuring anisotropies of cosmic radiation, 25:32230
design and performance of simple flow, for detection of soft x radiation, 23:35496
design and performance of spherical, 22:14810
design and performance of telescope, for studying (n,α) reactions at 14 MeV, 24:29560
design and performance of thin parallel plate, for densely ionizing particles, 21:17879
design and performance of tissue-equivalent Rossi, for measuring dose distribution, 24:44332 (EUR-4452, pp 153-70)
design and performance of tissue-equivalent, for dosimetry, 22:38119
design and performance of tissue-equivalent, for gamma- and neutron-dosimetry at high altitudes, 22:4482 (BNWL-SA-1364)
design and performance of tissue-equivalent, for neutron dose measurements in mixed neutron—gamma fields, 22:36026 (BNWL-SA-1632)
design and performance of tissue-equivalent, for neutron dosimetry in mixed fields, 24:4461 (BNWL-1159, pp 7-30)
design and performance of variable-geometry, for detection of soft x rays, 23:50151
design and performance of wall-less, for measurement of energy deposition spectra, 23:41028
design and performance of White Mountain cosmic neutron multiplicity monitor using boron trifluoride, 23:21963
design and performance of x-ray, 21:6229
design and performance of, book on, 21:1618
design and performance of, for atom and ion detection in keV range, 21:317
design and performance of, for gamma radiation at 1.0 to 50 keV, 21:10635
design and performance of, for selecting stopped particles in thin gas target, 21:39253
design and performance of, using solid-state circuits for low-level environmental monitoring, 23:7731 (CONF-681017-14)
design and performance of, with boron deposits, for neutron detection, 23:41016
design and performance of, with large thin windows for low energy alpha particles, 21:10663
design and performance with polypropylene window for cosmic soft x rays, 24:33903
design and response of, for fast neutron flux measurements, 23:47753
design and testing of helium-3-sandwiched, for neutron spectroscopy in critical assemblies, 22:47360 (IITRI-578-P-31-2)
design and testing of proton recoil, for neutron spectroscopy in critical assemblies, 22:47360 (IITRI-578-P-31-2)
design and testing of thin-window, for x radiation, 22:37991 (N-68-11367)
design and use for analyzing x-ray fluorescence, 22:310 (ORNL-IIC-10(Vol.2), pp 817-4)
design and use of high-pressure 4π, for radionuclide electron-capture studies, 22:6564
design and use of proton-recoil, for fast neutron monitoring, 22:6570
design and use of spherical tissue equivalent, 21:28591(R) (NYO-2740-4)
design and use of x-ray, for radiometric analysis of low-activity sources, 22:311 (ORNL-IIC-10(Vol.2), pp 944-62)
design and use of xenon—methane, for x-ray fluorescence analysis, 23:35491
design for alpha detection in air, 22:19126(P)
design for alpha detection in high neutron and gamma backgrounds, 25:376
design for alpha survey meter, 21:32480
design for automatic counting and recording in carbon-14 age estimation, 23:24422 (CEA-R-3702)
design for automatic counting system of irradiated foils, 21:45345(R) (IDO-17234)
design for continuous α particle monitoring in air in glove boxes, 23:14170
design for counting α and β activity on contaminated clothing, 21:30824(P)
design for detecting x radiation from 1 to 8 angstroms, 22:47340(P)
design for determination of airborne radon-222 decay products, 25:23792
design for determination of iron-55 in blood and other liquids, 25:8466 (BNWL-SA-3624)
design for determination of low-level plutonium-239 in human lungs, 23:29203
design for low-level tritium determination in biological and environmental samples, 25:55003 (UCRL-73128)
design for measurement of activity of beta sources by absorption method, 23:50113 (CEA-R-3782)
design for measuring beta activity of gases, 22:21310 (CEA-R-3403)
design for measuring carbon-14 activity in atmospheric carbon dioxide, 23:4826
design for measuring low environmental dose rates, 23:4847
design for on-line monitoring of natural gas lines for krypton-85 and tritium, 25:37620
design for operation at high temperatures for reactor control, 23:23881
design for portable fast neutron dosimeter, 21:36399
design for radiochromatography, 24:25288
design for scanning thin-layer radiochromatograms, 21:14447
design for spectral measurement of conversion electrons using backscattering geometry, 24:13766 (NBS-TN-501)
design for studying gas mixture effects on multiplication factor, 24:25258 (RT/FI-(69)13)
design for thermal neutrons, 24:19225
design for tracer measurements of blood flow in man, 25:10828(P)
design for use with semiconductor detectors for detection of charged particles produced in neutron reactions at 14 MeV, 23:26510 (CEA-R-3624)
design improvements of absolute boron trifluoride, 25:39733
design modification of Charpak position-sensitive multiwire, with film supported anode wires, 24:39280
design modifications for use as x-ray spectrometry, 24:13764 (CEA-R-3830)
design of air-filled, for alpha detection, 23:50119 (RFP-1166)
design of arrays of wire, for triggering spark chambers, 23:40993 (EUR-4289, pp 247-50)
design of boron trifluoride neutron, using titanium, 21:22166(P)
design of boron trifluoride, for detection of neutrons from fission of californium-252, engineering drawings for, 21:32428
design of boron trifluoride, for isotropic multicollision fast neutrons, 21:8620
design of boron trifluoride, for monitoring fissionable isotopes in processing plant streams, 23:4804 (IN-1211)
design of boron trifluoride, for neutron monitoring at Van de Graaff accelerator, 22:47315 (BNWL-715(Pt.1), pp 54-60)
design of boron trifluoride, for neutron sensitive alarm system, 25:32219

design of boron trifluoride, for neutron-sensitive criticality alarm system, 25:6532 (BNWL-SA-3365)
design of boron trifluoride, for use in determining californium and curium nuclides, engineering drawings for, 21:8623
design of boron-10-lined, for detection of neutrons in reactors, 23:24449
design of boron-coated cathode, for measurement of neutron dose equivalent rate, 23:35467(T) (ORNL-tr-2150)
design of boron-coated cathode, for measurement of neutron dose equivalent rate, 23:24430 (SZS-18/68)
design of boron-coated, with low gamma sensitivity for in-core neutron flux monitoring, 25:29324 (AEEW-M-970)
design of Bragg—Gray, for monitoring neutrons at Van de Graaff accelerator, 25:10824
design of carbon dioxide-filled, for radiocarbon dating, 21:24224
design of carbon dioxide-filled, with quartz walls, 21:291
design of combined scintillation—, for simultaneous gamma and neutron detection, 25:23783(P)
design of cylindrical window gas-flow, 21:10668
design of dual system of boron trifluoride, for neutron dosimetry, 21:26248
design of end-window variable geometry, for x ray detection, 25:8510
design of end-window, with secured anode, 23:11770
design of fixed-geometry test source assembly for gas-flow, for alpha and beta detection, 25:23802(P)
design of flow through dose-rate, for measuring gas density, 22:28200(P)
design of flow-type, for use in gas chromatography at high temperatures, 23:19961(P)
design of flowthrough, for measuring alpha and beta contamination of clothing, 22:45313
design of gas flow, for radiochromatographic analysis, 24:36585
design of gas-flow, for low-energy radiation, 22:4451(P)
design of graphite moderated, for neutrons, engineering drawings for, 22:40373
design of graphite-moderated boron trifluoride, for neutron detection, 22:38044
design of helium-3 counter for neutron beam density measurements, 22:5708 (RISO-144)
design of helium-3-sandwiched, for fast neutron spectroscopy, 23:26560 (N-69-15750)
design of high-sensitivity, for x-ray spectroscopy, 22:6621
design of hodoscope consisting of wall-less, operating on-line to PDP-8 computer, 23:43533
design of humidity insensitive, for alpha and beta particles, 21:1637(P)
design of laminar flow, for continuous monitoring of gamma activity in liquid streams, 25:18717
design of large 2000 x 150 mm boron trifluoride, for neutron detection, 23:41006
design of large area, for detecting α contamination, engineering drawings for, 21:6302
design of large area, for detection and measurement of cosmic radiation, 22:36107
design of large position-sensitive, 24:16864(P)
design of large-area air, for alpha monitoring of contamination of hands and shoes, 24:2463
design of large-area, thin-window, gas-flow, for tritium monitoring, 23:24435 (UCRL-50007-68-2, pp 34-40)
design of large-surface methane flowmeter, for use in biological research, 21:4698
design of lead-plate quantameter for measurement of meson (π^0) energies at NAL 15-foot bubble chamber, 25:34942 (CONF-700623-(Vol.1), pp 97-116)
design of Lyman-alpha photon, filled with carbon disulfide, 22:16886
design of methane-filled, for detection of alpha, beta, and gamma radiation, 22:30819 (ARH-488)
design of methane-filled, for low-level tritium and carbon-14 in small samples, 21:45417
design of miniature grid-walled, 21:22364(R) (BNWL-235-2)
design of miniature tissue-equivalent, for microdosimetry of fast neutrons, 25:21450
design of moderated and unmoderated boron trifluoride, for detecting thermal and fast neutrons, 22:33656(P)
design of moderated spherical helium-3-filled, for neutron dose-equivalent evaluation, 22:43123
design of multiple wire, for simultaneous measurement of fission and (n,α) reaction rates, 25:23825
design of multiwire on-line, for detection of high-energy particles, 25:42156
design of multiwire position-sensitive, for high-energy particles, 25:51902
design of multiwire, for digital registration of ionizing particles, 23:7749
design of multiwire, for measuring L/K electron capture ratios, 21:40404
design of multiwire, for measuring plutonium content of human lungs, 25:57773
design of multiwire, for use as precise beam hodoscope, 25:29370 (LAL-1246)
design of neutron criticality, with alarm systems, engineering drawings for, 24:31708
design of position-sensitive multiwire, based on drift time measurement, 25:23812
design of position-sensitive multiwire, for use with split-pole magnetic spectrograph, 25:8478 (JUL-CONF-4, pp 141-7)
design of position-sensitive multiwire, for use wth magnetic spectrograph, 25:8479 (JUL-CONF-4, pp 148-64)
design of position-sensitive system of boron trifluoride, for neutron detection, 24:36565
design of proton recoil, for measurement of 3 keV, to 1 MeV neutron spectra in ZEBRA Reactor, 24:22445 (AEEW-R-651)
design of proton-recoil, with multiple radiators for fast neutron dosimetry and flux measurements, 22:45274 (BARC-330)
design of rare gas-filled, 21:39268(P)
design of rocket-borne high-resolution, for x-ray spectroscopy, 22:28146
design of rocket-borne, thin-window, for detection of cosmic x radiation, 22:38022
design of sensitive gas, for determination of argon-39 in atmosphere, 23:7632
design of short boron trifluoride, for neutrons, 21:1633
design of short boron trifluoride, with spherical moderators for neutron detection, 21:43240
design of spherical boron trifluoride, for low energy neutrons, engineering drawings, 21:3306
design of spherical tissue-equivalent, with dose equivalent readout, 25:18809
design of spherical wall-less, for microdosimetry, 23:13974 (BNWL-715(Pt.2), pp 181-225)
design of spherical, composed of tissue-equivalent plastic for neutron dosimetry in mixed gamma-neutron field, 23:13974 (BNWL-715(Pt.2), pp 181-225)
design of split-anode, for beta and gamma detection, 25:18698(P)
design of stacked gas, for continuous air monitoring, engineering drawings for, 24:27368
design of system of boron trifluoride, for photoneutron determination of beryllium, 25:32288 (AERE-R-6308)
design of tissue-equivalent spherical, 23:47735 (NYO-2740-6, pp 108-12)
design of tissue-equivalent, for linear energy transfer measurements, 22:28181
design of tissue-equivalent, for measuring radiation energy absorption spectrum in chromosomes, 22:38053
design of tissue-equivalent, for micromeasurement of radiation dose distribution in biological tissues, 23:50492
design of transistorized, for monitoring α, β, and γ surface contamination, 21:14451
design of transistorized, for thermal neutron spectroscopy, 24:2478 (INP-676)
design of wall-less, 22:49326 (NYO-2740-5, pp 6-200)
design of wall-less, for measuring energy deposition spectra, 23:50108 (BNWL-1051(Pt.2), pp 194-6)
design using internal counting gas of carbon dioxide for age estimation, 23:22046
design with automatic gain control for detection of solar x radiation aboard ESRO-II satellite, 23:11779
design with electronic collimation using fast coincidence technique, 24:36575
design with planar cathode and parallel anode wires for selective control of alpha contamination, 23:35474
design, operation, and uses of, 21:12645(T) (AD-643601)
development and calibration of proton-recoil, for dosimetry of 0.1- to 15-MeV neutrons, 23:47865
development and operation of LET spectrometer, 24:31745
development and research on wall-less, 25:8563 (NYO-2740-7, pp 52-110)
development and testing of 4π boron trifluoride, for determination of plutonium-240, 25:356(R) (LA-4523)
development and testing of multiwire, 25:27959
development and uses of position-sensitive, based on frequency analysis of output pulses, 24:39306
development at ORNL, 24:7630 (ORNL-4459, pp 15-22)
development for alpha-excited x-ray fluorescence analysis, 21:35872
development for beta and x-ray spectroscopy, 22:14826
development for detection of exoelectrons, 25:26487
development for dosimetry of cobalt-60 γ radiation in tissues, 22:28187
development for gas-recoil neutron spectroscopy, with fast coincidence electronic collimation, 25:13232
development for intensity measurements of photons down to 100 eV, 22:19148
development for LET measurements, 25:18644 (ORNL-4584, pp 152-64)
development for measurement of iron-55 content of blood samples, 25:37713 (BNWL-1551(Pt.2), pp 72-9)
development for measurement of particle trajectories, 24:50625 (TID-25473(Vol.3), pp 103-16)
development for neutron detection, 23:33383 (CEA-CONF-1235)
development for personnel neutron dosimetry at 10 to 500 keV, 23:22103
development for radioisotope imaging in vivo, 25:57774
development for readout of optically or thermally stimulated exoelectron emission dosimeters, 25:57834
development for use as high pressure gas target for studying $\mu^- + p \rightarrow n + \tau$/sub μ/ interactions, 21:45418
development for use in LET spectrometer for calibration of Concorde SST aircraft radiation rate meters, 23:50172 (AWRE-O-57/69)
development for use in radiometric analysis, 22:33212
development for x-ray astronomy, (E), 24:30086
development in Czechoslovakia, 21:30715
development in Poland, review of, 25:15907
development of alpha-beta, for health physics, 21:8640(R) (IDO-17211)
development of anticoincidence system for carbon-14 determination on Mars for life detection, 24:27348 (N-70-15606)
development of Bonner multisphere boron trifluoride, for neutron dosimetry and spectroscopy, 25:10811 (CEA-CONF-1685)
development of boron trifluoride, for nuclear materials safeguards measurements, 23:16062(R) (GA-9077)
development of boron trifluoride, for passive assay of plutonium scrap, 25:23764(R) (BHO-66-2)
development of boron trifluoride, for radiometric analysis of plutonium-containing wastes, 24:428
development of boron trifluoride, with neutron-sensitive criticality alarm system, 21:45344 (BNWL-481-4, pp 46)
development of boron-trifluoride, for measuring thermal neutron flux, 21:12643 (UCRL-50007-66-1, pp 22-4)
development of cascade of multiwire, for high-energy charged particles separation, 25:37641
development of coincident boron trifluoride, for plutonium determination in fissionable materials, 24:44236 (AD-703616)
development of flat-response boron trifluoride, by adjoint transport calculations, 21:3258
development of flowthrough, for monitoring helium-3 and krypton-85 in natural gas lines, 25:4352
development of gamma-compensating boron trifluoride dc, for thermal neutron flux measurements in gas-cooled reactors, 21:19968
development of gas recoil, with electronic collimation for fast neutron spectroscopy, 25:18749
development of gas-filled, 22:11944(R) (AECL-2780)
development of gas-flow, 21:2651(R) (AECL-2612)
development of gas-flow, with beryllium and mylar side windows, 21:33954(R) (AECL-2687)
development of helium-3, for detection of fission neutrons from superheavy elements, 25:10814 (JINR-P13-5391)
development of high-efficiency boron trifluoride, for neutrons, 24:27363
development of high-resolution multiwire, for high-energy secondary beam instrumentation, 25:49007
development of high-temperature helium-3, for detection of epithermal and thermal neutrons, 21:32451
development of hybrid spark chamber—, 25:15940
development of in-core boron- and lithium-coated, for pulsed reactors, 24:5553
development of large surface, for use as radiation detectors, dosimeters, and spectrometers, 21:12630 (KFK-411)
development of large-area, for measurement of plutonium-239 lung burden in man, 25:57998 (NIRS-Pu-8)
development of large-area, for monitoring human lungs for plutonium, 25:51970 (NIRS-Pu-6)
development of long, for high-rate neutron detection, 25:4354
development of low-background, for electrons and x rays, 21:1603
development of low-level, for determining argon-39 content in atmosphere, 22:6577
development of modified Rossi, for LET spectra measurements, 24:44250 (EUR-4452, pp 327-41)
development of Moxon—Rae, 21:19296 (UCRL-50001-66-1, pp 1-40)
development of multiwire, 23:33403
development of multiwire, 24:499
development of multiwire position-sensitive, 25:2449
development of multiwire position-sensitive, using scanning electron beam readout, 24:50623 (TID-25473(Vol.3), pp 75-8)
development of multiwire, for in vivo detection of traces of plutonium in lungs, 21:16102 (CEA-R-3027)
development of multiwire, for particle detection and ionization measurement, 25:48916
development of multiwire, for thyroid imaging of gamma-excited characteristic x rays, 25:21387 (UCRL-20229)
development of multiwire, review of, 25:18796
development of parallel-plate and multiwire, 23:15346(R) (ORO-1316-70)
development of position sensitive multiwire, 24:16836 (UCRL-19363)
development of position-sensitive, 25:8470 (JUL-CONF-4, pp 1-10)
development of position-sensitive, 25:44584 (NYO-844-84, pp 57-9)
development of position-sensitive multiwire, 25:8477 (JUL-CONF-4, pp 121-40)
development of position-sensitive multiwire, for thyroid scanning, 25:10810 (CEA-CONF-1668)
development of proton-recoil, for fast neutron spectroscopy, 25:42106 (JAERI-13580)
development of proton-recoil, for neutron spectroscopy, 24:7646(R) (IITRI-578-P-33-12)
development of proton-recoil, for neutron spectroscopy, 25:42048 (ANL-7710, pp 263-364)
development of Rossi-type, for measurement of LET spectrum, 23:50139
development of tissue-equivalent coincidence, for determination of simulated radioisotope accumulation on cell membranes, 24:44252 (EUR-4452, pp 363-72)
development of tissue-equivalent pocket, for electrons and photons, 25:15948 (CEA-N-1393)
development of wall-less proton-recoil, for neutron spectroscopy in critical assemblies, 24:48301(R) (IITRI-578-P-33-18)
development of wall-less spherical, for microdosimetry of charged particles, 24:21022 (CEA-CONF-1444)
development of wall-less tissue-equivalent, 25:21399
development of wall-less, for microdosimetry, 24:44245 (EUR-4452, pp 219-33)
development of wall-less, for neutron spectroscopy, 23:26558(R) (IITRI-578-P-33-6)
development of wall-less, for neutron spectroscopy at critical assemblies, 23:16134(R) (IITRI-578-P-33-3)
development of wide-range, for use as neutron dosimeter, 21:46999(R) (AERE-PR/HPM-11)
development of wire, 23:43561
development of wire, with on-line computer for meson (π^-) beam profile monitoring, 25:13297 (JINR-P13-5473)
development of, review of, 23:24420 (CEA-CONF-1232)
development with gamma compensation for monitoring tritium, 23:50123 (UCRL-50007-69-1, pp 1-5)
efficiency and time resolution measurements of multiwire, for beam monitoring, 24:9634 (COO-1195-176)
efficiency factor for dysprosium activation analysis using, 21:30091(R) (ANL-7210)
efficiency for beta monitoring of environmental samples, 25:2448
efficiency for neutron counting in plutonium fluoride determination, 22:48811 (ANL-7402)

efficiency for radioactivity control measurements in water, 23:21655 (SZS-1/69)
efficiency of 2π-methane flow, for counting sulfur pellets with phosphorus-32, 23:9709
efficiency of bare and moderated boron trifluoride gas-filled, for isotropic neutron fluxes, 21:1609
efficiency of boron trifluoride, for neutrons at 0.024 to 0.111 eV, absolute measurement of, 25:48941
efficiency of copper-walled carbon-dioxide-filled, variations in, 24:46479
efficiency of ethane gas in, for measurement of tritium, 21:32114
efficiency of internal, for absolute measurement of radioisotope activity, 22:14776
efficiency of multiwire, 24:33938
efficiency of paraffin-embedded boron trifluoride, for neutrons up to 50 MeV, 25:48928
efficiency of VA-Z-530, for determination of beta activity in water, 23:35466(T) (ORNL-tr-2149)
electric breakdown protection circuits for, 23:47738 (NYO-2740-6, pp 199-206)
electrodes for design of foil-supported, 25:57750
electron avalanches in binary mixtures with xenon filling gas in, light emission from, 24:39287
electron avalanches in, statistical analysis of, 24:2471
electron capture in boron-trifluoride, method for determining, 21:12667
electron multiplication in, statistics of, 21:26180
electronic equipment associated with 4π, description of, 22:6606
electronic equipment for, application of Harwell 2000 series, 21:22125 (AERE-M-1832)
end-effect elimination in, using field tube pulses, 22:36042
energy absorption and ionization in tissue-equivalent, for low-energy x-ray detection, 22:38050
energy resolution of position-sensitive, 22:36023(T) (ANL-Trans-621)
energy resolution of x-ray spectrometers of, for determination of elements with adjacent atomic numbers, 22:43097
energy response for neutron production in lead below 10 and above 15 GeV, 23:25652
errors in hydrogen- and methane-filled proton-recoil, for neutron spectroscopy, due to energy dependence of energy loss per ion pair formed, 24:5918
fabrication and performance of xenon-filled, for location of plutonium in wounds, 23:14007
fabrication and performance of, for $4\pi\beta$—γ coincidence measurements, 23:31521
fabrication and testing of nitrogen-14, for neutron energy calibrations in radiobiology, 25:48913
fabrication and testing of x-ray, 21:3308
fabrication of 4π, method for mounting anode for, 25:2464
fabrication of Charpak multiwire, method for winding wires for, 25:2465
fabrication of, design of wire-winding device for, 25:44691
fabrication using beryllium for low-energy x-ray detection, 23:35456 (AERE-M-2193)
fabrication using beryllium for neutron detection, 23:35456 (AERE-M-2193)
filling gas for, effects of contaminants in methane, 24:5898
filling gas mixture for high-resolution, 25:15895
finite-size effects in proton-recoil, spectral distortion from, 23:49582 (ANL-7410, pp 339-86)
gain stabilization for, feedback system for, 25:18658
gas amplification factor for xenon-filled, equation for calculation of, 25:2730 (ORNL-4570, pp 44-6)
gas amplification in, formula for, 21:24199
gas amplification in, mean value and variance of, 24:4454
gas amplification in, using argon and nitrogen, 21:10664
gas discharge process in multiwire Charpak, 24:19197 (DESY-69/49)
gas discharge process in multiwire Charpak, 24:41692(T) (SLAC-Trans-121)
gas flow system for tissue-equivalent, design of constant pressure, 23:47735 (NYO-2740-6, pp 108-12)
gas for, production of carbon-14-labeled carbon dioxide, 21:36070
gas pressure control for flow-type, 23:13974 (BNWL-715(Pt.2), pp 181-225)
gas pressure control in, design of regulator for, 21:28136
gas pressure stabilization in flowthrough, system for, 25:2453
gas system regulator for, in space flight x-ray astronomy, 21:22134 (UCID-15128)
geometrical effects in proton-recoil, for neutron spectroscopy correction for, 24:5919
geometry for microdosimetry, path length distributions in cylindrical, 22:38052
model of, solid-state detector, 22:37977 (CONF-670545-, pp 17-35)
neutron spectra measurements in ZPR-6 Assembly 6 using proton-recoil, results of in-core, 23:49581 (ANL-7410, pp 73-227)
neutron spectral measurements using proton-recoil, description of electronics for in-core, 23:49582 (ANL-7410, pp 339-86)
noise problems in detection of low-level beta particles, 23:29192
operating characteristics of wall-less, shape determination, resolution, and boundary diffuseness studies for determining, 23:47736 (NYO-2740-6, pp 113-30)
operation and performance for detecting alpha and beta particles, 23:9699 (PHS-999-RH-32)
operation and performance for low level counting of tritium, 25:37584
operation and performance for reactor neutron detection and measurement, 23:38246 (KAPL-M-6961)
operation and performance of multiwire, with high spatial resolution, 25:430
operation and performance of spherical, with anticoincidence detector for carbon-14 determination in high radiation background, 25:10843
operation and performance of telescope, for magnetic spectrograph, 25:32247
operation and theory of tissue-equivalent Rossi, for neutron dosimetry in tissues, 25:23856 (BNWL-SA-3561)
operation in gamma-cancellation mode for detection of neutrons from pulsed electron linear accelerator, 23:35485
operation of boron trifluoride, for determining power reactors, 23:43213(P)
operation of methane and argon—methane $4\pi\beta$, analysis of, 22:21327
operation of multiwire position-sensitive, 24:39366
operation of multiwire, improvements in, 24:27379
operation of precise position-sensitive multiwire, 25:23769 (JINR-P13-5628)
operation of, method for determination of end of counting rate plateau for, 25:396
performance for analysis of reactor noise, limitations in, 22:49084
performance for distinguishing protons from mesons (π) in cosmic radiation by relativistic rise of most probable energy loss, 22:36044
performance for dosimetry of protons in microscopic tissue volumes, 23:50530
performance for electron-capture ratio measurements, method for calculating corrections to, 24:36605
performance for gross beta counting of environmental materials, 23:21936 (FRL-3)
performance for high-resolution x-ray spectroscopy, 25:48963
performance for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance for measurement of spectra of soft x radiation, 23:45594
performance for monitoring of krypton-85, 21:16142 (NYO-841-5)
performance for neutron dose distribution measurements in biological materials, 25:6696 (CONF-691106-, pp 129-39)
performance for neutron monitoring, effects of snow on, 22:45308
performance for plutonium determination using coincidence methods, 25:364 (AD-707706)
performance for scanning human lungs for measurement of plutonium-239 deposition, 25:37801 (EUR-4612, pp 469-82)
performance for study of cosmic-ray intensity variations, 23:41009
performance for ultrasoft x rays, anomalies in, 24:14263
performance in analysis of scrap for plutonium-240 using 4π polyethylene moderated assemblies, 24:39172(R) (LA-4457)
performance in broad-range magnetic spectrometers, 21:32406
performance in measurement of neutrons in BBRR, 21:25714 (BNL-11245)
performance in radiation dosimetry, book on, 21:17901
performance in reactor control circuits, 21:4415
performance in spectroscopic measurements, electric field effects on, 24:47891 (ANL-7610, pp 369-464)
performance limitations of flowthrough, using krypton—methane mixture, 23:17757
performance of 10 cm Rossi, for measurement of LET spectra, 24:44331 (EUR-4452, pp 137-52)
performance of $4\pi\beta$, effects of extraneous gamma scattering on, 21:4695
performance of $4\pi\beta$, effects of extraneous gamma scattering on, 21:4695
performance of banks of boron trifluoride-filled, for determining neutron spectra, reproducibility of, 22:49112
performance of boron trifluoride, and multichannel analyzers for reactor noise measurement, 21:8059
performance of boron trifluoride, for neutron dose equivalent rate evaluation, 21:8594
performance of boron trifluoride, for personnel neutron dosimetry, 25:18800(T) (SC-T-713009)
performance of boron trifluoride, for thermal neutron flux measurements, 23:4839 (ORNL-TM-2334)
performance of boron trifluoride, for thermal neutron spectra in reactors, 21:6269
performance of boron-10-coated, for fast neutron detection in intense transient gamma field, 22:43053
performance of boron-10-coated, for neutron detection in intense gamma fields, 23:2573
performance of boron-10-lined, high temperature and gamma radiation effects on, 24:39266
performance of boron-lined, for in-line D_2O activation analysis, 24:4442
performance of cylindrical, for determining stopping powers of gases for protons, 24:2467
performance of end-window flow, for measurement of surface adsorption of tritiated sodium dodecyl sulfates from aqueous solution, 24:16849
performance of gas-flow, effects of plateau shifting on, 25:46435
performance of gas-flow, for monitoring krypton-85 in natural gas producing wells, 23:24437 (UCRL-50007-68-2, pp 46-50)
performance of helium-3, for fast neutron spectrum in critical assemblies, (E/T), 25:34409
performance of helium-3, for neutron detection, 24:18901(R) (LA-4320)
performance of helium-3, for time-of-flight measurements of thermal neutron spectra, 21:26187
performance of helium-3-filled, for fast neutron spectroscopy, 21:32367 (ANS-SD-2, Paper 8)
performance of Hurst, for fast neutron dose rate measurements, 23:4839 (ORNL-TM-2334)
performance of Hurst, for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance of hydrogen and methane filled, for fast neutron spectra distribution in water, 25:26037
performance of hydrogen-filled, for detection of neutrons at 25 keV, 24:9658
performance of lead-plate quantameter for detection of mesons (π^0) from neutrino interactions in bubble chamber, 25:424 (UH-511-83-70)
performance of liquid sodium monitoring, for detection of fuel pin failure, 24:52761
performance of low-pressure multiwire, using hydrocarbon filling gases, 25:37589
performance of methane gas flow, for environmental survey near reactors, 23:26526
performance of methane, for argon-41 measurement, 21:12262
performance of methane-filled, effects of contaminants in gas filling on, 24:44261
performance of miniature boron trifluoride, for neutron flux determination in water phantoms, 23:50157
performance of moderated uniform-sensitivity boron trifluoride, for fast neutron flux measurements, 22:28118
performance of neutron, for remote determination of plutonium in process materials, 22:25443 (ANL-7375, pp 46-94)
performance of overfilled 515G, for recording cosmic-ray intensities, 22:47345
performance of polyethylene-moderated boron-trifluoride long, for fast neutron flux density measurements, 24:25270
performance of position-sensitive array of boron trifluoride, for neutron detection, 25:8473 (JUL-CONF-4, pp 30-47)
performance of position-sensitive, for use in magnetic beta spectrometer, 25:8472 (JUL-CONF-4, pp 22-9)
performance of precision long counter using boron trifluoride, in comparison to ionization chambers for neutron absorbed dose measurements, 23:11752 (BNWL-481-2, pp 155-200)
performance of proton recoil, for fast neutron spectrum measurements, 25:36991(R) (GULF-RT-10523)
performance of proton recoil, for neutron spectra, 21:19940
performance of proton recoil, for time-of-flight neutron spectra measurements, (E), 25:60156(R) (GULF-RT-A-10800)
performance of proton-recoil, for fast neutron flux measurements, 25:13216
performance of proton-recoil, for fast neutron spectroscopy, 23:43584
performance of proton-recoil, for neutron spectra measurements of radioisotope sources, 25:15917(T) (ORNL-tr-2415)
performance of proton-recoil, for neutron spectra measurements in water, 24:31730
performance of proton-recoil, for neutron spectra measurements of radioisotope sources at 10 keV to 10 MeV, 24:41685 (NP-18359)
performance of proton-recoil, for neutron spectroscopy at 200 eV to 1 MeV, 25:2481
performance of pulse-mode boron-10-lined, for reactor noise measurements, 24:41676
performance of Rossi tissue-equivalent, 22:38054
performance of single-wire liquid xenon-filled, for alpha particles, 25:46626
performance of spherical, for measuring microscopic dose distribution, effects of electrode design on, 21:30867(R) (N-67-11985)
performance of tissue equivalent spherical, for dosimetry, 21:28585(R) (BNWL-247)
performance of tissue-equivalent liquid filled, for measurements of radiation dose distribution in relation to LET for accelerator personnel, 22:38328
performance of tissue-equivalent spherical linear energy transfer, for use in dosimetry, 21:19976 (CERN-66-33)
performance of tissue-equivalent type, for dosimetry of fast neutrons, 21:1765
performance of tissue-equivalent, for dosimetry of protons at depth in tissues, 23:6436(R) (N-68-23396)
performance of tissue-equivalent, for neutron dosimetry, 24:31746
performance of total absorption, for measurement of tritium, 24:4419 (CEA-R-3886)
performance of xenon, for x-ray detection relative to other detectors, 25:15900
performance of, for particle localization, 25:45912 (CEA-N-1390, pp 91-137)
performance testing of 4π, by single-channel counting, 21:1635
power supply for, stabilized high-voltage, 22:47326(P)
preamplifier for proton-recoil, wide band charge-sensitive, 23:29206 (ANL-7517)
preamplifier for, design and performance of linear-gated charge-sensitive, 23:33404
preamplifier for, design of cascode, 21:13946(R) (ANL-7279)
preamplifier for, for use in intense rf radiation environment, design of field-effect transistor, 21:36398
preamplifier for, wide-band low-noise voltage-sensitive, 25:32233
preamplifiers for boron trifluoride, design of field-effect transistor, 21:34516 (ORNL-4091, pp 15-21)
preamplifiers for proton-recoil, development of modified cascode, 21:10647
preamplifiers for, design of wide-band FET charge-sensitive, 21:45345(R) (IDO-17234)
properties of boron fluoride neutron, 21:28250
properties of gasflow system in, analysis of, 22:49326 (NYO-2740-5, pp 6-200)
properties of multiwire, 25:6548
properties of multiwire electronegative vapor-filled, operating in proportional and semiproportional region, 24:11803
properties of Rossi tissue-equivalent spherical, for dosimetry, 25:57853

proton energy loss in hydrogen-filled, for neutron slowing-down time spectroscopy, 23:29215
pulse amplifier circuit for multiple wire, 24:29573
pulse amplifier, trigger, and memory for position-sensitive multiwire, 24:11808
pulse analysis of proton recoil, for gamma discrimination in neutron spectroscopy, analog computer for, 25:4362 (CEA-N-1314)
pulse analysis system and computer program for Rossi LET, 23:11877
pulse analyzer for use in prospecting, reference-signal comparison, 25:18652(P)
pulse attenuation by equal integrating and differentiating time constants, calculations of, 23:43523
pulse attenuation by equal integrating and differentiating time constants, calculation of, 23:43524
pulse attenuation in, by noninteracting RC integrating and differentiating networks, 23:38286
pulse converters for use in neutron dosimetry, design of pulse height-to-clock, 24:11792
pulse discrimination in, with respect to rise time, 22:43074
pulse discriminator for, design and performance of rise-time, 23:31541
pulse height analyzer for satellite-borne, design of multichannel, 23:26543
pulse height distributions from, effects of anode materials on intensity dependent shifts of, 21:16152
pulse height of, effect of anode voltage on, 22:21314 (ORNL-4219, pp 30-5)
pulse integrator for, for dosimetry, design of, 23:2678(P)
pulse readout circuit for gas flow, performance of voltage, 25:42052 (JAERI-13725)
pulse rise time discrimination in x-ray, circuit for, 23:2593
pulse rise-time discrimination for electronic collimation in, for proton-recoil neutron spectroscopy, 25:6553
pulse risetime analysis of helium-3, for fast neutron detection, 25:37596
pulse risetime discrimination for helium-3, for fast neutron spectroscopy, 24:4479
pulse risetimes in, method for determining, 23:14001
pulse shape analysis in multiwire, for secondary beam monitoring, 24:9641 (SLAC-108)
pulse shape discrimination methods for neutron spectroscopy, 24:16876
pulse shape discrimination systems for, theory of, 25:8516
pulse shape discriminator for background reduction for x-ray, 24:33886
pulse shaper for, design of rise-time, 21:36362
pulse shapers for, pulse attenuation by, 25:18700
pulse size from, effects of space charge on, 21:28249
pulse size in sealed tissue-equivalent, factors affecting, 24:479 (BNL-14063)
pulse spectra from single pair of ions in, 23:19928(T) (ANL-Trans-739)
pulse-height data from, use of programmed distribution generator for evaluation of, 21:39179 (BNWL-494)
pulse-height distributions from boron trifluoride, wall effect corrections for calculating, 22:16865
pulse-height risetime analysis for helium-3-filled, methods for optimizing, 23:35509
pulse-height spectra from, method for efficient representation of, 22:16866
pulse-shape discriminators for gamma discrimination in proton-recoil, for neutron spectroscopy, 25:10857
pulse-stretchers for, design of, 24:44376(P)
pulses from, amplifier with equal RC time constants for attenuation of, 23:16116
pulses from, use of CRT tubes for scanning, 21:28304 (KFK-552)
pulses in argon—methane, spurious, 25:23808
pulses in methane-filled, time distribution of spurious, 23:35482
radiation balance of multiwire γ-ray, calculation for, 23:43522
radiation effects on boron trifluoride, pulsed x, 21:17947
radiation effects on sensitivity of boron trifluoride, with aluminum cathode, high-flux neutron, 22:16965 (CEA-R-3343)
readout for position sensitive, ferrite-loaded delay-line, 24:11819
readout system for 5000-wire design of, 25:15941
readout system for position-sensitive, electromagnetic delay line, 25:10846
readout system for wire, magnetostrictive delay line, 25:48945
readout systems for multiwire, 23:666
resolution and pulse correlations of gas proportional scintillation detector for x-ray detection, 24:11820
resolution of argon—methane, energy dependence of pulse-height, 25:8505
resolution of boron- and cadmium-loaded polyethylene sphere neutron, 21:10606 (LA-3595)
resolution of remmeter boron-trifluoride, for measuring collimated neutron beams, 21:12688 (UCRL-50007-66-1, pp 25-7)
resolution of, for detection of low-energy x radiation, 21:34472 (ORNL-4091, pp 38-48)
resolution of, intrinsic, 22:40430
resolution of, measurement of, 25:15894
resolution of, statistics of electron avalanches for calculation of ultimate, 25:10838
resolution of, theoretical, 22:10550
resolution of, theory of, 22:23291
resolving time of, live-timer system for determining, 21:31777(R) (MLM-1388)
response curves for AARR boron trifluoride, effects of position on, 22:32960 (ANL-7310, pp 31-135)
response for alpha monitoring, effects of source distance on, 23:43519 (LA-4168)
response function for low-energy x radiation, 24:44281
response functions for 4π proton-recoil, effects of finite size on, 22:43052
response functions for cadmium-shielded polyethylene-moderated boron trifluoride, for neutron detection, 25:39709 (ORNL-TM-3451)
response functions of helium-3 filled, for neutron spectroscopy, 24:2483
response of 4π, for gamma radiation, 22:14770
response of $4\pi\beta$, to gamma radiation and internal conversion electrons, 23:29167
response of boron trifluoride, for neutron detection in mixed gamma—neutron fields, 24:2474
response of boron-trifluoride fast-neutron, with hydrogenous moderators, 21:22142
response of boron-trifluoride neutron, with hydrogenous moderators, 21:22162
response of Saclay and Cadarache research reactor, measurement of high temperature, high neutron flux, and time, 24:18698 (CEA-CONF-1454)
response of system with array of boron trifluoride, for neutron detection, 23:19983
response of water-moderated boron trifluoride, for neutron detection, 23:29156
sample handling system for gas-flow, for x-ray spectroscopy, 25:37616
sensitivity for measuring activity of beta sources, method for determining stability of, 22:14768
sensitivity for radioactivity monitoring of water, 25:34870 (SZS-2/71, pp 12-22)
sensitivity of $4\pi\beta$, method for measuring gamma, 21:1628
sensitivity of boron-10-lined and boron trifluoride-filled, for neutron detection in mixed gamma—neutron field, 21:45333 (AD-634621)
sensitivity of boron-lined, for neutron detection, effects of high-level gamma radiation on, 23:35486
sensitivity of helium-3, for gamma radiation, 21:26187
sensitivity of lithium-6 and helium-3 neutron spectrometer, corrections for, 21:32419
sensitivity of moderated boron trifluoride, for neutron dosimetry, 22:21362
sensitivity of paraffin-moderated boron trifluoride, (E/T), 21:8615
sensitivity of proton-recoil, for 0.1- to 6.3-MeV neutrons, determination of rem, 21:43289
space charge effects in, 23:41029
spectral shift in solid-wall, 23:50173 (BNWL-1051(Pt.2), pp 184-6)
stability of x-ray, effects of extreme operating conditions on, 22:2346 (ORNL-IIC-10(Vol.1), pp 376-92)
stabilizer circuit for gamma spectroscopy using, spectrum, 23:2638
standardization of, using external sources and internal tritium sources, effects of impurities on, 25:20932
testing of Benjamin-type, for microdosimetry, 23:13974 (BNWL-715(Pt.2), pp 181-225)
testing of boron trifluoride, as function of anode configuration, 21:34472 (ORNL-4091, pp 38-48)
testing of delayed-neutron, for DMTR, 21:34159 (TRG-Report-1416)
theory of Rossi, for dosimetry, 24:25304 (CEA-R-3964)
theory of spherical, for neutron dosimetry, 24:31744
time resolution of multiwire, 24:33938
timing and spatial resolution of multiwire, 24:28477 (COO-1195-182)
use as spectrometer for studying solar soft x-ray spectrum, 21:41232
use for $4\pi\beta$-γ coincidence measurements of decay rates of radioisotopes, 21:14466
use for $4\pi\beta$-γ coincidence measurements of decay rates of radioisotopes, 21:14467
use for controlling streamer chambers used in recording stopping of slow mesons, 22:6648
use for determining energy transfer by alpha particles of polonium-210 and plutonium-239, 23:12037
use for dosimetry of alpha emitters in lung, 23:4837 (BNWL-SA-1765)
use for dosimetry of transuranium elements in human lungs, 23:41330
use for fast neutron spectrometry, 21:4707
use for measuring pulse spectrum produced by α particles from collimated and uncollimated sources, 21:28591(R) (NYO-2740-4)
use for measuring small-angle x-ray scattering, 22:49169
use for measuring tritium in atmosphere and liquids and on surfaces, 23:7738(T) (WAPD-Trans-102)
use for triggering streamer chambers for investigating meson (μ) interactions, 21:8580 (JINR-P13-2998)
use for x-ray fluorescence analysis of binary and ternary systems, 22:30831
use in $4\pi\beta$—γ coincidence measurements of neutron-activated gold foils, internal conversion and gamma corrections for, 22:21325
use in alpha particle monitoring on floors of laboratories, 21:17852
use in coincidence spectrometers for analyzing low-level radioisotopes, 23:11782
use in coincidence with semiconductor detectors for detection of charged particles from neutron-induced nuclear reactions, 21:30716
use in counting β activity in airborne particulate matter, 21:26005
use in detection of single photoelectrons, 21:16161
use in determining tritium content in water, 21:3178
use in determining tritium in natural waters, 21:36146(R) (IAEA-3162-1)
use in fast Moessbauer data-acquisition system, 22:2397 (ORNL-IIC-10(Vol.1), pp 142-56)
use in low-level x-ray spectrometer, 23:726
use in neutron spectrometers, 21:28278(P)
use in portable stress analysis equipment, 21:32326 (COO-578-P-28-10)
use in radioisotope standardization, 22:6547
use in radiometric hygrometers, 21:36120
use in radiometric instruments, 21:43204
use in radiometric techniques for analysis of ores and coal, 21:32266
use in Simpson Pile for cosmic neutrons, (E), 23:18459(T) (SC-T-69-1009)
use in sub-Geiger region, 21:4706
use in telescopic arrangement for detection of charged particles from fast neutron reactions, 22:43033
use in telescopic arrangement of detectors for charged particles from fast neutron reactions, 22:43065
use of 4π, for measuring beta counting efficiency of activated gold foils, 21:28238
use of 4π-recoil, for fast neutron spectroscopy, 21:32366 (ANS-SD-2, Paper 4)
use of boron fluoride (BF_3), for neutron flux measurements comparison with indium foil, 23:33080(R) (BNWL-1053)
use of boron fluoride (BF_3), for neutron flux measurement comparisons with indium foil, 23:31236(R) (BNWL-1039)
use of boron trifluoride, cosmic neutron lifetime measurements in, 22:12576
use of boron trifluoride, for measuring neutron flux distribution near ends of uranium fuel rods, 21:21685
use of boron trifluoride, for monitoring boron concentrations in dissolvers used for recovery of uranium from spent zirconium-clad fuel elements, 21:8640(R) (IDO-17211)
use of boron trifluoride, for nuclear criticality alarm system, 21:4685 (BNWL-SA-517)
use of boron trifluoride, for spatial detection of neutrons, 21:3280
use of boron trifluoride, in 0.025- to 6-eV neutron crystal spectrometer, 21:43224 (CNAEM-33)
use of boron trifluoride, in radiometric hygrometer, 21:17906(P)
use of boron trifluoride, in spherical neutron remmeters, 22:28183
use of boron trifluoride, in well logging system for detecting epithermal neutrons, 23:650(P)
use of boron trifluoride, with geometrically designed moderator for detecting fast neutrons, 22:23299
use of boron trifluoride, with neutron source for measuring calorific values of heavy oils, 23:47868(T) (NSJ-tr-152)
use of cadmium sulfide, for gamma detection, 21:19931
use of cylindrical gas-discharge, for cosmic-ray absolute intensity measurements, (E), 22:47850
use of end-window, for x ray detection in microanalysis, 22:6612
use of gamma-insensitive, for determining plutonium-238 as plutonium oxide content in 55-gal waste disposal drum, 21:45367 (MLM-1373)
use of gas, for detection of cosmic mesons (π) and protons at energies near or greater than 100 GeV, 22:365
use of gas-flow, for measuring plutonium-239 in persons accidentally exposed, 21:16357
use of helium-3, for antineutrino and collapsing star detection, 25:8550
use of helium-3, for measurement of thermal-neutron beam densities, 21:26170
use of helium-3, for neutron spectroscopy, 22:10576 (CEA-R-3310)
use of Hurst tissue-equivalent, for estimating tissue dose to man from cosmic neutrons, 22:2437
use of Hurst, for fast neutron dosimetry, 24:27592
use of hydrogen-filled, for measuring fast neutron spectra in ZEBRA, 21:21792
use of hydrogen-filled, for neutron spectrum measurements in VERA critical assembly, 21:19964
use of internal, for measuring activity of carbon-14, 22:14775
use of low background 4π, for measurement of low β activity, 21:8583(T) (AEC-tr-6641, pp 185-91)
use of moderated boron trifluoride, in beam monitoring and rapid cutoff system for 88-in. cyclotron, 22:3562 (UCRL-17728)
use of multiwire, to select and localize charged particles, 22:36059
use of polyethylene-moderated boron trifluoride, for monitoring neutrons in facility radiation and contamination alarm system, 21:22132 (ORNL-TM-1767)
use of proton-recoil, for measurement of fast-neutron spectra, 21:10638
use of rarefied-gas, for studying energy deposition spectra of 1.7-MeV protons in microscopic volume, 25:22582
use of spherical tissue-equivalent, for measurement of microscopic radiation energy density distribution in tissues, 21:12693
use of three carbon dioxide flow, with silicon detector for fast neutron spectroscopy, 23:38311
use of tissue equivalent spherical, in radiation survey instruments, 21:32388
use of xenon-filled, in search for x rays from M-87, (E), 23:36345
use of, combined with scintillation detector for determination of air radioactivity, 21:12838 (LA-3583)
use of, for measuring tritium contamination on surfaces, 21:6484 (AD-640810)
use of, for neutron detection in continuous control of Hanford Plutonium Reclamation Facility, 21:3143 (ISO-SA-28)
use of, to determine tritium-labeled, 21:12335
use with solid sources, in electron-capture studies, 23:43569
uses for 4π-counting of sources deposited on thin foils, correction for foil absorption in, 21:34
uses in high-energy physics, 25:29373
wall effect calculations for cylindrical, method and tables for, 23:41002
wall effect calculations for helium-3-filled, for neutron spectroscopy, 23:35533
wall effect in helium-3-filled, for detection of thermal neutrons, 23:33411
wall effects in spherical tissue-equivalent, 24:44248 (EUR-4452, pp 269-81)
wall effects in tissue-equivalent, for microdosimetry, 25:55058
wall effects in, theory of, 25:55002 (NYO-2740-8, pp 7-146)

window for, for electron microprobe, design of, 21:10706
windows for flow-type, used in x-ray fluorescence analysis, 23:29162
windows for rocket-borne x-ray, preparation of plastic, 25:21417
windows for, design of formvar-coated pyroxylin, 21:32401
windows of, casting Formvar films on water for, 21:14459

RADIATION DETECTORS, SCINTILLATION
see also Scintillation Cameras
accuracy of liquid tank, for neutron capture cross-section measurements, 25:31173(R) (RPI-328-200)
adhesives for, use of water soluble epoxy compounds as, (E), 21:1602
amplifier for operation in fast coincidence circuit, 25:21389
amplifier for, design of, 25:32231
amplifiers for, design of linear pulse, 22:12585
amplifiers for, pulse shaping in, 22:8344
anisotropy of anthracene, for alpha detection, 24:22999
arrangement for large-area cosmic shower recording, (T), 21:7041
background calibration for quenching and sample volume in liquid, using external standard channels ratio method, 23:21977
background due to chemiluminescence in liquid, treatment method for reducing, 25:42071(P)
background in low-level beta, anticoincidence method for reduction of cosmic ray, 24:31685
background properties of balloon-borne x-ray telescope, secondary, (E), 25:39715
background reduction in liquid, for measuring weak beta sources, 22:40362
background reduction in thallium-activated cesium iodide and sodium iodide, for determination of plutonium-238 and -239 in human lungs, 23:29204
background reduction in thallium-activated, use of Cherenkov anticoincidence detector shield for cosmic-ray, 22:23279
background reduction in, formulas for calculating shielding necessary for, 21:14435 (NP-16534)
background reduction of thallium-activated sodium iodide, use of massive cosmic-ray shielding for, 22:23259 (BNWL-SA-1516)
beta spectra obtained by, analysis of numerical methods for unfolding, 21:32472
bibliography on liquid, 23:4807 (NP-17693)
book: Applied Scintillation Gamma Spectrometry, 23:41052
book: Current Status of Liquid Scintillation Counting, 25:4358
book: Organic Scintillators and Liquid Scintillation Counting, 25:32234
book: Scintillation Spectroscopy of Gamma Radiation, Vol. 1, 22:8377
calibration and efficiency of plastic, for gamma-ray measurements, 25:48961
calibration and quality control of, use of alpha sources for, 23:7735(R) (IN-1255)
calibration and testing for krypton-85 monitoring in atmosphere, 25:18638 (CONF-700816-(Vol.1), pp 143-74)
calibration and use of 5-inch lithium-6 glass, 24:33881
calibration and use of lithium-6 glass, for neutron detection, 23:11758 (GA-9048)
calibration for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
calibration for fast neutrons, method for, 25:44597
calibration for iodine-131 monitoring in water, 25:15881 (BNWL-B-41)
calibration for measurement of α activity on filter samples, 21:28495
calibration for plutonium-239 and americium-241 surface contamination measurements with overburden, 23:50483 (UCRL-50007-69-1, pp 6-13)
calibration for plutonium-239 determination in lungs of man using neptunium-235, 25:21402
calibration for use in sediment tracer investigations, methods for, 21:36338 (INT-48)
calibration for whole-body counting, 22:6848
calibration of, 22:40358 (IAN-RS-ERA-2)
calibration of 4π, for gamma spectroscopy, 23:11820
calibration of automatic liquid, sample standardization system for, 24:5902(P)
calibration of flow-through, for carbon-14 determination, 21:17592
calibration of large proton recoil organic, for fast-neutron spectra measurements, 21:6256
calibration of lead-collimated sodium iodide, for gamma spectroscopy, 24:46504
calibration of lead-plastic sandwiches, for detection of photons in $\pi^- + p \rightarrow \gamma + n$ interactions, 23:35468 (UCLA-34-P-106-33(Rev.))
calibration of liquid NE-213, for fast neutron spectroscopy, 24:9675
calibration of liquid, design of system for automatic, 22:14843(P)
calibration of liquid, external gamma source for, 24:20984(P)
calibration of liquid, for beta spectroscopy, design of automatic system for, 22:40439(P)
calibration of liquid, for determining iron-55 and iron-56 in biological materials, 23:21619 (NYO-3086-8, pp X.1-15)
calibration of liquid, using external source and channels ratio method, 24:33933
calibration of lithium glass, for fast reactor spectrum measurements, 23:21559(R) (GA-9140)
calibration of NE-213 liquid, for fast neutron spectroscopy, 25:48955 (COO-2049-3)
calibration of NE-213 liquid, with 40-MeV neutrons, 24:3953(R) (ORNL-4433)
calibration of organic, for signal pulse height, method for, using external γ source, 21:24410 (NIRS-5, pp 1-10)
calibration of portable, for gamma dosimetry, 25:32222
calibration of proton-recoil NE-213 organic liquid, for fast neutrons, 21:46643(R) (ORNL-4134)
calibration of quark telescope, 25:23854
calibration of silver-activated zinc sulfide, for detecting alpha particles, 22:51234
calibration of sodium iodide, use of californium-252 neutron sources for, 25:4223
calibration of STSF lithium-6 loaded glass, description of, 22:47008(R) (GA-8715)
calibration of thallium-activated sodium iodide, at 3 to 12 MeV using radiative-capture gamma rays, 25:48954 (CONF-710402-(Vol.3), pp III.43-7)
calibration of thallium-activated sodium iodide, equipment and methods for, for gamma spectroscopy, 22:343 (ORNL-4118)
calibration of thallium-activated sodium iodide, for gamma spectrometry, 21:4704
calibration of thallium-activated sodium iodide, for determination of metastable technetium-99, 25:51390
calibration of thallium-activated sodium iodide, for gamma spectroscopy, 25:8535
calibration of thallium-activated sodium iodide, for gamma exposure rate measurements in natural radiation environment, 23:19938 (RT/FI-(68)54)
calibration of thallium-activated sodium iodide, for gamma spectroscopy, 22:49134
calibration of thallium-activated sodium iodide, for gamma spectroscopy in soil analysis, 23:674
calibration of three-channel liquid, by channels ratio for automatic quench correction, 24:48287
calibration of three-crystal ring-type, for measurement of iodine-131 uptake by thyroid gland in man, 22:12864(R) (ORO-2401-10)
calibration of, effects of scattered gamma radiation on, (T), 21:308
calibration of, pulse light source consisting of americium-241 alpha source and thallium-activated cesium iodide disc for in-flight, 23:639
calibration of, variable-energy Compton-scattered gamma source for, 23:26475
calibration procedure for thallium-activated sodium iodide, for detection of low-energy x radiation from plutonium, 23:24434 (UCRL-50007-68-2, pp 24-31)
canning geometry for radiation source—, 24:5934(R) (UCRL-50007-69-2)
cell design for liquid, 22:23305(P)
chamber design for counting activity of radium-containing solutions, 22:16459
characteristics for assessment of radiation dose to skin, 22:37994 (RD/B/N-1107)
characteristics for in-line gamma-absorption determination of heavy elements in solution, 24:44240 (CEA-N-1287)
characteristics of europium-activated lithium iodide, for detecting neutrons, 22:28178 (NP-17349)
characteristics of lithium glass, for detecting neutrons, beta particles, and gamma radiation, 22:33644
characteristics of moderated europium-activated lithium-6 iodide, for neutron detection, 24:19199 (HASL-222)
characteristics of moving and stationary, 24:32095
characteristics of pure and activated cadmium iodide, 25:18665
characteristics of solutes for liquid, 24:46481
characteristics of stilbene and NE 213, for neutron spectroscopy, 24:39339
characteristics of tissue-equivalent, 23:47771
characteristics of toluene-blended liquid, for tritium counting, 22:47358
characteristics of zinc telluride—oxygen isoelectronic, 23:22077
charged-particle identification in system of, electronic function generator for, 24:4436
charged-particle ionization energy loss in plastic, density effect and shell corrections to rate of, 25:48936
circuit design for detecting zero-crossing of bipolar pulses with long crossover times, 21:36371
circuit design for liquid organic, for fast neutron detection, 24:47891 (ANL-7610, pp 369-464)
circuit design for reduction of pile-up effects in sodium iodide, in gamma spectrometers, 21:6279
circuit for long, light transit-time compensator, 25:10813 (JINR-P13-5378)
circuit for measuring and recording pulse shapes and risetimes from, 23:667
circuit for neutron spectroscopy in background radiation, two-parameter, 24:36602
circuit for particle identification, multichannel analyzer, 25:23809
circuit for portable monitor, linear or logarithmic output, 24:33890
circuit for pulse discrimination in silver-activated zinc sulfide, for simultaneous detection of alpha particles and fission fragments, 22:43071
circuit for selection of slow scintillation component of stilbene, for particle discrimination and dosimetry, 23:45516
circuit for slow thallium-activated sodium iodide, high-stability nanosecond coincidence, 25:48909
circuit for telescope, for charged particle identification, 25:8530
circuit for tritium activity measurement, coincidence, 25:48923
circuit for, ringing coil pulse encoder, 25:18868
circuitry for proper positioning of scintillation points on cathode-ray tubes, design of, 25:18713(P)
circuits for absolute measurement of activity of radioisotopes, design of coincidence, 23:13981 (CEA-CONF-1190)
circuits for balloon- and rocket-borne systems for x-ray detection, 23:29188
circuits for differential gamma—gamma angular correlation measurements, errors in four-detector coincidence, 23:21945
circuits for large multisectioned liquid, coincidence, 25:35009 (ORO-2504-172)
circuits for light transit-time compensation in large plastic, 23:29218
circuits for liquid, coincidence and dead time generator, 25:44599(P)
circuits for miniaturized thallium-activated cesium iodide, for surgical use, 23:35462 (ORAU-107, pp 148-51)
circuits for neutron discrimination in gamma background, 25:18667
circuits for neutron—gamma discrimination in, design of damped RCL, 23:47751
circuits for organic, development of n—γ discriminating, 21:34479
circuits for plastic, for position detection of charged particle trajectories, 24:29574
circuits for reducing pulse pile-up in, filter, 23:24429 (LAL-1211)
circuits for sodium iodide, for gamma—gamma angular correlation measurements, 23:17776
circuits for thallium-activated sodium iodide, design of high-count-rate, 25:42127
circuits for ultra-short lifetime measurements, coincidence, 24:49777(R) (COO-1746-39)
circuits for well logging, 24:48291(P)
circuits for, description of, 21:16123 (CONF-660918-, pp 197-8)
circuits for, description of, 22:10573(P)
circuits for, design of cathode cascade with amplified feedback, 23:11795
circuits for, design of delayed coincidence, 21:45345(R) (IDO-17234)
circuits for, design of fan-in and fan-out, 21:30697 (RHEL/R-136, pp 131-51)
circuits for, design of fast—slow coincidence, 23:640
circuits for, design of modular pulse-height discriminator, 23:22035
circuits for, design of modular pulse-height spectrometer, 24:21008
circuits for, design of nanosecond pulse shaper, 22:6583
circuits for, design of pulse-shape discrimination, 22:6599
circuits for, design of transistorized linear gating, 21:17881
circuits for, development of solid-state plug-in, 21:14496 (DP-1079)
circuits for, dual-channel log rate meter, 24:27344 (DP-1202)
circuits for, efficiency of anticoincidence, 24:36614 (IFVE-SEF-69-62)
circuits for, used in E—ΔE telescope, design of fast, 23:29177
coincidence circuit design with simultaneous measurements of true and random events for, 21:26299
coincidence circuit for 1.25-meter liquid, fast-slow, 23:11900 (RPI-328-142, pp 152-63)
coincidence circuit for 1.25-meter liquid, for keV-neutron capture measurements, fast—slow, 24:14293 (RPI-328-175)
coincidence circuit using cascade-transistor trigger for, 21:6352
coincidence circuits for particle—gamma correlation measurements, 24:33873
coincidence circuits for, design of null-pass trigger as time-scale indicator for, 21:1589
coincidence methods with liquid, for measuring beta activity, statistical errors in, 23:9713
collection time constant of, effects on temperature response of output pulse height, 21:8593
collection yield of cylindrical liquid, for photons, 22:6593
collimator for 30- to 150-keV x radiation for improved angular resolution, 23:22002
collimator for measuring plutonium skin contamination, multihole, 24:20989
collimator for, design of, for use with potassium-42 and rubidium-86, 21:10998
collimator for, method for fabricating, 23:6297(P)
collimators for, evaluation of figure of merit for, 21:10623
color quenching elimination by ozonization in liquid, for activity measurement of fecal extracts, 23:35499
comparison of anthracene and plastic, for small beta-emitting sources, 21:10876 (ORNL-P-2516)
composition for liquid, development of thermodynamically stable, 25:34874(P)
computer techniques in analyses using, 22:45006
conference on, 22:40429
conference on, 24:39279
construction for study of metabolism of proteins in man, lead-shielded whole-body, 22:19392
container for liquid, development of all-metal windowless, 24:14266
containment vessel for, construction of Teflon, 21:16169
control system for automatic angular-correlation measurements, design of, 25:51888
cooling system for monocrystal, for operation at +25 to -150°C, 24:27366
counting rate and optimal dimensions for measuring concentration of beta-active gases, calculation of, 22:45285
crystal intrinsic resolution in thallium-activated sodium iodide, Monte Carlo method for determining, 22:40423
data acquisition from liquid, control system for automatic multichannel, 23:50146(P)
data acquisition system for hodoscope, for measuring decay of K_2°, 25:51896 (UCRL-20636)
data acquisition system for, CAE 90-10 computer-based, for polarization parameter measurements of $\pi + p$ interactions, 22:19155
data analysis for gamma spectroscopy, 23:41023
data analysis for gamma spectroscopy, 22:8382
data analysis for gamma spectroscopy, computer program for, 25:413 (N-70-27711)
data analysis for gamma spectroscopy, multiple linear regression, 24:27399
data analysis for gamma spectroscopy, multiple linear regression, 24:27398

data analysis for liquid counting of beta-active biological samples, computer program for, 21:18044
data analysis for liquid, automation of, 25:48925
data analysis for liquid, channels ratio method of, 24:29562
data analysis for liquid, computer programs for, 25:18693
data analysis from automatic foil counter, computer program for, 21:28194 (AERE-R-5315)
data analysis of scans by, using digital computers, 21:10995
data display system for, design of, 22:2386(P)
data for gamma spectroscopy, automatic selection for multiple linear regression analysis of, 24:4460 (AD-691424)
data from Bonner, multisphere technique for analysis of neutron, 22:36110 (LA-3700)
data from development of computer programs for, 23:41229(R) (NYO-2085-13)
data from liquid, of dual mixtures of beta sources, computer processing of, 23:2580
data from thallium-activated sodium iodide, cross-correlation techniques for analysis of, 23:33489
data from, computer analysis of, 21:8794(R) (NYO-3136-3)
data from, development of computer-based system for evaluation of, 22:12569(R) (ANL-7311)
data output from, instantaneous plotting of, for determining activity of radioisotopes, 21:43272
data processing for gamma spectroscopy, computer system for, 25:2477
data processing for liquid, developments in, 24:5891
data processing from, for EAS experiment, (E), 21:35043 (BMwF-FBK-67-43)
data processing system for liquid, for beta spectroscopy, desk-top computer, 24:36611
data processing system for satellite-borne, description of digital, 21:32470
data recording from hodoscope, control-interface unit for, 21:19947
data recording system for liquid, 25:13224
data recording system for use with, design of, 22:10827(R) (UCD-472-114)
data storage system for pulses with repetition rate up to 10 ns, 23:33401(P)
dead time losses in gamma spectrometry of very short-lived nuclides, methods for correcting, 25:48968
dead time of, method for imposing fixed, 24:31709
dead time of, used for x-ray detection, single-foil method for determining, 23:41013
deadtime correction by multipulsing differential discriminator in, 24:5910
decay time of, high-resolution time-to-amplitude pulse converter for measuring, 23:2723
decontamination of vials used with, method for rapid, 23:43753
description and performance of large diameter thallium-activated sodium iodide, for whole-body counting, 21:26202
description and performance of, for fallout monitoring and analysis, 21:1459(R) (TID-23369)
description for aerial surveying for determining plutonium concentrations, 25:34862 (EGG-1183-1517)
description for dosimetry, 24:27449
description for low-level monitoring, 23:38301
description for measuring radioactivity of clear liquids, 22:19125
description for monitoring in Thorium—Uranium Recycle Facility, 23:21940 (ORNL-TM-2463)
description for well logging x-ray fluorescence analysis, 23:35492
description of 5-(4''-biphenyl)-2-(4'-tert-butylphenyl)-1,3,4-oxadiazole liquid, 21:10619
description of anthracene flow cell, for studying amino acid metabolism, 24:31707
description of array of thallium-activated sodium iodide, for neutron time-of-flight measurements, 22:21376 (ORNL-4219, pp 1-3)
description of balloon-borne telescope for cosmic x-ray sources, (E), 25:35014
description of coincidence, for fast neutron spectroscopy with gamma discrimination, 25:39742
description of dioxan-base liquid, for aqueous samples, 24:16851
description of flowthrough liquid, for low-level beta-emitting radioisotopes, 22:25644
description of flowthrough, for failed-fuel-element detection, 22:16863
description of gallium-activated zinc oxide, for detecting alpha particles, 22:28100
description of gas, in electric field for charged-particle detection and spectroscopy, 22:45278 (JINR-P3-3904)
description of high-pressure gas, with position-independent pulse height, 22:6607
description of hodoscope array of, in crossed fields, 24:33867 (IFVE-SEF-69-22)
description of liquid helium, for neutron polarization measurements, 25:51875
description of liquid, for monitoring LAMPF beam spill, 25:50479
description of low-level beta liquid, with automatic compensation for quenching effects, 22:14794
description of multi-channel system, for Rossi-α measurements, 22:12087 (BNWL-472, pp 5.1-16)
description of multichannel, for radioisotope scanners, 24:39273(P)
description of ORELA 800-gal liquid, for neutron time-of-flight measurements, 24:5900
description of organic liquid, for neutron dosimetry at 10 to 100 MeV, 24:36630
description of organic, for fast neutron dosimetry, 24:25306 (DESY-70/5)
description of oxygen-doped zinc telluride, 22:40428
description of PAC-1S survey meter, 24:29537
description of plastic, for beta monitoring in air and water, 24:33893
description of plastic, for monitoring trace amounts of radioactive gases, 25:18744(P)
description of position-sensitive, for gamma rays, 25:18686(P)
description of rare gas-filled, for detection of fast neutrons, 21:34486
description of rocket-borne, for detection of auroral x radiation, 21:6188 (AD-636530)
description of six-foot long, for neutron time-of-flight measurements, 24:29532
description of sodium iodide, with boron-10 slab for total neutron cross section measurements, 25:51863
description of tellurium-doped cadmium sulfide, 22:40428
description of thallium-activated sodium iodide, for use as sum-coincidence gamma spectrometer, 21:39220
description of thallium-activated sodium iodide, for Moessbauer spectroscopy, 22:40458
description of thallium-activated sodium iodide, for measuring uranium-235 enrichment, 23:726
description of whole-body counter using medicinal paraffin, 21:34482
description of, for automatic γ detection, 21:30698 (RT/ING-(66)25)
description of, system for measuring probability of zero counts for various time intervals in reactor noise analysis, 22:12087 (BNWL-472, pp 5.1-16)
description of, with internal standard with long half-life, 23:4822(P)
design and calibration of boron—plastic, for measurement of atmospheric and earth leakage flux of cosmic neutrons, 23:11816
design and calibration of flowthrough europium-activated calcium fluoride, for measuring krypton-85 in natural gas, 22:14756(R) (UCRL-50007-67-2)
design and calibration of thallium-activated sodium iodide, for measuring atmospheric density from space vehicle by gamma-scattering technique, 22:21366
design and calibration of, for low-level whole-body counting, 21:1772(R) (ORO-2401-8)
design and construction of 192-element 4π, for study of three-body reactions, 25:42124
design and development of new, 21:28563
design and development of underwater, for use in xenon-133 sand tracer studies, 23:28996(R) (ORNL-4341)
design and efficiency of, using insoluble cerium—lithium glass beads for activity measurements of effluents in column chromatography, 23:26538
design and fabrication of, for gamma exposure rate measurements, 23:43515 (CONF-681063-, Paper 2.1)
design and methods for testing camera, for radiodiagnosis, 21:16201
design and operation for detection of gamma radiation for uranium prospecting, 23:35502
design and operation for determination of iodine-131 metabolism in canine thyroid glands, 24:41680
design and operation of, 23:38317
design and operation of 4π liquid, for whole-body counting, 22:19104
design and operation of gas dE/dx, 23:19949
design and operation of large area plastic, for cosmic ray telescope, 23:7753
design and operation of liquid, general theory of, 23:19951
design and operation of logarithmic rate meter, 24:2446 (INR-P-1074)
design and operation of low-level plastic, 22:6576
design and operation of Maxon—Rae, for neutron capture measurements below 100 keV, 25:53750(R) (NYO-73-340)
design and operation of plastic, for direct monitoring of cyclotron alpha beams, 24:5369
design and operation of separated function shower, for detection of electrons and gamma rays at 300 to 1600 MeV, 25:15938
design and performance for antineutron detection at 2 to 4 GeV/c, 22:372
design and performance for antiproton detection at 1.5 to 3.3 GeV/c, 22:372
design and performance for measurement of low-energy beta particles, 24:16834 (SZS-8/69)
design and performance for measuring animal radioactivity, 21:22138
design and performance for meson (π) detection, 22:372
design and performance for monitoring low-background α emitters, 24:19325(R) (MIT-952-6)
design and performance for monitoring plutonium-239 content in lungs of man, 24:2464
design and performance for radiodiagnosis using Compton-scattered gamma rays, 23:33447
design and performance for time-of-flight fast neutron spectroscopy, 24:11833
design and performance of 1000-liter Arapahoe type H-F, for determining cross sections for photon reactions (γ,n) and (γ,2n) at 10 to 50 MeV, 22:16881
design and performance of 3-liter liquid helium, 24:11815
design and performance of 4π liquid organic, for whole-body counting, 23:2564
design and performance of amphibious system containing, for in situ environmental radioactivity measurements, 25:55239
design and performance of anthracene and europium-activated calcium fluoride, for beta spectroscopy, 22:45322
design and performance of anthracene, for gamma dosimetry, 24:27343 (CONF-690540-, pp 538-47)
design and performance of anticoincidence shielded thallium-activated sodium iodide, for gamma spectroscopy, 21:17868
design and performance of anticoincidence-shielded thallium-activated sodium iodide, for gamma spectroscopy, 24:36600
design and performance of argon gas proportional, for detection of alpha particles, 21:32411
design and performance of argon—nitrogen proportional, for various gas mixtures, 21:39214
design and performance of array of plastic, for detection of neutrons in missing-mass spectrometers, 23:29199
design and performance of balloon-borne gas Cherenkov—scintillator telescope for measuring charge spectra of cosmic particles, 25:15944
design and performance of boron-10-loaded liquid, for measurement of neutron elastic scattering cross sections, 23:38284
design and performance of boron-containing liquid, for thermal neutron detection, 25:29337
design and performance of coincidence plastic, for high-energy beta spectroscopy, 24:5921
design and performance of coincidence spectrometer, with proportional counter, 21:28247
design and performance of combined solar battery—, for gamma and x radiation, 25:55005
design and performance of complete-absorption, consisting of alternate layers of lead and phosphors, 23:45526
design and performance of Compton-suppressed coincidence, for gamma spectroscopy, 23:43571
design and performance of double-phosphor, using anthracene and europium-doped calcium fluoride for beta spectroscopy, 23:16180 (NIRS-7, pp 3-11)
design and performance of europium-activated calcium fluoride, for monitoring krypton-85 and tritium in natural gas, 24:41657 (UCRL-50882)
design and performance of europium-activated lithium-6 iodide, for fast neutron spectroscopy, 24:4473
design and performance of gas-flow scintillation detector for continuous determination of carbon-14 in carbon monoxide—carbon dioxide mixtures, 23:9776 (AERE-R-5324)
design and performance of gaseous helium—xenon filled, operating at 100 atmospheres pressure, 24:46491
design and performance of hodoscope, for particle beam profile measurement, 21:28231
design and performance of hodoscope, for wide-angle meson (μ) detection, 21:19946
design and performance of inorganic and organic, for measuring low-activity and low-energy beta particles, 21:14435 (NP-16534)
design and performance of internal source, for measurement of electron capture ratios, 25:8514
design and performance of large 4π plastic, for clinical applications, 21:41214
design and performance of large area, 22:43042
design and performance of large area, powered by reflected light, 21:6285
design and performance of large sodium iodide, for measurement of linac thick-target bremsstrahlung spectra, 22:38065 (CONF-680706-1)
design and performance of large thallium-activated sodium iodide, with guard ring for gamma spectroscopy, 25:21425
design and performance of large-area polystyrene, for detection of cosmic radiation, 23:41010
design and performance of large-area, for cosmic particle time-of-flight measurements, 25:35020
design and performance of large-area, for measuring proton spectra up to 160 MeV, 23:9733
design and performance of large-area, with prismatic Plexiglas light guides, 22:8359
design and performance of large-volume mineral oil-based liquid, for neutron detection, 25:8547 (PURC-4159-13)
design and performance of liquid, for low-level detection of low-energy beta particles, 25:15886 (NP-18661)
design and performance of liquid, for low-level tritium measurements, 23:17764
design and performance of liquid, for natural carbon-14 beta activity, 22:19142
design and performance of liquid, for tracer studies, 21:36373
design and performance of liquid, whole-body counting, 22:14758
design and performance of liquid-helium, as neutron polarization analyzer, 21:19929
design and performance of long, for time-of-flight and position measurements, 25:4318 (JINR-E1-5098)
design and performance of low-level gas counter with plastic-scintillator coincidence shield for carbon-14 and tritium, 21:26183
design and performance of Moxon—Rae capture, for detection of neutrons, 23:37138(R) (RPI-328-160)
design and performance of NE 213, for n—γ discrimination, 21:45363 (LYCEN-6738, pp 176-9)
design and performance of organic, for whole-body counting, 21:32386
design and performance of phoswich-type, for determination of strontium-90 in seawater, 23:16122
design and performance of plane slow-neutron, 21:289
design and performance of plastic and stilbene, for time-of-flight fast neutron spectroscopy, 21:41235
design and performance of plastic and thallium-activated sodium iodide, for use as extremely low-level gamma spectrometer, 22:353
design and performance of plastic, for measurement of weak beta and gamma radiation, 21:26198
design and performance of plastic, for tritium determination in water, 24:9654
design and performance of polyethylene-moderated, boron-10-loaded, silver-activated zinc sulfide, for neutron dosimetry, 23:35518 (JINR-P16-4480)
design and performance of portable transistorized plastic, for beta and gamma detection, 22:23301
design and performance of portable, for monitoring plutonium surface contamination, 21:39192(R) (UCRL-50007-67-1)
design and performance of proton-recoil plastic, for time-of-flight neutron spectroscopy, 22:6635
design and performance of rubidium-activated cesium iodide, for tracer studies in man, 22:28071
design and performance of satellite-borne, for detection of solar flares, 24:4423 (LA-4251)

design and performance of satellite-borne, for measuring charged particle spectra in magnetosphere, 24:22990 (UCRL-50745)
design and performance of sealed helium-3 gas, for measuring neutron spectra, 22:47329
design and performance of seven thallium-activated sodium iodide, for γ—γ angular correlation measurements, 23:47757
design and performance of shadow-shield sodium iodide, for whole-body counting, 21:10616
design and performance of side-well thallium-activated sodium iodide, for gamma radiation, 21:16187
design and performance of signal-shape discriminating plastic, 21:8592
design and performance of single photomultiplier tube for counting compounds labeled with carbon-14 and tritium, 21:30710
design and performance of sodium iodide, with flat energy response for neutron time-of-flight spectroscopy, 25:51880 (CONF-701002-, pp 401-9)
design and performance of spherical chamber using, for radon determination in air, 24:16835 (SZS-11/69)
design and performance of stilbene crystal, for detection of neutrons, 21:39252
design and performance of system of NE 213 liquid, with neutron—gamma discrimination for muon capture measurements, 23:16121
design and performance of system of semiconductor detectors and, for electron—gamma angular correlation measurements, 23:16124
design and performance of system using silver-activated zinc sulfide, for monitoring radon-222, 23:33416
design and performance of telescope of, for tracking separated beams of secondary particles, 23:34689
design and performance of thallium-activated sodium iodide, for x-ray spectroscopy at 15 and 25 MeV, 22:8373
design and performance of thallium-activated sodium iodide, incorporating photodiodes for gamma spectroscopy, 23:7782
design and performance of thallium-activated sodium iodide, for gamma spectroscopy in health physics, 22:302 (AECL-2767)
design and performance of thallium-activated sodium iodide, for low-level gamma measurements, 22:23283
design and performance of thallium-activated sodium iodide, for determination of plutonium burden in lungs of man, 23:16180 (NIRS-7, pp 3-11)
design and performance of thallium-activated sodium iodide, as uranium-235 monitor for inspection of fuel cores, 21:36366
design and performance of thallium-activated sodium iodide, for gamma spectrometry, 21:32377(T) (AEC-tr-6719, pp 59-63)
design and performance of thallium-activated sodium iodide, in combination with photomultiplier tube, 22:8354
design and performance of thallium-activated sodium iodide, 23:7725 (AERI-22)
design and performance of thallium-activated sodium iodide in well of cesium iodide, for gamma-ray astronomy up to 0.4 MeV, 25:48930
design and performance of thallium-activated sodium iodide, for detection of plutonium x radiation, 23:11762 (UCRL-71362)
design and performance of thallium-activated sodium iodide, for x-ray fluorescence analysis of ores and alloys, 21:36415 (ORO-3224-10)
design and performance of thin large-area plastic, for primary cosmic ray detection, 22:43056
design and performance of total-absorption thallium-activated sodium iodate, for electrons and gamma rays at 4 to 14 GeV, 23:9750
design and performance of xenon gas, 25:18645 (USIP-70-1)
design and performance of xenon-filled, with multilayer targets, 21:39248
design and performance of, book on, 21:1618
design and performance of, consisting of organic phosphor optically coupled to photodiode for detection of high-energy charged particles, 23:33530
design and performance of, consisting of thallium-activated cesium iodide phosphor optically coupled to photodiode, for high-energy charged particles, 23:33529
design and performance of, for detection of low-energy beta particles, 21:45419
design and performance of, for gamma- and x-ray dose-rate measurements, 23:16165
design and performance of, for nuclear materials management, 25:46610 (CONF-710617-16)
design and performance of, for satellite investigations of low-energy electrons and protons in auroral zones, 21:32430
design and performance of, using semiconductors in place of photomultipliers, 21:32455
design and performance with fluorescence radiation converter, 24:36569
design and use for analyzing x-ray fluorescence, 22:310 (ORNL-IIC-10(Vol.2), pp 817-4)
design and use for dosimetry, 23:50183
design and use for tritium detection, 22:10538 (CEA-R-3321)
design and use of automatic γ, for radioactivity measurements at maximum depths in oceans, 21:8811(T) (AEC-tr-6641, pp 145-56)
design and use of car-mounted, for terrestrial radiometric surveying in Yamagata Prefecture, Japan, 21:10456
design and use of car-mounted, for terrestrial radiometric surveying in eastern Aichi Prefecture, Japan, 21:10455
design and use of deuterated-benzene-based liquid, for neutron capture and fission cross section measurements, 23:29186
design and use of thallium-activated sodium iodide, for whole-body counting, 21:3310
design and use of thallium-activated sodium iodide, in aerial surveying of gamma radiation, 22:2381
design and uses of, 21:6545
design as thermal and epithermal neutron detectors in well logging, 22:40477
design for absolute measurement of alpha particles, 24:4420 (CEA-R-3899)
design for aerial tracking of airborne radioactivity, 23:16085 (EGG-1183-2138)
design for alpha and beta discrimination, 24:16869(P)
design for background radiation measurements, 22:2415
design for beam monitoring in FIAN electron synchrocyclotron, 22:32409
design for blood volume determinations in human organs using iodine-131-labeled human serum albumen, 25:13218
design for brain scanning, 21:45772(R) (ACRH-27)
design for continuously monitoring activity of liquids, 22:16892(P)
design for cosmic-ray spectroscopy, 22:38083
design for cosmic-ray spectroscopy, 22:36089
design for count rates up to 30 MHz, using FEU-60 photomultiplier, 25:48997
design for detecting fissionable materials, 22:47352(P)
design for detection of low-energy beta particles in elution from chromatographic column, 24:9648
design for determination of integral radiation dose, 21:43380
design for determining direction and range of remote radiation source, 23:19972(P)
design for electron and proton detection in auroral zones and radiation belts of, aboard Kosmos 261 satellite, 25:17026
design for fuel element failure monitoring system for gas-cooled reactors, 23:35476(P)
design for gamma detection in neutron capture cross section measurements, 21:26174
design for gamma dosimetry, 23:43610
design for gynecological radiotherapy, 22:51264
design for hand and shoe monitoring, engineering drawings for, 21:320
design for helicopter close-order position-keeping system, 21:1521 (COO-1471-7)
design for high-energy gamma monitoring, 25:44582 (BNWL-B-54)
design for high-speed section scanning of brain, 21:26511
design for linear scanning of man, 22:36296
design for low-background beta counting, 21:14453
design for low-level activity measurements of beta and gamma sources, 23:43516 (CONF-681063-, Paper 2.4)
design for low-level radiation detection in gases, 22:4454(P)
design for measurement of absorbed dose in tissues, plastic, 21:43279
design for measurement of iodine-131 uptake by thyroid gland in man, 23:29182
design for measuring blood-flow using radioactive tracers, 22:45287(P)
design for measuring contamination of food, 21:39181 (EUR-3265.f)
design for measuring fission product decay in spent reactor fuel elements, 22:36038(P)
design for measuring neutron scattering asymmetry for polarization measurements, 25:25627 (LA-4596)
design for measuring radiation from gases, liquids, and minerals, 21:6303(P)
design for measuring radioactivity in rainwater, 23:19962(P)
design for monitoring air filters, engineering drawings for, 23:22036
design for monitoring argon-41 in ground-level atmosphere near reactors, 22:18947 (BNL-12154)
design for monitoring gamma radiation in or through shielding, 24:14267(P)
design for monitoring in vicinity of cyclotron, 23:26550
design for monitoring radioactive contamination in atmosphere and ground, 24:2443 (CLOR-76/D)
design for monitoring tritium in air, water, and urine, 23:16112
design for monitoring x radiation from plutonium-239, 22:21307 (AERE-HP/M-139)
design for multichannel detection of dispersed fluxes of gamma radiation or charged particles using fiber optics delay technique, 24:48285
design for neutron activation determination of carbon-12, 25:37588
design for neutron detection, 25:55012(P)
design for neutrons, 21:30284(R) (GA-7673)
design for photoelectron detection in auroral zone aboard Kosmos 261 satellite, 25:17024
design for photon counting, 25:57759(P)
design for plutonium reclamation waste stream monitoring, engineering drawings for, 24:9650
design for precise measurement of particle trajectories, 24:14241 (AD-695421)
design for radiation dose measurements, 23:26590(P)
design for radioisotope analysis among organs, 25:6722
design for radiometric liquid fuel gage, 22:43140(P)
design for radiometric well logging, 25:18814(T) (CSIRO-Trans-9992)
design for reactor fuel element burnup measurement, 25:18248
design for scanners for producing tomographic series of pictures, engineering drawings for, 23:2576
design for solar neutron detection, (E), 25:49640 (AD-722467)
design for solid-state counting of biological materials, 22:4443
design for time-of-flight spectroscopy of 10- to 100-MeV neutrons, 22:40447
design for total absorption of x rays and auger electrons, 23:44893
design for triggering bubble chambers, 25:34968 (CONF-700623-(Vol.2), pp 593-605)
design for underwater monitoring of beta particles and gamma radiation, 21:45433 (BNWL-481-4, pp 1-7)
design for use in aerial radioactivity surveys, 21:8451 (CEX-59.4.12)
design for use in analysis of wastes for plutonium, 25:4292
design for use in lead—scintillation counter—spark chamber system for detection of cosmic showers, 23:47756
design for use in well logging for detecting epithermal neutrons, 22:38013(P)
design for use with densimeter to measure bulk density of marine silts, 23:6219
design for use with restraining cage for small animals, 23:38255
design for whole-body counting, 21:45707
design for whole-body counting of inhaled plutonium-239 in dogs, 22:8558
design for x-ray detection at energies up to 1.5 keV, 23:31530
design for x-ray detection from high-temperature plasma sources, 23:18611(P)
design incorporating photographic film recorder for time-stamped records of exposure, engineering drawings for, 23:43552
design modification for β-γ-γ coincidence spectroscopy, 24:46198(R) (NBS-TN-508)
design of 4π plastic, for determination of cesium-137 and potassium-40 in infants, 22:36074
design of amplifier for eliminating background and enhancing contrast in use of, 21:10996
design of anthracene, for counting weak-beta-emitting nuclides in liquid samples, 22:38038
design of anthracene, for detection of beta particles from carbon-14, 23:7764
design of array of liquid, for neutrons at 20 to 340 MeV from $\pi^- + p \rightarrow n + \gamma$ interactions, 24:21018
design of array of sodium iodide, for angular correlation measurements, 22:10548
design of array of, for use as digital autofluoroscope, 22:25637
design of automatic liquid, 25:34886(P)
design of α and β—γ, for monitoring radioactive effluents in water, 23:7768
design of beta—gamma coincidence, for activity measurements of gold-198, 25:37607
design of boron-loaded liquid, for slow neutrons in mixed radiation fields, 22:21330(P)
design of cesium iodide, for portable gamma spectrometer, 22:2414
design of circuits for, for use in double tracer studies, 21:14700
design of coincidence annihilation-gamma, for detecting positrons, 22:40359 (INP-605/PL)
design of coincidence system for measurement of positron—gamma angular correlations, 24:11798
design of coincidence, using secondary emission foil for detecting light low-energy ions, 25:32271 (SGAE-PH-103/1970)
design of collimated, for measurement of alpha activity from plutonium-239 in puncture wounds, 25:57998 (NIRS-Pu-8)
design of combined plastic—thallium-activated sodium iodide, for gamma spectroscopy at 25 MeV, 23:47790
design of combined proportional—, for simultaneous gamma and neutron detection, 25:23783(P)
design of compact portable, for monitoring unirradiated fuel elements, engineering drawings for, 21:43275
design of Compton polarimeter, for neutron capture gamma radiation, 21:19935
design of digital autofluoroscope scintillation camera with automatic data processor, 21:1632
design of digital autofluoroscope using thallium-activated sodium iodide, with automatic data processor, 21:32473
design of direction-determining nonrotating, for gamma rays, 25:23841(P)
design of directional, for detection of 1.5- to 15-MeV solar neutrons, 21:32449
design of directional, for measurement of 0.1- to 1.0-MeV γ radiation in atmosphere, 24:5014(T) (ORNL-tr-2207)
design of directional, for neutron detection aboard sounding rocket, 22:36032(R) (N-68-16913)
design of disperse, for gamma dosimetry, 23:26589
design of double-layered thallium-activated cesium iodide evaporated on plastic NE-102, for detection and discrimination of low-energy electrons and protons, 22:40420
design of dual crystal Compton reduction, for use in activation analysis, 21:12313
design of dual crystal, for in vivo monitoring of soft β- and γ-ray dose to lungs of uranium miners, 23:43775
design of eight-crystal circular assembly of, for use in radioisotope scanning, 23:14220 (ORO-2401-27, pp 3-51)
design of europium-activated lithium iodide, for measuring neutron dose equivalent rate in pulsed and steady-state fields, 21:1620
design of external standard radiation source and transfer mechanism for liquid, 24:19234(P)
design of fast reactor noise, computer-input circuits utilizing, 22:32961 (ANL-7310, pp 377-430)
design of film, for quantitation of double color autoradiography, 23:7771
design of flexible fiber optics probe for, for intracavitary dosimetry during therapy, 23:33715
design of gadolinium-loaded liquid, for detecting photoneutrons, 23:11786
design of gadolinium-loaded liquid, for detection of photoneutrons, 23:47752
design of gallium arsenide, acting as unified scintillator—photodetector, 23:9728(P)
design of gallium arsenide, with semiconductor phototube, 22:47355(P)
design of gaseous, operating at 77°K for measuring neutron fission cross section of plutonium-239, 23:47765
design of gaseous, with low background, 23:47766
design of Hadamara transform, for angular and spatial distribution measurements, 25:34865 (JINR-P13-5696)

design of heat-resistant, for well logging, 23:29241
design of helium—nitrogen, for neutron-induced fission cross section measurements, 24:29530
design of high resolution hodoscopic, 22:32735 (ANL-7310, pp 249-375)
design of hollow 4π, for anticoincidence charged-particle shielding for atmospheric gamma and neutron detection, 23:21946
design of image tube for converting thermal neutron flux distribution patterns into optical image or video signals, 24:4441(P)
design of indium sandwich, for detecting epithermal neutrons and gamma radiation in well logging, 23:7769(P)
design of ion-sensitive, for mass spectrometers, 21:290
design of isochronous time-of-flight, 22:4478
design of laminated hydrogen-containing plastic and lithium-6-doped, for neutron detection, 24:11786(P)
design of large liquid, (E), 21:46192
design of large liquid, at RPI, modifications for, 22:39506 (RPI-328-123, pp 53-63)
design of large sodium iodide double crystal, for measuring decay curves of positron emitters, engineering drawings for, 22:51247
design of large spherical-cap-shaped, with irregular broken crystals of sodium iodide immersed in arachlor oil, 22:49399
design of lead sandwich, for measuring luminosity of Orsay storage ring, 25:36606 (LAL-1249)
design of liquid boron, for time-of-flight thermal neutron spectroscopy, 25:42104 (FEI-208)
design of liquid for automatic counting and display, 25:34878(P)
design of liquid, for alpha particles, engineering drawings for, 25:34930
design of liquid, for alpha, beta, and gamma spectroscopy, 23:13995(P)
design of liquid, for counting internal conversion electrons for standardization of cadmium-109, 23:13983 (CSIR-281)
design of liquid, for counting liquid samples, 24:14260(P)
design of liquid, for low-level tritium determination in biological and environmental samples, 25:55003 (UCRL-73128)
design of liquid, for tritium counting in water, 22:25641
design of liquid, using benzoxazole derivatives, 23:7770(P)
design of liquid, with external standard for quench calibration, 23:29151(P)
design of liquid, with external standards for radioisotope determination, 24:25297(P)
design of liquid—plastic phoswich, for neutron detection, 25:29339
design of liquid—solid mixture of thallium-activated sodium iodide, for anticoincidence gamma shielding, 23:17775
design of lithium glass, for neutron time-of-flight measurements at fast chopper facility at FRG-1, 23:19982
design of low-background plastic, for detection of beta particles, 22:28069
design of low-background, for beta spectroscopy, 22:36091
design of low-noise, for neutron detection and operation at wide temperature variations, 23:9710(P)
design of miniature plastic, to verify correct operation of 14-MeV neutron generator, 23:6286 (SCL-DC-68-27)
design of miniature surgical, for thyroid cancer operations, 24:22989 (ORNL-TM-2885)
design of miniature, for testing operation of pulsed neutron generator, engineering drawings for, 23:14019
design of miniature, to determine cardiac output, 22:40786
design of miniature, with electrostatic guard ring for electron detection, 24:39217 (COO-1726-45)
design of minimum-background, 22:8362(P)
design of moderated, for neutron dose rate measurements, 22:43119(P)
design of moderated, for neutron dosimetry, 25:37654(P)
design of NE 213, for time-of-flight neutron spectroscopy with neutron—gamma discrimination, 23:29216
design of NE-102 plastic, for balloon-borne cosmic x-ray telescope, 25:49006
design of neutron—gamma, for space applications, 22:28095
design of opposed, effectiveness of, 22:51822
design of organic liquid, for alpha and beta sources, 22:6568
design of organic liquid, for fast neutron detection, 24:31716
design of organic, for detecting fast neutrons with gamma discrimination, 22:36053
design of organic, for neutron spectroscopy at 1.0- to 15-MeV, 21:32448
design of organic, for neutron spectroscopy at 10 to 100 MeV, 22:28135 (NYO-3914-2)
design of OSO-G satellite-borne, for measurement of cosmic x ray at 25 to 190 keV, 25:26478
design of overlapping, for electron scattering facility of EVA 85-MeV electron linear accelerator, 23:43551
design of plastic, for anticoincidence low-level beta detection with G—M counters, 23:7739
design of plastic, for cosmic ray telescope, engineering drawings for, 22:51223
design of plastic, for detecting neutrons at 100 eV to 10 MeV, 22:14748 (GA-8184)
design of plastic, for low-level gamma dose rates, 22:2379
design of polystyrene—zinc sulfide, for gamma and x radiation dose rate measurements at 0.03 to 3 MeV, 22:16913
design of portable γ, for whole-body monitoring, 21:36402
design of portable lightweight, for use in wound monitor, engineering drawings for, 21:12676
design of portable thallium-activated sodium iodide, for gamma exposure rate measurements, 23:656
design of position-sensitive, 22:43031(P)
design of pressure-resistant flow cell for determination of amino acids, 24:27378
design of probe containing miniature, for detection of β and γ activity during surgery, 21:45370 (ORAU-101, pp 156-8)
design of proton-recoil telescope, for low-energy neutrons, 21:3245 (ORO-2791-19, pp 1-31)
design of rotating thin plastic, for monitoring electron and positron beams, 25:3497
design of self-correcting thallium-activated sodium iodide, for determining uranium-235 level in reactor fuel elements, 22:30820 (NLCO-1011)
design of silver-activated zinc sulfide, for determining radon-222 in water, 22:2415
design of silver-doped zinc sulfide, for direct measurement of radon content in air, 25:46625
design of sodium iodide, for aerial surveying of uranium deposits, 22:19143
design of sodium iodide, for multidimensional anticoincidence-shielded gamma spectrometer for low-activity samples, 24:2485
design of sodium iodide, for particle-gamma-gamma angular correlations, (E), 21:2704
design of spherical dose-equivalent neutron, 21:3265
design of standard NIM, for air monitoring, 25:39703 (DP-1260)
design of static gamma background monitor for identification of environmental radiation, 24:19218
design of stilbene and lithium-6-glass coincidence, for fast neutron spectroscopy, 25:10862
design of stilbene, for detection of fast neutrons at small angles, 25:44659
design of stilbene, with pulse-shape discrimination against γ radiation for fast neutron dose and spectra measurements, 21:43238
design of system for measuring gamma emission from liquid sample, 22:28254(P)
design of system for monitoring radon, 23:45510 (BNWL-1051(Pt.3), pp 30-5)
design of telescope for detection of cosmic mesons, 25:10871
design of thallium drifted, CsI, for simultaneous α-ray and x-ray detection in plutonium-contaminated skin and wounds, 23:29494(T) (AEC-tr-7021)
design of thallium-activated sodium iodide, for extreme low-level gamma spectroscopy, 22:6622
design of thallium-activated sodium iodide, for gamma spectroscopy, 22:28145
design of thallium-activated sodium iodide, for gamma spectroscopy of rocks on lunar surface, 22:43083
design of thallium-activated sodium iodide, for gamma spectroscopy in bore-hole operation, 22:12601
design of thallium-activated sodium iodide, for gamma spectroscopy, 22:2413
design of thallium-activated sodium iodide, for measuring x-ray angular and energy distribution behind absorbers, 22:21345
design of thallium-activated sodium iodide, for monitoring americium-241 in ion exchange column effluent, 24:39235
design of thallium-activated sodium iodide, for use with lithium-drifted germanium detectors for gamma—gamma angular correlation measurements, 23:24444
design of thallium-activated sodium iodide, for use with lithium-drifted germanium detectors for gamma—gamma coincidence measurements, 23:35503 (KFK-887)
design of thallium-activated sodium iodide, for use with lithium-drifted germanium detectors in pair and anti-Compton gamma spectrometers, 23:47795
design of thallium-activated sodium iodide, for whole-body scanner for laboratory animals, 22:6567
design of thallium-activated sodium iodide, for x-ray fluorescence spectroscopy, 22:4430 (ORO-3224-12)
design of thallium-activated sodium iodide, with anticoincidence shielding using plastic scintillators for gamma spectroscopy, 22:6623
design of thallium-activated sodium iodide, with paraffin pile for neutron detection, 22:6603
design of thallium-activated, for γ spectroscopy, 23:11444 (BNWL-481-2, pp 1-126)
design of thin large area, optimum, 21:3260
design of thin-crystal, 400 cm^3, mosaic-array, thallium-activated sodium iodide, for in vivo measurements in man, 23:612 (KFKI-27/1968)
design of thin-film, for time-of-flight measurements of very heavy ions, 24:36566
design of time-of-flight spectrometer, 24:4485
design of time-of-flight, for particles with momenta up to 2 GeV/c, 25:20180
design of total absorption nuclear cascade, for detection of high-energy particles, 22:38040
design of total absorption thallium-activated cesium iodide, for x-ray dosimetry, 25:23872
design of total absorption thallium-activated sodium iodide, for detection of high-energy mesons (π), 24:4493
design of ultra-thin, for time-of-flight spectroscopy of charged particles, 25:34887(P)
design of well-type, for measurement of activity in biological samples, 22:49340
design of whole-body scanner modified for live-time and half-life control, 21:45338 (BNWL-481-4, pp 12-16)
design of whole-body, for use in animal science and veterinary medicine, 21:22137
design of windowless, for detecting 0.5- to 1300-A photons and photoelectrons, 22:28123
design of xenon-filled, for detection of x radiation, 23:13975 (CEA-CONF-1035)
design of zinc sulfide, for determination of thorium-232 in human breath, 23:31738
design of zinc sulfide, for low-level alpha-pair detection, 22:2360
design of zinc sulfide, for radon-222 determination, 22:2377
design of zinc sulfide—boron oxide, for fast neutron flux measurements, 23:9717
design of, enclosed in neutron moderator for measuring neutron dose rate, 21:45435 (BNWL-481-4, pp 16-23)
design of, for external measurement of iodine-131 in thyroid gland, 21:1772(R) (ORO-2401-8)
design of, for plotting and recording distribution of radioisotopes in organs and tissues, 21:6546
design of, for short-range aircraft guidance systems, 21:12592
design of, for use in continuous alpha air monitoring, 21:1745 (RFP-815)
design of, for use in radioisotope brain scanning, 21:14697
design of, for use with iodine-125-labeled albumin in determining cardiac output, 21:12649
design of, incorporating photographic film recorder, 23:16108(P)
design of, subject to wide temperature variations, 23:19964(P)
design of, using photoconductive materials, 21:12681(P)
design optimization of crystal, for low-level gamma activity measurements, 25:55024
design optimization of, miniature pulsed light source for, 24:14284
design parameters of coolant sampling, for pressurized water reactors, 24:46026
design specifications for tritium air monitor, 23:21935 (CONF-680821-, pp 228-34)
design using FEU-49 photomultiplier for neutron detection, 25:48911
design using photoresistor, 24:48269(P)
design with fast response for photoneutron experiments, using uranium-235 capture and fission in plastic scintillator, 23:3940 (UCRL-50501)
design with ionization detector for mixed gamma—neutron dosimetry, 25:452(P)
design with radiation source for attenuation measurements, 24:5942(P)
design with secondary electron emitter, for detection of ion beams, 25:18722(P)
design with secondary emission target for detecting positive ions, neutral particles, and photons, 23:19986(P)
design with semiconductor photodetector for gamma dosimetry, 23:38327
design, operation, and performance of ac- or dc-operated, 21:39184 (NP-16758)
design, operation, and uses of, 21:12645(T) (AD-643601)
detergents for low-level liquid, performance of various, 24:33912
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development at ORNL, 24:7630 (ORNL-4459, pp 15-22)
development for airborne gamma spectroscopy, 24:16874
development for alpha counting of radium—barium precipitated samples, 23:21331 (MIT-952-5(Pt.1), pp 200-314)
development for calibration of cesium-137 and cobalt-60 gamma sources, 24:16839(T) (UCRL-Trans-10427)
development for continuous flow measurement of beta particles, review on, 24:16847
development for controlling and measuring radial clearances in turbines, using cesium-137 emitter, 22:2287
development for cosmic ray spectroscopy, 23:41047
development for detecting ruptured fuel elements, 24:9706 (CEA-CONF-1366)
development for detection of neutrons from electron reactions (e,e'n) with nuclei, 22:21313 (ISS-67/18)
development for determination of plutonium in vivo, 25:377
development for dose rate measurements, 25:18684(P)
development for dosimetry of fast pulsed electrons, 25:370(R) (NYO-3510-15)
development for fast ion counting in mass spectrometers, 25:15884 (EUR-4567)
development for flat-response neutron detection at 100 to 700 keV using vaseline—boron-10 sphere, 25:13215
development for gamma and positron cameras, 22:38056
development for gamma angular correlation measurements, 23:21681(R) (ORO-3345-4)
development for gamma scanning inventory of plutonium, 25:4297
development for low-level gamma—gamma coincidence counting, 21:17603(R) (COO-347-28)
development for low-level measurement of krypton-85 with pressure chamber for gaseous sample, 24:36552 (DP-Report-109)
development for measurement of beta sources in atmosphere, 25:26488
development for measurement of iodine-131 content of thyroid gland of man, 22:38346
development for measurement of natural gamma background, 25:374
development for measuring polarization of gamma radiation, 22:48509(R) (BMwF-FBK-68-22)
development for monitoring air filters, 23:11755 (DP-1176)
development for monitoring seawater at Sasebo Harbor, Japan, 24:14242(T) (AEC-tr-7140)
development for neutron detection, 22:5809(R) (ANL-7354)
development for neutron detection down to 1 keV using uranium-235 fission foil, 25:10845
development for optimization of Cherenkov measurements, 23:35021
development for plutonium determination in lungs, 24:25256(R) (BNWL-1307(Pt.3))
development for plutonium-239 determination in drums of radioactive waste, 24:25261 (UCRL-50007-69-3, pp 1-9)

development for radon-222 monitoring by counting electrostatically collected polonium-218, 23:21937 (NYO-3086-8, pp VI.1-26)
development for studying local concentration of radioactive material on moving band, 25:18688(P)
development for use in radioisotope scanning, 23:50159
development for use in radioisotope scanning, 23:50160
development for visualization of radioisotope distribution in man, 24:29794
development for water monitoring by low-energy x-ray detection, 22:30825(R) (UCRL-50007-67-3)
development for well logging, 23:29240
development for x ray detection, 25:48950 (AD-718142)
development of, 24:31248
development of 4000-liter liquid, for coincidence operation, 22:3689(R) (GA-7820)
development of 4π liquid, for standardization of beta sources, 22:14766
development of air-equivalent organic, for gamma dose rate measurements, 23:6291
development of airborne for ground-level fallout monitoring, 24:20975(R) (AD-697921)
development of airborne, for monitoring ground level fallout, 24:4418(R) (AD-691204)
development of anticoincidence system for carbon-14 determination on Mars for life detection, 24:27348 (N-70-15606)
development of barium fluoride, for charged-particle and gamma-ray detection, 25:57817
development of Bonner multisphere lithium iodide, for neutron dosimetry and spectroscopy, 25:10811 (CEA-CONF-1685)
development of calcium iodide, for soft x-ray spectroscopy, 25:29350
development of collimator for use with, for xenon-133 lung scanning, 22:40773
development of collimator system for use with, for tomographic radioisotope scanning, 24:34447
development of combined fission gas monitor-electrostatic precipitator, for fuel element leak detection, 21:12250
development of fast response miniature electron, for use with small energy analyzer, 25:18711
development of flow chamber for determination of carbon-14 and sulfur-35 in solution, 24:44273
development of flow-cell, for beta monitoring of blood of live small mammals, 23:43553
development of flowthrough plastic, for detection of tritiated water, 23:50126 (UCRL-50007-69-1, pp 22-6)
development of gamma survey meter, 24:19201 (MIT-952-6, pp 164-84)
development of gas, with light amplification for spectrometry of low-energy charged particles, 21:3263
development of gas-flow, for x-ray detection, 22:32512(R) (AECL-3108)
development of gel, for counting beta emission by protein-bound iodine-131 in plasma of man, 22:19353
development of helium-3 gas, for time-of-flight neutron measurements, 25:42048 (ANL-7710, pp 263-364)
development of hexafluorobenzene, for gamma dosimetry in mixed gamma—neutron fields, 22:28108
development of hexafluorobenzene, for shielding measurements around nuclear power stations, 25:23775 (RD/B/N-1863)
development of high-energy gamma ray, with angular and spectral resolution, 21:16186
development of improved, for use with video radioisotope scanning systems, 25:55278
development of large light output, rare gas, proportional, 22:6595
development of large-area liquid, with uniform spatial response, 25:10875
development of large-area, for measurement of plutonium-239 content of human lungs, 25:57998 (NIRS-Pu-8)
development of large-area, for monitoring human lungs for plutonium, 25:51970 (NIRS-Pu-6)
development of large-area, for neutron detection, 21:7771(R) (NYO-2028-1)
development of large-volume, for neutron detection, 21:7628(R) (GA-7283)
development of liquid and plastic, for determination of oxygen by activation methods, 21:12306
development of liquid, at ORELA, 24:3953(R) (ORNL-4433)
development of liquid, for aqueous samples, 25:42072(P)
development of liquid, for determining activity of tritium, 21:30717
development of liquid, for gamma spectrometry, 21:3278
development of liquid, for promethium-147 activity counting, 21:276 (JUL-377-PC)
development of liquid, for spectroscopy, 22:23318
development of liquid, for thermal neutrons, 25:42069(P)
development of liquid, for time-of-flight neutron spectroscopy for measuring fission parameters at 0.7 to 7 MeV, 24:27390
development of liquid, review on, 23:16118
development of liquid, survey of, 23:29187
development of miniaturized thallium-activated cesium iodide, for detecting radioactivity during thyroid surgery, 25:55018
development of Moxon-Rae type gamma, 21:1571 (UCRL-50126)
development of Moxon-Rae-type, for gamma radiation, 21:7773 (UCID-15036)
development of NE-213, for fast neutron spectroscopy using off-line gamma-ray discrimination, 25:55033 (COO-2049-6)
development of NE-213, for neutron spectroscopy in aqueous media, 25:55034 (COO-2049-7)
development of ORELA scintillator tank, 23:7281(R) (ORNL-4280)
development of organic gel, 25:18687(P)
development of plastic NE102A, for measuring beta dose rates, 21:17816 (AERE-M-1830)
development of polyethylene-moderated zinc sulfide, for detection of fast neutrons, 21:17893(P)
development of position-sensitive, 25:18713(P)
development of position-sensitive, for detecting charged particles, 22:23260 (CEA-Bib-102)
development of probe-type, for detection of plutonium in bronchial lymph nodes, 25:37713 (BNWL-1551(Pt.2), pp 72-9)
development of prototype, for detection and measurement of gamma radiation at 10 mR/h to 1000 R/h, 22:51219 (AD-672474)
development of rate meter for low-level pulsed x rays, 25:44696
development of scintillation detector—photodiode system with internal amplification, 24:5882 (EUR-4269, pp 144-60)
development of scintillation detector—spark chamber telescope for studying π^+ production in $\gamma + p$ interactions, 24:14305
development of shadow-shielding for use of, in thyroid scanning, 22:12583
development of shower, for electron energy measurement up to 1.5 GeV/c, 25:18779
development of sodium iodide, for high energy gamma radiation, 25:25724(R) (RLO-1388-121)
development of temperature-stable, based on isotactic polystyrene, 23:31532
development of thallium-activated cesium iodide, with photodiode for detecting high-energy charged particles, 23:7743
development of thallium-activated sodium iodide, for determination of iodine-125, 24:27396
development of thallium-activated sodium iodide, for plutonium-239 monitoring, 22:30825(R) (UCRL-50007-67-3)
development of thallium-activated sodium iodide, with image intensifier tube for photographing cosmic ray particle tracks, 23:50171
development of thin-film dE/dx, for detection of light particles and fission fragments, 25:48957
development of thin-film position-sensitive, for high-energy particles, 24:50622 (TID-25473(Vol.3), pp 65-73)
development of thin-film, for fission fragment dE/dx measurements, 24:22146(R) (ORO-2843-15)
development of thin-film, for fission fragments, 23:15432(R) (ORO-2843-13)
development of thin-layered silver-activated zinc sulfide, for fission product detection, 24:25284
development of total absorption nuclear cascade, for high-energy particle spectroscopy, 23:47843
development of total absorption, for hadron and electron—photon detection at 100 MeV, 24:50620 (TID-25473(Vol.3), pp 51-6)
development of various thermodynamically stable mixtures for liquid, for detection of low-energy radiation, 25:32217(P)
development of wedge-shaped, as monitor for high-energy particle beams, 24:27410
development of well-type sodium iodide, for determining activity of gamma sources, 21:45345(R) (IDO-17234)
development of well-type, in end-on position for assay of radioisotopes in large liquid volume, 23:43272
development of, for scanning, 21:6564
development of, review of, 22:43126
development with sample rotation for improving counting statistics, 25:18683(P)
discriminator circuit for lithium fluoride—zinc sulfide, for detection of slow neutrons, 21:36383
discriminator circuits for NE213 and stilbene, design of pulse shape, for gamma and neutron detection, 22:40405
discriminator for boron-loaded liquid, design of neutron—gamma, 21:41221
discriminator for boron-loaded liquid, design of neutron—gamma, 22:45282(T) (ORNL-tr-1946)
discriminator for gamma background compensation in, for beta detection in mixed beta—gamma fields, design of pulse shape, 23:11771
discriminator for phoswich-configuration, design of tunnel diode pulse shape, 21:32438
discriminator for sodium iodide, fast leading-edge, 23:7745
discriminator for stilbene, design and performance of double delay line pulse shape, 21:32437
discriminator for, design of fast time marking, 23:40989 (EUR-4289, pp 137-9)
discriminator for, design of tunnel diode, 22:38037
discriminator for, digital system for measuring threshold of nanosecond, 23:6287 (UCRL-18118)
discriminator with small-time skewing for, design and performance of fast-gated, 22:335
discriminators for organic, design and performance of pulse shape, 22:12577
doping of sodium iodide, with radioisotopes, solubilities for, 21:36382
efficiencies and energy loss spectra for thallium-activated sodium iodide, calculation of photopeak, 24:25259 (RT/FI-(69)38)
efficiencies of liquid and plastic, for neutron detection at 2.5 to 19 MeV, 25:44597
efficiencies of well-type, for detection of gamma rays at 10 keV to 6 MeV, 21:36381
efficiencies of, compared with solid-state detectors, 24:68
efficiency and background of thallium-activated sodium iodide, for gamma detection, dimensional effects on, 23:17772
efficiency and counting cross section of cylindrical, in axisymmetrical gamma fields, 23:29194
efficiency and cross section of cylindrical sodium iodide, method for calculation in gamma radiation fields of arbitrary angular dependence, 23:38288
efficiency and cross section of cylindrical, in axisymmetrical gamma fields, calculation of, 23:38243 (BMwF-FBK-69-20)
efficiency and resolution of sodium iodide, for measuring radioactive fallout, 22:45320
efficiency and response of cylindrical, for whole-body counting, 25:57772
efficiency calculations for organic, used for neutron detection, 23:637
efficiency determination of lithium-6 glass, for neutrons by associated particle method, 24:44286
efficiency for assay of thin-layer chromatograms, effects of presence of silica gel on quench calibration curves used to determine, 23:43763
efficiency for counting tritium, variations in, 22:18732
efficiency for detection of beta sources in aqueous solutions by Cherenkov radiation produced, effects of colored materials on, 22:8361
efficiency for detection of slow neutrons, effects of spherical polyethylene moderator on, 21:43239
efficiency for detection of weak beta emitters, 21:30358
efficiency for determination of tritium, effects of method of preparation on, 21:33
efficiency for fast neutron time-of-flight measurements, 22:13906 (RPI-328-100, pp 57-112)
efficiency for fast neutrons from deuteron reactions (d,n) with deuterium, associated particle method for determining, 24:2449(T) (MLM-1681(tr))
efficiency for gamma radiation, effects of contamination by natural radioisotopes in components on, 22:2367
efficiency for neutron counting in plutonium fluoride determination, 22:48811 (ANL-7402)
efficiency for neutron time-of-flight experiments, 21:31710 (RHEL/R-136, pp 52-88)
efficiency for radioactivity control measurements in water, 23:21655 (SZS-1/69)
efficiency for x-ray detection, 22:40430
efficiency for x-ray spectroscopy, mathematical model for error analysis for, 22:49106
efficiency graph for sodium iodide, for gamma spectroscopy, construction and use of, 25:26492 (RCC-M-211)
efficiency in fast fission ratio measurements using uranium foil activation detectors, radial dependence of, 22:10565
efficiency intercalibration of array of lithium glass, for thermal neutron detection, 23:26531
efficiency NE 214 liquid, for neutron detection at 0.1 to 15 MeV, 25:37595
efficiency of Al_2O_3—CeO_2—P_2O_5, for gamma detection, 23:47744
efficiency of boron carbide-shielded sodium iodide, for fast neutrons, 22:22526 (RPI-328-112, pp 16-59)
efficiency of boron—sodium iodide, for neutrons, computer program for evaluating, 25:32214 (KFK-1182)
efficiency of boron-10 carbide sodium iodide, for detection of neutrons, 23:37138(R) (RPI-328-160)
efficiency of crystal, immersed in homogeneous medium contaminated by gamma emitters, (E/T), 25:42096
efficiency of cylindrical and well-type thallium-activated sodium iodide, calculation of gamma detection, 25:39704 (INR-1264)
efficiency of cylindrical and well-type thallium-activated sodium iodide, for gamma detection, 23:24425 (IFA-MR-30)
efficiency of cylindrical crystal, computer program for determining, 21:277 (SFL-A-5)
efficiency of cylindrical liquid, for fast neutrons, 21:45415
efficiency of cylindrical sodium iodide, calculation of absolute, 24:27333 (CEA-N-1261)
efficiency of cylindrical sodium iodide, for gamma radiation, detection and photopeak, 22:23296
efficiency of cylindrical thallium activated sodium iodide crystals, calculated absolute, 23:2046
efficiency of cylindrical thallium-activated sodium iodide, for aqueous spherical gamma sources, 22:16856 (AE-310)
efficiency of cylindrical thallium-activated sodium iodide, Monte Carlo calculation of, 24:29522
efficiency of cylindrical, for off-axis gamma sources, 25:48915
efficiency of fuel element failure detection using, testing of, 22:18584 (CEA-R-3330)
efficiency of gadolinium-loaded liquid, for measurement of neutrons per fission from californium-252, systematic errors in, 25:48943
efficiency of gadolinium-loaded, for neutrons, Monte Carlo calculation of, 22:14788
efficiency of granular and glass, for neutron detection, 24:4445
efficiency of granular plastic, for detection and measurement of beta-active solutions, 23:33392
efficiency of large liquid, at 40 to 400 MeV, measurement of neutron detection, 24:27408 (PPAR-25)
efficiency of large liquid, for neutron detection at 40 to 400 MeV, 25:8512
efficiency of liquid, 21:45424
efficiency of liquid NE-213, for fast neutron spectroscopy, 24:9675
efficiency of liquid, computer program for determination of, 24:13311(R) (COO-1573-63)
efficiency of liquid, for activity measurement of beta sources in solution with phosphors, 22:38004
efficiency of liquid, for average neutrons-per-fission measurements, variation in prompt pulse, 25:51853 (CONF-701002-, pp 481-7)
efficiency of liquid, for beta counting, 21:14464
efficiency of liquid, for counting activity of beta sources, 21:45380
efficiency of liquid, for determination of iron-55, 25:32223
efficiency of liquid, for low beta activities, 24:44266
efficiency of liquid, for measuring carbon-14 metabolism by phytoplankton, 22:38000
efficiency of liquid, for tritium and carbon-14 counting, temperature effects on, 23:43520

efficiency of liquid, for tritium counting using sealed standard, (T), 22:43044
efficiency of liquid, for tritium dosimetry in human urine and water, 24:46610
efficiency of liquid, long-term storage effects on, 22:47356
efficiency of liquid, method for determining, 21:19950
efficiency of liquid, method for measuring, 22:23290
efficiency of liquid, parameters for optimization of, 24:20987
efficiency of liquid, volume response of, 23:2591
efficiency of lithium glass and boron-loaded liquid, effects of elastic scattering on low-energy neutron detection, 25:18716
efficiency of lithium-6 glass, for in-core fast neutron spectra measurements, 25:18637 (AEEW-M-898)
efficiency of lithium-6 glass, for neutron detection, (E), 25:41213
efficiency of lithium-6 glass, for neutron spectrum measurements, effect of scattered neutrons from photomultipliers on, 23:642
efficiency of lithium-6-loaded glass, Monte Carlo S/sub n/ calculations of, 22:319
efficiency of lithium-glass and NE-213, effects on neutron time-of-flight spectra of, (E/T), 24:36064(R) (GA-10146)
efficiency of lithium-loaded glass, for detecting neutrons at 100 to 250 keV, 22:26932(R) (NP-17434)
efficiency of loaded, for fission neutron detection, 24:29527
efficiency of lubricating oil—organic scintillators, 23:35481
efficiency of moderated sodium iodide, for detection of neutrons, 23:29195
efficiency of multilayer polystyrene, for beta detection, 21:45390
efficiency of NE 102 plastic, for detection of 10- to 70-MeV neutrons, 22:6604
efficiency of NE 102, for neutrons at 9 to 20 MeV, (E), 22:37340(R) (EANDC(E)-89(U))
efficiency of NE-102 and NE-213, for neutrons, 25:22972(R) (COO-1573-71)
efficiency of NE-213 organic, for 2.7- and 14.5-MeV neutrons, 22:23295
efficiency of NE-213, for neutron detection at 0.2 to 20 MeV, 23:16086 (EGG-1183-2172)
efficiency of NE-213, for neutrons at 1 to 9 MeV, 23:2635
efficiency of Ne-224 liquid, for 4- to 36-MeV neutrons, 21:37653(R) (UCLA-34-P-106-1)
efficiency of NE102 plastic, for medium-energy time-of-flight neutron spectroscopy, 24:48308
efficiency of NE213 from neutrons of 2 to 14.5 MeV, absolute, (E), 25:9968 (NP-18488)
efficiency of NE213 organic liquid, for fast neutrons, 25:37615
efficiency of organic liquid, for neutron spectroscopy at 0.2 to 22 MeV, 23:682
efficiency of organic plastic, for detecting neutrons, temperature effects on, 23:7734 (GEPP-44)
efficiency of organic, calculation of luminescence, 25:57753
efficiency of plastic, for 0.2- and 3.0-MeV neutrons, 21:8601
efficiency of plastic, for 20- to 130-MeV neutrons, 21:10654
efficiency of plastic, for detecting 2.55-MeV neutrons, 21:3259
efficiency of plastic, for detection of 20- to 170-MeV neutrons, 23:19980
efficiency of proton-recoil, for fast neutron spectrum measurements, 23:13183 (RPI-328-142, pp 68-116)
efficiency of proton-recoil, for fast neutrons, 21:19152(R) (TID-23685)
efficiency of proton-recoil, for time-of-flight measurements of fast neutron spectra, 21:42524 (RPI-328-97, pp 35-95)
efficiency of silver-activated zinc sulfide, for neutrons, 24:46477
efficiency of silver-doped zinc sulfide, electron backscattering measurements for determining, 24:46490
efficiency of sodium iodide, for detection of gamma sources in water, 23:16128
efficiency of sodium iodide, for gamma sources in water, 23:14006
efficiency of sodium iodide, for gamma sources in water, 23:19943
efficiency of sodium iodide, for gamma spectroscopy, 23:2663 (NP-17612)
efficiency of solutes for liquid, 24:50574
efficiency of spherical thallium-activated sodium iodide, 25:32252
efficiency of steel sandwich, for high-energy neutron and proton detection, (E/T), 25:6546
efficiency of stilbene, effects of double scattering of neutrons on, (E/T), 22:43058
efficiency of telescope, for photon detection at 50 to 1500 MeV, 24:50547 (LNF-70/13)
efficiency of thallium-activated cesium iodide, for detection of protons above 15 keV, 23:33393
efficiency of thallium-activated cesium iodide, relative photopeak, 25:8502
efficiency of thallium-activated sodium iodide crystals for photons at 0.02 to 4.0 MeV, 21:3272
efficiency of thallium-activated sodium iodide crystals, photopeak, 21:3255
efficiency of thallium-activated sodium iodide, $4\pi\beta$—γ coincidence method for determining, 23:14025
efficiency of thallium-activated sodium iodide, for Marinelli beakers, 24:23009
efficiency of thallium-activated sodium iodide, for gamma detection, method for determining absolute, 23:19981
efficiency of thallium-activated sodium iodide, for cylindrical gaseous gamma sources, photopeak, 22:2402 (PG-Report-792)
efficiency of thallium-activated sodium iodide, for cylindrical gaseous sources, photopeak, (E), 25:42049 (EUR-4513)
efficiency of thallium-activated sodium iodide, for gamma detection for thick disk sources, 24:50559
efficiency of thallium-activated sodium iodide, for measuring keV electron capture peaks, 23:2562
efficiency of thallium-activated sodium iodide, for cylindrical gamma source, Monte Carlo calculation of, 23:26541
efficiency of thallium-activated sodium iodide, for gamma spectroscopy, measurement of, 25:10865
efficiency of thallium-activated sodium iodide, for gamma radiation up to 20 MeV, coincidence method for determining absolute, 23:11777
efficiency of thallium-activated sodium iodide, for gamma detection, 25:44661 (AECD/EP-19)
efficiency of thallium-activated sodium iodide, for detection of cesium-137 and cobalt-60 gamma rays, 22:4429 (NP-17072)
efficiency of thallium-activated sodium iodide, for gamma spectroscopy of large volume aqueous sources, photopeak, 23:38296 (AERE-R-6083)
efficiency of thallium-activated sodium iodide, for detection of protons above 5 keV, 23:33393
efficiency of thallium-activated sodium iodide, for detecting fast neutrons, 22:40382
efficiency of thallium-activated sodium iodide, full energy peak, (E), 25:42050 (JAERI-13546)
efficiency of thallium-activated sodium iodide, measurement of peak-to-total ratios for calculating photopeak, 23:21947
efficiency of thallium-activated sodium iodide, Monte Carlo calculation of, 24:41662
efficiency of thallium-activated sodium-iodide, for gaseous cylindrical gamma sources, 21:19932
efficiency of thin crystal, 400 cm^3, mosaic-array, thallium-activated sodium iodide, for determining radioisotope content in lungs of man, 23:612 (KFKI-27/1968)
efficiency of toluene—triton X-100 liquid, for tritium counting, 23:33400
efficiency of VA-T-84, for determination of beta activity in water, 23:35466(T) (ORNL-tr-2149)
efficiency of well-type thallium-activated sodium iodide, for gamma sources emitting in coincidence, 25:48946
efficiency of well-type thallium-activated sodium iodide, considering gamma scattering outside crystal, 25:48938
efficiency of well-type thallium-activated sodium iodide, for photon detection below 100 keV, photopeak, 24:11796
efficiency of well-type thallium-activated sodium-iodide crystal, for cylindrical gamma sources, 21:15545 (CONF-660221)
efficiency of, geometrical considerations for increasing collection, 22:21318 (UCRL-50176)
efficiency of, method for determining, 23:19945
efficiency of, surface treatments for increasing, 22:21318 (UCRL-50176)
efficiency of, with spherical moderator for 5-eV to 17-MeV neutrons, 21:16181
electron detection by, exo-, 21:4711
electron—photon cascades at 200 to 400 MeV in, (E), 21:43233
electronic equipment associated with large volume liquid, 22:38026
electronic equipment for use with, in four-channel telescope, 23:45524
electronic equipment for, application of Harwell 2000 series, 21:22125 (AERE-M-1832)
energy absorption spectrum—radiation dose conversion operator for thallium-activated sodium iodide, for determination of gamma exposure, 22:12658
energy absorption spectrum—radiation dose conversion operator for liquid, for neutron dose equivalent measurements, 22:12658
energy characteristics of thallium-activated sodium iodide, used for dosimetry, method for correction of, 22:8400
energy loss distribution of recoil protons in stilbene, for neutron detection, 24:50564
energy resolution of, analysis of, 21:6220
energy response of, circuit for flattening, 21:41273(P)
energy sensitivity of silver-activated zinc sulfate, for measuring fast-neutron fluxes, 21:32390
energy transfer from solvent to scintillator in liquid, theory of, 25:21419
energy transfer in inorganic, theory of, 25:23806
energy transfer in liquid organic, triplet-triplet, 25:13220
energy transfer in liquid, effects of chemical quenching on, 24:19227
energy transfer in plastic polystyrene, solvent—solute, 24:19208
energy transfer mechanism in naphthalene-containing liquid, 25:2450
equipment and method for liquid, for radioisotope determination, 24:16852
errors due to photomultiplier afterpulses, 24:44279
errors in sodium iodide, from proton energy losses in inelastic scattering, 24:5906
evaluation for determination of plutonium-238 content in man, 21:45625 (RFP-954)
evaluation of cocktails for, for counting tritium-labeled RNA in sucrose, 25:37899 (ANL-7770, pp 118-30)
evaluation of collimators for, used in clinical radionuclide scanning, 21:6567
evaluation of photographic, for ruptured radium source, 24:33860 (BRH/SERHL-70-1)
evaluation of variance of, in counting cesium-137 samples, 21:12951(R) (LA-3610)
fabrication and performance of cesium iodide, for location of plutonium in wounds, 23:14007
fabrication and testing of thallium-activated cesium iodide and sodium iodide, for x-ray detection, 22:19100 (UCRL-70773)
fabrication of europium-activated strontium iodide, 22:28129(P)
fabrication of lead-sandwiched, for gamma-ray monitoring in Orsay storage ring, 22:11819
fabrication of low-noise, for beta detection, 21:30694 (INR-780/XIX/D)
fabrication of plastic, for detection of secondary electrons in scanning electron microscopes, 24:11794
fabrication of silver-activated zinc sulfide—lithium fluoride, for thermal neutron detection, 24:5911(P)
fabrication of thallium-activated alkali halide, pressed from powders, 22:23272
fabrication of thallium-activated potassium iodide, for gamma spectroscopy, 22:28133 (NP-17352)
fabrication of thin thallium-activated sodium iodide, for low-energy x-ray detection, 21:39217
fabrication of well-type thallium-activated sodium iodide, with anticoincidence shielding, 21:32417
fabrication of zinc sulfide, for low-level alpha detection, 24:19210
fabrication of, with protective polymer coating, 22:10568(P)
focusing properties of secondary-electron, for detection of slow ions, 23:43545
gain stabilization of liquid, for carbon-14 beta detection, 25:29344
gain stabilization system for gamma spectroscopy, 22:38107(P)
gain stabilization system for, used in spectroscopy, 23:16147(P)
gamma attenuation coefficients for, directional correlation, 21:16145 (UCD-CNL-74)
gamma correlation measurements in sodium iodide, effects of summing of two gammas on corrections of coefficients for three gammas, 23:21959
gamma energy loss spectra in cylindrical thallium-activated sodium iodide, Monte Carlo calculation of, 23:33387 (RT/FI-(69)15)
gamma energy-peak efficiency of sodium iodide, 21:32361 (AAEC/TM-384)
gamma radiation signal processing from sodium iodide, photomultiplier—amplifier—discriminator systems for, 21:45368 (N-67-25871)
gamma ray energy loss in thallium-activated sodium iodide, computer programs for calculation of, 24:4422 (IEA-171)
gamma ray mass attenuation coefficients for organic, (E/T), 25:23821
gamma spectra from sodium iodide, mathematical representations for photopeaks of, 21:24217
gamma spectra from, analysis of, 21:26168
gamma spectra from, method of least squares for analysis of, 21:39204
gamma spectral data from thallium-activated sodium iodide, statistical methods for smoothing, 21:39227
gamma-ray background studies for NaI (Tl) and plastic, 21:22364(R) (BNWL-235-2)
gating system for neutron, design of 100 Mc 2 out of 3, 21:3357
gel for liquid, bitolylene diisocyanate-based, 25:48920
geometric factors for thallium-activated sodium iodide, for gamma angular correlation measurements, 25:57733
geometrical attenuation factors for cylindrical, for angular correlation measurements, 24:11797
geometrical attenuation factors for thallium-activated sodium-iodide, due to finite solid angle for gamma-ray energies of 0.51 to 6.1 MeV, 25:15897
geometry compensation for meson (π^-) time-of-flight spectroscopy using proportional detector, 25:13296 (JINR-P13-5472)
geometry for angular correlation measurements, correction factors for, 24:4459
geometry of thallium-activated sodium iodide, for activity measurements of potassium-40 in phantoms, 23:29159
geometry of, effects on time probability of photon collection in photomultiplier tubes, 21:6211
impurities in lithium-loaded cerium, for neutron detection, determination and removal of radioactive, 23:29147 (AWRE-O-15/69)
ion trajectory calculations in Daly-type conversion, using electrostatic analyzer for ions up to 10 keV, 24:41659
krypton diffusion in polyvinyltoluene, 22:25640
light absorption properties of polystyrene, 23:31531
light attenuation characteristics of large-area, used for charged particle detection, 23:16119
light collection efficiency of large liquid, experimental and theoretical study of parameters affecting, 25:42065
light collection efficiency of, with cylindrical scintillators having reflecting walls, 22:43072
light collection systems for, review on, 25:10834
light collectors for, characteristics, 25:21391
light flash simulation of, diodes for, 23:43543
light from plastic, pulsed source for simulation of, 25:21390
light guide and radiation shield for, design of cadmium fluoride, 23:33402(P)
light guide design for improvement of resolution of, 24:14253
light guide for coupling single photomultiplier to large diameter, performance of, 24:36572
light guide for hodoscope of, preparation of Plexiglas, 25:15885 (LUSY-6903)
light guides for hodoscopes of, preparation of Plexiglas, 24:11822
light guides for, characteristics of, 24:29526
light guides for, efficiency of various reflective coverings for, 24:27374
light intensities of liquid, measuring technique for, 24:44267
light output and attenuation of, monoenergetic beta source for measurement of, 24:5809
light output and scintillation time of polystyrene-based plastic, effects of natural light on, 25:8528
light output from very thin large-area plastic, uniformity of, 25:406

light output from very thin Pilot B, effects of wave-shifter concentration on, 25:57819
light output from, design of nanosecond pulse generator for simulation of, 21:45389
light output of argon and argon—nitrogen proprtional, effect of p-quaterphenyl wave-length shifter on, 22:6609
light output of liquid, effects of spectral characteristics of components on, 25:26462
light output of liquid, effects of spectral properties of components on, 25:44594
light output of NE-213 liquid, for 40-MeV protons, 24:3953(R) (ORNL-4433)
light output of proportional gas, with xenon and xenon mixtures, 22:40427
light output of thallium-activated sodium iodide, for gamma detection, effects of thickness on, 24:2457
light pipe for thin large area, design of, 21:10662
light pipes for plastic, efficient use of Lucite, 22:19114
light pulses from, technique for measuring output and decay time vs wavelength for, 24:39230
light transmission coefficient for, with incomplete optical contact, 23:45529
light transport efficiency of, computer program for analyzing, 22:21319 (UUIP-568)
light yield efficiency of liquid, for protons, 22:49098
light yield efficiency of monocrystalline thallium-activated cesium iodide, 22:47335
light yield of gaseous, 24:19213
light yield of liquid, use of ultrasonic waves for increasing, 23:35487
light yield of polystyrene-base plastic, 25:21392
light yields of alpha and beta irradiated p-terphenyl, anthracene, and napthalene, temperature effects on, 23:47754
linear absorption coefficients for photon interactions in, 25:42133
luminescence decay in organic, 21:6270
luminescence decay time of, correlation analysis of, 24:19209
luminescence of thallium-activated cesium iodide and thallium-activated sodium iodide, bremsstrahlung energy dependence of, 22:12588
luminescence properties of polystyrene, 23:31531
luminescence spectra of liquid organic, after excitation by α, β, and γ radiation and ultraviolet light, 25:15898
luminescence time of anthracene, excited by alpha particles and electrons, 22:43051
luminescence yield of sodium iodide-based, 23:2586
luminescence yield of sodium-activated cesium iodide, in gamma resonance spectrometers, 23:11842
luminescence yield of thallium-activated cesium iodide, in gamma resonance spectrometers, 23:11842
luminescence yield of thallium-activated sodium iodide, in gamma resonance spectrometers, 23:11842
luminescent decay components of, use of composite phosphors for separation of, 22:45291
mass attenuation coefficients of Pilot-B plastic, for 0.36- to 1.33-MeV gamma rays, 25:42064
methods for computer focusing of collimated, during radioisotope scanning, 23:50685
mounting for system of, design of adjustable, 22:10570(P)
neutrino detection in large underground, (T), 25:13830
neutron scattering in lithium-6-loaded, Monte Carlo study of multiple, 25:2456
neutron—gamma discrimination in, circuit for, 25:1739(R) (NYO-73-293)
noise pulses in, design and performance of circuit for eliminating, 23:29197
noise reduction in sodium iodide, for biomedical x-ray spectroscopy, 22:36078 (CONF-680303-, pp 205-12)
operation and calibration of low-level, for measuring radon leakage rate from radium sources, 23:38264
operation and performance for detecting alpha and beta particles, 23:9699 (PHS-999-RH-32)
operation and performance of 3-liter liquid helium, 24:7650 (N-69-38182)
operation and uses for health physics, 21:17888
operation and uses of, review of principles of, 23:50154
operation characteristics for extreme low-level counting, method for determining optimum, 23:2620
operation for gamma radiometric well logging, 24:27460
operation of, 23:50131
operation of organic, with pulse discriminator for gamma dosimetry in mixed fields, 24:19215
operation of shower, for energy measurement of high-energy electrons and photons, 25:13300
operation of thallium-activated sodium iodide, for gamma spectroscopy, 22:2410
operation of, relation between statistical mechanics and quantum theory of measurement in, 21:3264
operation with semiconductor detector for α—γ coincidence measurements, 23:40610 (CEA-N-1044, pp 331-80)
operation without upper discriminators of liquid, for measuring activities of beta sources, 23:623
optical contacts for, performance of silicoorganic compounds as, 24:27359
optical contacts for, performance of water-soluble epoxy cement as, 24:27358
optical homogeneity of phosphors in, 22:38003
optical properties of assemblies of cylindrical, computer evaluation of, 24:48279
optical properties of assemblies of, computer evaluation of, 24:46473 (UUIP-679)
optical transfer function of, for measuring radioisotope distribution in tissue-equivalent materials, 22:43045
optimization of cerium-activated glass, for alpha detection in high beta backgrounds, 25:23767 (BNWL-CC-2354)
orientation system for balloon-borne cosmic X-ray telescopes, development of, 25:18677
particle track localization in highly absorbing, 23:2556 (ISS-68/18)
performance and calibration of liquid, for determination of potassium-40 in small animals and infants, 23:24451
performance and use of liquid, for beta spectrometry, 21:10666
performance as high sensitivity on-line quantameter for bubble chamber experiments, 24:27419
performance for activity measurements of beta sources, effects of phosphorescence on, 23:24454
performance for brain scanning, effects of scattered radiation on, 23:35786 (ACRH-31, pp 25-44)
performance for bremsstrahlung spectroscopy, 25:21420
performance for clinical scanning, 21:41471
performance for clinical scanning, 21:41470
performance for detection and measurement of beta emission by protein-bound iodine-131 in plasma of man, 22:19353
performance for detection of cosmic x radiation, effects of instrument noise on, 22:28107
performance for detection of fast neutrons during bursts of several microseconds, 23:13976 (CEA-CONF-1049)
performance for detection of radioactive particles in respiratory tract, 22:23508 (SC-M-67-2973)
performance for detection of radon-222, 24:19201 (MIT-952-6, pp 164-84)
performance for detection of x radiation, 24:5869 (AD-692890)
performance for diagnosis by radioisotope scanning, 21:43475
performance for difference gamma spectroscopy, 22:339 (HMI-B-59)
performance for dosimetry in Plexiglas phantoms, 25:35030
performance for dosimetry of β particles on skin or GI tract, 21:8798 (ORNL-4007, pp 243-67)
performance for dosimetry of cosmic protons, 24:31683
performance for dosimetry of meson beams in tissues, 24:34319 (UCRL-19420, pp 82-92)
performance for dosimetry of plutonium deposited in man, 21:36566 (BNWL-SA-997)
performance for dual isotope studies, computer programs for, 22:28273 (ANL-7278, pp 219-49)
performance for dual radioisotope scanning using two rate meters, 23:31852
performance for evaluating surface contamination with soft beta emitters, 22:23547
performance for external counting of actinium-227 and protactinium-231 content of human lungs, 22:43320
performance for gamma rays, reflection buildup factors for, 21:309
performance for γ dosimetry, 21:45629
performance for γ transmission scanning of human bones, 25:4635 (CONF-700515-, pp 48-57)
performance for γ transmission scanning of human bones, 25:4634 (CONF-700515-, pp 33-47)
performance for high-energy proton dose distribution measurements in tissue-equivalent phantoms, 25:6699 (JINR-E16-5384)
performance for high-resolution gamma spectroscopy, 25:48963
performance for high-resolution measurement of fast neutrons from intense plasma discharge, 24:10891 (AD-694513)
performance for high-speed under-the-table section scanning, 23:9984 (UCLA-12-686, pp 21-31)
performance for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance for low-level beta detection, 25:10819
performance for measurement of activity from radon decay products on filter paper samples from air in uranium mines, 22:45561
performance for measurement of americium-241 γ transmission through human tissues for measurement of bone mineral content, 25:21762
performance for measurement of α activity on filter samples, 21:28495
performance for measurement of beta dose distribution in tissue-equivalent phantom, 23:38254
performance for measurement of γ activity in atmospheric samples, 22:45563
performance for measurement of γ activity in milk samples, 21:28244
performance for measurement of high-energy gamma spectra in strong neutron fluxes, 25:18735 (INR-1224)
performance for measurement of iodine radioisotopes in tap water, 22:6815
performance for measurement of penetrating, soft photon-emitting radioisotopes in man using thallium-activated cesium iodide and sodium iodide detectors in anticoincidence, 23:45728 (AD-690243)
performance for measurement of photon transmission in bones, 21:21881
performance for measuring activity from β-emitting radioisotopes, 23:47
performance for measuring cascade shower production in electron reactions with lead at 115 and 217 MeV, 23:10736
performance for measuring plutonium content of low-level scrap at fuel fabrication plants, 24:44222 (BNL-50205, pp 16-25)
performance for monitoring of krypton-85, 21:16142 (NYO-841-5)
performance for monitoring reactor buildings, 23:29506(R) (THAI.-AEC-21)
performance for multi-isotope color scanning, 21:41443
performance for neutron activation analysis, 23:35493
performance for neutron detection, 24:18901(R) (LA-4320)
performance for neutron dose equivalent rate evaluation, 21:8594
performance for on-line noble-gas fission-product monitoring in EBR II, 25:51873
performance for oscillographic recording of shape of short pulses of radiation, 24:27361
performance for partial- or whole-body measurements of γ from radioisotopes deposited in human body, evaluation of counting geometry for, 25:8687
performance for polarization measurements of gamma radiation, effects of detector size on, 23:43554
performance for profile scanning of γ-emitting radioisotopes in man, 22:6798(R) (IAEA-2819-6)
performance for quantitative determination of radioactivity on autoradiographic sections, 23:31856
performance for radiation-leakage testing of containers for shipping radioactive materials, 25:51819
performance for radiodiagnosis, 22:25959
performance for radioisotope scanning, effects of collimation on, 23:14217 (ORO-2401-15)
performance for rectilinear scanning of iodine-131 in thyroid, 22:51784
performance for scanning brain tumors with technetium-99, effects of collimator resolution on, 22:49417
performance for scanning iodine-131 in thyroid gland, 21:43476
performance for scanning lung carcinomas after administration of mercury-197 followed by iodine-131, 21:22523
performance for scanning radioisotope distribution in patients, effects of multihole focusing collimator on, 23:12147 (NYO-910-75, pp 2-10)
performance for scanning radioisotopes in human organs, 22:40804
performance for scanning technetium-99 in human brain, 22:25933
performance for scanning technetium-99 in human brain, 22:25934
performance for scanning thyroid gland in man, 22:38362
performance for scintiscanning of brain tumors with technetium-99-labeled pertechnetate, 22:540
performance for simultaneous detection of two indicators in circulating blood, 21:45518
performance for simultaneous measurements of γ emission from two isotopes, by use of dual-channel pulse height analyzer, 22:49402
performance for simultaneously scanning iodine-131 and sodium-22 in human patients, 23:50741
performance for soil density measurements by gamma scattering, 21:3333
performance for strontium-85 scanning for diagnosis of bone neoplasms, 21:24533
performance for studying $e^+ + e^-$ interactions in colliding beams, 24:18059 (CERN-69-29, pp 61-95)
performance for studying electron—photon showers in electron reactions with lead at 115 and 217 MeV, 23:11759(T) (ORNL-tr-2069)
performance for studying nuclear events by coincidence method, 23:11794
performance for time-of-flight neutron spectroscopy, 24:44290 (CONF-691101-, pp 537-51)
performance for void fraction measurement in two-phase flow, 21:17777(R) (RT/ING-(66)11)
performance for whole-body counting of radioisotope distribution in man, 21:45672 (ORAU-101, pp 166-8)
performance for whole-body γ dosimetry of man, 22:6848
performance for x-ray fluorescence analysis of materials excited by beta sources, 23:17766
performance for xenon-133 scanning of human lungs for lung volume and function, 25:4671
performance in broad-range magnetic spectrometers, 21:32406
performance in counting beta activity of radioisotopes, 21:14433 (NP-16483)
performance in GEC-AEI MS 5 mass spectrometer, 24:20982
performance in γ cameras, 21:22473 (ACRH-26, pp 57-64)
performance in γ cameras, 21:24465
performance in γ cameras, 21:22472 (ACRH-26, pp 52-6)
performance in γ—γ coincidence measurements, effects of photoelectron statistics on time correlations in, 21:17870
performance in high-quantum rapid scanner, 22:10782(R) (UCLA-34-P-119-10)
performance in measurement of iodine-131 burdens in calves, 21:45516
performance in measuring average number of prompt neutrons emitted during fission, effects of fission-delayed gamma rays on, 23:16113
performance in measuring α activity of natural environment samples, 22:2211
performance in medical scanning, 21:39482
performance in multiple detector system for use for brain scanning, 21:22519
performance in radiation dosimetry, book on, 21:17901
performance in system for measuring and controlling radon content of water, 25:21715
performance in tracer studies of drug metabolism in rats, 25:46667
performance of alpha, for radiometric and dosimetric application, 22:25648
performance of anthracene crystal, in electron—gamma correlation spectrometers, 21:17847
performance of argon and helium, for detection of charged particles and fast neutrons, 23:14008
performance of automated, for fallout analysis, 21:1459(R) (TID-23369)
performance of Bonner polyethylene-moderated, for measuring stray neutron spectra around accelerators, 24:50567
performance of Bonner-type europium-activated lithium iodide, for neutron dosimetry, 23:4839 (ORNL-TM-2334)
performance of boron polyester, for thermal neutron spectra in reactors, 21:6269
performance of cadmium fluoride, for gamma spectrometry, 21:6272
performance of cadmium-loaded liquid, for measurement of average prompt neutron yield per fission, 24:39218 (JINR-P3-5119)
performance of carbon tetrafluoride gas, for kinetic energy measurements of fission fragments, (E/T), 25:42076

performance of cesium iodide transition, for detection of 0.4- to 4-GeV electrons, 24:48321
performance of Cherenkov—scintillation detector combination for cosmic particle mass discrimination in large aperture range telescope, 25:49005
performance of coincidence plastic—thallium—activated sodium iodide, for time and energy measurements, 24:44282
performance of collimated two-headed, for radioisotope scanning, comparison of, with gamma cameras, 22:49418
performance of collimated, for radioisotope scanning, 23:12068 (ORO-2401-11)
performance of derivatives of 1,3,4-oxadiazole, 24:5897(P)
performance of deuterium-containing, for fast neutron spectroscopy, 23:11831
performance of dioxane—naphthalene as, 21:5804
performance of dispersed lithium fluoride and silver-activated zinc sulfide, for detecting slow neutrons, 22:47334
performance of doped thallium chloride, for gamma detection, 24:39286
performance of double-chamber gas, for fast neutron fission cross section measurements, 24:47891 (ANL-7610, pp 369-464)
performance of dual crystal, for use with rate meters for radioisotope localization of tumors in human brain, 22:49404(P)
performance of dual phosphor, with photomultipliers and pulse-height discriminators for measurement of α and β activity on human hands, 22:45562
performance of dual, with coincidence circuits, for localization of positron-emitting radioisotopes in brain tumors, 24:29798
performance of dual-phosphor, for simultaneous measurement of α and β activity on filters, 22:45563
performance of enriched europium-activated lithium iodide, for neutron flux measurements, 25:39728
performance of europium-activated calcium fluoride, for monitoring tritium in natural gas producing wells, 23:24437 (UCRL-50007-68-2, pp 46-50)
performance of europium-activated calcium fluoride, for low-level tritium detection, 23:24436 (UCRL-50007-68-2, pp 43-6)
performance of flat large-area, for high-energy interactions of cosmic rays, 25:57828
performance of flexible esophageal probe containing, for scanning blood circulation in human heart, 22:36294
performance of gamma camera, line-source phantom for testing, 22:38039
performance of gel suspension, for determination of specific activity of carbon-14-labeled barium carbonate, 24:4430
performance of γ—γ coincidence, for activity measurements of low-level positron sources, 24:36564
performance of helium, 23:43530
performance of hodoscope, for missing-mass measurements of $p + d \rightarrow {}^3He + \omega^0$ interactions at 3 GeV, (E), 24:30439 (CONF-690521-, pp 326-36)
performance of Hornyak button, in neutron hodoscope for fuel meltdown testing in TREAT, 22:28076
performance of in-line, at Marcoule plutonium extraction plant, 22:7 (CONF-671012-2)
performance of Insta-Gel liquid, for measuring tritium activity of tissue homogenates, 25:46437
performance of intrauterine, radiodiagnosis for cervical lesions using phosphorus-32, 21:22620
performance of large area liquid, for determining electron density in extensive air showers, 22:316
performance of large area, for high-resolution time-of-flight measurements, 23:2594
performance of large liquid, for neutron capture cross section measurements, 25:2435 (RPI-328-202)
performance of large organic, 22:51305 (LA-3848, pp 75-96)
performance of large plastic, for neutron detection in missing mass studies, 23:47821
performance of large thallium-activated sodium iodide, for measuring whole-body radioactivity, 25:37562 (NP-18809, pp 4.1-6)
performance of liquid helium, for neutron detection, 25:4321 (LA-4465, pp 31.1-2)
performance of liquid helium, for neutron polarization measurements, 25:51874
performance of liquid, for absolute alpha counting of uranium in uranyl nitrate solution, 21:19941
performance of liquid, for beta sources, 24:25255 (AD-689453)
performance of liquid, for counting β particles from tritium decay, 22:51240
performance of liquid, for detection of carbon-14-labeled compounds, 25:57752
performance of liquid, for detection of weak beta sources, effects of presence of gases on, 23:50150
performance of liquid, for determination of radon daughters on filters, 25:18768
performance of liquid, for high efficiency counting of berkelium-249, 24:39219 (KR-139)
performance of liquid, for nuclear spectroscopy, 21:41211
performance of liquid, for phosphorus-32 and strontium-90 determination in urine using Cherenkov effect, 23:11757 (EUR-4084)
performance of liquid, for potassium-42 and sodium-24 activity measurements, 21:6280
performance of liquid, for radiocarbon age estimation, 24:4381
performance of liquid, for reproducible measurements of iron-55 and iron-59 used as tracer, 23:19977
performance of liquid, in radiation control laboratories, 25:55217
performance of lithium-glass and NE-213, comparison for fast neutron, (E/T), 24:13538(R) (GA-9817)
performance of lithium-glass, peak—trough ratio for mixed neutron—gamma detection, 23:2565
performance of LSC-502, for carbon-14 determination in Sugi seedlings, 24:9665
performance of moving and stationary, for isotope scanning, computer calculation of modulation transfer function for evaluation of, 22:51809
performance of Moxon—Rae, for thermal neutron capture cross section measurements, 24:50558
performance of multi-probe, for rapid scanning of human organs, 22:33839 (UCLA-12-640, pp 1-30)
performance of multisphere europium-activated lithium-6 iodide, for personnel neutron dosimetry, 25:18800(T) (SC-T-713009)
performance of multisphere lithium iodide, for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance of NE 213, for neutrons, 25:25724(R) (RLO-1388-121)
performance of NE-213 liquid organic, for fast neutron spectroscopy, 25:15880 (ANL-7760(Pt.1), pp 67-73)
performance of neutron, for remote determination of plutonium in process materials, 22:25443 (ANL-7375, pp 46-94)
performance of organic liquid, for neutron spectroscopy at 0.5 to 15 MeV, 24:31734
performance of organic, for measurement of fast neutron scattering cross sections, 24:47563
performance of organic, for x-ray detection, 25:55030
performance of paraffin-moderated, for monitoring fast neutrons by detection of prompt gamma radiation from (n,γ) reactions with hydrogen, 23:35477
performance of petroleum-based liquid, 25:8527
performance of plastic, for dosimetry of gamma and x radiation, 21:26258
performance of plastic, for gamma and neutron detection in mixed fields, 23:11763
performance of plastic, with lead converter as high-sensitivity double on-line quantameter for bubble chamber experiments, 24:27404 (LNF-69/67)
performance of polyethoxylated surfactants in toluene for tritium counting by, 24:48286
performance of polystyrene-based, effects of age on, 24:27367
performance of portable, for gamma dosimetry, 25:32222
performance of probe-type, for measurement of rectal γ dose from radium implants in human vagina, 22:51610
performance of proton-recoil liquid, for neutron spectroscopy, 25:415 (N-70-30593)
performance of remote multiple, for monitoring β activity in air, 22:23505 (LF-38, pp 103-7)
performance of sandwiched-type, for high resolution neutron fission cross section measurements, 21:3254
performance of sodium iodide well-type, for low-level gamma samples, 24:50574
performance of sodium iodide, for americium and plutonium determination in lungs, organs, and wounds, 25:6533 (BNWL-SA-3397)
performance of sodium iodide, for determining purity of radioisotope preparations, 22:2411
performance of sodium iodide, for gamma spectroscopy of $(n,n'\gamma)$ reactions, 22:32561
performance of sodium iodide, for measuring thick-target bremsstrahlung spectra produced by electron reactions with gold—tungsten target at 5.3 to 20.9 MeV, 23:16133 (EGG-1183-2179)
performance of sodium iodide, for monitoring cesium-137 in chopped beef, 25:23818
performance of sodium iodide, for noise measurements in exponential piles, 25:37086
performance of sodium iodide, for soil water measurements, 25:13110
performance of sodium iodide, for whole body counting, 23:4802(T) (ANL-Trans-688)
performance of sodium iodide, for x-ray detection relative to other detectors, 25:15900
performance of sodium iodide, with germanium detector for gamma spectroscopy, 23:14022 (CEA-CONF-1200)
performance of sodium iodide—anthracene and sodium iodide—plastic, for measuring difference-gamma-spectra, 23:7783
performance of sodium-activated cesium iodide, 23:726
performance of spark-imaging camera type, for radioisotope scanning, 21:1606
performance of split annulus thallium-activated sodium iodide, for coincidence, anticoincidence, and pair spectroscopy, 24:11824 (COO-1779-19)
performance of split-annulus sodium iodide, for gamma spectroscopy, 24:48310
performance of stationary, for scanning flow of metastable technetium-99-labeled embolus through heart chambers, 25:11120
performance of stilbene, for equivalent dose measurements of mixed gamma and neutron field, 24:46470 (LNF-70/31)
performance of stilbene, for fast neutron spectroscopy, 25:34920 (UARAEE-91)
performance of stilbene, for low-energy neutron—gamma discrimination using photomultiplier space charge method, 23:17767
performance of stilbene, for measurement of neutron spectra from americium—beryllium source, 25:18761
performance of submersible, for undersea phosphorite prospecting, 24:48177
performance of telescopes of, with a magnetic analyzer for measuring D(p,2p) reaction cross sections under 12 kinematical conditions, 23:47793
performance of thallium-activated cesium iodide and sodium iodide, as converters in x-ray radiography, 22:43070
performance of thallium-activated cesium iodide, for rapid detection and identification of beta sources, 23:14024 (SZS-13/68)
performance of thallium-activated sodium iodide and sodium-activated cesium iodide, for beta detection in anti $\nu + p \rightarrow e^+ + n$ interactions, 23:34523(R) (SRO-474-1)
performance of thallium-activated sodium iodide for gamma spectroscopy at 2 to 12 GeV, 22:40455
performance of thallium-activated sodium iodide, (E), 21:1580
performance of thallium-activated sodium iodide, (T), 21:1579
performance of thallium-activated sodium iodide, compared with lithium-drifted germanium semiconductor, 24:67
performance of thallium-activated sodium iodide, effect of lead impurity on, 22:324
performance of thallium-activated sodium iodide, effects of optical characteristics on, 25:21393
performance of thallium-activated sodium iodide, effects of various thicknesses of light pipes on, 21:39240
performance of thallium-activated sodium iodide, for measuring activity of beta emitters, 23:9726
performance of thallium-activated sodium iodide, for well logging, temperature effects on, 24:41653(T) (CSIRO-Trans-10070)
performance of thallium-activated sodium iodide, for determining uranium-235 in liquid and solid wastes, 25:48788 (CONF-710617-17)
performance of thallium-activated sodium iodide, for coincidence-anticoincidence gamma spectroscopy, 21:19937
performance of thallium-activated sodium iodide, in Compton-suppressed low-level gamma spectrometers for extended samples, 25:18752
performance of thallium-activated sodium iodide, in activation analysis, 23:4559
performance of thallium-activated sodium iodide, with RCA 8575 photomultiplier tubes, 21:12644 (USNRDL-TR-1099)
performance of thin plastic 2π, for measuring low-level beta activities, 22:51227
performance of three optically-coupled thallium-activated sodium iodide, for total absorption electron and gamma spectroscopy, 24:39338
performance of toluene—Triton—Hyamine, for tritium determination in plasma and urine, 24:16844
performance of total absorption thallium-activated sodium iodide, for detection of high-energy electrons and gamma rays, 23:29144 (AD-683701)
performance of total absorption, for neutral hadrons at 200 GeV, 24:50621 (TID-25473(Vol.3), pp 57-63)
performance of trans-stilbene, for measuring dose equivalent in mixed gamma—neutron field, 25:44699
performance of Triton X-100, for calcium-45 determination in serum and urine, 24:486
performance of well-type sodium iodide, for fission fragment detection in fallout, 23:19929 (CONF-680507-, pp 84-9)
performance of whole-body counter using, for personnel γ monitoring, 21:8798 (ORNL-4007, pp 243-67)
performance of whole-body liquid, for determination of calcium retention in rats, 23:33587
performance of whole-body, for scanning of man, 22:38406
performance of zinc sulfide, for continuous monitoring of uranium in solution, 24:483 (NP-18022)
performance of, design of equivalent circuit for analyzing statistical, 21:6209
performance of, effects of sample preparation on, 22:12265
performance of, for determination of colored organic compounds, 21:2955
performance of, for neutron dosimetry, 21:1769
performance of, statistical equivalent circuit for determining, 21:273 (CISE-101)
performance of, with coincidence circuits for detection and measurement of γ radiation from reactions of high-energy α particles in tissues, 23:29508 (UCRL-18347, pp 155-70)
performance parameters for neutron detection, 25:21395
performance testing of sodium iodide, by single-channel counting, 21:1635
performance testing of, for radioisotope scanning, 21:305
performance with image intensifiers for detection of cosmic showers, 24:29538
phosphor evaluation for, 21:34311(R) (NYO-1396-103)
phosphorescence in thallium-activated sodium iodide and thallium-activated cesium iodide, long-lived, 22:14759
phosphorescence of thallium-activated and sodium-activated cesium iodide, 25:18648
phosphors for, description of highly-transparent plastic, 23:45528
phosphors for, preparation of oxadiazole derivatives for use as, 24:5893(P)
phosphors for, properties of N-substituted indoles in toluene as, 24:5915(P)
photodiodes for, survey on, 23:50111 (CEA-Bib-169).
photoelectron yield in thallium-activated sodium iodide, measurement of primary, 22:16880
photofractions for thallium-activated sodium iodide, method for representing experimental and Monte Carlo gamma, 23:16117
photomultiplier circuit design for, for noise discrimination, 23:13996(P)
photomultiplier design for, used in neutron time-of-flight spectroscopy, 23:32902(R) (RLO-1925-20)
photomultiplier for liquid, performance of RCA C31 000D, 25:34895
photomultiplier gain shift due to magnetic fields from polarization analyzers in, used for gamma circular polarization measurements, 23:14002
photomultiplier gating circuit for fast neutron inelastic scattering measurements, 24:11814
photomultiplier light guide for, reduction of radioinduced background using lead glass, 24:48298
photomultiplier operating characteristics for thallium-activated sodium iodide, used for high-resolution gamma spectroscopy, 22:51246 (RT/EL-(68)1)
photomultiplier performance for thallium-activated sodium iodide, 21:24214
photomultiplier tube for liquid, development of XP 1230, 24:39284

photomultiplier tube for low-level, design of, 24: 46492(P)
photomultiplier tubes for liquid, effects on performance of after-pulses in, 22:51224
photomultipliers for eight crystal, amplification stability of, 22:36095
photomultipliers for sodium iodide, for neutron inelastic scattering measurements at 0.8 to 15 MeV, gated, 24: 14294 (RPI-328-176)
photomultipliers for use in spectroscopy, performance of hybrid, 23:47801
photomultipliers for, design with high quantum efficiency and low dark current, 22:40430
photomultipliers for, for use in severe shock and vibration environments, 21:32453
photomultipliers for, gallium phosphide diode light sources for gain stabilization of, 24:14247 (LA-4263)
photomultipliers for, secondary emission processes in, 22:40424
photomultipliers for, servo-circuits for stabilization of, 22:47331
photomultipliers for, single electron sensitivity of, 21: 22155
photon pair response of, effects of, on counting geometry, 22:517
photopeak analysis for gamma spectroscopy, 25:39740
photopeak analysis program for gamma spectrometers of thallium-activated sodium iodide, 22:2405
photopeak count-rates in thallium-activated sodium iodide, from gamma emitters formed by thermal neutron activation, table of calculated, 25:2474 (IAEA-122, pp 150-63)
power supply for portable, design of high-voltage, 23: 19971
preamplifier for, overload cancellation circuit for charge-sensitive, 24:4438
preparation and performance of thin vacuum-deposited sodium-activated cesium iodide, for x-ray detection, 24:4444
preparation of chromium-activated aluminum oxide, 25: 42086(P)
preparation of gadolinium-loaded mineral oil, for neutron detection, 24:39234
preparation of source and enveloping crystals for internal source spectroscopy of electron-capture decay, 25: 25665 (NP-18692)
preparation of thin-film zinc sulfide, for proton detection, 24:48292
properties and uses of plastic, survey on, 24:9662
properties for gamma detection, statistical, 21:24218
properties of argon-filled gas, 22:12589
properties of deuterium, for solar neutrino detection, 23: 42640
properties of europium-activated lithium-6 iodide, at low temperatures, 25:8529
properties of gaseous, 24:41681
properties of lead chloride for use as, 24:29514
properties of liquid, for discrimination of gamma rays and neutrons according to pulse shape, 23:11772
properties of loaded liquid, based on 1,6-dimethylnaphthalene and 1-methylnaphthalene, 24: 39233
properties of multiplex Hadamard-transform telescope, 25:51892 (JINR-P13-5896)
properties of radiometric and dosimetric, for alpha detection, 21:28252
properties of shower, irradiated with 10-, 20.5-, and 28-GeV/c protons, 25:23850 (N-70-42520)
pulse analysis method for particle discrimination, 25: 37602
pulse analysis of proton-recoil stilbene, for fast neutron spectroscopy, 24:2479
pulse analysis of, efficiency of tunnel diode monostable circuits for, 21:3266
pulse analyzer circuits for, design of, 24:14274(P)
pulse analyzer for, description of automatic, 25:29367
pulse analyzers for use with, use of PDP-8 computer for calibration and evaluation of, 22:47409
pulse analyzers for, design of high-speed multichannel semiconductor, (E), 21:6293
pulse converter for, design of fast transistorized time-to-amplitude, 24:5889 (IFA-NR-29)
pulse converters for thallium-activated sodium iodide, for time-of-flight measurements, time-to-amplitude, 22: 38002
pulse converters for use in neutron dosimetry, design of pulse height-to-clock, 24:11792
pulse converters for, design of logarithmic amplitude, 23:45525
pulse decay time measurement of, method for, 24:41678
pulse discrimination in liquid, for detection of alpha particles, beta particles, and protons, 23:2610
pulse discrimination system for neutron—gamma discrimination, zero crossing, 25:32255
pulse discrimination system for stilbene, for neutron identification and recognition of Cherenkov events, 24:11802
pulse discriminator for liquid, for neutron—gamma discrimination, 24:2459
pulse discriminator for NE-213 liquid, for gamma discrimination for neutron detection, 24:50572
pulse discriminator for neutron—gamma discrimination, design of, 23:17778
pulse discriminator for stilbene, minimum charge threshold for, 24:33883
pulse discriminator for, design and performance of neutron—gamma, 23:32902(R) (RLO-1925-20)
pulse discriminator for, design of, 22:47354(P)
pulse discriminator for, for neutron—gamma discrimination, 23:13982 (CEA-CONF-1203)
pulse discriminator for, in coincidence, design of zero-walk charge storage diode, 22:45293
pulse display system for thallium-activated sodium iodide, design of statistical, 21:34517 (ORNL-4091, pp 22-35)
pulse distribution for x-ray detection, pulse shifts and effects of escape peaks on, 23:50152
pulse duration shortening in, design and performance of iterative passive filters for, 23:29178
pulse handling circuits for, for well logging device, 21: 28097(P)
pulse height analyzer for satellite-borne, design of multichannel, 23:26543
pulse height and pulse shape characteristics of anthracene, trans-stilbene, and p-quaterphenyl, effects of zone refining on, 23:29170
pulse height of, effect of anode voltage on, 22:21314 (ORNL-4219, pp 30-5)
pulse height spectra from thallium-activated sodium iodide, calculation of gamma spectra from, 21: 16149(T) (ORNL-tr-1511)
pulse height spectrum from plastic, for detection of protons, tail-to-peak ratio in, 23:29171
pulse height spectrum of charged particles from neutron reactions in stilbene, 25:32265
pulse height-to-energy spectra conversion for gamma spectroscopy, 24:11828
pulse integrator for, 25:37587(P)
pulse pileup in thallium-activated sodium iodide, 25: 6536 (JAERI-Memo-4144)
pulse risetimes in large thallium-activated sodium iodide, for detection for fast neutrons and gamma rays at 8 to 10 MeV, 24:11790
pulse shape discrimination for particle identification, 24: 16856
pulse shape discrimination for thallium-activated cesium iodide, for high-energy neutrons in presence of low-energy gamma rays, 25:48947
pulse shape discrimination in stilbene and NE 213 liquid, for neutrons and gamma radiation, 24:48270
pulse shape discrimination method for liquid, for neutron—gamma discrimination, 24:44260
pulse shape discrimination methods for neutron spectroscopy, 24:16876
pulse shape discrimination of thallium-activated cesium iodide, at 200 to 360°K, alpha—gamma, 22:25643
pulse shape discrimination properties of organic and inorganic, 25:48927
pulse shape discrimination properties of sodium-doped cesium iodide, 25:48927
pulse shape discrimination with organic liquid, 24:39238
pulse shape discriminator for measurement of characteristics of electrons and protons for use in OSO-4 satellite, engineering drawings for, 23:31549
pulse shape discriminator for neutron—gamma discrimination in NE213 liquid, 25:8507
pulse shape discriminator for thallium-activated cesium iodide, design and performance of, 23:19974
pulse shape discriminator for, design of zero-crossing, 23:655
pulse shape discriminator system for stilbene, for neutron and gamma discrimination, 25:8525
pulse shape discriminators for neutron—gamma discrimination in liquid, performance of, 25:8506
pulse shape discriminators for thick liquid, for detection of low-energy mesons (K^+), 23:35459 (ISS-68/45)
pulse shape discriminators for, design of, 21:41271(P)
pulse shape observation and discrimination for, sampling method for average, 21:17872
pulse shaper circuit for improved time resolution, 25: 18639 (IFVE-SEF-69-44)
pulse shaper for, design and performance of, 25:29347
pulse shaper for, design of, 25:29342
pulse shaper for, design of compensated high-speed, 25: 48999
pulse shaper for, trigger circuit for, 24:33868 (JINR-P13-5065)
pulse shaper—discriminator system for thallium-activated cesium iodide, performance of, 22:28119
pulse shapes from, differences between noise and scintillation, 25:15901
pulse shapes of anthracene, scintillation and fluorescence, 24:25277
pulse shaping and timing circuits for, design of, 23: 40986 (EUR-4289, pp 93-4)
pulse shaping in coincidence circuits using, in nanosecond range, 23:31537
pulse shaping in fast coincidence circuits using thallium-activated cesium iodide and sodium iodide, amplifier—limiter for, 23:31535
pulse spectra of plastic, from 2.55-MeV neutrons, 21: 3259
pulse spectrum from thallium-activated sodium iodide, electronic equipment for stabilizing, 21:22125 (AERE-M-1832)
pulse spectrum of plastic, for cosmic ray detection at sea level, anomalous, 25:35010
pulse time behavior of, delayed coincidence method for fast, 21:1619
pulse-height analysis of organic, for gamma spectroscopy, 25:23795
pulse-height analysis of organic, for neutron spectroscopy, 25:18766
pulse-height analysis of, convolution method for, 24: 29544
pulse-height distribution data for gamma spectroscopy, use of computer for analyzing, 22:28155
pulse-height distribution data from, experimental sampling results for regression analysis of, 21:39202
pulse-height distribution data from, methods for unfolding, 21:39226
pulse-height distribution for neutrons in organic liquid, computer program for smoothing, 24:2450 (ORNL-TM-2597)
pulse-height distribution from sodium iodide, properties of peaks in gamma sum coincidence, 21:16172
pulse-height distribution of thallium-activated sodium iodide, for x rays in KeV range, 24:33889
pulse-height distributions as function of position of plastic, method for determining uniformity of, 21: 45420
pulse-height distributions from, computer program for unfolding, 22:49096 (ORNL-TM-2172)
pulse-height distributions from, method for unfolding, 21:1607
pulse-height distributions in thallium-activated sodium iodide, computer program for analyzing gamma-ray, 22:38073
pulse-height distributions of thallium-activated sodium iodide, calibration of gamma sources from, 21:10618
pulse-height response function for NE-213, NE-218, Pilot B, and stilbene, for neutrons at 1 to 14 MeV, 23: 38249 (UCRL-50653)
pulse-height response of activated alkali-metal iodide, to energetic heavy ions, (T), 25:55016
pulse-height spectra from gamma spectrometers of, program for digital computer gain changing of, 23: 14028
pulse-height spectra from in-core lithium-drifted, iterative unfolding of Compton spectra for analyzing gamma, 22:49094 (AERE-R-5653)
pulse-height spectra from sodium-iodide, coincidence summing in analysis of complex gamma, 21:26184
pulse-height spectra from thallium-activated sodium iodide, method for efficient representation of, 22: 16866
pulse-height spectrum unfolding for NE-213, for neutron spectroscopy, 25:4365
pulse-shape discrimination in anthracene, 24:16860
pulse-shape discrimination in organic, for intermediate neutron spectroscopy, 24:44302
pulse-shape discrimination in, review of methods for particle identification using, 25:23815
pulse-shape discrimination study of neutron reactions with cesium iodide, at 13 to 15 MeV, 24:16857
pulse-shape discriminator for NE 213 organic, for neutron time-of-flight spectrometry, 23:7281(R) (ORNL-4280)
pulse-shape discriminator for proton-recoil neutron spectroscopy, 24:29548
pulse-shape discriminator for stilbene, for neutron spectroscopy, 22:28159
pulses for, used in nuclear spectroscopy, oscillators base on silicon carbide and gallium phosphide diodes for production of reference, 22:2393 (JINR-P13-3523)
pulses from, design of coincidence circuits for recording, 22:6584
pulses from, digital recording of, 21:35039 (BMwF-FBK-67-39)
pulses from, superposition of, 21:8644
purification of organic crystal, 24:39221 (ORNL-4446, pp 242-50)
quantum efficiency of argon, krypton, and neon, for x-ray detection, 22:28112
quench correction by gain ratio method in liquid, 23: 24453
quench correction in liquid, calculation of channel ratios for, 23:11790
quench correction in liquid, use of external standard and channel ratio techniques for, 22:40374
quench corrections in liquid, for determination of carbon-14, 23:17755
quenching corrections in carbon-14 measurements with liquid, computer program for, 22:51229
quenching corrections in liquid, channel-ratio method for, 23:6289
quenching corrections in liquid, methods for, 23:19951
quenching corrections in, determination of, 21:46999(R) (AERE-PR/HPM-11)
quenching determination by channel-ratio method in liquid, source of errors in, 23:19978
quenching effects in liquid, 24:11780
quenching effects in liquid, method for automatic compensation for, 25:34912(P)
quenching effects in tritium-counting liquid, channel-proportional method for correction of, 23:43527
quenching in liquid, apparatus and method for compensation for, 25:32229(P)
quenching in liquid, device for simulating, 24:14281(P)
quenching in liquid, method for lipid mass determination using color, 23:21621
quenching of gamma rays in liquid, diminishing electric field for, 24:11785
quenching of toluene-base liquid, with copper and iron powder, 25:8526
quenching properties of organic compounds in liquid, 25:365 (AD-806313)
quenching properties of silica scintillating gels in liquid, 24:25289
quenching reduction in activity measurements with liquid, of neptunium, protactinium, and thorium, 23: 625
radiation damage to plastic, for beta detection, 22:10561
radiation damage to plastic, gamma, 25:35079
radiation effects on boron-10—zinc sulfide, thermal neutron, 25:18880
radiation effects on plastic, ultraviolet, 25:42231
radiation effects on resolution of sodium iodide crystals in, x, 21:6301
radiative transfer in benzene—2,5-diphenyloxazole—POPOP, 24:7633
radioinduced scintillation processes in gaseous, 23:24448
radioisotope activity data from liquid, computer program for calculating, 22:4448
radioisotope activity data from liquid, system for transfer to punched cards, 22:4448
readout system for, design of, 22:10569(P)
reference light signals for, use of gallium phosphide and silicon carbide electroluminescent diodes for producing, 23:11766
reliability of thin plastic 4π, for low-level strontium-90 and yttrium-90 determination, 24:20993
research progress on, 21:43012
resolution and linearity of helium gas, for neutrons, 25: 22972(R) (COO-1573-71)
resolution and linearity of high-pressure helium gas, 22: 10562
resolution and pulse correlations of gas proportional scintillation detector for x-ray detection, 24:11820

resolution correction for spectra of recoil deuterons scattered by 2.7- to 14-MeV neutrons, 22:16864
resolution for gamma spectroscopy, background, shielding, and collimation studies for increasing, 22:8378
resolution for spectroscopy, single-electron method for measuring photopeaks, 25:18745
resolution for x-ray spectroscopy, 23:29145 (AD-683706)
resolution of cone-shaped, effects of scintillator composition and sensitive volume, 21:39247
resolution of fast coincidence sodium iodide, time, 22:32961 (ANL-7310, pp 377-430)
resolution of gamma, statistical method for determining, 21:39239
resolution of large sodium iodide, for detection of electrons at 25.2 and 40.8 MeV, 24:2468
resolution of sodium iodide, for gamma spectrometry, venetian blind inserts for improving, 25:48967
resolution of sodium iodide, in gamma spectrometer, 22:19151
resolution of thallium-activated cesium iodide and sodium iodide, for gamma radiation in betatrons, 21:4708
resolution of thallium-activated cesium iodide, at 200 to 360°K, for alpha particles, 22:25643
resolution of thallium-activated sodium iodide, for high-energy particle spectroscopy, 23:47843
resolution of thallium-activated sodium iodide, for gamma spectroscopy, 22:30845
resolution of thallium-activated sodium iodide, for gamma spectroscopy, effects of energy on, 22:38074
resolution of thallium-activated sodium iodide, improvement of, 23:11828
resolution of thallium-activated sodium iodide, intrinsic, 22:40430
resolution of thallium-activated sodium iodide, use of summing Compton spectrometer for determining, 23:16138
resolution of, effects of cathode uniformity of photomultipliers on, 21:32454
resolution of, with cylindrical scintillators having reflecting walls, 22:43072
resolution, stability, and noise of, automatic device for measuring, 22:45307
resolving power of, for alpha spectroscopy, 23:11840
resolving time in, theoretical analysis based on single photoelectron response function of, 21:39223
response and intrinsic line-widths of thallium-activated sodium iodide, for electron and gamma detection, 24:4449
response calculations for disperse, for gamma dosimetry, 23:26589
response data for organic, analysis of, 24:29513
response for alpha monitoring, effects of source distance on, 23:43519 (LA-4168)
response for gamma spectroscopy, 22:8381
response for nuclear weapons testing, 23:35455 (AD-684029)
response for radioisotope scanning, effects of scattered radiation on, 23:606 (ACRH-1000-79)
response function for sodium iodide, Monte Carlo calculation of, 25:54994 (EGG-1183-2283)
response function for, determination of, 22:19099 (UCID-4675)
response function matrices for thallium-activated sodium iodide, method for semi-automatically generating, 24:39348
response function of plastic, for unfolding beta spectra, 23:43573
response function of thallium-activated sodium iodide, for gamma spectroscopy, 25:10865
response function of, single photoelectron technique for measuring, 25:23813
response functions for collimated 5 in. x 5 in. thallium-activated sodium iodide, gamma, 23:7281(R) (ORNL-4280)
response functions for liquid NE 213, Monte Carlo calculations of gamma, 23:7281(R) (ORNL-4280)
response functions for liquid NE-213, for fast neutron spectroscopy, 24:9675
response functions for liquid, computer program for calculating, 22:9921 (JUL-Conf-1)
response functions for monoenergetic neutrons at 0.25 to 1.25 MeV, 25:10832
response functions for NE-213, for neutrons at 1 to 9 MeV, 23:2635
response functions for neutron detection, computer program for generation of, 24:9640 (ORNL-TM-2594)
response functions for thallium-activated sodium iodide, Monte Carlo simulation of, 25:39730
response functions of large sodium iodide double-crystal, 22:43027 (LA-DC-9801)
response matrix of sodium iodide, for spectrometry of gamma rays emitted in fission, 24:16873 (ORNL-TM-2865)
response of activated alkali halide, to light and heavy ionizing particles, 25:39736 (LNF-70/53)
response of anthracene crystal, to protons at 200 to 600 keV, 24:46558
response of anthracene, to low-energy electrons, 22:16904
response of californium-252-sandwiched, for coincidence detection of fission fragments, 22:36058
response of collimated thallium-activated sodium iodide, to non-axial point gamma sources, 25:10841
response of collimated thallium-activated sodium iodide, to point, line, and plane gamma sources, 23:43549
response of europium-activated lithium iodide, in polyethylene sphere, to neutrons at energies thermal to 25 MeV, 22:19101 (UR-49-903)
response of europium-activated lithium iodide, to thermal neutrons, 25:18661
response of FIDLER, to low-energy natural background radiation in Livermore Valley, 24:25264 (UCRL-50007-69-3, pp 20-2)
response of large area plastic, uniformity of, 23:634
response of mineral oil-based liquid, to heavily ionizing particles, 24:39222 (PPAR-26)
response of mineral oil-based liquid, to ionizing particles, 25:8511
response of multiplate shower, to neutral cosmic particles, Monte Carlo simulation of, 25:23847 (AD-711287)
response of NE 218 organic liquid, to gamma rays and fast neutrons, 25:6542
response of NE-213 liquid, calculation of gamma-ray, 22:49072 (ORNL-TM-2273)
response of NE-213 liquid, to electrons and protons, 25:18655
response of NE-213, for charged particles, 23:16086 (EGG-1183-2172)
response of organic, to electrons, protons, and deuterons, 22:49087
response of organic, to gamma rays, Monte Carlo simulation of, 25:48977
response of organic, to neutron, computer program using Monte Carlo method for calculating pulse-height distributions for determining, 22:14750 (ORNL-4160)
response of plastic NE 102, 22:2354
response of plastic, for electron detection, 22:16870
response of plastic, for fast neutron detection, 22:2407
response of plastic, peak dose rate for maintaining linear, 22:28064 (CONF-680207-8)
response of plastic, to weakly ionizing radiation, model for nonlinear, 25:15906
response of poly(vinyl toluene), at high radiation doses, 25:57765
response of position-sensitive, for neutron detection, 23:43542
response of sodium iodide, Monte Carlo calculations of gamma, 24:36581
response of sodium iodide, to gamma radiation up to 10.22 MeV, computer program for calculating, 23:29149 (ORNL-TM-2579)
response of sodium iodide, to high-energy gamma rays, 25:39729
response of sodium iodide, to pulsed 14-MeV neutrons, 22:39564
response of thallium-activated alkali halide, pressed from powders, 22:23272
response of thallium-activated cesium iodide and sodium iodide, ion channeling and saturation effects on anisotropy of, (T), 23:26522
response of thallium-activated cesium iodide and thallium-activated sodium iodide, calculations for channeled heavy-ion, 23:7762
response of thallium-activated sodium iodide, of various thicknesses, for detection of 17-, 60-, and 185-keV x radiation, 23:24433 (UCRL-50007-68-2, pp 20-4)
response of thallium-activated sodium iodide, surface effects on electron, 24:36580
response of thallium-activated sodium iodide, to neutrons, 22:8379
response of thallium-activated sodium iodide, to x rays in keV range, 24:33889
response of thallium-doped sodium iodide, to heavy ions and magnetic monopoles, 23:50169
response of thin thallium-activated sodium iodide, for x-ray detection in plutonium-238-contaminated wounds, 22:37995 (SC-TM-68-416)
response of total absorption, proposal for testing at NAL Synchrotron, 24:50619 (TID-25473(Vol.3), pp 49-50)
response of unactivated sodium iodide, to gamma rays at 30 keV to 1 MeV at low temperatures, 25:2436
response of zinc sulfide, for electron and ion detection aboard Explorer 12 satellite, 23:26514 (N-69-14028)
response of, bibliographic review of, 22:36045
response of, low temperature effects on, 24:4455
response to 0.1- to 10-MeV gamma rays and 0.1- to 14-MeV neutrons calculated by Monte Carlo method, 22:21318 (UCRL-50176)
response to rf radiation, 25:23932 (BRH/DEP-70-26, pp 173-81)
response to underwater gamma rays, Monte Carlo calculation to simulate, 21:12622 (AD-638725)
response—energy function for sodium-activated and thallium-activated cesium iodide, for alpha particles and protons, 23:16120
sample cells for liquid, performance of aluminum and Teflon, 25:18666
sample changer design for, 23:38222(P)
sample changer for liquid, design of simple automatic, 22:43067
sample changer for liquid, light seal for, 25:23782(P)
sample changing elevator and light sealing mechanism for liquid, 24:4433(P)
sample container decontamination for, 21:5777
sample containers for liquid, means for removing electrostatic charges from, 24:20983(P)
sample conveying chain for liquid, for spectroscopy, 24:4463(P)
sample handling system for automatic liquid, programmed, 25:42058(P)
sample handling system for, design of automatic, 22:49064(P)
sample holder for well-type, for measuring high levels of radioactivity, adapter for, 23:7759(P)
sample positioning and rotation system for liquid, 25:55027(P)
sample preparation for liquid, 22:28081
sample preparation for liquid, 24:18911
sample preparation for liquid, method for $^{14}CO_2$, 23:21955
sample preparation methods for calcium-45 determination in bones and biological tissue with liquid, 24:29516
sample preparation statistics and theory for liquid, 23:4807 (NP-17693)
sample preparation techniques for, 22:27611
sample rotation system for activity measurements, 24:14276(P)
sample rotation system for gamma-ray analysis by, of chromium-51 and iron-59 content of human feces, 23:2582
sample vial construction for liquid, for spectroscopy, 22:12591(P)
sample vial for measuring gamma radiation or low-energy beta particles, 24:14296(P)
sample vials for liquid, having separate compartment for internal standard radiation sources, 23:26527(P)
sample-handling elevator for liquid, design of, 22:14901(P)
scintillation decay of fast organic, 25:18656
scintillation decay times for sodium-activated cesium iodide, for electrons and alpha particles, 23:16120
scintillation lifetime measurements of, spectrometer for subnanosecond, 25:18696
scintillation light distribution from gamma camera, 21:10620
scintillation yield of liquid, energy transfer theory for, 25:21419
scintillation yields of liquid benzene and alkylbenzene, 25:10822
scintillations from organic, measurement of slow component of, 25:39708(T) (UCRL-Trans-10535)
scintillator for aqueous samples, improved toluene-base liquid, 25:21416
scintillator for large liquid, for thermal neutron detection, 25:29336
scintillator volume in liquid, compensation of activity dependency of, 23:24453
scintillators and sample preparation for tritium determination in urine, liquid, 24:46192
scintillators for liquid, quenching properties of, 23:21978
sensitivity for environmental monitoring of krypton-85, 25:8467 (BRH/NERHL-70-4)
sensitivity for radioactivity monitoring of water, 25:34870 (SZS-2/71, pp 12-22)
sensitivity for use in bremsstrahlung radiography of steel, 22:28117
sensitivity measurements for radiobiological studies, 25:2432 (AD-706587)
sensitivity of Basson, containing boron oxide for intermediate neutron flux measurements, 25:2443
sensitivity of boron-containing polystyrene, for neutron detection, 23:31531
sensitivity of composite and dispersed air-equivalent, 25:32220
sensitivity of granular and glass, neutron, and gamma, 24:33876
sensitivity of liquid, in low-level activity measurements, synthesis of solvents for increasing, 23:2604
sensitivity of liquid, in tritium measurement, effects of vial activity on, 22:28109
sensitivity of moderated, for neutron dosimetry, 22:21362
sensitivity of moderated, to neutrons at 1 to 100 keV, 25:37650
sensitivity of proton-recoil zinc sulfide, for slow neutron detection in radiography, 21:41223
sensitivity of silver-activated zinc sulfide, in Plexiglas matrix for fast neutron flux measurements, 25:2443
sensitivity of sodium iodide, zonal characteristics of, 24:22996
sensitivity of spherical polyethylene-moderated, for neutrons from thermal to 10 MeV, 25:8522
sensitivity of spherical polyethylene-moderated, for thermal neutron detection, 24:11781
sensitivity of thallium-activated sodium iodide, for in vivo detection of strontium-90, 23:50125 (UCRL-50007-69-1, pp 19-21)
sensitivity of whole-body, 23:35473
sensitivity to surface contamination, evaluation of, 24:7845
shielding for neutron scattering experiments, design of shadow bar, 22:322
shielding for radiometric logging, design of adjustable lead, 24:2509
shielding for thallium-activated sodium iodide, for use in gamma spectroscopy, 21:19952
shielding for, design and fabrication of low-background lead, 22:16860
signal output of boron-10 moderated zinc sulfide neutron, temperature effects on, 21:22150
signal output of thallium-activated cesium iodide and sodium iodide, temperature effects on, 21:22150
signal squared-to-background criterion for, analysis of, 23:16095
solute for organic, properties of trinaphthylboron, 24:46478
solute for plastic, properties of 1,1,4,4-tetraphenyl-1,3, butadiene, 25:21410
solutes for liquid, for beta counting, 2-substituted naphth(1,2)oxazole, 25:18731(P)
solutes for toluene-solvent liquid, aromatic nitrile, 25:13214
solvent for aqueous samples for liquid, 24:22599(P)
solvent interactions with scintillators in liquid, interference effects from, 25:26463
solvent preparation and properties for liquid, 23:29168(P)
solvents for liquid, based on quaternary ammonium compounds, 24:39276(P)
solvents for liquid, comparison of pulse shape discrimination capabilities of, 25:8504
solvents for liquid, performance of acetonitrile and benzonitrile, 25:32224
sonication method for counting samples insoluble in counting solution, 21:19566
spectra analysis for stilbene, for fast neutron flux measurements, 25:8509
spectra from stilbene, computer program for unfolding gamma and neutron, 21:41198 (AD-645283)
spectra from thallium-activated sodium iodide, measurement of escape peak-to-photopeak ratios in, 23:19984
spectra shape calibration and peak-to-total ratio measurements of thallium-sodium iodide, 25:34936

spectral distributions in NE213 liquid, time dependence of, 25:18678
spectral matching of various solutes in liquid, to photomultipliers, 22:8343
stability for low-background radiation measurements, alternating counting method for increasing, 22:33650
stability of single-channel, description of internal single-electron-pulse reference distribution for, 23:17284
stability of various components of, 22:38017
stability requirements for well logging, 24:2511
stabilization of bias level of, photocathode illumination system for, 24:9652
stabilization of, hollow-cathode glow-discharge pulsed light source for, 24:9721
stabilization system for neutron spectroscopy, 23:33480
stabilization system for photomultipliers for, 24:39261
stabilization system for spectrometers of, design of, 22:6625
stabilization system for, automatic drift, 25:34913(P)
stabilization system for, for gamma spectroscopy, 22:23309 (CEA-R-3300)
stabilization system for, used in gamma spectroscopy, 21:45403
stabilizer circuit for gamma spectroscopy using, spectrum, 23:2638
standard radiation source for liquid, pneumatic system for positioning, 24:46493(P)
standardization in liquid, AUTAES computer program for automatic external, 21:22140
standardization of quenching effect of liquid, 21:4697
standardization of, for analysis of homogeneous samples labeled with one, two, or three isotopes, 21:15871
standardization of, for spectroscopy, 23:19989(P)
standards for gamma spectrometry using thallium-activated sodium iodide, 22:22575
summing effects in spectrometers of, error compensation system for random, 23:26568
suspensions in liquid, particle size distribution measurements by quenching effects for, 25:51928
temperature effects on thallium-activated sodium iodide, at 20 to 70°C, 25:55025
temperature sensitivity of thallium-activated sodium iodide, for plutonium monitoring, 23:50124 (UCRL-50007-69-1, pp 14-18)
testing and evaluation of, design of α source assembly for, 21:32425
testing large, for operation in magnetic fields, 21:6286
theory for spectrometer, statistical model for timing inaccuracies for nuclear event detection in, 22:28156
theory of liquid, 24:11768
theory of scintillation mechanism in thallium-doped alkali halides, 24:39285
theory of, statistical, 23:41019
thermal stability of thallium-activated sodium iodide, 25:42092
time fluctuations in large, 25:26482
time measuring circuits for, used for fast nuclear lifetime measurements, 23:669
time resolution calculations for, 25:18640 (IFVE-SEF-70-23)
time resolution for time-of-flight measurements, proportional detector compensation geometry for improving, 25:37614
time resolution functions for, calculations of, 23:17103(R) (ANL-7481)
time resolution in, equation for minimum, 23:26519
time resolution of, 21:12675
time resolution of leading-edge and crossover timing systems for, 24:11800
time resolution of NE 111 and Naton 136, 24:4452
time resolution of thallium-activated sodium iodide, 21:23534(R) (ANL-7246)
time resolution of thallium-activated sodium iodide, using first photoelectron triggering for delayed coincidence measurements, 24:39313
time resolution of thallium-activated sodium iodide, for detection of gamma radiation, 21:32409
time resolution of, calculation of, 24:9656
time resolution of, determination of, 24:11809
time resolution of, minimum, 22:16885
time resolution with XP1021 photomultipliers, 24:29517
time walk correction for, 24:29531
timing circuit for large liquid, for neutron capture cross section measurements, 24:4446
timing circuit for, with time shift compensation, 24:29608
timing circuits for 1.25-meter liquid, for keV-neutron capture measurements, nanosecond, 24:14293 (RPI-328-175)
timing in plastic and thallium-activated sodium iodide, crossover and leading-edge, 21:3300
timing properties for subnanosecond half-life measurements, 25:26491 (INR-1213)
timing properties of, 24:29523
timing properties of, in scintillation—photomultiplier systems, 21:45414
timing systems for thallium-activated sodium iodide, constant fraction and leading edge, 24:39262
use as small animal whole-body counter, 21:22308
use comparison with gas-counters for measurement of beta energy from tritium decay, 22:51665
use for alpha and beta discrimination, scintillation color variation for, 21:16180
use for beta spectroscopy, using G—M coincidence trigger, 23:6309
use for calibration of cesium-137 and cobalt-60 gamma sources, 21:1624
use for comparing activities of gamma sources varying by ratios up to 1:1000, 22:14781
use for continuous monitoring of tritiated water, 21:43264
use for counting aqueous solutions of tritium, efficiency of dioxane and toluene blended mixes for, 22:16433
use for detection and measurement of cosmic showers, 23:10961(R) (NP-17704)
use for detection of atoms by detection of secondary electrons, 21:45385
use for determination of equilibrium data for ion exchange systems, 21:163
use for determining carbon-14 and tritium simultaneously in biological materials, 23:16233
use for determining incidence angles of wide atmospheric showers, 21:6249
use for determining liquid volumes by measurement of dilution of radioactive solutions, 23:722(P)
use for dosimetry of artificial and natural radioisotopes in soils, 21:6538
use for dosimetry of radium implants in bladder and rectum, 21:36607
use for elementary particle research at Ames Laboratory, 23:1580 (IS-1900, Paper 6)
use for fast counting in mass spectrometry, 21:24208
use for gamma spectroscopy for studying decay schemes of isotopes, data processing method for, 23:7776(T) (NP-tr-1713)
use for γ—γ coincidence measurement of 0.8 sec half life of isomeric lead-207, 21:25543
use for identification of beta sources, 22:28068
use for in-line monitoring of plutonium concentrations for determining efficiency of Purex process for reprocessing of natural uranium fuel slugs, 23:7761
use for integral dose determination, 21:22418
use for measurement of cesium-137 content of man, reliability of, 21:43370 (TID-23740)
use for measurement of iodine-125-labeled insulin in comparison to gamma spectrometry, 23:7967
use for measurement of iodine-131 uptake in thyroid gland of rats, effect of phosphorus-32 β radiation on, 21:24344
use for measurement of small activity concentrations in beakers, 23:7757
use for measurement of spectra of primary electrons from carbon, lead, and water irradiated with fast electrons, 21:13363
use for measuring absolute beta activity, afterpulsing effects on, 22:49088
use for measuring activity of soil and fallout, 21:4700
use for measuring bremsstrahlung emission by carbon-14 and tritium in rats, 21:41421
use for measuring low-level activities of beta sources, 22:47323
use for measuring renal blood flow by detection of rubidium-86, 21:6593
use for measuring spacecraft leak rates with krypton-85 tracer, 23:2714
use for measuring temperature of molten metals, 22:16778
use for measuring tritium in atmosphere and liquids, 23:7738(T) (WAPD-Trans-102)
use for measuring whole-body potassium content in man, 21:28590 (LA-DC-8780)
use for measuring Windscale AGCR fuel fission rate distribution, 21:21682
use for monitoring alpha particles in radiation and contamination alarm system, 21:22132 (ORNL-TM-1767)
use for monitoring cosmic radiation, (T), 21:29071
use for monitoring of air and dusts in uranium mines, 21:39409(T) (LA-tr-67-66)
use for neutron spectroscopy at 0.025 eV to 25 GeV, unfolding technique for, 22:12596 (RHEL/R-154)
use for neutron time-of-flight spectroscopy, 22:28134 (NYO-3914-1)
use for scintiscanning, evaluation of data recording systems for, 21:30708
use for simultaneous measurement of dose equivalent and quality factor of mixed radiation, 21:26149 (INR-777/XIX/D)
use for spatial detection of neutrons, 21:3280
use for studying cosmic-ray intensity variations, (T), 21:29072
use for tritium counting in aqueous humor of rats, method for liquid, 21:20315(R) (COO-1024-22)
use for uranium determination in personnel at Oak Ridge Y-12 Plant, 21:39408 (Y-KB-77)
use for x-ray fluorescence analysis of binary and ternary systems, 22:30831
use in absolute counting of activity of alpha sources, 21:14444
use in absolute standardization of β- and low energy-emitting isotopes, 21:46999(R) (AERE-PR/HPM-11)
use in Aerial Radiological Measuring System, 22:305 (CEX-59.4(Pt.4))
use in alpha-counting hand and foot monitor, 21:16136 (DP-1080)
use in anticoincidence with semiconductor detectors for background suppression, 22:21308 (BNWL-SA-1515)
use in automatic β—γ and γ—γ angular correlation system, 21:17883
use in coincidence circuits for absolute measurement of beta—gamma activity of radioisotopes, 22:2373
use in coincidence for low-level beta spectroscopy of solid samples, 21:16162
use in coincidence spectrometers for analyzing low-level radioisotopes, 23:11782
use in coincidence system with semiconductors, 21:10604 (IS-1478)
use in combination with surface-barrier detectors for particle—gamma angular correlation measurements, 23:33405
use in Compton polarimeter for linear polarization measurements of gamma rays, 22:25650
use in Compton polarimeter, computer program for determining asymmetry ratio of, 22:25656
use in Compton polarimeter, optimizing sensitivity of, 22:25653
use in cosmic ray telescope, 23:6284 (LA-DC-9627)
use in cosmic ray telescopes, 21:1617
use in counting carbon-14, phosphorus-32, and tritium, singly or in combination, standardization for, 21:17885
use in determination of oxygen in rocks, 21:24113
use in fixed geometry for measuring absolute activity of gamma sources, 21:45347 (INR-799/XIX/NT)
use in gamma cameras, evaluation of design parameters for, 21:10622
use in gamma radiometric level indicator, 23:2686
use in instrument for detecting hidden explosives, 21:24229(P)
use in leak testing reactor fuel cans, 21:32341(P)
use in low velocity water current meter, 21:22033
use in low-velocity ocean current meter, 21:24242
use in low-velocity water current meter, 21:26064(R) (JLI-2748-86)
use in measuring natural gamma radiations inside residential structures, 21:24411 (NIRS-5, pp 63-6)
use in measuring vapor and liquid densities of alkali metals, 21:16081
use in medical research, 21:17786
use in mineral mining machines, 21:1666(P)
use in monitoring drinking water at Hanford, 21:19893 (BNWL-339)
use in monitoring reactor operations, statistics for, 23:500 (IA-1174)
use in multidetector arrangement for linear polarization correlation measurements of γ—γ cascades, 22:6608
use in neutron spectrometer with gamma background discrimination based on time of luminescence, 22:2409
use in neutron spectrometry, gamma background discrimination in, 21:326
use in plutonium wound monitor, 21:3242 (DP-1059)
use in portable gamma spectrometer for monitoring uranium-235 inventories in unirradiated fuel elements, 21:41201 (BNWL-508)
use in radioecology studies of β emitters, 25:2565
use in radiometric techniques for analysis of ores and coal, 21:32266
use in reactor closed-circuit valve-regulated multiple-tube outside-core forced-flow oxygen-containing fluid neutron flux measuring system, description of, 23:2145(P)
use in satellite electron detector, (E), 21:6233
use in studying point defects in solids by scattering of x radiation, 21:19999(T) (UCRL-Trans-10092)
use in system for measuring charge composition of primary cosmic radiation from $Z = 1$ to 50 at 10 GeV to 100 TeV, 22:40412
use in system for measuring differential cross sections for $\pi^+ + d \rightarrow p + p$ interactions at 143 to 264 MeV, 23:8734 (CERN-68-40)
use in telescope counter for recording stopped mesons (π), 23:11797
use in veterinary research, 21:24631
use in welding flaw detection, 21:244
use in well logging, 21:3334
use in well logging equipment with mud-cake compensation, 21:8635(P)
use in well logging system for detecting eipthermal neutrons, 23:650(P)
use in whole-body counters for animals, 22:28130(P)
use in x-ray—alpha coincidence circuit for determining isotopic composition of plutonium, 22:47312 (BNWL-715(Pt.1), pp 20-9)
use of 2,2'-p-phenylenebis[5-tolyoxazole], in radiochemical analysis, 22:45292
use of 4π-internal liquid, for coincidence standardization of electron-capture radioisotopes, 21:17817 (CSIR-253)
use of airborne, for recovering lost truck-transported cobalt-60 source, 23:13968 (CONF-690103-8)
use of alpha, for determining uranium contamination on surface of reactor fuel elements, 21:32446
use of anthracene, with surface-barrier silicon detector for detection and measurement of relativistic electrons aboard satellites, 22:28099
use of B_2O_3—ZnS(Ag), for neutron dose rate measurements, 22:19161 (SZS-2/68)
use of coincidence low geometry, for determining radioisotope decay rates, 21:1623
use of coincidence, for standardization of electron-capture radioisotopes, 22:14765
use of double-channel 4π, for measuring activity of iron-55, 21:14462
use of double-wedge shaped, for determining distribution of electron cascade showers, 21:16173
use of europium-activated lithium iodide, in spherical polyethylene moderator for dosimetry of thermal to 10-MeV neutrons, 22:28182
use of fast plastic, in time-of-flight gamma spectrometer, 21:22127 (FOA-4-4288-21)
use of film-type, for measuring total number of resonance captures in (n,γ) reactions, 22:19095 (IAE-1349)
use of film-type, for measuring total number of resonance captures in (n,γ) reactions, 23:4801(T) (ANL-Trans-642)
use of glass, for determining time dependence of neutron flux, 21:24192 (CTH-RF-10)
use of internal liquid sodium iodide, for measurement of absolute decay rates of electron-capture nuclides, 21:1621
use of large array for studying cosmic radiation, (E), 21:29070
use of large volume liquid, for coincidence counting, 22:38023
use of large, for detecting cosmic radiation, (T), 21:29073
use of liquid naphthalene—dioxan, for activity measurements of aqueous solutions of tritium, cost reduction in, 22:43059
use of liquid organic, for fast neutron spectroscopy, 23:11825
use of liquid, for carbon-14 and tritium determination in microbiological samples, review of, 22:43038
use of liquid, for counting of tritiated compounds absorbed in solid filters, 21:28221
use of liquid, for detection of weak beta sources, 21:34478
use of liquid, for determining beta sources in biological materials, 23:2555 (EUR-4066)

use of liquid, for determining neutron dose equivalent, energy absorption spectrum operator for, 23:4838(T) (NSJ-tr-137)
use of liquid, for determining tritium content in urine of man, 23:6318 (AECL-2702)
use of liquid, for direct determination of short-lived radon daughter products on air filters, 21:16188
use of liquid, for direct measurement of absolute activity of pure beta sources, 24:46494
use of liquid, for measuring carbon-14 activity in carbon dioxide, 23:4811
use of liquid, for measuring carbon-14 activity in powders, 21:28271
use of liquid, for monitoring plutonium-241, 23:2595
use of liquid, for nuclear spectroscopy, review on, 25:8539
use of liquid, for simultaneous counting beta activity of doubly labeled samples, 21:24198
use of liquid, for standardization of alpha emitters, 21:6199 (JUL-411-PC)
use of liquid, in biological studies, 21:12923
use of liquid, in computer-based spectrometer, 22:40454
use of liquid, in counting aqueous tritium- and carbon-14-protein solutions, 21:19951
use of liquid, in neutron time-of-flight spectrometer with neutron—gamma discrimination, 22:49098
use of liquid, in radiocarbon dating, 21:32267
use of liquid, with time-shared computer for spectroscopic analysis of low-level beta-emitting samples, 22:4460 (UCRL-70529)
use of lithium iodide, with polyethylene spheres for neutron dose rate equivalent and flux density measurements, 21:17882
use of lithium-6 fluoride—zinc sulfide sandwiched, for detection and measurement of neutrons, 21:24222
use of lithium-6 glass—liquid scintillator, for measuring low-energy neutron resonance scattering, 21:28237
use of lithium-glass, for neutron time-of-flight spectroscopy at JAERI electron linac, 21:43226 (JAERI-1138)
use of low-level sodium iodide, effects of background cosmic radiation on, 22:2412
use of mobile, in controlling bitumen repair of concrete highways, 21:28171 (SGAE-IB/IA-14/1967)
use of multidetector, for measurement of total radioactivity in man, 22:28544
use of NE-404, as rem responding neutron detector at 4 to 30 MeV, 23:2623
use of neutron—gamma discriminating, for time-of-flight fast neutron spectroscopy, 22:6630
use of organic, for determining neutron intensity in neutron elastic scattering by nuclei, 21:16185
use of organic, for dose equivalent and quality factor measurements in gamma—neutron fields, 22:2369
use of organic, for dose equivalent and quality factor measurements in mixed neutron—gamma fields, 21:45346 (INR-785/XIX/D)
use of organic, for fast neutron spectroscopy, computer program for data analysis for, 22:19135 (ORNL-TM-2112)
use of organic, with tissue-equivalent ionization chambers for determining quality factor and dose equivalent in mixed radiation fields, 23:4849
use of p-bis-(o-methylstyryl)benzene as secondary fluor in liquid, 21:17953(R) (NYO-2085-10)
use of plastic and thallium-activated sodium iodide, for reducing Compton background in lithium-drifted germanium anti-Compton gamma spectrometers, 22:351
use of plastic, for dosimetry of fast neutrons, 23:11763
use of plastic, implanted in eye of dogs, evaluation of, 22:31119
use of plastic, in fast neutron time-of-flight spectrometer, 22:19137
use of plastic, in magnetic intermediate-image beta spectrometer, 23:7781
use of range telescope plastic, for identification of photoproduced 175- to 300-MeV mesons (K), 21:8599
use of silver-activated zinc sulfide, for determining radium content in radon, 21:26199
use of silver-activated zinc sulfide, for monitoring alpha contamination of protective clothing at Hanford laundry facilities, 23:11753 (BNWL-SA-2045)
use of slow, for reduced resolution time in fast-coincidence circuits, 21:43234
use of sodium iodide, densitometer for snowpack profile measurement, 21:1449
use of sodium iodide, for $4\pi\beta$-γ coincidence measurements of decay rates of radioisotopes, 21:14467
use of sodium iodide, for coincidence $4\pi\beta$-γ measurements of decay rates of radioisotopes, 21:14466
use of sodium iodide, for detection of low-level beta radiation in presence of gamma radiation, 21:28379
use of sodium iodide, for determining rate of mixing and distribution of different-sized particles in fluidized beds, 21:8640(R) (IDO-17211)
use of sodium iodide, for whole-body gamma spectroscopy, 22:4458(R) (NYO-3136-4)
use of sodium iodide, in computer-based in vivo radiation monitor, 22:12575 (Y-1595)
use of sodium iodide, in sum-coincidence gamma spectrometer, 23:2630 (IAE-1457)
use of sodium iodide, in three-crystal pair gamma spectrometers, 22:8369
use of sodium iodide, with germanium detectors for gamma spectroscopy, 21:32403
use of sodium iodide, with gridded ionization chambers for alpha—gamma angular correlations, 22:23282
use of sodium-iodide, for accurate measurements of global gamma background, 21:1636
use of stilbene single-crystal, for fast neutron spectrometry, 21:327
use of stilbene, for simultaneous neutron and gamma spectroscopy, 22:19141
use of terphenyl-in-polyvinyltoluene, for monitoring beta and gamma contamination of protective clothing at Hanford laundry facilities, 23:11753 (BNWL-SA-2045)
use of thallium activated sodium iodide, for determining antimatter nature of meteors, 21:34996
use of thallium-activated cesium iodide, for discriminating between deuterons, protons, and tritons, 22:47337
use of thallium-activated sodium iodide and plastic, in anticoincidence for gamma spectroscopy, 22:36085
use of thallium-activated sodium iodide, for determining uranium-235 enrichment in reactor fuel elements, 21:32446
use of thallium-activated sodium iodide, for dosimetry of alpha emitters in lung, 23:4837 (BNWL-SA-1765)
use of thallium-activated sodium iodide, for gamma dosimetry, energy absorption spectrum operator for, 23:4838(T) (NSJ-tr-137)
use of thallium-activated sodium iodide, for gamma detection in β—γ coincidence spectrometer, 22:23317
use of thallium-activated sodium iodide, for γ—γ coincidences and angular correlation measurements, 21:36370
use of thallium-activated sodium iodide, for in vivo plutonium determination, method for predicting background for, 23:7737 (RFP-893)
use of thallium-activated sodium iodide, for measuring continuous spectra of x radiation at 0- to 400-keV, 21:28266
use of thallium-activated sodium iodide, for measuring x-ray spectra from accelerators, 21:35374
use of thallium-activated sodium iodide, for measuring e^-—γ, β—γ, and γ—γ directional correlations, 21:43268
use of thallium-activated sodium iodide, for monitoring column-chromatographic actinide and fission products separations, 23:4823
use of thallium-activated sodium iodide, for surveying plutonium contamination, 21:26156 (UCRL-50007-66-2, pp 1-6)
use of thallium-activated sodium iodide, for well logging, 21:39207
use of thallium-activated sodium iodide, for whole-body counting of gamma sources in man and phantoms, 22:25645
use of thallium-activated sodium iodide, in AAEC whole-body counter, 22:37969 (AAEC/TM-450)
use of thallium-activated sodium iodide, in automatic drum scanning system for plutonium content determination, 23:635
use of thallium-activated sodium iodide, in coincidence spectrometer for positron annihilation radiation, 22:10589
use of thallium-activated sodium iodide, in Compton spectrometers, 22:8380
use of thallium-activated sodium iodide, in determining behavior of complex mixtures of radionuclides in environmental and biological systems, 21:36368
use of thallium-activated sodium iodide, in gamma spectrometer for electron-gamma angular correlation measurements, 23:2633
use of thallium-activated sodium iodide, in gamma-/x-ray scattering facility, 21:19907 (USNRDL-TR-67-14)
use of thallium-activated sodium iodide, in magnetic pair gamma spectrometer, 23:7780
use of thallium-activated sodium iodide, in multimode gamma spectrometer, 23:726
use of thallium-activated sodium iodide, in two-crystal pair gamma spectrometers, 22:10585
use of thallium-activated sodium iodide, with cobalt-57 gamma source for detection of door intrusion, 23:14074
use of thallium-activated sodium iodide, with lithium-drifted germanium detectors in pair and escape-suppressed gamma spectrometer, 23:689
use of whole-body liquid, for pharmacodynamic evaluations, 21:22497
use of zinc sulfide, for measuring radon-222 content in atmosphere, 21:26200
use of, as fast-sum coincidence spectrometer in activation analysis, 21:12304
use of, combined with proportional detector for determination of air radioactivity, 21:12838 (LA-3583)
use of, for measuring gamma background dose rates in Warsaw, 21:10857 (CLOR-50/D)
use of, for measuring VTOL landing and take-off profiles, 21:12593
use of, for monitoring potassium-40 in infants, 21:14636
use of, for proton dosimetry, 21:10913
use of, in aircraft fuel gage system, 21:12595
use of, in automated analysis of thin-layer radiochromatograms, 21:10259
use of, in coincidence with semiconductor detectors, for calibration of uranium-235 standard foils, 21:1303
use of, in determining sulfur-35-labeled cystine incorporation in hair follicles, 21:14567
use of, in helicopter close-order formation keeping system, 21:12591
use of, in personnel dosimetry, 21:10854 (AE-253)
use of, in spacecraft fuel gaging system, 21:12594
use of, in whole body counting of cattle, 21:1648
use of, to determine mercury and silver activity in tooth fillings, following criticality accident, 21:3410
use with absorption filters for gamma spectroscopy in high background, 22:21340
use with beta sources and centrifugal sedimentation apparatus for particle size analysis of powders, 23:22107
use with bromine-82 tracer technique to measure underwater currents in large reservoirs, 23:448
use with β radiation source for inspection of fuel elements, 21:19876(P)
use with cobalt-60 source for detecting silicon dioxide rock in coal beds, 23:436(T) (NSJ-tr-123)
use with emulsion chamber for analysis of core structure of cosmic showers, 23:10961(R) (NP-17704)
use with fast neutron sources for determining moisture content in soils, 21:32496
use with fixed geometry for absolute activity measurements of gamma sources, 21:45410
use with gamma sources for measuring moving angle of repose of raw materials in rotary kilns, 21:28287
use with high-pressure gas targets for detection of slow mesons, 21:45400
use with homogeneity scanner for fuel element radiography, 21:36396
use with image intensifiers for space research, 22:4447
use with iron absorbers and spark chambers for spectroscopy of high-energy particles, 22:21347(T) (AD-666080)
use with mass spectrometer to detect small ion currents, 21:34451
use with periodic integrating counting device for determining blood flow patterns in hearts, 21:28330
use with prismatic light guide for end-window counting of tritium, 21:26181
use with radiation sources for examining various materials, 21:12701(P)
use with radioisotope x-ray sources and various filters for fluorescence analysis, 23:19908 (ORO-3224-14)
use with stereo positron camera to determine distribution of radioactive materials in test body, 21:32301(P)
use with time-to-amplitude converters for analysis of positron lifetime in magnetic fields, 21:10703
use with tracers to determine flow direction of underground waters, (E), 21:32265 (IFA-MR-27)
use with wire spark chambers for detection of quarks, 23:1628
use with xenon-133 for leak testing of metallic containers of semiconductors, 21:30722
uses in deep water isotopic current analyzers, 21:36132
uses of large sodium iodide double-crystal, 22:43027 (LA-DC-9801)
uses of liquid, survey of, 23:50153
vials for liquid, used in counting tritium samples, description of Teflon, 23:38270
vials for, self-cleaning oven for decontamination of, 23:45391
waveform measurements of, method of stabilizing gain and drift of sampling oscilloscopes for, 23:2553 (EUR-3947)

RADIATION DETECTORS, SEMICONDUCTOR
alpha energy resolution of, 21:17873
amplifier and stretcher system for, design of highly stable biased, 23:21984
amplifier circuits without charge leak resistor using pulsed feedback, 24:39316
amplifier for surface-barrier, design of, 25:32231
amplifier for, design of linear, 22:43096
amplifier for, design of nanosecond, 23:13980 (CEA-CONF-1169)
amplifier for, design of transistor, 25:18668
amplifier for, fast pulse, 21:8655
amplifier system for high-resolution, design and performance of high-rate, 23:22076
amplifier systems for, measurement of gain stability and nonlinearity in, 23:21985
amplifier with automatic gain control for, for gamma spectroscopy, 22:47365
amplifiers and preamplifiers for, standard test procedures for, 25:32258
amplifiers for junction, energy resolution of FET, 21:4725 (CLOR-52/D)
amplifiers for, analysis of low-noise charge, 22:49068 (BNL-12798)
amplifiers for, design of charge-sensitive, 21:12708 (N-66-26148)
amplifiers for, design of double delay line, 21:6271
amplifiers for, design of nanosecond pulse, 21:22172
amplifiers for, design of shunt-series nanosecond, 21:17234
amplifiers for, optimization of signal-to-noise ratio in, 21:28204 (CISE-107)
amplifiers for, overload recovery circuit for charge, 24:2440 (BNL-14058)
amplifiers for, pulse shaping in, 22:8344
amplifiers for, reduction of noise in junction FET, 24:39260
amplifiers for, transient response analysis of noise in, 23:21988
background noise of miniature, effects of temperature on, 22:37984 (CONF-670545-, pp 126-36)
background suppression by anticoincidence and pulse-shape discrimination methods, 22:21308 (BNWL-SA-1515)
background suppression for gamma spectrometers, 23:45506 (BNWL-1051(Pt.3), pp 7-13)
background suppression in, use of discrimination and anticoincidence techniques for Compton, 22:40451
background suppression method for detecting low intensity alpha decay branches, 23:21954
ballistic deficit and signal-to-noise ratio of position-sensitive, 22:14808
ballistic deficit in, method for analyzing, 23:21983
beta spectra obtained by, analysis of numerical methods for unfolding, 21:32472
bibliography on, 1963-1967, 22:19094 (EUR-3630)
book: Measurement of Nuclear Radiations by Means of Semiconductor Devices, 22:19130
book: Semiconductor Detectors, 23:24455
book: Semiconductor Detectors of Nuclear Particles and Their Applications, 22:2384
book: Semiconductor Radiation Detector Waveforms, 24:23007
calibration for high precision measurement of relative intensities and internal conversion coefficients, 24:47655
calibration of neutron, gamma-induced conductivity method for, 24:51813
calibration of whole-body, for determining of potassium-40 and potassium-42 in animals, 23:22213
calibration reference source for, design of pulse generator as, 23:26559 (KFK-558)

capacitance variations of, reduction of sensitivity of charge-sensitive preamplifiers to, 21:28225
carrier multiplication in internally amplifying, effects of electron—hole avalanches on, 21:17838
carrier trapping effects on gamma spectrometers using, theory of, 24:9671
characteristics for assessment of radiation dose to skin, 22:37994 (RD/B/N-1107)
characteristics for detection of ionizing radiation, 22:23284
characteristics of, 24:2461
characteristics of, 24:14280
characteristics of ion-implanted, charge carrier depth distribution, 23:26547
characteristics of large-area ion-implanted p-n junctions, 25:18756
characteristics of multiplying, for gamma detection, 25:57748
characteristics of p—n, for electromagnetic radiation and alpha and beta particles, 22:45275 (CEA-Bib-97)
characteristics of, review of, 22:43032
charge carrier trapping and detrapping effects in cadmium telluride, 24:39298
charge carrier trapping in, survey of, 23:22011
charge collection in, contact effects on, 23:22024
charge collection in, method for accurately determining, 23:31528
charge collection process in p—i—n junction, 25:10844
charge collection process in, theory of, 24:50561
charge collection time in, theory for plasma effects on, 23:11785
charge collection-time variations in, theoretical comparison between pulse-area and pulse-height errors from, 22:45298
charge compensation in lithium-drifted, theory of, 24:4439
charge dividing mechanism for one-dimensional position-sensitive, 22:332
charge gain in, from internal transistor action, 23:22029
charge measurements from, analysis of corrections during, 25:37608
charge trapping in, theory of, 25:23762 (AECL-3786)
charge-carrier lifetime and mobility in p—i—n, determination using sine-modulated light, 25:57738
charged particle discrimination by energy—range relations in, 24:50560
charged-particle angular distribution measurements with, design of rotating gas cell for, 21:39238
circuit for measuring and recording pulse shapes and risetimes from, 23:667
circuit for position-sensitive surface-barrier, 24:27372
circuit for position-sensitive surface-barrier, ratio, 25:23780
circuit for, constant base line restorer and overlapping rejection, 25:371 (SRARI-P-67)
circuits for, 22:33689 (ZfK-121, pp 1-133)
circuits for improving signal-to-noise ratio, decoupling, (T), 25:32259
circuits for multicell, low-capacitance, design of, 25:32221(P)
circuits for position-sensitive, analog division, 25:8471 (JUL-CONF-4, pp 11-21)
circuits for reducing pulse pile-up in, filter, 23:24429 (LAL-1211)
circuits for spectroscopy, signal—noise ratio of time-dependent filter, 22:47361(T) (ORNL-tr-1971)
circuits for use in alpha spectroscopy, 21:43251
circuits for, developments of amplitude discriminating and time analyzing, 21:30704(T) (NP-tr-1552)
circuits for, sampling techniques for statistical analysis of pulses from, 23:21989
circuits for, signal amplification in, 23:21995
circuits for, transistorized fast coincidence, 23:41025
coincidence circuit for, design and performance of fast, 25:37592
coincidence circuits for particle—gamma correlation measurements, 24:33873
coincidence circuits for, description of, 23:43568
coincidence circuits for, time-to-amplitude converter for, 22:51225
collimators for, used in gamma camera, design of aperture-indexed, 23:17762
conference on, 23:22003
conference on, 24:39279
conference on, 22:40429
conference on, for radiation protection and measurement techniques, 22:37975 (CONF-670545)
contacts in, analysis of depth concentration of electrically active centers in ion-implanted, 24:5884 (EUR-4269, pp 177-92)
contamination of surface-barrier, in alpha spectroscopy, sources and prevention of recoil, 25:2479
cooling of, design of simple cryostat for, 21:356
cooling system for scattering chamber, 25:36634
current and voltage characteristics of thin, measurement of, 23:6288
current and voltage pulses from, calculation of waveforms of, 21:43261
current control device for, development of electronic, 21:8581 (KFK-426)
current leakage and noises in, 21:16184
current pulses from, calculation and measurement of waveforms of, 22:43069
data acquisition system for array of, providing high event rates, design of computer-based, 23:40994 (EUR-4289, pp 269-76)
data acquisition system interface for, design of multianalyzer stored program, 22:30822 (ORNL-TM-2153)
data analysis system for telescope, for on-line particle identification using table look-up method, 25:15905
data analysis system for telescopes of, 21:45402
data from, computer program for automatic analysis of, 23:13987 (IS-1986)
data from, development of computer-based system for evaluation of, 22:12569(R) (ANL-7311)
data from, photopeak method for computer analysis of gamma spectra, 23:43570
data processing systems for x-ray spectroscopy, development of, 25:39702 (CONF-710420-1)
depletion region of surface-barrier, guard rings for increasing, 21:17836
description and operating parameters of photoelectronic, 21:24201
description and use for x-ray spectroscopy, 24:39334
description and uses of junction-type, 22:45309
description for tracer measurement of blood flow distribution in kidneys of dogs, 23:29184
description of alpha particle, for monitoring airborne plutonium-239, 21:26161 (UCRL-50228)
description of cadmium telluride, for aerospace nucleonics, 24:39246
description of lithium-6 sandwich, for neutron spectroscopy in high gamma field, 25:39732
description of p—i—n junction, for dosimetry, 24:27449
description of satellite-borne telescope, 25:23810
description of surface-barrier, for 500-eV to 10-keV x rays, 25:23801
description of telescope, for detection of recoil nuclei from proton reactions with light at high energies, 25:37644
description of telescope, for fast neutron spectroscopy by proton recoil, 24:33920
description of, incorporating crystalline structure having photo-electromagnetic effect, 23:7763(P)
design and operation of, 23:38317
design and operation of pair of, for low-energy gamma and x-ray dosimetry, 25:44703
design and performance for alpha spectroscopy, 23:33484
design and performance for fuel distribution and fission product migration studies by gamma spectroscopy, 23:47813
design and performance for neutron cross section measurements using underground nuclear explosions, 22:47320 (LA-DC-9709)
design and performance for time-of-flight particle identification, 21:19939
design and performance of, 23:24421 (CEA-CONF-1233)
design and performance of, 22:28113
design and performance of associated-particle time-of-flight, using position-sensitive detectors for neutron detection, 25:44660
design and performance of boron-doped silicon carbide, 22:33646
design and performance of cadmium sulfide, for measuring high-level gamma exposure rates, 22:47321 (RD/B/N-1108)
design and performance of coincidence system for measurement of x-ray-to-alpha ratios in alpha decay of transuranic elements, 25:8465 (BNWL-SA-1514)
design and performance of lithium-6-sandwiched, for neutron spectroscopy, 23:26564
design and performance of lithium-6-sandwiched, for neutron spectra measurements in reactors, 22:36055
design and performance of neutron-sensitive, which permits observation of form of current pulses produced, 21:10643
design and performance of position-sensitive, for use in Saclay Buechner alpha spectrometer, 23:14023 (CEA-CONF-1228)
design and performance of system of scintillation detectors and, for electron—gamma angular correlation measurements, 23:16124
design and performance of telescope, for beta spectroscopy, 25:10852 (NP-18617)
design and performance of telescope, for photonuclear reaction studies, 25:18675
design and performance of telescope, for studying (n,α) reactions at 14 MeV, 24:29560
design and performance of, book on, 21:1618
design and performance of, for neutron dosimetry, 21:8796 (ORNL-4007, pp 171-210)
design and performance of, review on, 21:39222
design and performance using boron-10, lithium-6, and uranium-235 converters, for in-core neutron flux measurements, 22:40357 (CEA-R-3304)
design and technology of, 21:41234
design and use for analyziing x-ray fluorescence, 22:310 (ORNL-IIC-10(Vol.2), pp 817-4)
design and use of catheter-type, 23:9712
design and uses of cadmium sulfide, for radiotherapy dosimetry, 22:6661
design based on Geiger—Mueller principle, 22:37983 (CONF-670545-, pp 109-15)
design for alpha detection during monitoring of surface contamination, 22:8342
design for alpha monitoring, engineering drawings for, 21:3307
design for alpha spectroscopy, 22:8342
design for Ames Research Reactor, 21:42813 (IS-1600, Paper 7)
design for continuous air monitoring for plutonium-239, engineering drawings for, 22:30843
design for detection of charged particles, 21:30727(P)
design for determining dose rate of pulsed radiation, 24:7632(P)
design for E—ΔE measurements of charged particles, based on two superposed detectors in common semiconductor body, 23:35475(P)
design for electron detection aboard OGO-F satellites, 22:40411
design for electron measurements on OGO-F satellite, 22:36033 (N-68-22703)
design for high-resolution spectroscopy, optimization of, 22:38068 (JINR-P13-3812)
design for ions, 22:12592(P)
design for low-level activity measurements of beta and gamma sources, 23:43516 (CONF-681063-, Paper 2.4)
design for measuring x-ray exposure times, 25:21385 (BRH/DEP-71-2)
design for neutron detection during scanning outside of chromatographic column, 23:16110(P)
design for quantitative determination of chemically active materials, 25:39772(P)
design for rocket-borne dE/dx—E telescope for particle identification in primary cosmic radiation and Van Allen radiation belts, 23:26537
design for thermal neutron flux measurements, 22:8342
design for use with proportional detectors for detection of charged particles produced in neutron reactions at 14 MeV, 23:26510 (CEA-R-3624)
design for x-ray spectroscopy, 23:16141(P)
design modification of position-pensitive array of surface-barrier, for magnetic spectrograph, 25:34861 (AERE-R-6776)
design of antimony trisulfide, for dosimetry, 25:26529
design of Apollo-borne telescope for detection of solar flare protons and alpha particles, 24:9653
design of cadmium selenide or cadmium sulfide, for neutron fluence measurements based on delayed electric conductivity change, 25:57758(P)
design of cryogenically-cooled, for well logging, 24:19087(P)
design of dE/dx, for particle identification, 23:653
design of ΔE telescope, for identification of charged particles, 24:29518
design of gamma camera consisting of array of, 23:33464
design of high-resolution of large-volume, 22:338(P)
design of intravenous, for blood flow studies using radioisotopes, 25:57760(P)
design of lithium drifted, for diagnosis of malignant tumors, 24:39525(T) (NP-tr-1903)
design of metal-insulator-semiconductor, for infrared radiation, 24:41683(P)
design of modular array of, 23:19957(P)
design of multicell, low-capacitance, for increased signal response, 25:32221(P)
design of one- and two-dimensional position-sensitive, 22:40394
design of oriented diamond-structured crystal, 24:14271(P)
design of p—i—n, 25:32218(P)
design of p—n junction, 23:38279(P)
design of p—n junction, 23:38280(P)
design of p-i-n, for linac electron and x-ray beam dosimetry, 25:48934
design of portable, for low-energy radiation, 22:38015(P)
design of position-sensitive, 24:5914(P)
design of position-sensitive, 24:16870(P)
design of position-sensitive, 25:409(P)
design of position-sensitive, using risetime measurement, 22:47351
design of refrigerated, for condensible radioactive gases, 25:23824(P)
design of selenium—bismuth alloy layered, for human oviducts in vitro, 21:16464
design of surface-barrier, for proton—deuteron discrimination, 22:2358
design of surface-barrier, for x rays and atomic particles, 25:55007(P)
design of telescope surface-barrier, for proton-recoil neutron spectroscopy, 25:39741(P)
design of telescope, used with hydrogen-rich foil for proton-recoil neutron spectroscopy, 25:42134(P)
design of thick lithium-compensated, 23:2577(P)
design of total absorption nuclear cascade, for detection of high-energy particles, 22:38040
design of two dimension position-sensitive, 22:38061 (CONF-670545-, pp 116-25)
design of wafered telescope, 25:21409(P)
design of x, with high voltage photoelectromotive force, 21:1605
design of zinc oxide, for atomic hydrogen beams, 22:2357
design of, using superconducting resonant cavity, 25:14228
design using MOS transistors, 21:45332 (AD-629709)
design with internal amplification, 23:33701(R) (AECL-3284)
design, operation, and performance of, review on, 23:43563
design, operation, and uses of, 21:12645(T) (AD-643601)
detection mechanism in junction-type, (T), 22:30844
development and operation of, 25:18694
development and operation of cadmium sulfide, using cumulative photodielectric effect in ac mode, 24:31710
development and performance, 21:4710
development and performance, 21:6228
development and research on, 25:29333
development and use for fast neutron spectrum analysis, 21:6201 (RT/FI-(66)17)
development and use for measuring fission rates, 21:6201 (RT/FI-(66)17)
development and use for x-ray spectroscopy, review on, 24:39340
development and use in high-energy physics, review on, 25:18775 (UCRL-20042)
development and uses of, 25:55000 (NP-19008)
development and uses of avalanche, 25:4323 (NYO-4028-TA-1)
development and uses of avalanche, review of, 24:11775
development and uses of avalanche-type, 22:45281(R) (NYO-3246-TA-3)
development and uses of, review on, 22:16878
development and uses of, review on, 25:400
development at Bonn, Jan. 1 to Dec. 31, 1966, 22:48509(R) (BMwF-FBK-68-22)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development at Ispra, 23:24458 (EUR-3940-1, pp 129-58)
development for α detection in fuel reprocessing, 24:36340 (CEA-N-1241, pp 255-89)
development for beta, heavy charged-particle, and gamma spectroscopy, review of, 22:28136

development for β dosimetry, 22:17050(R) (EUR-3606)
development for determining uranium dust content in atmosphere, 22:14817
development for gamma detection, 22:6558 (CONF-660663-, pp 3-26)
development for gamma dosimetry, 25:11074(R) (AECL-3777)
development for high precision nuclear spectroscopy, at Karlsruhe, 23:6305 (KFK-778)
development for in-core neutron flux measurements, 24:44258
development for in-pile neutron flux measurements, 23:26509 (BMwF-FBK-69-6)
development for monitoring selected fission fragments in reactor cores, 25:18651(P)
development for neutron dosimetry, 22:38098 (CONF-670545-, pp 200-16)
development for neutron fluence measurements using self-activation, 24:11811
development for nuclear physics research, 22:14763
development for nuclear structure studies, 24:517
development for use as dosimeters, 22:2502 (AECL-2665)
development for use in gamma spectrometers, 21:32325 (CONF-661203)
development for x ray detection, 25:48950 (AD-718142)
development in Italy, 24:9660
development in Japan, 22:4441
development of, 22:47332
development of arrays of avalanche-type, 22:40389
development of avalanche, 25:57747
development of avalanche type, 24:31680(R) (NYO-3246-TA-6)
development of avalanche-type, 22:19097(R) (NYO-3246-TA-1)
development of avalanche-type, 23:45512(R) (NYO-3246-TA-5)
development of avalanche-type, 23:19935(R) (NYO-3246-TA-4)
development of avalanche-type gallium arsenide, for alpha particles and chopped light beams, 25:48958
development of avalanche-type, for low-level radiation, 22:33636 (AERE-M-2025)
development of avalanche-type, for x-ray fluorescence analysis, 22:45280 (NYO-3246-TA-2)
development of avalanche-type, obtained through surface contouring, 21:16143(R) (NYO-3246-9)
development of cadmium telluride, 23:19944
development of cadmium telluride surface-barrier, for gamma and x-ray spectroscopy, 25:44669(R) (SAN-549-7)
development of cadmium telluride, for gamma spectroscopy, 25:18733 (CEA-R-4052)
development of cadmium telluride, for gamma spectroscopy, 22:23278
development of cadmium telluride, for gamma spectroscopy, 24:50552(R) (SAN-549-6)
development of catheter, for in vivo β dosimetry, 24:12193
development of contoured avalanche-type, 22:38032
development of ΔE—E telescope, for studying 14-MeV neutron reactions with nuclei, 22:23263 (CEA-R-3378)
development of gallium arsenide and gallium phosphide, for gamma detection at room temperatures, 22:38036
development of high electric field, by surface contouring effect, 21:32325 (CONF-661203)
development of high Z, for gamma detection at elevated temperatures, 22:38027
development of high-rate time-of-flight, for detection of heavy charged particles produced in nuclear reactions, 25:42066
development of lead iodide, 25:34889
development of lithium-drifted, 23:10936(R) (COO-535-591)
development of photo-, review of, 22:33642
development of position-indicating, 21:10006(R) (ORO-2843-11)
development of position-sensitive, 22:1598(R) (COO-1265-49)
development of position-sensitive, for detecting charged particles, 22:23260 (CEA-Bib-102)
development of safety system for BNL 200-MeV linac, 25:50468
development of surface-barrier, 21:35437(R) (EANDC(E)-76(U))
development of surface-barrier cadmium telluride, for gamma spectroscopy, 22:28139
development of surface-barrier cadmium telluride, for gamma spectroscopy, 24:29543(R) (SAN-549-5)
development of surface-barrier, for monitoring radon in exposure chamber, 24:25256(R) (BNWL-1307(Pt.3))
development of surface-contoured, for plutonium determination in wounds, 24:25256(R) (BNWL-1307(Pt.3))
development of surface-contoured, for plutonium wound counting, 22:47314 (BNWL-715(Pt.1), pp 41-3)
development of, for reactor core neutron flux monitoring, 21:23659
development of, review of, 22:43043
development of, review on, 25:26461
development, review, 22:14762
developments in, 25:57793
discriminator for, design of fast time marking, 23:40989 (EUR-4289, pp 137-9)
efficiencies of, compared with scintillation detectors, 24:68
efficiency and resolution for gamma spectroscopy, 23:50192
efficiency and response for gamma detection, calculation and measurement of, 23:43560
efficiency and response of, effects on spectra during cross section measurements in scattering chambers, 23:16123
efficiency calculations for lithium-6 sandwich, for neutron spectroscopy, 25:2473 (AERE-R-6318)
efficiency corrections for nuclear reactions of 5- to 150-MeV protons, 23:10928 (UCLA-10-P-18-10)
efficiency for alpha spectroscopy, 22:38059 (CONF-670545-, pp 69-72)
efficiency of, 23:22022
efficiency of cadmium telluride, for gamma detection, 24:44262
efficiency of helium-3-sandwiched, for neutron spectroscopy, 23:2631 (JUL-522-RG)
efficiency of high atomic number, for military and space applications, 21:32465
efficiency of lithium-6-sandwiched, for coincidence measurements, calculation of geometric, 23:43564 (BLG-428)
efficiency of lithium-6-sandwiched, for directional neutron spectroscopy, calculation of geometrical, 22:21342
efficiency of surface-barrier cadmium telluride, for gamma spectroscopy, 22:40452
electronic equipment for use with, 21:39205
energy and time resolution for spectroscopy, 24:19198 (FMRB-15/69)
energy resolution of, effects of gold entrance windows on, 21:17873
energy resolution of, signal-to-noise ratio of time-dependent filters for improving, 22:25655
energy resolution of, theoretical limits of, 22:37979 (CONF-670545-, pp 57-61)
energy-loss mechanisms in, model for, 25:15910
evaluation of cadmium telluride, 22:6560 (CONF-660663-, pp 37-52)
fabrication and evaluation of gallium arsenide, for gamma transient detection, 21:17820(R) (UCRL-13272)
fabrication and properties of p-n, for operation in severe environment, 21:32468
fabrication and testing of indium antimonide and lead oxide, for nuclear particle spectroscopy, 25:57807
fabrication and testing of n-gallium arsenide, for room temperature nuclear spectroscopy, 25:44675
fabrication and testing of, conference on, 25:57734
fabrication for detection of x radiation, 23:33413(P)
fabrication of Ames Research Reactor, 21:42813 (IS-1600, Paper 7)
fabrication of cadmium telluride, 24:39300
fabrication of charged-particle, by ion implantation, 25:45912 (CEA-N-1390, pp 91-137)
fabrication of doped, 22:33640(P)
fabrication of E and dE/dx, by ion implantation, 23:43526
fabrication of high voltage, using shelf structure, 22:23304(P)
fabrication of ion-implanted, lattice disorders and electrical effects in, 23:17759
fabrication of large-volume well-type drifted, method for, 25:23842(P)
fabrication of lithium-doped, method and equipment for, 22:28124(P)
fabrication of lithium-drifted, automatic control of drifting process for, 25:21396
fabrication of lithium-drifted, method for, 23:2578(P)
fabrication of n-p junction indium antimonide diodes, using proton bombardment, 24:27369
fabrication of p—n junction, 23:38282(P)
fabrication of position-sensitive, by ion implantation in silicon, 25:19835
fabrication of position-sensitive, ion implantation techniques for, 22:40388
fabrication of surface barrier, experiences and problems in industrial, 24:5881 (EUR-4269, pp 133-6)
fabrication of surface-barrier cadmium telluride, for detection of gamma radiation, 22:40390
fabrication of surface-barrier, for detection of gamma and x radiation, 25:23781(P)
fabrication of well-type, 25:34882(P)
fabrication of, design of masking machine for, 24:46387 (BARC-483)
fabrication of, developments at MIT in, 24:19201 (MIT-952-6, pp 164-84)
fabrication of, methods development for, 22:37340(R) (EANDC(E)-89(U))
fabrication of, technological aspects of industrial, 21:39221
fabrication of, use of ion implantation techniques for, 22:38042
Fano factor for, problems in measurement of, 23:22008
filter for, description of time-variant, 23:22072
filter for, design using double-diode circuit, 23:21992
filter for, optimum, 23:21991
filter for, signal-to-noise ratio of gated, 23:21987
filters for time analysis with, design and performance of time-variant, 23:11774
gain uniformity in avalanche-type, 23:19935(R) (NYO-3246-TA-4)
gain uniformity of avalanche-type, 22:45281(R) (NYO-3246-TA-3)
gamma response function for Compton diode, (T), 21:46643(R) (ORNL-4134)
gating system for, design of high-resolution, 23:22075
geometrical attenuation factors for cylindrical, for angular correlation measurements, 24:11797
instrumentation associated with, review of, 21:32418
instruments for, design and performance of, 21:1671 (EUR-3063.e)
intrinsic region thickness of, method for measuring, 24:27380
ion drifting techniques for, 23:7766(P)
ion implantation in, kinetics of, 23:22025
ionization energy in, for α and β particles, 23:22005
ionization energy in, problems in measurements of, 23:22008
ionization energy of, determination of, 22:37998 (UCRL-17989, pp 261-95)
lifetime of boron (n,α) conversion layers for neutron detection, method for increasing, 24:29534
materials for gamma detection, 22:6557 (CONF-660663)
neutron flux measurements in research reactors by, methods for, 22:12110
neutron ionization in, pulsed 14-MeV neutron generator for measuring, 22:39564
noise analysis for gamma spectroscopy, 25:37624 (CEA-R-4038)
noise in, description of surface, 23:22014
noise of surface-barrier, correlation and Fourier transform spectral analysis of, 23:11775
operating characteristics of amplifying, 21:17814 (AECL-2637)
operating characteristics of amplifying, analysis of electron avalanche, 22:21326
operation and performance for reactor neutron detection and measurement, 23:38246 (KAPL-M-6961)
operation and performance in current mode, 25:37583 (UCRL-51011)
operation and performance of, 24:48288
operation and performance of ΔE-E, 24:29521
operation and use of junction, for dosimetry, 24:27352
operation and use of, review of, 23:22050
operation and uses, 23:41065
operation and uses of, operating in current mode, 23:22039
operation as analog of G—M and proportional detectors, 22:37977 (CONF-670545-, pp 17-35)
operation for gamma spectroscopy, 22:2410
operation in E—ΔE configuration for discrimination of charged particles at 5 to 15 MeV, 22:38010
operation mechanism in junction-type, 22:2363
operation of high voltage, using shelf structure, 22:23304(P)
operation of p-n junction, with internal amplification, 23:47763
operation of surface-barrier avalanche, 25:4322 (NP-18433)
operation of telescope, for identification of A = 4 to 20 particles, 25:10829
operation of, review on theory of, 24:11761 (BARC-438)
operation of, theory of, 25:23778 (UCRL-73001)
operation with scintillation detector for α—γ coincidence measurements, 23:40610 (CEA-N-1044, pp 331-80)
operational principles and physical properties of, 22:37976 (CONF-670545-, pp 7-16)
oxidation effects on surface-barrier, 21:17828
performance and use for alpha and beta spectroscopy, 24:25292 (CEA-N-1158)
performance and use for detection and measurement of cosmic radiation, 24:16853
performance for charged particle identification, recent advances in, 23:21981
performance for detection of x radiation, 24:5869 (AD-692890)
performance for dosimetry of charged particles and high-energy protons, 25:16188
performance for dosimetry of fast neutrons, 22:17050(R) (EUR-3606)
performance for dosimetry of meson beams in tissues, 24:34319 (UCRL-19420, pp 82-92)
performance for electron detection in high gamma background, 22:45301
performance for high-resolution spectroscopy, calculation of amplifier fluctuation effects on, 22:38069 (JINR-P13-3813)
performance for measurements of activity of cyclotron-produced He ions and protons, 25:16042
performance for monitoring of krypton-85, 21:16142 (NYO-841-5)
performance for neutron dosimetry, using sandwiched polyethylene—aluminum radiator, 25:18798 (KFKI-70-29-HP)
performance for neutron yield measurements, (E), 21:1582
performance for particle identification, 21:36348 (UCRL-17555)
performance for personnel monitoring of alpha particles for measuring exposure to inhaled radon daughter products, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
performance for radiation source displacement analysis, 23:19969
performance for spectroscopy in x-ray fluorescence analysis with radioisotope sources, 24:44297
performance for use in biological and environmental studies, 23:13669 (BNWL-715(Pt.2), pp 1-149)
performance for x-ray spectroscopy, using pulsed-light feedback preamplifier, 25:2462
performance in broad-range magnetic spectrometers, 21:32406
performance in gamma spectrometric determination of plutonium in plutonium nitrate, 25:6519 (IN-1433)
performance in measuring α activity of natural environment samples, 22:2211
performance in radiation dosimetry, book on, 21:17901
performance in two-counter telescope for identification of ions with Z < or = 8, 23:47755
performance of, 24:26571
performance of avalanche-type, with tunnel diode for gamma detection at high temperatures, 22:38031
performance of cadmium sulfide, for high-energy electrons and gamma radiation, 25:39721
performance of cadmium sulfide, for measuring large in-core gamma dose rates, 24:25282
performance of cadmium telluride, 24:39300
performance of catheter-type, for pulmonary function studies, 25:51862
performance of catheter-type, for pulmonary function studies, 25:375
performance of cooled surface-barrier, 25:17774 (NP-18623)
performance of indium antimonide, 24:50554
performance of indium antimonide, at liquid nitrogen temperature, 24:48276
performance of lithium-6-sandwich, for fast neutron spectroscopy and dosimetry, 23:38307
performance of lithium-6-sandwich, for neutron spectroscopy at 1 to 100 keV, 24:33926

performance of lithium-drifted germanium, compared with thallium-activated sodium iodide, 24:67
performance of lithium-drifted germanium, in studies of nuclear explosion-induced atmospheric Compton buildup, 24:39094(R) (AD-703320)
performance of p-i-n, effects of charge trapping on, 25:403
performance of p-i-n, for radiodiagnosis of malignant tumors in digestive organs, 22:45288
performance of probe type, for measuring beta emission from tracer doses of phosphorus-32, 25:58064
performance of surface-barrier cadmium telluride, for gamma spectroscopy, 24:39344
performance of surface-barrier cadmium telluride, for alpha spectroscopy, 22:21343
performance of surface-barrier cadmium telluride, for gamma spectroscopy, 24:39324
performance of surface-barrier, for α spectroscopy, 25:6321 (CEA-N-1341, pp 437-88)
performance of surface-barrier, for dosimetry of flat circular polonium-210 α source in biological material, 25:42436
performance of surface-barrier, for dosimetry of polonium-210 alpha particles, 24:50636
performance of surface-contoured diode, for measuring tritium distribution in targets, 23:46860 (BNWL-1051(Pt.3), pp 28-30)
performance of telescope, for detecting nuclei from proton scattering on light nuclei, 25:31185 (LYCEN-7085)
performance of telescope, with thin radiator for proton-recoil neutron spectroscopy, 25:2480
performance of, basic limitations on, 23:22004
performance of, survey on temperature effects on, 24:39291
performance parameters of, use of alpha sources for determining, 21:14465
performance with hydrogenous radiator for fast neutron dosimetry, 24:33907
plasma effects in, 21:24207
plasma effects in, 23:22009
plasma effects in, model of diffusion in, 25:6550
plasma effects on charge collection time in, theory for, 23:11785
plasma state in track of nuclear particle in, study of pulse height in magnetic field for determining, 25:44600
plasma time in, 22:40404
plasma time in, 23:29189
polarization of, effects of irradiation on, 21:306
positioning of, development of system for remote, 23:1929(R) (COO-1265-67)
power supply for, BARC model 228 bias, 24:19194 (BARC-452)
power supply for, design of high-voltage, 22:36056
preamplifier circuit for, parametric charge, 24:2465(P)
preamplifier for simultaneous high energy resolution and time measurement with, charge-sensitive, 24:39259
preamplifier for surface-barrier, for neutron collimation, current, 25:8519
preamplifier for timing signals from, development of, 23:16098
preamplifier for use in high-resolution x-ray spectroscopy, design and performance of opto-electronic feedback, 23:33487
preamplifier for, description of germanium FET low-noise, 22:37998 (UCRL-17989, pp 261-95)
preamplifier for, design and performance of, 22:33689 (ZfK-121, pp 1-133)
preamplifier for, design and performance of high-resolution FET, 23:22000
preamplifier for, design and performance of high-resolution voltage-sensitive cooled, 25:34910
preamplifier for, design and performance of low-noise charge-sensitive, 23:11765
preamplifier for, design and performance of nuvistor, 22:51220 (IAE-1453)
preamplifier for, design of, 25:29340
preamplifier for, design of, 25:29343
preamplifier for, design of FET low noise, 21:3303
preamplifier for, design of low input-impedance, 21:39230
preamplifier for, design of low-noise, 22:37971 (AI-AEC-Memo-12706)
preamplifier for, design of low-noise current sensitive, 23:21994
preamplifier for, design of low-noise wide-band current, 23:21993
preamplifier for, development of optoelectronic feedback, 25:6538 (UCRL-19530, pp 329-39)
preamplifier for, effects of frequency and temperature on FET transistor noise in charge-sensitive, 23:21997
preamplifier for, noise sources in FET transistors and MOS semiconductors for charge-sensitive, 23:21998
preamplifier for, resolution and stability of low-noise, 23:13990 (RT/EL-(68)4, Paper 2)
preamplifier with input cathode follower for, low-noise, 25:48907
preamplifiers for p-i-n, description of, 22:10551
preamplifiers for, application of pulsed-charge feedback to charge-sensitive, 25:57812
preamplifiers for, description of charge sensitive, 21:12706 (INR-682/I-A/PL)
preamplifiers for, description of charge sensitive, 21:26204
preamplifiers for, design and performance of broadband current, 25:23839 (ORNL-TM-3252)
preamplifiers for, design and performance of low-noise transistorized, 24:27360
preamplifiers for, design of charge-sensitive, 23:33408
preamplifiers for, design of low-noise wide-band current, 21:28210 (ORNL-P-3064)
preamplifiers for, low-noise charge-sensitive, 21:8630 (MIT-952-3, pp 349-402)
preamplifiers for, noise mechanisms in FET, 21:36352 (UCRL-17559)
preamplifiers for, noise performance of, 23:21996
preamplifiers for, opto-electronic feedback system for, 24:39258
preamplifiers for, use of current-sensitive, 21:43260
preamplifiers for, use of pulse transformer for improving response of, 22:14749 (KFK-617)
preamplifiers for, used in gamma and x-ray spectroscopy, design and performance of FET, 23:41034 (EUR-4289, pp 21-34)
preparation and properties of lead telluride and cadmium telluride, for spectroscopy, 23:40983 (CEA-R-3829)
preparation of diffused n—i—p junction, 24:25268(P)
preparation of gallium arsenide surface-barrier, 21:1586
preparation of lithium-drifted, 21:14473(R) (N-67-10874)
preparation of surface-barrier, 24:50563
preparation of surface-barrier, by sputtering, 25:23790
preparation of, using ion implantation, 25:5506 (CEA-N-1232, pp 81-159)
properties and principles of, 23:2574
properties of cadmium telluride, for alpha, gamma, and neutron detection, 24:44264
properties of homogeneous and junction, 22:10575 (CEA-Bib-110)
properties of indium antimonide, for γ radiation detection, 23:22001
properties of merocyanine dyes and phthalocyanine organic, 25:23788
properties of surface-barrier, in comparison to drifted detectors, 22:37985 (CONF-20545-, pp 137-44)
properties of surface-barrier, in in-core thermal neutron flux density measurements, 25:15890
properties of surface-barrier, rectifying, 24:27373
properties of various types of, 21:32418
protection of, design of high voltage divider and current leakage monitor for, 22:36072
pulse amplitude spectra in, principle of formation of, 25:34911
pulse amplitudes in, use for determining range of charged particles, 22:25634
pulse analyzers for use with, design of analog-to-digital converters for 8192-channel, 22:43026 (JINR-P13-3911)
pulse compensation for improvement of signal-to-noise ratio for spectroscopy, 25:6556
pulse converter for p-i-n, design and performance of time-to-pulse height, 24:46465 (CEA-N-1334)
pulse discrimination circuits for Compton suppression for gamma spectroscopy, 23:45507 (BNWL-1051(Pt.3), pp 13-17)
pulse discrimination method for alpha and proton discrimination, 24:16855
pulse divider circuit for position-sensitive, 23:43547
pulse divider circuits for position-sensitive, development of, 23:1929(R) (COO-1265-67)
pulse duration shortening in, design and performance of iterative passive filters for, 23:29178
pulse extraction from, circuit design for fast, 21:6258
pulse height analyzer for satellite-borne, design of multichannel, 23:26543
pulse height spectra from, use of digital computers for correcting, 21:274 (JINR-P-2851)
pulse height spectrum in, computer program for calculation of monoenergetic gamma, 25:34907
pulse integrator for, design and performance of gated, 24:36573
pulse shape determination in, energy balance method for, 24:33874
pulse shape discrimination method for identification of protons and alpha particles, 24:11778
pulse shape discrimination methods for neutron spectroscopy, 24:16876
pulse shaper for, design of, 23:21994
pulse shaper for, low-noise double delay line, 25:29366
pulse shapers for, theoretical analysis of signal-to-noise ratio optimization in presence of noise and pileup in, 23:21990
pulse shapes from, averaging techniques for measurement of bias and radiation effects on current, 25:57737
pulse shapes from, calculation of current, 23:7746
pulse shapes in surface-barrier, 22:2355
pulse stretchers for spectrometers of, design of, 22:43095
pulse time measurements of, time-to-amplitude converter for, 22:51225
pulse timing circuits for surface-barrier, for coincidence measurements, performance of crossover and leading edge, 23:22058
pulse-height analysis of, convolution method for, 24:29544
pulse-shaping system for, using switched time constants and gated integrators, 23:22071
pulses from, electronic processing of, 22:37978 (CONF-670545, pp 36-56)
pulses from, generator for simulating nanosecond charge, 25:44738
pulses from, method of wave form analysis of, 21:26162
pulses in high-energy stopping counter, method for eliminating, 23:10928 (UCLA-10-P-18-10)
radiation damage in, 22:16877
radiation damage to surface-barrier, during in-core neutron flux monitoring, 25:13329
radiation damage to surface-barrier, fission fragment, 23:22144
radiation effects on avalanche, gamma, 23:45601 (BNWL-1051(Pt.3), pp 25-7)
radiation effects on charge carrier collection of p-n type, alpha, 21:6366 (AD-633774)
radiation effects on MOS, 22:33707
radiation effects on surface-barrier, radioisotope power source, 24:31765(R) (N-70-14572)
radiation effects on, gamma, 22:47441 (BNWL-715(Pt.1), pp 15-20)
radiation effects onboard spacecraft from radioisotope thermoelectric generator, 24:46557
radiation testing for pressurized-water reactor of, 21:46937 (BAW-3647-5)
reaction kinetics data for lithium-6-sandwiched, based on (n,t) reaction, 23:43564 (BLG-428)
rectifying process in metal—semiconductor surface-barrier, review of, 25:57741
resolution capabilities for particles at 10 to 100 MeV, 22:37998 (UCRL-17989, pp 261-95)
resolution for gamma spectroscopy, effects of noise, trapping, and recombination of carriers on, 21:32459
resolution for nuclear spectroscopy, time-dependent filter for improving, 22:33660
resolution for x-ray spectroscopy, 23:29145 (AD-683706)
resolution of gallium-arsenide, for alpha particles and gamma rays, 25:8491
resolution of lithium-6-sandwiched surface-barrier, for neutron spectroscopy, (E/T), 23:43564 (BLG-428)
resolution of surface-barrier cadmium sulfide, effects of material inhomogeneities on, 24:36589
resolution of surface-barrier, for 12-MeV protons, 22:32513(R) (ANU-P-400)
resolution of, effects of carrier capture on, 22:40395
resolution of, theoretical and practical limits to, 22:49092
resolving time in coincidence measurements with, use of energy—time correlation for improving, 21:32475
response analysis for solar flare proton and alpha particles, (E), 25:4928
response characteristics of photo-, method for measuring frequency, 21:3274
response for electron and gamma absorbed dose measurements in comparison to calorimetric dosimeters, 23:50180
response functions for studying formation of amplitude spectra in, 25:34911
response of cadmium telluride and gallium arsenide, for gamma detection at elevated temperatures, 22:38030
response of cadmium telluride, for alpha detection under conditions of trapping and detrapping, transient, 22:40391
response of cadmium telluride, for gamma detection between - 100 and + 100°C, 23:17771
response of lithium-6 sandwich, to tritons from neutron reactions (n,t) with lithium-6 for determining fast neutron spectra, 23:2629 (AERE-M-2009)
response of position-sensitive surface-barrier, to fission fragments and heavy-ions, 24:33871
response time in, plasma, 23:29189
response to cobalt-60 gamma-rays and electrons up to 60 MeV, 22:375(R) (NYO-3510-3)
response to fission fragments, 21:22101 (BMwF-FBK-67-02)
rise time for, review of experiments on, 21:17832
sample changers for alpha spectroscopy, design of automatic, 23:22059
semiconducting elements and compounds for use as, physical properties of, 21:34472 (ORNL-4091, pp 38-48)
sensitivity for x-ray detection and radiography, 25:57766
sensitivity of cadmium telluride, for gamma detection, 23:645
sensitivity of Compton diode, effects of energy on, 22:25633 (UCID-15318)
sensitivity of PIN, effects of energy on gamma, 22:25633 (UCID-15318)
sensitivity of, effects of energy, temperature, and voltage on gamma, 21:17814 (AECL-2637)
signal loss in p—i—n, energy-scale correction method for charged-particle, 23:29191
signal processing for, description of, 23:22073
signal-to-noise ratio in, use of tapped delay lines for improving, 22:25657
signals from, spontaneous fluctuations in output, 21:34471 (NP-16827)
space charge in, extension of Ramo's theorem to fixed, 25:18710
spectra from, systematic peak reduction method for, 25:48951 (ARH-1877)
stabilization of avalanche-type, control system for, 23:43540
stabilization of gamma spectrometers of, device for, 21:19906 (UJV-1729)
stabilization of, for gamma spectroscopy, 21:43223 (CEA-R-3178)
stabilization system for, for gamma spectroscopy, 22:23309 (CEA-R-3300)
summing effects in spectrometers of, error compensation system for random, 23:26568
test procedures for, standard, 25:32257
testing of neutron, for use in reactor core, 24:33184
theory and uses of, 24:50573
time characteristics of surface-barrier, fission fragment degradation of, 23:17859
timing cicuits for low-energy alpha particle coincidence measurements, analog—digital fast, 25:49059
timing properties for subnanosecond half-life measurements, 25:26491 (INR-1213)
use for absolute dosimetry, 22:14864
use for control of bubble-chamber photography, 25:34969 (CONF-700623-(Vol.2), pp 606-16)
use for determining energy distribution of charged particles, 21:3302
use for determining radioisotope concentrations in environmental and biological materials, 23:619
use for deuteron—proton discrimination, 21:17865
use for discriminating between deuterons, protons, and tritons, 22:47337
use for fast neutron dosimetry, 21:43282
use for gamma spectroscopy for studying decay schemes of isotopes, data processing method for, 23:7776(T) (NP-tr-1713)
use for high-energy gamma radiation and elementary particles, 23:21979
use for neutron flux mapping in EDF-3, 23:1973 (CEA-R-3297)
use for whole-body dosimetry, 21:14473(R) (N-67-10874)

use for x-ray fluorescence analysis of binary and ternary systems, 22:30831
use in 90° helium-3 neutron spectrometer without recoil spectrum effects, 22:2395 (LA-3752)
use in alpha spectrometers, 21:28261
use in coincidence detectors for studying neutron reactions (n,d), (n,p) and (n,t) with light nuclei at 14 MeV, 21:45366 (LYCEN-6738, pp 201-4)
use in coincidence systems with scintillators, 21:10604 (IS-1478)
use in coincidence with proportional counters for detection of charged particles from neutron-induced nuclear reactions, 21:30716
use in combination with scintillation detectors for particle—gamma angular correlation measurements, 23:33405
use in cosmic ray telescope, 23:6284 (LA-DC-9627)
use in detection of short-range deuterons and protons in proton-deuteron and proton-proton scattering, 21:3268
use in determining impurities in alpha sources, 21:26148 (INR-767/XIII/I)
use in double focusing beta spectrometer, 21:6259
use in gas-filled scattering chambers, 21:3289
use in low-geometry alpha counting chamber, 21:30091(R) (ANL-7210)
use in neutron spectrometers employing charged-particle collimation, 22:19144
use in radiobiology and medicine, review of, 22:47344
use in scanning electron diffraction instrument, 21:4712
use in system for measuring charged-particle directional blocking effects in solids, 23:11913
use in three-channel proton spectrometer, 21:32432
use in three-crystal pair gamma spectrometers, 22:8369
use in x-ray fluorescence analysis, 22:19096 (INR-820/II/PS)
use in x-ray fluorescence analysis, 23:4800(T) (ANL-Trans-631)
use of catheter-type, in nuclear medicine, 23:7767
use of diode, as neutron detectors, 21:12636 (NP-16489)
use of lithium-6 sandwiched, for in-core neutron spectral measurements, 21:32365 (ANS-SD-2, Paper 3)
use of lithium-6-sandwiched, for neutron spectrum measurements in VERA critical assembly, 21:19964
use of lithium-drifted, in measurements of internal conversion coefficients, 21:19246 (UCRL-16969)
use of miniature, in biomedicine, 22:37984 (CONF-670545-, pp 126-36)
use of p—n junction diodes for measurement of dose distribution of high-energy radiation, 21:45387
use of position-sensitive, for measuring properties of double-focusing magnetic spectrometers, 22:14838
use of position-sensitive, for measuring properties of magnetic spectrometers, 22:8336 (ANU-P-387)
use of position-sensitive, in magnetic spectrometer with on-line computer for data analysis, 23:11829
use of position-sensitive, with magnetic spectrometers for analysis of charged particles, 21:45354 (LYCEN-6738, pp 40-1)
use of proton-recoil, for neutron dosimetry, 21:32490
use of surface barrier, on-line with computer for identifying nuclear particles, 22:28073
use of surface-barrier, for detection of low-level beta particles, 23:622
use of surface-barrier, for determining isotopic composition of plutonium, 21:45343 (BNWL-481-4, pp 42-5)
use of surface-barrier, for determining particle energy and position, 22:37980 (CONF-670545, pp 73-80)
use of surface-barrier, for monitoring column-chromatographic actinide and fission products separations, 23:4823
use of surface-barrier, with beta sources for radiovoltaic conversion, 25:23736 (AE-410, pp 63-82)
use of, in coincidence with scintillation detectors, for calibration of uranium-235 standard foils, 21:1303
use with charge-sensitive preamplifiers for nuclear spectroscopy, 21:30692 (IFA-CRD-33)
use with converter foils for measuring neutron spectra and flux, 22:51231
use with optical microscope for measuring angular distributions of fission fragments, 21:41225
use with scattering chamber, 21:6266
uses in biology, chemistry, medicine, nuclear physics, and space physics, 22:16877
uses in industry, research, and medicine, review on, 23:14013
uses in radioisotope technology, 22:43066
window thickness and rectifying process in surface-barrier, 22:40392
window thickness measurement of surface-barrier, 25:39726
window thickness of ion-implanted, measurement of, 23:26548
window thickness of surface-barrier, carrier diffusion effects on, 24:29505

RADIATION DETECTORS, SEMICONDUCTOR (GERMANIUM)

aging of lithium-drifted, used in gamma spectroscopy, 23:19994
amplifier for, design of pulse shaping variable gain, 22:14842
amplifiers for lithium-drifted, characteristics of, 23:21999
amplifiers for lithium-drifted, design of low-noise pulse, 22:14747 (EUR-3659)
amplifiers for lithium-drifted, simultaneous connection of fast and slow, 21:34515 (ORNL-4091, pp 1-14)
amplifiers for, development of low-noise charge-sensitive, 21:27574(R) (NYO-GEN-72-132)
amplifiers for, development of parametric, 21:22188 (BNL-994, pp 37-44)
angular correlation and distribution attenuation coefficients for coaxial and planar lithium-drifted, 23:4814
attenuation factors for lithium-drifted, directional correlation, 24:33879
background measurement of lithium-drifted, 25:57803
background reduction of lithium-drifted, use of massive cosmic-ray shielding for, 22:23259 (BNWL-SA-1516)
calibration and performance of lithium-drifted, for detection of gamma radiation at 100 keV to 12 MeV from nucleon capture reactions, 25:42129
calibration for gamma spectroscopy, Walford—Doust method for rapid, 23:16146
calibration of lithium-drifted, design of neutron-capture gamma sources for, 24:7640
calibration of lithium-drifted, europium-152 and radium-226 relative intensities for, 25:20425
calibration of lithium-drifted, europium-152 photon source for low-energy, 25:402
calibration of lithium-drifted, for gamma radiation energy and relative intensity measurements, 22:6631
calibration of lithium-drifted, for gamma spectroscopy at 0 to 14 MeV, 23:47799
calibration of lithium-drifted, for gamma spectroscopy, 25:23845
calibration of lithium-drifted, for gamma spectroscopy using sliding pulse generator, 24:9672
calibration of lithium-drifted, gamma energies and intensities of radium-226 source for, 25:55041 (ORNL-TM-3509)
calibration of lithium-drifted, method for absolute, 25:42125
calibration of lithium-drifted, method for improved energy, 25:18714
calibration of lithium-drifted, production of nitrogen-16 6.129-MeV gamma source for, 24:4440
calibration of lithium-drifted, relative precision in, 24:13358
calibration of lithium-drifted, selenium-75 gamma source for, 25:10842
calibration of lithium-drifted, survey of problems in, 23:22069
calibration of lithium-drifted, up to 3.5 MeV, use of cobalt-56 gamma source for, 22:2364
calibration of lithium-drifted, use of europium-152 for, 23:16114
calibration of lithium-drifted, using barium-133, 22:2352
calibration of, gamma spectra for, 25:5736
calibration using potassium-40, 21:28239
capacitance characteristics of lithium-drifted p—i—n, measurement of, 25:57802
capacitance—voltage characteristics of lithium-drifted, cooled FET input measurement of, 24:29499
carrier lifetime in lithium-drifted, correlation with lifetime in initial material, 25:21411
carrier lifetime in, apparatus for measuring minority, 21:39178 (BNL-11645)
carrier lifetime measurements in lithium-drifted p-i-n diode, 24:5872 (EUR-4269, pp 13-24)
carrier lifetime measurements in, effects of clusters of recombination centers on photoconductive, 24:5873 (EUR-4269, pp 25-30)
carrier transit times in, use of collimated gamma radiation for determining, 22:38041
carrier trapping and detrapping effects in lithium-drifted, quantitative analysis of, 24:29504
carrier trapping and tailing effects in lithium-drifted, 23:13993(R) (UCRL-71507)
carrier trapping and tailing effects in lithium-drifted, 25:13213 (UCRL-71508)
carrier trapping in lithium-drifted, derivation and testing of model for, 25:57815
carrier trapping in lithium-drifted, use of collimated gamma radiation for determining, 22:38041
carriers in lithium-drifted, use of collimated gamma radiation for determining properties of, 22:38041
characteristics for gamma detection, 22:23284
characteristics of 120 cm^3 lithium-drifted, 24:29512
characteristics of coaxial lithium-drifted, through warmup and redrift cycles, 22:40398
characteristics of gold surface-barrier, for gamma spectroscopy, 24:44303
characteristics of lithium-drifted, with gold surface-barrier thin window, 24:4456
characteristics of position-sensitive lithium-drifted, for γ cameras, 25:18699
characteristics of thin-window, 25:6538 (UCRL-19530, pp 329-39)
characteristics of, calculation of, 25:57762
characteristics of, research on, 25:17294(R) (NBS-TN-560)
charge carrier trapping and detrapping effects in lithium-drifted, 24:39298
charge carrier trapping and tailing effects in lithium-drifted, 24:50629
charge carrier trapping effects in lithium-drifted, 24:39292
charge carrier trapping effects in lithium-drifted, 24:39294
charge carrier trapping in lithium-drifted, measurements of, 23:22013
charge collection efficiency in coaxial and planar lithium-drifted, 24:39295
charge collection efficiency of lithium-drifted, for detection of x radiation, 22:28087
charge collection efficiency of lithium-drifted, for detection of x radiation, 23:26504 (AD-677011)
charge collection in coaxial lithium-drifted, 22:20497(R) (AECL-3009)
charge collection in coaxial lithium-drifted, 22:46729(R) (AECL-3157)
charge collection in coaxial lithium-drifted, for gamma spectroscopy, 22:40396
charge collection in lithium-drifted, 23:19944
charge collection in lithium-drifted, 23:23746(R) (AECL-3257)
charge collection in lithium-drifted, effects on gamma spectra measurements, 24:5874 (EUR-4269, pp 31-6)
charge collection in lithium-drifted, in high magnetic fields, 24:36561
charge collection time of planar and coaxial lithium-drifted, effects of depletion layer thickness, fast discriminator threshold, and noise sources on, 23:40987 (EUR-4289, pp 95-100)
charge trapping and detrapping in lithium-drifted, 22:40391
charge trapping and tailing effects in lithium-drifted, 24:5890 (UCRL-50485)
charge trapping in lithium-drifted, effects of defect structures on, 23:50127 (UCRL-71679)
charged-particle energy loss, range, and stopping power in, 22:16859 (CEA-R-3371)
chemical preparation of surfaces of lithium-drifted, 23:38287
circuits and switching pattern for circular polarization measurements of scattered gamma radiation, 24:44288
circuits for lithium-doped, design of digital gating system for γ-γ coincidence, 22:28075
circuits for lithium-drifted, design of timing, 21:36380
circuits for lithium-drifted, development of pulse-shape discrimination, 21:12666
circuits for lithium-drifted, pulse-height compensation, 23:17774
coincidence circuit design with simultaneous measurements of true and random events for, 21:26299
coincidence summing effects in lithium-drifted, in gamma spectroscopy, 23:638
compensated region of lithium-drifted, use of thin plastic coating for protection of, 22:36046
Compton effect reduction in, for higher resolution gamma- and x-ray detection, 21:17892(P)
conduction channel formation in homogeneous, 22:14806
conference on, 23:22003
conference on materials and fabrication techniques for, 24:5871 (EUR-4269)
contacts for lithium-drifted, regrown p$^+$, 21:26176
cooling of lithium-drifted, design of miniature cryostat for, 22:6611
cooling system for lithium-drifted, design of miniature, 21:8606
core shape and size in coaxial lithium-drifted, use of collimated gamma radiation for determining undrifted, 22:38041
cryostat design for lithium-drifted, with internal liquid circulation and swelling cold finger, 23:11778
cryostat for lithium-drifted, 25:42084
cryostat for lithium-drifted, liquid nitrogen, 23:29193
cryostat for lithium-drifted, vacuum sorbent cut-off device for, 25:29351
cryostat for, design of, 23:43534
cryostat for, design of standardized, 21:43273
cryostat system for nonencapsulated lithium-drifted, mechanical design of, 21:39215
cryostats for lighium-drifted, design of, 22:38057 (AE-320)
cryostats for lithium-drifted, description of dual-chamber vacuum, 25:42132
cryostats for lithium-drifted, design of, 23:33481
cryostats for lithium-drifted, design of cold finger, 21:17884
cryostats for, liquid nitrogen level indicator for, 24:39207 (IN-1317, pp 233-381)
crystal defects in lithium-drifted, 24:20985
crystals for lithium-drifted, etch-pit distributions as guide for selection of, 24:29508
current carrier lifetime in lithium-drifted, measurement of, 25:51858
current leakage detection and high voltage removal from, design of equipment for, 22:14897
current—voltage characteristics of lithium-drifted, surface treatment effects on, 22:28091
data analysis of lithium-drifted, computer program for gamma spectra, 24:31720 (UCRL-19452)
data from lithium-drifted, computer analysis of gamma spectra, 24:9669 (UCRL-18948)
data from lithium-drifted, computer method for analysis of gamma spectral, 24:11831
data from lithium-drifted, computer program for analyzing gamma spectrometric, 25:48986
data from lithium-drifted, computer program for automatic analysis of, 23:13987 (IS-1986)
data from lithium-drifted, computer techniques for analysis of, 25:51882 (PEL-204)
data from lithium-drifted, cross-correlation techniques for analysis of, 23:33489
data from lithium-drifted, method for analyzing gamma spectroscopic, 23:33474 (ANL-7282, pp 233-44)
data-acquisition system for, design and performance of high-count rate two-parameter, 25:57806
defect structures in lithium-drifted, methods for studying, 23:50127 (UCRL-71679)
description and operating parameters of photoelectronic, 21:24201
description of lithium-drifted, for gamma-ray and particle spectroscopy, 22:38061 (CONF-670545-, pp 116-25)
description of scanning-type, for determining fuel element burnup, 25:8951(R) (GEAP-10217)
design and fabrication of, 22:16877
design and operation of lithium-drifted, for measurement of conversion coefficients, 24:4471
design and performance for gamma spectroscopy using sum and coincidence methods, 22:19149
design and performance in multi-detector spectrometer system for internal conversion coefficient measurements, 24:2486
design and performance of anticoincidence-shielded lithium-drifted, for gamma spectroscopy, 22:40444
design and performance of coaxial lithium-drifted, with active volumes between 20 and 40 cm^3, 22:6615
design and performance of coaxial lithium-drifted, for gamma detection, 22:2418
design and performance of coaxial lithium-drifted, for gamma detection, 24:22985 (INR-P-1161)
design and performance of encapsulated lithium-drifted, as gamma spectrometers, 21:3261

design and performance of high-resolution lithium-drifted, for gamma rays, 21:8586
design and performance of large coaxial lithium-drifted, for gamma spectroscopy, 21:32466
design and performance of large-volume high-resolution lithium-drifted, 23:22081
design and performance of large-volume multi-element lithium-drifted, for gamma spectroscopy, 25:23832 (AAEC/TM-572)
design and performance of lithium-drifted, 25:13212 (NP-18653)
design and performance of lithium-drifted, for anticoincidence-shielded gamma spectroscopy, 22:23308 (BNWL-SA-1522)
design and performance of lithium-drifted, for gamma spectroscopy, 22:38058 (CEA-R-3405)
design and performance of lithium-drifted, for gamma-ray linear polarization measurements, 23:50229
design and performance of lithium-drifted, for gamma spectroscopy, 21:19938
design and performance of lithium-drifted, for gamma spectrometry with Compton suppression, 25:48981
design and performance of lithium-drifted, for gamma spectroscopy, 23:33481
design and performance of lithium-drifted, for gamma spectroscopy, 24:36603
design and performance of lithium-drifted, for gamma spectroscopy, 25:8541
design and performance of lithium-drifted, for gamma spectroscopy in presence of strong Compton and neutron background, 21:43257
design and performance of lithium-drifted, for high resolution gamma spectroscopy, 22:38062 (CONF-670545-, pp 146-55)
design and performance of lithium-drifted, for high-resolution neutron-capture gamma spectroscopy, 22:45315 (AAEC/TM-462)
design and performance of lithium-drifted, for neutron-capture gamma spectroscopy, 22:10575 (CEA-Bib-110)
design and performance of lithium-drifted, for total absorption gamma spectroscopy, 22:23307 (BNL-12332)
design and performance of lithium-drifted, in anticoincidence for gamma spectroscopy, 23:2639
design and performance of lithium-drifted, with germanium junction FET preamplifier for gamma and x-ray spectroscopy, 22:40450
design and performance of p-i-n, 21:10631
design and performance of pair of planar lithium-drifted, for gamma spectroscopy, 24:39325
design and performance of planar lithium-drifted, connected in parallel for large-volume biological analysis, 22:4431 (UCRL-70545)
design and performance of well-type lithium-drifted, for sum-coincidence measurements, 24:9673
design and resolution of lithium-drifted, for 160-MeV protons, 21:17856
design and testing of lithium-drifted, for use in Compton spectrometers, 23:47796
design and use of high-resolution lithium-drifted, for gamma radiation, 22:2353
design and use of lithium-drifted, for gamma spectroscopy, 23:24459
design for reactor fuel element burnup measurement, 25:18248
design for use in activation analysis studies of biological materials, 23:14220 (ORO-2401-27, pp 3-51)
design of compensated lithium-drifted, 25:6541(P)
design of composite N-I-P-I-N, for gamma spectrometry, 25:37639(P)
design of lithium-drifted, cooled by melting propane for well logging, 25:48953 (CONF-710402-(Vol.3), pp III.1-6)
design of lithium-drifted, for burnup determination in fuel rods by gamma spectroscopy, 23:43589
design of lithium-drifted, for coincidence gamma spectroscopy, 22:40445
design of lithium-drifted, for Compton suppression and pair spectrometer, 23:22068
design of lithium-drifted, for gamma spectroscopy in well logging, 23:22079
design of lithium-drifted, for gamma-spectroscopic analysis of biological materials, 22:4461 (UCRL-70544)
design of lithium-drifted, for measuring linear polarization of cascade gamma radiation, 23:21944 (UJV-2113-F)
design of lithium-drifted, for two-crystal total-absorption gamma spectrometer, 23:47800
design of lithium-drifted, for use in Compton sum coincidence gamma spectrometer, 22:40443
design of lithium-drifted, for use with thallium-activated sodium iodide detectors for gamma—gamma coincidence measurements, 23:35503 (KFK-887)
design of lithium-drifted, for use with thallium-activated sodium iodide detectors for gamma—gamma angular correlation measurements, 23:24444
design of lithium-drifted, for use with thallium-activated sodium iodide detectors in pair and anti-Compton gamma spectrometers, 23:47795
design of lithium-drifted, with germanium FET preamplifier for gamma and x-ray spectroscopy, 22:19136 (UCRL-17901)
design of, for analysis of gamma spectra of angiotensin and renin, 21:1772(R) (ORO-2401-8)
development and performance of large volume coaxial lithium-drifted, 21:1563 (AECL-2607)
development and research on lithium-drifted, 25:6258(R) (IN-1426)
development and theory of operation of lithium-drifted, 24:22987 (NP-18180)
development and uses of lithium-drifted, 22:14800
development and uses of lithium-drifted, conference on, 22:14753 (STI/PUB-132)
development and uses of lithium-drifted, for gamma spectroscopy, 23:50165 (UCRL-71825)
development and uses of lithium-drifted, in health physics, 23:11806
development at LRL, 23:50120 (UCRL-18667, pp 331-42)
development at ORNL, 24:7630 (ORNL-4459, pp 15-22)
development for charged particle spectroscopy, 23:50120 (UCRL-18667, pp 331-42)
development for gamma spectrometers, 21:2651(R) (AECL-2612)
development for nuclear physics research, 22:14763
development for x-ray spectroscopy, 23:19996
development of anticoincidence-shielded dual lithium-drifted, for low-level gamma spectroscopy, 24:31727
development of avalanche-type, 22:40389
development of coaxial lithium-drifted, 23:47764
development of coaxial lithium-drifted, for gamma spectrometry, 21:22156
development of high-resolution, 21:29969(R) (UCRL-17299)
development of high-resolution lithium-drifted, for gamma spectroscopy at high input rates, 21:26163
development of high-resolution, for clinical use, 22:12864(R) (ORO-2401-10)
development of large-volume lithium-drifted, 23:21331 (MIT-952-5(Pt.1), pp 200-314)
development of lithium-drifted, 21:39222
development of lithium-drifted, 21:34472 (ORNL-4091, pp 38-48)
development of lithium-drifted, 22:11944(R) (AECL-2780)
development of lithium-drifted, at Argonne National Laboratory, 23:33473 (ANL-7282, pp 118-87)
development of lithium-drifted, for anticoincidence-shielded gamma spectrometer, 23:35508
development of lithium-drifted, for charged particle spectroscopy, 22:40400
development of lithium-drifted, for gamma spectrometry, 21:22188 (BNL-994, pp 37-44)
development of lithium-drifted, for gamma spectroscopy, 22:45316 (AERE-R-5703)
development of lithium-drifted, for gamma spectroscopy, 23:11844
development of lithium-drifted, for gamma-ray astronomy, (E), 21:27018 (MIT-2098-299, pp 1-15)
development of lithium-drifted, for gamma-ray spectroscopy, 21:45341 (BNWL-481-4, pp 39-40)
development of lithium-drifted, for gold assay by activation analysis, 25:29357
development of lithium-drifted, for passive assay of plutonium scrap, 25:23764(R) (BHO-66-2)
development of lithium-drifted, for x-ray spectroscopy, 24:44239 (CEA-CONF-1541)
development of p—i—n, review on, 25:57730
development of planar lithium-drifted, 23:17107(R) (OU-LNS-68-1)
development of room-temperature-stable p-i-n, for x-ray spectrometry, 25:48966
development of thin planar lithium-drifted, for γ linear polarization measurements, 23:1878(R) (NYO-2028-3)
development of time-of-flight gated lithium-doped, for detecting gamma rays, 22:26932(R) (NP-17434)
development of total absorption lithium-drifted, for gamma spectroscopy, 22:40441
development of well-type lithium-drifted, for low-level gamma detection, 24:27375
efficiencies of coaxial lithium-drifted, calculations of, 25:18755
efficiencies of lithium-drifted, calculation of intrinsic total-absorption and double-escape peak, 24:16838 (UCRL-19392)
efficiencies of lithium-drifted, Monte Carlo calculations of geometry effects on, 25:44674
efficiency and resolution of lithium drifted, for measuring radioactive fallout, 22:45320
efficiency and resolution of lithium-drifted, 23:24460
efficiency and resolution of lithium-drifted, 23:44849(R) (IN-1130)
efficiency and resolution of lithium-drifted, for gamma spectroscopy, 23:24426 (IN-1218, pp 181-316)
efficiency and resolution of lithium-drifted, for gamma detection at 5 to 17 MeV, 24:14244 (CEA-CONF-1432)
efficiency and resolution of lithium-drifted, for gamma detection, 24:14248(T) (LIB/Trans-241)
efficiency and solid-angle corrections for five-sided lithium-drifted, 25:59841(R) (ORO-4119-1)
efficiency as a point detector, calibration of, 25:18676
efficiency as function of trapping factor for, (E), 25:10851 (NP-18570)
efficiency calibration for 1- to 100-keV x radiation from radioactive sources, 25:18715
efficiency calibration of coaxial lithium-drifted, use of radium for, 24:2473
efficiency calibration of large-volume lithium-drifted, 23:50162 (BNWL-1051(Pt.2), pp 118-21)
efficiency calibration of lithium-drifted, 25:42048 (ANL-7710, pp 263-364)
efficiency calibration of lithium-drifted, for detection of gamma rays at 20 to 100 keV, 22:45296
efficiency calibration of lithium-drifted, for detection of gamma rays at 200 to 2800 keV, 23:33396
efficiency calibration of lithium-drifted, use of meson (μ) x rays for, 23:11780
efficiency calibration of well-type lithium-drifted, for gamma detection, 25:57740
efficiency curve for thin lithium-drifted, for low-energy gamma rays, semi-empirical, 25:18725
efficiency equation for lithium-drifted, for gamma detection at 200 to 1500 keV, 23:43539
efficiency for gamma detection, 22:8345
efficiency for gamma radiation, attenuation coefficients for calculating, 21:26182
efficiency for protons at 5 to 150 MeV, corrections for nuclear reactions, (E/T), 22:13927(R) (USC-136-132)
efficiency for protons, nuclear reaction correction for, 22:14796
efficiency improvements for, 21:4233(R) (AECL-2610)
efficiency in neutron activation analysis, 24:4255
efficiency in neutron activation analysis of geological samples, 22:44975 (MIT-905-125)
efficiency of 30-cm^3 lithium-drifted, 25:6399(R) (MLM-1751)
efficiency of 50 cm^3 lithium-drifted, for gamma radiation at 122 keV to 9.17 MeV, 25:18702
efficiency of coaxial and planar lithium-drifted, calculation of, 24:5904
efficiency of coaxial lithium-drifted, photopeak, (E/T), 25:34900
efficiency of cylindrical lithium-drifted, for gamma rays, calculated, 23:4827
efficiency of cylindrical lithium-drifted, for gamma spectroscopy, calculation of, 23:11760 (PINSTECH/PHY-16)
efficiency of cylindrical planar lithium-drifted, effects of source distance on, 25:37598
efficiency of cylindrical-type lithium-drifted, calculated, 22:7569(R) (BARC-291)
efficiency of lithium-drifted, 23:19939
efficiency of lithium-drifted, 3.85-MeV gamma source for determining, 23:21986
efficiency of lithium-drifted, approximation methods for calculation of intrinsic total-absorption and double-escape peak, 24:39249
efficiency of lithium-drifted, as function of cleanup, 23:22019
efficiency of lithium-drifted, calculation of full-energy peak and double escape peak, 24:9632 (BARC-403)
efficiency of lithium-drifted, correlation of resolution and volume with full peak, 24:5879 (EUR-4269, pp 103-18)
efficiency of lithium-drifted, effects of source distance on, 25:42048 (ANL-7710, pp 263-364)
efficiency of lithium-drifted, empirical method for determining full-energy peak and two-escape peak, for gamma detection, 22:333
efficiency of lithium-drifted, energy dependence of, 23:22020
efficiency of lithium-drifted, for 0.2- to 1.5-MeV gamma radiation, equation for, 22:49080
efficiency of lithium-drifted, for detection of x-rays at 8 to 98 keV, 23:33407
efficiency of lithium-drifted, for forensic activation analysis, 22:30850
efficiency of lithium-drifted, for gamma and x radiation, 25:42133
efficiency of lithium-drifted, for gamma detection, 23:50158
efficiency of lithium-drifted, for gamma detection at 50 to 400 keV, full-energy-peak, 23:26544
efficiency of lithium-drifted, for gamma rays at 0.4 to 1.5 MeV, calculation of, 25:419
efficiency of lithium-drifted, for gamma spectroscopy, 24:36597 (KURRI-TR-71)
efficiency of lithium-drifted, for gamma spectroscopy, 23:46940(R) (COO-1549-15)
efficiency of lithium-drifted, for γ spectroscopy, 23:22082
efficiency of lithium-drifted, for low-energy gamma and x-ray spectrometry, 21:12660
efficiency of lithium-drifted, for measurement of K conversion coefficients, coincidence-collimation technique for, 25:18759
efficiency of lithium-drifted, for use in activation analysis, 21:12285(R) (ORNL-4039)
efficiency of lithium-drifted, methods for determining, 23:35469
efficiency of lithium-drifted, new standard sources for determination of, 24:8864
efficiency of lithium-drifted, relation between volume and, 23:11784
efficiency of lithium-drifted, semi-empirical equation for low-energy gamma detection, 25:379
efficiency of lithium-drifted, use of collimated gamma radiation for determining, 22:38041
efficiency of planar lithium-drifted, determination at low energies, 24:33884
efficiency of, for x-ray detection, 22:40430
efficiency, peak-to-total ratio, and total absorption probability of lithium-drifted, for gamma detection, measurement of intrinsic, 23:19934 (KFK-865)
electron—hole production from thermal radiation of casing of lithium-drifted, current leakage due to, 22:49082
electron-hole drift mobility at 77°K in lithium-compensated, 21:6274
electron-hole pair formation energy in γ detection at 10 to 170°K, average, 22:20497(R) (AECL-3009)
encapsulation of lithium-drifted, for gamma spectroscopy, vacuum chamber for, 24:5916 (EUR-4269, pp 137-42)
energy loss by electronic excitation in, 22:14831
energy per electron—hole pair in lithium-drifted, for gamma radiation, temperature effects on, 22:28090
energy resolution of lithium-drifted, for detection of 20- to 100-MeV protons, 25:42128
energy resolution of lithium-drifted, theoretical limits of, 22:37979 (CONF-670545-, pp 57-61)
errors in coaxial lithium-drifted, correction of angular correlation solid-angle, 24:11799
fabrication and characteristics of coaxial lithium-drifted, for gamma spectroscopy, 22:14829
fabrication and evaluation of crystals for, 24:39293
fabrication and evaluation of lithium-drifted, for gamma transient detection, 21:17820(R) (UCRL-13272)
fabrication and operation characteristics of lithium-drifted, 22:33648
fabrication and performance of coaxial lithium-drifted, 25:2437
fabrication and performance of gamma U-junction lithium-drifted, 21:3248 (UCRL-14926)
fabrication and performance of gamma-compensated, for gamma spectroscopy, 24:22980 (AAEC/TM-527)
fabrication and performance of large-volume lithium-drifted, for gamma spectroscopy, 23:47783

fabrication and performance of large-volume lithium-drifted, 24:11779
fabrication and performance of lithium-drifted, 21:281
fabrication and performance of lithium-drifted, for gamma spectroscopy, 22:28179
fabrication and performance of lithium-drifted, for studying nuclear reaction gamma rays, 22:37992 (N-68-11787)
fabrication and performance of lithium-drifted, for in vivo measurements, 23:43605(R) (NYO-3510-10)
fabrication and properties of lithium-drifted, for gamma detection, 22:19117
fabrication and testing of 60-cm^3 well-type lithium-drifted, for activation analysis, 25:57805
fabrication and testing of gamma, made from high-purity germanium, 25:57814
fabrication and testing of gamma-compensated, for gamma spectrometers, 25:48965
fabrication and testing of high-purity n—i—p, for gamma spectroscopy, 25:57811
fabrication and testing of high-purity p-type, for gamma spectroscopy, 25:57820
fabrication and testing of high-purity, for gamma and x radiation, 25:57762
fabrication and testing of lithium-drifted, 21:10607(R) (N-66-19650)
fabrication and testing of lithium-drifted, 25:48987
fabrication and testing of lithium-drifted, nomographs for use in, 25:369 (NBS-TN-537)
fabrication and testing of well-type lithium-drifted, with $<5\mu$ dead layer, 25:57799
fabrication and use of lithium-drifted, 22:10543 (UJV-1873)
fabrication and use of lithium-drifted, 22:14802
fabrication and use of lithium-drifted, for gamma detection, 21:34477 (USNRDL-TR-67-55)
fabrication and use of lithium-drifted, for high-resolution nuclear decay studies, 23:6295
fabrication and use of, for detection of ionizing radiations, 21:17825
fabrication and uses of, 21:16148(T) (AD-644024)
fabrication and uses of lithium-drifted, 22:23358 (IA-1128, pp 185-212)
fabrication by ion implantation, 25:8484(P)
fabrication for gamma detection, problems in, 22:14799
fabrication for gamma spectroscopy, 24:39299
fabrication of, 22:14798
fabrication of annular lithium-drifted, for detection of gamma radiation, 23:13988 (N-68-35152)
fabrication of annular lithium-drifted, for use as standard-geometry gamma spectrometer, 21:32461
fabrication of arrays of lithium-drifted, for use in gamma camera, 25:370(R) (NYO-3510-15)
fabrication of crystals for, 24:25265 (UCRL-72108)
fabrication of double-drift thin-window planar lithium-drifted, 24:2453 (UCRL-71787)
fabrication of double-drift thin-window planar lithium-drifted, 24:39245
fabrication of encapsulated lithium-drifted, for gamma spectroscopy, 23:9697 (EUR-4063)
fabrication of high-resolution lithium-drifted, drift methods for, 21:3276
fabrication of ion-doped, 22:40387
fabrication of large crystals for lithium-drifted, for gamma spectroscopy, 24:39343
fabrication of large lithium-drifted, 21:27574(R) (NYO-GEN-72-132)
fabrication of large planar lithium-drifted, 24:5901
fabrication of large, multiple-element, lithium-drifted, for gamma spectroscopy, 21:32462
fabrication of large-volume coaxial lithium-drifted, techniques and problems involved in, 24:5880 (EUR-4269, pp 121-31)
fabrication of large-volume lithium-drifted, for gamma spectroscopy, 23:22084
fabrication of lithium-drifted, 21:6264
fabrication of lithium-drifted, 23:14016
fabrication of lithium-drifted, 23:43518 (CSIR-283)
fabrication of lithium-drifted, 21:17891(P)
fabrication of lithium-drifted, 23:19944
fabrication of lithium-drifted, 21:11991(R) (UCOL-535-561)
fabrication of lithium-drifted and lithium-diffused, 22:38035
fabrication of lithium-drifted planar, methods development for, 22:26929(R) (COO-1420-139)
fabrication of lithium-drifted planar, using zone-leveled single crystals, 23:1825 (NP-17579, pp III.12-17)
fabrication of lithium-drifted, ac drift method for, 21:32460
fabrication of lithium-drifted, accuracy of compensation in, 24:29525
fabrication of lithium-drifted, at Soreq Nuclear Research Center, 22:36031 (IA-1153)
fabrication of lithium-drifted, bibliography on, 22:28062 (CEA-Bib-90)
fabrication of lithium-drifted, by ac drifting, 21:1566
fabrication of lithium-drifted, diffusion techniques for, 22:28092
fabrication of lithium-drifted, effects of lithium precipitation in, 25:57735
fabrication of lithium-drifted, experiences and problems in industrial, 24:5881 (EUR-4269, pp 133-6)
fabrication of lithium-drifted, for gamma radiation, 21:7771(R) (NYO-2028-1)
fabrication of lithium-drifted, for gamma spectroscopy, 25:18772
fabrication of lithium-drifted, for gamma spectroscopy, 25:37632
fabrication of lithium-drifted, for gamma spectroscopy, 25:8463 (BLG-447)
fabrication of lithium-drifted, for gamma-ray detection in Moessbauer experiments, 22:6562 (NYO-2028-2, pp 150-8)
fabrication of lithium-drifted, method for, 21:26206(P)
fabrication of lithium-drifted, method for copper-staining crystals for observation during, 23:11781
fabrication of lithium-drifted, methods development for, 21:27572 (MIT-2098-299, pp 74-82)
fabrication of lithium-drifted, methods development for, 23:19254(R) (ORO-3624-7)
fabrication of lithium-drifted, methods development for, 22:11950(R) (ORO-3624-1)
fabrication of lithium-drifted, methods development for, 21:40429(R) (RLO-1388-23)
fabrication of lithium-drifted, stabilized power supply for, 23:9696 (CEA-R-3631)
fabrication of lithium-drifted, technique for determining depletion depth in, 22:14797
fabrication of lithium-drifted, technological aspects of industrial, 21:39221
fabrication of lithium-drifted, time dependence of coaxial drift process for, 21:7355
fabrication of lithium-drifted, using ac drifting, 21:17318(R) (AECL-2659)
fabrication of lithium-drifted, with drifting in bath of boiling pentane, 23:28300 (NP-17819, Chap.3.2)
fabrication of lithium-drifted, with radiation defects for gamma spectroscopy, 21:28218(T) (ORNL-tr-1651)
fabrication of neutron-compensated, for gamma spectroscopy, 23:33490
fabrication of p—i—n, for detection of gamma radiation, 23:31517(R) (NYO-3870-2)
fabrication of planar and coaxial lithium-drifted, for gamma spectroscopy, 22:14830
fabrication of thick lithium-drifted, for gamma rays, 21:28207 (JAERI-1131)
fabrication of thin-windowed, gallium ion implanted, for proton detection, 24:5888 (EUR-4269, pp 267-82)
fabrication of, neutron transmutation methods for, 21:23908 (BNL-50042)
fabrication of, review on, 24:11763 (BARC-443)
fabrication of, testing and evaluation of crystals for, 22:38034
fabrication of, use of neutron transmutation doping for, 21:26151(R) (NYO-3124-2)
fabrication techniques for, conference on, 24:5871 (EUR-4269)
failures in lithium-drifted, leakage current alarm circuit for, 24:44275
Fano factor for lithium-drifted, 24:29535
Fano factor for, (E/T), 24:50544 (AD-707095)
Fano factor for, (E/T), 24:39296
Fano factor for, measurement at 77°K, 23:22007
Fano factor in, 22:40385
Fano factor in lithium-drifted, measurements of, 25:37597
Fano factor in lithium-drifted, variations in effective, 24:39241
Fano factor measurement in lithium-drifted, at 77°K, 23:33409
field increment effect in lithium-drifted, 23:24426 (IN-1218, pp 181-316)
filters for time analysis with lithium-drifted, design and performance of time-variant, 23:11774
gamma angular correlation attenuation coefficients and efficiencies for square lithium-drifted, calculation of, 22:19109
gamma angular correlation attenuation factors and efficiencies for lithium-drifted, calculation of, 21:8605
gamma attenuation coefficients for, directional correlation, 21:16145 (UCD-CNL-74)
gamma energy losses in lithium-drifted, Monte Carlo calculation of, 23:28243(R) (BARC-364)
gamma energy-peak efficiency of lithium-drifted, 21:32361 (AAEC/TM-384)
gamma peak efficiencies of lithium-drift, calculations of double-escape and photo, 21:8597
gamma polarization measurements using single lithium-drifted, 23:23746(R) (AECL-3257)
gamma spectra from lithium-activated, analysis of peak shapes in, 23:47339(R) (BNWL-1106)
gamma spectra from lithium-drifted, computer method for analysis of, 23:41044 (EUR-4289, pp 375-8)
gamma spectra from lithium-drifted, effect of undepleted region upon Doppler-broadened line shapes in, 23:26529
gamma spectra from, use of on-line computer for analysis of, 22:43076 (AAEC/TM-458)
gamma spectral data from lithium-drifted, line shape analysis of, 23:11818 (ANU-P-413)
gamma spectral data from lithium-drifted, statistical methods for smoothing, 21:39227
gamma spectral line broadening in, at 0.2 to 2.5 MeV, energy dependence of, 22:10577 (SGAE-PH-55/1967)
geometric corrections for coaxial lithium-drifted, finite solid-angle, 25:2455
geometric corrections for coaxial lithium-drifted, finite solid-angle, 25:2454
geometrical correction factors for angular correlation measurements with coaxial lithium-drifted, 25:42054 (LPN-UM-53)
geometrical correction factors for lithium-drifted, for angular correlation measurements, 25:32246
geometrical correction factors for lithium-drifted, for angular correlation measurements of gamma radiation at 30 keV to 1 MeV, 25:44595
geometry corrections for lithium-drifted, finite solid-angle, 24:9647
geometry effects on gamma spectrum shapes from lithium-drifted, detector—source, 25:23843
geometry optimization for x-ray detection, 25:23771 (NP-18684)
impurities in, determination of, 24:5876 (EUR-4269, pp 55-64)
impurity and defect energies and concentrations in, photoresponse technique for determining, 23:40998 (UCRL-71625)
influence on nuclear spectroscopic studies, 23:22064
intrinsic region of coaxial lithium-drifted, insensitive zones in, 24:20998
ion drifting in, equation for characterizing lithium, 24:39289
ion drifting in, gettering technique for improved lithium, 24:39290
ion drifting of, determination of depletion depth during lithium, 24:11805
ion drifting of, method for rectified ac lithium, 24:36570
ionization energy measurements as function of temperature in lithium-drifted, for alpha particles, electrons, and gamma radiation, 22:14809
ionization fluctuations and resolution of, calculation of Fano factor for determining, 21:10659
leakage current characteristics of large-volume lithium-drifted, as diagnostic measurement on quality, 24:5878 (EUR-4269, pp 81-99)
leakage current in lithium-drifted, negative differential resistance, 22:14760
leakage current of lithium-diffused, (E/T), 25:32249
linear absorption coefficients for photon interactions in, 25:42133
linearity of lithium-drifted, 23:19939
linearity of lithium-drifted, for detection of 0.5- to 10-MeV gamma rays, 21:17841
linearity of lithium-drifted, for detection of 20- to 100-MeV protons, 25:42128
lithium driftability in, (E), 23:22016
lithium drifting in, effect of oxygen content on, 23:22017
lithium drifting of, method for, 21:34472 (ORNL-4091, pp 38-48)
lithium drifting of, method for controlling, 21:17831
materials for, conference on properties of, 24:5871 (EUR-4269)
materials studies on lithium-drifted, 25:51861
monocrystals for, fabrication and properties of, 23:17743 (BLG-425, Paper 2)
mounting procedures for, 21:12656
multiple scattering in lithium-drifted, for gamma spectroscopy, 25:18726
operation and efficiency of lithium-drifted, for gamma spectroscopy, 22:40453
operation and performance for gamma and charged-particle spectroscopy, 25:10851 (NP-18570)
operation and performance of coincidence pair of lithium-drifted, as summing Compton spectrometer, 24:39342
operation and performance of gold-barrier hyper-pure, near liquid helium temperature, 25:32206 (AAEC/TM-584)
operation and performance of lithium-drifted, for gamma spectroscopy, 25:18772
operation characteristics of, for gamma spectroscopy, 23:19991
operation of coaxial lithium-drifted, parallel, 21:32463
operation of lithium-drifted, for gamma spectroscopy, 23:17783 (BLG-425, Paper 1)
operational principles and physical properties of, 22:37976 (CONF-670545-, pp 7-16)
pair formation in lithium-drifted, temperature dependence of average energy for electron—hole, 25:57739
peaks from Compton scattering between lithium-drifted coincidence, elimination of spurious, 25:18754
performance and properties of lithium-drifted, using thermoelectric refrigerating system, 24:46476
performance evaluation of lithium-drifted, method using infrared radiation for, 24:2454 (UCRL-71822)
performance for beta spectroscopy, 22:14825
performance for charged-particle and gamma spectroscopy, 23:21982
performance for gamma spectroscopy, 25:57822
performance for gamma spectroscopy, 24:39299
performance for gamma spectroscopy, survey of, 23:22070
performance for high-resolution gamma spectroscopy, 25:48963
performance for measuring gamma spectra from products of uranium-235 thermal fission, 24:43314 (FOA-4-4420-28)
performance for measuring iodine-131 transport in food chain to cows milk, 23:31682
performance for neutron activation analysis, 23:35493
performance for precise measurement of gamma spectra of 24 nuclides in 400 to 1300 keV region, 25:48983
performance for radioisotope scanning, 25:39701 (CONF-710204-3)
performance for x-ray detection relative to other detectors, 25:15900
performance in fuel burnup determinations, 21:21805
performance in γ spectrometry in comparison to scintillation detectors, 22:40679
performance in neutron activation analysis in forensic science, 22:22929(R) (GA-8013)
performance in plutonium passive analysis system, 25:6515(R) (BHO-66-1)
performance in surveying oil wells using beryllium—polonium neutron sources, 25:32138
performance in system for measuring lifetimes of isomeric energy levels, 25:18753
performance in two-crystal Compton gamma spectrometer, 23:17794
performance in x-ray fluorescence analysis of geologic samples, 21:36110
performance of 20-cc lithium-drifted, 22:32513(R) (ANU-P-400)
performance of 20-cm^3 lithium-drifted, 22:18123(R) (RLO-1925-11)
performance of coaxial lithium-drifted, for gamma spectroscopy, 22:14833
performance of coaxial lithium-drifted, for nuclear lifetime measurements using pulsed beam delayed-coincidence techniques, 25:48969
performance of Compton-suppression lithium-drifted, for gamma spectroscopy in radiochemical analysis, 23:50163 (BNWL-1051(Pt.2), pp 121-7)
performance of gamma compensated, for gamma detection, 23:22031
performance of ion-implanted and surface-barrier contacts for lithium-drifted, 24:33885

performance of large satellite-borne lithium-drifted, for cosmic-ray detection, 25:57791
performance of large-volume open-ended coaxial lithium-drifted, for gamma spectroscopy, 22:19138
performance of lithium-drifted, 21:12011 (AECL-2639)
performance of lithium-drifted, as gamma spectrometers at 5.0 to 170°K, 21:22139
performance of lithium-drifted, as gamma spectrometer over wide temperature range, 21:43222 (AECL-2762)
performance of lithium-drifted, at 5 to 220°K for γ spectroscopy, 23:22083
performance of lithium-drifted, at 5 to 220°K, (E), 21:40473(R) (PR-P-74)
performance of lithium-drifted, at high counting rates, 21:17318(R) (AECL-2659)
performance of lithium-drifted, design factors affecting, 24:27370
performance of lithium-drifted, effects of operating at average biases of 70 V on, 21:36378
performance of lithium-drifted, effects of trapping on, 25:57798
performance of lithium-drifted, for americium and plutonium determination in lungs, organs, and wounds, 25:6533 (BNWL-SA-3397)
performance of lithium-drifted, for analysis of plutonium dioxide-containing radioactive wastes, 24:424
performance of lithium-drifted, for clinical radioisotope scanning, conditions and factors affecting, 25:13487
performance of lithium-drifted, for coincidence-anticoincidence gamma spectroscopy, 21:19937
performance of lithium-drifted, for detection of 80-MeV deuterons, 23:47762
performance of lithium-drifted, for detection of fission fragments in fallout, 23:19929 (CONF-680507-, pp 84-9)
performance of lithium-drifted, for determining purity of radioisotope preparations, 22:2411
performance of lithium-drifted, for gamma, 21:30091(R) (ANL-7210)
performance of lithium-drifted, for gamma detection, 24:44300
performance of lithium-drifted, for gamma polarization measurements, 24:50583
performance of lithium-drifted, for gamma spectroscopy, 23:22085
performance of lithium-drifted, for gamma spectroscopy, 23:19999
performance of lithium-drifted, for high-rate gamma spectroscopy, 23:33478 (EUR-4240)
performance of lithium-drifted, for high-resolution gamma spectroscopy, 22:37999 (UCRL-50437)
performance of lithium-drifted, for low-energy gamma spectroscopy, 25:10859
performance of lithium-drifted, for measurement of radioisotope content of organs in man, 24:39211 (BNWL-1178)
performance of lithium-drifted, for measurement of fuel rod average burnup, 25:57201
performance of lithium-drifted, for measurement of internal conversion coefficients, 24:20994
performance of lithium-drifted, for measurement of Doppler broadening of γ-rays, 25:31208
performance of lithium-drifted, for measuring fission-product gamma spectra, 21:17360
performance of lithium-drifted, for measuring gamma resonance energy and yields from proton reactions (p, γ) with aluminum-27, 23:19187
performance of lithium-drifted, for measuring gamma spectra of short-lived isomers in consecutive time intervals, 23:43587
performance of lithium-drifted, for measuring gamma spectra of cyclotron activated parts, 22:37986 (CONF-670545, pp 156-63)
performance of lithium-drifted, for measuring x ray spectra, 22:45314
performance of lithium-drifted, for plutonium-239 determination in phantom, 24:36559 (RFP-1488)
performance of lithium-drifted, for precise measurement of gamma sources, 24:39207 (IN-1317, pp 233-381)
performance of lithium-drifted, for relative measurements of gamma activity of radioisotopes, 25:26191
performance of lithium-drifted, for spectra measurements of fission fragments, 22:37987 (CONF-670545, pp 164-70)
performance of lithium-drifted, for ultra-high resolution singles and coincidence gamma spectroscopy, 23:678
performance of lithium-drifted, for use in activation analysis of rocks, 21:35868
performance of lithium-drifted, for whole-body counting, 24:44238 (BNWL-SA-3069)
performance of lithium-drifted, for x-ray spectroscopy, 22:38063 (CONF-670545-, pp 171-6)
performance of lithium-drifted, in activation analysis, 23:4559
performance of lithium-drifted, in activation and x-ray fluorescence analysis, 23:17744 (BLG-425, Paper 3)
performance of lithium-drifted, in high magnetic fields, 24:9646
performance of lithium-drifted, in sum-coincidence mode for gamma spectroscopy, Monte Carlo analysis of, 24:39345
performance of lithium-drifted, infrared techniques for evaluation of, 24:39239
performance of lithium-drifted, temperature dependence of, 21:17318(R) (AECL-2659)
performance of lithium-drifted, temperature dependence of, 21:33954(R) (AECL-2687)
performance of lithium-drifted, using field-effect-transistor preamplifiers, 21:27571 (MIT-2098-299, pp 66-73)
performance of lithium-drifted, with oxygen-16 (p,γ) reactions for measuring proton beam energy and energy spread and oxygen distribution in metals, 25:50266
performance of lithium-drifted, with sodium iodide detector for gamma spectroscopy, 23:14022 (CEA-CONF-1200)
performance of p—i—n, for measurement of fluence and flux density of low-energy gamma and x radiation, 25:57768
performance of planar lithium-drifted, for gamma polarization measurements, 24:33882
performance of small, with near perfect charge collection, 23:43541
performance of square lithium-drifted, for gamma angular correlations, geometric corrections to, 21:8598
performance of surface-barrier, at liquid helium temperatures, testing of, 24:14264
performance of thin-windowed, gallium ion implanted, for proton detection, 24:5888 (EUR-4269, pp 267-82)
performance of, effects of preamplifier noise and response on, 22:27534 (NBS-TN-421)
performance tests for lithium-drifted, for gamma spectroscopy, 23:41040 (EUR-4289, pp 171-8)
photofractions of lithium-drifted, Monte Carlo calculations of geometry effects on, 25:44674
photopeak analysis program for gamma spectrometers of lithium-drifted, 22:2405
photopeak count-rates in lithium-drifted, from gamma emitters formed by thermal neutron activation, table of calculated, 25:2474 (IAEA-122, pp 150-63)
photopeak, efficiency of lithium-drifted, determination of relative, 25:18747
positioning of lithium-drifted, for charged-particle detection, design of goniometer for, 24:2482
positions of poor resolution in lithium-drifted, use of collimated gamma radiation for determining, 22:38041
preamplifier for lithium-drifted, design and performance of high-resolution current, 25:51860
preamplifier for lithium-drifted, design of low-noise charge-sensitive, 21:36375
preamplifier for lithium-drifted, for coincidence measurements, high-speed low-noise FET, 22:51276(R) (IDO-17269)
preamplifier for lithium-drifted, low-noise charge, 22:49091
preamplifier for small capacity, design of, 22:47336
preamplifier for use with, low-noise charge-sensitive, (E), 22:5817(R) (NYO-GEN-72-28)
preamplifier for, design and performance of charge-sensitive, 24:4447
preamplifier for, design of high-resolution, 21:30705
preamplifiers for lithium-drifted, design of charge-sensitive FET, 21:28196 (AFWL-TR-67-39)
preamplifiers for lithium-drifted, design of stable 1 pF charge injection capacitors for charge-sensitive, 23:35495
preamplifiers for lithium-drifted, development of low-noise charge-sensitive, 22:10541 (MIT-952-4, pp 267-99)
preamplifiers for, design and performance of low-noise, 22:14755 (UCRL-18005)
preamplifiers for, design of charge-sensitive, low noise, FET, 22:28125
preparation and encapsulation of lithium-drifted, for detecting gamma rays, 22:38016(P)
preparation and performance of half-column p-i-n lithium-drifted, 22:19119
preparation and properties of low-capacitance lithium-drifted, 21:24212
preparation and selection of large-volume, problems in, 24:5877 (EUR-4269, pp 65-80)
preparation of electric contacts on lithium-drifted, 22:14798
preparation of gallium-ion-implanted lithium-drifted, for proton detection, 23:29179
preparation of gamma-compensated, research on, 25:23766 (BNL-15643)
preparation of high-purity germanium for, 22:6559 (CONF-660663-, pp 27-36)
preparation of high-purity germanium for, 25:42130
preparation of lithium-drifted, 25:55013
preparation of lithium-drifted, drift unit and control circuit for, 21:19936
preparation of lithium-drifted, materials problems in, 24:25290
preparation of lithium-drifted, methods development for, 22:35285(R) (AERE-PR/NP-13)
preparation of lithium-drifted, study of gallium- and indium-doped materials used in, 25:29330
preparation of p—i—n junction, 22:43028(R) (NYO-3870-1)
preparation of planar lithium-drifted, 23:26511 (IS-T-296)
preparation of room-temperature-stable, compensated by irradiation defects, 23:17752
preparation of stable, by compensation with radioinduced structural defects, 22:40386
production of lithium-drifted, methods development for, 22:32574 (MIT-2098-422, pp 95-105)
properties and uses of planar and coaxial lithium-drifted, in gamma spectroscopy, 21:24195 (PEL-135)
pulse analyzer for, operation and uses of VAS 4096 multichannel, 25:18674
pulse converters with error compensation for lithium-drifted, time-to-pulse height, 25:48974
pulse generator as reference for lithium-drifted, design and performance of solid-state double, 22:40440
pulse height defects due to electron interactions in dead layers of lithium-drifted, 23:33382 (ANL-7282, pp 188-209)
pulse height variations from lithium-drifted, 23:22018
pulse pile up rejection by comparison of shaped pulse with its second derivative, 25:48929
pulse pile-up in lithium-drifted, used in gamma spectroscopy, 23:19994
pulse rise-time rejection system for lithium-drifted, 23:24426 (IN-1218, pp 181-316)
pulse shape characteristics of lithium-drifted, use of collimated beam of gamma rays for studying, 23:26530
pulse shape discrimination method for lithium-drifted, used in coincidence gamma spectroscopy, 24:2484
pulse shape selection from large coaxial lithium-drifted, for measurement of nanosecond half-lives, 24:29551
pulse shapes from coaxial and planar lithium-drifted, 22:32512(R) (AECL-3108)
pulse shapes from coaxial lithium-drifted, current and electric charge, 22:19123
pulse shapes from lithium-drifted, risetime spectrometer for studying gamma-ray, 22:49109
pulse simulator for, 24:39207 (IN-1317, pp 233-381)
pulse time characteristics for γ—γ coincidences in lithium-drifted, 21:28240
pulse time measurements in coaxial lithium-drifted, 22:2372
pulse time measurements in lithium-drifted, in presence of noise, 21:1562 (AE-249)
pulse timing system for lithium-drifted, for gamma detection, 22:45311
pulse trigger with rise time correction for lithium-drifted, zero cross, 25:10830
pulse-height defect in gamma-detection lithium-drifted, effects of electron interactions in dead layers on, 22:317
pulse-height defect in lithium-drifted, from electron interactions in dead layer, 23:22023
pulse-height distributions for lithium-drifted, method for calculating, 21:36392
pulse-height distributions from lithium-drifted, used in gamma spectroscopy, method for calculating, 22:6617(T) (ORNL-tr-1816)
pulse-height distributions from lithium-drifted, use of on-line computer for transformation into energy peak area vectors of, 21:32471
pulse-height spectra of lithium-drifted, analog decomposition for resolving, 22:16861
pulse-shape distributions from gamma rays in lithium-drifted, 21:6223
pulses from coaxial lithium-drifted, calculation of shapes of, 21:45377
pulses from gamma irradiation of coaxial and planar lithium-drifted, pulse height, risetime, and spatial distributions of slow, 25:57818
pulses from lithium-drifted, calculation of charge and current, 25:10821
pulses from lithium-drifted, use of collimated gamma radiation for determining origin of slow rising, 22:38041
pulses from planar lithium-drifted, design of constant-fraction discriminator for timing, 22:36060
radiation damage in lithium-drifted, from fast neutron bombardment, 23:22147
radiation damage in, effects on generation—recombination noise, 23:22148
radiation damage to lithium-drifted, 23:19944
radiation defects in cold-doped, inhomogeneity effects on energy resolution from gamma, 25:21529
radiation effects on lithium-drifted, 40-MeV proton, 22:40400
radiation effects on lithium-drifted, fast neutron, 22:28264
radiation effects on performance of, gamma, 21:12740(R) (N-66-25000)
radioinduced generation—recombination noise in, γ ray and fast neutron, 23:22148
relaxation phenomena in planar lithium-drifted, 22:40397
resolution at high-counting rates of lithium-drifted, design and performance of dc restorer for obtaining, 21:32435
resolution at high-counting rates of lithium-drifted, design and performance of dc restorer for obtaining high, 21:32434
resolution for cross sections of proton coherent elastic scattering on helium-3 and -4 at 600 MeV, 25:46641
resolution of coaxial lithium-drifted, 23:16078 (CEA-CONF-1179)
resolution of lithium-drifted, 23:19939
resolution of lithium-drifted, 3.85-MeV gamma source for determining, 23:21986
resolution of lithium-drifted, angular correlation attenuation factors for determining, 23:7751
resolution of lithium-drifted, effects of crystal dislocation defects on, 25:37617
resolution of lithium-drifted, effects of depth of trapping centers on, 24:5875 (EUR-4269, pp 37-54)
resolution of lithium-drifted, Fano factor for, 21:19954
resolution of lithium-drifted, for gamma and x radiation, 25:42133
resolution of lithium-drifted, for gamma detection, effects of radiation source position on, 22:2341 (AECL-2764)
resolution of lithium-drifted, for gamma spectroscopy, optimization of, 25:29356 (RT/EL-(70)5)
resolution of lithium-drifted, for γ spectroscopy, energy dependence, 23:22021
resolution of lithium-drifted, in comparison with diffraction spectrometers for analysis of neutron-capture gamma rays, 23:47797
resolution of multiple arrays of lithium-drifted, 23:22080
resolution of planar and coaxial lithium-drifted, effects of depletion layer thickness, fast discriminator threshold, and noise sources on, 23:40987 (EUR-4289, pp 95-100)
resolution of RLC filter and, using pole-zero cancellation technique, 22:14884
resolution of, intrinsic, 22:40430
resolving power of lithium-drifted, for gamma-spectrometric identification of fallout nuclides in rainwater, 22:23314
resolving time of large coaxial lithium-drifted, coincidence, 25:48926
response characteristics of cylindrical lithium-drifted, Monte Carlo calculation of, 24:14257
response characteristics of cylindrical lithium-drifted, Monte Carlo calculations of, 24:20997
response characteristics of lithium-drifted, for gamma detection at 0.1 to 2 MeV, 23:26549
response characteristics of, to gamma radiation, 21:17887
response function of coaxial lithium-drifted, for gamma rays at 2.23 to 10.83 MeV, 21:24223

response functions for large coaxial lithium-drifted, for gamma spectroscopy, 22:25666
response of lithium-drifted, to 46.5-keV gamma ray from lead-210, 25:15878 (ANL-7760(Pt.1), pp 28-32)
response of shielded lithium-drifted, for fast and thermal neutrons, 24:2466
response to 80-MeV deuterons, 25:10851 (NP-18570)
response to monoenergetic gamma rays below 1 MeV, (T), 22:37281(R) (NYO-72-191)
reworking of lithium-drifted, 22:42019(R) (MLM-1494)
selection of lithium-drifted, for gamma spectroscopy, 21:39237
sensitive volume position in lithium-drifted, use of collimated gamma radiation for determining, 22:38041
sensitivities for lithium-drifted, figure-of-merit measurements of, 25:42126
sensitivity of lithium-drifted, for gamma polarization measurements, 23:35501
sensitivity of lithium-drifted, for gamma spectroscopy, factors determining, 24:31726
sensitivity of lithium-drifted, for gamma spectroscopy, factors determining, 24:33928
sensitivity of planar and coaxial lithium-drifted, calculated figure of merit for gamma ray, 25:48978
shielding for lithium-drifted, with californium-252 source for neutron capture gamma spectroscopy, 25:8537
signal parameters for lithium-drifted, maximum likelihood method for estimating, 24:39314
spectra data from lithium-drifted, line shape analysis of gamma, 23:16145
spectra peak areas for activation analysis and γ spectrometry using lithium-drifted, computation of, 22:40013
spectra processing for lithium-drifted, for gamma spectroscopy, peak finding method for, 25:6555
spectral data from lithium-drifted, improvement in peak-to-background ratio for analysis of, 21:39218
spectrum degradation effects in lithium drifted, 24:22991 (UCRL-72109)
stabilization of lithium-drifted, heat-sink control for, 23:663
surface channels on lithium-drifted, effects on electron and x-ray spectra of, 25:57797
surface preparation for obtaining good current-voltage characteristics on lithium-drifted, 22:40402
surface states in, use of calcium fluoride vacuum deposition technique for compensating, 21:36379
testing of encapsulated lithium-drifted, in liquid nitrogen, assembly for, 25:57800
testing of lithium-drifted, high-energy gamma source for, 25:15931(P)
testing of lithium-drifted, source of 3.85-MeV gamma rays for, 23:29163
time characteristics of lithium-drifted, computer programs for calculating, 25:55001 (NP-19011)
time resolution improvement of lithium-drifted, used in coincidence measurements, 22:36057
time resolution of lithium-drifted, 25:29353 (JINR-P13-5708)
time resolution of lithium-drifted, 21:27574(R) (NYO-GEN-72-132)
time resolution of lithium-drifted, (E/T), 24:46471 (LYCEN-7023)
time resolution of lithium-drifted, circuits for improving, 23:21950
time resolution of lithium-drifted, effect of noise sources on, 24:4434
time resolution of lithium-drifted, for gamma detection, 23:50158
time resolution of lithium-drifted, for gamma detection, 22:4427 (LYCEN-6766)
time resolution of lithium-drifted, temperature dependence of, 23:22012
time resolution of planar lithium-drifted, in gamma—gamma coincidence measurements, 22:28089
timing characteristics of coaxial lithium-drifted, (T), 25:51868
timing characteristics of lithium-drifted, for coincidence experiments, use of collimated gamma radiation for determining, 22:38041
timing circuit for lithium-drifted, for spectrum broadening compensation, 24:4465
timing circuits for lithium-drifted, leading edge, 22:40407
timing performance of lithium-drifted, 25:39723
timing properties of lithium-drifted, for gamma spectroscopy, 22:43078
use as gamma spectrometers, review of, 21:32378(T) (AEC-tr-6719, pp 64-70)
use in computer-controlled bistabilized 4096-channel system, 21:3279
use in dE/dx telescope configuration for detection of charged particles at 1 to 60 MeV, 22:28086
use in gamma spectrometer for activation analysis, 23:11837
use in radiobiology and medicine, review of, 22:47344
use of array of lithium-drifted, for gamma spectroscopy for space applications, 22:38112
use of gamma lithium-drifted, for separation of isotopic interferences in neutron activation analysis, 21:5798
use of lithium-drifted, 22:14801
use of lithium-drifted, 22:14831
use of lithium-drifted for measuring short nuclear lifetimes, 22:14803
use of lithium-drifted, as pilot for thallium-activated sodium iodide detectors for gamma spectroscopy, 23:2634
use of lithium-drifted, for determining isotopic composition of plutonium samples, 21:45343 (BNWL-481-4, pp 42-5)
use of lithium-drifted, for Doppler broadening of radiation from electron pair annihilation, 21:18883
use of lithium-drifted, for gamma spectroscopy, computer method for peak area determinations for, 23:7778 (UCRL-71210)
use of lithium-drifted, for identifying fission gases in in-pile loop, 23:6308
use of lithium-drifted, for isotopic analysis of plutonium-fueled capsules, 21:36365
use of lithium-drifted, for measuring gamma spectra from beta and electron-capture decay of copper-61 and thallium-200, 21:39183 (LYCEN-67-45)
use of lithium-drifted, for measuring gamma-production cross sections for neutron reactions with iron, nitrogen, and oxygen, 23:3872
use of lithium-drifted, for measuring lifetimes of nanosecond isomeric states, 22:28097
use of lithium-drifted, for measuring reactor parameters, 21:43236
use of lithium-drifted, for measuring trace elements in biological samples, 21:36585
use of lithium-drifted, for neutron resonance measurements, 23:1830
use of lithium-drifted, for process control in separation of thorium isotopes from uranium isotopes, 21:40959(R) (MLM-1399)
use of lithium-drifted, in activation analysis, 23:24460
use of lithium-drifted, in anti-Compton gamma spectrometer, 22:40442
use of lithium-drifted, in Compton gamma spectrometers, 23:22067
use of lithium-drifted, in Compton gamma spectrometer, 22:357
use of lithium-drifted, in determining behavior of complex mixtures of radionuclides in environmental and biological systems, 21:36368
use of lithium-drifted, in gamma pair spectrometer operating in anti-Compton regime, 23:6302 (CEA-R-3562)
use of lithium-drifted, in gamma-/x-ray scattering facility, 21:19907 (USNRDL-TR-67-14)
use of lithium-drifted, in low-level gamma spectrometer, 23:679
use of lithium-drifted, in multimode gamma spectrometer, 23:726
use of lithium-drifted, in pair spectrometer, 23:11819 (PINSTECH/PHY-13)
use of lithium-drifted, in radioecology studies following Chinese nuclear test of December 28, 1966, 21:39375 (UCRL-70301)
use of lithium-drifted, in two-crystal pair gamma spectrometers, 22:10585
use of lithium-drifted, in x-ray fluorescence analysis, radioisotope source—target assembly for, 23:659
use of lithium-drifted, with 7.7-m bent-crystal spectrometer for gamma spectroscopy, 21:14421 (ANL-7029, pp 4-8)
use of lithium-drifted, with bent crystal gamma spectrometer, 22:28153
use of lithium-drifted, with silicon detectors for α-γ angular correlation measurements, 21:16192
use of lithium-drifted, with thallium-activated sodium iodide detectors in pair and escape-suppressed gamma spectrometers, 23:689
use of two separate coaxial lithium-drifted, in high-efficiency gamma spectrometer, 23:35507
use with sodium iodide scintillation detectors for gamma spectroscopy, 21:32403
uses of lithium-drifted, for chemical analysis, survey of, 23:19942
uses of lithium-drifted, in science, technology, medicine, and industry, conference on, 23:17742 (BLG-425)
uses of lithium-drifted, review of, 23:17784 (BLG-425, Paper 4)
window transparency of lithium-drifted, measurement of, 24:44242 (CEA-N-1320)
x-ray escape peaks of lithium-drifted, used for detection of gamma radiation at 40 to 411 keV, 23:21961
x-ray sensitivity of lithium-drifted, effects of cooling input stage of preamplifier on, 21:41216

RADIATION DETECTORS, SEMICONDUCTOR (SILICON)
alpha reactions with lithium-drifted, at 33.6 MeV, 25:6549
alpha-particle channeling in, 21:43262
amplifers for satellite-borne, circuits for low-power charge-sensitive FET, 25:57821
amplifier and pulse analyzer for, used in alpha and proton spectroscopy on lunar surface, 22:12599
amplifier for, design of linear pulse, 21:16103 (CLOR-60/D)
amplifier for, direct coupled low noise time pickoff, 25:25724(R) (RLO-1388-121)
amplifiers for space applications of, design and performance of charge-sensitive, 25:57792
amplifiers for, design and performance of charge-sensitive, 23:11802
amplifiers for, development of parametric, 21:22188 (BNL-994, pp 37-44)
amplifiers for, simultaneous connection of fast and slow, 21:34515 (ORNL-4091, pp 1-14)
back contact for totally depleted surface barrier, noninjecting, 25:48940
back contacts for, method for preparing noninjecting, 21:36389
calculation of constants for telescope, for particle identification, 25:18705
calibration and determination of basic parameters of, use of alpha sources for, 21:32391
calibration for fission fragment detection, method of corresponding points for absolute energetic, 23:43591
calibration of Maxon—Rae, for neutron-capture cross-section measurements, 25:57789
calibration of Moxon—Rae, in current mode for neutron capture cross section measurements, 25:29326 (LA-4445)
calibration of satellite-borne telescopic system for proton and electron detection, 22:23293
calibration of telescopes of, use of gallium arsenide light source for, 21:6284
calibration of, for energy measurements of fission fragments, 21:16170
calibration of, used for x-ray detection, 22:14754 (UCID-15277)
calibration systems for satellite-borne, 24:39251
capacitance characteristics of lithium-drifted p—i—n, measurement of, 25:57802
capacitance—voltage characteristics of lithium-drifted, cooled FET input measurement of, 24:29499
carrier recombination and trapping in junction, effects on resolution of, 24:4457
carrier trapping and detrapping effects in lithium-drifted, quantitative analysis of, 24:29504
characteristics for use in clinical environments for dosimetry, 25:57743
characteristics of, 25:8523
characteristics of avalanche, for low-energy x-ray spectroscopy, 25:57771
characteristics of boron ion implanted n-type, 24:39240
characteristics of lithium-drifted, 24:19200 (INR-1135)
characteristics of surface-barrier, operating in avalanche region, 24:41664
characteristics of, calculation of, 25:57762
characteristics of, research on, 25:17294(R) (NBS-TN-560)
charge carrier drift velocities at 77 to 300°K, measurement of, 23:22010
charge carrier trapping and detrapping effects in lithium-drifted, 24:39298
charge collection efficiency of lithium-drifted, for detection of x radiation, 22:28087
charge collection efficiency of lithium-drifted, for detection of x radiation, 23:26504 (AD-677011)
charge collection for strongly ionizing particles with plasma effect, (E/T), 24:46475 (UUIP-711)
charge collection in alpha and beta detection, effects of size of space-charge region on, 21:41210
charge collection in drifted, with inhomogeneous distribution of electric field, 23:19975
charge collection process in drifted, with inhomogeneous electric field, 23:50115 (INR-972)
charge conversion function linearity for cooled lithium-drifted, in response to low-energy gamma ray and x ray excitation, 21:32467
charge gain in, using avalanche mechanism, 23:22030
charge-carrier trapping and detrapping in lithium-drifted, at 8.5 to 70 K, 23:41027
charged particle-induced nuclear reactions in, (E), 23:10936(R) (COO-535-591)
charged-particle energy loss, range, and stopping power in, 22:16859 (CEA-R-3371)
charged-particle energy losses in, calculations using ELSA computer program, (T), 21:46643(R) (ORNL-4134)
charged-particle energy-loss distributions in, heavy, (E), 21:278 (UCRL-16931)
charged-particle identification in ΔE/E, computer system for, 24:11795
charged-particle spectra in, analysis of, 23:11789
charged-particle straggling in, distribution functions for, 24:11795
circuit for proton—alpha discrimination for surface-barrier, biased routing, 24:36592
circuits for hodoscope of surface-barrier, for data recording and processing, 24:33878
circuits for surface-barrier, for half-life measurements of alpha emitters in ms range, 25:18703
coincidence circuits for satellite-borne, 25:57821
Compton effect reduction in, for higher resolution gamma- and x-ray detection, 21:17892(P)
conduction channel formation in homogeneous, 22:14806
conference on, 23:22003
conference on materials and fabrication techniques for, 24:5871 (EUR-4269)
conversion of photon lithium-drifted, for electron spectroscopy, 25:42123
cooling and warming system for lithium-drifted, for charged-particle detection, 24:48277
cooling system for lithium-drifted, 21:34472 (ORNL-4091, pp 38-48)
cryostat for, design of standardized, 21:43273
cryostat system for nonencapsulated lithium-drifted, mechanical design of, 21:39215
current leakage and noises in, 21:16184
current pulses showing plasma effects in, effects of trapping on, 24:46474 (UUIP-710)
current—voltage characteristics of surface-barrier, 22:47322 (UUIP-597)
currents in surface-barrier, surface effects on reverse, 25:34897
data acquisition system for telescope, for particle identification, 25:6537 (LYCEN-7049)
data from lithium-drifted, cross-correlation techniques for analysis of, 23:33489
data recording system for neutron cross section measurements with nuclear explosion source, 24:44271
defects of p-n junction in p-i-n, detection of, 22:10552
description and operating parameters of photoelectronic, 21:24201
description and performance of p-n junction, for dosimetry of gamma and x radiation, 21:1653
description of avalanche, for high gamma intensities, 21:1634
description of catheter-type p—n, for diagnosis of malignant tumors, 24:31700
description of catheter-type p—n, for diagnosis of malignant tumors, 24:31699
description of cryostat, electronics, and vacuum system for, for beta spectroscopy, 25:42112
description of lithium-drifted, for x-ray spectroscopy, 24:14256
description of p-i-n and lithium-drifted, 22:21318 (UCRL-50176)
description of small coaxial p—n, for dose-rate measurements during intracavitary irradiation, 23:16096
description of surface-barrier, for alpha activity measurements, 24:19224
description of three-electrode surface-barrier, for alpha detection, 22:23297

description of, for gamma-ray and particle spectroscopy, 22:38061 (CONF-670545-, pp 116-25)
design and characteristics of miniature needle-type lithium-drifted, for measurements of trace activity in vivo, 25:57744
design and fabrication of, 22:16877
design and fabrication of lithium-drifted, in shape of spherical segment for use in cosmic-ray telescopes, 23:16115
design and fabrication of photodiode, 21:17820(R) (UCRL-13272)
design and operation of diffused-junction, for detecting cosmic electrons, 23:6284 (LA-DC-9627)
design and operation of lithium-drifted, for dosimetry and monitoring, 24:7625 (AECL-3455)
design and operation of matrix of lithium-drifted, for radioisotope localization, 23:21973
design and performance as neutron monitor for (n,p) and (n,α) reactions at 4 to 8 MeV, 21:28229
design and performance for absolute gamma dosimetry, 25:18806
design and performance for high-resolution proton spectroscopy, 22:352
design and performance in multi-detector spectrometer system for internal conversion coefficient measurements, 24:2486
design and performance of 4π lithium-drifted, for beta spectroscopy, 21:45430
design and performance of avalanche-type, for gamma detection, 23:2589
design and performance of boron and phosphorus ion-implanted, 25:15888
design and performance of cylindrical surface-barrier, for beta spectroscopy, 24:11813
design and performance of electron—gamma and electron—electron coincidence spectrometers using, 21:28233
design and performance of gold-coated surface-barrier, 22:23277
design and performance of guard-ring diode, for spectroscopy of low-energy radiation at room temperature, 24:11791
design and performance of helium-3 or lithium-6 sandwich, for fast neutron spectroscopy, 24:25295 (KURRI-TR-67)
design and performance of lithium-drifted, 22:51238
design and performance of lithium-drifted, 25:8546 (LYCEN-6847)
design and performance of lithium-drifted, for 4π beta spectroscopy, 23:38298 (RISO-195)
design and performance of lithium-drifted, for 4π beta spectroscopy, 23:17790
design and performance of lithium-drifted, for beta spectroscopy, 21:39209
design and performance of lithium-drifted, for fast-neutron dosimetry, 21:32488
design and performance of lithium-drifted, for in-core Compton-recoil gamma spectroscopy, 24:44306
design and performance of lithium-drifted, for photoproton spectroscopy, 23:29212
design and performance of lithium-drifted, for photoproton angular distribution and photoneutron—photoproton coincidence measurements, 25:48985
design and performance of lithium-drifted, for proton spectroscopy on-board satellite, 24:4467
design and performance of lithium-drifted, for use in x-ray fluorescence analysis, 21:34475 (UCRL-16845)
design and performance of miniature lithium-drifted, for gamma and x-ray dosimetry, 23:11886
design and performance of p-n junction, for operating at high temperatures, 22:38033
design and performance of phosphorus-diffused, for fast neutrons, 22:314
design and performance of position sensitive, using ion implantation, 22:14789
design and performance of position-sensitive lithium-drifted, 22:45337(R) (NYO-3510-5)
design and performance of position-sensitive, for use with magnetic charged-particle spectrometer, 25:8474 (JUL-CONF-4, pp 48-58)
design and performance of proportional counter—semiconductor telescope, for alpha spectroscopy for (n, α) reactions at 14 MeV, 25:44673
design and performance of surface-barrier lithium-drifted, with evaporated guard ring, 24:9651
design and performance of surface-barrier, for beta spectroscopy, 23:685
design and performance of surface-barrier, for beta particles and gamma radiation, 21:6231
design and performance of surface-barrier, for detection of relativistic charged particles, 23:33410
design and performance of surface-barrier, for measuring spectra of internal conversion electrons, 23:7758
design and performance of surface-barrier, for planar distribution measurements of low-energy beta sources, 25:57769
design and performance of surface-barrier—lithium-drifted telescope, for beta spectroscopy, 25:18760
design and performance of telescope of lithium-drifted, for identification of high-energy particles, 24:11845
design and performance of transverse-field lithium drifted, 24:39303
design and performance of, as integrating gamma-ray dosimeter, 21:12624(R) (AD-641654)
design and performance of, as satellite-borne spectrometers for space radiation experimentation, 21:16194
design and performance of, for aerospace applications, 21:8587
design and performance with fission foil for in-core neutron flux monitoring, 25:4353
design and resolution of, for alpha and beta spectroscopy, 22:2404 (RT/EL-(67)4)
design and testing of helium-3-sandwiched, for neutron spectroscopy in critical assemblies, 22:47360 (IITRI-578-P-31-2)
design and uses of lithium-drifted, for spectroscopy, 24:25275
design criteria for radiation-resistant, for neutron detection, 25:57746
design for α and neutron detection in Transuranium Processing Plant, engineering drawings for; 21:32424
design for charged particle detection, 23:14005(P)
design for charged particles, engineering drawings for, 23:47746
design for detection of secondary electrons in field emission scanning microscope, 24:11789
design for fast neutron dosimetry, 22:36113(P)
design for fast neutron dosimetry, 23:20021(P)
design for in vivo dosimetry, 22:30872(P)
design for measurement of gamma and x-ray dose rates, 25:46643 (INR-P-1304)
design for monitoring solutions containing α particles, engineering drawings for, 21:36397
design for neutron spectrometer based on neutron decay, 23:9732
design for plutonium monitoring in air, engineering drawings for, 21:19972
design for use in alpha-gamma coincidence spectrometer, 23:31533
design of 12-channel array of lithium-drifted, for NBS electron scattering spectrometer, 22:40446
design of avalanche, for in vivo detection of low energy radioisotopes, 25:57770
design of high-voltage lithium-drifted, using shelf structure, 23:22015
design of lithium-drifted, for conversion-electron and x-ray spectroscopy, 22:19134 (JINR-P13-3718)
design of lithium-drifted, for detecting charged particles, 22:47339(P)
design of lithium-drifted, for x ray detection, 22:33649
design of lithium-drifted, for x-ray spectroscopy, 24:15822
design of lithium-drifted, with gamma source for x-ray fluorescence scanning of thyroid gland, 23:33446
design of low-temperature p—n junction, for fast neutron dosimetry, 25:8565(P)
design of miniature p—n junction, for in vivo measurements, 22:45337(R) (NYO-3510-5)
design of MOS, based on measurement of integrated current from post-irradiation heating for dosimetry, 25:35036(P)
design of p—n junction, for small area contamination monitoring, 24:19203 (RD/B/N-1576)
design of portable p—i—n, for radiation and light monitoring, 23:21971
design of position sensitive, nomogram for, 24:11818
design of position-sensitive, 24:48289(P)
design of position-sensitive surface barrier, 23:41020
design of position-sensitive with secondary emission foil, for relativistic charged particles, 25:26513
design of position-sensitive, for low-energy electrons, 22:28083
design of position-sensitive, with durable resistive films, 25:23822(P)
design of rocket-borne, for measuring spectra and angular distribution of protons in auroral zone, 25:13227
design of surface-barrier, for radon daughter equilibrium measurements in uranium mines, 23:31519 (UCRL-50007-68-3, pp 34-8)
design of system for Surveyor V for alpha-backscatter measurements on lunar surface, 22:14793
design of telescope of, for neutron reactions, 25:48989
design of thin-window drifted, for detection of charged particles, 23:13998(P)
design of thin-window surface-barrier, 25:8498(P)
design of X—Y position-sensitive, 21:43265
design using proton-recoil radiator for fast neutron flux measurements, 24:48262 (EURFNR-805)
design with superconducting focusing lens for electron spectroscopy, 25:10864
deuteron reactions with lithium-drifted, at 17 MeV, 25:6549
development and performance of lithium-drifted, for low-energy x-ray spectrometry, 25:57816
development and research on lithium-drifted, 24:27347 (N-69-19670)
development and uses of, survey of, 23:11803
development for beta and gamma detection for biological and medical applications, 23:22038
development for dosimetry, 24:48333
development for fast neutron dosimetry, 23:20009 (CONF-680507-, pp 257-62)
development for high-energy particles, 21:24231(P)
development for nuclear physics research, 22:14763
development for x-ray fluorescence spectroscopy, 25:51856 (LBL-9)
development of arrays of avalanche-type, 22:40389
development of avalanche, for biomedical use, 24:39301
development of avalanche, for low-level in vivo measurement of plutonium, 25:29327(R) (NYO-3246-TA-8)
development of avalanche-type, 24:50551 (NYO-3246-TA-7)
development of catheter-type, for medical use, 22:33645
development of combined time-of-flight and telescope system of phosphorus-diffused, for identification of nuclear fragments, 25:10860
development of compact, with lithium-6 foil for personnel neutron dosimetry, 25:15951 (RFP-794)
development of high-resistivity surface-barrier, for charged-particle spectroscopy, 23:17103(R) (ANL-7481)
development of high-resolution surface-barrier, 24:31711
development of large-area surface-barrier, for alpha spectroscopy, 23:11812
development of lithium-drifted, 21:43242
development of lithium-drifted high-voltage, 21:29969(R) (UCRL-17299)
development of lithium-drifted, for Compton-recoil gamma spectroscopy, 24:31731
development of lithium-drifted, for gamma-ray spectroscopy, 21:45341 (BNWL-481-4, pp 39-40)
development of lithium-drifted, for x-ray spectroscopy, 25:10812 (CEA-N-1401)
development of lithium-drifted, for x-ray spectroscopy, 24:44239 (CEA-CONF-1541)
development of lithium-drifted, with groove configuration, 23:19253(R) (ORO-2972-80)
development of miniaturized, for measurements in vivo, 25:57745
development of p-i-n junction, for radiation dosimetry, 21:13296 (CEA-R-3061)
development of phosphorus-diffused, for heavy ion in high radiation fields, 24:36583
development of position-sensitive array of, using scanning electron beam readout, 24:39304
development of sandwich, for simultaneous alpha and beta detection, 25:41833(R) (IA-1218)
development of surface-barrier, for fast neutron flux die-away measurements, 23:13183 (RPI-328-142, pp 68-116)
development of surface-barrier, for fissionable material determination by alpha detection, 24:39207 (IN-1317, pp 233-381)
development of totally depleted dE/dx, for β and γ dosimetry and α, β, and fast neutron detection, 21:45334 (AECL-2766)
development of totally depleted diffused junction, for monitoring nitrogen-16 in power reactor coolant, 24:39270
development of totally depleted surface-barrier, for particle identification by energy-loss measurements, 23:17107(R) (OU-LNS-68-1)
development of, for fast neutron personnel dosimetry, 22:38099 (CONF-670545, pp 217-27)
efficiency and resolution of lithium-drifted, 23:44849(R) (IN-1130)
efficiency calibration for 1- to 100-keV x radiation from radioactive sources, 25:18715
efficiency calibration of lithium-drifted, for low-energy photon spectroscopy, 25:39743
efficiency curves for electrons and γ rays in, absolute, (E), 25:12477
efficiency for beta spectroscopy of carbon-14 and sulfur-35, 23:31539 (CLOR-72)
efficiency for protons at 5 to 150 MeV, corrections for nuclear reactions, (E/T), 22:13927(R) (USC-136-132)
efficiency for protons, nuclear reaction correction for, 22:14796
efficiency of avalanche-type, for detection of electrons at 5 to 40 keV, 23:19935(R) (NYO-3246-TA-4)
efficiency of avalanche-type, for tritium counting, 22:19097(R) (NYO-3246-TA-1)
efficiency of lithium-doped, geometrical, for tracer studies of blood flow in renal tissues, 22:14757
efficiency of lithium-drifted, at 5 to 170 keV, determination of photopeak, 25:42123
efficiency of lithium-drifted, for gamma and x radiation, 25:42133
efficiency of surface-barrier, for detection of 2.5-MeV neutrons from deuteron (d,n) reactions with deuterium, associate particle method for determining, 23:29176
efficiency of, for neutron spectroscopy, 22:36090
efficiency of, for x-ray detection, 22:40430
electric field distribution in drift region of p—i—n, (E), 21:315
electric field distribution in lithium-drifted, 24:36584
electric field profile in lithium-drifted, 23:26535
electric properties of p—n junction, for x-ray spectroscopy, 23:38310
electron drift velocity in lithium-drifted, 23:26535
electron scattering from, at 50 to 625 keV, 22:25647
electron-hole pair formation by alpha particles in lithium-drifted, energy-gap and temperature dependence of average, 25:57788
electronic equipment for, application of Harwell 2000 series, 21:22125 (AERE-M-1832)
energy per electron-hole pair in p-type, use of 5-MeV alpha particles for determining average, 21:3294
energy resolution of lithium-drifted, for 10- to 100-MeV particles, 21:36349 (UCRL-17556)
energy resolution of p-n junction diffused, generation-recombination noise effects on, 21:8611
energy resolution of surface-barrier, for alpha particles, effects of etching methods on, 24:14265
energy response of, for detection of fission fragments, 21:17863
fabrication and evaluation of gold-doped, for gamma transient detection, 21:17820(R) (UCRL-13272)
fabrication and evaluation of p-i-n, for gamma transient detection, 21:17820(R) (UCRL-13272)
fabrication and performance of boron and phosphorus ion-implanted, 24:5885 (EUR-4269, pp 193-220)
fabrication and performance of cooled transmission-type surface-barrier, for nuclear spectroscopy, 25:23833 (BMBW-FBK-70-27)
fabrication and performance of cylindrical surface-barrier, for six-gap orange beta spectrometer, 24:36590
fabrication and performance of gold surface-barrier, 24:44237 (BARC-456)
fabrication and performance of large area position-sensitive phosphorus ion-implanted, 24:5886 (EUR-4269, pp 221-8)
fabrication and performance of lithium-drifted, for beta—conversion electron coincidence measurements, 23:9701
fabrication and performance of lithium-drifted, for spectroscopy of electrons and low-energy gamma rays, 22:4457 (MLM-1351)
fabrication and performance of n-type, 21:280
fabrication and performance of small diffused, for medical and biological uses, 25:8464 (BMBW-FBK-70-15)
fabrication and performance of surface-barrier, 23:47742
fabrication and performance of surface-barrier, for x-ray spectroscopy, 22:21344
fabrication and performance of surface-barrier, for spectroscopy, 22:4457 (MLM-1351)
fabrication and properties of, 24:16833 (OU-LNS-69-5)

fabrication and resolution of lithium-drifted, for low-energy x-ray and gamma-ray spectroscopy, 23:29207 (N-69-19828)
fabrication and testing of boron-implanted, for nuclear spectroscopy, 25:57809
fabrication and testing of oxide-passivated p-n, 21:28251
fabrication and testing of small rod-shaped, for medical applications, 25:57808
fabrication and testing of surface-barrier, 21:3238 (BMwF-FBK-66-24)
fabrication and tests of ion-implanted, for charged-particle detection, 25:57749
fabrication and use of, for detection of ionizing radiations, 21:17825
fabrication and uses of, 21:16148(T) (AD-644024)
fabrication and uses of, 22:37982 (CONF-670545, pp 96-106)
fabrication by boron and phosphorus ion-implantation, 22:323
fabrication by ion implantation, 25:8484(P)
fabrication for beta spectroscopy, review of, 22:47368
fabrication of coaxial lithium-drifted, 24:20978 (BNL-14168)
fabrication of coaxial lithium-drifted, for gamma spectroscopy, 24:39297
fabrication of convex-shaped surface-barrier, for use in electrostatic precipitators for alpha detection in air, 22:4423 (CLOR-65/D)
fabrication of dE/dx boron- and phosphorus-implanted, 25:6534 (CEA-CONF-1642)
fabrication of high quality, by low energy implantation of boron and phosphorus ions, 21:28223
fabrication of high resolution surface barrier, for conversion-electron studies, 23:17756
fabrication of high-resolution, for alpha and beta spectroscopy, 22:2403 (RT/EL-(67)1)
fabrication of ion-doped, 22:40387
fabrication of large area surface-barrier, at low temperatures, 25:2452
fabrication of large volume lithium-drifted, 21:12631(R) (N-66-24954)
fabrication of lithium-diffused p—n junction, for fast neutron dosimetry, 24:22995(P)
fabrication of lithium-doped p—i—n and surface-barrier, 22:23264 (CEA-R-3419)
fabrication of lithium-drifted, 21:17891(P)
fabrication of lithium-drifted, 22:10555
fabrication of lithium-drifted, 22:19107
fabrication of lithium-drifted, 25:26457 (CNEA-287)
fabrication of lithium-drifted, 25:8546 (LYCEN-6847)
fabrication of lithium-drifted, 22:11949(R) (ORO-2972-47)
fabrication of lithium-drifted, bibliography on, 22:28062 (CEA-Bib-90)
fabrication of lithium-drifted, effects and control of surface states during, 24:14249 (UCRL-19413)
fabrication of lithium-drifted, for beta detection, 22:47328
fabrication of lithium-drifted, method for, 22:10556
fabrication of lithium-drifted, methods development for, 22:9800(R) (COO-535-571)
fabrication of lithium-drifted, stabilized power supply for, 23:9696 (CEA-R-3631)
fabrication of lithium-drifted, technological aspects of industrial, 21:39221
fabrication of lithium-drifted, time dependence of coaxial drift process for, 21:7355
fabrication of lithium-implanted, 25:6534 (CEA-CONF-1642)
fabrication of miniature lithium-drifted, 22:43057
fabrication of n-i-p, by ion implantation, 25:373
fabrication of n-type, 23:26533(P)
fabrication of n-type, by boron in implantation, 25:39737 (NP-18897)
fabrication of p—n, lithium ion implantation method for, 23:17770
fabrication of p-type, 21:19975(P)
fabrication of position-sensitive, 25:34896
fabrication of position-sensitive boron- and phosphorus-doped, 22:40388
fabrication of spherical, 21:30867(R) (N-67-11985)
fabrication of surface-barrier, 23:2574
fabrication of surface-barrier, 25:23763 (BARC-527)
fabrication of surface-barrier, 25:23796
fabrication of surface-barrier, 25:29332
fabrication of surface-barrier ΔE, 25:54998 (JINR-P13-5970)
fabrication of surface-barrier p-type, for alpha particle detection, 22:19124
fabrication of surface-barrier p-type, for alpha particle detection, 22:14805
fabrication of surface-barrier, for detecting charged particles, 23:4815
fabrication of surface-barrier, from p-type silicon, 21:17848
fabrication of surface-barrier, operating in avalanche region for x-ray spectroscopy, 24:2469
fabrication of thick lithium-drifted, for nuclear physics experiments at Univ. of Colorado cyclotron, 22:320
fabrication of, effects of surface preparation on ohmic contacts between evaporated aluminum and n-type silicon in, 25:46623
fabrication of, neutron transmutation methods for, 21:23908 (BNL-50042)
fabrication of, review on, 24:11763 (BARC-443)
fabrication of, testing and evaluation of crystals for, 22:38034
fabrication of, use of neutron transmutation doping for, 21:26151(R) (NYO-3124-2)
fabrication techniques for, conference on, 24:5871 (EUR-4269)
Fano factor for, (E/T), 24:39296
Fano factor for, (E/T), 24:50544 (AD-707095)
Fano factor in, 22:40385
Fano factor measurement using low-energy photons, 24:5907
Fano factor of lithium-drifted, calculation of, 24:33877
Fano factor of surface-barrier, at 90°K, 24:29511
gain uniformity in avalanche-type, 23:19935(R) (NYO-3246-TA-4)
gamma spectral line broadening in, at 0.2 to 2.5 MeV, energy dependence of, 22:10577 (SGAE-PH-55/1967)
helium-3 reactions with lithium-drifted, at 40.7 MeV, 25:6549
impurities concentration in, radial profile of, 24:39247
iodine-127 channeling in, 21:31834(R) (ORNL-4082)
ion reactions in, low-energy positive, (E/T), 22:22202 (NYO-2962-6, pp 55-62)
ionization energy measurements as function of temperature in lithium-drifted, for alpha particles, electrons, and gamma radiation, 22:14809
ionization fluctuations and resolution of, calculation of Fano factor for determining, 21:10659
linear absorption coefficients for photon interactions in, 25:42133
lithium drifting of, method for controlling, 21:17831
magnetic selector for electron spectra measurements with, 23:47794
manufacturing process for surface-barrier, 25:26456 (ANU-P-516)
materials for, conference on properties of, 24:5871 (EUR-4269)
meson (π^+) and (π^-) dose distribution at 65 MeV in, 22:49127 (ORO-3343-2)
neutron reactions (n,α) and (n,p) at 12.80 to 16.24 MeV, excitation functions and spectra from, (E), 25:45978
nuclear reactions in, pulse-height shifts caused by, (E), 21:36390
operation characteristics of, for gamma spectroscopy, 23:19991
operation of contoured lithium-drifted, at high voltage, 22:49085
operation of large area surface-barrier, at low temperatures, 25:2452
operation of lithium-drifted, at 60°C, 22:43064
operation of lithium-drifted, at high voltage using shelf structure, 21:36350 (UCRL-17557)
operation of lithium-drifted, effects of long-term storage under ambient temperature conditions on, 22:43064
operational principles and physical properties of, 22:37976 (CONF-670545-, pp 7-16)
optical characteristics of lithium-drifted, 21:3268
peak-to-tail ratio of lithium-drifted, for protons, deuterons, helium-3, and alpha particles, 25:25629(R) (UCD-CNL-125)
performance evaluation, 21:8630 (MIT-952-3, pp 349-402)
performance for detection of pulsed gamma rays, 23:11769
performance for dosimetry of negative pion beams, 23:8002 (UCRL-18066, pp 108-22)
performance for double-scattering proton polarization measurements, 24:44277
performance for fast neutron dosimetry, 23:9755 (AE-339)
performance for fast neutron dosimetry in phantoms, based on electric conductivity change, 25:51905
performance for fission fragment energy distribution measurements, 25:42048 (ANL-7710, pp 263-364)
performance for gamma dosimetry, 25:57850
performance for γ transmission scanning, for measurement of antimony content of human lungs using iodine-125 source, 25:8726
performance for high-resolution x-ray spectroscopy, 25:48963
performance for industrial control monitoring of radioactive contamination in lead, 22:36034 (NYO-3540-1)
performance for measuring nuclear cross sections and particle energy spectra in BOL system, test procedures for, 25:20207
performance for neutron dosimetry, using polyethylene radiator, 25:18798 (KFKI-70-29-HP)
performance for use as live targets in high-energy interactions, 25:46639
performance for x-ray detection relative to other detectors, 25:15900
performance in determining energy distribution of recoil protons in tissues and tissue-equipment materials, 22:37988 (CONF-670545-, pp 178-84)
performance in superconducting magnet spectrometer for electron spectra, 21:34484
performance in x-ray fluorescence analysis of geologic samples, 21:36110
performance of coaxial lithium-drifted, for gamma spectroscopy, 24:39297
performance of depleted, using plutonium conversion foil for fast neutron detection in intense transient gamma field, 22:43053
performance of ΔE, for current monitoring of pulsed electron beams, 25:404
performance of ΔE—E telescope, with magnetic analysis for charged particle identification for $Z < 10$, 24:36563
performance of lithium drifted, for determining extent of plutonium-239 contamination of wounds, 23:24635
performance of lithium-6 fluoride sandwich, for fast neutron spectroscopy, 25:42119
performance of lithium-6 sandwich, for fast neutron spectroscopy, 24:46496 (AERE-R-6060)
performance of lithium-6- and uranium-235-sandwiched, for neutron detection in gamma background, 23:4820
performance of lithium-drifted, 23:23746(R) (AECL-3257)
performance of lithium-drifted, for 25 and 50 mW γ energy spectra in DAPHNE core, 23:34924
performance of lithium-drifted, for behavioral studies in rats based on brain uptake of phosphorus-32, 24:39302
performance of lithium-drifted, for beta spectroscopy, 21:12642 (UCRL-50007-66-1, pp 15-21)
performance of lithium-drifted, for detecting conversion electrons in charged-particle spectra, 24:29506
performance of lithium-drifted, for detection of intense beam of gamma radiation modulated at 300 MHz, 23:9695 (CEA-R-3620)
performance of lithium-drifted, for diagnosis of skin neoplasms using phosphorus-32, 25:55273
performance of lithium-drifted, for internal conversion measurements, 24:48315
performance of lithium-drifted, for internal conversion coefficient measurements by single detector method, 23:35497
performance of lithium-drifted, for measurement of plutonium in wounds, 23:45505 (BNWL-1051(Pt.3), pp 1-6)
performance of lithium-drifted, for x-ray fluorescence spectroscopy, 23:24426 (IN-1218, pp 181-316)
performance of lithium-drifted, for x-ray spectroscopy, 25:29325 (JINR-P13-5707)
performance of lithium-drifted, in mobile x-ray fluorescence detector for heavy minerals, 22:2348 (ORNL-IIC-10(Vol.1), pp 503-21)
performance of lithium-drifted, over wide temperature range, 24:5909
performance of lithium-drifted, with cooled FET preamplifier as low-energy gamma spectrometer, 21:24213
performance of low resistivity, for neutron flux monitoring in reactors, 21:6254
performance of miniature, for dosimetry, 24:29580 (UCRL-18793, pp 89-91)
performance of multiplying, for low-energy gamma spectroscopy at room temperature, 24:39323
performance of multiplying, for low-energy gamma spectroscopy at room temperature, 25:34918(T) (LB/G-3034)
performance of p—i—n, for x-ray flux measurements, 23:16087 (EGG-1183-2183)
performance of position-sensitive checkerboard, in blocking experiments, 25:18679
performance of position-sensitive surface-barrier, for magnetic spectrographs, 25:2463
performance of position-sensitive telescope, for BOL nuclear detection system, 25:18757
performance of rocket-borne lithium-drifted, for solar x-ray spectroscopy at 4 to 40 keV, 25:18654
performance of silicon detector targets inside anticoincidence scintillator for separation of coherent and incoherent interactions, 25:46638
performance of surface barrier, for continuous monitoring of uranium in solution, 24:483 (NP-18022)
performance of surface barrier, in proton recoil system for neutron flux measurements in ORELA, 25:18763
performance of surface-barrier, 25:23763 (BARC-527)
performance of surface-barrier and lithium-drifted, for detecting x radiation, 23:9708
performance of surface-barrier lithium-drifted, with evaporated gold guard ring, 24:7628 (INR-P-1103)
performance of surface-barrier, at liquid helium temperatures, testing of, 24:14264
performance of surface-barrier, for alpha spectroscopy, 25:57794 (INS-TCH-5)
performance of surface-barrier, for detecting protons at 10 to 70 keV, 23:26518
performance of surface-barrier, for fast neutron spectroscopy, 23:22060
performance of surface-barrier, for internal-conversion electron spectroscopy in gamma background, 24:19231
performance of surface-barrier, for pulsed gamma dosimetry, 25:34892
performance of surface-barrier, for reactor fuel cladding failure detection, 24:39206
performance of surface-contoured gallium-diffused, 21:45342 (BNWL-481-4, pp 40-2)
performance of totally depleted, with fission foil converter for neutron detection in intense gamma fields, 23:2573
performance of, effects of preamplifier noise and response on, 22:27534 (NBS-TN-421)
performance of, for measuring neutron radiation damage in solids, 22:10263 (CEA-R-3228)
performance of, for monitoring uranium and plutonium-239 in urine, comparison with nuclear track counting method, 21:14654
performance with magnetic guide device for electron coincidence experiments, 21:30723
photoconductivity decay time in, contactless method for measuring, 21:14461
plasma effects for 42-MeV oxygen-16 ions in, 23:41000 (UUIP-649)
plasma effects for 8.8-MeV alpha particles in, 23:41000 (UUIP-649)
plasma effects for alpha particles and oxygen ions in, 23:40988 (EUR-4289, pp 101-6)
preamplifier for, design of charge-sensitive, 21:16103 (CLOR-60/D)
preamplifier for, design of low-noise, 22:2350 (UCRL-17818)
preamplifier with FET input stage for, design and performance of low-noise, 23:21965
preamplifiers for, design and performance of low-noise, 22:14755 (UCRL-18005)
preamplifiers for, design of charge-sensitive, low noise, FET, 22:28125
preparation and performance of half-column p-i-n lithium-drifted, 22:19119
preparation and performance of transmission surface-barrier, for telescope detectors, 25:29331
preparation and properties of lithium-drifted, 21:45335 (BMwF-FBK-67-72)
preparation of high-impedance, 21:295
preparation of lithium-drifted, 21:3314(P)
preparation of lithium-drifted, method for, 21:36337 (INR-800/II/PS)
preparation of lithium-drifted, time variation of drift region during, (E/T), 22:49081
preparation of n—p junction, doping techniques for, 23:11761 (RT/EL-(68)11)

preparation of neutron, by sputtering of boron-10, 21:26188
preparation of phosphorus-diffused, 22:14786
preparation of surface-barrier, 25:55013
production of lithium-drifted, method for, 21:1587
production of surface-barrier, 21:13796(R) (ORO-2972-25)
properties of lithium-drifted, high-temperature and long-term stability, 21:10661
properties of nuclear particle, optical and surface recombination, 21:294
properties of phosphorus ion implanted, 24:5887 (EUR-4269, pp 251-66)
proton energy-loss straggling distribution in surface-barrier, at 5 to 42 MeV, 23:9715
proton reactions with lithium-drifted, at 15.1, 21.6, and 26.5 MeV, 25:6549
pulse height defects in, trapping in defect states as sources of, 21:10656
pulse height distributions in lithium-drifted, due to nuclear reactions of charged-particle beams, 25:2451
pulse rise times of surface-barrier, for alpha-particle measurements, 21:24215
pulse shape analysis for charged particles, 21:24203
pulse shape discrimination using null transmission method, 24:31713
pulse shapes in, analysis of alpha particle, 23:631
pulse spectrum of small rod-shaped, for in-vivo measurements, 24:27376
pulse suppression in, use of anti-coincidence circuits for interference, 21:41215
pulse time distribution of lithium-drifted, used for electron detection, 22:23281
pulse time spread of lithium-drifted, for beta particle detection, 22:23265 (INR-P-867/IA/E)
pulse-height anomaly in lithium-drifted, temperature effects on, 25:15908
pulse-height defect in surface-barrier, due to energy partition of heavy ions of intermediate energy, 25:42061
pulse-height defect in surface-barrier, from nuclear collisions, 23:22006
pulse-height response of, for heavy fission fragments with respect to alpha particles at 7 to 102 MeV, 21:45423
pulse-shape discrimination with surface-barrier, for alpha particles and protons, 24:36568
pulses from thick, method based on pole cancellation for short shaping of slowly rising, 23:43536
pulses from, method of wave form analysis of, 21:26162
punch-through voltage effects in surface-barrier, with evaporated metal contacts, 23:40999 (UUIP-646)
radiation damage in lithium-drifted, 21:36351 (UCRL-17558)
radiation damage in lithium-drifted, 23:22146
radiation damage in surface-barrier, high-energy proton, 22:47443 (N-68-24660)
radiation damage in, used as fast neutron dosimeter, isochronal and isothermal annealing of, 22:33666 (AD-661323)
radiation damage to surface-barrier, low-energy proton, 25:21514
radiation effects on electric parameters of, fast neutron, 21:20016 (AD-648642)
radiation effects on energy resolution of surface-barrier, transient gamma, 24:36677
radiation effects on linearity of surface-barrier, helium-4, nitrogen, and neon ion, 23:47914
radiation effects on n-type, 1-MeV electron, 22:16970
radiation effects on performance of surface-barrier, fission fragment, 24:14382
radiation effects on performance of surface-barrier, 0.8- to 5.0-MeV proton, 23:758 (N-68-27456)
radiation effects on performance of surface-barrier, 0.8- to 5.0-MeV proton, 22:40512
radiation effects on performance of, gamma, 21:12740(R) (N-66-25000)
radiation effects on stability of spectrometers of, proton, 22:2477
radiation effects on surface-barrier, 200-keV to 1-MeV electron, 25:57907
radiation effects on surface-barrier, 4.5-MeV alpha, 24:25347
radiation effects on surface-barrier, 50-keV to 1-MeV proton, 22:36156 (N-68-15364)
radiation effects on surface-barrier, neutron and fission fragment, 23:14115 (INR-942)
radiation effects on useful lifetime of surface-barrier, 0.05- to 1.0-MeV proton, 22:28268
radiation effects on, fast neutron, 24:19281
radiation effects on, neutron, 21:17948
radioinduced pulse-height defects in thin-window surface-barrier, helium, neon, and nitrogen ion, 22:28088
radioinduced resolution changes in lithium-drifted, 0.5- to 3.0-MeV electron, 23:26631 (N-69-10933)
radioinduced space-charge buildup in MOS, 22:33706
rectification characteristics of surface-barrier gold—n—silicon, 22:40393
resolution and linearity of one-dimensional position-sensitive surface-barrier, 22:16868
resolution and sensitivity enhancement of surface-barrier, by cooling, 25:13217
resolution for cross sections of proton coherent elastic scattering on helium-3 and -4 at 600 MeV, 25:46641
resolution for mesons, nuclei, and protons at 10 MeV to 100 GeV, 25:42155
resolution of 5000-μ lithium-drifted, measurement of, 25:57801
resolution of alpha particle, improvement by cooling of, 21:12655
resolution of ΔE lithium-drifted, for mesons (π) energy measurement, 23:29196
resolution of high resistivity surface-barrier, effects of preferential trapping of holes on, 22:49079
resolution of junction, effects of carrier recombination and trapping on, 24:4457
resolution of lithium ion-implanted p—n, for alpha detection, 23:17770
resolution of lithium-drifted, for x-ray and conversion electron spectroscopy, 23:24426 (IN-1218, pp 181-316)
resolution of lithium-drifted, temperature dependence of, 21:12631(R) (N-66-24954)
resolution of lithium-drifted, ultimate limits on, 23:21980
resolution of surface barrier, for measuring mass distribution of thermal neutron uranium-235 fission fragments, 23:7779
resolution of surface-barrier, 25:18672
resolution of surface-barrier, for electron detection at 10 to 100 keV, energy dependence of, 25:8524
resolution of surface-barrier, for measurement of fission fragment mass spectra, 24:33923
resolution of surface-barrier, use for determining nuclear energy levels, 23:11751 (ANU-P-415)
resolution of telescope for alpha particles of 5 to 9 MeV, 25:26485
resolution of, intrinsic, 22:40430
resolving power of, for spectroscopy at high counting rates, 23:671 (CEA-R-3415)
response characteristics of, to gamma radiation, 21:17887
response function for fully depleted p—n, determination of, 22:19099 (UCID-4675)
response functions for electrons, calculated, 24:27350 (NBS-TN-489)
response functions of lithium-drifted, to monoenergetic electrons, 21:12631(R) (N-66-24954)
response functions of surface-barrier, for monoenergetic positrons, 24:33875
response of avalanche-type, for detection of electrons at 5 to 40 keV, 22:45281(R) (NYO-3246-TA-3)
response of conductivity-modulated p-n, to fast neutrons, 21:3315 (AD-641559)
response of diffused-junction and surface-barrier, for detection of beta particles at 300 to 22.2 K, 23:38266
response of diode fast neutron, effects on n- or p-type doping, resistivity, and crystal fabrication on, 21:6189 (AD-641843)
response of high-resolution lithium-drifted, 24:33877
response of lithium-drifted, effect of proton-induced reactions on, 21:26326
response of lithium-drifted, for detection of 200-keV to 1.7-MeV electrons, effects of backscattering on, 21:45379
response of lithium-drifted, to 0.2- to 1.7-MeV beta particles, 21:28199 (BMwF-FBK-67-18)
response of lithium-drifted, to 0.3- to 1.2-MeV electrons, backscattering and bremsstrahlung effects on, (E/T), 22:49090
response of lithium-drifted, to 46.5-keV gamma ray from lead-210, 25:15878 (ANL-7760(Pt.1), pp 28-32)
response of lithium-drifted, to high-energy charged particles, 22:28093
response of p—i—n, for measuring fast neutron flux, 23:13977 (CEA-CONF-1067)
response of shielded to gamma radiation from radioisotope thermoelectric generator, 25:4350
response of stacked, effect of nuclear reactions on, 24:29510
response of surface-barrier, for heavy ions, pulse-height defects in, 25:23819
response of surface-barrier, in axial magnetic fields up to 100 kG, 25:405
response of surface-barrier, to heavy ions, 25:37612
response of totally depleted and lithium-drifted, to gamma radiation and neutrons from radioisotope thermoelectric generators, 25:4356
response to 0.15- to 5.0-MeV electrons, calculation and measurement of, 23:21953
response to 0.25- to 1.00-MeV electrons, 22:40403
response to fission fragments of 13.6 to 90 MeV, 21:41233
response to heavy ions, (E), 24:37177(R) (NYO-2962-8)
response to monoenergetic neutrons, Monte Carlo calculation of, 25:4351
response to protons, nuclear reaction effects on, 25:5606(R) (UCSB-34-P-144-7)
sensitivity for detection of polarization plane of low-energy linearly polarized photon beams, 25:48917
sensitivity of lithium-drifted, for radioisotope x-ray fluorescence analysis, 23:20036 (AD-674418)
sensitivity of lithium-drifted, in x-ray spectrometer for fluorescence analysis, 22:38076
sensitivity of rectangular lithium-drifted, for polarization measurements of photons, 25:8508
sensitivity of surface-barrier, for detection of electrons, design of sector-field magnetic spectrometer for determining, 23:43550
sensitivity of, for beta particles, 21:45381
spectra calculations for charged particles in lithium-drifted, Monte Carlo, 24:4477
spectral noise intensity of, measurement of, 25:57742
structure of lithium-drifted, design of light spot scanner for studying, 21:43245
surface barrier layer formation on gold vapor treated n-type, 21:3277
surface-barrier formation in, theory of, 22:35285(R) (AERE-PR/NP-13)
time resolution of particle—gamma coincidence circuits using, 23:47750
time resolution of surface-barrier, plasma effects on, 25:13228
time resolution of telescope surface-barrier, 25:8517
time resolution of, for gamma detection, 22:43073
timing system for, design of low-walk high-resolution, 22:40406
timing with surface-barrier, using charge and current pulses, 25:34899
use as fast neutron spectrometer, 21:10660
use as gamma spectrometers, review of, 21:32378(T) (AEC-tr-6719, pp 64-70)
use by E—ΔE method for detection of particles, (T), 21:45359 (LYCEN-6738, pp 115-23)
use for beta dose rate measurements, 21:12628 (CLOR-57/D)
use for fast neutron dosimetry, 21:43283
use for gamma and x-ray exposure rate measurements, 21:28267
use for high-resolution alpha spectroscopy, 21:30693 (IN-1082)
use for measuring fission fragment energy spectra, computer program for determining parameters for, 22:47347
use in beta-particle dose rate measurements, 21:26196
use in β—β and β—γ coincidence measurements, 21:24194 (NP-16670)
use in coincidence for charged-particle mass identification, 21:28230
use in combination with scintillation detectors for clinical dosimetry, 22:38296
use in computer-controlled bistabilized 4096-channel system, 21:3279
use in cyclotron beam profile measurements, 21:17895 (UCRL-16507)
use in dE/dx telescope configuration for detection of charged particles at 1 to 60 MeV, 22:28086
use in depth-dose distribution measurements of small collimated beams, 21:17895 (UCRL-16507)
use in fast neutron dose rate measurements, 21:26193
use in nuclear and solid-state physics, 21:26203
use in radiobiology and medicine, review of, 22:47344
use in satellite-borne cosmic ray telescope, 22:43024 (CONF-680441-1)
use of array of oxide-passivated, in broad-range magnetic spectrometers, 21:32405
use of array of position-sensitive surface-barrier, in magnetic spectrometers, 23:9729 (AERE-R-5897)
use of cooled large area lithium-compensated, in scattering chambers, 21:3299
use of lithium-6 sandwich, for high-resolution fast neutron spectroscopy, 23:7784
use of lithium-doped, in $4\pi\beta$ spectrometer, 22:23315
use of lithium-drifted and surface-barrier, for qualitative and quantitative identification of beta sources, 21:26197
use of lithium-drifted, as spark chamber trigger for studying coherent π^- interactions with nuclei, 23:7797
use of lithium-drifted, for analyzing fission gases, 23:677
use of lithium-drifted, for beta dosimetry, 22:30825(R) (UCRL-50007-67-3)
use of lithium-drifted, for detection of proton scattering by nuclei at 730 MeV, 21:3298
use of lithium-drifted, for determining beam energy of electron accelerator, 21:39192(R) (UCRL-50007-67-1)
use of lithium-drifted, for determining isotopic composition of plutonium samples, 21:45343 (BNWL-481-4, pp 42-5)
use of lithium-drifted, for measuring depth-dose distribution of mesons (π^-) in water, 21:8626 (UCRL-16924)
use of lithium-drifted, in 4π beta spectrometer, 23:687
use of lithium-drifted, in beta spectrometer for electron—gamma angular correlation experiments, 23:2633
use of lithium-drifted, in determining behavior of complex mixtures of radionuclides in environmental and biological systems, 21:36368
use of lithium-drifted, in x-ray fluorescence analysis, radioisotope source—target assembly for, 23:659
use of low-background 4π, for activity measurements of beta sources, 22:6582
use of miniature, as dosimeters, 21:6207
use of position-sensitive, with photoelectric cells for detection of ultraviolet radiation, 22:28083
use of stacked lithium-drifted, for measurement and elimination of nuclear reaction tails, 24:8832(R) (UCLA-10-P-18-13)
use of surface-barrier, for gamma and x-ray dosimetry, 22:14860
use of surface-barrier, in radiometric thickness gage, 23:710
use of, in two-phase hydrogen flow gaging system, 21:12597
use with $\Delta E/\Delta x = f(E)$ curves for detection of 130-MeV particles, 21:45353 (LYCEN-6738, pp 34-9)
use with lithium-drifted germanium detectors for α-γ angular correlation measurements, 21:16192
use with particle identification system for detection and measurement of alpha particles and helium-3, 21:10657
use with thin polyethylene proton radiators for fast neutron detection, 22:12587
use with three carbon dioxide flow detectors for fast neutron spectroscopy, 23:38311
use with x-ray spectrometry for determining plutonium-239 penetration into wounds, 21:28430 (BNWL-SA-1261)
uses for spectroscopy, low-temperature limit on, 23:41027
vacuum chamber design for, alpha—gamma coincidence measurements, 23:33394
window thickness of boron and tellurium ion-implanted, parameters affecting, 24:5883 (EUR-4269, pp 161-76)
window thickness of, methods for measuring, 25:39737 (NP-18897)
window thickness on surface-barrier, oxide, 23:22026
windows of, effects on detection efficiency for deuterons and protons, 21:32464
x-ray sensitivity of lithium-drifted, effects of cooling input stage of preamplifier on, 21:41216

RADIATION DETECTORS, SPARK CHAMBER
alpha counting characteristics of corona-streamer, in air, 21:1574
amplifier with 1 msec recovery time for, design and operation of trigger, 25:18791
avalanche amplification in streamer, calculations for, 25:15943
avalanches in streamer, theory of, 24:9693
background for iron—transparent-plastic, for detecting τ + e interactions underground, 23:42541
BCD code display system for optical, 25:20177

book: Bubble and Spark Chambers, 21:30729
book: Bubble and Spark Chambers, Vol. I, 22:38096
book: Spark Chamber, 22:10607
book: Spark Chambers, 24:27420
calibration and testing of, use of pulsed light sources for, 22:45312
calibration marks for, use of Skotchlite tape, 24:27413
characteristics of external electrode, for cosmic ray studies, 25:35021
characteristics of single-wire, for alpha detection, effect of wire-to-plate spacing on, 24:27357
charged-particle ionization potential in, with small spacings, 23:45553
circuit for switching clearing field for, 22:19152
circuit parameters of, with decoupled high-voltage electrode, 25:42150
circuitry for magnetostrictive, design of modular, 21:3246 (PPAD-605-E)
circuits for, development of, 21:33806 (RHEL/R-129, pp 11-44)
conference on filmless, Dubna, 1969, 25:48991 (JINR-13-4527)
construction of digitized, manufacturing of photographic negative with parallel lines for, 22:28171
construction of large wire, wire stretching machine for, 22:49114 (CERN-68-34)
control system for streamer, logic, 24:50630
corona discharge conditions and characteristic counting behavior of cylindrical, 24:11816
count recording equipment for, pulsed power supply for lighting of, 22:4311 (UCRL-17621)
cryogenics for, developments in, 25:43735
currents flowing in, information about coordinates and energy of charged particles from, 21:16105 (CONF-660918-, pp 3-28)
data acquisition and control for magnetostrictive, computer program for, 25:26512
data acquisition and processing system for, on-line computer, 25:14838 (CERN-70-21(Vol.2), pp 525-37)
data acquisition system for 32-wire, computer-based, 24:11842
data acquisition system for magnetostrictive wire, modular digital, 24:39357
data acquisition system for magnetostrictive, operation of modular computer-based, 24:16885 (PPAD-671-E)
data acquisition system for sonic and/or magnetostrictive readout, design of, 23:22095
data acquisition system for wire, development of, 24:14309
data acquisition system for, PDP-7, 25:26510
data acquisition, analysis, and control, computer program for, 23:6312 (SLAC-PUB-511)
data analysis for, core read-out system for, 21:33599 (RHEL/R-144, pp 15-40)
data analysis for, review of principles and methods of, 24:4483
data digitizing and memory system for magnetostrictive wire, 25:35016
data from magnetostrictive wire, use of on-line computer for analysis of elastic differential cross section, 22:47372 (PPAR-3)
data from magnetostrictive, use of on-line computer for analysis of elastic differential cross section, 21:45357 (LYCEN-6738, pp 93-107)
data from wire, use of iterative computer graphics for analysis of, 24:2515 (DNPL/P-16)
data from, automated reader for, 24:19240
data from, design of fast integrated logic circuits for processing, 23:47816
data handling for magnetic field, developments in, 23:33509 (ANL-7515, pp 328-43)
data handling for, description of Brookhaven On-Line Data Facility for, 23:11846 (BNL-13130)
data handling system for acoustic, design and performance of piezoelectric microphone—pulse analyzer, 21:39208
data processing for, conference on advanced, 23:33491 (ANL-7515)
data processing for, description of computer programs for, 25:35004 (JINR-P10-5762)
data processing from magnetostrictive, electronic equipment for, 23:47839
data processing system for, FOCUS remote access system for, 25:13265 (CERN-70-21(Vol.2), pp 551-9)
data processing system for, operating in proportional mode, 25:23785(P)
data processing system for, time-sharing computer, 23:9785 (BNL-13045)
data readout system for, using capacitors and field effect transistors, 22:28167
data readout system with direct selection of information for wire, 22:43107
data readout systems for, comparison of wire array and vidicon, 24:50626 (TID-25473(Vol.3), pp 117-22)
data recording from, design of AERE 2000 series logic system for, 23:30923(R) (RHEL/R-170)
data recording system for streamer, digital, 24:50627 (TID-25473(Vol.3), pp 123-7)
data recording system for wire, design of, 21:39250
data recording system for, design of magnetic, 22:14844 (AERE-R-5008)
data retrieval from film-free magnetostriction- and ferrite-type, with computers, 24:4482
data storage and display for magnetostrictive, delay-line multiplexing method for, 22:6643 (UCRL-17623)
description and uses in high-energy physics, review on, 24:31735
description and uses of, 24:50632
description of 20-plane wire, with capacitor memory and FET readout, 24:39365
description of acoustic, 21:6288
description of air—argon, with large memory storage, 21:298
description of balloon-borne, for pulsed gamma emission from NP 0532, (E), 25:2841 (CEA-CONF-1633)
description of combination nuclear emulsion—, for 15-GeV cosmic photons, 22:10559
description of magnetic telescope, for measuring proton polarization from high-energy photon reactions with nuclei, 25:42146
description of magnetostrictive wire, 24:36621
description of magnetostrictive, with argon or helium—argon mixtures, 23:2655
description of NE102A-triggered streamer, for recording tracks of low-energy charged particles, 25:51872
description of open-air, for detection of beta particles from tritium, 25:23801
description of position-sensitive, for use with magnetic spectrographs, 25:8476 (JUL-CONF-4, pp 71-120)
description of self-starting inert gas-filled streamer chamber, 21:6235
description of single-arm hodoscope wire, with magnetic spectrometer for single-particle detection and momentum measurement, 23:47842
description of wire, for determining beam profile at SLAC, 21:17237
description of wire, with magnetostrictive readout for gamma ray detection, 24:23008
description of wire, with on-line computers for measurement of meson (K^+) and meson (K^-) decays, 24:39349 (PURC-2137-22)
description of, for isotope localization in man, 22:40433
design and construction of cylindrical, for use in neutrino detector, 21:19942
design and construction of large, 23:24463(T) (SLAC-Trans-94)
design and construction of large single-gap, 23:16158 (JINR-P13-4191)
design and construction of system of, with magnetostrictive readout, 21:3240 (CERN-66-30)
design and fabrication of lead-plate gamma-ray, 21:37653(R) (UCLA-34-P-106-1)
design and fabrication of thin plate, 21:3281
design and operation for thyroid scanning, 25:46618 (CEA-R-4171)
design and operation of, 21:30697 (RHEL/R-136, pp 131-51)
design and operation of, 23:38317
design and operation of magnetostrictive, 22:6641 (INFN/AE-66/6, pp 1-20)
design and operation of streamer, used in search for double beta decay, 23:7747
design and operation of wide-gap, review on, 25:26514
design and operation of wire, for analysis of meson (K^0) decay, 24:25299 (PITHA-30)
design and operation of wire, with ferrite core memory for bremsstrahlung polarization measurements, 24:36554 (INSJ-117)
design and performance for detecting cosmic gamma radiation, 22:51250
design and performance for detection of cosmic electrons at 0.1 to 1.5 GeV, 23:45548
design and performance for fission fragment detection, 25:18671
design and performance for high-flux neutron detection at high-temperatures, 23:40996 (TID-25164)
design and performance for measuring photofission yields, 25:21394
design and performance for polarization parameter measurement for $\pi^- + p \to \pi^0 + n$ interactions, design and performance of triggering device for, 22:21348 (CEA-R-3357)
design and performance of 1.5 m^2 wire, 22:40464
design and performance of 20-cm gap streamer, 23:11859
design and performance of acoustic, for detecting cosmic gamma radiation, 23:2656
design and performance of acoustic, for measuring spectra of electron pairs, 23:47825
design and performance of computer-based wire, with magnetostrictive readout, 21:43254
design and performance of corrugated-electrode, for neutron detection at high temperatures, 23:45513 (TID-25196)
design and performance of current, 25:42151
design and performance of cylindrical, with magnetostrictive readout, 24:16878 (BMBW-FBK-69-45)
design and performance of digitized wide-gap chamber system for parity and spin of A_1, 23:23360 (NP-17812)
design and performance of digitized wide-gap wire, with magnetostrictive readout, 21:36334 (CERN-67-13)
design and performance of diminutive corona, for fission fragments, 25:48976
design and performance of film-free magnetostriction- and ferrite-type, with computers, 24:4482
design and performance of gamma cameras using, 25:51876
design and performance of gas-image amplifying, operating in spark region, 21:10646
design and performance of helium-filled streamer, 22:38081 (UCRL-16891)
design and performance of high resolution magnetostrictive wire, 25:13301
design and performance of high resolution optical, 25:13302
design and performance of high-density liquid helium and argon, 22:10596 (TID-24218)
design and performance of high-pressure cylindrical, 23:2652
design and performance of high-Z cylindrical, 22:24777
design and performance of isotropic wire, 21:6245
design and performance of magnetic core digitized, for gamma-ray telescopes, 22:366
design and performance of magnetic, for $K_2^0 \to K_1^0$ regeneration studies at high energies, 25:8544 (JINR-P1-5361)
design and performance of magnetostrictive wire, 22:47378
design and performance of magnetostrictive wire, for $\pi^- + p$ elastic scattering, 24:25298 (INFN/AE-69/7)
design and performance of magnetostrictive, for $\pi^- + p$ backward scattering experiments, 23:47826
design and performance of multilayer, for fission fragments, 24:14297
design and performance of neon-filled, 21:45399
design and performance of polyethylene-loaded, for detecting neutrons from $\Lambda^0 \to n + \pi^0$ decays, 23:22094
design and performance of proton-recoil, for studying neutron cascade in iron, 23:22078
design and performance of sonic, 21:3271
design and performance of sonic, for angular distribution measurements, 24:11793
design and performance of sparkostrictive, with piezoelectric readout, 22:28166
design and performance of streamer, 22:21350 (CONF-670923-, pp 571-85)
design and performance of streamer, for high-energy particle identification, 24:21017
design and performance of streamer, for registering slow mesons (μ) stopping in gas volume, 21:8580 (JINR-P13-2998)
design and performance of streamer, for studying $K_2^0 \to \pi^+ + \pi^- + \pi^0$ decay, 22:36102
design and performance of thin aluminum foil, for measurement of high-energy gamma radiation, 21:30726
design and performance of thin-gap wire, with magnetostrictive readout, 22:369
design and performance of wide-gap, 21:44275(R) (ORO-2504-107)
design and performance of wide-gap cylindrical, for operation near grounded objects, 21:318
design and performance of wide-gap, for high momentum beams, 24:50617 (TID-25473(Vol.3), pp 17-34)
design and performance of wire, for K/sub e/$_4$ decay studies, 22:22332(R) (UH-511-23)
design and performance of wire, with ferrite core storage, 24:9692
design and performance of wire, with magnetostrictive readout and on-line computer, 21:16140 (JINR-E13-3141)
design and performance of wire, with magnetostrictive delay line readout, in spectrometer arrangements, 24:2493 (UCRL-18846)
design and performance of wire, with magnetostrictive delay line readout system, 21:8603
design and performance of, aluminum electrodes for, 21:286
design and performance of, book on, 21:1618
design and performance of, with inductive location, 23:22091
design and performance using FET readout circuit, 25:13264 (CERN-70-21(Vol.2), pp 539-48)
design and performance with graphite electrodes, 25:18785
design and performance with two-coordinate readout and ferrite-core memory, 25:18790
design and properties of cylindrical, 24:11816
design and use of wide-gap streamer, 21:41206
design and uses at Saclay cyclotron, 23:47824
design characteristics of magnetostrictive, analog-to-digital converter for studying, 23:7790 (NP-17699)
design characteristics of streamer, 23:7789 (NP-17697)
design for 3-GeV electron—positron storage ring, 22:11822
design for beta particles, x rays, and gamma rays, 22:2385(P)
design for detection of gamma rays from cosmic sources, (E), 22:52424
design for EAS studies at Tokyo University, 21:5093 (INSJ-100)
design for gamma-ray astronomy, (T), 22:13084
design for high resolution proton spectrometer, 21:36401
design for high-energy cosmic particles, (E), 24:19792
design for imaging gamma- or x-ray emitters for medical use, 22:37973 (CEA-R-3320)
design for neutron spectroscopy, using recoil protons, 22:21339 (TID-24308)
design for particle path location in magnetic spectrometers, 21:302
design for storage rings, 22:11824
design for studying high-energy particle elastic scattering over wide angular range, 24:23018 (CEA-N-1258)
design for studying meson resonance radiative decay, 22:38090
design for use in cosmic-ray telescope for detection and measurement of gamma radiation at balloon altitudes, 23:668
design for use in focal plane of broad-range magnetic spectrograph, 21:40473(R) (PR-P-74)
design for use in lead—scintillation counter—spark chamber system for detection of cosmic showers, 23:47756
design for use with magnet coil for Adone storage ring experiments, 23:25727 (LNF-69/2)
design modification for large carbon-plate, 21:46456(R) (NYO-1984-11)
design of 200-mm diameter, 22:4543
design of acoustic, 21:3313(P)
design of airborne digitized, for detection of charged particles and gamma rays, 21:32433
design of all-glass, for cosmic radiation, 21:17869
design of automatic film scanning equipment for, engineering drawings for, 21:6363
design of cage coil—, for storage rings, 22:11825
design of curtain-discharge, for detection of beta particles, 21:41227
design of cylindrical neon-filled, in magnetic field, 24:50584 (JINR-P13-5170)
design of cylindrical, with boron nitride converters for in-core neutron detection at high temperature, 25:2459
design of dE/dx, for detection of 100- to 200-MeV muons, 23:45549
design of decision-making logic system for, 22:16908
design of demountable, using thin aluminum foil electrodes for studying noncoplanar nuclear reactions, 23:47759

design of digitized wide-gap wire, with magnetostrictive readout, 21:14469
design of fast acoustic, 23:11856
design of gamma camera, for radiodiagnosis, 23:33463
design of gas-filled, for detection of beta, gamma, and x radiation, 25:34876(P)
design of helium-filled streamer, for low and intermediate energy nuclear physics, 24:41687
design of hodoscope of, for extensive air showers, 25:42158
design of hodoscope system of wire, with magnetostrictive readout, for measuring momenta of charged decay particles from double vertex events, 23:11846 (BNL-13130)
design of inductive, for use as detector in magnetic spectrometer, 22:28127
design of large wire, with magnetostrictive readout, 23:26578
design of large wire, with magnetostrictive readout, 22:4480(P)
design of large-area high-efficiency, using electrode of high-resistive material, 25:35019
design of large-area wire, for cosmic gamma-ray telescopes, 23:26515 (N-69-17998)
design of large-gap, with rotated electric fields, 23:33527
design of low-density, using polyurethane foam core, 22:23325
design of magnetic missing mass spectrometer using, 25:39757 (ITEF-808)
design of medical gamma camera using, 24:31698
design of missing-mass spectrometer, 25:17639
design of multilayer, for detection of fission fragments, 22:45333 (JINR-P3-3957)
design of multiplate, for observation of cosmic radiation, 21:41227
design of multiplate, for use as fission counter, 21:4687 (CONF-651015-1)
design of multiwire, 21:5435(R) (TID-23395)
design of multiwire, for radioisotope imaging, 25:37604(P)
design of multiwire, for synchrocyclotron beam profile measurements, 25:20163
design of Omega, for CERN 28-GeV Proton Synchrotron, 23:17038
design of position-sensitive multiwire, for use with split-pole magnetic spectrograph, 25:8478 (JUL-CONF-4, pp 141-7)
design of proportional counter triggering streamer, for registering stopping mesons, 21:16112 (CONF-660918-, pp 82-4)
design of proportional-mode wire, facility with computer for optimization of, 24:36619
design of small-angle shower, for internal synchrotron targets, 25:8553
design of streamer, for cosmic particles, 21:1591
design of streamer, with isotropic properties for studying high-energy nuclear reactions, 21:45404
design of streamer, with lead glass plates as γ-quantum converters, 21:10605 (JINR-P13-3068)
design of system of, for studying $\pi^- + p$ interactions, 23:13031 (COO-1764-21)
design of transmission-line-type digital, 22:40463
design of transmission-type digital, 22:25670 (BNL-12362)
design of wire, 21:37653(R) (UCLA-34-P-106-1)
design of wire, with magnetically shielded ferrite core readout, 24:9694
design of wire, with static magnetostrictive delay-line store, 22:47370 (JINR-P13-4020)
design using Monte Carlo calculations of neutron scattering, for detection of solar and atmospheric neutrons at 50 to 150 MeV, 23:43548
design with discharge duration time up to 10 to 100 msec, 23:38314(T) (NP-tr-1810)
design with electronic readout for use as range chamber, 22:23323
design with increased isotropism, 22:30863
design, operation, and performance of wire, review of, 21:32392
design, operation, and uses of, 22:43106
design, operation, and uses of, 21:12645(T) (AD-643601)
development and operation of streamer, 22:45336
development and operation of wide-gap, 22:45336
development and performance of spark and streamer, for use with accelerators, 22:12642
development and techniques of track, 21:16134 (CONF-660918-, pp 415-27)
development and use in nuclear medicine, 24:48261 (CEA-CONF-1578)
development and uses of position-sensitive, with ferrite core memory, 25:8480 (JUL-CONF-4, pp 165-71)
development and uses of, with magnetostrictive readout, 24:16836 (UCRL-19363)
development at CERN, 1968, 23:37041(R) (NP-17947)
development at MIT, status of, 22:30856 (MIT-2098-422, pp 10-12)
development at Rutherford, 1969, 24:47534(R) (RHEL/R-191)
development based on electron emission from liquid into gas medium, 24:48296
development for charged-particle and gamma-ray detection on balloons and satellites, 21:19898 (N-67-16546)
development for detection of cosmic showers, 24:29539
development for detection of fission fragments, 22:14001 (RPI-328-100, pp 1-56)
development for detection of fission fragments, 21:19152(R) (TID-23685)
development for double vertex magnetic spectrometer, 23:6310 (BNL-12900)
development for fission detection, 22:39506 (RPI-328-123, pp 53-63)
development for high energy physics research, present status and future projections for, 24:3490 (TID-25251)
development for measurement of particle trajectories, 24:50625 (TID-25473(Vol.3), pp 103-16)
development for plotting neutron flux distributions in reactors using fission foils, 25:26460(P)
development for radioisotope scanning, 24:33900
development for use at proposed 300-GeV proton synchrotron, 22:48387 (CERN/ECFA-67/16(Vol.1))
development of, 24:499
development of 2-meter streamer, 25:18774 (JINR-P13-5529)
development of automatic, review of, 25:18796
development of conventional and digitized, 21:16133 (CONF-660918-, pp 389-408)
development of cylindrical, for detection meson (μ) cosmic showers, 21:32423
development of digital wire, 21:22188 (BNL-994, pp 37-44)
development of digitized wide-gap wire, with magnetostrictive readout, 21:10634
development of digitized wire, for operation in magnetic field, 24:29578
development of filmless, with binary combination of photomultiplier signals for spark coordinate determination, 24:27414
development of helium-filled streamer, 23:43598
development of high-resolution low-temperature wire, 25:49015
development of hybrid proportion detector—, 25:15940
development of large wire, for meson spectroscopy, 24:36616 (SLAC-PUB-754)
development of liquid-argon position-sensitive wire, based on electron multiplication, 24:50624 (TID-25473(Vol.3), pp 79-102)
development of magnetic, for use in search for quarks, 25:10868 (IFVE-SEF/OP-70-13)
development of magnetostrictive wire, for heavy cosmic ion spectroscopy, 25:10873
development of multiplate, for fission fragment detection, 23:11900 (RPI-328-142, pp 152-63)
development of multiwire, 22:1598(R) (COO-1265-49)
development of neutral-particle tagging facility for ANL 30-inch bubble chamber using, 25:34967 (CONF-700623-(Vol.2), pp 582-92)
development of neutron, using boron converter at high temperatures, 22:10542(R) (TID-24212)
development of scintillation detector—spark chamber telescope for studying π^+ production in $\gamma + p$ interactions, 24:14305
development of self-triggered wire, for clinical gamma-ray scanners, 25:57784
development of self-triggering streamer, for low-energy particles, 24:29561
development of streamer, 21:14438 (SLAC-PUB-252)
development of streamer, summary of, 24:50628 (TID-25473(Vol.3), pp 129-39)
development of streamer, technological aspects in, 21:39190 (SLAC-74)
development of system of digitized, in combination with computers, 23:26572 (KFK-769)
development of thin window transmission counter for entrance of magnetic spectrograph, 22:46729(R) (AECL-3157)
development of three-electrode, for small-angle x-ray diffraction studies, 24:2441 (CEA-CONF-1294)
development of wide-gap and streamer, 23:14036
development of wire, 22:32039(R) (COO-1195-124)
development of wire, with external acoustical transmitting element, 21:22148
development of wire, with large core memory, 23:14033 (CEA-CONF-1152)
development of wire, with magnetostrictive readout system, 21:19891 (BMwF-FBK-67-07)
development of wire-type, using magnetic core readout, 21:26150 (MIT-2098-299, pp 35-51)
development of, book on, 21:26205
development of, recent, 24:23017 (CEA-CONF-1486)
development of, review on, 25:6580
dielectric breakdown in liquid argon, induced by ionizing particles, 24:4481
digitizing system for magnetostrictive, design of low-cost large-scale, 22:40465
digitizing system for magnetostrictive, design of low-cost large scale, 22:25671 (UCRL-17938)
discharge duration in, method of increasing to 100 μsec, 21:6198 (JINR-P13-3064)
discharge in, passive readout technique for distinguishing, 22:43105
discharge of, design of triggered spark gap for, 21:43267
efficiency at lower limit of ionization, measurement of, 25:8557
efficiency for recording shower particles, 21:6299
efficiency of acetylene—argon-filled, multiparticle recording, 21:39249
efficiency of argon-filled, method for improving, 22:49122
efficiency of film-free magnetostriction- and ferrite-type, with computers, 24:4482
efficiency of helium—alcohol, at low pressures, for detection of slow alpha and beta particles, 22:6600
efficiency of multilayer, for detection of cascade showers produced by electron reactions in lead at 200 MeV, 23:16101
efficiency of multiplate, at high-background conditions, 22:30861
efficiency of multiplate, transmission line effects on multitrack, 24:29571
efficiency of pure-neon-filled and neon- and alcohol-vapor-filled, at long high-voltage pulse delay, shower, 24:9690
efficiency of thin-plate, as function of specific ionization of charged particles, 23:38313 (LNF-69/16)
efficiency of wide gap, as momentum measuring device, 21:6214
efficiency of wire-plane, for fission studies, 23:1882 (WASH-1093)
efficiency of, effects of magnetic field on, 25:44683 (JINR-P13-5811)
efficiency of, for detection of fission fragments in intense alpha background, 21:16178
efficiency of, shower, 23:24462 (JINR-P13-4369)
efficiency of, shower, (E/T), 25:35006 (JINR-P13-5810)
efficiency test system for thin, 25:37642
electric breakdown along particle trajectories in wide-gap, theory of, 23:17800
electric breakdown along particle trajectories in wide-gap, 22:14845
electric discharge circuit for, spark-gap high-voltage, 25:18782
electric discharge control in, used for localizing beta particles and gamma and x radiation, 23:2646(P)
electric discharge in streamer, fast electron and x ray energies during initial states of impulse, 22:16905
electric discharge in, screening from electromagnetic field of, 23:26575
electric discharge mechanisms in streamer, 22:8389
electrodes and targets for, use of polyethylene as, 21:45391
electrodes for multigap, preparation of thin-film, 24:11838
electron avalanche-to-streamer transitions in, use of image intensifier streak camera for recording, 21:12625 (BMwF-FBK-66-31)
electron—photon cascades in multilayer, evaluation of dispersion of total number of sparks accompanying, 21:22146
electrostatic field in wire, calculation of, 22:33689 (ZfK-121, pp 1-133)
fabrication and operation of beam profile, with magnetostrictive delay-line readout, 21:8610
fabrication and operation of wire, with ferrite core readout, 24:5928
fabrication and performance of multi-wire, for measuring activities of alpha sources, 23:20001
fabrication and testing of, with thin aluminum foil plates, 21:16158
fabrication of cylindrical wire, 22:6651
fabrication of, design of wire-winding device for, 25:44691
gas mixtures for, testing of, 21:297
gas purifier and recirculator for neon, 23:26577
gas purifier for SLAC 2-m streamer, design of inert, 23:26580
gas recovery from MIT Mascot, design of liquid nitrogen-cooled adsorption system for neon, 21:3292
ionization capacity of charged particles in small-gap, 23:24461(T) (CERN-Trans-68-16)
ionization density measurements in helium streamer, as function of momentum, pressure, and voltage delay time, 23:31551
ionization in helium-filled streamer, measurement of relativistic increase of specific primary, 22:47379
magnet coil for, use of copper strips in, 21:17762(P)
magnet coils for Argonne, electrical testing of, 23:28120
magnet for Omega, design of superconducting, 25:2492
magnet for, engineering drawings for, 23:42815
magnetostrictive materials for, amplitude and frequency characteristics of, 23:31555
magnetostrictive readout system of, effects of magnetic field strength on sensitivity of, 22:36108
magnets for, development of superconducting, 22:50486 (BNL-12832)
magnets of, design and performance of 5800 kW (11,050 A) power supply for, 21:36347 (SLAC-PUB-329)
meson (μ) detection in isotropic, method for, 21:17877
meson (π) track density per unit length in helium-filled streamer, momentum dependence of, 23:42602
microphones for sonic, piezoelectric, 24:4490
operation and performance in magnetic field, 25:49000
operation and performance of polyurethane foam streamer, 25:21431
operation and performance of wire, with magnetostrictive readout, 25:8552
operation at high count rate, 25:29375
operation in synchronization with ionization chambers for studying cosmic-induced nuclear reactions, 23:31553
operation of cylindrical wire, in low pressure helium, 25:10872
operation of microwave, 21:12657
operation of multiplate, 23:14036
operation of multiple-wire, effects of surrounding gases on, 24:11801
operation of sampling, 25:18778
operation of streamer, for detection and measurement of cosmic particles, 22:38087
operation of streamer, techniques for, 21:19294 (ISS-66/29)
operation of wire, with ferrite memory system, 22:38089
operation of, effects of addition of argon, carbon dioxide, and water vapor to air composition on, 23:11855
operation of, effects of alcohol vapors in gas mixture on, 22:49124
operation of, relation between statistical mechanics and quantum theory of measurement in, 21:3264
operation on-line to digital computer, 23:47817
operation with Cherenkov detectors, 23:16097
optical system for large, design and performance of, 23:43596
optical system for Λ^0 missing mass spectrometer, for $\pi^- + p \rightarrow \Lambda^0 + K^0$ interactions, 24:50585 (NP-18480)
particle events in, independent scanning statistics for, 21:16198
particle events in, search statistics in method of double and multiple scan in estimating, 23:43599
particle momentum measurements in streamer, effect of magnetic field on accuracy of, 25:42148
particle multiple scattering in, measurement of position and track direction in, 21:10648
particle track analysis for streamer, method and test for, 21:17826
particle track analysis in, computer-based scanner with flying spot device for automatic, 23:33531
particle track analysis in, errors in scanning devices for, 22:45334 (JINR-P10-3910)
particle track analysis in, scanning efficiency for, 23:7793

particle track analysis in, with nonuniform magnetic field, computer program for multi-prong, 23:29221 (SLAC-99)
particle track coordinates in wire, use of ferrite memory systems for recording, 22:6647
particle track data readout for, LI-415 vidicon automatic system for, 22:49123
particle track distortion in streamer, 22:2424
particle track film analysis for, development of flying-spot digitizers for, 21:32420
particle track film analysis of, SPDL computer system for, 22:36099 (SLAC-84)
particle track information storage in streamer, high-voltage pulsing method for, 25:8543 (DESY-70/60)
particle track measurement and analysis from gamma, vidicon system for, 21:37653(R) (UCLA-34-P-106-1)
particle track measurement and analysis, vidicon scanning system for meson (π), 21:3288
particle track photographs from, geometric distortions in, 21:6248
particle track photographs from, semi-automatic device for scanning and measuring, 21:6246
particle track recording in acoustic, extended flat electrostatic microphones for, 23:45554
particle track simulation in, use of photon beams for, 24:27412
particle tracks in acoustic, design of microphones for recording, 21:39243
particle tracks in computer-controlled manual system for film analysis of, 22:23322 (SLAC-81)
particle tracks in cross-wired, remote core readout system for analysis of, 21:16193
particle tracks in digitized multiplate range, on-line analysis of, 25:48994
particle tracks in helium streamer, use of hydrocarbons for bright localized, 21:16139 (JINR-P13-3123)
particle tracks in helium-filled streamer, method for obtaining localized bright, 21:16110 (CONF-660918-, pp 72-4)
particle tracks in helium-filled, description of highly-localized bright, 21:36387
particle tracks in magnet, geometrical and kinematical analysis of, 24:36613 (CERN-70-17)
particle tracks in magnetic field, developments in pattern recognition techniques for, 23:33509 (ANL-7515, pp 328-43)
particle tracks in magnetic spectrometer, calculation of momentum vectors for, 25:8561
particle tracks in microwave, electric field thresholds for producing, 21:39232
particle tracks in neon-filled, effects of ethanol- and water-admixtures on dispersion and width of, 21:30703(T) (ANL-Trans-426)
particle tracks in non-uniform magnetic field in, method for least-squares fit of, 24:4491
particle tracks in Omega, development of pattern recognition programs for analysis of, 25:13283 (CERN-70-21(Vol.2), pp 831-50)
particle tracks in picture description language for computer film analysis of, 22:10595 (SLAC-PUB-358)
particle tracks in SLAC streamer, photographic techniques for, 22:16907
particle tracks in streamer chamber, angular dependence of brightness of, 22:8385
particle tracks in streamer, brightness fluctuations of, 24:9691
particle tracks in streamer, computer program for filmplane reconstruction of, 24:11835 (SLAC-103)
particle tracks in streamer, measurement of relativistic increase of specific primary ionization in, 23:11858
particle tracks in streamer, method for storing, 25:44688
particle tracks in streamer, optimum operating conditions for recording, 24:4488
particle tracks in streamer, use of image intensifier for photographing, 22:4479
particle tracks in wide-gap, effects of neon—ethanol and neon—water vapor mixtures on dispersion and width of, 21:39234
particle tracks in wire, design of computer-controlled system for analysis of, 21:19922
particle tracks in wire, programming methods at CERN for pattern recognition of, 23:33508 (ANL-7515, pp 317-27)
particle tracks in, ARIANE flying-spot device for film analysis of, 23:47831
particle tracks in, ARIANE flying-spot device on-line to small computer for film analysis of, 22:2423
particle tracks in, ARIANE II automatic system for analysis of, 25:13285 (CERN-70-21(Vol.2), pp 859-78)
particle tracks in, automatic analysis of, 24:29569 (SJC-T-70-1)
particle tracks in, automatic CRT film scanning system for analysis of, 21:14440 (UCRL-17120)
particle tracks in, automatic measurement of, 25:55047
particle tracks in, automatic processing of photographic film for analysis of, 21:41240
particle tracks in, automatic system for measuring, 25:21428
particle tracks in, book on analysis of, 21:26205
particle tracks in, cartesian coordinate measurements on film scanning and measuring machines for, 23:11848 (JINR-P13-4012)
particle tracks in, CHLOE film digitizing system for analysis of, 21:34466 (CONF-660527-, pp 177-85)
particle tracks in, computer control of flying spot digitizer for film analysis of, 21:41239
particle tracks in, computer graphics patching of failed CYCLOPS events in analysis of, 25:2486 (RHEL/R-205)
particle tracks in, computer processing of data on, 23:2643 (COO-1195-147)
particle tracks in, computer program for acquisition of film information by PEPR system for analysis of, 25:13242 (CERN-70-21(Vol.1), pp 113-24)
particle tracks in, computer program for calibration of PEPR system for analysis of, 25:13245 (CERN-70-21(Vol.1), pp 177-86)
particle tracks in, computer program for processing magnetic tape data from flying spot digitizers for analysis of, 21:28200 (BNL-977)
particle tracks in, computer program for scanning data tapes for analysis of, 23:11850 (UCRL-18546)
particle tracks in, computer program for vertex finding and track matching for analysis of,, 23:9744 (UCRL-18544)
particle tracks in, computer-based HPD system for analysis of, 25:13276 (CERN-70-21(Vol.2), pp 721-7)
particle tracks in, computer-based system for film analysis of, 22:19153
particle tracks in, conference on data handling systems for analysis of, 25:13234 (CERN-70-21(Vol.1))
particle tracks in, conference on data handling systems for analysis of, 25:13263 (CERN-70-21(Vol.2))
particle tracks in, conference on flying spot devices for film analysis of, 21:41237
particle tracks in, conference on PEPR systems for analysis of, 25:6560 (MIT-2098-660)
particle tracks in, description and performance of CERN spiral reader for analysis of, 25:13236 (CERN-70-21(Vol.1), pp 19-36)
particle tracks in, description of CHLOE film digitizing system for analysis of, 22:38093
particle tracks in, description of Hummingbird automatic film digitizer for analyzing, 22:28165 (SLAC-82)
particle tracks in, design and performance of flying spot digitizer for film analysis of, 21:41238
particle tracks in, design and performance of fully automatic HPD system for analysis of, 21:22130 (NYO-2171-221)
particle tracks in, design and performance of vidicon for recording, 22:36105
particle tracks in, design of computer-controlled cathode ray film scanner for analysis of, 21:43246
particle tracks in, design of computer-controlled precision film scanner for analysis of, 21:17827
particle tracks in, design of computer-controlled flying spot digitizer for film analysis of, 21:41243
particle tracks in, design of electrophotographic system for recording, 21:39245
particle tracks in, design of scanning projector for, 21:16202
particle tracks in, design of slow-scan television system for recording coordinates of, 21:19921
particle tracks in, design of system for digitizing, 21:26155 (SLAC-PUB-300)
particle tracks in, design of video signal digitizer for film analysis of, 23:7912(P)
particle tracks in, detectors for automatic film stop devices for analysis of, 21:22126 (CERN-66-36)
particle tracks in, development of automatic scanning systems for analysis of, 21:16135 (CONF-660918-, pp 507-36)
particle tracks in, development of data processing systems at JINR for analysis of, 25:13279 (CERN-70-21(Vol.2), pp 753-60)
particle tracks in, development of film scanning and measuring center for analysis of, 21:39201
particle tracks in, development of PEPR at Nijmegen Univ. for analysis of, 25:6562 (MIT-2098-660, pp 27-34)
particle tracks in, development of PEPR systems at Oxford for analysis of, 25:6573 (MIT-2098-660, pp 250-73)
particle tracks in, development of systems for analysis of, 25:37647
particle tracks in, digital system for analysis of, 22:6651
particle tracks in, digitized microscope for analysis of, 25:13284 (CERN-70-21(Vol.2), pp 851-7)
particle tracks in, digitizer for analysis of, 21:12670
particle tracks in, DOLLY film measuring system for analyses of, 24:41691 (COO-1195-192)
particle tracks in, efficiencies of film scanners for analyzing, 23:22093
particle tracks in, fast precision digitizers on-line to computers for measuring and scanning photographic film for analysis of, book on, 21:30729
particle tracks in, film measuring systems at JINR for analysis of, 23:33523 (ANL-7515, pp 477-80)
particle tracks in, geometry reconstruction program for filtering HPD data for analysis of, 25:13273 (CERN-70-21(Vol.2), pp 679-85)
particle tracks in, glossary of on-line measuring devices for analysis of, 25:13294 (CERN-70-21(Vol.2), pp 963-77)
particle tracks in, graphical projection method for measuring, 25:35011
particle tracks in, high-speed flying image digitizer for film analysis of, 22:40459 (BNL-12679)
particle tracks in, HPD digitizer for coding, 25:44681 (IFVE-SPK/OPI-70-56)
particle tracks in, HPD system at Birmingham for analysis of, 25:13292 (CERN-70-21(Vol.2), pp 949-52)
particle tracks in, HPD system at Columbia Univ. for analysis of, 25:13253 (CERN-70-21(Vol.1), pp 311-21)
particle tracks in, HUMMINGBIRD automatic film digitizer for analysis of, 21:19903 (SLAC-PUB-251)
particle tracks in, Hummingbird film digitizers for analysis of, 24:33935 (SLAC-PUB-752)
particle tracks in, least squares fitting of, 25:55049
particle tracks in, magnetostrictive readout system for coordinate reconstruction of, 21:16176
particle tracks in, measurement techniques at CERN for film analysis of, 23:33507 (ANL-7515, pp 310-16)
particle tracks in, method for analysis of, 21:12680(P)
particle tracks in, method for estimating kinematic parameters of, 21:16175
particle tracks in, on-line film plane digitizer for analysis of, 25:13237 (CERN-70-21(Vol.1), pp 39-46)
particle tracks in, PEPR system at Heidelberg for analysis of, 25:13241 (CERN-70-21(Vol.1), pp 105-11)
particle tracks in, PEPR system at Johns Hopkins Univ. for analysis of, 25:6566 (MIT-2098-660, pp 92-106)
particle tracks in, PEPR system at Maryland Univ. for analysis of, 25:6565 (MIT-2098-660, pp 85-90)
particle tracks in, PEPR system at MIT for analysis of, 25:6570 (MIT-2098-660, pp 175-90)
particle tracks in, PEPR system at Rutgers Univ. for analysis of, 25:6567 (MIT-2098-660, pp 107-12)
particle tracks in, PEPR system at Washington Univ. for analysis of, 25:6568 (MIT-2098-660, pp 114-62)
particle tracks in, PEPR systems at Indiana Univ. for analysis of, 25:6564 (MIT-2098-660, pp 76-84)
particle tracks in, performance of Oxford PEPR system for analysis of, 25:13239 (CERN-70-21(Vol.1), pp 61-88)
particle tracks in, performance of reverse-developed film measured on HPD for analysis of, 25:13286 (CERN-70-21(Vol.2), pp 879-905)
particle tracks in, performance of Sweepnik I for analysis of, 25:13252 (CERN-70-21(Vol.1), pp 293-308)
particle tracks in, photographic film reader for analysis of, 21:3239 (BNL-969)
particle tracks in, photographic film scanning and measuring system for analysis of, 21:19924
particle tracks in, POLLY automatic film scanning system for analysis of, 21:34466 (CONF-660527-, pp 177-85)
particle tracks in, POLLY system at Glasgow Univ. for analysis of, 25:13255 (CERN-70-21(Vol.1), pp 357-70)
particle tracks in, Princeton Automatic Track Reader for analysis of, 25:13250 (CERN-70-21(Vol.1), pp 273-83)
particle tracks in, program control of data link between computers and projectors for analysis of, 21:19896 (JINR-P10-3172)
particle tracks in, pulse shaper for television system for measurement of, 25:48998
particle tracks in, pulse shaping devices for measuring, 25:44680 (IFVE-SPK-70-59)
particle tracks in, SASS computer-controlled scanning system for film analysis of, 22:2419 (UCRL-17695)
particle tracks in, SATR system at Wisconsin Univ. for analysis of, 25:13262 (CERN-70-21(Vol.1), pp 505)
particle tracks in, SLAC automatic film digitizer for analysis of, 22:47373 (SLAC-PUB-426)
particle tracks in, SMP system at UCLA for analysis of, 25:13249 (CERN-70-21(Vol.1), pp 243-60)
particle tracks in, SPASM scanning and measuring system for analysis of, 23:17798 (HUX-2752-39)
particle tracks in, spiral reader system at Weizmann Institute for analysis of, 25:13293 (CERN-70-21(Vol.2), pp 953-62)
particle tracks in, status of PEPR system at Heidelberg for analysis of, 25:13246 (CERN-70-21(Vol.1), pp 187-96)
particle tracks in, status of PEPR system at MIT for analysis of, 25:13248 (CERN-70-21(Vol.1), pp 233-42)
particle tracks in, status of Yale PEPR for analysis of, 25:6561 (MIT-2098-660, pp 9-26)
particle tracks in, stringing method for analysis of, 25:55048
particle tracks in, study of Σ leptonic decays using HPD film digitizing system for analysis of, 23:33504 (ANL-7515, pp 256-65)
particle tracks in, Sweepnik II for analysis of, 25:13251 (CERN-70-21(Vol.1), pp 285-92)
particle tracks in, system for automatic film analysis of, 22:21316 (RT/EL-(67)13)
particle tracks in, testing program for generation of fictitious tracks in geometrical reconstruction of, 22:4473 (JINR-P10-3526)
particle tracks in, transistorized control circuit for semi-automatic film scanner for analysis of, 22:25672(T) (NP-tr-1651)
particle tracks in, use of CDC 160A computer for analysis of, 22:16906
particle tracks in, use of CERN HPD I flying spot digitizer for film analysis of, 21:41241
particle tracks in, use of computer for selection of, 21:39236
particle tracks in, use of computer-controlled flying spot digitizer for analysis of, 21:26190
particle tracks in, use of computers in flying spot digitizer data processing systems for analysis of, 21:41249
particle tracks in, use of LUCIOLE flying spot digitizer for film analysis of, 21:41242
particle tracks in, use of on-line computers for automating analysis of, 21:16250
particle tracks in, video assisted scan table for analysis of, 25:13238 (CERN-70-21(Vol.1), pp 47-58)
particle tracks in, vidicon scanning and measuring system for analysis, 21:28228
particle tracks in, vidicon system for on-line or magnetic-tape recording of, 21:43255
particle trajectories in, precision of reconstruction of, 21:1598
performance, 22:23260 (CEA-Bib-102)
performance for polarization measurement of 750-MeV/c cosmic muons, 21:16156
performance for studying $e^+ + e^-$ interactions in colliding beams, 24:18059 (CERN-69-29, pp 61-95)
performance of acoustic, for recording multitrack events, 23:33525
performance of acoustic, using sonic wave reflection, 25:21432
performance of aluminum-plate, for proton polarization analysis at 490 MeV, 24:29576
performance of cylindrical wire, with ferrite registration, 23:47823
performance of digitized, 24:26571
performance of digitized wire, in spectrometer, 21:23314 (BNL-994, pp 70-102)
performance of filmless spark chamber spectrometer on-line to computer for measuring real part of $\pi + p \to \pi + p$ amplitude in Coulomb interference region, 23:34534 (JINR-P1-4445)
performance of helium-filled and neon-filled streamer, for protons, 22:8386
performance of large gap cylindrical, for studying $\pi^- + p \to \pi^0 + \pi^0 + n$ interactions at 2 GeV/c, 23:47818

performance of large magnet, for detection of neutral particles produced in $K^- + p$, anti $p + p$, and $\pi^+ + p$ interactions, 21:6215
performance of magnetostrictive wire, in magnetic field, 23:11861
performance of multi-electrode, for determining momentum spectra and composition of particle beams, 24:27415
performance of multiplate, for measuring energy spectra of electrons and photons, 23:45552
performance of multiwire, effects of surrounding gases on, 24:48272
performance of optical, with wire electrodes, 25:35008 (LNF-70/44)
performance of plastic phosphor, for neutron dosimetry in tissues, 21:26418(R) (PG-Report-771)
performance of streamer, for detecting x-ray transition radiation from electrons, 25:26515
performance of streamer, for detecting x-ray transition radiation from high-energy electrons, 24:46512
performance of wire, 21:45398
performance of wire, for low-level alpha detection, 24:36562
performance of wire, for measuring $\pi^- + p$ interactions, 24:46511 (SLAC-PUB-801)
performance of wire, with large area and two coordinate readout, 21:8604
performance of wire, with magnetic analyzer for studying (p,2p) reactions, 25:17619
performance of wire, with on-line computers for studying meson (K^+) and meson (K^-) decay, 25:2491
performance of wire-to-plane, for detecting fission fragments, 23:6304 (EUR-4077)
performance on-line to ASI 6020 computer for studying $\pi^+ + p \rightarrow K^+ + \Sigma^+$ interactions, 23:33502 (ANL-7515, pp 233-43)
performance with gas discharge and energy-loss in thin films for identification of high-energy particles, 22:12641
photographic film analysis for, design of automatic flying spot digitizer for, 21:6195 (DESY-66/25)
photographic film reader system for, 21:3239 (BNL-969)
photographic system for, 22:11824
power supply circuit for, 25:29374
power supply for multi-gap, 23:11853
power supply for streamer, 24:11839
preamplifier for magnetostriction wire, 24:36617
properties of helium-filled, with rubber packed gaps, 21:39242
properties of lead-electrode, for detection of high-energy electrons and photons, 24:11837
properties of streamer, containing xenon, 25:42149
properties of thin, with carbohydrate mixtures in filling gas, 25:18657
properties of track-following, 21:16109 (CONF-660918-, pp 71)
properties of wide-gap streamer, 23:47758
proton track density per unit length in helium-filled streamer, momentum dependence of, 23:42602
pulse generator for isotropic monogap streamer, design and performance of, 22:33664
pulse generator for streamer, design of high-voltage nanosecond, 23:31554
pulse generator for streamer, design of high-voltage, 21:45401
pulse generator for wide-gap, design and performance of high-voltage, 23:26576
pulse generator for wire, high-voltage ceramic thyratron, 23:2657
pulse generator for, design and construction of high-voltage, 21:12662
pulse generator for, design and performance of 25 kV, 21:39244
pulse generator for, design and performance of 375-kV Marx, 21:19933
pulse generator for, design and performance of nanosecond, 23:26574
pulse generator for, design of, 22:8384 (JINR-P13-3570)
pulse generator for, design of strip line, 24:29570
pulse generator for, with gaps of 1.0 to 15 cm, design of high voltage, 22:38082
pulse generators for, design of high-current, 23:24463(T) (SLAC-Trans-94)
pulse generators for, design of high-voltage, 23:29223(P)
pulse measurements for, attenuator for high-voltage nanosecond, 22:23324
pulse propagation in magnetostriction, 21:6275
pulse shaping transmission-line transformer for large streamer, 23:29224(P)
pulse transformer for large wire, 24:4489
pulses from, use of CRT tubes for scanning, 21:28304 (KFK-552)
pulsing of wire, system with four hydrogen thyratrons for, 22:43098 (CERN-68-26)
quenching circuit for, 25:37643(P)
radiation targets for, use of liquid hydrogen, 21:16133 (CONF-660918-, pp 389-408)
readout and monitor system for multiwire, by magnetostrictive delay line, 21:43258
readout for wire, in magnetic fields, capacitor, 25:35017
readout methods for, filmless, 25:42138
readout on pulsed electrodes of, development of ferrite core, 21:10650
readout system for operation in magnetic field, electromagnetic delay line, 24:39353
readout system for wire, delay line, 25:18793
readout system for wire, experience with static magnetostrictive, 25:49001
readout system for, design of high-sensitivity, used in strong magnetic fields, 22:40466
readout system for, design of nonmagnetic digital, 22:40467
readout system for, development of piezoelectric, 24:27403 (JINR-P13-5016)
readout system for, matching problems and parasitic effects in magnetostrictive, 21:16107 (CONF-660918-, pp 60-2)
readout system for, piezoelectric, 25:42147
readout system of wire, design of modular data acquisition system for magnetostrictive, 22:30857 (RHEL/R-157)
readout systems for, cost-effectiveness study of, 25:13266 (CERN-70-21(Vol.2), pp 581-606)
readout systems of, effects of backing and matching on performance of ceramic piezoelectric transducers for, 21:39216
recording system for wire, pulse-height analyzer, 24:19217
recording systems for multigap, description of television, 23:14034
resolution for detection of electrons and photons, energy, 24:11836
resolution of streamer, for events with unobserved interaction vertex, 23:7794
response of multiplate, to electrons at 1 to 14 GeV, 25:6578
response of wire-plate, in air, 22:40462
self-acting coincidence of, with coincidence installation, 21:28258
sensitive time of thin-gap, use of Freon-12 for decreasing, 21:16150
spark brightness in wide gap, effect of ionization loss on, 25:21430
spark brightness in, relation of ionization to, 25:6558 (IFVE-SEF-69-72)
spark formation in, effects of several electron avalanches on, 21:45384
spark formation in, mechanism of, 24:39355
spark localization in magnetostriction, 21:28226
spark location accuracy in wire, with magnetostrictive delay line readout, 21:30691 (COO-1545-17)
spark position determination in sonic, (E), 21:35044 (BMwF-FBK-67-44)
spark position shift in electric and magnetic fields, 21:6244
testing of streamer, 22:49125
testing of thin-foil, method using beta source for, 24:14308
testing of wire, design of multiple track generator and readout system for, 25:48995
time properties of helium and helium—hydrogen, 25:42136 (JINR-P13-5828)
time resolution measurements of multiwire, 21:43263
time resolution of pulsed, total electron attachment coefficient of carbon tetrachloride in helium for control of, (E), 23:38312 (BNL-13828)
trigger circuit for, 22:28172(P)
trigger circuit for, design of, 21:6278
trigger circuit for, thyristor high-voltage pulse generator, 25:21427
trigger circuits for, calculation of time behavior of high voltage pulses for determining characteristics of, 23:50170
trigger circuits for, reduction of transit time in photomultiplier tubes of, 23:47820
trigger for studying coherent π^- interactions with nuclei at 6 GeV/c, lithium-drifted silicon, 23:7797
trigger for, scintillation detector hodoscope, 24:39356
triggering gas-filled, design of pulse generator for, 22:19159(P)
triggering of, design of wire proportional counter arrays for, 23:40993 (EUR-4289, pp 247-50)
triggering of, for missing mass studies in high-energy physics, 23:38320
use as momentum analyzer for inelastic scattered pions and protons at 5 to 30 GeV/c, 21:16106 (CONF-660918-, pp 39-40)
use for detecting cosmic electrons and photons, 21:6242
use for detection and measurement of cosmic showers, 23:10961(R) (NP-17704)
use for detection of low-energy charged particles, 21:30709
use for identifying particle pairs produced in electron—positron colliding beams, 21:16126 (CONF-660918-, pp 215-19)
use for measuring momentum spectrum of high-energy beams, 23:7795
use for measuring nuclear properties of short-lived alpha emitters, (E), 21:4315
use for particle beam momentum analysis, 21:6243
use for registering particles in a magnetic spectrometer, 21:8609
use for sequential imaging of cesium-131 labeled cesium chloride and cesium acetate distribution in rats, 21:26547
use for sequential imaging of iodine-125 distribution in mice, 21:26547
use for spatial detection of neutrons, 21:3280
use in hodoscope—spark chamber detection system of BNL AGS, 22:37213 (BNL-12539)
use in magnetic pair gamma spectrometer, 23:7780
use in magnetic spectrometer system for studying $p + N$ interactions at 1.0 GeV, 21:39260
use in measuring deflection of charged particles in magnetic spectrometers, 21:19923
use in momentum spectrometer for studying $\pi^- + p \rightarrow \Lambda^0 + K^0$ interactions, 23:7798
use in momentum spectrometer for studying $\pi^- + p$ and $K^- + p$ interactions at 7.7 GeV/c, 23:7796
use in spark-imaging camera for mapping radioisotope distribution patterns, 22:2345 (ORNL-IIC-10(Vol.1), pp 268-81)
use in spectrometer systems, 21:16133 (CONF-660918-, pp 389-408)
use in spectrometry of space radiations, (E), 25:49635 (AD-716843)
use in studying meson (μ^-) capture by atoms and nuclei, 21:16111 (CONF-660918-, pp 79-81)
use in system for measuring charge composition of primary cosmic radiation from $Z = 1$ to 50 at 10 GeV to 100 TeV, 22:40412
use of acoustic, in analysis of high-energy physics experiments, 21:26145 (CONF-660722-1)
use of digitized, for experiments in high energy physics, 21:14424 (BNL-11031)
use of fission-foil wire, for spatially continuous neutron flux mapping, 23:5793
use of low-pressure, as high-resolution spectrometer for 1.0-GeV protons, 21:39229
use of multiplate, for measurements of elastic $\pi^+ + p \rightarrow \pi^+ + p$, 21:17837
use of one-dimensional sonic, with double-focusing magnetic spectrometer, 21:28235
use of proportional-detector-controlled streamer, for recording stopping of slow mesons, 22:6648
use of streamer, for detection of fractionally charged particles and multicharged nuclei, 24:9691
use of streamer, for studies of electron pair photoproduction in nuclear field and in atomic field of neon, 21:42244
use of wire, for measuring positron spectra from muon decay, 21:29434
use of wire, with magnetostrictive readout on-line with computer for proton polarization measurements, 21:39228
use with Cherenkov detectors for detection of meson (μ) pair production by cosmic mesons (μ), 21:35257
use with Cherenkov spectrometer for measuring effective mass in $\gamma\gamma$, e^+e^-, $\pi^0\gamma$, and $\pi^0\pi^0$ decays, 21:24216
use with electron linear accelerators, 21:30720
use with image intensifiers for radiography, 22:4543
use with iron absorbers and scintillation detectors for spectroscopy of high-energy particles, 22:21347(T) (AD-666080)
use with magnetic spectrometers, for determining momenta of cosmic muons at 10 GeV/c to 5 TeV/c, 21:34465 (BMwF-FBK-67-33)
use with nuclear emulsion for location of primary cosmic particle tracks, 24:14310
use with scintillation counters for detection of quarks, 23:1628
use with storage rings, 22:11823
use with threshold gas Cherenkov counter for measuring electron spectra in K^+ decay, 21:26178
use with vidicon readout system as double arm spectrometer for Argonne Synchrotron, 21:16108 (CONF-660918-, pp 63-67)
voltage pulsing system for, with solid-state switch, 24:25302

RADIATION DOSE
see also Linear Energy Transfer
see also Radiation Dosimetry
analysis of external, to personnel in United Kingdom during 1960 to 1965, 23:16310
analysis of measured and stated values of, from radiotherapy, 23:50509
angular distribution in uniform spheres, internal scattered γ, 23:45730 (ANL-7535, pp 137-41)
assessment of, resulting from reactor accidents, survey of computer programs for, 23:50546
attenuation by shielding in industrial radiography, calculation of γ, 23:43791
book: Basic Norms for Health Protection of the Population and Industrial Personnel Against Hazards of Ionizing Radiation, 23:6454
book: Clinical Radiation Pathology, Vol. 2, 23:8081
book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
book: Report of Committee IV on Evaluation of Radiation Doses to Body Tissues from Internal Contamination due to Occupational Exposure, ICRP, 23:50605
book: Studies in Space Radiobiology, 23:50916
book: The Relative Biological Efficiency of Radiation. Radiation Time Factor, 23:50884
build-up in space suits, vehicles, and structural materials on moon, 23:33903
calculation and measurement for large-area ecological irradiator, 23:26404 (EGG-1183-2203)
calculation and measurement in clinical radiation physics, development of computer system for, 25:26755
calculation and measurement of neutron, on and near surface of shipping container for spent light-water reactor fuels, 25:39692
calculation at various distances from cylinder, computer program for, 23:35465 (ORNL-TM-2592)
calculation following fast reactor core failure accident, 25:57113 (HEDL-TME-71-33)
calculation for bones, liver, lungs, and kidneys following inhalation of plutonium-239 oxide aerosols, use of inhalation model and computer analysis for, 22:23503 (BNWL-SA-1540)
calculation for internal sources at points within spheres, γ, 23:45731 (ANL-7535, pp 141-4)
calculation for man during scanning with selenium-75-labeled selenomethionine, whole-body β and γ, 23:4951
calculation for man, methods for cobalt-60 γ, 23:50490
calculation for man, recommendations for diagnostic and therapeutic x, 23:2834
calculation for microscopic volume of tissues, method for, 23:17805 (JAERI-5017, pp 143-8)
calculation for therapy, geometric parameters for γ, 23:4970
calculation in food processing, methods of, 23:35970
calculation in human nervous system following clinical use of iodine-131-labeled sodium iodide, 23:43768
calculation in space, conference on, 24:35227
calculation inside satellite, computer program for, 23:48050(T) (ORNL-tr-2201)
calculation of absorbed, correction factors for, 24:19317
calculation of absorbed, from ionization produced in air, 23:35747
calculation of absorbed, from radioisotope scintigraphy, 23:43773
calculation of absorbed, in human survivors of atomic bombing at Hiroshima in relation to chromosome aberrations in circulating lymphocytes, 23:50517
calculation of absorbed, internal conversion coefficients for, 24:19318

calculation of absorbed, of scattered radiation, x-ray method for, 23:20244
calculation of absorbed, review of equations for, 22:49329
calculation of accumulated, in salt surrounding Salt Vault-stored solid wastes, 25:37563 (ORNL-TM-3403)
calculation of annual, from nuclear power plant-released krypton-85 in atmosphere to year 2000, 25:54781(T) (JPRS-53174)
calculation of distribution of cobalt-60 beam, 23:16332 (NIRS-7, pp 69-79)
calculation of far-field exposure contribution to, in experimental houses, 24:46453
calculation of in-phantom, from plutonium-238 heat source, Monte Carlo method for, 24:20948(R) (BNWL-1308-1)
calculation of in-phantom, from plutonium-238 heat source, Monte Carlo method for, 24:9595(R) (BNWL-1256)
calculation of integral, for cobalt-60, 23:20225
calculation of integral, for therapy using cobalt-60 γ rays and linear accelerator bremsstrahlung, 24:23210
calculation of lethal, for human bone marrow cells, use of phantoms for, 23:6474
calculation of lethal, in relation to bone marrow syndrome in man and other mammals, γ, 23:10043 (BNL-12950)
calculation of maximum permissible laser, to man, method for, 21:43394
calculation of maximum permissible, for man and mammals, standards for, 22:19325 (BNL-50073)
calculation of maximum permissible, for uranium miners, 21:14671
calculation of maximum permissible, laser, 21:16339 (NP-16327)
calculation of maximum personnel, operation safety for power reactors by, 22:48707
calculation of medullary, to children during radiodiagnosis, methods of, 23:29496 (CEA-CONF-1239)
calculation of minimum, for sterilization of disposable blood donor sets and syringes, 23:38911
calculation of neutron fluence-to-kerma factors for human body from 0.025 eV to 15 MeV, 23:50528
calculation of normalized tissue, for therapy in man, 23:38592
calculation of organic material-absorbed, in ionizing radiation fields, 24:10214 (CERN-69-12)
calculation of permissable, for cardiac muscle, lung, skin, and spinal cord, use of computer in, 21:20196
calculation of permissible, from contaminated drinking water, 22:6828
calculation of permissible, from radioisotopes, method and unit for, 22:45547
calculation of permissible, of short half-life fission products to bone, kidneys, and thyroid, 21:8834
calculation of photon, around high-energy proton accelerators, 23:23580 (ORNL-TM-2498)
calculation of residual photon dose rate in high-energy proton accelerators, 24:20293
calculation of residual photon, around high-energy proton accelerators, 23:46882
calculation of sorption function for 0.662 to 1.46 MeV γ, 23:45732 (ANL-7535, pp 144-7)
calculation of SRL area, from 1000 MW reactor accident, 23:7638 (DP-1163)
calculation of total integral and tumor, for bronchial carcinoma, 23:20223
calculation of total, from high-power cobalt-60 sources, 24:48233
calculation of x-ray isodose curves for lungs, 23:12130
calculation of, and dose-equivalent rates to man in atmosphere from galactic cosmic rays, 24:37281 (HASL-228)
calculation of, at various distances from rocket reactor test, 21:12838 (LA-3583)
calculation of, in tissues for solar-flare protons, 24:32883
calculation of, to supersonic aircraft travelers from solar-flare protons, 24:35109
calculation to children following administration of radioactive pharmaceuticals, 23:12111
calculation to human gonads following inhalation of krypton-85, 23:16292 (RD/B/N-1274)
calculations following injection of Thorotrast in human patients and rabbits, effects of decay products of thorium-232 on, 23:6432(T) (ANL-Trans-672)
calculations for astronauts during flight to moon, effects of solar flares on, 23:6473
calculations for astronauts living on moon or other planets, cosmic and solar, 23:31749 (N-69-19054)
calculations for bone marrow, of man exposed to atomic bomb at Hiroshima, β, γ, neutron, 23:38745
calculations for gonads and mouth of human patients during dental radiography, 23:38573
calculations for ground surface following Gasbuggy Event, 25:37509 (PNE-1008)
calculations for high-energy protons in tissues, effect of delta-ray buildup on, 23:9968
calculations for human organs following ingestion of radioisotopes, methods for, 23:6435 (BNWL-SA-2049)
calculations for human population following stack disposal of radioactive wastes at Ispra, 25:39608
calculations for human populations consuming sea food from contaminated waters, methods for, 24:21093 (CEA-CONF-1341)
calculations for human populations consuming seafood from contaminated waters, methods for, 24:21095 (CEA-CONF-1465)
calculations for human populations from underground nuclear explosions, development of equations for, 25:4172
calculations for man following industrial use of paints containing radium-226 or radium-228, α and γ, 23:9937(R) (NYO-2181-5(Vol.1))
calculations for man from plutonium-238, promethium-147, and thulium-171 heat sources for artificial heart, 23:26459 (ORNL-4283)
calculations for nuclear power plant sites, probability analysis of atmospheric dispersion for, 25:54008
calculations for reactor site accident, computer program for, 24:38585
calculations for tissues of man following inhalation or ingestion of tritium oxide, β, 23:4893
calculations for uranium miners, methods for, 23:6438 (NP-17667)
calculations in high-level gamma irradiation facility, 23:20255
calculations of absorbed and exposure, applications of LET for, 25:8671 (ICRU-16)
calculations of maximum internal, to man from fallout radionuclides, 23:8004 (UCRL-50163(Pt.4))
calibration and planning for high energy electron therapy, 23:6534
calibration of absorbed, approach of National Physical Laboratory to service, 23:50499
calibration of, policy of National Research Council of Canada on high-energy, 23:50498
comparison for human patients following diagnosis using radiography or radioisotope scanning, 23:50542
comparison for human patients undergoing heart catheterization using fluoroscopy cerium-144-labeled catheter and γ scintillation camera, γ and x, 23:2860
comparison of dosimetric film in Euratom countries, 23:12112
comparisons for reactor accidents and explosions of supernovae, 23:4971
conference on theoretical problems in measurement of, 23:45759
control and reduction of, to human patients during diagnostic radiography, radioisotope scanning, or radiotherapy, methods for, 23:6456
control in electron accelerators use for increasing elasticity and thermal stability of polyethylene tubing, 23:15317
control methods for reactor maintenance personnel, 25:59926
control of medical, to man, methods for, 23:48052
conversion formula for use in therapy, 23:43769
cumulative, for industrial personnel, values for, 23:22316
data tabulation on dose uniformity ratio and minimum, for design of gamma irradiators, 25:29250 (BNL-50145(Rev.))
derivation of numerical values for, 25:11090
determination and distribution of scattered, from betatron in phantom and treatment room, 23:2835
determination from thermal expansion of material measured with strain gage, 23:17809
determination in man, maximum permissible tritium oxide β, 22:45543
determination of absorbed, in reactor core materials, 25:60160 (STI/DOC-10/127)
determination of LD 50/30, in primates, α and proton, 22:12928
determination of $LD_{50}/_{30}$ γ, for adult locust, 22:40868
determination of LD50/30, for ducks, 22:19420
determination of maximum permissible, 21:22422
determination of maximum permissible occupational exposure, for man, 22:38320
determination of maximum permissible, for population from iodine-131 in milk, 21:26414(R) (NP-16660)
determination of permissible, in diagnostic radiology, 21:16354
determination of permissible, to astronauts during spaceflight, 22:38474
distribution during telecobalt therapy, use of mathematics for calculation of γ, 23:33795
distribution during teletherapy, method for measuring effects of field surface and pendular angle on cobalt-60 γ, 23:33794
distribution during therapy, computer program for isodose curve transformations for cobalt-60 γ, 23:45748
distribution during therapy, methods for estimating x, 23:33793
distribution for electron beam therapy, determination of, 23:6529
distribution from electron pencil beam therapy, calculation of, 23:6530
distribution from multiple-source arrays used for irradiation of large land areas, 24:9598 (EGG-1183-2205)
distribution in atmosphere from 14 MeV neutron source as function of altitude, (E), 24:31513
distribution in biological materials in relation to dosimetry of high-energy electrons, 23:50496
distribution in cheek of man during therapy of carcinomas, isodose curves for iridium-192 and radium, 23:8034
distribution in cylinders, external γ, 23:45733 (ANL-7535, pp 147-9)
distribution in heterogeneous media, method for calculation of, 21:20199
distribution in homogeneous body, γ and x, 23:20314
distribution in homogeneous medium around point source of beta particles, calculation of, 23:2847
distribution in human phantoms, effects of geometric configuration on proton, 23:14197
distribution in inhomogeneous materials and patients during radiotherapy, calculated and measured, 23:50503
distribution in irradiated human body, Doza analog computer for estimating, 23:31567
distribution in irradiation facilities from plaque-type gamma sources, data tabulations on, 24:25159 (BNL-50145)
distribution in irradiation facilities from plaque-type gamma sources, data tabulations on, 24:25160 (BNL-50147)
distribution in lungs of mice following inhalation of promethium-147, β and γ, 23:11990 (SZS-11/68, pp 21-9)
distribution in man during high energy electron therapy, 23:6525
distribution in man during therapy with electrons from linear accelerator, 23:6532
distribution in man following therapy for cervical cancer, comparative external and internal γ, 23:12061 (CNEA-215)
distribution in man, method for constructing isodose curves for, 21:20258
distribution in mandibles of man during oral radium therapy, design and effectiveness of apparatus for reduction of, 23:2893
distribution in organs during diagnostic procedures using radioisotopes, methods for calculating, 23:50515
distribution in phantoms, calculation of, from photon fluence, 23:45753
distribution in rectangular fields from γ, isodose curves for, 23:20313
distribution in therapy, description of computation service for, 23:50764
distribution in tissue phantom in relation to space radiations, 23:14166
distribution in tissue-like phantoms, quality factor for thermal neutron, 23:29500 (INR-P-965)
distribution in vicinity of tissue inhomogeneities, analysis of electron, 23:50501
distribution measurements in phantoms, semi-automatic equipment using densitometer and x-ray film for, 24:44357
distribution of high-energy neutron, in water phantom, 23:22297
distribution of moving-beam electron, from linear accelerators, use of computer for calculating, 24:23198
distribution of reactor off-site, use of measured meteorology data and WRED code for estimation of, 23:28530
doubling, for polygenic mutations in Arabidopsis, γ, 23:20156
effects of maximum permissible, on human life span, 23:16299
effects of shock waves on nuclear explosion-produced, 23:498
effects on biological response, 21:6517
effects on blood cell count in man during therapy for leukemia, extracorporeal strontium-90 β, 23:45852
effects on chromosomes in male mice, whole-body x, 23:45923
effects on chromosomes of personnel, aberrant, 23:12056
effects on clinical course of radiation injury, 23:22309
effects on Clostridium botulinum E hazard in γ-irradiated vacuum packed haddock meat, 23:18155 (CONF-681006-, pp 67-71)
effects on Clostridium botulinum E toxin production in γ-irradiated codfish meat, 23:18154 (CONF-681006-, pp 63-6)
effects on Clostridium botulinum E toxin production on shrimp meat, 23:18156 (CONF-681006-, pp 73-6)
effects on cobalt-60 therapy of bronchial carcinomas in man, 23:38733
effects on coffee leaf miner moths, determination of response curve for γ, 23:10129 (NYO-2043-173, pp 49-51)
effects on colony-forming ability and genetic marker activity in uv-irradiated Hemophilus influenza, 23:20154
effects on count of peripheral blood cells in mice, whole-body x, 23:14264
effects on cultured Amoeba, 23:14244
effects on development of necrosis of human lips following therapy for cancer, combined interstitial radium γ and x, 23:5034
effects on development of radiation sickness, tables on, 23:22335
effects on development of vaccine virus in chick embryos, x, 23:10125
effects on diameter of mushroom caps, γ, 23:20452
effects on erythrocytes in rats, x, 23:45865
effects on eyes and buds of potato tubers, γ, 23:20424
effects on germination of seeds, γ, 23:20429
effects on germination, growth, and yield of corn, γ, 23:20423
effects on glycogen content of guinea pig retina, x, 23:20371
effects on gonads of rats, effects of age on x, 23:38789
effects on growth of tibia bone in mice, acute and fractionated x, 23:33841
effects on γ-radiosensitivity of aspartate carbamoyltransferase, combined effects of substrate concentration on absorbed, 23:7927(R) (COO-690-32)
effects on incidence of genetic and somatic injuries in man, review of, 23:10106
effects on mitosis in wheat seedlings, x, 23:45952
effects on morphological changes in dorsal bulb section of rabbit eye, 23:20374
effects on mortality of housefly pupae, x, 23:20320
effects on mutation rate in γ-irradiated aromatic and medicinal plants in India, 23:20426
effects on mutation rate in x-irradiated corn tassels, 23:22252
effects on mutations in mice in relation to filial generations, x, 23:20151
effects on organoleptic properties of sliced salt pork, 23:20453
effects on production of flower buds, fruit size, and seed weight of prickly pear cactus, 23:20425
effects on prognosis in injuries, 23:22332
effects on reactions of blood plasma with lysate of autoerythrocytes of mice, protective effects of AET against, 23:786
effects on rectovaginal region in man following therapy for cervical cancer, 23:45938
effects on skeletal growth in mice embryos following exposure in utero, x, 23:45911
effects on skin of mice, effects of fractionation on x, 23:20366
effects on spermatogonia of silkworm larvae, 21:20135
effects on survival of hamster cells, effects of fractionation on x, 23:38479

effects on survival of lymphocytes in mice, 23:22423
effects on survival of mice, chronic x, 23:14267
effects on therapy of human tumors, effects of rate on, 23:8045
effects on therapy of malignant lymphomas in man, 23:45838
effects on tumor cells, effects of fractionation on, 23:35823
effects on yield and size of onions, 23:45951
equivalent from neutron energy spectra, determination of, 23:50526
estimates for absorbed fractions from monoenergetic photon sources uniformly distributed in human organs, phantom study of, 24:14497
estimation for population from commercial use of nuclearly stimulated natural gas, 24:41506 (CONF-700101-(Vol.1), pp 831-49)
estimation for populations from nuclear explosions in sea-level canal construction, computer code for β and γ, 23:43756 (CTC-8)
estimation in human populations following nuclear excavation, development of models for, 23:29510
estimation of equivalent residual, 21:3403 (RM-5048-TAB)
estimation of gonadal, during diagnosis, using phantom measurements, 23:50488
estimation of high energy, 24:27586 (CONF-690540-, pp 586-95)
estimation of inhomogeneity of electron, in thick materials, 25:32110
estimation of internal, to man following ingestion of contaminated food, 23:20190 (CONF-680507-, pp 279-306)
estimation of ionizing, to rats in Brazil following inhalation of radon, thoron, and daughters, 23:22287 (NYO-3086-8, pp I.1-42)
estimation of potential, to man from radioactive waste disposal into estuaries, lakes, and rivers, methods for, 25:37564 (STI/PUB-283)
estimation of radioisotope, in animal tissues, 23:20082(T) (NRC-TT-1345)
estimation of, for manned space operations, (T), 24:35526
estimation of, to man from strontium-90, equations for, 23:35724 (CEA-CONF-1282)
estimation of, to supersonic aircraft travelers, (E/T), 24:35110
estimation to critical organs by energy-independent personnel dosimeters, 23:18034
estimations related to peaceful uses of nuclear explosives, 23:9681 (ORNL-4316, pp 1-69)
evaluation at external surfaces of electron microprobe for analysis of radioactive materials, 24:475
evaluation by film dosimeters, use of, in planning for radiation protection, 23:38607
evaluation of expected, in contaminated areas, 23:20195 (CONF-680507-, pp 362-75)
evaluation of maximum permissible microwaves, 21:14734
fractionation effects on radiosensitivity of cells, tissues, and tumors in man, 23:45854
fractionation in cancer therapy, evaluation of split-course x, 24:29840
fractionation in moving strip therapy of abdominal neoplasms, 24:21256
fractionation in radiotherapy, considerations for optimal, 24:29829
fractionation in radiotherapy, supereffective, 24:29830
fractionation in therapy in comparison with split-dose intensive method, 24:29835
fractionation in therapy of human tumors, effects of hyperbaric oxygen on, model for, 24:29833
fractionation in therapy, dose-response for, 24:29831
fractionation of therapeutic, effectiveness of reduced cobalt-60 γ, 24:29839
fractionation of therapeutic, in relation to content of anoxic cells in tumors in mice, x, 23:43851
fractionation of whole-body, effectiveness of, for therapy, 24:29834
fractionation of, effects of, on cultured human cells, fast neutron and x, 23:45864
fractionation of, effects of, on erythroid cell response of bone marrow and spleen in mice, 24:14603
fractionation of, effects of, on incidence of chromosome aberrations in bone marrow cells of mice, 23:16262
fractionation of, effects of, on inoperable lung carcinomas, cobalt-60 γ, 23:38734
fractionation of, effects of, on pattern of recovery in x-irradiated mice, 23:41353
fractionation of, effects of, on phagocytic function of RES, in rats, x, 23:35911
fractionation of, effects of, on phagocytosis in rats, 23:14257
fractionation of, effects of, on radiosensitivity of man following surgery for tumors, 23:33796
fractionation of, effects of, on survival of Chlamydomonas, x, 23:12236(T) (AEC-tr-6646/4A, pp 11-15)
fractionation of, effects of, on survival of irradiated mice, statistical analysis of cell population damage as basis for, 24:12263
fractionation regime for use in therapy of human neoplasms, 24:21246 (CONF-700105-2)
inhomogeneities in fast electron, methods for eliminating, 23:38595
inhomogeneities in, methods for decreasing, 24:50522
isodose curves for linear accelerator, in therapy, construction of, 23:9959
isodose plotter interface for analog display, design of, 23:38374
LD 50/30, for neonatal swine, 24:14599
LD10, for Chlamydomonas, in relation to optimum dose for mutagenesis, 24:23169
LD10, for TMV, 24:14631
maximum expected individual, from radioactive cloud in relation to proposed tolerance doses, effects of source distance on calculation of, 23:35730(T) (ORNL-tr-2157)
maximum fallout, to man from thermonuclear devices, method for predicting, 23:8003 (UCRL-50163(Pt.3) (Rev.1))
maximum internal, to man from fallout of radioisotopes on agricultural land, calculation of, 23:41318 (UCRL-71833)
maximum permissible annual, to personnel at Oak Ridge National Laboratory during 1968 in relation to actual incidence of contamination, whole-body, 23:41336(R) (ORNL-4423)
maximum permissible electromagnetic, 21:26446
maximum permissible environmental, medical, and occupational, external and internal, 25:19008 (NCRP-39)
maximum permissible external and internal, IAEA (1967), 25:46862
maximum permissible ICRP recommendations for, 25:11090
maximum permissible internal, to organs and whole body of man from fallout, contribution of individual radioisotopes to, 23:29476 (UCRL-71443)
maximum permissible laser, for personnel, 24:32034
maximum permissible natural background, to man, 22:47577 (NP-17191)
maximum permissible neutron, for human skin, fetuses, and personnel, recommendations of National Council on Radiation Protection, 25:19007 (NCRP-38)
maximum permissible, basic FRC, ICRP, and NCRP standards for human, 25:49204 (UCRL-72848)
maximum permissible, criteria for astronauts during space flight, 24:39509
maximum permissible, criteria for personnel, 24:19326
maximum permissible, determination for deposition of radioisotopes in human bones and respiratory tract, ICRP recommendations for, 24:27581 (CONF-690540-, pp 329-55)
maximum permissible, determination of, Government White Paper on, 24:12101
maximum permissible, estimation of effects of, on mortality rates, 23:14255
maximum permissible, evaluation of assumptions and methods used in calculating, 25:55254
maximum permissible, external and internal, 22:43307(R) (ORNL-4286)
maximum permissible, for astronauts and crew and passengers of supersonic aircraft, criteria for, 23:43767
maximum permissible, for astronauts during space flight, criteria for, 23:43787
maximum permissible, for body parts of children up to 18 years of age, 25:42473
maximum permissible, for human populations in Sweden, regulations for, 24:41903
maximum permissible, for human populations, establishment of, 25:19018
maximum permissible, for human skin, 23:6440(T) (NSJ-tr-100)
maximum permissible, for industrial personnel using sealed sources and x rays in Great Britain, 25:42469
maximum permissible, for lifetime exposure of man, 22:45565
maximum permissible, for low-dose exposure of man, 23:31981
maximum permissible, for man during occupational exposure, 23:50605
maximum permissible, for man, ICRP methods for determination of, 25:42454
maximum permissible, for mercury isotopes in man, 23:31812
maximum permissible, for non-occupational and occupational exposure of man, basis of ICRP recommendations for, 25:42466
maximum permissible, for nuclear industry personnel handling open radioactive material, 25:35154
maximum permissible, for nuclear powered space vehicle personnel, 25:51204
maximum permissible, for occupational exposure of radiologists, ICRP standards for, 22:38490
maximum permissible, for patients during diagnosis, criteria for, 25:42552
maximum permissible, for personnel and population, recommendations of ICRP for, 23:6483
maximum permissible, for personnel and public as recommended by ICRP and adopted by United Kingdom Atomic Energy Authority, 23:24605 (AHSB(RP)R-78(3rd Ed.))
maximum permissible, for personnel engaged in milling and mining of radioactive material, 24:12096 (STI/PUB-151)
maximum permissible, for personnel in German industries, 22:33834
maximum permissible, for personnel in nuclear industry in France, criteria for establishment of, 23:50558
maximum permissible, for personnel, quantities and units for use in calculations of, 24:48563
maximum permissible, for population groups, additivity of external and internal, 25:41833(R) (IA-1218)
maximum permissible, for populations, evaluation for planning of future nuclear power plants, 24:48572 (CEA-CONF-1561)
maximum permissible, for radioluminous paints used for timepieces, 25:46863
maximum permissible, for roentgenologic personnel, standards for, 22:45510
maximum permissible, for space flight, 23:50916
maximum permissible, for supersonic aviation personnel, factors affecting, 25:26750(T) (ORNL-tr-2455)
maximum permissible, for uranium miners in U.S.A, 23:50607
maximum permissible, from television sets produced in Soviet Union, x, 24:25489
maximum permissible, history of development of, 23:12077 (ZFK-125)
maximum permissible, ICRP standards for external and internal, 24:23230 (SWRHL-82, pp 508-28)
maximum permissible, ILO recommendations for industrial personnel, 25:42460
maximum permissible, in space flight, factors in determining, 24:32030
maximum permissible, laser, microwave, and x radiation, for personnel and general population, standards for, 23:50608
maximum permissible, legislation for, 22:38283
maximum permissible, national standards for, 22:49324(R) (NP-17266)
maximum permissible, of internally deposited isotopes in man, 23:7953
maximum permissible, of iodine-131 for penetrating open wounds, 22:38444
maximum permissible, recommendations for emergency situation, 23:26782
maximum permissible, recommendations of ICRP for, 23:26816
maximum permissible, recommendations of ICRP for, 23:33737
maximum permissible, recommended by ICRP for man, use of dose equivalent per unit fluence in various organs for calculation of external ionizing, 25:21689
maximum permissible, regulations for, 23:45741
maximum permissible, review of internal, 23:45763
maximum permissible, survey of personnel exposures exceeding, 24:25484 (LFEN-98-a)
maximum permissible, to adult radiation personnel from internal strontium-90, revision of β, 23:38587
maximum permissible, to critical organs, 21:32629 (ANS-SD-4, pp 11-17)
maximum permissible, to general population and reactor personnel, guide to, 23:29544 (THAI.-AEC-1(Rev.1))
maximum permissible, to human cortical and trabecular bones from bone-seeking radioisotopes, mathematical model for determining, 24:27504 (ANL-7615, pp 58-76)
maximum permissible, to human population in relation to tritium release from nuclear power plants, 24:48540 (CONF-700810-6)
maximum permissible, to human population, IRC recommendations for, 25:2574
maximum permissible, to man from ingestion of food of marine origin, 24:34215
maximum permissible, to man, ICRP recommendations for, 25:42680
maximum permissible, to man, standards for, 23:7993(T) (AEC-tr-6866)
maximum permissible, to microwave personnel, 23:33900
maximum permissible, to organisms from single uptake of actinium-228, calculation of β and γ, 23:31752(T) (NRC-TT-1355)
maximum permissible, to personnel at Oak Ridge National Laboratory during 1968 in relation to actual incidence of internal exposure, 23:41336(R) (ORNL-4423)
maximum permissible, to personnel from microwaves, review of international, 25:11088
maximum permissible, to personnel in relation to applications in monitoring, basis of ICRP, 23:48078
maximum permissible, to personnel working with radium vita emanator, 23:48031
maximum possible, to man from domestic use of radioisotope-contaminated natural gas, simulated studies of, 24:23147 (SWRHL-82, pp 585-94)
measurement around two straight parallel radiation sources of equal length, computer calculations for, 23:6460
measurement at end of UA-RR-1 reactor irradiation channels, 24:50198
measurement at Kyoto University Research Reactor, 23:12063 (KURRI-TR-32)
measurement for therapy, use of computers for, 23:45837
measurement in criticality accidents, standard for, 25:51229
measurement in fast burst reactors, instrumentation for time-dependent, 24:11252 (CONF-690102-, pp 469-77)
measurement in high-level gamma irradiation facility using lithium fluoride thermoluminescent dosimeters, 23:20255
measurement in laminagraphy of human larynx, x, 23:50532
measurement in lithium fluoride dosimeters, 23:43766
measurement in lungs of mice following inhalation of promethium-147, 23:11991 (SZS-11/68, pp 31-42)
measurement in man during therapy for bladder tumors, digital computer method for, 23:38578
measurement in man, methods for, 23:45803
measurement in monkeys, use of ionization chamber for proton, 23:20237
measurement in personnel at Japan Atomic Energy Research Institute during 1967, β and γ, 23:18022 (JAERI-5017, pp 60-9)
measurement in professionally exposed personnel in Germany during 1968 using film badges, 24:21187 (SZS-12/69)
measurement in professionally exposed personnel in Germany during 1967 using film badges, 24:21186 (SZS-10/69)
measurement in tissues, value of LET for characterization of energy and velocity of charged particles, 24:17044
measurement of absorbed, calorimeter for, 23:17803 (AD-672563)
measurement of absorbed, method for determining from exposure, 22:40712
measurement of absorbed, methods for, 22:14862
measurement of equivalent, integral signal methods for, 25:23857 (JINR-P16-5525)
measurement of quality factor and dose equivalent, 23:50138

- measurement of rate of burst pulse, method for, 24:7632(P)
- measurement of, from heavy cosmic nuclei at SST and lower altitudes, (E), 23:34300
- measurements for fast reactor materials, reaction parameters for isotopic, 25:704 (BNWL-1349-2, pp 5.1-42)
- measurements for Sedan Event, on-site, 24:41563 (PNE-203-F)
- measurements in atomic energy personnel in Japan during 1967, 23:18020 (JAERI-5017, pp 5-24)
- measurements in ISIS reactor core, intercomparison of calorimetric, 23:52416
- measurements in man following recent or remote uptake of radium-226, methods for α and γ, 23:14151(T) (ANL-Trans-686)
- measurements in projection-grid developed for telecobalt therapy, 23:43838
- measurements of fossil fuel plant and boiling and pressurized water power reactor emissions, comparison of, 24:20541
- measurements of mean to population from natural external radiation in Germany during 1965 and 1966, 24:21102 (SZS-14/69)
- measurements on Apollo 4 and 6 missions in trapped radiation belts, comparison with calculations, 24:37368
- methods for determining absorption rate in phantoms using graphite calorimeter and ionization chamber, comparison of, 23:38579
- methods of determining, to tumors, γ, 23:20229
- methods of reducing, in nuclear medicine, conference on, 23:12090
- minimum requirement for food irradiation, 23:35960
- nominal standard, to human tissues and tumors, correlation between RET and, 25:29520
- permissible levels of, to medical personnel in gynecology departments of cancer institutes, 21:8837
- permissible limits for astronauts during flight to moon, 21:16346(T) (JPRS-38272, pp 172)
- permissible limits for, EURATOM standards for, 21:24449
- permissible limits for, from thorium, 21:12837 (CONF-651008-, pp 187-98)
- permissible, for occupational exposure of critical tissues, determination of, 23:12129
- perturbations in vicinity of tissue heterogeneity method for determining electron, 23:50502
- predictions for Rongelap Atoll, Marshall Islands in relation to measurements during 1954 to 1963, γ, 23:12076 (UWFL-91)
- proposal of maximum exposure dose (MED) to express product of dose rate conversion factor, flux, and quality factor for γ rays and neutrons, 23:33706 (ORNL-TM-2574)
- protraction of, effects of, on development of radiation injuries in man, whole-body, 23:50888 (CONF-671135-, pp 193-8)
- protraction of, effects of, on microcirculation in chick embryos, x, 23:45889 (ANL-7535, pp 84-9)
- protraction of, effects of, on survival of roosters, cobalt-60 γ, 23:45888 (ANL-7535, pp 83-4)
- rate effects for model for use in radiotherapy, 23:50765
- rate effects on cell division in silkworm embryos, lethal x, 23:45881
- rate from spherical source in comparison to cylindrical source, calculation of γ, 23:43770
- rate in irradiation space of 42 MeV betatron, measurement of undesirable secondary electron and photon, 23:50482(T) (SLAC-Trans-100)
- rate of, effects of, on lethality to potato plants, cobalt-60 γ, 23:16438
- rate of, effects of, on survival of irradiated mice, statistical analysis of cell population damage as basis for, 24:12263
- rate of, effects on chromosome aberrations in Drosophila, 24:14472
- recommendations of ICRP for maximum, to individuals and populations, 22:28471
- records of personnel, guidelines for use as legal evidence, 23:31810
- reduction during radioisotope scanning, methods for, 23:9981(T) (JPRS-44356, pp 30-40)
- relation to induced activity following bombardment, effects of protein energy level on, 23:7440(R) (BNWL-531-4)
- relations between LET, absorbed dose kerma, and exposure, mathematical, 22:40658 (CEA-R-3424)
- review of hazards of diagnostic, to lungs, 23:26790
- role of target theory in concepts of measurements of, 23:20327
- schedule in therapy, historical development of concepts in, 24:29828
- schedule of 4-treatment/week for therapy of human neoplasms, evaluation of, 24:29841
- standards for estimation of, responsibility of health physicists in establishing, 22:8521 (CONF-670305-, pp 269-76)
- standards for exposure of man, permissible, 21:41404(T) (JPRS-41259)
- standards for man, maximum permissible, 22:51651
- standards for man, maximum permissible, 22:6835(T) (AEC-tr-6467/2, (pp 195-222))
- standards for man, maximum permissible, ICRP, 22:21510
- standards for man, maximum permissible, ICRP, 22:21511
- standards for man, use of data on radioisotope uptake and retention in tissues for development of internal, 25:58024 (CONF-711104-1)
- standards for maximum permissible whole-body, to man in USA, 22:38456
- standards for maximum permissible, of ionizing radiation for man, recommendations of International Commission on Radiological Protection on, 21:24440
- standards for maximum, in environment at nuclear installations, 22:43322
- standards for permissible exposure of personnel employed in industries and laboratories, 22:490 (CONF-660649)
- standards for permissible, to man, handbook on, 22:10779
- standards for personnel developed by EURATOM, 22:19330 (NP-17180)
- standards for power reactor liquid effluent discharge, 24:20587
- standards in Soviet Union, permissible, 21:45645
- standards in U. S., bibliography on, 24:43859 (ORNL-NSIC-76)
- standards proposed by NCRP for calculation of whole-body, for man and mammals, 22:19325 (BNL-50073)
- unit for relation of amount, fractionation, and time in therapy, nominal standard dose, 23:35756
- units and standards for, ICRU, 25:21712

RADIATION DOSIMETERS

(Specific dosimeters are of the form Radiation Dosimeters, Area and Radiation Dosimeters, Thermoluminescent.)

- accuracy of criticality, intercomparison of, 23:50176 (UCRL-50007-69-1, pp 27-34)
- activator-ion optimization for phosphate-glass, radiation yield study for manganese, 25:42163
- bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
- bibliography on, 22:14847 (AED-C-21-05)
- bibliography on, 22:14846 (AED-C-21-04)
- bibliography on solid-state, 22:14852 (STI/PUB-21/23)
- book: Basic Radiation Protection. Principles and Organization, 24:25470
- book: Handbook of Recording Instruments for Ionizing Radiation, 21:17822(T) (AEC-tr-6709)
- book: Manual on Radiation Dosimetry, 24:33954
- book: Solid-State Dosimetry of Ionizing Radiation, 24:19250
- calibration and maintenance of, 23:47863
- calibration for gamma dosimetry, maintenance of electron equilibrium in, 25:57860
- calibration for γ irradiation facility for, 21:26426
- calibration for high-energy electrons, 22:51261
- calibration for low x-ray exposure rates, precision x-ray source for, 25:49023
- calibration for radioprotection, 25:15882 (CEA-R-4009(1))
- calibration for therapy and radiation protection, 24:41698
- calibration for use in dosimetry of electrons and x radiation, proposed National Bureau of Standards program for, 23:50507
- calibration of β, comparison of free air and volume source methods of, 21:1643
- calibration of gamma, design of variable exposure source for, 24:19172
- calibration of high energy electron, use in ionization chamber as standard for, 22:28480
- calibration of ionization chamber, by chemical dosimetry, 23:22100
- calibration of neutron, use of low power reactors for, 22:4489
- calibration of nuclear accident, intercomparison study for, 25:20134 (ORNL-4584, pp 187-97)
- calibration of solid-state, at 10 krad to 10 mrad, design of calorimeter for, 23:50184
- calibration of spherical, for neutron dosimetry at energies up to 50 MeV, 22:6656
- calibration of, 1970 IAEA international glass dosimetry intercomparison for, 25:57838
- calibration of, absorber method for inspection of purity of gamma sources for, 21:45437
- calibration of, circuit design for, 22:16891(P)
- calibration of, conference on problems in, 23:45759
- calibration of, design of facility for, 24:44173
- calibration of, design of panoramic radium exposure chamber for, 24:44324 (BARC-460)
- calibration of, fabrication of americium-241 gamma source for, 25:4248
- calibration of, gamma irradiation facility for, 24:39119 (RD/B/N-1624)
- calibration of, K-fluorescence x-ray source for, 25:44735
- calibration of, method based on similarity of radiation fields for, 22:23334
- calibration of, methods for, 21:1658
- calibration of, procedures for, 23:2569
- calibration of, use of 400-keV positive ion accelerator and 250-kV x-ray set for, 21:6307
- calibration of, use of neutron sources for, 21:14482
- calibration procedures for radiation protection, 25:49020 (RT/PROT-(71)16)
- calibration techniques for personnel, 24:36626 (STI/DOC-10/109)
- calibration using Fricke dosimeters, interlaboratory comparative, 22:51254
- capsules for, fabrication of gadolinium, 21:19899 (NP-16604)
- casings for, design of, 22:382(P)
- characteristics for personnel monitoring, 24:50574
- characteristics for use in fallout shelters, 23:33536 (NP-17843)
- characteristics of zinc sulfide, for ultraviolet dosimetry based on electret discharge, 24:46520
- characteristics of, survey of, 22:43130
- characteristics, economics, and uses of, for personnel monitoring, 25:18973
- charge trapping effects on electron dose—depth profiles in plastic, 25:8566
- charge-carrier lifetime in silicon, neutron energy dependence of excess, 22:49135
- circuit design for neutron, using boron trifluoride detector, 21:22182
- circuits for pocket Geiger—Mueller, integrating, 23:38324 (DUN-5936)
- comparison of personnel monitoring, 25:21716
- comparison of, for heavy charged particles, 25:24281
- conference on development for use following criticality accidents, 25:11056 (STI/PUB-241)
- conference on solid state, 25:44704
- containers for, design of light-opaque, 21:12695(P)
- correction factors for gamma, mass energy transfer, 23:47850
- data analysis for four-detector neutron, computer program for, 24:27434 (RD/B/N-1611)
- data from activation, used in neutron dosimetry following nuclear accident, spectral model for analysis of, 23:47844 (K-1763)
- data obtained with gamma, directional dependence of, 22:2426 (ABS-THH-1037)
- description for external radiations, 25:24164
- description of cadmium sulfide, for gamma and x-ray dosimetry, 21:41286
- description of europium-activated lithium iodide scintillation, in spherical polyethylene moderator for dosimetry of thermal to 10-MeV neutrons, 22:28182
- description of fissile radiator—solid-state track, for neutron dosimetry, 22:21358 (ORNL-TM-2120)
- description of Geiger-Mueller, using radio transmitter—receiver system, 23:38335
- description of integrating, based on thermally-stimulated exo-electron emission, 23:700
- description of LASL personnel multifoil activation, 22:38101 (LA-3889)
- description of magnesium acetate activation, for neutron dosimetry at 14.7 MeV, 24:23028
- description of personnel monitoring system for radiation accidents, 23:47772
- description of personnel, aboard Apollo spacecraft, 22:37993 (N-68-21647)
- description of personnel, for Apollo and Gemini space vehicles, 22:16918
- description of polyethylene, with gas evolution in proportion to dose, 24:39374(P)
- design and calibration of miniaturized dose rate alarm pocket, 24:14311 (DUN-5938)
- design and calibration of phototube—integrator, for dosimetry of ultraviolet radiation, 24:5933 (AECL-3384)
- design and fabrication of gamma and x, 21:3309
- design and fabrication of personnel neutron, using fissionable substances, 21:334
- design and operation of background-compensated area, 21:26153 (SC-TM-67-268)
- design and performance for betatron bremsstrahlung dosimetry, 24:27456
- design and performance for gamma and x-ray dosimetry, standards for, 23:43611
- design and performance for monitoring personnel in industry, 25:42460
- design and performance of boron-loaded emulsion in spherical water moderator for neutrons, 22:12655
- design and performance of fluor-photodiode gamma, 21:12684(R) (AD-641913)
- design and performance of gamma, using integrating silicon detectors, 21:12624(R) (AD-641654)
- design and performance of helium-3-filled proportional, spherically moderated for measuring neutron dose equivalent, 22:28174 (AERE-R-5131)
- design and performance of ionization chamber, for gamma dosimetry, 22:30867 (ORNL-TM-2145)
- design and performance of miniature lithium-drifted silicon, for gamma and x-ray dosimetry, 23:11886
- design and performance of multisphere moderated scintillation, for neutron dosimetry, 22:47384 (UR-49-894)
- design and performance of personnel fissile metal—plastic disk, for fast and thermal neutron dosimetry, 23:38325 (EIR-152)
- design and performance of personnel neutron, using fission foil—glass track registration, 22:19168
- design and performance of personnel neutron, using nuclear emulsions containing boron-10, 22:19168
- design and performance of personnel, for thermal neutrons, fast neutrons, and gamma radiation, 22:43108 (IFA-PN-19)
- design and performance of polyethylene-moderated, boron-10-loaded, silver-activated zinc sulfide, for neutron dosimetry, 23:35518 (JINR-P16-4480)
- design and performance of TISS, 21:385
- design and performance of tissue-equivalent ionization, for dosimetry of photons, 22:14863
- design and performance of tissue-equivalent proportional, for gamma- and neutron-dosimetry at high altitudes, 22:4482 (BNWL-SA-1364)
- design and performance of tissue-equivalent proportional chamber, 22:38119
- design and performance of uv, 21:1644
- design and performance of, using ionization chambers, 21:28283
- design and properties of VA-Z-261 and 262 ionization chambers for beta and gamma dosimetry, 23:20012
- design and use of glass, for ureteral insertion, 21:10906
- design and use of niobium-93 activation, for neutron dosimetry, 22:28177 (FFN-74)
- design and use of scintillation, 23:50183
- design and uses of cadmium sulfide, 22:6661
- design and uses of wrist-watch recording personnel gamma, 21:8624 (AECL-2629)
- design for evaluation of electromagnetic field effects in biological and medical studies, 25:13581
- design for gamma, x, and neutron dosimetry, 23:24474(P)
- design for large dose values, lectures on, 24:10214 (CERN-69-12)
- design for measuring unknown radiation dose at 1.0 to 1000 megarads, 23:33542(P)
- design for monitoring environment of fish, 21:34650(R) (BNWL-322)
- design for neutron dose rate measurements up to 5 MeV, 23:45558
- design for potassium-40 determinations in cattle, whole-body, 21:30817
- design for rapid determination of time available for personnel occupation in high gamma fields, 23:20010 (CONF-680507-, pp 263-9)

design for use in determining focal dose during rotational γ therapy, 21:20198
design for use in neutron activation analysis, 22:8035(P)
design modification of, for increased stability and sensitivity, 21:3324
design of activation detector, for criticality personnel dosimetry, 24:11847 (RFP-1369)
design of adjustable wide range radiation level, for alarm system, 21:24238(P)
design of boron foil—plastic track with partial cadmium filter for thermal and intermediate neutron dosimetry, 23:35528
design of cadmium-containing screen for neutron, 21:336(P)
design of complex badge, for dosimetry of thermal neutrons, gamma radiation, and fast neutrons, 23:17810
design of Compton, using liquid scatterer, for gamma dosimetry, 22:12656
design of contained material based on gas evolution during irradiation, 25:39768(P)
design of dose equivalent, indicating rem quantities, 23:33545(P)
design of dual photoluminescent and silicon diode, for gamma and fast neutron dosimetry, 23:20021(P)
design of electrochemical personnel gamma, with storage for preset alarm and continuous readout, 21:1569 (UCRL-14925-T)
design of electroscope-type, 22:43122(P)
design of electroscope-type, 23:41078(P)
design of high-dose-rate ionization, 25:39769
design of ionization chamber for dosimetry of beta, gamma, and x radiation, 22:49129(P)
design of ionization chamber with air-equivalent walls for dosimetry of 10- to 200-keV x rays, 23:11843
design of liquid hexane-filled ionization chamber, 21:14474
design of moderated spherical helium-3-filled proportional, for neutron dose-equivalent evaluation, 22:43123
design of MOS silicon, based on measurement of integrated current from post-irradiation heating, 25:35036(P)
design of multicomponent personnel, for criticality dosimetry, 22:38106(P)
design of multiple detector, for personnel accident dosimetry, 25:10885
design of neutron, using boron-10- or lithium-6-doped nickel oxide sensing elements, 21:14470(P)
design of niobium crystal, for integrated fast neutron dosimetry from isothermal magnetization curves, 24:14317(P)
design of personnel, 21:45620 (ORNL-4146, pp 36-55)
design of personnel gamma, 21:34519 (ORNL-4091, pp 49-67)
design of personnel pocket-type, utilizing capacitor integrator, 23:29234(P)
design of personnel, for registering mixed radiation fields, 21:16213
design of phosphate glass, 23:12115
design of phosphate glass, 23:12121
design of photostimulated crystal, using induced current transient, 22:23341(P)
design of plastic, based on physical property changes for x ray dosimetry below 15 keV, 25:35033(P)
design of portable fast neutron, engineering drawings for, 21:36399
design of portable tissue-equivalent ionization detector, 24:25274
design of proportional counter, for measuring low environmental dose rates, 23:4847
design of radiation-sensitized quartz, for gamma dosimetry, 22:30869
design of scintillation, for gamma dosimetry, 23:43610
design of scintillation, for gynecological radiotherapy, 22:51264
design of secondary-standard ionization detector, 24:36632
design of silicon diode, for in vivo dosimetry, 22:30872(P)
design of soft tissue-equivalent ionization chamber for dosimetry of low energy photons, 23:16161 (CEA-CONF-1088)
design of solid-state digital integrating, for x radiation, 22:25679
design of thermoluminescent and multifoil activation, for personnel neutron and gamma dosimetry after criticality accident, 23:2662 (DP-1006(Rev.1))
design of two-piece pocket ionization chamber, 23:7879(P)
design of, calculations of electron energy losses in materials for, 23:16160 (CEA-CONF-1087)
design of, for measurement of x radiation doses to human oviducts in vitro, 21:16464
design using ionization chamber, for personnel gamma- and x-ray dosimetry, 22:4488
design with audible alarm for beta and gamma monitoring, engineering drawings for, 22:14818
design, development, and performance of, at Chalk River, Ontario, 23:35723(R) (AECL-3199)
determination of dose equivalent of mixed radiation by LET-dependent, 21:4811
development, 22:8390 (AHSB(RP)M-46)
development, 21:33811 (RHEL/R-144, pp 61-71)
development and calibration of proton-recoil proportional, for dosimetry of 0.1- to 15-MeV neutrons, 23:47865
development and performance of gas, liquid, and solid phase, 21:23908 (BNL-50042)
development and performance of personnel, 21:335
development and properties of, at BNL, 22:37775 (BNL-50082, pp 40-78)
development and use for monitoring, survey of, 23:47857
development at Chalk River during 1971, 25:49319 (AECL-3961)
development at Columbia Univ, 25:55002 (NYO-2740-8, pp 7-146)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development at Idaho Operations Office, AEC, 1968, 23:41315 (IDO-12071, pp 8-13)
development at Karlsruhe Nuclear Center, 1968, 24:23023 (NP-18058)
development at National Inst. of Radiological Science, 24:39220 (NIRS-8, pp 1-17)
development at Scientific Institute for Nuclear Instrumentation in Soviet Union, 22:6554
development at Sloan-Kettering Institute during July 1, 1970 to June 30, 1971, 25:55208(R) (NYO-3510-18)
development based on thermally stimulated exoelectron emission, 23:9939 (ORNL-4316, pp 231-69)
development for determining dose to irradiated substances, 23:26591(P)
development for direct measurement of absorbed dose, 21:36600
development for dosimetry associated with tactical warfare, 22:8396
development for gamma dosimetry, 23:14054
development for gamma dosimetry based on charge generation in dielectrics by Compton and photoelectron scattering, 25:4376 (AD-710007)
development for health physics at CRNL during 1969, 24:39425(R) (AECL-3565)
development for health physics monitoring, 25:37728(R) (AECL-3860)
development for measuring dose equivalent rate, 22:16920
development for neutron and gamma dosimetry, 23:2667
development for neutron monitoring of personnel, survey of, 24:25478 (BNWL-1340)
development for neutrons using Cherenkov effect of induced beta radiation in gamma and activation dosimeters, 21:43285
development for personnel monitoring around accelerators, 23:50177
development for personnel monitoring, review on, 25:57767
development for radiation protection, 24:48282
development for radiological protection during radiotherapy, survey on, 25:8487
development for studying shielding materials, 22:15003(T) (AD-662586)
development for use in large-scale irradiations, 22:47294(R) (TID-24349)
development in U.S.S.R. for protection of personnel, 23:9931(T) (JPRS-44356, pp 65-75)
development in U.S.S.R. for use during therapy, review of, 23:9932(T) (JPRS-44356, pp 76-85)
development of, 21:3317 (ORNL-P-2686)
development of, 21:41292(R) (NP-16972)
development of beta, for fallout hazard evaluation, 25:49170 (AD-715017)
development of dielectric track, 25:10825
development of electrolytic capacitors as dose rate indicators, 24:16902
development of emergency personnel neutron—gamma, review on, 25:10881
development of exoelectron emission, using optical or thermal stimulation, 23:7816 (CONF-680920-, pp 180-99)
development of fissile material-mica sandwiched, for slow and fast neutrons, 21:17894 (NP-16664)
development of gamma, based on volumetric determination of radiolytic gas production in fluorocarbons, 24:44337
development of glass, for low thermal neutron fluxes, 23:39011
development of helium accumulating, for high neutron fluence measurements in-core, 25:4381
development of in-core neutron, based on resistivity change in tungsten, 24:44326 (CEA-N-1288)
development of ionization chamber, 25:18805(P)
development of ionization chamber for gamma and neutron dosimetry, 23:14044 (CEA-CONF-1068)
development of lithium-drifted silicon, for beta dosimetry, 22:30825(R) (UCRL-50007-67-3)
development of neutron personnel, review of, 22:33673
development of new concepts in solid state, 25:42162(R) (NYO-3409-10)
development of new types of solid-state, for fast neutrons, 25:49019 (COO-1105-167)
development of ORGDP activation, for dosimetry of fast, resonance, and thermal neutrons following nuclear accident, 23:47844 (K-1763)
development of personnel neutron, using neptunium-237 oxide foil or uranium-235 foil, 21:10677 (BNWL-332)
development of personnel silicon p-i-n diode, for fast neutrons, 21:6305 (COO-1226-12)
development of polyethylene film, for megarad doses, based on change of viscosity, 25:39765
development of proton-recoil semiconductor, for neutrons, 21:32490
development of pyroelectric tourmaline, for x radiation, 22:19160(R) (NYO-3409-4)
development of pyroelectric zinc sulfide uv, 22:19160(R) (NYO-3409-4)
development of rhodium-103 activation, for fast neutrons, 22:6652 (ORNL-4168, pp 183-230)
development of scintillation and ionization, review of, 22:43126
development of self-charging pocket, for gamma and x rays, 24:27429 (CONF-690540-, pp 524-31)
development of short-lived isomer activation, for gamma dosimetry, 21:36414
development of sintered cadmium sulfide, using photoresistance properties for x-ray dosimetry, 23:4841(T) (SC-T-68-1549)
development of solid-state, 25:39770
development of solid-state, review on, 25:29385
development of stimulated exoelectron emission, 24:7659(P)
development of tissue-equivalent, for electron and gamma dosimetry, 21:22172
development of uv, 22:43323
development of uv, by conductivity measurements of neutron-irradiated diamond during thermal stimulation, 22:19160(R) (NYO-3409-4)
development of vacuum chamber as interface, 22:38118
development of wide-range neutron, 21:46999(R) (AERE-PR/HPM-11)
development of zinc sulfide electret, for ultraviolet dosimetry, 24:19243(R) (NYO-3409-8)
development of, based on Compton scattering current in dielectrics, 24:31749
development of, based on thermally stimulated currents and depolarization in nonluminescent near-insulating solids, 25:26520(R) (NYO-3409-9)
development of, for field use, 21:18012(R) (BNWL-360(Rev.))
development of, progress in, 24:44027 (BNL-50205, pp 50-77)
development of, review of, 23:47862
development of, using strain gage for measuring thermal expansion of material, 23:17809
development possibilities for pure metal, using radioinduced electric resistivity, 24:27441
development possibilities of radioinduced density decrease in quartz for fast neutron dosimetry, 24:27442
development programs for EURATOM, during July 1964 to June 1968, 23:52379 (EUR-4386)
development, calibration, and inventory of ORNL, 21:45371 (ORNL-4146, pp 78-83)
developments in, review on, 25:57846
directional sensitivity of ionization chamber, for personnel dosimetry of x radiation, 21:22170 (NP-16701)
dose rate in cavity ionization, effect of thin air-equivalent layers on pressure dependence of mean, 22:38113
dose rate response of pocket ionization chamber to pulsed x radiation, 21:26243 (UCRL-50007-66-2, pp 21-3)
effectiveness of single chest-worn, for assessing whole-body dose to man, 25:46848
efficiency of direct-reading, as compared to photographic film, discussion on, 21:18053
efficiency of gamma, method for calculating, 21:32487
efficiency of personnel activation, counting technique for broken sulfur pellets for increasing, 23:45560
electric charging device for direct-reading ionization chamber, design of piezoelectric, 23:50187(P)
electric currents in liquid ionization chamber, factors affecting, 24:23024 (NP-18105)
electric currents in, measurement of less than 10^{-11}A, 21:1640(P)
electron energy losses in tissue-equivalent, calculation of, 23:45556(T) (ORNL-tr-2199)
energy calibration for gamma and x rays, 25:57859
energy characteristics of thallium-activated sodium iodide scintillation, method for correction of, 22:8400
energy dependence of, recording system for controlling, 23:50188
energy range of neutron, analysis of, 21:46999(R) (AERE-PR/HPM-11)
energy-independent, for determining absorbed dose in critical organs, 23:18034
evaluation for field measurements of microwaves, and uv, 22:28492
evaluation for monitoring of environment and personnel, 24:25488
evaluation of fast neutron, for personal use, 24:29753
evaluation of finger ring detectors, photographic film detectors, and thermoluminescent detectors for use as, by radiologists during fluoroscopy, 23:50518
evaluation of, for monitoring of environment at rocket reactor test site, 21:12838 (LA-3583)
fabrication and performance of silver-activated phosphate glass personnel, for neutrons and gamma rays, 21:34493 (SFL-A-7)
glasses for, properties of, 25:58421
holder with violation indicator for personnel, design of lockable, 24:14268(P)
intercomparison of personnel nuclear accident, 25:4377 (AERE-R-6498)
intercomparison study of, representing 11 laboratories, 22:6652 (ORNL-4168, pp 183-230)
ionization fluctuations in, due to charged particles, 21:26242 (UCRL-17465)
location of personnel, determination of most suitable site for, 24:7653 (AECL-3379)
maintenance at JAERI, 23:17748 (JAERI-5017, pp 77-82)
materials evaluation for, 25:59147
materials for, development and testing of radiation-resistant insulator, 24:49246(R) (ORNL-TM-2986)
measurements with tactical military, relation with radiobiological effects table, 22:376 (USNRDL-TR-67-67)
methods of using, for determination of gamma and neutron exposures of personnel in graphite critical assembly accidents, 21:3412
moderators for neutron, optimum dimensions of, 21:16181
monitoring external radiation by, methods for, 21:40645
nomograms for elaboration of isodose charts for use of gamma, 21:8895
operation and performance for neutrons and neutrons in gamma fields, review on, 25:26534
operation and use in health physics, statistical analysis of, 22:21317 (SC-TM-67-3036)
operation characteristics of exo-electron emission, 23:24472
optimal conditions for formation of x radiation beam for, 21:8899
performance for 0.5 to 400 MeV neutrons, 25:19007 (NCRP-38)
performance for accelerator pulsed field dosimetry, 24:7655 (UCRL-71731)

  performance for determination of dose to personnel following accidents, 24:7883
  performance for evaluating dose to personnel following criticality accidents, 24:7904
  performance for evaluating pulse discharge effect on aqueous media, 21:1645
  performance for measurement of accidental exposure of man, 22:6816
  performance for measurement of high radiation dose to personnel, 22:21524
  performance for measurement of plutonium-238 and -239 in wounds, 22:6804 (ORNL-4168, pp 289-311)
  performance for mixed γ and neutron fields, review of, 25:6690 (CONF-691106-, pp 3-11)
  performance for monitoring packaged radioisotopes during shipment, 22:45567
  performance in measurement of proton RBE at end of trajectories, 22:8519 (CONF-670305-, pp 155-73)
  performance of AERE criticality, intercomparison of, 23:26583 (AERE-R-6008)
  performance of alkane—carbon tetrachloride liquid, for gamma and x-ray dosimetry, 25:438 (NP-18481)
  performance of cadmium sulfide, for gamma dosimetry, effects of temperature on, 22:14866
  performance of CaF_2:Mn, LiF, and LiF teflon-disc, for dosimetry in Neurospora samples on Biosatellite B, comparison of, 23:16431(R) (ORNL-TM-2235)
  performance of cavity ionization chambers for dosimetry of high-energy electrons and gamma and x radiation, 23:20019
  performance of doped lithium fluoride, using thermally-stimulated exoelectron emission method, 23:20022
  performance of exo-electron emission, use of methane flow detector for evaluating, 23:24445
  performance of FD-3, FD-5, and FD-7 silver-activated glass, 25:39761
  performance of film and solid-state, comparison of, 22:378
  performance of fission-fragment tracks in plastic as neutron, 25:444
  performance of glass, for personnel monitoring in plutonium facilities, 23:18259(R) (PNCT-AR-67)
  performance of Hurst, for gamma measurement, 21:27785(R) (NAA-SR-12316)
  performance of ionization chamber, for pulsed radiation, functional transform scheme for determining, 24:14323
  performance of lithium fluoride crystal-type, in gamma fields, 24:1111
  performance of lithium fluoride, for comparison of absorbed dose in cobalt-60 teletherapy, 23:29526
  performance of lithium fluoride, in combination with gammameter and isodose curves for dose measurements in bladder and rectum during therapy for gynecological tumors, 25:44878
  performance of miniature silicon diode, 24:29580 (UCRL-18793, pp 89-91)
  performance of moderator neutron, for neutron dose-rate determinations, 23:2827
  performance of neutron systems, evaluation of, 21:1744 (ORNL-P-2377)
  performance of neutron, in mixed neutron—gamma radiation fields, 25:23867
  performance of nuclear accident, international intercomparison of, 24:39370 (ORNL-4446, pp 271-7)
  performance of personnel, 24:11849
  performance of personnel colorimetric, 21:6313
  performance of personnel hand and foot, for monitoring human skin, 23:6440(T) (NSJ-tr-100)
  performance of personnel, calibration and testing for evaluation of, 22:490 (CONF-660649)
  performance of personnel, during nondestructive materials testing, 21:34494
  performance of personnel, evaluation of detectors for measuring, 21:6306 (UCRL-70171)
  performance of PMMA as, for high absorbed doses of gamma rays and electrons based on optical density changes, 25:6581 (JAERI-Memo-4121)
  performance of polymer thermoelectrets as, 25:51910
  performance of polytetrafluoroethylene, for gamma dosimetry at 10^{11} rad based on melting point and viscosity, 25:42170
  performance of scintillation, for measuring dose rate of gamma and x radiation, 21:12691(T) (ORNL-tr-1476)
  performance of silicon diode, for fast neutron dosimetry, 23:9755 (AE-339)
  performance of silicon diode, proton dosimetry, 22:12859
  performance of thermal-stimulated exo-electron emission, for dosimetry of ionizing radiation, 23:31569
  performance of tourmaline pyroelectric, for x radiation, 24:21031
  performance of uranium—mica fission foil, for personnel neutron dosimetry, 23:47748
  performance of viscometric, using polymethylmethacrylate, 21:28279 (CERN-67-14)
  performance of zinc sulfide pyroelectric, for ultraviolet radiation, 24:21031
  performance of, for neutron monitoring at accelerators and reactors, 21:6540
  performance using zinc sulfide phosphors for alpha detection, 21:28252
  precision in relation to biological variability, 24:29743 (DMRE-69-3, pp 5-59)
  principles for neutron dose equivalent rate, 24:50902
  properties and selection criteria for use in industrial irradiation, 24:14320
  properties of doped calcium sulfate crystal electronexoemission, using thermal stimulation, 23:7818 (CONF-680920-, pp 220-33)
  properties of ferromagnetic materials for use as, study of radiosensitive magnetic, 24:27439
  properties of thermally excited exoelectron emission, 23:7817 (CONF-680920-, pp 200-19)
  pulse height-to-dose conversion system for beta—gamma spectrometer, 22:47382 (N-68-24341)
  radiation effects on electric parameters of silicon diode, fast neutron, 21:20016 (AD-648642)
  readout equipment for personnel ionization chamber, design of transistorized, 21:22195 (NP-16705)
  readout system for rod, vacuum microscope, 22:10667(P)
  readout system for tissue-equivalent ionization chamber, 22:49132
  requirements for reactor personnel, review of, 23:37560 (NP-17851, pp 127-62)
  research and development at IAEA, 1968, 23:43248 (STI/DOC-10/98)
  research at UCLRL, Sept.-Dec. 1970, 25:34873(R) (UCRL-50007-70-3)
  research on, at Idaho Nuclear Corporation, 24:2681 (IN-1310, pp 42-61)
  research on, review of AEC, 22:21017
  response of electroscope, photon energy and angular effects on, 24:11846 (AECL-2714)
  response of FD-3 glass, used in fluorimeter, 22:51262
  response of hexane-filled ionization chamber, for neutrons and gamma rays, 21:32492
  response of selected neutron monitoring, 21:26191
  response of various, for neutron dosimetry behind shielding, 25:57858
  response of, general cavity ionization theory for, 24:48332
  response of, interface effects on, 22:38117
  review on, 21:16366
  sensitivity of aluminum oxide and tungsten, for neutrons, 22:38105
  sensitivity of liquid hexane-filled ionization chamber, 21:14474
  sensitivity of personnel ionization chamber, for dosimetry of neutrons, 21:22170 (NP-16701)
  sensitivity of SRP-2, for gamma and x radiation, 23:17811
  sensitivity to neutrons at 1 to 100 keV, 25:37650
  shape and volume of micro-, biological significance of, 22:38120
  simulators for, development of electrolytic cells as, 24:16903(P)
  spectral shift in solid-wall proportional, 23:50173 (BNWL-1051(Pt.2), pp 184-6)
  standardization and multi-laboratory intercomparisons of nuclear accident, 25:10886
  standardization for gamma source calibration for therapy, international comparison for, 25:42172
  standardization of, methods of, 22:43063
  storage of quartz-fiber, problems in, 21:17819(R) (ORNL-TM-1768)
  testing of calibration of personnel, design of facility, 22:51567(R) (IN-1205)
  theory of operation of, review on, 23:47855
  time correction calculator for cell survival, 23:9757
  training program on, 21:28426 (ANL-7291)
  use for continuous monitoring of patients and personnel during fluoroscopic radiography of human gastrointestinal tract, x, 24:27588 (CONF-690540-, pp 611-13)
  use for control of occupational exposure, 23:4803 (BNWL-SA-2108)
  use for hazard evaluation of lasers, 21:26274 (NP-16372)
  use for inspection of medical fluorimeters, 21:14480
  use for monitoring at accelerators, tabular summary of, 24:46516 (DESY-70/27)
  use in health physics, review of, 22:10778
  use in manned space flight, 21:36412
  use in measurement of doses received from diagnostic x radiation, review of, 21:6498
  use in radiotherapy, 24:5938
  use in radiotherapy, calculation of biodose factors for, 21:8886
  use in USSR research reactors, description of, 22:12129
  use of cellulose nitrate plastic, for cosmic particles aboard Gemini VI spacecraft, 21:1641 (USNRDL-TR-1037)
  use of electron-emission, for dosimetry during radiation accidents, 23:708
  use of energy independent personnel, desirability of, 21:14479
  use of film, in radiation protection, 21:6525
  use of glass, for measurement of low personnel radiation doses, 22:6657
  use of ionization chamber, in air dosimetry, Fourier analysis of blurring effects in, 22:10613
  use of ionization chamber, in depth dosimetry, Fourier analysis of blurring effects in, 22:10614
  use of miniature silicon diodes as, 21:6207
  use of nuclear emulsion, for fast neutron personnel dosimetry, 22:38100 (KFKI-12/1968)
  use of parallel-plate ionization chamber for absolute measurement of cobalt-60 gamma dose, 23:705
  use of scintillation extrapolation, to measure absorbed dose from particles of reactor fuel material, 21:8452(R) (ORNL-TM-1686)
  use of solid-state track, for neutron dosimetry, 22:21361
  use of thorium- or uranium-doped phosphate glasses for neutron, by registration of fission-fragment tracks, 22:23336
  use of tooth fillings for, following criticality accidents, 21:3410
  use of, in civil defense, comparison of, with use of Geiger-Mueller counters, 21:8838
  use of, to control doses to personnel in non-standard radiology departments, 21:8836
  uses in environmental monitoring around atomic energy installations, 25:15789
  uses of, during nuclear warfare, 21:12852
Radiation Dosimeters, Area
    see particular types of dosimeters
RADIATION DOSIMETERS, BIOLOGICAL
  anatomical and physiological responses of accident victims as, 22:8517 (CONF-670305-, pp 94-113)
  chromosome aberrations as, 24:34337
  chromosome aberrations as, 25:26771
  chromosome aberrations as, in criticality accidents, 21:20226
  chromosome aberrations as, in man using dose-effect relation in two-hit events, 24:34318 (RT/PROT-(69)20)
  chromosome aberrations for use as, 21:32606
  chromosome aberrations for, bibliography of, 22:31109
  chromosome aberrations in human leukocytes as, 22:21527
  chromosome aberrations in human lymphocytes as, evaluation of, 24:25449
  chromosome aberrations in radiography personnel for, following accidental iridium-192 exposure, 24:25439 (CONF-700205-1)
  chromosome analyses in leukocytes as, 21:39378 (ORNL-P-3201)
  chromosome analysis as, 22:10839
  cultured cells survival as, for charged particle beams, 24:34320 (UCRL-19420, pp 93-5)
  development of biochemical indicators as, 25:42685
  effectiveness for determination of radiation dose to personnel following accidents, 24:7883
  effectiveness for measuring neutron dose to man in accidental exposure, 25:58019
  effectiveness for monitoring personnel monitoring following accidental exposure, 24:7858
  effectiveness of blood plasma-quenching effect as whole-body, 25:58017
  effectiveness of chromosome aberration frequency in human peripheral lymphocytes as, for low-dose occupational exposures, 25:58015
  effectiveness of chromosome aberration frequency in peripheral human lymphocytes as, factors affecting, 25:58014
  effectiveness of chromosome aberration frequency in accidentally exposed man as, 25:55228
  effectiveness of chromosome aberration frequency in human peripheral lymphocytes as, 25:58016
  effectiveness of chromosome aberration frequency in human peripheral lymphocytes as, 25:58013
  effectiveness of chromosome aberrations as, 24:48503
  effectiveness of human blood cells as, 22:23398 (IA-1128, pp 147-55)
  effectiveness of human chromosome aberrations as, 25:49168
  effectiveness of radioinduced chromosome aberrations in human peripheral lymphocytes as, 25:46845
  evaluation of amino acid content of blood plasma and urine as, 24:17132 (AD-695770)
  evaluation of biochemical changes as, 25:44809
  evaluation of biochemical changes in mammals and man for use as, review on, 25:42401
  evaluation of biochemical indicators as, 25:42408
  evaluation of bone marrow chromosome, 25:18980 (CEA-CONF-1698)
  evaluation of changes in mitotic index of bone marrow cells for use as, 25:32563
  evaluation of chromosome aberration frequencies as, 25:44808
  evaluation of chromosome aberration frequency in human peripheral leukocytes as, 25:52022(R) (NYO-4052-4)
  evaluation of chromosome aberrations in cultured hematopoietic cells as β, 25:42713
  evaluation of chromosome aberrations in human lymphocytes as, 25:42399
  evaluation of chromosome aberrations in human lymphocytes as, 25:42398
  evaluation of chromosome aberrations induced in exposed lymphocytes, 25:21720
  evaluation of cultured Ehrlich ascites cells for, in relation to neutron depth dosimetry in phantoms, 24:6036
  evaluation of deoxypyrimidinuria and lymphocytopenia, for calculating absorbed doses of fast neutron, γ rays, and x rays in rats, 24:6035
  evaluation of enzyme activity as, 25:42409
  evaluation of free radical formation in papaya seed as γ, 25:42438
  evaluation of γ-radiation effects on labeled metabolic products in rats as, 25:42407
  evaluation of hematological parameters as, 25:44806
  evaluation of hematological parameters as, for low-dose, long-term exposures, 25:44807
  evaluation of leukocyte count in peripheral blood as, 25:52234
  evaluation of potential, in man following partial or whole-body exposure, 25:49250(R) (AD-714490)
  evaluation of radiation effects on biochemical activity of body fluids as, 25:42402
  evaluation of radiation effects on blood and urine biochemical constituents, cell populations, and chromosomes in man as, 25:42406
  evaluation of radiation effects on cells and DNA synthesis as, 25:42404
  evaluation of radiation effects on DNA metabolism in animals as, 25:42403
  evaluation of radiation effects on excretion of deoxyribosyl compounds in mouse and rat urine as, 25:42622
  evaluation of radiation effects on human blood coagulation as, 25:42600
  evaluation of radiation effects on metabolism of biogenic amines in animals as, 25:42626
  evaluation of radiation effects on metabolism of biogenic amines in animals as, 25:42627
  evaluation of radioinduced chromosome aberrations in cultured leukocytes as, for mixed gamma-neutrons, 25:32591 (CEA-CONF-1723)
  evaluation of radioinduced chromosome aberrations in man as, 25:42405
  evaluation of radioinduced loss of Drosophila chromosome X as, 25:57999 (NP-18944)
  evaluation of radioinduced metabolic changes in man as, criteria for, 25:42400
  evaluation of survival of enteric bacteria in man as x, 25:52269
  evaluation of urinary biochemistry for, 25:16140 (RT/PROT-(70)9)

- evaluation of x-radiation effects on metabolism of biogenic amines in animals and man as, 25:42626
- feasibility of bacteria in nuclear emulsions as, 25:46825(T) (ORNL-tr-2466)
- fluorescence intensities in urine as, for mixed neutrons and γ, effectiveness of, 24:9770
- method using iodine-131 content of thyroid of mule deer, 21:45611 (CONF-670724-1)
- method using radioisotope content of hock joints of wildlife, 21:45611 (CONF-670724-1)
- method using urinary excretion of deoxycytidine by rats, 21:28347 (USNRDL-TR-67-30)
- method, using isotopic dilution techniques and survival of microorganisms, 21:18051
- mutation induction in diploid yeast as, for γ rays and mesons, 24:34321 (UCRL-19420, pp 96-8)
- performance for monitoring absorbed dose in personnel following radiation accidents, 24:7857
- performance for monitoring external dose to personnel following radiation accidents, 24:7857
- performance of Saccharomyces cerivisiae as uv, 25:18981 (CEA-N-1380)
- phage replication as, during space flight, 22:47582
- radioinduced nuclear pyknosis in peripheral lymphocytes for use as, 22:38422 (EUR-3939)
- review of, 21:32646 (JAERI-4040)
- surface tension of blood serum as, in rabbits, 24:50924
- techniques for, use of urinary phosphate response to establish, 21:6537
- tritium determination in urine as, 22:21525
- use for monitoring personnel following inhalation of antimony-124, 24:7859
- use in fast neutron therapy, 25:52078
- use of changes in blood cells as, for low-dose exposure of personnel, 25:16189
- use of chromosome aberration frequency as, for acute and chronic exposures γ, 25:21701
- use of chromosome aberrations as, 24:46609(T) (LIB/Trans-277)
- use of chromosome aberrations in cells of peripheral blood and bone marrow of man for, 24:39503(T) (LIB/Trans-279)
- use of chromosome aberrations in peripheral lymphocytes of personnel as, 24:7856
- use of induced radioisotopes in feces and urine from astronauts as, 24:39501(R) (BNWL-1183-4)

RADIATION DOSIMETERS, CALORIMETRIC

- see also Calorimeters
- calibration of adiabatic, for reactor radiation dosimetry, 23:50189
- calibration of radial, for reactor measurements, 24:7656(T) (UCRL-Trans-10417)
- calibration theory for reactor in-core, 23:47343 (ZJE-49)
- cryostat design for γ and neutron dose measurements, 21:6310
- description for alpha and beta particles, 22:36109 (BNWL-590)
- description of in-pile twin-rod conduction, gamma and neutron, 22:6169
- description of ionization, supplemented with proportional detectors, 25:42140
- description of precision, for dosimetry of charged-particle beams, 21:17896
- design and calibration of adiabatic epoxy resin absorber, 24:44334 (SJC-A-70-4)
- design and calibration of portable, for dosimetry of 900-MeV alpha particles, gamma rays, and x rays, 21:32493
- design and calibration of thermistor semi-adiabatic, for standardization of cobalt-60 gamma beams, 24:4497(T) (UCRL-Trans-10399)
- design and operation for dosimetry in tissue-equivalent media, 24:41699
- design and operation of adiabatic, for in-core dose rate measurements, 24:4500
- design and operation of heat loss-compensated, 24:2500
- design and performance for gamma dosimetry, 22:51252 (CEA-R-3502)
- design and performance for x ray dosimetry at 10 to 100 keV, 25:35031
- design and performance of adiabatic, for reactor radiations, 24:16899
- design and performance of differential, for electrons up to 8 MeV, 24:44336
- design and performance of electric conductivity, for high-intensity pulsed radiation, 24:14318
- design and performance of gold-absorber, 24:27428 (CONF-690540-, pp 517-23)
- design and performance of quasi-adiabatic aluminum, 25:46644
- design and performance of quasi-adiabatic, for gamma and fast neutron in-pile dosimetry, 23:26587
- design and performance of steady-state differential, for reactor radiation, 25:21457
- design and performance of total absorption, for bremsstrahlung beams, 24:48330
- design and performance of total-absorption, for electron beams of several hundred MeV, 22:6659
- design and performance of twin, for low dose rates, 24:14328
- design and testing of, for measurement of absorbed ionizing radiation dose, 24:5935
- design for absorbed dose measurements with interchangeable absorbers, 23:17803 (AD-672563)
- design for calibration of solid-state dosimeters at 10 krad to 10 Mrad, 23:50184
- design for gamma dosimetry, 22:43127
- design for gamma radiation, 21:39275
- design for measurement of endothermic processes in muscle-equivalent plastic, 23:13974 (BNWL-715(Pt.2), pp 181-225)
- design for measurement of proton induced endothermic reactions in plastic phantoms, 23:11752 (BNWL-481-2, pp 155-200)
- design for measuring absorbed doses of ionizing radiation, 23:707(P)
- design for standardization of cobalt-60 gamma sources, 22:19164
- design of electric conductivity, for pulsed radiation, 24:14319(P)
- design of graphite, for measurement of absorbed energy of bremsstrahlung and fast electron beams, 24:27450
- design of heat-loss compensated, 23:35527
- design of highly-sensitive micro-, for low-energy x rays, 25:49022
- design of integral thermal flux, 24:5939(P)
- design of multi-unit isothermal, for determination of plutonium, 24:7415 (RFP-1401)
- design of portable, for dosimetry of 6-MeV electron, 23:50185
- design of portable, for high-level high-energy gamma radiation, 22:30825(R) (UCRL-50007-67-3)
- design of thin aluminum and beryllium adiabatic, for analysis of gaseous samples, 25:51915
- design of twin-absorber, for gamma absorbed dose measurements, 23:11752 (BNWL-481-2, pp 155-200)
- design parameters for various types of Czechoslovakia, 23:24475
- design parameters of capsule, for pool type research reactor experimental facilities, 25:39304(T) (LB/G-3017)
- development at IAEA, 24:25315
- development for dosimetry of fast pulsed electrons, 25:370(R) (NYO-3510-15)
- development for radiation heating measurements in first Czechoslovak power reactor, 22:27442
- development for reactor heating measurements, 24:46517 (ZJE-84)
- development of, 22:18590(T) (UCRL-Trans-10217)
- development of in-core, for neutrons and gamma radiation, 23:24471 (ZJE-28)
- development of linear array and total stopping, for high-intensity pulsed electron beams, 25:4379 (SC-TM-69-298)
- development of pyrolytic graphite, for x-ray dosimetry in biological materials, 25:23859
- development of tissue-equivalent absorbed dose, for fast neutrons, 25:370(R) (NYO-3510-15)
- development of, review on, 24:48326
- errors in tissue-equivalent plastic, proton-induced thermal defect, 23:35735
- fabrication of plastic—dye, 24:39371(P)
- gamma heating rate measurements in critical assemblies using, comparison of calculated and measured, 22:33082
- operation and performance for standardization of gamma and x-ray doses at 0.6 to 50 MeV, 24:31737 (ICRU-14)
- operation of micro-, for measuring absorbed dose of electrons, 22:51255
- performance comparisons for aluminum, beryllium, and hydrocarbon, 24:25318
- performance for absorbed dose measurements in Melusine reactor graphite, comparison of, (E), 25:18191
- performance for measurements of absorbed dose in man, 22:38332
- performance in radiation dosimetry, book on, 21:17901
- performance of aluminum, copper, and titanium, for pulsed electron beams, 21:6309
- performance of aluminum, for high-intensity pulsed electrons, 23:47849
- performance of beryllium, for pulsed bremsstrahlung dosimetry, 24:7655 (UCRL-71731)
- performance of cobalt- and silver-activated glass, 23:703
- performance of graphite, for dosimetry in gamma irradiation facility, 25:21444 (RD/B/N-1830)
- performance of micro-, for in-pile gamma flux measurements, 21:19983 (CONF-651154-3)
- performance of micro-, review of, 21:30406
- performance of plastic, for electron, gamma, and x-ray dosimetry, 23:31559 (AD-684772)
- performance of relaxometer, based on differences in linear attenuation coefficients in mixed radiation, 25:439
- performance of small isothermal, for measuring dose to carbondioxide—graphite rigs in materials testing reactor, 23:9756 (TRG-Report-619)
- preparation of pararosaniline cyanide, for gamma- and x-ray dosimetry in megaroentgen range, 23:31565 (UCRL-50007-68-3, pp 25-34)
- response for absorbed dose measurements, 23:50180
- response of malachite green carbinol in p-chlorostyrene, to gamma radiation and neutrons, 23:35530
- thermal defects in tissue-equivalent plastic, experimental evaluation of, 22:28176 (BNWL-SA-1760)
- use for calibration of secondary dosimeters, 22:38332
- use for gamma and neutron dosimetry in critical assemblies and reactors, 23:2676
- use for measurement of grenz rays, 23:9762
- use for measuring absolute absorbed dose, 22:14862
- use for neutron and γ flux measurements in research reactors, description of, 23:4322
- use in measuring thermal neutron fluxes in reactors, 21:22180
- use of water, for calibrating Fricke dosimeter for 30-MeV electrons, 22:51257

RADIATION DOSIMETERS, CHEMICAL

- see also Potassium Nitrosodisulfonates
- see also Radiation Detectors, Chemical
- calibration and performance of aqueous solutions of glucose, for gamma dosimetry, 24:23031
- calibration for thermal neutron correction in nitrous oxide, for gamma dosimetry, 23:50190
- calibration of ferrous sulfate, by ionometric and calorimetric methods, 21:3322
- calibration of ferrous sulfate, use of calorimetric and ionometric methods for, 22:10774
- calibration of Fricke, for 30-MeV electrons with calorimetric technique, 22:51257
- carbon dioxide/carbon monoxide ratio as, in radiolysis of alkane—oxygen systems, 23:11557
- characteristics of flow-type tubular and stirred tank Fricke, 23:35517 (BNL-13766)
- characteristics of Fricke, 22:23338
- characteristics of radiochronic dye, for high gamma doses, 25:23877
- characteristics of tissue-equivalent alanine, using EPR readout, 25:57852
- charged-particle range and depth dose distribution in glass, low-energy, 21:5903 (AD-642794)
- cleaning of silver metaphosphate glass, technique for, 21:14475
- containers for Fricke, for 35-MeV electrons, testing of, 24:27430 (CONF-690540-, pp 532-7)
- description for use in radiosterilization or radiopasteurization at high dose levels, 25:18803(P)
- description of inorganic nitrate, 24:39373(P)
- description of nitrogen-14- and nitrogen-15-labeled nitrogen oxide, for gamma ray and thermal neutron dosimetry, 21:39271
- description of polyvinylfluoride, for gamma dosimetry, 22:4487
- design and performance of manganese arsenic borate glass, for gamma radiation, 22:2431
- design and performance of miniature ferrous sulfate, 24:29583
- design for high intensity sources, 22:8540
- design of solid-electrolyte, for gamma rays and relativistic charged particles based on voltage change, 25:55054(P)
- design of vinyl film, 25:2496(P)
- development based on formation of malonaldehyde from aqueous glucose solution for gamma dosimetry, 23:7881
- development for accident dosimetry, 25:10883
- development for gamma dosimetry based on neutron activation analysis of irradiated olefin polymers, 24:501(P)
- development for in-pile fast neutrons, 21:38753
- development for partial reconstruction of nuclear accident conditions, 24:7661
- development for use in mixed γ and neutron fields, 22:38331
- development of 3,3-bis(chloromethyl)oxetane polymer for x radiation, 22:47154
- development of alanine using free radical yields, 24:33943 (CEA-R-3913)
- development of aqueous solutions of chloral hydrate, using pH variation with dose, 23:14056
- development of aqueous, based on optical absorption of hydrated electrons, 25:21448
- development of bromobenzene—Crystal Violet, for γ, 25:18451
- development of carbon tetrachloride—dithizone, for electromagnetic radiations, 24:25305 (CNEA-242)
- development of chloride-containing resin for, 23:4845(P)
- development of electron and gamma, using potassium iodide in presence of potassium acid phosphate, 22:2435
- development of Fricke, for dosimetry of β particles during extracorporeal irradiation of human blood, 22:28533
- development of mannitol, for gamma dosimetry, 25:26523
- development of modified ferrous sulfate, for energy-independent gamma and x-ray dosimetry from 25 keV to 50 MeV, 24:2503
- development of nitrous oxide as, for pulsed electron beams, 23:47475
- development of oxalic acid, 23:7875
- development of oxalic acid solutions for multimegarad gamma radiation dosimetry, 22:51263
- development of Penton, for x radiation, 21:39293 (UCRL-50293)
- development of poly-3,3-(bischloromethyl)oxetane for 4- to 15-keV x rays, 22:379
- development of polytetrafluoroethylene, using free radical yields, 22:40469 (AD-668109)
- development of polytetrafluoroethylene, with ESR readout of peroxy radicals, 25:449
- development of solid dye, using spectrophotometric readout, 25:13306
- development of triphenylmethane dye cyanides, 23:2668
- development of, based on measurement of change in rotation of optically active materials, 21:5963
- development of, polytetrafluoroethylene free radical yield as basis for, 22:47187
- development of, review of, 21:6311
- development using 4,4'(5-chloro-2-thenylidene)bis[n,n-dimethyl-aniline], 22:25682
- development using ammonium molybdate solutions for gamma rays, 21:10682
- effects of organic disulfides on radioinduced oxidation of Fricke ferrous, 25:31974
- efficiency of cyclohexane as, for organic systems, 23:24219(T) (NP-tr-1761)
- efficiency of cyclohexane for alpha particles, 22:10282
- efficiency of ferrous sulfate, for 50-kVp x rays, 23:9477
- efficiency of, problems in determining, 23:14047
- electric pulse discharges in Fricke, 21:24236
- energy response of ferrous sulfate, cavity theory applications in, 21:3326
- equations for glucose and oxalic acid, 25:18808
- errors in ferrous sulfate, 25:8564
- evaluation of ferrous sulfate, 21:5962
- evaluation of Fricke, for measuring cobalt-60 γ radiation, comparison of, with other dosimeters, 24:4628
- evaluation of gaseous hydrogen sulfide, 24:41366
- evaluation of ozone formation from electron pulse radiolysis of oxygen as, 23:11585
- evaluation of Perspex HX, for gamma dosimetry, 21:36410
- extinction coefficient of trivalent iron ions in Fricke, factors affecting measurement of, 22:45340
- fabrication of dibenzanthracene—poly(chloroethylene) film, 23:38331(P)
- fading of optical density in PMMA, effects of oxygen on, 25:4384

  ferric ion concentration in Fricke, measurement of, 25:51918
  G-value of ferrous sulfate, calorimetric determination with electrons and gamma radiation, 22:19171
  G-values for ferric ions from 14.6-MeV neutron and gamma ray, 22:2429
  G-values of ferrous sulfate, for low-energy x radiation, 24:12070
  G-values of ferrous sulfate, for low-energy x radiation, 22:40474
  G-values of ferrous sulfate-cupric sulfate, for γ and neutron dosimetry in mixed fields, 24:16893
  G-values of Fricke, for γ and neutron dosimetry in mixed fields, 24:16893
  gamma dosimetry using Fricke, standard method for, 25:32287
  irradiation vessels for ferrous sulfate, use of plastic, 24:16898
  operation and performance for standardization of gamma and x-ray doses at 0.6 to 50 MeV, 24:31737 (ICRU-14)
  operation and performance of ceric sulfate and chlorinated hydrocarbon, 23:50186
  operation and performance of Fricke ferrous sulfate, for electron, gamma, and x dosimetry, 23:50186
  operation and performance of oxalic acid, for cobalt-60, 22:12648 (RISO-111)
  performance evaluation of glycol-bentonite, for gamma radiation, 22:36115
  performance for dose measurements in radiotherapy, effects of calibration methods on, 23:31782
  performance for dosimetry at small phantom depths, ferrous sulfate, 21:45726
  performance for dosimetry of bremsstrahlung in Vicia root tips, 22:49642
  performance for dosimetry of high-intensity gamma radiation using aqueous solutions of sodium nitrate, uranyl sulfate, and sulfuric acid, 23:35520
  performance for electron- and γ-dosimetry, 23:12254 (RISO-185)
  performance for high-energy electron and γ dosimetry, evaluation of, 24:23211
  performance for high-energy electron beam dosimetry, evaluation of, 24:23212
  performance for low and high radiation dose measurements, 22:23338
  performance for measurement of absorbed dose in extracorporeal blood and lymph irradiator, strontium-90, 24:4616 (BNL-14154)
  performance for measurement of x radiation dose to soft tissue adjacent to plane bone interfaces, polyethylene-film, 22:510
  performance for measurements of activity of cyclotron-produced He ions and protons, 25:16042
  performance for use for 5 to 150 kV x rays, 25:8672 (ICRU-17)
  performance in radiation dosimetry, book on, 21:17901
  performance of 4,4'-(5-chloro-2-thenylidene)bis-N,N-dimethylaniline, for oral dosimetry, 23:33540
  performance of air—water, for high-level gamma dosimetry, 23:2666
  performance of aqueous solution of chloral hydrate, using pH indicators for x and gamma dosimetry, 23:43606 (UR-49-1133)
  performance of aqueous solutions of potassium nitrate and sodium nitrate as emergency, 21:3130
  performance of benzene—water, using gas chromatographic determination of phenol formed, 21:5961
  performance of bromobiphenyl—benzene, 22:18805 (COO-913-23)
  performance of cellophane, for measurement of electron beams generated by Van de Graaff accelerators, 21:10686
  performance of ceric—cerous, for megarad dosimetry, effects of impurities on, 25:26526
  performance of colorimetric, using phthalein dyes, 21:6313
  performance of ethanol—chlorobenzene, for pulsed electrons at 10 MeV, 24:14322
  performance of ethylene, 22:2119
  performance of ferrous sulfate, for high-energy bremsstrahlung dosimetry, 25:21451
  performance of ferrous sulfate, for high-energy photons, 25:21453
  performance of ferrous sulfate, for measurement of absorbed doses of electrons in bacteria and yeasts, 22:38278
  performance of ferrous sulfate, for measurement of absorbed dose of electrons or γ radiation, 22:38271
  performance of ferrous sulfate, for measurements of absorbed dose of γ rays, neutrons, and x rays, 24:2667
  performance of ferrous—cupric, for gamma and electron dosimetry, 23:47852
  performance of ferrous-ferric, ferrous-ferric with copper, and oxalic acid, 24:48325 (INR-1164)
  performance of fluorocarbon, for gamma radiation and fast neutrons, 21:32491
  performance of fluorocarbons, based on radiolytic gas production, 25:55053
  performance of Fricke ferrous sulfate, as reference standard for high energy electrons, 21:45649
  performance of Fricke, consistency of, 24:23029
  performance of Fricke, for cobalt-60 gamma source, 24:27433 (ISS-69/31)
  performance of Fricke, for dosimetry of electrons at 1 MeV, 24:25310
  performance of Fricke, for gamma dosimetry and neutron flux measurements, effects of formic acid on, 25:441
  performance of Fricke, for gamma rays, neutrons, and x rays, 25:57862
  performance of Fricke, for measuring absorbed x-ray dose to brain during therapy of tinea capitis in children, 25:58012
  performance of Fricke, for soft x rays by polarographic and photometric analysis, 24:36628
  performance of Fricke, for x-ray dosimetry in comparison to lithium fluoride thermoluminescent and air ionization dosimeters, 23:7831 (CONF-680920-, pp 400-9)
  performance of gaseous, for mixed reactor radiation, 25:46645
  performance of glucose, for gamma dosimetry at high doses, 23:11885
  performance of heteropolyacids of molybdenum and tungsten as, for electrons and x radiation, 22:28180
  performance of leuco form of triphenyl methane dyes in polystyrene, for α and β particles, 23:33537(T) (NP-tr-1767)
  performance of malachite green carbinol-, ethoxide-, or methoxide-doped poly(bromostyrene) and poly(chlorostyrene) films, 24:13897
  performance of mercuric chloride as low-level γ-ray, 22:28185
  performance of methacrylonitrile, 21:6314
  performance of micro-, in primate phantoms, 22:8525 (CONF-670305-, pp 318-28)
  performance of miniaturized Fricke, 21:23710 (BNL-994, pp 45-69)
  performance of modified ferrous sulfate, for x ray dosimetry, 23:20014
  performance of NBS Fricke, for high-energy electron beams, 23:22102
  performance of oxalic acid solutions and solid oxalates as, in multi-megarad region, 21:23961
  performance of oxalic acid solutions as in-pile, 23:7874
  performance of oxalic acid system as, for high-dose rates of electrons, 21:24237
  performance of oxalic acid, effects of dose rate at large absorbed doses on, 22:12649 (RISO-112)
  performance of oxalic acid, for gamma and electron dosimetry, review on, 23:47851
  performance of oxalic acid, for gamma radiation, 24:44338
  performance of oxalic acid, for γ dose rates in NASA Research Reactor, 24:18705 (CONF-690910-, pp 251-66)
  performance of perfluoroalkane, in gamma dosimetry, 21:4543 (SGAE-CH-37/1966)
  performance of Perspex X, for megarad electron and gamma dosimetry based on optical density, 24:2502
  performance of polyacrylamide, for gamma- and x-ray dosimetry following nuclear accidents, 22:8395
  performance of potassium peroxylamine disulfonate—water, for accelerated electrons, 21:24235
  performance of quinine sulfate, for dosimetry of ionizing radiation, 23:35529
  performance of trans-stilbene-doped polystyrene film, 23:41079
  performance of, effects of glycerol on x radiation effects on, 22:45101
  photosensitivity of clear Perspex, uv, 22:19169
  preparation of plastic, for electron and gamma dosimetry, 22:21365(P)
  properties and uses of ferrous sulfate, review on, 25:13305
  properties of aqueous or chloroform solutions of dyes as, 23:31366(T) (NP-tr-1786)
  properties of aqueous solutions of oxalic acid as, 23:29236
  properties of frozen Fricke solutions for use as, 21:23962
  properties of low-dose sensitive phosphate glass, 21:12692
  properties of oxalic acid dihydrate as, 22:42763
  radiation effects on acid production and color change in solid, x, 21:14472(R) (N-66-36055)
  radiation yield of trivalent iron from ferrous sulfate, neutron, (E), 25:51908
  radioinduced free radicals in polytetrafluoroethylene FBR of, 22:12654
  reaction yields of ferrous sulfate, effects of secondary electrons on, 22:10612
  readout calibration for Fricke, spectrophotometric, 25:18801
  readout equipment for chlorobenzene—ethyl alcohol, radiofrequency, 24:44340
  readout of ferrous sulfate, direct photon counting method for low-dose, 25:29386
  response for electron and gamma absorbed dose measurements in comparison to calorimetric dosimeters, 23:50180
  response of aqueous solutions of chloral hydrate, for neutron dosimetry, 23:43607 (UR-49-1135)
  response of cobalt glass, for gamma and x radiation, energy dependence of, 21:26244 (UCRL-50007-66-2, pp 23-6)
  response of ferrous sulfate, to 20-MeV electrons, depth dependence of, 22:375(R) (NYO-3510-3)
  response of Fricke, effects of container wall on, 24:2504
  response of polyethylene, blue cellophane, cinemoid, and radiachromic, for megarad dosimetry, 23:14045 (EGG-1183-2166)
  response of various, to gamma radiation and pulsed electrons, 25:35034
  sensitivity of benzoic acid—ferrous sulfate, effects of impurities and concentration on, 22:47385
  sensitivity of ceric sulfate, effects of fluorescein on, 21:6312
  sensitivity of ferro-ferri-sulfate systems for, improvement of, 22:49359
  sensitivity of ferrous sulfate, effects of addition of, 21:6312
  sensitivity of ferrous sulfate, temperature coefficient for, 25:446
  sensitivity of halohydrocarbons for, 23:24212 (BMwF-FBK-68-52)
  sensitivity of red Perspex 400 for use as, 21:1654
  stabilization of cupric sulfate—ferrous sulfate—sulfuric acid, by irradiation, 22:40470(P)
  storage of ferrous sulfate in small polystyrene cells on, reproducibility effects of, 21:14483
  sulfur purification and pelletization for, 22:12273 (K-1720)
  surface catalytic effects in nitrous oxide as gas-phase, 21:19978
  temperature effects on clear Perspex, 23:38329
  theory of glucose, for gamma radiation, 24:44338
  use as reactant in radiation chemical reactor, 22:30598
  use for gamma measurements in UTR-100 research reactor, 21:40677 (NP-16991)
  use in analysis of near-earth space radiation, 21:16836(T) (JPRS-38272, pp 17)
  use of copper sulphate and ferrous sulphate, in food irradiation facilities, 23:35971
  use of ferrosulfate, combined with cerium or thermoluminescent techniques for measurement of γ and neutron components of fast reactors, 23:43762
  use of ferrous sulfate, for determining correction factor of ion chamber dose measurements in Lucite phantoms, 21:14477
  use of ferrous sulfate, in electron beam therapy facility, 23:6525
  use of ferrous sulfate, with Victoreen Condenser Roentgen Meter, for circular mapping of cobalt-60 facility, 24:48541 (PAEC(D)-702)
  use of Fricke, errors in, 23:4843
  use of Fricke, for calibration of 520 Ci cobalt-60 gamma source, 23:9764
  use of Fricke, for interlaboratory comparative calibration of dosimeters, 22:51254
  use of polyethylene terephthalate, for colorimetric dosimetry of electrons, 23:2664(T) (NSJ-tr-125)
  use of potassium ferrioxalate, for x-ray dosimetry, 21:36409
  use of silver oxide-activated phosphate glass, for gamma and x radiation, 21:6315(P)
  use of triphenylmethane dye—cyanide solution, 21:36408
  yield of Fricke—Miller ferrosulfate, for 60-keV x radiation, 22:23332
RADIATION DOSIMETERS, COLORIMETRIC
  calibration of clear Perspex HX, 25:8568
  calibration of glass, for gamma dosimetry, 25:26521
  description of color indicator for beam monitoring at 0.2 to 10 Mrad, 25:35029
  design and production of plastic, for gamma dosimetry, 25:23863(P)
  development for irradiation control, 23:38261
  development of Amaranth, for low-level gamma radiation, 24:36631
  development of glass, for gamma dosimetry, 25:26521
  development of lithium fluoride, 24:29586
  development of, composed of polyvinylchloride composition and various dyes, 23:20020(P)
  development of, review on, 25:37649
  efficiency of, problems in determining, 23:14047
  performance of chloral hydrate solutions, 24:23032
  performance of cobalt borosilicate glass, temperature effects on, 24:33950
  performance of hydrated electron, for pulsed x-ray dosimetry, 23:47853
  performance of monocrystalline aluminum trioxide, for high neutron fluxes, 24:50639
  performance of polyethylene and cellulose diacetate, for fast neutron and gamma dosimetry, 24:503
  performance of polymethylmethacrylate, in the range 10 krad to 10 Mrad, 23:38332
  performance of Red 400 Perspex, for gamma dosimetry, 23:35532
  performance of thin-film triphenylmethane dye, for electron and gamma dose distribution measurements in plastics and aluminum, 24:14321
  performance of threshold, for sterilization of medical apparatus, 23:50194
  preparation and performance of cellulose acetate butyrate, for gamma dosimetry, 23:35531
  preparation of fused quartz, for use in range up to 10^9 rads, 23:41077(P)
  properties of, survey of, 24:27449
  response of cobalt borosilicate glass, with spectrophotometric readout, temperature effects on, 24:36629
RADIATION DOSIMETERS, EXOELECTRON
  characteristics for gamma dosimetry, 25:57836
  characteristics of barium sulfate photostimulated, 25:23858 (MIT-952-7, pp 157-61)
  characteristics of beryllium oxide, 25:18799 (ORNL-4584, pp 165-86)
  characteristics of, thermal fading, 24:21029
  design with G—M detector readout, 24:19251
  development and principles of, review on, 24:25311
  development and research on, 24:39369 (ORNL-4446, pp 251-70)
  development for personnel neutron dosimetry, 25:57833
  development of, 25:18799 (ORNL-4584, pp 165-86)
  development of, 24:19242 (MIT-952-6, pp 133-54)
  development of beryllium oxide, 24:27453
  development of beryllium oxide, for fast neutrons, 24:33947
  development of high-atomic-number, for high doses, 25:49017 (AD-718370)
  development of lithium fluoride, 25:437 (HASL-236)
  development of, review on, 25:29385
  development using lithium fluoride phosphors, 21:3320
  electron intensity from manganese- and lead-activated calcium sulfate, 24:48328
  fading characteristics of beryllium oxide, calcium sulfate, and lithium fluoride, thermal, 25:35026 (THAI-AEC-35, pp 21-3)
  preparation and properties of beryllium oxide, 25:57835
  preparation and uses of, 24:27422 (CONF-690540-, pp 441-63)
  properties of beryllium oxide and calcium sulfate, 25:21446 (RT/FI-(70)37)
  properties of beryllium oxide and lithium fluoride, 24:50638
  properties of metal-doped beryllium oxide, 25:32285

properties of optically stimulated and thermally stimulated, comparison of, 25:32284
readout detector for, proportional, 25:57834
readout equipment for, development of linear temperature controller, 24:39221 (ORNL-4446, pp 242-50)
readout equipment for, gas flow detector, 24:27423 (CONF-690540-, pp 464-70)
readout equipment for, preamplifier for G—M, 25:18644 (ORNL-4584, pp 152-64)
readout equipment for, windowless gas-flow Geiger—Mueller, 24:27452
readout for lithium fluoride, methane flow proportional detector for, 25:23876
readout of, development of proportional detector for, 25:26487
response of beryllium oxide and graphite mixture, at 2 mR to 400 R, 25:4380
response of lithium fluoride, effects of thermal annealing and environmental gases on, 25:15953
review of, 25:18811
theory of, review on, 25:23870

RADIATION DOSIMETERS, LUMINESCENT
see also Radiation Dosimeters, Photoluminescent
see also Radiation Dosimeters, Thermoluminescent
characteristics of PMMA, 21:11330
charge carrier trapping processes in, 23:16163(R) (NYO-3409-7)
description and performance of silver-activated phosphate glass, 21:1655
description of cobalt borosilicate glass, for gamma dosimetry, 23:24466 (AD-677373)
design and construction of europium-activated lithium iodide, for neutron dosimetry, 22:28178 (NP-17349)
design of, 21:22176
design of silver-activated phosphate glass, 21:26260(P)
design of system of phosphate glass, using two absorbers for dosimetry of gamma radiation below 45 keV, 23:20013(P)
design using lithium fluoride powder for measurements in small volumes of biological materials, 21:22178
development for γ- and x-ray dosimetry, 21:26262(P)
development of, 21:34497
development of anthracene—gelatin film degradation, for dosimetry of electrons and gamma radiation, 23:33539
development of controlled-defect, 23:33543(P)
development of high-sensitivity energy-independent glass, 25:29387
development of infrared-stimulated, with thermal stimulation for time-lapse indication, 23:7861 (CONF-680920-, pp 883-93)
development of phosphate-glass, sensitive to gamma rays, thermal neutrons, and x rays, 25:35037(P)
development of single-crystal ruby, for dosimetry of pulsed high-energy ionizing radiation, 22:43112
excitation of silver phosphate glass using ultraviolet laser radiation, 21:1656
fading in glass, for gamma doses above 10^9 R, 24:25309
operation of chemiluminescent luminol, 24:19248
performance for in vivo measurement of dose of gamma and x radiation for therapy, 25:21706
performance for low-level gamma measurements, 21:22174
performance for measurement of absorbed gamma and x dose in phantoms, 21:22176
performance for monitoring radioactivity in atmosphere, 21:41391 (KFK-551)
performance for x-ray dosimetry, 21:39511
performance of, 21:22175
performance of glass, for dosimetry of high-activity sources, 21:22169 (ISS-66/42)
performance of lithium fluoride, effects of heat treatment on, 21:22177
performance of lithium fluoride, using ultrasonic stimulation, 23:26593
performance of lithium-7 phosphate glass, for mixed neutron and gamma fields, 23:9771
performance of micro-, for in situ dosimetry of radium implants during therapy, 21:34666
performance of miniature implanted, for measurement of radiation dose to gonads of male mice, 21:28477
performance of silver-activated metaphosphate glass rod, for calibration of beta sources, 24:14313
performance of, for personnel monitoring, 21:6306 (UCRL-70171)
photosensitivity of Perspex, uv and visible, 21:10685
properties of silver-activated phosphate-glass, 21:1651
readout device for, design of prototype, 21:17900
response of Bragg—Gray-type anthracene—gelatin, for absorbed dose measurements, 25:55056
response of cobalt-activated borosilicate glass and silver-activated metaphosphate glass, gamma exposure rate and total exposure effects on, 23:24467 (AD-679028)
sensitivity of silver-activated phosphate glass, 22:6652 (ORNL-4168, pp 183-230)
shield assembly for silver-activated phosphor glass, lithium-6 fluoride—Teflon and lead, 24:7654 (K-1779)
theory of infrared-stimulated, 24:27437
theory of luminescent degradation, 24:27437
use for integrating dosimetry, 21:331
use for personnel dose-rate measurements, 21:30712
use for personnel monitoring, 21:26234 (CONF-650637-, pp 359-62)
use in analysis of near-earth space radiation, 21:16836(T) (JPRS-38272, pp 17)
use of ammonium sulfate complexes as fast-neutron, 21:18268(R) (PB-173549)
use of Ca fluorescence type, for direct intraureteral measurements, 21:6522
use of, for small beta-emitting sources, 21:10876 (ORNL-P-2516)

Radiation Dosimeters, Personnel
see particular types of dosimeters

RADIATION DOSIMETERS, PHOTOGRAPHIC FILM
accuracy for thermal neutron dosimetry, factors affecting, 23:47856
accuracy of readout services for, standard for, 25:42165
accuracy of, for assessing doses of β, γ, and x rays, 21:14665
analysis of γ and neutron, in Sweden during 1965, 21:10854 (AE-253)
analysis of, design of television system for dose distribution, 23:20017
backing materials for, effects of temperature on radiophotoluminescence of, 22:23337
book: Photographic Film Dosimetry, 21:34499
book: The Photographic Action of Ionizing Radiations, 24:2455
calibration and use for dosimetry of yttrium-90 beta sources, 24:31743
calibration errors in IFK, for gamma dosimetry, 25:23871
calibration for beta dosimetry, 22:23328 (IEA-141)
calibration for β particles, ionization chamber extrapolation method for, 21:1643
calibration for gamma dosimetry, design of jig for automatic, 23:26584 (AERE-R-6037)
calibration for neutron dosimetry using gold activation foils, 25:32275(T) (SC-T-713011)
calibration of beta-particle, effect of geometry on, 21:26256
calibration of Kodak PNM, for fast neutron personnel monitoring, 25:15949 (CLOR-80/D)
calibration of Kodak, for fast neutrons, 24:29589
calibration of personnel, with beta particles of different energies, 23:43609
calibration of, for beta and gamma dosimetry, 23:11878
calibration of, method for radiation protection of personnel during, 21:20221
calibration of, procedures for, 22:17023 (BNWL-542)
calibration of, use of gold activation detectors for neutron flux measurements for, 21:43241
calibration of, using radium-226 or cesium-137 gamma sources, 23:9766
characteristics and use for gamma and x rays, 25:26532
characteristics and use of polymer—gelatin, for fast neutron personnel dosimetry, 24:19246
characteristics for personnel monitoring, 25:29383 (JAERI-Memo-4292)
coding device for x-ray, design of, 21:45438(P)
commercial service for personnel, review of experience with, 22:36118
container radioactivity on, for monitoring contamination in laboratories using open sources, 22:21522
correlation of data from, with high-energy electron dose to organs of man following radiation accident, 23:8016(R) (ACRH-29)
data analysis of large-surface, for x radiation, 24:31739
data analysis of, numerical method for, 24:29582
data from Pakistan personnel monitoring, 23:48055
data from, computer programs for analysis of, 22:4483 (CERN-67-28)
data from, design of digital photometer for evaluation of, 21:43276
data from, development of computer-based system for processing, 21:28280 (IA-1095)
data from, quantimet for evaluation of neutron track, 23:47845 (KFK-845, pp 2.1-4)
data from, use of computer for analysis of, 21:18012(R) (BNWL-360(Rev.))
data processing of two-filter, 25:44697
data processing of, computer method for, 24:33946
description and use of personnel, 24:27457
description for absorbed dose, 22:40680
description for personnel dosimetry, 24:36626 (STI/DOC-10/109)
description for personnel monitoring, 24:33952
description of LASL personnel, 22:38101 (LA-3889)
description of radon gas sensitive, 21:17898
design and calibration of multifilter, for personnel monitoring, 23:47864
design and performance for measuring exposures to tritium in gaseous or water vapor form, 22:8399
design and performance for x ray dosimetry with low energy dependence, 24:19249
design and performance in combination with glass rods for gamma and x radiation, 21:26254
design for detection of radon and radon daughters, 21:8628(P)
design for intermediate and thermal neutron dose measurements, 21:1647
design for measuring fast and thermal neutron doses in mixed radiations using multiple filters, 22:19173(P)
design for use over wide dose range, 21:26444
design of combination security credential holder and, for particle and radiation personnel dosimetry, 23:697 (NVO-162-27)
design of personnel, for mixed gamma, beta, and neutron dosimetry, 22:38106(P)
design of personnel, for mixed radiations, 22:43117(P)
design of system for monitoring radon-222 and daughter products, 23:26554
design with filters for personnel gamma and thermal neutron dosimetry, 23:17810
design with unique locking device, 23:12122
development and use for personnel monitoring at UKAEA, 24:27443
development and use of survey packet for monitoring medical x-ray equipment, 23:24469 (MORP-68-4)
development for measurement of dose distributions, 25:21717
development for personnel dosimetry of beta particles and gamma and x radiation, 24:7657
development for personnel monitoring of radon decay products, 25:42171
development of high-contrast, using selective development with thin film dielectric track detectors, 25:2471(P)
development of miniaturized, for monitoring of radon in air, 21:10683
directional dependence for x rays at 23 to 138 keV, 25:23874
dose evaluation of, method for, 22:2433
dose rate dependence of, for flash x-ray systems, 21:18063
dose readout in personnel, x-ray absorption method for, 23:35523
efficiency for beta, gamma, and x-ray dosimetry, 22:10611
efficiency for personnel monitoring, 25:21716
efficiency of and x, effects of dose on, 23:12112
efficiency of automated, analysis of, 21:46999(R) (AERE-PR/HPM-11)
efficiency of, compared to direct-reading dosimeters, discussion on, 21:18053
efficiency of, design of optical densimeter for evaluation of, 22:43120
efficiency of, state of the art and methods for improving, 24:14272
errors in commercial badge, 25:26537
evaluation for personnel monitoring, 23:48069
evaluation for personnel monitoring in radiography departments, 23:45738
evaluation for use by individual personnel, 24:34325
evaluation of beta—gamma, matrix method for, 21:32486
evaluation of multicomponent, in mixed radiation fields, individual dose, 22:19165
evaluation of, automatic isodensity recorder for optical density, 22:381
evaluation of, automatic split-beam densitometer for, 23:26582 (AERE-R-5929)
evaluation of, computer program for, 21:20213
evaluation of, for use in medicine, 21:12878
evaluation of, standards of performance for film badge services for, 22:25857
fabrication and performance of self-developing, for gamma and x radiation, 21:36407
fading of neutron tracks in personnel, latent image, 22:38102 (MLM-1490)
film scanning for, densitometer for, 23:45562
filters for, for measurement of gamma and x radiation above 75 keV, 21:10678 (CLOR-51/D)
fogging in, low humidity induced, 21:12690 (UCRL-50007-66-1, pp 44-5)
holder design for, 25:37651(P)
holder design for, 25:37652(P)
image fading in neutron, for personnel monitoring, 24:2664
latent image fading in personnel, for neutron dosimetry, 23:9753 (MLM-1570)
light transmission of, design and performance of densitometers for measuring, 21:36404
operation and performance for dosimetry of high-energy electrons, 23:50179
optical densimeter for, 21:36404
optical density of, development of densitometers for determining, 21:26261(P)
particle track fading in neutron personnel, recoil proton, 23:4842
particle track fading of Kodak NTA, 25:44695
particle tracks in, design of automatic counter for proton-recoil, 23:43608
performance criteria for personnel, 22:33671 (BNWL-SA-1836)
performance criteria for personnel, 23:11752 (BNWL-481-2, pp 155-200)
performance data for personnel, statistical analysis of, 23:2672
performance for broad spectrum dosimetry of man, standards for, 22:28496
performance for cobalt-60 beam for radiotherapy, 21:12865
performance for determining dose distribution during telecobalt therapy of tumors in larynx, 23:35734
performance for dose measurements in radiotherapy, effects of calibration methods on, 23:31782
performance for dosimetry of 23-MeV electron beam, comparison of ionization chamber with, 25:42411
performance for dosimetry of betatron electrons in polystyrene phantoms, 21:28449
performance for dosimetry of electrons, 22:51611
performance for dosimetry of high-energy electron beams used in radiotherapy, effects of energy and depth on, 22:51265
performance for dosimetry of high-energy γ and x rays in superficial tissue layers, 22:49357
performance for dosimetry of personnel, 22:21520
performance for dosimetry of personnel, 22:21519
performance for dosimetry of, by dentists, 22:15009
performance for electron dosimetry in tissue-equivalent phantoms, 25:24184
performance for external dosimetry of gamma and x radiation for therapy, 25:21706
performance for fast neutron personnel dosimetry around Nimrod, 23:50178
performance for high-energy electron dosimetry, energy and depth dependence of, 23:20018
performance for high-level gamma dosimetry, 23:29231 (CNEA-232)
performance for local x-ray dosimetry, 23:26798
performance for measurement of β, γ, and x, 22:21513
performance for measurement of dose to human gonads during chest fluoroscopy, x, 22:25835
performance for measurement of dose to human radiologists during contrast media diagnostic radiology, relation of dosimeter placement to, 24:17045
performance for measurement of dose to personnel following rupture of cobalt-60 source, γ, 24:48569
performance for measurement of external β and γ dose to personnel at ORNL and WNRE, 22:51556 (AECL-3158)
performance for measurement of γ and x, 22:21523
performance for measurement of γ and x, 22:21512
performance for measurement of radiation dose in environs of synchrocyclotrons, 22:21529
performance for measurement of radiation dose to human body during diagnostic x radiography, 25:19038
performance for measurement of x radiation from radar electron tubes, 21:41423

performance for measurement of x radiation leakage from target housing of linear accelerator, 22:28498
performance for measurement of x ray attenuation in Saran at 2 and 3 keV, 25:6582
performance for measurements of dose and energy of x rays, effects of copper filters on, 23:2840
performance for measuring individual doses, comparison of, with photoluminescent and thermoluminescent dosimeters, 22:23523
performance for measuring mixed γ and x radiation, effects of absorbers on, 23:29506(R) (THAI.-AEC-21)
performance for monitoring, 21:26455
performance for monitoring medical personnel handling radium applicators, 23:43760(T) (TT-67-56003/6, pp 847-60)
performance for monitoring medical personnel, x, 25:37811
performance for monitoring of x ray dose to medical personnel, 22:28518
performance for monitoring radiation dose for personnel, 22:51581
performance for monitoring radiation dose to personnel in Belgium, 22:21518
performance for monitoring radiation dose to personnel in medicine and industry, 25:52095
performance for neutron fluence measurements, 24:7657
performance for personnel dosimetry, 22:21516
performance for personnel dosimetry, 24:48329
performance for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance for personnel dosimetry in France, 22:21533
performance for personnel dosimetry in Sweden, 22:21517
performance for personnel dosimetry of gamma and x radiation, 24:46522
performance for personnel gamma and x radiation dosimetery in comparison to lithium fluoride thermoluminescent dosimeters, 23:11882
performance for personnel gamma dosimetry in comparison to thermoluminescent dosimeters, 23:11883
performance for personnel monitoring, 23:50193
performance for personnel monitoring, 25:6583
performance for personnel monitoring, 25:52082
performance for personnel monitoring of alpha particles for measuring exposure to inhaled radon daughter products, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
performance for personnel monitoring of iridium-192, 24:2677
performance for personnel monitoring of tritium, 24:27421 (CONF-690540-, pp 119-25)
performance for personnel monitoring, effects of positioning on, 25:42442
performance for personnel monitoring, γ and x, 24:25490
performance for personnel neutron dosimetry, 25:18800(T) (SC-T-713009)
performance for protection of personnel, 22:49350
performance for radiotherapy personnel, development of standardization procedure for improving, 25:26756
performance for use in dental radiography, 21:34660
performance in combination with automatic color isodose curve plotter for dose determination in diagnostic radiography, 22:28228
performance in comparison to lithium fluoride powder for personnel dosimetry, 25:29384
performance in comparison to photoluminescent and thermoluminescent dosimeters, review of, 23:24468 (KFK-825)
performance in comparison to thermoluminescent dosimeters for measuring β dose rate to personnel, 25:35131
performance in mixed β- and γ-fields, 22:21516
performance in mixed γ- and neutron-fields, 22:21516
performance in personnel dosimetry, 23:11817
performance in radiation dosimetry, book on, 21:17901
performance in routine gamma-ray personnel monitoring, 21:10680 (NP-16507)
performance of, 21:6306 (UCRL-70171)
performance of commercial, for medical personnel, discrepancies in, 24:11850
performance of commercially available, evaluation of, 21:19977 (PPAD-611-E)
performance of DDR, for individual dosimetry in mixed beta, gamma, and x radiation, 22:36112 (SZS-6/68)
performance of DuPont 555, in comparison to lithium fluoride thermoluminescent dosimeters, 23:7857 (CONF-680920-, pp 814-29)
performance of Eastman NTA, for dosimetry of 14-MeV neutrons, 21:39277
performance of Kodak type III, 25:4383
performance of matched film, 25:32276
performance of personal FD III, with multielement filters, 24:48327
performance of personnel, of Pakistan AEC film-badge service, 23:14046 (PAECL/HP-9)
performance of Polaroid, for γ and x rays, 25:19005
performance of polycarbonate, for high-dose electron dosimetry, 23:20016
performance of, analysis of factors affecting, 21:38815(R) (BNWL-293)
performance of, comparison with lithium fluoride thermoluminescent dosimeters, 21:14637
performance of, comparison with solid-state dosimeters, 22:378
performance of, comparison with thermoluminescent dosimeters, 22:8397
performance of, effects of exchange interval of film on, 22:28490
performance of, standards for evaluation of, 21:36578 (NP-16866)
photographic process underlying, description of, 22:10610 (ORO-2036-3)
positioning on body in relation to protective clothing, 25:46867
preparation of foamed gelatin—silver halide, 24:48273(P)
processing and handling in Ceylon, monitoring service for, 23:48071
processing and handling in New Zealand, national monitoring service for, 23:48070
processing for high and very high radiation doses, 25:51909
processing of, evaluation of criteria for, 22:17023 (BNWL-542)
processing of, evaluation of procedures for, in EURATOM countries, 22:21523
processing of, evaluation of procedures for, in United States, 22:21521
processing of, mathematical method for computer, 25:42161 (NP-18892)
processing parameters for, optimization of, 25:32278
properties and use for criticality dosimetry, 24:27448
properties for measurement of beta rays and electron beams, 24:11776
radiation effects on performance of Kodak Personal Neutron Monitoring film types A, β, γ, and x, 22:51266
radiation effects on, atmospheric tritium, 22:33670 (BNWL-SA-1569)
radiation process in, 24:41666
reader and card punch system for beta—gamma, design and operation of automatic, 23:17806 (ORNL-TM-2154)
readout of Kodak PNM, for fast neutron personnel monitoring, 25:15949 (CLOR-80/D)
readout of thermal neutron dose equivalents in gamma field, correction coefficients for, 25:15950 (CLOR/IBJ-78)
readout of, automatic densitometer for coded, 25:18797 (AERE-R-6224)
readout of, development of x-ray fluorescence spectrometry for, 25:51914
readout of, equipment and method for, 24:39375(P)
reliability in whole-body dosimetry, 25:49172 (ARH-SA-87)
response of, effects of atmospheric tritium on, 23:26597
response of, photon energy and angular effects on, 24:11846 (AECL-2714)
scanning of fast-neutron, edge effects on, 21:43287
scanning system for semiautomatic reading of, 22:49353
sensitivity for measuring electron and photon dose distributions in phantoms, 25:39764
sensitivity improvement of, use of metal foils for, 24:25316
sensitivity of non-silver halide Kalvar, for gamma and x radiation, 23:22101
sensitivity of non-silver halide light-sensitive, for gamma and x dosimetry, 23:7880
sensitivity to γ radiation, effects of film density on, 21:22179
service in New South Wales, survey of, 24:2670
testing of double-emulsion type, 21:3316 (CLOR-FOTON-53)
theory of, 24:27351
use at NRTS, 22:10609 (IDO-12056)
use for determining effective energy of x radiation, 23:11874
use for dose calculations for therapy, 21:28256
use for dosimetry during radiation accidents, 23:708
use for dosimetry of medical personnel, 24:48548
use for industrial and medical personnel dosimetry in Czechoslovakia during 1966, 24:6041
use for measurement of low radiation doses, 22:6657
use for measuring exposure from dental x-ray machines, comparison with thermoluminescent dosimetry, 23:16323
use for monitoring medical personnel, 24:27584 (CONF-690540-, pp 439-40)
use for monitoring radiation dose to human population in environs of U. S. harbors docking nuclear-powered ships during 1968, 24:2668
use for personnel monitoring in Poland, 1966 results of, 22:49126 (CLOR-68)
use for personnel monitoring, rules for, 25:42164
use for protection of medical personnel, 23:33734
use for survey of industrial exposure to ionizing radiation in Czechoslovakia, 22:40674
use for thermal and intermediate neutron dose-equivalent measurements, 21:43286
use in Australia, 21:14359(R) (NP-16386)
use in cobalt-60 teletherapy, 21:24454 (NIRS-5, pp 57-62)
use in uranium mines, evaluation of, 21:20167(R) (COO-1500-3)
use of Kodak NTA, for fast neutrons, 22:16917
use of multifield, for medical personnel, 21:28452
use of personnel, recommendations for proper, 22:38101 (LA-3889)
use of positive, for personnel dosimetry of beta, gamma and x-ray dosimetry, 23:20015
use of, characteristics encountered in, 22:374 (NVO-162-30)
use on Gemini space vehicle, 21:45610 (AD-649385)
use with activation detectors for neutron dosimetry, 21:19893 (BNWL-339)
use with plane densitometer to analyze electron beam distribution for therapy, 23:6528

RADIATION DOSIMETERS, PHOTOLUMINESCENT
background and sensitivity in measurements with, standardization of, 23:20003 (CEA-CONF-1132)
bibliography on, 23:45559
capsule badge case for glass, design modifications for spherical, 23:11884
casing for silver-activated phosphate glass, design of, 22:38108(P)
characteristics and use of, 23:47862
characteristics for personnel monitoring, 25:29383 (JAERI-Memo-4292)
characteristics of, 25:26528
characteristics of silver phosphate glass, spectral, 25:15946 (ANL-7760(Pt.1), pp 13-20)
charged-particle depth dose distribution and range in glass, 23:11875
cleaning of silver-activated phosphate glass, procedure for, 22:19172
description for personnel dosimetry, 24:36626 (STI/DOC-10/109)
description for personnel monitoring, 24:33952
description of activated-glass, for personnel dosimetry, 22:43121(P)
description of lithium borate glass, 23:9939 (ORNL-4316, pp 231-69)
design and performance for thermal neutrons, 22:43125
design and performance of silver-activated phosphate glass, for personnel dosimetry, 22:8394
design and performance of silver-activated phosphate glass, for beta dosimetry, 23:7853 (CONF-680920-, pp 773-82)
design and performance of, survey of, 21:26214 (CONF-650637-, pp 3-33)
design for gamma and x-ray dosimetry, 22:36113(P)
design for gamma dosimetry, 23:20021(P)
design of phosphate glass, for simultaneous measurement of surface doses at different body positions during radiation accidents, 23:20007 (CONF-680507-, pp 244-8)
design of silver-activated metaphosphate glass, 23:706(P)
development and research on, 24:39369 (ORNL-4446, pp 251-70)
development and use for personnel monitoring at UKAEA, 24:27443
development and uses of, state-of-the-art in, 22:8391 (BNWL-SA-1543)
development for measuring absorbed dose in critical organs, 23:43612
development for personnel monitoring, 22:51268
development of, 22:21515
development of beryllium oxide, 24:33951
development of glass, for beta dosimetry at 30 keV to 2 MeV, 25:18810
development of lithium-7 glass, for gamma and thermal neutron dosimetry, 23:26588
development of phosphate glass, for gamma-ray, x-ray, and thermal neutron dosimetry, 21:39279(P)
development of phosphate glass, new aspects in, 25:26519 (NP-18747)
development of quartz, for γ-dosimetry at 5 to 50 krad, 23:40676 (BNL-50149, pp 40-75)
development of radio-, review of, 21:41280
development of radio-, review of, 21:41280
development of silver-activated phosphate glass, 23:47858
development of silver-activated phosphate glass, 23:47859
development of silver-activated phosphate-glass, 25:37655
development of, review on, 25:29385
development, use, and precision of, conference on, 23:45759
efficiency of silver-activated phosphate glass, for thermal neutron, x-ray β, and γ dosimetry, 21:36413
electro-optical techniques for ultrasensitive, 23:7848 (CONF-680920-, pp 670-6)
fabrication and performance of silver-activated phosphate glass, for neutrons and gamma rays, 21:34493 (SFL-A-7)
fabrication of silver-activated phosphate glass, 24:4499(P)
fluorescence decay of silver-activated glass, 24:29588
LET dependence of silver-activated glass, 23:7837 (CONF-680920-, pp 501-17)
linear energy transfer effects in, 23:9939 (ORNL-4316, pp 231-69)
luminescence decay of glass, laser ultraviolet source for studying, 23:45561
luminescent material composition for, for beta-, gamma-, and x-ray dosimetry, 22:38110(P)
operation principles of, for dosimetry of ionizing radiation, 23:20008 (CONF-680507-, pp 249-51)
optical absorption and fading kinetics of silver-activated lithium borate glass, 23:9773
performance for dosimetry in personnel, 22:21519
performance for dosimetry in personnel, 22:21520
performance for γ-dosimetry in human phantoms, 22:38325
performance for γ-ray dosimetry, 23:33721
performance for internal use in man, 22:38333
performance for measurement of γ and x, 22:21512
performance for measuring individual doses, comparison of, with film and thermoluminescent dosimeters, 22:23523
performance for neutrons, evaluation of, 25:6692 (CONF-691106-, pp 30-45)
performance for personnel dosimetry, 24:48329
performance for personnel dosimetry, 22:21515
performance for personnel monitoring, 25:6583
performance for personnel monitoring, 25:52082
performance in comparison to photographic film and thermoluminescent dosimeters, review of, 23:24468 (KFK-825)
performance in personnel dosimetry, 23:11817
performance of anthracene crystal, for fast neutrons, 25:51903 (COO-1105-166)
performance of cobalt-activated borosilicate glass, in mixed gamma—neutron fields, 22:51251 (AD-672475)
performance of DPM-1, for clinical dosimetry of cobalt-60 gamma radiation, 23:38328
performance of glass, for dosimetry of electron beams at 12 to 32 MeV, 25:42169
performance of glass, for high gamma doses, 25:18802
performance of phosphate glass, 23:16162 (CEA-CONF-1099)
performance of phosphate glass radio-, 21:26230 (CONF-650637-, pp 317-21)
performance of phosphate glass, for nuclear emergencies, 25:443
performance of phosphate glass, for personnel dosimetry, 23:16159 (BMwF-FBK-68-45)

- performance of phosphate glass, for personnel monitoring, 24:7658
- performance of silver-activated lithium borate glass, for gamma and neutron dosimetry, 23:9763
- performance of silver-activated metaphosphate glass, in mixed gamma—neutron fields, 22:51251 (AD-672475)
- performance of silver-activated phosphate glass, for personnel monitoring, 25:26518 (NP-18746)
- performance of zinc sulfide, for gamma dosimetry, 23:14057
- photon energy response of silver-activated phosphate glass, 21:39192(R) (UCRL-50007-67-1)
- photosensitivity of clear Perspex, 22:23333
- predose and sensitivity fluctuations in glass, 23:7849 (CONF-680920-, pp 677-88)
- predose concept in, 22:19167
- preparation of energy-independent doped lithium borate glass, 25:29388(P)
- preparation of phosphate glass, for dosimetry of thermal neutrons, gamma radiation, and x radiation, 23:33541(P)
- preparation of silver-activated lithium borate glass, 23:7814 (CONF-680920-, pp 148-60)
- preparation of silver-activated lithium borate glass, 23:9773
- properties and use of phosphate glass, for personnel monitoring, 24:27444
- properties of metaphosphate, 22:14858
- properties of silver-activated glass, 24:27438
- properties of silver-activated phosphate and lithium borate glass, 23:7814 (CONF-680920-, pp 148-60)
- properties of, review on, 22:36116
- radiation effects on, atmospheric tritium, 22:33670 (BNWL-SA-1569)
- radioinduced photoluminescence spectra of phosphate glass, comparison of gamma and neutron, 23:7838 (CONF-680920-, pp 518-24)
- reaction mechanisms of alkali halide, 22:31072
- readout device for, design of, 22:38111(P)
- readout equipment for phosphate glass radio-, 21:26230 (CONF-650637-, pp 317-21)
- readout equipment for silver-activated metaphosphate glass, 23:706(P)
- readout equipment for, design of, 23:35521(P)
- readout equipment for, use of uv lasers and photomultipliers as, 21:26211 (ANL-7220, pp 27-9)
- readout for, method for time-lapse, 24:502(P)
- readout method for phosphate glass, for personnel dosimetry, differential, 25:32274 (KFK-1323)
- readout system for phosphate glass, differential, 25:26519 (NP-18747)
- readout system for silver-activated phosphate glass, 24:27426 (CONF-690540-, pp 490-500)
- readout system for, design and performance of, 24:11848 (SFL-A-13)
- readout system for, design of pulsed ultraviolet laser, 23:2670(P)
- readout system for, development of ultrasensitive, 25:15946 (ANL-7760(Pt.1), pp 13-20)
- readout system for, uv Kerr cell for, 25:15961 (ANL-7760(Pt.1), pp 1-12)
- readout systems for, development of, 22:38116
- response of Bausch and Lomb low-Z glass rod, irradiated at temperatures up to 250°C, 21:36406
- response of cobalt-activated borosilicate glass, for gamma dosimetry, exposure-rate dependence of, 22:33667 (AD-664758)
- response of silver phosphate glass, for fast neutron dosimetry, 23:29230 (AD-681891)
- response of silver-activated metaphosphate glass, for gamma dosimetry, exposure-rate dependence of, 22:33667 (AD-664758)
- response of, effects of atmospheric tritium on, 23:26597
- sensitivity for gamma dosimetry in intense radiation fields, 22:21363
- sensitivity of silver phosphate glass rod, reprocessing effects on, 23:29229 (AD-681497)
- sensitivity of silver-activated metaphosphate glass, for neutron dosimetry at 1 to 14.6 MeV, 23:31557 (AD-682721)
- spectra from silver-activated phosphate glass radio-, method for measuring, 21:36403 (USNRDL-TR-67-66)
- stability of metaphosphate glass, 22:49131
- testing and uses for large-scale personnel monitoring, 24:27427 (CONF-690540-, pp 501-4)
- theory of, 24:27438
- theory of, 24:27437
- use for dosimetry during radiation accidents, 23:708
- use for dosimetry during therapy, evaluation of, 22:38325
- use in medical radiology, evaluation of, 22:45522
- use of glass, for dosimetry of fast and thermal neutrons, 21:26239 (CONF-650637-, pp 467-81)
- use of metaphosphate glass, for gamma dosimetry in reactors, 23:2590
- use of phosphate glass, for measurement of organ doses with reduced body influence, 23:7855 (CONF-680920-pp 783-806)
- use of phosphate glass, for routine dosimetry at Karlsruhe, 23:7858 (CONF-680920-, pp 830-52)
- use of phosphate glass, for x and gamma radiation dosimetry simultaneous with neutron activation dosimetry, 22:14859
- use of polyethylene, for electron dosimetry, 22:2436
- use of silver phosphate glass, for beam profile measurements, 21:29661 (DESY-67/12)
- use of silver-activated phosphate glass, 21:41285
- use of silver-activated phosphate glass, for dosimetry of cesium-137 gamma sources, 23:9758
- use to determine x-ray dose to medical personnel during diagnosis, 23:35754
- uses of infrared-stimulated, 21:26217 (CONF-650637-, pp 57-73)
- washing process for silver-activated phosphate glass, 23:38334
- x-ray depth—dose distribution in silver-activated phosphate glass, for determining exposure and radiation quality, 23:29235

RADIATION DOSIMETERS, THERMOLUMINESCENT
- accuracy of, techniques for improving inherent, 25:32283
- annealing effects on Teflon-encapsulated lithium fluoride, thermal, 21:32494
- annealing of lithium fluoride, 21:39276
- annealing of lithium fluoride, 23:35519 (ORAU-107, pp 37-9)
- annealing of lithium fluoride, for optimum sensitivity recovery, 23:20023
- annealing of lithium fluoride, low-temperature, 24:14326
- annealing of lithium fluoride, low-temperature peaks and pre-irradiation, 23:38326 (TID-25161)
- annealing of lithium fluoride, method for, 25:447
- annealing of lithium fluoride, optical absorption correlation for pre- and post-irradiation, 25:9574
- annealing of lithium fluoride, pre-irradiation, 23:701
- annealing of lithium fluoride—Teflon disk, 25:35024 (AEEW-M-991)
- annealing of quartz, method for, 25:32277
- annealing procedures for lithium fluoride (LiF), 23:28551 (DOCKET-50148-1)
- background reduction in EG and G model TL manganese-activated calcium fluoride, inherent, 22:40472
- bibliography on, 21:39269 (COO-1105-124)
- bibliography on, 22:25676
- bibliography on, 23:33546
- book: Thermoluminescent Dosimetry, 23:17807
- book: Thermoluminescent Dosimetry, 23:14049
- calibration and performance for dose distribution measurements in critical assemblies, 25:42048 (ANL-7710, pp 263-364)
- calibration for gamma dosimetry, design of jig for automatic, 23:26584 (AERE-R-6037)
- calibration of lithium fluoride, 23:35519 (ORAU-107, pp 37-9)
- calibration of lithium fluoride ribbon, for personnel neutron dosimetry, 25:15952 (RFP-1581)
- calibration of lithium fluoride, for dosimetry of high-energy electron, 22:51256
- calibration of lithium fluoride, for gamma dosimetry, 25:21447 (TID-24270, pp C.37-40)
- calibration of lithium fluoride, for point-source beta dosimetry in tissues, 22:38387
- calibration of lithium fluoride—Teflon, for internal beta dosimetry, 23:33534 (FOA-4-4389)
- calibration of Mark I lithium fluoride albedo, for personnel neutron dosimetry, 23:26586 (RD/B/N-1332)
- calibration of miniature lithium fluoride, for measuring absorbed gamma dose in liver of rats after incorporation of cesium-137, 23:38336
- calibration techniques for University of Kansas Research Reactor lithium fluoride (LiF), proposed, 23:28551 (DOCKET-50148-1)
- ceramic elements for, development of aluminum oxide, 23:27203
- characteristics for personnel monitoring, 25:29383 (JAERI-Memo-4292)
- characteristics of, 25:26528
- characteristics of dysprosium-activated calcium fluoride, 22:47383 (TID-24640)
- characteristics of lithium borate, with rf heating for readout, 25:57839
- characteristics of lithium fluoride, supralinearity and optical absorption, 22:30825(R) (UCRL-50007-67-3)
- characteristics of thulium-activated calcium sulfate, at high gamma doses, 25:15956
- characteristics of, for personnel monitoring, 22:38103 (TID-24522)
- conference on, 23:7802 (CONF-680920)
- data analysis for calculating integrated gamma dose equivalent and thermal neutron fluence, computer program for, 24:50635 (RD/B/N-1677)
- data processing for multi-sphere polyethylene-moderated, for neutron spectroscopy, 25:55036 (HASL-244)
- data unfolding of Bonner multisphere lithium fluoride, for neutron spectroscopy, computer method for, 24:44243 (CONF-691101-, pp 516-36)
- description and performance of calcium and lithium fluoride, 21:1655
- description and use at NRTS, 22:10609 (IDO-12056)
- description and use of lithium fluoride—Teflon, for personnel monitoring, 24:27446
- description and uses of, 23:43613
- description for personnel dosimetry, 24:27454
- description for personnel dosimetry, 24:36626 (STI/DOC-10/109)
- description for personnel monitoring, 24:33952
- description of, 25:18812
- description of alkali halide crystal, 24:16892 (JINR-P13-4848)
- description of alumina crystals as area criticality dosimeters, 24:39372(P)
- description of bismuth-doped zinc sulfide, for uv dosimetry, 22:19160(R) (NYO-3409-4)
- description of enamel-coated manganese-doped lithium fluoride for gamma and x-ray dosimetry, 21:34495
- description of europium- and magnesium-doped lithium fluoride, for personnel dosimetry at 10 to 100 mR, 23:2669(P)
- description of lithium fluoride, 23:35526
- description of lithium fluoride, 24:19245
- description of LRL personnel, 24:5934(R) (UCRL-50007-69-2)
- description of manganese-doped calcium sulfate, for detection of dispersions in airborne and aqueous waste, 23:7756
- description of spherical polyethylene-moderated, for neutron dosimetry, 24:21025 (LA-4335)
- design and calibration for dosimetry during extracorporeal gamma therapy of blood for leukemia, 24:14312 (RISO-M-1203)
- design and operation for dosimetry during nuclear catastrophe, 23:20005 (CONF-680507-, pp 225-36)
- design and operation of multifilter rhodium foil—thermoluminescent detector system for personnel neutron dosimetry, 24:4495 (BNWL-1159, pp 35-49)
- design and performance for environmental monitoring of gamma radiation, 24:2497 (SWRHL-58-r)
- design and performance of aluminophosphate glass, for personnel gamma dosimetry, 24:7662
- design and performance of aluminophosphate—manganese-activated glass, 23:7804 (CONF-680920-, pp 18-26)
- design and performance of calcium and lithium fluoride, 22:6654
- design and performance of calcium fluoride, for area and personnel monitoring, 23:47861
- design and performance of cylindrical moderated lithium fluoride, for neutron spectroscopy at thermal to 14 MeV, 24:33918 (RD/B/N-1416)
- design and performance of dyprosium-activated calcium sulfate, for short-term personnel dosimetry, 25:57847
- design and performance of LiF powder, for measurements of bone marrow absorbed dose, 22:38326
- design and performance of lithium fluoride, for finger-tip beta and gamma dosimetry, 22:2427 (AEEW-R-497)
- design and performance of lithium fluoride, for personnel dosimetry, 22:21364
- design and performance of lithium fluoride—Teflon, for personnel monitoring, 23:9752 (IDO-12064)
- design and performance of manganese-activated calcium fluoride, for personnel x and gamma accident dosimetry, 25:26516 (CLOR-82/D)
- design and performance of manganese-activated lithium borate, for gamma and x ray dosimetry, 23:47860
- design and performance of personnel, 23:7856 (CONF-680920-, pp 807-13)
- design and performance of solid lithium fluoride, 23:7808 (CONF-680920-, pp 60-77)
- design and performance of tandem lithium fluoride and manganese-activated calcium fluoride, for gamma- and x-ray dose measurements, 22:14854
- design and performance of, for gamma and x-ray dosimetry, 22:36114
- design and performance of, survey of, 21:26214 (CONF-650637-, pp 3-33)
- design for biological and personnel dosimetry, 23:33701(R) (AECL-3284)
- design for complex radiation, 22:8401(P)
- design for measuring radioactivity in fluids, 25:35035(P)
- design for mixed radiation, 22:47388(P)
- design of ceramic-coated, 23:20011 (CONF-680507-, pp 270-5)
- design of discs of lithium fluoride, incorporated in silicone rubber, 25:26539
- design of electrically heated, without enclosing glass envelope, 25:23861(P)
- design of glass, for gamma radiation, 21:19980(P)
- design of heat-stable lithium fluoride, 23:14051(P)
- design of lithium fluoride, 23:9769(P)
- design of lithium fluoride personnel, engineering drawings for, 25:21407
- design of lithium fluoride, for gamma and x-ray spectroscopy, 23:33483
- design of lithium fluoride, for personnel gamma dosimetry after criticality accidents, 23:2662 (DP-1006(Rev.1))
- design of lithium fluoride, for use in rectal catheter for therapy of carcinoma of uterine cervix, 23:11868
- design of lithium fluoride, mixed with photosensitive cadmium sulfide for readout, 23:29233(P)
- design of lithium hydride-doped lithium fluoride, for fast neutrons, 25:57831(P)
- design of manganese-doped calcium sulfate, based on solid-state analog of Bragg—Gray cavity, 23:2671
- design of micro-, for measuring iodine-131 and 132 sorption by thyroid, 24:6045
- design of mixed lithium fluoride—sodium silicate pellet, for measuring x-ray exposures down to 11 mR, 23:704
- design of modified commercial calcium fluoride, for simultaneous dose and energy measurements of x radiation, 23:41071 (COO-1105-151)
- design of multielement lithium fluoride, for personnel dosimetry, 25:46642 (BNWL-SA-3955)
- design of personal monitor using, for measuring cumulative working level exposure of uranium mining personnel, 24:19288 (MIT-952-6, pp 185-211)
- design of personnel badge of lithium fluoride, for neutrons, 25:26524(P)
- design of Teflon disc, for measurement of low-energy β, γ, and x ray doses to basal layer of skin, 25:49185
- design of Teflon-coated, for use as probe in radiodiagnosis, 22:8547
- design of temperature controller for, 24:41879 (BRH/DBE-70-1, pp 153-72)
- design of tissue-equivalent, for neutron and gamma-ray dosimetry, 23:9768(P)
- design of, for internal body organs, 21:10899
- design of, for use in γ- and x-ray dose measurements, 21:8627(P)
- design with dose rate and energy discrimination, 21:26246
- development, 22:14855
- development and application of, conference on, 21:26213 (CONF-650637)
- development and application of, survey of past and present, 21:26215 (CONF-650637-, pp 34-43)
- development and performance of LiF, 22:38330
- development and research on, 24:39369 (ORNL-4446, pp 251-70)
- development and use for personnel monitoring at UKAEA, 24:27443
- development and use for personnel monitoring in Belgium, 23:38333

development and use of lithium borate, for radiological dosimetry, 24:44339
development and uses of lithium fluoride and manganese-doped calcium fluoride, for gamma exposure measurements, 23:31561 (AD-684910)
development and uses of, state-of-the-art in, 22:8391 (BNWL-SA-1543)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development at Wisconsin, July 15, 1967 to August 31, 1968, 22:47383 (TID-24640)
development for gamma and x rays, 21:17902(P)
development for health physics, 21:22188 (BNL-994, pp 37-44)
development for incorporation into buildings for use after nuclear attack, 24:2505
development for personnel dosimetry, 25:57840
development for personnel dosimetry of gamma radiation, 21:26251
development for personnel monitoring, 22:51268
development for personnel neutron dosimetry, 24:29587
development for personnel neutron dosimetry, 25:57833
development for survey of human populations exposed to thorium and uranium in coastal sands of India, 25:37807 (NP-18729)
development in Italy, 24:9660
development in UK, survey on, 24:16890 (AHSB(RP)R-95)
development of, 21:34497
development of, 22:16919
development of activation filters—thermoluminescent detector combination for neutron dosimetry in mixed radiation field, 23:695 (BNWL-SA-1831(Rev.))
development of alumophosphate glass neutron personnel, 21:333
development of Bonner lithium fluoride, for personnel neutron dosimetry, 25:6474
development of calcium fluoride, 22:43128
development of calcium sulfate, 25:23862(P)
development of ceramic, for zone dosimetry in nuclear disaster, 23:2673
development of corundum, for γ monitoring of large areas, 24:7861
development of extruded lithium fluoride, for gamma dosimetry, 23:7854 (CONF-680920-, pp 751-72)
development of foil, capable of repetitive analysis, 25:18807(P)
development of heat-resistant, based on change of thermoluminescence sensitivity of quartz, 24:29585
development of high-atomic-number, for high doses, 25:49017 (AD-718370)
development of high-sensitivity tissue-equivalent manganese silicate, 25:57841
development of lithium borate, for use during γ and x radiotherapy for man, 22:38327
development of lithium fluoride pellet, 22:49128(P)
development of lithium fluoride, for dosimetry of charged particles, thermal neutrons, x rays, and γ rays, 22:4486
development of lithium fluoride, for gamma and x-ray dosimetry, 22:21355 (AAEC/TM-412)
development of lithium fluoride, for gamma dosimetry, 22:33676
development of lithium fluoride, for measurement at low energy levels, 22:45556
development of lithium fluoride, with memory effect, 21:16205 (CLOR-56/D)
development of lithium fluoride, with memory effect, 21:26253
development of lithium-7 fluoride—teflon, for personnel dosimetry, 24:25312
development of lithium-7 fluoride—Teflon, for personnel dosimetry, 25:32286
development of lithium-7-fluoride Teflon personnel, 25:26527
development of lithium-fluoride, 22:33672
development of manganese- and samarium-doped calcium sulfate, 21:26223 (CONF-650637-, pp 195-203)
development of manganese-activated lithium borate, 22:38104 (TID-24523)
development of manganese-doped calcium fluoride and calcium sulfate, 22:21360(T) (N-67-26397)
development of manganese-doped calcium fluoride, for measuring gamma ray doses, 21:16206 (CLOR-59/D)
development of manganese-doped lithium borate, 21:26219 (CONF-650637-, pp 113-17)
development of manganese-doped zinc fluoride and lithium fluoride, for x-ray dosimetry, 22:19162(T) (NSJ-tr-99)
development of miniature lithium-fluoride, for in vivo measurements, 21:1657
development of natural calcium fluoride, 25:440
development of personal, for alpha monitoring for uranium miners, 25:23770 (MIT-952-7, pp 183-210)
development of personnel, 22:23330
development of personnel system and portable instruments for, 25:11074(R) (AECL-3777)
development of polyethylene moderated, for neutron dosimetry, 25:15849
development of powdered calcium fluoride, for alpha and beta dosimetry in radioactive powder matrix, 23:7836 (CONF-680920-, pp 464-82)
development of terbium-activated lithium aluminosilicate glass, 21:26220 (CONF-650637-, pp 118-31)
development of, review, 22:16914
development of, review on, 25:23866
development of, review on, 25:29385
development using lithium fluoride powders bonded to high temperature plastics, 21:26249
development using lithium fluoride—lithium hydride mixtures for epithermal and fast neutrons, 24:16901(P)
development, use, and precision of, conference on, 23:45759
diffusion activated mechanism in lithium fluoride, NMR studies for, 24:44330 (COO-1105-157)
dose rate dependence of lithium fluoride, for flash x-ray systems, 21:18063
efficiencies of, measurement of intrinsic, 25:35032
efficiency and thermoluminescence spectrum of lithium fluoride, 24:21023 (HASL-219)
efficiency for fast neutron dosimetry, 21:43278
efficiency for personnel monitoring, 25:21716
efficiency for personnel radiation monitoring, 22:28113
efficiency of calcium and lithium compound, for gamma and x radiation dosimetry, 22:30870
efficiency of lithium fluoride, 22:8555
efficiency of lithium fluoride, effects of particle size on, 23:20025
efficiency of lithium fluoride, for gamma and x-ray dosimetry, particle size effects on, 22:43116
efficiency of lithium fluoride, for gamma dosimetry at 10^4 to 2 x 10^9 R, 22:12660
efficiency of lithium fluoride—Teflon, 21:41279 (IDO-12060)
efficiency of, measurement of intrinsic, 25:15945 (AD-711588)
electron trap depths and frequency factors for lithium fluoride, 23:41075 (TID-25160)
energy dependence of beryllium oxide, lithium fluoride, and manganese-doped lithium borate, for gamma and x radiation at 6 keV to 2.75 MeV, 23:7833 (CONF-680920-, pp 424-37)
energy dependence of lithium fluoride and manganese-doped calcium fluoride, irradiated with cobalt-60 gamma-rays and electrons up to 20 MeV, 22:375(R) (NYO-3510-3)
energy dependence of lithium fluoride, effect of radiation dose on, 21:14481
energy dependence of lithium fluoride, effects of total dose of x and gamma radiation on, 22:28184
energy dependence of LRL personnel lithium fluoride, for gamma and x radiation dosimetry, 23:31566 (UCRL-50007-68-3, pp 59-64)
energy response of calcium fluoride, lithium fluoride, and lithium tetraborate, 24:23030
energy response of calcium fluoride, lithium fluoride, and manganese-doped lithium borate, for electrons and x radiation at 6 to 22 MeV, 23:7832 (CONF-680920-, pp 410-23)
errors in lithium fluoride, due to sensitivity to light, 24:36634
evaluation for dosimetry during therapy, 22:38325
evaluation in medical radiology, 22:45522
evaluation of lithium fluoride-teflon disk, in Biosatellite II, 22:47529(R) (ORNL-TM-2190)
fabrication and performance of calcium fluoride, for gamma and x personnel dosimetry, 22:2428
fabrication and performance of manganese-doped calcium fluoride and lithium fluoride incorporated in Teflon, 21:1650
fabrication of lithium fluoride-doped polytetrafluoroethylene, 23:47854(P)
fabrication of multiple impurity-activated calcium sulfate, 23:9775(P)
fabrication of pellets of activated lithium fluoride, extrusion process for, 24:23027(P)
fabrication of powder, 25:451(P)
fabrication of sintered lithium fluoride, which can be reused without regeneration, 25:57848
fabrication of small-grained aluminum oxide, 25:55055(P)
fading characteristics of lithium fluoride—Teflon microrod, 23:7846 (CONF-680920-, pp 632-6)
fading characteristics of TLD-100 lithium fluoride, 22:16912
fading in lithium fluoride, after gamma doses up to 1000 rad, 22:6660
fading of manganese-activated calcium fluoride, 23:33538
fading of personnel monitoring, estimation of time after exposure from, 23:26592
for high doses, performance of lithium fluoride, 24:21044(T) (ANL-Trans-813)
gamma heating measurements in AARR mockup using manganese-activated calcium fluoride, 22:32960 (ANL-7310, pp 31-135)
glow curve from, method for quantitative analysis of, 22:14849 (BNWL-SA-1575)
hazards to personnel using lithium fluoride, 22:19248
heat treatment for lithium fluoride, for repeated use, 24:19241(T) (ANL-Trans-814)
heating of, design of constant power circuit for, 21:26247
heating rate control systems for, 23:4844
heating system for, design of dual, 22:43111(P)
holder for personnel, design of, 23:9774(P)
LET dependence of beryllium oxide, lithium fluoride, and manganese-doped lithium borate, 23:7833 (CONF-680920-, pp 424-37)
LET dependence of lithium fluoride, induced, 23:7828 (CONF-680920-, pp 353-63)
luminescence mechanism of lithium fluoride, role of color centers in, 25:11958
luminescence of, thermal quenching of, 24:5936
luminescence of, thermal quenching of, 24:5937
memory characteristics of calcium fluoride, 23:11881
operation and performance of, review on, 25:21449
operation and use of solid state Bragg—Gray, 23:31568
operation and uses of, 25:35028
operation of, 23:11880
optical absorption properties of magnesium-doped lithium fluoride and TLD-100, effects of pre-irradiation annealing on, 21:41276 (COO-1105-134)
optical properties of magnesium- and calcium-activated lithium fluoride, 23:702
performance and uses in health physics, 23:7871 (IDO-12068)
performance evaluation of lithium-7 fluoride, for personnel dosimetry, 25:4378 (BNWL-CC-2633)
performance for β dosimetry in soil, 24:34029(R) (UCB-34-P-23-X-1)
performance for cobalt-60 dosimetry in teletherapy, 23:9947
performance for direct measurements of radiation dose in aquatic animals and plants, 25:37795 (BNWL-SA-3712)
performance for dosimetry in cells of tissue culture, 21:43397
performance for dosimetry in human phantoms, γ, 22:38325
performance for dosimetry of electrons, 22:51611
performance for dosimetry of fast neutrons, 22:23533
performance for dosimetry of γ- and x radiation in phantoms, 22:28529
performance for dosimetry of x rays in swine, 22:23532
performance for external and internal dosimetry of oysters, 24:39468(R) (RLO-2225-T-1-2)
performance for fast neutrons in lucite phantoms, 25:55319 (UCD-472-118)
performance for gamma well logging of drill holes in Greenland, 25:6435 (RISO-219)
performance for γ and neutron dosimetry of personnel in criticality accidents, 25:21718
performance for γ depth dose measurements in swine, 25:6695 (CONF-691106-, pp 116-28)
performance for γ dosimetry in cervico-thoracic phantom, 22:51637
performance for γ dosimetry of human lung, 22:51612
performance for γ dosimetry of radium sources, 21:43395
performance for γ measurements, 21:26684(R) (ORNL-TM-1734)
performance for in vivo measurement of dose of gamma and x radiation for therapy, 25:21706
performance for measurement of γ and x, 22:21512
performance for measurement of γ radiation from iridium-192 implants in tumors, 21:26427
performance for measurement of natural background radiation in oysters and river sediments, 25:44888(R) (RLO-2225-T-1-8)
performance for measurement of natural background radiation doses in residences, effects of omission of energy filter on, 25:46827 (UCRL-72964)
performance for measurement of radiation dose to human body during diagnostic x radiography, 25:19038
performance for measurements of β-dose rate from therapeutic applicators, 22:51787
performance for measuring dose distribution in esophagus during radiotherapy, 24:19247
performance for measuring individual doses, comparison of, with film and photoluminescent dosimeters, 22:23523
performance for measuring partial-body and whole-body doses of β, γ, and x, 22:21526
performance for monitoring medical personnel, x, 25:37811
performance for monitoring personnel, 22:21514
performance for monitoring radiation dose to personnel in Belgium, 22:21518
performance for monitoring workers during transport of strontium-90—yttrium-90 β source, 25:42444
performance for neutrons, 25:6692 (CONF-691106-, pp 30-45)
performance for partial-body dosimetry, 24:31738 (JUL-640-ST)
performance for personnel dosimetry, comparison with photographic film dosimeters, 22:8397
performance for personnel monitoring, 25:52082
performance for personnel monitoring in uranium mines, 23:43755 (COO-1500-16)
performance for personnel monitoring of alpha particles for measuring exposure to inhaled radon daughter products, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
performance for pulsed x-ray systems, 21:18063
performance for use in uranium miner personnel air sampler, 23:41076
performance in 42 MeV betatron, effects of energy dependence on, 25:13446
performance in comparison to film badges for measuring β dose rate to personnel, 25:35131
performance in comparison to photographic film and photoluminescent dosimeters, 23:24468 (KFK-825)
performance in diagnosis and therapy in biology and medicine, 22:15013
performance in dosimetry in mixed gamma—neutron radiation field, 21:19893 (BNWL-339)
performance in in vivo dosimetry of gamma rays from cesium-137 ingestion in sheep, 21:26237 (CONF-650637-, pp 393-401)
performance in personnel dosimetry, 23:11817
performance limitations for low radiation dose measurements, 22:43115
performance of aluminum oxide, 24:44335
performance of beryllium oxide, 23:4850
performance of beryllium oxide, for gamma, neutron, and γ-ray dosimetry, 23:2658 (AD-670591)
performance of Bonner multisphere, for neutron spectrum measurements, 24:4421 (CEX-65.60)
performance of Bonner polyethylene-moderated, for measuring stray neutron spectra around accelerators, 24:50567
performance of CaF_2 and LiF, 23:2827
performance of CaF_2:Mn, for dosimetry of thermal neutrons, 22:17050(R) (EUR-3606)
performance of calcium and lithium fluoride, 21:10667
performance of calcium fluoride and lithium fluoride, for fast electrons, 25:26525
performance of calcium fluoride powder, for low-level natural background radiation measurements, 23:7822 (CONF-680920-, pp 281-90)
performance of calcium fluoride, for personnel dosimetry during excursions in critical assemblies, 22:36111 (LA-3910)
performance of calcium fluoride, for personnel gamma dosimetery in comparison to photographic film dosimeters, 23:11883
performance of calcium fluoride, in routine gamma-ray personnel monitoring, 21:10680 (NP-16507)
performance of calcium sulfate film phosphors for, 23:933(R) (NIRS-6)

performance of calcium sulfate, for studies of released activity distributions, 23:33532 (AE-362)
performance of calcium sulfide, for mixed gamma and neutron dosimetry, 25:57849
performance of calcium-doped potassium chloride monocrystals as x, 25:448
performance of calcium-fluoride, with fissile foil for fast-neutron dosimetry, 25:445
performance of commercial lithium fluoride, 25:29382 (COO-1105-120)
performance of dysprosium- and thulium-activated calcium sulfate, 25:44700
performance of dysprosium-activated calcium sulfate, for environmental monitoring, 24:14329
performance of encapsulated LiF, for dosimetry in bulk grain irradiator, 25:55234
performance of finger ring Teflon—lithium fluoride, 22:33669 (BNWL-741)
performance of fluorite, effects of mineral source on, 21:4575
performance of glass, for x and γ radiation, energy dependence of, 24:27451
performance of implanted, for dosimetry in beagle dogs, 22:10827(R) (UCD-472-114)
performance of implanted, for dosimetry of internally-deposited strontium-90 and yttrium-90 β particles, 23:22279(T) (AEC-tr-7019)
performance of implanted, for gamma-dosimetry in swine, 23:6340 (BNWL-714, pp 4.1-24)
performance of implanted, for x-ray dosimetry in rats, 21:45654
performance of lead- and manganese-activated calcium sulfate as, 24:21027
performance of LiF, for biological dosimetry, critical evaluation of, 25:49188
performance of LiF, for γ- and x-ray dosimetry, effects of hyperbaric oxygen on, 23:41328
performance of LiF-Teflon disc, for personnel accident dosimetry, 25:49191
performance of lithium fluoride, 22:51267
performance of lithium fluoride and manganese activated calcium fluoride, for low-level gamma dosimetry, 23:696 (HASL-201)
performance of lithium fluoride and manganese-activated calcium fluoride, for measuring intense electron dose rates, 22:45337(R) (NYO-3510-5)
performance of lithium fluoride crystal, for neutron dosimetry at 10 to 5000 Mrad, 23:14055
performance of lithium fluoride ribbon, for low-level environmental radiation, 24:41697 (HASL-233)
performance of lithium fluoride ribbon, for personnel neutron dosimetry, 25:15952 (RFP-1581)
performance of lithium fluoride, effects of thermal history on, 23:9761
performance of lithium fluoride, energy dependence of, 24:16900
performance of lithium fluoride, for calibration of 600 Ci cesium-137 gamma source, 24:31678 (ANL-7489, pp 125-7)
performance of lithium fluoride, for dosimetry in mR range, 23:41073 (TID-25158)
performance of lithium fluoride, for dosimetry of surfaces, 25:39766
performance of lithium fluoride, for electron, gamma, and thermal neutron dosimetry, 21:32484 (USNRDL-TR-67-56)
performance of lithium fluoride, for gamma and x radiation dosimetry, 21:19893 (BNWL-339)
performance of lithium fluoride, for gamma dosimetry, 22:12661
performance of lithium fluoride, for gamma- and x-ray dosimetry following nuclear accident, 22:8395
performance of lithium fluoride, for high-energy photons, 25:21453
performance of lithium fluoride, for measurement of radiation dose to chest, gonads, and hands of personnel, 25:49172 (ARH-SA-87)
performance of lithium fluoride, for measurement of depth doses of γ or orthovoltage x rays, 22:31086
performance of lithium fluoride, for measuring dose distributions of 10- to 29-MeV electrons in Lucite, 23:24473
performance of lithium fluoride, for measuring radiation dose to chironomidae larvae in pond contaminated with cesium-137, 23:11871
performance of lithium fluoride, for monitoring of radioactivity in Columbia River, 25:46841
performance of lithium fluoride, for personnel dosimetry, 25:35023 (AEEW-M-962)
performance of lithium fluoride, for personnel dosimetry of gamma and x radiation, 24:46522
performance of lithium fluoride, for personnel dosimetry, 21:26224 (CONF-650637-, pp 217-26)
performance of lithium fluoride, for personnel gamma and x radiation dosimetry in comparison to photographic film dosimeters, 23:11882
performance of lithium fluoride, for personnel neutron dosimetry at 0.5-eV to 10-MeV, 23:2659 (AEEW-M-801)
performance of lithium fluoride, for pion-beam dosimetry in tissues, 22:8600 (CONF-670305-, pp 368-81)
performance of lithium fluoride, for pulsed x-ray dosimetry, 23:47853
performance of lithium fluoride, for x-ray dosimetry in comparison to Fricke chemical and air ionization dosimeters, 23:7831 (CONF-680920-, pp 400-9)
performance of lithium fluoride, for x-ray spectroscopy by attenuation measurements, 24:36612
performance of lithium fluoride, in comparison to DuPont 555 film dosimeters, 23:7857 (CONF-680920-, pp 814-29)
performance of lithium fluoride, in comparison to photographic film dosimeters, 21:14637
performance of lithium fluoride, in comparison with photographic film for personnel dosimetry, 25:29384
performance of lithium fluoride, in mixed gamma—neutron fields, 22:51251 (AD-672475)
performance of lithium fluoride, in neutron fluence measurements in reactors, 23:33535 (HASL-206)
performance of lithium fluoride, incorporated in silicone rubber, 24:46521
performance of lithium fluoride, isotopic composition effects on, 23:9772
performance of lithium fluoride, statistical analysis of influence of preannealing on, 23:9760
performance of lithium fluoride, to measure whole-body x-ray dose to bones of dogs, 22:38280
performance of lithium fluoride, to supplement photographic film personnel dosimeters, 23:14046 (PAECL/HP-9)
performance of lithium fluoride—Teflon, 21:26229 (CONF-650637-, pp 308-16)
performance of lithium fluoride—Teflon, for surface dosimetry of beta and gamma radiation, 25:57837
performance of lithium-7 fluoride, for low-level ecological work, 24:31977 (ANL-7489, pp 116-17)
performance of lithium-7 fluoride, for neutron dosimetry in mixed gamma field, 25:15954
performance of lithium-fluoride, for proton depth—dose measurements in water, 24:29584
performance of lithium-fluoride, with beta and x-ray sources, 25:35139
performance of manganese-activated calcium fluoride, in mixed gamma—neutron fields, 22:51251 (AD-672475)
performance of manganese-activated calcium fluoride, 22:51267
performance of manganese-activated $CaSO_4$, for measurement of x-ray dose to human eye lenses, gonads, skin, and thyroid gland during dental radiography, 25:21719
performance of manganese-activated lithium borate, 22:51267
performance of manganese-doped calcium fluoride, for gamma rays, 21:1642
performance of manganese-doped lithium borate, 22:23329 (RISO-161)
performance of micro-, for in situ dosimetry of radium implants during therapy, 21:34666
performance of micro-, in primate phantoms, 22:8525 (CONF-670305-, pp 318-28)
performance of micro-, in x-irradiated rat cadavers, 22:28476
performance of miniature implanted, for γ depth-dose measurements in soil, 21:26233 (CONF-650637-, pp 402-11)
performance of miniature, attached to skin surface for γ dosimetry of reptiles and rodents, 21:26233 (CONF-650637-, pp 402-11)
performance of multisphere polyethylene-moderated lithium fluoride, for neutron dosimetry, 24:21024 (HASL-223)
performance of natural and manganese-doped calcium fluoride, for use in low dose problem areas, 22:16910 (HASL-189)
performance of natural calcium fluoride, for terrestrial ultraviolet radiation, 24:41695 (COO-1105-160)
performance of natural feldspar and quartz, separated from sands for accident dosimetry, 23:26598
performance of polycrystalline lithium fluoride, 25:10879
performance of polyethylene-moderated lithium fluoride for fast neutron dosimetry, 25:21443 (EUR-4540)
performance of rare earth-activated calcium sulfate, 23:7803 (CONF-680920-, pp 4-17)
performance of rare earth-activated calcium sulfate, 23:9770
performance of Ray-Alert, for television x radiation, 24:44325 (BRH/DEP-70-21)
performance of ring-type, for β and γ dosimetry of skin, 22:45558
performance of ruby, for gamma and x radiation, 23:7810 (CONF-680920-, pp 82-6)
performance of silver-doped phosphate glass, for large gamma doses, 24:27425 (CONF-690540-, pp 482-9)
performance of solid and pre-packaged lithium fluoride, for routine dosimetry by mail, 23:7867 (CONF-680920-, pp 951-62)
performance of strontium fluoride, 23:26596
performance of Teflon-imbedded lithium fluoride, for personnel, gamma and x radiation monitoring, 21:19893 (BNWL-339)
performance of throwaway powder lithium fluoride, 23:7809 (CONF-680920-, pp 78-81)
performance of titanium-doped lithium fluoride, 25:51912
performance of TLD-100 lithium fluoride, for mixed radiations, 25:8567
performance of, attached to free-living rodents, 22:33778 (UCLA-12-640, pp 45-60)
performance of, for dosimetry of electron beams, 21:8791 (COO-78-142, pp 1-81)
performance of, for dosimetry of fingers and hands, 21:12887
performance of, for in vivo measurement of gamma dose from cesium-137 deposited in sheep, 21:14633 (BNWL-280, pp 33-4)
performance of, for personnel monitoring, 21:6306 (UCRL-70171)
photomultipliers for light detection in, evaluation of, 21:3318
preparation and performance of copper- and silver-doped lithium fluoride, 21:26250
preparation and performance of glass, for use in range 30 mR to 3000 R, 23:41080
preparation and performance of manganese-activated lithium borate, 22:14856
preparation and performance of manganese-doped calcium fluoride, 21:26250
preparation and properties of combination lithium borate and lithium fluoride, for personnel monitoring, 25:57842
preparation and properties of lithium fluoride, 21:4715
preparation and properties of lithium fluoride materials for, 25:15955
preparation and properties of manganese-activated calcium sulfate, 25:44702
preparation and properties of manganese-activated calcium sulfate, 25:49024
preparation of calcium fluoride and lithium fluoride, 21:16206 (CLOR-59/D)
preparation of calcium sulfate, 25:23860(P)
preparation of crystal, glass, and sintered pellet manganese-activated lithium borate, 23:7811 (CONF-680920-, pp 90-117)
preparation of lithium fluoride, 23:4846(P)
preparation of lithium fluoride, capable of re-use without regeneration, 23:20004 (CEA-CONF-1138)
preparation of manganese-activated lithium borate, 25:39759 (NP-18813)
preparation of manganese-activated lithium borate powder, 23:7812 (CONF-680920-, pp 118-39)
preparation of manganese-activated lithium borate powder, 23:7813 (CONF-680920-, pp 140-7)
preparation of manganese-doped lithium borate, 24:21032(P)
preparation of polycrystalline lithium fluoride, 23:35522(P)
preparation of polycrystalline lithium fluoride, 25:10879
preparation of throwaway powder lithium fluoride, 23:7809 (CONF-680920-, pp 78-81)
preparation of, method for, 23:6314(P)
properties and uses of phosphor—Teflon, 24:27445
properties of, 24:27449
properties of beryllium oxide, 25:13304 (RT/PROT-(70) 23)
properties of beryllium oxide and lithium fluoride, 24:50638
properties of calcium fluoride, review of, 25:26522
properties of calcium sulfate, 25:23860(P)
properties of crystal, glass, and sintered pellet manganese-activated lithium borate, 23:7811 (CONF-680920-, pp 90-117)
properties of doped calcium sulfate, 23:7818 (CONF-680920-, pp 220-33)
properties of dysprosium-activated calcium fluoride, 23:45563
properties of dysprosium-activated calcium fluoride, 23:7806 (CONF-680920-, pp 43-53)
properties of enamel-coated manganese-activated calcium fluoride, 22:14857
properties of Korean natural quartz, for gamma dosimetry, 25:18813
properties of lithium fluoride, 24:31740
properties of lithium fluoride, 22:14858
properties of lithium fluoride, for gamma dosimetry, 25:21447 (TID-24270, pp C.37-40)
properties of lithium fluoride, for thermal neutron dosimetry, 24:27442
properties of lithium fluoride, in aqueous suspension, 25:39763
properties of magnesium-doped lithium fluoride and TLD-100, effects of pre-irradiation annealing on, 21:41276 (COO-1105-134)
properties of manganese-activated calcium sulfate, 23:20024
properties of manganese-activated lithium borate powder, 23:7812 (CONF-680920-, pp 118-39)
properties of manganese-activated lithium tetraborate, 22:47383 (TID-24640)
properties of manganese-activated lithium tetraborate, 23:7815 (CONF-680920-, pp 161-75)
properties of manganese-doped calcium fluoride and copper- and silver-doped lithium fluoride, 21:28284
properties of manganese-doped calcium fluoride powders, 25:37648 (NP-18864)
properties of manganese-doped calcium sulfate, 22:23335
properties of manganese-doped calcium sulfate, 22:40471
properties of manganese-doped magnesium sulfate, 21:6510
properties of natural calcium fluoride, 24:23025 (NP-18179)
properties of natural calcium fluoride, 21:26222 (CONF-650637-, pp 138-57)
properties of natural feldspar, for accident dosimetry, 24:29581
properties of powdered boron nitride, 24:19243(R) (NYO-3409-8)
properties of rare earth-activated yttrium oxide, 24:31741
properties of silver- and nickel-doped zinc sulfide—cadmium sulfide, for gamma dosimetry, 25:23864
properties of terbium-activated yttrium oxide—aluminum oxide, 23:7805 (CONF-680920-, pp 27-42)
properties of various, 24:27447
properties of, review on, 22:36116
radiation effects on gamma response of lithium fluoride, fast neutron, 24:27478 (ANL-7615, pp 201-3)
radiation effects on gamma response of lithium fluoride, fast neutron, 21:36405
radiation effects on lithium fluoride, ultraviolet, 23:35525
radiation effects on optical properties of doped lithium fluoride crystals, x, 24:23047(T) (ANL-Trans-812)
radiation effects on thermoluminescence of calcium fluoride and lithium fluoride, relations of temperature wth gamma, 25:39599
radiation effects on, atmospheric tritium, 22:33670 (BNWL-SA-1569)
radioinduced production of f-centers in lithium fluoride, rate dependence of gamma, 23:7825 (CONF-680920-, pp 322-6)
radioinduced thermoluminescence in calcium fluoride, predose effects on electron, 23:7829 (CONF-680920-, pp 364-88)
radioinduced thermoluminescence in lithium fluoride, predose effects on electron, 23:7829 (CONF-680920-, pp 364-88)

radioinduced thermoluminescence in manganese- and samarium-doped calcium sulfate, predose effects on electron, 23:7829 (CONF-680920-, pp 364-88)
radioluminescence in electron-excited lithium fluoride, effects of total dose on variations in, 23:7830 (CONF-680920-, pp 389-95)
reader for calcium fluoride, design of, 21:41277 (COO-1105-135)
readout device for lithium fluoride and zinc fluoride, with charge sensitive amplifier, 21:16211
readout equipment and method using increasing temperature stages, 25:18804(P)
readout equipment design for, 23:7847 (CONF-680920-, pp 640-51)
readout equipment for, 23:7850 (CONF-680920-, pp 689-704)
readout equipment for lithium fluoride, design of, 23:2660 (AEEW-R-607)
readout equipment for lithium fluoride, two-level isothermal, 23:699
readout equipment for low dosage, effects of blackbody radiation and photomultiplier response on sensitivity, 21:45436
readout equipment for manganese-doped lithium fluoride, 21:34495
readout equipment for natural calcium fluoride, 21:26231 (CONF-650637-, pp 331-9)
readout equipment for natural calcium fluoride, 25:440
readout equipment for pellet-type, 25:442(P)
readout equipment for, circuit for measuring peak voltage from photocell for, 23:20026(P)
readout equipment for, current-to-frequency converter for photomultiplier for automatic, 24:39399
readout equipment for, description of, 23:14048
readout equipment for, description of, 22:33675
readout equipment for, design and performance of nitrogen-heating, 24:29579 (RISO-M-1238)
readout equipment for, design of, 22:43110(P)
readout equipment for, design of, 23:33544(P)
readout equipment for, design of, 22:2404 (RT/EL-(67) 4)
readout equipment for, design of automatic, 23:26595
readout equipment for, design of fast charge-to-pulse converter for, 21:30731 (CLOR-64/D)
readout equipment for, design of Harshaw Model 2000 thermoluminescence analyzer, 23:7851 (CONF-680920-, pp 705-19)
readout equipment for, design of heater, 24:41701(P)
readout equipment for, design of heating device for, 23:11870(P)
readout equipment for, design of holder for, 23:14050(P)
readout equipment for, design of MOSFET charge-to-pulse converter for, 23:26585 (CLOR-69-D)
readout equipment for, design of photomultiplier-ratemeter, 23:7820 (CONF-680920-, pp 248-65)
readout equipment for, design of semi-automatic, 22:14853 (UCRL-70860)
readout equipment for, design of semiautomatic, 23:11865 (DPST-68-610)
readout equipment for, design of simple, 21:12686 (COO-1105-108)
readout equipment for, development of, 21:22173
readout equipment for, development of, 24:25307 (SLAC-PUB-731)
readout equipment for, fabrication of, 23:33533(T) (CEA-tr-X-656)
readout equipment for, heater and control circuits for determined rate of temperature rise for, 25:32281
readout equipment for, light sources for testing, 23:26594
readout equipment for, method of adjusting heating section of, 21:28282
readout equipment for, operation of, 23:11880
readout equipment for, rapid scanning spectrometer, 24:27471
readout equipment for, stability and reproducibility of, 23:16164 (RD/B/N-693)
readout equipment for, use of light source for testing, 24:25313
readout equipment for, using hot nitrogen gas, 23:24470 (UCRL-50007-68-2, pp 1-8)
readout equipment with temperature control for, design of, 23:16166(P)
readout for, method for time-lapse, 24:502(P)
readout instrument for, for milliroentgen exposure levels, 21:12685 (COO-1105-106)
readout method for, 25:57832(P)
readout of calcium fluoride, for total dose measurements of gamma and x radiation, 24:2499
readout of manganese-doped calcium fluoride, effects of ultraviolet exposure on, 22:25677
readout of natural fluorite, nonlinear heating method for, 24:27455
readout system for low and high temperature, 24:2496 (CLOR-75/D)
readout system for LRL personnel, 24:5934(R) (UCRL-50007-69-2)
readout system for, automatic, 25:23878
readout system for, cadmium sulfide photoresistor—operational amplifier, 23:38323 (COO-1105-153)
readout system for, design and performance of, 24:11848 (SFL-A-13)
readout system for, design of, 24:9697(P)
readout system for, evaluation of, 22:47383 (TID-24640)
readout system for, improved heating method for, 25:23865(P)
readout system for, linear seven-decade current-to-frequency converter for photomultiplier for, 24:2519 (UCRL-71766(Rev.1))
readout system for, programmed heating device for, 24:16891(T) (ANL-Trans-809)
readout system for, programmed temperature controller for, 24:4494 (AERE-M-2180)
readout system for, semiautomatic, 25:21456
readout system for, temperature controller for, 24:2501
readout system for, use of hot nitrogen gas in, 23:698 (UCRL-71089)
readout system for, using heated inert gas, 22:14756(R) (UCRL-50007-67-2)
readout systems for, using hot nitrogen gas for heating, 25:57843
reproducibility of TLD-100, for high-energy electrons and photons, 24:27424 (CONF-690540-, pp 471-81)
research at Phillipine AEC, 25:57845
research at Univ. of Wisconsin, nine year review on, 24:39317(R) (COO-1105-154)
response curves for, linearity of, 24:14327
response for electron and gamma absorbed dose measurements in comparison to calorimetric dosimeters, 23:50180
response for fast neutron dosimetry, 24:4496 (BNWL-1159, pp 49-65)
response for personnel fast neutron dosimetry, 23:38322 (BNWL-1080)
response for photons at 8 to 1250 keV, 23:17750 (LA-4052)
response in polystyrene phantom to 15-MeV electrons and cobalt-60 gamma radiation, 24:21028
response of beryllium oxide, calcium fluoride, and lithium fluoride, to thermal and fission neutrons, 23:2667
response of calcium fluoride and lithium fluoride, for dosimetry of alpha particles, 23:7835 (CONF-680920-, pp 456-63)
response of calcium fluoride and lithium fluoride, for electrons and gamma radiation, energy dependence of, 22:16915
response of calcium fluoride and lithium fluoride, to beta particles, 21:26210 (ANL-7220, pp 23-7)
response of calcium sulfate—lithium sulfate, to thermal neutrons and gamma rays, 25:51906
response of CON-RAD type-7 lithium fluoride, thermal neutron irradiation effects on, 24:16897
response of doped calcium sulfate, for neutron and gamma dosimetry, 23:43604 (COO-1105-150)
response of finely powdered lithium fluoride, for beta dosimetry, 23:45557 (RD/B/N-1372)
response of lithium fluoride and calcium fluoride, for gamma and x radiation, 22:25678
response of lithium fluoride and manganese-activated lithium borate, to low-energy x rays, 24:25317
response of lithium fluoride and manganese-activated calcium fluoride, to protons at 5 to 137 MeV, 24:21030
response of lithium fluoride and manganese-activated lithium borate, for gamma and x-ray dosimetry, quality and LET effects on, 23:31556 (AD-682198)
response of lithium fluoride and manganese-doped calcium fluoride, for protons at 5 to 137 MeV, 23:7834 (CONF-680920-, pp 438-55)
response of lithium fluoride to γ-rays and reactor neutrons, (E), 21:32890
response of lithium fluoride, annealing time and temperature dependence of, 23:9751 (COO-1105-116)
response of lithium fluoride, at low doses, 22:40473
response of lithium fluoride, at low doses, linearity of, 24:31736 (ANL-7489, pp 124-5)
response of lithium fluoride, for beta particle, alpha particle, and neutron dosimetry, 23:16164 (RD/B/N-693)
response of lithium fluoride, for dosimetry of electrons up to 33 MeV and cesium-137 gamma radiation, 23:50181
response of lithium fluoride, for electrons, energy, 25:35027
response of lithium fluoride, for gamma dosimetry, exposure-rate dependence of, 22:33667 (AD-664758)
response of lithium fluoride, for gamma- and x-ray dosimetry at 30 keV to 20 MeV and 10 mR to 1000 R, 23:16164 (RD/B/N-693)
response of lithium fluoride, for x and gamma radiation, effects of rate and energy over wide exposure ranges on, 23:11879
response of lithium fluoride, in lead spheres for measuring photon dose around accelerators, 24:27432 (HASL-226)
response of lithium fluoride, lithium-7 fluoride, and dysprosium-doped calcium fluoride, for x-ray dosimetry, 25:49021(R) (UCRL-50007-71-1)
response of lithium fluoride, neutron irradiation effects on gamma, 24:14325
response of lithium fluoride, to background radiation, 21:26212 (ANL-7220, pp 115-19)
response of lithium fluoride, to beta particles for skin dosimetry, 23:4840 (RD/B/N-830)
response of lithium fluoride, to low and high energy electrons and high energy deuterons, 22:49133
response of lithium fluoride, to neutrons and gamma radiation, 23:7839 (CONF-680920-, pp 525-42)
response of lithium fluoride, to radiations of different LET, 23:38330
response of lithium fluoride, to radiations with different LET, 22:21357 (COO-1105-129)
response of lithium fluoride, to reactors neutrons in mixed gamma field, 24:14316
response of lithium fluoride—Teflon, to 100-keV x rays, 22:38114
response of lithium-7 fluoride, relation between encapsulation and apparent fast neutron-induced fading of, 25:15947 (ANL-7760(Pt.1), pp 21-7)
response of lithium-7 fluoride, to ultraviolet radiation, 25:39762
response of manganese-activated calcium fluoride and lithium fluoride, gamma exposure rate and total exposure effects on, 23:24467 (AD-679028)
response of manganese-activated calcium fluoride, for gamma dosimetry, exposure-rate dependence of, 22:33667 (AD-664758)
response of manganese-activated calcium fluoride, in polytetrafluoroethylene matrix to electrons, 22:49130
response of manganese-activated lithium borate, 25:39759 (NP-18813)
response of manganese-activated lithium borate powder, to gamma radiation and neutrons, 23:7813 (CONF-680920-, pp 140-7)
response of miniature and Teflon-disc lithium fluoride, for gamma dosimetry, 23:7872 (LA-4027)
response of mixtures of manganese-activated calcium fluoride and organic liquid, for thermal and fast neutron dosimetry, 24:4498
response of partially irradiated lithium fluoride, for beta and gamma dosimetry, 24:2498
response of terbium-activated magnesium orthosilicate, effects of energy and incidence angle on, 25:44701
response of TLD 700, to reactor neutrons for gamma dosimetry in mixed field, 25:4382
response of TLD-100 lithium-fluoride, to millirad doses, 22:2432
response of various, to gamma radiation and 14-MeV neutrons, 24:25308 (UR-49-1272)
response of, cavity theory study on energy, 24:36633
response of, effects of atmospheric tritium on, 23:26597
response of, effects of grain size and photon energy on, 24:25314
response of, energy dependence of, 24:33949
response of, photon energy and angular effects on, 24:11846 (AECL-2714)
response of, role of encapsulation in apparent fast neutron-induced fading of, 25:23875
response of, role of encapsulation in apparent fast neutron-induced fading of, 25:26536
response of, theoretical analysis of dose and dose rate dependences of, 22:45339
response to fast neutrons, 23:694 (BNWL-SA-1830)
sensitivity and linearity of calcium fluoride and lithium fluoride, effects of residual thermoluminescence on, 25:57844
sensitivity changes in lithium fluoride and manganese-doped lithium borate, after subcutaneous implantation in rats, 23:7868 (CONF-680920-, pp 963-75)
sensitivity for gamma dosimetry in intense radiation fields, 22:21363
sensitivity of lithium fluoride and manganese-activated calcium fluoride, for neutron dosimetry at 1 to 14.6 MeV, 23:31557 (AD-682721)
sensitivity of lithium fluoride, after repeated use, 23:20023
sensitivity of lithium fluoride, annealed at 500°C, 25:21445 (RD/B/N-1872)
sensitivity of lithium fluoride, annealing atmosphere and grain size effects on, 24:19244
sensitivity of lithium fluoride, effect of annealing temperature and grain size on, 24:31742
sensitivity of lithium fluoride, effects of thermal treatments on, 22:28186
sensitivity of lithium fluoride, for dosimetry of intense electron beams at 5 to 43 MeV, 25:42167
sensitivity of lithium fluoride, to gamma radiation and high-energy electrons, 23:22099
sensitivity of lithium fluoride—Teflon disk, dependence on annealing temperature, number of cycles, and optical density of, 25:35024 (AEEW-M-991)
sensitivity of lithium fluoride—Teflon, effects of mass variations on, 25:32279
sensitivity of lithium-fluoride, effects of defect structure on, 25:1284
sensitivity of manganese-doped calcium fluoride, in mixed neutron—gamma field, 25:32282
sensitivity of, for gamma dosimetry, 22:43113
sensitivity to ultraviolet radiation, 25:26517 (COO-1105-164)
spectra from, data transfer system for digital analysis of, 21:17897
standardization of β, construction of 4-π exposure chamber for, 25:10936 (UCB-34-P-23-15)
supralinearity of lithium fluoride, 24:46523
supralinearity of lithium fluoride, effects of grain size and initial trap density on, 24:33948
supralinearity of ultraviolet repopulated TLD-100, 24:44329 (COO-1105-156)
theory of, 24:27437
thermal quenching of gamma-excited lithium fluoride, 23:7842 (CONF-680920-, pp 587-606)
thermal quenching of gamma-excited manganese-doped lithium borate, 23:7842 (CONF-680920-, pp 587-606)
thermal quenching of gamma-excited manganese-doped calcium sulfate, 23:7842 (CONF-680920-, pp 587-606)
thermal quenching of gamma-excited manganese-doped and natural calcium fluoride, 23:7842 (CONF-680920-, pp 587-606)
thermal quenching of gamma-excited terbium-doped lithium aluminosilicate glass, 23:7842 (CONF-680920-, pp 587-606)
thermal quenching of x-ray excited lithium fluoride, 23:7841 (CONF-680920-, pp 568-86)
thermal quenching of x-ray excited manganese-doped calcium sulfate, 23:7841 (CONF-680920-, pp 568-86)
thermal quenching of x-ray excited manganese-doped and natural calcium fluoride, 23:7841 (CONF-680920-, pp 568-86)
thermal quenching of x-ray excited terbium-doped lithium aluminosilicate glass, 23:7841 (CONF-680920-, pp 568-86)
thermoluminescence and color centers in magnesium-doped lithium fluoride, 23:7823 (CONF-680920-, pp 302-9)
thermoluminescence glow curves of dysprosium-doped calcium fluoride, spectral analysis of, 23:7845 (CONF-680920-, pp 623-31)
thermoluminescence glow curves of lithium fluoride, for various types and concentrations of dopants, 23:41072 (TID-25156)
thermoluminescence glow curves of manganese-doped lithium fluoride, spectral analysis of, 23:7845 (CONF-680920-, pp 623-31)
thermoluminescence glow curves of powdered lithium fluoride, 23:41074 (TID-25159)
thermoluminescence in, color of spurious, 23:7821 (CONF-680920-, pp 266-80)

thermoluminescence of gamma irradiated calcium fluoride and lithium fluoride, temperature effects on, 24:36627 (UCLA-12-781)
thermoluminescence of lithium fluoride, effects of various impurities on, 24:14315
thermoluminescence of lithium fluoride, two-level isothermal readout of, 23:699
thermoluminescence of lithium fluoride, wavelength dependence of photostimulated, 23:41070 (COO-1105-149)
thermoluminescence of magnesium-doped lithium fluoride, computer assisted theoretical and experimental analysis of, 23:7844 (CONF-680920-, pp 613-22)
thermoluminescence of TLD-100 lithium fluoride, supralinearity and sensitization in, 25:35076
thermoluminescence process of lithium fluoride, adapted model for LET dependence of, 23:41053
thermoluminescence properties of lithium fluoride, effects of quenching temperature and rate on, 24:50637
thermoluminescence response in lithium fluoride, supralinearity in, 23:7827 (CONF-680920-, pp 341-52)
thermoluminescence response of lithium fluoride and manganese-doped lithium borate, supralinearity of, 23:7826 (CONF-680920-, pp 332-40)
thermoluminescence response of manganese-doped calcium fluoride and lithium fluoride, effects of temperature on, 21:41281
thermoluminescence spectra of lithium fluoride and manganese-activated lithium borate, 23:17808
thermoluminescence spectra of lithium fluoride, analysis of, 24:23033
thermoluminescence spectrum and energy conversion efficiency of lithium fluoride, 23:7843 (CONF-680920-, pp 607-12)
thermoluminescent glow curve of quartz, heating rate dependence of shape of, 24:5969
thermoluminescent traps in lithium fluoride, ultraviolet repopulation of, 22:47383 (TID-24640)
titanium impurities in TLD-100 lithium fluoride, use of electron spin resonance measurements for determining, 23:7824 (CONF-680920-, pp 317-21)
toxicity in rats, 23:7866 (CONF-680920-, pp 944-50)
toxicity of lithium fluoride in, for rats, 21:45637
triboluminescence of, 21:26227 (CONF-650637-, pp 244-56)
ultraviolet irradiation of natural calcium fluoride, for multiple reading capabilities, 24:27447
use during therapy using radioisotopes, 21:26439
use for determining natural radiation levels in oak trees under field conditions, feasibility of, 21:18045
use for dose measurements in reactor cooling water condensers, 25:49018 (ANL-7760(Pt.3), pp 26-9)
use for dosimetry at National Reactor Testing Station, 23:7852 (CONF-680920-, pp 722-36)
use for dosimetry during radiation accidents, 23:708
use for integrating dosimetry, 21:331
use for measurement of γ and neutron components of fast reactors, 23:43762
use for medical dosimetry, 25:39771
use for monitoring fingers of personnel giving γ implant therapy for uterine carcinomas, 21:28485
use for personnel dosimetry, 23:7878
use for shielding studies in reactor environment, 24:31748
use in analysis of near-earth space radiation, 21:16836(T) (JPRS-38272, pp 17)
use in hospital physics, evaluation of, 21:20220
use of aluminophosphate glass, for measurement of background radiation in Soviet Union, 21:16212
use of arrays of lithium fluoride, for ecological dosimetry, 25:21688 (TID-24270, pp C.41-7)
use of beryllium oxide and lithium fluoride, for personnel monitoring in glove box operations, 21:12689 (UCRL-50007-66-1, pp 28-36)
use of beryllium oxide in, 25:784
use of calcium fluoride, for ultraviolet dosimetry, 21:41278 (COO-1105-136)
use of europium-activated yttrium and yttrium-encorporated phosphors for accident dosimetry, 23:7807 (CONF-680920-, pp 54-9)
use of extruded and powdered lithium fluoride, for three-dimensional dose distribution measurements, 23:7870 (CONF-680920-, pp 990-9)
use of extruded lithium fluoride, for depth—dose distribution measurements in phantoms, 23:7869 (CONF-680920-, pp 976-89)
use of glass-encapsulated, for measuring exposure from dental x-ray machines, comparison with film dosimetry, 23:16323
use of implanted, for measurement of dose absorbed by organs and tissues in rats, 25:52196
use of lithium fluoride, 21:3319
use of lithium fluoride (TLD-100), for tissue dose measurements in high energy charged-particle beams, 21:26238 (CONF-650637-, pp 412-17)
use of lithium fluoride, as LET meter, 23:7828 (CONF-680920-, pp 353-63)
use of lithium fluoride, for direct intercomparison of dose measurements of electrons and x rays, 21:26235 (CONF-650637-, pp 363-71)
use of lithium fluoride, for dose calibration and distributions of high-energy electron beams, 21:1652
use of lithium fluoride, for doses greater than 0.1 M rad, 22:25675
use of lithium fluoride, for dosimetry near high-energy accelerators, 23:2665 (SLAC-PUB-500)
use of lithium fluoride, for dosimetry of beta particles, 21:26240 (CONF-650637-, pp 482-9)
use of lithium fluoride, for evaluation of reactor neutron shielding, 21:19979
use of lithium fluoride, for high-precision dosimetry, 23:7865 (CONF-680920-, pp 936-43)
use of lithium fluoride, for low level personnel dosimetry, 21:26252
use of lithium fluoride, for low radiation exposure measurements, 22:14850 (HASL-191)
use of lithium fluoride, for measuring dose distribution of 15-MeV electron beam, 21:34496
use of lithium fluoride, for measuring exit doses from lung and pharynx treated by radiotherapy, 21:26236 (CONF-650637-, pp 372-9)
use of lithium fluoride, for personnel monitoring at National Reactor Testing Station, 21:14476
use of lithium fluoride, for thermal neutron flux measurements, 21:36411
use of lithium fluoride, in personnel thermal-neutron albedo dosimeter, 22:51253 (RD/B/R-828)
use of lithium fluoride—Teflon, in health physics, 22:8398
use of lithium-7 fluoride, for gamma dosimetry in mixed gamma—neutron fields, 23:7840 (CONF-680920-, pp 545-51)
use of lithium-fluoride, for intercomparisons of electron and x-ray dose, 21:1649
use of manganese-doped calcium fluoride, for electron beam dosimetry at EGG/AEC linear accelerator, 22:26735 (EGG-1183-2140)
use of manganese-doped calcium fluoride—Teflon, in health physics, 22:8398
use of manganese-doped calcium sulfate—Teflon, in health physics, 22:8398
use of phosphor—Teflon, for measuring dose rate to finger from radioactive jewelry, 23:9765
use of rubies as, 21:32489
use of Teflon tubes containing lithium fluoride powder as, 21:12694
use of, for fast-neutron monitoring of personnel employing body-moderation, 21:4809
use of, for measurement of gamma dose from therapeutic radium implants, 21:14662
use with lithium fluoride for clinical dosimetry, evaluation of, 23:43766
uses of manganese-doped calcium fluoride, review of, 21:26232 (CONF-650637-, pp 340-8)

RADIATION DOSIMETRY

accuracy for internal α emitters in man, 23:50481 (PHS-999-RH-33, pp 128-38)
accuracy in relation to variations in biological response of man, 22:21528
accuracy of, effects of size of detector on, 24:23205
albedo concept in, 23:11872
analysis in personnel, external, 23:4966
analysis of tissue, α, β, γ, neutron, and proton, 23:4969
atomic excitation energies of materials for use in, mean, 22:45943
bibliography of radiophotoluminescence, 23:45559
bibliography on, 22:23327 (AED-C-21-06)
bibliography on, 23:7800 (AED-C-21-7)
bibliography on, 22:14846 (AED-C-21-04)
bibliography on, 22:14847 (AED-C-21-05)
bibliography on solid-state, 22:14852 (STI/PUB-21/23)
bibliography on thermoluminescent, 21:39269 (COO-1105-124)
bibliography on thermoluminescent, 22:25676
book: Basic Physics for Dosimetry and Radiation Protection, 25:46846
book: Dosimetric and Radiometric Methods, 21:24239
book: Dosimetry and Protection Against Ionizing Radiation, 25:42425
book: Dosimetry and Protection from Ionizing Radiation, 22:12650(T) (AD-663372)
book: Dosimetry of Ionizing Radiations, 22:21359(T) (AD-663930)
book: Handbook of Radioactive Nuclides, 24:50917
book: Health Physics. Principles of Radiation Protection, 21:20228
book: Manual on Radiation Dosimetry, 24:33954
book: Mathematical Theory of Radiation Dosimetry, 22:38109
book: Measuring Methods Using Ionizing Radiation, 25:29391
book: Medical Radiation Physics, 25:16275
book: Photographic Film Dosimetry, 21:34499
book: Physical and Technological Principles of Irradiation Schemes, 25:24282
book: Principles of Nuclear Medicine, 22:49411
book: Problems in Dosimetry and Radiation Protection, in Russian, 25:32390
book: Problems of Dosimetry and Radioprotection, 23:50455
book: Radiation Dosimetry of Incorporated Radioactive Substances, 24:48549
book: Radiation Dosimetry, Vol. I, 22:45338
book: Radiation Dosimetry. Vol. II. Instrumentation, 21:17901
book: Radiation Dosimetry. Vol. III. Sources, Fields, Measurements, and Applications, 25:24159
book: Radiation Medicine, 25:11091
book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
book: Radium Dosage: The Manchester System, 22:45550
book: Radon Waters and Their Therapeutic Properties, 23:12179
book: Reports on Radiation Protection, 23:4972
book: Solid-State Dosimetry of Ionizing Radiation, 24:19250
book: The Physics of Radiology, 24:46646
book: Thermoluminescent Dosimetry, 23:14049
book: Thermoluminescent Dosimetry, 23:17807
book: Transmission and Absorption. A General Rule for Ionizing Radiation, 25:6705
calculations for Siemens 42 MeV betatron, 23:20234
calculations for therapy, computer programs for, 25:4514
calculations in rads/esu at various energies, 23:9759
calculations in three dimensions in intracavity and interstitial, 23:2848
calibration and use of instruments for, handbook on, 22:10779
catalogue of data sheets obtainable from IAEA, 25:16151
cavity theory in condensed-state, 21:3326
charge carrier trapping processes in solid-state, 23:16163(R) (NYO-3409-7)
computational techniques for β, 23:2817 (AD-671660)
computer for medical, design and use of analog, 21:20195
conference of Japan Radiological Society, 23:45799
conference on, 23:7802 (CONF-680920)
conference on accelerator, 24:45624 (CONF-691101)
conference on luminescence, 21:26213 (CONF-650637)
conference on methods for neutron, 25:6689 (CONF-691106)
conference on methods for use following criticality accidents, 25:11056 (STI/PUB-241)
conference on micro-, 22:38254 (EUR-3747)
conference on microscopic, 24:44476 (EUR-4452)
conference on neutron, for seed irradiation program, 24:17160 (STI/DOC-10/92)
conference on nuclear medicine, 24:50873 (CONF-691212)
conference on problems in, of irradiations from external sources, 23:45759
conference on problems in, of irradiations from external sources, 23:45758
conference on solid state, 25:44704
conference on solid state and chemical, in medicine and biology, 22:14851 (STI/PUB-138)
conference on techniques for, in high-energy radiotherapy, 23:50491
conference on Thorotrast, in animals and man, 23:26920
conference on, around accelerators, 25:3476 (JINR-16-4888)
conference on, Radiation Research Society, 24:6029
correction for dose build-up areas in therapy, 23:45757
data compilation of personnel exposures in Italy using photographic film dosimeters, 24:25490
data for personnel, computer program for processing, 23:2823 (RT/FIMA-(68)3)
data for, review of physical, 25:44804
data recording in medical, evaluation of, 24:29762 (DMRE-69-3, pp 172-9)
definition of "energy imparted" in, (T), 25:45523
definition of international terms and units used in, 23:50525
definition of kerma for, 23:38574
design of new film badge for, 23:12122
determination for Biosatellite II project, 23:16375(R) (ORNL-TM-2311)
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development for nuclear accidents, 21:39278
development in nuclear medicine, review of, 24:50874 (CONF-691212-, pp 7-15)
development of apparatus for, long-wave x-ray, 23:29511
development of computer program for, 22:4608 (UR-49-861)
development of instruments for, in Netherlands, progress report for 1970, 25:16089(R) (EUR-4545)
developments at Battelle-Northwest, 1968, 24:4617 (BNWL-1159)
developments in, 25:18870
developments in calorimetric, review on, 21:16208 (UCRL-50173(Suppl.1))
developments in Federal Health Office in Germany, 25:21678 (NP-18631, pp 122-35)
developments in Federal Health Office, Germany, 25:21677 (NP-18630, pp 103-11)
developments in, progress report on, 25:37769(R) (BNWL-1551(Pt.2))
effects of scatter on, in therapy, formula for, 23:50493
equation for time-dose factors in therapy of epitheliomas, 23:45751
equipment and methods for, 21:24239
equipment and methods for, 25:51907
equipment and methods for neutron, at irradiated fuel element treatment plants, 21:43290
equipment and methods for, at CERN synchrocyclotrons, 22:21529
equipment and methods for, at CNEN, 22:6653 (RT/PROT-(67)12)
equipment and methods for, developments in, 22:36250 (CONF-660815)
equipment and methods for, near high-energy accelerators, 22:8392 (CONF-670305-, pp 329-45)
equipment and methods for, of personnel in x-ray departments of hospitals, 21:43277
equipment and methods for, on Apollo and Gemini space vehicles, 22:16918
equipment and procedures for, in radiobiology, evaluation of, 22:23529
equipment for accelerator, design of pulse integrating, ionization chamber, 21:17845
equipment for Fast Burst Reactor Facility γ and neutron, performance of, 24:33456
equipment for, selection and data interpretation criteria for, 23:9694 (BNWL-SA-2128)
errors from differences in skin thickness, 24:12067 (RD/B/N-1480)
evaluation at therapy institutions, IAEA comparison program for, 25:35141
experiments in, instruction manual for, 21:330 (AD-631318)
fundamentals of, handbook of basic, 23:20214 (HMI-B-78)
gamma, for human populations in Arctic region, cesium-137, 23:6337 (A-AC-82/G/L-1183)
indicators for, biochemical, 23:29712(R) (PG-Report-897)
instrumentation for environmental and personnel, research on, 24:50901(R) (UCRL-50007-70-1)
instrumentation for use in radiotherapy, design of automatic, 21:24211
instrumentation for, review of basic, 23:33385 (CEA-CONF-1263)
intercomparison of gamma and neutron, for nuclear accidents, 23:9939 (ORNL-4316, pp 231-69)

isodose charts for radium tube, for use in therapy, 23:33727
isodose curve corrections for, in telecesium therapy, 21:22466
isodose curves for, construction of, using photographic film, 24:813
isodose curves for, using thermoluminescent dosimeters, 25:35139
laboratory training manual in, 24:50928 (TID-25375)
materials for thermo-voltaic, study of, 21:14478
mathematical relations for absorbed dose, exposure, kerma, and LET, 23:31753(T) (ORNL-tr-1555)
method for absorbed dose distribution measurements around small radioactive particles, 24:2506
method for accidents using chromosome aberrations, 23:22305
method for biological cell survival, time correction calculator for, 23:9757
method for calculation of high energy electromagnetic waves, 23:43776
method for cinefluorography, 23:20240
method for deep-sea core, natural thermoluminescence, 24:332
method for electrons and photons, luminescence of air as pulsed, 24:46518
method for fast neutron, using integral LET spectra to calculate mean quality factor, 24:27592
method for human organs using scan records, 23:35728 (ORAU-107, pp 151-5)
method for integral, with a plastic scintillator phantom, 21:22418
method for intense electron pulses, thermoelastic response, 25:8569
method for internal, 21:10859 (CMN-Pub-2/65(Suppl.1))
method for internal isotope, in human organs, using scan data, 24:12078
method for intracavitary, in mice and phantoms, γ and x, 23:50523
method for measuring effects of space flight on Neurospora, passive, 24:4621(R) (ORNL-TM-2730)
method for meson (π^+) and (π^-), 23:14163(T) (UCRL-Trans-1351(Rev.))
method for neutron, in man using activated calcium-49, 24:4619 (BNWL-1159, pp 3-6)
method for neutron, in man using activated sodium-24, 24:4618 (BNWL-1159, pp 1-2)
method for neutron, using Monte Carlo calculations, 23:45729 (ANL-7535, pp 134-7)
method for non-equilibrium conditions, 23:26796
method for personnel using etched fission tracks in plastic foils, neutron, 23:31751 (NP-17848)
method for personnel, using nuclear track registration in solid material, neutron, 22:49348
method for rotation therapy of tumors of human esophagus using transmission measurements, 23:31793
method for teletherapy of mammary carcinomas in man, cobalt-60 γ, 23:43840
method for two-detector, for dispersed mediums, x, 23:12101
method for wedge filters in Gammatron-Siemens apparatus for use in therapy, 23:43777
method for, energy absorption spectrum—radiation dose operator, 23:4838(T) (NSJ-tr-137)
method of photo-stimulated crystal, using induced current transient, 22:23341(P)
method using chromosome aberrations in human lymphocytes, 23:35731 (UCSF-10-P-2-80)
method using laryngeal phantom, 21:26543
method using strontium to calcium ratios in hair of rats, 21:22239(R) (NYO-2147-12)
methods and data at Nimrod targets, 23:28067
methods and equipment at UKAEA, 24:27443
methods associated with fallout measurements, 23:20185 (CONF-680507-, pp 165-9)
methods at radiochemical processing plants in Belgium, 25:11082
methods at Saclay and Grenoble research reactors, 23:7801 (CEA-R-3423)
methods for, 25:39717
methods for accidental internal or external exposures, 23:832
methods for accidental overexposure, physical and biological, 23:50477 (CEA-CONF-1336)
methods for accidents at critical assemblies in United Kingdom, 25:11084
methods for accidents at critical assemblies in Yugoslavia, 25:11083
methods for Auger electron, in biological materials, 23:22289 (NYO-3086-8, pp IX.1-19)
methods for betatrons, in human cadavers, 23:29514
methods for bremsstrahlung, γ and x, 22:4613
methods for β, γ, and x, 22:377
methods for Chlamydomonas cells exposed to high LET radiations from Van de Graaff accelerator, 24:4623
methods for critical assemblies in Poland, 25:11080
methods for critical assembly areas and personnel in Japan, 25:11081
methods for critical assembly areas and personnel in France, 25:11079
methods for depth, in rectangular fields, evaluation of, 25:529
methods for determining dose rates in Escherichia coli, electron, 23:6470
methods for DIDO Reactors, improvements in, 23:31202 (TRG-Report-1754)
methods for electron beams, review of, 23:6531
methods for environmental, γ and x, 22:45531
methods for experimental radiobiology, 24:50656
methods for external and intracavital, mathematical calculations for, 23:35752
methods for fast neutron, 24:44328 (COO-1105-155)
methods for fast reactor, 25:44102
methods for fast-neutron, Raman effect and ESR, 25:51904 (COO-1105-168)
methods for γ and x, 22:21512
methods for high-energy, review on activation detector, 24:14324
methods for human populations following accidental release of isotopes, 25:16172
methods for human populations using measurement of natural radiation within buildings in East Germany, 24:48532
methods for in vivo, review on, 25:24171
methods for interface between β-emitter and another medium, 21:22364(R) (BNWL-235-2)
methods for Megarad fields, lectures on, 24:10214 (CERN-69-12)
methods for megarad, used at CERN Synchrotron, 22:43124
methods for micro-, of charged particles, 24:21022 (CEA-CONF-1444)
methods for neutron, for irradiation studies on power reactor steel pressure vessels, 25:44117
methods for nonionizing radiations, 24:32258
methods for particles above 300 MeV, review of, 25:23868
methods for personnel, 21:45620 (ORNL-4146, pp 36-55)
methods for personnel and work areas, 22:21509
methods for personnel at AB Atomenergi in Sweden in 1968, γ and neutron, 24:2652 (AE-369)
methods for personnel at AB Atomenergi, Sweden during 1969, 25:42392 (AE-423)
methods for personnel at Boris Kidric Institute, 25:58018
methods for personnel, at Project Milrow, 24:23215 (NVO-294-3)
methods for personnel, evaluation of, 24:9830
methods for personnel, following accidents, 24:7854
methods for personnel, in large-scale nuclear emergencies, 23:20187 (CONF-680507-, pp 175-86)
methods for personnel, review of, 25:18811
methods for personnel, standards for, (E), 25:34879
methods for personnel, testing of, 24:4637
methods for primary and secondary beams of CERN 600-MeV proton synchrocyclotron, 22:39536
methods for protective shelters, 22:4386
methods for radiobiology and radiation protection, 24:27440
methods for radiobiology with respect to biological variations, review on, 25:39869
methods for radioisotope diagnosis of lungs, review of β and γ, 24:29749
methods for radioisotope sources in interstitial therapy, β and γ, 24:29836
methods for radiotherapy using external beams of γ or x, 24:48542 (STI/DOC-10/110)
methods for reactor in-core, comparison of differential and heat-flow calorimetric, 23:52416
methods for research reactors, review of gamma and neutron, 22:12110
methods for skin, problems in, 23:12069 (RD/B/N-1007)
methods for space, 25:24163
methods for space radiation environment, 24:27596
methods for therapy of cervical cancer, 23:35827
methods for therapy using non-radioactive materials, 21:20303
methods for transition-zone, review of theoretical and experimental, 25:24168
methods for tumor therapy, 24:41887
methods for ultra-high-energy sources, 21:41389 (BNL-50005)
methods for ultrahigh frequency electromagnetic fields, 24:27591
methods for, at high-energy accelerators, 22:9730
methods for, following nuclear explosions, 23:20186 (CONF-680507-, pp 170-4)
methods for, in biological materials, based on absorbed energy and RBE data, 21:12875
methods for, review of, 21:16366
methods for, survey of, 25:35137
methods for, using multi-detector systems, 23:17805 (JAERI-5017, pp 143-8)
methods in cobalt-60 irradiation facility, chemical, 22:10498 (AECD/HP-6)
methods in electron beam therapy, conference on, 23:6526
methods in industrial processing plants, 25:23869
methods of, during nuclear catastrophes, 21:12852
methods of, for brain of rats and guinea pigs, 21:6693
methods of, problems in, 23:14047
methods used in food irradiation facilities, 23:35971
methods used in radiation effects studies with fast burst reactors, review of passive, 23:17804 (EGG-1183-2207)
methods used in tissue, in fast-neutron facility in an Argonaut reactor, 24:7838
microscopic, using spherical phantom, 21:41275 (BNWL-SA-1003)
model for human gastrointestinal tract, mathematical, 23:29497 (CEA-R-3707)
model for internal, in man following isotope inhalation, 23:50461 (PHS-999-RH-33, pp 33-44)
modification in biological materials by quality factors, 22:38319
nomenclature for, 22:38288
nomenclature for, use of ionendosis in, 22:45555
nuclear accident program for, at Goodyear Atomic Corporation, 21:24403(R) (GAT-R-397)
operations at Princeton—Pennsylvania accelerator, 23:17026 (PPAD-654-E)
planning for optimal, in static fields, 24:36761
principles of industrial, 23:16308
principles of, review of, 24:29743 (DMRE-69-3, pp 5-59)
problems in hyperbaric oxygen therapy, 23:41329
problems in industry, review of, 24:31956
problems in radiobiological high-energy electron, 23:50496
program at AB Atomenergi during 1966, results of, 22:31057 (AE-312)
program for personnel at Bologna Health Physics Laboratory, 23:29521
program for personnel, at AB Atomenergi, 1967, 23:12058 (AE-342)
program for personnel, at Karlsruhe Nuclear Center, 24:23023 (NP-18058)
program in medical, IAEA, 23:50497
program in Turkey, using photographic film, 1962 to 1969, 25:35135 (CNAEM-77)
program of Atomic Bomb Casualty Commission in Japan for survivors of Hiroshima and Nagasaki, 23:9939 (ORNL-4316, pp 231-69)
program of Commonwealth X Ray and Radium Laboratory, 1969 annual report of, 24:31985(R) (NP-18121)
programs for medical, review of IAEA, 24:21171
projects at NRTS during 1968, 23:41314(R) (IDO-12071)
properties of temperature-stimulated exo-electron emission, design of heating control circuit for studying, 23:50175 (ORNL-TM-2687)
quality factor definitions for, 25:42441
quality factor definitions for, 25:42443
quality factor for, measurement of, 25:39867
quality factor in, definition of, 23:45749
quantities in, definitions of dose equivalent, linear energy transfer, quality factor, and reference dose, 25:42440
recommendations for neutron, 23:50439
record keeping for, 24:29744 (DMRE-69-3, pp 82-90)
reference standards for β and neutron, 22:51586
reference standards for normal man and disease-afflicted man, comparison of, 24:50879 (CONF-691212-, pp 87-102)
research, 22:8390 (AHSB(RP)M-46)
research activities on, during 1967, summary of French, 23:2821 (NP-17597, pp 137-50)
research at Argonne National Laboratory in, 1968 annual report of, 23:45859(R) (ANL-7535)
research at Chalk River Nuclear Laboratory on methods in, in relation to environmental problems, 24:39450(R) (AECL-3451)
research at Columbia Univ., July 1, 1970, 25:8676(R) (NYO-2740-7)
research at CRNL during 1970, 24:48391(R) (AECL-3611)
research at Harwell during 1969, 24:44473(R) (AERE-PR/HPM-14)
research at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
research at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
research at IAEA laboratories, 1969, 24:25328(R) (STI/DOC-10/103)
research at Idaho Operations Office, AEC, 1968, 23:41315 (IDO-12071, pp 8-13)
research at JAERI during 1969 and 1970, progress report on, 25:8693(R) (JAERI-5025)
research at MIT, May 1970, 25:24426(R) (MIT-952-7)
research at Pacific Northwest Lab., 1969, 24:48537 (BNWL-1307(Pt.2), pp 50-1)
research at Radiation Bio-Effects Laboratory on, 23:33708 (PHS-PUBL.-1809, pp 21-44)
research at Sloan-Kettering Institute during July 1, 1970 to June 30, 1971, 25:55208(R) (NYO-3510-18)
research in, 21:3317 (ORNL-P-2686)
research in applied, at Columbia University, 23:48045(R) (NYO-2740-6)
research in biological and clinical, at Sloan-Kettering Institute during 1964 to 1970, 24:50899(R) (NYO-3510-16)
research in, progress report on, 21:45661(R) (ORAU-101)
research on chemical and solid-state, at National Physical Laboratory, Teddington, England, 22:43129
research on instrumentation and methods for, EURATOM-ITAL, 24:39587(R) (NP-18287)
research on instrumentation and techniques for, summaries of AEC sponsored, 24:46593 (TID-4065)
research programs in Australia during 1970 on, 25:21687 (CONF-700834-(Absts.))
research programs in, among atomic bomb survivors in Hiroshima and Nagasaki, ABCC report on, 23:24750(R) (ABCC-67-68)
research programs of AEC during 1970 on, 25:44293 (TID-25728)
research progress on, 23:20081(R) (MIT-952-5(Pt.1))
review of current concepts of, critical, 24:2658 (SJC-A-69-2)
review of standards and techniques for external, internal, and public, 25:24164
service for personnel, organization aspects of, 25:44694 (UCRL-73254)
service for, use of automatic data processing for handling documentation of national, 23:12123
solid-state, proceedings of NATO summer school on, Brussels, 9/67, 24:27435
standardization for international research on neutron and proton irradiation of seeds, 23:50441
standardization of food irradiation facilities, 23:18173 (CONF-681006-, pp 209-12)
standards and units for, 22:43130
standards and units for, review of, 23:16852
standards for environment of work areas, 22:21535
standards for ionizing, 21:41407
standards for radioisotope-labeled pharmaceuticals, 21:45772(R) (ACRH-27)
standards for x rays, gamma rays, and electrons, 22:14861
survey of personnel, for epithermal neutrons, 24:25478 (BNWL-1340)
tables for tissue-implanted platinum-covered gold-198 γ, 23:50529
terminology in, standard definitions of, 25:29518
theories of microscopic, 24:46608 (JAERI-4047)
theory for distributed radionuclide, generalized, 25:24161

  - theory for, general cavity ionization, 24:44482 (EUR-4452, pp 455-78)
  - theory of micro-, 24:25304 (CEA-R-3964)
  - theory of micro-, developments in, 25:8563 (NYO-2740-7, pp 52-110)
  - theory of microdosimetry, Monte Carlo evaluation of hit, 25:38523 (BNWL-1551(Pt.2), pp 80-5)
  - theory of microdosimetry, survey on, 24:44477 (EUR-4452, pp 107-35)
  - theory of, equivalence of LET theory plus straggling theory to, 24:14499
  - theory of, nomenclature and radiation physics for, 25:24157
  - theory of, review of, 23:47855
  - training courses in, for hospital residents in gynecology, 23:41477
  - training program for, 21:28426 (ANL-7291)
  - uncertainty in external, theory for quantitative analysis of, 23:20251
  - units and definitions for micro-, summary of, 24:44487 (EUR-4452, pp 843-53)
  - units for, evaluation of suitability of, in medical diagnosis, 24:7837
  - units used in, review of, 24:27436
  - use for measurement of contamination level, simultaneous, 21:43431
  - use in radiobiology, principles of, 21:45527
  - use of deoxycytidine content of urine in monkeys for γ and x, 24:2655 (LA-4223)
  - use of film and plane densitometer for, in electron beam therapy, 23:6528
  - use of LET spectrometers for, 24:27585 (CONF-690540-, pp 548-75)
  - use of thermoluminescence, for age estimation of ancient ceramics, 23:7860 (CONF-680920-, pp 868-82)

- RADIATION EXPOSURE CHAMBERS
  - accessory equipment for high-pressure oxygen, design of hydraulic-lifting trolley, 21:20307
  - argon-41 production in, of TRIGA reactor, possible control of, 22:51625
  - atmospheres in small-animal, development of surface-barrier detector for monitoring radon in, 24:25256(R) (BNWL-1307(Pt.3))
  - cabinet design for, of rats, 21:16420
  - calibration and loading of cobalt-60, 21:23710 (BNL-994, pp 45-69)
  - description of semi-portable gamma, for small animals, 24:31540
  - design and development of, for transistors, 21:1959(R) (N-66-22820)
  - design and operation of mouse, 23:6254
  - design and use at Mol BR2, 21:14070(R) (EUR-3138.e)
  - design for Bureau of Standards Reactor, 21:8083
  - design for CP-5 reactor, 21:15762 (ANL-7161)
  - design for EBR-II, 21:7856(R) (ANL-7255)
  - design for granular materials, 21:39100(P)
  - design for studying transient x-ray effects on luminescence and respiration in biological materials, 25:6461
  - design of electromagnetic, for studying effects of radio waves on mice and gerbils, 23:47682
  - design of γ, at pool type reactor facility, 25:23360
  - design of immunology incubator with controlled humidity, pH, and temperature, engineering drawings for, 23:19886
  - design of low-temperature neutron, 21:1970 (AD-633307)
  - design of portable, with self-contained radiation source, 23:19926(P)
  - design of radium, for calibration of dosimeters, 24:44324 (BARC-460)
  - design of rotary, for rodents, 23:9754 (NP-17514, pp 63-85)
  - design of shielded, 21:12568(P)
  - design of standard-comparing, for data reproducibility in 14-MeV neutron activation analysis, 21:36455
  - design of tube-type, 22:51156(P)
  - design of, for proton irradiation of small animals, 21:10913
  - design of, for radiography of rats, 21:16420
  - development of large hyperbaric oxygen, for therapy of man, radium, 23:29660
  - development of one-man, for hyperbaric oxygen therapy, 23:41413
  - dosimetry for biological, at thermal reactors, 25:52077
  - gamma dose-rate field in cylindrical, from irradiated reactor fuel elements, (E/T), 21:10136
  - neutron spectra in Northrop, 21:14084 (NSL-64-187-1964)
  - pneumatic systems for 14-MeV neutron, sample-transfer, 21:16253
  - radiation dosimetry in betatron, using phantoms, scattered, 23:2835
  - use in animal studies, evaluation of, 22:52014
  - use of lead cylinder, to immobilize mice, 21:41411
  - windows for fast electron, method for producing 0.0004-in. glass, 21:22075

- RADIATION FILTERS
  - angles of variation during cobalt-60 γ teletherapy, 25:6751
  - box for x-ray, design of automatic balanced, 22:14649
  - characteristics of resonance, for proton-recoil detector calibration, 25:39727
  - description of Ross, for x-ray spectra measurements from flash devices, 24:26174 (AD-699202)
  - design for Debye—Scherrer camera for elimination of alpha and beta background, 25:2508
  - design of aluminum wedge, for use for cobalt-60 teletherapy, 21:8851
  - design of boron-10, for neutron resonance spectrometer, 21:3306
  - design of compensation lenticular, for control of dose distribution during γ therapy, 25:21799
  - design of mechanism for multiple monochromatic, for use with x-ray diffractometer, engineering drawings for, 21:10525
  - design of mechanism for multiple, for use with x-ray diffractometer, engineering drawings for, 21:10527
  - design of scattering-foil, for use with high-energy electrons during therapy, 24:2751
  - effectiveness for dose reduction during x radiography of pelvic region, 25:42447
  - effectiveness of lead glass, for protection of human skin during therapy using cobalt-60, 25:19086
  - effectiveness of lead grid, for control of γ dose for therapy, 25:21695
  - effectiveness of lead screen type, for control of γ dose for therapy, 25:21694
  - effectiveness of lead wedge shaped, for control of γ dose for therapy, 25:21696
  - effectiveness of tin, for protection of human skin during cobalt-60 γ therapy, 25:19082
  - effects of half-value layer of, on diagnostic quality of dental x-ray films, 21:16369
  - effects of sieve, on dose distribution from multifocus source in phantom, 24:34546
  - effects of wedge, on cesium-137 γ dose distribution, 24:32006
  - effects on spectra from radioisotope gamma sources, 25:48756
  - fabrication of balanced x-ray, by rolling, electrolysis, and encapsulation, 22:2400 (ORNL-IIC-10(Vol.1), pp 356-75)
  - fabrication of balanced x-ray, materials for, 22:2400 (ORNL-IIC-10(Vol.1), pp 356-75)
  - feasibility of tissue-equivalent wax, for compensating surface irregularity effects in high energy electron radiotherapy, 25:19066
  - half-value thickness of, automated system for measurement of x-ray, 25:6453
  - neutron transmission through cadmium, for proportional counters, 21:36358
  - neutron transmission through polycrystalline, Monte Carlo study of thermal, 24:40546
  - optical transfer function of lead, for biomedical radiography, 24:7638
  - performance bismuth and silicon single-crystal, for neutrons, 25:20238 (UJV-2488-F)
  - performance in intraoral radiography, 25:23924
  - performance of wedge, for protection of patient during high-energy electron therapy, 22:51694
  - properties of foil, for reducing radiation dose to man during diagnostic radiography, 24:36776
  - properties of gamma, for densimeters, 24:2507
  - protective effects of grid, on tissues of rabbits, 24:6049
  - radiation dose distribution by grid and wedge, use of transistorized lithium-drifted detector for, 23:35746
  - shape of wedge, equation for calculating, 23:26853
  - transmission characteristics of pyrolytic graphite, for fast neutrons, 25:12352
  - use of aluminum, for primary x-ray beams used for diagnostic radiography, patient dose reduction and image quality following, 25:46910
  - use of moving, in telecobalt arc therapy, 21:3428
  - use of wedge, for obtaining proper dose distribution in cobalt teletherapy of kidneys, 21:4817
  - use of wedge-shaped, in cobalt therapy, clinical indications and limitations of, 22:43365
  - use of, containing bromine and chlorine in mercury-quartz lamp for short-wave uv irradiation of tissues, 21:4760
  - use with scintillation counters for measurement of iodine-125 and selenium-75 gamma spectra in single biological samples, 24:14533

- RADIATION MONITORING
    - see also Aerial Surveying
    - see also Air Samplers
    - see also Radiation Protection
  - accuracy in high-energy accelerators, 21:32657 (UCRL-17412)
  - accuracy of personnel, by personal air samplers in uranium laboratories, effects of textile in protective clothing on, 24:29741
  - act relating to, authorized by the State of Illinois, 23:50606
  - activities in Euratom countries, 1965, 21:19767 (EUR-3165.d,f,i,n)
  - advancements in personnel, economic gains from, 25:51121
  - aerial method for, of near-ocean-surface contamination from Wigwam Operation, 24:20924 (AD-481165)
  - alarm system for, circuit design for audio, 22:30911(P)
  - alarm system for, in high radiation levels, 21:6200 (ORNL-TM-1668)
  - analysis of environmental, statistical method for, 24:2663
  - analysis of off-site, during Kiwi TNT testing, 23:4937 (SWRHL-17-r)
  - analysis of off-site, during NRX-A3 testing, 23:4938 (SWRHL-18-r)
  - analysis of off-site, during Phoebus experiment, 23:4939 (SWRHL-19-r)
  - analysis of off-site, during testing Kiwi B4D, 23:4934 (SWRHL-7-r)
  - analysis of off-site, in experiment with Kiwi B4E, 23:4935 (SWRHL-15-r)
  - analysis of off-site, in NRX-A2 experiment, 23:4936 (SWRHL-16-r)
  - analysis of off-site, in Operation Dominic II, 23:4932 (SWRHL-3-r)
  - analysis of off-site, in Operation Storax underground explosions, 23:4933 (SWRHL-4-r)
  - analysis of personnel, external, 23:4966
  - atmospheric, in Thailand, 1961 to 1963, 22:25539
  - book: Environmental Surveillance in the Vicinity of Nuclear Facilities, 25:16154
  - book: Health Physics—Process Control Reference Manual. Volume II, 23:38567 (AD-677370)
  - book: Health Physics—Process Control Reference Manual. Volume 1, 23:38603 (AD-677369)
  - book: Problems of Protection in Industrial Utilization of Radioelements, 25:18996
  - book: Radiological Emergency Operations, Instructor's Manual, 23:29545 (TID-24918)
  - book: Radiological Health Handbook, 25:49203 (PHS-PUBL.-2016)
  - buildings and facilities for environmental, guide for design, operation, and staffing of, 25:10763
  - calibration and use of γ spectrometers in, by public health personnel, recommendations for, 22:40704
  - characterization of aerosols for, in nuclear operations, 23:48061
  - comparison of devices for, in Euratom countries, 23:12121
  - computer programs for accident condition, 23:4288
  - conference on, 23:48051 (STI/PUB-199)
  - conference on environmental, 21:1756
  - conference on environmental, Warsaw, June 17, 1968, 24:25127 (CONF-680664)
  - continuous-sampler spray scrubber for, performance of, 22:1766(R) (IDO-17240)
  - counters for routine, use of whole-body, 21:6503
  - criteria for dose estimation in of populations in Richland, Washington area, 23:33703 (BNWL-1019)
  - criteria for personnel following accidents, 24:7853
  - data from Atomic Energy Commission installations during 1966, 22:40697
  - data from Atomic Energy Commission installations during 1966, 22:40690
  - data from films for personnel, computer programs for analysis of, 22:4483 (CERN-67-28)
  - data from Health and Safety Laboratory fallout, for March to June 1971, 25:46818(R) (HASL-243)
  - data from Japan, 24:31960 (NIRS-RSD-22)
  - data handling in, description of on-line computer, 25:16183
  - data on fission product contents in monthly precipitation in US cities, 1958 to 1967, 22:25530 (HASL-193, pp II.1-30)
  - data on global, 1957 to 1968, 22:25531(R) (HASL-193(App.))
  - description of, for HFR fuel irradiation capsule failure, 23:2073 (RCN-99)
  - design of film badge for, 23:12122
  - detectors for power reactor environment, analysis of optimum locations for, 23:49538
  - detectors for reactor operations, minimum number of, 23:500 (IA-1174)
  - development of environmental, recommendations for, 25:16207
  - developments in, review on, 25:57767
  - directions of viewing of ground-based neutron monitors, (T), 22:13264
  - dose equivalent, in populations surrounding Eurochemic reprocessing plant, 21:12839 (NP-16379)
  - dose measurements to personnel contaminated internally by radioisotopes, use of air samplers in, 21:39398 (LA-DC-8608)
  - dose rate measurements near Sandia Pulsed Reactor 2 during steady state operation, 23:19532
  - effectiveness in nuclear medicine, 25:46853
  - environmental, at Brookhaven National Laboratory, 1965, 22:40258 (BNL-50093)
  - environmental, at Feed Materials Production Center, Fernald, Ohio, July to Dec. 1968, 24:2429
  - environmental, at Fort Belvoir, Virginia, Jan. 1, 1968 to Dec. 31, 1968, 23:31430(R) (AD-684330)
  - environmental, at Goodyear Atomic Corporation, 22:18966(R) (GAT-553)
  - environmental, at Juelich Nuclear Research Center, 1966, 22:2193(R) (JUL-485-ST)
  - environmental, at MH-1A Nuclear Power Plant, Canal Zone, Oct. to Dec. 1968, 23:40874 (AD-682732)
  - environmental, at National Reactor Testing Station, Idaho Falls, Idaho, Jan. to July 1968, 24:2429
  - environmental, at NRX-A5 reactor testing site, 23:9942 (SWRHL-32-r)
  - environmental, at Soviet Union nuclear power plants, 23:40969(T) (JPRS-48229)
  - environmental, α activity correction factors for use in, 22:18974
  - environmental, equipment and methods for, 22:2244
  - environmental, in Alaska and Aleutian Island Chain following Project Longshot nuclear explosion, 23:13896 (SWRHL-6-r)
  - environmental, in Croatia, 1960 to 1968, 24:325
  - environmental, in Denmark, 1967, 23:9571 (RISO-180)
  - environmental, in Euratom countries during 1967, 23:49951 (EUR-4246)
  - environmental, in Moscow area, 1958 to 1967, 23:17571(T) (AEC-tr-7030, pp 65-74)
  - environmental, in Romania, 1941 to 1965, 23:24321
  - environmental, in vicinity of Canadian reactors, 23:4749 (NP-17653)
  - environmental, in vicinity of Canadian reactors, 23:4747 (NP-17498)
  - environmental, near Ames Research Reactor, 1962 to 1968, 23:31431 (IS-2025)
  - environmental, near General Electric Company, Neutron Devices Department, St. Petersburg, Fla., Jan. through June 1968, 24:31508
  - environmental, near Paris, France, (E), 24:320
  - environmental, of Ashford, N. Y. fuel reprocessing plant, 1965 through 1967, 24:2322
  - environmental, of Denmark, Jan. through June 1968, 23:21822 (FFR-403/68)
  - environmental, of Halden reactor surroundings following operation with failed fuel assemblies, 23:52381 (HPR-108)
  - environmental, of Ispra Establishment, 1964 to 1968, 24:4379
  - environmental, of Ispra Establishment, 1967, 23:13870 (EUR-4088)
  - environmental, of Ispra ground-level atmosphere, 1961 through 1965, 23:11661
  - environmental, of Karlsruhe Nuclear Research Center following release of radioactive material to atmosphere, 23:29007 (KFK-930)

environmental, of Mound Laboratory area, January through June 1968, 22:45183 (MLM-1522)
environmental, of Mound Laboratory area, July through Dec. 1968, 23:21823(R) (MLM-1619)
environmental, of nuclear facilities, July to Dec. 1966, 23:4751
environmental, of nuclear installations, 22:18973
environmental, of off-site area following Jan. 1965 Kiwi TNT experiment, 23:11656 (SWRHL-17-r)
environmental, of Piketon, Ohio gaseous diffusion plant area, Jan. through June 1968, 23:434 (GAT-574)
environmental, of Tonopah Test Range of Nevada Test Site, Jan. and June 1966, 23:24309 (NVO-162-28)
environmental, of US nuclear installations, Jan. through June 1967, 23:26372
environmental, of Vandenberg Air Force Base environs following aborted launch of Nimbus-B/SNAP-19, 23:13872 (SWRHL-50-r)
environmental, requirements for U. S. nuclear power plants, 24:45900 (CONF-700810-4)
equipment and method for airborne, of United States and Puerto Rico, 24:27229
equipment and method for in-situ seabed, development of gamma, 25:57586
equipment and method for waste water, 23:47784
equipment and method for, of solvent extraction plant, 22:4304 (EUR-3612)
equipment and methods at Bandung Reactor Center, 23:48059
equipment and methods at NINA 5-GeV electron synchrotron, 23:30852 (DNPL/P-6)
equipment and methods at Oak Ridge Y-12 plant, automatic, 25:39710 (Y-DD-98)
equipment and methods at ORNL, development of, 24:7631 (ORNL-4459, pp 23-31)
equipment and methods at plutonium fuel fabrication laboratory, 23:48060
equipment and methods at Thai Office of Atomic Energy for Peace, 23:48063
equipment and methods at Trombay fuel reprocessing plant, 23:48067
equipment and methods for, 25:51907
equipment and methods for aerial, near Beatty Waste Dump in Amargosa Desert, Nevada, 24:46354 (EGG-1183-1481)
equipment and methods for aerial, of environs of US nuclear facilities from 1960 to 1970, development of, 25:39600
equipment and methods for atmospheric, 23:38119
equipment and methods for creek and river, at ORNL, 21:34428 (ORNL-TM-1832)
equipment and methods for East Tennessee area air and water, 21:45249 (ORNL-4146, pp 2-35)
equipment and methods for environmental, 23:48068
equipment and methods for environmental, in USSR, development of, 25:32080
equipment and methods for environmental, of Bikini Atoll, April to May 1967, 23:6217 (HASL-190)
equipment and methods for gaseous radioactive waste, at La Hague Center, 23:29136
equipment and methods for Kyoto University research reactor facilities, 23:15965 (KURRI-TR-1)
equipment and methods for low-level aerial, near Minneapolis-St. Paul area, relations with areal geology, 24:16701 (CEX-61.7.1)
equipment and methods for off-site, of underground nuclear explosions and reactor experiments, July through Dec. 1964, 23:15975 (SWRHL-22-r)
equipment and methods for personnel, in Germany, 23:47774
equipment and methods for Project Sedan off-site, 23:7654 (PNE-200-F)
equipment and methods for reactor, 23:50130
equipment and methods for second Project Rulison Event, 24:48199 (NVO-294-4)
equipment and methods for workshops and laboratories, 23:38241(T) (AERE-Trans-1104)
equipment and methods for, handbook on, 23:50567(T) (AD-685997)
equipment and methods for, of air in industrial radiochemical plant, 24:31565
equipment and methods for, of Juelich hot cell environment and personnel, selection criteria for, 24:31654
equipment and methods for, of personnel during decontamination of AERE hot cells, 24:31564
equipment and methods in the Philippines, 23:48072
equipment and procedures at Livermore laboratory for handling promethium-147, 23:14162 (UCRL-71357)
equipment and procedures for tritium detection and assay, review of, 23:7640 (TID-24635)
equipment and procedures for, of contaminated aircraft and aircraft personnel, British code for, 21:39401 (NP-16887)
equipment and procedures for, of effluent from power reactors, 21:6164 (BNWL-251)
equipment and procedures for, of liquid wastes discharged to ground at Hanford, 21:24185 (ISO-SA-32)
equipment and procedures for, of waste water and exhaust air, 22:4288
equipment design for alpha particles in air, 21:36395
equipment design for α or β-γ, engineering drawings for, 21:32427
equipment design for beta, gamma, and neutron, 22:8358
equipment design for laboratory, 21:28445 (SZS-14/66)
equipment design for, at ORNL fission products development laboratory, 22:31062 (ORNL-TM-2149)
equipment design for, of gases from reactor stacks, 21:8799 (ORNL-TM-1569)
equipment development for helium reactor coolant, 21:25624(R) (GA-7595)
equipment for aerial, development of, 23:41130 (IDO-12071, pp 14-17)
equipment for aerial, use of helicopter, 23:20189 (CONF-680507-, pp 207-11)
equipment for aerosol effluent, at GTR, 21:35726
equipment for AGS, design of magnet enclosure beam spill and personnel monitoring, 21:38121
equipment for alpha, during separation of transplutonium elements, 21:34517 (ORNL-4091, pp 22-35)
equipment for alpha, of hands and feet, 21:16136 (DP-1080)
equipment for alpha-active aerosols, 21:26167
equipment for alpha-emitting particulates in radioactive-gas disposal stacks, development of, 25:23772 (ORNL-TM-3165)
equipment for automatic surveillance of nuclear power plants, 25:60120
equipment for automatic, of reactors, 25:46652(P)
equipment for beta and gamma personnel, design and operation of background-compensated, 21:26153 (SC-TM-67-268)
equipment for clinical, exhibition of, in Grenoble in 1968, 24:25527
equipment for continuous measurement of atmospheric precipitation, design of, 23:660(P)
equipment for continuous measurement of water, design of immersible, 23:662(P)
equipment for determining radon content in atmosphere, 21:26264 (ANL-7220, pp 60-3)
equipment for EBR-II fuel, design of, 21:21755(R) (ANL-7302)
equipment for environmental, description of data handling, 25:16182
equipment for fallout and natural, in German atmosphere, 21:45252
equipment for fission-product-removal containment system, description of detector-actuated inert gas, 23:2141(P)
equipment for gamma, at HFIR, 21:34519 (ORNL-4091, pp 49-67)
equipment for ground-level, in Nevada Test Site atmosphere, development and operation of air sampling, 25:8393 (NVO-410-6)
equipment for hands and shoes, design of large area air proportional alpha detector, 24:2463
equipment for in vivo, development of computer-based scintillation detection, 22:12575 (Y-1595)
equipment for intense gamma, design of portable, 22:21306 (AECL-3023)
equipment for Juelich Nuclear Research Plant, description of, 22:51241
equipment for laboratory air, γ, 22:45557
equipment for laboratory and environmental, description of, 24:488
equipment for laminar flow clean rooms, 23:40940
equipment for natural γ, in Germany, 21:15993 (BMwF-FBK-66-42)
equipment for packaged radioisotopes during shipment, 22:45567
equipment for personnel protection, survey of, 22:23270
equipment for personnel, design and operation of semi-automatic, 24:31551
equipment for personnel, failures of, 24:36764 (JUL-603-ST, pp 153-6)
equipment for personnel, for radiation accidents, 23:47772
equipment for radiation protection during nuclear testing, 25:44586 (SWRHL-501-r)
equipment for radioactive gas, from stack disposal at ORNL, 21:34428 (ORNL-TM-1832)
equipment for remote, of materials in hot cells, 24:31655
equipment for shelter, design and performance of remote-reading ionization chamber, 21:17819(R) (ORNL-TM-1768)
equipment for solar-radiation, for early detection of solar flares, 24:4943 (N-69-36434)
equipment for stratospheric, study of recirculation in air sampler, 23:17819 (HASL-194)
equipment for, at Hanford Production Reactors, 23:13984 (DUN-SA-76)
equipment for, at JAERI, maintenance of, 23:17748 (JAERI-5017, pp 77-82)
equipment for, at Thorium—Uranium Recycle Facility, 23:19937 (ORNL-TM-2464)
equipment for, at Tohoku Univ. electron linear accelerator, 22:32420
equipment for, design and performance of count-rate transient detection, 23:38242 (ANL-7470)
equipment for, design of mobile, 22:21309 (CEA-R-3324)
equipment for, design of telescopic probe, 22:47325(P)
equipment for, development at CEA, 22:23276
equipment for, development of, 23:16092 (ORNL-4335, pp 25-33)
equipment for, in Thorium—Uranium Recycle Facility, 23:21940 (ORNL-TM-2463)
equipment for, of shoes, 23:14015
equipment for, output pulses from beta, gamma, and neutron radiation detectors, 21:17925
equipment for, performance of Kyoto Univ. research reactor, 22:6586
equipment for, review of problems with, 24:38397
equipment for, selection and data interpretation criteria for, 23:9694 (BNWL-SA-2128)
equipment for, survey of development of, 23:7733 (EEMTIC-67-3-1)
equipment for, survey of dosimetry, 23:47857
equipment for, test procedures for evaluation of, 25:51849 (AD-871790)
equipment operation and maintenance at ORNL, 21:34519 (ORNL-4091, pp 49-67)
equipment standards for criticality accident, ANS, 22:6591
equipment, methods, and results for GASBUGGY, description of, 24:484 (NVO-294-1)
equipment, methods, and results for off-site environmental, following Buggy I Event, 25:15786 (PNE-327)
evaluation at site of Trinity Operation 20 years after nuclear explosion, 21:36576 (LA-3719)
evaluation of film badges for personnel, 23:48069
evaluation of programs for bioassay sampling in, probabilistic method for, 22:51634
exit monitors on doorpost for, in reactor area, 22:43300 (AERE-PR/HPM-12)
fallout, in man in Japan during 1967, 23:18026 (JAERI-5017, pp 149-53)
fallout, of atmosphere, food, milk, and water, 23:12084
fallout, of atmosphere, ground, and seawater near nuclear facilities in Japan, 23:18027 (JAERI-5017, pp 154-62)
formulas for, of uranium in personnel, 22:51563 (CEA-R-3361)
fuel element failure detection by HBWR gas sampling, 23:19504(R) (HPR-104)
gamma spectroscopy in emergency, 25:16184
gamma-ray field variations in atmosphere, measurement of, 23:6224
handbook on, 25:37824 (LA-4400)
instrument design for, 21:320
instrument design for gamma, G-M, 21:3325
instrumentation for Beznau Power Reactor Unit 1, 23:21424
instrumentation for environmental and personnel, evaluation of, 24:25488
instrumentation for environmental, following accidents involving nuclear power stations, 24:50947 (SZS-9/70)
instrumentation for environmental, following reactor accidents, 25:39273 (JAERI-1193)
instrumentation for, review of basic, 23:33385 (CEA-CONF-1263)
instruments for Mutsu nuclear ship, performance of, (E), 24:4119
iodine-131, of air and personnel at production plant, 23:14180
legal aspects of, in Illinois, 21:6536
legislation of State of Illinois on employer responsibility, 24:19327
legislation requiring, in Illinois, 24:46621 (NP-18343)
levels in MSRE during March to August 1968, 23:21501 (ORNL-4344, pp 1-52)
manual for, of nuclear facilities by public health agencies, 21:20176 (NP-16616)
measurement of Gundremmingen Power Reactor during May 1968, 23:52275(R) (TID-25216)
measurement of Gundremmingen Power Reactor during July 1968, 23:52277(R) (TID-25218)
measurement of Gundremmingen Power Reactor during June 1968, 23:52276(R) (TID-25217)
measurement of Gundremmingen Power Reactor during August 1968, 23:52278(R) (TID-25219)
measurement of Gundremmingen Power Reactor during October 1968, 23:52280(R) (TID-25221)
measurement of Gundremmingen Power Reactor during February 1968, 23:52272(R) (TID-25213)
measurement of Gundremmingen Power Reactor during December 1968, 23:52282(R) (TID-25223)
measurement of Gundremmingen Power Reactor during April 1968, 23:52274(R) (TID-25215)
measurement of Gundremmingen Power Reactor during March 1968, 23:52273(R) (TID-25214)
measurement of Rheinsberg Power Reactor, γ and neutron, 24:20476(T) (ORNL-tr-2289)
measurements at ISPRA during 1965 and 1966, 22:16706 (EUR-3884)
measurements for Aspara Reactor operations during 1957 to 1964, 23:15677 (NP-17764)
measurements for field, laboratory, and personnel at Atomic Energy Research Institute, Kinki University, Japan, 23:41326
measurements for Garigliano Power Reactor during January to March 1969, 23:47138(R) (TID-25187)
measurements for Garigliano Power Reactor during March 1967 to February 1968, 23:15552(R) (EUR-4089)
measurements for Kyoto University Research Reactor during 1965, safety log, 23:26088 (KURRI-TR-11)
measurements for Peach Bottom Power Reactor Unit 1 during January 1969, 23:19445(R) (TID-24960)
measurements in Gundremmingen Power Reactor during 1967, 23:19398(T) (AEC-tr-7033)
method and results for houses in Warsaw, Poland, 23:50531
method for aerial, for locating impacted Athena missile containing cobalt-57 sources, 25:44543 (EGG-1183-1508)
method for β, from γ levels, 23:4941
method for environmental beta, in atmosphere and precipitation at Los Alamos, N. Mex., 1969, 24:29391 (LA-4388)
method for exhaust stack, 22:49346
method for Karlsruhe Research Center hot cell air, 22:51142
method for laboratories using open sources, use of radioactivity measurements on paper wrapping from photographic film as, 22:21522
method for terrestrial γ, relation with time, 22:2243
method for terrestrial, use of car-mounted scintillation counter in, 21:10456
method of hair, using strontium content, 23:14211
methods and equipment at JPDR during June 1968, 23:18025 (JAERI-5017, pp 94-106)
methods and equipment for clinical, NCRP report on, 22:23506 (NP-17328)
methods and equipment for personnel beta and gamma, 23:22098 (AHSB(RP)R-89)
methods and equipment for sampling air-borne radioactive particles, 22:19012
methods and techniques for large-scale atmospheric, 21:25999 (Y-KB-78)
methods and techniques for, in veterinary medicine, 21:3449
methods and uses in U. S, 22:4309 (TID-24102)
methods at ORNL during 1966, 21:45621 (ORNL-4146, pp 56-62)
methods at ORNL during 1966, 21:45623 (ORNL-4146, pp 73-7)

methods during use of industrial radiography equipment, γ, 22:45578
methods following research reactor accidents, 24:7858
methods following rupture of sealed radium sources, 24:7834
methods for accidents, physical, 24:7862
methods for aerial, for terrestrial component, 22:2241
methods for aerial, in ARMS I program, 22:2240
methods for aerial, in ARMS program, 22:2239
methods for air in uranium mines, 22:45561
methods for airborne, 22:2232
methods for atmosphere and ground areas following accidents, 24:7860
methods for atmosphere and water, 22:45563
methods for atmosphere in uranium mines, 22:21539
methods for atmosphere in vicinity of nuclear fuel processing plants, 22:51567(R) (IN-1205)
methods for atmospheric, at high altitudes in Austria, 1967 to 1969, 24:20904
methods for atmospheric, at Pt. Barrow, Alaska, Richland, Wash., and Rio de Janeiro, Brazil, 1968, 23:49944 (BNWL-1051(Pt.2), pp 85-91)
methods for atmospheric, over western hemisphere, 1959 to 1960, 22:25528 (HASL-193, pp I.208-16)
methods for boilers during testing with γ radiometric pressure gages, 22:45579
methods for Bombay surface air, 1961 to 1965, 21:43063
methods for Brazilian foods and waters, 22:2217
methods for β, from Soviet weapons tests, Sept. 1961, 21:45256
methods for carbon-14, in personnel, review of, 21:26458
methods for control of occupational exposure, 23:4803 (BNWL-SA-2108)
methods for control of occupational exposure, 25:16135 (NP-18514)
methods for Danish air and precipitation, 1966, 21:41021 (NP-17016)
methods for dental offices during diagnostic radiography, 24:9831
methods for dental x-ray equipment using Surpak, 23:35725 (MORP-68-11(Rev.))
methods for dietary contamination, 21:43418
methods for environmental contamination by atmospheric disposal from nuclear establishments in United Kingdom, review of, 24:7847
methods for environmental, around nuclear facilities, 22:25858
methods for environmental, at atomic energy facilities, 25:15790
methods for environmental, at atomic energy facilities, 25:15789
methods for environmental, at CEA in Belgium, routine and emergency, 24:7842
methods for environmental, at JAERI, Tokai, Japan during 1969, 25:13119 (JAERI-Memo-4175)
methods for environmental, at nuclear power plants, survey of, 25:16157
methods for environmental, at Project Milrow, 24:23215 (NVO-294-3)
methods for environmental, at Zeran nuclear research center, 24:23179 (INR-1114)
methods for environmental, in Australia from French weapons tests in Polynesia, June to July 1967, 22:14592
methods for environmental, in Berlin, 21:41025
methods for environmental, in emergency situations, 24:7843
methods for environmental, in EURATOM countries, 21:24449
methods for environmental, near Miamisburg, Ohio, 1966, 21:22041(R) (MLM-1391)
methods for environs of Phoebus rocket reactor test, 23:43751 (SWRHL-45-r)
methods for factory personnel exposed to ionizing radiation, 21:22467
methods for fallout, 22:8529(T) (JPRS-42929, pp 293-330)
methods for fish contaminated with cesium-137 and strontium-90, 23:12126
methods for foods and beverages, 23:2832
methods for gages and industrial radiography equipment, γ, 22:45576
methods for gaseous and liquid reactor effluents, environmental, tank, and pipeline, 21:36322 (BNWL-251(Rev.))
methods for gaseous effluents from reactors, 23:33381 (AAEW-M-891)
methods for German atmosphere, following third Chinese nuclear explosion, 22:18975
methods for ground water, 22:23185 (HNS-1229-43)
methods for Hanford ground waters, 21:36323 (BNWL-432)
methods for high-altitude commercial aircraft, 21:36590
methods for human hands, α and β, 22:45562
methods for human populations, using mobile whole-body counters, 24:7855
methods for iodine-131 in air of laboratory, direct and indirect, 22:21431
methods for Japanese nuclear power plant environs, 25:51745 (A/CONF.49/P-253)
methods for large areas, use of corundum thermoluminescent dosimeters for γ, 24:7861
methods for laser personnel, review of, 21:22415
methods for nuclear energy installations following accidents, 25:8661 (JAERI-4052)
methods for offsite, near Amchitka Island, Alaska during Oct. and Nov. 1965, 24:33794
methods for offsite, near Nevada Test Site during July through Dec. 1965, 24:33794
methods for personnel, 21:36610
methods for personnel and buildings following radiation accidents, 24:7909
methods for personnel in radioisotope laboratories, 23:26816
methods for personnel of nuclear power reactors following accidents, 24:7908
methods for plutonium laboratory, 22:36268
methods for plutonium laboratory, 24:25364 (BNWL-1221, pp 1.1-47)
methods for Project Sterling off-site, 23:481 (AD-669844)
methods for Project Sulky off-site, 23:4756 (PNE-715-F)
methods for radioactive aerosols in breathing zones and work areas, 22:21537
methods for radioactive aerosols in breathing zones of personnel, 22:21536
methods for radioactive aerosols in work areas, 22:21538
methods for radiological personnel in Finland, 23:29504 (SFL-A-11)
methods for rapid, of lower atmosphere, 22:42882
methods for reactor environment, 23:48036
methods for sealed source radiometric thickness gages, 22:45559
methods for sealed sources for use in industry, 22:45577
methods for seawater following waste disposal, 23:50466
methods for stack disposal from nuclear installations in United Kingdom, limitations of, 24:7846
methods for tritium-labeled water vapor in air at Chalk River, 22:14999 (AECL-2699)
methods for unplanned releases of radioactive materials following underground nuclear tests, 22:497 (UCRL-70608)
methods for unsealed sources, 22:12862
methods for uranium mining personnel, using whole-body counters, 23:29495 (BARC-389)
methods for waters at Sasebo, Japan after port-call of submarine Plunger, Jan. 1969, 23:43415
methods for waters at Yokosuka, Japan after port-call of submarine Flasher, April 1969, 24:11710
methods for waters at Yokosuka, Japan after port-call of submarine Haddock, Feb. 1969, 23:43416
methods for waters at Yokosuka, Japan after port-call of submarine Plunger, Jan. 1969, 23:43417
methods for work areas following criticality accidents, 24:7904
methods for, NCRP recommendations for, 25:34894
methods for, of plutonium facilities, 21:8801 (RFP-795)
methods for, review of, 23:465
methods in industrial processing plants, 25:23869
methods in radioactive luminescent materials industry, 23:20243
methods in reactor buildings using air sampling, NaI scintillation survey meters, and swipe tests, 23:29506(R) (THAI.-AEC-21)
methods in space flight, 23:4961
methods of, of water supply in post nuclear attack period, 21:12841 (NP-16470)
methods required during production and use of radioisotopes, 24:20956
methods used at Electrical Communication Laboratory in Japan, 22:36276
methods used at JAERI during April 1965 to April 1966, 21:36575(R) (JAERI-5015)
methods used at Thule, Greenland following crash of nuclear weapon-carrying bomber, 24:36543
methods used in Egypt for environmental and personnel, 25:52089 (A/CONF.49/P-142)
methods used in personnel, following accidents with sealed sources, 21:26467
model using wind persistence, development of plume, 23:22312
objectives of environmental, around nuclear power plants, panel discussion on, 25:16158
off-site, Project Gasbuggy program for, 23:40878 (PNE-G-46)
operations at Princeton—Pennsylvania accelerator, 23:17026 (PPAD-654-E)
organization and operation of surveys for, in army divisions, 21:41178(R) (AD-645617)
performance of computers for clinical, 24:50903
performance of continuous air monitor for α, 23:14170
performance of immersible γ spectrometer for, of waste solutions, 22:45564
performance of UHTREX stack and annunciator panel, 22:53416(R) (LA-4009)
personnel at Lawrence Radiation Laboratory, development of advanced radiation safety training course for, 24:25497 (UCRL-50789)
personnel training for radiological, design of simulated radiation detectors for, 21:3414(P)
personnel training program for, 21:28426 (ANL-7291)
personnel, at CERN accelerators, 23:14181
personnel, in German Democratic Republic, 1963 to 1965, results from, 21:28492·
personnel, in Poland, evaluation of statistics of, 23:12113
polices for operation of Tokai reactor, survey of, 23:37455
preparations for high-altitude, 23:459(R) (N-68-15503)
principles for industrial, 25:42460
principles of environmental, in installations handling radioactive materials, 21:1763
principles of, review of, 24:29743 (DMRE-69-3, pp 5-59)
problems in nuclear installations, 22:21532
procedures at Los Alamos hot cell facility, 23:16285 (LA-4074)
procedures for Dresden Power Reactor Unit 1 site, 24:26708 (BRH/DER-70-1)
procedures for nuclear power plant environs, 22:2230
procedures for nuclear power plants in India, 25:53982 (A/CONF.49/P-536)
procedures for off-site, for launch of SNAP-19, 23:20218 (NP-17805)
procedures for personnel in Bavaria, 23:22310
procedures for rocket reactor ground tests, 25:31642
procedures for waste disposal site environs, IAEA recommendations on, 22:12562 (STI/PUB-170)
procedures for, in hospital areas, 21:1761
procedures in medical facilities using sealed or unsealed radiation sources, 21:30823
program at Ames Laboratory during January to June 1970, results of environmental, 24:50898 (IS-2393)
program at Ames Laboratory, Jan. 1967 to July 1967, 21:39050(R) (IS-1647)
program at Atomics International in California, 23:29507(R) (TID-25018)
program at Goodyear Atomic Corporation during 1967, 22:49323(R) (GAT-R-430)
program at Hanford for, 22:16705 (BNWL-SA-1452-A)
program at LASL plutonium facility, 23:16286 (LA-4076)
program at Lawrence Radiation Laboratory following accidental tritium release to environment, results of, 25:46869 (UCRL-51029)
program at ORNL for Clinch and Tennessee Rivers, 21:22117 (ORNL-4035)
program at Research Reactor Institute of Kyoto University during 1968, 25:4508 (KURRI-TR-63)
program at uranium processing plant to determine uranium-235 lung burden of personnel, in vivo, 23:29499 (GAT-R-444)
program development for nuclear fuel reprocessing plants in USA, 25:21686 (CONF-700816-(Vol.2), pp 832-6)
program for environmental nuclear power plant, design of graded, 25:16166
program for environmental surveillance near EUROCHEMIC in Belgium, criteria for, 24:7821
program for environmental, around nuclear power plant, design and performance of, 25:16161
program for environmental, at Ames Laboratory, results of 1970, 25:34743 (IS-2541)
program for environmental, following reactor accident, 24:7844
program for environmental, of radioactve waste discharge in U.K., results of, 25:16173
program for fallout, in waters of East Germany, 1961 to 1968, 24:27221 (SZS-19/69)
program for industries in Great Britain, 22:45554
program for Ispra environs, development of, 25:29222
program for medical radium sources, 23:41331 (PHS-999-RH-34)
program for nuclear power plant site, 25:28626
program for nuclear power plant site, 25:28625
program for nuclear powered ships in Sasebo Harbor Japan, government sponsored, 23:41323
program for personnel, at Karlsruhe Nuclear Center, 24:23023 (NP-18058)
program for radiation accidents in Germany, role of Nuclear Emergency Assistance Team in, 24:7884
program for radioactive waste disposal into aquatic environment, development of adequate, 24:7848
program for reactor and laboratory at JPDR, 23:18021 (JAERI-5017, pp 25-59)
program for Vela Sterling Event, 23:8005 (VUF-1038)
program for western hemisphere, activities of Radiation Alert Network, April 1969, 24:2321
program for, at Hanford Works, Richland, Wash, 21:8790 (BNWL-316)
program for, of professionally and medically exposed persons residing in East Germany, 21:1746 (SZS-9/66)
program in Ceylon, film badge service, 23:48071
program in France, 22:21533
program in New Jersey, evaluation of, 25:16209 (CONF-691129-1)
program in New Zealand, national film badge service, 23:48070
program in Polish radioisotope facilities, 21:20165 (CLOR-58/D)
program of Commonwealth X Ray and Radium Laboratory, 1969 annual report of, 24:31985(R) (NP-18121)
program of fallout, in United States, 22:40661(R) (HASL-197)
program of North Carolina Board of Health, 22:51603
program of Public Health Service, routine fallout, 23:12079
program of Radiation Protection Center in German Democratic Republic, 23:29539 (SZS-20/68)
program of self-instruction on, 22:10540 (HW-SA-3671)
program of Southwestern Radiological Health Laboratory at Nevada Test Site during 1967, 24:25486 (SWRHL-47-r)
program off-site at Nevada Test Site during January through June 1966, 24:23140 (SWRHL-37-r)
programs at Atomic Energy Research Inst., Tokyo, during 1969 and 1970, 25:8673 (JAERI-Memo-4098)
programs at Atomic Energy Research Institute of Japan, 24:21185(R) (JAERI-5021)
programs at Atomic Energy Research Institute, Japan, 25:52066 (A/CONF.49/P-824)
programs at Battelle-Northwest, 24:39508 (BNWL-MA-7)
programs at BNWL during 1968, 24:50872 (BNWL-1341)
programs at BNWL during 1968, 25:521 (BNWL-1341(App.))
programs at CRNL during 1970, 24:48391(R) (AECL-3611)
programs at HIFAR reactor during 1960 through 1970, 25:52065 (A/CONF.49/P-800)
programs at JAERI during 1969 and 1970, results of routine area, environmental, and personnel, 25:8693(R) (JAERI-5025)
programs at Juelich Reactor and Karlsruhe Nuclear Research Centers, Germany, 25:52061 (A/CONF.49/P-395)
programs at Karlsruhe Nuclear Research Center, 25:2570(R) (KFK-1158)
programs at Mound Laboratory, Miamisburg, Ohio during July through December 1969, 24:23133(R) (MLM-1616)
programs at New South Wales University during 1968, duties of personnel in, 24:44518(R) (NP-18286)
programs at nuclear installations, objectives of, 22:43322

programs at Oarai Research Establishment of Japan during 1968 to 1969, 24:25483 (JAERI-5024)
programs at Savannah River Laboratory, Aiken, S.C., during 1970, 25:24151 (DPST-71-30-1)
programs at Swierk Center for Nuclear Research, Poland, during 1958 to 1968, 25:6698 (INR-1185)
programs for accidents in France, 24:7851
programs for coastal and surface waters of British Isles, 22:16728 (FRL-1)
programs for discharge of radioactive waste into aquatic environment in United Kingdom, application of, to hazard assessment, 24:7841
programs for drinking, ground, and surface waters in USA during 1968 through 1970, 25:52057
programs for emergency environmental, criteria for, 25:16171
programs for environment at NRTS, 25:509 (IDO-12073, pp 37-42)
programs for environment at Quad-Cities nuclear power plant, 24:48556
programs for environment of Ames Research Laboratory during 1969, 24:21149 (IS-2260)
programs for environment of nuclear facilities, 22:19348
programs for environmental nuclear power plant, summary of information regarding, 25:16160
programs for environmental nuclear site, economics of preoperational, 25:16165
programs for environmental surveillance during nuclear detonation for Project Rulison, 24:14483 (SWRHL-94-r)
programs for environmental, around nuclear facilities, comparison of absolute contribution, graded, and threshold approaches to development of, 25:16162
programs for environmental, around nuclear power plants, comparison of recommendations of FAO, IAEA, ICRP, and WHO regarding, 25:16159
programs for environmental, at Brookhaven National Laboratory during 1969, 25:4503 (BNL-50196)
programs for environmental, at ISPRA, during 1968, 24:23194 (EUR-4412)
programs for environmental, at nuclear facilities, design and operation of, 25:46816 (BNWL-SA-3786)
programs for environmental, at nuclear research center, Pelindaba, South Africa during 1968, 24:23195 (PEL-192)
programs for environmental, at Project Rulison detonation site in relation to bioenvironmental safety aspects, post-detonation gross α and β, 24:23131 (BMI-171-201)
programs for environmental, in environs of Hanford during 1969, 25:16075 (BNWL-1505(App.))
programs for environmental, in Euratom countries, 24:25144
programs for environmental, in Germany, fallout, 24:23134(R) (NP-18122)
programs for environmental, in Germany, fallout, 24:23135 (NP-18122, pp 6-104)
programs for environmental, in New Jersey, methods and objectives of, 25:16169
programs for environmental, in western hemisphere, 24:20893 (WASH-1148)
programs for environmental, near nuclear facilities, use of radionuclide effluent release data for planning, 25:16175
programs for environmetal, near nuclear facilities, criticisms and recommendations for, 25:16167
programs for environs of nuclear power plants, expansion of federal, 24:44514
programs for industry and medicine, in Thailand during 1968, 24:23216(R) (RPS-AR-2)
programs for natural waters used for radioactive waste disposal, 25:16185
programs for nuclear personnel exposed to airborne plutonium particulates, routine environmental and individual, 24:44519
programs for nuclear power plants, 25:23210
programs for nuclear-based operations, guide for administrative responsibilities in planning and implementing, 24:12102
programs for off-site land and water surveillance near nuclear installations, criteria for development of environmental, 24:7849
programs for off-site surveys, review of problems in, 23:48064
programs for off-site, following Milrow Event underground explosion, 24:39507 (SWRHL-95-r)
programs for personnel during industrial radiography, γ, 23:43791
programs for personnel, at NRTS, 25:522 (IDO-12073, pp 12-17)
programs for radioactive wastes, at atomic energy establishments in United Kingdom, 25:16128 (AHSB(RP)R-105)
programs for radiochemical processing plants, 25:42410
programs for, in Canada, Mexico, and USA, 21:6495 (TID-23286)
programs for, of personnel at nuclear power facilities, 21:22435
programs in Canada for environmental, 25:16156
programs in Czechoslovakia during 1966 and 1967, 25:52063 (A/CONF.49/P-550)
programs in environmental and reactor surveillance, conference on dosimetry methods for, 23:45758
programs in Hungary, 23:29483
programs in New Zealand during 1969, 25:8675(R) (NP-18529)
programs in public health, in New York, 22:51601
programs in U.K. for environmental, near nuclear facilities, objectives of, 25:16155
programs in U.S. for nuclear power plants and radiochemical processing plants, 25:39182 (A/CONF.49/P-87)
programs in United Kingdom for control of environmental radioactivity levels from radioactive waste disposal from nuclear power plants, 24:48527 (CONF-700810-10)
programs in USA, 24:34183 (CONF-690335, pp 26-33)
programs, accuracy required in, 23:48064
radiation monitoring in Euratom countries of, 24:25127 (CONF-680664)
radioactivity, in surface air at selected world sites during 1963 to 1969, gross γ, 23:48043 (HASL-214(App.))
recommendations for work area, ICRP, 22:21531
recommendations for work areas and personnel, ICRP, 25:42474
regulations for, in Hungary, 21:3406
regulations in medical and nuclear installations, 21:45640
requirements for boiling power reactors, 24:45991
requirements for radioactive effluents from nuclear power plants, guide for, 25:15335 (NF-67-8)
requirements in on-load refueling program for U.K. power reactors, 23:13530
research at Chalk River Nuclear Laboratory on methods in, in relation to environmental problems, 24:39450(R) (AECL-3451)
research at Institute of Nuclear Research at Rez, 22:43327
research at JAERI during 1969 and 1970, progress report on environmental, 25:8693(R) (JAERI-5025)
research on instrumentation and techniques for, summaries of AEC sponsored, 24:46593 (TID-4065)
research program for atmospheric, in Federal Republic of East Germany, 24:2323
research programs of AEC during 1970 on, 25:44293 (TID-25728)
results for nuclear personnel, 23:6467
results in Japan during 1965 to 1968, 23:6437 (NIRS-18)
review of x-ray equipment, 24:17048
role of radiation safety officer in, 23:22309
routine on-site and personnel, at CRNL during 1969, results of, 24:39425(R) (AECL-3565)
safety procedures for port-call in Japan of USS Swordfish, 23:13569
sampler—monitor for reactor containment structures, 24:25169
sampling stations for surface water, in US, 24:2310
sampling system for LOFT, description of continuous, 23:19512(R) (IDO-17266)
site of DIORIT reactor, measurement of stack released argon-41 for, 24:29045 (CONF-690540-, pp 87-96)
spectrometric method for, of natural background γ radiation in Poland, 22:6445
standard guide for administrative practices in, USA, 25:57714
stations for ground-level, effects of fission product activity on spacing of, 22:25547
statistics of private, state, and federal organizations in USA, comparison of agreement of, 24:34193
system design for emergency, at research establishments, 21:26411 (JAERI-1119)
system design for environmental, at nuclear installations, 21:28467
system design for environs, objectives of, 22:19327 (BNWL-SA-1601)
system development for LACBWR in-core, use of neutron fluxes in, 23:4194
system for development and performance of automatic remote, 21:8573(R) (AD-634040)
system for, design of fixed, 22:10539 (DUN-SA-49)
system for, design of fixed telemetry, 22:8337 (DUN-SA-50)
system for, installation and testing of automatic remote, 21:41060(R) (AD-647350)
system for, testing of automatic remote, 21:20175 (NP-16601)
systems at ORNL, description of, 22:21315 (ORNL-4219, pp 36-46)
tables for Army Reactors (SM-1) during January 1968 to December 1968, 23:45117(R) (AD-685818)
techniques for measurement of released iodine 131 following reactor accidents, 23:34912
tritium measurement in air in presence of γ radiation, 23:13531
uncertainty in external, theory for quantitative analysis of, 23:20251
use of blood cell counts in, 21:16360
use of critical pathway to establish dose for, in Great Britain, 23:50545
use of iodine-131 content of goat thyroid in, 23:8011
Radiation Phantoms
    see Phantoms
RADIATION PROTECTION
    (General aspects of the problem concerning personnel.)
    see also Health Physics
    see also Protective Clothing
    see also Protective Ointments
    see also Radiation Monitoring
    see also Radioprotective Compounds
    see also Remote-Control Equipment
    see also Shelters
    see also Shielding
  accident procedures for HFR personnel, description of fuel irradiation capsule failure, 23:2073 (RCN-99)
  activities at ORNL during 1966, 21:45621 (ORNL-4146, pp 56-62)
  activities of federal and state governments, review of, 23:22293
  analysis for astronauts during space flight, implications of biosatellite program for, 22:31078
  analysis for beta sources used in radiotherapy having associated unwanted radiation, 23:20257
  analysis for laser personnel, 23:14174
  analysis for neutron uses in radiotherapy, 25:13450
  assessment methods for reactor site and operation, review of, 25:41461
  attitudes of nuclear personnel toward, psychological, 23:22282 (EUR-4198)
  bases for quantitative, development of, 25:27042
  bibliographies on, 22:2512
  bibliography of literature on, in Soviet radiobiology, 23:5030 (AD-671436)
  bibliography of Soviet literature on, 22:4637
  bibliography on, 24:21178 (AED-C-12-21)
  bibliography on, 21:40568 (ORNL-NSIC-36)
  bibliography on legal aspects of, in medicine, 23:38611 (PHS-999-RH-37)
  bibliography on nuclear safety, indexed, 23:23943 (ORNL-NSIC-60)
  bill presented by federal government of Austria, 23:38612
  book: Applied Radiation Protection and Control, 25:41370
  book: Applied Radiation Protection and Control. Vol. 1, 25:39872
  book: Bases of Nuclear Medicine, 23:6606
  book: Basic Norms for Health Protection of the Population and Industrial Personnel Against Hazards of Ionizing Radiation, 23:6454
  book: Basic Physics for Dosimetry and Radiation Protection, 25:46846
  book: Basic Radiation Protection. Principles and Organization, 24:25470
  book: Code of Practice against Radiation Hazards, 22:4628
  book: Course on Radiation Protection in Industry, 23:840
  book: Dangerous Properties of Industrial Materials, 24:2675
  book: Dosimetry and Protection Against Ionizing Radiation, 25:42425
  book: Handbook of Radioactive Nuclides, 24:50917
  Book: Handbook on Radiation Protection, 22:10779
  book: Health Physics. Principles of Radiation Protection, 21:20228
  book: Health Physics—Process Control Reference Manual. Volume III, 23:38604 (AD-677371)
  book: Individual Protection for Personnel Handling Radioactive Substances, 21:32677
  book: Legal Considerations on Ionizing Radiation, 21:6534
  book: Means of Individual Protection for Work with Radioactive Materials, 22:40731
  book: Medical Radiation Physics, 25:16275
  book: Nuclear Interactions in Space Ship Protection (in Russian), 23:20976
  book: Principles of Nuclear Medicine, 22:49411
  book: Principles of Radiation Protection, 22:10778
  book: Principles of Radiological Health, 23:33691
  book: Problems in Cosmic Biology, Vol. 7, 22:47538
  book: Problems in Dosimetry and Radiation Protection, in Russian, 25:32390
  book: Problems of Distribution and Experimental Evaluation of Permissible Levels of Cesium-137, Strontium-90, and Ruthenium-106, 23:4902
  book: Problems of Dosimetry and Radioprotection, 23:50455
  book: Problems of Protection from Ionizing Radiations in Radiation Chemistry, 25:42448
  book: Problems of Space Biology, Vol. IX; Outlines of Space Radiobiology, 25:21918
  book: Protection Against and Repair of Radiation Injuries, 22:25930
  book: Protection Against Ionizing Radiation, 21:28507
  book: Protection Against Ionizing Radiation : A Manual, 22:40730
  book: Protection Against Neutron Radiation up to 30 Million Electron Volts, 22:45570
  book: Protection in the Environment of Radiological Workers, 21:8824
  book: Radiation Medicine, 25:11091
  book: Radiation Physics in Radiology, 21:39362
  book: Radiation Protection in Medical Research and Practice, 24:34373
  book: Radiation Protection of Organisms, 25:21741
  book: Radiation Protection Techniques. Part III. Handling Radiation Sources (In German), 23:2546
  book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
  book: Radiological Emergency Operations-Student's Manual, 23:41338 (TID-24919)
  book: Radiological Health Handbook, 25:49203 (PHS-PUBL.-2016)
  book: Radiological Health Program Guide, 21:34677
  book: Radiological Protection in Universities, 22:25856
  book: Radioprotection, 24:9834
  book: Recommendations of the International Commission on Radiological Protection on Handling and Disposal of Radioactive Materials in Hospitals and Medical Research Establishments, 21:30823
  book: Reports on Radiation Protection, 23:4972
  book: Studies in Space Radiobiology, 23:50916
  book: Survival and the Bomb: Methods of Civil Defense, 23:38131
  book: The Care of Radiation Casualties, 22:31135
  book: The Physics of Radiology, 24:46646
  book: The Technical Applications of Radioactivity, Vol. I, 21:28175
  book: Tritium Oxides, 23:4881
  Canadian programs for, April 1967, 21:39051 (NP-16878)
  Canadian programs for, May 1967, 21:39053 (NP-16971)
  chart for nuclear personnel, development and evaluation of uniform, 25:46872
  civil responsibility in, legal derivative of, 24:735
  code for children in schools, 25:42489
  code for medical personnel using sealed radiation sources for therapy, 25:42492
  code for personnel servicing contaminated aircraft in Britain, 21:39401 (NP-16887)
  code for, during sealed gamma source industrial radiography, 25:42490
  code for, during sealed source radiotherapy, 25:42491
  code of practice for personnel engaged in milling and mining of radioactive minerals, 24:12096 (STI/PUB-151)
  code of practice for, in Japan Atomic Energy Research Institute, 23:20236

code of practice for, of man and medical personnel, 22:25845
code of practice for, of personnel in research and teaching, 23:2830
codes of practice of ICRP for, during handling of sealed β and γ sources and high-energy x rays, ICRP, 23:31811
computer programs for construction techniques in, 22:4381 (ABS-THH-1034)
conference on, 22:36250 (CONF-660815)
conference on, 23:12127
conference on, 23:14164
conference on, 23:48051 (STI/PUB-199)
conference on methods for low-energy x, during manufacture, repair, and operation of electronic equipment, 25:39871 (EUR-4640)
conference on methods for, following nuclear explosions, 23:20178 (CONF-680507)
conference on methods related to uses of transuranium elements, 25:37814 (EUR-4612)
conference on nuclear medicine and, Seci, Czechoslovakia, Sept. 14 to 18, 1970, 25:24408
conference on personnel, in nuclear industry, 21:34652 (DCROF-(2)-79)
conference on problems related to release of radioactive materials, 24:27593 (CONF-690540)
conference on, in accelerator environments, 23:52065
conference on, Japanese Radiological Society, 23:35820
conference on, proceedings of First International, 23:12128
control and safety in radiochemical laboratories, 23:9307 (ORNL-4343, pp 94-7)
control procedures for Tokai-Mura Power Reactor, description of inspection and operation, 23:9104
cost factors for, 22:490 (CONF-660649)
criteria for handling and production of transplutonium elements, 24:31597
criteria for personnel in fabrication of recycled plutonium reactor fuel, 23:14173
criteria for personnel testing x-ray materials, 24:29757
data processing by computer, method used at Saclay-C.E.N. for, 24:6051
data processing equipment in, 21:14646
design criteria for, in nuclear facilities, 23:26412
design of facilities for, of medical personnel during gold-198 therapy of edema, 22:6813
design of telescopic antidiffusion device for, of man during dental radiography, 23:48073
development of codes, regulations, and standards for, history of, 25:39873
development of institute for, of man in Sweden, 22:40728
development of new concepts and standards for, by I.C.R.P, 22:23524
development of procedures for, in Peoples Democratic Republic of Germany, 23:33730
development of standards for, against microwaves, 23:38597 (UR-49-1080)
developments in, 25:18870
developments in U.S.S.R. since 1900, review of, 23:9931(T) (JPRS-44356, pp 65-75)
developments in, at Tunisian CEA 1966-1967, 22:14875(R) (NP-17229)
developments in, history of, 25:26774
developments in, survey of literature on, 23:31796 (SZS-17/68)
developments in, survey of literature on, 23:35757(T) (ORNL-tr-2152)
developments since 1963, review of, 23:20180 (CONF-680507-, pp 32-5)
device design for personnel, 21:12566(P)
devices and techniques for, in accident surgery, 21:6525
devices for eyes during cesium-137 teletherapy, 23:2889
devices for nursing personnel during gynecological application of radium, development of γ, 23:50562
dose-equivalent rates for Hungary WWR-SM, measurement of thermal, intermediate, and fast neutron and γ, 23:21523
dosimetry for, relation of, to RBE, 22:38318
dosimetry for, using standard man concept, 21:10905
dosimetry methods for safe reactor operation, book on, 22:32801
dosimetry methods for use in, neutron dose equivalent rate, 24:50902
economic analysis for, in uranium mining, 23:26809 (RMC-UR-42)
economic aspects of, for industry, 22:45585
economics of, in planning facilities for telegamma radiotherapy, 21:19818
effectiveness of programs for, in nuclear industry, 22:19335
effectiveness of standard passenger buses for, of man, cobalt-60 γ, 24:12094
effectiveness on nuclear submarines, 21:22454
electron energy spectra from 20, 30, and $39m_0c^2$ beams, calculations, 24:1468 (NYO-910-131)
equipment and methods for, 25:51907
equipment and methods for electron microscopes, 23:50225
equipment and methods for Japanese reactor fuel fabrication plants, 24:10145(R) (PNCT-AR-68)
equipment and methods for reactor, 23:50130
equipment and methods for reactor personnel, evaluation of, from analysis of criticality and reactor accidents, 23:831
equipment and methods for waste management from Hungarian radioisotope production plant, 24:31651
equipment and methods for, of personnel during decontamination of AERE hot cells, 24:31564
equipment and methods for, of podiatrists during diagnosis, recommendations for, 25:26777
equipment and methods for, of Trombay, India, hot laboratory personnel, 24:31653
equipment and programs for laser personnel, 24:21196
equipment and programs for laser personnel, conference on, 24:21193
equipment design for, of human infants during diagnosis, 22:19014
equipment development for, in hot laboratories, 22:12489
equipment for hot cell personnel, design specifications for, 24:31550
equipment for hot cell personnel, effect of physiological factors on design of, 24:31552
equipment for medical personnel handling indium-113m and technetium-99m, design of, 25:26776
equipment for personnel, during light and heavy-duty operations in radioactive environments, development of mobile, 25:51753 (A/CONF.49/P-617)
equipment for personnel, in radiation environments, 22:47275(P)
equipment for personnel, survey of monitoring, 22:23270 .
equipment for telecobalt therapy, 23:14203
equipment for uranium mining personnel, respiratory, 23:14215
equipment for waste disposal, safety hazards of prefabricated emergency incinerator system for, 23:21924 (CONF-680821-, pp 362-7)
equipment for, at health clinics using radon waters, 21:12944
evaluation for control point area buildings at Nevada Test Site, (E), 25:6514 (CEX-69.5)
evaluation in Plowshare program, 23:29534 (BNWL-SA-2360)
evaluation of NCRP Report No. 29 Exposure to Radiation In An Emergency, 23:20205 (CONF-680507-, pp 494-516)
evaluation of specific activity concept for, of man against environmental contamination, 22:10750
facilities at Radioisotope Laboratory of Hiroshima University, 22:49354
facilities for hospitals in Germany, design of, 23:26815
facility for, of personnel handling hazardous materials,, 21:16341 (SCL-DC-67-5)
fallout shelters for, design of above-ground, 25:42034(T) (JPRS-53498)
fallout, Federal guides and standards for, 22:51599
federal standards for, of environs and personnel near nuclear power plants, 22:2230
free radical inhibitors in, function of, 21:26501
fundamentals of, handbook of basic, 23:20214 (HMI-B-78)
gamma dose rates for, calculations using discrete-ordinates code ANISN, 23:36771
guide for hood ventilation, 23:16307
guide for human, following inhalation of plutonium, 23:45773
guide for laser personnel, 24:39510 (NP-18246)
guidelines for medical personnel handling radioisotopes, 24:41896
guidelines in relation to benefits and risks to human populations, 24:23385 (CONF-690501-, pp 731-5)
guides for Federal Radiation Council, hearings before subcommittee of congressional Joint Committee on Atomic Energy on, 23:842
guides for general and occupational exposure of man, 24:50934
hazard evaluation of various internal and external sources after local fallout, 23:20196 (CONF-680507-, pp 376-83)
hazards from coolant fission products and radioisotopes during normal operation of LMFBR, analysis of, (E/T), 23:13520 (AI-AEC-12721, pp 83-109)
hazards from lead shielding, to patients during therapy, 25:13460
hazards to public from nuclear power plants, methods for assessment of, 23:52300
industrial hygiene programs in U.S.A, 24:7881
laboratory design for, of personnel from laser beams, 21:12860
laboratory for, summary of operations of mobile, in Czechoslovakia, 22:51590
laboratory training manual in, 24:50928 (TID-25375)
law concerning responsibility for, Austrian, 22:16156 (NP-17218)
lectures on, 23:24431 (TUBIK-9)
legal and safety requirements for, in handling radioisotopes, 22:2315
legal aspects in European countries, 22:490 (CONF-660649)
legal aspects of international, in nuclear accidents, 25:52100 (A/CONF.49/P-400)
legal aspects of personnel, in EURATOM countries, 21:41392 (NP-16789)
legal aspects of, from electronic equipment, 23:22313
legal aspects of, future trends in, 24:7918
legal aspects of, hearings before Senate Committee on Commerce on S.2067 for radiation from electronic products, 23:4952
legal aspects of, in France, 24:20957
legal aspects of, in industry, 21:18059
legal aspects of, in Italy, 23:43797
legal aspects of, in Italy, 22:40729
legal aspects of, mining personnel, hearings before subcommittee of Congress Joint Committee on Atomic Energy on, 22:51668
legal aspects of, of Public Law 90-602 relevant to safety standards for electronic equipment, 24:34185 (CONF-690335, pp 57-71)
legal regulations for, in medicine, 22:51638
legislation and recommendations for employment of women in atomic energy industries, 22:45591
legislation for industrial personnel, 22:38283
legislation for manufacture, testing, and use of sealed radiation sources in East Germany, 23:29554 (SZS-11/67, pp 40-6)
legislation for personnel, 22:36271
legislation for use of radioisotopes in industry or medicine in Japan, 24:32020
legislation for, in medicine, 25:16208 (BRH/ORO-70-8)
legislation for, in New Zealand, 23:50547 (NP-18025)
legislation for, review of development of, 24:9848
legislation in Belgium, 22:40673
legislation in East Germany, 23:29553 (SZS-11/67, pp 23-39)
legislation in East Germany, 23:29551 (SZS-11/67)
legislation in EURATOM countries, 22:45588
legislation in France, conflict of, to nuclear liability and insurance laws, 24:4639
legislation in New York for x, 22:40726
legislation in USA relevant to patient, during diagnostic radiography, 25:46879
legislation in USA relevant to patient, during diagnostic radiography, 25:46909
legislation relevant to patient, during diagnostic radiography, 25:46878
manual for medical personnel on, 21:16335 (CMN-Pub-4/65(Vol.1))
manual for personnel in industry, part 1 of International Labor Office (1960), 25:42458
manual for personnel in industry, part 2 of International Labor Office (1959), 25:42459
manual for personnel in industry, part 3 of International Labor Office (1963), 25:42460
manual for personnel in industry, part 4 of International Labor Office (1964), 25:42461
manual for personnel in industry, part 5 of International Labor Office (1964), 25:42462
manual for personnel in industry, part 6 of International Labor Office (1968), 25:42463
manuals for, at Nuclear Medicine Center, University of Sao Paulo, 21:12832 (CMN-Pub-4/65(Vol.2))
materials and equipment for, of laboratory personnel against laser radiation, 21:10883
measurements associated with, construction of mobile laboratory for, 23:20188 (CONF-680507-, pp 202-6)
measures for CERN personnel, 24:23220
measures for high energy beams, 21:8875
measures for in United Kingdom, Government White Paper on, 24:12101
measures for man, review of, 23:50549 (PHS-999-RH-33, pp 62-71)
measures for medical personnel and patients, review on, 25:44819
measures for medical personnel using x-ray equipment, 25:44821
measures for occupational, in basic metal industries, 24:726
measures for patients and personnel in nuclear medicine, architectural and organizational, 25:35151
measures for personnel operating accelerators, 23:826
measures for shipping radioactive materials, IAEA definition of competent authority role in, 22:28039
measures for Swiss population following a theoretical nuclear weapons explosion, 24:21197 (FMB-69-7)
measures for, conference on, 23:50452 (PHS-999-RH-33)
measures used for, in Commonwealth X-Ray and Radium Laboratory, Australia, 21:14359(R) (NP-16386)
mechanisms for biological, evaluation of, 25:21741
mechanisms of cellular and molecular, ionizing, 25:4535
method for control of scattering during dental radiography, 23:45766
method for medical personnel during interstitial implantation of labeled microspheres in tumors of man, 22:38380
method for personnel, during calibration of monitoring films, 21:20221
method for personnel, using mobile electrostatic precipitators for airborne particles, 23:14206
methods against fallout, evaluation of emergency, 22:51657
methods and equipment for, in Quehanna Cell 4 Process, 21:32292 (MND-3062-24)
methods and materials for, outline of, for use in medical laboratory, 21:26449
methods and standards for, of personnel during operation of lasers, 21:22421
methods and warning systems for radiography personnel, 24:31632
methods associated with B-52 accident in Greenland, 23:20182 (CONF-680507-, pp 39-45)
methods at Eurochmic Plant in Belgium, 23:9957
methods at Idaho Nuclear Corporation, safeguard review committee for, 22:19329 (IN-1041)
methods at medical electron accelerators, operational, 23:52073
methods at plutonium production centers, 22:49342
methods during complex regional telecobalt radiotherapy, development of focalized boundary, 25:32429
methods during contact γ radiotherapy of gynecological neoplasms, 25:8688 (SZS-6/70)
methods during space flight, review of, 22:38474
methods during use of tritium, 22:43328
methods employed in podiatry, survey of x, 22:31101
methods for accelerator accidents, analysis of possible, 23:845
methods for astronauts during space flight, 23:29851
methods for astronauts during space flight, evaluation of, 22:21589
methods for astronauts, biological and physical, 25:46857
methods for chemical, after nuclear explosions, 23:20197 (CONF-680507-, pp 387-92)
methods for color television manufacturers and viewers, x, 24:32022
methods for contamination following reactor accident, 23:12108
methods for control of environmental radioactivity around nuclear power plants, 25:13471
methods for crew and passengers on ships during transport of radioactive materials, 24:34358
methods for cyclotron personnel, 25:26775
methods for dental and medical diagnostic procedures, x, 23:16329
methods for dental radiography, 23:45765
methods for dental radiography, 23:45769
methods for dental radiography, 22:10807

methods for dental radiography in New Zealand, survey of, 22:40683
methods for dental radiography, review of, 23:45764
methods for dental radiography, x, 22:45525
methods for dentists using x-ray equipment, 24:27708
methods for emergency, associated with civil defense, 23:20206 (CONF-680507-, pp 517-37)
methods for environmental and installation, at linear accelerators, 25:53407 (CEA-CONF-1766)
methods for environmental exposure of man, 22:45531
methods for environments, review of, 25:2571
methods for eye, in personnel, 23:16331
methods for factory personnel exposed to ionizing radiation, 21:22467
methods for fire fighters following nuclear accidents, 25:35149
methods for French radiochemical processing plant for cesium-137 separation, 22:2263 (EUR-3611)
methods for ground-based strategic nuclear weapons systems, 22:4392
methods for handling crash of aircraft containing iodine-131, 22:28470
methods for handling radioactive foils in gas chromatography detectors, 24:12065
methods for high-energy accelerator personnel, 23:52102
methods for hospital personnel in nuclear medicine, 25:35150
methods for hospitals and medical practice, review of, 24:12059
methods for human patients during diagnostic radiography, 24:19324
methods for human population in postattack environment, 24:733
methods for human population in postattack environment, 22:10795
methods for human populations following contamination of environment, 24:34191
methods for human populations in fallout and nuclear attack areas, review of, 23:6457
methods for IAEA radioactive materials shipping, 22:28040
methods for industrial and medical personnel, 23:6463
methods for industrial handling of radiation sources and radioisotopes, 22:45572
methods for industrial personnel handling radioisotopes, 25:13467
methods for industrial personnel performing radiography, 22:45581
methods for industrial personnel using γ radiography, 24:34357
methods for industries and laboratories, 22:490 (CONF-660649)
methods for industry, 23:43798
methods for industry, conference on, 23:22329
methods for intestine during therapy, use of epinephrine infusion administered by percutaneous arterial catheter for, 23:50750
methods for iodine-131 therapy using 20 to 100 mCi doses, 23:26858
methods for laboratory and industrial personnel, 22:23527
methods for laboratory, during double isotope determination of aldosterone, 24:31970
methods for laser, 23:50560
methods for laser personnel, 23:35917
methods for laser personnel, review of, 21:22415
methods for laser personnel, review of, 24:25499
methods for legally safe radiographic facilities, 24:36466
methods for man, 23:45741
methods for man and personnel during dental radiography, x, 22:45551
methods for man during diagnosis and therapy, x, 22:51659
methods for man during habitation of outer space, 22:33916
methods for man during medical radiography, 24:723
methods for man during use of radiopharmaceuticals in clinical studies, ICRP report on, 25:52096
methods for man, during dental radiography, 24:6047
methods for man, microwave, 22:49597
methods for man, military evaluation of nuclear, 22:25861(T) (JPRS-39391)
methods for manned space flight, 24:12091(T) (ORNL-tr-2253)
methods for Marine Products Development Irradiator personnel, 22:210(R) (TID-24016)
methods for medical diagnosis in Australia, 23:45767
methods for medical personnel, 24:23190
methods for medical personnel and patients during use of radioisotopes for diagnosis and therapy, 23:50557
methods for medical personnel and patients during interstitial iridium-192 and radium therapy for cancer of mouth, 22:49364
methods for medical personnel during gynecological therapy, 24:23217
methods for medical personnel during handling of yttrium-90 sources, 24:2818
methods for medical personnel during preparation and application of γ emitters for interstitial therapy, 25:8689 (SZS-6/70 (pp 19-27))
methods for medical personnel during prolonged radiography of patients, 22:49328
methods for medical personnel during radiodiagnosis and radiotherapy, 22:23573
methods for medical personnel during surgery involving radiography, 22:4620
methods for medical personnel during therapy of oral neoplasms, x, 22:51978
methods for medical personnel during use of gold-198, 22:45582
methods for medical personnel during use of laser radiation, 22:28594
methods for medical personnel handling remote controlled x-ray equipment, 24:34525
methods for medical personnel handling short-lived radioisotopes, conference on, 25:26762
methods for medical personnel inserting radium implants, 22:546
methods for medicine, 22:25929
methods for microwave personnel, 23:26811
methods for microwave personnel, 22:554(R) (UR-49-810)
methods for military personnel in trenches following detonation of tactical nuclear weapons, 23:31799 (FMB-68-8)
methods for mining personnel, 22:25963
methods for mining personnel in Czechoslovakia, 24:44612
methods for nonionizing radiations, 24:32258
methods for nuclear explosions, 23:31883
methods for nuclear medicine laboratories, 24:21181
methods for nuclear medicine patients and nuclear industry personnel, conference on, 25:35130
methods for operating personnel and population near pressurized-water reactor power plant in Japan, 25:54980
methods for operator and patient, during dental radiography, 25:42484
methods for optimal, during handling of sources, 23:16303
methods for outpatients by reducing dose during radiodiagnosis, 25:19009
methods for outpatients following iodine-131 therapy for thyroid carcinomas, 25:13596
methods for patients and personnel during dental radiography, 24:34372
methods for patients and personnel during dental radiography, 23:26805
methods for patients and personnel during dental radiography, 23:38599
methods for patients and personnel during diagnostic x radiography, 25:52092
methods for patients and personnel during radioisotope scanning, 23:50727
methods for patients and personnel in vicinity of implanted iridium-192 source, 25:42477
methods for patients during cobalt-60 γ therapy, 25:26779
methods for patients during dental diagnosis, 24:46616
methods for pediatric medicine, 22:51607
methods for personnel, 25:4524
methods for personnel at Fontenay-aux-Roses radiometallurgy laboratories, 24:20934 (CEA-CONF-1422)
methods for personnel during fallout removal from livestock farm, 24:6055
methods for personnel during handling and processing of plutonium, 22:4621
methods for personnel during medical diagnosis, 24:34360
methods for personnel during radiography of small animals, 23:26812
methods for personnel during strontium-89 administration to cats by drenching, 24:41735 (BRH/DBE-70-1, pp 39-58)
methods for personnel exposed to air contaminated by lasers, 23:22295
methods for personnel in electromagnetic fields, 24:27595
methods for personnel in industrial radiography, γ, 22:45576
methods for personnel in industry and medicine, ionizing, 23:38609
methods for personnel in industry and medicine, use of radium substitutes for, 21:28487
methods for personnel in laboratories and workshops, 23:45720(T) (AERE-Trans-1105)
methods for personnel in nuclear industry in France, 23:50564
methods for personnel in radiochemical laboratories, 22:45587
methods for personnel in radioisotope laboratories, 25:46859
methods for personnel in relation to risk of exposure, 25:4523
methods for personnel in universities, 24:34375
methods for personnel of nuclear installations, conference on, 23:29536 (EUR-3740)
methods for personnel of plutonium chemical plant, 23:50552 (RFP-1254)
methods for personnel of plutonium laboratory, 22:36268
methods for personnel operating decontamination facility using abrasive cleaning methods, 21:24401 (BNL-10076)
methods for personnel operating lasers as a microsurgical tool, review of, 21:24651
methods for personnel using γ sources for industrial radiography, 22:45580
methods for personnel using industrial radiographic equipment, γ, 22:45578
methods for personnel using lasers, 23:29542
methods for personnel using lasers, 23:29822 (CISE-117)
methods for personnel using neutron radiometric gages in oil well logging, 22:28489
methods for personnel, at Project Milrow, 24:23215 (NVO-294-3)
methods for personnel, during fabrication of plutonium, 24:23540(T) (JAPFNR-6)
methods for personnel, in relation to skin injuries from lasers, 23:29864
methods for personnel, in strontium-90 and yttrium-90 therapy of human hemangiomas, β and γ, 23:835
methods for personnel, in tritium-contaminated atmospheres, survey of, 23:7727 (CEA-Bib-131)
methods for personnel, of radioisotope users in Italy, 24:20959
methods for personnel, review of laser, 24:14615
methods for population in United States, 23:45776
methods for populations, conference on, 24:48572 (CEA-CONF-1561)
methods for power reactor normal and accident operations, analysis of, 23:11130
methods for power reactor personnel during cleanup of fuel loading accident, 25:39178
methods for power reactor personnel during fuel loading accident cleanup and cooling system repairs, 25:39176
methods for power reactor personnel during repair of cooling system, 25:39177
methods for pregnant medical personnel using radiological equipment, 22:25841
methods for protecting population against radioactivity in commercially available industrial products, 25:29320
methods for protection from inhalation of tritium, 23:7738(T) (WAPD-Trans-102)
methods for radioactive lightning rods, 24:21179
methods for radioactive materials, IAEA package design for use in, 22:28043
methods for radiobiology laboratories, 21:32792
methods for radiography of chest of human children, review of x, 24:6048
methods for radioisotope laboratories, 25:46858
methods for reactor accidents, 23:829
methods for reactor personnel handling radioisotopes, 24:36747 (JUL-603-ST, pp 157-74)
methods for reactor personnel handling radioisotopes, 24:36763 (JUL-603-ST)
methods for shipping of low specific activity materials, IAEA regulations on, 22:28045
methods for shipping of radioactive materials, IAEA regulations on, 22:28046
methods for shipping of radioactive materials, regulations of International Air Transport Association on, 22:28047
methods for society, 22:42876
methods for space flight, 24:27596
methods for space flight personnel, proposals of Soviet Union for, 22:25831(T) (JPRS-42635, pp 1-6)
methods for space-flight, 21:10198(T) (N-66-20195)
methods for steel pickling personnel, against lip injuries, uv, 23:29848
methods for therapy, 23:31788
methods for uranium mining personnel, review of, 24:32026
methods for use in industrial medicine, review of, 22:49371
methods for use of microwaves, 23:29541
methods for use of ports and approaches by nuclear powered merchant vessels, manual on, 24:7864 (STI/PUB-206)
methods for use of sealed and unsealed radiation sources, 23:43788
methods for very high frequency radar, 23:29865
methods for veterinary personnel during diagnosis and therapy of horses, 23:41334
methods for veterinary personnel during radiography of large animals, 24:34505
methods for, at the Idaho Chemical Processing Plant, 21:6112
methods for, developed at the institute for Water-, Air-, and Soil Hygiene in Germany, 25:21678 (NP-18631, pp 122-35)
methods for, during manned space flight, 21:11040
methods for, during medical diagnosis, programmed training in, 25:19010
methods for, during nuclear war, review of, 21:24503
methods for, during space flight, review of, 21:12855
methods for, evaluation of, 21:8929
methods for, following accidental contamination of pastures, 25:18943
methods for, following accidents, 23:31794 (CONF-690317-4)
methods for, following nuclear explosions, 23:20186 (CONF-680507-, pp 170-4)
methods for, in dental practice, review of, 21:12876
methods for, in dentistry, 21:8822
methods for, in radioisotope facilities of general hospitals, 21:10892
methods for, of industrial and laboratory personnel against lasers, 21:10888
methods for, of personnel using lasers, 21:10887
methods for, review of, 21:16351
methods for, used in nuclear medicine laboratory, 21:4801
methods in accelerator operation, 23:29538(T) (ORNL-tr-2056)
methods in dental radiography, review of, 24:2676
methods in French industry, 23:38204
methods in production of radiopharmaceuticals, 24:50929
methods in public health programs in Florida, 23:24674
methods in public health programs of New York, 22:51601
methods in radiography in pediatric cases, x, 24:4634
methods in radiotherapy areas of hospitals, radon-222, 23:18035
methods in Soviet Union during past 50 years, review of, 22:4638
methods in Soviet Union, review of development of, 23:14158(T) (TT-67-51409/4, pp 215-21)
methods in space flight, 23:4961
methods in use at ORNL for, summary of, 21:40619
methods in use of radioisotopes in biochemistry and organic chemistry, 21:45066
methods involved with instruments bearing luminous materials, 23:4949
methods of, during atomic warfare, 21:12890
methods of, during nuclear catastrophes, 21:12852
methods of, for radiological patients and personnel, 21:4802
methods of, for radiologists, review of, 21:8948
methods of, for use on farms, 21:10886
methods of, in use of radioisotopes, 21:12346
methods testing for personnel, 24:4637
methods to control hazards of mercury-203-labeled chlormerodrin, 23:14204
methods used after Palomares accident, 23:20181 (CONF-680507-, pp 36-8)

methods used at Electrical Communication Laboratory in Japan, 22:36276
methods used at Karlsruhe during fabrication of plutonium—uranium fuel elements, 23:8129 (EUR-3663)
methods used during building and use of nuclear power plants, 23:6464
methods used following fallout from three high-altitude nuclear explosions, 23:20198 (CONF-680507-, pp 398-418)
monitoring and alarm system for, 21:6200 (ORNL-TM-1668)
monitoring for, general principles of, 25:42474
monitoring principles for personnel, ICRP committee report on, 23:18030
ordinance of Federal Republic of Germany, commentary on, 23:6455
organization at AECL, 21:22405 (AECL-1027(4th Ed.))
organization at Chinon reactor, 23:12116
overall requirements for power reactor, 22:53321
parameters of, 21:4799
personnel exposure histories, 21:30131(R) (EUR-3462.i)
personnel training for maximum credible accident in Gundremmingen Power Reactor, 24:28936 (CONF-690540-, pp 261-72)
personnel, problems in demolition of contaminated chemical processing plants, 21:14652
personnel, problems with power reactor, 23:19451
planning accident, recommendations for, 25:16207
planning for accidents, 23:830
planning for accidents in nuclear fuel storage buildings, 24:12095 (LFEN-101-b)
planning for accidents, guide for, 24:9836 (STI/PUB-227)
planning for accidents, in Yugoslavia, 24:7900
planning for personnel in event of accidents, 24:7892
planning for personnel in event of reactor accidents, 24:7903
planning for potential power reactor accidents in United Kingdom, 24:7876
planning for power reactor accidents, 24:7891
planning for radiation accidents at AERE, Harwell, 24:7889
planning for SNAP-27 at Kennedy Space Center, 24:4633 (N-69-34910)
planning for, of personnel of radiotherapy facility, 21:16403
planning in industry and research, review of, 23:836
practice in radiography, review of need for, 24:2822
practices in nuclear medicine laboratories, 22:49377 (CONF-660839)
practices in nuclear-based operations, guide for administrative responsibilities in planning and implementing, 24:12102
principles and regulations of, in national and international organizations, 25:24191
principles for medical use of radioactive materials, 21:30821
principles of industrial, 23:16308
principles of medical, radiobiological basis for, 21:18158
principles of, collection of papers on, 21:32485(T) (AEC-tr-6719)
principles of, of populations around installations handling radioactive materials, 21:1763
problems associated with nuclear accidents or nuclear warfare, 24:50947 (SZS-9/70)
problems associated with nuclear power plants, 23:43507
problems associated with nuclear reactor operation, 23:43509
problems associated with worldwide uses of radioisotopes as power and radiation sources, 25:39652
problems from release of radioactive effluents from power reactors, 25:10162
problems in genetic, in man, 25:42325
problems in health physics, conference on, 23:43790
problems in industry, review of, 24:31956
problems in maintenance of fuel reprocessing plant at Trombay, 24:31661
problems in medicine, review of isotope, 23:14202
problems in relation to radioisotope implant therapy in man, 23:45743
problems in space flight, cosmic, 23:4967
problems in use of radioisotope-labeled drugs, 23:14190
problems in, in space nuclear plant use, 21:4404
problems of industrial and medical personnel, review of, 22:45583
problems of uranium mining personnel, 23:18121
problems of, review of, 21:18155
procedures and equipment for, of patients and personnel during medical exposures, 21:393
procedures at Italian nuclear power plants, 25:53973 (A/CONF.49/P-191)
procedures development for, 21:12954
procedures evaluation for radiometric devices available to public, 25:19015
procedures for man, 21:22528
procedures for personnel and population at radioactive materials handling facilities, 25:13461
procedures for rescue in radiation accidents, 22:45504 (BNWL-SA-1937)
procedures for transport of radioactive liquid waste in railroad tank cars, 23:16281 (BNWL-966)
procedures for TRU maintenance shutdown, 21:39077 (ORNL-P-3229)
procedures for, at tritium production plant, 21:20168 (DPSPU-65-30-31)
procedures for, during handling and disposal of radioactive materials in hospitals, 21:1761
procedures for, use accident analysis for, 23:824
procedures used during reconstruction of FRJ-1 Merlin, 23:28556 (JUL-555-RE)
program at EURATOM-ITAL during 1969, 24:39587(R) (NP-18287)
program at Goodyear Atomic Corporation during 1968, 23:45772 (GAT-R-517)
program at Japan Atomic Energy Research Institute, 22:4603(R) (JAERI-5016)
program at Karlsruhe, 25:37823(R) (KFK-1365)
program at National Reactor Testing Station in Idaho Falls, use of whole-body counting in, 21:26432
program at National Tsing Hua University, Taiwan, China, 22:51581
program for atomic energy personnel in Canada, 23:50569 (PHS-999-RH-33, pp 87-96)
program for body burden assay of carbon-14, radium-226, tritium, and uranium-235, 23:26810
program for clinical and research facilities, 22:49330
program for facilities repairing radium luminous dial instruments, 25:32435
program for human population, role of World Health Organization in development of, 23:48074
program for nuclear power station, medical, 23:18031
program for personnel using laser radiation, 23:50604
program for personnel, laser, 22:492 (LA-3731)
program for radiation accidents in Germany, role of Nuclear Emergency Assistance Team in, 24:7884
program for telephone personnel, 23:18037
program for uranium ore processing plant at Tokai, 21:20187(T) (NSJ-tr-66)
program for use of respirators in, at Chalk River Nuclear Laboratories, Canada, 23:16330
program for, at installation uncanning irradiated reactor fuel elements, 21:1736 (CEA-R-3019)
program for, following nuclear attack, 21:12842 (NP-16536)
program for, in Canada, 21:10871 (NP-16447)
program for, in New York state, 21:12871
program for, of astronauts during space flight, 21:16345(T) (JPRS-38272, pp 173-4)
program for, of personnel at Savannah River Plant, 21:14667
program in German Democratic Republic, 21:20184 (SZS-13/66)
program in Hungary, 23:50556
program in radiology department of general hospital, 25:29538
program in Sweden, 22:21517
program of Commonwealth X Ray and Radium Laboratory, 1969 annual report of, 24:31985(R) (NP-18121)
program of Commonwealth X-ray and Radium Lab., Australia, during 1970 for, 25:24188(R) (NP-18727)
program of North Carolina Board of Health, 22:51603
program of the Nuclear Research Establishment, Julich, West Germany, 25:32431(R) (JUL-670-ST)
programs at Atomic Energy Research Institute, Japan, 25:42480
programs at Atomic Energy Research Institute, Japan, 25:42481
programs at Battelle plutonium facility, 25:54959 (CONF-710401-, pp 280-92)
programs at Battelle-Northwest, 24:39508 (BNWL-MA-7)
programs at critical assemblies in France, 25:11079
programs at critical assemblies in Japan, 25:11081
programs at critical assemblies, in United Kingdom, 25:11084
programs at ISPRA, Italy, 24:7893
programs at JAERI during 1969 and 1970, progress report on, 25:8693(R) (JAERI-5025)
programs at Los Alamos Scientific Lab, 25:37824 (LA-4400)
programs at LRL, environmental and personnel, 24:50901(R) (UCRL-50007-70-1)
programs at New South Wales University during 1968, duties of personnel in, 24:44518(R) (NP-18286)
programs at nuclear installations, coordination of fire protection programs with, 25:37827
programs at radiochemical processing plants in Belgium, 25:11082
programs for accidents at radiochemistry laboratories, 24:7901
programs for accidents in France, 24:7888
programs for astronauts, use of radiation shielded human phantom and computer calculations for, 25:26778
programs for biomedical applications, development of laser, 24:21195
programs for control of hazards from radium-226 gamma sources and radium-226-incorporated luminous paints in USA, 24:34367 (CONF-690335, pp 44-53)
programs for critical assemblies, in Yugoslavia, 25:11083
programs for dental and medical x-ray facilities, priority system for state inspection in, 25:13459
programs for dental and medical x-ray personnel, 25:8690
programs for diagnostic dental radiography in USA, 24:34347
programs for diagnostic dental radiography in USA, 24:34346
programs for diagnostic radiography personnel in Japan, evaluation of, 25:42486
programs for environment and human population following accidents, 24:7887
programs for environment and personnel following accidents, 24:7886
programs for environment, personnel, and human populations following accidents, 24:7869 (STI/PUB-229)
programs for human patients and personnel during diagnostic radiography, 24:34355 (CONF-690335, pp 39-43)
programs for human population in USA, 24:34369 (CONF-690335, pp 72-6)
programs for industries, 22:45586
programs for industry and medicine in U.S.S.R, 23:9967
programs for industry, role of physicians in, 25:46865
programs for medical personnel, 24:48579
programs for medical personnel, 25:4528
programs for medical personnel and patients in Australia during 1969, 25:29526(R) (NP-18790)
programs for medical personnel during implantation of gold-198 therapeutic sources in patients, evaluation of effectiveness of, 25:52076
programs for medical personnel in Bulgaria, use of photographic film dosimeters in, 25:24178
programs for medical personnel in Great Britain, 24:23213
programs for medical personnel using radioisotopes in diagnostic studies, 25:52094
programs for medical radiography in North Dakota, 24:34348
programs for medical x-ray facilities, survey of U.S.A, 23:9933 (MORP-68-6)
programs for nuclear installations, 21:41418
programs for nuclear installations, 25:8661 (JAERI-4052)
programs for nuclear personnel, administration of, 24:50934
programs for off-site residents against radiation hazards from industrial applications of nuclear explosions, 24:23145 (SWRHL-82, pp 478-86)
programs for personnel at Karlsruhe Nuclear Research Center, 25:2570(R) (KFK-1158)
programs for personnel at nuclear research centers, 23:8000 (RT/PROT-(68)11)
programs for personnel at Tokai Nuclear Power Station, Japan, 25:42479
programs for personnel during transportation of radioactive materials, 25:21732
programs for personnel during transportation of radioactive materials, 25:21733
programs for personnel exposed to plutonium-239 in air, 25:42488
programs for personnel handling transuranium elements at Karlsruhe Nuclear Research Center, 25:37822 (EUR-4612, pp 585-93)
programs for personnel handling transuranium elements at Los Alamos Scientific Laboratory, 25:37798 (EUR-4612, pp 327-51)
programs for personnel in nondestructive testing, criteria and requirements for, 24:44521
programs for personnel in USSR, evaluation of effectiveness of, 25:52090 (A/CONF.49/P-439)
programs for personnel liable to incur alpha-contaminated wounds at Karlsruhe Nuclear Research Center, 25:37782 (EUR-4612, pp 563-72)
programs for personnel liable to incur alpha-contaminated wounds at Alpha-Chemie und Metallurgie G.m.b.H, 25:37783 (EUR-4612, pp 573-83)
programs for personnel mining and fabricating uranium and thorium, 25:52083
programs for personnel of National Institute for Metallurgy, Republic of South Africa, 25:46855(R) (PEL-188)
programs for personnel of nuclear industries in France, 23:50558
programs for personnel of radiochemistry laboratories, 25:52093
programs for personnel transporting radioactive materials, 25:21729
programs for plutonium processing at Casaccia Nuclear Center, Italy, 25:37820 (EUR-4612, pp 421-35)
programs for plutonium reactor fuel processing plants, 25:49205 (BNWL-CC-1906)
programs for processing plants using transuranium elements, 25:37821 (EUR-4612, pp 483-514)
programs for protection of human populations in Italy in event of accidents during shipping of radioisotopes, 25:8696
programs for radiation accidents in U.S.A, 24:7882
programs for radiochemical plants producing actinium-227 from radium-226, 25:37803 (EUR-4612, pp 547-58)
programs for radiochemical processing plants, 25:32430 (CEA-CONF-1724)
programs for radiochemical processing plants, 25:32432 (LFEN-102-b)
programs for radiochemical processing plants, 25:37819 (EUR-4612, pp 403-18)
programs for reactor personnel in Poland, 25:11080
programs for reducing hazards to human eyes from industrial, medical, military, and public sources, 24:46619
programs for state governments, 21:34675
programs for transuranium element production facilities at Oak Ridge National Laboratory, 25:37817 (EUR-4612, pp 291-325)
programs for use of plutonium-238 as power source for cardiac pacemakers, 25:37816 (EUR-4612, pp 115-41)
programs for, financial and personnel economics of, 21:14666
programs for, guidelines and standards for establishment of, 25:39874
programs for, status of development, international, 23:50556
programs in Australia during 1967 and 1968, 23:12064(R) (NP-17668)
programs in Belgium, 22:21518
programs in Canada, 21:45613 (NP-16900)
programs in Canada, review of, 23:29548
programs in Czechoslovakia, 23:38598
programs in dentistry, 21:28475
programs in developing countries, formulation and implementation of, 25:46875
programs in East Germany, 23:29552 (SZS-11/67, pp 5-22)
programs in Egypt, 25:52089 (A/CONF.49/P-142)
programs in EURATOM countries for, against surface water contamination by nuclear power plants, 25:46856
programs in Japan for, during use and disposal of radioisotopes, 25:21731
programs in New Zealand during 1967, review of, 23:7998 (NP-17624)
programs in nuclear industry, role of industrial hygienist in evaluating and controlling, 24:41898
programs in Portugal during 1965 through 1970, 25:52091 (A/CONF.49/P-523)
programs in Sweden, 25:42483

programs in Sweden, administration of, 24:41903
programs in Thailand for, during 1970, 25:16137 (NP-18658)
programs in U.S.S.R., review of, 23:6431(T) (AEC-tr-6965)
programs in USA, 24:34182 (CONF-690335, pp 9-12)
programs in USA, 24:34370 (CONF-690335, pp 77-83)
programs in USA, 24:34366 (CONF-690335, pp 4-8)
programs in USA for, 25:42487
programs in USA for, 24:34184 (CONF-690335, pp 34-8)
programs in USA for non-ionizing radiations, 24:34365 (CONF-690335)
programs of commercial producers of radiation sources and radioisotope-labeled compounds in USA, evaluation of, 25:29527 (NP-18791)
programs of Federal government in, of diet of infant humans, 22:51600
programs of nuclear power industry, legal aspects of environmental, 25:2564
protection from, review of problems in, 21:18155
Public Law 90-622 for, of human populations using electronic equipment, 25:24196 (BRH/DEP-70-26, pp 40-50)
quantitative bases for, lectures on, 24:50933
radiation measurements associated with, review of special characteristics of, 23:20250
radiobiological basis for, 21:20184 (SZS-13/66)
radiobiological concepts in, review of, 21:12831 (CMN-Pub-2/65)
recommendation on, ICRP, 25:42467
recommendations by advisory committee of Public Health Service for medical use of x rays, 22:51571 (NP-17507)
recommendations following survey of x-ray facilities in Public Health Service hospitals and outpatient clinics in USA during 1968, 24:48570 (BRH/DEP-70-17)
recommendations for demonstrations using radiation sources in schools, ICRP, 25:16205
recommendations for external source, ICRP (1970), 25:42455
recommendations for general public, 21:26468
recommendations for hospital patients and personnel, ICRP (1965), 25:42476
recommendations for increased training in, for dental radiologists, 24:729
recommendations for man in relation to external sources, ICRP, 25:16200
recommendations for maximum permissible radiation dose to personnel and populations from external and internal exposure, ICRP, 23:6483
recommendations for medical personnel and patients, 23:2834
recommendations for medical use of x rays, 23:31804
recommendations for occupationally exposed persons, 22:51651
recommendations for patients and personnel during dental and medical radiography, 24:50930
recommendations for patients during diagnostic radiographhy, ICRP, 25:16201
recommendations for personnel at French nuclear establishments, 24:25493 (CEA-CONF-1443)
recommendations for personnel in veterinary medicine, 25:44820
recommendations for personnel, in x-ray contact therapy, 24:12087
recommendations for pupils in schools, ICRP, 25:42473
recommendations for shipping radioactive materials by sea, Australian, 25:42449
recommendations for surveys of, in veterinary medicine installations, 25:11075 (NCRP-36)
recommendations for uranium miners, establishment of basic guides for, 23:31802
recommendations for use of radioactive materials and x-ray equipment in secondary schools, 24:25496 (NP-18142)
recommendations for veterinary surgeons, 25:42485
recommendations for women in atomic energy industry, 22:45591
recommendations for, of patients and personnel in dentistry, 25:26772
recommendations for, of personnel against high-energy electromagnetic radiations, electrons, neutrons, and protons, ICRP, 25:42464
recommendations of Federal Radiation Council for environmental levels of cesium-137, iodine-131, strontium-89, and strontium-90, 25:13433
recommendations of ICRP, 23:33737
recommendations of ICRP, 25:27036 (CONF-691057)
recommendations of ICRP for maximum doses to individuals and populations, 22:28471
recommendations of ICRP for, history of development of, 23:12077 (ZFK-125)
recommendations of ICRP on, 24:32032
recommendations of National Council on Radiation Protection for neutron, 25:19007 (NCRP-38)
recommendations of National Council on Radiation Protection for, 25:19008 (NCRP-39)
recommendations of subcommittee in dental teaching and practice, report on, 23:35804
recommendations of the ICRP for, of workers and public, UKAEA adoption and use of, 21:39393 (AHSB(RP)R-78)
regulations and standards for microwaves, uv radiation, and radiation from lasers and television receivers, bibliography on, 23:24615 (PHS-999-RH-35)
regulations by states in U.S, 21:22451
regulations for dentistry, 25:29530
regulations for industrial and medical personnel, federal and state, 25:18973
regulations for medical facilities in Switzerland for, 21:32664
regulations for personnel and public during demonstrations using radiation sources or radioisotopes, 22:45584
regulations for personnel transporting radioactive materials on roads in Great Britain, 1970, 25:42451
regulations for personnel working with radioisotopes and x-ray equipment in New South Wales, Australia, 24:12071
regulations for radioactive materials shipping, IAEA, 22:28056
regulations for radiotherapy facilities in Germany, 23:29519
regulations for shipment of radioactive materials by air, International Air Transport Association (1970), 25:42457
regulations for shipment of radioactive materials by air, International Air Transport Association (1970), 25:42456
regulations for surveys of diagnostic x-ray equipment, 23:43796 (DMRE-69-2)
regulations for, in Hungary, 21:3406
regulations for, review of, 21:1770
regulations for, technical basis for, 24:9861
regulations in Belgium, hospital adaptations for, 24:21200
regulations in East Germany, compilation of, 24:31029 (SZS-18/69)
regulations in Great Britain for industrial personnel using unsealed radioactive materials, 25:42468
regulations in Great Britain for industrial personnel using sealed radiation sources and x radiation, 25:42469
regulations in New Hampshire for, of personnel, patients, and general public, 25:21735
regulations in universities, 22:499
regulations in Washington state, legal, 22:45553
report on, Department of Medical Sciences, Ministry of Public Health of Thailand, 23:31795(R) (RPS-AR-1)
requirements for astronauts during space flight, determination of, 21:16344(T) (JPRS-38272, pp 124)
requirements for building design, 23:20212 (CONF-680507-, pp 623-8)
requirements for fissile materials, IAEA, 22:28041
requirements for handling of transplutonium elements, methods for complying with, 24:31649
requirements for handling plutonium dioxide—uranium dioxide fuel rods, 25:4314
requirements for laboratory facilities using radioisotope sources, 23:24341 (CONF-670649-39)
requirements for patients and personnel in diagnosis and therapy, evaluation of, 24:36765
requirements for reactor personnel, review of, 23:37560 (NP-17851, pp 127-62)
requirements for, during interplanetary travel, 21:12846
research activities on, during 1967, summary of French, 23:2821 (NP-17597, pp 137-50)
research at Columbia University, 23:48045(R) (NYO-2740-6)
research at Commissariat a l'Energie Atomique, 23:47815(R) (NP-17994)
research at Harwell during 1969, 24:44473(R) (AERE-PR/HPM-14)
research at Institute of Nuclear Research at Rez, 22:43327
research at Juelich reactor center in Germany in 1967, 23:31800 (JUL-543-ST)
research at Studsvik, Sweden in, 22:33399
research at UCLRL, Sept.-Dec. 1970, 25:34873(R) (UCRL-50007-70-3)
research in Netherlands, 24:4595(R) (EUR-4295)
research on environmental, review of, 24:31902
research on military applications of, 1967 summary of French, 23:4499 (NP-17597, pp 83-95)
research on, IAEA sponsored, 24:39470 (STI/DOC-10/105)
research on, in Netherlands, progress report for 1970, 25:16089(R) (EUR-4545)
research programs in Great Britain, progress report on, 22:49355
research programs of Chalk River Nuclear Laboratories, Canada, review, 24:23223 (AECL-3254)
research studies for radioactive aerosols, 22:23508 (SC-M-67-2973)
responsibilities of Division of Biology and Medicine of AEC in, review of, 22:51605
review of basic safety standards for, 23:45763
review of biological and medical aspects of, 21:45640
review of human, 25:16115 (NP-18513)
review of human, 23:29869
review of human, 25:16135 (NP-18514)
role of environmental health personnel in, 23:18033
role of Federal Radiation Council of United States in, 23:14200
role of health physicist in, 23:18032
role of physician in, 23:18036
role of public health field in, 23:14199
role of Public Health Service in, assessment of, 22:28478
safety problems in reactors, review of, 23:37379 (NP-17851)
safety procedures for port-call in Japan of USS Swordfish, 23:13569
service at plutonium production center in France, 23:14171
shielding calculations for supersonic aircraft against solar-flare protons, 21:21007
shielding configurations for manned rocket reactors, 23:37674
shielding requirements for rocket reactor, calculation of optimum, 23:37675
slot dozer trench for, of hospital patients and personnel, 21:8561
standard policies and procedures for, 22:43299 (AECL-1027(5th Ed.))
standards and controls for personnel and general population at Atlantic Richfield Hanford Company, manual of, 24:4632 (ARH-220)
standards and procedures for U. K. power reactor personnel, 22:53313
standards and training programs for, of industrial personnel in Soviet Union, 23:50574
standards at Los Alamos laboratories, 22:36254 (LA-DC-9005)
standards developments in West Germany, review of 1968 and 1969, 25:1913
standards established by ICRP for nuclear reactor sites, 21:43441
standards established by Protective Action Guide for livestock exposure to fallout, 22:2514
standards evaluation for, in terrestrial use of isotopic generators, 21:26118
standards for, 24:21847
standards for, 21:28426 (ANL-7291)
standards for, 22:4666
standards for accelerator, NCRP, ICRU, and ICRP work on, 24:44515 (CONF-691101-, pp 21-30)
standards for accelerators with energies less than 100 MeV, 24:44516 (CONF-691101-, pp 31-41)
standards for acute localized and worldwide contamination of environment by cesium-137, strontium-89, and strontium-90, 25:29533
standards for adjacent and remote human populations during pre- and post-detonation phases of Plowshare Project, role of Public Health Service in enforcing and evaluating, 24:23233 (SWRHL-82, pp 721-8)
standards for aviation and medical personnel at airfields following nuclear explosion, 22:4642
standards for consumer products containing radioisotopes and available to general public, 24:46618
standards for dental patients and personnel, 24:724
standards for dental radiography in Canada, 22:19334
standards for dental radiography in Maryland, 23:45775
standards for design of storage facilities for radiation sources, 25:11078 (Y-1754)
standards for disposal of radioactive corpses of man, 22:4625
standards for electronic equipment, legislation for administration of, 24:736
standards for environment in USA, 1971 status of, 25:39875
standards for environmental exposure of human populations in USA, AEC, ICRP, and NCRP, 25:11076
standards for environmental planning, 23:20259
standards for environmental, in nuclear industrialized countries, establishment of effective, 25:46881
standards for external and internal exposure of population in Soviet Union, 21:41404(T) (JPRS-41259)
standards for eyes of man, laser, 22:12784
standards for fallout, criteria for establishment of, 22:25834
standards for firemen during fires in buildings housing radioactive materials, 25:24195
standards for fuel shipping containers, 23:11743
standards for general population and personnel in nuclear industry in United States, 23:14153 (DUN-SA-77)
standards for hospitals in Netherlands, 22:2518
standards for hot laboratory personnel, manual on, 24:7867 (STI/PUB-169)
standards for human population in area of nuclear installations, 22:40668 (STI/PUB-124)
standards for human population wearing radioluminous timepieces, IAEA (1966), 25:46863
standards for human populations, review of background data for, 25:42692
standards for human populations, review of background data for, 25:42693
standards for human populations, review of background data for, 25:42691
standards for Indians derived from basic ICRP maximum permissible concentrations in man, 23:48075
standards for industrial applications of underground nuclear explosions, data required for development of, 24:23231 (SWRHL-82, pp 664-70)
standards for industrial personnel, development of, 22:23525
standards for industrial radiography personnel in France, 22:36265
standards for industrial, in Germany, 22:33833
standards for industry in Great Britain, 21:41425
standards for La Crosse Boiling-Water Reactor personnel, manual on, 24:24734 (ACNP-68505-J)
standards for labeled compound in relation to doses from carbon-14 and tritium in rats, effectiveness of, 23:20239
standards for laboratories, in Italy, 23:12078
standards for laboratory personnel handling radioisotopes, 22:501
standards for man against lead-212, effects of age on, 22:51322
standards for man and personnel during medical diagnosis, 22:45510
standards for man during diagnostic radiography, ICRP, 25:42453
standards for man during space flight, 22:36273
standards for man in Alabama, 22:40701
standards for man in Louisiana, 22:40702
standards for man in relation to industrial applications of nuclear explosions, philosophy of Federal Radiation Council in development of, 24:23229 (SWRHL-82, pp 498-507)
standards for man, application of basic, 23:50553
standards for man, contribution of radiobiology to, 22:8520 (CONF-670305-, pp 192-6)
standards for man, economic aspects of, 22:25992
standards for man, ICRP (1969), 25:42454
standards for man, legal aspects of, 22:10835
standards for man, review of, 23:10106
standards for man, role of public health officials in meeting ICRP recommendations for, 23:48079
standards for manned space flight, 22:6918
standards for manned space flight, evaluation of, 22:6824
standards for maximum allowable radioactive effluents from pressurized water power reactors, 24:33382
standards for maximum permissible concentration of radioactive aerosols in air, 22:23508 (SC-M-67-2973)
standards for maximum permissible concentration of radioisotopes in body of man in Italy, 25:8698

standards for maximum permissible concentrations of radioisotopes for air for 40-hr-wk in areas of thermal fission of uranium-235, 24:4640
standards for measurement of iodine-125 activity, 22:30642
standards for medical, 22:40719
standards for medical personnel and patients during diagnostic radiography, 25:42493
standards for medical personnel handling radioisotope-contaminated cadavers, 21:36616
standards for medical personnel in relation to human cytogenetics, 22:38245
standards for medical radiodiagnosis, 22:45535
standards for medical radiography in U.S.S.R, 22:6809(T) (AEC-tr-6467/2, (pp 177-94))
standards for medical radiography in Virginia, development of, 23:6477
standards for monitoring environment at nuclear installations, 22:43322
standards for nuclear industry personnel, in Switzerland, legislation for, 22:36266
standards for nuclear medicine departments, 21:30813
standards for nuclear power plant effluents, 25:23210
standards for nuclear power plant radioactive effluents, 25:18081 (BRH/OCS-70-1)
standards for nuclear reactor, 21:40645
standards for operation of lasers, 22:38252 (CONF-660573-, pp 97-109)
standards for ORNL Dosimetry Applications Research (DOSAR) Facility, 21:41397 (ORNL-TM-1981)
standards for patient and medical personnel during therapy for skin cancer, 22:15007
standards for patients and medical personnel during medical radiography in Australia, 22:28536
standards for patients and medical personnel during diagnostic radiology, 22:38286
standards for patients and medical personnel in Australia, 25:26738
standards for patients and personnel during x-radiodiagnosis in Belgium, 22:47626
standards for permissible dose data for use in formulation of, 21:32629 (ANS-SD-4, pp 11-17)
standards for personnel, 21:28639
standards for personnel and general population, USSR, 25:52062 (A/CONF.49/P-429)
standards for personnel at nuclear power centers in Italy, 25:42478
standards for personnel handling radioactive materials, 25:2573
standards for personnel in uranium mines, 25:29536
standards for personnel of nuclear reactor fuel fabrication plants, 25:29534
standards for personnel of uranium mines and mills, 25:29535
standards for personnel using lasers, review of, 22:2516
standards for personnel, conference on, 24:48573
standards for personnel, in nuclear industry and research in Australia, 25:42495
standards for Plowshare program, application of basic, 24:9840 (CONF-690303-, pp 63-72)
standards for populations in relation to protective measures in medicine, 25:35147
standards for pregnant human females during radiography and radioisotope scanning, 23:20415
standards for protection of personnel handling γ source, 21:45655
standards for public exposure, 24:7912
standards for Puerto Rico Power Reactor, 22:23507 (PRWRA-GNEC-7(Rev.2))
standards for radiography personnel, 25:4531
standards for radioisotope contamination, interspecies correlations for, 23:14193
standards for radiological personnel, manual on technical problems of, 24:7868 (STI/PUB-201)
standards for release of radioactive materials from AEC installations, 22:40697
standards for shipping radioisotopes by mail in Australia, 25:42494
standards for space flight, 22:12829
standards for space flight personnel, 22:12925
standards for transportation of radioactive compounds in U.S.S.R, 22:6810(T) (AEC-tr-6467/2, (pp 143-76))
standards for unsealed sources, 22:12862
standards for uranium miners, development of, 23:16294
standards for uranium mines, 22:33824
standards for uranium mining, evaluation of, 24:4638 (COO-1826-4)
standards for use of dental x ray equipment in U. S, 22:43325
standards for use of lasers at Sandia laboratory, 22:51573 (SC-TM-68-436)
standards for use of radiation sources for demonstrations and experiments at high school and undergraduate college level, 21:28438 (NCRP-32)
standards for workers in Roumania, 22:33832
standards for x-ray and microwave doses to man from color television sets and microwave ovens, 23:50555
standards for x-rays emitted by home television receivers, 25:29537
standards for, Canadian legislation for control of design and sales equipment in relation to, 25:21734
standards for, comparison of, with exposures during nuclear reactor experiments, 21:6539
standards for, confirmation and revision of, 21:28453
standards for, derivation of from studies of humans with skeletal deposits of radium-226 and radium-228, 21:8994
standards for, development of, 24:2317 (CONF-690705)
standards for, development of domestic and international, 25:52104
standards for, development of, using data on human low-level exposure to radium-226, 21:8890
standards for, evaluation of, 21:41407
standards for, evolution of USA and international, 25:42452
standards for, from radium in skeleton of man, 21:16356
standards for, IAEA (1967), 25:46862
standards for, in handling unprotected radioactive substances, 21:12617
standards for, in hospital radioisotope facilities, 21:8855
standards for, of man, evaluation of, 21:6519
standards for, of radar operators, 21:18135
standards for, of uranium miners, 21:14671
standards for, problems in setting, 24:50925 (AECL-3685)
standards for, review of, 21:45640
standards for, review of development of ICRP, 25:58024 (CONF-711104-1)
standards for, role of dose-effect modifying factors in, 24:50892 (CONF-691212-, pp 399-411)
standards for, summary of basic principles for ICRP, 25:42466
standards for, use of average-annual concentration for, 24:48583
standards for, use of monitoring in development of, 21:34646 (AECL-2900)
standards for, use to determine MPC of radioisotopes in mixtures, 21:28497
standards in Canada, 21:43367 (NP-17029)
standards in Colombia, 21:28436 (IAN-SR-1)
standards in France, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
standards in medicine, review of, 21:16354
standards in medicine, review of, 21:28525
standards in Portugal, review of, 21:28437 (LFEN-55)
standards in relation to environmental contamination, 24:7828
standards in relation to internal dose, ICRP calculations and recommendations for, 24:23230 (SWRHL-82, pp 508-28)
standards in Soviet Union, 21:45645
standards in Soviet Union for, adopted in 1969, 25:24185(T) (AERE-Trans-1134)
standards in Sweden for nuclear power plant effluents, 25:12757 (SSI-70-27)
standards in Swedish radioisotope laboratories, 21:24422(T) (NRC-TT-1264)
standards in USA for, trends in National Council on Radiation Protection (1957), 25:42487
standards in USA, directory of personnel involved in development of, 25:13469 (ORNL-NSIC-75(Rev.1))
standards of American Dental Association for medical personnel and patients during dental radiography, 22:15009
standards of Atomic Energy Commission, 22:19335
standards of Belgium government, 22:31099
standards of Belgium government, international collaboration on, 22:31106
standards of EURATOM and IAEO, survey of, 21:39410
standards of EURATOM for, 21:24449
standards of EURATOM for personnel, 22:19330 (NP-17180)
standards of FRC, ICRP, and NCRP, recommendations for, 25:4532
standards of ICRP in relation to internal dose, 23:16305
standards of International Commission on Radiological Protection for man, recommendations on, 21:24440
standards of, effects on fast reactor design of, 25:8089 (BNWL-SA-3093(Vol.1), pp IV.1-29)
standards of, Union of South Africa, 25:55245
standards recommended by ICRP in relation to Canadian nuclear activities, 23:819 (NP-17444)
supervision in installations using tritium, 22:19345
survey in hospitals using radioisotopes for diagnosis and therapy, 21:22446
survey of dental x-ray installations in Wisconsin, 24:32012
survey of methods for, at x ray installations in Thailand during 1969, 25:16198(R) (RPS-AR-3)
system for, at Savannah River, 21:5700 (DP-1071)
techniques for tritium, 23:4930(T) (NP-tr-1703)
techniques for, development of, handbook on, 21:24452
training course on, for physicians, 21:22456
training for safety of monitoring personnel at Lawrence Radiation Laboratory, program for advanced, 24:25497 (UCRL-50789)
training in Japan, needs for, 24:31665
training of personnel in methods for, 21:36584
training program for, 21:28426 (ANL-7291)
training programs for personnel, 22:28493
training programs for, of pharmacists using radioisotopes, 22:40722
training programs in, 21:39391 (AECL-2656)
use of tissue cultures for study of, review of, 22:23431
waste disposal, review of incinerator systems for, 23:23936 (CONF-680821)

Radiation Pyrometers
see Pyrometers

RADIATION RATE METERS
accuracy estimation for logarithmic, 21:6276
accuracy for calibration of x-ray equipment for biological studies, 23:26797
amplifiers for, design of logarithmic current, 22:23340(P)
calibration for γ irradiation facility, 21:26426
calibration of Concorde SST, development of LET spectrometer for, 23:50172 (AWRE-O-57/69)
calibration of Cooke—Yarborough logarithmic, 23:50116 (INR-1089)
calibration of gamma dose, device for, 22:14848 (AERE-M-1763)
circuit for saturating diode-pump, scale-of-2 input, 24:50648
circuit for voltage correction from, analog, 25:21418
circuit for, binary rate multiplier, 25:10840
circuit to compensate for beam current variations in channeling experiments, design of, 22:28218
circuits for two, ratio, 25:51942
circuits for, calculation of output voltage distribution of saturating diode-pump, 24:9714
count rate estimation of Poisson pulse train using sequential analysis, 24:48265 (ZJE-64)
deadtime losses in, binary rate multiplier circuit for automatic correction of, 25:10840
description for monitoring on lunar surface, 24:27349 (N-70-21176)
description of binary rate divider, 25:37691
description of multichannel dekatron scales, for area monitoring, 23:21331 (MIT-952-5(Pt.1), pp 200-314)
description of portable, 25:34868 (SZS-2/71, pp 1-6)
design and calibration of pocket alarm, 24:14311 (DUN-5938)
design and construction of transistorized, 22:28065 (NP-17356)
design and operation of logarithmic scintillation, 24:2446 (INR-P-1074)
design and performance of, 21:19991(R) (RISO-M-448)
design and performance of gamma, 21:332
design and use of under-damped operational, with radioisotope scanners, 24:31701
design and uses of, survey on, 22:43161
design for count rate analysis, 25:42103(P)
design for neutron monitoring and burst detection, 21:16203(P)
design for portable continuous air monitor, 21:8622
design for use with Geiger-Mueller tubes in aerial surveying of ground-level radioactivity, engineering materials for, 21:32483
design modification of, for reducing statistical fluctuations, 25:398
design of alpha-beta ratio logarithmic, 21:45345(R) (IDO-17234)
design of cadmium sulfide high-level gamma, 22:47321 (RD/B/N-1108)
design of compact battery-operated G—M, using bootstrapping to eliminate cable capacitance effects, 23:9723
design of continuous digital, 23:29282
design of continuous digital linear, 24:47891 (ANL-7610, pp 369-464)
design of digital, controlled by input data rate, 21:32508
design of digital, for neutron monitor, 21:22161
design of dual-channel scintillation detector, with logarithmic readout, 24:27344 (DP-1202)
design of Geiger—Mueller, 24:4443
design of Geiger—Mueller, for emergency monitoring, 23:47777
design of ionization, for reactor period, 21:4422(P)
design of linear count, for use in α or β-γ radiation monitoring system, engineering drawings for, 21:32427
design of linear-log, which uses silicon planar transistors, 21:4683 (ANL-6968)
design of log n solid-state period meter for reactor control, 21:358
design of mains-operated cadmium sulfide detector, for high-level gamma radiation, 23:31518 (RD/B/N-1336)
design of satellite-borne, for detecting cosmic radiation, 23:4805(T) (JPRS-46925)
design of scintillation, for monitoring air filters, 23:11755 (DP-1176)
design of scintillation, for monitoring air filters, engineering drawings for, 23:22036
design of semiconductor, for pulsed radiation, 24:7632(P)
design of standard solid-state count, for use in radiation instruments, engineering drawings for, 21:36469
design of true random, with automatic dead-time correction for duty factors up to 99 percent, 23:9702
design of wide-range logarithmic, 23:22124
design of wide-range, utilizing plural count rate circuits and range identifier, 21:8618(P)
design with automatic deadtime correction, 25:37586(P)
design with noise suppression, 25:8503
detection probe accessories for DL-50, activity measurements with, 23:19931 (CONF-680507-, pp 212-24)
development and testing of Geiger-Mueller, for use for area and personnel dosimetry, 22:21534
development at JAERI, 1967, 23:17749 (JAERI-5017, pp 107-30)
development for nuclear medicine, survey of, 23:7765
development of digital, for determining reactor power, 21:32511
development of scintillation detector, 25:18684(P)
development of scintillation, for low-level pulsed x rays, 25:44696
evaluation of Bradley—Marks correlation, for low-level activity measurements, 23:38269
maintenance manual for linear, ORNL Model Q-2622, 22:19192 (ORNL-TM-1638(Pt.22))
measurements with tactical military, relation with radiobiological effects table, 22:376 (USNRDL-TR-67-67)
modulation transfer function in analog, effects on modulation transfer function in scanning, 21:18106
mounting board for solid-state, 21:36469
operation and maintenance manual for portable AAEC type 239, 22:19182 (AAEC/M-77)
performance for continuous monitoring of γ activity in air, 22:45557
performance for dual radioisotope scanning using scintillation detectors, 23:31852
performance for dual-channel subtract scintillation scanning system, 22:49402
performance for measurement of dose from cobalt-60 applicators during therapy of gynecological neoplasms, 25:58010
performance for use with dual scintillation detectors for radioisotope localization of tumors in human brain, 22:49404(P)
performance of analog and digital, 21:8227
performance of digital count, statistical, 24:47891 (ANL-7610, pp 369-464)
performance of digital, for film contrast enhancement in rectilinear scanning, 24:50570
performance of silicon solar cell, for β dosimetry in strontium-90 extracorporeal blood and lymph irradiator, 24:4616 (BNL-14154)
performance of, with operational amplifiers, 24:16842

performance with ionization probe for dosimetry of 6 MeV x rays, 22:28530
properties of combination scaler-, statistical, 22:43184
reliability of, statistical analysis of, 24:5892
response distortion of nonlinear, correction methods for, 21:6210
response of logarithmic, computer programs for calculating, 23:11750 (AECL-3181)
response time distortions of linear, methods for corrections of, 21:6213
spurious alarms in analog and digital, frequency of, 25:13225
standards for criticality accident alarm system, ANS, 22:6591
time control for solid-state, 21:36469
transient detection system for operation with, design and performance of, 23:38242 (ANL-7470)
trip level distributions in reactor safety systems, (T), 24:33384
use for control of occupational exposure, 23:4803 (BNWL-SA-2108)
use in civil defense in rural areas of Soviet Union, 21:34659(T) (ORNL-tr-1693)
use in continuous monitoring system, frequency of spurious alarms in, 23:4824
use in data processing system for satellite-borne scintillation detectors, 21:32470
use with photomultipliers as readout equipment for thermoluminescent dosimeters, 23:7820 (CONF-680920-, pp 248-65)
variance of, estimation of, 24:22992
weighting function for, method for determining optimum value for duration of, 23:19976

RADIATION-SCATTERING ANALYSIS
  see also Beta-Diffraction Analysis
  see also Electron-Scattering Analysis
  see also Neutron-Diffraction Analysis
  see also Proton-Scattering Analysis
  see also X-Ray-Diffraction Analysis
accuracy of beta, 22:6260
book: Nuclear Physics Methods for Analysis of Mineral Ores, in Russian, 24:18904
development of, using Compton effect, 25:41752(P)
grain size effect in low-energy gamma and x, 23:13660
method for gamma resonance, 25:37327
method for reactor materials, 24:36530 (ORNL-4520, pp 308-14)
method of alpha-particle, for determination of traces of heavy elements in bulk light material, 25:57360
methods and uses of, review of, 21:15862
methods of radioisotope, for mining and metallurgy, review of, 21:26070
sensitivity for constructing surface impurity profiles, 25:26183
sensitivity of triple backscattering of electrons for, 22:30486
sensitivity, principles, and uses of, review on, 25:26186 (BARC-529)
uses in industry, 23:37870
uses in industry, review on, 24:11476

Radiation Shielding
  see Shielding

Radiation Sickness
  see Diseased, Traumatic

RADIATION SOURCES
  see also Beta Sources
  see also Gamma Sources
  see also Heat Sources
  see also Light Sources
  see also Particle Sources
  see also Ultraviolet Sources
  see also X-Ray Sources
activity measurements of, use of slide projector as inexpensive automatic sample changer for, 23:17763
activity of liquid and solid, method for measuring, 21:24239
activity of, solid angle subtended by detector for measuring, 21:17854
analysis of mixed, for radioisotopes, spectrographic, 21:1241 (CEA-R-3033)
availability and description of, in France, 23:45455
availability and properties of, in Europe, 1969 data tabulations of, 23:24392
availability of megavoltage, for therapy in U.S.A, 23:45853
backing for, preparation of mylar, 22:45321
bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
book: Radiation Chemistry, Principles, Techniques, and Uses, in German and English, 22:27832
book: Standard Sources of Ionizing Radiation, in Russian, 21:27928
bremsstrahlung spectra from lead-210—beryllium, 24:20303
calculation methods for extended, point kernel integration, 23:16857
calibration and standardization in Australia, 1969-70, 25:24188(R) (NP-18727)
calibration for use in therapy, 24:9907
calibration of beta-gamma, method for, 24:2462
calibration of flux-monitor, interlaboratory counts for, 22:43615(R) (BNWL-710)
calibration of isotopic, development of equipment for, 25:55070(R) (BHO-67-2)
calibration of, at Cadarache, France, description of facility for, 25:54851
calibration of, gravimetric and volumetric methods for minimizing dilution and sampling errors in, 25:57498 (CONF-711002-, pp 283-92)
calibration of, need for standards in USA for, 25:39864
calibration of, review of USSR methods for, 24:16840(T) (UCRL-Trans-10429)
calibration standards for, 25:6471 (NBS-SPEC. PUBL-331)
capsule classification system for, temperature and structural characteristics of, 21:39148
capsule design for, testing methods for classification of, 23:38181 (ORNL-4427)
capsule for, design of, 24:25228(P)
capsule insulation for, heat transfer of, 22:10481(R) (ALO-3634-6)
capsule testing for leaks, temperature resistance, and structural integrity, 21:26067 (ORNL-4092)
certification of standardized, requirements for, 23:2515 (ICRU-12)
changing in radiographic cameras, design of cable-type coupling for, 22:16749(P)
characteristics of sealed, for industrial radiography, 23:11727
classification of encapsulated, method for, 25:46589 (CONF-700646-, pp 46-56)
classification of radioisotope, for use in portable x-ray analyzers, 25:44555
classification of sealed, standard for, 25:32137
classification of, development of rating guide for, 23:2519 (ORNL-4329)
cleaning surfaces of, for radioactive static eliminators, method for, 24:9618(T) (CEA-tr-R-1971)
coating of, electro-deposition of gold-base alloy protective, 24:25663(P)
collimation system for, design of, 25:10781(P)
collimator for, design of, 23:19911(P)
compaction of, design of hot press for, 21:41062 (ORNL-TM-1900)
conference on large, for industrial processes, Munich, Aug. 18 to 22, 1969, 24:13878 (STI/PUB-236)
conference on low-energy, Austin, Texas, March 27 to 29, 1967, 22:250 (ORNL-IIC-10(Vol.2))
conference on polarized targets and, Saclay, France, Dec. 1966, 21:42502
construction, calibration, and testing of, book on, 21:27928
container for, design of shielded, 24:48253(P)
containers for, design of three-compartment, 25:39698(P)
containment of, device for ascertaining, 22:8427(P)
conveyor system for, in irradiation facilities, 24:22974(P)
cooling by forced-air, equipment and method for, 23:40978(P)
counting of, Monte Carlo program for calculating solid angle subtended by detectors for, 21:19901 (ORNL-4099)
counting position for angular correlation experiments, determination of eccentricity in, 21:24209
counting rate of an isotropic, as a function of distance (kr) from a sphere of radius (r), 22:49326 (NYO-2740-5, pp 6-200)
damage to, device for detection of, 21:3335(P)
description of americium-241 fluorescence-type, for density and thickness measurements, 23:50203
design and fabrication of injectable, for radiotherapy, 24:16797(P)
design and performance for blood irradiation, iron-55, 24:50674(R) (BNWL-1306(Pt.1))
design for biosatellite testing, 22:4359
design for food irradiation research, 23:35962
design for military applications using wall-stabilized arc, 22:41620 (AD-662350)
design for optimum size and efficient radiation emission, 22:258 (ORNL-IIC-10(Vol.2), pp 764-85)
design for radiography, 24:401(P)
design of capsule-enclosed nonshifting, 24:14190(P)
design of constant dose rate, 23:16052(P)
design of facility for changing, between channels, 21:1549(P)
design of high-energy isotropic, for space simulation, 23:27908 (N-69-13871)
design of infrared and uv, for medical use, 22:23561
design of polarized photon, by backscattering of laser beams from electron beams, 23:28201
design of polarized photon, by backscattering of laser beams from electron beams, 23:28202
design of radioisotope, for food and process irradiation, criteria for, 25:39660
design of rod-type, for use in irradiation device, 24:2353(P)
design of sheet, containing small radioactive beads, 22:33609(P)
design of spent fuel element, 22:2283
design of, for exposure of biological materials, 21:12731(P)
design of, lectures on, 22:35998 (ISS-68/6)
design of, U.S. patents 1950 through 1968, 25:34777 (ORNL-IIC-34)
detection and measurement of pulsed, error analysis associated with, 23:33391
development and fabrication of radioisotope, 21:39129 (ORNL-4155)
development and use of low-energy, in medicine and industry, 22:2312 (ORNL-IIC-10(Vol.1), pp 1-17)
development and uses of, in radiation chemistry, review on, 21:38991
development and uses of, review of, 22:19056
development for commercial-scale radiation preservation of foods, review of, 22:14730
development for industrial use in USSR, 23:31490
development for radiation processing, economics of, 21:39146
development for radiography, 23:43480
development in Canada, 21:5595 (AECL-2486)
development of advanced, 25:34803(R) (BNWL-1308-5)
development of advanced, 25:18590(R) (BNWL-1308-4)
development of isotopic, 25:18870
development of large industrial, in Russia, review of, 21:28045
development of polarized photon, by Compton backscattering of optical photons, 22:24752 (UCID-15296)
development of radioisotope, program for, 24:20948(R) (BNWL-1308-1)
development of registration system for, 23:29550 (MORP-68-3)
development of standard cobalt, at BNL, 21:10544 (BNL-986)
development of Swedish research progress in, 21:19719
development of, conference on, 24:24682
development of, technical progress review on, 25:57127
developments in, at BNL, 22:37775 (BNL-50082, pp 40-78)
directional control in radiotherapy equipment, design of system for, 22:228(P)
distribution in radioactive bead-loaded organ phantom, arbitrary, 24:27579 (ANL-7615, pp 76-81)
dose calculation and measurement at particular distances from, method for, 24:36758
dose calculations and measurements at particular distances from, methods for, 23:20214 (HMI-B-78)
dose curves for, use of computer calculations for, 25:19000
dose distribution from implant or interstitial, used for therapy, use of computers for calculations of, 25:21704
dose field homogeneity of, methods for improving, 24:50522
dose from artificial, to man compared with dose from natural background radiation, 21:12850
dose from moving, (T), 25:5243
dose function of plane infinitely thin, situated on boundary between two media, 25:55233
dosimetry of design of unit for, for therapy, engineering and shielding problems in cobalt-60 γ, 24:50942
dosimetry of distributed radioisotope, 25:24161
dosimetry of high activity isotopic, use of photon induced activity of natural cadmium and indium for, 21:24167 (ISS-66/46)
dosimetry of high intensity, development of chemical dosimeter for, 22:8540
dosimetry of ultra high intensity, research on, 24:50899(R) (NYO-3510-16)
economic feasibility of large, for radiopreservation of potatoes and onions, 21:32329 (NP-16757)
economics in radiation chemistry, 24:212 (CEA-CONF-1298)
economics of food irradiation, 23:35975
economics of industrial, methods for calculating depreciation, 25:338
effectiveness of small, for therapy of tumor remnants in human cervix following external γ or x radiotherapy, 25:58074
effects of extended, on isosensitivity lines of multichannel collimators, 21:10986
efficiency of fission product, in stacked-foil configuration, 21:134
emission from dipole, in moving plasma, (T), 22:7296
emission from point, with exponential decrease in output, (T), 24:18047
evaluation for radiopreservation of food, 21:24142
evaluation for therapy of advanced cancer, 24:48647
evaluation for use in radiometric thickness gage, 23:29102
evaluation of conventional, orthovoltage, and megavoltage for therapy, 23:45853
evaluation of, for external and intracavitary use for radiotherapy, 21:12891 (BNL-9598)
exposing and shielding, in irradiation facility, design of equipment for, 21:17795(P)
fabrication and handling of, safety analysis of Isotopes Alpha Handling Facility for, 24:19187 (ORNL-TM-2845)
fabrication and performance of miniature, 23:40957
fabrication at Saclay, France, description of facility for, 24:50540
fabrication by hot pressing, design of equipment for, 21:19857
fabrication of isotope, for static eliminators, 24:5957(P)
fabrication of plate-type, 23:26472(P)
fabrication of uranium-235-enriched nickel—uranium alloy coated tantalum, 23:7699(P)
gamma absorption in cobalt-60, for industrial radiation processing and teletherapy, Monte Carlo calculations for, 24:31627
gamma dose rates from plutonium oxide, calculation of surface, 24:31629
geometry corrections for radiation detector and, Monte Carlo calculation of, 23:26542
geometry efficiency of parallel-disk system of detector and, integral method for determining, 22:10563
geometry factor of large plain, 21:41231
geometry factors for calibrating, tables of, (T), 21:17853
geometry of detectors with respect to, system for exactly orienting, 22:28115
geometry of radiation detector—, Monte Carlo calculation of, 22:14787
geometry of, flux from spherical source compared to point source, 22:14756(R) (UCRL-50007-67-2)
geometry with respect to radiation detectors, Monte Carlo calculation of solid angle of, 21:43266
handling and storage of, design of automatic closing shielded container for, 25:21377(P)
handling and transport of large, IAEA regulations for, 21:8571
handling by industrial personnel, methods for radiation protection during, 22:45572
handling in hospitals, ICRP recommendations for radiation protection in, 25:42476
handling in irradiation facilities, device for, 22:47299(P)
handling of ruptured radium, method for safe, 24:33860 (BRH/SERHL-70-1)
handling of sealed and unsealed, in hospitals, 21:1761
handling of sealed, hazards to personnel from, 23:33733
handling of, bibliography on accidents during, 22:12895 (AED-C-16-03-I)
handling of, design of system for remote, 22:43019(P)
handling of, methods for, 23:26816
handling of, methods for safe, 23:2546
handling of, safety in, 23:16303
handling, licensing, and packaging procedures for, catalog of, 21:45181
hazards from industrial, regulations and precautions for protection against, 25:32389

hazards from, used in Norway in relation to human injuries, 25:39888
hazards in secondary schools, recommendations for protection against, 24:25496 (NP-18142)
hazards of artificial hearts powered by, study of, 24:2776 (NYO-4039-1, pp 150-62)
holder and hole collimator for, design of, 24:16749(P)
holder for plesiotherapy, description of, 25:54902(P)
inventory of, computer program for, 24:46438
ionizing efficiency of isotopic, for elimination of electrostatic charges, 23:43637
jets from, properties of, (T), 23:21032
leak testing of sealed radium, use of ionization chamber to detect radon for, 23:14012
legislation for use of, by industries in France, 22:45592
legislation for use of, in Israel, 22:45593
lifetime of radioisotope, for gamma radiography, method for determining optimum, 25:57697
location of remote, scintillation detector system for, 23:19972(P)
location of, description of direction-finder for, 22:28115
location of, system for, 23:651(P)
measurement of standard, use of ionization chambers for, 21:26195
methods for handling, 23:43788
monitoring of industrial, in Great Britain, 22:45554
monitoring of sealed, for use in thickness gages, 22:45559
monitoring procedures for sealed, in containers, 24:21152
mounting of fission product, 22:12396 (AERE-R-5587)
natural and nonnuclear, comparison with contamination from nuclear power plants, 22:2230
operation of, for food irradiation, 21:9035 (CONF-661017)
packaging and shipping of large, design and testing of casks for, 22:289
packaging and uses of, in industry, 23:50045
packaging design for large, factors affecting, 22:290
packaging of large, review of methods for, 22:264
packaging of, automatic method for, 25:44575(P)
performance evaluation for radiation chemistry processing, 24:7473
performance evaluation for use in polymer chemistry, 24:7471
performance evaluation of, for use in radiation chemistry, 22:33430
performance of beta—gamma, in enhanced flotation of minerals by water, 23:29106
photon flux density from finite plane, use of matrix point kernel for, 25:40742
positioning in industrial radiography equipment, device for exact, 25:18567(P)
positioning of medical, design of equipment for automatic, 24:25227(P)
preparation by radioisotope-impregnation of inorganic carbide or oxide matrix in microsphere form, method for, 24:2402(P)
preparation for ionization of air in ventilation systems, 23:47716(P)
preparation for nuclear spectroscopic analysis, 23:35416 (KURRI-TR-10, pp 150-9)
preparation of alpha—photon, 25:54887(R) (BNWL-1308-6)
preparation of alpha—photon, by rf sputtering, 24:48220(R) (BNWL-1308-3)
preparation of encapsulated thulium-170 and -171 oxide, method for cold, 24:7596(P)
preparation of fibrous glass, containing uranium-235, uranium-233, plutonium-239, or uranium-235-enriched uranium oxide, 22:42979(P)
preparation of foil-type, from aqueous radioisotope solutions, 25:339
preparation of high silica matrix, 22:21293(P)
preparation of labeled albumin microsphere, 24:41918
preparation of metal-coated spherical, methods for, 24:16804(P)
preparation of radioisotope-containing microspheres for, method for, 24:14188(P)
preparation of sealed, at Philippine Atomic Research Center, 21:17667
preparation of spherical microscopic, using ion exchange resin beads, 25:2406
preparation of standard gaseous, equipment and method for, 22:16771 (CEA-R-3365)
preparation of thin radioisotope, electrostatic ion-optic method for, 24:39157
preparation of thin-film, electrostatic retardation methods for, 25:44534 (BMBW-FBK-70-28, pp 482-504)
preparation of thin-film, mechanism of electrospraying for, 24:33847
preparation of, method for, 24:22909(P)
processing of, engineering drawings for vacuum hot pressing equipment for, 21:6121
production and industrial uses of, abstracts of worldwide publications on, April to June, 1969, 23:50041 (ORNL-IIC-22(Pt.2))
production and reclamation of, 24:44027 (BNL-50205, pp 50-77)
production and sales of, 22:16637
production and testing for use in industry, sealed, 22:45577
production and testing of sealed, 23:29100
production and use in agriculture, geology, industry, and medicine in USSR, conference on, 24:19175
production and use in France, 21:45155
production and uses in Argentina, 22:33189(R) (NP-17470)
production and uses in German Democratic Republic, 24:14182
production and uses of fission product, developments in, 25:54887(R) (BNWL-1308-6)
production and uses of, 1969 status of USAEC projects on, 24:33846 (TID-25372)
production and uses of, developments in, Oct. 1 to Nov. 30, 1969, 24:7590(R) (ORNL-TM-2807)
production and uses of, Div. of Isotopes Development research on, 1967, 22:47294(R) (TID-24349)
production at Japan Atomic Energy Research Institute during 1969, 25:34804(R) (JAERI-Memo-4285)
production by Japanese Atomic Energy Research Institute Radioisotope Center, April 1967 to March 1968, 23:26455(R) (JAERI-5020)
production for radiation processing, economics of, 21:39146
production in Australia, facilities and methods for, 23:38180 (NP-17883)
production in COMECON states, review on, 25:4128
production in Czechoslovakia, 22:16634
production in USSR, equipment and methods for, 23:50056
production of alkali metal and alkaline earth isotope, by alpha bombardment of rare gases, 22:4207
production of cesium-137, design of plant for, 23:2483
production of particulate, 22:8164(P)
production of standard, problems in, 23:21975
production of, catalogue from Radiochemical Center, Amersham, England, 21:19712
properties of accelerator, for use in industry, 25:25581
protection against damage from, liability insurance for, 24:9856
protection standards for use of, for high school and undergraduate college demonstrations and experiments, 21:28438 (NCRP-32)
pulser for luminescence decay measurements of phosphors, 25:21479
purity of, beta and gamma spectrometry in control of, 21:5822
radiation effects on, review of, 24:48220(R) (BNWL-1308-3)
radiation from moving, characteristics of detection of, 25:18692
radiation intensity distribution from, device for measuring and displaying, 22:23362(P)
radiation protection of personnel and public from, during demonstrations, 22:45584
radiation protection programs of commercial producers of, in USA, evaluation of, 25:29527 (NP-18791)
radioisotopes in, estimation of content of single, 22:35996 (AD-662192)
radon leakage rate from radium, operation and calibration of low-level scintillation detectors for measuring, 23:38264
regulations associated with sealed, 23:15771
review of types of, 23:16853
safety standards for ionizing and non-ionizing, 24:34185 (CONF-690335, pp 57-71)
safety system for, fire, 25:37663(P)
safety testing of, USAEC—ORNL program for, 21:39148
selection of, for irradiating bulk materials, 21:16075
shielded chamber design for, 21:12568(P)
shielding cylindrical self-absorbing, in axial direction, 24:35521(T) (ORNL-tr-2319)
shielding, bibliography on, 21:7301 (ORNL-RSIC-5(Rev.1))
shipment in cargo and passenger aircraft, international regulations governing, 25:42456
shipment in cargo and passenger aircraft, international regulations governing, 25:42457
shipment of encapsulated, 22:45590
shipping container for, design of, 23:9690(P)
shipping of large, design and testing of container for, 23:21919 (AAEC/TM-480)
shipping of, fabrication and performance of lead shielded containers for, 24:29487
shipping of, IAEA regulations on, 22:28044
shipping of, packaging design for, 22:30813
shutter for irradiation facility, design of device for controlling, 23:29047(P)
standardization methods for, manual on, 25:26455
standardization of, international intercomparison for, 21:40473(R) (PR-P-74)
standardization of, methods of, 22:43063
standards for classification of sealed, 23:16044
standards for, development of US, 25:32131
standards for, validity of, 24:33844 (CEA-R-3975)
statistical effects of isotopic, for radiometric measurements, 23:41088
sterilization of sealed, for use in therapy, use of cetylpyridinium chloride for, 23:12170
storage container for, design of movable shielding gates for, 24:2360(P)
storage facilities for, safety standards for, 25:11078 (Y-1754)
storage in lead-filled trays, design of device to prevent damage during, 23:13955(P)
storage of, German legal requirements for, 21:41188
supply through IAEA, review of, 24:9860
support device for irradiation facility, 22:35982(P)
support films for radioisotope, preparation of thin parylene, 25:4329
survey of high-energy, for radiotherapy, 21:12929
survey of, used in radiography, 21:243
testing of, methods for nondestructive, 25:34803(R) (BNWL-1308-5)
transfer between storage containers, design of cable-actuated device for remote, 25:54983(P)
transfer system for, use of oil as transfer fluid in, 23:6253(P)
transport between cells, design of conveyer for, 22:47308(P)
transport of encapsulated, design and operation of pneumatic system for, 25:29319(P)
transport of, IAEA regulations for, 24:9862
use for biological studies, 21:32792
use for determining erosion in exhaust stacks, 22:10621(P)
use in agriculture, biological research, and medicine in Egypt, 24:44387
use in continuous-ionization method for gas flow rate measurements, 21:41076
use in deep water isotope current meter, 21:26064(R) (JLI-2748-86)
use in food preservation, 21:12557
use in industry, economics of, 21:3220
use in large-scale radiation-chemical processes, 22:19008
use in lightning rods, 22:23390(P)
use in measurement applications in engineering, 21:28176
use in production of negative ions for air conditioning systems, 23:19882(P)
use in radiation relays, 21:3330
use in sanitary engineering, 23:16040 (KURRI-TR-7)
use in water isotopic current meter, 21:22184
use of elongated, in radiometric measuring balance for weighing solids on conveyers, 21:41165(P)
use of ionizing, safety control methods in, 22:23535
use of large, in agriculture, industry, and medicine, review of, 22:23233
use of large, in Israel, 21:41150 (NP-16994)
use of large-anode-area, for radiotherapy, analysis of, 23:6551
use of radioisotopes for, in Czechoslovakia, 22:51337
use of sealed, for measuring velocity of solid particles in hydraulic conveyer system slurries, 25:37546
use of sealed, in industry, 21:10689
use of sealed, recommendations for protection of veterinary medical personnel against, 25:11075 (NCRP-36)
use of ytterbium-169 for, comparison with cobalt-60, iridium-192 and x ray, 21:6530
use of, on lightning rods to reduce hazards of lightning, 21:4807
use to control liquid deposition on sheets, 22:43133(P)
use with radiation detectors for direction finding, 22:10619(P)
use with scintillation detectors for examining various materials, 21:12701(P)
uses for therapy, review, 25:52132 (A/CONF.49/P-653)
uses in analysis, 22:33212
uses in chemical industry, contamination problems in, 25:44377
uses in European industrial countries, 23:38186
uses in French industry, 23:38204
uses in hydrology, 24:9605
uses in hydrology, 24:7502 (STI/DOC-10/91)
uses in industry and hydrology in India, 25:51612 (A/CONF.49/P-539)
uses in industry of large, 24:20960
uses in science and industry, conference on, 21:45318
uses in Sweden, review on, 25:6341(R) (NP-18571)
uses in West German industry, 24:44342
uses of high-level radioisotope, in industry and research, radiological problems associated with worldwide, 25:39652
uses of low-energy, conference on, 22:250 (ORNL-IIC-10(Vol.2))
uses of sealed, in geology and hydrology, review of, 25:37548
uses of small, in industry and research, 22:23232
uses of, based on capsule classification system, 23:38181 (ORNL-4427)
uses of, conference on, 21:45448
uses of, conference on, 21:45447
uses of, developments in, 22:16637
uses of, in processing biosynthetic drugs and foods, 21:9043
uses of, legislation relating to compensation for and prevention of damage resulting from, 25:46880
uses of, review of industrial, 23:50051
uses of, review on programs for, 24:46285

RADIATION STANDARDS AND UNITS
see also Phantoms
bibliography on regulations, standards, and guides for microwaves, uv radiation, laser radiation, and radiation from television receivers, 23:24615 (PHS-999-RH-35)
book: Basic Norms for Health Protection of the Population and Industrial Personnel Against Hazards of Ionizing Radiation, 23:6454
book: Legal Considerations on Ionizing Radiation, 21:6534
book: Problems of Distribution and Experimental Evaluation of Permissible Levels of Cesium-137, Strontium-90, and Ruthenium-106, 23:4902
calibration for use in whole-body monitoring of strontium-90 bremsstrahlung in experimental animals, 22:10827(R) (UCD-472-114)
classification of international, of ICRU, 25:11064
comparison of rad and roentgen, for dosimetry of radium-226 γ implants for therapy, 24:50909
compilation for dosimetry and radiation detection, National Bureau of Standards, 25:35137
conversion factors for expressing dosimeter readings in rems, 24:7854
conversion of dose rate data to Curie units, 21:6168 (TRG-Report-1287)
conversion of ion-chamber readings into absorbed dose in water, use of C/sub lambda/ for, 25:39870
data compilation on, 22:43130
definition for balneotherapy, 24:32000
definition of dose equivalent (Dq), rem, and valuation factor (q), 23:29501(T) (NRC-TT-1361)
definition of dose equivalent, for gamma-neutron radiation, 21:1766
definition of first collision dose and kerma, 23:38574
definition of Mer, benefit required to justify exposure of man to one rem, 25:49204 (UCRL-72848)
definitions of, 25:49203 (PHS-PUBL.-2016)
definitions of dose equivalent, linear energy transfer, quality factor, and reference dose, ICRP and ICRU, 25:42440
definitions of Dutch and ICRU, for dosimetry, 23:50525
definitions of quality factor, 25:58005
definitions of quality factor, 25:42441
definitions of rad and Rem, 21:3408
definitions of, for radiation protection programs, 25:42460
definitions of, IAEA (1967), 25:46862

definitions of, used in dosimetry, 25:44804
description of, 21:20228
description of, used in internal dosimetry, 21:10859 (CMN-Pub-2/65(Suppl.1))
determination for radioisotopes used in medicine, 22:12879
determination of factors for neutron fluence-to-kerma, for human body, 22:12846 (ORNL-TM-2079)
development at BIPM by international comparisons, 23:2568
development at CBNM of Euratom, 23:2567
development by professional groups in Germany, review of, 21:20212
development for measurement of ionizing radiation, 22:12491
development for national atomic energy program, 22:35200 (NBS-TN-283)
development for use in dosimetry, 21:22450
development of, 21:22006
development of curie and roentgen as, in Australia, review of, 23:31813
development of valid primary and secondary, international, 23:38174 (CEA-CONF-1238)
development of, for measuring energy flux in radiation fields, 21:12864
development of, industrial responsibility for, 22:22722
development of, problems in, 23:21975
development through Council for Mutual Economic Assistance of IAEA, 24:9847
energy equivalent of roentgen, calorimetric study of, 21:10609(R) (TID-23367)
evaluation for dosimetry for medical diagnosis, 24:7837
evaluation for use in calculations of maximum permissible radiation dose for personnel, 24:48563
evaluation of All-Union State Standard 8848-63 for, 22:49372
evaluation of ICRP, for supersonic flight, 21:18039 (ORNL-P-2597)
evaluation of Roentgen equivalent therapeutic (ret) for expression of nominal standard dose (NSD) for therapy, 25:42446
evaluation of roentgen equivalent therapeutic (ret), for dosimetry for therapy, 25:42413
evaluation of, defined in German Journal of Standards, 21:20222
evaluation of, for astronauts during space flight, 21:18057
evaluation of, for use in medicine, 21:12877
evaluation with respect to potential hazards to man and environment, 25:24435
factor of 700 for iodine-131 applied by AEC Division of Licensing and Regulation to annular release limits for halogens from power reactors, 25:13438
ICRU report on finances, publications, and relations with other organizations, 25:49209
legal aspects in Belgium, 21:26430
photometry and radiometry, 23:1164
preparation and storage of, 21:30352 (PHS-999-RH-27)
program at Pacific Northwest Laboratory, proposals for improvement of, 23:31774
program of Commonwealth X Ray and Radium Laboratory, 1969 annual report of, 24:31985(R) (NP-18121)
quality factor definitions, 25:42443
quality factor recommendations for low-energy β emitters in relation to RBE for tritium-labeled water, review of, 22:51632
quality factor, definition of, 23:45749
quantities used for yields of radioisotopes produced by charged-particle bombardment, 25:32008
recommendations of ICRU on, 23:4494 (ICRU-11)
recommendations of International Commission on Radiation Units and Measurements, 1968, 23:45774
standardization of, international cooperation on, 21:23811
training program on, 21:28426 (ANL-7291)
transfer of National Bureau of Standards absolute calibration, for measurement of high-energy beams, 21:19955
use for permissible dose calculations, 21:32629 (ANS-SD-4, pp 11-17)
use in dosimetry, review of, 22:10778
use of ber and equivalent rad, in Russia, 22:47537

RADIATION TARGET CANS
accuracy of CYRANO, for direct measurement of neutron-induced fissile sample power, 23:19523 (CEA-CONF-1118)
bonding to nitride fuel using sodium, bond analysis for oxygen, 23:39016 (BMI-1862, Sect.A)
calibration and design of, for testing fast oxide fuels, 23:39065 (BNWL-1058, pp 5.1-58)
closures for, design of leak-proof, 23:31454(P)
configuration for testing Type 304 stainless steel- and Incoloy 800-clad plutonium carbide (PuC)—uranium carbide (UC) and mixed plutonium carbide (PuC, Pu_2C_3)—uranium carbide (UC,U_2C_3), description of, 22:46923 (UNC-5219)
configuration of Dounreay Fast Reactor graphite-containing graphite-sleeved niobium-clad rod-shaped bundle-type, description of, 22:42392(T) (ORNL-tr-1968)
configuration of EBR-2, for metal-clad helium-bonded plutonium carbide (PuC)—uranium carbide (UC) pellet-type fuel elements, 22:39789 (UNC-5198)
configuration of Fast Test Reactor driver fuel testing, 23:4300(R) (BNWL-880)
configuration of FRG-1 and FRG-2 corrosion tests autoclave, description for 320°C and 115 atm of, 23:4381
configuration of gas-insulated and electric-heated, description of, 22:47033(P)
configuration of heat-activated sample support in dual-chamber, for irradiation temperature determination, 22:50856(P)
configuration of ORR IRG-3 in-pile graphite ignition experiment, description of, 23:6024 (ORNL-TM-2321)
configuration of pressure vessel-contained detector-monitored shielded, for testing of cladding failures, 22:42276(P)
description of controlled pressure-temperature, for uranium swelling measurements, 22:6136 (BNWL-SA-1377)
description of Cyrano capsules for high temperature—high power irradiation of samples, 23:9154 (CEA-R-3618)
description of ETR X-basket-2, for irradiation of coated uranium dioxide particles, 22:26082 (ORNL-TM-2097)
description of gas-filled stainless steel, for fast neutron effects on ceramic thermionic fuel rods in EBR-2, 22:25090 (LA-DC-9025)
description of reactor control rod-enclosed, for radioisotope production, 22:48774(P)
description of triple-walled capsule for irradiation testing of coated fuel particles, 21:18308(R) (BMI-1784)
description of water-filled, for heavy water-moderated reactors, 22:35616(P)
design and evaluation of, materials selection in, 21:19798 (CONF-660511-, pp 4.2.1-54)
design and fabrication for testing sphere-pac sol-gel fuels in EBR-II, 23:24973 (ORNL-4390, pp 3-33)
design and fabrication for use in EBR-II and TREAT, 25:6888 (BMI-1886, Sect. A)
design and fabrication methods for instrumented in-pile, 22:8708 (ORNL-4190)
design and fabrication of aluminum, for irradiation of explosives and propellants, 23:24359
design and fabrication of standarized, for use in French reactors, 21:19808 (CONF-660511-, pp 1.2.1-73)
design and fabrication of Type 304L stainless steel, 23:20530 (BMI-1857, Sect.A)
design and fabrication of, for in-pile testing of clad nitride fuels, 24:17391 (CONF-690910-, pp 637-51)
design and fabrication of, for in-pile testing of compressive creep of ceramic fuels, 24:34970 (BMI-1882, Sect.C)
design and fabrication of, for preirradiation creep testing of sintered plutonium oxide—uranium oxide fuels, 23:39038 (BMI-1862, Sect.C)
design and fabrication of, for water corrosion testing at 320°C and 110 atm, 24:16733(T) (CEA-tr-A-1990)
design and operation of isothermal, using heat pipes, 24:16734 (CONF-690910-, pp 184-96)
design and operation of low-temperature, with cryostat and helium refrigeration system, 24:27286 (KURRI-TR-69)
design and operation of sodium—potassium-filled natural convection circulating, for fast ceramic reactor fuel element testing, 21:19806 (CONF-660511-, pp 5.2.1-17)
design and performance of Cyrano, for irradiating fuels with high linear power, 25:44496
design and testing for irradiation of plutonium carbide—uranium carbide fuels, 21:1961 (UNC-5136)
design and testing of bismuth—lead filled Zircaloy-2, for irradiation of fuel pins, 22:28861
design and use in fuel element testing, 21:14106 (CEA-R-3041)
design for automatic pressure, power, and temperature cycling of thin clad fuel elements, 21:19804 (CONF-660511-, pp 4.8.1-9)
design for creep measurements on fast reactor fuels and structural materials, 25:44086(T) (EURFNR-853)
design for DIDO, PLUTO, and Dounreay Test Reactor, 21:19479
design for fast reactor mixed-carbide fuel irradiation, 22:53463(R) (UNC-5217)
design for fatigue specimen testing in EBR-II, 24:17326 (CONF-690910-, pp 24-37)
design for fracture specimens exposed in ETR, 24:34839(R) (BNWL-1091)
design for fuel element testing in Belgian Reactor 2, 25:40130 (EUR-4632)
design for fuel swelling testing, 25:52409 (KFK-1398)
design for gas buffered annular heat pipe using sodium and potassium working fluids, 23:9642 (UCRL-50510)
design for HGTR recycle fuel tests, 25:2791 (ORNL-4570, pp 195-200)
design for HTGR recycle fuel testing, 24:2985(R) (ORNL-TM-2765)
design for in-pile creep measurements of reactor fuel, 24:17388 (CONF-690910-, pp 165-83)
design for in-pile creep measurements on fuels and materials, 25:11464 (KFK-1281)
design for in-pile creep testing of fuel cladding under stress and thermal cycling, 25:13142
design for in-pile creep testing of mixed oxides, 23:50978(R) (BNWL-971)
design for in-pile creep testing of oxide fuels, 25:6890 (BMI-1886, Sect. C)
design for in-pile creep tests of Type 316 stainless steel, 24:14811 (GEMP-1013, pp 167-223)
design for in-pile cycling through axial tension and compression, 21:20538 (CONF-660511-, pp 1.5.1-17)
design for in-pile determination of fuel thermal conductivity, 23:46130
design for in-pile irradiation of explosive materials, 23:2461 (N-68-27049)
design for in-pile irradiation of graphite samples at 600 to 1600°C, 25:44495
design for in-pile testing of ceramic fuels, 25:775 (BNWL-1349-2, pp 3.1-55)
design for in-pile testing of manifolded—vented fuel pins, 25:2771 (ORNL-4570, pp 161-9)
design for in-pile testing of solid lubricants, 24:16740 (CONF-690910-, pp 742-58)
design for irradiating multiple fuel specimens at 550, 1150, and 1300°C, 21:19799 (CONF-660511-, pp 4.3.1-8)
design for irradiation of high-temperature materials with large flux variation, 21:20591 (CONF-660511-, pp 1.7.1-16)
design for irradiation of Settled Bed Fast Reactor fuels, 21:31900 (BNL-998)
design for irradiation system for cryogenic experiments in Plum Brook Reactor, 21:19807 (CONF-660511-, pp 1.8.1-22)
design for irradiation testing of reactor pressure vessel steels, 23:43130(R) (BNWL-1084)
design for irradiation testing of uranium nitride fuels, 23:13909 (ORNL-TM-2363)
design for isothermal irradiation of urania, 21:20594 (CONF-660511-, pp 3.1.1-6)
design for isotope production by fast neutrons in research reactors, 23:47248 (CNM-R-2(Vol.2), pp 909-26)
design for measurement of dimensional changes of fissionable samples during irradiation, 24:11889
design for molten fluoride fuel irradiation in ORR, 21:21761 (CONF-660511-, pp 3.5.1-4)
design for operation at 1000 to 1200°C, 22:12037
design for operation at 1600 to 2000°C, 21:19800 (CONF-660511-, pp 4.4.1-12)
design for radiation testing of carbide and oxide fuel elements, 25:49583
design for radioisotope production, 25:8429(T) (ORNL-tr-2400)
design for reactor fuel irradiation at high-temperature, 22:42491
design for Russian SM-2 reactor with means for temperature control during irradiation, 24:31104 (SRARI-P-56)
design for sample cooling during removal from hydraulic rabbit, 23:13919(P)
design for simultaneous measurement of electric conductivity and length, 24:46691 (CEA-N-1315)
design for SM-2 reactor, 25:44487(T) (LB/G-3026)
design for sodium-cooled fuel sample testing, 23:40924
design for studies of effects of fast neutrons on mechanical and physical properties of austenitic stainless steel, 25:40073 (ORNL-TM-3389)
design for studies of oxide fuel reactions with stainless steel cladding, 25:8835 (ORNL-4600, pp 57-64)
design for testing cladding materials in fast reactors, 24:36940 (ORNL-4520, pp 97-133)
design for testing HTGR recycle fuels, 25:19288 (ORNL-4629, pp 82-98)
design for testing LMFBR fuels during in-pile power cycling, 24:44816 (ORNL-4560, pp 62-6)
design for testing mixed plutonium nitride—uranium nitride fuels, 23:48503 (ORNL-4420, pp 40-70)
design for testing stainless steel clad mixed oxide fuel pins, 24:46080 (BNWL-1382)
design for testing uranium nitride, 23:51147 (UCRL-71703)
design for uniform temperature maintenance using heat pipes, 24:17327 (CONF-690910-, pp 157-64)
design for use in liquid sodium-cooled reactor, 24:26852(P)
design for water radiolysis, 24:16739 (CONF-690910-, pp 690-7)
design in France of research reactor, 24:47899 (CEA-CONF-1570)
design of 20°K in-pile, 21:44014
design of capsule-type, for in-pile creep testing of fuel and reactor materials, 23:20546 (BMI-1857, Sect.C)
design of controlled pressure—temperature, 22:4316
design of controlled-temperature and controlled-pressure, for swelling mechanism studies, 21:20535 (CONF-660511-, pp 3.4.1-19)
design of controlled-temperature, for nuclear reactors, 22:7904(P)
design of cooled, for simultaneous testing of several specimens, 23:24363(P)
design of double-walled, for irradiating materials, 23:17650(P)
design of electrically heated pressurized, for use in fast breeder reactors, 21:38590
design of fast reactor, 24:40892 (TRG-Report-1911)
design of finned, for uniform sample irradiation, 23:13920(P)
design of forced convection capsule for defected mixed oxide fuel testing, 23:37506(R) (GEAP-5677)
design of gas buffered annular heat-pipe, 23:45445 (UCRL-71889)
design of high-temperature, 21:35774 (BMI-1808)
design of HTGR-HFIR HRB5-1, for fast neutron effects on bonded bed pyrolytic carbon coated sphere shaped mixed oxides, mixed carbides, and zirconium oxide (ZrO_2), 23:28487 (ORNL-4353, pp 1-109)
design of HTGR-HFIR HT3, for fast neutron effects on bonded bed pyrolytic carbon coated sphere shaped zirconium oxide (ZrO_2), 23:28487 (ORNL-4353, pp 1-109)
design of improved, for reactor irradiations, 23:29050(P)
design of instrumented, for bonded bed coated particle fuel irradiation, 24:24835 (ORNL-4508, pp 3-70)
design of instrumented, for coated particle fuel irradiation, 24:4060 (ORNL-4424, pp 3-72)
design of instrumented, for fast neutron irradiation of reactor fuels and thermal insulation, 24:2340 (N-69-33273)
design of instrumented, for high-temperature testing of uranium dioxide fuels, 24:17390 (CONF-690910-, pp 631-6)
design of instrumented, for in-pile testing of nitride fuels, 24:44761 (ORNL-4560, pp 39-61)
design of instrumented, for measuring thermal conductivity of uranium dioxide pellets, 25:55088
design of instrumented, for sodium-bonded EBR-2 fuel rod testing, 23:15679(R) (UNC-5193)
design of instrumented, for TREAT testing, 23:48502 (ORNL-4420, pp 3-39)
design of liquid sodium cooled, for fast reactors, 24:40896 (TRG-Report-1911, pp 346-74)
design of liquid sodium cooled, for thermal reactors, 24:41051 (TRG-Report-1911, pp 338-45)
design of low-carbon stainless steel, for use in dynamic pressure environment, 21:19794 (CONF-660511-, pp 8.2.1-20)

design of Mark II, for use in Dounreay Fast Reactor instrumented irradiation tests, 21:22076
design of MSRE, for pyrolytic graphite and Hastelloy N specimens, 24:18656 (ORNL-TM-2743)
design of multiple hole ventilated and groove spaced, for test specimens, 23:40503(P)
design of ORTC-III, for in-pile compatibility testing of rhenium and rhenium—tungsten alloys, 23:24853 (GEMP-1008, pp 253-73)
design of pressure-temperature controlled, for nuclear reactors, 24:5783(P)
design of sample holder, for induction irradiation furnace, 25:51682(P)
design of single-pass sweep, for fission-gas release studies in the Oak Ridge Research Reactor, 21:19805 (CONF-660511-, pp 4.10.1-21)
design of splined aluminum, for beryllium testing, 21:20538 (CONF-660511-, pp 1.5.1-17)
design of stainless steel, for in-pile testing of uranium carbonitride and uranium nitride fuels, 24:36952 (ORNL-4520, pp 57-83)
design of stainless steel, for mixed oxide fuel testing in MTR, 22:50731 (GEAP-5556)
design of static liquid sodium cooled, for thermal reactors, 24:41050 (TRG-Report-1911, pp 310-37)
design of strain cycle No. 10 and No. 11, for GETR, 21:20536 (CONF-660511-, pp 1.3.1-9)
design of temperature-controlled, containing induction heater, 24:19128
design of temperature-controlled, for irradiation specimens, 24:7556(P)
design of test capsule for fast gas-cooled reactor fuel, 21:38463(R) (ORNL-4133)
design of thorium, for MTR heat transfer calculations, 21:35717 (IN-1102)
design of tungsten, for uranium dioxide testing, 22:36552 (GEAP-5100-10)
design parameters for ASTRA fast neutron, calculation of optimum, 23:52423
design parameters for coated particle fuels, 24:43757 (DP-Report-377)
design parameters for HBWR instrument test assembly PEI 306, 23:19504(R) (HPR-104)
design parameters for liquid metal, for swimming pool type reactors, 25:37061(T) (EURFNR-890)
design parameters for liquid sodium, for swimming pool type reactors, 25:37060(T) (EURFNR-889)
design parameters for swimming pool reactor, 24:46083 (CEA-R-3991)
design parameters for vertical mounted horizontal movement, 23:43154(P)
design parameters of BR-2, FR-2, and MZFR fast breeder reactor fuel element, 24:18653 (KFK-964, Sect. 10.1-14)
design parameters of calorimeter-containing CYRANO, 23:19523 (CEA-CONF-1118)
design parameters of FRG, 23:52420
design parameters of FRG, for use to 200 to 1000°C, 23:52421
design parameters of fuel element shaped square rod, with sealed central cavity, 23:47349(P)
design parameters of gas cooled coated particle fuel, 24:43754 (DP-Report-244)
design parameters of GETR liquid metal cooled forced convection, 24:18711 (CONF-690910-, pp 679-89)
design parameters of GETR liquid sodium bonded plutonium carbide (PuC)—uranium carbide (UC), 24:18712 (CONF-690910-, pp 733-41)
design parameters of helium insulated, for pool type research reactor, 25:39300(T) (LB/G-3013)
design parameters of HFR instrumented, 24:13595 (CONF-671224)
design parameters of instrumented plutonium carbide (PuC)-uranium carbide (UC) fuel, 24:18785 (CONF-690910-, pp 118-26)
design parameters of liquid metal cooled, for thermal reactors, 24:41049 (TRG-Report-1911, pp 287-309)
design parameters of liquid metal, for swimming pool type reactors, 25:3903 (CEA-N-1348)
design parameters of liquid sodium cooled, for high flux fast reactors, 24:40901 (TRG-Report-1911, pp 531-44)
design parameters of liquid sodium Odile, for pool type reactors, 24:43809 (CEA-N-1317)
design parameters of NASA Research Reactor instrumented gas cooled, 24:18703 (CONF-690910-, pp 197-209)
design parameters of NASA-ZPR-1 hafnium shielded uranium nitride (UN) pin type, 24:18704 (CONF-690910-, pp 210-20)
design parameters of ORR, 24:18734
design parameters of pool type research reactor, 25:39292(T) (LB/G-3004)
design parameters of pool type research reactor zirconium alloy, for water cooled uranium oxide (UO_2) fuel elements, 25:39293(T) (LB/G-3005)
design parameters of sodium filled, 24:36092
design parameters of thermal neutron research reactor, 25:18189
design to contain in-pile fission-energized chemical reactions, 23:507(P)
design with gas-filled heat barrier for nuclear fuels irradiation, 24:19135(P)
development, 21:21823 (CONF-660511)
development for fuel testing at 1300 to 1600°C, 24:23502(R) (BMI-1830)
development for operation at 1500 to 2000°C, 24:1062(R) (BMI-1870)
development for steel sample testing in FRG-1 reactor, 23:28567
development for use at Chalk River, 21:19792 (CONF-660511-, pp 8.5.1-12)
development for use in ETR and MTR at 1350°C, 23:36171(R) (BMI-1864)
development of TREAT, 24:18700 (CONF-690910-, pp 38-51)
development of EBR-2 reactor in-core control-rod-shaped, 23:11271 (ANL-7423)
development of instrumented lead—bismuth, for irradiation testing of fast breeder reactor fuel pins, 24:42295
development studies on fuel irradiation, 23:32068(R) (BMI-1854)
effects on reactivity of swimming-pool reactors, 21:14083 (NP-16432)
fabrication and testing of, 21:45321
fabrication and testing of, for use in production of radioisotopes in swimming-pool reactors, 21:45321
fabrication of DRAGON fuel specimen, for DR-3 reactor, 24:38595 (DP-Report-45)
fabrication of fuel irradiation capsule for EBR-2, 25:28687 (BMI-1898, Sect.A)
fabrication of fuel irradiation capsules for EBR-2, 25:44118(R) (BMI-1905)
fabrication of fuel-containing instrumented, for ETR and ORR testing, 23:48502 (ORNL-4420, pp 3-39)
fabrication of instrumented in-pile, brazing and welding methods for, 24:42082
fabrication of LV4, description of, 22:42490
fabrication of MSRE, for pyrolytic graphite and Hastelloy N specimens, 24:18656 (ORNL-TM-2743)
fabrication of plutonium dioxide—uranium dioxide-loaded, for irradiation testing in EBR-II, 24:36953 (ORNL-TM-2922)
fabrication of, for GETR tests, 22:38626(R) (WARD-3791-18)
failure in EWA reactor, system for detection of, 23:45107 (INR-1035)
failure of HFR, description of and safety procedures for, 23:2073 (RCN-99)
filling with fused alkali metals, method for, 24:44686
fission gas release from tungsten, containing uranium dioxide, 22:36552 (GEAP-5100-10)
flux levels in, effects of reactor core configuration on neutron and γ, 25:26016 (ANL/EBR-35)
fuel depletion and power levels in, methods of determining, 21:21758 (CONF-660511-, pp 6.4.1-31)
gamma heating of graphite and stainless steel, power generation from, (E), 25:51175
heat transfer analysis in SNAP, computer techniques for, 21:19837 (CONF-660511-, pp 2.4.1-9)
heat transfer annuli of, sodium filling system for, 23:20535 (ORNL-4350, pp 3-32)
heat transfer in, use of electric conductivity measurements for analysis of, (T), 22:42491
heating of sodium-filled, design of electric heaters for, 21:19795 (CONF-660511-, pp 7.1.1-52)
inspection of irradiated EBR-II, in Fuels and Examination Facility hot cells, 25:51783
instrumentation for measurement of dynamic phenomena of, in burst irradiation capsule experiments, 21:19984 (CONF-660511-, pp 8.3.1-32)
ionization chambers for ASTRA fast neutron, calibration and performance of, 23:52425
lead wires for, design of quick disconnects for, 23:9634(P)
lithium distribution in, wick control of heat-exchanging, 24:25761(R) (BMI-1823)
loading with fuel pellets, facility for, 22:43629(R) (LA-3933)
materials for, evaluation of fiber glass-reinforced epoxy and polyethylene, 25:43011 (N-71-16499)
neutron absorption levels in, (E/T), 25:1939 (SRARI-P-69)
neutron flux distribution in pool type research reactor, fast and thermal, 25:39298(T) (LB/G-3010)
neutron flux in pool type research reactor, method for measurement of fast, 25:39295(T) (LB/G-3007)
neutron flux in, filters for shaping of thermal, 25:54290 (N-71-17932)
neutron flux monitoring in water-cooled, by counting activation-induced nitrogen-14, 21:38677
operating experience of fatigue specimen, in EBR-II, 24:17326 (CONF-690910-, pp 24-37)
operating safety of single-walled NaK cooled capsules for irradiation of high-power fuel pins, 25:10257(T) (EURFNR-764)
operation of static liquid sodium cooled, in thermal reactors, 24:41050 (TRG-Report-1911, pp 310-37)
operation of water filled probe for reactor irradiation of corrosion inhibitors, 23:26090(T) (NP-tr-1755)
performance for irradiation testing of plutonium nitride—uranium nitride fuels, 21:18308(R) (BMI-1784)
performance in France of research reactor, 24:47899 (CEA-CONF-1570)
performance of liquid metal cooled, in thermal reactors, 24:41049 (TRG-Report-1911, pp 287-309)
performance of liquid sodium cooled, in fast reactors, 24:40896 (TRG-Report-1911, pp 346-74)
performance of liquid sodium cooled, in thermal reactors, 24:41051 (TRG-Report-1911, pp 338-45)
performance of pool type research reactor, for water cooled uranium oxide (UO_2) fuel elements, 25:39293(T) (LB/G-3005)
performance of pool type research reactor, for water cooled zirconium alloy fuel element cladding, 25:39294(T) (LB/G-3006)
performance of sodium filled, 24:36092
physics measurements for ASTRA fast neutron, 23:52424
physics measurements for NASA-ZPR-1 hafnium shielded uranium nitride (UN) pin type, 24:18704 (CONF-690910-, pp 210-20)
positioning in CP-5 reactor core, design of device for remote, 21:19803 (CONF-660511-, pp 4.7.1-8)
positioning in reactor core, design of device for automatic and remote, 21:19801 (CONF-660511-, pp 4.5.1-13)
positioning in reactor core, design of device for remote, 21:19802 (CONF-660511-, pp 4.6.1-7)
puncturing for fission gas analysis of irradiation fuel capsule, hot cell facility for laser, 24:5866
radiation effects on mechanical properties of polyethylene, at dry ice temperature, in-pile, 24:27900 (KURRI-TR-65)
radiation testing of instrumented plutonium carbide (PuC)—uranium carbide (UC) fuel, 24:18785 (CONF-690910-, pp 118-26)
service rigs for DIDO Reactors, description of, 23:11270 (AERE-M-2132)
shielding for, burnout of cadmium-113, 24:39207 (IN-1317, pp 233-381)
stopper-sealed tube-access, description of swimming pool reactor, 22:25120(P)
temperature control by liquid nitrogen in, at 15 to -196°C, 22:27795
temperature control during irradiation of, vacuum control method for automatic, 24:16764
temperature control during specimen exposure in, method for, 23:40921
temperature control in liquid-metal, 21:26861(R) (BNWL-CC-658)
temperature control in, by heat transfer through variable pressure gas gaps, 24:36454 (EUR-4478)
temperature control of, method for, 22:22850
temperature control of, method using thermal insulation of vacuum for, 23:29049(P)
temperature control of, methods for, 21:19839 (CONF-660511-, pp 4.1.1-24)
temperature control systems for FRJ-2 reactor, description of optimum, 22:42375
temperature distribution in sodium filled, 21:8048
temperature distribution in, during irradiation, computer program for determination of, 21:19838 (CONF-660511-, pp 2.1.1-10)
temperature measurement in, use of magnetized ferromagnetic transducers for maximum, 22:42528(P)
temperature monitoring devices for, in fast reactors, 24:40899 (TRG-Report-1911, pp 458-72)
temperature of, use of fusible metal thermometer to measure maximum, 21:30647
testing of aluminum, nondestructive method for, 23:17716
testing of, use of eddy current, ultrasonic, and x-ray methods for nondestructive, 21:19869 (CONF-660511-, pp 7.6.1-20)
thermocouples for, design parameters of remote actuated retractable and replaceable, 24:18709 (CONF-690910-, pp 652-68)
thermocouples for, design parameters of spring contact external commutator for enclosed, 24:18713 (CONF-690910-, pp 775-83)
welding of, methods for, 21:1872 (AERE-M-1801)

RADIATION TARGET CHAMBERS
(Mechanical devices used for nuclear reaction studies.)
beam position and stabilizer system for scattering, design and performance of, 21:6225
beam position stabilizer system for, automatic, 25:1695
collimating system for scattering, design of multipurpose, 21:4739
control and readout system for 64-inch scattering, design of digital, 22:39505 (N-68-14018)
control system for Argonne 70-inch, computer-based, 24:8768 (CONF-690301-, pp 321-5)
cooling system for semiconductor detectors for, 25:36634
description for Doppler shift studies with selected recoil directions, 25:20140
description for measuring charged particle—gamma angular distributions, 23:16077 (CEA-CONF-1155)
description for nuclear spin measurements using dynamically polarized proton target and backscattered neutron, 25:53481
description for Van de Graaff accelerator, 25:53444
description of gamma-/x-ray scattering, with semiconductor and scintillation detectors, 21:19907 (USNRDL-TR-67-14)
description of gas-filled scattering, with differential pumping, 21:3289
description of Harwell variable-energy cyclotron, for fission studies, 25:17647
description of RHEL PLA universal scattering, 23:30923(R) (RHEL/R-170)
description of scattering, for high-resolution and angular correlation measurements, 25:5506 (CEA-N-1232, pp 81-159)
description of, for charged photoparticle experiments, 24:47541
design and construction of, for studying nuclear reactions leading to three final particles, 21:4714
design and fabrication of scattering, for Karlsruhe isochronous cyclotron, 23:21214
design and fabrication using semiconductor detectors, 21:6266
design and operation of charged particle scattering gaseous, 23:17045
design and performance for three-body nuclear reactions, 23:42821
design and performance of vacuum, for nuclear reaction studies, 21:10627
design for 100-MeV proton scattering measurements using lithium-drifted germanium detectors, 24:5378
design for alpha spectroscopy of nuclear reaction products, 25:14841 (JINR-P13-5353)
design for angular distribution and correlation measurements, 23:46875
design for beam—foil spectroscopy, 25:15975
design for BOL nuclear detection system, 25:20201
design for coincidence measurements, 25:33927
design for electron scattering studies, 25:20211
design for fast neutron spectroscopy with proton-recoil polyethylene target and semiconductor detector, 24:36606
design for ion channeling studies, 25:17625
design for lifetime measurements of nuclear energy levels, 24:30647
design for low-yield neutron and gamma ray measurements, 25:17626
design for measurement of high energy photonuclear cross sections, 25:17624
design for measuring (p,n) threshold energies, 23:19026 (ANU-P-414)

design for Moessbauer effect studies following Coulomb excitation, 25:10863
design for Omega West Reactor, 21:19470 (LA-DC-8335)
design for photoalpha angular distribution measurements, 24:30652
design for production and fast separation of gaseous fission products, 24:30822
design for proton assymetry measurements in polarized deuteron reactions (d,p) with beryllium, 22:11755
design for radiation damage studies in metals, 25:17651
design for small-angle alpha scattering, 25:47994 (RT/ING-(71)3)
design for spectroscopy measurements, 25:28102 (ANU-P-502)
design for studying (γ,p) reactions, 25:20141
design for studying inelastic electron reactions with atoms at 50 to 150 keV, 25:3472 (CONF-700322-, pp 379-92)
design for studying ionospheric reactions, 22:48408
design for studying molecular beam scattering from single crystal surfaces, 25:23931
design for total proton cross section measurements, 25:20176
design for use with double-focusing magnetic spectrometers for nuclear scattering experiments, 21:28320
design for Van de Graaff accelerator, 24:1743(R) (COO-1120-88)
design for Van de Graaff accelerator for charged particle irradiation of materials, 25:12318
design of 4π precision, for three-body reactions, 24:28666
design of carbon-12, for polarization measurements of protons at 40 to 50 MeV, 24:13243
design of differentially pumped large-angle coincidence scattering, 23:10879
design of double scattering, for polarization measurements of ion beams, 24:45713
design of gaseous, scattering spectra line shape calculations for, 25:9924
design of gaseous, with Mylar window for studying nuclear reactions, 23:17039
design of inverted scattering, for angular correlation measurements, 22:50506
design of low-cost multipurpose, for nuclear- and solid-state-physics experiments, 25:50205
design of magnetic solenoid electron transporter for studying conversion electrons in, 24:26559
design of molecular beam scattering chamber, 24:25970
design of multiple-angle, for neutron elastic scattering and polarization measurements, 21:30091(R) (ANL-7210)
design of NAA 115-1, for SNAP 8 fuels, 21:21762 (CONF-660511-, pp 3.8.1-21)
design of positive ion camera for blocking and channeling studies, 24:38029
design of scattering, for coincidence and correlation studies of charged particle-induced nuclear reactions, 23:20065
design of scattering, for use with cooled large area lithium-compensated silicon detectors, 21:3299
design of scattering, with differential pumping, 23:49263
design of sliding cylinder type, for differential cross section measurements, 22:2420
design study for large-angle, 21:26292
design using nuclear emulsions for detectors, 21:6267
design using surface-barrier detectors, 25:28141
design with remote-positioning of silicon semiconductor detectors, 23:45530
design with solid state detectors mounted on movable arms, 21:360
detector array for heavy ion experiments in, computer-controlled multiple, 24:49646
development at Duke University, 23:1882 (WASH-1093)
development for angular-correlation and scattering experiments, 22:13927(R) (USC-136-132)
development for AVF cyclotron, 22:30048(R) (PUC-937-307)
development for measurement of nuclear lifetimes using Doppler-shift attenuation method, 23:19200(R) (COO-1468-3)
development for polarized gaseous targets, 23:1882 (WASH-1093)
development for studying point defects in solids by x-ray scattering, 21:19998(T) (UCRL-Trans-10090)
development for studying point defects in solids by x ray scattering, 21:19999(T) (UCRL-Trans-10092)
development of 20-in. sliding-seal, for magnetic spectrograph, 23:23746(R) (AECL-3257)
development of 20-in., for gaseous targets, 23:19253(R) (ORO-2972-80)
development of 40-in., with liquid nitrogen cooling of detector slate, 23:19253(R) (ORO-2972-80)
development of thin-walled spherical, 23:15346(R) (ORO-1316-70)
development of windowless, for gaseous targets, 22:22560(R) (ORO-1067-2)
development of windowless, for tandem Van De Graaff accelerators, 23:1929(R) (COO-1265-67)
development of, for neutron capture gamma ray spectroscopy, 21:6330 (IA-1082, pp 289-94)
development with gas target cell, 23:15346(R) (ORO-1316-70)
development with gas-jet system for rapid collection of recoil nuclei, 23:1880 (ORNL-4306, pp 22-45)
electron impact spectra in helium, errors in retarding field energy analyzer for measuring, 23:26620
gas target cell design for scattering, 23:21215
geometrical calculations for coaxial target—detector in, 25:38834
goniometer for, design of precision, 25:49058
magnet system for measurement of electron scattering at 180°, 25:36629
operation of 60-in., computer, 22:4455 (ANL-7355)
operation under computer control for simultaneous acquisition of multichannel spectra, 23:17103(R) (ANL-7481)
performance for large-angle atomic scattering measurements using axially symmetric magnetic fields, 24:6369
sample changer for neutron capture total gamma absorption, design of on-line computer controlled, 21:8650
scattering cross section measurements using semiconductor detectors in, effects of experimental techniques on spectra during, 23:16123
slit mechanism for scattering, design of low-background beam defining, 23:30900
target changer for, description of, 23:17084(R) (COO-1779-4)
use in measurement of angular and energy distributions of nitrogen-17 produced in gold-197 (N-15, N-17) reactions, 21:8579 (JINR-P13-2965)
RADIATION TARGETS
alignment for production of coherent bremsstrahlung by electron beams, 24:30643
analysis for californium-252, underwater fission detector for, 24:29528
analysis for tritium, equipment and method for, 23:16100
angular correlation experiments using gaseous, method for calculating effective solid angle in, (T), 22:32671 (USC-136-138)
assay of, physical methods for, 25:59640 (CONF-711002-, pp 272-82)
background problems in thin heavy-ice, for producing neutrons, 22:37254
beam current on, design of biasing system for measurement of, 24:6790
beam monitoring at Argonne ZGS, on-line computer, 23:28135
beam position on, detector system for determining, 23:22048(P)
book: Stable Isotopes: Sales and Loans of Isotopic Samples, Nuclear Targets, Isotopic Foils, and Moessbauer Absorbers, 23:6153
book: The Use of Hit Theory in Radiobiology, 23:5008
bremsstrahlung from thin diamond and silicon, collimation of monoenergetic, with linear polarization near 100 percent, 22:11619
bremsstrahlung production in thick, (T), 24:28504 (LA-4097)
bremsstrahlung production in thick, calculation of spectra for, 25:17618
bremsstrahlung production in, effects of thickness and Z on, (E), 25:17658
bremsstrahlung production on internal electron synchrotron, efficiency of, 23:13162
bremsstrahlung production on thick, electron cross section calculations for, 24:40658 (AD-701380)
bremsstrahlung spectra from silicon, effects of target thickness and collimation on, 23:5726
bremsstrahlung spectra from thick, at electron energies of 1 to 10 MeV, (T), 22:44754 (UCRL-50442)
burnout under influence of ion current fluctuations, design of automatic device for preventing, 22:39537
characteristics of tritium, lifetime and radiation-hazard, 25:53496
charge emission from accelerator, use as means of burst intensity and beam intensity monitoring, 21:38136
charge transport from, for monitoring proton beams, 21:41202 (CERN-67-17)
charged-particle beam reactions with, optimum design of experiments on exponential absorption in, 21:17864
charged-particle reactions with thick, differential cross sections from neutron spectra from, 24:30881
cold trap for high-pressure gas, design of, 22:10599
composition and quantity of, effects on Doppler shift attenuation measurements, 25:50578
compression of optically-pumped polarized helium-3, 25:53482
conference on accelerator, for producing neutrons, 22:37239
conference on polarized, 21:42502
conference on polarized, 21:21608
containers for liquid, at high pressures, for studying inelastic neutron scattering, 22:1576
containment of kilocurie tritium, at Berkeley 88-inch cyclotron, 24:1697 (UCRL-19304)
contamination from tritium, vacuum cartridge for containing, 22:48393 (ORO-3346-29)
control system for internal meson, for Argonne ZGS, 23:28088
control system for Stanford Linear Accelerator lithium hydride, 24:37998 (SLAC-PUB-753)
cooling device for, Peltier thermoelectric cascade, 25:37692
cooling of liquid hydrogen, methods for, 23:28083
cooling of polarized proton, design of horizontal cryostat for, 22:13381 (CEA-R-3172)
cooling system for pion production, at SIN cyclotron, 25:50450
cryogenics for, development in, 25:43735
cryostat design for electron irradiation of semiconductor, 24:13251
cryostat for dynamic polarized proton, 24:37408
cryostat for polarized proton, 25:5456 (LA-4465, pp 33.1-2)
cryostat for polarized proton, 0.4 K, 25:53479
cryostat for polarized proton, design of vertical-type, 23:44764
cryostat for Van de Graaff accelerator, for electron damage luminescence studies, 24:47535
cryostats for polarized proton, design of continuous flow horizontal, 22:15896
crystal structure of tritium-impregnated metal, for neutron production, 22:26762(R) (NP-17412)
cycling system for total cross section measurements, automatic, 25:28115 (PURC-4159-17)
damage effects on magnesium lanthanum nitrate, from 146-MeV protons, 21:46147
description, 23:21218
description in living cells, review of, 22:49535
description of, 25:36622
description of beryllium-9, for fast neutron production by (He-3,n) reactions, 22:37238
description of beryllium-9, for neutron production by (p, n) reactions, 22:37255
description of frozen polarized proton, 25:53480
description of gaseous, for studying nuclear reactions, 21:33837
description of lanthanum magnesium nitrate polarized proton, for high energy physics, 21:19119
description of lanthanum—magnesium—nitrate polarized-proton, 21:21353
description of Mega gauss Cnare, for production of high-energy magnetic bremsstrahlung, 22:22516
description of polarized proton butanol or glycol, 24:35761
description of radioisotope, used for nuclear research in USSR, 23:26473
description of SLAC liquid hydrogen, 25:50474
description of solid multilayer tritium, for d—T neutron generators, 23:3881
description of thin-walled liquid hydrogen, 22:20390
description of tritiated, for high-flux 14-MeV neutron production, 22:37248
description of uranium, in mica track detectors for studying ternary fission, 25:45857
design and construction of, 24:4303(R) (NYO-910-124)
design and construction of hydrogen, for two-meson (π^0) photoproduction on proton experiments, 23:25726 (LNF-68/70)
design and neutron yield of heavy ice and deuterium, 23:42811
design and operation of atomic hydrogen, for precision scattering cross section measurements, 23:32128
design and operation of liquid hydrogen, using mechanical refrigerator, 25:28138
design and operation of track-sensitive hydrogen, inside neon—hydrogen bubble chamber, 22:368
design and performance of beryllium-9 cyclotron, for producing fast neutrons, 22:37257
design and performance of deuterated plastic, for neutron generation, 24:3822
design and performance of erbium and titanium tritide, for neutron production, 22:37243
design and performance of oil vapor, for transformation of atomic and ion beams, 24:15750
design and performance of pulsed gas, for conversion of atoms to ions for identification, 24:28659
design and performance of rotating heavy-ice, for 14.5-MeV proton production, 22:37252
design and performance of thick, for electroproduction of muon beams, 23:19107
design and preparation of high-current, for ion accelerators, 21:31675
design and testing of deuterated polyphenyl, for production of neutrons in (d,n) reactions, 23:21217
design and use for beam monitoring at Brookhaven AGS, 23:28086
design for absolute determination of 14-MeV neutron yields from deuteron reactions (d,n) with tritium, 22:7630 (SC-RR-67-346)
design for CERN 600-MeV proton synchrocyclotron for isotope separation, 22:29803
design for cyclotron for radioisotope production for medical use, 25:17644
design for cyclotrons for radioisotope production, 25:17650
design for electron—positron conversion in Saclay linac for positron acceleration, 24:24474
design for Harwell variable-energy cyclotron, for radioisotope production, 25:15703
design for IPhPE cyclotron for radioisotope production, 25:17645
design for linear accelerator, 21:37971
design for measurement of meson stopping in gases, 24:15713(T) (CERN-Trans-69-29)
design for monitoring shutdown reactors, 21:5713(P)
design for negative heavy ion source, 23:42792(T) (NP-tr-1829)
design for neutron generator, 22:9769(P)
design for radioisotope production, 25:8429(T) (ORNL-tr-2400)
design for use in reactors at 20°K, 22:39003
design for utilization of extracted proton beam of 300-GeV synchrotron, 22:32268 (CEAL-2000, pp 183-9)
design of absorbed deuterium—tritium, for neutron generators, 25:56626(P)
design of air cooled uranium, for use in STSF neutron spectra measurements, 25:8116(R) (GA-9027)
design of beryllium wire, for measurement of Brookhaven AGS beam density distributions, 23:28159
design of butanol polarized proton, 23:30905
design of butanol polarized proton, at Stanford Linear Accelerator, 24:45708
design of circulating liquid metal, for proton synchrotron for producing short-lived radioisotopes, 22:30115
design of copper, for production of uniform bremsstrahlung fields, 24:38030
design of cryogenic solid hydrogen, for nuclear physics, 25:33925
design of cyclotron, for neutron production, 22:37249
design of deuterium, for fast-neutron production, 21:44474 (UCRL-17675)
design of deuterium- or tritium-evolving hydride, for neutron generators, 21:28142(P)
design of differentially pumped gas, 25:17620
design of differentially pumped tritium gas, for fast-neutron cancer therapy, 25:50599 (CONF-710402-(Vol.2), pp I.56-60)
design of electron linear accelerator, for x-ray production, 22:15911(P)
design of external, for Princeton AVF cyclotron, 23:28081
design of furnace for high-temperature, 25:20212
design of gas, using cryogenic pumping, 25:36626

design of gas, with built-in slit geometry for charged-particle scattering experiments, 23:17047
design of gaseous boron-10 or boron-11, 23:49265
design of gaseous tritium, 23:28246(R) (USC-136-146)
design of helium-cooled liquid hydrogen, 22:39004
design of high intensity gas, 22:32961 (ANL-7310, pp 377-430)
design of high pressure gas, cooled by liquid nitrogen, 25:20128 (IFVE-SEF-70-22)
design of high-neutron-yield uranium, used at BCMN electron linac, 22:37250
design of high-power hydrogen, for Stanford Linear Accelerator, 23:23586
design of high-power positron conversion, for electron linear accelerator, 21:38114
design of high-power windowless gas, for neutron production by accelerators, 21:38113
design of high-pressure cooled gas, for electron scattering measurements on rare isotopes at approximately 100 MeV, 23:44762
design of high-pressure gas, 25:50215
design of holder for low-temperature electron irradiation of metallic resistivity specimens, 24:13240
design of hydrogen gas, for x-rays from mesic atoms, 25:46640
design of internal meson for Argonne ZGS, 23:28087
design of ion implantation, for electromagnetic isotope separation stage, 24:25207 (AERE-R-6330)
design of lead—bismuth, for producing high-flux thermal neutrons, 22:1517 (AECL-2750)
design of lead—tantalum composite, for fast neutron production, 22:32375
design of liquid deuterium, for D(p,n) neutron source, 25:20187
design of liquid deuterium—hydrogen, 22:15876 (DESY-67/44)
design of liquid hydrogen, 21:7618
design of liquid hydrogen, 25:1686(P)
design of liquid hydrogen and deuterium, 24:30619
design of liquid hydrogen, for neutral-final-state interaction point localization by Cherenkov effect, 23:17801
design of liquid hydrogen, for Stanford Linear Accelerator, 23:28084
design of mechanically-refrigerated liquid hydrogen, for Argonne ZGS, 22:46655
design of medium size polarized proton, of magnesium lanthanum nitrate, 24:45712
design of megagauss, at SLAC, 25:50475
design of molten lithium, for meson production, 22:1517 (AECL-2750)
design of molten-lead, 22:5702(P)
design of multiplex, for angular distribution measurements in high background field, 25:33890 (JINR-P13-5699)
design of polarized cobalt-59, 24:37977 (AD-703241)
design of polarized cobalt-59, for polarized and unpolarized fast neutron scattering studies, 24:26558
design of polarized cobalt-59, for spin—spin interaction studies for polarized fast neutron scattering, 24:13250
design of polarized proton, 21:42514
design of polarized proton, using solid effect, 21:9870 (AERE-R-5328)
design of polarized, for neutron—proton scattering at 23 MeV, 21:42512
design of polarized, for spin correlation with proton beam, 21:42512
design of precision liquid hydrogen, for high-energy total cross section measurements, 25:12300 (JINR-P8-5212)
design of refrigerated gas, for 180° electron scattering studies, 24:10881
design of refrigerated liquid hydrogen, for Argonne ZGS, 23:28085
design of regenerative deuterium and tritium, for neutron sources, 21:25420(P)
design of rotating and stationary, for medium- and high-power accelerators, 25:3474 (CONF-700322-, pp 431-9)
design of rotating deuterium—tritium, for 500-keV accelerator, engineering drawings for, 22:14634
design of rotating film, 25:25559 (JINR-E13-5621)
design of rotating vacuum seal and anode, for high-intensity low-energy x ray production, 23:50211 (UCRL-18667, pp 343-80)
design of rotating, for conversion electron measurements, 23:44758
design of rotating, for producing high-flux 14-MeV neutrons, 22:37253
design of secondary-particle, for meson (π) interactions, 25:20153
design of shortened charge-exchange gas, 25:31065
design of small liquid deuterium or tritium, 23:49264
design of stretched foil, 21:19126
design of tantalum followed by beryllium, for ORELA neutron source, 24:26546 (ORNL-TM-2925)
design of thick, for electron linac for neutron production, 24:52247 (IAE-1737)
design of thin internal synchrotron, for production of tagged photon beams, 25:1696
design of thin parallel-walled liquid hydrogen, 23:30903
design of thin-walled liquid hydrogen, 23:27915
design of thin-walled liquid hydrogen, (E), 21:1688
design of tritium gas, for production of 10^{13} n/sec, 25:26883
design of tritium gas, for production of monoenergetic neutrons, 25:36633
design of tritium, for 14-MeV neutron production, 22:23292
design of tritium, for neutron production, 23:49311(P)
design of tungsten, for bremsstrahlung production by 10-MeV electrons, 25:38817 (RISO-M-1261)
design of twin, for measuring nuclear lifetimes by Doppler shift attenuation method, 22:39527
design of water-cooled, 22:9747(P)
design of windowless gas, optimization of, 25:20185
design parameters for polarized proton, 23:23594
design proposal for polarized neptunium-237, 25:53478
design study for circulating liquid, 21:30697 (RHEL/R-136, pp 131-51)
design study of deuterium gas, using rotating foil for neutron production, 22:37246
deterioration of tritium—titanium, under deuteron bombardment, (E), 22:18158
deuterium diminution in proton synchrotron polyethylene, mass-spectrometric measurements of, 25:29400
deuteron electronic stopping cross sections in titanium, 25:50271
deuteron reactions (d,n) in copper single crystals, anisotropic yield for, (E), 23:39926
development at Bonn, Jan. 1 to Dec. 31, 1966, 22:48509(R) (BMwF-FBK-68-22)
development for neutron production, 22:37245
development for production of fast neutrons, 21:19152(R) (TID-23685)
development for production of polarized deuterons and protons, 23:44799
development of butanol polarized deuteron, 25:50268
development of deuterium and liquid tritium, 23:42814
development of differentially pumped gaseous, 22:11944(R) (AECL-2780)
development of dynamic polarized proton, 25:38824
development of dynamic polarized proton, using polyhydric alcohols doped with chromium complexes, 25:31046 (RHEL/R-213)
development of electron-beam, for fast neutron spectrum studies using pulsed-source time-of-flight method, 23:13183 (RPI-328-142, pp 68-116)
development of gaseous, 22:1598(R) (COO-1265-49)
development of high-current hydrogen-isotope, for positive ion accelerators, 21:38112
development of large-volume polarized helium-3, 25:31071
development of lead and lead-tantalum, for electron-beam neutron sources, 21:42524 (RPI-328-97, pp 35-95)
development of liquid hydrogen and polarized proton, 21:33810 (RHEL/R-144, pp 41-59)
development of liquid hydrogen, at Cambridge synchrotron, 24:6781
development of long-lived, for neutron production, 22:20370 (KN-67-655(R))
development of long-lived, of endothermic materials for neutron production by accelerators, 22:5690
development of optically pumped polarized gaseous helium-3, 23:1882 (WASH-1093)
development of optically pumped polarized helium-3, 23:15346(R) (ORO-1316-70)
development of polarized helium-3, 25:31072
development of polarized helium-3, 25:31077
development of polarized helium-3, 25:31075
development of polarized helium-3, 25:31076
development of polarized liquid and solid, by optical pumping, 25:33913(P)
development of polarized proton, 21:33807 (RHEL/R-129, pp 45-77)
development of polarized proton magnesium lanthanum nitrate, for neutron scattering measurements at 23 MeV, 24:38026
development of polarized proton, for studying low-energy nucleon—nucleon interactions, 21:21137
development of polarized proton, of frozen porphyrexide-doped aqueous solutions of glycerol, 25:5466 (RPP/A-81)
development of polarized proton, of frozen porphyrexide-doped aqueous solutions of glycerol, 25:5463 (RHEL/R-199)
development of polarized proton, of neodymium-doped lanthanum magnesium nitrate crystals, 25:20135 (RHEL/R-201)
development of rotating, for neutron production, 21:21324 (UCRL-70183)
development of rotating, for producing radioisotopes in cyclotrons, 24:15751
development of rotating, for radioisotope production, 24:52563(R) (NP-18217)
development of Stanford cryogenic oriented, 22:35166(R) (AD-663169)
development of stationary, for producing radioisotopes in cyclotrons, 24:15752
development of tritium, for fast neutron production, 25:5503(P)
development of tritium, for T (d,n) neutron sources, 25:20134 (ORNL-4584, pp 187-97)
development of uranium, at CBNM linac for neutron production, 22:39522
development of water-cooled, for intense ion beams, 21:19095 (NYO-3822-1)
dose distribution calculations for, 24:44027 (BNL-50205, pp 50-77)
drive mechanisms for, for extraction of secondary beams from Bevatron, 21:29677 (UCRL-17278)
efficiency of frozen toluene as polarized proton, 21:37653(R) (UCLA-34-P-106-1)
efficiency of internal cyclotron and synchrocyclotron, calculation of, 25:12324
efficiency of thick internal, for alternating-gradient proton synchrotrons, 22:32340 (CEAL-2000, pp A106-8)
electric charge buildup on surface of dielectric, negative-ion bombardment to alleviate, 23:39876
electron beam focusing properties for betatron, 22:44552
electron beam scattering from thick, Monte Carlo simulation of 5- to 40-keV, 21:33131
electron dose distribution in cylindrical and multilayer slab, computer methods for calculation of, 23:48698 (CONF-690805-3)
electron energy loss in thick lead and tungsten, relativistic, (E), 25:49963
electron interactions with, neutron yields from, (E), 22:18557 (GA-8087)
electron reactions at 1 to 6 GeV with, effects of target thickness and collimator angle on bremsstrahlung production by, 22:5683 (DESY-67/29)
electron reactions at 2.0 to 4.0 MeV and 24.5 MeV, positron production conversion yield in, 22:24762
electron reactions with thin, at 3.5 MeV, magnetic analysis of Compton electrons produced by bremsstrahlung from, 23:38309
electron scattering from accelerator, effects on shielding at high energies, (T), 22:31895
electron scattering on, secondary electron emission yields from, 21:43833
electron to positron conversion yields in thick, (T), 24:13218 (FR-68-1/1)
electron transmission through layers of, calculation of secondary electron spectra buildup in, 24:44970 (EUR-4452, pp 595-613)
evaluation of thin-film isotope production, by electron microscopy, 24:19165(R) (ORNL-TM-2889)
fabrication and irradiation testing of HFIR, 21:14087 (ORNL-3970, pp 179-84)
fabrication and testing of deuterated and tritiated polyphenyl, for neutron production, 23:37036 (EUR-4276)
fabrication and testing of tritiated titanium, for optimal generation of 14-MeV neutrons, 25:45863
fabrication by aluminum—neptunium casting, (E), 22:8702 (BNWL-519)
fabrication for HENRE, method for, 23:531 (ORNL-4308)
fabrication for HFIR at TRU, 23:8340 (ORNL-4370, pp 193-7)
fabrication for HFIR, remote equipment for, 21:6775
fabrication of accelerator, methods for, 25:59636 (CONF-711002-, pp 101-7)
fabrication of actinide oxide-containing, method for, 21:26788(P)
fabrication of all-metal gaseous, methods development for, 23:10936(R) (COO-535-591)
fabrication of beryllium-faced porous, 21:32935(R) (ORO-2891-6)
fabrication of europium-152, methods for, 23:3035
fabrication of large surface area, mechanical and electrolytic methods for, 24:28660
fabrication of large-area, method for, 24:41615(R) (ORNL-TM-3089)
fabrication of metallic hydride, for neutron production by (d,n) reactions, 23:52058(P)
fabrication of nitrogen-15, for high-energy electron scattering, 21:25380
fabrication of polarized proton, process for soldering quartz backing to copper cryostat for, 23:44773
fabrication of self-supporting osmium, 24:30626
fabrication of thin, from separated isotopes by electrolytic and vacuum deposition, 23:34693
fabrication of thin-film, 21:6778
fabrication of tritium, by sorption on rare earths, titanium, or zirconium, 24:41615(R) (ORNL-TM-3089)
fabrication of tritium, for high-yield neutron source, 25:59670 (CONF-711002-, pp 166-80)
fabrication of tritium-impregnated titanium, 22:37241
fabrication of, design and operation of ORNL facility for, 25:6520 (ORNL-TM-3225)
fabrication using high-vacuum evaporation, 21:40429(R) (RLO-1388-23)
failure of natural uranium, contamination and radioprotection problems resulting from, 25:56582 (CEA-R-4188)
failure of uranium, contamination resulting from, 25:53407 (CEA-CONF-1766)
failure testing of liquid-hydrogen, 24:5109
fission-fragment ranges in uranium-235 coated pyrolytic graphite, 21:38769
geometry calculations for detector—, computer program for solid angle and angular acceptance, 25:9910 (LUSY-7007)
geometry in angular correlation experiments with gas, calculation of effective solid angle, 22:50508
goniometer for CEA, design and operation of, 23:28089
handling system for 200-GeV proton accelerator, design of remote maintenance equipment for, 25:53458
handling systems for accelerator, design of remote-control, 23:15323
heat transfer through thin rotating, calculation of, 22:29802
heating system for liquid metal, up to 900°C, for neutron scattering measurements, 22:20381
holder for 14-MeV neutron, design of three-dimensionally rotating, 22:4516
holder for radioactive, design of, 22:53169(R) (PPAD-647-D)
holder for spherical, for uniform irradiation, 24:35763
holder for, design for uniform irradiation, 22:4336(P)
holder for, design of rotating, 23:10894(P)
holder for, design of rotating windmill-type, 23:7205(P)
hydrogen condensation in, testing of refrigerator for, 24:5121
hydrogen diminution in proton synchrotron polyethylene, mass-spectrometric measurements of, 25:29400
implantation in copper drive-in, associated-particle study of deuterium, 25:50204
inspection of failed HFIR, 22:8744 (ORNL-4170, pp 184-91)
instruments used with tritiated titanium, in production of 14-MeV neutrons, 23:37037 (EUR-4286(Pt.1))
ion beam reactions with insulator, at 40 to 70 keV, x ray production by positive, 22:50507
ion optical condensor structure for, 24:38024
irradiation in reactor cores, optimum volume of sample positions for, (E/T), 25:12829
krypton-85 incorporation in solid, ion bombardment system for, 24:22041
lifetime of tritium—titanium, for T(d,n) reactions for neutron source, 23:3871
lifetimes of erbium tritide and titanium tritide, effects of 300-keV deuterons on, 22:1518 (AWRE-O-52/67)
magnet coils for polarized proton, 22:21352
maintenance of LAMPF, remote control system for, 23:3873

materials for polarized, for nuclear experiments, 22:9436
microstructure analysis of erbium deuteride film, for neutron generators, 22:20384
moderators for pulsed neutron, optimization of, 22:37256
neutron absorption and multiple scattering in thin, Monte Carlo calculation of thermal, 23:30917
neutron energy and angular spectra from HENRE, 24:33096
neutron flux calculation near neutron generator, 24:26579
neutron flux distribution in vicinity of, during neutron irradiation by a neutron generator, (T), 25:50616
neutron flux distribution near, in neutron sources, (T), 21:11937
neutron inelastic scattering from cylindrical, multiple scattering correction for, 24:30893
neutron moderation in heavy element assemblies, optimization of, 22:35285(R) (AERE-PR/NP-13)
neutron producing lifetimes of water-cooled lithium fluoride, 21:19095 (NYO-3822-1)
neutron yield of tritiated titanium, rate of decrease of, 23:21184(T) (NP-tr-1731)
nuclear orientation in, review of thermal equilibrium, 21:17413
nuclear polarization in, methods for obtaining, 21:42504
nuclear reactions in single-crystal, channeling effects on yields from, (E), 21:34050
operation of track-sensitive deuterium, for neon-hydrogen bubble chamber, 23:20002
operational characteristics of titanium tritide, for neutron generators, 24:47555
orientation by beam excitation, 24:13235
orientation of monocrystal, in vacuum chamber of 1.53-GeV electron synchrotron, design and performance of goniometer for, 23:3885
oscillation and rotation of, equipment for, 21:219(P)
particle energy losses in thick, computer program for calculating light, 24:51383 (LA-4443)
particle scattering by thick, energy loss corrections for multiple, 22:29804
particles from, quadrupole lens for focusing secondary, 22:35180(P)
performance and uses of polarized proton and deuteron, 24:26571
performance in HFIR, 24:2896 (ORNL-4470, pp 163-7)
performance in HFIR, 25:2792 (ORNL-4570, pp 201-4)
performance of beryllium, carbon, heavy water, and lithium, for radiotherapy, 25:49173 (CONF-710402-(Vol.2), pp II.7-15)
performance of betatron, for production of bremsstrahlung, 23:15312
performance of deuterium-enriched metal film, for neutron production by D(d,n) reactions, 22:37244
performance of lanthanum magnesium nitrate polarized proton, for neutron polarization, 24:15728
performance of magnesium lanthanum nitrates as polarized proton, evaluation of, 22:24532 (JINR-E1-3708)
performance of polarized proton, as neutron polarizer, 24:13214(T) (BNL-tr-295)
performance of polarized proton, for ZGS, 21:29780
performance of tritiated polyphenyl, for producing neutrons at 14 MeV by deuteron reactions (d,n), 24:30629
performance of tritiated, in sealed-tube for 14-MeV neutron production, 22:37247
performance of tritium and deuterium, for producing low-energy pulsed neutrons, 22:37251
performance of, design of target current integrator with digital readout for wear grade measurements for, 21:28326
photon interactions at low energies, theorems for Compton, 21:37737
photon reactions with thick, Monte Carlo calculations of electron production in, 25:50573
polarization measurement of polarized, method for, 24:26549
polarization measurements of helium-3, pulsed NMR method for, 25:53483
polarization measurements of oriented hydrogen, method for, 25:36645
polarization of helium-3, methods for measuring, 25:31074
polarization of optically-pumped helium-3, effect of absorption of pumping light on degree of, 25:53484
polarization of proton, in solids, 21:21352
polarization of proton, NMR measurement of, 21:21354
polarization of solid, methods for dynamic, 25:53460
polarization rates in helium-3, 25:31073
polarization reversal by adiabatic fast passage in polarized, 21:42518
polarized ^{3}He, implications of surface-induced nuclear spin relaxation studies for, 23:12969
polarized, use in neutron spectrometry, 23:47037 (BNL-13624)
positioning device for, design of, 25:1702(P)
positioning device for, of external beam from accelerators, 23:17036(P)
positioning in AGS for secondary beam production, description of Mark II and Mark IV manipulators for, 21:38115
preparation and measurement of thin films of poly(vinyl acetate)—poly(vinyl chloride), 23:27926
preparation and operation of nonboiling liquid hydrogen accelerator, 21:5442
preparation and performance of implanted tritium, for studying (d,n) reactions, 24:47536
preparation and processing for radioisotope production, 25:29275
preparation and use of, cold target techniques for, 23:44759
preparation by heavy-ion sputtering, 25:59637 (CONF-711002-, pp 109-15)
preparation by ion deposition and implantation, 25:57650 (CONF-711002-, pp 10-20)
preparation by vacuum sputtering of thin films, design and performance of duoplasmatron ion source for, 21:35370
preparation for transuranium element production, 24:2896 (ORNL-4470, pp 163-7)
preparation from powder by centrifugation in liquid paraffin, 25:2655
preparation in ORSIS sector separator, methods for, 24:19165(R) (ORNL-TM-2889)
preparation of actinide metal, by casting, 25:59634 (CONF-711002-, pp 59-69)
preparation of actinide, by electrodeposition on aluminum, 25:25604
preparation of actinide, for accelerator bombardment and cross section measurements, 25:49384 (UCRL-73121)
preparation of alpha-active, by vacuum evaporation, 25:59638 (CONF-711002-, pp 116-21)
preparation of aluminum and carbon ultrathin film, 22:29799
preparation of beryllium, for thermal neutron production with high current ion accelerators, 21:37985
preparation of carbon—nickel foil, for recoil studies, 24:22075(R) (NYO-2771-36)
preparation of carbon-12, 24:38034
preparation of chromium, for proton scattering measurements, 25:1694
preparation of deuterated palladium and titanium, for neutron production, 22:11746 (CEA-R-3065)
preparation of deuterated polyethylene, 24:38035
preparation of deuterium and tritium, methods for, 25:53743(R) (INR-1318)
preparation of europium-152, by vacuum reduction and distillation, 23:1881 (ORNL-TM-2364)
preparation of flat nickel foil backings for recoil-distance lifetime measurements, 24:30648
preparation of gaseous isotopic boron, 24:5377
preparation of high-purity isotopic, methods for, 23:531 (ORNL-4308)
preparation of high-purity plutonium-238, 23:1881 (ORNL-TM-2364)
preparation of isotopic bismuth and lead, method for, 21:13773
preparation of large surface uranium dioxide, by spontaneous deposition, 23:8895
preparation of lithium, 23:44760
preparation of magnesium and ytterbium, by directional evaporation in high vacuum, 21:33835
preparation of magnesium-24, ion retarding method for, 21:17231
preparation of metal-foil, electrolytic method for, 25:22036
preparation of monoisotopic hafnium, titanium, and zirconium, 23:3880
preparation of polarized dense gaseous or liquid helium-3, 21:42510
preparation of polarized proton, 22:1336
preparation of polarized proton ammonia, 24:35757
preparation of polarized proton, for use in high energy physics, 21:11888
preparation of polarized proton, from hydrocarbons doped with free radicals, 21:37974
preparation of radioactive and stable, methods for, 25:59635 (CONF-711002-, pp 91-100)
preparation of radioactive xenon, in aluminum foil using Cockcroft—Walton accelerator, 23:49288
preparation of radioisotope, design of vacuum glove box for, 25:8453 (ORNL-TM-3209)
preparation of radium, 21:6779
preparation of rare earth metal, by electrolytic means, 22:7590
preparation of rhenium-185 and -187, use of isotope separator for, 21:40330
preparation of ruthenium foils as, for nuclear research, 22:24767
preparation of self-supporting films of bismuth, vacuum evaporation method for, 23:531 (ORNL-4308)
preparation of self-supporting germanium, vacuum evaporation method for, 23:531 (ORNL-4308)
preparation of self-supporting isotopic chromium, 25:59633 (CONF-711002-, pp 39-46)
preparation of self-supporting lithium, for nuclear-reaction studies, 25:41128 (CEA-R-4141)
preparation of self-supporting manganese, vacuum evaporation method for, 23:531 (ORNL-4308)
preparation of self-supporting silicon, vacuum evaporation method for, 23:531 (ORNL-4308)
preparation of self-supporting thin-foil nickel, use of electroplating method for, 21:37986
preparation of self-supporting titanium, 22:37272
preparation of self-supporting, electron source for vacuum evaporation, 22:9800(R) (COO-535-571)
preparation of stable foils of carbon, 22:29806
preparation of thick isotopic, inside an electromagnetic isotope separator, 21:3219
preparation of thin carbon—sodium chloride foils for deuteron beam monitoring, 23:39984
preparation of thin copper-backed deuterated polyethylene, for high-current accelerators, 22:7598
preparation of thin deuterated polyethylene, 25:43759
preparation of thin film deuterated polyethylene, 21:17236
preparation of thin film samarium isotope, reduction of samarium oxides using lanthanum for, 22:37271
preparation of thin magnesium isotope, reductive evaporation method for, 21:19117
preparation of thin neptunium-237, molecular plating rates for, 23:13264(R) (ORO-3785-1)
preparation of thin osmium, by electrospraying colloidal suspension of osmium dioxide in ethanol, 21:25378
preparation of thin oxygen, for low-energy positive-ion accelerators, 25:50203
preparation of thin pure lithium, sealed in nickel for low oxygen contamination, 23:23592
preparation of thin self-supporting beryllium foil, 21:31673
preparation of thin self-supporting boron films using heated substrates, 21:3470
preparation of thin self-supporting foils by vacuum deposition, methods development for, 22:46731(R) (COO-1746-8)
preparation of thin self-supporting lead films, 21:31674
preparation of thin, vacuum evaporator with electron gun for, 23:42817
preparation of thin-carbon-film, for use as backings in charged-particle reaction experiments, 21:37978
preparation of thin-foil molybdenum and rhenium, 21:6780
preparation of tritiated polyphenyl accelerator, for 14-MeV neutron production, 21:35360 (EUR-3474.f)
preparation of tritiated, developments in, 22:37240
preparation of tritium-containing rare-earth, for studying (d,n) reactions, 24:47537
preparation of uranium, electrospray method for, 22:45759
preparation of yttrium tritide, for (n,2n) cross section measurements, 21:45119
preparation of, facilities and methods at ORNL Isotope Target Center for, 23:50063
preparation of, for low-energy nuclear experiments, 21:17247
preparation of, methods development for, 22:1598(R) (COO-1265-49)
preparation of, methods development for, 23:1929(R) (COO-1265-67)
preparation techniques for, 21:19122
preparation with optically flat gold foils as backing, technique for, 25:22993
pressure measurements at 10^{-3} to 10^{-2} torr in gas, manometer for, 24:44374
production and operation of polarized proton, methods for, 21:42505
production and properties of polarized, 23:8903
production of charge-exchange hydrogen, design and operation of supersonic nozzle for, 22:48391(T) (NP-tr-1669)
production of gas, from argon-40 and neon-22 ion reactions with molybdenum and tantalum backings at 2 to 75 keV, 22:1552
production of gaseous hydrogen jet, inside accelerators, 24:35727(T) (BNL-tr-346)
production of gaseous polarized helium-3, 21:25424 (ORO-1316-22)
production of hydrogen gas, for accelerators, method for formation and catching gas jet in vacuum for, 21:46613 (JINR-P13-3425)
production of isotopically pure, in electromagnetic mass separators by ion-beam retardation, 25:31069
production of metallic foils for, 22:263
production of solid tritium or deuterium, for neutron generators, 21:34378(P)
production of thin solid-hydrogen foil, 23:16827
production of thin-film, survey of methods for vacuum-evaporation, 21:26022 (AWRE-O-32/67)
production of tritium- and or/deuterium-containing polymers as, for neutron accelerators, 23:13764(P)
properties for high-flux neutron production at JINR 660-MeV proton synchrocyclotron, 24:47543
properties of polarized proton, for NIMROD, 21:29779
properties of polarized proton, of ammonium aluminum nitrate and potassium aluminum nitrate, 25:5450 (LA-4465, pp 4.1-2)
properties of stripper, for heavy ions, 25:50568
properties of tritiated titanium, for 14-MeV neutron production, 25:14840 (EUR-4286(Pt.2))
proton dynamic polarization in, (T), 21:42507
proton polarization and relaxation rate measurements in porphyrexide-doped butanol—H_2O, at 25 kG and low temperature, 25:7784
proton polarization and relaxation time measurements in porphyrexide-doped glycerol—H_2O below 1 K, 25:7785
proton polarization in irradiated polymers, by solid effect, 22:3601
proton polarization in, linearized Q-meter circuit for measurement of, 22:7596
proton polarization in, NMR methods for measuring, 21:42505
proton polarization in, using spin refrigerator, 21:42508
proton polarization measurements at high magnetic fields and low temperatures in porphyrexide-doped glycerol—water, 25:3500
proton reactions at 3 GeV, production of radioisotopes in argon near, 22:22511
proton reactions with gaseous, energy and angular distribution of electrons ejected from, 23:13974 (BNWL-715(Pt.2), pp 181-225)
proton relaxation in lanthanum magnesium nitrate, at high fields and low temperatures, 21:42506
radiation damage effects on polarization of polarized, physical mechanism of, 21:42515
radiation dose to, method for determining, 23:26591(P)
radiation dosimetry around Nimrod, 23:28067
radiation effects on deuterated, carbon-sheathed, polyethylene, helium-3 ion, 24:3817
radiation effects on heat generation in, 21:23908 (BNL-50042)
radiation effects on HFIR, 23:8340 (ORNL-4370, pp 193-7)
radiation hazards of detached particles from zirconium—tritium, for neutron sources, 24:30610 (KFKI-70-9)
radioactivation of air around 3-MeV proton, 24:6775
radioactivation of, calculated residual radiation levels in, 24:43083 (ORNL-TM-2834)
radioinduced failure of HFIR, in-pile, 22:4829
radioinduced heating of, mechanism of electron beam, (T), 21:20725 (CEA-R-3139)
range-energy relations for low-energy ions in dense, (T), 22:978
reactivity worth of, effects on fast neutron flux in critical assemblies of, 25:6117
regeneration of neutron-producing, ion sputtering method in accelerator for, 24:28646 (N-70-17605)
regeneration of titanium tritide, by heat treatment, 25:45851

- sales and loans of stable isotope, at AERE, 23:47712 (NP-18012)
- sample changer for neutron, design of two-cycle preset timer and, 21:45345(R) (IDO-17234)
- sample holder corrections for neutron scattering studies, 24:40520
- sample holder for biological suspensions, 22:48406
- scattering chamber for gaseous, for charged particles, 23:17045
- seals for neutron-production, design of high-speed rotating vacuum, 22:15898
- separation of actinium and radium from thorium, chromatographic, 22:33516
- separation of radioisotopes from cyclotron, by evaporation in vacuum, 22:40203
- separation of radioisotopes from, chemical and nuclear methods for, 25:57481 (KURRI-TR-76, pp 8-14)
- separation of sodium-22 from magnesium, in organic solvents by ion exchange, 22:30668
- separation of transuranium elements from HFIR, method for, 24:5707 (ORNL-TM-2434)
- shielding calculations for tungsten, of Frascati linear accelerator, 23:17025(T) (ORNL-tr-1897)
- shielding design for, high-energy electron shielding calculations for, 23:34701
- size for electron beam, relation to dose rates, (T), 21:26989
- storage chambers for linear accelerators, design of, 22:1598(R) (COO-1265-49)
- support films for, preparation of thin parylene, 25:4329
- support system for refrigerated liquid hydrogen, engineering drawings for, 24:20279
- temperature control for neutron scattering, thermistor and thermocouple devices for, 22:2473
- temperature control of metallic, in vacuum, electron beam and infrared radiometry techniques for, 23:23591
- test conditions for tritiated titanium, in production of 14-MeV neutrons, 23:37037 (EUR-4286(Pt.1))
- testing of hydrogen, for Princeton Synchrotron, destructive, 22:29793
- thickness and uniformity measurements using charged particles, 25:57863 (CONF-711002-, pp 307-20)
- thickness measurements using Rutherford scattering, foil, 22:44559
- thickness monitor for, design of simple crystal-controlled oscillator, 23:13161
- thickness of electron—positron storage ring, calculations for, 22:5696
- thickness of metal film, electron transmission method for measuring, 23:2709
- thickness of multicomponent, determination of partial, 23:46890
- thickness of, calculation from charged-particle energy losses, 22:26929(R) (COO-1420-139)
- thickness of, development of torque-motor balances for measuring, 25:17657
- thickness of, gage using piezoelectricity of quartz for measuring, 22:29805
- thickness of, methods for measurement of, 24:5372
- thicknesses of, development of 8-MeV alpha particle gage for, 23:30923(R) (RHEL/R-170)
- transfer from cyclotrons, pneumatic system for rapid, 23:30906
- transfer system and sample rotator for electron linear accelerator bremsstrahlung, design and performance of pneumatic, 22:1544
- tritium contamination near tritium—metallic, for neutron production, 22:43310 (PHS-999-RH-29)
- tritium desorption from metallic, use of neutron count from T(d,n) reaction for determination of, 24:25702
- tritium distribution in thin-backed, determination using (p,n) reactions, 22:37242
- tritium distribution measurements in titanium, using surface-contoured diodes, 23:46860 (BNWL-1051(Pt.3), pp 28-30)
- tritium loss rates in tritiated titanium, for neutron production, 25:3542
- use as gamma source for production of x rays of particular wavelength, 22:388(P)
- use for industrial research in USSR, 24:48225
- use of DPPH-doped polystyrene as polarized proton, 21:25369
- use of gaseous, for nuclear reactions with deuterons, 22:26738 (NP-17333)
- use of high-pressure gas, with scintillation detectors for detection of slow mesons, 21:45400
- use of implanted, for Doppler-shift lifetime measurements, 24:13254
- use of liquid bismuth—lead, with high-energy accelerators for production of high neutron flux densities, 21:46621
- use of liquid hydrogen, inside spark chambers, 21:16133 (CONF-660918-, pp 389-408)
- use of polarized helium-3, for nuclear reaction studies, 21:21412
- use of polarized proton, experimental problems in, 21:5438 (UCRL-17133)
- use of polarized proton, for determining KΣN parity from $\pi^+ + p \to K^+ + \Sigma^+$ interactions, (E), 22:13673
- use of polarized proton, for N + p interactions at 14.5 and 23.1 MeV, 22:5501
- use of polarized proton, for search for W production in N + N interactions, feasibility of, 25:33542
- use of polarized proton, for test of CPT invariance, 21:37893
- use of polarized proton, for testing C, P, T invariance and CPT theorem, 21:19044 (JINR-P2-3217)
- use of polarized proton, in particle physics, 22:9715 (CERN-67-24(Vol.4), Paper 3)
- use of polarized, for antineutrino interactions at high energies, 22:1416 (IAE-1241)
- use of polarized, for high-energy physics, 21:29776
- use of polarized, for N + d interactions, 21:13713 (SLAC-PUB-256)
- use of polarized, in determining parity and spin of meson and baryon resonances, 21:42372
- use of polarized, in experiments in nuclear physics, (T), 21:10083
- use of polarized, in high energy physics, spin amplitudes for, 21:42371
- use of polarized, in high-energy physics, 25:53433 (UCRL-20655, pp 117-28)
- use of polarized, with slow polarized neutrons, 21:42532
- use of silver sheet, in γ-x-ray fluorescence method of wear measurement, 22:4353 (EUR-3627)
- use of sodium tungstate, for low-energy physics, 22:20380
- use of solid hydrogen, in primary beams of high-energy cyclic accelerators, feasibility of, 25:50269
- use of thick, for charged-particle capture cross section measurements, 22:24832
- uses of polarized, advantages and additional information obtainable from, 21:42503
- vacuum furnace for neutron scattering measurements at sample temperatures of 800°C, 23:46888
- valve for gas, design of thermo mechanical leak, 24:10876
- windows for gaseous, strength of nickel foil, 24:28661
- x-ray penetration in copper—zinc, use of tracers to measure, 21:41163
- x-ray production in, Monte Carlo calculation of, (T), 25:27836

Radiation Therapy
- see Radiotherapy

RADIATORS
- (Limited to space vehicle radiators)
- see also Heat Pipes
- coatings for space vehicle, composition and preparation of, 24:4832(P)
- design and fabrication of SNAP-23A, 24:25217(R) (WANL-3800-45)
- design and testing Rankine-cycle, using potassium as working fluid, 21:41104
- design and thermal testing of SNAP-23A, 22:14679(R) (WANL-3800-9)
- design concepts for SPR-6 system, analysis of direct-condensing tube-fin and heat pipe, 24:2044 (UCRL-50004-67-1, pp 47-82)
- design criteria for, for isotopic batteries used in space flight, 21:26107
- design for cesium and potassium vapor cycle space power plants, 22:25573 (ORNL-TM-2081)
- design for heat pipe, use of HPRAD4 computer program for, 21:34399 (UCID-15165)
- design for heat rejection from heat pipes, 24:31533(R) (LA-4446)
- design for mercury heat pipe systems, 24:20935(R) (LA-4374)
- design for SNAP-23A, 25:333(R) (WANL-3800-46)
- design limitations for dynamic converters, 22:19819
- design of flat-plane and cylindrical heat-rejection, effects on spacecraft mass, 21:35656 (NP-16812)
- design of heat pipe, for 50 MW(t) space power plant, 21:41101 (UCRL-50294)
- design of louvered foil-type, for thermoelectric generators, 24:44198(P)
- design of neptunium-237 polarized neutron, 25:5451 (LA-4465, pp 8.1-2)
- design of rocket engine, parametric analysis of nuclear shield weight for, 21:31997 (NASA-CR-72245)
- design of space vehicle liquid sodium, for shutdown cooling of reactors, 25:20805 (N-70-39420)
- design of space vehicle, structural and thermal requirements for, 23:17668
- design of, for space power reactor, engineering drawings for, 21:10526
- design parameter of plate type, for protection of heat pipes, 25:20808(P)
- design parameters for conceptual 1 to 5 kW(e) plutonium phosphide (PuP)-fueled heat-pipe thermoelectric fast reactor, 23:19543
- design study for thermionic reactor, 24:29062(R) (N-70-12176)
- development for Air—Vac thermoelectric converters, 24:36948(R) (ALO-(2510)-8)
- development for nuclear electric space propulsion system, 21:15752 (LA-DC-8482)
- development of, for potassium vapor Rankine system, 21:4659 (NASA-SP-131, pp 201-38)
- efficiency of load-bearing, for nuclear potassium Rankine systems, 22:35974 (N-68-10050)
- fabrication and testing of multiple-heat pipe, for cooling thermoelectric converters in space power systems, 25:41978
- mass of space power system, effects on system total mass, 25:54916
- mass of spacecraft heat rejection, effect of configuration on, 21:35656 (NP-16812)
- materials and geometry of, for heat dissipation in space, 21:14401
- materials for SNAP-23A, properties and selection of, 25:15846(R) (WANL-4182-3)
- materials for, brazing and thermal properties of, 21:14833
- materials for, properties of, 21:14832
- performance of thermoelectric space power system, 24:48222(R) (GA-9515(Pt.2))
- surface properties of, effects on performance of thermoelectric converters, 24:22875(R) (GA-8928(Pt.2))
- thermal analysis of SNAP-23A, 22:33605(R) (WANL-3800-12)
- transfer functions for SNAP-8, calculation of, 23:28579 (N-69-14503)
- welding methods for high-temperature, 22:12991

RADICALS
- see also Ethyl Radicals
- see also Free Radicals
- book: Radical Ions, 22:30511
- determination of alkoxy, by iodate method, 25:37272
- formation of long-lived organic, in irradiated aqueous solution, 21:22364(R) (BNWL-235-2)
- formation of trapped, review of methods for, 21:14244
- radiation effects on intermediates of, in chromosomes, 24:39426(R) (AI-AEC-12974)
- radioinduced chain reactions in flow systems, effects of mixing on, 23:26264 (BNL-12519)
- radioinduced formation of, in biological systems, ESR studies on, 24:34111
- radioinduced long-lived, in lysozyme and RNAase, ESR spectra of fast neutron, γ, and proton, 22:12820
- radioinduced, bibliography on electron spin resonance of, 22:25372 (COO-38-595)
- radioinduced, from water, effects of, on histamine activity in ileum of guinea pigs, x, 23:798
- radioinduced, in amino acid crystals, EPR spectra, 24:34111
- radioinduced, in biological substances, electron spin resonance investigations of x, 23:29379

Radio Antennas
- see Antennas

RADIO ASTRONOMY
- absolute flux density scale at 408 MHz, (T), 23:14514
- angular diameter measurements in, 22:41173
- aperture synthesis processing, method for, (E), 24:37063
- Astronomical Unit determination by, (E), 22:52371
- atmospheric attenuation effects on 61.15-GHz, 21:26935 (TID-23760, pp 33-48)
- book: An Introduction to Astronomy: Planets, Stars, and Galaxies, 22:24022
- book: Introduction to Radio Astronomy, 22:15323
- book: Planets and Satellites: World of Space, 23:20659
- book: Radio Astrophysics. Nonthermal Processes in Galactic and Extragalactic Sources, 24:32567
- brightness map at 22.25 MHz of galactic plane, (E), 23:20606
- brightness temperature of background, (E), 25:33034
- brightness temperatures at 320 and 707 MHz, absolute sky, (E), 24:23653
- calibration regions in, measurement of 21-cm line, (E), 24:19631
- catalog of 3235 sources between declinations 34°02' and 29°18', (E), 24:30090
- characteristics of the VLA telescopes, (T), 22:904
- conference on progress in radio science, (T), 22:34364 (CONF-660950-(Pt.2))
- conference on, Cambridge July 1969, summary of, (T), 24:8310
- continuum survey of southern Milky Way at 1410 MHz, (E), 23:1135
- contour map for region between 108 and 138°, (E), 25:32946
- contour maps at 610.5 MHz of supernova remnants, (E), 23:14432
- data processing systems in, (T), 24:44835
- detection of 36466.32 MHz line in Omega Nebula, (E), 23:14493
- detection of OH emission in interstellar dust clouds, (E), 23:14559
- detection of radio lines of interstellar nitrogen monoxide, possibility of, (T), 23:36349
- detection of radio-recombination lines from H I regions as a result of low-energy cosmic-ray ionization, (E), 23:14652
- detection of signals from hydroxyl radical, (T), 23:14494
- detection of sources in high-frequency surveys, (E), 23:10376
- determination of interstellar magnetic fields by Zeeman effect measurements, (E/T), 23:6835
- developments in, (T), 25:35659
- draft reports of commissions of the International Astronomical Union, 22:29170
- dust-to-hydrogen ratio in nebulosity near rho Oph, (E), 23:14516
- electron temperature distribution in HII regions from, (E), 23:18337
- equipment parameters for mm and sub-mm, (E/T), 25:7034
- existence of galactic radio halo, (T), 23:20625
- formation of simultaneous radio images and spectra by electro-optic methods, (T), 22:19713
- frequencies for, allocations of, (T), 25:2852
- galactic background between 0.4 and 6.5 MZz, spectrum of, (E), 23:48650
- galactic background intensity at 2 and 3 MHz, (E), 23:34175
- implications for astrophysical studies, (T), 21:36959 (ESRO-SP-6, Paper 1)
- intensity calibrations in absolute, (T), 22:7115
- interferometer experiments for, long-baseline, 22:34144 (TID-24491, pp 19-22)
- interferometry at 408 and 448 MHz, long-baseline, (E), 24:10259
- interferometry at 610 MHz, high-resolution, (E), 24:23642
- interpretation of data on Venus, (E), 23:14595
- low-latitude survey at 1410 and 2650 MHz from 27 to 38°, (E), 23:16582
- magnetic fields in Perseus arm, detection by measurement of Zeeman splitting of 21-cm hydrogen line, (E), 22:49966
- map of entire sky, (E), 25:19388
- maser action in interstellar OH, (E), 23:25056
- measurement of atmospheric ozone transition at 101.737 GHz, (E), 22:19690
- measurement technique in, conference papers on, 23:41788
- mechanism for maser action of hydroxide molecules in space, (T), 22:852
- observation problems of solar, (T), 23:20633
- observations at 21 cm at low latitudes in direction of galactic center, (E), 23:39162
- observations at 408 MHz of bright emission nebulae, (E), 23:16587
- observations in short-microwave region, (T), 24:4914
- observations of interstellar molecular hydrogen, (E), 23:44083
- observations of solar plages and bursts, techniques for decimeter, (E), 24:1210

observations of sources at high resolution, review on, (T), 23:44077
observations of southern sky at 10.02 MHz, (E), 23:6822
polarization and transformation theory of quasi-monochromatic radiation fields, (T), 25:2846
proportional detectors for space flight x-ray, gas system regulator for, 21:22134 (UCID-15128)
quantum interference paradox in long-baseline, (T), 23:41817
radiation fields in, measurement of autocorrelations in, 21:5029
radiation from molecules in interstellar space, (T), 25:9071
radio sky spectrum, power spectral index of, (T), 21:39762
recombination lines in, populations of highly excited states of hydrogen, (E), 23:10363
recombination lines in, rf, <T), 24:44892
recombination lives for, tables of rf, (E), 22:47790
research programs on, at Tata Institute, India, 21:41292(R) (NP-16972)
research using space vehicles, 21:18483
review of extragalactic, (T), 24:21479
review of progress in, (T), 23:41818
review of studies in the USSR, 21:11345
review of x, 21:2005
scans in, inversion of fan-beam, (T), 22:4947
search for 111-MHz lines of SH radical in, (E), 23:10372
sensitivity in coherent and incoherent detection in, (T), 24:32566
solar observations with Molonglo cross, (E), 24:1216
solar occulting disk of, at radio wavelengths, (T), 23:14533
spectra of galactic background, (E), 24:28040
survey at 1.414, 2.695, and 5.0 MHz in the galactic plane, 24:30091
survey at 1415 MHz between declinations of 0 and 20°N, (E), 23:51241
survey at 1415 MHz between declinations of 0 and 36° south, (E), 24:30089
survey at 1417 MHz for sources with flux excess at short wavelengths, (E), 23:20618
survey at 408 MHz, pencil-beam, (E), 22:52376
survey at 610.5 MHz of region between +22 and +27°, (E), 24:19633
survey between 0 and 20° north declination, (E), 25:2855
survey of anticenter region of the Galaxy at 13.1 MHz, (E), 23:30284
survey of continuum radiation at 820 MHz between -7 and +85°, (E), 25:55787
survey of galactic plane at 9.26 cm between longitudes 32 and 49°, (E), 23:51334
survey of northern sky at 178 MHz, (E), 22:8970
survey of southern sky at 85 MHz, (E), 22:792
survey of the 21-cm line in solar neighborhood, (E), 23:30255
use in estimation of chromospheric parameters, (T), 22:7112

RADIO GALAXIES
see also Seyfert Galaxies
1787, x-ray emission from, (E), 23:30250
3C 371, spectral redshift of N-type, (E), 23:51325
age of, (T), 24:19673
alignment of galaxies with, (E/T), 23:6864
angular dimensions of, (E), 23:5148
angular separation of double radio sources in, (E), 24:27961
angular sizes of, (T), 24:1234
angular structure of, observations of, (E), 22:29026
apparent magnitude—redshift relations for, (T), 23:34247
association with quasars, survey for, (T), 21:16752
blue objects associated with cD clusters of, detection of faint, (E), 25:4930
book: High-energy Astrophysics, 24:25819
book: Relativity Theory and Astrophysics. 2. Galactic Structure, 22:11191
brightness distribution for 3C20, polarized, (E), 24:39767 (AD-704795)
brightness distribution for Vir A, (E), 24:8268
brightness distribution of 3C 192, (E), 22:4946
brightness distribution of core-halo, (E), 25:22297
brightness distributions at 2695 MHz of, (E), 22:26172
brightness distributions for 54, east—west, (E), 25:58645
brightness fluctuations of 3C 371, long-term, (E), 22:17257
Cen A, search for gamma emission from, (E), 23:44124 (AD-683358)
Centaurus A, search for gamma emission at 34 to 567 keV from, (E), 23:14498
characteristics of, (T), 22:34203
charged-particle acceleration by magnetic field dissipation in, (T), 21:781
charged-particle emission from, statistics of, 21:18731
conference on, Austin, Texas, 12/64, 24:37162
connection to compact companions in 3C 371, (E), 24:17595
cosmic proton production in, past, (T), 21:29030
cosmic ray origin in, (T), 21:35051
cosmic-particle acceleration in, effect of ionization losses on, (T), 25:1027
cosmic-ray production in, (T), 22:15385
cosmological significance of, (T), 21:14932
Cygne A, emission mechanism of frequency-dependent component of, (T), 23:14561
density and mass of NGC 3998, central, (E), 24:27986
detection from Parkes 2700-MHz survey, (E), 24:51370
detection in clusters of galaxies, (E), 22:47735
detection in the galactic north polar region at 1415 MHz, (E), 21:43741
detection of, in clusters of galaxies, (E), 22:7079
detection of, in clusters of galaxies, (E), 22:7078
detection of, in clusters of galaxies, (E), 24:1163
discovery of, history of, 22:918
distances to, (T), 23:44144
distribution in the Universe, (T), 23:10423
distribution of outlying material in NGC 1275, (E), 24:19680
distribution of, (T), 22:8926
distribution of, membership in supergalaxy, (T), 25:40325
distribution of, space, (T), 22:2721
distributions of 10.6-cm linearly polarized radiation from, (E), 21:13328
ejection from peculiar galaxies, (T), 21:26954
electron energy distribution of 3C 120, (E), 22:36685
electron energy spectra of, time variations caused by synchrotron radiation, 21:9265
electron leakage from, origin of x-ray background in, (T), 25:11657
electron production in, mechanism for relativistic, (T), 24:10265
emission at 2640 MHz of E and SO noncluster, survey of, (E), 23:44123 (AD-679650)
emission from, model for, (T), 24:21491
emission in spiral, origin of continuum, (E), 25:58646
energetics of, (T), 22:29109
energy emission from, (T), 22:28996
energy generation in, (T), 22:5033
energy of relativistic particles and magnetic fields in reabsorbing, total, (T), 22:45893
energy production in, (T), 22:34200
energy source for, (T), 22:23968
energy source for, uniformly rotating relativistic disks as, (T), 25:43092
energy source of, (T), 21:36987
energy sources of, relativistic effects in study of, (T), 22:43686
evolution of high-star-density, (T), 21:31174
evolution of quasars to, (T), 22:29122
evolution of, (T), 24:10350
evolution of, (T), 24:12610
evolution of, (T), 22:34184
evolution of, (T), 21:6924
evolution of, cosmological, (T), 25:24829
evolution of, spinars in, (T), 25:13952
evolution, 3C radio spectra as aid in, (T), 24:10264
evolutionary properties of, determination by luminosity—volume test, (T), 22:23940
expansion of, (T), 22:34154
explosions in giant elliptical, multiple, (T), 25:30218
explosive interpretation of phenomena in NGC 1275, (E) , 24:19680
features of NGC 1068, NGC 1275, and NGC 4486, relation of optical and radio, (T), 22:49915
fine structure studies of Cyg A, (E), 25:32964
flux densities at 2695 MHz of, (E), 22:52431
flux densities at 8 GHz of sixty, (E), 25:16726
flux densities at 8,000 MHz for PK 0048-09, variations of, (E), 24:21504
flux densities for 54, (E), 25:58645
flux density at 5 GHz of M87, variations of, (E), 25:38108
flux from four, (E), 25:30129
flux variability of PKS 0048-09, verification of, (E), 24:28054
formation of, fluctuating magnetic field mechanism of ionized clouds of quasars in, (T), 23:25066
formation of, theory of, (T), 22:8899
gamma emission from Cen A and Virgo A, (E), 25:19455
gamma emission from M87, upper limits for, (E), 24:8363
gamma emission from, detection of, (T), 25:35687
gamma spectra of Vir A and Cen A, (E), 25:45211 (AD-719864)
gravitational collapse and anticollapse in, relation to high-energy particles and magnetic fields associated with, (T), 22:41146
gravitational collapse in, (T), 24:32600
Hubble plot of N-type, anomalous, (T), 23:30249
hydrogen absorption and emission in NGC 5128, neutral, (E), 25:35789
hydrogen absorption from Cen A, detection of 21-cm, 24:37074
identification between declinations 0° and -20°, (E), 21:14935
identification from 4C catalog of, optical, (E), 24:46909
identification of 37, optical, (E), 22:15294
identification of 3C 14 and 3C 42 as, (E), 25:22285
identification of 3C 17 as, (E), 21:33026 (AD-642166)
identification of 3C 386 as, (E), 24:25876
identification of 4C 50.11 as, (T), 22:17298
identification of AP Librae with PKS 1514-24, (E), 25:43082
identification of cosmic radio sources as, (T), 23:51229
identification of southern hemisphere, (E), 25:9067
identification of, (E), 25:22283
identification of, (E), 24:1165
identification of, between +20 and +27°, (E), 23:6823
identification of, from optical measurements on 41 cosmic radio sources, (E), 25:7017
identification of, optical, (E), 24:32564
identification of, optical, (E), 24:39766 (AD-704793)
identification of, optical, (E), 25:7020
identification using 4C right ascensions and Arecibo declinations, optical, (E), 25:7019
identification with bright optical galaxies, (E), 22:8879
implications for recent developments in cosmology, (T), 23:10422
infrared emission from, observations and theory, (T), 24:23697
infrared spectra of jet in M87, (E), 24:19619
interferometric study of 3C 273B, (E), 22:5014
jet ejection in Virgo A, mechanism for, (T), 24:12566
jets in, formation and stability of, (T), 24:12566
lifetimes and space density of, (T), 21:574
lifetimes of, energy-loss effects on, (T), 24:10335
light emission from, variations of, (T), 22:45865
light variations from, (T), 23:5188
luminosity function at 178 MHz of, (T), 21:43716
luminosity function for, (T), 23:5155
luminosity function of bright, at 408 MHz, (E), 25:45260
luminosity functions of, at 400 and 2700 MHz, (E), 25:58644
luminosity of spiral, (E), 24:12594
luminosity of, (T), 25:58659
luminosity of, log S—log Z relation in, (T), 24:42490
luminosity of, relation to polarization, (E), 23:16581
lunar occultation of, (E), 25:58538
M82, infrared observations of, (E), 23:22848
M87, mechanism for explosions in, (T), 23:51316
M87, x-ray emission from, (T), 23:25047
magnetic energy density in, (T), 21:9265
magnetic field ejection from, (T), 24:6311
magnetic fields in, (T), 22:29109
magnitude of, radio, (T), 24:19673
magnitudes of E and S0, (E), 23:44128
magnitudes of, effects of absorbing clouds at high-galactic latitudes on, (T), 23:22852 (NP-17833)
map of 3C 33 at 5 GHz, high-resolution, (E), 24:28050
mechanism for, possible, (T), 21:11375
model for, (T), 22:4924
model of, evolutionary, (T), 21:43720
model of, evolutionary, (T), 21:43725
models for compact radio sources ejected from, (T), 24:37057 (AD-701073)
models for nucleus of NGC 1275, (T), 21:16699
models for, (T), 24:39770
models for, (T), 25:49618 (AD-714110)
models for, (T), 24:37056 (AD-698206)
models for, electrodynamic, (T), 24:35085
NGC 1068, optical spectra of, 23:51331
NGC 1275, optical spectra of, 23:51331
NGC 4486, emission mechanism of frequency-dependent component of, (T), 23:14561
NGC 4486, lifetime relativistic electrons in jet of, (T), 23:25045
nuclear properties of, (T), 24:1230
nuclei of, dependence of radio emission of ejected clouds on, (T), 25:2867
nucleogenesis in, (T), 22:19688
nucleus of NGC 1275, properties of, (E), 24:15108
observation of E and S0, (E), 24:35130
observations at 11, 21, and 75 cm of barred spiral, (E), 21:6947
observations of bright southern, fan-beam, (E), 23:34173
observations of bright, at 408 MHz, (E), 23:6869
observations of M87 at 5 GHz, (E), 24:46973
occultations of 3C 132 and 3C 444, lunar, 21:26941
optical form of N-type, comparison with Seyfert galaxies, (E), 22:41236
optical identification of, (T), 22:29105
optical identifications of, between +20° and +27°, (E), 22:47734
optical observations of, (T), 22:29104
optical positions of, (E), 22:13194
optical positions of, (E), 23:6830
optical spectra of, emission lines in, (T), 24:19673
optical variability of PKS 1514-24, rapid, (E), 25:49627
optical variations of 3C 171, (T), 22:795
optical variations of 3C 371, (T), 22:796
origin of, model for, 21:6958
parameters for, near 2 flux units at 408 MHz, (E), 24:42388
particle emission from, relativistic, (T), 25:13922
photometry of southern, three-color, (E), 23:51317
photometry of, UBV, (E), 24:1162
physics of, review on, (T), 23:44143
plasma ejection from, (T), 24:6311
plasma model for, (T), 23:27251 (AD-674265)
polarization at 2.07 cm, linear, (E), 23:5133
polarization at 49 cm, circular, (E), 24:42409
polarization at 6 cm of, linear, (E), 22:47739
polarization between 11 and 20 cm of, linear, (E), 23:16581
polarization between 11 and 20 cm of, linear, (E), 23:16580
polarization distributions at 1418 MHz of, east—west linear, (E), 23:20624
polarization distributions at 1418 MHz of, east—west linear, (E), 23:44062 (AD-679894)
polarization measurements at 21.3 cm, linear, 21:18392
polarization measurements on 0430 + 05, optical, (E), 21:28880
polarization observations of 3C 371, (E), 22:11128
polarization of 1418-MHz radiation from, upper limits for circular, (E), 22:34198
polarization of optical and radio emission from, circular, (T), 22:899
polarization of, relation of spectral index to linear, (E), 23:51238
positions for 54, (E), 25:58645
positions of, (E), 22:4968
power levels of, (T), 22:918
properties of, 21:570
properties of jet from M87, radiation and physical, (E), 22:21834
properties of NGC 1052 and NGC 4278, (E), 22:19695
properties of nuclei of, (T), 24:44949
properties of, (E/T), 22:28998
properties of, (T), 23:39279
properties of, (T), 21:41742
properties of, (T), 22:919
properties of, (T), 21:28949
properties of, discussions at Prague, 8/67, on, 22:13083
properties of, in common with quasars, (T), 24:1234
properties of, optical and radio, (T), 21:43707
properties of, statistical, 21:5048
radiation emission from, mechanism for, (T), 22:29095
radiation from, mechanism for nonthermal optical, (T), 22:52386
radio absorption in direction of NGC 6618, (E), 22:29004
radio background contribution from, (T), 21:43728
radio brightness of Cyg A, (E), 24:10344

radio contours at 408 MHz of Fornax A, Virgo A, and Cen A, (E), 24:27975
radio emission from, circular polarization of, (E), 22:11129
radio emission from, circular polarization of, (E), 22:23953
radio emission from, variations of, (T), 22:45865
radio luminosity and surface brightness of, absolute, 21:3608
radio luminosity distribution of, (T), 22:29106
radio luminosity function of, 22:29089
radio scintillations of, interplanetary, (E), 24:10257
radio source in nucleus of M87, compact, (E), 24:4970
radio spectra at 60 MHz, (E), 25:2845
radio spectra for PK 0048-09, (E), 24:21504
radio spectra of, comparison with quasar spectra, (T), 23:3203
radio spectra of, interpretation of curvature in, (E/T), 25:2847
radio structure of, (T), 23:48638
radio variations of 3C 120, (E), 22:36685
radio-wave generation in, by isotropic electrons, (T), 23:44202
radioactivity in nuclei of, (T), 24:19672
radioluminosity as function of redshift for, absolute, (E), 25:11581(T) (CSIRO-Trans-10247)
red shift for, gravitational and cosmological components of, (T), 21:39769
red shift of five, (E), 22:5022
red shifts and power outputs of, (T), 21:18400
red shifts of nine, from 3C R catalog, (E), 22:11130
red shifts of ten, (E), 21:28881
red shifts of thirteen, (E), 21:39754
red shifts of, (T), 22:38664
red shifts of, distribution of, (T), 21:31160
redshift of 3C 371, (E), 24:17596
redshift of 3C 371, (E), 24:17595
relation of compact and N-type, to quasars, (T), 22:41184
relation of IC 3258 to M84 and M87, (E), 23:48671
relation of NGC 5128 to extragalactic x-ray sources, (E/T), 25:45259
relation to quasars and regular galaxies, (T), 21:26954
relation to quasars, (T), 22:52364
relation to quasars, (T), 22:45911
scintillations of, interplanetary, (E), 22:11166
spectra and flux densities of, at 5 GHz, (E), 23:30241
spectra of 3C 398, thermal and nonthermal components of, (E), 22:45892
spectra of nuclei of elliptical, optical, (E), 25:19449
spectra of nucleus of M87, Hα emission in, (E), 24:25923(T) (CSIRO-Trans-9718)
spectra of nucleus of NGC 1275, (T), 21:16699
spectra of Virgo A, from 1411.7 to 1423.8 MHz, (E), 24:4975
spectra of, (E), 23:39177
spectra of, (T), 22:34200
spectra of, classification of radio, (E), 25:19369
spectra of, distribution of red shifts in, (T), 23:5141
spectra of, interpretation of, (T), 21:6924
spectra of, origin of emission lines in, (T), 24:19672
spectra of, radio emission, (E), 23:5194
spectra of, radio, (E), 22:31569
spectra of, radio, (T), 22:45867
spectra of, review of forbidden emission lines in, 23:44134
spectra, problem of Compton losses in, (T), 22:8961
spectral fine structure of Virgo A, (E), 24:12603
spectral index—flux density relation for, (E), 24:27996
spectral polarization at 6 cm of, linear, (E), 24:39779
spectral red shifts of eight, (E), 23:8393
spectral redshift distribution of, periodicities in, (E), 24:6339
spectral redshifts of five, (E), 24:23631
spectral redshifts of four, (E), 24:27986
spectral redshifts of, (E), 24:27961
spectral redshifts of, periodic clustering of, (E), 24:4933
spectral shape of, relation to absolute power, (E), 25:43063
spectrum of 3C 120, (E), 22:36649
spectrum of 3C 371, (E), 24:17596
spectrum of M82, (T), 22:34200
spectrum of NGC 300, profile of 21-cm neutral hydrogen line in, 21:22963
spectrum of NGC 4278, (E), 22:29123
structure and properties of, (T), 21:542 (NYO-3164-2, Lect. 6)
structure at 1425 MHz, east—west, (E), 22:2757
structure of 3C 33, (E), 24:28050
structure of 3C 46, 66, 129, and 465, (E), 21:1999
structure of 3C 79 and 3C 192, (E), 22:34163
structure of Cyg A, (E), 24:10344
structure of Fornax A, (E), 22:29136
structure of large double, (T), 24:10335
structure of radio-emitting regions of, high-resolution interferometry of, (E), 22:49880
structure of, (T), 21:36987
structure of, (T), 22:7117
survey of 21-cm continuum emission from clusters, 21:3623
synchrotron emission from, (T), 25:13936(R) (AD-711829)
theory of, 21:33068
theory of, 21:2011
theory of spiral and, unified, 21:31168
Virgo A, gas composition in nucleus of, (E), 23:36451
Virgo A, observations of the emission line H/sub *α*/ in the nucleus of, (E), 23:36451
x radiation from, bremsstrahlung mechanism for, (T), 21:16731
x-ray emission from Cen A and Virgo A, (E), 25:19455
x-ray emission from Centaurus A, origin of, (E/T), 24:39771
x-ray emission from M87, (E), 22:11116
x-ray emission from M87, (T), 24:1185
x-ray emission from remote, as origin of diffuse x-ray background, (T), 23:18334
x-ray emission mechanism for Cygnus A and Virgo A, (T), 21:33104

RADIO RECEIVERS
design for pulse detection from cosmic EAS, 24:31758
design of rocket-borne am, for measurement of electron density in lower ionosphere, 23:26626
development for continuously recording ionospheric critical frequency, 24:5953
electromagnetic pulse effects on, from surface nuclear explosion, 21:692(R) (NP-16306)
sensitivity and noise temperature for pulse detection from cosmic EAS, 24:31758
testing in automatic remote radiological monitoring systems, 21:20175 (NP-16601)

Radio Sources (Astro.)
see Cosmic Radio Sources

RADIO TELESCOPES
aperture synthesis processing, method for, (E), 24:37063
characteristics of VLA, (T), 22:904
construction of compound interferometer, (E), 24:1209
description of, for solar radio emission at 8 mm, (E), 21:16709
design and construction of, (E), 23:12482
design and operation of filled-aperture, (E), 25:47202
design and performance of, 21:41723
design for lunar occultation studies at 81.5 MHz, 23:16584
design for multifrequency observations of solar radio bursts, 25:7067
design for observations of radio galaxies using lunar occultation method, 21:3566
design of 100,000-wavelengths-baseline, (E), 23:6815
design of 158-MHz Culgoora interferometer, (E), 24:1208
design of Crimean Astrophysical Observatory, with 22-m parabolic reflector, 23:6828
design of Culgoora, (E), 24:1218
design of Jodrell Bank Mark III, for interferometer measurements, 22:11170
design of Jodrell Bank radiofrequency digital autocorrelation spectrometer, 23:33566
development for molecular line radio astronomy, 25:55091
interferometer for high-resolution 2800-MHz, 32-element, 22:885
interferometry using base line of 2 x 10^7 wavelengths, (E), 22:41182
parameters of Australian radioheliograph, (E), 23:27258
parameters of Parke's 210-ft—60-ft interferometer, (E), 23:20594(R) (NP-17806)
performance at 35 GHz of Algonquin, (E), 25:4918
performance of 210-ft Parkes, (E), 23:20594(R) (NP-17806)
performance of Parkes interferometer, (E), 23:34172
pointing equipment for Nancay Station, (E), 21:37041
properties of synthetic-aperture, (T), 23:44076
radiometer sensitivity in, parametric amplifiers for improving, 24:27467(T) (CSIRO-Trans-10098)
resolving power and principles of, (E), 25:43064
results from first space, (T), 24:19638
solar observations with 35-inch arc compound interferometer, (E), 24:1215
solar observations with Molonglo cross, (E), 24:1216
specifications for two general-purpose transit-type, (E), 24:19622
use in detection of interstellar water-vapor clouds, feasibility of, (T), 23:14558

RADIO TUNING CIRCUITS
design for beam observation in 300-GeV proton synchrotron, 22:1521 (CERN-563(Vol.1))

RADIO WAVES
see also Microwaves
see also Radar
see also Solar Radio Bursts
absorption and emission by interstellar gas, (T), 22:49962
absorption and virtual height of reflection in ionosphere, calculation of, 21:13457
absorption at 164 kHz in ionosphere, (E), 24:28164
absorption at 20 and 30 MHz over Delhi, diurnal, seasonal, and solar-cycle variations of cosmic background, (E), 25:38174
absorption at 7 GHz of solar, tropospheric, (T), 22:19897
absorption at auroral conjugate areas, diurnal variation during geomagnetic disturbances of cosmic-noise, (E), 24:45157
absorption at auroral latitudes, at 2.2 MHz, (E), 24:23863
absorption at high latitudes, ionospheric, (T), 22:46021
absorption at midlatitudes, effects of magnetic activity on ionospheric, (E), 22:41457
absorption at vlf in auroral zone, position and height of, (E), 23:12647
absorption at vlf in ionosphere, f cos i theorem for, (T), 23:27512
absorption by hot bounded magnetoplasmas, (T), 25:40699
absorption during 1968 in polar caps, correlation with optical bursts and radio-wave emissions from Sun, (E/T), 25:45321
absorption during solar cosmic-ray event, 21:25041
absorption during sudden ionospheric disturbances, cosmic noise, 21:29114
absorption events in auroral zone, latitudinal motion of, (E), 22:47910
absorption events in auroral, poleward motion of onsets of, (E), 22:13373
absorption in Antarctic ionosphere during 1969 austral winter, (E), 25:9324
absorption in aurorae during magnetic storms, morphology of, 24:17821
absorption in aurorae in conjugate regions at high latitudes, (E/T), 22:34425
absorption in aurorae, correlation properties of, (E), 23:48816
absorption in aurorae, horizontal gradients in, (E/T), 24:17844
absorption in aurorae, seasonal and diurnal behavior of, (E), 23:48815
absorption in auroral D region, (E), 22:34351 (AD-660555)
absorption in auroral ionosphere, (T), 22:47893 (N-68-23571)
absorption in auroral ionosphere, electron densities during, (E/T), 22:48008
absorption in auroral zone for distances >4000 km, (E), 23:51528
absorption in auroral zone of cosmic noise, correlation with auroral x radiation, (E), 24:51522
absorption in auroral zone of cosmic, (E), 22:17506
absorption in auroral zone of cosmic, (E), 22:17507
absorption in auroral zone of cosmic-noise, time lag of, (E/T), 25:58863
absorption in auroral zone, correlation to ionospheric—magnetic activity with riometer cosmic, (E), 25:16987
absorption in auroral zone, diurnal pattern of, (E), 22:48005
absorption in auroral zone, diurnal variations in latitudinal distribution of, (E/T), 25:33143
absorption in auroral zone, electron density and collision frequency from, 22:46023
absorption in auroral zone, properties of slowly varying, (E), 22:46010
absorption in auroral zone, proton flux correlation with, (E), 21:2112
absorption in auroral zone, relation to magnetic activity, (T), 22:47953
absorption in auroral zone, seasonal effects in, (E), 23:10568
absorption in auroral zone, space and time distribution of cosmic-noise, 21:39917
absorption in auroral-zone ionosphere of cosmic, anomalous, (E), 23:20803
absorption in conjugate and closely-spaced auroral region, short-term asymmetry of, (E), 25:35957
absorption in D layer at vlf, pre-sunrise, (E), 22:19865
absorption in D layer, electron concentration profiles from measurements of, (E), 23:10569
absorption in high-latitude conjugate regions, (E), 22:47930
absorption in high-latitude ionosphere, relation with magnetically disturbed and quiet periods, (E), 25:16997
absorption in inhomogeneous plasma near lower hybrid frequency, (E), 24:37517
absorption in intergalactic space, (T), 23:44140
absorption in interstellar formaldehyde, (E), 24:12600
absorption in interstellar space, (T), 25:30118
absorption in ionosphere as function of latitude, solar activity level, and season, (E), 22:38953
absorption in ionosphere at 164 kc, (E), 21:20797
absorption in ionosphere at middle latitudes, winter anomaly in, (E/T), 21:15049
absorption in ionosphere during 1959 to 1965 of cosmic, (E), 23:10567
absorption in ionosphere during eclipse of May 20, 1966, cosmic noise, (E), 22:22016
absorption in ionosphere during electron precipitation event, analysis from bremsstrahlung, 24:17849
absorption in ionosphere during May 20, 1966 solar eclipse, (E), 21:41926
absorption in ionosphere during phases of solar activity cycle, anomalous, 21:25000
absorption in ionosphere during sunrise and sunset hours, 23:51533
absorption in ionosphere during vertical probing, 22:9229
absorption in ionosphere for D and E region analysis, 21:686(R) (AD-640991)
absorption in ionosphere of cosmic background, (E), 25:9337
absorption in ionosphere of cosmic, calculated and riometer measurements during solar maximum and minimum, (E/T), 25:9289
absorption in ionosphere, (T), 22:41447
absorption in ionosphere, correlation with 1968 solar activity, (E), 25:45372
absorption in ionosphere, criteria for recognition of winter-day high, 21:29134
absorption in ionosphere, diurnal and seasonal variations of cosmic noise, 21:39874
absorption in ionosphere, diurnal-variation comparison at Loparskaya and College of auroral, (E), 25:16988
absorption in ionosphere, effect of sunspot cycle on, (T), 22:9210
absorption in ionosphere, effects of hard solar x rays on, (E), 25:11817
absorption in ionosphere, effects of solar zenith angle and frequency on, (T), 23:51461
absorption in ionosphere, effects on parameters of sporadic E, (E), 23:3361
absorption in ionosphere, electron density and collision frequency from, 21:11489 (NP-16456)
absorption in ionosphere, frequency dependence of anomalous cosmic noise, 21:24999
absorption in ionosphere, new aspects of winter anomaly of, (E), 25:52728
absorption in ionosphere, performance of Pole star-directed antenna and riometer for measurement of, 24:45133
absorption in ionosphere, phase-integral calculation of reflected, (T), 25:58875
absorption in ionosphere, relation of no-echo conditions to cosmic, 21:23130
absorption in ionosphere, relation to electron density profiles, (E), 22:52655
absorption in ionosphere, relation to solar activity, (E), 24:39978
absorption in ionosphere, riometer and ionosonde measurements for, 24:17857
absorption in ionosphere, seasonal variations of, 21:35082

absorption in ionosphere, sequences of synodic polar cap, 21:5199
absorption in ionosphere, space—time variation of, (E), 23:3341
absorption in ionosphere, use of inogram to identify high, 21:41937
absorption in ionosphere, use of riometer in detection of, 21:13456
absorption in ionosphere, variations at night of cosmic-noise, (E/T), 24:39977
absorption in ionosphere, variations in, 25:38925 (NP-18712, pp 19-34)
absorption in ionosphere, winter anomaly of, 22:5247
absorption in ionosphere, x-ray flares correlated with sudden cosmic noise, 21:2108
absorption in ionospheric D region due to cosmic-ray ionization, (E), 25:1079
absorption in ionospheric D region during solar eclipses, (T), 23:6926
absorption in ionospheric D region, (T), 22:19895
absorption in ionospheric E region, deflecting, (E/T), 21:37286
absorption in ionospheric F region, electron and ion temperatures dependence of, (E/T), 25:49813
absorption in ionospheric F region, electron temperature from cosmic noise, 22:2964
absorption in ionospheric F region, mechanisms of, (E/T) , 25:7265
absorption in ionospheric F2 layer, deviative, 21:43928
absorption in ionospheric sporadic E layer during solar cycle, relation of stability of reflection to, 21:25004
absorption in lower D region, (T), 22:34360 (AD-663711)
absorption in lower ionosphere as function of charged-particle ionization, (E), 24:5079
absorption in lower ionosphere, 28.6 MHz, cosmic-background, (E), 25:38214
absorption in lower ionosphere, effect of sunrise on, (E/T), 24:39965
absorption in lower ionosphere, method for computing, 24:6444
absorption in mesosphere and lower thermosphere, minor constituent concentration and transport during anomalous, (E/T), 25:35984
absorption in mid-latitude and auroral ionosphere, diurnal and seasonal dependence of integral, (E), 25:22450
absorption in middle ionosphere, 24:17804
absorption in middle-latitude ionosphere during global geomagnetic storm May 26, 1967, (E), 23:51511
absorption in midlatitude ionospheric D region, winter anomaly in, 21:25044
absorption in model ionospheric layers, (T), 22:41459
absorption in night E region, sources of excessive, 24:23856
absorption in nighttime ionosphere during periods of low solar activity, (E), 22:15443
absorption in nighttime ionosphere, relation of solar cycle to frequency dependence of, (E), 25:47433
absorption in plasma, noise spectrum in, (T), 23:51733
absorption in plasma, quantum theory of, 24:15310
absorption in polar cap following solar flares, (T), 22:47892 (N-68-23538)
absorption in polar cap on July 20, 1961, relation of electron-density profile with broad frequency range, (E/T), 25:33142
absorption in polar cap, (T), 22:46019
absorption in polar cap, design of rocket-borne data acquisition and telemetry system for measuring, 23:41105 (EUR-4289, pp 225-9)
absorption in polar cap, development, (E/T), 24:51489 (AD-706410)
absorption in polar cap, relation to solar proton intensity, (T), 23:41848
absorption in polar cap, study of loss coefficient diurnal variations in D region during, (T), 25:33132
absorption in polar regions due to flare of July 7, 1966, (E), 23:22818
absorption in subauroral latitudes, cosmic noise, (E), 25:40456
absorption in the auroral zone at 30 Mc, morphology, (E), 22:41460
absorption in the ionosphere, (E), 22:11325
absorption in the ionosphere, (T), 22:19896
absorption in vicinity of geographic North Pole, auroral, 21:5182
absorption in weakly ionized plasma near electron cyclotron harmonics, (E), 24:17984
absorption in whistler mode of propagation at low latitudes, vlf, (E/T), 21:41935
absorption in winter ionosphere, dependence on equivalent frequency, (E), 23:34343
absorption measurements at Colombo and Singapore in ionospheric D and E regions, lunar oscillations in, (E), 25:38217
absorption measurements in E and F region ionosphere, 24:30249
absorption measurements in equatorial ionosphere, pulse-reflection technique for longitude and solar activity-dependent, (E), 25:35970
absorption of auroral cosmic noise, short-period, 22:34419
absorption of auroral cosmic, relation to auroral vlf electromagnetic-wave emission, (E/T), 25:55999
absorption of auroral, conjugate and closely spaced observations of, (E), 25:14118
absorption of cosmic background, in ionosphere, (E), 23:20818
absorption of cosmic noise, relation of solar activity and ionospheric, (E/T), 23:25173
absorption of cosmic, during flares from UV Cet-type stars, (E), 24:17421
absorption of cosmic, effects of geomagnetic activity on auroral, (E), 23:20789
absorption of cosmic, in auroral zone during July, Aug., and Sept. 1966, (E), 24:21676
absorption of cosmic, in auroral zone, correlation with x-ray emission, (E), 24:26068
absorption of cosmic, in auroral-zone ionosphere, frequency dependence of abnormal, (E), 23:3384
absorption of cosmic, in interstellar medium in plane of Galaxy, (E), 23:51225
absorption of cosmic, ionospheric, (E), 22:11330
absorption of cosmic, M-region effect correlated with auroral, 21:3596
absorption of cosmic, near geomagnetic noon in auroral zone, (E), 23:30411
absorption of cosmic, relation to solar radio bursts, (E), 22:7126
absorption of cosmic-noise, correlation with auroral pulsations, (E/T), 25:58858
absorption of cosmic-noise, in auroral zone, (E), 24:12746
absorption of cosmic-noise, in auroral zone, movement of, (E), 24:12747
absorption of extragalactic, by neutral interstellar hydrogen, (E), 24:12613
absorption of hf, in aurorae, 23:44343
absorption of ionospheric, relation to abnormal hf noise enhancements at Syowa Station, Antarctica, (E/T), 25:38242
absorption of mid-frequency, irregular strength variations of diurnally-distributed, (T), 25:9323
absorption of nonthermal, in thermal x-ray sources, (T), 22:43770
absorption of oblique incidence-reflected hf, in winter ionosphere, (E), 25:27595
absorption of vhf—uhf, in the ionosphere, (E), 22:34356 (AD-663111)
absorption of vlf, in southern auroral zone, (E), 23:18523
absorption of, relation of associative detachment in mesosphere to polar-cap, (T), 23:27506
absorption of, relation to midlatitude bays of auroral, (E), 25:2964
absorption of, solar microwave flux correlated with sudden cosmic noise, 21:23112
absorption on Feb. 5, 1965, polar cap, (E), 22:24121
absorption on Wake Island from July 9, 1962 high altitude thermonuclear explosion, 22:18977
absorption pulsations in auroral zone, cosmic noise, 21:31317
absorption structure in auroral zone over distances approximately 300km, (E), 22:24161
absorption variations at Ibadan and Colombo, solar-cycle constant for equatorial ionospheric, (E), 25:49811
absorption, effects of properties of ionosphere on, 21:46245
amplification in beam—plasma systems, (E/T), 24:15292
amplification in partially ionized gases, 21:15176
amplification mechanism for vlf whistler mode, in magnetosphere, (E), 23:1279
amplification of vlf emissions in magnetospheric regions, 21:25025
amplification of vlf, in charged-particle beam interaction with magnetosphere, (E), 25:35972
amplitude perturbations of vlf, in Antarctic due to nuclear explosion of July 9, 1962, (E), 22:13362
amplitude scintillations of satellite, during sunrise, (E), 23:3373
amplitude variations of, due to sporadic E, (T), 23:6942
attenuation by troposphere at 0.4 to 10 GHz, (E/T), 22:22010
attenuation in atmosphere at 1415 MHz, (E), 25:13838
attenuation in ionosphere, methods for calculating lf and vlf, 21:23077 (RM-5296-PR)
attenuation in ionosphere, relevance to ionospheric plasma instabilities, (E/T), 25:11806
attenuation of 19-GHz solar, in atmosphere, (E), 25:43071
attenuation of galactic, in ionosphere, 21:18522
attenuation of solar, at 19 and 37 GHz, (E), 25:19438
auroral-zone absorption of cosmic, relation to magnetic activity, (E), 22:48028
background at 2.1 MHz, extragalactic, (T), 22:47779
background at 2695 MHz, unresolved galactic, (E), 23:41880
background at 9,370 MHz, atmospheric, (E), 25:24997
background in evolving model universes, metagalactic, (T), 22:13102
background noise in Antarctica, relation to aurora, (E), 23:3329 (AD-671303)
background noise sudden enhancements of atmospherics (SEA) due to solar flares during the IGY, (E), 23:34328
background variations at the plasmapause, vlf, (E), 22:29331
background, contribution of infrared galaxies to, (T), 23:5187
book: High-Frequency Radio Communications with Emphasis of Polar Problems, 22:46039
book: Ionospheric Radio Propagation, 22:5273
book: Oblique Ionospheric Radiowave Propagation at Frequencies Near Lowest Usable High Frequency, (T), 24:21700
book: Propagation Factors in Space Communications, 22:46038
book: Solar Radio Emission, in Russian, 24:37093
chains of type-I bursts of solar, 21:2007
conference on application of atmospheric studies to satellite transmissions, Boston, Mass., 9/69, 24:45112
conference on ionospheric radio communcations, Finse, Norway, April 1967, 22:46017
conference on progress in radio science, (T), 22:34364 (CONF-660950-(Pt.2))
conference on progress in radio science, (T), 22:34363 (CONF-660950-(Pt.1))
correlation of 10.7-cm flux with sunspot activity over 11-year solar cycle, 27-day periodicity of, (E/T), 25:27362
correlation of auroral radar echoes and x rays in southern auroral zone, (E), 25:9320
cosmic background, and isotropic world models, (T), 23:16620
cosmic background, brightness temperature of, (E), 25:33034
cosmic background, emission in Milky Way at 0.4 to 6.5 MHz, spectrum, (E), 23:48650
cosmic background, galactic and extragalactic components of, (E), 25:22290
cosmic background, lunar occultation of, (E), 24:51320
cosmic background, spectral index of, (E/T), 25:35807
cosmic-background, absolute temperature measurements of, (E), 23:51224
cosmological significance of integrated extragalactic background, (T), 23:10423
cutoff for vlf, in high-latitude exosphere, (E), 23:39387
cyclotron-resonance interaction of whistler-mode, in magnetosphere, (T), 23:12663
damping in Earth's atmosphere, 22:5217(T) (NRC-TT-1302)
damping in electron beams, 21:24919
deflection by solar gravity, method for detecting, (T), 21:37633
deflection in solar gravitational field, (E), 25:58662
detecting elf noise, instrumentation for, 21:41300
detection and measurement of afternoon radio aurora at 1295 MHz, (E), 23:10506
detection from Jupiter radiation belt, polarized, 23:10430
detection in association with extensive air showers, (E), 21:18479
detection in cosmic shower, (E), 23:25168 (AD-678193)
detection in magnetosphere of elf, spatial extent and frequency of occurrence, 23:12678
detection near galactic anticenter, at 40, 60, and 70 cm, (E), 23:10469
detection of background, from galactic halo, 23:20625
detection of banded chorus, in magnetosphere at vlf, (E), 23:30427
detection of cosmic decameter, apparatus for, 22:52554
detection of extragalactic component of background, (E), 23:41832
detection of low-frequency, in distant magnetosphere, 24:21685
detection of vlf chorus, in association with bursts of precipitating electrons, (E), 22:22051
diffraction by ionosphere, bispectral analysis of, (T), 21:20655
diffraction from Explorer 22, tropospheric, (E), 23:27510
diffraction of satellite-transmitted, by ionospheric irregularities with sharp boundary, (E), 23:16729
diffraction of vlf, by moon, 24:23852 (D-1-82-939)
diffraction on a regular phase screen, (T), 23:32247
dispersion measure and rotation measure of interstellar, effect of electron density on, (T), 25:40311
dispersion on passing through galactic neutral hydrogen, anomalous, (T), 21:41731
distortion of elf pulsed, after propagation through an antipode, (T), 23:30425
Doppler dispersion measurements of satellite-emitted, for local electron concentration, (T), 22:15425
Doppler shift on propagation through ionosphere, (E), 22:36846
Doppler shifts of fixed-frequency, between conjugate hemispheres, (E), 24:6427
dose to man, basis of standards for, 24:46681
echo propagation along field-aligned electron-density enhancements, long-delay, (E/T), 25:40466
echoes observed by Alouette 2 at Singapore longitudes, conjugate, (E), 24:5083
echoes of auroral, production of pulsating, 21:33284
echoes of vhf auroral, behavior of, 21:5196
echoes of vhf auroral, correlated with optical emissions from aurora, 21:35101
echoes of vhf auroral, diurnal and seasonal variations in occurrence of, 21:5195
echoes of vhf auroral, wavelength dependence and aspect sensitivity of, 21:37291
effect of shortwave fadeouts on trend of ionospheric absorption to solar x-ray flux, (E), 25:30362
effects of 10.7-cm solar, on ionospheric F region, (E), 22:19872
effects of 10.7-cm solar, on topside ionosphere, (T), 22:19878
effects of elf, negative ion detection in ionosphere from, (E/T), 21:5143
effects of finite bandwidth, on observations of interplanetary scintillation, (T), 22:41261
effects of geomagnetic field on, signal in oblique sounding, 21:29123
effects of high altitude nuclear explosions on, 21:19788
effects of ionospheric ionization gradients on frequency correlations of, 21:5187
effects of polar cap absorption on cosmic, (T), 22:31730
effects of sudden ionospheric disturbances on transmission at 164 kc, (E), 21:20873
effects of, on biological materials, 21:14739
effects on behavior of mice and gerbils, electromagnetic chamber for studying, 23:47682
effects on biological systems, 21:39512
effects on body temperature of yellow mealworm larvae in relation to survival, 22:8607
effects on conditioned reflexes in rats, effects of short and ultrashort, 25:16323
effects on content of serum proteins in guinea pigs, effects of modulation on, 23:26700
effects on development of legs of Tenebrio molitor following larval exposure, 22:10847
effects on electrical activity of brain cortex of rabbits, 24:34673
effects on F layer of ionosphere, (T), 23:51450 (AD-689662)
effects on function of endocrine glands in rats, high and low frequency, 22:51994
effects on growth of Chlorella pyrenoidosa, 24:48743
effects on health of personnel, 24:2684

effects on heating of F region, high-frequency transmission experiment near Boulder, Colorado, (E), 25:7264
effects on heating of F region, results from 1.27-μ measurements of, 25:7269
effects on heating of F region, very high-power, high-frequency ground-based, (E), 25:7270
effects on human pituitary gland, comparison of radioisotope implantation, external irradiation, and, 23:29700
effects on incidence of inflammation in skin of rats following intracutaneous injection of Escherichia coli, 22:19406
effects on insects for population control, 22:17068
effects on ionospheric F layer, (E), 22:15477
effects on man, 24:46681
effects on man, effects of electromagnetic fields on, 22:23649
effects on man, review of, 24:32258
effects on metabolism in human leukocytes, effects of dose on, 22:36197
effects on metabolism in larvae of Tenebrio molitor, 22:8608
effects on radiation survey instruments, 25:23932 (BRH/DEP-70-26, pp 173-81)
electromagnetic coupling phenomena in Earth—ionosphere cavity, (T), 22:36847
emission above active regions in solar corona, (E), 22:11182
emission as aurora, morphology of southern zone of, (E), 23:27477
emission at 0.8 cm from Mercury phase dependence of, (E), 22:52450
emission at 1.6 cm from flocculi and sunspots, (E), 23:5179
emission at 10.2 cm from Sun, observation of microbursts of, (E), 21:37004
emission at 10.7 cm of solar, relation to coronal brightness, (E), 23:39192
emission at 1420 MHz from Sun, relation to photospheric magnetic fields, (E), 23:30258
emission at 1470 MHz from Sun, absolute calibration method for daily patrol of, (E), 23:51285
emission at 16 and 30 GHz during solar eclipse of Mar. 7, 1970, (E), 24:48958
emission at 169 MHz from Sun, relation to coronal enhancements, (E), 23:39206
emission at 2 cm from solar active regions, slowly varying component of, (E), 23:36434
emission at 3.3 cm from Sun, quasi-periodic intensity variations of, (E), 23:20637
emission at 3.5 mm, 4.3 mm, and 2.0 cm from solar limb, (E), 24:10287
emission at 44, 105, 239, and 408 MHz from extensive air showers, (E), 23:27406
emission at 5 cm from highly charged ions in solar corona, (E), 23:51268
emission at 520 MHz from extensive air showers, (E), 22:13280
emission at 6 cm from Jupiter, linear polarization of, (E), 23:22864
emission at 612 Mc of solar, slowly varying component of, (E), 23:36435
emission at 8 mm of solar, telescope for, (E), 21:16709
emission at 9.1 cm from Sun during solar minimum, slowly varying components of, (E), 23:39193
emission at 9.1 cm from sun during sunspot minimum, 21:46105
emission at decimeter wavelengths from Sun, total, (E), 24:1207
emission at high latitude, natural elf, 21:41946
emission at mid-latitudes of vlf, effects of magnetic activity on, (T), 23:10551
emission at vlf from upper ionosphere, detection of bursts of, (E), 23:10571
emission at vlf in auroral zone during sharp dips in ionospheric absorption, (E), 24:1316
emission at vlf in ionosphere by Cherenkov mechanism, (E), 24:35297
emission below 1500 km, correlation of plasmapause location on elf, (E), 24:51548
emission during 20th solar cycle, relation to soft x rays, (E), 25:19430
emission during atmospheric nuclear explosions due to gamma differential scattering, (T), 24:5044 (LA-4253)
emission during auroral and geomagnetic disturbances, vlf noise, 21:41945
emission during July 12, 1961, solar flare, mechanism for decametric, (T), 21:37003
emission during solar eclipse of May 20, 1966, (E), 23:34224
emission during solar flare of Oct. 30, 1968, (E), 24:3123
emission during solar maximum, (T), 22:43725
emission for given field-line and electron-stream parameters, spectral shapes of magnetospheric vlf discrete, (E/T), 25:30372
emission from 3C 225 and 3C 267, location of compact source in, (E), 21:39776
emission from active centers of solar corona, 127-MHz interferometric study of, 21:43744
emission from Ap stars, (E), 24:39740 (AD-704794)
emission from aurorae at 28 Mc, (E), 23:36590
emission from aurorae, (E), 23:27509
emission from auroral zone, (T), 22:9222
emission from auroral zone, vlf, 25:17014
emission from auroras, irregularities in, (E), 22:29368
emission from barred galaxies, relation to appearance of central region, (E), 23:3231
emission from behind-the-limb flares, (E), 21:37006
emission from bright normal galaxies, (E), 22:4925
emission from Cas A and Tau A at 3.64 and 1.94 cm, 21:37088
emission from center of Milky Way, (E), 23:27318
emission from chromosphere and transition layer, (E/T), 25:40260
emission from chromospheric layers, dip in spectrum of, (T), 22:29077
emission from clusters of galaxies, (E), 22:7078
emission from coronas of M supergiant stars, (T), 25:52527
emission from cosmic showers, (E), 21:9361
emission from cosmic showers, mechanisms for, (T), 24:32690
emission from cosmic showers, polarization of, (E), 24:32689
emission from cosmic showers, test of mechanism for, (T), 21:18474
emission from cosmic sources, coherent synchrotron mechanism for, (T), 21:33102
emission from Crab Nebula at 3.3 cm, (E), 22:13110
emission from diffuse interstellar gas, (E), 25:6999
emission from discrete region on east limb of sun, lunar occulation of, (E), 22:21786
emission from EAS, Cherenkov and scintillation counter search at zenith for 200- and 3000-MHz, (E), 24:1498
emission from east limb of Sun during eclipse of May 20, 1966, (E), 21:33035
emission from extensive air showers, 24:21624
emission from extensive air showers at large zenith angles, 21:5092
emission from extensive air showers, (E), 21:23031
emission from extensive air showers, (E), 23:42005
emission from extensive air showers, (E/T), 25:4987
emission from extensive air showers, atmospheric electric field produced, (T), 21:37216
emission from extensive air showers, coherent, (E), 21:29034
emission from extensive air showers, coherent, (E/T), 25:1031
emission from extensive air showers, energy and radial dependence of pulsed, (E), 24:42544
emission from extensive air showers, frequency spectrum of, (E), 24:12668
emission from extensive air showers, lateral distribution of, (E), 25:38177
emission from extensive air showers, mechanism, 23:44203
emission from extensive air showers, mechanism for, (T), 21:33228
emission from extensive air showers, mechanism for, (T), 22:24085
emission from extensive air showers, mechanism for, (E/T), 21:33229
emission from extensive air showers, uhf pulsed, (E), 24:42542
emission from extensive, air showers at 3.6 MHz, (E), 25:45320
emission from fast charged-particle beams, (T), 22:36579
emission from fast ions in cosmic radiation, (T), 23:27399
emission from flare stars in Orion Nebula, (E), 24:10226
emission from galactic center region, (E/T), 25:45274
emission from galactic center, (T), 24:19670
emission from galactic central region, symmetrical pattern in, (E), 21:6956
emission from galactic disk of nonthermal, (E/T), 23:34242
emission from galactic OH, stimulated, (T), 22:52340
emission from geomagnetically trapped particles, (T), 22:9190
emission from H II regions, (T), 24:4938
emission from H II regions, enhancement of stimulated, (T), 22:29132
emission from H II regions, recombination-line data for, (T), 23:44078
emission from Haro's blue galaxies at 9.26 cm, (E), 22:45914
emission from head shock wave at magnetosphere boundary, (E/T), 21:5171
emission from helically moving relativistic electrons, corrections for, (T), 22:34160
emission from high-density dust-filled H II regions, (T), 23:44079
emission from hydrogen in gaseous nebulae, solution of b/sub n/ problem for, (T), 23:36327
emission from infrared and T Tauri stars, search for, (E), 22:5001
emission from inner corona, (E), 22:17231
emission from instabilities and shock waves in solar corona, (T), 23:51277
emission from intergalactic plasma, (E), 24:51320
emission from intermediate-velocity clouds of hydrogen in Milky Way, (E), 22:41202
emission from interstellar dust of millimeter, 23:48687
emission from interstellar hydroxyl clouds, (T), 23:41813
emission from interstellar OH by maser action, (T), 23:34160
emission from Jupiter and Saturn at cm wavelengths, (E), 21:39891
emission from Jupiter at 18 Mc, evidence for continuum, (E), 22:4996
emission from Jupiter at 18 Mc, polarization of, (E), 22:29009
emission from Jupiter at 6 cm, linear polarization of, (E), 22:41151
emission from Jupiter at 610 Mc, (E), 21:39893
emission from Jupiter at 620 and 2650 Mc, (E), 22:19720
emission from Jupiter at 9.26 cm, circular polarization of, (E), 24:10362
emission from Jupiter at decameter wavelengths, (E), 21:39885
emission from Jupiter at decametric wavelengths, periodic terms in, (E), 24:19704
emission from Jupiter at low frequencies, flux density of, (E), 25:7127
emission from Jupiter of decameter, modulation by Io of, (T), 23:34256
emission from Jupiter of decametric, drift patterns in dynamic, (E), 23:5203
emission from Jupiter of decametric, waveform and source-size studies of, (E), 25:11670
emission from Jupiter of decametric, wide bandwidth observations of, (E), 22:8943
emission from Jupiter of decimeter, interoferometric study of, 21:6932
emission from Jupiter, commencement times and durations of noise storms, (E), 24:12623
emission from Jupiter, decametric determination by, 21:5037
emission from Jupiter, decametric, (E), 22:838
emission from Jupiter, delineation of decametric, (E), 21:29148
emission from Jupiter, effect of Io on decametric, (E), 22:17198
emission from Jupiter, effect of Io on, (E), 22:8953
emission from Jupiter, effect of position of Io on, (E), 21:27061
emission from Jupiter, effects of satellites II, III, IV, and V on, 21:20854
emission from Jupiter, high-resolution study at 24 and 36 MHz, (E), 21:27062
emission from Jupiter, Mercury, and Saturn at 1.53 cm, 21:6933
emission from Jupiter, observations at 6 cm, (E), 21:27063
emission from Jupiter, radiation belt measurements by, 21:3753
emission from Jupiter, review on, (T), 23:44146
emission from Jupiter, search for hectometric, (E), 24:42500
emission from Jupiter, size of region of, (E), 22:4965
emission from Jupiter, solar effects on, 22:52329
emission from Jupiter, solar-wind effects on, (E), 22:41152
emission from Jupiter, stimulation by Io, (T), 21:20863
emission from Jupiter, time structure of, (T), 21:39886
emission from layers in solar atmosphere, (T), 21:6957
emission from local area of Galaxy, (T), 23:18457 (N-68-21341)
emission from local spiral arm, (E), 22:41192
emission from lower active corona, model for type-IV, (T), 21:39724
emission from lunar surface, (E), 22:7099
emission from M31, (E), 22:34153
emission from magnetosphere, properties of vlf, 24:37354
emission from mercury at 3.4 mm during 1965 and 1966, 21:43704
emission from Mercury, brightness temperature of, (T), 23:5201
emission from Milky Way, (T), 24:1231
emission from moon at 0.8 cm, polarization in, (E), 22:812
emission from Moon at 30 to 60 cm, 22:828
emission from moon, polarization of integral, (T), 22:52461
emission from Moon, spectrum of, (E), 22:36606
emission from moving source in ionosphere, Doppler frequency shift of, 21:24993
emission from Neptune, Saturn, and Uranus at 11.3 cm, 23:39288
emission from ninety small galactic nebulae, (E), 25:9068
emission from normal galaxies, (E), 23:14554
emission from normal spiral galaxies, (E), 22:4945
emission from normal spiral galaxies, brightness distribution of, (E), 21:18403
emission from Nova Delphine 1967, upper limit to, (E), 22:34194
emission from OH region, possibility for intragalactic communications network, (T), 22:26106
emission from Orion nebula, (E), 24:4911
emission from planetary nebulae of thermal, (E), 21:26945
emission from proton flare regions, 21:16719
emission from proton flare regions, (E), 21:16721
emission from pulsar 0950, Faraday rotation of, (E), 22:41164
emission from pulsars, mechanism for, (T), 24:12546
emission from pulsars, mechanisms for, (T), 23:46183
emission from quasi-stellar galaxies, detection at 2800 MHz of faint, (E), 21:28930
emission from quasi-stellar galaxies, search at 408 MHz for, (E), 21:28931
emission from quiet Sun at 408, 696, and 1424 MHz, (E), 24:1214
emission from quiet Sun, (E), 22:36642
emission from quiet sun, (T), 23:20633
emission from region above sunspots, (T), 21:28886
emission from Sco X-1, flux density of, (E), 22:34195
emission from Seyfert Galaxy NGC 4151, (E), 22:21839
emission from shock waves in rarefied plasma, (T), 22:7086
emission from solar active regions at 408 MHz, (E), 22:4935
emission from solar active regions, flux density spectrum of, (E), 23:39207
emission from solar active regions, model for thermal gyromagnetic, (T), 22:29151
emission from solar activity centers at 35, 70, and 94 Gc, (E), 21:26950
emission from solar atmosphere, heights of, (E), 24:25918
emission from solar corona above active regions, (E), 23:36414
emission from solar corona during sunspot minimum, (E), 24:1217
emission from solar corona, slowly varying component of, (E), 25:55754
emission from solar flare of July 8, 1968, 23:44094 (AD-684438)
emission from solar flare regions, (E), 21:16720
emission from solar flares in July and August 1967, (E), 22:34197
emission from solar flares, (E/T), 23:6859
emission from solar flares, (T), 21:37025

emission from solar flares, flux density measurements of, 22:2955
emission from solar-active regions, (E), 24:3126
emission from solar-active regions, slowly varying component of, (T), 22:52442
emission from sources A and B on Jupiter, rotation period for, (E), 23:39287
emission from sources above sunspot groups, effects of magnetic field on flux of, 21:46095
emission from spiral galaxies, (E), 22:850
emission from spot groups, polarization of, (E), 25:19417
emission from spot groups, slowly varying component of, (E), 23:36438
emission from stars, aurora effects on visibility fades, 22:52632
emission from stellar coronae, (E), 23:27241
emission from stellar flares in the Orion Nebula, (E), 25:35616
emission from Sun at 80 MHz, (E), 23:34208
emission from Sun at centimeter and decimeter wavelengths, 21:3585
emission from sun at meter wave lengths, enhanced, (E), 21:3569
emission from Sun at millimeter wavelengths, spectrum of slowly varying component of, (E), 22:29164
emission from Sun at mm- and sub-mm wavelengths, (E), 22:36578
emission from Sun during 1964, data at 600 MHz, (E), 24:48966
emission from Sun during 1965, data at 600 MHz, (E), 24:48965
emission from sun during total eclipse of Nov. 12, 1966, (E), 22:4986
emission from Sun in 1966, (T), 22:26157
emission from Sun in association with x radiation, (T), 22:38681
emission from Sun of 1.2 mm, localized enhancements of, (E), 22:45856
emission from Sun of 1-cm, slowly varying component of, (E), 23:34223
emission from Sun of 10.7-cm, forecast technique, (T), 22:34142 (AD-666948)
emission from Sun of 10.7-cm, indexes from Jan. 1, 1955 to Dec. 31, 1969, (E), 25:2858 (N-70-32003)
emission from Sun of centimeter, relation to relative sunspot number, (T), 22:29163
emission from sun of cm and dm, effects of solar cycle on, 21:3585
emission from Sun, (E), 25:55736
emission from Sun, (T), 23:1114 (N-68-25666)
emission from sun, correlation of atmospheric potential gradient with, 21:23125
emission from Sun, correlation with variations in geomagnetic field and neutron component of cosmic radiation, 25:45321
emission from sun, observation of slowly varying component of, 21:46086
emission from Sun, observations at 3.15 cm, (E), 25:35760
emission from Sun, occultation of source by partial eclipse, (E), 22:888
emission from Sun, periodic fluctuations of, (E), 25:16687(T) (AD-712020)
emission from Sun, radioheliograph for studying, (E), 23:20594(R) (NP-17806)
emission from Sun, relation to photospheric fields, (E), 22:36667
emission from Sun, relation to x-ray emission, (E), 25:883 (AD-709205)
emission from sunspot groups, (E), 24:48961
emission from supernova remnants, nonthermal, (T), 22:49963
emission from supernova remnants, secular behavior of, (T), 25:13847
emission from turbulent plasma, (T), 25:7016
emission from two solar flares on Dec. 12, 1965, (E), 21:31148
emission from Venus at 3.12 cm, interferometry for, (E), 23:36461
emission from young massive stars, (T), 21:26946
emission generation and whistler propagation, vlf, 22:1042(R) (AD-648675)
emission in extensive air showers, at large zenith angles, 21:37310
emission in interplanetary space in the kilometer-wave range, (E), 21:36981
emission in magnetosphere, (T), 24:6439
emission in magnetosphere, elf, (E/T), 24:5043 (D-1-82-890(Rev.))
emission in magnetosphere, mechanism for triggering vlf, (T), 23:5323
emission in magnetosphere, relation of linear and nonlinear cyclotron instability with vlf, (T), 25:40497
emission in magnetosphere, relation to geomagnetic activity, (E), 24:5069
emission in solar flares in conjunction with 40-keV electrons, (E), 21:24888
emission in solar flares, (E), 23:22843
emission in solar flares, correlation with sudden ionospheric disturbances, (E), 21:16722
emission in space, effects of solar flares on, 22:6919
emission in Type-I solar bursts, mechanism of, (T), 21:560
emission observations at two conjugate points, vlf, 21:24982(T) (N-67-13235)
emission of 10.7-cm solar, relation to daily relative sunspot number, (E), 23:20638
emission of 10-cm and 1.5-m, relation to solar flare of July 11, 1966, (E), 25:35749
emission of 4.5-cm, from sunspot groups of small area, (E), 22:45899
emission of 4-GHz, from vicinity of galactic equator, (E), 23:39258
emission of 500 MHz, from cosmic EAS, (E), 24:42548
emission of background, in Milky Way, (T), 22:47723
emission of circularly polarized, from Crab Nebula, (E), 21:37052
emission of dawn chorus, relation between 15- to 150-keV electron precipitation and, (E), 24:17776
emission of decametric bursts from Jupiter, effects of Io on, (T), 23:22865
emission of discrete vlf, from electron interactions with whistler-mode waves in magnetosphere, 24:42596
emission of elf, in magnetosphere, (E), 24:17745 (AD-696292)
emission of elf, magnetospheric Alfven velocity correlation with, (E), 24:51551
emission of flash of, from low-altitude nuclear explosions, (T), 24:42551 (LA-4245)
emission of H56α, from Orion nebula, (E), 24:4912
emission of hydroxyl, from infrared stars, (E), 22:45839
emission of Jovian decametric, effect of first three Galilean satellites on, (T), 22:36605
emission of Jovian decametric, effects of first two Galilean satellites on, (T), 22:871
emission of Jovian decametric, fifth source of, (E), 23:6874
emission of magnetospheric vlf discrete, Helliwell criterion for electron energy spectra and structure deduced from, (E/T), 25:30371
emission of magnetospheric vlf, association with energetic charged particles, (E), 22:36801 (N-68-10067)
emission of magnetospheric vlf, whistler-mode convective beam-cyclotron instability generation mechanism of, (T), 25:30357
emission of natural low-frequency, 21:41938
emission of natural vlf, whistler mode and theory of, 21:41947
emission of nonthermal, from Jovian atmosphere, (T), 21:37314
emission of polar atmospheric vhf, following aurorae, (E/T), 25:33146
emission of polarized, from solar-active regions, (E), 25:47292
emission of pulsed, from center region of Milky Way, (E), 25:49681
emission of pulsed, from cosmic sources, (T), 22:29055
emission of pulsed, from extensive air showers, (E), 24:49045
emission of pulsed, from extensive cosmic air showers, (E/T), 21:9356
emission of pulsed, from galactic center in association with gravitational radiation, 25:33834
emission of pulses at MHz from cosmic air showers, (E), 25:33091
emission of pulses from EAS, search for, (E), 24:12540 (AD-695838)
emission of pulses from extensive air showers, (E), 25:24929
emission of pulses from extensive air showers, (E), 25:30333
emission of quasi-periodic vlf, ionospheric, (E), 24:5082
emission of slowly varying solar, during July 7, 1966, flare, (E), 23:22780
emission of slowly varying, from sunspot center which preceded flare of July 7, 1966, (E), 23:22781
emission of solar, 21:46213(R) (AD-647794)
emission of solar 9.1-cm, and relation to sunspots and magnetic activity, 23:39223
emission of solar decametric, relation to chromospheric eruptions, (E), 23:36439
emission of solar, effects on critical frequency variations of sporadic E layer, (T), 21:16724
emission of solar, model of slowly varying component from, (E), 23:44110
emission of solar, radiometer for, (E), 21:16228
emission of solar, relation of 606- to 8800-MHz solar radio bursts to S-component phase of, Nov. 1966 to April 1969, (E), 25:27364
emission of sub-elf, relation of negative ions in night ionosphere to, 21:18521
emission of submillimeter, from Sun, (E), 23:6842
emission of triggered vlf discrete, by whistler trains and man-made signals, (T), 25:43245
emission of uhf, from extensive air showers, (E), 23:42006
emission of ulf, relation of ionospheric disturbances, magnetic activity, and currents to, 21:46236
emission of vlf hiss, mechanisms for generation at geomagnetic low latitudes of, (T), 25:38224
emission of vlf hiss, near auroral zone, 21:5142
emission of vlf hiss, Poynting flux measurement at 677 to 2528 km of, (E), 25:22414
emission of vlf noise, from ionosphere, (E/T), 21:39870
emission of vlf, comparison of data from two conjugated points on, 21:15041
emission of vlf, distinction of day and night, by magnetic activity, (E/T), 23:32259
emission of vlf, during magnetic storms, (E), 23:16727
emission of vlf, during solar disturbance of May 23—26, 1967, (E), 22:52666
emission of vlf, in ionosphere, (E/T), 22:9204
emission of vlf, relation of geomagnetic pulsations to ionospheric, (E), 23:32257
emission of, associated with gravitational waves, (T), 25:2849
emission spectra at geomagnetically conjugate points, vlf, 21:41949
emission spectra from sun, brightness from, 21:26935 (TID-23760, pp 33-48)
emissions in polar chorus band during auroral absorption events, (E), 22:34399
enhancement factor and absorption of vhf, associated with solar flares, 21:6940
equipment development for use in analysis of planetary ionospheres, 21:31310 (NASA-CR-689)
Faraday rotation by solar corona during Pioneer 6 occultation, 24:4951
Faraday rotation in ionosphere during eclipse of Mar. 7, 1970, (E), 24:37383
Faraday rotation in ionosphere, (T), 24:17796
Faraday rotation in ionosphere, electron density and collision frequency from, 21:11489 (NP-16456)
Faraday rotation of high-frequency, across ionospheric transverse region, (T), 25:43254
Faraday rotation of high-frequency, effects of turbulent fluctuations on, (T), 24:23690
Faraday rotation of, propagation in Milky Way, (E), 23:48674
field intensity of, disturbances on July 7-9, 1966 of, (E), 22:24141
field strength of ionospheric reflected, effect of vertical movements on total, (E), 23:20804
flux density from quasars, relation to red shifts, (T), 21:41738
flux of solar, during IQSY, (E), 22:17206
fluxes at 2 and 3.2 cm from solar active regions, (E), 23:20639
focusing by artificially created ionospheric lens, (T), 24:12727
focusing by Earth's ionosphere, on moon, 22:47916
focusing by electron distribution between ionospheric layers, hf, 21:25037
focusing mechanism for hf, ionospheric, 23:25235
focusing of ionospheric-reflected, mechanisms of, (E/T), 24:45151
frequency changes in ionosphere, association with geomagnetic variations, (T), 21:23087
frequency changes in ionosphere, automatic system for recording, 22:45368
frequency shift on passing near the Sun, (T), 22:41270
frequency shifts of, ray theory of Doppler, 22:41446
frequency shifts on whistler mode, from stabilized vlf transmitter, 21:31318
frequency spectrum of cosmic background, at 6.3 to 40 MHz, (E), 23:25048
generation and location of mid-latitude vlf whistler-associated discrete emissions, dispersion analysis of, (E), 25:22415
generation by low-altitude atmospheric nuclear explosion, (T), 22:13363
generation by nuclear explosions of ionospheric, (E), 22:13369
generation during magnetic storms of vlf, at medium latitudes by transverse resonance instability, (E), 23:27480
generation of background hiss of polar chorus, from morning-side magnetospheric vlf waves, (E/T), 25:30358
generation of nonthermal, by coherent plasma waves, (T), 23:3207
generation of vlf, in magnetosphere, (T), 22:36798 (AD-666648)
hazards to human eyes from industrial, medical, military, and public applications, controls and protective programs for reducing, 24:46619
hazards to human populations, 24:34716 (CONF-690335, pp 13-25)
heating of F region by, absorbed-energy deposition in artificial, (E/T), 25:7273
heating of F region by, radio-reflectivity detection of artificial, (E/T), 25:7272
hiss at very low altitudes, vlf, (E), 22:15424
hiss production by electron injection into geomagnetic field, vlf, (T), 22:36852
identification of 4.2-cm, during solar eclipse of Nov. 12, 1966, (E), 22:34235
intensity decrease of vlf hiss on Sept. 3, 1966, (E), 22:24143
intensity fluctuations of, correlation between vlf and CNA, 21:25017
intensity from 0.45 to 3.0 MHz of cosmic, ATS II observations, (E), 23:36344
intensity of cosmic, at 700 to 950 km, (E), 22:36600
intensity of cosmic, ionospheric absorption from nighttime, 21:41921
intensity of frequency-dependent auroral hiss, correlation with soft electron fluxes, (E/T), 25:43246
intensity of radio noise flux correlated with sunspot cycle, 21:37335
intensity variation at 1.1 and 2.3 MHz of cosmic, parameters affecting, (E/T), 25:9352
intensity variations of vlf atmospherics, sudden integrated, (E), 25:40501
interaction in ionosphere, arbitrary-power pulsed, (T), 25:22436
interactions with nonhomogeneous plasma, 21:31442
interferometry of S-bursts from Jupiter, long-baseline, (E), 22:17315
ionospheric attenuation and refraction of low-frequency, (E), 23:20780
ionospheric heating by, effect on absorption of probing waves of ordinary and extraordinary polarization, (E/T), 25:11807
ionospheric plasma resonances of, periodicities in the amplitude of, (E/T), 23:12689
ionospheric propagation of, observations at Mirny in 1966, (E), 24:12708
ionospheric propagation of, review of experiments on, (E), 23:16705 (AD-673794)
ionospheric propagation, effect of F2 layer on scatter links in, (E/T), 25:2990
ionospheric transmission of satellite, scintillations over Australasia in, (E), 23:23008
measurement of field intensities of 400 MHz to 40 GHz, design of thin-film spherical bolometers for, 24:4513
measurement of lunar 1.8, 2.0, and 2.5 cm, (E), 21:33088
measurements of Earth—ionosphere cavity resonance frequencies at high latitude, 22:11333
meteor-burst communications in Arctic, effects of intense PCA event on, (E), 22:46027
mode conversion and refraction effects in Earth—ionosphere waveguide for vlf, (T), 22:31724
mode conversion in Earth—ionosphere waveguide of vlf, (T), 22:47987
monitoring at two conjugate points, ulf, 21:20872

monitoring for personnel safety, design and performance of audible sound producing detector for, 21:32497 (LA-3722)
morphology of satellite scintillation near sunspot minimum, (E), 23:42088
morphology of vlf, observed with Injun 3, (E), 22:47970
motion of, associated with ionospheric particle precipitation, (E), 23:42113
noise absorption in morning sector of auroral zone, effect on incoming proton intensity, slowly varying cosmic, (E), 25:58891
noise absorption, conjugate riometer studies of auroral-zone cosmic-, 24:35291
noise bursts at 3 MHz from lightning-flash radiation, pulse characteristics of, (E), 25:58876
noise enhancements at Syowa Station, hf abnormal, (E/T), 25:38242
noise production in magnetosphere by, frequency effect in vlf, (E), 23:23014
noise triggering in magnetosphere by Morse-code dots . from NAA, vlf, (E), 23:23013
observations at ground level of solar, effect of mode-coupling conditions for, (E), 25:47383 (AD-716614)
observations of Cygnus Loop 430, 195, and 41 MHz, (E), 21:43717
observations on Ariel III of vlf, (E), 23:42091
occurrence of Q-type bursts of elf, in Schumann resonance frequency range, 22:22059
origin of cosmic background, (T), 23:14579
origin of cosmic, theory of, 21:11345
origin of solar, MHD mechanism for, (T), 23:41859
origin of, from Vela X, (T), 25:43039
oscillations and noise-bursts, relation of solar flares to elf, 21:15031
performance for ionospheric measurements, 24:30243
phase anomalies during Dec. 1, 1967 solar flare, correlation of x-ray flux to vlf, (E), 25:38275
phase anomaly induced by June 17, 1967 nuclear explosion, vlf, (E), 22:24137
phase distortion in ionosphere, (T), 24:17796
phase fluctuations of satellite-transmitted ionospheric, (E), 22:36856
phase measurement of vlf, during solar eclipse Sept.22, 1968, (E), 25:2997
phase perturbation during transauroral propagation, fine structure of, (E), 22:52643
phase perturbations produced by solar protons, vlf, 22:5237
phase variance and autocorrelation during cosmic radio source visibility fades, (T), 22:31722
photon absorption by cosmic, probability for high-energy, 21:24944
polar blackouts, cosmic-noise recorder for, 21:27021
polar cap absorption in auroral zones, noon recovery of, 24:30258
polar cap absorption, relation to spectra of Type IV solar bursts, (E), 24:46936
polar-cap absorption associated with flare of July 7, 1966, (E), 23:22817
polar-cap absorption events, distribution of flares responsible for, (E), 25:32993
polar-cap absorption of, associated with flare of July 7, 1966, (E), 23:22819
polarization and brightness distribution of galactic nonthermal, (E), 21:43722
polarization and spectral dependence of fine structure in bursts of Jovian, (E), 21:9424
polarization in extensive air showers, coherent, 23:46325
polarization of 11-cm, from Jupiter, (E), 22:8938
polarization of 13-cm, on propagation through solar corona, (E), 25:24786 (N-70-35535)
polarization of auroral echo, (E), 24:35299
polarization of cosmic, 22:7121
polarization of cosmic OH 18-cm, (T), 21:18368
polarization of cosmic, distribution of position angles of, (T), 22:31572
polarization of galactic, at 1.21m, 22:17297
polarization of galactic, at 1407 Mc, 21:20712
polarization of galactic-background, linear, (E), 25:38112
polarization of Jovian decametric, (E), 25:9158
polarization of Jovian decametric, (E), 24:1262
polarization of Jovian decametric, circular, (E), 24:8318
polarization of scattered, on small-scale ionospheric inhomogeneities, (T), 23:32248
polarization of, emitted by OH radicals, (T), 23:18328
polarization plane of ATS-3, angle of rotation of, (E), 23:20812
production by nuclear explosions in the atmosphere, (T), 22:52640
production in astrophysical plasmas, (T), 23:34159
production in extensive air showers, (E), 23:30365
production in extensive air showers, (T), 21:41846
production in lower magnetosphere by Cherenkov processes, vlf, (E), 24:10443
production in neutral electric-field regions within powerful radio sources, (T), 25:58526
propagation across auroral zone, frequency limits for, (E), 22:46029
propagation across midlatitude polar cap, proton anomaly of PCA-associated very long, (E), 25:55996
propagation along field lines in magnetosphere, color spectrograms of vlf Poynting flux measurements of, (E), 25:30370
propagation along field lines in magnetosphere, vlf measurements of Poynting flux of, (E), 24:5084
propagation along geomagnetic field lines, measurements of, 24:5041(R) (AD-691831)
propagation and absorption in ionosphere, diagnostic uses of, 21:37278 (ESRO-SP-8)
propagation and detection of, 21:677(R) (AD-632266)
propagation and reflection in ionosphere, parameters affecting initial behavior of, (T), 25:16982
propagation and scattering by ionosphere at 4 to 64 MHz, (E), 23:36581 (AD-683337)
propagation around earth, general boundary value problem, (T), 21:23083
propagation around earth, geomagnetic field effects on, (T), 21:46229
propagation around earth, vlf, (T), 21:23084
propagation at 2292 MHz in solar corona, Faraday rotation in, (E), 24:46947
propagation at high latitudes, effect of ionospheric and geomagnetic disturbances on, 22:46024
propagation at vhf, in transequatorial ionosphere, (E), 22:22041
propagation at vlf in Earth—ionosphere waveguide, (T), 23:10538
propagation at vlf in ionosphere, effects of solar x rays on, (E), 23:27312
propagation at vlf in the lower ionosphere, (T), 23:42102
propagation at vlf in whistler mode in ionosphere, relation to disturbances in magnetic field in plasmasphere, (E), 24:45095
propagation below anisotropic ionospheres, vlf modes of, (E), 23:20767
propagation below inhomogeneous isotropic ionospheres, attenuation of elf and vlf, (E/T), 25:9292
propagation below maximum of ionospheric F2 layer, waveguide ducts for, 21:39878
propagation below stratified ionosphere, vlf, (T), 21:31316
propagation beneath inhomogeneous anisotropic ionosphere, elf and vlf, (E/T), 25:27506
propagation characteristics of elf, in ionosphere, (T), 23:6916
propagation constant of terrestrial waveguide, elf, (T), 22:5252
propagation during PCA events, relation to ionization by solar protons, (E), 25:1075
propagation from geostationary satellite Canary Bird, Faraday rotation of 136-MHz, 23:51469
propagation from satellites of, Faraday rotation determination for ionospheric electron content and variations, (E/T), 25:9294
propagation from stars, scintillation measurements by phase-sweep system at 68 Mc of, 21:2105
propagation from stars, scintillation observed at subauroral latitude of, 21:2106
propagation group path and polarization rotation of, 22:52674
propagation in an ionospheric layer, phase-path variations for, (T), 23:5289
propagation in anisotropic inhomogeneous ionsphere, ray path calculation of, 24:17841
propagation in anisotropic plasma, (T), 22:1173 (AD-647683)
propagation in astrophysical plasma, polarized, (T), 23:51656
propagation in auroral ionosphere, fading on, (T), 22:46033
propagation in auroral region, observation of vlf, 25:17013
propagation in auroral zone, magnetic disturbances from, (E/T), 24:6452
propagation in auroral zone, vhf bistatic backscatter phenomenon in, (T), 22:46028
propagation in Earth—ionosphere waveguide, coupled vacuum-mode analysis of vlf, (T), 25:33122
propagation in F2, F1, and E layers, prediction system for, (T), 22:24186
propagation in high-latitude D region, seasonal-dependent chemical changes of, (E/T), 25:9297
propagation in ionosphere and electron density perturbations by rockets, 21:25011
propagation in ionosphere and magnetosphere, (T), 23:20792
propagation in ionosphere at 2.2 and 4.5 MHz, (E), 24:6418
propagation in ionosphere at sunrise, vlf, (E/T), 24:17839
propagation in ionosphere at vlf, effects of electron-density variations, (T), 22:34367
propagation in ionosphere from satellites, seasonal variations of scintillation of, 21:2107
propagation in ionosphere from stars and satellites, scintillation of, (T), 21:2102
propagation in ionosphere high latitudes, stepped-frequency oblique soundings in, (E/T), 22:46031
propagation in ionosphere near lowest usable high frequency, (T), 24:21700
propagation in ionosphere of 100-kHz pulses of, during July 1963 and Mar. 1970 solar eclipses, (E), 24:37374
propagation in ionosphere of elf, F-layer reflections and ion effects in, (E), 24:26079
propagation in ionosphere of satellite-ORBIS transmitted, 21:2111
propagation in ionosphere, (T), 22:2918
propagation in ionosphere, (T), 22:38907
propagation in ionosphere, (T), 22:44011
propagation in ionosphere, (T), 22:44017
propagation in ionosphere, (T), 23:8535
propagation in ionosphere, (T), 23:20769
propagation in ionosphere, auroral and polar cap absorption effects on, 22:46018
propagation in ionosphere, bearing deviation of hf, 23:8527
propagation in ionosphere, bearing deviation of hf, 23:8528
propagation in ionosphere, calculation of Doppler shift for, 21:43896
propagation in ionosphere, composite theory for diffraction and refraction in, (T), 24:39926 (APD-15)
propagation in ionosphere, correlation with F2-layer critical-frequency distribution changes, (E/T), 25:22452
propagation in ionosphere, cross modulation in, (T), 23:12672
propagation in ionosphere, differential equations for, (T), 23:44236 (AD-682489)
propagation in ionosphere, divergence of rays, 21:43897
propagation in ionosphere, Doppler effect in, 23:46388
propagation in ionosphere, Doppler shift in ground backscatter and retransmitted signal of, (E), 25:7260
propagation in ionosphere, Doppler shifts on hf ground backscatter, (T), 23:10510
propagation in ionosphere, effect of earth-centered dipole magnetic field on, (E/T), 23:12691
propagation in ionosphere, effect of geomagnetic field on reflection and transmission of, (T), 25:58869
propagation in ionosphere, effect of perturbations of vlf, 24:30240
propagation in ionosphere, effects of acoustic—gravity waves on hf, (E/T), 24:45162
propagation in ionosphere, effects of auroral disturbances on vlf, 21:35102
propagation in ionosphere, effects of electron-density irregularities on lateral deviation in, (T), 21:37337
propagation in ionosphere, effects of field-aligned irregularities on, 21:43898
propagation in ionosphere, effects of solar eclipse on phase of vlf, 23:39375
propagation in ionosphere, electron density distribution effects on MUF, hop distances, and angles of arrival, 24:6451
propagation in ionosphere, electron-density distribution effects on MUF, one-hop link short-wave, (E/T), 25:22439
propagation in ionosphere, elf, 21:41927
propagation in ionosphere, Faraday rotation theory in quasi-transverse, (T), 23:36599
propagation in ionosphere, interaction of vertical disturbed-pulsed, (T), 25:16974
propagation in ionosphere, latitudinal cutoff of vlf in, (E), 23:25229
propagation in ionosphere, low-frequency cutoff for elf, (E), 23:5321
propagation in ionosphere, lower hybrid resonance in, (E), 23:10499
propagation in ionosphere, magnetic-storm effects on, (T), 23:44237(T) (AD-682507)
propagation in ionosphere, magneto-ionic mode coupling near transverse region in, (E), 24:6419
propagation in ionosphere, magneto-ionic mode coupling of hf, (T), 25:58870
propagation in ionosphere, magneto-ionic mode coupling of hf, (T), 25:58871
propagation in ionosphere, mechanism of very long-delayed radio echoes, (E), 25:7277
propagation in ionosphere, mode theory of whispering-gallery guidance at hf and vhf, (T), 25:17037
propagation in ionosphere, model of scintillations in, (T), 24:42550 (HSA-148)
propagation in ionosphere, near equator, (E), 22:2965
propagation in ionosphere, oblique, (E/T), 24:19809
propagation in ionosphere, progress in, (T), 23:42041
propagation in ionosphere, pulse width effects on, (T), 21:23065 (AD-640978)
propagation in ionosphere, ray theory for, (T), 23:32263
propagation in ionosphere, ray-tracing study of vlf, 21:46274
propagation in ionosphere, refractive index, absorption index, and polarization parameters, 21:5204
propagation in ionosphere, relation of solar radio bursts to sudden frequency deviations of, (E), 24:5055
propagation in ionosphere, scintillation observations at conjugate points, (E), 22:38915
propagation in ionosphere, scintillations at low latitudes, (E), 24:26078
propagation in ionosphere, signal distortion in, (T), 24:3242
propagation in ionosphere, solar flare effects on, (E), 22:31541
propagation in ionosphere, sporadic E effects on, (E), 21:9411
propagation in ionosphere, sporadic-E, 21:35110
propagation in ionosphere, sporadic-E, (E), 22:46032
propagation in ionosphere, spread-F effects on, 21:29152
propagation in ionosphere, sunrise effect on vlf, 21:15037
propagation in ionosphere, theory of whistler, (T), 23:22984
propagation in ionosphere, ulf, (T), 22:2921
propagation in ionosphere, vlf field fluctuations in, 21:43902
propagation in ionosphere, wave interaction equation for, (T), 23:44234 (AD-681774)
propagation in ionospheric F region, effect of horizontal gradients on, 24:1333
propagation in ionospheric F2 layer, optical observations of electron heating produced by, 25:7268
propagation in ionospheric sporadic E and F layers, second-order theory of phase-path difference of, (E/T), 25:16881 (AD-711394)
propagation in lower ionosphere and solar flare effects, 21:31320
propagation in lower ionosphere at vlf, solar flare effects on, (E), 22:19853 (RAE-TR-67201)
propagation in lower ionosphere, vlf, 21:46213(R) (AD-647794)
propagation in magnetoionic media, (E), 22:34684
propagation in magnetosphere, chorus, elf and vlf hiss, and whistler, (E), 24:42587
propagation in magnetosphere, effects of plasmapause on, (T), 22:38920
propagation in magnetosphere, elf, (E/T), 24:5043 (D-1-82-890(Rev.))
propagation in magnetosphere, review of progress in, (T), 23:42042
propagation in nighttime ionosphere, effects of cosmic x rays on vlf, (E), 24:5072
propagation in outer magnetosphere, quasi-trapped vlf, 21:5129 (AD-637472)
propagation in outer magnetosphere, quasi-trapped vlf, 21:13455
propagation in plasma in inhomogeneous magnetic fields, (E), 24:49224

propagation in plasma near frequency of damped oscillations, energy density and velocity in, (T), 23:20969
propagation in plasma near frequency of damped oscillations, energy density and velocity in, (T), 23:20968
propagation in polar ionosphere, satellite-transmitted, 21:7098
propagation in presence of ionospheric electrostatic fields, whistler-mode, (T), 23:12645
propagation in quiet ionosphere, effect of irregularities on long-distance hf, (E/T), 25:36003
propagation in random medium, (T), 22:5256
propagation in solar atmosphere, (T), 22:26193
propagation in sporadic-E layer, (E), 23:51520
propagation in stratified ionosphere, reciprocity theorem for magnetoionic modes, (T), 25:24994
propagation in the ionosphere, effects of solar cosmic rays on, 22:2877
propagation in the ionosphere, topside sounding, (E), 23:25200
propagation in topside ionosphere, oblique z-mode, 21:5144
propagation in topside ionosphere, ray trajectories near upper hybrid resonance from, (T), 24:6424
propagation in turbulent magnetoplasma, index of refraction for, (T), 24:15369
propagation in upper atmosphere, bibliography on 1966 Soviet studies on, 22:17461(T) (JPRS-44343)
propagation in whistler mode, vlf, 21:46273
propagation measurements in interplanetary space, 22:41268
propagation near magnetic equator, stability of low-frequency, (T), 24:3243
propagation of elf and vlf, below models of naturally perturbed ionospheres, (T), 22:36857
propagation of elf and vlf, during sudden ionospheric disturbances, (T), 24:21692
propagation of elf and vlf, in perturbed ionosphere, electron and ion parameters for, 24:42566
propagation of elf, in magnetosphere, (E), 24:17745 (AD-696292)
propagation of hf ionospheric, effect of nuclear explosion-associated acoustic wave on vertical, (E/T), 25:22429
propagation of hf, ray-tracing study of, 21:2110
propagation of ionospheric multipath short, effect on communication equipment, (E/T), 25:16930
propagation of ionospheric vlf, correlation with particle fluxes, Kerguelen Islands-launched rocket study of, (E/T), 25:7237
propagation of ionospheric vlf, interaction with particles, Kerguelen Islands-launched rocket study of (E/T), 25:7236
propagation of ionospheric, at 16 to 3000 kHz, reflection properties of, (E), 25:1059
propagation of lf- and vlf, in ionosphere D region, electron content effects on, (E/T), 22:9208
propagation of low-frequency, in ionospheric D region, (E), 23:1285
propagation of medium and long, during PCA and high solar activity in 1968, (E), 25:45373
propagation of solar, through troposphere, (E), 23:14680
propagation of terrestrial elf, 21:41948
propagation of trans-equatorial vhf, in ionosphere, relation of F-region equatorial anomaly to, 23:51467
propagation of vhf, in auroral-zone ionosphere, (E), 22:46026
propagation of vlf and hf, in ionosphere during solar proton events of Aug. 28 and Sept. 2, 1966, (E), 24:6423
propagation of vlf, correlation with plasmaspheric and plasmapause phenomena, (E/T), 25:49817
propagation of vlf, effects of ionospheric disturbances on, (E), 22:46025
propagation of vlf, effects of Mar. 18 and Sept. 11, 1969 annular solar eclipses on phase deviations of, (E), 25:9105
propagation of vlf, effects of PCA events on, (E), 23:42111
propagation of vlf, effects of PCA events on, July 1966 to December 1968, (E), 25:5020
propagation of vlf, in auroral zone, (E), 22:47952
propagation of vlf, in earth—ionosphere waveguide, (T), 23:1266
propagation of vlf, in magnetosphere, (E), 23:30405
propagation of vlf, magnetospheric, (E), 22:22021
propagation of vlf, over polar latitudes, detection of PCA in, (E), 23:10518
propagation of vlf, solar flare effects on, (T), 22:34199
propagation of vlf, sounding of lower polar ionosphere by, (E), 24:6428
propagation of, design of electrical length bridge for measuring time delay in, 25:54381 (SC-DR-710384)
propagation of, hf predictions for Arctic, (T), 22:46030
propagation of, nuclear explosion effects on ionospheric, 23:27428 (AD-680983)
propagation on near-Earth traces, amplitude and phase fluctuations in, (E), 23:22983
propagation over trans-equatorial paths, influence of equatorial anomaly on vhf, 21:43927
propagation path of polar vlf, mode conversion and auroral effects on, (E/T), 25:45365
propagation through ionosphere during aurorae, (E), 22:9218
propagation through ionosphere, polarization reception of scintillations after, 21:39904
propagation through ionosphere, scintillations in, (E), 22:19860
propagation through ionosphere, theory of, 21:41943
propagation through radiating, cooling, and expanding hydrogen clouds, (T), 23:6827
propagation through traveling ionospheric disturbances, analysis of Faraday rotation of signals in, (E), 24:45117
propagation to 1600 km, x-ray flare effect on lf, (E), 25:38225
propagation to distances below anisotropic ionosphere, elf, 21:43906
propagation under daytime ionosphere, geomagnetic-field effect on 1 to 4 kHz elf and vlf, (T), 25:58873
propagation, lower ionosphere models from, (E/T), 21:46259
properties of vlf, in the ionosphere, (E/T), 22:11324
ray tracing of Z-mode, in tilted-layer ionosphere, (T), 23:12649
ray tracing studies for topside ionosphere, (T), 23:12682
reception at 10 cm of solar, atmospheric effects on, (T), 21:37012
reception of WWV, as a function of solar activity, (E), 23:10547
reflection by ionosphere, coefficients for lf and vlf, 22:47957
reflection by ionosphere, fine structure of resonances in, (E), 22:41484
reflection coefficients from D-region electron-density profiles, (E), 24:5052 (N-69-35646)
reflection coefficients of elf, ionospheric, (T), 23:14681
reflection from aurorae of vhf, (E/T), 22:29377
reflection from auroral ionosphere, (E), 24:10425
reflection from auroral plasma, detection of ion—acoustic waves in, (E), 24:6440
reflection from D and E regions, phase and amplitude, (E), 23:42106
reflection from D layer after high-yield nuclear detonations, partial, (E), 22:36855
reflection from D region during solar eclipse of May 20, 1966, (E), 22:15442
reflection from D region, method for detection of charged-particle precipitation at latitudes below 40°N, (E/T), 25:43223
reflection from E region, 22:36843
reflection from E region at middle latitudes, (E), 23:20776
reflection from F region, calculations of measurable heating parameters of, (T), 25:7266
reflection from F2 region, effects of perturbations on, (E/T), 22:11328
reflection from free radicals in ionosphere, 21:33282
reflection from ionosphere in topside soundings, pulsed, 21:39910
reflection from ionosphere, (E), 23:3328 (AD-670185)
reflection from ionosphere, (T), 23:3360
reflection from ionosphere, 100-kHz pulse, 21:31321
reflection from ionosphere, absolute phase heights in, (T), 24:12745
reflection from ionosphere, computer program for fading in, 23:51490
reflection from ionosphere, directional dependency of slow-tail elf waveforms during, (E), 22:22014
reflection from ionosphere, drift measurements from, (E), 22:26301
reflection from ionosphere, effects of geomagnetic disturbances on, 23:46407
reflection from ionosphere, elf, 24:1331
reflection from ionosphere, errors in phase measurements in, (E), 22:24122
reflection from ionosphere, installation from multiple-frequency, (E), 22:15473
reflection from ionosphere, phase—frequency characteristics of, (E), 23:20775
reflection from ionosphere, polarization in, (T), 22:19862
reflection from ionosphere, polarization in, (T), 23:51530
reflection from ionosphere, solar flare effects on hf, 21:33287
reflection from ionosphere, spectral analyzer for frequency separation in, (E), 23:10541
reflection from ionosphere, sporadic E at middle latitudes observed by vhf, 21:46235
reflection from ionosphere, statistical properties of phase fluctuations, 21:25032
reflection from ionospheric D region, vhf, 22:2959
reflection from ionospheric E region, effects of irregularities produced by coupling of plasma waves on, (E/T), 21:13453
reflection from ionospheric E region, fading characteristics of, 21:9406
reflection from ionospheric F2 layer, number of return signals with, in oblique sounding, 21:39926
reflection from ionospheric F2 layer, rapid-phase fluctuations of, 21:5178
reflection from ionospheric irregularities, (E), 22:15438
reflection from ionospheric irregularities, (E), 22:24125
reflection from ionospheric irregularities, detection with large aerial array, (E), 23:34315
reflection from ionospheric irregularities, determination of drift directions and velocities from, 22:22008
reflection from ionospheric irregularities, vertically incident, (E/T), 25:35978
reflection from ionospheric layers, oscillograms from oblique soundings, (T), 22:38955
reflection from ionospheric layers, periodic fading in, (E), 22:41456
reflection from lower ionosphere, relation between correlation analysis and similar-fade analysis in, (T), 23:42105
reflection from sharply bounded ionosphere at magnetic equator, vlf, (T), 21:31322
reflection from solar corona, (E), 24:28029
reflection from spacecraft, reflector materials for, 24:12416
reflection from sporadic E region of ionosphere, fading in, (E), 22:44006
reflection from sporadic E, duration of continuous, (E), 23:20799
reflection from sporadic-E layer to Earth, electric-field strength of multiple, (E/T), 25:47436
reflection from stratified magneto-ionic model of ionosphere, vlf, 24:32747
reflection from stratified perturbed ionospheric profiles, 21:7090
reflection from Sun, interpretation of, 22:47747
reflection loss in disturbed lower ionosphere, lf and vlf, 22:46035
reflection loss in lower ionosphere, method for calculating lf and vlf, 21:24981 (RM-5249-PR)
reflection of hf, from Antarctic ionosphere, (E), 23:18521
reflection of ionospheric, anomalous variations in phase path records, (E), 22:22009
reflection of ultralong, from the ionosphere, (T), 22:34457
reflection of vlf, from ionospheric irregularities, (E), 22:52671
reflection of vlf, from lower polar ionosphere, (E), 23:25199
reflection on lunar surface, effects of ionospheric scintillations on echoes, (T), 24:26053
reflections from sporadic E, effect of lower ionosphere on appearance of, (E/T), 25:2994
refraction and scattering of vhf, by visible auroral forms, (E), 22:34359 (AD-663663)
refraction by the ionosphere of satellite, (T), 22:13361
refraction by visible auroral forms of vhf, (E), 22:29378
refraction in Martian atmosphere, (E), 22:29133
refraction in troposphere and ionosphere, (T), 22:2920
refraction in Venus atmosphere and ionosphere, (E), 22:8864
refraction indices from collisionless magnetoionic theory, phase and group, 22:36809 (N-68-21904)
relation of 10.7-cm solar, to 5577 A [O I] night airglow intensity, (E), 22:17519
relation of 169-MHz noise storms to type-III radio bursts, 21:26959
resonance in ionosphere of modulated, nonlinear, (T), 23:32243
resonant-mode coupling effects in Earth—ionosphere cavity, (T), 23:3369
scatter geometry in auroral zone, field-aligned ionization, (T), 23:12677
scattering at 42 MHz from aurorae, periodic fading in back-, (E), 23:39388
scattering at 42 MHz from aurorae, polarization characteristics of back-, (E/T), 25:22383
scattering at perpendicular intersection with geomagnetic field, uhf, (E/T), 22:2944
scattering at vhf from meteor trails, (E), 22:15478
scattering behavior of hf, computer simulation of ionospheric structure and ground, 21:35090
scattering by artificial satellite trails, (T), 21:25028
scattering by ionosphere diagnostics from rocket-based, 24:30250
scattering by ionosphere, diagnostics from long-wavelength, (E), 24:6408 (AD-693860)
scattering by ionosphere, drift measurements from, 23:36612
scattering by ionosphere, spectrum analysis in incoherent, (E/T), 24:35306
scattering by meteor trains, (E), 23:39396
scattering by trail of body moving in ionospheric plasma, (T), 21:29118
scattering by wakes of vehicles in ionosphere, 21:29131
scattering from aurora, uhf, 21:46230
scattering from F2 layer during partial solar eclipse, (E), 21:39872
scattering from ionosphere, incoherent, 24:30252
scattering from ionospheric D region, diagnostic use of, 24:30246
scattering from irregularities in ionospheric F region, 23:36610
scattering in auroral zone, (T), 22:47940
scattering in auroral zones, correlation analysis of vhf, (E), 24:45155
scattering in ionosphere, angular, 21:24998
scattering in ionosphere, characteristics from incoherent, (E), 25:33158
scattering in ionosphere, electron density and ion and electron temperature measurements from incoherent, (E/T), 23:51503
scattering in ionosphere, field strength predictions for, 22:36831
scattering in ionosphere, incoherent, (T), 24:17792
scattering in outer corona and the interplanetary medium at 38 Mc, (E), 22:17300
scattering in outer solar corona, (E), 25:32981
scattering in polar ionosphere during geomagnetic storm Oct. 31 to Nov. 2, 1968, echoes from radio-auroral back-, (E), 25:1077
scattering of cosmic, in solar corona, (T), 23:51221
scattering of decameter, observations of Tau A and Vir A occultation by solar corona for studying, (E/T), 25:35773
scattering of incoherent, for measurements of ionospheric parameters, (E), 25:9343
scattering of vhf continuous auroral, correlation with polar electrojet of back-, (E/T), 25:27554
scattering on Antarctic ionosphere, Doppler sounding of, 24:21698
scattering on auroral magnetic disturbances at sunspot minimum, (E), 22:22022
scattering on discharge plasma, diagnostic use of, (E), 25:14248
scattering on field-aligned plasma columns, (T), 22:26412
scattering on ionosphere at oblique angles, diagnostic use of, 24:30244
scattering on ionosphere, diagnostic use of long-wavelength, 24:30245
scattering on ionosphere, electron density measurements from Faraday rotation, 24:17851
scattering on ionosphere, electron-to-ion temperature ratios from Thomson, 24:17766
scattering on ionosphere, ray tracing of, (E), 22:46036
scattering on ionosphere, spread-F on ionograms from, 24:17853
scattering on ionosphere, Thomson, 22:38874 (AD-668436)
scattering on ionosphere, use with airglow emissions for diagnostics, 24:32717 (AD-698348)

- scattering on ionosphere, vlf, 22:41496
- scattering on ionospheric D region at magnetic equator, electron density determination from, 24:32730 (N-70-14217)
- scattering on ionospheric D region, cross-modulation, 24:30247
- scattering on ionospheric disturbances, (T), 23:32245
- scattering on ionospheric wake of satellites, (T), 24:5074
- scattering on isotropic and radially extended inhomogeneities of solar corona, 21:24885
- scattering on large inhomogeneous plasma sphere, cross sections for, (T), 24:17983 (SC-DC-69-1720)
- scattering on nighttime ionospheric D region, measurement of ionization irregularities in, 24:17799
- scattering on solar corona, statistical analysis of, (T), 23:30261
- scattering on solar wind, (T), 23:27299
- scattering on spherical electron cloud, hf, 24:5184 (AD-691428)
- scattering on turbulent plasma, power spectra from, (T), 24:26262
- scintillation amplitudes in ionosphere, (T), 21:41928
- scintillation at 136 MHz, ionospheric, (E), 22:19888
- scintillation at high latitudes of satellite, (E), 23:12653
- scintillation correlated with sporadic E layer, 21:35084
- scintillation during summer at low geomagnetic latitudes, satellite observations of, 21:9414
- scintillation in Jovian decametric, interplanetary, (E), 21:31141
- scintillation of 40-MHz, from Explorer 22, (E), 23:42099
- scintillation of satellite transmissions, (E), 23:18499(R) (AD-670201)
- scintillation of satellite transmitted, (E), 23:36601
- scintillation of satellite, boundary between high- and low-amplitude fluctuations of, (E), 23:12688
- scintillation of satellite, effects of high-latitude ionospheric irregularities on, (E), 25:11601
- scintillation of, propagating through the ionosphere, (E), 23:14682
- scintillation upon traversing ionosphere, index for, (T), 23:3327 (AD-669805)
- scintillation, latitudinal effects on satellite, 21:9413
- scintillations of ionospheric, relation to meteorological pressure system, (E), 22:44003
- scintillations of satellite, due to ionospheric irregularities, (E), 22:41469
- scintillations of satellite-emitted, latitudinal patterns of, (E), 22:48025
- solar x-ray effects on 164-kHz, (E), 21:43702
- sources of Jovian decametric, B and C, (E), 21:9417
- spectra from quasars, 21:1353
- spectra of galactic and extragalactic background, in circumlunar space, (E), 25:16861
- spectra of Jovian decametric, (E), 21:6941
- spectra of Jovian decametric, time-delay effects in, (E), 22:52469
- spectra of Jovian millisecond pulses, (E), 22:36699
- spectra of pulsed, reflected from ionosphere, 21:29111
- spectra of solar bursts, narrow-band, (T), 21:22946 (AD-638192)
- spectra of ulf atmospherics during nighttime, (T), 22:15463
- spectra of vlf, at 0.1 to 20 kHz at Byrd station, 22:47845
- spectra of, emitted during flare of June 9, 1968, (E), 23:34207
- spectral analysis of vlf-banded chorus and narrowband emissions, OGO 5 fast time-resolved, (E), 25:27621
- spectral bandwidth of Pioneer 6, on solar occultation approach, (E), 24:4950
- spectral characteristics of vlf chorus at mid-latitude stations, (E), 24:26076
- spectral emission during proton solar event, Feb. 25, 1969, (E), 25:27553
- spectrum between 13 and 404 MHz of background, (E), 21:43728
- spectrum in interplanetary space, (T), 21:24870
- spectrum of cosmic non-thermal, (T), 22:29308
- spectrum of nonthermal cosmic, at 10 to 200 MHz, 22:38653 (N-68-16483)
- spectrum of slowly varying emission from sunspots at 3.3 mm to 21 cm, (E), 23:10398
- study of vlf, with Ariel 3, (E), 22:17487
- survey at 1400 MHz, 5Cl sources, (E), 25:58531
- temperature of polarized, at 1420 Mc, (T), 21:33064
- time delays of pulsed, from molecular resonances in atmosphere and interstellar space, (T), 24:12544
- topside resonances as oblique echoes, (T), 23:12681
- trains of elf atmospherics at Hawaii and Arizona, differences of pulse, (E/T), 25:40458
- transmission and satellite communications, 21:3702 (N-66-29456)
- transmission in high latitudes during decreasing solar activity, 21:29121
- transmission in ionospheric E region, detonation-wave effect on decameter-wavelength, (E/T), 25:55970
- transmission loss calculated from spectral analyses of atmospherics, vlf, 21:13458
- transmission of, solar eclipse effects on long-path vlf, (E), 22:19882
- transmission over north—south subauroral path, high-frequency limits for, 21:13460
- transmission through ionosphere, vlf, 21:31319
- use for ionospheric measurements, sounding methods, 21:37330
- use for processing agricultural products, review on, 21:45857
- use in determining ionospheric height, satellite, 21:31307 (N-66-39695)
- use in ionospheric diagnostics by differential Doppler method, (E), 21:685 (AD-635380)
- use of vlf, to measure ionospheric movements, 21:18524
- velocity and phase of vlf, diurnal changes of, 21:13434
- whistler-mode noise distribution at high latitudes, diurnal and intensity patterns of elf, vlf, and lf, (E/T), 25:47401

Radio Well Logging
- see Well Logging

RADIOACTIVE CONTAMINATION
- see also Decontamination
- see also Fallout
- see also Radioactive Waste
- see also Stack Disposal
- accidents involving, data recording systems for, 21:36565 (BNWL-SA-963)
- analysis in aqueous solutions, on solid surfaces, and in surface chemical, 23:2820 (JAERI-1165)
- analysis in barrel cactus in relation to ecology and elevation, 22:40688
- analysis on human skin, 23:828
- bibliography of food, 22:6792 (AED-C-02-07)
- bibliography of publications of U.S. government agencies on, 23:43795 (AD-837275)
- bibliography on food, 22:51557 (AED-C-02-08)
- biological balance of iodine-131, following inhalation by monkeys, analysis of, 23:2818 (CEA-R-3417)
- biological significance of, 25:55194 (70-CNA-641)
- book: Agriculture and the Quality of Our Environment, 23:22298
- book: Air Pollution. 2nd Ed. Vol. 1. Air Pollution and Its Effects, 23:38116
- book: Air Pollution. 2nd Ed. Vol. II. Analysis, Monitoring, and Surveying, 23:38118
- book: Air Pollution. 2nd Ed. Vol. III. Sources of Air Pollution and Their Control, 23:38120
- book: Atmospheric Self-Purification from Radioactive Contamination, 23:35337
- book: Basic Radiation Protection. Principles and Organization, 24:25470
- book: Chemism of Inland Waters and Factors of Their Pollution and Purification, 24:25436
- book: Dangerous Properties of Industrial Materials, 24:2675
- book: Diagnosis and Treatment of Deposited Radionuclides, 23:24624
- book: Elimination of Radioactive and Stable Metal Ions. Therapeutic Principles, 23:35709
- book: Health Physics—Process Control Reference Manual. Volume III, 23:38604 (AD-677371)
- book: Problems of Distribution and Experimental Evaluation of Permissible Levels of Cesium-137, Strontium-90, and Ruthenium-106, 23:4902
- book: Protection of Ground Waters from Radioactive Contamination (In Russian), 23:35324
- book: Radioactive Contamination of the Sea, 21:8471(T) (AEC-tr-6641)
- book: Reports on Radiation Protection, 23:4972
- calculation for rupture of unsealed polonium-210 source, 22:49339
- calculation for target areas after nuclear attack, 21:28447 (USNRDL-TRC-76)
- calculations for petroleum following production stimulation by contained nuclear explosions, 25:54826(T) (UCRL-Trans-10543, pp 99-116)
- chemical environmental factors in marine, 22:12455(R) (EUR-3635)
- containment in plastic bags, hazards from, 21:45646
- contamination of personnel, protective action following accidental, evaluation of prompt, 23:24658
- content of fish and prawns used as food in India in relation to mineral and uranium content, 22:51656
- content of man following inhalation of plutonium-239, equations for calculation of, 22:51566 (IDO-12067)
- content of stratosphere during 1967 to 1968, 22:40661(R) (HASL-197)
- content of waters of Athens during 1964 and 1965, 22:21504
- control at Savannah River Plant, operation of air cleaning system for, 23:29138
- control by Illinois environmental protection act of 1970, 24:46621 (NP-18343)
- control during planetary quarantine, methods for, 24:7816(R) (TID-25077)
- control during Savannah River reactor vessel repair, ventilation system for tritium, 24:16269
- control following accidents, planning for, 22:12844 (NP-17209)
- control in industries, 22:490 (CONF-660649)
- control in laboratories and workshops, methods for, 23:45720(T) (AERE-Trans-1105)
- control in radiochemical laboratory, design and operation of ventilating system for, 22:25582
- control of airborne, at Mexican National Nuclear Energy Commission facilities, 23:29137
- control of airborne, at reactor fuel element fabrication plant during normal and high-risk operations, evaluation of biological and physical methods for, 25:8695
- control of airborne, from radioactive waste, 21:41027
- control of airborne, use of paraffin oil for, 24:27578 (EIR-176)
- control of atmospheric and surface water, equipment and methods for, 23:38099
- control of atmospheric, at Ispra, 22:4287
- control of effects of environmental, 22:27916 (BNL-12401)
- control of environmental, in United States, 22:45184 (NP-17555)
- control of internal, methods for, 24:9834
- control of radon-222, in hospitals, 23:18035
- control of reactor environment air, research on, 22:28037(R) (NYO-841-12)
- control of surface water, from nuclear power plants, 23:38096
- control of surface, at Los Alamos, 22:36254 (LA-DC-9005)
- control of tritium at neutron generator, vacuum cartridge system for, 22:48393 (ORO-3346-29)
- control of, design of hot laboratory for, 21:1493
- control of, development of reagents for, 21:43420
- control on human clothing and skin, derivation of decision levels for, 25:55196 (LA-4558)
- control through radiation protection procedures, review of, 21:22419
- control using foams, method for, 21:43014 (AERE-M-1236)
- control using protective paints, 21:18362
- data on, application of lognormal and Rosin—Rammler functions to, 24:2683
- deposition in lungs of man and rats after inhalation of particles, interpretation problems in, 23:31769
- detection and measurement of alpha-contaminated smears, silicon surface-barrier detector system for, 24:19224
- detection and measurement of low-level alpha, zinc sulfide scintillation counter for, 24:19210
- detection and tracking of airborne, scintillation system for aerial, 23:16085 (EGG-1183-2138)
- detection in factory workers by the medical supervisor, 21:22467
- detection in foods in Italy, center for, 22:47536
- detection in surface waters using molluscs as biological indicators, 24:4592
- detection in water using helophyte plants, 23:50457 (CEA-CONF-1382)
- detection of atmospheric, sampling method and equipment for measuring and recording, 21:43117(P)
- detection of internal personnel, toxicologic testing for, 23:41322
- detection of low-level, in seawater using plankton samples, 21:8808(T) (AEC-tr-6641, pp 115-20)
- detection on fuel elements, x-ray fluorescence tester for, 21:3327 (BNWL-SA-264)
- detection on surfaces, design of G—M detector system for, 22:43036(P)
- determination of β, from γ contamination, 23:4941
- determination of MPC for, of mixtures of radionuclides, 21:28497
- determination of surface, regulations for, 22:45509 (SZS-7/68)
- dispersion in air and surfaces, mechanisms for, 25:16117
- dispersion of settled particulates of, theory and method for determination of, 21:18064
- dissolution of particulate lung, mathematical analysis of effects of particle size on, 22:28465
- distribution by food chains, chemical and physical factors affecting, 21:43355
- distribution following nuclear explosions, 22:8529(T) (JPRS-42929, pp 293-330)
- distribution in aquatic ecosystem following nuclear excavation, 24:9827 (CONF-690303-, pp 75-94)
- distribution in environment, effects of expanding industrial applications of atomic energy on, 24:9796 (CONF-690303)
- distribution in human organs, estimation of, using tissue equivalent phantom, 25:11067
- distribution in human respiratory tract following inhalation of contaminated aerosols, autoradiographic method for determining, 25:10953
- distribution in Irish Sea, effects of currents on, 22:23179 (A-AC-82/G/L-1191)
- distribution in organs and whole body of man, contribution of individual radioisotopes to radiation dose from, 23:29476 (UCRL-71443)
- distribution of radioactive dusts in laboratories, 23:4928 (KURRI-TR-4)
- distribution of, following testing of nuclear weapons, 21:14640
- distribution of, from high and low yield nuclear explosions, 21:30565(T) (AD-637416)
- dosimetry of internal, in animals, 21:32659(T) (JPRS-39318)
- dynamics of secondary, on surfaces, 25:52051
- effect of nuclear-powered submarines on, of harbors, 21:10483
- effect of ruthenium-106 on, of cement copper, 21:30560(R) (ORNL-TM-1886)
- effects of aging on, of coatings, 21:12220(R) (IDO-17186)
- effects of environmental, control of, 22:27916 (BNL-12401)
- effects on atmosphere of hot cells, from surfaces, 23:41309
- effects on environment and personnel following research reactor accidents, conduction of, 24:7858
- effects on man, ecological, 23:14139
- effects on man, environmental, 21:39423
- effects on radioisotope metabolism by marine organisms, 23:20146
- effects on rodents living in White Oak Lake area, 21:26647
- estimation following reactor accident, computer program for, 22:19332 (ORNL-4086)
- estimation of ground level, from stack disposal of iodine-131, 21:22050
- evaluation for peaceful uses of nuclear explosives, 24:22846 (UCRL-72332)
- evaluation of areas of reactor, environmental, 22:16112 (CEA-R-3311)
- evaluation of atmospheric and marine, from nuclear explosions used for excavation of sea-level canal in Central America, 24:9545
- evaluation of environmental, 21:41431
- evaluation of environmental, by Hanford reactor effluents, 23:24626
- evaluation of environmental, following Schooner Event, 25:57574 (PNE-524)
- evaluation of internal, by radioisotopes of corrosion products, 22:19343
- evaluation of marine, from nuclear explosions and nuclear power plants, 24:9625
- evaluation of marine, in relation to concentration factors and ecosystems, 23:20227
- evaluation of natural gas, produced in Project Rulison, 24:22834 (PNE-R-20)
- excretion in urine, estimation of rates for, 21:4777
- exposure rate factors for γ-emitting, 21:1750
- fractionation of low-level, in natural water, 21:22409 (K-L-6131)

handling and prevention in industry and research, review of, 23:836
handling procedures for, health physics and medical, 25:42391
handling unprotected surface, safety standards for, 21:12617
hazards from failure of natural uranium accelerator targets, systems for protection against, 25:56582 (CEA-R-4188)
hazards from industry, medicine, nuclear war, and weapons testing, 22:51639
hazards from Project Rulison, evaluation of environmental, 23:43424 (PNE-R-4)
hazards from Project Schooner, effects of atmospheric fallout transport on, (E), 25:10716 (UCRL-72534)
hazards from surface, conference on, 22:23541
hazards from underground nuclear explosion stimulation of gas and petroleum production, evaluation of, 25:54823(T) (UCRL-Trans-10543, pp 56-69)
hazards in environment of man, review of, 21:16351
hazards in environment, review of, 21:16352
hazards in public environment, IAEA codes of practice and standards for, 24:7913
hazards of environmental, from release through stack following accidents at nuclear installations, 23:31724 (KFK-868)
hazards of environmental, to human populations in comparison to chemical pollutants, 24:25431
hazards of internal, to laboratory and industrial personnel, 22:23527
hazards of tritium, near accelerators for neutron production, 22:43310 (PHS-999-RH-29)
hazards of, of environment to man, 21:16362
hazards of, of environment to population, 21:14644
hazards to environment and man from, 24:25254
hazards to ground and surface waters from underground nuclear explosions, hydrologic studies on, 23:45398 (NVO-40(Rev.2), pp 61-7)
hazards to ground waters from underground nuclear explosions, effects of site geology and hydrology on, 23:45397 (NVO-40(Rev.2), pp 51-9)
hazards to man, 21:1728
hazards to man of internal, by corrosion products from reactors, 21:26465
hazards to man of internal, from activated corrosion products from reactors, 21:26465
hazards to man, review of, 22:12779
hazards to nurses, methods for removal of, 24:7812 (ARH-SA-54)
hazards to personnel from handling contaminated tools, use of paraffin oil for reducing, 24:27578 (EIR-176)
hazards to populations without shelters, calculations for, 24:12100 (FMB-69-11)
incidence at Juelich nuclear research center, causes and effects of, 24:27315 (CONF-690540-, pp 152-67)
incidence in cyclotron workers, relation between environmental conditions of working area and internal, 24:2682
incidence in nuclear industries, review of causes and handling of, 23:50572 (PHS-999-RH-33, pp 153-6)
incidence of, resulting from loss or rupture of sealed therapeutic radium sources, review of, 23:9934 (MORP-68-7)
information on fallout, role of news media in public, 22:51608
inhalation by man, review of assessment of α and β, 23:14178
inspection of, after rupture of sealed radium source, 21:20214
legal aspects of air and water, by reactors in France, 23:35763 (CEA-CONF-1281)
legal aspects of surface, in Austria, England, Germany, Poland, USA, and USSR, 24:41902 (FMRB-18)
legislation for prevention of industrial, of atmosphere and waters, 24:46595
levels for environmental plutonium-239 oxides, physical and biological aspects of, 22:51562 (BNWL-SA-1510)
levels for populations due to inhalation or ingestion following nuclear explosions, 23:20194 (CONF-680507-, pp 346-61)
levels of environmental plutonium oxide, following nuclear accidents, 23:20202 (CONF-680507-, pp 460-70)
levels of environmental, effects of nuclear power plant operations on, 22:2230
limits for atmosphere, effects of expanding nuclear technology on acceptable, 24:9797 (CONF-690303-, pp 125-32)
limits for surface, maximum permissible, 25:37825 (RT/PROT-(71)7)
location of source of, use of coolant conductivity monitoring at AFETR for, 22:35588 (AD-663923)
measurement and control of aircraft surface, British regulations for, 21:39401 (NP-16887)
measurement in biological materials, reliability of data from radiochemical analysis used for, 24:7785
measurement in environment, technique for, 21:10609(R) (TID-23367)
measurement in vicinity of Savannah River Plant during July 1 to December 31, 1966, 21:16336(R) (DPST-67-30-1)
measurement of atmospheric, from reactors, review of meteorological developments for, 22:45191 (TID-24190, pp 1-12)
measurement of beta-emitting, methods for, 23:21936 (FRL-3)
measurement of environmental, by effluent from Kiwi-A reactor, 21:16342 (UCLA-12-615)
measurement of Gundremmingen Power Reactor steam turbine, 23:52298
measurement of internal, in man, quantitative estimation of uncertainty regarding, 23:48044(T) (NSJ-tr-154)
measurement of internal, in nuclear power plant personnel in Italy, results of whole-body counting methods for, 25:42435
measurement of internal, methods for, 22:23528
measurement of internal, use of spectrometry and NaI scintillation for, 22:23526
measurement of jet aircraft, by nuclear explosion-produced fallout, 23:6227
measurement of low-level, instruments for, 22:2238
measurement of plutonium-239, in Hanford plant facilities air, 22:25568 (BNWL-481-3, pp 97-101)
measurement of surface, methods for, 22:23549
measurement of, as result of Palomares accident, 23:20200 (CONF-680507-, pp 446-55)
measurement with floor monitor, 21:6302
measurements following Gasbuggy Event, 23:47663 (PNE-G-48)
measurements in air, foodstuff, and water, emergency procedures for, 24:50947 (SZS-9/70)
measurements of low-level, in lead, equipment and methods for industrial control, 22:36034 (NYO-3540-1)
mechanisms in urochordates, 23:20108
mechanisms of, 24:2650 (PEL-187)
meteorologic effects on near-ground atmospheric, 23:17588
meteorological factors in atmospheric, 22:40228 (AECL-2787, pp 161-75)
methods for counteracting accidental ground water, 23:13855 (EUR-4095)
methods for handling, after shipping accident, analysis of, 23:2836
model for river, development of computer, 25:18940
monitoring after Redox multipurpose dissolver incident, 21:32645 (HW-67164)
monitoring at Goodyear Atomic Corporation, 22:49323(R) (GAT-R-430)
monitoring at Goodyear Atomic Corporation during 1968, 23:45772 (GAT-R-517)
monitoring at nuclear facilities, use of whole-body counter for, 21:26464
monitoring at nuclear installations, 21:41418
monitoring by health and safety laboratory, data on fallout, 23:7995(R) (HASL-200(App.))
monitoring following rupture of sealed radium sources, 24:7834
monitoring for exterior and interior of high-altitude aircraft, 24:31969
monitoring for radon-daughter product, in air of residences, 21:28495
monitoring hands and feet for, design of equipment for, 21:320
monitoring in agricultural products, atmosphere, and soil of Korea during 1961 to 1966, 22:36287
monitoring in air, soil, vegetables, and water, in environment of Juelich nuclear center, 24:36729 (JUL-603-ST, pp 7-84)
monitoring in Belgium during 1966, 23:28561(R) (NP-17819)
monitoring in biosphere, design laboratory facilities and procedures for, 21:32649 (NP-16751)
monitoring in biosphere, design of laboratories for, 22:2493(T) (UCRL-Trans-1356)
monitoring in diet and environment of man, methods for, 21:43418
monitoring in drinking and waste water, radiometric device for, 22:10615 (IFA-IS-45)
monitoring in environment and food chains during 1967, Euratom/CEA studies of, 23:48030 (EUR-4272)
monitoring in environs of Aiken, S. C. and Oak Ridge, Tenn. during 1969, 25:57985
monitoring in environs of Mound Laboratory, 21:10865 (MLM-1335)
monitoring in environs of Mound Laboratory, 1966, 21:10866(R) (MLM-1356)
monitoring in environs of nuclear research center Juelich, 24:36730 (JUL-603-ST, pp 85-92)
monitoring in foods and beverages, guide for, 23:2832
monitoring in Hanford area ground waters, 24:7609 (BNWL-1233)
monitoring in high-altitude aircraft, 21:36590
monitoring in Italy following nuclear explosions in China, 21:36595
monitoring in laboratories using open sources, use of measurements of radioactivity on paper wrapping of photographic film in dosimeters for, 22:21522
monitoring in laboratories, equipment and methods for, 25:24127 (CEA-N-1408(1))
monitoring in laboratories, use of liquid scintillation methods for, 25:55217
monitoring in laminar flow clean rooms, design of equipment for, 23:40940
monitoring in off-site environment of nuclear installations, criteria for development of programs for, 24:7849
monitoring in production areas of reactor buildings, use of swipe test for surface, 23:29506(R) (THAI.-AEC-21)
monitoring in project Gasbuggy, program for, 21:28123 (UCID-15136)
monitoring in vicinity of Hanford in 1966, 21:36563 (BNWL-439)
monitoring of atmosphere and soil, methods for, 23:43757 (JUL-566-ST)
monitoring of environmental, development of stationary monitor for γ, 24:50802 (SZS-12/70)
monitoring of environmental, in Germany and Poland from 1962 to 1968, evaluation of, 24:46592 (SZS-10/70)
monitoring of fallout, in atmosphere, food, milk, and water, 23:12084
monitoring of floors for, detector system for, 23:21942 (SZS-16/68)
monitoring of laundered protective clothing, alpha—beta—gamma scintillation detectors for, 22:6555 (BNWL-540)
monitoring of personnel beta—gamma, Geiger—Mueller system for, 23:726
monitoring of personnel, Geiger—Mueller detectors for beta particles and gamma radiation for, 22:25659(P)
monitoring of personnel, ICRP committee IV recommendations on, 24:31998
monitoring of plutonium, of air, performance of installed and personal samplers for, 23:14172
monitoring of plutonium, use of thallium-activated sodium iodide scintillation detectors for, 21:26156 (UCRL-50007-66-2, pp 1-6)
monitoring of small area surface, silicon p—n junction detector for, 24:19203 (RD/B/N-1576)
monitoring of surface, calibration of instruments for, 23:13986 (KURRI-TR-6)
monitoring of surface, design of semiconductor detector for alpha particles during, 22:8342
monitoring of surface, instruments and methods for, 24:50553 (STI/DOC-10/120)
monitoring of surface, review of problems in pre-operational off-site survey programs for, 23:48064
monitoring of surface, sampling device for, 25:4516(P)
monitoring of surfaces for, apparatus for taking specimens for, 23:38377(P)
monitoring of workshop and laboratories, equipment and methods for, 23:38241(T) (AERE-Trans-1104)
monitoring of, from unsealed sources, 22:12862
monitoring of, in diet of man, 21:4797(T) (AEC-tr-6797)
monitoring of, outline of methods of, 22:21387 (SC-M-68-94)
monitoring on surfaces, activity measurement of smears for, 24:9826 (AERE-M-2174)
monitoring on surfaces, calibration jig for detectors for, 24:7626 (AERE-M-2201)
monitoring on surfaces, detector system for, 22:45272 (AAEC/M-84)
monitoring plutonium surface, design and performance of portable scintillation detector for, 21:39192(R) (UCRL-50007-67-1)
monitoring procedures for, for launch of SNAP-19, 23:20218 (NP-17805)
origins of, system for distinguishing atmospheric, geologic, and nuclear installation, 24:7781
paths of nutritional, use of radioactivity control measurements for determination of, 21:22366 (CEA-R-3076)
permissible limits for human skin, in Japan, 22:36277
permissible limits for, of surfaces, determination of, 22:23544
personnel protection against, regulations for, 22:51593
plutonium, in man, use of feces and urine analysis for determining, 23:9945
possibility of environmental, by excretions from patients during interstitial iodine-131 therapy, 25:58079
prediction of environmental, from underground nuclear explosions, 24:19093(T) (AEC-tr-7122)
prediction of, of walls of concrete ventilation ducts, 21:16097
prevention of, methods for, 21:41393(R) (NP-16856)
problems in research laboratory, 21:1786
problems in seawater, conference on, 23:20226
problems in, review of civilian aspects of, 23:24650
problems in, review of defense aspects of, 23:24651
processes of atmospheric, 23:17587
programs for management of early phase of, in man, 23:24659
programs for management of personnel following external and internal, 25:32393 (EUR-4569)
protection against environmental, evaluation of protective clothing for, 22:40677
protection against hazards from, of food chains, 23:14176
protection against, methodology derived for civil defense sensitivity analysis for, 21:36555 (AD-650927)
protection against, use of computers in sensitivity analysis for, 21:36556 (AD-650928)
protection against, using insulated suits with device for regenerating air mixture, 21:39428
protection methods for, at Goodyear Atomic Corporation, 21:24403(R) (GAT-R-397)
protection of civilians against, computer program for sensitivity analyses of civil defense systems for, 21:36557 (AD-650929)
protection of cleanup personnel from, instruction for, 22:28493
protection of ground water from, methods for, 23:35324
protection of Japanese aircraft against, 23:41491
protection of man against, in environment, evaluation of specific activity concept for, 22:10750
protection of Mol, Belgium area ground waters from, by nuclear accidents, tracer studies for, 24:31476
protection of morticians against, in corpses of man, standards for, 22:4625
protection of personnel in postattack environment against, use of drugs and partial-body lead shielding for, 21:34658 (USNRDL-TR-67-39)
radiometry in man, 22:10779
radiostrontium, of feathers and skin of chickens, sorption of, 23:2775
record-keeping system for, of radiation personnel, AEC proposed, 23:24666
redispersion of settled particulates of, theory and method for determination of, 21:18064
reduction of underground nuclear explosion-produced, distributed phased explosion method for, 24:41547 (CONF-700101-(Vol.2), pp 1474-84)
regulations for maximum permissible surface, in industrial establishments in Great Britain, 25:42468
release by accidents, prevention techniques and medical remedies for, 24:7877
release by satellite impact, model for predicting human injuries from, 22:43429
release to atmosphere, dose factors from long-period, 22:40224 (AECL-2787, pp 59-76)
release to environment by reactor accidents, methods for reducing, 24:7826
release to environment, role of radiation protection standards in evaluating, 24:7828
removal from animals, use of chelates and ion exchangers for, 22:51669

removal from battle gear, methods for, 22:8530(T) (JPRS-42929, pp 331-58)
removal from box line facility, 21:43431
removal from building materials, method for, 24:36749 (JUL-603-ST, pp 223-6)
removal from cattle, methods for, 24:48599
removal from clothing, effectiveness of detergent solutions for, 22:8553
removal from food during nuclear war, methods for, 22:45516
removal from fruits and vegetables, effects of, on nutritive value, 24:48531
removal from fruits and vegetables, effects of, on nutritive value, 24:25474
removal from gases, method and apparatus for, 23:15960(P)
removal from hot laboratories, 21:28144
removal from in-pile loops of high-temperature gas-cooled reactor, 21:43428
removal from injured radiating patients, design of experimental radiosurgery for, 23:24660
removal from large equipment, design of facilities for, α, 21:43432
removal from linens and materials in nuclear plants by washing, 25:8664(P)
removal from natural and synthetic textiles, evaluation of methods for, 21:36572 (EUR-3276.e)
removal from persons following injuries or radioisotope therapy, design and use of hospital units for, 22:28477
removal from potatoes, 23:31727
removal from skin and wounds of personnel, 22:31093
removal from skin of personnel in nuclear industry, methods for, 22:12850
removal from skin using phenol resin or polyurethane resin, 24:19313(P)
removal from skin, development of decontaminating agent for, 21:36622(P)
removal from skin, methods for, 21:36575(R) (JAERI-5015)
removal from steel surfaces, development of electrolytic polishing method for, 21:36620(P)
removal from steel, chemical and electrolytical method for, 21:45651
removal from surfaces by alkaline oxidizing and acid reducing solutions, 23:19851
removal from surfaces of articles, methods for, 23:26315(P)
removal from surfaces, development of decontaminating agent for, 21:36621(P)
removal from surfaces, development of strippable film for, 21:36619(P)
removal from surfaces, evaluation of methods for, 24:44471
removal from surfaces, methods for, 22:23558
removal from surfaces, standard test for comparing, 22:30666
removal from vapors using plate column, 21:25952
removal in postattack environment, methods for, 22:33809 (BNWL-SA-1509)
removal of actinide, in rats by deferrioxamine and DTPA, 21:14669
removal of, efficiency of Desorb 10 and 20 for, 22:38295
removal of, from gaseous effluents of ORNL reactors, 21:8799 (ORNL-TM-1569)
removal of, use of paints for, 21:41193
report on fission product, 1968-1969, 24:2543(R) (NYO-4039-1)
research on marine, CNEN-EURATOM, 25:37779(R) (EUR-4508)
review of surface, 22:15003(T) (AD-662586)
safety hazards in flooring and walkway surfaces from, 22:2278 (UCRL-70720)
scavenging of atmospheric, by rainwater, tracer studies of, 22:40249 (AECL-2787, pp 553-66)
separation from milk, review of methods for, 21:20225
separation from natural gas after Gasbuggy shot, 21:28123 (UCID-15136)
separation from solutions by ion exchange using bentonite, 21:34325
separation from steam by in-pile condensation processes, 21:34354 (AERE-M-1214)
separation of, from water, equipment for, 21:6542(P)
smear sampling of, device incorporating data processing cards for, 21:3413(P)
sources in uranium mines, 21:26459
sources of artificial and natural, of earth's atmosphere, 23:38117
sources of environmental, comparison of natural and nuclear power plant, 25:42383
sources of, comparison of nuclear power plant operation and other industrial operations as, 25:39857 (CONF-710511-1)
sources of, review of man-made and natural, 21:45648
standards for content of, in crops, 22:38225
standards for environmental, from nuclear power plants, adequacy of USAEC, 24:326
standards for personnel, 22:23555
standards for surface, 22:23548
standards for surface, 22:23545
standards for surface, recommendations for, 23:26819
standards for working surfaces at A.W.R.E, 22:23554
statistical analysis of internal, among AEC contractors during 1957 to 1966, 23:24645
surface roughness effects on fallout, 22:40221 (AD-668327)
survey in Minnesota medical facilities using radium, 21:30811
survey of pre-operational environmental, at reactor site in India, 23:14182
survey of soil samples from Eniwetok Atoll during 1952, 22:495 (UCLA-12-654)
transfer from environment to food, 22:6866 (EUR-3553.f)
transfer from surfaces to air, mechanisms for, 25:32413
transport into seawater, effect of depth on, 22:2257
treatment in personnel, methods for, 23:4988
vent gas treatment plant for airborne, design of, 21:30558 (CONF-660904-Vol.1 and 2, pp 496-508)

Radioactive Elements
see Radioisotopes
Radioactive Fuel Processing Plants
see Radiochemical Processing Plants
Radioactive Gas Separation Processes
see Separation Processes
Radioactive Isotopes
see Radioisotopes
RADIOACTIVE MATERIALS
see also Radioisotopes

accidents at sea involving, liability under Paris Convention for, 24:22965
activity counting of, factor for determining true mid-point of count rate for, 22:37
activity from, estimation for shipping purposes, 21:6168 (TRG-Report-1287)
analysis by chromatography and counting, 24:41225
analysis by electron microprobe methods, equipment for, 25:26156
analysis by spectrochemical methods, effects of electrode properties on sensitivity of, 21:30384
analysis for bromine, x-ray spectrometry in activation, 21:25786
analysis for impurities using pulsed electric arc, spectrographic, 22:42624
analysis for mercury by flameless atomic absorption spectrophotometry, 22:48814 (DP-1164)
analysis for mixtures of molybdenum-99 and rhenium-186, radiometric, 23:26192
analysis for plutonium and uranium, qualification of US commercial and foreign laboratories for, 24:16820 (TID-25357)
analysis for trace impurities, spectrographic, 22:4055
analysis of α, β, and γ, design of versatile lead-shielded hot cells for, 24:412 (AERE-R-6115)
analysis of fragments of, from high-explosive destruct test of NERVA, 21:10514 (USNRDL-TR-1090)
analysis of high-activity, double-crystal diffractometer for, 22:4512
analysis of highly, by electron microprobe method, 25:51360 (CEA-CONF-1783)
analysis of, atomic absorption, flame emission spectroscopic, and spectrophotometric, 24:26991
analysis of, by isotopic dilution, equations for, 21:8208
analysis of, design of electrophoretic apparatus for, 21:40805(P)
analysis of, design of lazy-Susan device for sample mounting for, 21:2985
analysis of, electrochemical methods for remote, 24:26992
analysis of, glove box methods for, 24:26918
analysis of, problems in, 25:10491 (ORNL-4636, pp 20-33)
analysis of, remote spectroscopic methods for, 24:26990
analysis of, sampling, dissolution, evaporation, and combustion in, 24:26915
analysis of, shielded facility for electron probe micro-, 22:27532 (GEAP-5344)
analysis of, thermogravimetric, 24:26986
analysis of, titration equipment for remote, 24:26988
analysis using microprobe, method for, 24:17389 (CONF-690910-, pp 516-32)
analysis using thin-layer chromatography, 21:38904
assay of, design of high-wattage flow calorimeter for, 23:9511(R) (MLM-1520)
behavior in reactor hot cells of, design and testing of optical system for observation of, 22:33582 (INR-870/XIV/PS)
bibliography on handling and shipping of, 25:10798 (ORNL-NSIC-84)
book: An Introduction to Radioactivity for Engineers, 23:4797
book: Association with Radioactive Materials, 21:28504
book: Chemical Analysis of Radioactive Materials, 21:25810
book: Chemical Analysis of Radioactive Materials, 22:4060
book: Problems of Protection in Industrial Utilization of Radioelements, 25:18996
book: Radioactive Products, 1969/70, 23:13960
book: Radionuclides, (E), 23:5809
book: Safe Transport of Radioactive Materials, 22:28058
book: Theoretical Bases of Radiometric Enrichment of Radioactive Ores, in Russian, 23:33248
book: Toxicology of Radioactive Substances, Vol. 5. Zn-65, 25:21871
chemistry of, methods for studying, 21:38995
coating for high-activity, evaluation of bituminous, 23:32072 (CEA-R-3730)
coating of concentrates of, design of bitumen plant for, 23:31448 (CEA-R-3734)
coating of concentrates of, with bitumen using thin-film evaporator, 23:50090 (CEA-R-3742)
collection of liquid, equipment for remote-controlled, 24:4417(P)
compaction of, design of hot press for, 21:41062 (ORNL-TM-1900)
concentration of solutions of, by natural evaporation, equipment for, 21:10442(P)
conference on packaging and shipping of, Gatlinburg, Tenn., Oct. 14 to 18, 1968, 23:546 (CONF-681001)
conference on packaging and shipping of, Richland, Wash., Aug. 16 to 20, 1971, 25:48836 (CONF-710801-(Vol.2))
conference on packaging and shipping of, Richland, Wash., Aug. 16 to 20, 1971, 25:48803 (CONF-710801-(Vol.1))
conference on shipping of, Monaco, Oct. 7 to 11, 1968, 24:22934
conference on testing of containers for shipping of, Vienna, Feb. 8 to 12, 1971, 25:51770 (STI/PUB-285)
conference on transportation of, Charlottesville, Va., Oct. 26 to 28, 1969, 25:48883 (PB-189506)
container for, design of, 23:6280(P)
container for, design of shielded fireproof, 23:50096(P)
containers for shipping gaseous and liquid, design and testing of Type A, 23:4794 (AERE-R-5701)
containers for, comparison of methods for testing leak tightness of, 25:15871
containers for, design of gas-tight, 23:13971(P)
containment of underground nuclear explosion-produced, (E), 23:45430 (NVO-40(Rev.2), pp 13-50)
containment of, method for, 22:43020(P)
containment of, methods used under various conditions for, 21:25687
contamination of aquiferous layer of site by, 21:25981
contamination of personnel, 23:22308
content and diffusion in clay soils, method for calculation of, 25:29206
content in air, measurements in East Tennessee during 1966, 21:45249 (ORNL-4146, pp 2-35)
content in atmosphere of Ghent, Belgium, effects of meteorological variables and seasons on, 24:7529
content in atmosphere, literature survey of, 24:27248
content in Bay of Banyuls sediments, 22:35955
content in ground-level atmosphere from continuous release of gaseous effluents, calculation of isoconcentration curves for, 24:27243
content in Hungarian milk, rainfall, surface water, and vegetables, 22:48946
content in Japanese atmosphere, measurements of, 22:33569
content in near-ground air layer, effects of warm sectors of cyclones on, 23:17614
content in nuclear research facility environment, effects of meteorological conditions on, 25:32084 (KFK-1336)
content in rainwater in Kumamoto District, Japan, effect of Chinese nuclear explosions on, 22:14589
content in surface atmosphere layer, variations of, (T), 22:25540
content of aerosols, environment, fallout, and water near Beloyarsk power reactor during 1963 to 1966, 22:17027
content of air, milk, oysters, rain, seawater, and silt in Galveston during 1965, effects of nuclear powered ship on, 22:28459
content of airborne particulates and precipitation in United States during 1966, β, 22:28522
content of airborne particulates and precipitation in North and South America during June 1967, 22:28506
content of airborne particulates and surface waters in North and South America during 1966, 22:28495
content of airborne particulates, precipitation, and surface waters in North and South America during 1966, 22:28502
content of atmosphere and environs of ORNL from gaseous and liquid wastes, FRC and NCRP standards for, 22:43307(R) (ORNL-4286)
content of atmosphere and precipitation in North and South America during 1967, 22:28514
content of atmosphere and precipitation in North and South America during April 1967, 22:28510
content of atmosphere and precipitation in North and South America during 1966, 22:28508
content of atmosphere and precipitation in North and South America during 1966, β, 22:23518
content of atmosphere and precipitation in North and South America during May 1967, 22:23515
content of atmosphere and precipitation in North and South America during 1966, 22:28519
content of atmosphere in Galveston during 1966, 22:28510
content of atmosphere in North America during February 1967, 22:40697
content of atmosphere in North America during January 1967, 22:40690
content of atmosphere in North and South America during 1966, γ, 22:23520
content of atmosphere in United States, federal surveillance network for measurement of gross β, 22:51570 (NP-17401)
content of atmosphere, analytic procedures for determining, 22:51875 (TID-4060(1st Ed.))
content of atmosphere, precipitation, and surface waters in North and South America during 1966, gross, 22:23522
content of atmosphere, precipitation, and surface waters in United States during 1966, 22:28526
content of atmosphere, precipitation, and surface waters in North and South America during 1966, 22:25850
content of atmosphere, ratio of, to activity of deposited dusts, 22:19341
content of diet in United Kingdom and United States during 1965 to 1967, 22:40693
content of environment, 21:41431
content of environment at AEC installations during 1967, 22:28506
content of environment at AEC installations during 1967, 22:28519
content of environment at AEC installations during July to Dec. 1966, 22:28510
content of environment at AEC installations during 1965 to 1966, 22:28526
content of environment at AEC installations during 1967, 22:28517
content of environment at Argonne National Laboratory, Atomics International, National Reactor Testing Station, and Oak Ridge during 1966, 22:23522
content of environment at Atomic Energy Commission installations during July to Dec. 1966, 22:40693
content of environment at Bettis Atomic Power Laboratory, Feed Materials Production Center, Knolls Atomic Power Laboratory, and S1C Prototype Reactor Facility during 1965, 22:28502
content of environment at Brookhaven and Rocky Flats installations of AEC during 1965, 22:36257
content of environment at Lawrence and Mound Radiation Laboratories during 1965, 22:28495
content of environment at Lawrence and Mound Radiation Laboratories during 1965, 22:28458

content of environment at Oak Ridge National Laboratory during 1968 in relation to AEC, FRC, and ICRP recommended maximum levels, 23:41336(R) (ORNL-4423)
content of environment at Paducah, Portsmouth, and Shippingport installations of AEC, during 1965, β, 22:28522
content of environment in Brookhaven and Rocky Flats during 1966, 22:23518
content of environment in Oak Ridge, Paducah, and Portsmouth during 1966, 22:23520
content of environment in Pinellas Peninsula and Savannah River Plants of AEC during 1965, 22:25850
content of environment of AEC installations during 1966, 22:28508
content of environment of AEC installations during July to Dec. 1966, 22:23515
content of environment of AEC installations during 1967, 22:28514
content of food and water in Japan, maximum permissible, 25:42482
content of food, man, and soil, 22:51875 (TID-4060(1st Ed.))
content of forest soils in New Jersey during 1964 to 1966, 22:23515
content of Fucus in Connecticut during 1961 to 1964, β, 22:40694
content of Fucus in Connecticut during 1961 to 1964, β, 22:28510
content of honey in Roumania, measurement of artificially and naturally occurring β and γ, 22:15011
content of human bone, soil, and water in Nagasaki, residual, 22:10770
content of human diet in U. S. during 1966, 22:28502
content of Japanese airborne dusts and rainwater, Oct. to Dec. 1967, 23:40885
content of milk in North America during 1966 to 1967, 22:40697
content of milk in North America during 1966 to 1967, 22:40690
content of milk in North America during 1967, 22:40693
content of municipal water supplies in Minnesota during January through June 1968, comparison of, for raw and treated water, gross α and β, 24:2608
content of organisms, mechanisms for removal of, 22:51875 (TID-4060(1st Ed.))
content of precipitation and surface air in Canada during October 1968, gross β, 24:2609
content of precipitation in North America during 1966, 22:28458
content of precipitation in North and South America during 1966, β, 22:36257
content of surface air in Central and South America during October 1968, gross β, 24:2609
content of surface air in USA during October 1968, gross β, 24:2609
content of surface atmosphere, effects of temperature inversions on, 23:13881
content of surface waters and water supplies in Florida during 1967, monthly averages for gross α and β, 24:2608
content of surface waters in Minnesota during 1966, 22:28506
content of surface waters in U. S. during 1966, 22:28517
content of surface waters in U. S. during 1966, 22:28519
content of surface waters in U. S. during 1966, total, 22:23520
content of surface waters in United States during November 1966, 22:40690
content of surface waters in United States during March 1967, 22:23515
content of surface waters in United States during 1965, 22:28458
content of surface waters in United States during 1966, gross, 22:23518
content of surface waters in United States during 1965, β, 22:36257
content of surface waters in United States during 1967, alpha and beta, 22:28506
content of surface waters in United States during February 1967, 22:40693
content of surface waters in United States during 1966, 22:28522
content of surface waters in United States during December 1966, 22:40697
content of surface waters in US during 1966, 22:28508
content of surface waters in USA during August 1968, gross α and β, 24:2608
content of surface waters in Washington during 1964 to 1965, 22:28458
content of surface waters in Washington during 1965 to 1966, 22:28510
content of surface waters in Washington during July 1965 to June 1966, 22:40693
content of United States Coast Guard water supplies during 1967, monthly averages for gross α and β, 24:2608
content of water supplies in California during January to June, 1966, 22:40697
content of water supplies in Minnesota during 1965, β, 22:28522
content of water supplies in Minnesota during 1966, β, 22:23520
control in East Germany, recommended regulations for, 25:13193 (SZS-16/70)
control of, Arkansas licensing and inspection regulations for, 24:2430
control of, cost of loss of, 21:14415
decontamination of gaseous, design of adsorption separation process for, 24:27319(P)
deformation of, neutron radiographic equipment and method for measurement of, 24:46441(R) (AERE-R-5792)
density of, remote methods for measuring, 24:27098
deposition of nuclear power plant stack-disposed, effects of meteorological factors on, 23:2421 (AHSB(S)R-157)
deposition of, effects of configuration on, 21:14103(R) (ORO-3414-2)
deposition of, operation of device for electro-, 21:28591(R) (NYO-2740-4)
deposition on soil surfaces following earth impaction of space power system radioactive capsules, computer programs for evaluating hazards to man from, 25:26429 (SC-R-710021)
deposition on surfaces of particles containing, 21:8798 (ORNL-4007, pp 243-67)
determination in suspensions or solutions, scintillation method and apparatus for, 23:28738(P)
determination of particles of, in air, sampling equipment for, 24:43965(P)
determination of, electron-microscopic methods for, 22:14432 (ORNL-4196, pp 63-6)
determination of, high-level counting system for, 21:30345(R) (IN-1063)
diffusion from encapsulated wastes, method for analysis of, 25:15868 (ORNL-TM-3232)
diffusion in atmosphere from Milrow Event, estimates of possible, 24:16700 (ARLV-351-3)
diffusion in atmosphere from power reactors, radiation dose calculations for, 22:45196 (TID-24190, pp 301-77)
diffusion in atmosphere from power reactors, safety hazards from, 22:45197 (TID-24190, pp 379-99)
diffusion in atmosphere from Project Cabriolet, 23:49987
diffusion in atmosphere, effects of meteorological conditions on, 23:29008(T) (ORNL-tr-2109)
diffusion in atmosphere, effects of temperature gradient and wind velocity on, 24:36411 (JUL-603-ST, pp 243-53)
diffusion in atmosphere, environmental contamination from, 23:13878
diffusion in Karlsruhe Nuclear Research Center atmosphere, 23:29007 (KFK-930)
diffusion in lower atmosphere, methods for measurement of, 24:16710
diffusion in NRTS atmosphere, 1962 to 1968, 24:22927 (IDO-12040(Suppl.4))
diffusion in seawater from point source, equation for determining volume of contaminated region from, 24:5767
diffusion in seawater, development of model for prediction of, 22:37893 (SC-CR-68-3532)
diffusion in seawater, from continuous or point sources, 24:14097 (NYO-3109-40)
diffusion in soils, 22:2178 (UJV-1899)
diffusion into containment vessels, 21:7969
diffusion of airborne, ARADS and RADS computer programs for prediction of, 23:13882
dilution of gaseous, in atmosphere, effects of buoyancy on, 22:42867 (GA-8369)
disintegration rate of finite samples of, coincidence techniques for determination of absolute, 23:7584
dispersion and movement of, in marine environments, 22:18995 (NYO-3109-26)
dispersion and transport rates in atmosphere of, use of computers to determine, 21:30546(R) (SC-CR-67-2534)
dispersion in air, liquids, and soils, 21:25689
dispersion in Atlantic Ocean of, from bottom-located source on continental slope of U.S., effects of ocean currents on, 22:25616 (NYO-3109-32)
dispersion in radioactive clouds, formulas for, 22:16707 (KFK-646)
dispersion in seawater, from SNAP devices, method for prediction of, 22:18995 (NYO-3109-26)
dispersion of airborne, computer model for predicting, 21:45254
dispersion of gaseous, model for porous underground materials, 22:49048 (SERL-67-10)
disposal of, distribution between ground water and soil by ion-exchange reactions following, 22:16698 (SC-RR-67-861)
dissolution of, methods of hot-cell, 21:12289 (TID-7015(Suppl.9))
distribution in aerosols, random nature of, 24:16706
distribution in black sands of India, relations with chemical composition, grain size, and mineralogical composition, 24:22778
distribution in cavities of, from underground nuclear explosions, 21:30559 (HNS-1229-47(Suppl.1))
distribution in coal from Dorenaz, optical studies on, 22:10388
distribution in fallout-contaminated soils, three-dimensional model for estimating, 23:17551(T) (AEC-tr-7030, pp 106-18)
distribution in Hungarian atmosphere, 23:38109
distribution in one-compartment biological systems, mathematical model for, 22:10705
distribution in rocks in Central Kazakhstan, central Asia, 24:22784
distribution in spaces, gamma camera design for photographing, 21:301(P)
distribution in Swiss coal, 22:10387
distribution in test body, use of stereo positron camera to determine, 21:32301(P)
distribution of, design and use of device for safety in, 21:12881
distribution on droplets in clouds, 23:17604
dose to man from clouds of, calculation of, 21:20204
dosimetry of, correlation with ICRP standards, 24:29751
drying of reactor-irradiated, design of forced-air equipment for, 22:48990(P)
effects on mining personnel, effects of, on Howell Jolly bodies in bone marrow cells, 24:36712
electric charges on surfaces of crystalline, 23:21769
encapsulation in welded containers, equipment and procedure for, 22:43540 (LA-3937)
enclosure with thallium-204, method for, 21:1547(P)
evaporation of solutions of, equipment for, 21:6015(P)
facilities for handling airborne, design, construction, and testing of high-efficiency filters for, 24:11722 (ORNL-NSIC-65)
filters for, development of high-efficiency, 22:21230 (AWRE-O-81/65)
fixation of, in glass, rising-level technique for, 21:131 (ORNL-TM-1584)
flasks for transporting, design of equipment for loading and unloading, 21:43104(P)
flow of gaseous, design of valve for, 22:25596(P)
flow of ionic, in ground waters following accidental earth burial of SNAP device, model for, 24:22771 (SC-CR-68-3637)
gamma assay of, effect of radon loss on, 21:40998(T) (AEC-tr-6900)
glass ampules for, equipment and method for semiautomatic flameless sealing of, 25:42046
handling and monitoring of, in hot cells, equipment for remote, 24:31655
handling and shipping in UK, safety of, 24:22939
handling and shipping of, effects of international regulations on economics of, 22:23249
handling and shipping of, recommended drop testing of packages for, 25:51807
handling and shipping of, Republic of South Africa regulations for safe, 25:360
handling and storage of, contained in x-ray diffraction specimens, design and use of equipment for safe, 25:26449 (MLM-1790)
handling and storage of, criticality safety in, 21:17556 (SC-DC-67-1305)
handling and storage of, design of equipment for, 25:57719(P)
handling and storage of, use of plastics in, 22:26099 (CONF-660706-, pp 111-23)
handling and testing of, description of NRTS equipment for, 22:25571 (IN-1176)
handling and transferring of, in scintillation zone, design of equipment for, 23:38222(P)
handling and transport of, description of shielded vehicle for, 24:31549
handling and transport of, legal aspects of, 21:30342
handling and transport of, ORNL safety procedures for, 21:41397 (ORNL-TM-1981)
handling and transportation in Russia, 23:542(T) (AEC-tr-6881)
handling and transportation of, bibliography on, 21:40568 (ORNL-NSIC-36)
handling and transporting of, bibliography on, 21:30664 (ORNL-NSIC-33)
handling and transporting, device for, 21:22086(P)
handling at Fontenay-aux-Roses radiometallurgical laboratories, 24:20934 (CEA-CONF-1422)
handling at Juelich nuclear research center, contamination incidents during, 24:27315 (CONF-690540-, pp 152-67)
handling at Juelich Nuclear Research Center, methods for, 24:36537 (JUL-603-ST, pp 139-42)
handling at research laboratories, facilities for safe, 21:16341 (SCL-DC-67-5)
handling at Seibersdorf Reactor Center, Austria, design and operation of hot cells for, 24:31561
handling by airport personnel during shipment, hazards from, 25:24192
handling by airport personnel, estimation of dose from, 25:26770
handling by personnel and public in general, survey of role of federal agencies in establishing or enforcing safety standards to control hazards from, 25:16202 (BRH/DEP-70-28)
handling by railway station personnel, protection against hazards from, 24:41888
handling during calibration of monitoring film, automatic system for, 21:20221
handling during well logging, problems of, 22:28510
handling equipment for, operation of Project Salt Vault, 25:32192 (ORNL-4555, pp 124-60)
handling equipment for, safety evaluation of Project Salt Vault, 25:32191 (ORNL-4555, pp 99-123)
handling facilities for, fire protection practices for, 25:52099
handling facilities for, radiation protection measures for, 25:13461
handling for electron microprobe analysis, design of pneumatic system for, 24:475
handling high-level, CEA policies for design, management, and security of French facilities for, 24:20967 (CEA-CONF-1429)
handling in glove boxes, equipment and method for, 23:31508 (CEA-CONF-1255)
handling in hospitals, 21:1761
handling in hospitals, 21:30823
handling in hot cells at Petten, The Netherlands, safety aspects of, 24:31555
handling in hot cells, design of device for safe, 23:9687(P)
handling in hot cells, design of hydraulically activated manipulator arm for, 25:51775(P)
handling in Hungary, regulations for, 21:3406
handling in laboratories, methods for, 25:46858
handling in mass spectrograph, 23:24067
handling in shielded glove boxes, fabrication and operation of wrist-action manipulators for, 23:21859 (ORNL-TM-2512)
handling in universities, regulations for, 22:499
handling incidents in East Germany, review of, 24:31031 (SZS-18/69, pp 25-34)
handling of α-active, design of steel glove box for, 22:33590
handling of ceramic, methods for, 22:767 (GEMP-557)
handling of laboratory ventilation systems for, 21:10515
handling of liquid, apparatus for remote, 21:12492(P)
handling of liquid, design of metering and proportioning pumps for, 23:26413
handling of liquid, equipment and methods for, 24:26916
handling of liquid, tool for changing needles for, 22:12565(P)
handling of open, in nuclear industry, toxicity classification for, 25:35154

handling of reactor-produced, design concepts for hot cells for, 24:31554
handling of small, design of grasping implement for, 25:51777(P)
handling of solutions in glove boxes, design for quantitative, 22:21503
handling of solutions of, in glove boxes, design of apparatus for quantitative, 22:21503
handling of, Australian codes of practice for, 25:26738
handling of, behind shielding wall, design of equipment for remote, 22:49054(P)
handling of, criteria for protection of personnel during, 25:2573
handling of, criticality aspects of, 21:40621
handling of, design and operation of pneumatic burette for, 23:600
handling of, design and operation of tongs for remote, 22:49056(P)
handling of, design and operation of Whiteshell Nuclear Research Establishment hot cell facilities for, 24:11717 (AECL-3420)
handling of, design of air- and water-tight doors for hot cell for, 24:22922 (CEA-CONF-1424)
handling of, design of Chalk River hot cells for safe, 24:7606 (AECL-3429)
handling of, design of demountable shielded hot cell for, 25:51842(P)
handling of, design of distribution system for, 21:16059(P)
handling of, design of double-walled glove box for safe, 25:34855(P)
handling of, design of equipment for remote, 25:54853(P)
handling of, design of glove box for, 25:13185 (AERE-R-6338)
handling of, design of grab-manipulator for remote, 22:49053(P)
handling of, design of grapnel-type equipment for, 25:32198(P)
handling of, design of laboratories and equipment for remote, 21:28144
handling of, design of laboratory for, 22:14609 (SZS-14/67)
handling of, design of laminar flow air hoods for, 21:3203(P)
handling of, design of movable operator cabin for, 22:47275(P)
handling of, design of movable shielded cabin for, 21:10563(P)
handling of, design of remote handling equipment for, 25:13200(P)
handling of, design of remotely operated arm for, 22:27979(P)
handling of, design of rotating-claw tongs for remote, 22:49055(P)
handling of, design of tongs for manipulator for, 22:51213(P)
handling of, during removal from glove boxes, remote, 22:2338(P)
handling of, equipment for, 21:15833 (DPSPU-66-30-8)
handling of, fire protection criteria for facilities for, 25:4194
handling of, fire protection practice for facilities for, 25:37048
handling of, for x-ray fluorescence analysis, nylon-pouch method for, 21:16359
handling of, handbook on methods for, 22:10779
handling of, hazards in, 21:41403 (UCRL-70284)
handling of, in Germany and Italy, legislation for, 22:10758 (ISS-66/32)
handling of, laboratory equipment and working surfaces for, 21:39097(P)
handling of, radiological design criteria for buildings used for, 24:36453 (BNWL-MA-3)
handling of, recommended safe practices and national codes for fire protection of laboratories for, 22:16751
handling of, response to criteria for protection of personnel during, 25:2572
handling of, review of accidents resulting from, 21:1762
handling of, safety hazards in, 22:51217
handling of, safety regulations in Spain for, 25:53988 (A/CONF.49/P-734)
handling of, Scottish legal and safety regulations for, 22:8328 (NP-17195)
handling of, standards for fire protection of facilities for, 25:34853
handling small samples of, design of pneumatic system for, 22:45227
handling unprotected, safety standards for, 21:12617
handling, licensing, and packaging procedures for, catalog of, 21:45181
handling, receiving, and shipping of, for reprocessing plants, 25:48831 (CONF-710801-(Vol.1), pp 437-45)
hazards from fires involving, 25:42499
hazards from, role of emergency situations in, 23:26782
hazards from, standards for protection against, 21:28436 (IAN-SR-1)
hazards in shipment of, 21:31903(R) (BNWL-CC-500)
hazards to industrial personnel legislation for protection against, 22:38283
hazards to man from industrial and medical use of, 22:51639
hazards to personnel, regulations for protection against, 22:36269
ingestion of, effects of particle size on hazards from, 21:28586 (BNWL-SA-1144)
inspection and control of, procedures for safeguard system for, 21:30655 (BNWL-SA-1307)
inspection of, design of remote-controlled microscope for, 21:12730(P)
inspection of, facilities at Chalk River Nuclear Laboratories, 24:36855 (AECL-3604)
inspection of, using neutron radiography, 21:12264
internal friction of metallic, remote control equipment for measurement of, 22:25577
inventories at University of Colorado Medical Center, use of timesharing computer for maintaining and updating, 25:54984
inventories in US industry, development of nondestructive methods for measuring, 24:442
inventories of, estimate sampling method for calculation of accuracy of, 24:439
isotope abundances in, computer program for calculating, 23:35251 (RFP-1098)
laboratory design for handling, 21:1493
leakage from sealed sources in containers, procedures for examining, 24:21152
leakage from Types A and B radioactive material shipping containers, method for calculating, 25:13201
leakage from underground nuclear explosion at Nevada Test Site, calculations for, 25:48681 (FOA-4-4459)
licensing for industrial use, 24:41905
loading into bottles, design of equipment for, 23:7685(P)
losses in fuel cycles and in shipping, methods for minimizing, 24:441
management programs for, summaries of research and development, 23:19924 (WASH-1122)
mass determination of microfine, using Moessbauer effect, 21:2318
measurement and distribution of predetermined quantities of gaseous and liquid, equipment for, 23:599(P)
metallographic facility for, design and operation of glove box, 22:8249 (CONF-670533-9)
metallography of, 21:34853 (ORNL-TM-1733)
metallography of, development of techniques for, 21:36861 (CEA-R-3188)
mixing apparatus for, design of remote controlled, 22:2475(P)
moisture content in solid, gage for measuring, 22:49143 (MLM-1554)
monitoring in atmosphere, equipment and methods for, 23:38119
occurrence in Euratom countries, 22:4303 (EUR-3568)
packaging and shipping of, basis for and Canadian applications of IAEA regulations for, 25:32205
packaging and shipping of, Canadian implementation of IAEA regulations for, 23:548 (CONF-681001-, pp 14-27)
packaging and shipping of, design of lead casks for, 22:291
packaging and shipping of, factors affecting, 22:290
packaging and shipping of, regulations for safe, 25:15864 (CONF-700549-1)
packaging and shipping of, regulations of IAEA, 22:45589
packaging and shipping of, responsibilities of consignor and consignee in, 25:48850 (CONF-710801-(Vol.2), pp 708-18)
packaging and shipping of, review of regulations for safe, 25:26452
packaging and shipping of, standards for, 25:34851
packaging and shipping of, summary of U.S. regulations for, 25:26445 (BRH/DMRE-71-1)
packaging and shipping of, UK implementation of IAEA regulations for, 23:547 (CONF-681001-, pp 1-13)
packaging and shipping of, USAEC recommendations for improving, 23:561 (CONF-681001-, pp 187-98)
packaging and shipping regulations for, effects of criticality on, 22:288
packaging and transportation of, regulations for, 21:14413
packaging and transportation of, review of symposium on, 21:14412
packaging design for shipping of, calculations for heat stress in, 21:30666
packaging for shipping low-level solutions of, design of expendable, 22:294
packaging for shipping, USAEC regulations for, 25:48886 (PB-189506, pp 42-60)
packaging for transport of, calculations for heat effects in design of, 21:30667
packaging for transport, use of polystyrene for, 22:51198 (AERE-M-2086)
packaging for, construction of, 21:30676
packaging for, design of IAEA Types A and B, 22:28043
packaging of friable solid, evaluation of IAEA regulations for Type A, 23:588 (CONF-681001-, pp 646-62)
packaging of, 1967 IAEA regulations for safe, 25:44580
packaging of, for safe shipping, 21:15826
packaging of, review of methods for leakage detection from, 24:33863 (SZS-5/70)
packing and shipping of, in France, economic and legal aspects of, 21:32355
packing in tubes of, equipment for remote, 22:19025(P)
particles of, factors affecting biological significance of, 21:18066
pipetting of solutions of, equipment for, 23:29119
polishing of, design of remote handling rotary equipment for, 24:25190(P)
pool facility for, design standards for, 25:31637
possession and use by Member States of Euratom Community, comparative study of programs for compulsory authorization and declaration regarding, 25:16210 (EUR-4515)
possession and use of, in Italy, legislation governing, 25:32436
precipitation scavenging of, from the atmosphere, 21:1463
preparation and handling of radiation targets of, 22:53169(R) (PPAD-647-D)
preparation for unshielded microprobe analysis, microsampling method for, 22:27957 (WAPD-TM-685)
pressure of fluid, protective device for pressure gage for measurement of, 22:16962(P)
processing buildings for, design of filter plenum heat exchangers for, 25:54950 (CONF-710401-, pp 162-80)
processing in packed beds, thermal effects in, 21:24060 (BNWL-SA-942)
processing of plutonium-containing, safety manual for operation of fluoride volatility process for, 25:8446 (ANL-7672)
processing of underground nuclear explosion-produced, design and operation of small hot cell chemical plant for, 25:4308
processing of, atmospheric radioactivity produced by, 21:6497(T) (AEC-tr-6828)
processing of, engineering drawings for vacuum hot pressing equipment for, 21:6121
processing of, safety criteria for chemical, 21:41396 (ORNL-P-3227)
processing of, safety in, 22:8331
processing of, vessel calibration for nuclear materials management in, 21:34320 (RFP-858)
processing of, volumetric calibration of vessels for, 21:14414
production and sales of, by UKAEA Radiochemical Center, 23:13960
production by neutron activation of high neutron absorption cross-section substances, 23:40956(P)
production by nuclear cratering explosions, 23:49983
production by Project Buggy, preshot prediction of, 24:19122 (UCRL-50390(Rev.1))
protection against, conference on, 24:27593 (CONF-690540)
protection against, standards for radiotherapy personnel for, 23:50566
protection in laboratories, 21:28445 (SZS-14/66)
protection of hands against, using casein and silicon barrier creams, 23:14225
protection of industrial personnel against, 22:45586
protection of public against use of, Navy Department regulations for, 24:32031
purchase and transfer at New South Wales University during 1968, 24:44518(R) (NP-18286)
radiation hazards during handling, 21:1753
radiographic inspection of, using Triga reactor as neutron source, 24:5833
radiography of, design and operation of equipment for x-ray, 25:57688
radiography of, equipment and method for underwater cold-neutron, 25:57679(T) (LB/G-2986)
radon emission from, in confined spaces, methods for measurement of, 25:26356
recovery after aircraft accident, 22:45270
reflectivity measurements in glove boxes, design of optical system for, 23:4863
reflectivity measurements of, reflectometer in glove box for optical, 23:38372
regulations for sale of, review of Italian, 24:9630
release as by-products of industrial applications of nuclear explosions, role of AEC in setting regulations for, 24:23232 (SWRHL-82, pp 713-20)
release from nuclear excavation explosions, methods for prediction of, 24:31526 (UCRL-50230(Rev.1))
release from nuclear explosions to environment, safety evaluation of, 24:33821
release from nuclear power plants, effects on annual atmospheric burden, 25:8371 (SZS-14/70 (pp 1-10))
release in accidents, summary of 347 cases of, 25:19013 (JAERI-Memo-4240)
release of gaseous nuclear power plant, to atmosphere, safety criteria for, 24:27234 (CONF-690540-, pp 22-31)
release of gaseous nuclear power plant, to atmosphere, safety criteria for, 24:27235 (CONF-690540-, pp 32-42)
release of, analysis of accidental, 24:50940(T) (UCRL-Trans-10471)
release to atmosphere after underground nuclear explosions, methods for predicting, 23:45410 (NVO-40(Rev.2), pp 261-70)
release to atmosphere from nuclear facilities, mathematical evaluation of environmental contamination from, 24:31487 (JUL-637-ST)
release to atmosphere from nuclear industry, review of methods for control of, 24:25143
release to environment from nuclear power plants, estimation of effects on background radiation levels of long-term, 25:55200
remote manipulators for, supervisory control of, 21:45287
removal from exhaust air, design and operation of large sand filters for, 23:13904 (DPSPU-68-30-5)
removal from exhaust air, design and operation of large sand filters for, 23:29070
removal from exhaust air, efficiency of plastic fiber high-efficiency particulate air filters for, 23:29069
removal from exhaust air, in-place testing of high-efficiency particulate filters for, 24:31567
removal from gases, design and testing of high-efficiency filters for, 25:13192 (NACAR-10012)
removal from large tubing using foam-supported chemicals, 23:17728 (CEA-R-3661)
removal from latex gloves, equipment and method for, 23:17729 (CEA-R-3664)
removal from natural gas wells, purging methods for, 23:15996 (UCRL-50519)
removal from personnel following external or internal deposition, methods for, 25:32393 (EUR-4569)
removal from stainless steel surfaces, chemical method for, 24:19063(P)
removal from water supplies using coarse sand filters, 21:1495
replication of irradiated test samples of, epoxy resins and silicone rubbers for, 21:41686 (KAPL-P-3367)
research on plutonium-238-containing, glove box facility for pyrochemical, 24:5779
safety incidents during December 1969 to January 1970, 24:22376
sale, shipping, and storage of, amendment to Italian Act 1860 on, 25:42040
sampling air for, design of equipment for, 22:2476(P)
sampling of liquid, design of device for, 22:35989(P)
sampling of liquid, design of remote-control pipets for, 22:37915

sampling of liquid, equipment for, 22:4061(P)
separation by ion exchange and solvent extraction, 24:26917
separation from effluent water, methods for, 23:38224
separation from exhaust gases, design of equipment for, 22:2336(P)
separation from liquids by filtration through acid-activated diatomaceous earth, 22:21175(P)
separation from water, design of filter plant for, 22:12410
separation from water, sorption method for, 22:30671(P)
separation of cations of, from aqueous solutions by foam fractionation method, 23:13841
separation of trace amounts of, design of automatic chromatograph for, 22:14571
separation of, from liquids by evaporation, 21:3159(P)
shielded container for ion exchange material-absorbed, design of, 25:15872(P)
shipment by sea, recommendations for safety in, 25:42449
shipment from Juelich research reactors, administrative and legal problems of, 24:36766 (JUL-603-ST, pp 119-28)
shipment in cargo and passenger aircraft, international regulations governing, 25:42457
shipment in cargo and passenger aircraft, international regulations governing, 25:42456
shipment of, bibliography of current literature on, 21:23615 (ORNL-NSIC-32)
shipping of, implementation of AEC regulation 10 CFR 71 for containers for, 23:550 (CONF-681001-, pp 37-46)
shipping accidents involving, analysis of, 22:28053
shipping across non-contracting states, liability insurance coverage for, 24:22947
shipping and storage of, design and fabrication of containers and cradles for, 22:292
shipping and storage of, design and testing of lead containers for, 25:21284 (RISO-231)
shipping and storage of, design of container with leak-tight closure for, 23:601(P)
shipping and storage of, safety standards for, 22:21303
shipping and transfer of liquid, design of container for, 22:30750(P)
shipping and transportation of, safety standards for, 21:46902
shipping by air, International Air Transport Association regulations on, 22:28047
shipping by air, land, and sea, 1967 IAEA regulations for safe, 25:44580
shipping by flatbed tractor-trailer, dynamic environment during, 22:284 (SC-RR-66-677)
shipping by highway vehicles, impact studies of accidents during, 24:16819 (ORNL-NSIC-61)
shipping by rail and truck in Kentucky and Tennessee in 1968, shock and vibration data for container during, 25:54974 (SC-M-710241)
shipping by rail or motor vehicle, US Dept. of Transportation regulations for, 25:57710
shipping by rail, IAEA and RID regulations for, 22:28048
shipping by railroad car ferry, health and safety aspects of, 25:42042
shipping by road, UK regulations for, 25:34859
shipping by sea of, Australian guidelines for safe, 24:2416 (NP-18041)
shipping by sea, insurance liability during, 25:52103 (A/CONF.49/P-767)
shipping casks for, puncture resistance testing of, 22:30796 (ORNL-TM-1312(Vol.3))
shipping casks for, shielding requirements for, 23:7281(R) (ORNL-4280)
shipping container design for, 21:32358(P)
shipping container for, design and testing of, 22:25574 (RFP-1042)
shipping container for, design of, 22:25630(P)
shipping container for, design of, 21:16098
shipping container for, design of closed, 22:23251(P)
shipping container for, design of fire-protected, 23:24418(P)
shipping container for, design of lead-lined, 22:51214(P)
shipping container for, design of protective energy absorbers for, 25:48881 (ORNL-TM-1312(Vol.10))
shipping container for, design of protective packaging for, 25:13196(P)
shipping container for, design of sealing device for, 25:34850(P)
shipping container for, design of thermally protected, 23:11746(P)
shipping container for, safety evaluation of simple, 24:11755 (LA-4325)
shipping containers for, design of closure for, 22:49058(P)
shipping containers for, design of tie-down devices for, 23:26494 (ORNL-TM-1312(Voi.7))
shipping containers for, effects of fires on safety of, 22:47264 (CEA-R-3373)
shipping from ORNL, packaging, labeling, and marking guide for, 24:19185 (ORNL-TM-2769)
shipping in Australia, containers and methods for, 25:51843
shipping in Federal Republic of Germany, legal aspects of, 24:44231
shipping in France, IAEA regulations on, 22:28051
shipping in France, legal priorities in insurance coverage for, 25:52102 (A/CONF.49/P-624)
shipping in Hungary, testing of Type A packaging for, 25:51810
shipping in India, operating experience in, 25:48832 (CONF-710801-(Vol.1), pp 447-61)
shipping in Italy, economics and accident probabilities in, 25:48826 (CONF-710801-(Vol.1), pp 336-54)
shipping in Sweden, regulations for, 22:17026
shipping in UK, IAEA regulations for, 22:28050
shipping in US, accident experience with Type B packaging for, 25:51806
shipping in US, implementation of IAEA regulations for, 22:28049
shipping in USA, regulations for, 22:281 (CONF-661011, pp 11-28)
shipping of 40,000 Ci cobalt equivalent, design of container for, 24:29492
shipping of alpha-emitting, safety evaluation for, 24:25249 (ORNL-4554)
shipping of gamma-emitting, method for calculation of safe distances in marine, 25:42043
shipping of high-activity, East German regulations for safe, 25:13194 (SZS-19/70)
shipping of large quantities of, advantages and economic aspects of laminated uranium containers for, 22:45264 (KY-D-2554)
shipping of large quantities of, design and fabrication of laminated depleted uranium containers for, 22:45265 (KY-F-96)
shipping of large quantities of, design and testing criteria for containers for, 25:51822
shipping of large quantities of, testing of laminated uranium containers for, 22:45263 (KY-D-2553)
shipping of liquid and solid nonfissile, tungsten-shielded container design for, 23:38220 (ORNL-TM-2626)
shipping of low specific activity, IAEA regulations on, 22:28045
shipping of, accident prevention procedures for, 21:30675
shipping of, activities of specialized companies in, 22:296
shipping of, administration of safety program for, 25:48849 (CONF-710801-(Vol.2), pp 689-707)
shipping of, AEC licensing of overseas, 25:48811 (CONF-710801-(Vol.1), pp 98-105)
shipping of, amendement to West German regulations for, 24:9623
shipping of, analysis of international and national design and test requirements for Type A packaging for, 25:51808
shipping of, analysis of problems in marine, 24:22970
shipping of, applications for approval of containers for, 25:48806 (CONF-710801-(Vol.1), pp 36-44)
shipping of, at Bhabha Atomic Research Center, design and testing of packaging for, 25:51812
shipping of, Australian regulations for marine, 24:41647
shipping of, Australian regulations for marine, 24:41648
shipping of, brittle fracture testing of large steel-plate containers for, 23:565 (CONF-681001-, pp 245-52)
shipping of, Canadian regulations on, 22:28052
shipping of, cask shielding requirements for, 21:46643(R) (ORNL-4134)
shipping of, changes in IAEA regulations on, 25:48809 (CONF-710801-(Vol.1), pp 62-74)
shipping of, civil responsibility and insurance in maritime, 25:55252 (NP-18752)
shipping of, Commission on European Communities third party liability rules on, 24:22951
shipping of, comparison of IAEA and USAEC regulations for, 24:435
shipping of, computer analysis of criticality safety of containers for, 23:580 (CONF-681001-, pp 448-63)
shipping of, construction and testing of containers for, 23:45495
shipping of, container standards for safe, 22:299
shipping of, container standards for safe, 23:2544(T) (ORNL-tr-1809)
shipping of, criteria for leak-tightness and shielding properties of packaging of, 25:51816
shipping of, Department of Transportation regulations for, 23:29122
shipping of, description of containers for national and international, 23:583 (CONF-681001-, pp 487-500)
shipping of, design and fabrication of jointless shielded containers for, 23:13969(P)
shipping of, design and integrity standards for Type A and B containers for, 24:29484 (SZS-4/70)
shipping of, design and testing of casks for, 22:289
shipping of, design and testing of container for, 23:543 (AERE-M-2087)
shipping of, design and testing of container for, 23:9686
shipping of, design and testing of Dow Model 1518 fiberboard-insulated containers for, 23:577 (CONF-681001-, pp 410-25)
shipping of, design and testing of large-volume Type B containers for, 25:51826
shipping of, design and thermal response testing of containers for, 25:48861 (CONF-710801-(Vol.2), pp 847-59)
shipping of, design considerations for high-volume, IAEA Type B protective overpack containers for, 25:48835 (CONF-710801-(Vol.1), pp 490-502)
shipping of, design guide for materials and fabrication methods for containers for, 23:568 (CONF-681001-, pp 278-84)
shipping of, design modification of ATMX-500 railroad car for, 25:57705 (MLM-1812)
shipping of, design of accident-resistant containers for, 25:48888 (PB-189506, pp 78-81)
shipping of, design of cask for, 22:36020(P)
shipping of, design of container for, 22:48991(P)
shipping of, design of container for, 24:7618(P)
shipping of, design of container for, 25:39699(P)
shipping of, design of container for, 23:17740(P)
shipping of, design of container with corner shielding for, 24:7619(P)
shipping of, design of container with safety shield for, 23:9684(P)
shipping of, design of containers for, 25:48887 (PB-189506, pp 61-77)
shipping of, design of cylindrical container for, 25:44574(P)
shipping of, design of fire- and shock-resistant shielded containers for, 25:18633(P)
shipping of, design of fire-protected container for, 22:45268(P)
shipping of, design of fire-resistant container for, 25:18632(P)
shipping of, design of lead-shielded protective container for, 25:6526(P)
shipping of, design of ORNL Dry Hole Charger container for, 23:17739
shipping of, design of shielded container for, 23:7721(P)
shipping of, design of shielded container for, 25:13204(P)
shipping of, design of shock-resistant steel container for, 25:34858(P)
shipping of, design of steel-clad lead-shielded container for, 23:40977(P)
shipping of, design of tank trucks and trailers for, 22:297
shipping of, design of variable configuration container for, 23:19925(P)
shipping of, design of vessels for, 22:37964(P)
shipping of, detection and analysis of shipper—receiver differences in, 24:440
shipping of, development and use of standardized packaging for, 24:421
shipping of, development of IAEA regulations for safe, 23:555 (CONF-681001-, pp 99-113)
shipping of, development of IAEA regulations for testing of packaging for, 25:51805
shipping of, development of regulations for marine, 23:552 (CONF-681001-, pp 62-71)
shipping of, directory of containers for, 24:22930 (WASH-1145)
shipping of, East German regulations for, 22:285 (SZS-10/67)
shipping of, economic aspects of, 23:564 (CONF-681001-, pp 222-30)
shipping of, English law on third party liability in maritime, 24:22938
shipping of, equipment and methods for drop and thermal testing of Type B packaging for, 25:51815
shipping of, equipment and methods for testing Type A packaging for, 25:51809
shipping of, evaluation of IAEA regulations for Type A containers for, 22:47307 (EUR-3485(Vol.2))
shipping of, evaluation of IAEA safety tests on containers for, 22:45260 (EUR-3485(Vol.3))
shipping of, evaluation of IAEA safety tests on containers for, 23:21925 (EUR-3485(Vol.1))
shipping of, evaluation of ORNL Dry Hole Charger container for, 23:7717 (ORNL-TM-2302)
shipping of, evaluation of ORNL Type D-38 container for, 23:594 (ORNL-TM-2220)
shipping of, evaluation of packaging compliance to regulations for, 25:48842 (CONF-710801-(Vol.2), pp 592-602)
shipping of, fire and impact resistance testing of containers for, 23:572 (CONF-681001-, pp 320-43)
shipping of, fire resistance testing of large containers for, 23:570 (CONF-681001-, pp 292-305)
shipping of, fire shield structure with decay heat dissipation method for containers for, 22:42956(P)
shipping of, free-drop testing of specially-designed shock absorbers for Type B containers for, 25:51836
shipping of, French programs for mechanical and thermal testing of packaging for, 25:51814
shipping of, functional separation of mechanical components in packaging for, 25:51821
shipping of, German regulations for, 22:40355
shipping of, government indemnity and third party liability insurance for, 25:48838 (CONF-710801-(Vol.2), pp 516-31)
shipping of, guide to US regulations for, 25:48807 (CONF-710801-(Vol.1), pp 45-51)
shipping of, hazard classification for, 22:28040
shipping of, heat transfer characteristics of externally-finned containers for, (E/T), 25:51827
shipping of, high cost of governmental regulations for, 23:554 (CONF-681001-, pp 91-8)
shipping of, IAEA definition of competent authority role in, 22:28039
shipping of, IAEA packaging requirements for, 22:28042
shipping of, IAEA regulations for, 24:29491
shipping of, IAEA regulations for, 25:21288
shipping of, IAEA regulations for, 22:45262 (EUR-3485(Vol.5))
shipping of, IAEA regulations for external radiation hazards, 22:28046
shipping of, IAEA regulations for safe, 24:29489
shipping of, IAEA regulations on, 22:28056
shipping of, IAEA regulations on, 22:28044
shipping of, IAEA test regulations for Type B containers for, 22:45261 (EUR-3485(Vol.4))
shipping of, impact testing of cubic and cylindrical models of containers for, 23:575 (CONF-681001-, pp 373-98)
shipping of, implementation of AEC regulation 10 CFR 71 for containers for, 23:551 (CONF-681001-, pp 47-61)
shipping of, implementation of IAEA standards for inspecting containers for safe, 25:51831
shipping of, improper labeling in, 22:45269
shipping of, indemnity and insurance protection for, 25:48837 (CONF-710801-(Vol.2), pp 503-15)
shipping of, insurance and liability in, 22:28054
shipping of, insurance coverage of transport vehicle for, 24:22950
shipping of, insurance for additional non-nuclear cargo and ship hulls in marine, 24:22955
shipping of, insurance in United Kingdom for, 22:28055
shipping of, insurance liability coverage of cargo and hull for marine, 24:22954
shipping of, leak testing of containers for, 23:33356
shipping of, legal and security implications of marine, 24:419
shipping of, legal problems in railway, 23:558 (CONF-681001-, pp 124-35)
shipping of, liability assignment to nuclear plant operators for, 24:22968
shipping of, liability coverage of shipper for damage to carrying ship, 24:22969

shipping of, liability insurance available in London for, 24:22953
shipping of, liability insurance based on hazard class of material for, 24:22952
shipping of, liability insurance coverage for, 24:22949
shipping of, liability insurance coverage for Japanese, 24:22945
shipping of, liability insurance for UK third parties in, 24:22944
shipping of, liability of carriers and plant operators under Paris and Vienna Conventions for, 24:22963
shipping of, liability of carriers and third parties under UK law for, 24:22962
shipping of, liability of plant operators and shipowners under Paris and Vienna Conventions for, 24:22957
shipping of, liability of plant operators in international, 24:22964
shipping of, liability of plant operators under Paris Convention for, 24:22966
shipping of, liability of shipowners in, 24:22941
shipping of, liability of third party in marine, 24:22971
shipping of, liability under 1958 Geneva and 1960 Paris Conventions for marine, 24:22959
shipping of, liability under Italian law for marine, 24:22960
shipping of, liability under maritime and nuclear laws for, 24:22958
shipping of, liability under US law for marine, 24:22961
shipping of, list of national authorities responsible for safe, 24:41642 (NP-18338)
shipping of, mathematical model for predicting free-fall damage to containers for, 25:51835
shipping of, method for analysis of effects of fire on containers for, 23:590 (CONF-681001-, pp 673-90)
shipping of, method for calculating gas and radioactivity leakage from Types A and B containers for, 25:13201
shipping of, method for controlling radiation exposure of passengers in aircraft during, 25:48841 (CONF-710801-(Vol.2), pp 564-91)
shipping of, methods for leak testing of containers for, 24:27314 (CONF-690540-, pp 141-51)
shipping of, methods for leak-tightness testing of large containers for, 25:51818
shipping of, methods for mechanical and thermal testing of types UKT-I-V and UKT-II-V packaging for, 25:51820
shipping of, methods for safe dissipation of heat during, 25:46607 (AHSB(S)R-193)
shipping of, methods for studying thermal performance of containers for, 25:51833
shipping of, methods for testing containment and shielding characteristics of packaging for, 25:51817
shipping of, methods for testing mechanical and thermal performance of Type B containers for, 25:51834
shipping of, methods for thermal testing of Type B containers for, 25:51832
shipping of, nondestructive method for label verification in, 25:48816 (CONF-710801-(Vol.1), pp 185-7)
shipping of, NRTS operating experience on, 23:557 (CONF-681001-, pp 118-23)
shipping of, Oak Ridge Operations management of, 23:553 (CONF-681001-, pp 72-90)
shipping of, package testing standards for, 25:48804 (CONF-710801-(Vol.1), pp 1-24)
shipping of, packaging and safety considerations in, 22:287
shipping of, packaging design for, 22:30813
shipping of, packaging regulations for commercial carrier for, 23:556 (CONF-681001-, pp 114-17)
shipping of, Paris and Vienna Conventions on, 24:22935
shipping of, problems in, 25:48884 (PB-189506, pp 1-11)
shipping of, problems in implementing IAEA regulations for, 23:549 (CONF-681001-, pp 28-36)
shipping of, protection against theft during, 25:48893 (PB-189506, pp 114-19)
shipping of, quality assurance program for design and fabrication of containers for, 25:51830
shipping of, radiometric method for radiation-leakage testing of containers for, 25:51819
shipping of, regulations for, 21:24188
shipping of, regulations for on-site and off-site, 25:48810 (CONF-710801-(Vol.1), pp 75-97)
shipping of, regulatory and testing developments in lead shields for containers in UK for, 25:48845 (CONF-710801-(Vol.2), pp 634-51)
shipping of, reliability testing of containers for, 23:2519 (ORNL-4329)
shipping of, resolution of liability conflicts under Paris and Vienna Conventions for, 24:22967
shipping of, responsibilities of consignor and consignee in, 25:48889 (PB-189506, pp 82-91.A)
shipping of, responsibility of carrier in, 25:48890 (PB-189506, pp 92-9)
shipping of, review of IAEA regulations for safe, 24:33864
shipping of, review of incident during, 25:48896 (PB-189506, pp 141-52)
shipping of, review of regulations for, 23:31511
shipping of, review of US Dept. of Transportation regulations for safe, 25:48782 (CONF-710617-8)
shipping of, review on IAEA regulations for, 25:48808 (CONF-710801-(Vol.1); pp 52-61)
shipping of, safeguards regulations in, 25:48892 (PB-189506, pp 107-13)
shipping of, safety and technology of maritime, 24:22940
shipping of, safety criteria for packaging for, 21:30671
shipping of, safety in processing for, 25:48839 (CONF-710801-(Vol.2), pp 532-51)
shipping of, safety procedures for, 24:22933
shipping of, safety regulations for, 21:15826
shipping of, shielded container tiedown safety standards for, 23:569 (CONF-681001-, pp 285-90)
shipping of, shipowner problems of, 24:22942
shipping of, shock and vibration measurements during normal rail and truck, 25:48865 (CONF-710801-(Vol.2), pp 905-33)
shipping of, single vehicle accident during, 25:48815 (CONF-710801-(Vol.1), pp 167-84)
shipping of, standardization and testing of Types A and B packaging for, 25:51811
shipping of, standards for, 21:15819 (ORNL-NSIC-30)
shipping of, standards for safe air, 25:34852
shipping of, status of European insurance coverage for, 24:22943
shipping of, structural integrity and thermal behavior of ORNL Garden Carrier No. 2 for, 23:45491 (ORNL-TM-2531)
shipping of, survey on radiation exposure of personnel during, 25:48840 (CONF-710801-(Vol.2), pp 552-63)
shipping of, testing and evaluation of containers for compliance with Title 10 CFR 71 standards for, 23:579 (CONF-681001-, pp 438-47)
shipping of, testing of large lead-shielded containers for, 23:566 (CONF-681001-, pp 253-67)
shipping of, testing of packaging for, 21:30670
shipping of, testing of Type B shielded containers for, 22:51200 (CEA-R-3372)
shipping of, thermal testing of container for, 22:42996 (NYO-2539-9)
shipping of, thermal testing of lead-backed thick steel plate containers for, 23:9676 (AERE-R-5870)
shipping of, third party liability and insurance relations in maritime, 24:22937
shipping of, third party liability in maritime law for, 24:22936
shipping of, third party liability insurance experience under German financial security ordinance for, 24:22956
shipping of, third party liability insurance when material carrier is liable, 24:22948
shipping of, US Dept. of Transportation regulations for, 25:48885 (PB-189506, pp 12-41)
shipping of, US Dept. of Transportation regulations for, 25:48805 (CONF-710801-(Vol.1), pp 25-34)
shipping of, US programs for testing packaging for, 25:51813
shipping of, US railroad accident data for use in developing safe equipment and methods for, 25:26447 (HW-76299)
shipping of, USAEC accident experience in, 23:562 (CONF-681001-, pp 199-209)
shipping of, USAEC radiological assistance program for accidents during, 25:48895 (PB-189506, pp 126-40)
shipping prior to irradiation, standard for equipment and methods for, 25:32202
shipping regulations for, railroad, 22:298
shipping through Mont Blanc Tunnel, safety evaluation of, 25:54973 (RT/PROT-(71)11)
shipping through UK ports, standard for safe, 25:57711
shipping to and from US, liability insurance coverage for, 24:22946
shipping, insurance coverage and safety of, 25:19017
solutions of, extrapolation method for determining drop weights of, 21:14516
sorption by modified polyethylene powder, 25:8282(P)
standard for sampling of airborne, in nuclear facilities, 25:57712
standards for shipping by railway in UK, 25:57713
standards for, development of US, 25:32131
standards in use of, users' guide for, 22:33474 (NP-17502)
storage and transportation of liquid, design of devices for, 21:30231
storage and transportation of, review on, 21:15731
storage container for, design of variable volume, 22:48993(P)
storage of heat-producing, during marine transport, recommendation for safe, 25:51829
storage of in-transit, UK regulations for, 25:39697
storage of in-transit, UK regulations for temporary, 25:37569
storage of solutions of, effects of silicone-treated containers on, 24:4358
storage of, design of fire-resistant container for, 25:54977(P)
storage of, design of multipurpose shielded container for, 22:48989(P)
storage of, design of shielded container for, 25:21378(P)
storage of, design of shielded container for, 25:48898(P)
storage of, effects of aromatics on, 22:6337
storage of, mechanism for handling containers used for, 22:49057(P)
storage of, pool facility for, 21:19486
storage regulations for Italian, legal aspects of, 24:36540
storage sites for, German legal requirements for construction and equipping of, 21:41188
survey of hazards from, in secondary schools for, recommendations for protection against, 24:25496 (NP-18142)
technology of, survey of, 22:12959
thermal analysis system for, 25:51938
thermal conductivity of, measurement using heat produced by decay, 24:39709
thermal outputs from, design of high-wattage water-bath calorimeter for measuring, 23:17850
transfer from preparation facility to analytical facilities, design of pneumatic tube system for, 25:51793
transfer in and out of containers, design of leak-tight conveyer for, 25:54988(P)
transfer of gaseous, mechanical pump for, 21:26138(P)
transfer system for, design of duct closure for, 25:8458(P)
transfer to containers, design of fluid-tight passageway for, 24:7623(P)
transport by ship, method for calculating safe distances from crew and passengers during, 24:34358
transport by surface runoff, computer models of, 22:35937(R) (AD-661249)
transport from shipping container to hot cell, design of improved link-type conveyer for, 25:10803(P)
transport from stratosphere to troposphere, meteorological aspects of, 22:48951
transport from stratosphere to troposphere, meteorological aspects of, 22:48950
transport in France, 1967 summary of, 23:4461 (NP-17597, pp 109-35)
transport in France, history of, 21:30668
transport in Juelich hot laboratories, design and operation of equipment for, 24:31547
transport in rivers, mathematical model for, 22:35924 (ORO-490-15)
transport in U.S.S.R., regulations for, 22:6810(T) (AEC-tr-6467/2, (pp 143-76))
transport of foils of, conversion of automatic slide projector to system for, 23:7896
transport of liquid, cask for, 22:47309(P)
transport of stratospheric, hemispheric analyses of potential vorticity for, 22:21207(R) (NYO-3317-3)
transport of, 1963 UKAEA symposium on, 21:43215 (AHSB(A)R-6)
transport of, design of flask for, 22:19088(P)
transport of, design of system in TRU for, 22:8329 (ORNL-TM-2022)
transport of, list of accident occurrences during, 24:5534 (CEA-Bib-164)
transport of, regulations for control of, 21:28504
transport on public roads, regulations of International Transport Committee of the Economic Commission for Europe concerning, 22:12863
transport regulations for, 21:36329
transport through ecosystems, 22:51875 (TID-4060(1st Ed.))
transportation in France, regulations governing, 25:21732
transportation in Great Britain, regulations governing, 25:21733
transportation in Great Britain, regulations governing, 25:21729
transportation of, IAEA regulations for safe, 21:39132 (RCC-R-195(Rev.))
transportation of, in international traffic, factors affecting, 21:14406 (WASH-2808)
transportation of, regulations regarding, 24:50934
transportation of, safety regulations in Spain for, 25:53988 (A/CONF.49/P-734)
uptake by man, biological monitoring for dosimetry following accidental, 23:825
use by industries and laboratories, licensing in European countries for, 22:490 (CONF-660649)
use in gas and oil well logging, handling and storage problems of, 22:40696
use in luminescent light sources, 21:36284(P)
viewing of metallographic samples of, design of equipment for remote, 25:48899(P)
volume of liquid, equipment for measuring sample, 25:51773(P)
weighing of, design of vacuum microbalance for, 22:4504 (MLM-290)
welding of, apparatus for arc, 22:47667(T) (RFP-Trans-37)

RADIOACTIVE MINERALS
see also Pitchblendes
see also Uranium Ores
activity of Trinitite, analysis for, 21:6025
bibliography of translations of Eastatom and Transatom publications, 22:2191 (FTB-5(Bibl.))
bibliography on occurrence in US, 24:36424 (RME-4110)
book: Geochemistry and Mineralogy of Radioactive Elements in Siberia (In Russian), 24:44135
content in kimberlites from Siberian Plateau, 24:27251
description of Congolese, 22:48956
determination in rocks, nomograms for radiometric, 21:43068(T) (AEC-tr-6903)
gamma emission from, use in radiometric method for measuring bed thickness, 23:2430
gamma radiation fields in variable density, similarity modeling of, 25:21181
milling and mining of, code of practice for radiation protection of personnel in, 24:12096 (STI/PUB-151)
mining and processing of, in Belgium, 23:41573
occurrence in Bur region of Republic of Somalia, 25:18541
processing of, efficiency of combined lump-and-batch method for industrial, (T), 25:54847
prospecting and development of, in Congo Republic, methods for, 24:44139
prospecting for, closed circuit method for measurement of radon-220/radon-222 ratio in soil gas for, 25:2378
prospecting for, radiometric instruments for, 25:57867
prospecting for, use of aerial radiometry for, 21:41003
prospecting for, use of helium method for, (T), 21:40999(T) (AEC-tr-6901)
prospecting in Egypt, methods for, 24:44138
radiation fractionation from uranium and its daughter products in, gamma, 21:193(T) (AEC-tr-6830)
radiation from Brazilian, high-background, 22:2218
radon emission from, into atmosphere and water, 25:15774
radon loss from, measurement and mechanisms of, 22:6438
radon-219 emission from, into atmosphere and water, 25:15774
rare gas content of, 25:32077
transport in rocks and soils, role of microorganisms in, 22:12798

Radioactive Ores
see Radioactive Minerals

RADIOACTIVE STATIC ELIMINATORS
characteristics and performance, 23:43637
performance of beta, for powders, 23:35423
performance of beta, for powders, 23:35436
performance of radioisotopic, 22:33613
radiation source for, fabrication of isotope, 24:5957(P)
radiation sources for, method for cleaning soiled surfaces of, 24:9618(T) (CEA-tr-R-1971)

RADIOACTIVE VOLTAGE GENERATORS
(Devices primarily intended as sources of potential difference and not as current or power sources.)

cerium-144 heat source in, 21:39129 (ORNL-4155)
control for standard, development of optimal automatic feedback, 24:22914
design and characteristics of standard, 22:47437
design and performance evaluation of 5- and 50-W(e) isotopic thermoelectric and thermionic, Euratom program for, 21:26108
design and performance of 125 W isotopic thermoelectric, 21:26106
design of high-voltage γ-electric cell, for propulsion and power generation, 21:6152
design of isotopic thermoelectric, for submerged repeaters in submarine telephone cable, 21:26085
design of isotopic thermoelectric, for Swedish navigation lights, 21:26088
design of radioactive waste-powered, 21:36294(P)
design of radioisotope-powered, 21:36290(P)
design of radioisotope-powered photo-voltaic, 21:36291(P)
design using plutonium-238 as heat source, 21:1522 (GA-5317)
development for RISE, for use in hydrospace, 21:1518 (AGN-8163(Vol.1))
development in Europe, 21:36267
development of, 21:39141
development of comparison calorimeter, 22:43158 (SC-CR-68-3625)
development of isotopic thermoelectric, RIPPLE program for, 21:26101
development of isotopic, for aircraft communication and navigation systems, feasibility study of, 21:26086
development of isotopic, for European space satellites, 21:26082
development of isotopic, for long range telecommunications systems, 21:26083
development of isotopic, for microwave telecommunications systems, 21:26084
development of isotopic, for remote automatic weather stations, feasibility of, 21:26087
development of isotopic, for space vehicles, comparison of conversion methods in, 21:26081
development using optimal feedback control, 23:50046
feasibility of strontium-90-fueled isotopic, 21:26105
industrial applications of isotopic, conference on, 21:26079
isotopic generators for, bibliography on, 21:10548 (NP-16437)
safety in space, 21:43193 (SC-DC-67-1900)
use in space vehicles, potential radiation hazards from, 21:26117
use of, international study of terrestrial, 21:45322
use of, safety considerations for terrestrial, 21:26118

RADIOACTIVE WASTE
(Including processing, disposal, handling, etc.)
accidental release of gaseous or liquid, at Oak Ridge National Laboratory during 1968, 23:41336(R) (ORNL-4423)
activity at Savannah River Plant during July 1 to December 31, 1966, 21:16336(R) (DPST-67-30-1)
activity in surface waters near reactors from, underwater γ spectrometry for monitoring, 21:40992 (AD-648810)
activity of liquid, from industrial, medical, and research uses of radioisotopes, method for measurement of, 24:27313 (CONF-690540-, pp 57-75)
activity of low-level liquid, device for measuring, 22:16892(P)
activity of, measurement of α and β, 23:49921
administrative aspects of, 24:7919
analysis at Harwell for radioiodine, 21:25766 (AERE-R-5406)
analysis for cesium-137, 22:16389 (CEA-R-3391)
analysis for cesium-137 by extraction using chloroform and gamma spectroscopy, 23:19661 (STI/DOC-10/95)
analysis for elements associated with, in aquatic ecosystems by neutron activation, 23:4576
analysis for fissionable material, 21:30345(R) (IN-1063)
analysis for fissionable material by neutron irradiation and measurement of delayed neutrons, 22:47075 (LA-DC-9848)
analysis for fissionable materials by delayed-neutron response technique, 23:2230
analysis for fissionable materials by neutron interrogation methods, 24:29216
analysis for fissionable materials, nondestructive methods for, 25:37305 (A/CONF.49/P-842)
analysis for plutonium, 22:47073 (CONF-680506-2)
analysis for plutonium and uranium by destructive methods, 25:37269(T) (LA-tr-71-24)
analysis for plutonium and uranium for safeguarding strategic materials, 24:39194 (WASH-1147, pp 96-108)
analysis for plutonium and uranium, destructive methods for, 25:20911
analysis for plutonium by alpha particle measurements, 23:19661 (STI/DOC-10/95)
analysis for plutonium by passive γ spectroscopy, interferences in, 25:51386 (CONF-710617-15)
analysis for plutonium by precipitation and alpha counting, 23:19661 (STI/DOC-10/95)
analysis for plutonium of, development of radiometric methods for, 24:428
analysis for plutonium, computer-controlled system for, 25:57897
analysis for plutonium, design of counting system for, 25:4292
analysis for plutonium, development of spectrometer systems for gamma and neutron scanning, 25:13230(R) (WCAP-7562-1)
analysis for plutonium-238, 22:33208(R) (MLM-1456)
analysis for plutonium-238 by γ scanning, in-line, 25:6399(R) (MLM-1751)
analysis for plutonium-238 in steel drums, gamma scintillation spectroscopy system for, 22:43080
analysis for plutonium-238, method for, 22:1956(R) (MLM-1405)
analysis for plutonium-238, using 765-keV γ measurements, 21:36327
analysis for plutonium-239, gamma spectrometer for, 25:48952 (ARH-1993)
analysis for plutonium-239, scintillation detector system for, 24:25261 (UCRL-50007-69-3, pp 1-9)
analysis for plutonium-240, by neutron coincidence counting, 24:39172(R) (LA-4457)
analysis for polonium-210 by separation and counting, 23:27
analysis for potassium by atomic absorption, 21:30345(R) (IN-1063)
analysis for ruthenium, 23:4 (IN-1203, pp 8-29)
analysis for ruthenium, spectrographic, 25:8196 (BARC-504)
analysis for ruthenium-106 by γ scanning, 24:33754(R) (BNWL-1401)
analysis for ruthenium-106, by γ scanning, (E), 24:36044(R) (BNWL-1315-2)
analysis for strontium-90 by solvent extraction and beta counting, 24:22593 (CEA-R-3908)
analysis for sulfates in presence of phosphate by volumetry using nitrochromazo, 24:11427 (CEA-R-3909)
analysis for sulfur-35 at Savannah River Plant, 22:37654 (UCRL-18140, pp 57-69)
analysis for uranium by measurement of internal conversion x rays, 23:35012
analysis in large and small containers using mobile assay system, 25:57704 (GULF-RT-A-10826)
analysis of 1-gal containers of, for plutonium-239 and -240, performance of isotopic source assay system for, 25:48879(R) (GULF-RT-10697)
analysis of 55-gal drums of, for plutonium, performance of mobile assay system for, 25:48879(R) (GULF-RT-10697)
analysis of 55-gal drums of, using portable nuclear materials assay system, 25:21281(R) (GULF-RT-10459)
analysis of alpha-active liquid and paper, for nitrate nitrogen, spectrophotometric, 24:22578 (FOA-4-4409)
analysis of aqueous solutions of, for radioisotopes following separation by solvent extraction using monoisooctyl methylphosphonate, 25:51383 (A/CONF.49/P-451)
analysis of aqueous, for uranium, spectrophotometric, 25:57343
analysis of ash-type, for plutonium-239, development of transportable linear electron accelerator system for, 25:21302
analysis of calcinated solutions of, from Purex Process, method of sample preparation for, 24:2100 (IN-1316, pp 41-59)
analysis of cans of, for plutonium-238 by gamma scanning and calorimetry, 24:27189(R) (MLM-1612)
analysis of cans of, for plutonium-238 by gamma spectroscopy, 23:28720 (MLM-1585)
analysis of drum-contained low-level, from Rocky Flats Plant, use of reactor as neutron source for activation, 25:48802 (CONF-710617-40)
analysis of fluidized-bed, method for, 21:1430 (ORNL-3995, pp 36-70)
analysis of fuel-processing, for fission products by electrophoresis and counting, 21:8188 (CEA-R-3095)
analysis of liquid and solid, for plutonium, passive method for, 25:32175 (CONF-700541-, pp 281-315)
analysis of liquid and solid, for uranium-235, design and performance of gamma detection system for, 25:48788 (CONF-710617-17)
analysis of liquid effluents from nuclear fuel reprocessing plant for radioisotopes, 25:12950 (BRH/NERHL-70-2)
analysis of liquid, for nickel-63 by liquid scintillation counting, 24:46196
analysis of Lucas Heights, for zinc-65 by solvent extraction and γ spectrometry, 25:31829 (AAEC/TM-569)
analysis of plutonium dioxide-contaminated, germanium—lithium gamma spectroscopy method for, 24:424
analysis of plutonium-bearing hydrogenous, by gamma scanning, 24:39172(R) (LA-4457)
analysis of plutonium-containing, evaluation and standardization of methods for, 25:38(R) (BHO-69-1)
analysis of Purex Process, for uranium, on-line polarographic, 25:8 (KFK-1144)
analysis of Purex, for chromium and iron to measure concentrator corrosion rates, 23:13823 (HW-75732)
analysis of raffinate, from ZPR-III fuel reprocessing for gamma sources, 25:39432(R) (BHO-69-3)
analysis of reactor effluents, 23:2238
analysis of scrap, for fissionable material by delayed neutron kinetics, 23:24100 (LA-DC-9757)
analysis of solid, for plutonium, radiometric method for, 25:4293
analysis of solid, for plutonium-238 by gamma pulse height method, 23:13656
analysis of solid, for plutonium-240, performance of Los Alamos Mobile Nondestructive Assay Laboratory for, 25:32179 (CONF-700541-, pp 369-80)
analysis of solutions of, for iron by remote square wave polarography, 24:16424
analysis of uranium solutions of, for thorium-230, 23:2209
analysis of uranium solutions of, for thorium-230, β-counting corrections for radiochemical, 23:2208
analysis of Windscale neutralized liquid, for cesium-134 and cesium-137 by isotope dilution and γ spectrometry, 25:26177 (PG-Report-965)
analysis of, development of calorimeters and gamma spectrometers for, 25:15916(R) (GEAP-12114-3)
analysis of, development of instrumentation for, 25:34924(R) (WCAP-7562-3)
analysis of, development of instruments for, 25:39404(R) (BHO-68-5)
analysis of, for radioisotopes, method for, 21:12285(R) (ORNL-4039)
analysis of, for trace amounts of radioisotopes by least-squares resolution of gamma spectra, 21:2999
analysis of, nondestructive active and passive methods for, 25:55004(R) (WCAP-7562-4)
analysis of, specifications testing manual for, 21:10 (MCW-1507)
assay of, development of methods for passive gamma, 25:23765(R) (BHO-69-2)
behavior under deep sea hydrostatic pressures, 21:36173 (AERE-M-1254)
behavior, composition, distribution, and significance of, Battelle—Northwest facilities and programs for studying, 21:41186 (BNWL-453)
bibliography on disposal of, 25:15869 (ORNL-TM-3301)
binding by clay and peat bog, 22:33505
bituminization of, effects of surface-active agents on, 21:36098
book: Antipollution and Radioactive Wastes, in French, 25:13087
book: Basic Radiation Protection. Principles and Organization, 24:25470
book: Clarification and Deactivation of Waste Waters by Frothing Flotation, in Russian, 25:4141
book: Control of the Radioactivity in Waste Water and Exhaust Air, in German, 23:35011
book: Deactivation of Waste Waters from Laboratories and Experimental Nuclear Reactors, 21:14305
book: Health Physics—Process Control Reference Manual. Volume II, 23:38567 (AD-677370)
book: Legal Problems in the Disposal of Radioactive Wastes in the Sea. An International Legal and Comparative Law Investigation, 25:44576
book: Nuclear Hydrophysics (In Russian), 25:32096
book: Nuclear Material, 23:45496
book: Radioactive Wastes. Treatment—Storage—Disposal, in German, 22:23122
book: Radioactivity in Surface and Coastal Waters of the British Isles, 1967, 23:2433
book: Storage of Radioactive Waste, in German, 24:41414
book: Treatment and Disposal of Radioactive Wastes, 23:542(T) (AEC-tr-6881)
burial facilities, environmental survey for, in New York, 23:29473 (NP-17860)
burial of, thermal analysis of tanks for, 22:8189
burning of solid, status of pressurized aqueous combustion method for, 25:357 (ORNL-TM-3170)
calcination and solidification of Purex solutions, pilot plant studies on, 21:3229(R) (BNWL-306)
calcination and solidification of, effect of melt additives on, 21:22114(R) (BNWL-365)
calcination by FINGAL process, study of ruthenium dioxide volatilization and deposition in, 25:51571 (AERE-R-6418)
calcination of aqueous, 22:4231(R) (IN-1087)
calcination of aqueous, fluid-bed, 22:51064
calcination of fluoride-bearing zirconium, 23:13824(R) (IN-1201)
calcination of high-level, 25:2316 (ORNL-4572, pp 98-108)
calcination of high-level liquid, design of calciner for, 24:11760
calcination of high-level liquid, development of in-bed combustion equipment and method for fluidized-bed, (E), 23:47723 (IN-1278)
calcination of high-level liquid, fluidized-bed method for, 24:25103
calcination of high-level, fluidized-bed, 21:10573 (CONF-660208-, pp 235-46)
calcination of high-level, fluidized-bed, 22:152
calcination of solutions of, 23:17507(T) (AEC-tr-7028, pp 154-98)
calcination of solutions of, development of spray, 24:13562(R) (BNWL-1266)
calcination of zirconium, repression of fluoride volatility in, 23:13824(R) (IN-1201)
calcination of zirconium-containing, 22:4231(R) (IN-1087)
calcination of zirconium-containing, effects of heating on physical and chemical changes in calcine from, 25:48569 (IN-1486)
calcination of, at ICPP, 21:5991(R) (IDO-14680)
calcination of, effect of composition on spray, 21:10575 (CONF-660208-, pp 326-74)
calcination of, equipment and facility for, 22:21299
calcination of, heat transfer in fluidized beds for, 22:4231(R) (IN-1087)
calcination of, heat transfer studies in, 21:5991(R) (IDO-14680)
calcination of, in-bed combustion as heat source for fluidized-bed, 22:37853
calcination of, methods for modification of product from fluidized-bed, 24:263 (IN-1322)
calcination of, operating experience in, 24:9429(R) (IN-1314)
calcination of, operation of facility for, 23:13824(R) (IN-1201)
calcination of, particle growth and size distribution in fluidized-bed processes in, 21:5991(R) (IDO-14680)
calcination of, performance of Type 316 stainless steel loop for circulating potassium—sodium eutectic alloy in, 25:37944 (CONF-710310-1)
calcination of, properties of products from, 25:34690(R) (IN-1457)
calcination of, ruthenium tetroxide volatilization by, 22:15251 (IN-1013)
calcination of, use of in-bed combustion of fuel for heating fluidized-bed calciner for, 24:9429(R) (IN-1314)
calcination of, using in-bed combustion of hydrocarbon fuel for heating, 23:13824(R) (IN-1201)
canning of powdered, 24:7486 (ORNL-4414)
capsules for solid, containing cesium-137 and strontium-90, nondestructive methods for testing, 25:37556
categories of, standard proposed definition of, 22:14743
categorization of, standard for proposed definition of, 25:23697

cesium-137 separation from low-level liquid, by coprecipitation with ferrocyanides, 25:29183 (SGAE-SS-6/1969)
chemical states of rhodium in solutions of, 23:9501 (ARH-732)
classification by radioactive concentration, proposed scheme for, 22:53393
classification of fuel cycle phase, 23:38232
classification of industrial, standards for, 24:7614 (RT/PROT-(69)21)
classification of, proposed definitions of categories for, 22:51083
classification of, proposed IAEA categories for, 24:31644 (STI/DOC-10/101)
coating of high-level, with bituminous material, pilot plant studies of, 23:43505(T) (ORNL-tr-2183)
coating of low-, medium-, and high-level evaporation concentrates of, with bituminous materials, 23:17727(R) (CEA-R-3632)
combustion and concentration of, design of incinerator facility for, 23:21871
combustion and concentration of, design, fabrication, and testing of incinerator for, 22:21229 (AD-664118)
combustion and evaporation of liquid, design of equipment for, 23:50099(P)
combustion for disposal, design of incinerator for, 22:8291(P)
combustion of inflammable, design and operation of incinerator for, 24:31647
combustion of plutonium-bearing solid, 25:54715 (ORNL-4682, pp 95-113)
combustion of solid, design and operation of incinerator for, 23:26495
combustion of, cleaning system for gases from, 23:29130
combustion of, cleaning system for gases from, 23:29131
combustion of, decontamination of aerosols and gases produced from, 23:45494
combustion of, removal of dusts from gases formed by, 23:29129
combustion of, separation of radioactive particulates from combustion gases from, 23:16061 (CEA-CONF-1113)
compaction for shipping and storage, equipment and methods for, 25:54975 (WASH-1167)
compaction of low-level solid, criteria for hydraulic presses for, 25:29316(T) (LA-tr-71-12)
compaction of low-level solid, hydraulic press criteria for, 23:16007 (CEA-R-3619)
concentration and drying by vaporization, 25:213 (EUR-4047(Pt.2))
concentration and solidification of aqueous, using sodium borate, 24:27217(P)
concentration device for liquid, continuous, 25:57900(P)
concentration in aquatic organisms and river sediments, radioactive equilibrium time for, 21:16095
concentration of liquid, by evaporation, 21:17809(P)
concentration of liquid, by evaporation, 21:17810(P)
concentration of liquid, by forced air draft evaporation, 21:8400
concentration of liquid, by natural evaporation, equipment for, 21:10442(P)
concentration of low level liquid, procedures for high, 24:31037
concentration of synthetic Purex solution of, submerged combustion method for, 23:2393
concentration of synthetic, by evaporation in submerged combustion, 23:6215
concentration of Zirflex, 22:45146 (NP-17588)
concentration of, evaporation method for, 22:40347 (DP-1135)
concentration of, use of centrifugal separator for, 21:10590 (EUR-3175.e)
conference on disposal of, Frankfurt am Main, 1964, 23:38223
conference on ground disposal of, Vienna, May 29 to June 2, 1967, 22:16793 (STI/PUB-156)
conference on management and treatment of airborne, New York, Aug. 26 to 30, 1968, 23:29118 (STI/PUB-195)
conference on management of low- and intermediate-level, Aix-en-Provence, France, Sept. 7 to 11, 1970, 25:21287 (STI/PUB-264)
container design for resinous, 21:1548(P)
container for high-level solid, evaluation of inertia welding for sealing, 23:24401 (ARH-1058)
containers for liquid, cathodic method for decontamination of metallic, 25:6523
containers for storage of high-level, design and evaluation of, 23:11737 (BNWL-832)
containers for storage of, design and development of ultrasonic inspection system for, 25:42020 (BNWL-B-103)
contamination of environment by, from industry and medicine, 23:2829
content of environment of Delta Primate Research Center, 22:47544
control at Kyoto University research reactor, measures for, 23:12063 (KURRI-TR-32)
control of nuclear power plant, 25:28624
conversion of aqueous, to glass, 22:152
conversion of high-level, to phosphate glass, 22:8189
conversion to phosphate glass, 22:6381
cooling in mines by air ventilation, requirements for, 22:16821
corrosive effects of acidic, on stainless steel tanks, 21:45868
corrosive effects of aluminum and zirconium alloy processing, on stainless steel, 21:45862 (IN-1114)
corrosive effects of boiling solutions of, on stainless steel 304L and 310 and titanium, 25:10658(R) (BNWL-1533)
corrosive effects of chromium(IV) and iron(III) containing Purex-type, on Type 304 L stainless steel, 23:14296 (HW-72076)
corrosive effects of high-level liquid Purex Process, on Type 304L and Uranus S stainless steels, 24:8051 (BNWL-1237)
corrosive effects of phosphate glass and spray solidifier melts of, on aluminum oxide—chromium and chromium, 23:11596(R) (BNWL-923)
cutting of high-activity solid, equipment and method for underwater, 23:16008 (CEA-R-3629)
decontamination and reprocessing of, description of Romanian facilities for, 24:5851
decontamination and storage of medical facility, equipment and methods for, 24:416(T) (ORNL-tr-1080)
decontamination by chemical precipitation, evaporation, or ion exchange, 22:27887
decontamination methods for liquid, at Pelindaba Plant, South Africa, 21:28186 (PEL-143)
decontamination of evaporator condensate, by ion exchange, 25:34690(R) (IN-1457)
decontamination of Hanford Purex Plant using condensate recycle, 24:50492 (ARH-SA-68)
decontamination of high-level liquid, use of packed-type evaporating tower for, 21:22120
decontamination of liquid, by ion exchange, properties of powdery clays for, 24:46296 (BARC-457)
decontamination of liquid, efficiency of Kirdzahli concretes for ion exchange, 23:598
decontamination of liquid, from laundries by bacteria and ozonation, 25:6391 (CEA-N-1341, pp 95-109)
decontamination of liquid, from laundries by bacteria and ozonation, 25:26329(T) (ORNL-tr-2410, pp 1-13)
decontamination of liquid, from production of iron-55, coagulation method for, 24:14232
decontamination of liquid, performance of Indian clay minerals for, 23:6277 (BARC-349)
decontamination of liquid, testing of ion exchange column sand prefilters for, 23:40968 (DP-1189)
decontamination of low- and medium-level, use of zeolites for, 21:30658 (EUR-3452.f)
decontamination of low-activity, Saclay pilot plant for ion-exchange, 22:37829 (CEA-N-856, pp 57-70)
decontamination of low-level, 21:45202 (ORNL-4145, pp 104-29)
decontamination of low-level liquid, chemical flocculation-sedimentation-filtration equipment and method for, 23:45499
decontamination of low-level liquid, performance of anorganic sorbents for, 25:37562 (NP-18809, pp 4.1-6)
decontamination of low-level, by ion exchange on activated carbon, 22:47206(T) (ORNL-tr-1771)
decontamination of low-level, precipitation-scavenging foam process for, 22:40351 (ORNL-3803)
decontamination of medium- and low-level, by ozone, 23:40786(T) (AEC-tr-7076, pp 1-19)
decontamination of medium-level liquid, performance of phosphate—ferrocyanide vermiculite for, 24:2259 (AERE-R-6153)
decontamination of, activities in, 23:17516 (JAERI-5017, pp 83-8)
decontamination of, effects of bacteria on, 22:27851 (CEA-N-816, pp 66-79)
decontamination of, method for, 22:51057
decontamination of, performance of vacuum distillation plant for, 22:28057
decontamination of, use of hydrated titanium oxide in, 22:42811 (HMI-B-69)
decontamination of, using ion exchange materials and surface-active agents, equipment for, 22:27851 (CEA-N-816, pp 66-79)
decontamination of, using oxidizing agent and manganese salt, 25:41911(P)
decontamination prior to disposal, 22:51202 (SZS-9/68)
decontamination prior to disposal, description of equipment and method for, 22:51203 (SZS-9/68, pp 1-12)
deposition on fishnets, 21:41412
detection of gaseous, Chalk River filter installation for, 21:31925 (CONF-660904-Vol.1 and 2, pp 979-1019)
diffusion and movement of calcium—strontium carbonate, in soils, method for simulation of, 25:4265 (ORNL-TM-3130)
diffusion and movement of low-level liquid, in sea water, 22:16729
diffusion in atmosphere of gaseous, measurement using balloons, 21:36328
diffusion of bitumen-coated, effects of water and seawater on, 23:33365 (CEA-R-3743)
diffusion of cesium-137 in granular calcined, effects of concentration and gas flow on, 24:27317 (IN-1365)
diffusion of cesium-137 in solid, coefficients for, 24:5863
diffusion of gaseous reactor, calculation of atmospheric, 22:30719
diffusion of gaseous, in lithosphere, xenon-133 tracer measurements of, 23:43503 (IDO-12069)
diffusion of gaseous, to atmosphere from nuclear plants, model for calculation of ground-level gamma radiation dose rates from, 24:20900
diffusion of iodine-131 from liquid, stored in open pools, method for prediction of, 25:8450 (IN-1449)
diffusion of low-level, in coastal waters, mechanisms of, 25:39612(T) (UCRL-Trans-10538)
diffusion of ruthenium-106 in solid, coefficients for, 24:5863
diffusion rates of radioactivity from encapsulated, method of leach testing, 25:15868 (ORNL-TM-3232)
dilution of low-level liquid, by Clinch River, (E), 25:359
dilution rate of, released to Winnipeg River from Whiteshell Nuclear Research Establishment, 23:21921 (AECL-3256)
discharge from nuclear-powered naval vessels into harbors during 1970, monitoring of, 25:46836
discharge from USSR power reactors, standards for, 25:7980 (CONF-700810-41)
discharge in Clinch River during 1966, monitoring of, 21:45249 (ORNL-4146, pp 2-35)
discharge of airborne, control standards for, 21:41027
discharge of plutonium production reactor, in Columbia River, radiation dose to aquatic animals and plants from, 25:37795 (BNWL-SA-3712)
discharge to environment near Windscale Nuclear Facility, results of monitoring of, 25:16173
dispersion and movement in Atlantic Ocean, simulation of, 21:256(R) (ORO-3298-2)
dispersion of heated, in sea water, from nuclear power source installations in the sea, 21:1743(R) (NYO-3109-19)
dispersion of simulated high-level powdered, in glass matrix, 21:43217 (ORNL-TM-1897)
dispersions in airborne and aqueous, description of manganese-doped calcium sulfate thermoluminescent dosimeters detecting, 23:7756
disposal, 21:17555(R) (ORNL-3911)
disposal and control of nuclear fuel reprocessing, 25:51590
disposal and handling of power reactor gas and liquid, 21:38587
disposal and management of, engineering, economic, and safety evaluations for, 24:39175 (ORNL-4446, pp 17-22)
disposal and management of, research on, 21:23659
disposal and management of, review of USAEC's position on, 24:50538
disposal and processing methods for gaseous, liquid, and solid, 21:39166
disposal and solidification in salt mine, corrosion testing of heaters for, 23:12270 (ORNL-TM-2422)
disposal and storage at Hanford, methods for, 23:24412 (ARH-SA-30)
disposal and storage in West German salt deposits, geologic studies of, 22:16819
disposal and storage of bitumen- and cement-coated pellets of, effects of diffusion on, 23:40967 (CEA-R-3751)
disposal and storage of high-level, in mines, cooling and air ventilation requirements for, 22:16821
disposal and storage of intermediate-level liquid and solid, at KFA Juelich, equipment and method for, 25:32181 (JUL-710-DE)
disposal and storage of krypton-85 in porous underground media, 21:41190
disposal and storage of liquid, in East Germany, economics of processes for, 23:2412 (SZS-10/68)
disposal and storage of low- and high-level, in West German salt deposits, experimental method for, 22:16820
disposal and storage of low- and intermediate level, in West German salt deposits, 22:16817
disposal and storage of low- and intermediate-level solid, in Switzerland, 22:16810
disposal and storage of, freezing method for, 22:8334(P)
disposal and storage of, present practices and future needs in, 25:51755 (A/CONF.49/P-766)
disposal and storage of, siting considerations and factors for, 24:36538 (ORNL-4451)
disposal and treatment in Switzerland, evaluation of methods for, 24:46318
disposal and treatment of, resulting from decontamination of buildings and equipment following reactor accidents, 24:7903
disposal and treatment of, review on, 23:2389
disposal and underground storage of, conference on, 22:2326(T) (JPRS-42565)
disposal at Barnwell Nuclear Fuel Processing Plant, 24:33756 (DOCKET-50332-13)
disposal at Big Rock Point Power Reactor, management of, 22:10532 (ORNL-4070)
disposal at boiling water reactor plants, 23:13973
disposal at Brookhaven National Laboratory, effects of, on natural background radioactivity, 21:20163 (BNL-50001)
disposal at CEA in Belgium, methods for routine and emergency monitoring for environmental contamination from, 24:7842
disposal at Dresden-I Power Reactor, management of, 22:10532 (ORNL-4070)
disposal at Elk River Power Reactor, management of, 22:10532 (ORNL-4070)
disposal at Eurochemic plant, neutralization-self-solidification method for, 23:17535
disposal at Hanford N Production Reactor, methods for, 24:9619 (DUN-SA-125)
disposal at Hanford plant during 1969, radiation dose to off-site human population from controlled, 25:16129 (BNWL-1505)
disposal at Hanford Reservation, review on safety of, 24:20972
disposal at Hanford, land requirements for, 24:46455 (ARH-SA-65)
disposal at Harvard laboratories, methods for, 21:36611
disposal at Humboldt Bay Power Reactor, management of, 22:10532 (ORNL-4070)
disposal at Idaho Nuclear Corporation, containers for, 24:2681 (IN-1310, pp 42-61)
disposal at Indian Point-I Power Reactor, management of, 22:10532 (ORNL-4070)
disposal at Ispra, effect of meteorological conditions on, 21:22037 (EUR-3166.e)
disposal at Karlsruhe nuclear center, equipment and methods for, 24:41641(R) (KFK-1030)
disposal at Lohmen, German Democratic Republic, 22:40207
disposal at New South Wales University during 1968, 24:44518(R) (NP-18286)
disposal at NFS fuel reprocessing plant, 21:40963 (TID-23991(Vol.2))
disposal at NRTS, hydrology of, 22:2192 (IDO-22049)
disposal at nuclear facilities, manual for surveillance of, by public health agencies, 21:20176 (NP-16616)
disposal at Nuclear Fuel Services, radiation dose to public from, 25:52060
disposal at Richland Area, Wash, ground water contamination from, 25:23704 (BNWL-1539)
disposal at Savannah River Plant, effect on environmental radioactivity of, 21:43055(R) (DPST-67-30-2)

disposal at sea of, pressure testing of containers for, 21:14402
disposal at sea, AERE regulations on, 21:36173 (AERE-M-1254)
disposal at sea, international law regarding, 25:55252 (NP-18752)
disposal at sea, permeability of concrete container for, 21:26134
disposal at sea, review of European Nuclear Energy Agency joint programs for, 23:31146
disposal at West Valley Processing Plant, 24:38990 (DOCKET-50201-40)
disposal at Windscale, population dose from, 21:22463
disposal at Yankee Power Reactor, management of, 22:10532 (ORNL-4070)
disposal by burial, dose to personnel from, 21:24434
disposal by burial, environmental contamination from, 21:24434
disposal by fixation in concrete, evaluation of cements for, 22:25515
disposal by fixation in phosphate glass, 22:15141 (BNL-50057, pp 79-100)
disposal by fixation of radioactive residues, 21:28183(R) (BNWL-434)
disposal by fixation of radioactive residues, 21:28182 (BNWL-410)
disposal by fixation of radioactive residues, 21:43216(R) (BNWL-507)
disposal by ground burial, safety of, 23:40970(T) (JPRS-48244)
disposal by hydraulic fracturing, 22:6436 (ORNL-4168, pp 1-60)
disposal by hydraulic fracturing, 23:13828(R) (ORNL-TM-2294)
disposal by hydraulic fracturing at ORNL, facility design and safety analysis for, 25:54971 (ORNL-4665)
disposal by hydraulic fracturing of shales, 22:8189
disposal by hydraulic fracturing, relations of rock integrity to, 22:2323(R) (ORNL-TM-1887)
disposal by hydraulic fracturing, site evaluation for, 23:9681 (ORNL-4316, pp 1-69)
disposal by incineration, determination of radioactivity in ash from, 24:38764
disposal by injection of liquid—waste suspensions into soils, 23:35448(P)
disposal by land burial at NRTS, public health aspects and recommendations for solid, 24:39497 (NP-18220)
disposal by nuclear industries, 21:36612
disposal by production of coated-particle solids from liquid slurries, 21:45325(P)
disposal by sealing in concrete or bitumen, 22:27887
disposal by solidification using phosphate glass process, 24:44184 (BNL-50205, pp 134-67)
disposal by solidification, phosphate glass process for, 21:35701(R) (BNL-50023)
disposal by Trisaia reprocessing plant in Italy, methods for, 24:39469 (RT/PROT-(69)43)
disposal by uranium mills, 23:17976 (CONF-670503-, pp 307-18)
disposal by uranium mills, effects of, on stream biota, 23:16315
disposal drums for, proportional detectors for determining plutonium-238 as plutonium oxide content in 55-gal, 21:45367 (MLM-1373)
disposal economics and safety for, from German nuclear power plants, 23:15615
disposal facilities at Hanford, effect of Ben Franklin Dam on location of, 21:32347 (BNWL-412)
disposal following abandonment of nuclear reactor site, 21:43441
disposal following decontamination activities, 21:43422
disposal following production of radiopharmaceuticals, 24:50929
disposal from ARMOR hot-cell assembly, 21:36324 (CEA-R-3171)
disposal from atomic energy installations, methods for safe, 22:47310
disposal from commercial facilities using unsealed sources, French regulations for, 24:31598
disposal from fuel element reprocessing using dissolution in alkali metal compounds, 22:23125(P)
disposal from hospitals, contamination of Hamburg, Germany sewage by, 23:24305
disposal from JPDR operation, control measures for, 22:4420
disposal from KAPL, effects of, on uptake of isotopes by aquatic organisms, 22:21497 (HW-43112)
disposal from nuclear facility in Canada, environmental contamination from, 25:16156
disposal from nuclear installations, environmental contamination from, 24:25251 (SZS-16/69)
disposal from nuclear power plants in United Kingdom, program for control of radioactivity levels from, 24:48527 (CONF-700810-10)
disposal from nuclear power plants, regulations for control of, 23:26498
disposal from pressurized-water reactor power plant in Japan, 25:54980
disposal from stacks, equations for estimation of diffusion of, 21:43214 (AECL-2760)
disposal from U. S. Naval nuclear-powered ships and support facilities during 1969, environmental monitoring to determine adequacy of limits and procedures for, 25:13444
disposal from UKAEA sites during 1967, monitoring of radioactivity from, 22:48943 (AHSB(RP)R-86)
disposal ground for, factors affecting siting of Mexican, 22:16812
disposal in Asse II salt mine, feasibility studies of, 23:17724 (BMwF-FBK-68-41)
disposal in Asse salt mine, equipment and methods for, 25:51616(R) (KFK-1212)
disposal in Atlantic Ocean, 22:25629(R) (KFK-663)
disposal in Atlantic Ocean of, description of ENEA supervised, 23:15601 (NP-17770)
disposal in atmosphere and ocean, Japanese research studies on, 25:51607 (A/CONF.49/P-250)
disposal in Australia, 21:28453
disposal in Baltic Bay, effects on man from, 21:16092
disposal in barrels, 23:15949
disposal in basaltic rocks at Hanford, evaluation of hydrologic factors related to, 25:48606 (TID-25764)
disposal in Belgium, 23:348 (NP-17579, pp VI.7-8)
disposal in caverns in bedrock on Savannah River Plant site, 24:41638 (DPST-69-444)
disposal in cements and grouts, high pressure injection method for underground, 22:16824
disposal in circumpolar regions, health hazards from, 23:29478
disposal in clay soils, ion diffusion studies in, 22:16801
disposal in Clinch River, long term effects of, 25:16180
disposal in colemanites, method for, 21:3233(P)
disposal in Columbia River, contamination of fish by, 21:22461
disposal in Columbia River, effects on humans and aquatic life of, 21:16090
disposal in Columbia River, research on fate of, 24:34214
disposal in containers, methods for deep sea, 24:44228(R) (KFK-1138)
disposal in Czechoslovakia, development of central underground area for, 22:2334(T) (JPRS-42565, pp 97-109)
disposal in deep permeable geologic formations, feasibility studies of, 22:16823
disposal in deep well at West Valley Processing Plant, 24:11659 (DOCKET-50201-28)
disposal in East Germany, problems of, 24:19189
disposal in effluents from nuclear power plants, evaluation of permissible levels of, 24:34229
disposal in estuarine systems, effect on radioisotope transport by suspended silts from, 22:4272 (TID-24140)
disposal in French salt deposits, solution method for cavity formation for, 22:16818
disposal in fuel reprocessing plants, 23:28968
disposal in geologic formations in Czechoslovakia, 22:16826
disposal in geologic media, physicochemical conditions for, 25:41925(T) (CEA-tr-R-1979)
disposal in German salt mines, development of processes for final, 22:23248
disposal in German salt mines, development of processes for final, 24:11756(T) (ORNL-tr-1841)
disposal in Germany, in underground geologic formations, 21:32350(T) (ORNL-tr-1701)
disposal in ground at Mesita del Buey, N. M., geologic and hydrologic studies for, 25:34846 (LA-4660)
disposal in Hanford area basalt flows, deep well logging feasibility study for, 23:40855 (ARH-SA-47)
disposal in hospitals, 21:30823
disposal in hydraulically fractured rocks, site evaluation for, 23:31512
disposal in hydrobiological systems, standards for, 24:2648(T) (ORNL-tr-1677)
disposal in Japan, safety considerations in, 25:21143
disposal in Korean clays, 25:21282 (IAEA-R-566-F)
disposal in legal aspects of, 24:7917
disposal in Lyons, Kansas repository, supplement to environmental statement on, 25:48605 (TID-25729(Suppl.))
disposal in marine environment, radioisotope transport as tracer for studies of metabolism in animals and plants, 24:31897
disposal in marine environments, model for calculation of safe rates of, 21:32353
disposal in Mol sand, ground water contamination from, 22:16804
disposal in natural salt formations, 23:13828(R) (ORNL-TM-2294)
disposal in natural salt formations, 22:6436 (ORNL-4168, pp 1-60)
disposal in natural salt formations, 22:2323(R) (ORNL-TM-1887)
disposal in natural salt formations, description and economics of Project Salt Vault for, 23:9681 (ORNL-4316, pp 1-69)
disposal in natural salt formations, effects of salt properties on, 23:43407
disposal in natural salt formations, feasibility studies of, 24:39174 (ORNL-4446, pp 12-16)
disposal in nuclear energy industry, summaries of AEC sponsored research on, 24:46593 (TID-4065)
disposal in ocean near Japan, hazards from, 23:43506
disposal in Pacific Ocean, problems of, 21:41048
disposal in Rattlesnake Hills, Washington, well logging for, 22:35920 (BNWL-776)
disposal in rivers, 22:35924 (ORO-490-15)
disposal in rock formations, hydraulic fracturing method for, 21:12619(P)
disposal in salt beds, research progress on, 25:54715 (ORNL-4682, pp 95-113)
disposal in salt deposits, evaluation of rock salt structural stability for, 23:21928
disposal in salt domes in Federal Republic of Germany, geologic studies of, 21:22113 (BMwF-FBK-65-06)
disposal in salt formation in West Germany, packaging for, 22:16816
disposal in salt formations in East Germany, feasibility study, 22:36017 (SZS-5/68)
disposal in salt mine repository, research progress on, 25:54758 (ORNL-4717, pp 109-15)
disposal in salt mines, 25:2316 (ORNL-4572, pp 98-108)
disposal in salt mines from Nuclear Fuel Services plant, 23:6197 (GAMD-7657)
disposal in salt mines in Federal Republic of Germany, feasibility studies of final, 25:21373
disposal in salt mines of high-level solid, design and operation of equipment for, 23:17735
disposal in salt mines of high-level solidified, feasibility and safety evaluation for, 24:14233
disposal in salt mines, conference on, 21:39170
disposal in salt mines, design of injection system for, 22:25629(R) (KFK-663)
disposal in salt vaults, 22:14426 (ORNL-4196, pp 12-15)
disposal in sea from Windscale Works, chemistry of ruthenium in, 22:12456 (PG-Report-819)
disposal in sea, contamination of algae following, 25:18939
disposal in sea, effects of, on public health, 24:21095 (CEA-CONF-1465)
disposal in sea, effects of, on public health, 24:21093 (CEA-CONF-1341)
disposal in sea, hazards from, 23:50466
disposal in sea, in relation to contamination of marine organisms, 23:26783
disposal in sea, monitoring and safety criteria for, in UK, 24:9824 (CONF-690303-, pp 145-55)
disposal in sea, monitoring of, in Great Britain during 1968, 24:21099 (FRL-5)
disposal in seas around Japan, review of problems of, 25:4316
disposal in seas, hazards to man from, 23:29461(T) (AEC-tr-7022)
disposal in seas, methods for safe management of, 25:26683
disposal in seawater, contamination of fishermen's hands and fishing nets from, 25:46806 (JAERI-13710)
disposal in shale formations, seismic mapping of hydraulic fractures for use in, 25:48604 (ORNL-TM-3502)
disposal in Socialist Republics, research on treatment methods for, 22:21301
disposal in soil, reactions in, 23:13812 (BNWL-860)
disposal in surface and subsurface reservoirs, method for solidification of slurries for, 21:3235(P)
disposal in surface ground formations, site selection criteria for, 22:18923
disposal in surface waters, 21:15997
disposal in surface waters, derivation of formula for calculation of maximum, 25:34717 (EUR-4636)
disposal in Sweden, effects of dilution on reduction of hazards from, 24:34217
disposal in terrestial environment, effects on radioisotope and trace element content in soils, (E), 25:18521 (ORNL-4584, pp 1-10)
disposal in the sea, molecular diffusion of radioisotopes from, 22:10408
disposal in thick underground salt formations, thermal analysis of, 25:42038 (ORNL-TM-3426)
disposal in UK, evaluation of environmental contamination from, 25:51750 (A/CONF.49/P-512)
disposal in underground nuclear cavities, feasibility study of, 22:27942 (PNE-3008)
disposal in underground nuclear cavities, review of USAEC Plowshare Program for, 22:40286
disposal in underground nuclear chimneys, computer analysis of fluid inflow or outflow for, 24:29485 (UCRL-50828)
disposal in underground nuclear explosion chimneys, review on status of, 25:44480 (UCRL-51074)
disposal in United Kingdom in relation to contamination of environment, 24:29720 (AHSB(RP)R-97)
disposal in United Kingdom, methods for, 22:45545
disposal in United States, status of, 23:40979
disposal in water resources in Great Britain, legal aspects regarding control of, 24:25432
disposal in White Oak Lake, effects of, on ecological succession of vegetation on dry lake bed, 22:21462
disposal in Yugoslavia, legal aspects of, 24:7915
disposal into aquatic environment in United Kingdom, monitoring programs for, in relation to hazard assessment, 24:7841
disposal into aquatic environment of UK, 1969, 25:26397 (FRL-7)
disposal into aquatic environment, development of adequate monitoring program for, 24:7848
disposal into atmosphere and surface waters near Casaccia, Italy, radiation hazards to man from, 25:34849 (RT/PROT-(70)36)
disposal into atmosphere at Ispra, calculation of radiation dose to human population from, 25:39608
disposal into Columbia River from Hanford reactors, 21:16090
disposal into Columbia River from Hanford reactors, 21:15998
disposal into deep geologic formations, equipment and methods for, 23:33368
disposal into estuaries, lakes, and rivers, methods for controlling contaminating effects of, 25:37564 (STI/PUB-283)
disposal into international rivers from nuclear power plants, 23:12106
disposal into Molse Nethe River, estimation of tritium content of, 25:34719 (NP-18737)
disposal into ocean, IAEA regulations on, 22:48969
disposal into oceans, sociopsychological factors for limitation of, 25:41948 (CEA-CONF-1733)
disposal into Rhine River, radioisotope sorption by sediment sands from, 25:2350
disposal into Rhone River from French Plutonium Production Center, 21:16091
disposal into rivers of tritium-containing liquid, from German nuclear power plants, hazards to population from, 24:27312 (CONF-690540-, pp 43-56)
disposal into rivers, computer model for studying environmental effects of, 24:36545
disposal into sanitary sewage systems, maximum permissible concentrations for nine radioisotopes used for scanning, 23:50727
disposal into sea at The Hague Center, France, surveillance of, 23:545 (CEA-R-3459)
disposal into sea, contamination problems in, 24:31663
disposal into sea, equipment and method for in-situ monitoring of seabed gamma activity from, 25:57586
disposal into sea, IAEA panel recommendations on, 25:57708

disposal into sea, Japanese research on contamination of marine environment from, 25:51651 (A/CONF.49/P-850)
disposal into seas, oceans, and surface waters, conference on, 21:16086 (STI/PUB-126)
disposal into streams, 21:267
disposal into surface and seawaters of, maximum permissible levels for, 23:9577 (CEA-R-3587)
disposal into surface waters, hazards to man from, 21:24187
disposal into waters of British Isles, effects on environment, 24:34216
disposal limits for nuclear power plants, predicted, 25:39205 (A/CONF.49/P-33)
disposal methods and treatment of, 25:26008
disposal methods development, 21:23710 (BNL-994, pp 45-69)
disposal methods for abrasive particulates, 21:24401 (BNL-10076)
disposal methods for nuclear power plants, 25:28623
disposal methods for, relation to public health, 25:21679
disposal methods for, review on, 23:38226
disposal methods in veterinary research, 21:24631
disposal of aerosols and gases into ground, 21:14410
disposal of airborne liquid and solid, in hospitals, methods for, 21:1761
disposal of alpha and high-level, environmental effects of Project Salt Vault for, 25:51771 (TID-25729)
disposal of alpha-contaminated solid, from commercial reactor fuel fabrication and reprocessing plants, methods for, 25:13188 (BNWL-B-34)
disposal of aqueous high-level, by Pot Calcination process, 23:356 (ORNL-4272, pp 72-91)
disposal of by hospitals, in sewage, public health aspects of, 25:13454
disposal of calcined, in salt mines, 22:8189
disposal of combustible and liquid, at nuclear reactor sites, 21:43438
disposal of concrete-solidified, burial conditions for, 22:2329(T) (JPRS-42565, pp 23-35)
disposal of EBR-II high-level, equipment for, 22:4408
disposal of fuel reprocessing plant, 22:40171 (KR-126, pp 245-66)
disposal of fuel reprocessing plant, using underground nuclear chimneys, 25:57604 (UCRL-73130)
disposal of fusion process, problems and precautions in,, 22:49059
disposal of Garigliano nuclear power plant, 21:38470(R) (TID-23922)
disposal of gaseous and liquid, by nuclear power plants, public health hazards from, 24:44514
disposal of gaseous and liquid, from Hanford nuclear facilities, contamination of environs by, 23:24626
disposal of gaseous and liquid, from nuclear plants, effects of, on environment, 24:29727
disposal of gaseous and liquid, in underground nuclear explosion-produced cavities, 25:4279
disposal of gaseous krypton-85-containing, methods for, 23:40972
disposal of gaseous, air cleaning system for stack, 23:29133
disposal of gaseous, analysis of underground gas-injection, 23:11251(R) (BNWL-433)
disposal of gaseous, analysis of underground gas-injection methods for, 23:9182(R) (BNWL-754)
disposal of gaseous, at Bhabha Atomic Research Center, operation of equipment for, 23:29134
disposal of gaseous, at La Hague Center, equipment and methods for, 23:29136
disposal of gaseous, design of equipment for, 22:6553(P)
disposal of gaseous, evaluation of injection method for underground, (E), 23:47722 (IDO-22051)
disposal of gaseous, feasibility of underground, 22:2192 (IDO-22049)
disposal of gaseous, feasibility studies of underground, 23:11738 (BNWL-945)
disposal of gaseous, from nuclear power plants, review of US experience in, 23:29140
disposal of gaseous, from nuclear power plants, review of UK experience in, 23:29139
disposal of gaseous, from reactors, design of equipment for monitoring ground-level argon-41 from, 22:18947 (BNL-12154)
disposal of gaseous, hazards from stack, 23:43508
disposal of gaseous, in foam, 21:39171(P)
disposal of gaseous, liquid, and solid, at Hanford, methods for safe, 24:414 (ARH-SA-52)
disposal of gaseous, liquid, and solid, at Japanese Laboratory for Radiation Medicine, 23:16067 (KURRI-TR-9, pp 11-24)
disposal of gaseous, liquid, and solid, from ORNL radioisotopes processing facility, methods for, 25:6520 (ORNL-TM-3225)
disposal of gaseous, liquid, and solid, Japanese research on, 23:16064 (KURRI-TR-9)
disposal of gaseous, liquid, and solid, review of methods for underground, 25:4315
disposal of gaseous, mathematical models for underground, 22:45177 (BNWL-SA-1152)
disposal of gaseous, to atmosphere, calculation of chimney height for safe, 22:12563(T) (JPRS-43977)
disposal of gases in underground reservoirs, 21:32352
disposal of Halden Boiling Reactor, detailed analysis of, 22:35463 (HPR-95)
disposal of Hanford area plant, ground water contamination from, 23:13854 (BNWL-984)
disposal of Hanford area plant, groundwater contamination from, 23:33261 (BNWL-1047)
disposal of Hanford liquid low-level, impact on ground water quality, 25:48601 (BNWL-SA-3744)
disposal of Hanford plant liquid, ground water contamination from, 24:7609 (BNWL-1233)
disposal of high and low level liquid and solid, from UKAEA sites, 1966, 22:279 (AHSB(RP)R-79)
disposal of high level, in salt mines, effects on properties of rock salt, (E), 22:30812
disposal of high- and low-level solidified, in Lyons, Kans. salt mine, feasibility study of facility for, 25:18623 (ORNL-4584, pp 16-36)
disposal of high- and low-level, in Lyons, Kansas salt mine, safeguards system for, 25:48778 (CONF-710617-2)
disposal of high-level aqueous, by continuous fixation in glassy solids, 21:8566 (ORNL-4017)
disposal of high-level liquid and solid, design and cost estimate for Lyons, Kansas repository for, 25:4277
disposal of high-level liquid, from fuel reprocessing by in-situ incorporation in molten silicate rock surrounding deep nuclear chimney, 25:44570 (UCRL-51044)
disposal of high-level powders, development of equipment and method for, 21:43217 (ORNL-TM-1897)
disposal of high-level power reactor, feasibility of using salt deposits for, 24:14236
disposal of high-level Purex, effects of component concentration on phosphate solids for, 22:23244 (BNWL-544)
disposal of high-level slurries of, method for underground solidification as cement, 24:36539(P)
disposal of high-level solid, by burial, 21:4590 (ANL-7125, pp 21-60)
disposal of high-level solid, economic evaluation of salt mines for, 23:17731 (ORNL-3358(Rev.))
disposal of high-level solid, feasibility of using salt deposits for, 25:4264 (NP-18527)
disposal of high-level solid, from EBR-II Fuel Cycle Facility, 21:22118
disposal of high-level solid, in Lyons, Kansas salt deposit, geological data for, 25:32187 (ORNL-4555, pp 49-58)
disposal of high-level solid, in Lyons, Kansas salt deposit, preparation of mine for, 25:32188 (ORNL-4555, pp 59-66)
disposal of high-level solid, in salt deposits, demonstration results of, 25:51778
disposal of high-level solid, in salt deposits, design and fabrication of special Project Salt Vault equipment for testing, 25:32189 (ORNL-4555, pp 67-91)
disposal of high-level solid, in salt deposits, installation of Project Salt Vault equipment for, 25:32190 (ORNL-4555, pp 92-8)
disposal of high-level solid, in salt deposits, Project Salt Vault for evaluating feasibility of, 25:32182 (ORNL-4555)
disposal of high-level solid, in salt deposits, preliminary Project Salt Vault studies for, 25:32186 (ORNL-4555, pp 24-48)
disposal of high-level solid, in salt deposits, review of U.S. program for, 25:37560 (A/CONF.49/P-839)
disposal of high-level solid, in salt mines, development of equipment and methods for, 23:17736
disposal of high-level solid, in salt mines, effects on deformation of surrounding salt structures, (E/T), 25:32195 (ORNL-4555, pp 291-316)
disposal of high-level solid, in salt mines, operational phase of Project Salt Vault for, 25:32192 (ORNL-4555, pp 124-60)
disposal of high-level solid, in salt mines, Project Salt Vault pillar model studies for, 25:32194 (ORNL-4555, pp 257-90)
disposal of high-level solid, in salt mines, results of Project Salt Vault experiments on, 25:32193 (ORNL-4555, pp 161-256)
disposal of high-level solid, in salt mines, safety analysis of Project Salt Vault equipment and methods for, 25:32191 (ORNL-4555, pp 99-123)
disposal of high-level solid, in salt mines, summary and conclusions of Project Salt Vault studies of, 25:32196 (ORNL-4555, pp 317-56)
disposal of high-level solid, incorporated in glass, 22:16814
disposal of high-level solid, technical feasibility of bedded salt formations for, 25:34848 (ORNL-4680)
disposal of high-level solidified, in inactive salt mines, 21:28184 (ORNL-P-3053)
disposal of high-level solidified, in salt formations, 21:3230 (ORNL-P-2537)
disposal of high-level solidified, in salt mines, requirements for recoverable containers for, 25:26454
disposal of high-level solidified, in salt mines, (E), 24:2431
disposal of high-level, after fixation in phosphate glass, 23:43380 (BNL-50130)
disposal of high-level, at Rez Nuclear Research Institute, 22:28057
disposal of high-level, economic aspects of salt mine, 24:44227 (CONF-700810-44)
disposal of high-level, encapsulation method for, 23:38225
disposal of high-level, evaluation of phosphate-glass process for, 21:32243
disposal of high-level, from fuel reprocessing in US, methods for, 25:6527
disposal of high-level, in German salt deposits, temperature rises due to, 21:41185 (BMwF-FBK-67-62)
disposal of high-level, in glassy matrix, 22:2323(R) (ORNL-TM-1887)
disposal of high-level, in molten basalt, 21:16094
disposal of high-level, in salt deposits, deformation testing in openings mined for, 24:36541
disposal of high-level, in salt deposits, demonstration experiment for obtaining salt flow data for, 25:32185 (ORNL-4555, pp 13-23)
disposal of high-level, in salt deposits, feasibility study of, 25:32184 (ORNL-4555, pp 3-12)
disposal of high-level, in salt formations, 22:21299
disposal of high-level, in salt mines, deformation of rock salt due to heat generation from, (E), 22:16792 (ORNL-TM-2102)
disposal of high-level, in salt mines, rock salt deformation studies for, 23:7723
disposal of high-level, in US salt deposits, history of programs for, 25:32183 (ORNL-4555, pp 1-2)
disposal of industrial, methods for, 23:50098
disposal of industrial, review on developments during 1967 in, 24:39016
disposal of intermediate level, in asphalt, 22:2323(R) (ORNL-TM-1887)
disposal of intermediate-level liquid and gaseous, at ORNL, 21:34428 (ORNL-TM-1832)
disposal of intermediate-level liquid, by hydrofracturing, development of cement mixes for, 21:41191
disposal of intermediate-level liquid, fixation in asphalt for, 22:10531 (ORNL-4059)
disposal of intermediate-level, deep-well injection method for, 22:21299
disposal of intermediate-level, hydrofracturing method for, 22:21299
disposal of intermediate-level, in asphalt, 22:8189
disposal of intermediate-level, in permeable shales, 21:3230 (ORNL-P-2537)
disposal of intermediate-level, in seepage pits at ORNL, effect on contamination of surface streams from, 21:39167
disposal of intermediate-level, Japanese methods for solidification for, 25:18634
disposal of krypton-85 from nuclear fuel reprocessing plants, evaluation of underground, 21:36107
disposal of krypton-85 in porous media, feasibility study of, 21:36325 (NYO-841-7)
disposal of krypton-85, underground, 22:2335
disposal of krypton-85-containing gaseous, feasibility of underground, 22:2225(R) (NYO-841-11)
disposal of leached hulls by burial at West Valley Processing Plant site, 23:43399 (DOCKET-50201-16)
disposal of liquid and gaseous, in deep wells in US, 22:16822
disposal of liquid and solid high- and low-level, at Japanese Atomic Energy Research Institute, 23:16066 (KURRI-TR-9, pp 6-10)
disposal of liquid and solid high-level, in salt mines, economic evaluation for, 22:28038 (ORNL-3358)
disposal of liquid and solid hospital, ICRP recommendations on, 25:42476
disposal of liquid and solid low- and intermediate-level, in western Europe, review of methods for, 22:21302
disposal of liquid and solid, 1967 data for NRTS, 23:591 (IDO-12040(Suppl.3))
disposal of liquid and solid, AEC licensing regulations for, 21:10571 (CONF-660208-, pp 89-93)
disposal of liquid and solid, at Kyoto University Reactor, facility for, 23:45500
disposal of liquid and solid, at Maxey Flats, Kentucky, description of methods for, 23:31510
disposal of liquid and solid, at NRTS, 1965, 21:6167 (IDO-12040(Suppl.1))
disposal of liquid and solid, at NRTS, 1968, 24:22927 (IDO-12040(Suppl.4))
disposal of liquid and solid, at Nuclear Research Center, Federal Republic of Germany, 23:43504(R) (KFK-888)
disposal of liquid and solid, experiments and practices at Chalk River for, (E), 21:39162 (AECL-2710)
disposal of liquid and solid, to atmosphere and ground at NRTS, 1966, 22:10530 (IDO-12040(Suppl.2))
disposal of liquid metal fast breeder reactor fuel recycle complex, 25:54754
disposal of liquid, aquatic ecosystem recovery patterns following, 25:52013
disposal of liquid, by deep underground hydraulic fracturing, (E), 25:18622 (ORNL-4584, pp 11-15)
disposal of liquid, by injection into hydraulically fractured shale, method for permanent, 25:39696
disposal of liquid, design of tank for, 21:10568 (CONF-660208-, pp 74-81)
disposal of liquid, from Hanford N Reactor incident, effects of hydrological factors on operation of Hanford area Emergency Waste Disposal crib for, (T), 25:13186 (BNWL-1503)
disposal of liquid, from JAPC Tokai Power Station, instrumentation and operation of facilities for, 22:16794
disposal of liquid, from pot, spray, and phosphate glass solidification processes, 25:41905
disposal of liquid, hydraulic fracturing method for, 21:28185 (ORNL-P-3054)
disposal of liquid, hydraulic fracturing method for underground, 25:51626
disposal of liquid, in boreholes, physical and chemical criteria for, 25:21368
disposal of liquid, in clay-type minerals, 24:20864
disposal of liquid, in deep geological formations, 22:21300
disposal of liquid, in France, 21:10569 (CONF-660208-, pp 82-4)
disposal of liquid, in harbors from nuclear-powered ships during 1963 to 1967, 23:31744
disposal of liquid, in surface waters at Ispra, Italy, control of, 23:38221
disposal of liquid, in upper soils, feasibility studies of, 22:2328(T) (JPRS-42565, pp 12-22)
disposal of liquid, in West Germany, methods for final, 24:41650
disposal of liquid, into aquatic environment, hazards to man from, 25:52013
disposal of liquid, into British coastal waters from fuel reprocessing and nuclear power plants, distribution of radioisotopes from, (E), 25:32095
disposal of liquid, into deep geologic formations, economics of, 23:9679(T) (JPRS-46535)
disposal of liquid, into deep geologic formations, USSR research on, 25:51749 (A/CONF.49/P-426)
disposal of liquid, into deep geologic formations, economics of, 22:45267
disposal of liquid, into Irish Sea, effect on marine life and water from, 21:15995
disposal of liquid, into nuclear rubble chimneys, FLIP computer program for flow calculations in, 23:4759 (UCRL-50506)

disposal of liquid, into sea at Bradwell Station and Windscale, England, hazards to man, 24:36750
disposal of liquid, into sea, contamination of marine species and seawater by, (E), 25:13189 (CEA-CONF-1712)
disposal of liquid, into UK coastal waters, methods for assessment of risks from, 25:44577
disposal of liquid, method using sorption in peat and combustion, 23:35443(P)
disposal of liquid, parameters of marine site for, 21:16093
disposal of liquid, physicochemical conditions for underground, 22:33625
disposal of liquid, pilot plant operation using deep formations for, 22:2333(T) (JPRS-42565, pp 82-96)
disposal of liquid, review of factors affecting underground, 23:592 (LA-DC-10004)
disposal of liquid, storage tanks for, 21:6166 (IA-1082, pp 311-18)
disposal of liquid, to Danube River at Boris Kidric Institute, 25:21355
disposal of liquid, to wells in water-bearing strata in USSR, 25:21370
disposal of liquid, use of deep formations for underground, 22:2332(T) (JPRS-42565, pp 67-81)
disposal of loaded zeolites, 22:37834 (EUR-3452(Vol.2))
disposal of long-lived, low- and high-level liquid and solid, to ground at Savannah River Plant, 22:16798
disposal of long-lived, nuclear transformation system for, 22:51199 (BNL-11915)
disposal of low activity solid, procedures at nuclear power plants for, 25:10131
disposal of low- and high-level solid, to ground at Ispra, 22:16799
disposal of low- and high-level, in West German salt deposits, 22:16816
disposal of low- and intermediate-level liquid and solid, in sandy soils at Chalk River, 22:16797
disposal of low- and intermediate-level liquid and solid, into ground at Hanford, economics of, 21:24184 (ISO-SA-31)
disposal of low- and intermediate-level liquid and solid, by discharge to environment in Italy, 25:21349
disposal of low- and intermediate-level liquid, study of Hanford waste cribs for, 21:17806 (HW-63121)
disposal of low- and intermediate-level solid, in mines in southern Spain, 22:16796
disposal of low- and intermediate-level solid, to the sea in the Netherlands, 25:21348
disposal of low- and intermediate-level, Battelle—Northwest research programs on, 21:41186 (BNWL-453)
disposal of low- and intermediate-level, by incorporation in bitumens in USSR, 25:21114
disposal of low- and intermediate-level, in Chile, future developments for, 25:21116
disposal of low- and intermediate-level, in Germany by discharge to surface waters or underground storage after solidification, 25:21347
disposal of low- and intermediate-level, processing methods for, 22:47201 (BNWL-723)
disposal of low- and intermediate-level, to surface water and by burial in Norway, 25:21115
disposal of low- and medium-level, development of Trombay Glass Process for, 23:45490 (BARC-400)
disposal of low- and medium-level, review of methods for, 25:54985
disposal of low-, intermediate-, and high-level, at Isotopes Alpha Handling Facility, equipment and methods for, 24:19187 (ORNL-TM-2845)
disposal of low-activity liquid, at Trisaia Reprocessing Plant, ecological survey to determine methods for, 25:29479
disposal of low-activity liquid, in surface waters, 21:16088
disposal of low-level into Columbia River, radiation dose to man from, 21:16308
disposal of low-level liquid and dry solid, at Savannah River Plant, geologic aspects of underground, 22:28036 (DP-MS-67-108)
disposal of low-level liquid and solid, at NRTS, contamination of ground waters from underground, 25:260 (IDO-12073, pp 43-5)
disposal of low-level liquid and solid, in clay soils near Moscow, feasibility study of, 22:2327(T) (JPRS-42565, pp 1-11)
disposal of low-level liquid to ground, ground water contamination from, 22:16805
disposal of low-level liquid, at BNL, 22:40258 (BNL-50093)
disposal of low-level liquid, at NRTS, Idaho, hydrological studies on, 21:19758 (IDO-22048)
disposal of low-level liquid, in British coastal and surface waters, 23:2433
disposal of low-level liquid, in Japanese coastal waters, 21:16031
disposal of low-level liquid, in permeable formations, 21:3230 (ORNL-P-2537)
disposal of low-level liquid, into North Sea, hydrological research on, 21:16089
disposal of low-level liquid, into streams, measurement of atmospheric diffusion of tritiated moisture from, 24:5749
disposal of low-level liquid, into surface waters near West Valley Processing Plant, environmental contamination from, 25:259 (DOCKET-50201-49)
disposal of low-level liquid, into surface waters near West Valley Processing Plant, environmental contamination from, 25:258 (DOCKET-50201-48)
disposal of low-level liquid, to ground at Pakinstan Institute of Nuclear Science and Technology, 23:21927 (PINSTECH/HP-7)
disposal of low-level ORNL, into Clinch River, 5 year study on, 21:22117 (ORNL-4035)
disposal of low-level solid, to ground at Windscale and Calder Works, 22:16795
disposal of low-level to ground, bitumen method for, 21:32357(P)
disposal of low-level, comparison of incinerators for, 21:30657 (CONF-660904-Vol.1 and 2, pp 570-85)
disposal of low-level, in Clinch River, radiation dose to man from, 21:16307
disposal of low-level, in Czechoslovakia, method for underground, 24:27320
disposal of low-level, in oceans, effects on food chains of, 21:39168
disposal of low-level, into Clinch and Tennessee Rivers, radioisotope content in bottom sediments from, 21:16028 (ORNL-3721(Suppl.2A))
disposal of low-level, into Clinch River, radioisotope content in bottom sediments from, 21:16029 (ORNL-3721(Suppl.2B))
disposal of low-level, into Tvaeren Bay, Sweden, hydrological research on, 21:15999
disposal of low-level, to environment at UK nuclear power stations, 25:21358
disposal of medium- and high-level in Sweden, survey of research and development on, 21:22119
disposal of medium- and high-level solid, from Italian nuclear research center, geological studies related to, 24:16675 (RT/PROT-(69)22)
disposal of miscible liquid, in homogeneous isotropic nonabsorbing granular media, (E/T), 22:27914
disposal of N Reactor, methods for, 25:2426
disposal of nuclear explosion-produced, at Carlsbad Site, New Mexico, equipment and methods for, 25:2420 (NVO-410-2)
disposal of nuclear power plant, contamination of atmosphere by, 23:12105
disposal of nuclear power plant, economics of, 24:29483 (SZS-2/70)
disposal of nuclear submarine, hazards of, 25:19014
disposal of ORNL reactor-produced gaseous, method for calculating ground-level contamination from stack, 25:8452 (ORNL-TM-3187)
disposal of plutonium, methods for, 22:8200
disposal of plutonium-contaminated lithium scrap, chemical method for, 24:7613 (RFP-1347)
disposal of power plant, contamination of environs by, 22:2230
disposal of power reactor, effects on river water quality from, 25:26009
disposal of power reactor-produced, development of safe methods for, 25:23757
disposal of Purex process, at Hanford, effects of Ben Franklin Dam on, 21:32347 (BNWL-412)
disposal of radioisotope-containing, Italian regulations for, 25:13207
disposal of radionuclides of short or medium half-life, 22:27886
disposal of reactor cooling water in Columbia River at Hanford, 22:45145 (K-1754)
disposal of reactor cooling water-contained, into Columbia River, effects on radioisotope content of river sediments and waters, (E), 25:57561 (TID-25786)
disposal of reactor-produced, Japanese research on, 23:16065 (KURRI-TR-9, pp 3-5)
disposal of small quantities of laboratory, efficiency of incinerator air cleaning system for, 23:2540 (AERI-23)
disposal of small volumes of liquid and solid, design of container and equipment for, 23:11747(P)
disposal of solid and liquid, from U. S. Naval nuclear-powered ships and maintenance facilities during 1964 to 1968, monitoring of, 24:2668
disposal of solid, at Los Alamos Scientific Laboratory, 21:30662 (LA-DC-8347)
disposal of solid, at ORNL TRU, 21:24186 (ORNL-TM-1815)
disposal of solid, at shallow depths, site selection criteria for, 22:16809
disposal of solid, by reentry ablation, 21:6177
disposal of solid, chemical and physical properties of Trombay soils for, 22:16808
disposal of solid, description and operation of commercial facilities for land burial in US, 24:7617 (WASH-1143)
disposal of solid, from fluidized-bed fluoride volatility fuel reprocessing, 23:26491 (BNL-50139)
disposal of solid, from fluidized-bed fluoride volatility process, 24:7486 (ORNL-4414)
disposal of solid, from nuclear power plants, economic aspects of methods for, 25:2425
disposal of solid, from nuclear-powered naval vessels during 1963 to 1967, volume of, 23:31744
disposal of solid, in salt deposits, National Academy of Sciences recommendations for, 25:8455 (TID-25576)
disposal of solid, in sea, Harwell methods for, 25:44578
disposal of solid, in soil at shallow depths, 22:16806
disposal of solid, into Atlantic Ocean, European Nuclear Energy Agency operation for, 22:51121
disposal of solid, into eastern Atlantic Ocean, European Nuclear Energy Agency program for, 25:4268
disposal of solid, USAEC interim program for, 22:16807
disposal of solidified high-level, in salt mines, feasibility and safety of, 24:5864
disposal of solidified high-level, in salt mines, USAEC program for, 25:26453
disposal of solidified, heat generation from underground, 22:2330(T) (JPRS-42565, pp 36-55)
disposal of solidified, in France, 21:10569 (CONF-660208-, pp 82-4)
disposal of solidified, in glasses and ceramics, 22:16825
disposal of solidified, in salt mines in Germany, 21:10570 (CONF-660208-, pp 85-9)
disposal of solidified, parameters which affect, 22:286
disposal of solidified, safety evaluation for underground, 24:48251
disposal of SRE, description during disassembly program of, 22:53259 (AI-AEC-12572)
disposal of uranium mill, methods for, 22:51050
disposal of zirconium, method for, 23:38916 (AHSB(S) R-167)
disposal of, at Idaho Chemical Processing Plant, 21:10577 (CONF-660208-, pp 388-99)
disposal of, at Studsvik, Sweden, 21:1539 (AE-234)
disposal of, bibliography on safety in, 24:16219 (ORNL-NSIC-72)
disposal of, by fixation in ceramic sponges, 21:8569
disposal of, by fixation of radioactive residues, 21:3229(R) (BNWL-306)
disposal of, by hydraulic fracturing, 21:8565 (ORNL-4007, pp 1-41)
disposal of, by hydraulic fracturing of shale, 22:48916 (ORNL-4259)
disposal of, by various methods, 21:14311
disposal of, characterization of Trombay Island soils for, 22:28035 (BARC-297)
disposal of, chemical research in, 22:23080
disposal of, coal industry briefing on, 21:17438 (CONF-660930)
disposal of, comparison of methods for liquid and solidified, 21:10565 (CONF-660208-, pp 3-16)
disposal of, conference on, 21:40760
disposal of, conference on, 21:1756
disposal of, design criteria for containers for deep sea, 22:16746
disposal of, design of equipment for, 23:11615
disposal of, design of incineration plant for, 23:38231(P)
disposal of, design of incinerator for, 23:38230(P)
disposal of, economic impact on nuclear power cost, 21:12616
disposal of, economics of, for 1970 to 2020, 23:365 (ORNL-4272, pp 225-37)
disposal of, effect of dilution on downwind concentration in stack, 21:14333
disposal of, effects on human environment, 25:24076 (P-4415(RAND))
disposal of, effects on public health as function of method, 25:6708
disposal of, engineering, economic, and safety evaluations of methods for, 24:269 (ORNL-4422, pp 120-53)
disposal of, equipment for safe, 21:259
disposal of, evaluation of nuclear explosion methods for excavating deep-underground repositories for, 25:51664 (UCRL-72769(Rev.1))
disposal of, from beagle colony, beta activity from, 22:10827(R) (UCD-472-114)
disposal of, from fast reactors, economics and facilities for, 21:4592 (ANL-7125, pp 107-18)
disposal of, glassification studies for, 23:4739
disposal of, guides for, at Savannah River Plant, South Carolina, 22:43321
disposal of, handbook on methods for, 22:10779
disposal of, hazards of sea, 21:22306
disposal of, hazards to environment and man from, 24:25254
disposal of, hydraulic fracturing method for, 24:39173 (ORNL-4446, pp 9-11)
disposal of, hydraulic fracturing method for, 24:48250
disposal of, in Canada, Mexico, and USA, 21:6495 (TID-23286)
disposal of, in Federal Republic of Germany, 22:8332
disposal of, in fluoride volatility processes, 21:14310
disposal of, in natural salt formations, 21:8565 (ORNL-4007, pp 1-41)
disposal of, in oceans, review of factors affecting hazards from, 21:8472(T) (AEC-tr-6641, pp 1-6)
disposal of, in soil, temperature distribution from, 21:5991(R) (IDO-14680)
disposal of, in underground cavities created by nuclear explosions, 21:207
disposal of, incineration equipment and method for, 24:454
disposal of, international regulations on control of, 25:6525
disposal of, Japanese trends in, 25:4317
disposal of, leach tests on durability of borosilicate and phosphate glasses for, 22:18906
disposal of, long-range management studies of, 21:8565 (ORNL-4007, pp 1-41)
disposal of, methods for 1000 MW(e) fast breeder reactors, 21:5596 (ANL-7001)
disposal of, methods for ultimate, 24:22976
disposal of, methods to minimize surface water contamination from, 23:38099
disposal of, national and international legal aspects of, 24:7914
disposal of, performance of wet and dry off-gas incinerator systems for, 23:21923 (CONF-680821-, pp 312-29)
disposal of, problems in, 23:40819
disposal of, production of insoluble aerosols for, 22:10323 (LF-37)
disposal of, program for, 22:49330
disposal of, recommendation for legislation on, 24:9863
disposal of, regulations for, from nuclear powered ships and support facilities, AEC and ICRP, 22:28457
disposal of, regulations regarding, 24:50934
disposal of, research progress on, 22:6436 (ORNL-4168, pp 1-60)
disposal of, review, 21:27883
disposal of, review of environmental effects from, 25:54784
disposal of, review of methods for, 23:346 (LA-DC-10006)
disposal of, review of methods for economic, 25:18570
disposal of, review of safe techniques for, 22:47235
disposal of, review of Soviet research on, 22:2178 (UJV-1899)
disposal of, review of West German methods for final, 22:40346 (CONF-660345-1)
disposal of, review of worldwide methods for, 25:6528
disposal of, review on problems in equipment and methods for, 24:11668
disposal of, role of, in contamination of hydrobiosphere, 21:8763
disposal of, safety aspects of, 25:36973

disposal of, safety hazards of prefabricated emergency incinerator system for, 23:21924 (CONF-680821-, pp 362-7)
disposal of, safety problems in, 22:42760
disposal of, safety studies for, 25:48294
disposal of, sea-dumping experiments on, 23:348 (NP-17579, pp VI.7-8)
disposal of, shock resistance testing of ferro-concrete, concrete containers for ocean, 23:597
disposal of, solidification equipment for, 21:1540(R) (IAEA-3431-3)
disposal of, standards for, 22:490 (CONF-660649)
disposal of, standards for safe, 21:39163 (BNL-11508)
disposal of, summary of safety studies on, 22:53395
disposal of, summary of USAEC regulations on, 25:26455
disposal of, technical progress review on, 22:33526
disposal of, University of Minnesota program for, 24:7622
disposal of, US developments in and plans for, 22:21299
disposal of, using rigid gels, method for, 21:8572(P)
disposal of, USSR developments in and plans for, 22:21300
disposal operations at Kjeller, summary, 21:2864(R) (KR-109)
disposal pits, growth of pine seedlings on, 23:35935 (ORO-2066-13, pp 11-18)
disposal procedures for Elk River Power Reactor, effects of fuel element failure on, 21:46861(R) (NUS-401)
disposal procedures for, at cobalt-60 irradiation facilities, 23:17517 (JAERI-5017, pp 140-2)
disposal program for, from Canadian Power Reactors, 23:49897 (PHS-999-RH-33, pp 160-8)
disposal requirements for nuclear power plants, 25:28621 (STI/PUB-261)
disposal sites in relation to radioisotope distribution in aquatic environment, 24:7793
disposal studies at Chalk River Nuclear Laboratory during 1969, liquid, 24:7727 (AECL-3374)
disposal system for 1000 MW(e) LMFBR, description of gas and liquid, 22:9990(R) (BAW-1312)
disposal system for Fast Flux Test Facility, flow diagram of, 23:4300(R) (BNWL-880)
disposal system for LITR, description of, 22:25095 (ORNL-TM-1737)
disposal system for nuclear power plant, 25:28626
disposal system for PM-1, design of evaporative-type, 21:34429 (TID-23865)
disposal system for power reactor offgas, description and operation of, 25:50909
disposal system for reactor cover gas and offgas, performance of activated charcoal delay lines for, 25:51251
disposal system of FTR, revised design safety criteria for, 24:18695 (BNWL-823)
disposal systems for hot laboratories, manual on safety aspects of, 24:7867 (STI/PUB-169)
disposal systems for power reactors, design requirements of, 25:20684
disposal systems for Triga Mark F gaseous and liquid, 21:42810 (AD-645546)
disposal to atmosphere at EUROCHEMIC in Belgium, criteria for environmental monitoring program for, 24:7821
disposal to atmosphere by nuclear establishments in United Kingdom, review of monitoring methods for, 24:7847
disposal to atmosphere from nuclear installations in United Kingdom, limitations of environmental monitoring for, 24:7846
disposal to atmosphere, design of filtering device to remove particulate matter before, 22:10473(P)
disposal to atmosphere, effect of wind turbulence on hazard of, 22:6484 (SC-DC-67-2343)
disposal to atmosphere, world health implications of, 23:29014
disposal to Clinch and Columbia Rivers, safety hazards of, 23:7636
disposal to environment, UKAEA methods for control of, 25:18635
disposal to ground near Casaccia Nuclear Research Center, Italy, effects of geologic and hydrologic conditions on, 24:19086
disposal to ground of low-level liquid, sorption on soil minerals of radioisotopes in, (E/T), 21:19880 (IDO-12046)
disposal to ground of, movement in soils and ground water from, 21:36323 (BNWL-432)
disposal to ground, addition of resin-forming materials to concrete for, 23:35323(P)
disposal to ground, cesium and strontium dispersion, migration, and sorption in, (E/T), 22:8206 (BNWL-CC-208)
disposal to ground, cesium and strontium sorption by soils from, 21:34331 (BNWL-CC-539)
disposal to ground, contamination of ground waters and soils from, 22:12430(R) (SC-CR-67-2708)
disposal to ground, contamination of permeable and impermeable rocks from, 22:16802
disposal to ground, effect on ground water contamination of, 22:16803
disposal to ground, effectiveness of gravel layers for diverting water from burial trenches for, 23:31415 (DP-1160)
disposal to ground, effects of geologic conditions on, 23:26357
disposal to ground, effects on contamination of natural waters around Casaccia, Italy, 22:16811
disposal to ground, from primary reactor loop, 23:6278 (BNWL-SA-2016)
disposal to ground, ground water contamination from, 22:19085(R) (BNWL-687)
disposal to ground, ground water contamination from, 23:35324
disposal to ground, improved method for, 23:7722(P)
disposal to ground, sodium and ruthenium transport through aquifiers from, 22:23142
disposal to Irish Sea, effects on radioactive contamination, 22:23179 (A-AC-82/G/L-1191)
disposal to Lake Michigan, health hazards to public from, 24:20969 (NUS-TM-S-60)
disposal to Neckar River of Obrigheim Power Reactor, 25:18094 (NP-18622)
disposal to oceans, antishock properties of concrete containers for, 22:23237
disposal to ponds at NRTS, effects on ground water contamination, 23:40856 (IDO-12071, pp 32-4)
disposal to sea, contamination problems in, 23:4755
disposal to sea, international laws for, 23:16072
disposal to soils, factors affecting soil contamination from, 23:33364 (CEA-R-3635(1))
disposal to surface waters, hazards from, 22:23250
disposal to surface waters, health hazards from, 23:2417
disposal to the Danube River in Austria, future plans for, 25:21354
disposal underground, hydrological studies for, 21:264
disposal underground, parameters for, 24:44228(R) (KFK-1138)
disposal, guide to safety procedures during, 23:29544 (THAI.-AEC-1(Rev.1))
disposal, processing, and storage of, review of methods for, 23:45496
disposal, regulations for efficient and safe, 23:2827
dissolution of zirconium calcination product, 23:4 (IN-1203, pp 8-29)
distribution and transport of liquid, in Rhone Basin, method for studying, 25:46561
distribution in Clinch River, evaluation of, 25:16180
distribution in rivers and water basins, use of tracer techniques for study of, 21:28093
distribution of boiling power reactor, 25:56979
dose rates from boiling power reactor, 25:56979
drying by atomization, heat transfer in, 25:252
drying of solutions of, design of cylindrical vessel for atomized, 25:252
effects of buried, on growth and survival of pine seedlings, 25:37755(R) (ORO-2066-15)
effects of fuel reprocessing, on biosphere, methods for minimizing, 25:34844 (CONF-700440-1)
effects of Hanford, on zinc-65 concentrations in edible fish in Columbia River, 21:8722
effects of nuclear power plant liquid, on tritium content in environment, 23:38101
effects of reactor, on animals in aquatic ecosystem, 25:11006
effects of, on mortality of young salmon, 21:14549 (BNWL-280, pp 132-3)
effects on communities of aquatic animals and plants, 23:31683
effects on contamination of seawater, measures for prevention and control of, 25:32403
effects on environment following discharge from nuclear power plants, JCAE hearings on, 25:6667
effects on environment of Los Alamos Scientific Laboratory, monitoring program for, 24:48463 (LA-3639)
effects on environment of power reactor, 24:28933 (BRH/DER-70-2)
effects on environment of U.S. of power reactor, 25:60001
effects on environment of U.S. power reactor, 25:60002
effects on fish populations of lakes, 23:18093
effects on growth of pine seedlings planted over waste disposal pits, 23:807(R) (ORO-2066-12)
effects on hydrologic environment, research program on, 25:34741
effects on incidence of ticks at National Reactor Testing Station, 23:6406
effects on marine environment in relation to health physics problems, 24:34205
effects on marine organisms following discharge into seawater, 25:42373
effluents from fossil fueled and nuclear power plants, comparison of, 24:45911 (CONF-700810-24)
effluents from nuclear power plants, criteria for control of, 24:45914 (CONF-700810-28)
effluents from nuclear power plants, environmental apects of, 24:45928 (CONF-700810-51)
effluents from power reactors, role in Italy of Ministry of Health in controlling, 24:22368
encapsulation and storage of liquid, for recovery of cesium-137 and strontium-90, design of facilities for, 24:413 (ARH-SA-41)
encapsulation of alumina beds from volatility processing of fuels, 23:17507(T) (AEC-tr-7028, pp 154-98)
encapsulation of, welding methods for, 25:48773(R) (ARH-2029)
environmental effects from, 25:20683
environmental effects of power reactor, 25:18044
estimation of, from light water and LMFBR, 23:356 (ORNL-4272, pp 72-91)
evaporation of aqueous, filtration of steam from, 24:285
evaporation of liquid, at the Swedish Research Establishment, 21:262
evaporation of liquid, design of infrared heater equipment for, 25:21374
evaporation of liquid, to salt cakes, in-tank, 25:41887 (ARH-SA-25)
evaporation of low- and intermediate-level, report of 1966 IAEA panel on, 22:25464 (STI/DOC-10/82)
evaporation of low-level sludge, solar, 21:10431
evaporation of organic wash, from Purex Process, 23:13821 (HW-71145)
filtration of gaseous, design and performance of high-efficiency deep bed system for, 25:21272 (CONF-700816-(Vol.2), pp 738-50)
filtration of low- and intermediate-level, report of 1966 IAEA panel on, 22:25464 (STI/DOC-10/82)
filtration of, cleaning of filters used in, 25:13094(P)
filtration of, properties of dolomite and phosphorite for use in, 23:344 (INR-922)
fission product decay in glass cylinders containing, temperatures from, 25:54726
fission product release from simulated high-level ceramic, effect of temperature on, 21:17805 (BNWL-338)
fission product removal from low- and intermediate-level liquid, performance of vermiculite for, 23:6276 (BARC-340)
fission-product recovery from, in France, 21:38997(R) (EUR-3299.f)
fixation by conversion to phosphate glass, evaluation of test runs for, 23:23935(R) (BNWL-1009)
fixation by conversion to phosphate glass, evaluations of test runs for, 23:11252(R) (BNWL-926)
fixation by conversion to phosphate glass, evaluation of test runs for, 24:22423(R) (BNWL-1315-1)
fixation by conversion to phosphate glass, evaluation of test runs for, 24:13562(R) (BNWL-1266)
fixation by conversion to phosphate glass, evaluation of test runs for, 23:2053(R) (BNWL-885)
fixation by conversion to phosphate glass, evaluation of test runs for, 23:43130(R) (BNWL-1084)
fixation by conversion to phosphate glass, evaluation of test runs for, 23:9183(R) (BNWL-816)
fixation by conversion to phosphate glass, evaluation of test runs for, 23:52378(R) (BNWL-1187)
fixation by pot calcination, phosphate glass solidification, and spray solidification, (E), 24:36044(R) (BNWL-1315-2)
fixation in bitumen emulsions, 25:32036 (CEA-N-1419, pp 91-113)
fixation in bitumen material, methods for, at CEN, Belgium, 21:268
fixation in bitumen, cement, ceramic materials, and glass, research progress on, 25:37460(R) (KFK-1346)
fixation in bitumen, cements, ceramics, and glass at Karlsruhe nuclear center, 24:41641(R) (KFK-1030)
fixation in bitumen, developments in research on, 23:43388
fixation in bitumen, mixer-evaporator and plant design for, 25:54981
fixation in bitumens by effluence process at Marcoule, 24:300
fixation in bituminous materials, effects of process parameters on, 24:11754 (KFK-1037)
fixation in cements, 23:15928(T) (KFK-tr-260)
fixation in concrete, effect of concrete composition on, 21:8568 (UJV-1609)
fixation in concrete, method for, 21:270
fixation in concrete, mixing apparatus design for, 21:28188(P)
fixation in concrete, plant design, operation, and economics for, 25:37472
fixation in concretes, 21:25953
fixation in concretes, 22:25515
fixation in glass, 22:23094(R) (IAEA-3431-4)
fixation in glass for disposal of, 21:19885(P)
fixation in glass of, effects of melt composition and temperature on, 21:10581 (CONF-660208-, pp 549-65)
fixation in glass of, Fingal process for, 21:10578 (CONF-660208-, pp 427-46)
fixation in glass, applicability of volcanites for, 22:23102
fixation in glass, effect of melt additives on, 21:22114(R) (BNWL-365)
fixation in glass, effects of solid fluoride residues on, 23:17726 (CEA-CONF-1196)
fixation in glass, from fuel reprocessing plants, method for, 21:19884(P)
fixation in glass, methods for, 21:1540(R) (IAEA-3431-3)
fixation in glass, process for, 22:35910
fixation in glass, research progress on, 23:2367(R) (BNWL-889)
fixation in glass, research progress on leaching following, 25:39559(R) (BNWL-1578)
fixation in phosphate glass, 24:9421(R) (BNWL-1263)
fixation in Polish bitumen, feasibility studies on, 25:34845 (INR-1249)
fixation in salt cakes and soil using polymers, 25:44439 (BNWL-1220)
fixation of aqueous intermediate- and low-level, in emulsified asphalt, process development for, 21:30663 (ORNL-4003)
fixation of aqueous or organic, in asphalt or plastics for burial, economic aspects of, 24:22932
fixation of concentrated, in cement, vacuum exhaustion method for, 23:50094 (UJV-2097-CH)
fixation of fission product, in molecular sieves, 21:10440(P)
fixation of high-level liquid, in glass, design of plant for Fingal process, 24:9627
fixation of high-level liquid, in polysilicate by thermite process, 22:6371
fixation of high-level, in basalt, heat generation and temperature distribution from, 24:19182(T) (BNWL-tr-45)
fixation of high-level, in basalts, 21:32247
fixation of high-level, in glass, 22:47306(R) (BNWL-771)
fixation of high-level, in glass, 22:45146 (NP-17588)
fixation of high-level, in glass, development of laboratory process for, 21:39164 (ORNL-3816)
fixation of high-level, in glasses and ceramics, 21:41192
fixation of high-level, in silicate minerals by thermite process, 23:45378(P)
fixation of intermediate-level liquid, in asphalt, hot-cell evaluation of, 22:10531 (ORNL-4059)
fixation of intermediate-level, in glass, continuous and discontinuous methods for, 22:2325 (RISO-150)
fixation of liquid and solid, in bitumen, development of methods in France for, 25:21121
fixation of low-level, bitumen method for, 21:32357(P)
fixation of medium-level, in bituminous materials, Eurochemic method for, 25:15865 (NP-18574)
fixation of Purex-type, in phosphate glass, for ruthenium retention, 23:4738
fixation of, computer code for solid, 22:19087 (ORNL-3824(Suppl.1))
fixation of, in asphalt, 21:10439(P)

fixation of, in glass, process for, 21:12515(P)
fixation using aluminum silicates—magnesium silicates, 25:32063(P)
flow control of liquid, testing of vortex restrictor for, 23:21855 (IN-1271)
handling and packaging of concentrated liquid, design of facility for, 25:48819 (CONF-710801-(Vol.1), pp 210-26)
handling and salt mine storage of high-level solid, design and operation of equipment for, 23:17735
handling and shipping of solid, at Nuclear Research Center, Federal Republic of Germany, 23:43504(R) (KFK-888)
handling and shipping of solid, from hot cells, Padirac equipment and method for, 24:5856
handling and storage at Harwell Research Establishment, equipment and methods for, 23:16060 (AERE-R-5900)
handling and storage of fuel-fabrication generated, 21:39169
handling and storage of gaseous, liquid, and solid, on Japanese first nuclear-powered ship, 24:2432
handling and storage of high-level, comparison of methods for, 21:17807
handling and storage of liquid and solid, from spent fuel reprocessing plant, methods for, 24:9628
handling and storage of liquid and solid, in Poland, equipment and method for, 25:2422
handling and storage of, from light water reactors, description and economics of, 23:17733 (ORO-665, pp 85-119)
handling and storage of, review of methods for, 24:22977
handling and transport for disposal into ocean, Fiascherino Laboratory facilities for studying, 23:50101
handling and transport of, description of shielded vehicle for, 24:31549
handling from hot laboratories, 21:28144
handling fusion process, problems and precautions in, 22:49059
handling in hot cells at Grosswelzheim, Germany, equipment and methods for, 24:31659
handling in Hungary, regulations for, 21:3406
handling in Livermore neutron cells, design of transfer system for, 21:43094 (UCRL-70494)
handling of light water reactor, at AWRE, Aldermaston, England, 25:21356
handling of liquid and solid, from hot cells at Seibersdorf Reactor Center, Austria, equipment and methods for, 24:31561
handling of solid, from Casaccia, Italy hot cell, equipment and methods for, 24:31559
handling of, Swedish research progress in, 21:19719
handling systems for NERO Marine Reactor, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
hazards from methyl iodide, 21:6411
hazards of management of, evaluation of, 23:12104
hazards of, to biosphere, 21:14643
heat content in solidified, measurement of, 21:43216(R) (BNWL-507)
heat generation in solidified, 23:21774(R) (BNWL-1003)
heat penetration of, buried in soil, 21:10591 (IN-1032)
heat transfer from stored, HOTANK program for, 22:19032 (BNWL-616)
heat transfer from, to soil, 21:3206 (BNWL-262)
immobilization of intermediate-level, in asphalt, 22:23109
incineration of animal carcasses, equipment for, 21:258
incineration of combustible solid, feasibility study of, 25:44571 (WASH-1168)
incineration of Marcoule Center, review of results of, 23:31509 (CEA-R-3721)
incineration of plutonium-containing, design of equipment for, 25:21371
incinerator for, design of, 23:38229(P)
incinerator for, engineering evaluation of, 21:30656 (CONF-660904-Vol.1 and 2, pp 509-69)
incinerators for low-level, at AERE, Harwell, 21:269
incorporation in asphalt, 22:6381
incorporation in asphalt and polyethylene, feasibility studies of, 23:35447
incorporation in asphalt and polyethylene, feasibility studies of, 25:13197
incorporation in basalt, calculation of maximum amount for, 22:18875
incorporation in basalt, heat evolution and temperature distribution from, 22:18875
incorporation in bitumens adsorbed on natural sorbents, 25:21128
incorporation in glass blocks, 22:37826(T) (ANL-Trans-628, pp 51-128)
incorporation in phosphate glass, pilot plant for, 22:37900 (BNL-50082, pp 153-80)
incorporation in polyethylene, 25:54715 (ORNL-4682, pp 95-113)
incorporation into bitumen for disposal, review of worldwide developments in, 24:46458 (STI/DOC-10/116)
incorporation of animal cadaver, in bitumen, facilities for, 25:21129
incorporation of aqueous and organic intermediate-level, in asphalt or polyethylene, 23:356 (ORNL-4272, pp 72-91)
incorporation of fuel reprocessing, in glass cylinders, 25:54726
incorporation of intermediate-level, in asphalt, 21:45202 (ORNL-4145, pp 104-29)
incorporation of intermediate-level, in asphalt, process for, 24:2414 (JEN-204-DMa/I-24)
incorporation of liquid, in polyethylene, 23:40844(P)
incorporation of sodium nitrate-containing, into bitumen, facilities for, 25:21127
injection in fluid-bed calciner using pneumatic nozzles, 22:23109
injection of liquid, into underground shale deposits, production of earthquakes by, 24:48197 (ORNL-TM-3154)
iodine-131 removal from, efficiency of filter materials for, 23:29074
isotope separation from liquid, use of flocculation and precipitation for, 23:48029(T) (CEA-tr-A-1957)
krypton-85 removal from gaseous, equations for calculating efficiency of fission gas adsorption beds for, 25:18560 (CONF-700816-(Vol.1), pp 207-15)
krypton-85 separation from, electrostatic diffusion method for, 22:28037(R) (NYO-841-12)
leach rates from phosphate glass in water, 23:2053(R) (BNWL-885)
leach rates from phosphate glass in water, 23:9183(R) (BNWL-816)
leach testing of immobilized solid, proposal for standard method for, 25:37474
leaching from concretes, 22:25515
leaching of buried, by ground water, use of bentonite cover to minimize, 21:16096
leaching of solid, by water, recommendations on tests of, 24:16618 (CEA-CONF-1400)
leaching rates of solidified, IAEA recommendations on method for determining, 22:25464 (STI/DOC-10/82)
level monitor for solid, development of ultrasonic, 25:29393 (IN-1452)
levels in effluents from dual purpose water cooled and moderated desalination and power reactors, 24:33473 (NP-18234)
location in storage tanks, infrared scanning system for, 23:38364
location of deposits of, in underground storage tanks, infrared scanning method for, 23:2547
location of residual, in sluice-emptied underground storage tanks, infrared method for, 23:24413 (BNWL-SA-1952)
management and disposal of liquid and solid, from Italian nuclear power stations, 25:21357
management and disposal of low-level, in US, future plans for, 25:21351
management and storage of intermediate-level solid, at Saclay, France, 25:21360
management and storage of low- and intermediate-level, at Cadarache Center, France, 25:21361
management at AERE, Harwell, review of methods for, 25:21362
management at Eurochemic, experience on, 24:46461
management at Fontenay-aux-Roses, France, 25:21365
management at fuel reprocessing pilot plant at Junta de Energia Nuclear of Spain, 22:6427
management at Hanford, policies and practices for, 23:24412 (ARH-SA-30)
management at ICPP, 25:34690(R) (IN-1457)
management at ICPP, 22:4231(R) (IN-1087)
management at Idaho Nuclear Corporation, 24:2646 (IN-1310, pp 39-41)
management at nuclear power plants, comparison of international design data and operating experience for systems for, 24:7616 (STI/PUB-208)
management at Pakistan Institute of Nuclear Science, equipment and methods for, 25:8449 (CONF-691008-18)
management in Austria, future plans for, 25:21354
management in Japan, 25:21143
management in US, status of programs for, 25:4275
management methods for, development of western European, 25:18625 (SGAE-RT-35/1970)
management of fuel processing, economics and safety aspects in, 21:34322
management of gaseous and liquid, from Japanese fuel reprocessing facilities, safety aspects of, 24:31650
management of gaseous and liquid, from Japanese nuclear power plants, 25:51745 (A/CONF.49/P-253)
management of gaseous, liquid, and solid, methods for safe, 24:44233
management of gaseous, liquid, and solid, review of technical, safety, and public relations aspects of, 25:39675
management of high-level, economic and safety aspects of, 24:41384 (BNWL-1393)
management of high-level, equipment and methods for, 21:14409
management of liquid and solid, at Ispra, Italy, 25:21366
management of liquid and solid, from Hungarian radioisotope production plant, equipment and methods for, 24:31651
management of liquid, at Boris Kidric Institute, 25:21355
management of low- and intermediate-level liquid and high-level solid, in Japan, long-range studies of, 25:21346
management of low- and intermediate-level liquid and solid, in Italy, 25:21349
management of low- and intermediate-level solid, in the Netherlands, 25:21348
management of low- and intermediate-level, at KFA, Juelich, Germany, 25:21119
management of low- and intermediate-level, at UK nuclear power stations, 25:21358
management of low- and intermediate-level, Belgian policy for, 25:21350
management of low- and intermediate-level, French policy on, 25:21343
management of low- and intermediate-level, in Germany, 25:21347
management of low- and intermediate-level, review of Belgian methods for, 25:21363
management of low-, intermediate-, and high-level, long-range study of, 23:9681 (ORNL-4316, pp 1-69)
management of low-level liquid effluent, at Idaho Chemical Processing Plant prior to disposal, 25:21123
management of low-level, at Bhabha Atomic Research Center, Bombay, India, operational experience in, 25:21367
management of power reactor, procedures and policies for, 25:57001
management of power reactor-produced, developments in, 24:22972
management of Savannah River gaseous, liquid, and solid, 23:26357
management of solid, in US hospitals, equipment and methods for, 25:34856
management of various types of, in Portugal, 25:21344
management of, Brazilian methods and policy for, 25:21353
management of, Canadian experience with facility for, 25:21352
management of, cost analysis for, 21:10588 (CONF-660208-, pp 800-29)
management of, cost analysis for, 21:10589 (CONF-660208-, pp 844-57)
management of, economic aspects of, 24:7615 (STI/DOC-10/83)
management of, economic, engineering, and safety evaluations of methods for, 21:45202 (ORNL-4145, pp 104-29)
management of, economic, engineering, and safety evaluations of methods for, 22:6436 (ORNL-4168, pp 1-60)
management of, engineering, economic, and safety evaluations of, 25:54715 (ORNL-4682, pp 95-113)
management of, future goals for, 25:21375
management of, Hanford policy for, 24:46455 (ARH-SA-65)
management of, IAEA research contracts on, 24:4192 (STI/DOC-10/74)
management of, IAEA sponsored research on, 24:39470 (STI/DOC-10/105)
management of, review of 1964 Geneva Conference papers on, 24:22735
management of, studies on, 24:9429(R) (IN-1314)
management of, survey of past, present, and future methods for, 25:21342
management of, training course in, Rio de Janeiro, Oct. 14-25, 1968, 23:346 (LA-DC-10006)
management of, UK policy for, 25:21345
management programs at Bhabha Atomic Research Center, India, 21:41292(R) (NP-16972)
management programs in US, 1964 JCAE hearings on, 22:12218
management system for treatment and disposal of, description and selection of, 22:12562 (STI/PUB-170)
management system for, safety evaluation of, 23:13828(R) (ORNL-TM-2294)
management, report to the President on, 21:19387 (TID-23729)
mixing of liquid, in hold-up tanks of Texas A and M reactor, (E), 24:2016 (DOCKET-50128-3)
monitoring at Hanford Project during 1968, 23:43747 (BNWL-1135)
monitoring at Lohmen, East Germany, review of, 23:465
monitoring at Shippingport Atomic Power Station during 1968, 24:12081
monitoring at United Kingdom atomic energy establishments during 1969, 25:16128 (AHSB(RP)R-105)
monitoring chemical processing plant, 25:42410
monitoring during disposal, calibration of G—M detector system for, 23:24427 (KURRI-TR-13)
monitoring following discharge of liquid, programs in United Kingdom for, 25:42380
monitoring in coastal and surface waters of British Isles, 22:16728 (FRL-1)
monitoring in environs of nuclear facilities, 22:25858
monitoring in Lake Michigan, use of Pontoporeia affinis (crustacean) for, 25:49126
monitoring in Perch Lake, routine, 24:41875 (AECL-3430, pp 19-31)
monitoring near nuclear facilities in U.K., evaluation of program for, 25:16155
monitoring of aqueous solutions of, use of immersible γ spectrometer for, 22:45564
monitoring of disposal near UKAEA sites, 22:279 (AHSB(RP)R-79)
monitoring of effluent and liquid, in Ottawa River waters, routine, 24:41875 (AECL-3430, pp 19-31)
monitoring of gaseous and liquid, at S1C Prototype Reactor Facility during 1969, 25:21693
monitoring of gaseous and liquid, from Kyoto University research reactor facility, 23:15965 (KURRI-TR-1)
monitoring of gaseous and liquid, from power reactors, design guide for, 21:36322 (BNWL-251(Rev.))
monitoring of liquid, in environs of Institute of Nuclear Research-Zeran Center during 1968, 24:44488 (INR-1117)
monitoring of low level, use of gas flow counters for, 21:26137
monitoring of low-level liquid BNL, 1965, 22:40258 (BNL-50093)
monitoring of low-level liquid, system description for, 22:36022 (AE-317)
monitoring of nuclear power plant, 25:28624
monitoring of pressurized water power reactor, 25:41361
monitoring of stored, description of system for, 22:40375(P)
monitoring of, released from power reactors to environment, 21:6164 (BNWL-251)
monitoring programs for, in U.S.A, 23:6451 (PHS-PUBL.-1224)
movement in soils, model experiments on, 22:16800
movement in soils, model of, 22:51208
movement of liquid, through hydrological system near Hanford reservation, 21:24185 (ISO-SA-32)
movement of, through saturated porous media, 21:10444 (ORNL-TM-1681)
nuclear properties of accumulated, computer program for calculating, 21:45202 (ORNL-4145, pp 104-29)
oxidation of liquid organic, catalytic, 23:13811 (BNWL-856)
packaging and storage of cesium-137 and strontium-90 liquid, design of facility for, 24:22978

packaging and transport of high-level vitrified, for disposal in Asse Salt Mine, safety evaluation of, 25:26448 (KFK-1263)
packaging of solid, from nuclear power plants, equipment and methods for, 25:39695
palladium recovery from, 23:28979
plutonium content in drums of, automatic scanning system and gamma spectrometer for determining, 23:635
plutonium content of solid, produced in reactor fuel fabrication and reprocessing plants, predictions to year 1990 of, 25:13188 (BNWL-B-34)
plutonium recovery from plutonium-bearing, methods for, 24:427
plutonium recovery from unmeasurable, by total incineration and laundering, 22:14560 (NUMEC-1661-1)
plutonium recovery from, procedures and nuclear materials management in, 23:28939 (ARH-SA-26)
plutonium separation from, bibliography on, 25:13190 (JAERI-Memo-4153)
predicted quantities of, from nuclear power plants in USA, 21:10565 (CONF-660208-, pp 3-16)
preparation and storage of glass blocks of, 22:27849 (CEA-N-816, pp 415-80)
problems of, encountered in radioisotope research laboratory, 21:1786
process for, development of spray calciner-melter, 21:10575 (CONF-660208-, pp 326-74)
processing alpha-emitting, combined flocculation and ion exchange method for, 25:57998 (NIRS-Pu-8)
processing aluminous and molybdic solutions of, by calcination, 22:27849 (CEA-N-816, pp 415-80)
processing and disposal at Savannah River Plant, 21:40951 (CONF-670542-, Paper 6)
processing and disposal at Soviet atomic power stations, 23:28981
processing and disposal at West Valley Processing Plant, 24:25096 (DOCKET-50201-33)
processing and disposal at West Valley Processing Plant, 24:41386 (DOCKET-50201-41)
processing and disposal of, 25:18515
processing and disposal of gaseous and liquid, at CANDU Reactor site, 21:30650 (AECL-2877)
processing and disposal of gaseous, liquid, and solid, safety criteria and economics of, 21:32351
processing and disposal of high-level, development of methods for, 21:12616
processing and disposal of liquid plutonium-239-containing, at Los Alamos, N. M., design of facilities for, 25:21369
processing and disposal of liquid, at Casaccia, Italy, 21:160
processing and disposal of liquid, design of facility for, 24:41649(P)
processing and disposal of liquid, in Japan, 25:42037 (JAERI-13666)
processing and disposal of liquid, into Danube River from future Austrian power reactor, economics and safety of, 25:26451 (SGAE-RT-33/1970)
processing and disposal of low- and high-level, at Petten, Netherlands, 22:33624
processing and disposal of low- and medium-level liquid and solid, methods for, 25:13191(T) (JPRS-51948)
processing and disposal of low- and medium-level, from agricultural research, 21:1545
processing and disposal of low-level liquid and solid, from thorium and uranium production pilot plants, 24:46457 (NLCO-1075)
processing and disposal of plutonium-containing, bibliography on, 25:13190 (JAERI-Memo-4153)
processing and disposal of solutions or suspensions of, using film-forming and binding agents, 25:57531
processing and disposal of, at BWR nuclear power station, 25:8340
processing and disposal of, at Farbwerke Hoechst AG, Germany, 21:40986
processing and disposal of, at nuclear center in Mexico, 25:34733
processing and disposal of, at nuclear installations, review on, 21:146 (JUL-359-DE)
processing and disposal of, at Tokai Research Establishment in Japan, 25:21118
processing and disposal of, bibliography on, 21:8567 (TID-3311(Suppl.2))
processing and disposal of, Czechoslovakian methods for, 22:2334(T) (JPRS-42565, pp 97-109)
processing and disposal of, economics and methods of, 25:13087
processing and disposal of, engineering, economic, and safety evaluations of methods for, 23:13828(R) (ORNL-TM-2294)
processing and disposal of, from fuel reprocessing, 23:416
processing and disposal of, from light water reactor at AWRE, Aldermaston, England, 25:21356
processing and disposal of, from power reactors, 24:2273
processing and disposal of, in Euratom countries, 21:19882
processing and disposal of, in Federal Republic of Germany, 25:57540
processing and disposal of, in United States for 1968, review on, 24:4359
processing and ground disposal of low-level, at Bhabha Atomic Research Center, Bombay, India, facilities for, 25:21367
processing and management in Taiwan from 1962 to 1966, 22:37868
processing and management of liquid and solid, Kyoto University, Japan, 25:37462 (KURRI-TR-81)
processing and management practices at Hanford, Wash., predicted effects of Gable Mountain Irrigation Project on, 25:34715 (BNWL-1502)
processing and release at West Valley Processing Plant, 25:10661 (DOCKET-50201-59)
processing and shipping of solid, from boiling water reactors, equipment and methods for, 25:48834 (CONF-710801-(Vol.1), pp 478-89)
processing and storage at fuel reprocessing plants, 23:9532
processing and storage for PRO Reactor, 21:21708
processing and storage in Soviet Union, methods for, 23:40969(T) (JPRS-48229)
processing and storage in USSR, economic aspects of, 25:21359
processing and storage of high-activity, from fuel reprocessing, 25:34697 (SZS-3/71 (pp 20-32))
processing and storage of high-level, from fuel reprocessing in US, cost estimates for, 25:6527
processing and storage of liquid and solid, at Ispra, Italy, 25:21366
processing and storage of, at Bombay research center, methods for, 25:21267 (BARC/INF-1)
processing and storage of, in Austria, description of methods for, 25:32200
processing and storage of, review of corrosion problems in, 25:55390
processing and storage, review, 22:4309 (TID-24102)
processing and use of, review of technical and economic problems in, 22:40152 (CEA-R-3449)
processing and utilization of, economic effects on power reactor fuel cycles from, 23:11620
processing at Dodewaard Nuclear Power Plant, 24:27212
processing at Eurex, plans for, 25:23725(R) (EUR-4604)
processing at Fontenay-aux-Roses, France, 25:21365
processing at Ispra, Italy, economics of, 22:30645 (CONF-670965-1)
processing at JAERI, 21:36575(R) (JAERI-5015)
processing at Juan Vigon National Nuclear Energy Center, Spain, 23:47602
processing at Kjeller, Norway, 22:16356 (KR-116)
processing at Marcoule plutonium production center, 23:47601
processing at the Tokai atomic power station, Japan, design of plant for, 22:6373
processing at West Valley Reprocessing Plant, 24:36346 (DOCKET-50201-38)
processing by bacterial leaching and precipitation, 23:17503(T) (AEC-tr-7028, pp 1-13)
processing by chemical precipitation, 24:33763 (UJV-2340-Ch)
processing by chemical treatment and ion exchange, 23:17503(T) (AEC-tr-7028, pp 1-13)
processing by coagulation-floculation and sedimentation, 23:45370 (STI/DOC-10/89)
processing by combustion at Karlsruhe Nuclear Research Center, 24:36368
processing by contacting with hydrated titanium oxide, 22:4265(P)
processing by electrodialysis using ion-exchange membranes, 21:36100
processing by filtration and ion exchange, 25:21152
processing by filtration through acid-activated diatomaceous earth, 22:21175(P)
processing by fixation in inorganic products, precipitation as insoluble salts, or adsorption on precipitates, 23:338 (CEA-R-3554)
processing by fluidized-bed calcination, leachability of calcine from, 23:38025 (IN-1298)
processing by ion exchange, 22:25465 (SZS-3/68)
processing by manganese dioxide process, 23:40801 (CEA-R-3821)
processing by phosphate glass fixation, 23:43380 (BNL-50130)
processing by precipitate flotation, composition and dehydration of sludge from, 24:31664
processing by precipitation method, effects of detergent on, 22:40159(T) (KFK-tr-229)
processing by precipitation of radioisotopes with calcium salts of fatty acids, 21:17720
processing by precipitation using sodium hypophosphate for recovery of uranium, 21:17583
processing by scavenging—flocculation methods, zeta potential control in, 24:9427 (EUR-4401)
processing by solidification, data tabulations on WSEP, 25:32034(R) (BNWL-1557)
processing by solvent extraction using amines, 24:46319
processing by spray solidification, 23:11596(R) (BNWL-923)
processing by spray solidification, 23:35255(R) (BNWL-1074)
processing by spray solidification, 24:33754(R) (BNWL-1401)
processing by spray solidification, 24:46298(R) (BNWL-1494)
processing by underground chemothermic melting of calcinated, feasibility of, 22:2331(T) (JPRS-42565, pp 56-66)
processing clinical, for radon removal, 21:12944
processing fission product solutions by vitrification, 22:27849 (CEA-N-816, pp 415-80)
processing following treatment of irradiated plutonium—aluminum target assemblies by solvent extraction and ion exchange, 21:32244
processing for burial in emulsified asphalt, 23:2545
processing for disposal, pilot plant methods for, 22:2325 (RISO-150)
processing for plutonium recovery, 21:1541 (ISO-SA-27)
processing for recovery of reactor fuels, economic aspects of, 23:45497
processing for removal of cesium-137 and strontium-90, use of adsorbents in, 22:51204 (SZS-9/68, pp 14-25)
processing for safe disposal from fuel reprocessing cycles, 24:33761(T) (ORNL-tr-2320)
processing for separation of krypton and xenon, 24:7612 (ORNL-TM-2677)
processing for soil disposal, encapsulation, solidification, and vitrification methods for, 22:16813
processing Hanford B Plant process condensate by ion exchange, 25:21077 (BNWL-1544)
processing high-level liquid, equipment design for, 21:22120
processing HTGR, burn-leach method for, 23:356 (ORNL-4272, pp 72-91)
processing in Euratom countries, catalog of facilities for, 22:4303 (EUR-3568)
processing in German Democratic Republic, 22:40207
processing in Netherlands, 22:33505
processing in Poland, review on, 25:214 (INR-1165)
processing intermediate-level in the UKAEA, 21:266
processing liquid effluents and solidification of sludges, methods and equipment for, at CEN, France, 21:261
processing liquid, by evaporation, efficiency of, 22:27851 (CEA-N-816, pp 66-79)
processing low- and intermediate-level, 22:47201 (BNWL-723)
processing low- and intermediate-level concentrations of, methods for, 23:2374 (LA-DC-10005)
processing low- and intermediate-level, methods and equipment for, in the UAR, 21:264
processing low-level at AERE, Harwell, 21:269
processing low-level, by ion exchange, 22:152
processing methods for disposal, 22:51217
processing of, 24:19044 (IBK-832)
processing of, 22:30588(R) (HMI-B-66)
processing of, 24:44056 (BNL-50205, pp 78-92)
processing of americium-241-containing aqueous, by coagulation, 24:19070
processing of aqueous, at Gundremmingen Power Reactor, 24:41394(T) (NP-tr-1915)
processing of aqueous, from nuclear power plants by coagulation and flocculation under control of zeta potential, 25:34696 (SZS-3/71 (pp 2-19))
processing of aqueous, from uncontained irradiated fuel element basins by sorption of impurities on Cecacite, 25:21117
processing of complexing-agent-containing, 23:9507 (EUR-4192)
processing of complexing-agent-containing effluent, 25:21125
processing of contaminated ion-exchange resins, 22:18909(P)
processing of detergent-containing, 23:9507 (EUR-4192)
processing of detergent-containing effluent, 25:21125
processing of Eurochemic, development of neutralization self-solidification method for, 24:44068 (NP-18306)
processing of fuel fabrication scrap, flow-sheet for plutonium partitioning from uranium in, 25:41888 (ARH-SA-78)
processing of fuel scrap, fluidized-bed process for, 25:46547(P)
processing of gaseous, by thermal diffusion, 21:10441(P)
processing of gaseous, design of equipment for, 21:8799 (ORNL-TM-1569)
processing of gaseous, for krypton and xenon recovery, 23:29125
processing of high-level, 23:11595 (BNWL-814)
processing of high-level aluminum fuel- and zirconium fluoride-types, operation of Waste Cclcining Facility for, 24:27316 (IN-1344)
processing of high-level, by fluid-bed calcination, 22:23109
processing of high-level, by pot calcination, 21:45202 (ORNL-4145, pp 104-29)
processing of high-level, by pot calcination, 23:13828(R) (ORNL-TM-2294)
processing of high-level, for fuel reprocessing facilities, 23:38040
processing of high-level, from fuel reprocessing, 25:8324(T) (ORNL-tr-2406)
processing of ICPP, by evaporation and ion exchange, 25:34682 (CONF-710509-1)
processing of intermediate- and low-level, at Hanford, improved methods for, 24:46295 (ARH-SA-74)
processing of intermediate-level, at Eurochemic by incorporation into bitumen, design of facilities for, 25:21372 (CEA-R-3735)
processing of intermediate-level, by incorporation in asphalt, polyethylene, or other organic matrices, 23:13828(R) (ORNL-TM-2294)
processing of intermediate-level, description of ORNL system for, 21:34428 (ORNL-TM-1832)
processing of intermediate-level, design and installation of evaporator equipment for waste—asphalt, 23:9682 (ORNL-TM-1637)
processing of iodine-131-containing, at Hungarian Isotope Production Plant, 23:29074
processing of ion exchange resin regenerant, by preferential flotation method, 24:2271
processing of liquid and solid, activities in, 23:17516 (JAERI-5017, pp 83-8)
processing of liquid tritium-containing, at Los Alamos, N. M., design of facilities for, 25:21369
processing of liquid, at Ispra, Italy, plant and equipment modifications for, 24:25248 (EUR-4454)
processing of liquid, at plutonium production centers in France, 25:21120
processing of liquid, bacterial, evaporation, ion exchange, and precipitation methods for, 24:11650 (CEA-N-1148, pp 81-97)
processing of liquid, bacterial, evaporation, ion exchange, and precipitation methods for, 24:22722(T) (ANL-Trans-797)
processing of liquid, by electrodialysis using ion exchange membranes, 23:49923(P)
processing of liquid, by ion exchange on sulfonated bitumen, 24:27211(P)
processing of liquid, "CIES" pilot plant for, 22:4253
processing of liquid, CISE plant for, 21:45229
processing of liquid, design of evaporation equipment for, 23:45498
processing of liquid, economics of combined contact-precipitation and ion-exchange plant for, 23:2382 (SZS-10/68, pp 18-42)
processing of liquid, equipment for, 24:11650 (CEA-N-1148, pp 81-97)

processing of liquid, equipment for, 24:22722(T) (ANL-Trans-797)
processing of liquid, flotation process for, 23:15953
processing of liquid, from radiological institutes, 25:57529
processing of liquid, in Purex-type plant, material accounting system for determining losses during, 24:2422 (WASH-1140, pp 75-114)
processing of liquid, phosphate glass, pot calcination, and spray solidification methods for, 23:38022 (BNWL-1083)
processing of low- and intermediate-level, at KFA, Juelich, Germany, 25:21119
processing of low- and intermediate-level, by evaporation and encasement in bitumen at Karlsruhe, Germany, 25:21124
processing of low- and intermediate-level, equipment for, 21:260
processing of low- and intermediate-level, in Chile, facility for, 25:21116
processing of low- and intermediate-level, in Norway, 25:21115
processing of low- and intermediate-level, in USSR, 25:21114
processing of low- and medium-level liquid and solid, design of radiochemical plant for, 22:51209
processing of low- and medium-level liquid, design of IEN, Rio de Janeiro facility for, 24:31648
processing of low- and medium-level liquid, JEN methods at CIES plant for, 21:10421
processing of low-activity, semiautomatic chromatographic facility for, 25:37458 (IAEA-R-341-F)
processing of low-level aqueous, 24:36354 (ORNL-4472)
processing of low-level liquid effluent, by ion exchange at Idaho Chemical Processing Plant, 25:21123
processing of low-level liquid, at West Valley Processing Plant, technical specification for facility for, 25:57512 (DOCKET-50201-87)
processing of low-level liquid, at West Valley Processing Plant, 25:10660 (DOCKET-50201-58)
processing of low-level liquid, from Japanese fuel reprocessing plants, research on, 24:10145(R) (PNCT-AR-68)
processing of low-level liquid, safety analysis of facility at West Valley for, 25:23645 (DOCKET-50201-66)
processing of low-level solid, at Ispra, methods for, 24:25253
processing of low-level, by sorption on ion exchangers of sulfonated bitumen at Mol, Belgium, 25:21126
processing of low-level, for disposal, equipment and facility for, 22:21300
processing of low-level, in USSR by compacting and incineration, 25:21122
processing of low-level, use of ferric hydroxide in, 22:33478 (AERE-R-5724)
processing of Masurca plutonium fuel element, 23:8129 (EUR-3663)
processing of medium-level, 22:45146 (NP-17588)
processing of medium-level liquid, from production of radioisotopes, 23:24287
processing of medium-level liquid, neutralization self-solidification process for, 24:22929 (NP-18181)
processing of medium-level, by neutralization self-solidification, 22:23100 (NP-17234)
processing of moderately and weakly active, methods for, 22:25449 (CEA-N-616, pp 72-85)
processing of nuclear power plant, developments in, 25:39589
processing of off-gas, sorption methods for, 24:27214
processing of organic chlorine-containing, by fractional distillation, 23:33246 (CEA-R-3778)
processing of plutonium production plant, fission product conversion and encapsulation facility for, 22:8260
processing of plutonium scrap, fluidized-bed fluoride volatility methods for, 25:46555
processing of plutonium scrap, nuclear materials management in, 24:44224 (BNWL-1399)
processing of plutonium-contaminated liquid, methods and safety at Los Alamos plant for, 25:54708 (CONF-710401-, pp 369-85)
processing of Purex, 23:13822 (HW-71789)
processing of Purex Plant gaseous, for iodine-131 separation, performance of silver reactors for, 25:2416 (ARH-SA-67)
processing of Purex Plant gaseous, for iodine-131 separation, design of equipment for, 25:34785
processing of Purex, concentrator corrosion rates in, 23:13823 (HW-75732)
processing of Purex, development of evaporator and melter units for, 23:40913 (BNL-50149, pp 123-52)
processing of Purex, development of phosphate glass and spray solidification methods for, 21:28183(R) (BNWL-434)
processing of Purex, development of pot and spray solidification methods for, 22:21297(R) (BNWL-677)
processing of Purex, development of pot and spray solidification methods for, 22:47306(R) (BNWL-771)
processing of Purex, development of pot, phosphate glass, and spray solidification methods for, 21:28182 (BNWL-410)
processing of Purex, development of pot, spray, and phosphate glass methods for, 21:43216(R) (BNWL-507)
processing of Purex, development of spray solidification method for, 23:544 (BNWL-824)
processing of Purex, effects of radiation, reflux, and solution composition on, 23:13820 (HW-63453)
processing of radionuclides of short or medium half-life, 22:27886
processing of simulated Darex, Thorex, and Purex, 21:131 (ORNL-TM-1584)
processing of sludge-type, by precipitate flotation method, 25:21153
processing of solid, at Saclay, France, use of decay rate in, 23:43491 (CEA-R-3731)
processing of solid, design and operation of Karlsruhe FERAB facility hot cells for, 24:25183
processing of solid, Harwell methods for decontamination of equipment for, 25:44578
processing of solid, in France, equipment and methods for, 23:40966(T) (BNWL-tr-38)
processing of solid, in Karlsruhe hot cells, design of heavy duty electric-powered manipulator for use in, 24:25184
processing of solutions from nuclear power plants by ion exchange using cellulose phosphate, 23:38064
processing of solutions of, by conversion to glass, effects of fission product heat on FINGAL process for, 24:19039 (AERE-R-5268)
processing of solutions or slurries of, for disposal, calcine method for, 24:5738(P)
processing of uranium-containing, for neptunium and plutonium recovery, 21:21862(R) (NLCO-996)
processing of VAK Reactor water, analysis of equipment and procedures for safe, 22:7825
processing of, 1968 Belgian activities in, 24:9079(R) (NP-18052)
processing of, at BNL and ORNL, review of, 21:263
processing of, at CEN, Belgium, 21:267
processing of, at Karlsruhe fuel reprocessing plant, 21:32231
processing of, at the Cadarache Nuclear Studies Centre, France, 21:257
processing of, chemistry of fission products in, 24:38815
processing of, containing zirconium fluoride or aluminum nitrate at ICPP Waste Calcining Facility, 25:41893 (IN-1474)
processing of, corrosion of carbon steel in, 22:152
processing of, decomposition of peroxydisulfates in, 23:45367 (JUL-591-DE)
processing of, deposition of ruthenium in filter pores in, 23:13824(R) (IN-1201)
processing of, description of plant at The Hague for, 22:45148(T) (ORNL-tr-1785)
processing of, design of Alpheus plant at Bucharest for, 24:46460
processing of, design of facilities at Kyoto University, Japan for, 25:37461 (KURRI-TR-80)
processing of, design of mist removal devices in evaporation-condensation processes, 22:6372
processing of, design of nozzle for heated fluidized bed, 21:15989
processing of, design of pot solidification equipment for, 25:32034(R) (BNWL-1557)
processing of, economic aspects of plants for, 24:36538 (ORNL-4451)
processing of, effects of turbidity on water recycle, 22:2323(R) (ORNL-TM-1887)
processing of, engineering, economic, and safety evaluations of methods for, 24:269 (ORNL-4422, pp 120-53)
processing of, evaluation of evaporation method for, 21:30511
processing of, evaluation of methods for, 25:32067
processing of, flowsheet for precipitation and solidification, 23:38224
processing of, fluidized-bed techniques in, 23:47593
processing of, for burial in asphalt, design and cost estimate of plant for, 21:10593 (ORNL-TM-1697)
processing of, for ruthenium separation by cellulose derivative—bentonite flocculation, 21:6005
processing of, from aqueous reprocessing of fuels, economics of, 25:2316 (ORNL-4572, pp 98-108)
processing of, from decontamination of organic coolants by bacteriological pretreatment, 25:2327
processing of, from fast reactors, economics and facilities for, 21:4592 (ANL-7125, pp 107-18)
processing of, from fuel reprocessing plants, 24:36365
processing of, from Japanese power reactors, methods for, 21:14303
processing of, from KRB boiling-water reactor, 24:7490
processing of, heat transfer coefficients in plant for, 22:37854
processing of, IAEA contracts for research on, 25:37826 (STI/DOC-10/125)
processing of, in Bulgaria, Hungary, the USSR, and Czechoslovakia, 21:271
processing of, ion exchange method for, 23:2386
processing of, ion-exchange method for, 23:21793(P)
processing of, krypton removal from off-gas streams by selective absorption using fluorocarbons, 25:215 (K-L-6257)
processing of, method of selective fixation for, 21:19752(P)
processing of, methods and equipment for, in the USSR, 21:265
processing of, methods for semi-continuous, at ORNL, 21:131 (ORNL-TM-1584)
processing of, operation of Idaho Waste Calcining facility for, 25:34690(R) (IN-1457)
processing of, osmotic cell and membrane for, 24:48161(P)
processing of, platinum high-temperature crucibles for, 23:6206
processing of, pot-solidification, 22:6381
processing of, progress in conditioning methods for, in France, 25:51564 (A/CONF.49/P-621)
processing of, properties of ion exchange materials for, 21:4476 (AECL-2546)
processing of, radiant spray calciner and melter for, 22:6381
processing of, recovery of plutonium-238 in, 25:18492 (ANL-7709)
processing of, research progress in, 25:26328(T) (ORNL-tr-2410)
processing of, research progress on, 23:21774(R) (BNWL-1003)
processing of, research progress on, 25:54715 (ORNL-4682, pp 95-113)
processing of, research progress on, 22:4231(R) (IN-1087)
processing of, research progress on, 22:6313 (HMI-B-53)
processing of, review of, 22:27878
processing of, review of developments in, 24:19082
processing of, review of experience in Belgium on, 23:348 (NP-17579, pp VI.7-8)
processing of, review of methods for, 23:40832
processing of, review of methods for, 23:346 (LA-DC-10006)
processing of, review of methods for, 23:38225
processing of, review of methods for, 23:40837
processing of, review of methods for, 21:14311
processing of, review of research in USSR on, 22:2178 (UJV-1899)
processing of, review of techniques in Federal Republic of Germany for, 22:30659
processing of, siting of plants for, 24:319 (ORNL-4422, pp 326-8)
processing of, sorption of organic compounds and plutonium on bed of activated carbon in, 23:40794 (BNWL-1109)
processing of, strontium removal by precipitation with calcium carbonate in, 23:47603
processing of, suitability and reliability of installations for, 25:15724 (NP-18621)
processing of, technical progress review on, 22:33526
processing of, use of fission gas holdup beds in, 24:11667
processing of, use of Napolitan yellow tufa ion exchange material in, 22:35883 (EUR-3922)
processing of, use of phyllitic silicate minerals in, 25:29175 (BARC-509)
processing of, use of plate column for removal of radioactive mist in, 21:25952
processing of, use of silicate ion exchangers in, 22:139 (HMI-B-54)
processing of, use of sodium metaborate in, 25:21150(P)
processing of, use of suspension of natural sorbents coagulated by electric currents for, 21:30519
processing of, use of transformed Indian vermiculites in, 25:37455 (BARC-534)
processing of, use of vermiculite fines in two-stage, 22:23087 (BARC-315)
processing of, volume reduction by de-watering using super-decanter centrifuge in, 25:2344
processing of, xenon removal from off-gas streams by selective absorption using fluorocarbons, 25:215 (K-L-6257)
processing record for JPDR from 1963, 22:14178
processing slightly enriched uranium dioxide, design and operation of plant for, 21:30523
processing solutions of, by calcination, 22:27849 (CEA-N-816, pp 415-80)
processing systems at water cooled reactors, review of, 25:18043
processing to permit long-term storage, 23:47581 (ARH-SA-51)
processing using coated diatomite in filters, 22:35910
processing with ion exchangers derived from sawdust, 22:6374
processing with saponite-type montmorillonite for separation of cesium-134, 25:10793 (BARC-506)
production by 1980, effects of nuclear fuel reprocessing on, 23:38232
production of alpha-contaminated solid, by reactor fuel fabrication and reprocessing plants, predictions to year 1990 of, 25:13188 (BNWL-B-34)
promethium-147 separation from process, use of spectrophotometers as analytical and control mechanism for, 21:19892 (BNWL-337)
properties of high-level solid, from Hanford Waste Solidification Demonstration Program, methods for determination of, 25:354 (BNWL-1425)
properties of simulated HTGR-Thorex solutions of, as function of boildown and temperature, 23:356 (ORNL-4272, pp 72-91)
properties of solidified high-level, 23:2541 (BNWL-820)
properties of solidified, under simulated storage conditions, 21:10585 (CONF-660208-, pp 642-58)
pump for concentrated, design of screw-type, 25:8457
purification of aqueous, effects of length of use on properties of resin for ion exchange, 21:19731
purification of gaseous, method for, 23:38227(P)
purification of hydroxide slurries in, by freeze drying process, 23:11622
purification of water solutions of, equipment and method for, 22:18904
radiation effects on accumulation of sludge layers during storage of, 23:13820 (HW-63453)
radiation monitoring of, at Research Reactor Institute of Kyoto University during 1968, 25:4508 (KURRI-TR-63)
radiation monitoring of, from Ashford, N. Y. fuel reprocessing plant, 1966 and 1967, 24:2322
radioactivity from, in Tennessee River System, 21:3174(R) (ORNL-3941)
radioactivity of stack-disposed airborne, method for calculating, 24:3052 (IN-1310, pp 1-30)
radioisotope content of gaseous, from fast and thermal reactors, relation between burnup and heavy, (E), 25:21321
radiolysis of liquid, during bedrock storage, self-, 25:57459 (DP-1264)
reduction of, equipment for volume, 21:1492
release by nuclear facilities, environmental pollution from, 25:37045 (NP-18842)
release from gas cooled power reactors, 25:53981 (A/CONF.49/P-505)
release from nuclear power plants in Germany, measurements during 1961 to 1970 of, 25:53979 (A/CONF.49/P-396)
release from nuclear power plants in Germany, safety aspects of, 25:53980 (A/CONF.49/P-399)
release from nuclear power plants, long-term ecological effects from, 25:12763
release from nuclear power plants, sources and control of, 25:31531
release from power reactors in India, monitoring and control of, 25:53982 (A/CONF.49/P-536)

release from power reactors, effects on environment of, 25:56981
release from power reactors, environment effects of, 25:28527 (DUN-SA-166)
release from reactors, effectiveness of control measures for, 24:9798 (CONF-690303-, pp 133-43)
release in water, determination of various radioisotopes for control of, 22:18722
release limits for gaseous, derivation for power reactors of, 25:56980
release of gaseous, to air at Hanford Purex Plant, reclamation of filter in system for, 22:45139 (ARH-SA-9)
release of gaseous, to atmosphere from nuclear installations, evaluation of environmental contamination from, 24:25252 (SZS-17/69)
release of liquid and gaseous, from power reactors, 25:56978
release of liquid, from West Valley fuel reprocessing plant, 25:54753
release of, safety limits for, 25:23224
release to atmosphere from fuel reprocessing plant, use of tritium as tracer for, 23:38114
release to atmosphere of, environmental contamination from, 21:10468
release to atmosphere of, environmental contamination from, 21:19883
release to environment, regulatory controls on, 24:22975
release to oceans, review of, 21:8476(T) (AEC-tr-6641, pp 72-7)
removal from gas streams, honeycomb activated carbon filter for, 25:28829(P)
removal of, from surface waters by exchange and sedimentation, 21:8669(R) (CONF-660507-34)
retention and sorption by Columbia River sediments, effect of sea water on, 21:39048
retention capacity in Hanford cribs, effects of prior disposal of uncontaminated solutions on, 23:43490 (BNWL-1163)
rhodium recovery from, 23:28979
ruthenium-106 content of liquid, environmental contamination from, 24:27311 (CEA-CONF-1430)
ruthenium-107 content of liquid, environmental contamination from, 24:27311 (CEA-CONF-1430)
sampling of gaseous, design of equipment for, 21:36221
sampling of solidified, under storage conditions, development of drill unit for, 21:28182 (BNWL-410)
sampling of solidified, under storage conditions, development of drill unit for, 21:28183(R) (BNWL-434)
separation from water, evaluation of materials for ion-exchange, 22:33552
separation from water, survey of methods for, 22:8173 (SZS-13/67)
separation of alpha and beta sources from, by coagulation with ferric hydroxide, 25:57556
separation of aluminum nitrate from redox, 22:152
separation of americium and curium from Redox Shippingport, by solvent extraction using TBP, 23:337 (BNWL-CC-956)
separation of americium from ARHCO Plutonium Reclamation Facility, by solvent extraction using dibutyl butylphosphonate, 25:6389 (BNWL-CC-1503)
separation of americium from, at Hanford Plutonium Reclamation Facility, 21:145 (ISO-SA-7)
separation of americium, curium, and promethium from Shippingport reprocessing, by solvent extraction using TBP and D2EHPA successively, 24:5704 (ARH-1354)
separation of barium, cesium, iodine, strontium, and yttrium from aqueous, clarifier-contactor for, 25:23653 (UJV-2345.Ch.)
separation of boron from liquid, 21:17810(P)
separation of boron-10 from, methods for, 21:26877 (TID-23704)
separation of cerium and strontium from, 23:38040
separation of cerium, cesium, and strontium from, 21:28057 (SECA-085)
separation of cerium, cesium, and strontium from, using surface-active agents, 22:25449 (CEA-N-616, pp 72-85)
separation of cerium-141 and strontium-89 from solutions of, effects of complexing agents, detergents, and surface-active agents on, 24:14031
separation of cerium-144, cesium-137, and strontium-90 from, by ion exchange using vermiculite and zeolites, 23:18259(R) (PNCT-AR-67)
separation of cesium and strontium from, 23:47581 (ARH-SA-51)
separation of cesium and strontium from, 22:152
separation of cesium and strontium from low-level, by evaporation, effects of pH on, 23:13848
separation of cesium and strontium from low-level, by ion exchange, 21:8401
separation of cesium from aqueous, by ion exchange, 22:16669
separation of cesium from low-level, by precipitation with cupric and ferric ferrocyanides, 24:14010
separation of cesium from Purex, by ion exchange, 24:27183 (ARH-1639)
separation of cesium from Purex, unidirectional loading, scrubbing, and elution of zeolite columns for, 22:37828 (BNWL-732)
separation of cesium from simulated, by ion exchange on titanium phosphate, 22:42834
separation of cesium from, by ion exchange, 23:11617
separation of cesium from, by ion exchange on vermiculite column, 25:37463 (KURRI-TR-83)
separation of cesium from, by precipitation as phosphotungstate, 21:32224 (EUR-3473.f)
separation of cesium from, by sorption on magnetic materials, 21:12618
separation of cesium from, properties of phyllitic minerals as ion exchangers for, 25:23643 (BARC-518)
separation of cesium iodides from, 22:8166 (BNL-50085)
separation of cesium, ruthenium, and strontium from liquid, precipitation methods for, 23:2375 (LA-DC-10007)
separation of cesium-134 from simulated, by sorption by Inshas sands, 24:19077
separation of cesium-137 and strontium-90 from, by ion exchange, 22:25449 (CEA-N-616, pp 72-85)
separation of cesium-137 from acid, ion-exchange, 22:6366 (EUR-3625)
separation of cesium-137 from acid, use of phosphate exchanger for, 21:6165 (BNWL-270)
separation of cesium-137 from alkaline condensate, by ion exchange, 23:13810 (BNWL-829)
separation of cesium-137 from Purex, by ion exchange using DECALSO, 21:30491 (BNWL-288)
separation of cesium-137 from solutions of, method for, 22:33549(P)
separation of cesium-137 from, by ion exchange using zeolite, 23:38086
separation of cesium-137 from, by ion exchange using iron ferrocyanide resin, 22:40201
separation of cesium-137 from, by solvent extraction, review on organic compounds for, 22:16651
separation of cesium-137 from, by sorption on sericite, 22:42827
separation of cesium-137 from, efficiency of zeolite prefilter for, 25:18621 (DP-1245)
separation of cesium-137 from, filtration method for, 21:17709
separation of cobalt from, by sorption on magnetic materials, 21:12618
separation of cobalt-58 and cobalt-60 from solutions of, by precipitation as cobalt sulfate, 25:32036 (CEA-N-1419, pp 91-113)
separation of condensed phosphates from, 24:264 (KFK-917)
separation of condensed phosphates from, precipitation methods for, 24:20854(T) (ORNL-tr-2292)
separation of enriched uranium from, 22:37830 (CEA-N-856, pp 71-7)
separation of fission products and transuranium elements from, review on economics and methods for, 24:27195
separation of fission products from, 24:22750
separation of fission products from calcined, by leaching, 21:5991(R) (IDO-14680)
separation of fission products from intermediate- and low-level liquid, flotation method for, 24:36351 (KURRI-TR-73)
separation of fission products from liquid, flotation method for, 23:2388
separation of fission products from, by solvent extraction, 22:33526
separation of fission products from, in seawater, coagulation methods for, 24:31456
separation of fluorides from solutions of, by precipitation and sorption on aluminum oxide columns, 23:47592
separation of highly active fission products from, 22:48911
separation of iodine and rare gases from gaseous, review of methods for, 23:40979
separation of iodine from aqueous, evaluation of ion exchangers for, 25:23654 (UJV-2360.Ch.)
separation of krypton and xenon from gaseous, by sorption in fluorocarbons, 24:41390 (K-1780)
separation of krypton and xenon from, by sorption on activated carbon, 24:20851 (NACAR-10004)
separation of krypton from gaseous, using dimethyl silicone rubber membrane, 23:29060
separation of lead from aged polonium-210 heat source by ion exchange, 23:43291(R) (MLM-1603)
separation of melter off-gas condensates from Purex, by distillation following solidification by phosphate glass process, 24:13992 (BNL-50184)
separation of mercury from aqueous, by reduction with hydrazine, 23:40848(P)
separation of mercury from liquid, by electrochemical methods, 23:13824(R) (IN-1201)
separation of metallic constitutents from organic solutions of, 22:10351(P)
separation of neptunium and plutonium from acidic aqueous, 21:43045(P)
separation of neptunium and plutonium from Purex acid sludge solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 22:21154 (BNWL-583)
separation of neptunium and plutonium from Purex, by solvent extraction using dibutyl butylphosphonate, 23:15922 (BNWL-702)
separation of neptunium and plutonium from solutions of, by solvent extraction using tridodecylamine, 24:48158
separation of neptunium from solutions of, containing plutonium and uranium by reduction and solvent extraction using tridodecylamine, 24:11654 (CEA-N-1148, pp 273-96)
separation of neptunium-237 and plutonium from, by solvent extraction using tridodecylamine, 21:17718
separation of noble gas fission products from gaseous, methods for, 25:4260 (CEA-Bib-184)
separation of palladium from solutions of, by solvent extraction in packed columns, 23:31395 (ARH-SA-28)
separation of palladium from, by retention on column of Aliquat-336, 24:261 (ARH-1346)
separation of palladium, rhodium, and technetium from aged Purex, by anion exchange, 23:33244 (ARH-733)
separation of palladium, rhodium, and technetium from, by ion exchange on strongly basic anion exchange resins, 23:43379 (ARH-1279)
separation of plutonium and uranium from, in Plutonium Reclamation Facility by coextraction partition, 24:27182 (ARH-1343)
separation of plutonium from, 23:41609
separation of plutonium from aqueous solutions of, by solvent extraction using tridodecylamine, evaluation of alkylbenzene diluents for, 25:32037 (CEA-N-1419, pp 235-56)
separation of plutonium from incinerator ash, evaluation of methods for, 25:57525 (RFP-1723)
separation of plutonium from liquid and solid process, methods for, 22:8200
separation of plutonium from solutions of, by solvent extraction using tridodecylamine, effects of diluent on, 23:40787(T) (AEC-tr-7076, pp 20-72)
separation of plutonium from ZPPR, 23:21778(R) (NUMEC-1661-3)
separation of plutonium from ZPPR unmeasurable, 22:47203(R) (NUMEC-1661-2)
separation of plutonium from, by fluoride volatility process, 22:6369 (RFP-1048)
separation of plutonium from, continuous incineration and leaching methods for, 23:47580 (ARH-SA-39)
separation of plutonium from, development and evaluation of methods for, 23:24276 (LA-3542)
separation of promethium from fuel reprocessing, by sorption on manganese dioxide followed by anion exchange elution, 25:29176 (BARC-516)
separation of protactinium and thorium-230 from, 25:21083(R) (MLM-1767)
separation of radioactive krypton and xenon from gaseous, by sorption in fluorocarbon solvent, 22:45144(R) (K-1745)
separation of radioisotopes from, 25:44420
separation of radioisotopes from liquid, by sorption on minerals, 24:20843 (BARC-454)
separation of radioisotopes from solutions of, by solvent extraction using 4,4'-methylenediantipyrine, 25:21092
separation of radioisotopes from waters of, by phosphate precipitation method, 21:8405
separation of radioisotopes from, by flotation methods, 23:24291
separation of radioisotopes from, by solvent extraction, 22:16694
separation of radionuclides from solidified, by elution, theoretical considerations of, 22:51079
separation of radionuclides from vitreous, 24:2266(R) (HMI-B-84)
separation of radionuclides from, by precipitation, 22:27886
separation of radioruthenium from, by sorption, 22:36018
separation of rhodium from Purex, by reduction on tin or zinc, 24:33753 (ARH-1455)
separation of ruthenium from aqueous, by volatilization, 22:51064
separation of ruthenium from effluents of, precipitation method for, 22:37842(P)
separation of ruthenium from solutions of, by sorption on activated carbon, 24:39036
separation of ruthenium from, by deposition on metal chips, 23:6203
separation of ruthenium from, by pH adjustment and treatment with zeolites, 25:41913(P)
separation of ruthenium from, by precipitation using periodic acid, 21:34315 (CEA-R-3231)
separation of ruthenium-106 and strontium-90 from liquid, by ion exchange using organic resins, 25:32036 (CEA-N-1419, pp 91-113)
separation of solids from liquids in, method and apparatus for, 24:16630(P)
separation of strontium from Purex, by precipitation with lead sulfate, 22:18874
separation of strontium from, by ion exchange and precipitation, 22:37661
separation of strontium from, by precipitation with lead sulfate, 21:43025 (UJV-1763)
separation of strontium from, by solvent extraction using D2EHPA, antagonistic and synergistic effects of organic phosphorus compounds on, 22:42807 (BNWL-759)
separation of strontium from, by sorption on magnetic materials, 21:12618
separation of strontium from, efficiency of controlled reflux for foam, 21:30508
separation of strontium from, review on methods for, 23:24278 (UJV-2119-Ch)
separation of strontium from, use of surface-active agents in, 21:28052 (NP-16746)
separation of strontium from, using strontium carbonate, 22:27851 (CEA-N-816, pp 66-79)
separation of strontium from, using zeolites, 22:37834 (EUR-3452(Vol.2))
separation of strontium, cesium, and rare earths from, solvent extraction process for, 21:30526(P)
separation of strontium-90 from liquid, by ion exchange using organic resins, 24:22722(T) (ANL-Trans-797)
separation of strontium-90 from liquid, by ion exchange using organic resins, 24:11650 (CEA-N-1148, pp 81-97)
separation of thorium from leach solutions by precipitation with calcium oxalate, effects of acidity and oxalic acid on, 23:40853
separation of thorium from, by solvent extraction using trioctylphosphine oxide, 23:43291(R) (MLM-1603)
separation of uranium and plutonium from Zirflex-type, by peroxide precipitation, 21:24100(P)
separation of uranium from aged plutonium-238 materials by ion exchange and oxalate precipitation methods, 23:43291(R) (MLM-1603)
separation of uranium from copper leach solution of, by ion exchange, 22:25485
separation of uranium from fabrication scrap, 24:33764 (Y-MA-3582)
separation of uranium-234 from, 25:6399(R) (MLM-1751)
separation of uranium-234 from raffinate solutions of, by solvent extraction or ion exchange, 24:27189(R) (MLM-1612)
separation of xenon from gaseous, using dimethyl silicone rubber membrane, 23:29060
settlement basin for, siting of 800 MW Hungarian power reactor, 21:30184
shipment from Juelich research reactors, administrative and legal problems of, 24:36766 (JUL-603-ST, pp 119-28)

shipping containers for, design and testing of, 21:16087 (SwRI-1262-4)
shipping low-level solid, equipment and method for, 23:33367(P)
shipping of calcined solid, design and safety of lead- and water-shielded containers for, 25:4278
shipping of drum-contained liquid, design and performance of ATMX-600 railcar for, 24:14228 (RFP-1411)
shipping of high- and intermediate-level, design of shielded containers for, 25:48818 (CONF-710801-(Vol.1), pp 195-208)
shipping of rare gas fission products from reprocessing of spent fuels, design of containers for, 24:5716
shipping of solid, from nuclear power plants, equipment, methods, and regulations for, 25:39695
shipping of solidified high-level, design and safety evaluation of containers for, 25:8451 (ORNL-TM-2971)
shipping of specialized, experience in, 25:48894 (PB-189506, pp 120-5)
shipping of, compositions, economics, and equipment for solidification for, 25:48856 (CONF-710801-(Vol.2), pp 785-91)
shipping of, criticality safety of Department of Transportation No. 6000 shielded container for, 24:16817 (MLM-1714)
shipping of, design and testing of disposable shielded containers for, 24:19184 (MLM-1660)
shipping of, design of lead shielded casks for, 22:291
shipping of, design of lead shielded container for, 25:361(P)
shipping of, design of ORNL Dry Hole Charger container for, 23:17739
shipping of, development and engineering evaluation of ATMX-600 railroad car for, 25:48829 (CONF-710801-(Vol.1), pp 399-413)
shipping of, development of ATMX-500 railroad car for, 25:48828 (CONF-710801-(Vol.1), pp 380-98)
shipping of, development of packaging and safety system for, 25:48827 (CONF-710801-(Vol.1), pp 356-79)
shipping of, safety evaluation of ATMX-600 railroad car for, 25:48859 (CONF-710801-(Vol.2), pp 822-32)
shipping of, testing of concrete containers for safe, 23:587 (CONF-681001-, pp 624-36)
shipping to Lyons, Kansas, thermal cooling method for containers and shielding for, 25:57706 (ORNL-TM-3545)
solidification and long-term storage of high-level, 21:14409
solidification and long-term storage of, symposium on, 21:10564 (CONF-660208)
solidification and storage as salt cakes, safety of in-tank solidification method for, 24:14224 (BNWL-1194)
solidification and storage of high-level, economics of, 23:9678 (CONF-671072-1)
solidification and storage of, at French fuel reprocessing plants, 25:6416
solidification and storage of, at Hanford, development of methods for in-tank, 24:46454 (ARH-SA-64)
solidification by calcination, 22:33526
solidification by incorporation in basalt, 24:27187(T) (BNWL-tr-50)
solidification by incorporation in bitumens, efficiency and safety of, 24:11663
solidification by phosphate glass process in Italy, 25:34711
solidification by phosphate glass process, engineering studies on, 24:13993 (BNWL-1185)
solidification by pot calcination process, 23:11595 (BNWL-814)
solidification by pot vitrification flow control in, 21:12615(T) (ORNL-tr-1445)
solidification by precipitation of fluorides using lime and evaporation, 25:21139(P)
solidification for storage of, radiation stability testing of polymers for, 23:21922 (CNAEM-61)
solidification in basalt, 22:16660
solidification in bitumen for storage, worldwide development of methods for, 24:46456 (CEA-R-3982)
solidification in bitumens, method for, 25:37568
solidification in bituminous material for disposal, 22:21300
solidification in bituminous materials, design of pilot-scale equipment for, 25:23756 (UJV-2396.Ch.)
solidification in cement for disposal in seawater, 25:54979
solidification in concrete blocks for burial, 22:21300
solidification in phosphate glass, 22:33526
solidification in sodium borate, description of process for, 23:26496
solidification of, 22:6381
solidification of aqueous solutions and suspensions of, 25:10682(P)
solidification of boron-containing, by crystallization, 25:21150(P)
solidification of high-level aqueous, development of pot processes for, 21:10572 (CONF-660208-, pp 95-119)
solidification of high-level liquid, compressive strength of concretes used for, 22:4419
solidification of high-level liquid, compressive strength of concretes used for, 22:43018(T) (NSJ-tr-113)
solidification of high-level liquid, design of WSEP facility for, 23:17725 (BNWL-968)
solidification of high-level liquid, design verification testing of equipment for spray, 23:43489 (BNWL-1117)
solidification of high-level liquid, equipment and methods for, 24:22931
solidification of high-level liquid, from fuel reprocessing in US, methods for, 25:6527
solidification of high-level liquid, status of demonstration program for, 25:4276
solidification of high-level Purex type, use of mixed phosphate, borate, and silicate melts for, 21:19879 (BNWL-373)
solidification of high-level, by fluidized bed calcination, 25:18630
solidification of high-level, by incorporation in basalt or glasses, 24:27186(T) (BNWL-tr-48)
solidification of high-level, by pot, spray, and phosphate glass processes, 25:41905
solidification of high-level, by spray process, 24:50443 (BNWL-1391)
solidification of high-level, by spray solidification process, 25:48567 (BNWL-1583)
solidification of high-level, description and evaluation of methods for, 23:26497
solidification of high-level, evaluation of materials for, 21:25939
solidification of high-level, in basalt, effects on basalt properties, 25:15873
solidification of high-level, in glass and molten basalt, 21:34430
solidification of high-level, in glass and molten basalt, 24:27310(T) (BNWL-tr-49)
solidification of high-level, status of fluidized bed, phosphate glass, pot calcination, and spray methods for, 23:2541 (BNWL-820)
solidification of high-level, summary of US research and development for, 23:2541 (BNWL-820)
solidification of high-level, testing of phosphate glass method for, 25:23752 (BNWL-1541)
solidification of high-level, treatment of low- and intermediate-level condensates from, 22:47201 (BNWL-723)
solidification of liquid, development of phosphate glass fixation and spray calcination processes for, 24:25095(R) (BNWL-1311)
solidification of liquid, freeze drying method for, (E), 23:2542 (EUR-4047)
solidification of liquid, in asphalt, equipment and method for, 25:10799
solidification of liquid, in glass for disposal, 22:37861(P)
solidification of liquid, review of economics and efficiency of methods for, 23:40979
solidification of low- and medium-level, in concrete, vacuum method for, 24:36547
solidification of low-activity aqueous, 23:15949
solidification of Purex and Redox, flow diagrams for, 22:21299
solidification of PW-4m phosphate, spray, 23:21774(R) (BNWL-1003)
solidification of simulated Purex, by glass fixation and spray calcination, 23:50089(R) (BNWL-1186)
solidification of solutions of, spray calcination equipment and procedures development for, 23:9182(R) (BNWL-754)
solidification of solutions of, spray calcination equipment and procedures development for, 23:11252(R) (BNWL-926)
solidification of solutions of, spray calcination equipment and procedures development for, 23:23935(R) (BNWL-1009)
solidification of solutions of, spray calcination equipment and procedures development for, 23:9183(R) (BNWL-816)
solidification of solutions of, spray calcine development for, 24:22423(R) (BNWL-1315-1)
solidification of solutions of, spray calciner development for, 23:2053(R) (BNWL-885)
solidification of solutions of, spray calciner development for, 23:43130(R) (BNWL-1084)
solidification of solutions of, spray calciner development for, 23:52378(R) (BNWL-1187)
solidification of sulfate-free PW-1, spray, 23:21774(R) (BNWL-1003)
solidification of, at Hanford, electric immersion heater failures in, 25:39671 (ARH-1381)
solidification of, bitumen coating process for, 21:10576 (CONF-660208-, pp 375-86)
solidification of, compositions, economics, and equipment for, 25:48856 (CONF-710801-(Vol.2), pp 785-91)
solidification of, computer simulation of WSEP facility off-gas system for, 25:6517 (BNWL-SA-3008)
solidification of, design verification testing of processes for, 21:10580 (CONF-660208-, pp 513-25)
solidification of, developments in fluid-bed and pot calcination and glass fixation methods for, 23:17542
solidification of, evaluation of atomizing nozzles for spray, 23:43488 (BNWL-1066)
solidification of, evaluation of methods for, 21:10579 (CONF-660208-, pp 447-512)
solidification of, evaluation of phosphate glass, spray, and pot calcination systems for, 24:41384 (BNWL-1393)
solidification of, fluidized bed calcination method for, 21:10584 (CONF-660208-, pp 623-41)
solidification of, Japanese research studies on, 25:51607 (A/CONF.49/P-250)
solidification of, method for, 22:33548(P)
solidification of, physical properties of glasses used in, 21:10582 (CONF-660208-, pp 566-84)
solidification of, pot calcination process for, (E), 21:10574 (CONF-660208-, pp 301-25)
solidification of, pot, spray, and phosphate glass methods for, 24:4345 (BNWL-1073)
solidification of, processes for, 22:21169
solidification of, research progress on, 24:9421(R) (BNWL-1263)
solidification of, ruthenium volatilization in, 23:21774(R) (BNWL-1003)
solidification of, spray, pot, and continuous glass phosphate methods for, 21:32351
solidification of, stability of glasses used in, 21:10583 (CONF-660208-, pp 585-605)
solidification processes for high-level aqueous, 21:131 (ORNL-TM-1584)
solidification processes for, description of PW-1 and PW-4m, 23:4301(R) (BNWL-894)
sorption by soils, factors affecting, 22:43233
sorption from aqueous solutions by humic acid from oxidized coal, 22:12426
sorption from Fast Flux Test Facility off-gases, method for calculating efficiency of beds for, 25:18561 (CONF-700816-(Vol.1), pp 216-23)
stability of container-stored high-level solidified, design of equipment and facilities for evaluating, 23:11737 (BNWL-832)
stack disposal of gaseous, meteorological parameters for short period, 24:21185(R) (JAERI-5021)
standardization of categories for, 24:25250 (STI/DOC-10/101)
standards for U.S. reactors, in effluents from, 24:33215
standards for, U.S. reactors, in effluents from, 24:33216
storage and disposal in salt formation cavities, feasibility of, 23:2548
storage and disposal of, British regulations for, 21:39401 (NP-16887)
storage and disposal of, comparison of methods for long-term, 21:10566 (CONF-660208-, pp 17-29)
storage at Barnwell Nuclear Fuel Processing Plant, 24:31438 (DOCKET-50332-12)
storage at Eurochemic plant, 22:45146 (NP-17588)
storage at French nuclear center in Hague, relation of medical problems of personnel to, 25:57978
storage at La Hague, France, description of methods for, 25:21364
storage container for, design of releasable closure for, 22:8292(P)
storage facilities for, within Euratom countries, siting of, 22:51201(T) (ORNL-tr-1973)
storage facilities for, within Euratom countries, siting of, 22:25628 (EUR-3664)
storage facility for, use of polyethylene cover in ground, 22:16806
storage in caves in clay soils, 24:14231
storage in cylinders of solid, computer program for calculating internal temperature distribution during, 23:11713 (ORNL-4345)
storage in cylindrical tanks, maximum temperature and flow distribution due to free convection during, 24:19155
storage in Czechoslovak limestone mine, evaluation of, 22:36019
storage in salt deposits, stored energy effects of, (E/T), 25:37563 (ORNL-TM-3403)
storage in salt mine, effects of heat, radiation, and stratigraphy on, 22:51064
storage in salt, instrumentation used for Project Salt Vault, 21:34521 (ORNL-4091, pp 91-101)
storage in underground chimneys created by nuclear explosions, feasibility studies of, 21:39072 (PNE-3005)
storage in underground tanks of liquid, equipment and methods for in-tank photography of processes during, 23:40965 (ARH-1206)
storage of biological, in Hungary, use of asphalt, concrete, and gypsum in, 24:50867
storage of bitumen-incorporated liquid and solid, in France, 25:21121
storage of calcined solid, design of facility for, 22:42934 (IN-1155)
storage of calcined zirconium, corrosion studies for, 23:13824(R) (IN-1201)
storage of calcined, in salt mines, 22:33526
storage of glass blocks of, thermal and electrostatic phenomena produced in, 22:37826(T) (ANL-Trans-628, pp 51-128)
storage of high-level liquid, safety analysis of systems for, 24:5849 (RT/PROT-(69)4)
storage of high-level solid, development of criteria for long-term, 23:9681 (ORNL-4316, pp 1-69)
storage of high-level solid, effects of temperature, feed type, and activity on, 25:41905
storage of high-level solid, in stainless steel bins in concrete vaults at Idaho Chemical Processing Plant, 22:16815
storage of high-level, in solids, safety of, 25:54969 (JUL-766-CT)
storage of high-level, in underground tanks, cesium-137 and strontium-90 transport through soils from leakage during, 22:21298 (DP-1124)
storage of high-level, safety analysis of tank, 22:152
storage of krypton-85, underground method for, 24:48460 (CEA-CONF-1550)
storage of liquid, at Savannah River Plant, equipment and method for, 24:2413 (DPSPU-69-30-9)
storage of liquid, design of container for, 23:33315(P)
storage of liquid, design of system for, 22:49061(P)
storage of liquid, ground water flow in Trombay site for underground, (E), 24:44091 (BARC-478)
storage of liquid, in basement rocks, 22:21299
storage of nuclear power plant, 22:36016 (RISO-M-735)
storage of phosphate glass-incorporated, in stainless steel pot under water, semi-fluid conditions in, 25:57702 (BNWL-B-112)
storage of rare gas fission products from reprocessing of spent fuels, 24:5716
storage of solid calcined, 24:9429(R) (IN-1314)
storage of solid, in cans, manipulators for, 23:6 (IN-1203, pp 37-51)
storage of solid, radiometric method for detection of plutonium in containers used for, 23:26492 (CEA-R-3725)
storage of solid, standards for, 24:44225 (CEA-N-1291)
storage of solidified, 23:21774(R) (BNWL-1003)
storage of solidified high-level, in salt mines and shale formations, 21:32351
storage of solidified, containing sulfate, high-temperature, 23:11596(R) (BNWL-923)
storage of solutions of, from reprocessing of zirconium alloy fuels, 22:33526
storage of transuranic, site operation at NRTS for, 25:54965 (CONF-710401-, pp 365-8)
storage of, consideration of national and international radiation dose standards in planning for interim and long-term, 25:55253
storage of, criticality studies for, 21:30345(R) (IN-1063)
storage of, design of tanks for, 24:48254
storage of, fabrication of tanks for, 22:33623 (SZS-1/68)

storage of, from close-coupled fuel cycles, 21:10567 (CONF-660208-, pp 61-73)
storage of, German legal requirements for, 21:41188
storage of, heat transfer in, 22:4231(R) (IN-1087)
storage of, heat transfer in underground-tank, 21:10587 (CONF-660208-, pp 760-86)
storage of, in German salt mine, feasibility study of, 21:12614(R) (KFK-481)
storage of, in salt formations, 21:10586 (CONF-660208-, pp 660-70)
storage of, level-alarm circuit for tank, 22:21381 (ORNL-4219, pp 68-74)
storage of, use of nuclear cavities for underground, 22:48972
storage of, use of stainless steel tanks for, 21:16047
storage safety of Savannah River Plant, groundwater movement tracing for, 21:36141
storage tank structural material for, properties of Kaolite-20 as, 22:43013 (BNWL-797)
storage tanks for, 21:17808(P)
storage tanks for, retardation of cracks in steel, 22:36437
storage tanks for, sludge removal from, 21:41187 (DP-1093)
storage tanks for, testing Unarcoboard-36 insulating panels for, 22:40289 (BNWL-809)
storage underground at CEN, Belgium, 21:268
storage vessels for, molten core size for cylindrical and spherical, 23:31507 (BNWL-1004)
strontium-90 removal from organic, evaluation of ion exchange for, 24:29740 (UCD-472-116, pp 129)
surface water contamination by, effects on ecosystems, 21:18019
temperature of buried tanks of, 22:152
temperature of stored, design and performance of infrared radiometer for monitoring, 22:38137 (BNWL-773)
temperature rise in cylinder-stored high- and intermediate-level solidified, calculation of maximum, 23:17732 (ORNL-4361)
thermal behavior of solid, immersed in fluid or solid media, (T), 24:2412 (BARC-288)
thermal expansion of, solidified in phosphate glass, coefficient of linear, 23:11596(R) (BNWL-923)
thorium-229 recovery from, 22:25440(R) (MLM-1443)
transfer from hot cells, design of shielded container for, 23:24417(P)
transfer of slurry-type, test loop design for, 22:40348 (DP-1136)
transfer procedures for La Cross Boiling Water Reactor solutions, operating manual for, 23:9067 (ACNP-68505-G(Suppl.))
transfer to shipping and storage containers, equipment and method for, 25:10800(P)
transport by marine currents, Rhodamine B tracer study of, 24:34208
transport in railroad tank cars, radiation protection aspects of liquid, 23:16281 (BNWL-966)
transport in rivers, design of model river for determination of, 23:11653
transport in rivers, research on, 21:15996
transport in soils, evaluation of methods, models, and theories on effects of liquid—solid phase interactions on, 24:7608 (BNWL-1196)
transport of liquid, through soils, method for predicting, 23:45407
transport of, design and testing of shipping casks for, 25:48290(R) (ORNL-TM-2663)
transport of, facilities for, 22:40207
transportation of, hazards to public from, 21:15703
treatment and disposal of liquid and solid, economic analysis of, 23:2413 (SZS-10/68, pp 1-17)
treatment and disposal of liquid, at the Pelindaba Plant, South Africa, 21:28186 (PEL-143)
treatment and disposal of, IAEA review of factors affecting, 22:12562 (STI/PUB-170)
treatment and disposal of, methods for safe, 24:31671
treatment and disposal of, program for, 21:46906
treatment and storage of liquid and solid, in Italy, 21:14407
treatment and storage of, near Moscow, equipment and methods for, 24:20973
treatment at JAERI during 1969 and 1970, progress report on routine, 25:8693(R) (JAERI-5025)
treatment at Novo-Voronezh nuclear power plant, U.S.S.R, 21:12160
treatment at Oarai Research Establishment in Japan during 1968 to 1969, 24:25483 (JAERI-5024)
treatment facilities at Tokai, Japan, engineering drawings for, 23:47724 (JAERI-4049)
treatment in Japan during 1967, methods for, 23:18028 (JAERI-5017, pp 163-5)
treatment in nuclear energy industry, summaries of AEC sponsored research on, 24:46593 (TID-4065)
treatment in seawater by coagulation methods, 24:39456 (NIRS-8, pp 63-79)
treatment in western Europe, review of methods for, 22:21302
treatment of detergent containing, 21:265
treatment of Eurochemic medium-level, Neutralization Self-Solidification process for, 21:19881 (NP-16597)
treatment of fission product-containing liquid, bench scale flowsheet for, 24:48874(R) (NP-18353)
treatment of fuel reprocessing plant, 22:40171 (KR-126, pp 245-66)
treatment of gaseous, equipment and methods for, 23:7718(P)
treatment of liquid, at JAERI during 1969 and 1970, research on, 25:8693(R) (JAERI-5025)
treatment of liquid, at Marcoule Plutonium Production Center, 23:50087(T) (ANL-Trans-777)
treatment of liquid, effects of flocculents on decantation in, 25:41833(R) (IA-1218)
treatment of liquid, from irradiated-fuel processing plants for removal of ruthenium-106 nitrosyl, use of chitin or chitosan for, 25:16116
treatment of liquid, using humic acids, 23:13834(P)
treatment of low- and intermediate-level, conference on, 21:148 (STI/PUB-116)
treatment of low- and intermediate-level, report of 1966 IAEA panel on, 22:25464 (STI/DOC-10/82)
treatment of low-level aqueous, in sewage plants, methods for, 22:51567(R) (IN-1205)
treatment of low-level liquid, coagulation, flocculation, and sedimentation methods for, 23:2375 (LA-DC-10007)
treatment of low-level liquid, in disposable shipping container, 23:21920 (AD-675426)
treatment of low-level liquid, sorptive properties of Korean clay minerals for, (E), 23:43486 (AERI-31)
treatment of low-level, biological, evaporation, ion exchange, and precipitation methods for, 24:36337 (CEA-N-1241, pp 85-100)
treatment of low-level, design of equipment for, 24:36337 (CEA-N-1241, pp 85-100)
treatment of Purex, by pot solidification, 25:10658(R) (BNWL-1533)
treatment of water-contained, regeneration of ion exchangers for, 24:46395 (SZS-13/70)
treatment of, bacterial, evaporation, ion exchange, and precipitation methods for, 25:6391 (CEA-N-1341, pp 95-109)
treatment of, bacterial, evaporation, ion exchange, and precipitation methods for, 25:26329(T) (ORNL-tr-2410, pp 1-13)
treatment of, design of β—γ installation for semi-industrial, 25:6391 (CEA-N-1341, pp 95-109)
treatment of, design of β—γ installation for semi-industrial, 25:26329(T) (ORNL-tr-2410, pp 1-13)
treatment of, effects of detergents on flocculation and ion flotation, 22:30663
treatment of, methods for, 25:6390(R) (CEA-N-1341)
treatment of, regeneration of ion exchange resins for, 21:32348 (SZS-2/67)
treatment of, regeneration of ion exchange resins for, 21:32349 (SZS-6/67)
treatment of, using ion exchange, 25:48587
treatment plants in Euratom countries for, survey of, 23:19475
treatment system for La Crosse Boiling-Water Reactor, operating manual for, 23:1968 (ACNP-68505-G)
treatment using ion-exchange processes, manual on, 23:47727 (STI/DOC-10/78)
tritium management in aqueous, from fuel processing, 22:25444 (ANL-7375, pp 180-9)
uptake by fish and plants of radioisotopes from, from French Plutonium Production Center, 21:16304
uranium recovery from, methods for enriched, 22:27850 (CEA-N-816, pp 80-9)
uranium-234 recovery from raffinate solutions of, 22:25440(R) (MLM-1443)
use for treatment of conventional waste water, 24:8034
use in electric power production, system for, 21:36294(P)
use in luminescent light sources, 21:36282(P)
uses of, review of, 21:36086
vitrification of fission product solutions, design of equipment and plant for, 24:36343 (CEA-N-1241, pp 355-73)
vitrification of high-level, 22:47212
vitrification of solutions of, 22:37826(T) (ANL-Trans-628, pp 51-128)
vitrification of solutions of, 23:17507(T) (AEC-tr-7028, pp 154-98)
vitrification of solutions of, from reprocessing molybdenum—uranium alloy fuels, method for pot, 24:11657 (CEA-N-1148, pp 369-93)
vitrification of solutions of, operation and performance of equipment for, 25:6397 (CEA-N-1341, pp 385-436)
vitrification of solutions of, operation and performance of equipment for, 25:26334(T) (ORNL-tr-2410, pp 143-89)
vitrification of, installation at Marcoule fuel reprocessing plant for, 22:37831 (CEA-N-856, pp 434-44)
vitrification of, Marcoule pilot plant for, 22:35895
volume for decontamination of equipment, methods for reducing, 25:46608 (BNWL-B-90)
volume reduction in fuel reprocessing, 24:11682
volume reduction of low-activity solid, methods for, 24:46309 (STI/DOC-10/106)
volume reduction process for, at Rocky Flats, Colorado, 25:54709 (CONF-710401-, pp 386-91)
zinc-65 content of, from nucleaar power plant, effects of, on oysters, 23:18009 (CONF-670503-, pp 363-71)

Radioactive Waters
see Natural Waters

RADIOACTIVITY
see also Decay Schemes
see also Gamma Radiation
adiabatic corrections to decay energies, (T), 25:23065(T) (RFP-Trans-70)
airborne radiometric survey of, in Arizona, California, Nevada, and New Mexico, 1953 to 1956, 21:10464 (RME-147)
airborne radiometric survey of, in Colorado, Arkansas, Montana, Texas, and Utah, 1952 to 1955, 21:10465 (RME-148)
airborne radiometric survey of, in South Dakota and Wyoming, 1952 to 1955, 21:10466 (RME-149)
alpha, determination in seaweeds from uranium content, 21:22372
analysis of growth—decay rates in, least squares method for, (T), 23:25978
atmospheric dispersion of, from nuclear reactors, effect on site selection of, 21:30540 (AECL-2682)
atmospheric pollution from, review of methods for determining, 21:43066
atmospheric, from earth's crust, 21:6068
atmospheric, specificity of determination of, 21:24
attachment of ions and atoms to aerosol particles, (T), 21:10469
autoradiography of natural, in tissues of man and animals, 21:8830
beta activity of fallout, in atmosphere and precipitation, 21:10474
bibliography on natural environmental, 24:27222 (WASH-1061(Suppl.))
book: An Introduction to Radioactivity for Engineers, 23:4797
book: Atomic Energy in Industry, 24:39160
book: Elementary Particles, Atomic Nuclei, Radioactivity, 23:49026
book: Induced Radioactivity, 23:40158
book: Introduction to Radioactivity for Engineers, 22:30778
book: Legal Considerations on Ionizing Radiation, 21:6534
book: Measurement of Atmospheric Radioactivity, 25:51634
book: Monitoring The Radioactivity in Waste Water and Exhaust Air. Second Suppl. Ed. (In German), 22:4288
book: Nuclear Chemistry, 21:36053
book: Radioactivity in Surface and Coastal Waters of the British Isles, 1967, 23:2433
book: Radioactivity Measurements. Practical Manual on the Uses of Nuclear Radiation, 25:55020
book: The Radioelements. Production, Dosage, Applications, 21:16078
book: The Technical Applications of Radioactivity, Vol. I, 21:28175
calculation of ground-level atmospheric, from near reactor stacks at ORNL, methods for, 25:8452 (ORNL-TM-3187)
calculation of long distance, from nuclear explosions used for excavation, 25:46577 (UCRL-50936(Rev.2))
calculation of long-lived, in soil of beam tunnels containing 500-GeV protons, (T), 25:50208
calculations for buildup and decay problems in, 24:8953
calculations of uranium hexafluoride shipping cylinder, equations for, 24:19183 (K-L-6252)
calibration and dosimetry in Italy, enforcement of legislation on, 25:42509
calibration of, international comparisons by BIPM for, 23:2568
calibration standards at CBNM of Euratom, 23:2567
characteristics of natural, of marine sediments, 21:41049
composition and distribution of environmental, review of, 21:4626
conference, 22:6544
conference on monitoring of, in atmosphere, Obninsk, July 30 to Aug. 2, 1968, 25:57576
containment and measurement of helium coolant, in Peach Bottom Power Reactor, 21:35630
content and exchange of natural atmospheric, model of, 21:41029
content in air at Crimean coast of Black Sea, 1959 to 1960, 21:8453(T) (AEC-tr-6641, pp 43-52)
content in air near nuclear power plants, modified Sutton equation for determination of, 21:22044
content in air up to 30 m, 21:6074
content in air, over Indian and Pacific Oceans, 21:8457(T) (AEC-tr-6641, pp 14-22)
content in atmosphere, in Japan, 1965, 21:14335
content in Continental Shelf sediments near Columbia River, 21:39064 (RLO-1725-73)
content in German rivers from nuclear power plants, research on maximum permissible, 24:44093 (CONF-700810-12)
content in ground-level atmosphere of Prague—Bulovka, Czechoslovakia during Oct. 1968 to Dec. 1969, 24:41435
content in ice crystals and raindrops, effect of drop size on, 21:4628
content in Midwestern USA rainfall, from lower troposphere, 21:43054 (COO-1199-13)
content in rainwater from convective storms, 21:25992 (ORO-3083-4, Pt.1)
content in rainwater from convective storms, 21:25993 (ORO-3083-4, Pt.2)
content in rainwater in Oklahoma, 21:32274(R) (COO-1407-15)
content in rainwater, effect of convection storms on, 21:25991(R) (ORO-3083-4)
content in rainwater, effect of divergence and vorticity of surface winds on, 21:25996 (ORO-3083-4, Pt.5)
content in rainwater, effect of drop size on, 21:22047
content in rainwater, effect of stratospheric scavenging on, 21:25995 (ORO-3083-4, Pt.4)
content in rainwater, measurement of, 21:10471
content in surface air in Antarctica, 21:39059
content in troposphere, model for prediction of, 21:6085
content in volcanic rocks, 21:36117
content of atmosphere in environs of Lawrence Radiation Laboratories during January to June 1967, 23:12089
content of atmospheric precipitation and surface air in Canada, Mexico, Pan America, and United States during February 1968, fallout gross β, 23:12082
content of β, in fallout over Atlantic Ocean, 21:8456(T) (AEC-tr-6641, pp 23-31)
content of environment at Atomics International and Savannah River Plant during July through December 1967, 23:12083
content of raindrops in northern Caucasus, effects of drop size and evaporation on, (E), 24:48185
content of surface air and precipitation in North and South America during December 1967, gross β, 23:12088
content of surface air at selected world sites during 1963 to 1968, gross γ, 23:7995(R) (HASL-200(App.))
content of surface waters in United States during December 1967, fallout α and β, 23:12081
content of total, in atmosphere, effects of meteorological conditions on, 24:46366
content of water supplies in California during January to June 1967, gross β, 23:12081
content, in oysters off Washington State shore, measurement of, 21:16306
control and distribution of, produced in nuclear excavations, 21:10496

control of atmospheric release from nuclear power reactors, radiochemical, 21:28042
correlation between fallout and natural, effects of air turbulence and soil dryness on, 21:16020
counting of, factor for determining true mid-point of count rate for, 22:37
counting of, preparation of precipitate and planchet samples for, 21:15972
counting of, time-correction tables for, 21:34220
decay constants for, variation of nonlinear parameters for computing, 25:43521
decay curves for, asymptotic behavior of the maximum-likelihood estimation function with exponential Poisson regression, 25:41252 (JUL-720-MA)
decay curves for, computer program for calculating half-lives and intensities of, 25:56695
decay in lunar surface rocks, (T), 22:8930
decay of, and corrections for, nomographs for, 24:51776
decay time distribution of, use of multichannel analyzers for measuring, 22:49162
decontamination of cereals of, 21:28433 (EUR-3179.d)
deposition, diffusion, and transport of, comparison of US and USSR methods for calculating, 25:54782 (UCRL-51054)
detection and control of, from French fast reactors, equipment and methods for, 24:44226 (CONF-700810-7)
detection and measurement of low-level, conference on methods for, 21:39037 (COO-689-76, App.A-VIII)
detection and measurement of, review on, 25:26316
detection and measurement techniques for, lectures on, 23:24431 (TUBIK-9)
detection for specific isotopes, statistical rules for, 21:19973
detection in coal-bearing sediments in Japanese Igu lignites, 22:8217
detection in phosphorous nodules in Miyazaki Prefecture, Japan, radiometric method for, 22:6442
detection of natural, in eastern Aichi Prefecture, Japan, radiometric method for, 21:10455
detection of natural, in southern Yamagata Prefecture, Japan, radiometric method for, 21:10456
detection of, evaluation of sensitivity of methods for, 21:34210 (BNWL-SA-1121)
detection of, use of lithium-drifted germanium detectors for, 21:10607(R) (N-66-19650)
determination in liquids, design of gas-coulometric device for remote, 23:43266
determination in seawater, spectrophotometric, 22:50913
determination in waste water and exhaust air, review of methods for, 23:35011
determination in water, review on methods for, 23:26176
determination of fission product, using β—γ coincidence counting, 21:6488 (EGG-1183-2103)
determination of, in atmosphere after underground weapon tests, 21:2935 (LA-3420)
determination of, in de-emanation of thorium-228 in solution, 23:7452
diffusion and distribution from ocean bottom-located sources at depths from 1000 to 2000 m, mathematical model for prediction of, 23:475 (NYO-3109-37(Pt.2))
diffusion from plutonium dioxide microspheres deposited on ocean bottom, 23:21888 (AD-675039)
diffusion in atmosphere and soils, use of model for determination of coefficients of, 21:36113
diffusion in atmosphere, effects of site micrometeorological conditions on, 24:44126 (RT/PROT-(69)13)
diffusion in seawater of, comparison of theoretical models for, 21:30555 (USNRDL-TR-67-50)
diffusion of, from radon, atmospheric, 21:16018
dispersion and distribution from stacks, use of maximized Sutton's equation to calculate, 21:32278
dispersion in atmosphere of, effect of turbulent diffusion on, 21:10468
dispersion in ocean surface, dye tracer studies of, 21:16030
dispersion in surface waters, in France, 21:16088
distribution and particle size of, from NERVA destruction, 21:10514 (USNRDL-TR-1090)
distribution downwind following release at reactor sites, comment on Gaussian, (T), 25:49187
distribution in air layers, equations for describing vertical, 21:19771
distribution in atmosphere, vertical, 23:11660
distribution in bodies of mice, effects of inhalation of radon aerosols on, 21:28596 (UR-669)
distribution in Columbia River Estuary, vertical, 21:39044 (RLO-1750-22(Vol.2), Paper 2)
distribution in fallout, effect of aerosol particle size on, 21:22049
distribution in fallout, effects of aerosol particle size on, 25:29214(T) (LA-tr-71-7)
distribution in iron meteorites, effect of depth on, 21:12534
distribution in minerals of granites, 21:3197
distribution in moon, (T), 21:33285
distribution in Piledriver Event chimney rubble, effects of granite particle size on, 24:41512 (CONF-700101-(Vol.2), pp 888-908)
distribution in rocks surrounding nuclear cavity, 24:41507 (CONF-700101-(Vol.1), pp 850-8)
distribution in seawater, effects of nuclear explosions and waste disposal on, 21:41048
distribution of, in aerosols in mines, effects of particle size on, 21:16010
distribution over atmospheric aerosols of greater than 0.25 μ radius, 23:4742
distribution over Indian Ocean and its environments, maps for, 22:40265
dose rates of natural, use of gamma spectrometer for measurement of, 21:12648
effects of climatological changes on natural, in German atmosphere, 21:45252
effects of meteorite, on temperature of earth's upper mantle, (T), 22:47236
effects of non-Markoffian relaxation processes on time-integral perturbed angular correlations, 24:40688
effects of, on plant pathogens, 21:438
effects on fossil biological materials of, in deposits, (E), 24:49255
effects on heating of asteroids in early solar system : (T), 24:39790
environmental monitoring of, in Euratom countries, 1965, 21:19767 (EUR-3165.d,f,i,n)
estimation of induced, near activated objects, 25:54987
estimation of, from dose rate measurements, 21:6168 (TRG-Report-1287)
extinct natural, possible additional cases of, 23:40857(R) (NYO-844-76)
formation of haloes by extinct α, 21:14321
half-life measurement of, method for obtaining optimal information in, 25:48118
half-life measurements in range 10 to 100 days, method for, (E), 21:4280
hazards from atmospheric, probabilistic method for prediction and evaluation of, 22:18968 (LA-DC-9094)
hazards from peaceful nuclear explosions, estimation of, 24:41503 (CONF-700101-(Vol.1), pp 753-74)
input of artificial, to severe convective storms at low altitudes in Oklahoma, 21:32277
ionization in lower Martian ionosphere by, (E), 23:12516
lectures on, 22:22620 (ISS-67/23)
levels in air inside buildings, effects of extent of ventilation on, 25:46807(T) (JPRS-53671)
levels in lower stratosphere and upper troposphere, relations with vorticity in tropopause, 24:25133
levels in natural gas from Project Wagon Wheel, predictions of, 25:51663 (UCRL-51067)
levels in Project Rulison site atmosphere, effects of meteorological conditions on, 24:25125 (ARLV-351-4)
levels in soils of natural and fallout, review, 21:3182
levels of natural, in the biosphere, 23:44195 (N-69-22966)
levels of, BONUS in-plant and liquid waste, 21:27745
measurement and sampling of airborne, methods for, 22:2233
measurement by liquid scintillation counting, 22:12265
measurement in air of Harwell buildings, personal and static samplers for, 23:11657
measurement in allanite crystals, nuclear emulsion method for, 21:36121
measurement in Antarctica rocks, 23:17562
measurement in atmosphere over Czechoslovakia, 1966 to 1968, 23:40881
measurement in atmosphere, water, and sewage, sampling methods for, 22:40268
measurement in column chromatography eluates, method for continuous, 22:40009
measurement in Czechoslovakian waste disposal area, 22:2334(T) (JPRS-42565, pp 97-109)
measurement in Czechoslovakian water supplies, radiochemical methods for, 25:269
measurement in deep sea sediments, 22:16731
measurement in drinking water supplies in the United Kingdom, 1964, 21:3177
measurement in dusts and rainwater from May 1966 Chinese nuclear explosion, 22:10380
measurement in dusts, performance of samplers for, 22:48947
measurement in fallout from nuclear weapons tests, 21:41031
measurement in fallout from second Chinese nuclear explosion, 21:41023
measurement in fallout from second Chinese nuclear explosion, 22:25535(T) (NSJ-tr-98)
measurement in granite minerals, nuclear emulsion method for, 21:36122
measurement in granitic rock tunnel near Salt Lake City, Utah, 22:45181
measurement in ground waters near Seoul, Korea, 22:27903
measurement in Hawaiian aerosols and precipitation, effect of trade wind inversion on, 21:41026
measurement in Illinois atmosphere and rainwater, 22:8220(R) (COO-1199-14)
measurement in Italian atmosphere, equipment and method for, 24:14088
measurement in Japanese air, rain, and sea water for October to December 1966, 22:12449
measurement in Japanese airborne dusts, April to June 1966, 22:2247
measurement in Japanese airborne dusts, milk, and rain, after 8th Chinese nuclear test, Dec. 1968, 23:45414
measurement in Japanese atmosphere and water from first Chinese nuclear explosion, 22:2246
measurement in Japanese atmosphere, airborne equipment for, 23:15977
measurement in Japanese rain and atmosphere, 21:30549
measurement in Japanese rainwater, April to June 1966, 22:2249
measurement in Japanese rainwater, April to June 1966, 22:2248
measurement in liquid wastes from industrial, medical, and research uses of radioisotopes, method for, 24:27313 (CONF-690540-, pp 57-75)
measurement in Madras State beach sands, 23:474
measurement in Matsushiro earthquake area of Japan, 22:27909
measurement in migmatite, nuclear emulsion method for, 21:36124
measurement in Neogene sediments in Niigata Prefecture, Japan, 22:8229
measurement in Neogene Tertiary near Shibata City, Japan, 22:8216
measurement in Niigata, Japan, from October 1966 Chinese nuclear explosion, 23:2422(T) (NSJ-tr-132)
measurement in Niigata, Japan, from October 1966 Chinese nuclear explosion, 22:10382
measurement in Pacific Ocean waters during Operation Wigwam, equipment and methods for, (E), 22:10411
measurement in plankton of Lake Lucerne, 21:16302
measurement in pouch core samples from Project Sedan crater, 21:30564 (UCRL-50213)
measurement in rainwater, design of apparatus for, 21:43112(P)
measurement in raw materials imported to Poland for use in phosphorus industry, 21:25795
measurement in Rhine basin mud and water, 23:38092 (EUR-3741(Vol.1))
measurement in rocks from Southern Bulgaria, 22:27906
measurement in rocks of Ehime Prefecture, Japan, 22:8231
measurement in seawater, equipment and methods for, 25:37625(T) (JPRS-53090, pp 1-17)
measurement in sphene, nuclear emulsion method for, 21:36123
measurement in sulfated mucopolysaccharides, use of Alcian Blue in, 23:11435
measurement in Swedish building materials, 22:12429 (NP-17230)
measurement in thorium- and uranium-bearing black slates of Miyagi Prefecture, Japan, 21:28087
measurement in UK drinking water, 1965, 22:18943
measurement in uraniferous beds in Niigata Prefecture, Japan, 22:8230
measurement in uranium ore deposits on Shodo Island, Japan, 22:8228
measurement in uranium ore deposits on Shodo Island, Japan, 22:8228
measurement in xenotime and zircon crystals, 24:312
measurement in Yugoslavian atmosphere following Chinese nuclear explosion, June 17, 1967, 23:40882
measurement methods for living organisms, 21:22594
measurement of, 22:16356 (KR-116)
measurement of airborne, in Pennsylvania, Ohio, West Virginia, and Maryland, 1960, 21:8451 (CEX-59.4.12)
measurement of airborne, in the Orlando area, 1963, 21:4621 (CEX-63.6.1)
measurement of aluminum-26, in Pacific Ocean deep-sea sediments, 22:6459
measurement of atmospheric and precipitation, in Japan 1966, 22:10381
measurement of atmospheric, 1960 to 1964, 23:21825
measurement of atmospheric, design of equipment for, 23:7683(P)
measurement of atmospheric, from ground testing of nuclear rockets, 22:18967 (LA-DC-9093)
measurement of atmospheric, from nuclear weapons tests, 21:1456(R) (HNS-457-73-F)
measurement of atmospheric, in relation to air movements, 22:40267
measurement of atmospheric, near Vilnius, Lithuania, use of recorder with moving filter for, 22:47243
measurement of background, in Wisconsin lake waters, 22:16697(R) (COO-1281-9)
measurement of beta, in Bulgarian rocks and soils, 22:40211
measurement of body organ, IAEA report on techniques for, 25:49180
measurement of body, construction of underground welded steel shielded rooms for, 25:21228 (ANL-7760(Pt.2), pp 45-6)
measurement of chimney gas, from Project Gasbuggy underground nuclear explosion, 22:18999 (PNE-1003)
measurement of clinical, performance of gamma spectrometer for, 22:43077 (ORNL-4153)
measurement of environmental, in Italy, 21:39056(R) (PROT.-SAN.-10/66)
measurement of environmental, in Italy, 21:39055(R) (PROT.-SAN.-02/66)
measurement of environmental, in Picatinny Arsenal area, 1963 to 1966, 21:43046(R) (AD-651495)
measurement of exposure through food uptake, use of model diet for, 22:28524
measurement of gross α and β, in Amchitka Island area surface waters, 25:51618 (USGS-474-123)
measurement of gross, in airborne dusts in the Netherlands, 1965, 22:2227 (RA-29)
measurement of ground-level, from stack disposal of argon-41, design of equipment for, 22:18947 (BNL-12154)
measurement of ground-level, in atmosphere in Alaska, Brazil, and Richland, Wash., 1962 to 1968, 22:25523 (BNWL-SA-1739)
measurement of ground-surface, from fallout, scintillation detectors for, 24:48173
measurement of γ, in upper Mesozoic graywackes in northern Coast Ranges of California, 21:12521 (UCRL-17061)
measurement of high-altitude, near Argonne site, performance of radiosonde equipment for, 25:48618 (ANL-7760(Pt.3), pp 249-50)
measurement of human internal, for calculation of chronic internal radiation dose, direct or indirect periodic, 25:49175 (EUR-4330)
measurement of Italian environmental, July to Dec. 1966, 22:23165 (PROT.-SAN.-12/67)
measurement of Japanese atmosphere and seawater, April to October 1966, 22:27918
measurement of Kobe Harbor water and sediment, 21:41002
measurement of low-level, 24:13766 (NBS-TN-501)
measurement of low-level, equipment and method for, 24:487
measurement of low-level, in vivo, development of method for, 24:50979
measurement of low-level, instruments and methods for, 22:2238
measurement of natural and artificial, in atmosphere, 21:6083
measurement of natural and artificial, in the atmosphere over Toulouse, 21:24108
measurement of natural β, in atmospheric aerosols in Plovdiv, Bulgaria, 1962 to 1963, 21:26001
measurement of natural β, in atmospheric aerosols in Plovdiv, Bulgaria, 1962 to 1966, 21:26002

measurement of natural, by alpha spectrometry, 21:32325 (CONF-661203)
measurement of natural, effects of fallout on, 22:2214
measurement of natural, from radon-222 in Illinois soils, 22:171 (PHS-999-RH-26)
measurement of natural, in air above Atlantic Ocean, 21:191
measurement of natural, in air at high altitudes, 21:10462 (NP-16438)
measurement of natural, in atmosphere near ground, 22:16722
measurement of natural, in Japanese soils, 21:45244
measurement of natural, in Neogene Tertiary in Niigata Prefecture, Japan, 21:36164
measurement of natural, in tertiary beds in Niigata Prefecture, Japan, 21:36168
measurement of natural, in Ukrainian shield rocks, tectonic scheme for, 22:10363
measurement of natural, in uraniferous beds in Niigata Prefecture, Japan, 21:36167
measurement of natural, induced in building materials, 22:780 (CERN-67-25)
measurement of natural, near ground, 21:12536
measurement of ocean floor, design of equipment for, 25:2357(P)
measurement of off-site environmental, following Kiwi TNT experiment, 23:11656 (SWRHL-17-r)
measurement of Phoebus 1B reactor effluent cloud, (E), 22:12442 (LA-3787)
measurement of Polish γ, improved method for, 22:6445
measurement of released, during Project Gasbuggy, 23:15998 (UCRL-71356)
measurement of released, of exhaust stacks, use of glass dosimeters and air quantity for, 22:49346
measurement of residual, computer-controlled system for, 23:1929(R) (COO-1265-67)
measurement of small concentrations of, in beakers, 23:7757
measurement of surface, at Sydney and Lucas Heights, Australia, 21:1454 (AAEC/TM-317)
measurement of surface, of Quirke Lake Syncline near Elliot Lake, Ontario, 23:6231
measurement of surface, of rocks from drill holes in western Australia, 24:33786
measurement of total beta-gamma, in soils, method for, 24:25117
measurement of whole-body, performance of large thallium-activated sodium iodide crystals for, 25:37562 (NP-18809, pp 4.1-6)
measurement of, accuracy of extrapolation in tracer method for, 23:2531
measurement of, at maximum depths in oceans, design and use of automatic γ radiometer for, 21:8811(T) (AEC-tr-6641, pp 145-56)
measurement of, calculation of relative standard error in, 21:1410
measurement of, counting times in, 23:9707
measurement of, design and operation of large portable laboratory for remote-site, 23:9607 (BNWL-715-3, pp 190-4)
measurement of, in air and fog, 21:19770
measurement of, in atmosphere of uranium mines, 21:14671
measurement of, in igneous and granite rocks, 21:8432
measurement of, in natural environments, effects of sampling methods on results of, 21:14616 (BNWL-280, pp 100-1)
measurement of, instruments for, 21:30352 (PHS-999-RH-27)
measurement of, methods for absolute, 22:23203
measurement of, performance of analog and digital rate meters for, 21:8227
measurement of, quenching effect on, 21:4697
measurement of, review on developments in, 22:25311
measurement of, statistical optimization procedures for, 21:5973 (N-66-31989)
measurements for fallout particles from air sampling filter dusts, 22:25526 (HASL-193, pp I.17-26)
measurements for individual raindrops, 23:24317
measurements for strontium-90 and yttrium-90 solutions, results of international comparisons of, 22:6545
measurements for summer clouds on Mt. Olympus, Greece, 24:16708
measurements in aerosols in reactor environment, equipment and method for, 24:44130
measurements in air at Hanford plutonium handling facilities, (E), 22:12473 (BNWL-495)
measurements in air, food, and water in Central Florida, 22:40209 (SC-RR-68-196)
measurements in air, milk, and rainwater in Ankara, Turkey, Aug. 1965 through July 1966, 22:181(R) (TAEC-D-5)
measurements in ancient ceramics, use in thermoluminescence method of age estimation, 22:6478
measurements in Arkadelphia, Ark., from 1968 French nuclear explosion, 23:26374
measurements in atmosphere, 22:42876
measurements in atmosphere and hydrosphere, 23:9574
measurements in atmosphere and rainwater in UK, 1967, 22:12439 (AERE-R-5575)
measurements in atmosphere over Indian Ocean, methods and results of, 22:6489
measurements in atmosphere, rainwater, and soils at Tokushima, Japan, May to Sept. 1968, 24:7530
measurements in atmosphere, vegetation, milk, and water of Savannah River Plant environs, January through June 1968, 22:45178(R) (DPST-68-30-2)
measurements in atmospheric precipitation at Calgary, Canada from 1964 to 1969, effects of seasons on gross beta, 24:46368
measurements in Berlin from fifth Chinese nuclear explosion, 22:12446
measurements in Bulgarian atmosphere, 1960 to 1964, annual and diurnal, 23:38112
measurements in Cattaraugus Creek, New York waters during Oct. 1969 to Jan. 1970, 25:26355(R) (SRO-344-11)
measurements in central US rainwater, 1962 to 1966, 22:18976
measurements in Czechoslovakia atmosphere, 1966, 22:27923
measurements in Danish and Greenland atmosphere and precipitation, July through Dec. 1967, 22:51093 (FFR-401/68)
measurements in effluent cloud produced by NRX reactor, 22:182 (UCRL-50299)
measurements in fly ash from coal-burning power plants, 25:39605
measurements in German atmosphere, following third Chinese nuclear explosion, 22:18975
measurements in German atmospheric dust and precipitation, use in meteorological research, 24:9526(R) (NYO-4061-1)
measurements in granite rubble particles from Piledriver Event, 23:9598 (UCRL-50489)
measurements in granites from Strzegom, Poland, 22:30702
measurements in granitic rocks of Australia, 22:25521
measurements in ground-level atmosphere and soils near Moscow, 1963 to 1965, 22:21195 (A-AC-82/G/L-1201)
measurements in IAEA mixed diet, 22:23133 (IA-1128, pp 156-9)
measurements in Illinois atmosphere and rainwater, 24:9525(R) (COO-1199-18)
measurements in Illinois atmosphere and rainwater, 23:7637(R) (COO-1199-17)
measurements in Japanese atmosphere, dusts, and rainwater, 23:29025
measurements in Japanese atmosphere, dusts, and rainwater, July to October 1967, 23:13874
measurements in Japanese dusts and precipitation, 1960 to 1962, 22:30724
measurements in lower stratosphere, Project Airstream methods for, 22:25527 (HASL-193, pp I.33-207)
measurements in marine environment, instrumentation research for, 24:41456 (AD-704877)
measurements in mineral waters from Szczawno, Poland, α and β, 24:46349
measurements in minerals in USSR ultrabasic rocks, 25:276
measurements in near-ground atmosphere in central and northern Europe, Nov. 1962, 24:7526(T) (UCRL-Trans-10413)
measurements in North Adriatic Sea sediments, 24:19116
measurements in Pacific Ocean fish following Project Wigwam explosion, 22:10410
measurements in Pacific Ocean, following Operation Wigwam, 22:10409
measurements in sediments at base of Mt. Obora, Japan, 1967, 25:57566
measurements in sewage and surface waters of Hamburg, Germany, 23:24305
measurements in Sierra Nevada batholith, 22:16701
measurements in soil-forming rocks of middle Volga region, USSR, 22:25520
measurements in soils and ground-level atmosphere at archaeological excavation sites in Germany and Sweden, 25:2352
measurements in southern Indian monazite areas, 22:6440
measurements in stratosphere over Berlin and Rome from June 1967 Chinese thermonuclear weapons test, 22:12445
measurements in Swedish ground air and precipitation from USSR underground nuclear explosion, Dec. 1966, 22:12441 (FOA-4-4494-28)
measurements in Swedish ground-level atmosphere and precipitation from Dec. 18, 1966 USSR underground nuclear explosion, 23:17580
measurements in Thailand atmosphere, 1961 to 1963, 22:25539
measurements in the vicinity of LFEN in Portugal during 1960 to 1965, 21:24407 (LFEN-50)
measurements in thorium- and uranium-bearing pegmatites of central Africa, 23:11669
measurements in UK atmosphere and rainwater, Jan. 1967 to Oct. 1968, 23:19862 (AERE-R-5899)
measurements in US surface waters, April 1967, 23:4744
measurements in Vienna air from 1958 to 1962, 21:3187
measurements in, method for analysis of, 23:44951
measurements of artificial and natural environmental, evaluation of, 25:21678 (NP-18631, pp 122-35)
measurements of artificial and natural environmental, evaluation of, 25:21677 (NP-18630, pp 103-11)
measurements of atmospheric and snow, in high mountains of Salzburg, Jan. to Dec. 1965, 23:24319
measurements of atmospheric, in Japan, April to June 1967, 22:48948
measurements of deposited and fallout, in Japan following six nuclear explosions in China, 22:42848 (NP-17492)
measurements of Italian seawater, description of laboratory for, 23:13911
measurements of Rhine River basin, 1962 to 1965, 23:13858
measurements of rocks, soils, plants, and bones on Pacific Island of Niue, 22:2215
measurements of Salzburg atmospheric, in fallout from Oct. 1966 Chinese nuclear explosion, Oct. to Dec. 1966, 23:24320
measurements of UK building materials, 25:47192
measurements of US surface waters, Sept. 1967, 23:26361
measurements of, ICRU recommendations for international units for, 25:11064
measurements on Bikini Atoll, May 1967, 23:45417
measurements on irradiated liquid or solid samples of uranium, design and operation of automatic sample changer for, 24:46397
model involving successive emissions for, statistical, (T), 25:39107
monitoring airborne, in Mexico during June 1968, gross β, 24:2609
monitoring at Ames Laboratory, Jan. 1967 to July 1967, 21:39050(R) (IS-1647)
monitoring at Atomics International during 1970, 25:52055
monitoring at CERN accelerator site, 25:2562
monitoring at Chalk River Nuclear Laboratory during 1969, off-site, 24:7727 (AECL-3374)
monitoring at Hanford Atomic Products Operation during 1968, 25:52055
monitoring at Lawrence Radiation Laboratory and Shippingport Atomic Power Station during 1969, 25:13398
monitoring at Mol and Ispra, effects of rainfall intensity on, 25:29218
monitoring at NRTS waste disposal environs, 22:10530 (IDO-12040(Suppl.2))
monitoring at Yokosuka, Japan, 1954 to 1958, 22:2234
monitoring atmospheric, for control of air pollution, 21:19883
monitoring atmospheric, over Atlantic Ocean, June 1962, 21:28106
monitoring environmental, at Juelich Research Center, 21:1446 (JUL-379-ST)
monitoring gross α and β, in raw and treated water supplies in Minnesota during July to December 1969, 25:46835
monitoring gross β, in atmospheric precipitation in Canada and USA during January 1971, 25:46832
monitoring gross β, in environment around Ispra Establishment in Italy during 1971, 25:46820 (HASL-243, pp III.1-35)
monitoring gross β, in surface atmosphere in Canada, Central and South America, and USA during January 1971, 25:46832
monitoring in air and milk in vicinity of Nevada Test Site during January to March 1968, offsite gross β, 24:2617
monitoring in air and precipitation of Denmark, 1966, 21:41021 (NP-17016)
monitoring in air and surface water in environs of Oak Ridge during January to June 1967, gross α and β, 23:12097
monitoring in air, animals, plants, and water, developments in, 25:48616(R) (ANL-7760(Pt.3))
monitoring in air, food, milk, precipitation, and natural waters, 23:12098
monitoring in air, vegetation, and water in vicinity of Paducah Plant during 1965 to 1966, 22:491 (KY-543)
monitoring in airborne dusts over the Netherlands during 1967, 25:57575 (RA-42)
monitoring in Antarctica during 1963 to 1966, 24:31489 (NP-18212)
monitoring in aquatic environment of nuclear facility, role of stable element content measurements in pre-operational, 25:55240
monitoring in atmosphere and milk in Ecuador, 1966 to 1967, 25:41940
monitoring in atmosphere and precipitation in Canada, Mexico, Pan America, and United States during March 1968, gross β, 23:12096
monitoring in atmosphere and precipitation in North and South America during August 1968, gross β, 23:31777
monitoring in atmosphere and surface water in environs of Feed Materials Production Center during 1968, 23:33710
monitoring in atmosphere and water, review of current methods for, 25:54784
monitoring in atmosphere during 1966 to 1968, world wide, 23:48042 (HASL-214)
monitoring in atmosphere in USSR, ten-year summary of, 24:36415
monitoring in atmosphere of Canada, Pan America, and USA during May 1969, gross β, 24:2604
monitoring in atmosphere of Pacific Northwest, USA during 1967, 23:33702 (BNWL-983(App.))
monitoring in atmosphere over United Arab Republic during 1968, total α, β, and γ, 23:35702 (A-AC-82/G/L-1280)
monitoring in atmosphere, equipment and methods for, 23:38119
monitoring in atmosphere, performance of luminescent dosimeters for, 21:41391 (KFK-551)
monitoring in atmosphere, radiometric equipment for, 21:12546 (PNE-225-F)
monitoring in atmosphere, soil, surface waters, vegetation, and water supplies in environs of Atomics International Plants in California during 1967 to 1968, gross, 23:31777
monitoring in atmospheric precipitation and surface atmosphere in Canada and USA during October 1970, gross β, 25:42418
monitoring in atmospheric precipitation and surface atmosphere in Canada and USA during November 1970, gross β, 25:42426
monitoring in atmospheric precipitation in Canada and USA during 1969, gross β, 24:2604
monitoring in atmospheric precipitation in USA during November 1968, gross β, 24:2616
monitoring in biosphere, design of laboratories for, 22:2493(T) (UCRL-Trans-1356)
monitoring in Black Sea during 1966, 22:8550
monitoring in British coastal and surface waters from low-level waste disposal, 23:2433
monitoring in Canadian fallout, March 1967, 21:45233 (NP-16900, pp 28-34)
monitoring in central Nevada for Faultless Event January 1968, pre- and post-event, 23:31726 (SWRHL-51-r)
monitoring in coastal and surface waters of UK, 1969, 25:26397 (FRL-7)
monitoring in Columbia River during 1968 to 1969, β and γ, 25:42419

monitoring in Columbia River, use of lithium fluoride thermoluminescent dosimeters for comparative, 25:46841
monitoring in Danish atmosphere and precipitation, Jan. to June 1967, 22:23164 (NP-17330)
monitoring in different levels of atmosphere, correlation of natural, 24:7839
monitoring in ecosystems near Casaccia Nuclear Center in Italy in relation to critical crops, critical population groups, and maximum rates of discharge of radioisotopes, 25:16163
monitoring in environment and population of Federal Republic of Germany during first quarter of 1967, 22:38290
monitoring in environment and population of Federal Republic of Germany during second quarter of 1967, 22:33820
monitoring in environment in United Kingdom, derivation and use of reference levels and working limits as standards for, 25:55241
monitoring in environment of AEC installations at Canoga, California, and Paducah, Kentucky during July to December 1968, 23:45745
monitoring in environment of AEC installations in California and Florida during 1970, 25:42416
monitoring in environment of Fernald Feed Materials Production Center and Paducah Plant during 1970, 25:42420
monitoring in environment of Institute of Nuclear Research-Zeran Center during 1968, 24:44488 (INR-1117)
monitoring in environment of nuclear center in Mexico, design of survey for preoperational, 25:16164
monitoring in environment of nuclear power facility, consideration of ecological factors in developing program for, 25:55238
monitoring in environment of nuclear-powered ship sites and nuclear reactor sites, Public Health Service programs for, 22:51570 (NP-17401)
monitoring in environment of Zeran Nuclear Center, Poland, during 1969, 25:37731 (INR-1246)
monitoring in environment surrounding Argonne National Laboratory and Lawrence Radiation Laboratory during January to June 1970, 25:46833
monitoring in environment surrounding Brasov, Romania during 1961 to 1968, 25:42424
monitoring in environment surrounding Chalk River nuclear facility in Canada, 25:49319 (AECL-3961)
monitoring in environment surrounding Lawrence Radiation Laboratory during January to June 1971, 25:49179 (UCRL-51093)
monitoring in environs near Nevada Test Site during July through Dec. 1967, 24:33816 (SWRHL-64-r)
monitoring in environs of AEC installations, 25:13445
monitoring in environs of Ames Laboratory Research Reactor during January to June 1969, 23:45735 (IS-2154)
monitoring in environs of Bettis Atomic Power Laboratory and S1C Prototype Reactor Facility during 1967, 24:2617
monitoring in environs of Hanford Atomic Products Operation at Richland, Washington during 1967, 24:2605
monitoring in environs of harbors containing support facilities for U. S. Naval nuclear-powered ships to determine adequacy of waste disposal limits and procedures during 1969, 25:13444
monitoring in environs of Knolls Atomic Power Laboratory and Shippingport Atomic Power Station during 1967, 24:2610
monitoring in environs of Los Alamos Scientific Laboratory in New Mexico during 1968, 24:2605
monitoring in environs of Mexico during 1965 to 1966, 22:23514
monitoring in environs of NRTS during 1968, 23:41316 (IDO-12071, pp 25-31)
monitoring in environs of nuclear facilities, 22:25858
monitoring in environs of nuclear power plants, expansion of federal program for, 24:44514
monitoring in environs of nuclear warships in Japan, program for, 23:24671
monitoring in environs of Portsmouth Area during July to December 1967, α, β, and γ, 23:12097
monitoring in environs of Project Gasbuggy, preshot and postshot, 24:22845 (SWRHL-99-r)
monitoring in environs of S1C Prototype Reactor Facility during 1968, 24:44509
monitoring in environs of West Valley Processing Plant, Oct. 1969 to Jan. 1970, 25:26355(R) (SRO-344-11)
monitoring in fallout, rain, and upper atmosphere in Japan following eleventh Chinese nuclear test in 1970, 25:37806 (NIRS-RSD-29)
monitoring in food and milk produced in environs of Savannah River Plant during July to December 1969, 25:21693
monitoring in gaseous and liquid waste effluents and water of Farmington River at S1C Prototype Reactor Facility during 1969, 25:21693
monitoring in gases surrounding contained nuclear explosion, method for, 25:54823(T) (UCRL-Trans-10543, pp 56-69)
monitoring in Goodyear Atomic Corporation environment, 22:18966(R) (GAT-553)
monitoring in ground- and surface-waters of Florida during 1965, fallout α and β, 23:12095
monitoring in high-background regions of Brazil, 22:2216
monitoring in human organs, use of radioisotope scanning for quantitative, 23:33723
monitoring in hydrologic environment from nuclear explosions, 24:22772 (SWRHL-82, pp 280-308)
monitoring in interstate carrier water supplies during 1967 to 1969, gross α and β, 25:21691
monitoring in Italian atmosphere, surveillance network for, 25:41937
monitoring in Japan from third Chinese nuclear test, 1966, 21:16012 (NP-16552)
monitoring in Japan, 1966, 21:36147 (NP-16800)
monitoring in Japan, Feb. 1967, 21:39054 (NP-16993)
monitoring in lower atmosphere and on ground in Italy during 1966, gross β, 22:49327 (PROT.-SAN.-01/67)
monitoring in lower atmosphere over Chicago area, 1960, 24:31485 (CEX-59.4.13)
monitoring in lower stratosphere during 1969, Project Airstream data on gross β, 24:25481(R) (HASL-224)
monitoring in lower stratosphere, Project Airstream for, 21:43057(R) (HASL-183)
monitoring in marine strata, 23:9901(T) (AEC-tr-6940)
monitoring in milk during 1965 to 1968, operation of Standby Milk Surveillance Network of SWRHL in relation to, 25:13443
monitoring in milk, sewage effluent, and surface waters in environs of St. Petersburg, Florida during 1967, 23:35751
monitoring in natural waters of Italy, 25:13106
monitoring in New Zealand, Oct. to Dec. 1970, 25:44452(R) (NRL-F-42)
monitoring in nuclear installation environments, equipment and methods for, 22:18973
monitoring in off-site atmosphere, soil, vegetation, and water, following Gasbuggy-2 Redrill, 24:44127 (SWRHL-105-r)
monitoring in off-site environment at Savannah River Plant during July to December 1969, 25:21693
monitoring in Osaka Bay since 1962, methods for, 24:48552
monitoring in Paris area atmosphere and rainwater, 25:48662 (LCA/MS-RAE-3/641)
monitoring in precipitation and surface atmosphere of Canada and US during March 1970, gross β, 24:46362
monitoring in precipitation and surface atmosphere in Canada and USA during August 1970, gross β, 25:21692
monitoring in precipitation and surface atmosphere in Central, North, and South America during February, 1971, 25:52056
monitoring in raw and treated water supplies in Minnesota during June to December 1967, α and β, 23:43781
monitoring in raw surface waters of New York State during July to December 1968, gross β, 24:2603
monitoring in raw surface waters of USA during February 1969, average gross α and β, 24:2603
monitoring in reactor buildings, survey of instrumentation for γ, neutron, and x, 23:29506(R) (THAI.-AEC-21)
monitoring in Rhine River in the Netherlands, 21:28441 (RA-14)
monitoring in Rhone River, 21:16091
monitoring in Romanian environment, equipment and methods for measurement of, 25:41928
monitoring in seawater following waste disposal, 23:50466
monitoring in surface air at selected world sites during 1963 to 1969, gross γ, 23:48043 (HASL-214(App.))
monitoring in surface atmosphere and surface waters at Argonne National Laboratory during 1969, α, β, and γ, 24:44509
monitoring in surface atmosphere at Bregenz, Klagenfurt, Salzburg, and Vienna during Oct. to Dec. 1969, 24:50466 (NP-18337)
monitoring in surface atmosphere at selected land and marine sites during 1963 to 1970, monthly averages of fallout gross γ, 25:8670(R) (HASL-237(App.))
monitoring in surface atmosphere at selected sites in western hemisphere during 1963 to 1970, monthly fallout gross γ, 25:16132(R) (HASL-239(App.))
monitoring in surface atmosphere in Canada, Pan America, and USA during November 1968, gross β, 24:2616
monitoring in surface atmosphere of Central and South America during August 1970, gross β, 25:21692
monitoring in surface atmosphere of Central and South America during March 1970, gross β, 24:46362
monitoring in surface atmosphere of Central and South America during November 1970, gross β, 25:42426
monitoring in surface atmosphere of Central and South America during October 1970, gross β, 25:42418
monitoring in surface waters of United States during June 1968, gross α and β, 23:31777
monitoring in surface waters of United States during October 1967, gross α and β, 23:12087
monitoring in surface waters of United States during September 1968, gross α and β, 24:2615
monitoring in surface waters of United States during January 1968, fallout gross α and β, 23:12095
monitoring in surface waters of US, 24:2310
monitoring in surface waters of USA during April 1968, gross α and β, 23:43781
monitoring in Tashkent ground-level atmosphere, 1966 to 1967, 25:41939
monitoring in vicinity of Savannah River Plant during January through June 1971, 25:57996(R) (DPSPU-71-30-16)
monitoring in Washington surface waters during 1968 to 1969, β, 25:42419
monitoring in water as parameter for medical classification, 24:46611
monitoring methods for airborne, 22:2232
monitoring of aerospace nuclear activities and nuclear device testing, Public Health Service programs for off-site, 22:51570 (NP-17401)
monitoring of airborne and waterborne, in environs of uranium tailings pile in Arizona, 24:31895
monitoring of airborne, in Project Buggy explosion clouds, 24:39079 (PNE-330)
monitoring of atmosphere, 24:9838
monitoring of atmosphere in North America during April 1967, 22:40693
monitoring of atmosphere, milk, seawater, and silt at Galveston during 1966, 22:40695
monitoring of atmospheric, design of recording equipment for, 24:48182
monitoring of background, in environs of Livermore, from June 1970 to March 1971, 25:49021(R) (UCRL-50007-71-1)
monitoring of environmental, at Mound Laboratory, Miamisburg, Ohio, Jan. through June 1967, 21:45246(R) (MLM-1425)
monitoring of environmental, at National Nuclear Research Center, Pelindaba, South Africa, 22:180 (PEL-89)
monitoring of environmental, in Euratom countries, 1966, 22:8221 (EUR-3602)
monitoring of environmental, in New Zealand, 1967, 21:43057(R) (HASL-183)
monitoring of fallout and natural, bioaccumulation of radioisotopes on granitic outcrops of Georgia Piedmont, 21:19759 (NP-16464)
monitoring of ground-level atmospheric, spacing of stations for, 22:25547
monitoring of nuclear powered ships in Sasebo Harbor Japan, government sponsored program for, 23:41323
monitoring of oysters in Texas during 1965 and 1966, α, β, and γ, 22:40691
monitoring of residual, at Alamogordo, 1961, 21:6025
monitoring of Savannah River Plant environs, 1967, 21:43055(R) (DPST-67-30-2)
monitoring of strontium-90 fallout, in Japan, 22:23167
monitoring of water and airborne, equipment and procedures for, 22:4288
monitoring of, in air by aerial surveying, 21:10470
monitoring of, in atmosphere in Illinois, 21:10860(R) (COO-1199-10)
monitoring of, in food and water supplies, methods for, 21:5761 (PHS-999-RH-17)
monitoring over Northern Chile during July to September 1968, profile of γ, 23:50459(R) (HASL-204)
monitoring program of Public Health Service, routine fallout, 23:12079
monitoring total β, in atmosphere in New Zealand and South Pacific during 1970, 25:46820 (HASL-243, pp III.1-35)
nuclear data tables for half-lives and decay modes, 25:1712
nuclear data tables on α, β, γ, x-ray, and Auger electron emission, 25:5716
origin of natural and artificial, in atmosphere, 21:187
prediction and measurement of ground-level, from Sterling Event, Dec. 1966, 23:461 (VUF-1037)
presence of, standard symbol for designating, 25:32201
production by nuclear explosives for mining and public works, 22:45209 (UCRL-7870)
production by thermal and fission neutrons, graphical technique for estimating, 22:18724
production by underground nuclear explosions, effect of explosive design on, 21:36189 (UCRL-50276)
production by underground nuclear explosions, estimates for proposed Transisthmian Canal, 21:45276
production by underground nuclear explosions, method of calculating for carbonate rocks, earth's crust components, and salt domes, (T), 22:21225 (HNS-1229-54)
production of new-type, from proton reactions with aluminum and tungsten at 70 GeV, upper limits for cross sections for, (E), 25:38657
protection from, design of movable shielded cabin for, 21:10563(P)
proton emission in, review, 21:15525
rate equations for, recurrence formula for, (T), 25:39129
reduction of underground nuclear explosion-produced, review of methods for, 24:41551 (CONF-700101-(Vol.2), pp 1563-8)
release during SEDAN nuclear excavation project, 23:11683
release from contained underground nuclear explosions, methods for control of, 24:41476 (CONF-700101-(Vol.1), pp 75-88)
release from Project Plowshare applications, safety evaluation of, 24:41489 (CONF-700101-(Vol.1), pp 375-80)
release from underground nuclear explosions, method for prediction of, 23:21838 (CONF-690312-1)
release in upper atmosphere in burnup of isotopic power generators, effects of, 21:26117
release of, by underground nuclear explosions, 21:16037
release of, environmental effects of prolonged, 21:14326 (BNWL-SA-1058)
release of, in nuclear excavations, studies to minimize, 21:10493(R) (UCRL-50008-66-2)
removal by filtration, filter holders for, 21:8508
removal from city and home water supplies, statistical studies of, 21:41001
reports on fallout and natural, from USSR, translations of, 24:12023(T) (AEC-tr-7128)
research at University of Arkansas, progress report on, 24:52477(R) (ORO-3235-55)
research on marine, at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
research on marine, at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
review of basic concepts in, (T), 21:46789 (NP-16903)
review of basic concepts in, (T), 21:46787 (NP-16901)
sampling and analysis for, in Sweden, 1963 to 1964, 21:192
sampling of atmospheric, during airplane flight, 21:388
sampling stratospheric, air ejector filter sampler for, 21:8464
scanning scan records of body tissue, with double photocell structure, 21:26321(P)
scheme for computer calculation of de-excitation of highly excited nuclei, 21:31868
search for new-type, in proton reactions with aluminum and tungsten at 70 GeV, (E), 25:14541 (JINR-P1-5399)
simulation device for, principles and operation of electronic, 21:39076 (NP-16770)
simulation of, mathematical model for computer, (T), 25:54441

sorption of natural, in soils, (E), 21:45240
sources of artificial and natural, review of, 21:16022
sources of atmospheric, review of artificial and natural, 23:7648
stack disposal of, effects of meteorological conditions and stack height on, 21:14333
standardization of, review on, 25:34818
standards for, determination and use of, 23:4785
standards for, development of US, 25:32131
standards for, measurement methods for developing, 22:6547
standards of, certificates of, 25:29173
tables of electromagnetic transition rates in $A < 41$ nuclei, 21:40409
transport from stratosphere to troposphere of, meteorological factors affecting, 21:4622 (COO-1340-8)
transport in seawater, Fourier transform method for calculation of, 23:35352
transport of, by oceans, 21:8807(T) (AEC-tr-6641, pp 105-14)
transport through tropopause, 21:36159
uptake by respiratory system of man during inhalation of labeled aerosols, effects of particle size on, 23:6480
use of artificial and natural, as tracer of stratospheric air, 22:33570
use of artificial and natural, for age estimation of Antarctica snow, 22:18916
use of natural, in locating ground waters, 22:2195
use of natural, in measuring water in snow, 22:35925(T) (ORNL-tr-1935)
use of natural, in soils for measuring snow-water reserves, 22:16699
variation of natural, with sulfur content of petroleum and asphalt, 21:173

RADIOAPPLICATORS
see also Particle Sources
see also Radiation Sources
activity per unit length of wire, design of detector for measuring, 23:24441(P)
analysis of cobalt-60, for radioimpurities by neutron activation and scintillation counting, 24:50359
assay of seed-type, for use in therapy, 23:5003
comparison of cesium-137, cobalt-60, iridium-192, and radium-226, 25:16260 (SZS-18/70)
complications following use of pituitary implants, 21:24644
coordination measurements using single film in implant therapy, 21:20209
design and use of reactor-activated, for phosphorus-32 β-radiotherapy of conjunctival neoplasms, 23:41396
design for intracorporeal vascular exposure, 24:36794(P)
design for local radiotherapy of animals and man, 25:51726(P)
design for therapy of body organs, 25:51729(P)
design for use in interstitial therapy, cesium-137, 21:45733
design of, 25:21787(P)
design of afterloading, for treatment of human carcinomas of uterine cervix, 25:11227
design of californium-252 implantable, for use in neutron therapy, 21:39464
design of cesium-137 and cobalt-60, with rational closure system, 23:49998
design of cesium-137, for use in therapy, 24:21252
design of cobalt-60, for use for therapy of retinoblastomas, γ, 23:50788
design of cobalt-60, in Hungary, review of, 21:45706
design of cobalt-60, with afterloading technique, for implant therapy of human gynecological neoplasms, γ, 23:33801
design of colpostat, for application of radium in therapy of uterine carcinomas, 22:28590
design of high dose-rate cobalt-60 γ, for use in contact therapy, 23:29679
design of implantable assembly containing, for irradiating body fluids, 25:13529(P)
design of iodine-125, for use in radiotherapy, 22:4662(P)
design of iridium-192, for contact therapy of neoplasms of human ears, nose, and throat, β, 23:50789
design of iridium-192, for endoscopic therapy for tumors of human larynx, 23:38720
design of lead-radium, for therapy of neoplasms of human penis, 23:26856
design of phosphorus-32 plastic, 24:383
design of portable, for iridium-192, 21:6600
design of radium, for intrauterine therapy, 21:26524
design of radium, for irradiation of palatal neoplasm, 21:26488
design of radium-226, for therapy, 25:42590
design of variable-size afterloading radium-226, for use for γ implant therapy of neoplasms of human uterus, 25:8736
design of wire, for interstitial therapy in man, 23:33796
design of, for nasopharyngeal cancer treatment with radium needles, 21:406
design of, U.S. patents 1950 through 1968, 25:34777 (ORNL-IIC-34)
development for use in therapy of cancer, review of, 24:12203
development of cesium-137 γ, for treatment of skin cancers, 24:34562
development of cesium-137, for use in therapy, 21:22441
development of Curietron, for human gynecological therapy, 25:21792
development of gold-198, with guided template for implant therapy of head and neck tumors in man, 25:24293
development of iridium-192, for contact therapy of neoplasms of human larynx, β, 24:17115
development of iridium-192, for implant therapy, 25:46932
development of yttrium-90 β, for contact therapy of human eye tumors, 25:21783
dose calculations for cobalt-60 eye applicators, 21:22484
dose calculations for radium-226, use of computers for γ, 25:19004
dose distribution around Ogier-Scarpa uterovaginal, electronic calculation of, 25:24169
dose from radium, to adjacent areas, methods for controlling, 21:11052
dose rate from strontium-90—yttrium-90 β, used for therapy, effects of aluminum foil shielding on, 22:51787
dosimetry following extracorporeal exposure of blood, 24:48438(R) (TID-25490)
dosimetry for gynecological therapy in man, isodose charts for, 23:33727
dosimetry for nylon thread with cobalt-60 beads, use of computers for γ, 23:31789
dosimetry for use in therapy, 21:24436
dosimetry of intracavity californium-252 and radium-226, 24:32015
dosimetry of radium needles for interstitial radiotherapy, computer program for calculating, 23:29525
dosimetry of radium, computer program for, 21:43386
dosimetry of radium, use of thermoluminescent detectors for, 21:43395
dosimetry of radon seed, computer program for, 21:43396
dosimetry of sealed β, 21:10891
dosimetry of solid wire cobalt-60, 24:46644
dosimetry of yttrium-90 implants used for pituitary ablation, 21:22545
dosimetry of yttrium-90 implants, used for pituitary ablation, 21:22544
effectiveness for interstitial therapy of human tongue carcinomas, 25:46939
effectiveness of iridium-192 and radium-226, for treatment of carcinomas of human mouth, comparison of, 25:21804
effectiveness of iridium-192 for interstitial and plaster cast, 24:51009
effectiveness of iridium-192, for therapy of human neoplasms, γ, 23:31864
effectiveness of iridium-192, for therapy of neoplasms of human mouth and tongue, 25:19080
effects of use of, following cobalt-60 beam therapy on choroid melanomas, 21:6587
effects of yttrium-90 and gold-198, in pituitary ablation, late pathological, 21:12933
effects on skin of rabbits, comparison of cesium-137 and radium-226, 23:35755
implantation of interstitial radioactive wire, in man, 23:33796
implantation of radium, local anesthesia for uterine, 25:16268
implantation using afterloading techniques, 25:19076
iridium-192 wire, for use in interstitial therapy, 24:7969
leak testing of encapsulated radium, use of superfluid helium method for, (E), 22:6814
leak testing radium-226, by gamma counting radon daughters, 25:19016
performance of gold-198 and yttrium-91, for human pituitary ablation, 24:41936
performance of strontium-90—yttrium-90, for extracorporeal blood exposure in relation to dosimetry and radiation hazards, 25:46938
performance of welded radium cell, for intracavitary therapy of female genital carcinomas, 25:8729 (SZS-6/70 (pp 1-8))
preparation and application of γ-emitting, for interstitial therapy, methods for protection of medical personnel during, 25:8689 (SZS-6/70 (pp 19-27))
preparation of beta, 22:38349
preparation of requirement for isodose curve deformation in, 25:8730 (SZS-6/70 (pp 28-35))
preparation of silicone-enclosed radium, for therapy, 22:45652
protection of nursing personnel against radium, during gynecological application, 23:50562
radiation dose calculations for cobalt-60, for eyes, 23:8030
radiation dose distribution for different configurations of, in therapy of human cervical cancer, 23:12061 (CNEA-215)
radiation dose from, received by medical personnel during insertion of radium, 21:22442
radiation dose from, used for interstitial therapy of brain neoplasms, 21:22546
radiation dose rate from cobalt-60 gamma, performance of rate meters for measurements of, 25:58010
radiation dose to medical personnel inserting radium, γ, 21:28486
radiation dosimetry of, castings for iridium, 25:8684
radiation hazards from radium tampons used for gynecological tumors, 21:26450
radioactivity linear distribution in wire and pin, device for measuring, 23:4991
radioisotopes for, evaluation of, 21:20214
radioprotection qualities of strontium-90—yttrium-90 beta, 22:51183
radiosterilization of radium, dose requirements for, 21:18198
shielding of radium needle, during sterilization, storage, and threading, design of container for, 22:43340
thorium-228 content in Thorotrast, γ spectrometric studies on, 25:44814
use for contact therapy, strontium-90 β, 22:51783
use for implant and interstitial therapy, development of after-loading techniques and computer calculation of dose for, 25:37851 (A/CONF.49/P-91)
use for interstitial therapy of female gynecological carcinomas, preference for cesium-137 over radium in, 25:8730 (SZS-6/70 (pp 28-35))
use for therapy of basilomas and hemangiomas, β, 21:26546
use for therapy of eye neoplasms, strontium-90—yttrium-90 β, 23:50790
use for therapy of human cervical cancer, comparison of cesium-137 and radium, 23:31881
use of β, for ablation of pterygia, 23:14229
use of computer methods for dose calculations of, 21:6532
use of flexible rubber, for treatment of cervical carcinomas, 21:12993
use of gold-198, iridium-192, and yttrium-90 for therapy of brain tumors, 23:41399
use of intrauterine radium, positioning problems in, 21:22491
use of iridium-192, for interstitial and surface therapy, effectiveness and safety requirements for, 25:49261
use of lead scleral shell, with phosphorus-32 for therapy of conjunctival neoplasms, 25:8731
use of plastic, for therapy of cervical cancer, 23:35828
use of radioactive microspheres, for measuring blood circulation in heart of dogs, 24:6095
use of radium filtered with monel, for therapy of menopausal bleeding, 21:6577
use of radium ovoid, for cervical carcinoma, 21:22492
use of radium-226, for contact therapy of carcinomas of human penis, γ, 25:26863
use of remote afterloader, for intracavitary treatment of cancer in man, 23:885
use of sealed β, 21:10891
use of sealed β, for therapy of skin lesions, 21:10944
use of strontium-90 needle tip-type, for stereotaxic hypophysectomy of swine pituitary, 21:22744
use of strontium-90, combined with surgery, for treatment of pterygium, 21:22553
use of strontium-90, for local therapy of hemangiomas, 21:8857
use of strontium-90, for postoperative therapy of benign diseases of human eye, β, 23:50751
use of strontium-90, for therapy of pituitary gland, dose distribution during, 23:20230
use of, in radioisotope treatment of head and neck cancer, review of, 21:16393
use of, in treating maxillary cancer, method for, 21:14685
yttrium-90, for treating diabetic retinopathy secondary to diabetes, 21:22605

Radioautography
see Autoradiography

RADIOBIOLOGY
accident and health surveys, 21:8793 (MIT-952-3, pp 318-33)
bibliographies on, 21:41473 (AED-C-04-29)
bibliographies on radiation effects on living tissues and organisms, 21:28335 (AED-C-04-27)
bibliographies on space, 21:16429 (N-66-33446)
bibliography of literature on Soviet, 23:5030 (AD-671436)
bibliography of reports on, issued by University of Rochester, 1966, 21:26562(R) (UR-49-748)
bibliography of Soviet literature on, 22:4637
bibliography on, 21:32729 (AED-C-04-28)
bibliography on, 21:32728 (AED-C-04-26)
bibliography on effects of ionizing radiation, 21:4843 (TID-3097)
bibliography on ESR in, 21:22354
bibliography on neoplastic cell, 25:46929 (NEIC-RR-42(Vol.5))
bibliography on use of radioisotopes in, 21:20030 (TID-3585)
bibliography on, indexes to, 21:30919 (TID-3099)
bioassay sampling in, probabilistic method for evaluation of, 22:51634
biophysical aspects of radiation quality for, 21:12845 (STI/DOC-10/58)
book: Advance in Biological and Medical Physics, Vol. 12, 23:50822
book: Annual Review of Medicine, 25:2575
book: Applications of Nuclear Physics, 25:28379
book: Applied Radiobiology Volume I, 21:45766
book: Atomic Radiation and Its Effects on Health, 21:11111
book: Bases of Nuclear Medicine, 23:6606
book: Basic Radiation Biology, 23:20109
book: Biological Effects of Fast Neutrons, 25:13568
book: Biophysics and Radiobiology. Issue 2. Mechanism of Biological Effects of Ionizing Radiation, 24:12219
book: Cells and Tissues in Culture-Methods Biology, and Physiology, 21:41376
book: Chemical and Biological Action of Radiations, 24:34574
book: Conference on Radiobiology and Radiotherapy, 21:36682
book: Current Topics in Radiation Research, 22:40878
book: Current Topics in Radiation Research, Vol. 5, 23:38775
book: Early Radiation and Biochemical Reactions, 22:40612
book: Effect of Ionizing Radiation on Heredity, 22:21473
book: Effects of X Irradiation on the Higher Nervous System in Dogs, 21:32791
book: Elimination of Radioactive and Stable Metal Ions. Therapeutic Principles, 23:35709
book: Environmental Effect of Ionizing Radiation, 23:5009
book: Experimental Post-Irradiation Syndrome, 22:52002
book: Frontiers of Radiation Therapy and Oncology, 23:41415
book: Health Physics. Principles of Radiation Protection, 21:20228
book: High-Frequency Electromagnetic Radiation; Biological Effects and Health Protection, 22:23673
book: Laboratory Training Manual on the Use of Isotopes and Radiation in Animal Research, 21:12750 (STI/DOC-10/60)
book: Mechanisms Functioning in the Development of Radiobiological Effects, 25:21749
book: Molecular Radiation Biology, 24:48405
book: Molecular Radiation Biology, 25:46721
book: Neutrons in Radiobiological Experiments, 21:38869

book: Physical and Radiobiological Investigations of Artificial Satellites of the Earth, 25:55342
book: Physical Techniques in Biological Research. Vol. II, part B. Physical Chemical Techniques, 25:46493
book: Principles of Radioisotope Methodology, 21:12373
book: Problems in Radiobiology, 25:55134
book: Problems in Space Biology. Vol. XIV. Radiobiological Aspects of the Response of an Organism to Space Flight, 25:46979
book: Problems of General Radiobiology, 22:23650
book: Problems of Ionizing Radiation Effects on the Cardio-Vascular System, 21:34811
book: Problems of Space Biology, Vol. IX; Outlines of Space Radiobiology, 25:21918
book: Proceedings of Iowa Academy of Science for 1969, 24:39561
book: Progress in Biomedical Engineering, 22:49416
book: Protection Against and Repair of Radiation Injuries, 21:10999
book: Radiation Biology, 23:9853
book: Radiation Biophysics and Plant Radiobiology, 23:50356
book: Radiation Medicine, 25:11091
book: Radiation Toxins: Their Nature and Role in the Biological Effect of High-Energy Radiation, 22:40944
book: Radiobiological Experimentation and Man, 25:24438
book: Radiobiological Factors in Manned Space Flight, 22:6917
book: Radiobiological Methods, 21:32792
book: Radiobiology of Human Cancer Radiotherapy, 23:4984
book: Radiobiophysics of the Nucleoproteins, 25:42274
book: Radioecology of Aquatic Organisms, 21:20115
book: Radiotoxins, Their Properties and Role in the Biological Effects of High Energy Radiation, 21:36745
book: Reports on Biological Role of the Reticular Cells of the Marrow during an Acute Radiation Sickness, 22:45691
book: Structural Metabolic Hypothesis in Radiobiology, 25:24046
book: The Physics of Radiology, 24:46646
book: The Principles of Radiation Biology and Biochemistry, 23:5007
book: The Radiobiology of Cultured Mammalian Cells, 21:45834
book: The Use of Hit Theory in Radiobiology, 23:5008
book: The Year Book of Radiology, 1969, 23:43815
book: Tracing Life Processes with Radioisotopes: Experiments in Biological Science, 22:16973 (NYO-3247-4)
book: Transplantation Immunity and Radiation Chimeras, 22:425(T) (AEC-tr-6726)
book: Tritium Oxides, 23:4881
book: Updating of Radiobiology, 22:33877
book: Use of Radioisotopes in Biological Studies, 21:20021 (CMN-Pub-2/66)
book: Use of Various Biophysics Methods in Selective-Genetics Studies, 23:35590
book: Year Book of Nuclear Medicine 1967, 23:4982
book: Year Book of Nuclear Medicine 1968, 23:4983
chemical reactions in, effects of bound water molecules on, 21:12782
conference of Japan Radiological Society, 23:45799
conference on bioassay and analytical chemistry, Los Alamos, New Mexico, Oct. 9 and 10, 1969, 24:4230 (LA-4271)
conference on effects of dose rate on radiosensitivity of mammals, 22:49467 (CONF-680410)
conference on energetics and mechanisms in, Portmeirion, Wales, April 1967, 23:35184
conference on engineering developments for, abstracts of papers from, 25:29584
conference on neutron dosimetry for, 25:6689 (CONF-691106)
conference on photobiology, abstracts from 1968, 24:19297 (CONF-680843-(Absts.))
conference on radiation transport and biological effects, 21:32730 (ANS-SD-4)
conference on research in, in Germany in 1969, 24:41935
conference on, abstract of papers from, 25:29607 (CONF-690940-(Absts.))
conference on, abstracts of, 25:42584
conference on, in relation to veterinary medicine, 25:24202
conference on, Nordic Society for Radiation Research and Technology, Risoe, Feb. 1971, abstracts from, 25:20998 (RISO-M-1332)
conference on, of fetal and juvenile mammal, 24:23310 (CONF-690501)
conference on, Radiation Research Society, 24:6029
contribution of research in, to standards for radiation protection of man, 22:8520 (CONF-670305-, pp 192-6)
contributions to clinical radiotherapy, historical review of, 24:44579
data from manned space flights in, 22:51872 (LA-3848, pp 62-74)
development in Japan, 22:18659
development of cellular, in Soviet Union during 1917 to 1967, 22:14952
development of, of fresh waters, 21:8763
developments in cellular physiology, 21:16261(R) (EUR-3059.f)
developments in Federal Health Office in Germany, 25:21678 (NP-18631, pp 122-35)
developments in Federal Health Office, Germany, 25:21677 (NP-18630, pp 103-11)
developments in relation to radiotherapy, review of recent, 23:932
dose-effect relations in, review of, 23:8059
dosimetry methods in, review of, 22:23529
dosimetry nomenclature in, use of ionendosis in, 22:45555
dosimetry techniques in, methods for determining accuracy of, 22:49361
effects of artificial and natural electromagnetic fields on living organisms, 24:27661
electron spin resonance studies in, 23:35652
energy transfer in, relation of, to target theory, 21:12872
environmental factors in, symposium on, 1967, 23:17963 (CONF-670503)
equipment and procedures in, evaluation of, 22:23430
facilities for research in, in Soviet Union, 22:40820
facility for research in, description of 2000-Ci cesium-137, 22:219
factors influencing high-energy electron dosimetry, 23:50496
gamma sources and methods used at Brookhaven National Laboratory for plant, review of, 21:3453
hit hypothesis in, (T), 21:20020 (BNWL-SA-1032)
iodine-132 uses in, review of, 23:29601 (ORNL-IIC-4)
mammalian cell, review of, 21:20405
measurement in, units for, 22:17024
mechanisms in, role of molecular lesions in, 23:35848
meson facility design for studies on, 22:49409
methods for, conference on, 21:45743
molecular mechanisms in phenomena of, 25:35101
molecular processes in, 25:29132(R) (NYO-3558-24)
oxygen effects in cellular, development of mathematical models for steady-state and time-dependent diffusion for, 23:38616
particle track structure and its role in, 25:21586
physical mechanisms in, analysis of, 21:28337 (BNL-11358)
principles of, in relation to radiotherapy, review of, 21:45762
principles underlying radiotherapy, review of, 22:40790
processes in, symposium on very early, 24:36267 (COO-38-738)
programs for space, in USA and USSR, 22:47582
progress in developmental, 24:23353 (CONF-690501-, pp 1013-15)
progress in studies on, at California University, Lawrence Radiation Laboratory, 21:12952(R) (UCRL-16898)
progress report for fiscal 1966 of Western Research University School of Medicine on, 21:8670(R) (COO-78-142)
progress report for ORNL, 22:28628(R) (ORNL-4100)
progress report of Biology Division of Oak Ridge National Laboratory, 21:10235(R) (ORNL-3999)
progress report of U.S. Health, Education, and Welfare Division of Biological Effects, 1968, 23:33804(R) (PHS-PUBL.-1809)
progress report on, 21:14523(R) (BNWL-280)
progress report on, at UCLA, 21:20032(R) (UCLA-12-612)
progress report on, at Univ. of California, Berkeley, 23:29314(R) (UCRL-18347)
progress report on, from University of Utah, College of Medicine, 21:24286(R) (COO-119-235)
radiation chemistry processes in, 23:13772
radiation chemistry uses in, review on, 23:35159
radiation response in, kinetic model for, 21:23314 (BNL-994, pp 70-102)
radioinduced peroxides in, review of effects of, 21:14601
radioisotope-labeled drugs for, review of development of, 23:17915
radioisotopes in, review of, 22:36309
radiolysis techniques in, pulse, 23:35176
reactions in, effects of oxygen on, 21:14563(T) (NP-tr-1479)
recovery and repair mechanisms in, symposium on, 23:20315 (BNL-50058)
research activities at UCLA from July 1969 to July 1970, 25:4425(R) (UCLA-12-782)
research activities in Belgium during 1968, 24:9079(R) (NP-18052)
research activities of Bureau of Radiological Health during 1970 on, 25:24330(R) (BRH/DBE-70-7)
research and development at Puerto Rico Nuclear Center, 1968, 23:37857(R) (PRNC-131)
research and development in Puerto Rico, 1969, 25:8574(R) (PRNC-140)
research at Argonne Cancer Research Hospital, semiannual report on, 23:29558 (ACRH-30)
research at Argonne National Laboratory in, 1968 annual report of, 23:45859(R) (ANL-7535)
research at Argonne National Laboratory, progress report for 1970, 25:37863(R) (ANL-7770)
research at Argonne National Laboratory, progress report for 1969, 24:41948(R) (ANL-7635)
research at Argonne National Laboratory, progress report for 1966, 22:28271(R) (ANL-7278)
research at Battelle Pacific Northwest Laboratory, annual report for 1968 on, 24:34179(R) (BNWL-1050(Pt.1))
research at Battelle-Northwest during 1967, 23:6433(R) (BNWL-714)
research at BNL, July 1968 to June 1969, 24:18056(R) (BNL-50169)
research at Center for Nuclear Energy Studies in Belgium, 23:2068(R) (NP-17579)
research at Chalk River Nuclear Laboratory on, 24:39450(R) (AECL-3451)
research at Columbia Univ., July 1, 1970, 25:8676(R) (NYO-2740-7)
research at Columbia Univ., July 1, 1971, 25:55205(R) (NYO-2740-8)
research at Columbia University, 23:48045(R) (NYO-2740-6)
research at Columbia University, report on, 22:49325(R) (NYO-2740-5)
research at CRNL in Canada during 1969, 24:41754 (AECL-3430, pp 5-18)
research at Dacca, July, 1968—June, 1969, 24:36639(R) (AECD/MISC-2)
research at Grenoble Nuclear Center, use of Chlorella in, 24:34757
research at Harwell during 1969, 24:44473(R) (AERE-PR/HPM-14)
research at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
research at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
research at Inst. of Nuclear Research, Warsaw, 1968, 23:51857(R) (INR-1100)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at Laboratory of Nuclear Medicine and Radiation Biology, University of California, during January to July, 1968, 23:9842(R) (UCLA-12-686)
research at Lawrence Radiation Lab on, semiannual report, fall, 1968, 24:29776(R) (UCRL-18793)
research at NRTS during 1968, 23:41316 (IDO-12071, pp 25-31)
research at Puerto Rico Nuclear Center, description of, 23:41365 (CONF-670338, pp 299-314)
research at U.S. Public Health Service, progress report for 1969, 24:41957(R) (BRH/DBE-70-1)
research at UCLA, progress report, 23:26830(R) (UCLA-12-706)
research at University of California at Davis during 1968, 23:12197(R) (UCD-472-115)
research at University of California during January through June 1969, 23:48006(R) (UCLA-12-724)
research at UT-AEC Agricultural Research Laboratory, 22:40826(R) (ORO-657)
research at Utah University, annual report of, 23:11975(R) (COO-119-237)
research by Cancer Research Department of the Westminster Hospital, Great Britain, in 1968, 24:2702
research by Christies Hospital and Holt Radium Institute, Great Britain, in 1968, 24:2710
research by flash photolysis and pulse radiolysis, 23:28870 (BMwF-FBK-69-11)
research by Mount Vernon Hospital and Radium Institute, Great Britain in 1968, 24:2697
research by Oak Ridge Associated Universities in, during 1968, 23:35765(R) (ORAU-107)
research conducted by military pharmacists, review of, 22:51829
research for improvement of radiotherapy techniques, review of, 21:45745
research in agricultural, 25:16307(R) (ORO-678)
research in applications of closed circuit television in reactor, 25:16359 (AD-710375)
research in applied and basic, in Egypt, 24:44387
research in Belgium during 1966, 23:28561(R) (NP-17819)
research in cellular, mammalian, and molecular, 22:51303(R) (LA-3848)
research in developmental, discussion of, 24:23347 (CONF-690501-, pp 913-16)
research in developmental, scope and summary of, 24:23311 (CONF-690501-, pp 1-6)
research in Hungary, status of, 25:52125 (A/CONF.49/P-324)
research in Japan, 22:31155
research in mammalian, in relation to neoplastic diseases, abstracts of conference on, 24:14558
research in Pakistan, 1967—1968, 24:36647(R) (NP-18125)
research in Poland during 1965, 21:39444(R) (NEIC-RR-24)
research in Poland in medical, 23:45778(T) (TT-68-50006/6)
research in relation to atomic energy, objectives of, 24:9751 (CONF-690303-, pp 23-9)
research in relation to cosmic radiation, 24:846
research in relation to use of high-energy electrons in therapy, 23:50763
research in relation to uses in radiotherapy, review of, 24:811
research in Russia, outline of five-year plan for, 21:39537
research in Soviet Union during 50 years, review on, 22:4638
research in, 5 MV Van de Graaff accelerator facility for, 23:49236 (NYO-2740-6, pp 209-33)
research in, biophysical aspects of, 22:51323
research in, biophysical aspects of, 23:50823
research in, chronological evaluation of, 22:25992
research in, conference on biochemical aspects of, conference on, 24:50746
research in, description of gamma irradiation facilities for, 23:19884
research in, design of demountable soft x radiation source for, 23:45594
research in, evaluation of methods for, 24:50656
research in, progress report on, 21:45661(R) (ORAU-101)
research in, review of problems in biochemical and biophysical, 22:40568
research in, sources of variability in experimental, 22:33944
research in, use of Marmosa for, 23:12051 (UCD-472-115, pp 104-5)
research on, 23:16223(R) (NIRS-7)
research on human thyroid gland, discussion and review of, 21:18165
research on internal source, Utah Univ, 25:23938(R) (COO-119-242)
research on marine, in United States, survey of, 24:34214
research on medical aspects of, conference on, 23:16367
research on oxygen effect in, 24:7924
research on plutonium in, bibliography on, 21:21858 (BNWL-411)
research on space flight, in USSR, 25:16213(T) (JPRS-52121)
research on, 1967 summary of French, 23:4460 (NP-17597, pp 7-39)
research on, IAEA contracts for, 25:37826 (STI/DOC-10/125)
research on, IAEA sponsored, 24:39470 (STI/DOC-10/105)
research on, publications list for 1968, 23:50236(R) (UR-49-1070)
research on, pulse radiolysis studies in, 23:35157

research on, review of AEC, 22:21017
research program and progress at Saha Institute, Calcutta, 21:27995(R) (NP-16755)
research program in, at Lawrence Radiation Lab, 23:7934(R) (UCRL-18066)
research program, joint NASA-AEC, 22:31207(R) (UCRL-17751)
research programs at Argonne Cancer Research Hospital during 1970, 25:16234(R) (ACRH-34)
research programs at Juelich on, 21:14127(R) (NP-16420)
research programs in Bulgaria, 25:39878(T) (JPRS-53218)
research programs in Great Britain, progress report on, 22:49355
research programs in, in Soviet Union, 21:20330(T) (AEC-tr-6771)
research programs of AEC during 1970 on, 25:44293 (TID-25728)
research programs of Chalk River Nuclear Laboratories, Canada, review, 24:23223 (AECL-3254)
research programs of National Institute of Radiological Sciences, Japan, 25:21771
research programs on, applicable to radiotherapy, 21:12891 (BNL-9598)
research programs on, at Karlsruhe, 21:12210
research programs on, in Puerto Rico, 21:41151(R) (PRNC-82)
research progress on human, 25:21905(R) (ANL-7760(Pt.2))
research report on heavy ion and particle, at United Kingdom Atomic Energy Authority, 23:29712(R) (PG-Report-897)
research sponsored by AEC, summaries of, 21:22771
research studies at Univ. of California, Los Angeles, 1970 and 1971, 25:49080(R) (UCLA-12-815)
research trends in, review of, 23:20317 (CEA-R-3676)
responsibilities of Division of Biology and Medicine of AEC in, review of, 22:51605
review in relation to medical problems, 23:45939
review of Atomic Bomb Casualty Commission research programs on, during July 1968 to July 1969, 25:11237(R) (ABCC-68-69)
review of general in relation to applications to radiotherapy, 24:6096
review on future research in, 22:49483 (CONF-680410-, pp 25.1-4)
role in health physics, review of, 22:10778
role of cell population kinetics in, 22:21579
ruthenium reactions and transfer in, bibliography on, 22:51486 (CEA-Bib-123)
sensitivity of, mathematical derivation of, 21:34425
space exploration problems relating to, review of, 24:899
standards for epidemiological studies on, of man, review of, 22:10848
Stebel γ apparatus in experimental, 22:51620
studies at molecular, cellular, and organismic levels, 22:43208(R) (UCSF-10-P-2-39)
training courses in, for hospital residents in gynecology, 23:41477
training program for teachers, 21:39485 (CONF-650847)
training programs at Chalk River Nuclear Laboratories, 22:2502 (AECL-2665)
training programs at Puerto Rico Nuclear Center, 22:23481(R) (PRNC-102)
translation of Radiobiologiya, 5: No. 6 (1965), 21:11010(T) (AEC-tr-6603)
translation of Radiobiologiya, Vol. 6, No. 1, 21:10240(T) (AEC-tr-6770)
use in study of animal reproduction phenomena, 23:29294 (CONF-670649-20)
use in therapy, book on, 21:30861
use of basic concepts of, in medicine and radiation protection, 21:12831 (CMN-Pub-2/65)
use of laser radiation in, 24:2569
use of liquid scintillation systems in, 21:12923
use of principles of, in human radiation protection, 21:6519
use of radiometric analysis for, 21:12833 (CONF-651008)
use of, as basis for tumor radiotherapy, 21:4836
uses in cancer research, conference on, 22:43425
whole-body counting in, review on use of, in Poland, 21:32395

RADIOCHEMICAL ANALYSIS
see also Radiometric Analysis
accuracy in low level, 22:43301 (AERE-R-5474)
bibliography on procedures for, 21:30351 (NYO-4700(2nd Ed.))
bibliography on, 1966-69, 24:27022
book: Automatic Analyzers of Radiochemical Media, 21:34529(T) (AEC-tr-6715)
book: Methods of Radiochemical Analysis, 21:14172
book: Radiochemical Methods of Enzyme Assay, 22:42622
book: Substoichiometry in Radiochemical Analysis, 22:27618
calculations for, computer program for, 24:2100 (IN-1316, pp 41-59)
computer uses in, 21:22011
developments in, 24:13766 (NBS-TN-501)
equipment and methods for, developments in, 21:5756(R) (NBS-TN-404)
equipment for insect, design of microcage specimen holder, 23:35366
equipment for, performance of Compton-suppression lithium-drifted germanium gamma spectrometer, 23:50163 (BNWL-1051(Pt.2), pp 121-7)
equipment for, remote-handling, 24:26995 (UJV-2315-A-Ch)
gamma spectra analysis for, computer program for, 25:46456
gamma spectrometers for, performance of Compton suppression, 25:46451
handbook on, Southwestern Radiological Health Laboratory, 24:36173 (SWRHL-11)
isotopic exchange reactions in, 21:21955
laboratory for, design of, 24:36143 (CEA-N-1241, pp 3-83)
manual of methods for, of biological and environmental samples, 21:30351 (NYO-4700(2nd Ed.))
method for products of carbon dioxide—graphite reactions, in-pile, 23:34057
methods and instruments for, lectures on, 25:6273 (MLM-1324)
methods for use in fuel reprocessing, 22:39984 (KR-126, pp 153-71)
methods in, 22:37678
methods of, review of, 23:38199
methods using γ-ray spectrometry and computers, 22:37693
peak location and energy measurement in, computer uses for, 22:33203 (AAEC/TM-437)
reliability of environmental contamination, 24:7785
research in, 23:9307 (ORNL-4343, pp 94-7)
research on, conference on, 23:4587
resolution of complex decay curves in, iterative procedure for, (E/T), 22:7746
review in fuel reprocessing plants, 22:39983 (KR-126, pp 143-52)
scintillator for, use of 2,2'-p-phenylenebis[5-tolyoxazole], 22:45292
sensitivity, principles, and uses of, review on, 25:26186 (BARC-529)
techniques based on substoichiometric separation, automation of, 22:40050
use for determination of radioactive iodine in plants, 23:6398
uses in industry, 23:37870
uses in industry, review on, 24:11476
wet ashing method for biological materials in, 24:7416

RADIOCHEMICAL PROCESSING PLANTS
see also Atlantic Richfield Reprocessing Plant
see also Barnwell Nuclear Fuel Processing Plant
see also Midwest Fuel Recovery Plant
see also West Valley Processing Plant
accidents in, medico-legal aspects of, 21:26436
accountability data for irradiated fuel dissolution in, 24:20845 (BNWL-CC-2346(Rev.))
accountability system for plutonium fuel, analysis of, 25:21297
accountability system for reactor fuel, design criteria for, 25:21305
air cleaning facilities at Y-12, survey of, 22:42938 (Y-EF-170)
alarm system for Eurochemic, design and operation of criticality, 24:31553
automation of, advantages and economics of, 24:2263 (CEA-CONF-1316)
book: Automatic Control of Technological Processes in Radiochemical Industry, in Russian, 25:6411
calcination facility of, corrosion of stainless-steel loop by sodium—potassium eutectic in heat exchanger of, 23:8109 (IN-1185)
californium recovery system of transuranium, development of tantalum process valves for, 21:34522 (ORNL-4091, pp 102-35)
capacity of Eurochemic, relations with reprocessing costs, 24:46463
computer uses in La Hague, 24:16640
configuration of Thorium-Uranium Recycle Facility, description of, 23:2034 (ORNL-TM-2377)
construction and design of TURF, 23:16069 (ORNL-4275, pp 4-14)
construction and operation of pilot, for concentration and drying of liquid radioactive waste, 23:2542 (EUR-4047)
construction and operation of WAK, economic aspects of, 25:34778(T) (ORNL-tr-2417)
construction and testing of TURF, 23:43385(R) (ORNL-4429)
construction during 1972 to 2038, optimization studies on locations, sizes, and dates of, 23:365 (ORNL-4272, pp 225-37)
construction of Eurex, problems encountered during, 24:9563
contribution to environmental radioactivity, 25:39857 (CONF-710511-1)
control of, use of atomic absorption spectrophotometry for, 24:36345 (CEA-R-3973)
corrosion problems in, 21:6761
corrosion problems in fuel and waste processing, review on, 25:55390
cost and design study of Thorium Recycle Integrated, for HWOCR fuel, 22:23854 (CONF-660524-, pp 157-84)
cost estimates of, for incorporating intermediate-level waste in asphalt, 21:10593 (ORNL-TM-1697)
costs for fuel reprocessing, optimization of, 25:41894 (INR-1297)
critical mass problems in, 24:19082
criticality accident at UKAEA Windscale, description of Aug. 24, 1970, 25:39680
criticality alarm system for, 25:8486
criticality calculations for, 24:267 (ORNL-4422, pp 48-106)
criticality control in fuel element, description of methods for, 23:16070
criticality control in Idaho Chemical Processing Plant, use of soluble poison for, 24:9453
criticality control in plutonium, administrative methods for, 25:54966 (CONF-710401-, pp 430-7)
criticality control in processing of irradiated uranium—zirconium alloy fuel at Idaho, using boric acid as soluble poison, 22:21155 (IN-1173)
criticality control in, use of borosilicate-glass raschig rings as neutron absorber for, 25:29197
criticality in, 24:4362
criticality in, criteria for prevention of, 21:10415 (ISO-522)
criticality in, for plutonium, 22:8202
criticality in, technical criteria for prevention of, 25:34678 (ARH-468(Rev.))
criticality parameters for intersecting pipes containing enriched uranyl nitrate solutions, empirical method for calculation of, 22:50807 (RFP-1197)
criticality prevention in, criteria for, 24:50535 (ARH-SA-71)
criticality problems in plutonium extraction in, 23:7587 (CEA-R-3581)
criticality studies for pilot plant, of volatilization, 22:6423
decontamination of Cell No. 1 of Douglas United Nuclear, equipment and methods for, 24:19125 (DUN-6075)
decontamination of cells and equipment in, solutions for, 21:14635 (CEA-R-3104)
decontamination of Dounreay fuel reprocessing, methods for, 24:31656
decontamination of radium, administrative aspects of, 21:14641
demolition of, radiation protection problems in, 21:14652
denitration facility in, safety analysis of, 24:19045 (IN-1293)
description and safety analysis for thorium—uranium recycle, 23:33294 (ORNL-4278)
description and safety analysis of, for MSRE fuel, 22:25463 (ORNL-TM-907(Rev.))
description of French, for separation of cesium-137, 22:2263 (EUR-3611)
description of German, 22:30754
description of German prototype Purex, 22:51151
description of Richland, Washington, for fission product conversion and encapsulation, 22:8260
description of U. S, 25:39130 (A/CONF.49/P-62)
description of, at The Hague, 22:45148(T) (ORNL-tr-1785)
description of, for Salmon Event vent gas, 21:1483 (VUF-3016)
design and construction for reactor fuel reprocessing, engineering principles in, 24:31574
design and construction of Eurochemic, 24:46462
design and construction of plutonium reactor fuel, at Richland, Wash, 25:49205 (BNWL-CC-1906)
design and construction of, at the Cadarache Nuclear Studies Centre, France, 21:257
design and construction of, for processing of low- and medium-level liquid and solid wastes, 22:51209
design and cost estimate of, for cleaning, disassembly, and canning of LMFBR fuel elements, 22:27954 (ORNL-TM-2050)
design and development of, for irradiated fuel, 21:17491
design and economics of HTGR fuel recycle, 23:29982 (GAMD-9145)
design and economics of, for thorium and bred uranium HTGR fuel elements, 23:2369 (GAMD-8382)
design and fabrication of TURF, 23:8306 (ORNL-4370, pp 221-9)
design and flowsheet for Karlsruhe, for fuel elements, 24:22855
design and flowsheets for Karlsruhe WAK, for fuel elements, 25:10756(T) (ORNL-tr-2416)
design and layout of, for fuel reprocessing in Belgium, 21:22071
design and operation of, 23:17545
design and operation of ATTILA, for nonaqueous fuel reprocessing, 23:13805(T) (ANL-Trans-705)
design and operation of EEI-Westinghouse, for recycling plutonium, 25:51675 (WCAP-4167-1, pp 5.1-58)
design and operation of Eurex, 22:35972(R) (EUR-3901)
design and operation of Eurex and ITREC, for fuel reprocessing in Italy, 24:16669
design and operation of head-end, for LMFBR fuels, 24:457
design and operation of Japanese, for production of phosphorus-32, 24:31572
design and operation of Japanese, for production of iodine-131, 24:31573
design and operation of Karlsruhe WAK, safety aspects of, 25:18566(T) (ORNL-tr-2370)
design and operation of Karlsruhe, for reprocessing of spent fuels, 24:9567
design and operation of multipurpose ORNL, for radioisotope processing, 25:6520 (ORNL-TM-3225)
design and operation of Pakistan Institute of Nuclear Science, for reprocessing spent fuels, 25:8449 (CONF-691008-18)
design and operation of PCUT, 22:49799
design and operation of small hot cell, for processing radioactive debris from underground nuclear explosions, 25:4308
design and operation of Soviet, for treatment of effluents by electrodialysis method, 25:51554 (A/CONF.49/P-427)
design and operation of unshielded pilot, for direct sol-gel preparation of uranium-233-enriched thorium dioxide—uranium dioxide fuel, 22:23857 (CONF-660524-, pp 417-43)
design and operation of Windscale, for oxide fuels, 25:51559 (A/CONF.49/P-491)
design and operation of, at Karlsruhe for fuel reprocessing, 22:25473
design and operation of, at Polish Nuclear Research Institute, 25:2422
design and operation of, for decontamination of radioactive wastes, 22:51203 (SZS-9/68, pp 1-12)
design and operation of, for fabrication and production of plutonium and uranium fuels, 22:27970
design and performance of Eurochemic prototype, for processing of medium-level liquid radioactive wastes, 24:22929 (NP-18181)
design and performance of European and US, review on, 23:50079
design and safety analysis of, for fluidized-bed denitration of uranyl nitrate, 24:9429(R) (IN-1314)
design and safety of, at Tokai, Japan, 25:18631
design criteria for, 22:51144

design criteria for, effects of safeguards requirements on, 25:21312
design for conversion of uranium hexafluoride to uranium dioxide, 24:41575(T) (LIB/Trans-281)
design for fluoride volatility reprocessing of LMFBR fuels, 24:5703 (ANL-7583)
design for fuel reprocessing, control of iodine release in, 23:33249
design for manufacture of cesium-137 sources, 23:2483
design for processing liquid radioactive wastes at IEN, Rio de Janeiro, 24:31648
design for processing of radioactive wastes at Institute of Atomic Physics, Bucharest, 24:46460
design for processing spent fuel elements, 21:30501(R) (K-1717)
design for production of nuclear-grade uranium compounds, 21:24083 (PEL-121(Vol.3), pp 234-43)
design for production of nuclear-grade uranium fluorides and oxides, 21:24080 (PEL-121(Vol.2), pp 205-19)
design for recovery of uranium from scrap, 25:8447(R) (BHO-65-1)
design for recycle of SSCR fuels, 22:49796
design for separation of plutonium and uranium from fast reactor fuels, engineering drawings for, 25:15817
design for spent fuel reprocessing, 23:426
design for spent thorium-based fuels, 22:23191 (CONF-660524-, pp 509-35)
design for strontium-90 and rare earth separation by solvent extraction, 22:2264 (EUR-3613)
design in Yugoslavia for production of uranium and urania, 21:32847
design incorporating modified Acid—Thorex method for reprocessing HTGR fuel, economics of, 25:222 (WASH-1152)
design modifications and operation of Ispra, 1963 to 1968, 24:25248 (EUR-4454)
design modifications of La Hague and Marcoule, for new types of irradiated fuels, 25:51562 (A/CONF.49/P-601)
design of Idaho Waste Calcining Facility, 22:42934 (IN-1155)
design of Japanese, for reprocessing of spent fuels, 24:9628
design of JUPITER, for reprocessing thorium-containing fuels, 25:8324(T) (ORNL-tr-2406)
design of plutonium, 22:8201
design of plutonium, safety criteria for, 25:54967 (CONF-710401-, pp 438-53)
design of plutonium, using nitrogen processing atmospheres, 25:54943 (CONF-710401-, pp 69-82)
design of Spanish M-1, 25:10667(T) (LIB/Trans-310)
design of WAK, 21:30187
design of WAK-type, 25:4263 (KFK-1102)
design of X-344, for production of uranium hexafluoride, 21:24063 (GAT-Z-439(Vol.1)(Excerpt))
design of, cost, operation, and safety aspects of, 25:39635
design studies for recovery of thorium and uranium from HTGR fuels by extraction, 21:43016 (GAMD-6360)
design study for low-throughput fuel reprocessing, 22:23085 (AAEC/E-187)
design study for reprocessing uranium—thorium fuel for 10,000-MW(t) HTGR, 22:23092 (CONF-660524-, pp 617-45)
design to minimize engineering and maintenance problems, 21:6111
design, construction, and operation of Eurex, 25:23725(R) (EUR-4604)
development activities of ENEA during 1967, 22:14382(R) (NP-17231)
development and capacity of, for neptunium, 24:2262 (BNWL-1205)
development and optimum use of multipurpose ICPP, 25:34681 (CONF-710417-1)
development and research at Amersham, 25:4088(R) (NP-18528)
development for fuel reprocessing, 23:28968
development for head-end reprocessing of oxide fuels at Windscale, 25:4146
development for oxide fuel reprocessing at Windscale, 25:15735
development in Australia, analysis of optimum economic, 25:34382 (CONF-701123-, Paper 8)
development in Euratom countries of, survey of, 23:19475
development in Japan, 24:47695
development in Japan for fuel reprocessing, 24:33773
development in Japan for fuel reprocessing, 24:33770
development of AT1 at la Hague for reprocessing Rapsodie cores, 23:49884 (CEA-CONF-1361)
development of Elan-2B, for preparation of cesium-137 and strontium-90 sources, 25:57482(T) (ORNL-tr-2535)
development of EUREX, in Saluggia, Italy, 22:40197
development of Eurochemic, 24:46396
development of Eurochemic Company, description of ENEA joint, 24:26739 (NP-18211)
development of Eurochemic Company, description of ENEA joint, 23:15601 (NP-17770)
development of Italian, for plutonium and uranium, 23:18204
development of Japanese, 25:18570
development of Japanese, 25:21236
development of Karlsruhe, for fuel reprocessing, 23:28952(T) (ORNL-tr-2116)
development of Nuclear Fuel Services, for reprocessing HTGR fuel, 23:6197 (GAMD-7657)
development of on-site MSBR facility for fuel and blanket processing, 22:23093 (CONF-660524-, pp 653-69)
development of Thorium—Uranium Recycle Facility (TURF), 21:13227 (ORNL-3970, pp 209-22)
development of TURF, 24:30017 (CONF-700502-, pp 281-309)
development of, survey on needs in Western Europe for, 25:51565 (A/CONF.49/P-640)
developments and economics of PCUT program for thorium—uranium fuels, 21:22014(R) (RT/ING-(66) 18)
developments in Salt Cycle, engineering, 21:10413 (HW-SA-3527)
dissolver off-gases from, review on methods for separation of radioactive rare gases from, 25:44426
economic aspects of large-scale, for fuel reprocessing, 23:26339
economics and evaluation of pyrochemical, for fast reactor fuels, 21:4592 (ANL-7125, pp 107-18)
economics of, 23:428
economics of contact-precipitation, for waste processing, 23:2382 (SZS-10/68, pp 18-42)
economics of fuel element, computer programs for estimation of, 22:22882
economics of Ranstad plant in Sweden, 22:25487
effluents from, methodology and instrumentation for monitoring of, 25:39603 (BRH/NERHL-70-3)
emergency planning for, 25:39876
engineering and safety analyses of, for spent fuel reprocessing, 22:18863 (DOCKET-50201-3)
environmental monitoring and research on effects of Rocky Flats, 25:54964 (CONF-710401-, pp 316-19)
equipment and instrumentation for sol-gel process in TURF, design of, 23:16069 (ORNL-4275, pp 4-14)
equipment and methods for industrial, in USSR, 25:51493 (A/CONF.49/P-466)
equipment and methods for on-line analysis in French, 24:44063 (CEA-N-1292, pp 139-59)
equipment and process development for Thorium—Uranium Recycle Facility, 23:9611 (ORNL-4302)
equipment configurations for, analysis of plutonium oxide (PuO$_2$), plutonium fluorides (PuF$_4$), and plutonium fluoride (PuF$_6$) criticality parameters in, 22:50808 (RFP-1206)
equipment decontamination for, remote, 25:57517 (DP-1266)
equipment decontamination in, remote, 21:6110
equipment design and engineering for TURF, 24:48149(R) (ORNL-TM-3124)
equipment design and engineering for TURF, 24:41396(R) (ORNL-TM-3112)
equipment design for, 22:40163 (KR-126, pp 31-53)
equipment for EBR-II, maintenance of contaminated, 21:7931
equipment for Eurex, development and operation of remote control, 23:33296 (RT/CHI-(68)36)
equipment for fabrication of fueled-graphite elements in TURF, 23:16511 (ORNL-4275, pp 57-87)
equipment for fuel handling in, design of hydraulic lifting, 25:8445 (AERE-R-5104)
equipment for fueled-graphite refabrication in TURF, description of, 23:16069 (ORNL-4275, pp 4-14)
equipment for on-line analysis in, 24:44061 (CEA-N-1292, pp 29-52)
equipment for on-line analysis in Marcoule A1, 24:44062 (CEA-N-1292, pp 53-106)
equipment for TURF, development and testing of process, 21:36809
equipment for, design of auxiliary, 23:425
equipment for, design of improved valve, 22:21381 (ORNL-4219, pp 68-74)
exhaust system for plutonium, design of filters for, 25:54947 (CONF-710401-, pp 118-32)
extraction cycle performance in, effects of radiolysis of TBP on, 24:9479
fire control at Rocky Flats, methods for, 25:51787
fire detector and alarm system for La Hague, 24:46547
fire protection criteria for Rocky Flats, 25:51786
fissile material balance in, methods for establishing, 23:21776 (KFK-802)
fissile material flow control at strategic points in, 22:51047 (KFK-801)
fissionable material accounting in, remote weighing equipment for use in, 25:4296
fissionable material monitoring in process streams in, equipment for, 23:4 (IN-1203, pp 8-29)
fissionable materials control in German, methods for, 24:44234
fissionable materials in processing streams of, neutron source—proportional detector system for, 23:4804 (IN-1211)
fissionable materials measurements in, for verification of reactor burnup and plutonium calculations, 25:48880 (IAEA-R-877-F)
flowsheets for thorium—uranium recycle facility, 22:8823 (ORNL-4170, pp 211-26)
fluid flow in, development of structures for, 23:420
fluorine release to environment from, hazards of, 25:24194 (CEA-CONF-1672)
fuel container unloading at, methods for, 24:36536 (CONF-700207-(and Add.))
fuel element disassembly machine for, design and operation of, 22:45220(T) (ORNL-tr-1976)
fuel storage at ICPP, safety evaluation of facilities for spent, 25:44567 (IN-1465)
hazards analysis and safety measures for Canadian, 23:50575
hazards to Czechoslovakian personnel from uranium, health education for prevention of, 25:42504
health physics programs for, tabulation of, 25:4515
heat transfer operations in, design of equipment for, 23:421
hot cell for NRTS Fuel Cycle Facility, equipment maintenance and performance after six years operation in, 25:4300
hot cell sealant development for Thorium-Uranium Fuel Cycle Development Facility, 21:34312 (ORNL-TM-1838)
hot cells for NRTS Fuel Cycle Facility, decontamination methods for, 25:4299
hydrodynamic behavior of, for decontamination of radioactive effluents, iodine-131 tracer method for determination of, 24:9620 (EUR-4402)
input tank calibrations at Eurochemic, 23:31404 (NP-17894)
inspection for nuclear material accounting, by IAEA team, 23:43501 (CONF-680506-, pp 107-17)
instrumentation design for, review of, 23:424
instrumentation for thorium—uranium fuel recycle facility, development of, 21:34521 (ORNL-4091, pp 91-101)
instrumentation for, review of radiological emergency, 25:32208 (BNWL-1552)
instrumentation, procedures, and safety in industrial, in Russia, review of, 21:28045
iodine behavior and control in, for fast reactor fuels, 25:21269 (CONF-700816-(Vol.2), pp 551-67)
iodine trapping by solid sorbents in, 25:2314 (ORNL-4572, pp 37-84)
iodine trapping in off-gas systems of, 24:36356 (ORNL-4586, pp 98-117)
iodine-129 discharge from, evaluation of hazards to human populations from, 25:44811
iodine-131 release at La Hague UP 2, content of grass and milk following accidental, 25:8657 (CEA-R-4008)
iodine-131 release from La Hague UP2, 1968, 25:44799
ion exchange facility as adjunct to, operation of, 25:48588
isolation of Cell No. 1 of Douglas United Nuclear, for steam generator decontamination and retubing, 24:19124 (DUN-5935)
land requirements for Hanford, development of criteria for, 23:11647 (ISO-668)
maintenance of large-scale, remote, 21:6107
maintenance of Plutonium Reclamation Facility, semi-remote, 21:6108
maintenance of radioactive equipment in, 21:6112
maintenance of, modification for remote, 21:6106
maintenance, operation, and safety procedures for TURF, 25:18564 (ORNL-4629, pp 10-13)
material balance accounting system for, 24:27185 (BNWL-1384)
material balance in boron isotope separation facility, 22:21157 (NUMEC-3292-3)
material balance in EUROCHEMIC, 24:20849 (KFK-907)
material control at, manual of procedures for source and special, 22:2322 (IN-1119)
materials accounting methods for Eurochemic, digital simulation techniques for evaluating accuracy of, 25:21333
materials and streams in, chemical and physical properties of, 23:7497 (ARH-724(Add.))
materials management and safeguard procedures for, 21:1414 (BNWL-301)
materials management and safeguards procedures for, model for, 21:1415 (BNWL-301(App.))
monitoring plutonium, thorium and uranium in process streams in, in-line x-ray fluorescence methods for, 25:39420
neutron dosimetry at irradiated fuel element, equipment and methods for, 21:43290
nuclear materials accountability in, analysis of optimum economic safeguards for, (T), 24:26790 (KFK-909)
nuclear materials accounting in, for reactor burnup verification, 25:15866 (NP-18575)
nuclear materials control in Tarapur, design for, 25:21298
nuclear materials control system in Hematite, Mo., description of, 25:48777 (CONF-710617-1)
nuclear materials control systems for, standards for, 25:57717
nuclear materials management at, 24:38988 (BNWL-1473)
nuclear materials management at Eurochemic, methods for, 25:4266
nuclear materials management in, 24:31467
nuclear materials management in, 24:39171 (KFK-908)
nuclear materials management in, composite sampling method in input analyses for, 25:21081 (KFK-1104)
nuclear materials management in, investigation of accountability tank for, 24:13996 (KFK-996)
nuclear materials management in, isotopic analysis for in-process inventory in, 24:9432 (KFK-904)
nuclear materials safeguards at Cadarache, accounting methods for, 25:51762 (CEA-CONF-1786)
nuclear materials safeguards system for, 25:21289
off-gas from separation of iodine from, 24:20852 (NP-18166)
off-gas streams from, evaluation of permselective silicone rubber membranes for removing rare gases from, 25:29317 (ORNL-4522)
off-gas streams from, iodine removal from, 25:8321(R) (IN-1363)
off-gas systems of, iodine trapping in, 24:13999 (ORNL-4400, pp 134-41)
off-gas treatment from, in LMFBR fuel reprocessing, 25:54713 (ORNL-4682, pp 39-79)
off-gases from, cleaning fission product iodine from, inorganic adsorbers for, 25:21078 (CONF-700816-(Vol.2), pp 568-80)
off-gases from, performance of sand-bed filters for removing radioactive aerosols from, 25:29315 (ANL-7683)
operation, 23:427
operation and activities at Eurochemic, 25:39567(R) (NP-18903)
operation and maintenance of Trombay, radiation protection problems in, 24:31661
operation at Bhabha Atomic Research Center, India, 21:41292(R) (NP-16972)
operation for fuel reprocessing at Marcoule, 22:47220
operation for fuel reprocessing, licensing of personnel for, 23:31405 (ORNL-TM-2573)
operation for HTGR-type reactor fuels of, economics for, 23:13412(R) (GA-8530)
operation of ATTILA and AT.1, in France, review on, 25:51563 (A/CONF.49/P-603)
operation of Attila, for fuel reprocessing by fluoride volatility methods, 24:29359 (CEA-CONF-1537)
operation of Dounreay and Windscale, review on, 25:51560 (A/CONF.49/P-492)

operation of EBR-II Fuel Cycle Facility, for remote reprocessing and refabrication of fuels, 24:9565
operation of EUREX and ITREC, in Italy, review on, 25:51549 (A/CONF.49/P-182)
operation of Eurochemic, 25:2324
operation of Eurochemic Plant at Mol, Belgium, review on, 23:7621
operation of Eurochemic, developments in, 25:8327
operation of Eurochemic, developments in, 23:17545
operation of Eurochemic, economics, methods, and planned improvements in, 25:51548 (A/CONF.49/P-28)
operation of Eurochemic, economics, methods, and safety of, 24:9450
operation of Eurochemic, safety and radiation protection in, 25:4140
operation of French, 25:6416
operation of Hanford Purex, experience with in-canyon recycle process condensate streams during, 24:50492 (ARH-SA-68)
operation of ICPP, for zirconium fuels, 25:37459 (IN-1471)
operation of Karlsruhe, planned improvements based on initial, 25:51553 (A/CONF.49/P-381)
operation of La Hague UP 2, developmental and experimental studies during, 25:51605
operation of pilot, 21:2864(R) (KR-109)
operation of Rocky Flats, administrative procedures for, 25:54960 (CONF-710401-, pp 293-6)
operation of spent fuel, economics of, 24:9570
operation of the Hague Centre, review on, 23:7620
operation of Trombay, review on, 24:9451
operation of TURF, review of, 24:2984 (ORNL-4470, pp 204-7)
operation of U.K.A.E.A, 23:40165 (CONF-681064-7)
operation of Waste Calcining Facility, for processing aluminum- and zirconium fluoride-type fuel wastes, 24:27316 (IN-1344)
operation of, analog study of dynamic, 24:36481
operation of, at La Hague and Marcoule, France, 24:9452
operation of, licensing of personnel for, 23:35269
operation schedules for, effects of power reactor fuel requirements on, 25:34376
operation testing of unshielded pilot, for recycle of uranium-233-containing fuels, 22:23190 (CONF-660524-, pp 299-319)
operations at Eurochemic, review of European Nuclear Energy Agency joint, 23:31146
operations at ICPP combining dissolver products of aluminum and zirconium fuels, economics of, 25:44414 (IN-1472)
operations incidents during 1969, listing of, 25:48224 (ORNL-NSIC-87)
operations incidents for U.S., during October to November 1970, review of, 25:25890
performance of EUROCHEMIC, 24:16668
performance of EUROCHEMIC, systematic analysis of, 24:20849 (KFK-907)
performance of Japanese, for reprocessing of irradiated fuels, 25:51551 (A/CONF.49/P-239)
performance of pilot fluoride volatility, for fuel recovery from aluminum-clad elements, 22:40292 (ORNL-4251)
performance of waste solidification engineering prototype, for phosphate glass solidification, 25:23752 (BNWL-1541)
personnel for, training of, 25:39134 (CONF-710416)
personnel for, training requirements for operator, 25:37456 (CONF-710416-, Paper 17)
piping for, formula for estimating amount of, 21:6100
plutonium content of dissolver solutions fed into, tracer and mass spectrometric methods for determination of, 25:13081 (NP-18577)
plutonium input to, use of lithium-7 tracer and mass spectrometry for determination of, 25:34689 (IAEA-R-876-F)
plutonium/uranium ratio in solutions in, mathematical estimates of, 25:2417 (BNWL-SA-3287)
production at transuranium, 24:5676 (ORNL-4428)
production capacity of FINGAL, effects of fission product heat on, 24:19039 (AERE-R-5268)
radiation dose to man in vicinity of, estimation of, 25:55237
radiation dosimetry at, detectors for neutron, 25:18800(T) (SC-T-713009)
radiation dosimetry for personnel of, correction factors for, 25:35140
radiation exposure of population in area surrounding Eurochemic, 21:12839 (NP-16379)
radiation monitoring at Trombay, 23:48067
radiation monitoring instrumentation in Thorium—Uranium Recycle Facility, 23:21940 (ORNL-TM-2463)
radiation monitoring methods for uranium, 25:46855(R) (PEL-188)
radiation monitoring of air in, equipment and methods for, 24:31565
radiation monitoring of environment of USA, programs for, 25:21686 (CONF-700816-(Vol.2), pp 832-6)
radiation monitoring programs for, 25:42410
radiation monitoring system for Thorium—Uranium Recycle Facility, 23:19937 (ORNL-TM-2464)
radiation protection and safety in Eurochemic, effects of design and plant layout on, 24:31560
radiation protection programs at, in Belgium, 25:11082
radiation protection programs for, 25:32432 (LFEN-102-b)
radiation protection programs for, 25:37819 (EUR-4612, pp 403-18)
radiation protection programs for Oak Ridge National Laboratory transuranium element, 25:37817 (EUR-4612, pp 291-325)
radiation protection programs for plutonium, at Casaccia Nuclear Center, Italy, 25:37820 (EUR-4612, pp 421-35)
radiation protection programs for plutonium, at Marcoule, France, 25:32430 (CEA-CONF-1724)
radiation protection programs for transuranium element, 25:37821 (EUR-4612, pp 483-514)
radiation protection programs for, producing actinium-227 from radium-226, 25:37803 (EUR-4612, pp 547-58)
radiation protection standards for personnel of, 25:29534
radioactive effluents from, 25:48294
radioactive effluents from U.S., monitoring programs and measurements for, 25:39182 (A/CONF.49/P-87)
radioactive waste from Eurochemic, neutralization self-solidification process for treatment of, 24:44068 (NP-18306)
radioactive waste from liquid metal fast breeder reactor fuel recycle complex, 25:54754
radioactive waste from, processing of, 24:36365
radioactive waste processing at French, 25:21120
radioactive waste processing at ICPP, 25:34682 (CONF-710509-1)
radioactive waste processing at ICPP, 25:21123
radioactive wastes from Eurochemic, bitumen fixation for disposal of, 25:15865 (NP-18574)
radioactive wastes from Eurochemic, bitumen solidification of intermediate-level, 25:21372 (CEA-R-3735)
radioactive wastes from Japanese, decontamination and management of, 24:31650
rare gas recovery facility for, design of cryogenic, 23:24343 (IN-1221)
remote-control equipment for, design of, 21:5705 (ORNL-P-2391)
requirements in Germany for, estimates to 2000AD, 22:35985
research and developments at ICPP, 25:34690(R) (IN-1457)
research progress at Eurochemic, 25:39567(R) (NP-18903)
safeguard procedures for WAK-type, development of, 25:4263 (KFK-1102)
safeguards and controls for, 24:16619 (CONF-681219-4)
safeguards at Nukem fuel fabrication, control equipment and methods for, 25:21295
safeguards at, design criteria for cost reduction for, 25:21082 (KFK-1107)
safeguards control system for, materials unaccounted for calculations for use in, 25:46611(R) (IAEA-R-902-F)
safeguards exercises at Alkem plutonium fabrication, material unaccounted for measurement errors in, 25:21317
safeguards exercises at Eurochemic, daily calculated material unaccounted for values during, 25:21318
safeguards exercises at Eurochemic, design and performance of, 25:21294
safeguards exercises at Eurochemic, material unaccounted for measurement errors in, 25:21317
safeguards methods for scrap, development of, 25:21283 (IAEA-R-741-F)
safeguards methods for WAK-type, 25:21079 (IAEA-R-712-F)
safeguards system for fuel reprocessing, criteria for maximum efficiency, 25:21310
safeguards systems for plutonium, instrumentation requirements for, 25:21313
safeguards systems for, mathematical model for evaluating efficiency of, 25:51844
safeguards systems for, theoretical studies of accuracy of, 25:21334
safeguards systems for, use of isotopic correlations method in, 25:48775 (BNWL-SA-3929)
safety analysis for spent fuel reprocessing in, 22:18862 (DOCKET-50201-2)
safety analysis of Battelle-Northwest plutonium reactor fuel, 25:49205 (BNWL-CC-1906)
safety analysis of trans-uranium, 22:25461 (ORNL-3954)
safety aspects in design of WAK, 21:30520
safety aspects of proposed Rocky Flats, for plutonium recovery, 25:54961 (CONF-710401-, pp 297-9)
safety in, for personnel protection, 21:391
safety measures for reprocessing of fuels in, 23:24289
safety of, bibliography of current literature on, 21:23615 (ORNL-NSIC-32)
safety of, bibliography on, 21:40568 (ORNL-NSIC-36)
safety of, review of radiation accidents involving, 21:1762
safety procedures for ORNL, 22:4400
safety procedures for, at Oak Ridge National Laboratory, 21:41396 (ORNL-P-3227)
safety procedures in USA, 25:26780
safety programs for, 25:4527
safety programs for plutonium, 25:4526
safety programs of, relation to insurance coverage, 24:50949
shielding calculations for, gamma, (T), 23:11685 (AERE-R-5773(Vol.3), pp 779-800)
shielding cells for, CASTOR and POLLUX, 24:5715
site of, requirements for optimum economic, 24:7374
site survey for, 24:319 (ORNL-4422, pp 326-8)
site survey for Trisaia, to determine methods for disposal of low-activity liquid wastes, 25:29479
siting and sizing of nuclear fuel, 22:10429 (CEA-R-3364)
siting considerations and factors for, 24:36538 (ORNL-4451)
siting of ARCO, considerations relating to, 24:5719
siting of European, criteria for, 24:44092 (CEA-CONF-1528)
siting of European, selection criteria for, 24:5720
siting of, dynamic programming method for, 23:7658 (CEA-R-3592)
siting of, long-range considerations involved in, 24:5721
solutions in, in-line colorimetric determination of uranium in, 23:2182 (NP-17641)
specifications for reactor fuel element, 23:45381
stack effluent from, use of tritium as tracer for determining maximum concentration of, 23:38114
stainless steel performance in, 24:955
stream control in uranium, automatic discharge valves for continuous analytical, 23:7441 (CEA-R-3531)
tritium content of moisture in atmosphere near, 23:12093
tritium release from, effects on and distribution in ecosystems of, 25:48230
uranium content at la Hague, method for routine determination of, 24:2122
uranium content at Marcoule, method for routine determination of, 24:2123
uranium content of dissolver solutions fed into, tracer and mass spectrometric methods for determination of, 25:13081 (NP-18577)
uranium content of feed for, isotopic dilution mass spectroscopy for determination of, 23:33144 (NP-17895)
uranium input to, use of lithium-7 tracer and mass spectrometry for determination of, 25:34689 (IAEA-R-876-F)
uranium, monitoring of personnel in, 23:38606
uranium-235 content of feed for, isotopic dilution mass spectroscopy for determination of, 23:33144 (NP-17895)
uranium-235 enrichment in, criticality calculations for maximum, 24:43999
waste disposal by, criteria for, in UK, 24:9824 (CONF-690303-, pp 145-55)
waste disposal economics of, 21:36325 (NYO-841-7)
waste disposal from fuel, using underground nuclear chimneys, 25:57604 (UCRL-73130)
waste disposal from, effects of, on environment, 24:39469 (RT/PROT-(69)43)
waste from Eurochemic, management experience on, 24:46461
wastes from Eurochemic, neutralization self-solidification process for treatment of medium-level, 22:23100 (NP-17234)
wastes from, catalytic oxidation of organic, 23:13811 (BNWL-856)

RADIOCHEMISTRY
(Study of radioactive chemical systems)
bibliography of nuclear science literature on, from eastern countries, 23:26313 (AED-C-12-18)
bibliography on chemical effects of nuclear transformations, 1969, 24:46289 (NP-18402)
bibliography on chemical effects of nuclear transformations, 1963 to 1967, 24:46290 (NP-18403)
bibliography on chemical effects of nuclear transformations, 1968, 24:48143 (NP-18436)
book: 1968 Book of ASTM Standards with Related Materials, Part 30, 22:37678
book: Advances in Inorganic Chemistry and Radiochemistry, Vol. 9, 21:15973
book: Advances in Inorganic Chemistry and Radiochemistry, 24:7437
book: Applications of Nuclear Physics, 25:28379
book: Automatic Analyzers of Radiochemical Media, 21:34529(T) (AEC-tr-6715)
book: Development of General, Inorganic, and Analytical Chemistry in USSR, in Russian, 24:46227
book: Fundamentals of Radiochemistry, in Russian, 24:19035
book: Health Physics—Process Control Reference Manual. Volume II, 23:38567 (AD-677370)
book: Health Physics—Process Control Reference Manual. Volume III, 23:38604 (AD-677371)
book: Hot Laboratories, 21:28144
book: Ion Exchange in Radiochemistry, in Russian, 25:48584
book: Principles of Design and Construction of Radiochemical Apparatuses, in Russian, 21:28045
book: Principles of Radio- and Reactor Chemistry, in German, 23:4686
book: Principles of Radioisotope Methodology, 21:12373
book: Report of the Government Chemist, 1966, 21:43012
book: Textbook of Practical Studies in Radiochemistry, in Russian, 23:28935
book: Up-to-Date Radiochemistry, in Russian, 24:13989
buildings and facilities for, design and construction of laboratory, 23:6240 (CONF-670401-16)
computer uses in, 21:22011
conference on, Nordic Society for Radiation Research and Technology, Risoe, Feb. 1971, abstracts from, 25:20998 (RISO-M-1332)
data analysis from experiments with labeling in, computer method for, 25:37315
developments in Federal Health Office in Germany, 25:21678 (NP-18631, pp 122-35)
developments in Federal Health Office, Germany, 25:21677 (NP-18630, pp 103-11)
developments in, associated with RA Reactor, Yugoslavia, 24:19044 (IBK-832)
developments in, France, 1966-1967, 24:7477
developments in, review on, 22:25311
developments in, review on U. S, 24:31363
developments of industrial, 25:29128
equipment for, development of anticoincidence-shielded lithium-drifted germanium gamma spectrometer, 23:35508
evaluation of methods of, for biological purposes, 21:22364(R) (BNWL-235-2)
explosions and fires in packed beds in, 21:24060 (BNWL-SA-942)
facilities and program for, at Tracerlab Western Division, 22:16422
facilities for, design characteristics affecting radiation safety, 21:28426 (ANL-7291)
hot-atom origin and reactions in, 21:19717
mechanisms in, role of Auger process and electron shake-off in, 21:32220
method for separation of yttrium-91 from fission products in fallout, 21:36593

- methods for identification of radioisotopes in animals, plants, and soil, 21:43402
- methods for studying chemical reactions on catalyst surfaces, 21:19716
- methods for studying, microchemical, 21:38995
- methods for use in chemical analysis, review on, 22: 4027
- methods for, of milk and milk products, 21:12888
- methods in, detection limits of, 22:18859
- methods of, for radiolysis of threonine and serine, 21: 8702
- moderation processes in, 24:41323
- nuclear resonance fluorescence studies on, 25:32019
- nuclear transformations in, review of chemical effects of, 22:27741 (BNL-12361)
- of noble gases and their properties, review of, 21:138
- procedures in, collection of, 21:45010 (LA-1721(3rd. Ed.))
- program of Commonwealth X Ray and Radium Laboratory, 1969 annual report of, 24:31985(R) (NP-18121)
- radiation monitoring of research centers for, in Italy during 1968, 25:29504 (PROT.-SAN.-13/69)
- radiation protection programs for personnel in, 25:52093
- radioisotope separation research in, historical review of ORNL work on, 21:17789
- reactions of recoil atoms in, review on, 23:11592
- reactions of recoils in solids, mechanisms of, 21:137
- research at Chalk River Nuclear Laboratory on, in relation to environmental problems, 24:39450(R) (AECL-3451)
- research at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
- research at Inst. of Nuclear Research, Warsaw, 1968, 23:51857(R) (INR-1100)
- research at IPCR, 1967, 22:26739(R) (NP-17423)
- research at Juelich Nuclear Research Center, 1967, 23: 40512(R) (NP-17718)
- research at Juelich Nuclear Research Center, 1969, 25: 15964(R) (NP-18602)
- research at Juelich, 1968, 24:27470(R) (NP-18083)
- research at Lyon Institute of Nuclear Physics in 1970, 25:56742(R) (LYCEN-7101)
- research at Nuclear Physics Institute of University of Paris in 1970, 25:53748(R) (NP-18872)
- research at Puerto Rico Nuclear Center, description of, 23:41365 (CONF-670338, pp 299-314)
- research in New Zealand, Jan.—June, 1969, 25:460(R) (NP-18408)
- research in Soviet Union, review of, 22:18682
- research in Soviet Union, review of, 22:35729(T) (JPRS-45331)
- research on military applications of, 1967 summary of French, 23:4499 (NP-17597, pp 83-95)
- research programs at Bhabha Atomic Research Center, India, 21:41292(R) (NP-16972)
- separations in, chemical yield determinations in, 21: 32213 (NAS-NS-3111)
- strontium-90 determination using, for prediction of fish strontium-90 content, 21:4780
- tritium preparation, uses, and handling in, 21:19720
- use for research on radiation induced reactions and industrial processes, 21:36280
- use of, in analyzing air filter samples collected under Project Stardust, 1965, 21:6489(R) (HASL-176)
- uses in nuclear power-plant maintenance, 21:28042

Radiocolloids
- see Colloids

RADIOELECTRIC CELLS
- development and properties of, 21:10719
- development of broadband, for power density monitoring of pulsed microwaves, 25:42188 (MATT-845)
- development of tritium, in μW range, 25:23736 (AE-410, pp 63-82)
- performance of gamma—, experimental and theoretical, (E/T), 22:47863
- photographic color scanning equipment for, 21:16057(P)

RADIOFREQUENCY ATTENUATORS
- design and performance of high-voltage pulse, with subnanosecond response, 21:16223 (UCRL-14723)
- design for linear accelerators, 23:25753(P)
- radiation effects on ceramic-ferrite, electron, 24:29616

RADIOFREQUENCY GENERATORS
- see also Pulse Generators (Electronics)
- design of gigawatt lumped-element line, 22:42935 (LRP-37/68)
- frequency—time spectra for 2-GeV electron linac, 23: 49289
- operation mechanisms of, temperature dependence of, 25:34479 (SC-TM-70-175)
- performance for producing controlled lesions in brains of dogs and man, 22:28567
- stabilization of hf, description of computer for, 21:1691
- use for strontium-89 decontamination of nickel plates, 21:43374
- use in simulation of radiation environment, 21:43364(R) (AD-645002)

RADIOFREQUENCY OSCILLATORS
- cavity resonators for highly-stable UHF, design of superconducting, 23:42784 (BNL-50155(Pt.1), pp 1-191)
- description of master, for Omnitron synchrotron, 21: 23370 (UCRL-17252)
- design and performance of variable-frequency tunnel-diode relaxation, 21:39300
- design for pulsing Van de Graaff accelerator beam in μms, 25:33901 (UARAEE-51)
- design modifications for high-pressure ion source, 23: 30898
- design of 100 MHz gated clock, 22:410
- design of FET marginal, 25:33473
- development of capacitance-controlled, radiation-hardened fm, 21:34527 (UCRL-13279)
- effects of high-frequency, on stability of current pulse in linear accelerators, 22:1540(T) (SLAC-Trans-75)
- failures in, controller system for, 23:9276 (EGG-1183-444)
- quality factor of superconducting lumped-parameter, 25: 55086
- radiation effects on quartz crystal, electron, 25:21508
- saturation effects in cyclotron resonance, 25:44733

RADIOFREQUENCY SPECTROMETERS
- see also Microwave Spectrometers
- amplifier for NMR, design of lock-in, 23:33553 (KFKI-11/1969)
- book: Electron Spin Resonance Spectrometers, 22:19230
- calibration of NMR, simultaneous with recording spectra, 24:16932
- calibration system for NMR, 24:5949
- calibration technique for cw NMR, 24:14377
- circuit for correcting phase shifts in Varian HA-100 NMR, 24:50652
- circuit for frequency locking and control for autodynode NMR, 24:45372
- circuit for NMR, discrete frequency sweep synthesizer, 25:18848
- circuit for NQR, bidirectional Zeeman modulator, 24: 44366
- circuit for pulsed NMR, MOSFET gate, 24:36666
- circuit for reducing transmitter ringdown time in pulse NMR, self-switching damping, 25:4396
- circuit for spin-echo attachment for Varian HA-100 NMR, 24:48351
- circuitry for triangular sawtooth sweep for NMR, with provision for manual operation or time averaging, 23: 17841
- circuits for ESR, design of, 21:26310
- circuits for nuclear quadrupole resonance, use of field-effect transistor, 22:8414
- circuits for receiver channel of proton nuclear magnetic double resonance, 24:7698
- control of nuclear resonance, modulation system for, 23: 46565
- data acquisition and control system for NMR, on-line computer, 25:57887
- description of CERN, with primary beam modulation, 21:29778
- description of double acoustic EPR and NMR, 25:21469
- description of NQR, using field effect transistors, 22: 23374
- description of Pound—Watkins marginal oscillator-type NMR, operating at 100 MHz, 22:33695
- description of superregenerative, for measuring NQR, 23:14107
- description of variable-frequency transmission line NMR, with servo correction of background, 21:26313
- description of whole-body low frequency NMR, 22: 23380
- design and operation for EPR measurements at 4.2 deg K, 21:355
- design and performance of 5-kHz to 25-MHz, for plasma diagnostics, 21:34503 (CEA-R-3216)
- design and performance of field—frequency locked NMR, for Knight shift measurements, 24:14375
- design and performance of high-level NQR, 21:45479
- design and performance of NMR, 23:45592
- design for measuring quadrupole spin echo at 150 to 300 MHz, 22:47416
- design for simultaneous electron irradiation and ESR measurement, 25:10626 (KFK-1285)
- design of broadband NMR dispersion detector, 22:4528
- design of electron nuclear double resonance, 21:843
- design of EPR, for gamma radiation effects studies in reactor facilities, 22:16304(P)
- design of EPR, for radiation effects studies in reactor facilities, 22:16303(P)
- design of EPR, for radiation effects studies in reactors, 23:29268(P)
- design of EPR, for studying in-pile radiation effects on solids, 21:17943(P)
- design of EPR, for studying radiation effects, 25:15962 (CEA-R-4022)
- design of ESR, 21:29969(R) (UCRL-17299)
- design of ESR, for gaseous media, 22:14876 (UCRL-17306)
- design of frequency sweep, field-frequency stabilized, double resonance, NMR, 22:28222
- design of gyromagnetic resonance, 23:31589(P)
- design of ion cyclotron double resonance, 24:515(P)
- design of NMR frequency swept, for high-resolution, engineering drawings for, 24:9718
- design of NMR, for measurement of relaxation times in weak magnetic fields with small samples, 24:42839
- design of NMR, for use in superconducting magnet, 25: 6595
- design of NMR, with superconducting magnet, 23:7895
- design of nuclear magnetic triple resonance, 23:4861
- design of solid-state high resolution NMR, for multinuclei applications, 23:14086 (UCRL-71480)
- design of superconducting high-resolution NMR, 25: 37685
- design of superconducting multinuclei NMR, 25:37857 (ANL-7770, pp 76-100)
- design of wide-line NMR induction and bridge, 21:4726 (IS-1477)
- detector for NMR and EPR, design of synchronous, 22: 43194
- development of ion cyclotron resonance, to study ion-molecule reactions, 23:31246(R) (CALT-757-3)
- development of low-temperature ENDOR, 23:213 (IS-1900, Paper 3)
- development of NMR, for pressures to 1000 atm, 23: 6328
- development of sensitive 8 mm ESR, using double sideband demodulation, 21:26311
- development of variable-frequency, using modified grid-dip meter, 22:8424
- development of, review on, 25:10897
- gating circuits for NMR, with 140 dB carrier suppression, 22:43163
- heating system for NMR, design of variable, 22:12693
- magnet for NMR, description of permanent, 22:19224
- magnetic field fluctuations and resonance condition stabilization in NMDR, 23:17846
- magnetic field homogeneity control and measurement in NMR, 22:38173
- magnets for EPR, design of superconducting, 21:3797
- magnets for NMR, design of superconducting 47-kG, 22:21392
- magnets for, design of homogeneous-field superconducting, 22:10650
- modification of frequency sweep of Varian HA 60/HA100, 22:12700
- modifications of A-60, for nuclear relaxation studies of chemically-shifted protons, 21:34535
- oscillator for NMR, design of FET marginal, 25:33473
- oscillator for spectrum analyzer, signal generator design for variable frequency, 23:43639(P)
- performance of NMR, using analog integrator with linear programmer, 21:17937
- performance of, using superconducting solenoid for NMR studies, 24:47185
- preamplifier for NMR, design and performance of MOSFET, helium-cooled, r-f, 23:4857
- preamplifier for NMR, design of microwave planar triode, 21:6351
- probe and receiver design for NMR, 22:19223
- probe for NMR, crossed-coil, 24:11873
- probe for NMR, design of parametric, 22:47417
- probe for NMR, flux-balance system for crossed-coil, 24:14376
- pulse generator circuit for spin-echo, design of, 21:45468
- pulse generator for NMR, for spin—lattice relaxation time measurements, 24:11875
- pulse generator for transient NMR, design of programmed digital integrated circuit, 24:16931
- radiofrequency bridge and phase detector stabilization in NMR, 23:33563
- sample cell for NMR, Bridgman anvil high-pressure, 25: 33468
- sample probe for NMDR, design of, 23:41146
- sensitivity of EPR and NMR, stabilization of multichannel integrators for improving, 21:16242
- sensitivity of marginal oscillator NMR, 25:33469
- sensitivity of NMR, method for determining, 24:527
- signal-to-noise ratio in cw NMR, improvement using MOSFET rf amplifier, 24:14299
- spin stabilizers for nuclear magnetic double resonance, 24:7699
- stabilization of spin echo NMR, method for resonance, 24:33974
- sweep system of Varian HA-100 NMR, design modifications for, 24:530
- temperature probes of NMR, system for protection against overheating of, 22:19225
- thermostat control system for spin-echo, design of gaseous, 22:47419
- tuning of pulsed NMR, 23:41159
- use for nuclear spin—lattice relaxation measurements by tone-burst modulation, 22:25693
- use for studying solar bursts at 46 to 540 MHz, (E), 21: 28264

Radiographic Inspection
- see Radiography, Industrial

RADIOGRAPHY, BIOMEDICAL
- (Use of projected ionizing radiations for the production of shadow images usually through the use of photographic emulsions)
- see also Autoradiography
- apparatus for fluoroscopic, of mouth-cavity, 21:28583(P)
- applications of neutron, 23:45609 (CNM-R-2(Vol.2), pp 797-825)
- beam quality for x-ray diagnostic, method for measurement of, 25:52136
- bibliography of Soviet literature on, 22:4637
- bibliography on, 25:55274
- bibliography on, 23:24678 (TID-3319)
- bibliography on, 25:37836 (TID-3319(Suppl.3))
- bibliography on tracer techniques for, 23:45830
- bone autoradiographs and microradiographs in, CHLOE film digitizing system for analysis of, 21:34510 (CONF-660527-, pp 187-92)
- book: Atlas of Roentgenographic Measurement, 24:7955
- book: Bases of Nuclear Medicine, 23:6606
- book: Clinical Applications of Radiology and Nuclear Medicine, 24:9907
- book: Clinical Radioisotopic Diagnostics, 23:5005
- book: Diagnostic Nuclear Medicine, 25:46917
- book: Fundamental Physics of Radiology, 23:38635
- book: Isotopes Available for the Medical Practitioner, 23:5004
- book: Isotopes: Bioclinical Applications, 23:45830
- book: Luminescence Radiography, 23:33549
- book: Mathematics of Radiology and Nuclear Medicine, 25:42433
- book: Medical Radiation Physics, 25:16275
- book: Medical Radiology, 22:25929
- book: Physician's Desk Reference for Radiology and Nuclear Medicine, 25:46916
- book: Planning Guide for Radiologic Installations, 21: 20312
- book: Progress in Radiology, 22:38392
- book: Radioactive Isotopes and Their General Biological and Physical Applications, 22:36309
- book: Radiodiagnostic Methods For Bone And Joint Diseases, 24:782
- book: Radioisotopes for Internal Application in Diagnostics and Therapy, 22:28620
- book: The Photographic Action of Ionizing Radiations, 24:2455
- book: The Physics of Radiology, 24:46646
- book: The Year Book of Radiology, 1969, 23:43815
- book: Works on Medical Radiography, 24:48605
- book: X-Ray Diagnostics in Obstetrics, 24:41915
- book: X-Rays, 25:35057
- book: Year Book of Nuclear Medicine 1967, 23:4982
- book: Year Book of Nuclear Medicine 1968, 23:4983
- code of practice for use of x-ray equipment in, in Australia, 22:28536
- color method for, of human gonads, reduction of dose with, 24:14553

complications in angiographic, in man, administration of dextran and glucose for reducing, 25:11195
conference of Japan Radiological Society, 23:45799
conference on methods for diagnosis of bone diseases using, 25:24243
conference on methods for measurements of bone minerals using, 25:4612 (CONF-680211)
conference on research in, in Germany in 1969, 24:41935
conference on, abstracts of papers presented at, 25:19052
conference on, Japanese Radiological Society, 23:35820
conference on, Rome, September 22 to 28, 1965, 23:48165
conference on, summaries of papers from, 23:45815
contrast media for extrabiliary, in man, 24:6071
control of dose from, in the practice of dentistry, 21:8822
coordination of scintigrams with x-ray pictures, use of, for avoidance of error, 23:14241
criteria for mass screening for diagnosis of heart diseases in man using Odelca 70-mm U-camera, 24:48629
data from, development of measuring device for use in interpretation of, 23:35798
data on pelvic measurements, agreement of, with ultrasound measurements, 24:44540
data processing and display system for, 24:36775
data recording for patient and personnel dose in x, 24:29783 (DMRE-69-3, pp 96-129)
data recording for, record keeping evaluation of, 24:29761 (DMRE-69-3, pp 130-6)
description of facility for, 21:8863
design and performance of collimators for, of brain tumors in man, 22:28601
design of apparatus for emergency, 22:40808
design of equipment for dental, 22:12870
design of exophthalmometer for use in, 21:26496
design of scanning microdensitometer-analog computer system for use in quantitative x-ray, of osteoporosis in man, 22:31168
development for diagnosis of malignant tumors in Russia, 22:8568
development of contrast medium for use in postmortem angiographic, 21:26509
development of diaphragm for use in small-film, 21:12898
development of proton, 25:39785
development of three-dimensional, progress in, 25:39891
development of xerography for recording x-ray images for, 25:39892
developments in, 25:18870
developments in neutron, 24:16812
diagnostic analysis of images in, use of on-line computers for, 21:16250
dose calculations for human skin following, development of calculator for, 24:50905
dose control in pediatric, by use of cinematography, 21:12920
dose control in, use of improved Scheel-type grids for, 21:12862
dose during mouth, determination of integral-absorbed, 21:12870
dose during pregnancy, measurement of, for mother and fetus using phantom, 21:22448
dose during uterine, methods for reduction of, 21:20286
dose during, using television fluoroscopy in gynecologic diagnosis, 21:12924
dose from chest, 21:22445
dose from dental, 21:10988
dose from dental, 21:22447
dose from diagnostic, 21:28631
dose from diagnostic, comparison with radioisotope techniques, 24:48568
dose from diagnostic, development of equipment for reduction of, 21:22593
dose reduction during, methods for dental, 21:16367
dose reduction in dental, methods for, 21:12928
dose reduction in mass, methods for, 21:6533
dose reduction in, use of aluminum primary beam filters for, 25:46910
dose requirements for pelvic, in human children, 24:6086
dose standardization in, 24:36778
dose to gonads during dental, 21:22433
dose to gonads of man during, 22:2510
dose to gonads of man during intra-oral, 22:28462
dose to industrial personnel from medical, in Hungary, 21:28484
dose to man from dental, 22:31100
dose to man from, review of effects of low, 21:28525
dose to man, contribution of, to total exposure, 21:28525
dose to maternal ovaries from, during pregnancy, 22:2513
dose to medical personnel during, of colon and lungs, 21:43469
dose to mouth during dental, 21:22433
dose to mouth from dental, 21:22453
dose to patient during dental, assessment of, 21:14639
dose to patient during, methods for reducing, 21:12979
dose to patient from dental, effects of x-ray equipment on, 21:22515
dose to patients during, 21:22437
dose to scrotum from fluoroscopic chest, 21:28482
dose to skin during diagnostic mammography, 21:24428
doses to children from different x-ray procedures for, comparison of, 25:42412
doses to personnel during, criteria for permissible, 21:8898
dosimetry during, 21:41433
dosimetry during fluoroscopic, of stomach and colon, 21:28483
dosimetry during intraoral, 21:12869
dosimetry during thoracic, in children using fluoroscopy, 21:32686
dosimetry during, evaluation of, 21:24436
dosimetry during, simultaneous patient and phantom measurement for, 21:45642
dosimetry for focal spot, modulation transfer function for, 23:31763
dosimetry for, design of Teflon-coated thermoluminescent probe for, 22:8547
dosimetry for, suitability of units for, 24:7837
dosimetry for, use of data on active bone marrow distributions in, 21:10907
dosimetry in dental, effects of tube voltage on, 21:36675
dosimetry in man during, of subjects of anthropological research, 21:36594
dosimetry in, evaluation of thermoluminescent phosphors for, 21:20220
dosimetry in, use of photographic emulsions for, 21:26444
dosimetry in, use of photoluminescent and thermoluminescent dosimeters for, 22:45522
effectiveness for diagnosing pulmonary embolism, 21:36653
effectiveness for diagnosis of bone metastases from unidentified neoplasms, 25:26846
effectiveness for diagnosis of bone metastases in patients with prostate carcinomas in comparison with scintigraphy using metastable strontium-87, 25:21765
effectiveness for diagnosis of bone metastases in comparison to strontium-85 scintigraphy, 25:11174
effectiveness for diagnosis of brain neoplasms in comparison to scanning, 24:2743
effectiveness for diagnosis of honeycomb lung and pulmonary emphysema in comparison to scintigraphy with iodine-131-labeled albumin macroaggregates, 25:11215
effectiveness for diagnosis of human pulmonary sarcoidosis, 23:50663
effectiveness for diagnosis of hydatid disease of human liver, 25:13494
effectiveness for diagnosis of infections of urinary tract in human children, 23:31835
effectiveness for diagnosis of pancreatitis for surgical evaluation, 24:50972
effectiveness for diagnosis of rare cases of Hodgkin's disease, 25:13541
effectiveness for diagnosis of systemic neoplastic diseases in human bones, comparison of strontium-85 scintigraphy and thermography with, 25:29588
effectiveness for diagnosis of tumors of human liver, 25:58044
effectiveness for lung examination in patients with blunt chest concussions in combination with scintigraphy and ventilation measurements, 25:11135
effectiveness in combination with perfusion scanning for diagnosis of lung diseases, 25:4675
effectiveness in combination with real time computer for volume-versus-time tracing of human heart performance, cinematic, 24:41917
effectiveness in diagnosis of human kidney disorders and tumors in comparison to isotopic methods, 23:29643
effectiveness of lipiodol contrast media, for localization of neoplasms of human lymph system in comparison with radioisotope scanning, 25:58055
effectiveness of neutron, for in vitro localization of bone tumor, 25:42575
effectiveness of percutaneous retrograde arteriography for diagnosis of vascular diseases of brain, 25:19040
effects of diagnostic, on incidence of leukemia in children exposed prenatally or postnatally, 21:18103
effects of fluoroscopic, on induction of malignant lymphomas, 21:22655
effects of, in inducing chromosome aberrations in human embryos, 21:8767
effects of, of vertebral column during pregnancy on development of intrauterine encephalopathy, 21:6642
effects of, on children exposed in utero, survey of, 21:3438
effects of, on development of human embryo, 21:11039
effects of, on development of injuries of kidneys, 21:16492
effects on blood-brain barrier in man, 21:43484
effects on children exposed in utero, x, 22:38482
effects on chromosomes in infants, aberrant, 21:41512
effects on human fetuses, 22:6896
effects on incidence of aberrations in chromosomes of leukocytes in man, latent, 22:51910
effects on incidence of cancer in children following prenatal exposure, x, 22:43368
effects on incidence of cancer in children following prenatal exposure, x, 22:43377
effects on incidence of cancer in children following prenatal exposure, x, 22:43369
effects on incidence of thyroid cancer in human population in USA, 24:895
effects on injury induction in gonads, guidelines for evaluation of, 21:20217
effects on man, factors affecting recovery from, 21:30862
effects on man, fibrosarcomatous, 22:31247
effects on medical personnel, analysis of lethal, 22:31242
effects on offspring of man, latent x, 22:51916
efficiency of positive contrast laryngography, 21:32724
emulsions for electron microscope beta-, properties of, 21:32704
equipment and facilities for, safety survey of federal, 25:42502
equipment and method for supervoltage, with linear accelerator, 24:29809
equipment and method for, using Compton-scattered gamma rays, 23:33447
equipment and method using scintillation camera, 23:33465
equipment and procedures for, physical and technological development for designing of, 24:46639
equipment and procedures for, review of development of, 23:16357
equipment for control of cerebrospinal fluid pressure during, 23:45584
equipment for dental, safety evaluation of, 22:45525
equipment for dental, safety survey of Nassau County, New York, 25:21724
equipment for gamma, optical transfer function for film—lead filter, 24:7638
equipment for neutron, review on accelerator, 25:3471 (CONF-700322-, pp 321-44)
equipment for personnel protection during blood vessel, remote control injection, 23:47882
equipment for stereo, design of, 22:40810
equipment for x, development of electron-optical image brightness intensifier, 21:45459
equipment for, analysis of imaging, 25:39784
equipment for, design of autofluoroscope, 22:6693
equipment for, design of digital autofluoroscope with automatic data processor as, 21:32473
equipment for, design of thermal neutron television, 22:35984
equipment for, development of PDP-9 computer-controlled, 25:26557
equipment for, development of spark chamber—image intensifier, 22:4543
equipment for, image intensifier, 25:39783
equipment for, performance of portable iodine-125-source, 25:21237
equipment for, pneumatic systems for displacing gamma source, 24:25166
equipment for, television control system for x-ray, 23:17833
equipment for, use of image intensifiers as, 21:24259
equipment in U.S.S.R., standards for installation and operation of, 22:6809(T) (AEC-tr-6467/2, (pp 177-94))
equipment safety survey in USA during 1961 to 1968, 25:13464
evaluation for detecting breast lesions in women, xero-, 22:531
evaluation for diagnosis of intracranial disease, 23:18045 (CONF-670958-, pp 71-5)
evaluation for diagnosis of kidney mass lesions in man, 25:16248
evaluation for diagnosis of mammary tumors, 23:45804
evaluation of data in, computer methods for, 23:45780
evaluation of dental, for diagnosis of caries in human teeth, 25:32496
evaluation of kidney, problems in, 22:21561
evaluation of neutron, for clinical diagnostic procedures, 25:49249
evaluation of neutrons for use in, 22:40759
evaluation of selenium-75-labeled methionine for, of lymphomas, 22:4629 (NYO-3723-1(Rev.))
facilities for, of genito-urinary systems, 21:8863
film for gamma, evaluation of, 21:363
film resolution in, for reducing radiation dose to human children during diagnosis, methods for color development of high-speed, 24:21180
films for, variation in automatic processing of, 24:39212 (BRH/DEP-70-13)
fundamentals of tomographic, using automatic exposure techniques, 25:58066
gamma sources for, design of high-activity, 25:51713 (ICRU-18)
genetic and somatic injuries resulting from, 21:4837
grid combinations for diagnostic spot films, use of masonite phantom with barium-filled simulated stomach for evaluation of, 23:45821
grid diaphragm image diffuser for cephalometric, design of, 21:22550
hazards and precautions in, on pregnant women, 21:8818
hazards during pregnancy, x, 21:26593
hazards from chest, 21:41434
hazards from dental, in New Zealand, methods for protection against x, 22:40683
hazards from use of Thorotrast as contrast medium for, of blood vessels, 21:28658
hazards from, during pregnancy, 21:6589
hazards from, during pregnancy, review of, 21:13000
hazards from, Japanese hospital practices for control of, 23:33731
hazards from, of placenta previa, 21:6638
hazards of chest, to man, 23:29867
hazards of dental, to human patients and personnel, methods for reduction of, 23:38661
hazards of dental, to population, 21:12979
hazards of diagnostic, in urological examination in Japan, 21:1758
hazards of obstetric, methods for avoiding, 21:26497
hazards of, during pregnancy, review of, 21:12902
hazards of, effects of x-ray doses on, 21:6500
hazards of, methods of protection against, 21:4801
hazards of, review of, 21:16354
hazards to children and fetuses from in utero exposure, 23:24761
hazards to dental patients and personnel, protection against, 23:38599
hazards to dental personnel, role of head stomatologist in prevention of, 23:38605
hazards to dentists during diagnostic, 23:29645
hazards to developing human fetuses, 24:27711
hazards to gonads and mouth of dental patients, x, 23:38573
hazards to human females, protection against, 23:45767
hazards to human fetus, effects of stage of pregnancy at exposure on x, 24:25579
hazards to human fetus, review of x, 22:43472
hazards to human fetuses, protection against, 23:20415
hazards to human ovum and fetus, control of, 23:10011
hazards to human patients during diagnosis, 24:19324
hazards to human radiologists using contrast media, 24:17046
hazards to man during dental exposure, 23:29522
hazards to man during dental x, 23:26940
hazards to man, estimation of, 23:48052
hazards to man, estimation of, 23:20292
hazards to man, iatrogenic, 23:38658

hazards to patient during dental, effects of energy range on, 23:31845
hazards to patients and personnel during diagnostic, review of, 22:47626
hazards to personnel during, of bladder and urethra of male patients, 23:41321
human bone development study by, protective measures used, 21:419
image evaluation for, computer methods for, 24:36773
image formation in, effects of x-ray scattering on, 24:7951
image intensifier for fluoroscopic, effects of, on diagnostic effectiveness, 21:8859
image interpretation for, factors affecting, 24:36780
image quality evaluation for, methods for human lungs using phantoms, 24:27627
image quality for fast neutron, theory of, 25:16242
image quality for, method for standardizing, 24:36774
image quality in gamma, use of optical transfer function for evaluation of, 24:50575
image quality in, effects of crystal size and layer thickness of screen on, 21:14678
image quality measurements for, test chart for, 24:25283
image quality of screen—intensifier—television system for, test model for, 24:36658
image recorders for neutron, characteristic curves of induced density vs exposure for film—intensifying screen, 23:14104
image resolution for, by mathematical processing, 25:4611 (CEA-R-3920)
image systems for, parameter optimization of, 24:36659
image systems for, performance of, 24:36657
images following myelographic, effects of diluted contrast media on improving quality of, 25:13496
imaging system for, contrast perception in, 25:8496
immobilization of human infants during diagnostic, design of equipment for, 22:19014
incidence in pregnant women, demographic analysis of, 24:780
information systems for, review of, 24:34449
information yield from low-dose, in dentistry, methods for increasing, 21:16364
information-search system development for use in archives of, 23:35800
instrumentation and procedures for, in Japan, development of, 24:21235
interpretation for, factors affecting, 24:36781
iodine-125 photons in, 22:2521 (ORNL-IIC-10(Vol.1), pp 197-232)
iodine-125 source for, design of instrument containing, for use in measurement of mineral content in bones, 21:1772(R) (ORO-2401-8)
leukemia incidence in personnel in, effects of age on, 22:38490
licensing technicians using diagnostic, status in USA in 1971 of standards for, 25:26787
life span of personnel in, in USA during 1938 to 1965, 22:38456
method for detecting rectal cancer, 21:28576
method for determination of human organ volume, 22:38360
method for diagnosis of human breast tumors using x rays, 25:24269
method for diagnosis of human choroid plexus papillomas using x rays, 25:24265
method for diagnosis of human kidney failure using x rays, 25:24264
method for diagnosis of osteoporosis of bone in man, 22:2520 (COO-1422-17)
method for diagnosis of trauma and subdiaphragmatic abscess in man, gold-198 and iodine-131, 22:532
method for differential, using computers, 24:29807
method for distribution of bone marrow in bones of neonates, 24:4652
method for eliminating magnification in radiograms for scintiscan superimposition, 23:26836
method for elimination of colic gases during abdominal, 22:4640
method for human jaw bones, 24:25523
method for internal human, using accelerator-produced muons and spark chambers for three-dimensional pictures, 24:34457
method for kidneys in patients with urogenital tuberculosis, 21:34728
method for low-voltage soft, in examination of human skin tissues, 23:29613
method for making microradiographs of bone samples for computer data analysis for measurements of marrow cavity size, mineral content, trabecular thickness, and volume, 25:21750 (ANL-7760(Pt.2), pp 63-94)
method for manual processing of x-ray films used in, 23:12151(T) (TT-67-56003/5, pp 725-9)
method for micro-, of dog bones following strontium-90 administration, 23:12206 (UCD-472-115, pp 52-6)
method for neck bones in man, 21:26526
method for production of infinite number of laminagrams from finite number of radiographs, 25:24256
method for rats, using amobarbital anesthesia, 23:29606(T) (TT-68-50001/1, pp 97-9)
method for study of thyroid function, in vitro, 22:4632(T) (AERE-Trans-1073)
method for testing cardiac pacemakers for battery depletion, 25:51964
method for thin tissue sections using iron-55, 24:6085
method for, evaluation of x-ray fluorescence analysis as, 23:24679 (UCRL-50007-68-2, pp 51-8)
method using contrast media, for diagnosis of aortic valve insufficiency in human heart, 24:9893
method using thermal neutrons for delineation of tumors in human bones, 25:21751
methods for arteries in kidney tumors, 24:39535
methods for clinical examination of human heart, evaluation of, 23:33752 (CONF-670649-26)
methods for contact, of thin bone slices, 23:12144(R) (COO-1601-15)
methods for contrast media lymphography, 24:42013
methods for determination of location and size of tumors for radiotherapy planning, review of, 23:884
methods for diagnosis and evaluation of pulmonary embolisms, 23:38642
methods for diagnosis and evaluation of pulmonary embolisms in combination with radioisotope lung scanning, 24:50985
methods for diagnosis and nuclear medicine research, 25:13498
methods for diagnosis of human hepatic metastases using iodine-131, 24:48622
methods for diagnosis of malformations of blood vessels in human heart using, 24:29818
methods for diagnosis of pathological conditions of pancreas, 24:48614
methods for diagnosis of pseudogout, 21:32722
methods for diagnostic dental, using samarium filters for improvement of spectral sensitivity of x-ray beam and reduction of dose to gonads and skin of patients, 24:29813
methods for dose control in, 23:50550 (PHS-999-RH-33, pp 72-7)
methods for dynamic systems and organs, assessment of errors in, 25:538
methods for estimation of weights of bones of human hands, 25:4641 (CONF-700515-, pp 224-36)
methods for evaluation of films, 23:45809
methods for evaluation of performance of cardiac pacemakers in man using, 24:29817
methods for handling human children during diagnosis, 23:50708
methods for human paranasal sinuses for optimal results, 25:13507
methods for human urinary tract using injection of contrast media into kidney pelvis, 24:17098
methods for improvement of, 22:14906 (BNL-50057, pp 123-37)
methods for localization of treatment field for post operative radiotherapy of human brain tumors, evaluation of, 24:41937
methods for mammary gland, for reduction of exposure time for patients, 24:25510
methods for measurement of bone density and mineral content, 25:4618 (CONF-680211-, pp 159-77)
methods for measurement of bone mineral content, 25:4640 (CONF-700515-, pp 205-23)
methods for measurement of bone mineral content in patients with osteoporosis, 25:4639 (CONF-700515-, pp 199-204)
methods for measurement of bone mineral content in man in comparison to radiometric analysis, 25:4622 (CONF-680211-, pp 216-49)
methods for measurement of bone mineral density mass, and thickness, 25:4617 (CONF-680211-, pp 135-59)
methods for measurement of mineral content of bones, 25:4616 (CONF-680211-, pp 115-35)
methods for measurement of mineral content of bone using two different x-ray beams, 25:562
methods for measurement of mineral content of human bones, 25:4637 (CONF-700515-, pp 188-94)
methods for measurement of mineral content of human bones, 23:9979 (COO-1422-23)
methods for measurement of mineral content of human bones, 25:4638 (CONF-700515-, pp 195-8)
methods for measurement of weight and volumes of bones in human skeleton, 25:4652 (CONF-700515-, pp 365-82)
methods for measurements of bone density and mineral content, 25:4619 (CONF-680211-, pp 177-91)
methods for measurements of bone mass with automatic computer film calibration, 25:4613 (CONF-680211-, pp 27-80)
methods for measuring mineral content of human bones, 25:4615 (CONF-680211-, pp 95-115)
methods for parallel plane radiography of human mamma, 21:20299
methods for radiation protection of hip in human infant, 24:14508
methods for small intestine in man using double contrast, x, 25:4686
methods for urinary tract using contrast medium with lithium, evaluation of, 25:557
methods for use during surgery for kidney stones, 24:50974
methods for video fluoroscopy using image intensifier, for use for human children, 23:50681
methods for visualization of biologic structures using fast or thermal neutrons, comparison of roentgenographic techniques with, 23:38683
methods for visualization of fatty tissue using deuterium oxide, 25:46918(P)
methods for visualization of small blood vessels following intravenous injection of thorium dioxide, 24:41922
methods in combination with analog computer data analysis for measurement of mineral content of bones of human lumbar vertebrae, 25:4628 (CONF-680211-, pp 331-51)
methods in combination with dye precipitation for measurements of mineral content of human normal and osteoporotic bones, 25:4629 (CONF-680211-, pp 411-21)
methods in combination with high-speed densitometers and computer data analysis for measurement of bone mineral content, 25:4620 (CONF-680211-, pp 191-203)
methods of, using γ radiation, 21:20294
methods using colloidal gold, evaluation of, 23:33751 (CONF-670649-3)
methods using half-value layer for characterizing x-ray energy, 24:36777
methods using slow neutrons with deuteration of tissues, evaluation of clinical applications of, 25:8709 (DP-1229)
methods with computer film analysis for measurement of bone mineral mass, 25:4614 (CONF-680211-, pp 80-95)
monitoring equipment for dental, Surpak method for, 23:35725 (MORP-68-11(Rev.))
monitoring of dental offices during, criteria for, in Germany, 24:9831
neutron source evaluation for, 25:19034(T) (AEC-tr-7219)
neutron source evaluation for, 25:32492
neutron source evaluation for, 25:32491
neutron source evaluation for, 25:32489
neutron source evaluation for, 25:32493
neutron source evaluation for, 25:32490
neutron source evaluation for, californium-252 and accelerator, 25:32494
neutron source evaluation for, californium-252 and 14-MeV beam, 25:32495
neutron source evaluation for, conference on, 25:32488
neutron source for, evaluation of californium-252, 25:15849
neutron, development of antiscatter grid for low-energy, 23:50694
performance for analysis of macromolecular complexes in chloroplasts of spinach, 22:14905 (BNL-50057, pp 111-22)
performance for detection of pit dust deposited in human lungs, 24:6076
performance for localization of hypophyseal tumors, 22:28228
performance in combination with photometric scanning for determination of mineral content of human radius and ulna, 25:13509
performance in diagnosis of pyelonephritis in relation to histological findings in humans, 22:36322
performance of chromium-51 for, during phosphorus-32 radiotherapy of neoplasms in esophagus of man, 22:15021
performance of cobalt-60, for diagnosis of malignant tumors of head, neck, pelvis, and thorax, 22:28585
performance of double-beam, for determining calcium content of human bones, 24:27638
performance of DTPA-uranium complexes for, in swine, 22:10677 (BNWL-480, pp 99-106)
performance of neutron, for medical research and pathology, review on, 25:49223 (CONF-710402-(Vol.2), pp II.49-58)
personnel associated with, legislation for licensing of, in USA, 23:15770
personnel monitoring for, 24:17045
photographic film and intensifying screens for, image quality of, 24:2451 (PHS-999-RH-38)
photographic magnification in, 24:12196
preparation and use of labeled compounds for, 23:48091 (UCLA-12-724, pp 43-70)
principles of, review of basic, 24:9907
problems of image quality in, 23:50690
proceedings of the fifth session of the European Society of Pediatric Radiology, 23:41367
protection against excessive radiation exposure during, 21:10912
protection against hazards from dental, 21:34660
protection against hazards from, methods for, 23:16329
protection against hazards of dental, review of progress in, 23:45764
protection against hazards of dental, review of progress in, 23:45765
protection against injuries of human female reproductive system during, 21:41408
protection against somatic radiation effects during, of chest, 21:10929
protection during dental, design of shielding, 21:14638
protection during dental, standards for, 22:4615
protection during dental, use of open-end lead-lined cones for, 21:28456
protection during dental, use of open-ended metal column on x-ray machine for, 21:22417
protection during diagnostic, effects of construction of scattered radiation screens on, 21:36613
protection during, device for, 21:12847
protection in dental, design of treatment room, 21:14659
protection in, radiobiological basis for, 21:18158
protection of personnel in, responsibility for, 23:31814
protection principles in, 21:30821
protection standards for, principles of, 21:20184 (SZS-13/66)
protection to patients and personnel during dental, code of practices for, 22:31178
quality in diagnostic, effects of half-value layer on, 21:16369
quantitative transmission, as adjunct to scintiscanning for determining regional pulmonary function in man, 24:29805
radiation absorbers for intraoral, 25:23924
radiation beam filtration and limitation in x-ray equipment used for, in New York City, improvements in, during 1959 to 1966, 24:2745
radiation dose absorbed by bone marrow in children during diagnostic, method for calculation of x, 25:24149 (CEA-CONF-1697)
radiation dose absorbed by bone marrow in human infants and children during diagnostic, x, 25:24177
radiation dose reduction in x, methods for, 25:46838
radiation dose to bone marrow, gonads, and skin of man during cardiac catheterization and angiocardiography, x, 22:43338
radiation dose to fetus during diagnosis using fluoroscopy or film, 22:19450
radiation dose to fetus of man during pelvic, effects of equipment design on x, 22:36280
radiation dose to gonad of man during diagnostic, 22:38323
radiation dose to gonads and skin of human population of New Orleans from diagnostic, x, 22:28534
radiation dose to gonads in population of New York City from diagnostic, x, 22:28532
radiation dose to gonads in U. S. population from diagnostic, calculation of x, 22:28531
radiation dose to gonads of man during dental, x, 22:49440

radiation dose to gonads of man during, in USA, survey of genetically significant x, 23:43784
radiation dose to gonads of man during, x, 22:21506
radiation dose to gonads of man during, x, 22:25835
radiation dose to gonads of man in Yugoslavia from diagnostic, 22:38321
radiation dose to head and neck of patients during, of skull, x, 25:6717 (BRH/DEP-70-27)
radiation dose to human fetus from pelvic, during pregnancy, x, 22:8537
radiation dose to human fetuses during diagnostic, relation of Down's syndrome incidence to x, 25:16368
radiation dose to human fetuses during, use of ionization chamber to measure x, 22:47539
radiation dose to human gonads and skin during dental, x, 22:49373
radiation dose to human gonads during dental, phantom measurements of x, 23:50527
radiation dose to human patients during chest, x, 23:2839
radiation dose to human patients during diagnostic, proposed legislation for control of, 23:6459
radiation dose to human patients during, methods for control and reduction of, 23:6456
radiation dose to human patients from, in comparison to radioisotope scanning, 23:50542
radiation dose to human phantom during simulated spinal, methods for reducing x, 25:46837
radiation dose to human tissue during diagnostic, research programs on, 23:45826
radiation dose to human tissues during mammary gland, x, 25:16255
radiation dose to man and personnel during x, 22:43339
radiation dose to man during dental, automatic recording control for regulating x, 25:46850
radiation dose to man during dental, elimination of leaks and use of beam collimators and filtration for reducing x, 25:21719
radiation dose to man during dental, program for reducing x, 24:44504
radiation dose to man during dental, use of standard man phantoms for measurements of x, 22:25838
radiation dose to man during dental, use of standard man phantoms for measurements on x, 22:25839
radiation dose to man during dental, use of standard man phantoms for measurements of x, 22:25840
radiation dose to man during diagnostic, 22:19349
radiation dose to man during diagnostic, calculation of x, 22:38324
radiation dose to man during diagnostic, method for measurement of x, 25:19038
radiation dose to man during roentgenokymographic, use of shielding for reduction of x, 22:45573
radiation dose to man during, of uterus and fallopian tubes, x, 22:51660
radiation dose to man during, x, 23:6476
radiation dose to man from dental, review of hazards of x, 22:45524
radiation dose to man in, calculations for x, 24:44501
radiation dose to man in, in relation to diagnostic accuracy, x, 25:26858
radiation dose to medical personnel during diagnostic, use of photoluminescent dosimeters to determine x, 23:35754
radiation dose to medical personnel during heart catheterization, x, 25:11059
radiation dose to oral tissues during diagnostic dental, beam profiles for reduction of x, 25:26817
radiation dose to patients during diagnostic fluoroscopic, effects of screen components on x, 25:26815 (BRH/DMRE-71-2)
radiation dose to patients during, relation between value of diagnostic information gained per unit dose and, 25:46909
radiation dose to tissues of human head and neck during dental, using intracavitary machine, x, 25:19001
radiation dose to tissues of man during dental, effectiveness of $CaSO_4$-Mn thermoluminescent dosimeters for measuring x, 25:21719
radiation doses from, to human organs, measurement of, 22:43330
radiation dosimetry during gynecological and obstetrical, x, 24:7956
radiation dosimetry for personnel in, x, 22:43332
radiation effects from diagnostic, on human children, latent genetic x, 23:6430
radiation effects on development of embryos and fetuses following, x, 22:49603
radiation effects on man following, review of carcinogenic, 22:45535
radiation exposure from dental, in Israel, 22:43304 (NP-17517)
radiation exposure from, hazards of x, 22:49335
radiation exposure of patient and examiner in, 23:47679
radiation exposure of patients and personnel during, accidental x, 23:45739
radiation hazards and protection of patients and medical personnel during, 21:393
radiation hazards and protection of patients and medical personnel during, 21:393
radiation hazards during dental, x, 22:28486
radiation hazards from, of chest, reduction of somatic, 21:10929
radiation hazards to human embryos and fetuses from diagnostic, of pregnant mother, x, 25:21913
radiation hazards to man during, perspectives on potential x, 23:48238 (PB-184782)
radiation hazards to man from diagnostic, x, 22:21595
radiation hazards to man from x, 22:10780
radiation hazards to man holding animals during, 22:51810
radiation hazards to patients and personnel from diagnostic, 25:32610
radiation hazards to patients during, ICRP recommendations for protection against x, 25:16201
radiation injuries from the use of Thorotrast in, 21:6637
radiation injuries to human patients following diagnostic, review of, 23:50705
radiation monitoring of personnel in departments of, value of film badges for, 23:45738
radiation protection code-of-practice for dental, Australia, 25:42496
radiation protection during, 21:30813
radiation protection during dental, 21:34662
radiation protection during dental, methods for, 21:28475
radiation protection during dental, methods for, 22:19334
radiation protection during dental, standards for, 22:19334
radiation protection during diagnostic, for patient and radiographer, 21:8863
radiation protection during, in pregnancy, 21:24502
radiation protection during, recommendations for, 25:24190
radiation protection for patients and personnel during dental, code of practice for x, 22:31175
radiation protection in dental, performance of equipment for, 21:24443
radiation protection in, review of need for x, 24:2822
radiation protection methods for medical personnel and patients during diagnostic, 25:42493
radiation protection methods for personnel during overhead fluoroscopic, 25:21723
radiation protection methods in pediatric, x, 24:4634
radiation protection of gonads during, design of shield for, 25:37828
radiation protection of human gonads during pelvic, use of aluminum filters for, 25:42447
radiation protection of man and personnel during dental, recommendations for x, 22:45551
radiation protection of medical personnel during prolonged, of patients, 22:49328
radiation protection of patients and personnel during, 24:779
radiation protection of patients during diagnostic, ICRP standards for, 25:42453
radiation protection of patients during, in Louisiana, standards for, 21:36591
radiation protection of personnel, during fluoroscopy examinations, 21:22457
radiation protection problems in, used with surgery, 21:16368
radiation protection programs for dental and medical personnel during, 25:8690
radiation protection programs for patients and personnel during survey of, 23:9933 (MORP-68-6)
radiation protection programs for patients and personnel during, 23:9967
radiation protection standards for dental, 22:15009
radiation protection standards for dental, in Maryland, 23:45775
radiation reflection by building materials during dental, x, 22:40724
radiation scattering in, measurement of, 24:16871
radiation source for, preparation and use of metastable technetium-99 point gamma, 24:14187
radioinduced myelopathy from Thorotrast used in, of central nervous system, 21:1802
radioinduced vascular lesions in mandible of man following, x, 22:10831
radioisotope applications in, in Soviet Union, 21:6316(T) (AEC-tr-6466/2)
radioopaque agent for respiratory tract, testing tantalum aerosols as, 25:42558
regulations for use of x rays in, 22:4611
regulations for use of x-ray equipment in, in Belgium, 22:38286
regulations regarding dental, in U. S, 22:43325
research for diagnosis of cancer, 22:51875 (TID-4060(1st Ed.))
research in Soviet Union during 50 years, review on, 22:4638
review of current journal literature in, 23:43816
review of hazards of, to lungs, 23:26790
review of literature in, translation of Polish, 24:46624(T) (TT-69-50002/4)
review of Polish, 23:12150(T) (TT-67-56003/5)
review of recent developments in, 23:50678
review of uses in medicine, 24:27629
safety of dental, 22:15009
safety of pelvimetry using, review of, 21:1749
safety of x, of human teeth, 23:4962
safety of, during use in dental practice, 21:14659
safety of, duties of safety officers in, 22:51640
safety standards used in, of pregnant women, diagnostic, 21:8818
safety, review of pelvic, 21:1749
safety, review of radiation accidents involving, 21:1762
screen for, two-lens system for optical transmission of points on, 23:50208 (NP-17998)
screen-film systems for, modulation transfer function of, 22:25658
shielding for dental, stainless steel cone liner, 23:31797
shielding for x-ray equipment used in, 23:20978
shielding requirements for rooms used for dental, method for calculation of, 22:19350
shielding requirements for x-ray equipment used in dental, 22:28488
spectra of scattered x radiation during dental, 23:9997
statistics on x-ray equipment and personnel used in, in USA as of June 1965, summary of, 24:2741
subtraction technique for seriographic angiography in man, 24:46626(T) (TT-69-50002/4, pp 443-6)
survey for diagnosis of human lung neoplasms, value of miniature radiography for, 23:45816
teaching programs for dental, development of phantom of human head for use in, 23:9935 (MORP-68-8)
technique for reducing radiation dose in, performance and uses of split-second, 23:10001
techniques for angiography in human children, roentgen, 24:46625(T) (TT-69-50002/4, pp 418-25)
Thorotrast as contrast medium for, late pathological effects of use of, 21:22591
Thorotrast use in, as contrast medium for mammary gland, 21:24512
tissue contrast in, effects of x-ray energy on, 22:51803
tomograph reduction for use in radiation dose planning for therapy, use of optic pantograph for, 25:16146
training courses in, for hospital residents in gynecology, 23:41477
training of medical personnel in, relation of, to radiation dose to patients, 23:50720
training program for personnel in, 21:45736
training programs at Puerto Rico Nuclear Center, 22:23481(R) (PRNC-102)
use during pregnancy, criteria for, 23:31973 (NYO-3970-20)
use for classification of pneumoconioses, 21:36668
use for determination of content of calcium and strontium phosphates in fruit stalks of peas, 21:41333
use for determination of maturity of infant humans, evaluation of, 22:28551
use for determination of radium position during radiotherapy of gynecological tumors by tamponade technique, 21:26450
use for determining effects of age and sex on alveolar bones of dogs, 22:28622 (ANL-7278, pp 95-131)
use for determining γ-radiation effects on development of larvae of Sitophilus in wheat grains, 24:32167
use for diagnosis in USA general hospitals, survey for 1963, 1966, and 1968, 25:24228 (BRH/DBE-70-8)
use for diagnosis of brain lesions in man, combined use of radioisotope scanning with, 22:38397
use for diagnosis of γ-radioinduced dyscrasias in skeleton of baboons, 23:2942
use for diagnosis of human pulmonary disorders, review of combined radioisotope scanning and, 23:2856 (UCLA-12-687)
use for diagnosis of lung diseases, 21:43481
use for diagnosis of necrosis of hip bone following radiotherapy of female genital carcinoma, 21:13026
use for diagnosis of pulmonary stenosis in man in comparison to iodine-131 scanning method, 24:2734
use for diagnosis of reno-vascular hypertension in man, 22:536
use for diagnosis of respiratory diseases in children in comparison to scanning using iodine-131, 24:2735
use for diagnosis of silicosis, relation of, to heart x-ray shadow, 21:36669
use for diagnosis of tuberculosis, 21:41434
use for evaluation of latent skeletal lesions induced by ingestion of radium-226 by dial painters, 24:2659
use for evaluation of regeneration of human liver following surgical resection, 24:29811
use for examination of bladder during radiotherapy, 21:45705
use for measurement of dose distribution during telecobalt therapy, 21:28553
use for scanning of human brain, efficiency of, in comparison to arteriograms, encephalograms, and radioisotope scanning, x, 23:2902
use for study of radium and x-radioinduced deformaties in bones of human children following therapy for benign and malignant tumors, 22:31151
use for urography in man in comparison to scanning with iodine-131, mercury-197, mercury-203, 23:50718
use in diagnosis of skeletal changes in man with diabetes mellitus, 22:33862
use in diagnosis of urinary tract diseases, review of advances in, 22:28602
use in diagnostic veterinary practice, dose to personnel from, 23:29531
use in gastroenterology, review of new methods for, 24:32075
use of accelerator-produced high-energy x radiation for, during supervoltage cancer therapy, 21:22506
use of angiographic, in combination with percutaneous transhepatic cholangiography for diagnosis of drug-induced jaundice, 25:13492
use of angiography, for analysis of defects in human liver scans, 24:7952
use of computer processing of scanning data in, 22:38402
use of computers for analysis of results of, 22:31003
use of direct photon absorption technique for bone mineral, in rats, 21:39323 (COO-1422-11)
use of γ, for diagnosis of spinal arachnitis in man, 22:23571
use of high-energy scattered x radiation from linear accelerator for, of man, 22:25907
use of hysterographic, in planning treatment of uterine cancer by means of cobalt-60 beads, 21:3424
use of image intensifiers for fluoroscopic, effects of, on radiation dose received by patients and operators, 21:8859
use of impedance pneumograph actuator for lung, during respiration, 22:49400
use of intra-arterial Thorotrast for, effects of, on incidence of chromosome aberrations in man, 22:23494
use of intraoral shielding and rectangular collimation for reduction of absorbed dose during dental, 22:51811
use of iodine-131 and mercury-197 for double tracer, of heart, 22:23585
use of iodine-131-labeled hippuran for, of kidney, 22:43375
use of micro-, for determining radiation injuries in intestine of guinea pigs, 21:26599
use of strontium-85 in, of human bone diseases, evaluation of, 23:873
use of technetium-99-labeled pertechnetates for, of stomach, 22:10786
use of technetium-99m for, of thyroid gland disorders in man, 22:19386
use of television in conjunction with, for radioprotection of patients and personnel, 21:8824
use of Thorotrast as contrast medium for, late pathological effects of, 21:1778

use of Thorotrast for carotid, effects of, on development of cervical Thorotrastoma, 21:10945
use of Thorotrast for, in Japanese army hospitals, late pathological effects of, 21:24574
use of Thorotrast in, development of kidney tumors following, 21:41472
use of tritium oxide for, determination of maximum permissible levels for, 22:45543
use of water phantom to calculate tissue sorption from, 23:4954
use of, for diagnosis of brain neoplasms, comparison with other methods, 21:12916
use of, for evaluation of effects of radiotherapy of gynecologic cancers on lymph system, 21:8861
use of, for evaluation of effects of radiotherapy on metastatic cancers in lymph nodes, 21:8861
use of, for evaluation of small intestine absorption capacity, 21:10956
use of, for placing glass dosimeters in ureters, 21:10906
use of, in studies on hypermineralization of bone, 21:8846 (MIT-952-3, pp 1-201)
use of, in tuberculosis cases, relation of, to incidence of leukemia, review of, 21:12991
use of, to determine geometrical relations in radium needle therapy, 21:6532
use to determine effects of malnutrition in human children, 22:31180
use to follow changes in cervical lymphatic circulation after irradiation or surgery, 21:22576
use to study functional changes in human lymph system following γ radiotherapy for cancer, 21:20356
uses for indirect spleno-portography, methods and results, 21:20293
uses of neutron, 23:2534 (ORNL-IIC-16)
visual examination of radiographs, reliability of, 24:32054 (COO-78-225)
x-ray generator peak voltage measurements for, 23:857
x-ray spectra for, computer evaluation of, 25:21775
ytterbium-169 photons in, use of, 22:2521 (ORNL-IIC-10(Vol.1), pp 197-232)

RADIOGRAPHY, INDUSTRIAL
(Use of particles or radiations from radioisotopes or other sources for inspection (determination) of conditions existing in materials; photographic or other means are used for recording of transmitted radiation)
see also Autoradiography
book: Course on Radiation Protection in Industry, 23:840
book: Handbook of X- and γ-Defectoscopic Specialists (In Russian), 23:26488
book: Industrial Radiology, 23:43479
book: Luminescence Radiography, 23:33549
book: Measuring Methods Using Ionizing Radiation, 25:29391
book: Nondestructive Testing, 23:40964
book: Porous Carbon Solids, 22:12333
book: Radiation Defectoscopy, 22:37959
book: The Photographic Action of Ionizing Radiations, 24:2455
californium-252 neutron source for, development of portable, 24:4849(R) (BNWL-1177)
camera for neutron, using californium-252 source for detecting contraband material, development of portable, 25:26437 (BNWL-SA-2865)
cameras for, design of cable-type coupling for changing sources in, 22:16749(P)
cameras for, using promethium-147 and ytterbium-169 or americium-241 and cobalt-57, 23:2519 (ORNL-4329)
certification requirements for weldment inspection personnel in, 25:16111
collimator for inspecting aircraft engines, description of gamma-source, 22:38128
collimator for neutron, advantages of divergent beam, 21:41172
color films for 100 kV to 15 MeV, performance evaluation of, 23:33360
comparison of gamma, with x ray and ultrasonic testing, 21:243
Compton scattering effects in, 24:44220
conference on methods and uses of, Antwerp, Belgium, March 27 to 28, 1969, 24:29469 (CONF-690339)
data on 5-MeV linear accelerator with 200- to 450-mm steel, 22:9736
detection system for neutron, 22:10618
detectors for alpha, performance of plastic track, 25:42093
detectors for neutron, image enhancement in thin-film cellulose nitrate track, 25:4346
detectors for neutron, sparking techniques for image enhancement in thin-film dielectric track, 25:4348
development and evaluation of γ, 21:19875
development and use of neutron, in France, 23:33346
development and use of neutron, in France, 24:36528(T) (NP-tr-1900)
development and uses of gamma and x-radiation, review on, 25:21265
development and uses of neutron, 25:54930
development and uses of neutron, literature survey on, 25:26439 (UJV-2545-R,T)
development for inspection of aircraft ordnance devices, 22:37957
development of color, 23:17719
development of films for color, 21:10558
development of mobile unit for, 22:28033
development of neutron, 24:16813
development of neutron camera for, using californium-252 source, 25:18617
development of neutron, for inspecting mixed-oxide fuels, use of radiographic analogues in, 25:57698
development of neutron, for welded joints in reactors, 25:57680 (ORNL-TM-3561)
development of neutron, in France, 21:41169(T) (ORNL-tr-1780)
development of neutron, in France, 22:16790
development of neutron, potential for, 24:407
development of neutron, using californium-252, 23:38173(R) (BNWL-1085)
development of nuclear, for nondestructive testing of coatings, 22:23242
development of proton, 25:39785
development of radioisotope and x-ray, review of 1966 to 1969 literature on, 25:29293
development of televised, for reactor materials and components, 25:48767 (ORNL-TM-3300, pp 304-12)
development status 1966, 22:49043
development status of, review of, 22:33620
developments in, 25:18870
developments in gamma, for detecting flaws, 23:19916
developments in neutron, 24:16812
developments in neutron, for inspection of reactor fuels, 24:39207 (IN-1317, pp 233-381)
developments in neutron, in France, 23:11731 (CEA-CONF-1075)
diagnostic analysis of images in, use of on-line computers for, 21:16250
display of neutron, use of scintillation plate for direct, 23:14112
dose to personnel during γ, 22:45580
equipment and method for concretes, 24:27306
equipment and method for gamma, using radioisotope sources, Australian standards for, 25:34841
equipment and method for inspection of metal bonding, alloys, and fuel elements, 23:2536
equipment and method for measuring dimensional changes in radioactive materials, 24:46441(R) (AERE-R-5792)
equipment and method for multiple-exposure automatic, of fuel elements during and after fabrication, 25:6510
equipment and method for neutron, 24:39163 (CEA-CONF-1530)
equipment and method for neutron, 24:48236(P)
equipment and method for neutron, for inspecting reactor materials, 25:21264
equipment and method for neutron, in resonance region, 25:8442
equipment and method for neutron, of irradiated fuels, 23:33352
equipment and method for neutron, using track-etch techniques, 25:6512(P)
equipment and method for post-irradiation testing of SNAP-8 fuel elements, 25:4252
equipment and method for producing stereoscopic radiographs using two neutron sources, 23:16059(P)
equipment and method for testing iron alloys using cold neutrons, 24:16811(P)
equipment and method for three-dimensional x-ray holography, 25:4404
equipment and method for tomographic, 25:349
equipment and method for underwater cold-neutron, of radioactive objects, 25:57679(T) (LB/G-2986)
equipment and method for x-ray, for measurement of tungsten thickness on inside walls of copper tubes, 24:14220
equipment and methods for aircraft structures using thulium-170 gamma source, 25:44564
equipment and methods for liquid propellant rocket engine components, 23:17723
equipment and methods for neutron, development of, 24:14222
equipment and methods for neutron, using accelerator source, 25:51743
equipment and methods for, historical development and current status of, 25:34835
equipment and methods for, in Japan, review of, 24:31634
equipment and methods for, review of, 23:43481
equipment and methods for, review of, 25:34834
equipment and methods for, standard for, 25:32151
equipment and procedures for, 21:337
equipment and procedures for high-resolution micro-, using ultrasoft x rays, 22:342 (ORNL-IIC-10(Vol.2), pp 522-56)
equipment and procedures for high-speed, using flash x-ray systems, 21:8555
equipment and safety hazards for pipeline, 23:6275
equipment and sources for neutron, 24:39165 (CEA-CONF-1543)
equipment and techniques for improved resolution neutron, 21:19986 (LA-DC-7762)
equipment and techniques for low-voltage, 21:26893 (ORNL-P-3019)
equipment design for gamma, 21:41222
equipment design for, review of, 21:243
equipment for and performance of TRIGA NEUTROVISION system for, 25:48762 (CONF-710402-(Vol.3), pp IV.78-86)
equipment for automatic analysis of radiographs of zoned reactor fuels, densitometer, 23:17825 (WAPD-TM-769)
equipment for betatron, selection of optimum thickness of metallic image-intensifying screen, 25:34824
equipment for cobalt-60, for testing of steel, performance of copper screens and lead filters in, 25:51741
equipment for fast-neutron, evaluation of accelerator sources and detection, 24:8790
equipment for flash, development of pulsed electron linear accelerator PHERMEX as, 21:31655 (LA-3241)
equipment for gamma, design of control systems for, 24:400
equipment for gamma, of construction materials, design and operation of, 25:34822
equipment for gamma, of welded components in nuclear power plants, effects of background radiation on performance of, 25:34823
equipment for gamma, optical transfer function for film—lead filter, 24:7638
equipment for gamma, transistorized time exposure meter for, 22:28252
equipment for γ, principles and defects of, 25:11089
equipment for heavy-gage steel, using high-energy source, development of, 23:51054
equipment for hot cell, neutron, 22:4371
equipment for inspection of light metals, design of portable, 23:20028
equipment for inspection of thick-walled metal parts, use of 8 MeV linear accelerator, 24:10890
equipment for inspection of welds in nuclear fuel elements, 24:9617(P)
equipment for linac x-ray, characteristics of lead foil screens in, 23:38212
equipment for neutron, at DMTR, 22:16922
equipment for neutron, calculation of optimum thickness of image screen for, 25:2413
equipment for neutron, design of, 22:37914(P)
equipment for neutron, design of, 23:43483
equipment for neutron, design of, 25:18618(P)
equipment for neutron, design of, 25:54931(P)
equipment for neutron, design of television, 24:5841
equipment for neutron, development of dielectric track detector, 23:38294(P)
equipment for neutron, for detecting defects in steel-reinforced concrete, design and performance of, 25:4249
equipment for neutron, image-detecting plate for, 22:37913(P)
equipment for neutron, of HFR irradiation capsules, design of, 25:51732 (RCN-135)
equipment for neutron, performance of 5.5 MeV linear accelerator with beryllium source, 24:25234
equipment for neutron, performance of Cockcroft-Walton Accelerator, 24:399
equipment for neutron, review on accelerator, 25:3471 (CONF-700322-, pp 321-44)
equipment for neutron, using californium-252 source, design and operation of portable, 24:50533
equipment for pipeline weld inspection, radiation source carriage for, 23:2490(P)
equipment for pulsed x-ray, beam control of electron linear accelerator, 22:11758
equipment for reading radiographs from, development of closed-circuit television, 25:8440 (ORNL-4600, pp 266-70)
equipment for steel, use of electron linear accelerator, 23:15311
equipment for thermal neutron, design of, 23:19918(P)
equipment for thermal neutron, development of portable, 25:29286 (BNWL-1329)
equipment for thermal neutron, performance of sealed-tube neutron generator and graphite moderated system, 25:42027 (RFP-1706)
equipment for thick-walled objects, betatron, 22:44551
equipment for underwater, design of, 25:18614(P)
equipment for weak bremsstrahlung production for biophysical micro-, 21:24147
equipment for x-ray, development and performance of flash, 21:19874
equipment for x-ray, development of beta-excited sources for, 23:2532(P)
equipment for x-ray, of radioactive objects, design and operation of, 25:57688
equipment for, design and operation of, 25:8443
equipment for, design characteristics of electron linac, 23:25755
equipment for, design of, 25:57889(P)
equipment for, design of flash x-ray actuated trigger switch, 22:28247
equipment for, design of gamma camera, 22:47393(P)
equipment for, design of gamma radiation positioning tip for, 22:42998
equipment for, design of improved fluorescent screen, 22:21368(P)
equipment for, design of improved source holder, 25:32152(P)
equipment for, design of portable, 25:21258
equipment for, design of remote-control gamma defectometer as, 22:19177
equipment for, design of sealed-tube fast neutron generator, 23:38214
equipment for, design of thermal neutron television, 22:35984
equipment for, development of mobile, 22:28033
equipment for, electron linac, 24:33075
equipment for, fabrication of depleted uranium, 23:51020
equipment for, neutron-sensitive camera tube with electron beam scanning, 23:7921(P)
equipment for, performance of electrostatic accelerator, 24:398
equipment for, performance tests for safety evaluation of, 23:50197 (ORO-3610-1)
equipment for, pneumatic systems for displacing gamma source, 24:25166
equipment for, registration of, 23:31795(R) (RPS-AR-1)
equipment for, use of image intensifiers as, 21:24259
equipment for, use of linear accelerator, 23:39859 (CONF-681064-3)
equipment for, use of proton accelerator, 22:28034
equipment for, using cobalt-60 or iridium-192 sources, safety testing of, 24:50534
equipment for, Van de Graaff accelerator, 25:25605
equipment using californium-252 source, development of portable neutron, 24:20948(R) (BNWL-1308-1)
evaluation for nondestructive materials testing of graphite, 21:28178 (LA-DC-8272)
evaluation of neutron, for testing radioisotopic heat sources, 23:31493 (MLM-1617)
evaluation of statistical, for determining effects of defects on weld strength, 25:51735
facilities at University of Texas for neutron, using TRIGA Mark I reactor neutron beam, 24:11753
facilities for neutron, at Sandia Laboratories, review of californium-252 and annular core pulse reactor, 25:54924 (SC-DR-710178)
facilities for neutron, design and uses at EBR-II, 22:4370
facilities for neutron, design of, 24:16805 (CONF-690910-, pp 533-50)
facilities for neutron, operation of EBR-II fuel cycle, 24:5842

facility at Idaho Nuclear Corporation, methods for improving safety of evacuation system of neutron, 24:2680 (IN-1310, pp 38)
facility for, design of, 25:312
facility for, neutron using TRIGA reactor source, design and performance of, 25:51737
film analysis for fuel element, densitometer for automatic, 24:39207 (IN-1317, pp 233-381)
film exposure in, design of photometer for determining rate of, 24:19179 (FOA-2-2307)
film exposure time for gamma and x, formula for calculation of optimum, 25:15862
film for gamma, evaluation of, 21:363
film for highly radioactive fuel element, development of, 24:27304(T) (LA-4366-TR)
film for thermal neutron, Polaroid, 25:23926
film from x-ray, quantitative interpretation of opacity of, 25:51734 (Y-DL-140)
films for neutron, performance of Polaroid Types 52 and 57, 25:57691
films for, exposure plots for x-ray, 25:29294
flaw detection in metals using beta particles, gamma radiation, or x radiation, 22:23776
flaw detectors for, 21:4720
fuel plate homogeneity measurements by, 22:23235 (IN-1131, pp 116-22)
gamma buildup in, analytical method for evaluation of, 25:57681
gamma secondary emission during bremsstrahlung, calculation of, 22:43010
gamma source for, 21:10550
gamma source for defect detection in metals, properties of iridium-192 as, 22:42988
gamma source for, properties of iridium-192, 24:9606
gamma source for, use of iridium-192 as, 24:31613
gamma sources for, 22:36265
gamma sources for, design of high-activity, 25:51713 (ICRU-18)
gamma sources for, of welds, performance of iridium-192, 25:15857
gamma sources for, properties of radioisotope, 24:9616
geometry of x-ray, calculation of optimum focusing, 22:43011
hazards to personnel following accidental exposure, 22:43406
homogeneity scanner for fuel element, design of control system for, 21:36396
image analysis in thermal neutron, 23:7712(T) (NP-tr-1716)
image clarity in, masking fluid for improved, 23:38217(P)
image detection in thermal neutron, thermoluminescent method for, 23:33349
image detection methods for fast neutron, 24:16845
image enhancement in, development of methods for FFTF fuels, 24:31631 (BNWL-1321)
image enhancement using digital computers, 24:33583 (LA-4305)
image intensifier for x-ray, lead oxide screen, 23:21912 (ORNL-TM-2488)
image qualities in, effects of modulation transfer function and noise on, 23:26484 (IFA-M-41)
image quality improvement in, specifications for, 24:31635
image quality in electro-, comparison of x-ray film and radiography test plates for, 24:29472
image quality in gamma, use of optical transfer function for evaluation of, 24:50575
image quality in x-ray, effects of thallium-activated cesium iodide and sodium-iodide converters on, 22:43070
image quality in, effects of emulsion sensitivity and radiation spectra on, 23:33357
image quality in, relation with film density, 23:33358
image recorders for neutron, characteristic curves of induced density vs exposure for film—intensifying screen, 23:14104
image recording process in neutron, analytical model for, 25:4251
image resolution in neutron, collimating systems for improved, 23:33351
image transfer method for neutron, using Toshiba Training Reactor for source, 23:33353
imaging methods for neutron, review of, 23:33342
imaging system for, contrast perception in, 25:8496
information transfer process in betatron bremsstrahlung, statistical analysis of, 25:2412
inspection of aluminum and steel using radioisotope sources, film exposure time charts for, 23:7707 (AAEC/TM-460)
intensifying screens for thermal neutron, resolving power of, 25:352
iridium-192 γ source for, 22:12551
layer method for, of defects in thick steel weldments using Betatrons, 23:33359
masking solutions for gamma and x, 21:3227(P)
method and equipment for neutron, using Triga reactor, 24:5833
method for, 22:4379(P)
method for aluminum using low energy gamma-emitting isotopes, 23:17690 (CEA-CONF-1076)
method for analysis of effects of vapor bubble formation on performance of planar heat pipes, 23:31497
method for Apollo ordnance devices using swimming pool reactor neutron source, 24:29470
method for blast furnace lining wear using cobalt-60, 23:38216
method for coal, 24:29473
method for color film, using x radiation, 25:18612(T) (LIB/Trans-324)
method for dense metal castings, 25:350
method for detecting cracks in light alloy samples, optimization of, 25:54929
method for detection of cracks in turbine-blade leading edge using krypton-85 tracer, 24:11751
method for detection of defects in filament wound glass composite structures, 22:43003
method for detection of defects in metal crystals using alpha particle channeling, 23:48457 (CEA-CONF-1318)
method for detection of defects in metallic castings, 23:9668(P)
method for detection of microdefects in materials using krypton-85 tracer, 25:42029
method for detection of weld defects, 23:13965
method for determination of activation and fission product distribution in fuel elements, 24:5846
method for determination of direction of ground water flow in drill holes, 22:12437
method for determination of void fraction variations in pebble-bed type reactor, nondestructive, 21:5638
method for determining crystal structure of Cr_3Si-type solid solutions, 24:32513
method for fuels and metals, 25:21258
method for gamma, for inspection of steel pressure vessel nozzles, 23:40961
method for gamma, for on-site inspection of piping system weldments, 24:41633
method for glass-reinforced polyester laminates, 25:34839
method for graphite salt impregnation testing in irradiation fields, 22:47675 (ORNL-4254, pp 183-240)
method for high-resolution neutron, of mixed-oxide fuel elements, 25:4254
method for identifying defects in steel castings up to 2 in. thick, standard reference radiographs for use in, 25:57694
method for identifying defects in steel fusion welds, standard reference radiographs for use in, 25:57687
method for in-space fabrication inspection, 22:43000
method for in-space fabrication inspection, 22:43001
method for inspecting aircraft structures using iridium-192 and thulium-170 gamma sources, 25:13180 (JAERI-Memo-4163)
method for inspecting beryllium—curium-244 neutron sources, 25:4253
method for inspecting graphite—gas-cooled reactor fuel element welds, 25:6509
method for inspecting irradiated uranium dioxide fuel elements, x-ray, 22:51194
method for inspecting thick castings and welds, use of betatron in, 25:57678 (INR-1204)
method for inspecting welds in large thermoelectric power plants, gamma, 23:24403 (CONF-670649-19)
method for inspection of irradiated fuel assemblies using 22 MeV betatron, 23:24406 (LA-DC-10050)
method for inspection of opposed-arc welds using thulium-170 gamma source, 24:29455
method for inspection of power cables, 23:43484
method for inspection of pressure vessel nozzle components, 24:395
method for jet engine inspection using iridium-192 gamma source, 25:54927
method for large radioisotope heat source fuel capsules, 22:33602(R) (AI-AEC-12676)
method for measuring neutron scattering in aluminum, steel, and uranium, (E), 22:49042
method for measuring planar heat pipe wick vaporization, 24:36469
method for neutron imaging on cellulose film, 21:36303
method for neutron, development of activation-transfer, 22:30118 (ANL-7438)
method for neutron, development of high-flux neutron beam for improved, 24:5843
method for neutron, for Apollo ordnance objects, 25:51740
method for neutron, to produce visible image, 23:11735(P)
method for neutron, using americium-241—beryllium—curium-242 source, 24:5835
method for neutron, using californium-252, 24:39139(R) (BNWL-1308-2)
method for neutron, using californium-252, development of, 25:34803(R) (BNWL-1308-5)
method for neutron, using electron Linac source, 24:5837
method for neutron, using enriched uranium subcritical assembly beryllium—plutonium-238 source, 24:5836
method for neutron, using low-intensity beams, emulsion failure observations in, 24:5840
method for neutron, using low-voltage accelerator, 24:11752
method for nondestructive materials testing, review of, 22:10527
method for nondestructive testing of fast reactor fuels using epicadmium and thermal neutron beams, 23:38214
method for nondestructive testing of metals, in-motion, 23:38213
method for nondestructive testing of pressure vessels using linear accelerators, 23:45487
method for nondestructive testing of reactor pressure vessel steel, 23:27026
method for pyrocarbon-coated plutonium oxide microspheres, 22:10434 (LA-3814)
method for radioactive materials, 21:12264
method for reliability testing, 22:12558 (N-67-23261)
method for remote gamma, for testing underwater drilling equipment for material defects, 24:48237
method for remote in-core inspection of swimming pool reactor fuel elements, 23:37619(P)
method for small metal tubes, 24:14206
method for sodium-bonded stainless steel-clad carbide fuels, 24:25244
method for spent fast reactor fuel elements, 24:402
method for spent fuel elements using 18-MeV betatron, 25:29291
method for spent fuel elements using 22-MeV betatrons, 24:403
method for steel, sensitivity of scintillation detector for bremsstrahlung, 22:28117
method for studies of fuel element burnup using gamma scanning, 24:16814
method for testing fuel capsules, 24:20947(R) (AI-AEC-12926)
method for testing of closure welds of SNAP-27 Haynes 25 alloy fuel capsules, 24:14215
method for testing power cable, 23:17717
method for thermal neutron, 22:16790
method for thermal neutron, using californium-252, americium-242—beryllium, and americium-242—beryllium—curium-242 sources, 24:5839
method for thick lead specimens using neutrons, 22:21731
method for thin welded joints using beta particles, 25:57700
method for titanium billets using betatrons, 24:14205
method for variable density plates, 22:19083(P)
method for welds on fuel cans, 24:33857(P)
method for, of core displacement in metal castings, 22:19082
method for, use of divergent neutron beam collimator in, 21:41172
method of gamma, for defect determination, 21:249
method of high-resolution neutron, using reactor sources, 21:36304
method of neutron, for nondestructive materials testing, 21:39153
method of, using photometry of gamma radiographs, for inspection of uranium distribution in laminated plate-type fuel elements, 23:9239 (CEA-CONF-1079)
method using color films, 23:6274
method using neutrons for inspection of metals, natural uranium fuel elements, and organic compounds, 23:26489
method using small subcritical reactor, 25:51736
methods and equipment for x-ray scanning of imperfections in chemical munitions, 25:48392 (ORNL-TM-3467)
methods and recommended practices for, ASTM standards for, 22:40332
methods and sources for neutron, development of, 24:25229 (ANL-7417, pp 41-7)
methods and sources for neutron, for nondestructive testing of materials and fuel enrichment distribution control, 25:29292
methods and uses of neutron, review on, 25:18615
methods development for, 21:12607 (ORNL-3970, pp 118-24)
methods development for fuel element evaluation, 21:12607 (ORNL-3970, pp 118-24)
methods for, 22:12560
methods for brazed joints, neutron, 21:41171
methods for color, review on, 25:23749(T) (LIB/Trans-342)
methods for inspection of cast, rivetted, and welded metals, comparison of gamma and x-ray, 24:2406 (IEA-8)
methods for material, gamma and x-ray, 23:24404 (CONF-670649-31)
methods for measuring dynamic conditions inside aircraft gas turbine engines, 25:57689
methods for measuring radioinduced swelling in fuel spheres, 22:19571 (AERE-M-1977)
methods for neutron, 23:538
methods for neutron, advantages of epicadmium neutron beams in, 22:49045
methods for nondestructive testing, 21:36301 (Y-DA-1790)
methods for testing HFIR fuel elements, 25:2770 (ORNL-4570, pp 127-35)
methods for thin specimens, 22:8741 (ORNL-4170, pp 119-23)
methods for welds, 21:34882 (EURAEC-1859)
methods for welds of thick plates, review of, 22:40342
methods for, review of, 23:38219
methods for, use of ytterbium-169 in, 22:253 (ORNL-IIC-10(Vol.2), pp 648-62)
methods of x ray, for testing reliability of electronic equipment, 24:4501
methods of, using neutrons, 22:4373
methods using betatrons, development of, 22:32376
methods using californium-252 neutron source for, 23:31481 (CONF-681032-, pp 303-19)
methods using iridium-192 and neutrons, 23:26485 (KURRI-TR-30)
monitoring area of products in gamma, determination of optimum, 23:6273
neutron generator for, design of d—T, 23:33362
neutron generator for, development of 14-MeV sealed-tube, 25:45887
neutron imaging methods in, review of progress in, 22:40333
neutron source evaluation for, 25:32489
neutron source for aircraft materials, performance of californium-252, 25:48760 (CONF-710402-(Vol.3), pp IV.55-68)
neutron source for, development of californium-252, 24:7604
neutron source for, development of pulsed pool-type reactor, 25:48763 (CONF-710402-(Vol.3), pp IV.86-93)
neutron source for, evaluation of californium-252, 25:15849
neutron source for, evaluation of californium-252, 25:4218
neutron source for, evaluation of californium-252, 25:6475
neutron source for, evaluation of californium-252, 25:6473
neutron source for, evaluation of californium-252, 25:15850
neutron source for, evaluation of californium-252, 25:6474
neutron source for, performance of small accelerators as thermal, 24:5844
neutron source for, properties and shielding of californium-252, 24:9595(R) (BNWL-1256)
neutron source for, properties of californium-252 for use as portable, 24:5838

- neutron source for, properties of californium-252 as, 23:17706
- neutron source for, properties of californium-252 as, 23:50060
- neutron source for, use of low-voltage accelerator as, 24:14223
- neutron sources for, economics of small uranium subcritical assemblies with radioisotopic neutron sources as, 25:39667
- neutron sources for, evaluation of, 24:46449
- neutron sources for, evaluation of radioisotope, 25:44561
- neutron sources for, fabrication and testing of californium-252, 25:50600 (CONF-710402-(Vol.2), pp I.72-83)
- neutron sources for, future demand for californium-252 as, 24:11741
- neutron sources for, moderator arrangements in, 24:10893 (DR/SAR-G-67-45)
- neutron sources for, optimization of antimony—beryllium, 22:26770
- neutron sources for, performance of californium-252, 25:13161 (BNWL-SA-3169)
- neutron sources for, technical and economic evaluation of thermal, 23:28214 (TID-25050)
- parameters for scintillation, 25:46624
- penetrameter design for, using cesium-137 and cobalt-60, 21:34425
- performance of beta, for welded joints, 23:26487
- performance of multielement neutron, effects of converter screen, energy spectrum, and film type on, 25:48761 (CONF-710402-(Vol.3), pp IV.69-77)
- performance of neutron, 23:38206(T) (AERE-Trans-1111)
- performance of neutron radiography, 25:48757(T) (AERE-Trans-1120)
- performance of neutron, for irradiated fuels, 24:16805 (CONF-690910-, pp 533-50)
- performance of neutron, for measuring dimensions of cylinders, 24:31636
- performance of neutron, in determining fuel enrichment, 23:43474 (CONF-680506-, pp 141-8)
- performance of neutron, in examination of irradiated SNAP-8 fuels, 24:16806 (CONF-690910-, pp 540-50)
- performance of neutron, in heat pipe diagnostics, 22:4375
- performance of Plutonium Recycle Test Reactor for, 24:36525 (BNWL-1373)
- personnel for neutron, reports of two overexposures of, 23:43137
- personnel protection against x-ray hazards in, basic criteria for, 24:29757
- personnel protection during, methods and warning systems for, 24:31632
- personnel protection in γ, 24:34357
- phosphors for imaging in neutron, properties of, 23:29110
- photographic film with light-emitting intensifying screens for low-intensity neutron, sensitivity of, 23:38211
- photographic films for, of reactor fuel elements, 23:11921
- photonuclear reactions for, 22:12559
- processing of Ektachrome film for color, in nondestructive testing in industry, 21:12612
- protection of personnel in, calculation of shielding efficiency for, 23:43791
- quality control in gamma, efficiency evaluation of method for, 25:57696
- quality control methods for neutron, of fuel irradiation capsules, 25:6889 (BMI-1886, Sect. B)
- radiation exposure from, hazards of x, 22:49335
- radiation monitoring of, equipment for γ, 22:45578
- radiation protection code for, 25:42490
- radiation protection manual for, ILO, 25:42461
- radiation protection of personnel during, γ, 22:45581
- radiation protection of personnel during, γ, 22:45576
- radiation protection standards for personnel in, in France, 22:36265
- radiation safety in γ, review of, 21:17800
- radiation safety in x-ray, review of, 21:17800
- radiation source for, design of, 24:401(P)
- radiation source for, evaluation of ytterbium-169 as, 25:48745
- radiation source position in, device for determining exact, 25:18567(P)
- radiation sources for use in, capsule testing of, 21:26067 (ORNL-4092)
- radiation sources for use in, safety testing of, 21:39148
- radiation sources for, characteristics of sealed, 23:11727
- radiation sources for, development of, 23:43480
- radioisotope applications in, in Soviet Union, 21:6316(T) (AEC-tr-6466/2)
- radioisotope sources for gamma, method for determining optimum life of, 25:57697
- radioisotope uses in, conference on, 22:28011 (CONF-660503)
- radioisotopes for, evaluation of low energy, 23:9657
- radioisotopes in, 22:37934(T) (AEC-tr-6933)
- research at CENG, fast neutron, 22:51222 (TID-24730)
- research progress on metallographic, 21:34853 (ORNL-TM-1733)
- response functions and line spread functions in γ ray, 22:49150
- review of Spanish developments in, 22:14741
- review of techniques in, 22:2315
- screens for high energy, evaluation of metal intensifying, 25:57690
- selenium plates for, gamma sensitivity of, 23:11736
- sensitivity for nondestructive inspection using iridium-192, 22:12560
- sensitivity of x-ray image brightness intensifiers for, 22:43173
- shielding for, design of coiled wire, 23:26415(P)
- source transport for, design of equipment for, 23:50085
- source-collimator geometry optimization for neutron, using californium-252 source, 25:48759 (CONF-710402-(Vol.3), pp IV.47-54)
- sources for, performance of particle and radiation, 23:50068
- standard for controlling quality of, 25:57682
- standard for inspection of steel castings for flanges, pipe fittings, and valves, 25:32153
- standard reference radiographs for heavy-walled steel castings, 25:57684
- standard reference radiographs for steel welds, 25:57683
- standards for aluminium and steel weld inspection in Japan, 23:13966
- standards for gamma, description of Korean, 23:24378 (AERI-21)
- statistical methods for radioisotope scanning, 21:1660
- techniques of flash x-ray, of exploding systems, 21:41168 (UCRL-70178)
- techniques using photonuclear reactions for, 22:12559
- television imaging system for neutron, of radioactive fuel capsules, 21:6349
- television imaging system for thermal-neutron, 22:4540
- transfer method for neutron, sensitivity of, 23:21913
- underwater neutron, with conical collimator, 21:8633
- use for determination of radiation damage in fast breeder reactor fuel elements, 22:53273(T) (EURFNR-472)
- use for determination of radiation damage in fast breeder reactor fuel elements, 22:32778 (KFK-700(Pt. XII))
- use for determining transient radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2) axial restrained fuel elements, 22:32970(R) (GEAP-5584)
- use in investigations of naturally occurring minerals, 22:2203
- use in nondestructive materials testing method, 22:4379(P)
- use in nondestructive testing of honeycomb heat shields, 22:271 (N-67-19360)
- use in testing of ship hull welds, guide for, 22:19077 (AD-639053)
- use of β backscattering for hardness measurements, 22:12561(P)
- use of color, 21:12612
- use of iridium-192 as gamma source in, 23:7694 (KURRI-TR-31)
- use of neutron, comparison with gamma and x-ray radiography, 23:9669
- use of neutron, for nondestructive testing at AEG Nuclear Energy Experimental Center, Grosswelzheim, 25:37553
- use of neutron, for nondestructive testing, review of, 24:396
- use of neutron, in non-destructive examination of aerospace hardware, 22:38125
- use of tangential, for measurement of wall thickness and individual thicknesses in multilayered structures, 22:385 (Y-DA-1583)
- uses in corrosion prevention research, 25:22016
- uses of fast-neutron, 22:4372
- uses of high-resolution, 22:4373
- uses of low-voltage and neutron, for boron cermets, 22:4374
- uses of neutron, 22:4369
- uses of neutron, 23:2534 (ORNL-IIC-16)
- uses of neutron, for nondestructive testing, 22:4376
- uses of neutron, in research on nuclear fuels, 22:4315
- weld radiographs for, problems in interpretation of, 25:48771
- x-ray equipment for, design of shielding for, 24:29949
- x-ray film and slitted lead foil for gamma, line-image intensity distribution for, 24:16862
- x-ray film with lead intensifying screen for, measurement of spatial frequency response of, 23:21914
- x-ray generator peak voltage measurements for, 23:857
- x-ray scatter method for reactor materials, development of, 24:25229 (ANL-7417, pp 41-7)

RADIOIMMUNOASSAY
- book: Radioisotopes in Medicine: In Vitro Studies, 23:11943 (CONF-671111)
- calculation of results of, methods for linearization of dose-response curves for, 24:2534
- comparison of iodine-125, to bioassay of rat growth hormone, 24:12021
- comparison of iodine-125- and iodine-131-labeled luteinizing hormone for, 23:29405
- conference on, abstracts of, 24:34383
- development of solid-phase, for staphylococcal α-toxin, 23:41271
- equipment for sequential sample analysis, filtration, 24:46551(P)
- evaluation for estimating potency of gonadotropins in comparison to bioassay, 24:29694
- evaluation for specificity in LH determination in bovine blood, 24:21052
- luteinizing hormone, in castrated rats, 23:35585
- method for angiotensin I, in human plasma as assay for plasma renin activity, 25:42238
- method for antibodies to virus antigens, 25:57912
- method for Australia antigen, double-antibody, 25:42308
- method for bradykinin in plasma and synovial fluid, 24:2535
- method for determination of antigens of cultured human leukemia cells, 23:45162 (NYO-2651-21)
- method for determination of β 1C globulin from man, solid phase, 24:21056
- method for determination of human growth hormone in plasma and serum of man, 23:50256
- method for direct solid phase, for measurement of antibody to macroglobulin antigen, 25:44753
- method for growth hormone in dog plasma, 25:57909
- method for hormones using dioxan and iodine-131, 23:7966
- method for human chorionic gonadotropin and luteinizing hormone, use of insoluble antibodies in, 24:29681
- method for human enzyme systems, 25:49074
- method for human follicle-stimulating hormone using human chorionic gonadotropin to adsorb nonspecific antibodies, 24:7710
- method for human FSH, evaluation of, 24:29682
- method for human growth hormone using solid-phase antibodies, 22:40757
- method for LH in serum of mammals, species specificity of, 24:29684
- method for luteinizing hormone in sheep using solid-phase antibodies, 23:35592
- method for luteinizing hormone, in serum of monkeys, 25:42237
- method for luteinizing hormone, of cattle, rats, and sheep, evaluation of solid-phase, 24:29686
- method for measurement of epinephrine and norepinephrine content in blood plasma, double isotope, 25:57914
- method for measurement of plasma aldosterone in rabbits, 25:21536
- method for measuring content of plasma renin by quantitation of angiotensin I, 25:18920
- method for measuring frequency of antibody to hepatitis-associated antigen using iodine-125, 25:42306
- method for quantitative determination of high molecular weight antigens, 24:23067
- method for serum hormone levels in man using polypropylene discs, solid phase, 24:19284
- method for serum vitamin B12 in man using cobalt-57-labeled vitamin, 24:7709
- method for solid-phase antibody, of FSH in human urine, 24:29680
- method for thyrotropin in human blood serum and pituitary homogenates, 24:7705
- methods and uses of, bibliographic review of, 25:35083
- methods computer calculations for data analysis for measurement of hormone content in human blood serum using, 24:29675
- methods for AMP in tissue extracts, 24:50794
- methods for angiotensin II, comparison of, 24:5977
- methods for antibodies and antigens using immunosorbents, 24:34010
- methods for antivasopressin antibody in rabbits, iodine-131, 23:38390
- methods for cholecystokinin or pancreozymin in human blood serum, 24:12018
- methods for circulating carcinoembryonic antigens, 24:48360
- methods for detection of antibodies formed during anamnestic response initiated in vitro, 23:38495
- methods for detection of antibodies to myelin proteins in serum from guinea pigs following induction of allergic encephalomyelitis, 23:35802
- methods for determination of abnormal growth hormone secretion in man, 23:11950 (CONF-671111-, pp 145-63)
- methods for determination of follicle-stimulating hormone in human tissues, 23:45616
- methods for determination of hapten-specific antibody titer in rabbits following weak antigenic stimulation, iodine-125, 23:38395
- methods for determination of insulin in human tissues, 23:45616
- methods for determination of insulin, in vitro, 24:50976
- methods for determination of lactogen in human placental tissues, 24:9794
- methods for determination of luteinizing hormone and progesterone content of serum in monkeys during menstrual cycle, 24:14386
- methods for determination of parathyroid hormone in guinea pigs and rabbits, 24:50668
- methods for determination of polypeptide and protein hormones, conference on, 24:44394
- methods for determination of secretin in human serum, 23:33662
- methods for determination of thyroxine content of blood serum, 23:50241
- methods for determining carbonic anhydrases in crude lysates, 24:50662
- methods for determining content of hormones in human plasma, review of principles and procedures for, 24:25358
- methods for determining content of luteinizing hormone in human plasma, 23:9858
- methods for determining oxytocin in human plasma, 24:50663
- methods for determining parathyroid hormone, methods for determining chromatoelectrophoresis peaks following in vitro, 23:45614
- methods for determining prolactin in cattle blood, 24:50665
- methods for determining role of glucagon in glucose metabolism, 23:11949 (CONF-671111-, pp 129-43)
- methods for differential diagnosis of disease in man, growth hormone, 24:48364
- methods for estradiol, comparison of solid-phase, with assay by double-isotope technique, 23:41260
- methods for follicle stimulating hormones, in comparison to bioassay methods, 24:50664
- methods for follicle-stimulating hormone and luteinizing hormone using chromatoelectrophoretic separation, 24:34009
- methods for follicle-stimulating hormone in preparations of human chorionic gonadropin, 24:7704
- methods for FSH and LH in human blood serum following surgical hypophysectomy, 24:25349
- methods for gastrin in dog or human blood serum, 24:48362
- methods for gastrin in human serum using double antibody technique, 24:34150
- methods for gastrin, in human blood serum, 24:12019
- methods for gonadotropins, assessment of accuracy, sensitivity, and specificity of, 24:34008
- methods for gonadotropins, conference on, 24:34003
- methods for growth hormone in human plasma, use of iodine-125 for, 24:645
- methods for human chorionic gonadotropin, 24:5975
- methods for human growth hormone using carrier-free iodine-125-labeled antigen, 24:44398
- methods for human plasma thyrotropin in relation to thyroid function and disease, 24:44397

methods for identification of immune globulins in fluids from inflamed synovial tissues in rabbits, 23:38394
methods for insulin, quantitative aspects of, 24:7703
methods for luteinizing hormone, in rats, factors affecting, 24:29685
methods for luteinizing hormone, use of cross reactions of follicle stimulating hormone with antisera in, 24:50666
methods for measurement of angiotensin and rennin content of plasma, 23:38493
methods for measurement of angiotensin content of human blood plasma for estimation of renin content of plasma, 24:29674
methods for measurement of bacteriophage content of tissues, 24:29666
methods for measurement of content of luteinizing hormone in blood of sheep before ovulation, 23:38402
methods for measurement of content of luteinizing hormone in blood, 23:50242
methods for measurement of content of triiodothyronine of human blood serum using, 24:29648
methods for measurement of glucagon content in serum and tissue culture media using iodine-125, 23:38492
methods for measurement of hormone content of blood serum, 24:29666
methods for measurement of hormone content of human blood serum, 24:29663
methods for measurement of hormone content of human blood serum, 24:29664
methods for measurement of insulin content of human blood serum, 24:29665
methods for measurement of insulin content of human blood serum, 24:29667
methods for measurement of peptide hormone content of human blood serum, 24:29673
methods for measurement of protein hormones and enzymes, 24:622
methods for measurement of release of hemoglobin from erythrocytes damaged by antibody and complement, 23:50261
methods for measurement of thyrotropic hormone content of human blood serum, 24:29670
methods for measurement of triiodothyronine content of human blood serum, 24:29669
methods for measurements of content of antibodies in culture media following incubation of primed spleen cells and antigen, 23:29412
methods for measurements of content of antibodies in culture media following incubation in primed spleen cells and antigen, 23:29414
methods for measurements of growth hormone content of body fluids, 23:38494
methods for measurements of nanogram quantities of proteins in blood, 23:33592
methods for measuring human serum luteinizing hormone, human growth hormone, and human follicle-stimulating hormone, effects of EDTA and human serum on double-antibody, 23:38399
methods for morphine based on coupling of hapten morphine to protein at phenolic group, 24:29677
methods for parathyroid hormone in human blood plasma, 24:50667
methods for peptide hormones in blood plasma, 23:11944 (CONF-671111-, pp 7-41)
methods for peptide hormones using labeled antibody, 24:44396
methods for peptide hormones, review of, 24:44395
methods for plasma ACTH using double antibody and extraction techniques, 24:44399
methods for prolactin, in rat serum, 23:50253
methods for studies of allergy and immunology, 25:10924
methods for study of insulin biosynthesis in vitro, 23:11948 (CONF-671111-, pp 115-28)
methods of solid-phase, 21:26371
methods using double antibody system for measurement of content of peptide hormones lacking tyrosine in blood serum, 24:29628
methods using double antibody technique, 24:34012
practical aspects of, 23:11944 (CONF-671111-, pp 7-41)
preparations for use in, development of, 23:26704 (CEA-CONF-1105)
principles involved in, review of, 24:31786
radiation dose interpolation for, use of computer calculations for, 25:42236
reaction interference from chorionic somatomammotropine hormone and thyrotropic hormone from man in, 23:33588
response curves for, equations for describing, 23:11946 (CONF-671111-, pp 59-100)
sensitivity of iodine-125, for bovine serum albumins and anti-bovine serum albumin antibodies, 23:29304
sensitivity of iodine-125-labeled thyrotropin, effects of purification on, 24:14436
standards and reference reagents for, 24:29676
standards for follicle stimulating and luteinizing hormones, 24:29693
standards for FSH and LH, 24:29693
theoretical aspects of, 23:11944 (CONF-671111-, pp 7-41)
use for determination of growth hormone in pituitary and plasma of rats, 23:35588
use for determination of luteinizing hormone in blood serum of post-partum rats, 23:35584
use for determination of luteinizing hormone in sheep following injection of LH-releasing factor, 23:35587
use for determining hormones in blood, 23:16354
use for determining insulin content of urine, 23:35671
use for measurement of ACTH in plasma of patients with carcinomas, 23:50245
use for measurement of insulin in human children with morning hunger, iodine-131, 24:4543
use for measurement of plasma insulin levels during arginine infusion tests in human patients with hyperthyroidism, 23:38689
use for measuring release of growth hormone in human plasma, 23:41259
use for microanalysis of proteins in diagnosis of endocrine disease, 24:4577
use for monitoring of plasma luteinizing hormone in rats following hypothalamic extract injection, 23:33586
use of cellulose-bound antibodies for, application to straphylococcal α-toxin, 23:31670
use of coated charcoal for, of plasma insulin, 23:33583 (AD-684175)
use of iodine-125 for, of human plasmin and plasminogen, 23:41194
use to determine content of luteinizing hormone in blood serum of cattle and sheep, 23:31680
use to determine insulin secretion by sheep fetuses in utero, 23:31678
use to determine vasopressin secretion in rats, 23:31679
use to measure calcium content of blood in relation to parathyroid function in man, 23:26835
use to measure secretion of chorionic thyrotropin in man during pregnancy, 23:26834
uses of, review of, 24:27488

Radioisotope Applicators
see Radioapplicators

RADIOISOTOPE SCANNERS
anatomical markers for, design of device for providing, 23:11809
averaging devices for, description of, 22:49070(T) (JPRS-46486)
book: Advances in Dynamic Radioactive Scanning, 23:50657
book: Clinical Scintillation Scanning, 23:50725
book: Instrumentation in Nuclear Medicine, 22:45299
book: Medical Radiation Physics, 25:16275
book: Phosphorus Isotopes in Oncological Diagnosis, 23:50712
calibration for quantitative measurements, 25:39705 (ORO-2401-32)
circuit for spectrometer for, preregulation of high voltage supply, 25:34888(P)
collimator characteristics for, 24:19216
collimator for scintillation, optimum design of, 22:6589
collimator for, design and performance of multi-slit, 23:33451
collimator for, design of constant-resolution, 23:33431
collimator performance for scintillation, line spread function measurements for determining, 22:33840
collimator performance in, for cardiac scanning, 23:18070
collimators for coincidence, design of, 23:19948
collimators for scintillation, design of multichannel focused, 23:33430
collimators for scintillation, line spread functions for, 23:33438
collimators for scintillation, performance of, 23:33436
collimators for scintillation, performance of honeycomb, 23:33448
collimators for thallium-activated sodium iodide, method for testing focused, 22:21553
collimators for use with low-energy radioisotopes, 25:57891
collimators for, computer program for evaluation of, 24:33908
collimators for, design and efficiency of, 23:21974
collimators for, design optimization of, (T), 25:34880
collimators for, performance of, 23:33437
collimators for, response function measurements and modulation transfer calculations for, 23:33439
collimators for, response of double-head and single-head, 22:25854
collimators for, variable focus, 24:31693
conference on, 23:33388 (STI/PUB-193(Vol.1))
coupling of rectilinear, to analog computers, 21:28314
data acquisition and processing system for dual head rectilinear, off-line computer, 24:39223 (PRNC-135, pp 158-62)
data acquisition and storage systems for, digital, 25:39706 (ORO-2401-37)
data acquisition system for cerebral angiography, multichannel analyzer, 25:32245
data acquisition system for, design and performance of digital, 24:4515
data acquisition system for, off-line computer interface for, 25:34881
data acquisition, processing, and display systems for, computer-based, 24:31703
data analysis and display system for, use of on-line computer, 24:25341
data analysis for quantitative radioisotope determination, 24:31705
data analysis for quantitative scintillation, gamma spectra, 23:33428
data analysis system for, closed-circuit TV, 23:33427
data averaging by photographic and dimensional computer techniques, 23:33420
data collection and analysis system for scintillation, for lung scanning, 23:19952
data display and image perception in photographic, 23:33421
data display and interpretation system for, 24:25285
data display equipment for, design of color, 24:41682(P)
data display system for, 25:19053
data display system for rectilinear, design of real-time isoactivity plotter, 24:36669
data display system for scintigraphic, 24:29602
data display system for scintillation, multicolored, 25:18653(P)
data display system for, computer-based three-dimensional oscilloscope, 24:39307
data display system for, development of color, 24:33899
data display system for, improved ratemeter design for color, 25:398
data display system for, statistically designed color ribbon, 24:39228
data display systems for, performance of, 23:33443
data from scintillation, use of digital computers for conditioning, 23:17753
data from scintillation, use of digital computers for analysis of, 23:17754
data from, computer analysis of, 23:16083(R) (COO-1472-23)
data from, digital computer analysis and display of, 23:16082 (COO-1472-22)
data from, use of digital computers for storage and retrieval of, 23:17828
data from, use of high-speed digital computer for contrast enhancement and quantitation of, 23:17827
data handling system for pulmonary function studies, 25:4328
data processing and display for, digital method for, 23:33424
data processing and display system for hybrid positron, computer-based, 23:33417
data processing and display system for scintillation, design of, 23:38256(P)
data processing and display system for, PDP-7 computer-based, 25:32239
data processing and recording systems for use with, development of, 24:758(R) (NYO-910-123)
data processing for detection of brain abnormalities, computer algorithms for, 25:24230
data processing for, optimal, 25:17257 (NIRS-9, pp 1-14)
data processing system for scintillation, computer-based, 24:9664
data processing system for, computer-based, 24:39278
data processing system for, computer-based digital, 23:33418
data processing system for, on-line computer, 24:19196 (CTC-26)
data processing systems for, 24:31757
data processing systems for image enhancement in, matched and optimum filters for, 25:4359
data processing systems for, development of computer-based, 25:4336
data processor for, digital, 23:33425
data recording and display system for, 24:16843
data recording system for design of, 23:45521(P)
data recording system for medical, design of digital, 22:40381
data recording system for multi-radioisotope, tape recording adjunct for, 25:32236
data recording system for scintillation, development of Polaroid film, 23:38271
data recording system for scintillation, off-line digital computer interface for, 22:47436
data recording system for, cathode-ray tube with color-coded photographic, 23:33441
data recording system for, design of, 22:402
data recording system for, digital ratemeter for, 24:50570
data storage and display system for, performance of, 23:33423
data storage and retrieval systems for, 24:50574
data storage for, fm analog magnetic tape system for digital, 23:35559
data storage system for, magnetic sheet, 23:33422
data storage, processing, and display system for, 23:33426
data system for, CDS-4096, 25:37605
data unfolding for low-level one-dimensional, regularization method for, 24:27328 (ANL-7615, pp 87-95)
data unfolding for low-level two-dimensional, regularization method for, 24:27329 (ANL-7615, pp 95-7)
description of, 23:45518
description of automatic neutron flux, 21:30698 (RT/ING-(66)25)
description of bone, for determining mineral content of femur, humerus, and os calcis, 22:306 (COO-1422-10)
description of Mark III, for multiple-view and section scanning of the brain, 24:46482
description of multichannel scintillation, with channel energy and width adjustment, 24:39273(P)
description of scintillation detector, for whole-body counting, 24:31687
description of, for isotope localization in man, 22:40433
description of, using two detectors from different directions, 24:39271(P)
design, 21:6546
design, 22:23362(P)
design and development of scintillation, 24:19222
design and efficiency of, for disease diagnosis in human organs, review of progress in, 24:6075
design and operation of automatic multicrystal sodium iodide scintillation, 21:22141
design and operation of multiplane tomographic, 23:21943 (UCRL-18705)
design and operation of semiconductor detector matrix, 23:21973
design and performance of computer-controlled, 22:4424 (CONF-671027-2)
design and performance of double scintillation detector, for isosensitive and lamino scanning, 23:14018
design and performance of dual scintillation detector, for quantitative uptake and organ volume studies, 23:33449
design and performance of Dynapix 10-channel scintillation, 24:33897
design and performance of multiplane tomographic gamma, 23:33452
design and performance of orthogonal mechanical, for determining mass spectrum of fission particles in nuclear emulsions and solid detectors, 21:39193(T) (ANL-Trans-509)
design and performance of scintillation, for measuring distribution of weak beta activity in planar surface, 23:19968
design and performance of spark chamber, 23:9820
design and performance of whole-body, 24:31695
design and testing of scintillation, 21:16201
design for determining radioisotope distribution in human organs, 22:30841(P)
design for nuclear medicine, 23:7920

design for use in presence of high background activity from blood, 21:24489
design for use with technetium-99, 21:4816
design improvements in linear, 23:35464 (ORAU-107, pp 254-7)
design modification of Picker Magnascanner to eliminate scalloping, 23:9817
design modifications for improved color scanning, 24:27340 (CONF-690540-, pp 432-8)
design of dual-probe, for use in scanning thyroid gland, 24:2730
design of flying spot, for improved image manipulation, 23:2740(R) (COO-78-174)
design of hybrid positron, 24:36594
design of ionization detector, 25:21413
design of laser-powered optical image diffraction device for, 23:2740(R) (COO-78-174)
design of linear, 22:6566
design of linear scintillation, 22:6566
design of linear scintillation, for small animals, 22:40377
design of multidetector positron, 22:30829
design of multifunction digital, 23:33453
design of nine-detector-pair, for visualization of positron-emitting radioisotopes in man, 24:29795
design of scintillation, 23:29152(P)
design of scintillation, consisting of linear array of detectors, 23:35479(P)
design of scintillation, for area, isosensitive, lamino-, positron, and double-tracer, 22:43046
design of scintillation, for higher efficiency in diagnosis of tumors in human organs, 23:26838
design of scintillation, for producing tomographic series of pictures, 23:2576
design of scintillation, for profile, zone, and whole-body scanning, 23:29166(P)
design of simultaneous x and γ radiation, 22:49083(P)
design of single- and double-headed detector, 23:38263
design of single- and double-headed detector, 23:38262
design of spark chamber, 24:36587(P)
design of spiral, for improved scanning resolution, 23:2740(R) (COO-78-174)
design of tomographic, 25:57754(P)
design of tomographic, with simultaneous readout of several planes, 24:19219(P)
design of two-dimensional whole-body, 23:50110 (BNWL-1051(Pt.2), pp 207-12)
design of whole-body scintillation, with live-time and half-life control, 21:45338 (BNWL-481-4, pp 12-16)
design of whole-body, counters for use in, 21:45707
design of whole-body, for dogs, 24:25364 (BNWL-1221, pp 1.1-47)
design of x-ray fluorescent, with gamma source and semiconductor detector for thyroid scanning, 23:33446
design of, basic concepts of, 24:48266
design of, theoretical study for optimum, 23:33442
design of, with data processing and storage means, 23:24443(P)
design using six thin crystal, mosaic, thallium-activated sodium iodide detectors, 23:612 (KFKI-27/1968)
design with adjustable collimators, for whole-body counting, 25:51878(P)
design with at least three pairs of coaxially-opposed scintillation detectors, 23:16130(P)
design with coincidence circuits for brain scanning using positron-emitting radioisotopes, 25:551
design with visual readout, 25:34885(P)
design, operation, and performance of, 25:4325
development and potentials of, 23:50728
development and use of dual-channel, for simultaneous imaging of two radioisotopes by color readout, 23:33450
development and uses of, review on state-of-the-art, 23:16106
development at CRNL during April to June 1969, 24:41876 (AECL-3430, pp 33-44)
development for dual isotope scintigraphy, using digital subtraction technique, 25:42059
development for gastrointestinal tract and pancreas using gold-198 and selenium-175 colloids, 25:11212
development for nuclear medicine, survey of, 23:7765
development for use in diagnosis of human brain diseases, review of, 23:18071
development for use in nuclear medicine, 25:52129 (A/CONF.49/P-629)
development in Hungary for diagnosis, 23:41030
development of, 25:4337
development of, 25:32244
development of computer data analysis system for use with hybrid, 25:8711(R) (NYO-3937-2)
development of computer-assisted, for parathyroid scanning, 23:33470
development of high-speed section, 22:25860 (UCLA-12-668, pp 29-36)
development of human body mass segment, progress in, 25:39891
development of positron, 23:50132
development of positron scintillation, 23:33455
development of scintillation, 22:25711 (COO-78-163, pp 1-38)
development of scintillation, review of, 23:9727
development of self-triggered wire spark chambers as, 25:57784
development of spark chamber, 24:33900
development of split crystal γ camera for, in kidneys, 21:43478
development of time-of-flight scintillation, 24:31676 (ANL-7489, pp 1-12)
development of universal scintillation, for area isosensitive, lamino-, positron, and double-tracer scanning, 23:2625
development of, conference on, 25:32488
development of, review of, 23:50160
development of, review of, 23:50159
development of, review on, 25:51847 (A/CONF.49/P-507)
development of, status of, 25:8500
development with coincidence detectors for function measurements using gamma cascade isotopes, 25:26465
development, historical review of, 24:29794
display for photo-, instrument for producing color, 22:12667 (ACRH-1000-33)
drive mechanism control for live-time, 24:5894
efficiency of collimators for, evaluation of, using isodose scanner, 21:6567
efficiency of whole-body, method for eliminating reduced counting, 23:50109 (BNWL-1051(Pt.2), pp 205-6)
errors in, equation for correction of, 23:29180
evaluation of Argonne Cancer Research Hospital brain, for improved detection of intracranial disease with better resolution, clinical, 23:35784 (ACRH-31, pp 1-11)
films for, evaluation of Polaroid, 24:14534
geometrical optimization for whole-body counting, 25:23817
image display system for, development of double, 24:16850
image distortion in, matrix inversion method for correcting collimator, 24:50569
image enhancement for, development of computer system for, 25:32235
image enhancement in, use of modulation transfer function for, 25:18650
image enhancement of scintillation, operational rate meter for, 24:31701
image errors, calculation of,, 25:21415
image formation by cross-time correlation of signals from unfocused collimating channels, 23:33461
image formation characteristics of collimated, for gamma sources, 23:664
image intensifier tube for γ, 24:41684(P)
image processing for, optical spatial filtering equipment and methods of, 23:38239 (ACRH-1000-130)
image properties of, 25:23779
image restoration and display for, methods for, 25:32240
image restoration in imaging systems of, 22:4538
images from, contrast perception in, 25:8496
instrumentation and techniques for, recent advances in, 24:9796 (CONF-690303)
modification of commercially-available, for multi-isotope scanning, 21:36439
modification of profile, for clinical whole-body counting, 24:39419 (NIRS-8, pp 53-61)
modulation transfer function for, algorithm for, 25:51866
modulation transfer function of, evaluation of, 25:2447
modulation transfer system for expressing resolution of, 21:18106
operating parameters of ratemeter controlled, with color display, 25:8494
operation of basic principles of, 24:48267
performance evaluation of, using information theory, 23:33444
performance for brain scanning with technetium-99m, 25:26852
performance for characterization of intracranial lesions, clinical significance of improved resolution on, 23:35784 (ACRH-31, pp 1-11)
performance for detection of carbon-14-labeled compounds, 25:57752
performance for determination of radioactivity in Swiss population, 22:21500
performance for diagnosis of dyscrasias of protein metabolism in human children following injection of iodine-131-labeled albumin, whole-body, 22:33839 (UCLA-12-640, pp 1-30)
performance for diagnosis of polycythemia in man, 22:33866
performance for human brain scanning, 25:24259
performance for measurement of erythrocyte survival time in man, 22:33894
performance for measurement of whole-body radioisotope content of dogs, americium-241, plutonium-238, plutonium-239, and plutonium-240, 24:25477 (BNWL-1221, pp 7.1-25)
performance for perfusion-ventilation studies in human lungs using xenon-133, 25:4668
performance for radiodiagnosis, 23:33433
performance for scanning brain tumors, high speed sectioning, 23:47739 (UCLA-12-724, pp 35-42)
performance in combination with digital computer for multiple viewing and sectional scanning of brain, 25:8727
performance in medical diagnosis in comparison with Anger gamma camera, 23:45825
performance of, 25:4326
performance of ACRH brain, collimator effects on, 23:604 (ACRH-1000-68)
performance of dual-headed, with inferior probe for demonstration of pulmonary radioactivity displacement by enlarged heart and free fluids, 25:13484
performance of Dynapix rapid rectilinear, 23:33454
performance of gamma camera and rectilinear scanner, 21:43475
performance of high quantum, for section scanning of brain with metastable technetium-99-labeled pertechnetate, 24:39530(R) (UCLA-34-P-119-25)
performance of high-quantum, for localization of brain lesions, 24:27626(R) (UCLA-34-P-119-23)
performance of high-resolution rectilinear, for human brain scanning, 25:32479
performance of lithium-drifted germanium, 25:39701 (CONF-710204-3)
performance of multiplane tomographic, for detection of lesions in human brain, kidneys, liver, lungs, and pancreas, 25:24257
performance of rectilinear, for human brain scanning, 24:29800
performance of rectilinear, for metastable technetium-99-labeled iron hydroxide macroaggregate scanning of blood perfusion in lungs, 25:42579
performance of rectilinear, in comparison to scintillation cameras, 22:38055
performance of rectilinear, technetium-99m brain scanning, comparison of Anger camera with, 24:44566
performance of scintillation, in comparison to gamma cameras, 22:38056
performance of twin-scintillation detector, for contour scanning of human brain, 24:29799
performance of two opposed detectors for, of iodine-131 in thyroid gland of unrestrained rats, 22:33857
performance of x-ray fluorescent, for radiodiagnosis of liver and thyroid of man, 23:16105
performance of, 3-dimensional phantom for testing, 23:33434
performance of, mathematical theory for evaluating, 23:605 (ACRH-1000-72)
performance of, modulation transfer function for evaluating, 25:32242
performance of, review of, 23:50739
performance of, review of, 25:29349
performance of, simulation method for parameters for determining, 24:16868
performance of, using plane source distributions, 25:399
positron camera designed for, 21:1768
properties of 3- and 5-inch scintillation detector, 25:23798
pulse averaging devices for, characteristics of, 23:33445
pulse-height windows for spectrometry of gallium-67 in, determination of optimum, 25:23773 (ORNL-TM-3260)
readout system for, analysis of digitally processed color, 24:39257
recording system for gamma scintillation, analog magnetic tape, 23:9714
recording system for scintillation, color scintigram, 23:19953(P)
recording system for, design of, 23:661(P)
resolution and sensitivity of, 23:33440
resolution and sensitivity of, test patterns for determining, 23:33435
resolution of GT-60, system for increasing, 23:17782
resolution of single gamma counting and coincidence counting in focusing collimator, 23:19948
resolution of, contrast efficiency function for spatial, 24:16867
resolution of, design of phantom for testing depth, 22:37997 (UCLA-12-689)
resolution of, optimization of, 23:33419
resolution of, use of information theory for optimizing, 23:50133
resolution requirements for brain scanning, 24:39208 (ACRH-1000-190)
response of scintillation, effects of scattered radiation on, 23:33429
response of scintillation, effects of scattered radiation on, 23:606 (ACRH-1000-79)
response of two-crystal geometry for whole-body, 23:19954
response of, modulation transfer function for determining, 24:50574
scintigram quality from, in comparison to scintillation cameras, thyroid, 22:45304
sensitivity calculations for, using multichannel ring collimator, 25:42089
signal-to-noise ratio in, method for improving, 21:22598
support stand for moving or static, design of, 23:38278
testing of, phantom for, 25:29328 (ORNL-TM-3261)
theory of working region of distance-independence for point sensitivity in air, 25:39711
transport system of two-crystal, experimental evaluation of motion characteristics of, 23:2560 (ORO-2401-25)
use for whole-body counting, 22:33655
use of γ spectrometers as, 21:43472
use of linear, 22:2365
use of new gamma topography-2, for kidney color scanning in man, 23:43818

RADIOISOTOPE SCANNING
(Determination of radioisotopes within a body from external measurements—includes among other techniques scintiscanning and whole-body counting. Does not include Autoradiography.)
accuracy for diagnosis of liver metastases, 24:48616
accuracy of thyroid carcinoma, using iodine-131, effects of chewing tobacco on, 21:36674
accuracy of, factors influencing, 25:32477
advantages and disadvantages of various bone-seeking isotopes for, 21:10976
agents for brain tumor, evaluation of, 21:20234(R) (NYO-2182-9)
analysis by computer, program for, 25:8716
analysis of human kidney, mathematical, (T), 23:6501
analysis of photoscanning for, using digital computers, 21:10995
analysis of thyroid, use of computer for, 21:20265
apparatus for bone lesions, design of new, 22:38400
applications in biomedical sciences, research on, 24:48600 (BNWL-1307(Pt.2), pp 45-9)
barium-137m for use in, design of generator for production of, 21:18086
bibliography on, 23:24678 (TID-3319)
bibliography on, 23:50609 (TID-3319(Suppl.1))
bibliography on, 25:37836 (TID-3319(Suppl.3))
bibliography on, 24:32061 (TID-3319(Suppl.2))
bibliography on, 21:41470
bibliography on, 21:41471
bibliography on gallium-67, gallium-68, or technetium-99m for, 25:42550 (ORNL-TM-2091(Suppl.2))
bibliography on uses of, for diagnosis of neoplasms, 24:4649 (NP-18069)
book: Advances in Dynamic Radioactive Scanning, 23:50657
book: Annual Review of Medicine, 25:2575
book: Application of Radioiodinated Rose Bengal and Colloidal Radiogold in the Detection of Hepatobiliary Disease, 24:25520
book: Atlas of Nuclear Medicine, Vol. 1. Brain, 24:34454
book: Bases of Nuclear Medicine, 23:6606

book: Clinical Applications of Physics of Radiology and Nuclear Medicine, 24:9907
book: Clinical Nuclear Medicine, 24:46635
book: Clinical Radioisotope Scanning, 21:41470
book: Clinical Radioisotopic Diagnostics, 23:5005
book: Clinical Scintillation Scanning, 23:50725
book: Diagnosis and Therapy with Radioisotopes, 23:50610
book: Diagnostic Nuclear Medicine, 25:46917
book: Fundamental Problems in Scanning, 23:29617
book: Handbook for Technologists of Nuclear Medicine, 25:58049
book: Handbook of Radioactive Nuclides, 24:50917
book: Isotopes Available for the Medical Practitioner, 23:5004
book: Isotopes: Bioclinical Applications, 23:45830
book: Nuclear Medicine, Scintigraphic Diagnosis, 24:7959
book: Phosphorus Isotopes in Oncological Diagnosis, 23:50712
book: Problems in Experimental and Clinical Radiology, 25:42292
book: Progress in Lymphology, 24:41925
book: Progress in Radiology, 22:38392
book: Pulmonary Investigation with Radionuclides, 25:4662
book: Radioactive Isotopes. Their General Biological and Medical Applications, 22:36309
book: Radioisotope Scanning, 24:9897
book: Radioisotope Scanning, 24:9897
book: Radionuclide Applications in Neurology and Neurosurgery, 25:547
book: Use and Interpretation of the Lung Scan, 25:42583
book: Year Book of Nuclear Medicine 1967, 23:4982
book: Year Book of Nuclear Medicine 1968, 23:4983
brain pathology, comparison of conventional scanning techniques with scintillation camera for, 21:8862
calcium-47 use in, of calcium absorption in human beings, 21:10782
calibration factors in, of cesium-137 in man, 22:51311 (UR-49-999)
calibration of standards for, of strontium-90 bremsstrahlung in experimental animals, 22:10827(R) (UCD-472-114)
cesium-131 use in, of infarcted myocardium, 21:24511
collimation for scintillation, method for testing focused, 22:21553
collimator design for low-energy gammas, 21:20259
collimator design for use during, of lungs with xenon-133 and scintillation detectors, 22:40773
collimator design for use with γ cameras for, 22:51821
collimator system for use with scintillation detector for tomographic, 24:34447
collimators in, method of correction for resolving power of, 21:26527
comparison of differential and integral techniques, 23:16332 (NIRS-7, pp 69-79)
comparison of iodine-131 and technetium-99 for, of lungs of dogs, 22:51805
comparison with radiography for diagnosis of neoplasms, 24:12174
computer applications to, review of, 21:8867
computer evaluation of data from, 23:2851(R) (NYO-910-71)
computer program for analysis of renal, 23:33753 (RISO-M-878)
computer program for use in, of metabolic systems, 22:19356
computer read-out system for three-dimensional, 22:12871
conference on, 21:41471
conference on, 21:43495
conference on biological and medical application of, 23:48089 (STI/PUB-193(Vol.2))
conference on methods for diagnosis and localization of brain tumors using, 24:29789
conference on methods for diagnosis of bone diseases using, 25:24243
conference on uses of, in medicine, 25:13482 (CONF-661071)
conference on, abstracts of papers from, 25:29570 (CONF-691016-(Absts.))
conference on, Japanese Radiological Society, 23:35820
conference on, of human nervous system, 25:32469
conference on, Rome, September 22 to 28, 1965, 23:48165
conference on, summaries of papers from, 23:45815
contrast intensification during, use of television reproduction for, 25:58059
count density variations in displays in, statistical model for visualization of, 23:50696
counter development for whole-body cattle, 25:52142
counting systems for whole-body, 22:6848
criteria for labeled compounds for brain tumor localization by, 24:29796
darkroom processing technique for improvement of scan resolution in, 22:49401
data acquisition and display systems for scintillation, use of computers for, 22:49405
data acquisition and processing system for, design and operation of digital, 25:37834 (ORO-2401-29)
data acquisition, analysis, and display systems for, using γ cameras, development of digital computer for, 25:8725
data analysis and recording during, use of digital computers for, 24:17072(R) (COO-1472-27)
data analysis for enhancement of scan resolution, methods for computer, 25:42557
data analysis for, computer method, 24:14537
data analysis for, development of statistical method for, 25:26856
data analysis for, use of table-top digital computer for, 24:12178
data analysis using computers, 22:36307
data averaging techniques for medical, 22:40804
data blending and contrast enhancement during, development of television system for, 23:50670
data display and processing systems for, using gamma camera, 24:32106
data for diagnosis, survey of methods for handling, 24:48624
data from dynamic and static, digital display and storage of, 23:48162
data from kidney, use of analog and digital computer for simulation of, 23:2852 (RISO-M-766)
data from, use of four-color isocharts for, 22:49444
data interpretation for human thyroid, use of digital computer for, 24:12153
data on disorders of human liver, design of system for processing of, 22:38371
data processing and recording systems for, using gamma camera, 24:32109
data processing and storage systems for, design of, 23:26847
data processing during, design of system for computerized, 22:6833 (CONF-671027-1)
data processing during, design of system for computerized, 22:6833 (CONF-671027-1)
data processing during, development of color printout method for, 24:34477
data processing for iodine-131, of thyroid, use of digital computer for, 24:12151
data processing for, comparison of dot shifting with variable spatial averaging for, 24:12166
data processing method for gamma camera, computerized, 25:49241
data processing methods for, 23:12147 (NYO-910-75, pp 2-10)
data processing system for γ, development of computer, 25:21758
data processing system for, using digital computer, 25:26834
data processing system for, using small desk computers and regression analysis, 23:50669
data processing systems for, 25:39889 (ORO-2401-28)
data processing systems for, using gamma camera, 24:32108
data processing using desk-top computers, 25:58065
data processing, recording, and display systems for, 24:32053 (COO-78-218)
data system for, 24:12159
design of computer program for focusing of scans during, of thyroid, 23:933(R) (NIRS-6)
design of system using digital computer for data analysis, 21:16372 (COO-1472-11)
detector for use in, performance of single-hole collimated, 22:12864(R) (ORO-2401-10)
detector system for, design of, to permit high-speed section scans of brain, 21:26511
development and potentials of, 23:50728
development for localization of neoplasms, 21:26476
development in Russia, 22:8568
development in USSR from 1960 to 1970, 25:52128 (A/CONF.49/P-462)
development of analog computer data processing systems for scan data, 24:32052 (COO-78-215)
development of computerized system for low-level whole-body, 22:12864(R) (ORO-2401-10)
development of data acquisition system for use in computer analysis of data from, 22:40809
development of data display systems and computerized data processing systems for scan data for, 24:29794
development of equipment for, of bone metastases using phosphorus-32, 21:28577
development of gamma cameras for, 22:25939
development of high-speed under-the-table scintillation detector system for, 23:9984 (UCLA-12-686, pp 21-31)
development of labeled compounds for medical, 22:25714 (COO-78-163, pp 126-36)
development of method for localized, to determine survival of pedicle skin graft, 22:40763
development of new methods for, abstracts of 300 papers on, 25:42560
development of photoelectric object-plane system of, for use in microdosimetry in bone and bone marrow, 22:38309
development of scintillation counter meeting IAEA specifications for, of iodine-131 in human thyroid gland, 22:38346
development of shadow-shield mobile whole-body monitor for iron-59, 22:12855
development of split crystal γ camera for simultaneous, of kidneys, 21:43478
development of techniques for neoplasm, 21:39481
development of video magnetic tape data recording system for, of dynamic radioisotope distribution visualized by γ cameras, 23:38672
development of, review of, 23:50159
developments in, 24:48627
developments in Australia, review of, 23:9998
developments in human brain, review on, 25:35177
developments in Japan during 1969, review of, 24:32070
developments in medical, review of, 22:28605
developments in renal, 24:34439
developments in, review, 25:52132 (A/CONF.49/P-653)
developments in, review of, 21:34701
developments in, review of, 25:52129 (A/CONF.49/P-629)
display and storage system for, 24:12182
distribution data for quantitative, statistical analysis of, 25:58062
distribution patterns in, computer-based method for interpretation of, 24:9644
dose during, by use of conformation planigraphy, 21:41433
dose to critical organs from radioisotopes, 21:22494
dose to fetus and mother during placental, 21:45656
dose to man during thoracic, 21:28462
dose to organs of body following intraarticular administration of gold-198, 22:14958
dosimetry for, suitability of units for, 24:7837
dosimetry in man during, 22:28484
double isotope method for kidney, iron-59 and technetium-99, 21:24485
drug preparation for, 25:4415
economic aspects of fluorine-18 and metastable technetium-99, 24:39528 (PRNC-135, pp 253-60)
effectiveness for clinical diagnosis, 23:50740
effectiveness for detecting neoplasms in human tissues, criteria for evaluation of, 22:36323
effectiveness for diagnosis and localization of human brain tumors, comparison of, with other methods of diagnosis, 24:29802
effectiveness for diagnosis and localization of neoplasms, review, 25:52127 (A/CONF.49/P-407)
effectiveness for diagnosis and prognostic evaluation of human neoplastic metastases, 23:45822
effectiveness for diagnosis and therapeutic evaluation of tumors in patients, 25:29580
effectiveness for diagnosis of astrocytomas of human brain, 25:24249
effectiveness for diagnosis of autotransplantation of spleen in man, 25:52137
effectiveness for diagnosis of brain lesions and malignancies, 25:26850
effectiveness for diagnosis of diseases in man, review of, 25:49225 (UCLA-12-815, pp 99-141)
effectiveness for diagnosis of hematopoietic diseases, 23:29619
effectiveness for diagnosis of human brain neoplasms in comparison to radiography, 24:2743
effectiveness for diagnosis of human brain tumors in comparison with angiography, 25:55293
effectiveness for diagnosis of human pulmonary sarcoidosis, 23:50663
effectiveness for diagnosis of hydatid disease of human liver, 25:13494
effectiveness for diagnosis of liver diseases and liver metastases, 23:29623
effectiveness for diagnosis of lung disorders following embolism, effects of perfusion-ventilation relations on, 25:4679
effectiveness for diagnosis of Paget's disease in comparison to biochemical methods and radiography, 25:55294
effectiveness for diagnosis of polycystic renal degeneration in man in comparison to radiography, 25:545
effectiveness for diagnosis of pulmonary embolism, 25:4680
effectiveness for diagnosis of tumors in human liver, 25:58044
effectiveness for evaluation of myocardial infarction, 22:31138
effectiveness for evaluation of response of human brain tumors to drug therapy, 25:42556
effectiveness for liver function studies following combined surgery and radiotherapy for lung cancer in man, 25:32499
effectiveness for localization of kidney neoplasms, review of, 25:11115
effectiveness for localization of neoplasms of human lymph system in comparison with radiography, 25:58055
effectiveness for measurement of blood pressure in human lungs, 25:42554
effectiveness for measurement of cerebrospinal fluid flow dynamics, effects of previous lumbar puncture and pneumoencephalography on, 25:52139
effectiveness in combination with radiography for diagnosis of lung diseases, 25:4675
effectiveness in diagnosis of human kidney disorders and tumors in comparison to radiography, 23:29643
effectiveness of brain, effects of prior cerebral angiography on, 21:43484
effectiveness of γ venography and lymphoscintigraphy, in comparison with microscopy during lymphadenectomy, 25:35186
effectiveness of human lymph system, comparison of microscopy in gynecological carcinomas with, 25:35186
effectiveness of low energy γ emitters in, 25:26849
effectiveness of multiple images for, of human lungs, 25:4670
effectiveness of perfusion and ventilation, for diagnosis of human bronchopulmonary dysplasia, 25:42551
effectiveness of short-lived radioisotopes for, 23:50701
effectiveness of use of positron-emitting radioisotopes for localization of brain tumors by, 24:29798
effectiveness of whole-body, for measurements of iron-59 sorption in man, 25:6731
effectivensss of iodine-131 and technetium-99 preparations for human lung, 23:43821
effects on x-ray dose to tissues of man in comparison to dose from x radiography, 24:50882 (CONF-691212-, pp 157-84)
efficiency of scintillation, using 11.5-in. crystal, 25:21754
equipment and facilities for, description of Liege Univ, 24:11773
equipment and methods for thyroid function test, 23:50692
equipment and procedures for medical, in man, 22:31116
equipment and procedures for, review of development of, 23:16357
equipment for contrast accentuation during, design of rescanning, 21:24504
equipment for evaluation of low-background readings from whole-body, 22:222
equipment for gamma emitters, description of, 25:55590(R) (EIR-192)
equipment for, development of data display and recording systems, 23:50160
equipment for, improvements in, 24:48601
equipment for, theoretical problems, 21:22594
errors in human brain, from diploic space changes in anemia, technetium-99, 23:35807

errors of retention in, for diagnosis and metabolism studies, 24:23006
evaluation for brain tumor localization, 24:29797
evaluation for measurement of glomeruli filtration rate in human kidneys, 25:42574
evaluation of analog systems for storage of scan data during, 24:50962 (ACRH-1000-201)
evaluation of eleven labeled compounds for brain tumor, in mice, 22:38361
evaluation of image-intensifier and single-crystal scintillation cameras for, 23:38679
evaluation of indium-113 for, of bones and kidneys in rabbits, 22:40747
evaluation of iodine-125- and iodine-131-labeled chloroquine analogs for, of malignant melanomas, 22:10820
evaluation of iodine-131-labeled analogs of 1,1-dichloro-2,2-bis(chlorophenyl) ethane for, of adrenal carcinomas, 22:10819
evaluation of iodine-131-labeled diethylstilbestrol for scintillation, of tumors of human prostate gland and testes, 22:10814
evaluation of isotopes for, of bones, 22:43386
evaluation of labeled compounds for, of brain, 22:25714 (COO-78-163, pp 126-36)
evaluation of procedures for, in relation to information theory, mathematical, 23:35785 (ACRH-31, pp 12-24)
evaluation of radioisotopes for transmission, 23:43807 (COO-1422-58)
evaluation of records of, for dosimetry of human organs, 23:35728 (ORAU-107, pp 151-5)
evaluation of rectilinear and dual probe, for diagnostic studies in man, 25:58057
evaluation of rectilinear scanners for, 21:39482
evaluation of use with radiography for differential diagnosis of osteoarthritis and osteonecrosis in man, 24:12185
evaluation of variables affecting scan image, use of three-dimensional phantoms for, 25:4657 (UCLA-12-782, pp 89-125)
evaluation of whole-body, for determination of radioisotope distribution in man, 25:13503
evaluation of xenon-133, for measuring distribution of blood flow in human lungs, 25:4672
evaluation of, design of television subtraction apparatus for, 24:760
facilities for, design criteria for hospital, 21:8855
facilities for, using radioisotopes, design and procedures for safe management of, 21:10892
film contrast for, enhancement of, 22:40762
frequency of radioisotopes used in, during 1966, 23:29635
gamma camera design and performance for, 22:19371
gamma camera design for, 22:12887
gamma camera for use in, design of autofluoroscopic, 22:36297
gamma sortion phenomena in, of man, 24:34341
gamma sources for, use of low-energy, 22:530
gamma spectra processing for, in man, 22:28543
geometric and physical parameters in gamma radiation whole-body counting, 21:26143 (ANL-7220, pp 31-9)
grid system design for brain, 22:38401
hazards from use of iodine-131-labeled serum albumin for, of spinal cord, 22:28599
hazards from use of, in human children and for placentography, evaluation of, 23:16363
hazards to fetus following, of placenta, 23:24759
hazards to human fetuses, protection against, 23:20415
hazards to man, methods for control of γ, 23:50551 (PHS-999-RH-33, pp 78-86)
hydraulic positioning bed for, 24:34513
image display and analysis system for, of human brain and lungs, 24:7961
image enhancement by optical spatial filtering, development of method for, 25:21757
image minification during, advantages of, 24:44549
image resolution in, by mathematical processing, 25:4611 (CEA-R-3920)
image resolution in, method for computer focusing using Gaussian function, 24:12172
indium-113 on use in, of brain, 21:18090
indium-133 on use in, of blood pools of heart and placenta, 21:18090
indium-133 on use in, of lung, evaluation of, 21:18085
information systems for, review of, 24:34449
instrumentation and procedures for, in Japan, development of, 24:21235
iodine-131 renograms, dosimetry of, 21:28468
iodine-131 use for medical, during 1968, survey of, 24:25492
isotope subtraction technique for simultaneous, of liver and pancreas, 22:12883
isotopes for, in Hungary, review of, 21:45706
isotopes for, standards for, 21:45685
kidneys using isotopic nephrograms in irradiated and burned dogs, 21:403
kidneys using labeled-Hippuran for cystograph, 21:402
kinetic model for two-compartment system using radioisotope tracers for, approximate system for, 22:47546
liver function, using molybdenum-99, 21:18093
localization of tumors of pancreas by iodine-131, 23:6522
measurement of γ-spectra from radioisotopes at different depths during, method for quantitation of data from, 23:12068 (ORO-2401-11)
metastases, radiodiagnosis of bone, use of phosphorus-32 scanning for, 21:28577
method for anatomical localization of scintiphoto during, of man with γ cameras, 22:38341
method for assessing regional function of organ by localized rate constants, 24:31704
method for brain, using technetium-99, 21:24523
method for circulatory diseases using Hungarian four-channel radiocirculograph, 22:40806
method for color display of, using tape recording equipment, 24:12147
method for contrast intensification in, statistical, 21:43486
method for detecting cerebral lesions using iodine-131, mercury-97, mercury-203, and technetium-99, 22:40761
method for detection of lymphatic metastasis in penial cancer, use of phosphorus-32 in, 22:12874
method for determination of human organ volume, 22:38360
method for determination of radioisotope distribution in body sections, 24:31706
method for determining blood circulation in bones of dogs, 23:31857
method for determining pulmonary blood flow, iodine-131, 22:45702
method for diagnosis of cerebrospinal fluid rhinorrhea in human adults and children, 22:49427
method for diagnosis of hemochromatosis in man, 22:51817
method for diagnosis of joint necrosis in man, strontium-85, 22:33883
method for diagnosis of liver cirrhosis in man using gold-198, 23:6519
method for diagnosis of liver diseases, 23:26849
method for diagnosis of liver neoplasia, gold-198 and selenium-75 double-tracer, 25:42580
method for estimating spatial distribution of radioisotopes, 22:49070(T) (JPRS-46486)
method for evaluation of thyroid function, 22:25935
method for evaluation of thyroid function by, 22:25932
method for full size scintiphotography in pericardial effusion diagnosis, 25:24251
method for gamma cameras using recording and display systems, 24:12190
method for human brain, using modified-vertex views, 21:18105
method for human kidneys, 23:38645
method for human lungs using mercury-197, 24:27635
method for human pancreas using selenium-75, technetium-99, optical meter relay, and single-channel analyzer, 23:48156
method for human thyroid gland, following administration of mixed iodine-125 and iodine-131, 22:28619
method for human, to produce simultaneous isosensitive scans and bi-laminar scans, 21:16358
method for increasing reliability of, by eliminating magnification in radiograms for scintiscan superimposition, 23:26836
method for kidney, using x-ray image amplifier camera, 22:518 (UCLA-12-655)
method for kidneys using iodine-131-labeled hippuran, 22:45610
method for liver subtraction, of pancreas, dual channel method for, 23:31852
method for localization and vascular characterization of brain tumors, 22:51806
method for localization of bone metastases using fluorine-18, strontium-85, and strontium-87, 22:40801
method for localization of bone tumors, 22:49445
method for localization of brain tumors, 22:25939
method for localization of brain tumors, 22:49399
method for localization of brain tumors and blood vessel anomalies in man, 22:25933
method for localization of brain tumors and other brain anomalies in man, 22:25934
method for localization of erythropoietic tissues in man, 22:25939
method for localization of human brain tumors, 22:49404(P)
method for localization of human organs, 22:14940
method for localization of human placenta, 22:38359
method for localization of human placenta, 22:31169
method for localization of human placenta using chromium-51, 22:33861
method for localization of neoplasms using carbon-11-labeled compounds, 22:49406
method for localization of placenta, 22:25936
method for localization of placenta using carbon-11, 23:38640
method for localization of subdural hematomas using iodine-131, mercury-197, and technetium-99, 22:45609
method for longitudinal tomographic, using scintillation camera, theoretical considerations for, 24:12156
method for lung carcinoma, using mercury-197 and iodine-131, 21:22523
method for lungs using technetium-99 perfusion combined with radioaerosol inhalation, 22:40784
method for measurement of blood circulation in human heart, 22:25937
method for measurement of blood circulation in man, 22:25939
method for measurement of pulmonary ventilation and perfusion relationships, 23:6495
method for measuring blood flow using calcium-45 and strontium-85, 22:8584
method for measuring flow of cerebrospinal fluid, 23:6503
method for measuring prostate circulation, 22:10694
method for mediastinal lymph nodes using colloidal gold-198, 24:21239
method for muscular dystrophy, using cesium-131 and iodine-125, 21:24529
method for overlapping tissue, mathematical analysis of double isotope, 22:40743
method for pancreas using selenium-75-labeled methionine, technique for cancelling hepatic shadow from, 22:40742
method for pancreas with elimination of liver image by dual-channel technique, 22:49402
method for parathyroid gland, use of selenomethionine in, 22:38334(R) (COO-1653-45)
method for phosphorus-32, of tumors at back of eye, 21:6565
method for placenta praevia using technetium-99-labeled albumin, 22:40795
method for precision whole-body counting of iron-59 content of man, 23:50650 (BNWL-1051(Pt.2), pp 213-20)
method for profile, for dosimetry of γ-emitting radioisotopes deposited in man, 22:6798(R) (IAEA-2819-6)
method for quantitative, in man, 22:36332
method for simulating photographic, from dot scan, 21:24462
method for simultaneous measurement of blood plasma volume and erythrocyte mass of man, 22:51824
method for skeletal, using whole-body profile scanner and strontium-85, 22:8569
method for study of lymph system function and morphology in man, 25:42581
method for subtraction of scalp and skull interference during, of human brain, 25:32478
method for technetium-99, of vertebral canal in man, 23:2866
method for three-dimensional, using double-isotope method and computer processing, 24:12137
method for thyroid, computer programs for interpretation of, 22:40796
method for visualization of liver, 22:51793
method for visualization of liver and spleen, 22:25938
method for whole-body, for plutonium determination in rats, 22:51630
method for, of blood flow and tissue perfusion using scintillation cameras, 21:10993
method for, of liver and spleen diseases using scintillation cameras and technetium-99m sulfur colloid, 21:10994
method for, of lung lesions using technetium-99m-labeled serum albumin, 21:18094
method for, of renal blood flow using rubidium-86 and scintillation counting, 21:6593
method for, of smaller lesions in organs of thick dimensions using simultaneous bilamino and isosensitive scanning, 21:10973
method for, using color scintigraphy, 22:38389
method for, using isosensitive scanning technique, 21:10972
method of external, for internally deposited β emitters, 21:22510
method of whole-body, for measuring iron sorption, 22:10695
method using cesium-132 and whole-body counting, 21:20301
method using iodine-125, iodine-131, and iodine-132 for repeated thyroid function tests, 21:24486
method using iron-59 to study bone marrow distribution, erythrocyte sequestration, and hepatic iron deposition in man, whole-body, 24:12138
method using measurements of x radiation with gamma subtraction for metastable indium-113 and technetium-99, 24:12195
method using neutron activation analysis in vivo, 25:57785
method using quantified lung scans for measuring lung perfusion, 23:45818
method using stereoscintiphotography for diagnosis of human brain tumors and thyroid nodules, 25:24254
methods for adrenal glands, 24:2747
methods for adrenal glands in dogs, testing of compounds for, 23:33775
methods for anatomic localization during, 24:36786
methods for angiography using indium-113, 23:6515
methods for assay of metastable indium-113, review of, 24:48560
methods for atherosclerosis and thrombi using iodine-131-labeled coagulant and lytic agents, evaluation of, 21:36623(T) (JPRS-41149, pp 65-73)
methods for auxiliary, parasternal and subclavical lymphatic ganglia using colloidal gold-198, 23:24676 (CONF-670649-4)
methods for avoidance of hot spots during, of lungs using macroaggregated albumin, 24:44542
methods for bone diseases using radioisotopes in conjunction with radiographs, 21:20296
methods for bone, liver, lungs, and thyroid, 22:45650
methods for bones, 23:50248
methods for bones, using strontium-85, review of, 23:38646
methods for brain, 23:50700
methods for brain, comparative study on use of mercury-197-labeled chlormerodrin and technetium-99m-labeled pertechnetate for, 23:33776
methods for brain, heart, salivary glands, and stomach, 22:25941
methods for cardiography, development of heart phantom to determine sources of error in chromium-51, 22:25776
methods for cartilaginous neoplasms, review of, 21:45740
methods for clinical medicine using double-isotope techniques in combination with Anger scintillation camera, 24:34453
methods for clinical, using lithium-drifted germanium detectors, conditions and factors affecting, 25:13487
methods for combined skull and ventricular, for diagnosis of infantile hydrocephalus, 25:55290
methods for computer focusing of collimated scintillation detectors, 23:50685
methods for computer simulation of, 24:48620
methods for contrast enhancement of scans using closed circuit television, 24:9899
methods for cystic fibrosis, 23:45681 (CONF-690604-(Absts.))
methods for demonstration of portosystemic shunts, 23:35799
methods for detecting metastases and tumors using iodine-131-labeled Rose Bengal, 24:34496
methods for determination of liver mass, 23:6513
methods for determination of location and size of tumors for radiotherapy planning, review of, 23:884
methods for determining cerebrospinal fluid distribution, 23:22323

methods for determining indium-113m uptake by plasma transferrin in man and in vitro, 23:31615
methods for diagnosing bone tumors in man using strontium-85, 24:41916
methods for diagnosis and evaluation of pulmonary embolisms, 23:38642
methods for diagnosis of amebic abscesses in human liver, 24:44543
methods for diagnosis of bone and joint tuberculosis, 23:26840
methods for diagnosis of bone neoplasms, 23:35794
methods for diagnosis of bone neoplasms, 23:12148 (NYO-910-75, pp 10-26)
methods for diagnosis of bone sarcomas, 23:29628
methods for diagnosis of brain lesions, 23:50729
methods for diagnosis of brain tumor in children, 23:31836
methods for diagnosis of bronchogenic carcinomas, evaluation of, 23:31841
methods for diagnosis of cerebrovascular lesions using metastable technetium-99, serial, 24:50988
methods for diagnosis of decompression sickness, 23:2879
methods for diagnosis of diseases and visualization of human thyroid using technetium-99, 22:51858
methods for diagnosis of diseases of spinal cord and vertebral column, 21:30858
methods for diagnosis of diseases of spleen, 22:49466
methods for diagnosis of femur head necrosis in man, strontium-85 and strintium-87m, 23:24683
methods for diagnosis of heart diseases, 23:18048 (CONF-670958-, pp 114-45)
methods for diagnosis of hemolytic anemia in man, whole-body calcium-47, 22:25956
methods for diagnosis of human bone lesions, strontium-85, 23:6493
methods for diagnosis of human thyroid cancer using iodine, 25:11217
methods for diagnosis of infections in human spinal column, iodine-131, 22:25928
methods for diagnosis of liver diseases in man, progress in, 24:41927
methods for diagnosis of liver malignancies using iodine-131, 25:13483
methods for diagnosis of malformations of blood vessels in brain, 23:6511
methods for diagnosis of myeloma in man, 22:51785
methods for diagnosis of neoplasms in brain and liver, comparison of photoscan and quantitative scan, 23:12147 (NYO-910-75, pp 2-10)
methods for diagnosis of pulmonary embolism using xenon-131, 23:6508
methods for diagnosis of renal tuberculosis, 23:26841
methods for diagnosis of renal tubular adenomas using mercury-203, 23:6521
methods for diagnosis of skeletal diseases using technetium-99m-iron complex, 24:7949
methods for diagnosis of thyroid diseases, comparison of, 22:25922
methods for diagnosis of tumors in mice using phosphorus-32, 25:543
methods for diagnosis of Wilson's disease, copper-64 whole-body, 23:33779
methods for differential diagnosis of brain edema, 24:50967 (COO-1653-87(Draft))
methods for digital processing of data from transverse scans of brain following, 23:6520
methods for digital, review of, 21:28563
methods for dose calculation in, 23:43773
methods for early detection of malignant metastases in human bones, 23:33800
methods for early detection of metastatic tumors of bone, 23:29610 (UCRL-18347, pp 23-35)
methods for electronic and optical simultaneous, review of, 23:18046 (CONF-670958-, pp 76-87)
methods for evaluation of blood circulation in brain, liver, lungs, and spleen, 22:33839 (UCLA-12-640, pp 1-30)
methods for evaluation of blood circulation in kidneys, 22:25945
methods for evaluation of blood circulation in kidneys, compartmental analysis of iodine-131, 22:25944
methods for evaluation of blood circulation in localized organs and tissues, 22:25946
methods for evaluation of blood circulation in uterus during pregnancy, xenon-133, 22:25948
methods for evaluation of bone regeneration following fractures, 23:29628
methods for evaluation of contour interval, 23:14217 (ORO-2401-15)
methods for evaluation of erythropoiesis and iron storage in man, 23:29609 (UCRL-18347, pp 10-22)
methods for evaluation of function and morphology of human kidneys, review of, 23:45831
methods for evaluation of function of circulatory and respiratory systems in man, review of, 23:45829
methods for evaluation of human thyroid gland function and morphology, review of, 23:45828
methods for evaluation of kidney function, 22:25958
methods for evaluation of kidney function, 22:25943
methods for evaluation of kidney function using γ scintillation camera and computer data processing, 25:6728
methods for evaluation of liver function, 23:29625
methods for evaluation of peripheral blood circulation in human patients with diabetes, 22:51788
methods for evaluation of size and structure of liver following partial hepatectomy, 23:38652
methods for gastroenterology, review of, 24:32075
methods for γ encephalography, 25:550
methods for heart, using potassium-42 or rubidium-86, 24:9888
methods for hemodynamic function studies, use of multiple dual channel detector for simultaneous, 24:41729
methods for human children, 24:29801
methods for human kidneys using gamma camera, quantitative, 24:50980
methods for human liver and spleen, review of, 23:45832
methods for human lungs, 23:18068
methods for human lungs, 23:18064
methods for human lungs using iodine-131 or xenon-133, 23:10028
methods for human spleen diagnostics using mercury-197 and technetium-99m, 25:24267
methods for human thyroid, computer storage methods for evaluation of, 25:55282
methods for image improvement, 24:4650(R) (NYO-3175-55)
methods for image interpretation in, threshold detection tests for visual interpretation, 24:48603
methods for imaging both lungs simultaneously, 23:38641
methods for improvement of, 22:14906 (BNL-50057, pp 123-37)
methods for improvement of, of human brain and pancreas using electronic subtraction method, 25:6727
methods for increased reliability and speed using analog-digital converter, computer, and magnetic tape, 25:11122
methods for inflated lung tissue using Anger camera in comparison with radioisotope ventilation tests, 25:13500
methods for iodine-131 suppression, for diagnosis of thyroid nodules, 24:34488
methods for iron-59 using geometry, photon measurements, and sodium iodide detectors, 24:48383
methods for kidney, liver, spleen, and thyroid, 21:12925
methods for kidneys and spleen using mercury-197-labeled aceto-mercuri-hydroxypropane, 23:24677 (CONF-670649-16)
methods for kidneys, in rats, 22:51792
methods for kidneys, liver, lymph glands, lungs, pancreas, spleen, and thyroid gland, 23:2894
methods for liver diagnosis, appearance of truncated left lobe during routine, 24:9891
methods for liver diseases and neoplasms, diagnostic value of, 23:38653
methods for liver, comparison of gold-198, indium-113m, and technetium-99m, 23:33763
methods for liver, to prevent false-positive results, 21:22647
methods for localization of benign tumors in bones, 23:29624
methods for localization of bone neoplasms and metastases, 23:6492
methods for localization of bony metastases of neoplasms, strontium-85, 23:2867
methods for localization of brain tumors and cerebral infarcts in humans using mercury-197, 22:51859
methods for localization of brain tumors using ytterbium-169, 23:6514
methods for localization of cerebral infarction, serial, 22:49460
methods for localization of human brain neoplasms, 23:6496
methods for localization of human placenta, 23:18069
methods for localization of human placenta, 22:49398
methods for localization of hyperfunctioning parathyroid tissue, 23:12148 (NYO-910-75, pp 10-26)
methods for localization of neoplasms, 23:9985 (UCLA-12-686, pp 32-52)
methods for localization of neoplasms, 23:6491 (NYO-910-76(App.1))
methods for localization of neoplasms in human spinal column, iodine-131, 22:25928
methods for localization of organs during, using roentgenograms, 23:26836
methods for localization of pancreas, 23:29622
methods for localization of pancreas, 23:38677
methods for localization of placenta using intravaginal radioisotope marker, 23:50661
methods for localization of septic abscesses, 22:51782
methods for lung, using radioaerosols, 22:6834 (UCLA-12-656)
methods for lungs using technetium-99-labeled iron hydroxide macroaggregates, 24:9889
methods for lungs, comparison of iodine-131 and technetium-99, 23:20274
methods for man, evaluation of detectors for, 24:48617
methods for measurement of blood circulation in areas of bone fractures, iodine-131, 22:25955
methods for measurement of blood circulation in brain, xenon-133, 22:25949
methods for measurement of blood circulation in brain, krypton-85, 22:25950
methods for measurement of blood circulation in brain, iodine-131, 22:25951
methods for measurement of blood circulation in dog heart, 23:12143(R) (COO-1267-3)
methods for measurement of blood circulation in heart following insertion of cerium-141-labeled catheter, 23:8021 (UCRL-18066, pp 58-63)
methods for measurement of blood circulation in heart, rubidium-86, 22:25952
methods for measurement of blood circulation in kidneys, 22:25942
methods for measurement of blood circulation in lungs, iodine-131, 22:25953
methods for measurement of blood circulation in lungs of dogs, 22:31262
methods for measurement of blood circulation in spleen, chromium-51, 22:25954
methods for measurement of blood circulation in stomach, 23:38648
methods for measurement of blood circulation time in man, using dual tracers and multiscaler for, 25:11184
methods for measurement of blood circulation time in heart, iodine-131, 23:33780
methods for measurement of cerebrospinal fluid flow, 23:38680
methods for measurement of distribution of iodine-131-labeled lipiodol following intralymphatic injection in man, 23:50782
methods for measurement of glomerular filtration rate of kidneys, 23:50742
methods for measurement of internal contamination of nuclear power plant personnel in Italy, results of, 25:42435
methods for measurement of liver blood flow, 23:26844
methods for measurement of metabolism in skeleton, 23:26681
methods for measurement of particle distribution for dusts and therapeutic aerosols in human respiratory tract, 23:9986 (UR-49-987)
methods for measurement of regional lung function, xenon-133, 22:25775
methods for measurement of uranium-235 content of personnel, 23:14152 (BNWL-SA-2205)
methods for measurements of blood circulation in brain, kidneys, or lungs, 23:9985 (UCLA-12-686, pp 32-52)
methods for measurements of distribution of americium-241 and plutonium-239 in tissues of dogs following inhalation, 23:6339 (BNWL-714, pp 3.1-38)
methods for measurements of thyroid function, 23:4974(T) (NSJ-tr-120)
methods for medical, 21:11002 (BNL-10722)
methods for metabolic studies, 23:6491 (NYO-910-76(App.1))
methods for multicolor recording of, using gamma camera, 24:36790
methods for neurosurgical diagnosis, 24:41928
methods for one-dimensional, using γ-ray camera, sodium iodide crystal, and mathematical equations, 24:50979
methods for parathyroid glands in dogs, testing of compounds for, 23:35801
methods for positioning human head, 24:9887
methods for positioning maneuver during, of mitral valve in human heart, 25:11187
methods for prevention of false-positive results during, of liver, 21:22647
methods for producing reversal photoscans during, 23:33778
methods for prostate gland, 23:26684
methods for pulmonary function studies using, 24:34514
methods for quantitating joint inflammation in patients with rheumatoid arthritis, 23:38647
methods for quantitative measurement of radioactivity in human organs, 23:33723
.methods for quantitative, using color display of gamma camera images, 24:34445
methods for radioactive iodine sodium iodohippurate for renography during pregnancy, 21:1780
methods for reduction of physiological motion of liver during, 25:24258
methods for reduction of respiratory artifacts during, of liver, 23:6497
methods for reduction of respiratory artifacts during, of liver, 23:6498
methods for renal function studies, 24:41929
methods for scan duplication by rapid photocopy methods, 21:6606
methods for scintillation, review of, 23:9727
methods for simultaneous, evaluation of electronic and optical, 23:18046 (CONF-670958-, pp 76-87)
methods for strontium-90 following administration of solutions mixed with strontium-85, 23:6490(T) (NSJ-tr-96)
methods for study of distribution of cerebrospinal fluid, 23:29629
methods for study of kidney anatomy and function using iodine-131, 23:10032
methods for subtraction of tissue background during kidney, 24:32087
methods for superimposing organ scans for diagnosis following, 25:32468
methods for survey of skeleton for lesions, 23:50687
methods for three-dimensional stereoscopic visualization of radioisotope deposition in tissues, 23:38678
methods for three-dimensional, using γ—γ coincidences, 23:620
methods for thyroid gland, comparison of iodine-125, iodine-131, and technetium-99, 23:38638
methods for thyroid gland, review of, 25:29573
methods for transmission, of human lungs, 23:6489 (COO-1422-24)
methods for treatment planning, factors affecting decision processes in, 24:41920
methods for use of zinc-69-labeled zinc chloride for scanning of prostate glands, to determine dosimetry, and to study biological fate of zinc, 25:11204
methods for using, 24:14535
methods for visualization of blood circulation, bone marrow, brain, kidney, liver, lungs, placenta, and spleen, technetium-99, 22:25940
methods for visualization of heart chambers, lungs, and veins using ultrashort-lived radioisotopes, 22:51855
methods for visualization of lymph system in lungs, colloidal gold-198, 22:25924
methods for visualization of pancreas using dual tracers, 23:38670
methods for visualization of renal blood circulation, 23:6512
methods for whole-body, for beagle dogs, 25:24029
methods for whole-body, for metabolism studies, 24:11772
methods for whole-body, scintillation detector arrangement, 23:4802(T) (ANL-Trans-688)
methods for whole-body, using rotational technique for man, 23:50522(P)
methods for yttrium-90 using bremsstrahlung counting techniques, 23:6490(T) (NSJ-tr-96)
methods for, abstracts from conference on, 24:4656
methods for, conference on, 24:36782
methods for, development of, 23:48103
methods for, in man, 24:34470
methods for, of human lesions and organs, 21:8876

methods for, of pulmonary arteria and venous blood volumes in dogs, uses of iodine-131 and iodine-125 for, 21:10954
methods for, review of, 21:34700
methods for, review of, 21:34700
methods for, review of international, 25:26855
methods for, review of state-of-the-art, 23:16106
methods in clinical medicine, 23:14219 (ORO-2401-27)
methods in comparison to ultrasonic scanning, 24:50903
methods in diagnostic nuclear medicine, recent advances in, 25:37833 (A/CONF.49/P-92)
methods in man, quantitative computer-analyzed, 23:33618
methods in nuclear medicine, 25:26829
methods of, of human liver metastases with iodine-131, 21:14704
methods of, uses of scintigraphy of bone compared to x-ray diagnosis, 21:20295
methods uring short-lived radioisotopes, radiation dose to human patients from, 23:38655
methods used in nuclear medicine, review of, 22:31116
methods using Anger camera or autofluoroscopy, evaluation of, 25:6724
methods using double tracers, review of, 25:21776
methods using dual radioisotopes for diagnosis of malignant melanomas, 23:50741
methods using dual tracers, 25:37835 (ORO-2401-33)
methods using four radioisotopes for simultaneous color visualization of multiple organs at various depths, 23:38669
methods using gallium-68-, indium-113-, or technetium-99-labeled pharmaceuticals, use of phantoms for comparison of, 23:6488 (ACRH-1000-82)
methods using gamma cameras, computer processing of data, and color television data display systems for, 23:50715
methods using low-energy γ-emitting isotopes, effects of tissue scattering on efficiency of, 24:7948
methods using mercury-197 or mercury-203, comparison of radiation dose and dose rate from, 23:38663
methods using mercury-203-labeled chlormerodrin or technetium-99m-labeled pertechnetates, comparison of, 23:38664
methods using radioisotope-labeled aerosols for inhalation, of lungs, review of equipment and procedures for, 25:4678
methods using ten-crystal scanner and computer, 25:6722
methods using two radioisotopes, differential, 23:33771
methods using video systems, development of improved detector for, 25:55278
methods using whole-body scintillation counters with computer analysis of data, 23:14220 (ORO-2401-27, pp 3-51)
methods, review of recent developments in, 23:50739
nodule detection during, use of color scans for nonradioactive, 22:38394
optical transfer function in, determination of, 21:20246
organic binding of iodine-131 by human thyroid during, effects of carrier iodide on, 21:22696
patient exposure in Japan during urological, 21:1758
performance for determination of content of protein-bound iodine-131 in plasma of man, 22:19353
performance for determination of site of iodine-131 absorption in intestines, 22:19390
performance for determining hepatobiliary disease, 22:25859 (UCLA-12-668, pp 1-28)
performance for determining regional pulmonary ventilation and bronchial patency, 22:25859 (UCLA-12-668, pp 1-28)
performance for diagnosis of bone lesions in man, 22:38344
performance for diagnosis of bone lesions in man, 22:38388
performance for diagnosis of bone necrosis following radiotherapy, 22:38343
performance for diagnosis of brain, liver, and spleen malignancies in human children, 23:16335
performance for diagnosis of cardiopulmonary diseases in man, 23:8018 (COO-1732-15)
performance for diagnosis of cysts of human spleen, 22:38339
performance for diagnosis of human lung diseases, comparison of, to inhalation methods, 23:18055 (CONF-670958-, pp 281-309)
performance for diagnosis of intracranial disease, 23:18045 (CONF-670958-, pp 71-5)
performance for diagnosis of kidney diseases in human children, 22:38375
performance for diagnosis of kidney diseases in man, 22:38338
performance for diagnosis of liver cirrhosis in man, 22:38395
performance for diagnosis of neuro-ophthalmologic diseases in brain, 22:31134
performance for diagnosis of placenta previa, 23:18047 (CONF-670958-, pp 98-113)
performance for diagnosis of spleen rupture in man, 22:38357
performance for diagnosis of toxic adenomas of thyroid in man, 22:38345
performance for evaluation of kidney function in man with heart diseases, 22:38374
performance for evaluation of kidney function of man with Hodgkin's disease or leukemia, 22:38373
performance for external measurement of rate of DNA synthesis in tumors of mice following injection of iodine-125-labeled idoxuridine, 22:23412 (NYO-3924-1)
performance for localization of bone tumors, 22:21540 (ACRH-1000-34)
performance for localization of tumors in organs of man, review of, 22:33885
performance for measurement of cesium-137 and potassium-40 content of man, whole-body, 22:38302
performance for measurement of iodine-131 content of thyroid and whole-body of man following chronic, low level exposure, 22:21431
performance for measurement of physiological processes in man, 22:38393
performance for measurements of heart output in man, 22:38342
performance for urinary tract visualization, effects of incorporation of radioisotopes in contrast media on results of, 22:25957
performance in azotemic patients in comparison to radiography, 24:12160
performance of collimated scintillation detectors for, use of computer calculation of modulation transfer function for evaluation of, 22:51809
performance of collimators in, development of plane spread-function and volume response for controlling, 22:12872
performance of colloidal gold-198 for lymph system, evaluation of interpretation errors for determining, 25:11177
performance of computers for rapid calculation of data on whole-body potassium-42, for measurement of potassium content of man, 22:19281
performance of detectors for, development of mathematical models for evaluation of, 23:8020 (UCLA-10-P-14-X-39)
performance of flexible esophageal scintillation probe for, of blood output from human heart, 22:36294
performance of flying-spot-scanning system for color presentation of black and white images from, 23:8016(R) (ACRH-29)
performance of gamma camera and rectilinear scintillation scanner for human thyroid, 22:51784
performance of gamma cameras and scintillation scanners for, physical comparison of, 22:49418
performance of gamma cameras for, 23:31834
performance of gamma cameras for, 22:25941
performance of gamma cameras for, evaluation of, 22:51856
performance of gamma cameras for, evaluation of, 23:48098
performance of gamma cameras for, technetium-99, 22:25940
performance of γ camera and rectilinear scanner for brain, using technetium-99-labeled pertechnetate, 22:540
performance of γ cameras and scintillation detectors for, 22:25959
performance of γ cameras for, 23:33785
performance of high quantum fast section scanner for, of brain lesions following administration of chromium-51-labeled tetracycline, 22:10782(R) (UCLA-34-P-119-10)
performance of image intensifier camera for, of blood circulation in brain following administration of technetium-99 or xenon-133, 22:28614
performance of indium-113 for, of body organs of man, review of, 22:40760
performance of iodine-131, for diagnosis of pulmonary dystrophy in man, 22:51676
performance of iodine-131, for diagnosis of pulmonary silicosis in man, 22:51677
performance of iodine-131-labeled iodohippurate in diagnostic, of renal arterial hypertension in man, 22:51847
performance of linear, in diagnosis of lung cancer in humans using iodine-131-labeled macroaggregated albumin, 22:36320
performance of low-energy γ-emitting radioisotopes for, phantom evaluation of, 22:38337
performance of multi-crystal γ spectrometer for whole-body, of man, 22:38406
performance of radioisotopes for, conference on, 22:25931
performance of scintillation cameras and technetium-99-labeled sodium pertechnetate for, of blood circulation in human brain, 22:25905
performance of scintillation detectors for, of thyroid gland of man, 22:38362
performance of technetium-99-iron complex for, of human kidney, 23:2864
performance of whole-body, of various facilities for determination of radium-226 and strontium-90 body burdens in man, 22:28483
performance with computer in processing of radioassay data, β-spectrometer, 22:14931
pharmaceuticals for, review of, 21:22496
phosphorus-32 uptake by thyroid, 21:8697
phosphorus-32 uptake by, in rats, 21:41439
Polaroid photographic films for use in, 24:14534
preparation of dextran-free technectium-99 colloids for, technique for, 23:2740(R) (COO-78-174)
preparation of polyvinylpyrrolidone-stabilized colloids of gold-198 for use for, 23:9978 (CNEA-213)
preparation of sulfur-35-labeled fluorene disulfonamido derivatives for use in, 21:32697
preparation of technetium-99m-labeled sulfide colloids for use in, method for, 23:50247
preparation of technetium-99m-tin complexes for, of kidneys, 24:7950
problems in use of low-level whole-body counters, 23:35792 (ORAU-107, pp 221-3)
production of color scans during, method for, 24:2746
programs in Brazil for diagnostic, 25:52123 (A/CONF.49/P-203)
programs in Japan, review of, 25:52124 (A/CONF.49/P-263)
protection of personnel in, responsibility for, 23:31814
purification of iodine-131-labeled hippuran for kidney, 23:33777
quality of, effects of energy level of γ-emitting radioisotopes on, 22:36324
radiation detectors for, evaluation of, 21:43475
radiation detectors for, evaluation of, 21:43476
radiation dose measurements during, economic aspects of using time-sharing computer facilities for, 24:32116
radiation dose to body and thyroid gland of man during iodine-131, of goiter, calculation of, 22:4623
radiation dose to fetus during, of placenta, effects of tissue attenuation on reduction of, 22:25960
radiation dose to human children during, β and γ, 22:33826
radiation dose to human patients during, methods for control and reduction of, 23:6456
radiation dose to man during, using technetium-99, 22:25919
radiation dose to patients during, reduction of, 23:9981(T) (JPRS-44356, pp 30-40)
radiation dose to vital organ during, 21:22494
radiation effects on man following, review of carcinogenic, 22:45535
radiation effects on, effects of therapeutic doses on, 21:41514
radiation intensity from, color display of, 22:25939
radiation protection guidelines for patients during, 25:8717
radioactive tracers in medical, hazards from use of, 21:16410
radioisotope evaluation for, localization of bone cancer by, 22:10781(R) (NYO-910-59)
radioisotope inventory system for computer programs for, 24:17071 (COO-1472-26)
radioisotope preparation for, technetium-99m, indium-113m, and strontium-87m, 22:51779
radioisotope selection for, of thyroid gland, 21:34697
radioisotope use in, review of, 21:30830
radioisotope-labeled compounds for use in, of spleen tumors, evaluation of, 22:4645
radioisotope-labeled pharmaceuticals for use in, review of, 22:4630 (UCLA-34-P-119-16)
radioisotopes and pharmaceuticals for, criteria for selection of, 23:50726
radioisotopes for, design of shielded container for carrying and dispensing, 21:6507
radioisotopes for, review of economic and technical aspects of short-lived, 24:39527 (PRNC-135, pp 224-32)
research activities at UCLA from July 1969 to July 1970, 25:4425(R) (UCLA-12-782)
research at Oak Ridge Associated Universities during 1969, 24:39539 (ORAU-110)
research in Russia, outline of five-year plan for, 21:39537
research programs in Australia during 1970 on, 25:21687 (CONF-700834-(Absts.))
resolution concepts in scintillation, definitions of, 21:34487
resolution in, methods for correcting distortion from, 25:6726
resolution of images from, modulation transfer function for improved, 23:8016(R) (ACRH-29)
restoration of image in systems for, mathematical models for, 23:933(R) (NIRS-6)
review of brain, using technetium-99-labeled pertechnetate, 23:38636
review of literature in, translation of Polish, 24:46624(T) (TT-69-50002/4)
review of literature, results, and techniques for differential diagnosis of focal brain lesions using, 25:8710 (NP-18560)
review of methods for liver, kidney, and placental, 23:50697
review of methods for measurement of blood circulation in kidneys, 23:38637
review of methods for measurement of kidney function, 23:38637
review of pancreatic, 24:34448
review of uses in medicine, 24:27629
safety of human, in cardiology, 21:28559
safety of infusions of iodine-131-labeled human serum albumin macroaggregates for lung, 25:21755
scan image quality for, statistical evaluation of, 25:58067
scan processing and perception, 22:38351
scan processing method for better interpretation, 22:49456
scan processing, use of digital computer for, 22:40776
scintillation detector design for, 22:51822
scintillation scanner design for, 22:36296
simulation, by computer program, 21:404
spectrometers for, methods for evaluation of resolution of scintillation γ, 22:51812
stack method for visualization of radioisotope concentration, 24:21225
stack method for visualization of radioisotope concentration, 24:21254
statistical analysis of sequential samples counted during γ, 23:50654
strontium-85 use for, of patients with bone lesions, estimation of dose following, 21:28564
strontium-85 use in, of calcium absorption in human beings, 21:10782
survey in USA, 24:50964 (CONF-691212-, pp 463-72)
systems for collection, computer analysis, and video tape display of data during, 23:14218 (ORO-2401-22)
systems for collection, computer analysis, and video tape display of data during, 23:14220 (ORO-2401-27, pp 3-51)
target—nontarget area ratios for high-resolution, 23:4992
technetium-99 dosimetry during, 22:17033
technetium-99 in, use of, for liver and spleen abnormalities, 21:16385
technetium-99 use for, of placenta in human beings, 21:22522
technetium-99 use in, 21:22473 (ACRH-26, pp 57-64)
technetium-99 use in, 21:22472 (ACRH-26, pp 52-6)
technetium-99 use in, of various organs in man, 21:24509
technique for child brain, using technetium-99m, 21:24523
technique for measuring thyroidal uptake of iodine-131, evaluation of sensitive, 21:20261

technique for pancreas using gold-198 and selenium-75, dual channel, 24:9895
technique for whole-body, using I.D.L. Scanner equipped with slit collimated scintillation counters, 24:2669
technique for, of gastrointestinal function, 21:10956
techniques for disease diagnosis in human organs, review of progress in, 24:6075
techniques for tumor, review of, 24:17077
techniques in medicine, abstracts of papers from symposium on, 23:24682
tracer dilution methods for radioisotopes in cardiology, mathematical model for, 21:24501
training courses in, for hospital residents in gynecology, 23:41477
training program for personnel in, 21:45736
training programs for specialists in nuclear medicine in Spain, 23:31832 (CONF-670649-5)
use by physicians in USA during 1966 to 1969, survey of, 24:23245 (BRH/DMRE-70-1)
use evaluation in reference to intracavitary pressure measurements for excretory function studies in man, 24:17097
use for analysis of lung clearance of labeled particles in rabbits, 22:25751
use for blood flow studies on human brain, 25:35178
use for clinical diagnosis, 21:41471
use for delineation and localization of spleen, chromium-51 and mercury-197, 22:38396
use for detection of bone metastases, 21:45670 (ORAU-101, pp 100-2)
use for determination of barium-133 retention time following injection in man, 22:36214
use for determination of cobalt-58-labeled vitamin B_{12} sorption in man, 22:14761
use for determining cerebral hemodynamics, 22:25859 (UCLA-12-668, pp 1-28)
use for determining dehydration states in children, 21:10917(R) (EUR-3129.f,i)
use for determining europium body burden in man, 22:47543
use for determining lanthanum-140 metabolism in rats, 21:28395
use for determining renal function in dogs, 21:45715
use for diagnosing organ form, size, and position, or tumor localization, review of, 22:31159
use for diagnosis of bone diseases as compared to x radiography, 21:20295
use for diagnosis of brain lesions in man, 22:38397
use for diagnosis of extracranial neoplasms, 21:43479
use for diagnosis of human pulmonary disorders, review of combined roentgenographic and, 23:2856 (UCLA-12-687)
use for diagnosis of intracranial diseases in man, 23:29627
use for diagnosis of lung diseases, 21:43481
use for diagnosis of lung diseases, review of, 23:22326
use for diagnosis of parathyroid adenomas in man, 22:28596
use for diagnosis of prostatic carcinomas in man, strontium-85, 22:51814
use for diagnosis of radiation injuries of liver induced by therapy, 21:41513
use for diagnosis of x radiation effects on liver of human adolescents following therapy, 22:40858
use for direct determination of calcium-47 and strontium-85 in feces, tissues, and urine of rats, 23:4964
use for diseases of bone, kidney, or pancreas, review on, 21:22571
use for diseases of brain, heart, and lungs, review of, 21:22551
use for diseases of liver, spleen, and thyroid, review on, 21:22572
use for dosimetry of man, evaluation of, 24:23250
use for estimating volume and mass of thyroid gland containing iodine-131, 21:10898
use for evaluation of effects of diseases on pulmonary function, 21:43482
use for evaluation of kidney function, 21:41462
use for evaluation of kidney function in man, effects of hydration on results of, 24:9894
use for evaluation of regeneration of human liver following surgical resection, 24:29811
use for heart lesions, 21:22504
use for imaging of spleen, 22:40748
use for localization of bone lesions in man, 22:40735
use for localization of bone lesions in man, 22:40744
use for localization of brain lesions, 22:40817
use for localization of ectopic thyroid tissue, 21:43477
use for localization of human fetuses, 22:28577
use for localization of human placenta, 23:2884
use for localization of intracranial neoplasms in man, review of doses and type of isotopes used, 22:31198
use for localization of lesions in human bones and joints, 22:49433
use for localization of malignant metastases in human bones, 22:49433
use for localization of metastases from human bronchogenic carcinomas in brain or liver, 22:51808
use for localization of neuroblastomas in sympathetic nervous system, 22:49448
use for localization of placenta, use of technetium-99-labeled sodium pertechnetate bound to human serum albumin for, 21:39466
use for localization of respiratory tract ventilation deficits, 21:43480
use for localization of venous thrombi after injection of iodine-131-labeled fibrinogen antibody, 21:36637
use for measurement of erythrocyte mass of human spleen following injection of carbon-11-labeled carbon monoxide- or rubidium-81-labeled erythrocytes, 22:25906
use for measurement of neutron-activated iodine-128 in human thyroid, 22:36192
use for measurement of plasma clearance of iron in arm and hand, 22:467
use for measurement of regional lung function in man, 22:51794
use for measurement of regional lung function, xenon-133, 22:51791
use for measuring uptake of technetium-99-labeled pertechnetate by salivary glands in man, 21:39460
use for neoplasm localization, bibliography on, 21:34679 (NP-16780(Vol.1)(Pts.2-3))
use for neutron dosimetry of man following criticality accident, whole-body, 22:23504 (HW-76823)
use for personnel monitoring following research reactor accident, 24:7858
use for renal plasma flow using iodine-131 in hippurate, 21:20260
use for reticulo-endothelial system, 21:22537
use for studies of cerebrospinal fluid kinetics, 21:41452
use for visualization of lymph system in mammary glands of man, 22:40734
use in clinical and research studies, conference on, 22:25931
use in clinical medicine, possibilities of, 21:22489
use in combination with linear scanning techniques, 22:2365
use in diagnosis of steatorrhea after iodine-131-fat administration, 21:20251
use in diagnosis, review of, 21:39461
use in diagnostic medicine, review of, 23:29600 (CONF-670649-34)
use in gastroenterology, review of new methods for, 24:32075
use in human liver disease diagnosis, 23:4981
use in medicine, historical review of, 22:49426
use in medicine, review of, 21:39461
use in pediatric practice of, review of, 21:12904
use in pediatric practice, review of safety of, 21:12904
use in preparation of three-dimensional scannograms, 22:45649
use in visualization of kidney functions of man, 21:43490
use of cesium-131 for heart, 21:43453
use of cesium-131 in, of myocardium, 22:38398
use of cobalt-57-labeled vitamin B_{12} for determination of glomerular filtration rate, 21:20277
use of colloidal gallium-68 for, of liver in rats, 21:45709
use of color scintigrams for, of brain tumors, 21:45695
use of color scintigraphy for, of bronchial carcinomas, 21:10984
use of color-rescanner in, 21:41442
use of computers in, 21:45708
use of computers in data analysis for, 21:36658
use of digital computers in, to improve image resolution, 21:16382
use of fluorine for, of bones, β radiation dose to man from, 22:45549
use of fluorine-18 for sequential, of bone transplants, 22:51802
use of fluorine-18 for, of bone lesions and sarcomas, 21:22547
use of gallium-68 as tracer in, 21:45663 (ORAU-101, pp 78-81)
use of gold-198 and iodine-125 for, of human organs, effects of Compton scattering on resolution, 22:33886
use of gold-198 for liver, comparison of, with iodine-131-labeled rose bengal, 21:20245
use of gold-198 for, of human lymph nodes, 23:2897
use of gold-198 for, of liver cirrhosis, comparison of, with use of iodine-131, 21:14696
use of gold-198 in liver and lymph system, in man, 23:4997
use of gold-198- or iodine-131-labeled aerosols for, 21:39473
use of gold-198-incorporated colloids of gelatin or polyvinylpyrrolidinone for, comparison of, 22:43352
use of indium-113 for, 21:36626
use of indium-113 in, 21:45665 (ORAU-101, pp 81-2)
use of indium-113-labeled DTPA for, of brain, 22:49443
use of indium-113m for, 24:2729
use of iodine isotopes for, effects of tissue depth on, 21:45551
use of iodine-125 and iodine-131 combination for, of thyroid gland function performance of, 21:3392
use of iodine-125, for determining relation of local mineral content to weights of individual bones and total skeleton, 23:8017 (COO-1422-30)
use of iodine-125, mercury-197, and technetium-99 as tracers for, 22:2521 (ORNL-IIC-10(Vol.1), pp 197-232)
use of iodine-125- and -131-labeled hippuran for, in kidneys in children, 21:34730
use of iodine-131 for whole-body, 21:45690
use of iodine-131 for, of brain of man, protective effects of potassium perchlorate on thyroid before, 22:36313
use of iodine-131 for, of human brain, effects of, on electroencephalogram, 23:2896
use of iodine-131 for, of human central nervous system, dose determinations for, 22:43370
use of iodine-131 for, of human central nervous system, dose determinations for, 22:43371
use of iodine-131 for, of liver cirrhosis, comparison of, with use of colloidal gold-198, 21:14696
use of iodine-131 uptake for, of thyroid diseases, 21:8888
use of iodine-131, for determination of size of thyroid, evaluation of errors in, 22:36295
use of iodine-131- or technetium-99-labeled albumin for, of pulmonary blood vessels, 22:23566
use of iodine-131-labeled antibodies for brain, 21:14698
use of iodine-131-labeled antibodies for, of neoplasms, 21:14698
use of iodine-131-labeled carbohydrates for, 22:38367
use of iodine-131-labeled chorionic gonadotropin for, of ovaries of dogs, 23:29646
use of iodine-131-labeled fibrinogen antibody as tracer for, of neoplasms, 21:36638
use of iodine-131-labeled fibrinogen antibody for, 21:36638
use of iodine-131-labeled fibrinogen for, of malignant neoplasms, 22:38404
use of iodine-131-labeled hippuran and mercury-203 for, of human kidneys, 22:38403
use of iodine-131-labeled hippuran for, of x-irradiated dog kidneys, 21:36735
use of iodine-131-labeled macroaggregated albumin for, of lungs of rabbits, 21:36653
use of iodine-131-labeled macroaggregates of albumin for, of human lungs, 22:38399
use of iodine-131-labeled microaggregates of human serum albumin for, of blood circulation in brain, 21:39475
use of iodine-131-labeled oleic acid or triolein for, of abnormal fat absorption, 21:20251
use of iodine-131-labeled Teluidine Blue O for, of parathyroid, 23:10022
use of iodine-132 for thyroid, advantages of, 21:10957
use of iron isotopes and radioisotope-labeled colloids as tracers for bone marrow, 21:45669 (ORAU-101, pp 96-9)
use of iron-59, for estimation of erythrocyte loss in hookworm-infected dogs, 22:28540 (NYO-2147-13, pp 103-20)
use of labeled aerosols for, of respiratory system of dogs and man, 22:38399
use of mercury-197- and -203-labeled chlormerodrin for, of kidneys, comparison of, 23:10026
use of mercury-197-labeled chlormerodrin and technetium-99-labeled pertechnetate for, of human brain, 22:28562
use of mercury-197-labeled chloromerodrin for, of brain of man, 22:2531
use of mercury-203-chlormerodin for, of brain tumors, 21:14697
use of mercury-203-labeled chlormerodrin for, of brain neoplasms, comparison with other methods of, 21:12916
use of mercury-203-labeled chlormerodrin for, of kidney ischemia, 21:14679
use of molybdenum-99 and technetium-99m for, of organs of man, efficiency of, 21:45552
use of multi-detector scanner and technetium-99 for brain, 21:45772(R) (ACRH-27)
use of phosphorus-32 for malignant tumor, method for, 21:39449
use of phosphorus-32 for, of malignant and tuberculous lymphoma, 21:36666
use of phosphorus-32 uptake for, of nodular goiters and thyroid neoplasms, 21:8697
use of plastic- and scintillation counters for, of human body, comparisons of, 22:49420
use of radioactive sodium iodohippurate in, to obtain renograms during pregnancy, 21:1780
use of radioisotope-labeled colloids for, 21:43461
use of radioisotope-labeled compounds in, 21:12927
use of radioisotope-labeled dextran for, of liver and lungs in rats, 22:43388
use of radioisotopes for placental, radiation doses from, 21:6548
use of rhenium-188 in, 21:45664 (ORAU-101, pp 74-7)
use of RISA compared with mercury-197 and mercury-203 for brain scanning, 21:20305
use of selective concentration of radioisotopes for, 21:26476
use of selenium-75-labeled methionine for, of parathyroid adenoma, 21:10919(T) (NP-tr-1490)
use of selenium-75-labeled selenomethionine for, of pancreas, 21:14675(T) (NP-tr-1495)
use of selenium-75-labeled selenomethionine for, of carcinomas of pancreas in man, 22:28576
use of selenium-75-labeled selenomethionine for, of parathyroid adenomas, 21:10968
use of selenium-75-labeled sodium selenite for, of cartilaginous neoplasm, 21:20302
use of selenium-75-methionine for, of pancreas, 21:14700
use of sodium-24 whole-body counting for neutron dosimetry in radiation accidents, 21:39270 (SZS-7/67)
use of split crystal scintillation camera for, of human kidneys, 22:36298
use of strontium-85 and technetium-99 for, of human brain, 22:49447
use of strontium-85 for bone-tumor, in man, 21:36661
use of strontium-85 for whole-body, in diagnosis of bone metastases of mammary cancer, 25:52140
use of strontium-85 for, of bone metastases prior to radiotherapy, 21:20264
use of strontium-85 for, of tumors in skeleton of man, 21:34717
use of strontium-85 for, of vascularization of bone fractures, 21:34684
use of strontium-85, for localization of bone metastases, 21:36633
use of technetium-99-iron complex for, of kidneys of man, 22:14959
use of technetium-99-iron-ascorbic acid-glucose complex for, of kidneys of dogs, 22:45633
use of technetium-99-labeled albumin for, of cardiovascular anomalies, 21:4826
use of technetium-99-labeled albumin for, of placenta, 23:29644
use of technetium-99-labeled pertechnetate for, of brain lesions, 21:34695
use of technetium-99-labeled pertechnetates for, of salivary glands of man, dosimetry and performance in, 22:51778
use of technetium-99-pertechnate for, of brain of man, 22:2531
use of technetium-99-sulfur colloids for, of human liver, 22:51767
use of technetium-99m for, of human brain, 23:6556
use of technetium-99m for, of liver of man, 22:45607
use of technetium-99m-iron complex for, of kidneys of animals and man, 22:33888
use of Thorotrast for, effects of, on erythropoiesis in man, 22:47615
use of three-dimensional image reconstruction for, 22:38390

use of whole-body counters for, 22:47576
use of whole-body, for determination of cesium-137 body burdens of man, 22:25849
use of whole-body, for study of metabolism in man, 22:38405
use of xenon-133 for, comparison with use of x ray, 21:8900
use of xenon-133 for, of blood circulation in human kidneys, effects of cysts on, 22:43385
use of, employing photoscintillation scanning for kidney, liver, spleen, and thyroid, 21:12925
use to determine defects in gold-198, iodine-131, mercury-197, and technetium-99 filled liver phantom, 22:6859
use to determine details of anatomy and function of thyroid gland, application of Spintharicon for visualization during, 22:31121
use to determine distribution of γ-emitting isotopes in man, whole-body, 23:9962
use to study radiation injury in liver after radiotherapy, 21:20354
use with cesium-131 for evaluation of impaired regional myocardial circulation in man, 23:2740(R) (COO-78-174)
use with xenon-133 for diagnosis of brain lesions, 21:39463
uses for detection of atrial calcification, 21:20297
uses for diagnosis, review of, 25:46927
uses of iodine-132 in, bibliography and review on, 23:29601 (ORNL-IIC-4)
uses of radium-224 for intracranial, 21:8708
uses of serial brain, review of clinical, 25:29582
visual examination of scans, reliability of, 24:32054 (COO-78-225)
xenon-133 use in, for blood flow measurements in muscle, 21:22542

RADIOISOTOPE SUBMERSIBLE ENGINE
design and development for use in hydrospace, 21:1518 (AGN-8163(Vol.1))
design and development of, for hydrospace applications, 21:1519 (AGN-8163(Vol.4))
design and development of, for use in hydrospace, 22:16743
development of, program criteria for, 21:233 (AGN-8163(Vol.2))
heat transfer medium for, use of Dowtherm A as, 21:1520 (AGN-8163(Vol.5))
use of radioisotopic heat sources in, for propulsion of small submersibles, 21:19854

RADIOISOTOPES
(See also specific isotopes.)
see also Fission Products
see also Isotope Generators
see also Tracer Techniques
absorbed dose from inhalation of, FORTRAN program for determining, 21:18040 (USNRDL-TR-67-7)
abundance calculations for, computer program for, 23:35251 (RFP-1098)
abundance in Allende, Murchison, Lost City, and Ucera meteorites, (E), 25:40149
abundance of beta-emitting, in USSR near-ground air layer, effects of meteorologic conditions on, 1962 to 1964, 23:17603
accumulation by edible aquatic and marine organisms, tables of, 23:24507 (UCRL-50564)
accumulation by marine organisms, mechanisms of, 25:55154
accumulation by organisms in aquatic ecosystems, effects of stable element content on, 25:55158
accumulation by tumors in relation to diagnosis and therapy, 24:50953
accumulation coefficients for, in plants of fresh and salt waters, 23:17987 (NP-17714)
accumulation in bottom sediments of McNary Reservoir in Columbia River, 23:13740 (BNWL-715(Pt.2), pp 151-79)
accumulation in eggs of marine fish, concentration factors for, 24:34228
accumulation in populations of aquatic organisms, determination of concentration factors for, 22:17002 (UCRL-50347)
accumulation in soil of rice fields, 24:2611
accumulation in tissues of Alaskan animals, 21:22365 (BNWL-SA-993)
accumulation of bone seeking, in fetal and maternal tissues during pregnancy and lactation, 23:24534
activation in man by high energy proton reactions with tissue elements, 21:36552 (AD-636646)
activation in tissues by protons, 21:34560 (AD-636652)
activities from nuclear explosions, relative maximum, 21:10460 (AD-642421)
activities of, calculator for determining standard deviation and optimum conditions in measurement of, 22:14881
activities of, use of semiconductor detectors for measuring low-level, 22:37981 (CONF-670545-, pp 81-7)
activity and radiation purity of, equipment and methods for measuring, 22:4421
activity as function of time, computer method for calculation of, 22:33586 (UCLA-12-640, pp 31-44)
activity calculation from mass, 21:40937(T) (ORNL-tr-1750)
activity coefficients for, computer program for analysis of decay curves, 21:13896 (IS-1501)
activity constants for, tables of, 21:9984
activity counting statistics for, nomogram for, 22:28080
activity data conversion into multigroup β and γ energy sources, computer program for, 23:5443 (AI-AEC-Memo-12693)
activity data from liquid scintillation detectors, system for transfer to punched cards, 22:4448
activity data from liquid scintillation detectors, computer program for calculating, 22:4448
activity distributions of released, in water, performance of calcium sulfate thermoluminescent dosimeters for determining, 23:33532 (AE-362)
activity from electron capture, measurement using K and L x-ray coincidences, 21:13893
activity from liquid scintillation counter data, use of desktop computer for automatic calculation of, 22:40019
activity in labeled compounds, use of desk-top computer for calculation of, 24:4233
activity in marine fish, development of model for calculation of maximum specific, 25:21554
activity in seawater from, calculation of working limits for, 21:32353
activity laws for, review of, (T), 22:27393
activity measurement of, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
activity measurements in parent-daughter system of, (E/T), 22:7745
activity measurements in presence of background, low-level, 21:3295
activity measurements of short-lived, using constant pause intervals, 22:36036
activity measurements of, appraisal of correlation technique for low-level, 23:38269
activity measurements of, detector characteristics for low-level, 24:14261
activity measurements of, discrimination from natural background due to radioactive aerosols, 22:51187
activity measurements of, liquid Cherenkov detectors for, 24:14282
activity measurements of, microweighing errors in, 25:23907 (CEA-R-4169)
activity measurements of, nomograph for determining optimum time for, 23:35471
activity measurements of, reliability appreciation of low-level, 23:35472
activity measurements of, review of USSR methods for, 24:16840(T) (UCRL-Trans-10429)
activity measurements of, review of USSR methods for, 21:5823
activity measurements of, use of slide projector as inexpensive automatic sample changer for, 23:17763
activity measurements on, 25:26185
activity measurements on α-emitting, survey of methods for absolute, 23:5945 (NAS-NS-3112)
activity measurements using γ-γ coincidence method, equipment for, (E), 22:5867 (CEA-R-3260)
activity measurements using lithium-drifted germanium detectors, relative gamma, 25:26191
activity measurements using multichannel time analyzers, statistical error in, 21:1593
activity of beta-emitting, corrections for absorption in windows of ionization chambers in absolute measurements of, 21:32379(T) (AEC-tr-6719, pp 90-2)
activity of β—γ emitting, apparatus for digital evaluation of dead time, random coincidences, and background corrections in coincidence measurement of, 22:43062
activity of carrier-containing, 4π β-γ coincidence methods of determining, 22:45137
activity of fission-product, representation as Laplace transform of decay-constant distribution functions, 21:38378 (USNRDL-TRC-67-25)
activity of gaseous beta-emitting, effects of end losses of ionization chambers on absolute measurement of, 21:32381(T) (AEC-tr-6719, pp 100-2)
activity of mixture of, dead time correction for determination of, 23:4810
activity of positron-emitting, measurement using gamma coincidence scintillation spectrometers, 21:33986
activity of samples of, development of electronic equipment for evaluating, 21:26271 (KFK-276)
activity of soft-β-emitting, effects of phosphorescence and after-pulsing in determining absolute, 22:44997
activity of systems labeled with, differential equations for determining specific, 22:51184
activity of, accuracy of equipment used in measuring, 21:41217
activity of, β-γ coincidence detector with computer for absolute measurement of, 23:13981 (CEA-CONF-1190)
activity of, coincidence resolving time of coincidence circuits used for measuring, 22:51235
activity of, computer progr1m for least-squares analysis of gamma spectra, 21:19295 (PHS-999-RH-21)
activity of, computer-controlled system for measurement of residual, 23:1929(R) (COO-1265-67)
activity of, Curie vs half-life plot for calculating specific, 22:18331
activity of, dead-time losses in fast-slow coincidence systems used for measuring, 21:39310
activity of, description of detectors and circuits for determining, 21:6206
activity of, effects of weighing accuracy on measurements of, 21:5824
activity of, efficiency of internal proportional detector for absolute measurement of, 22:14776
activity of, efficiency-independent method for gamma spectroscopy for determining absolute, 23:29210
activity of, error statistics in measuring, 23:621
activity of, figure of merit for comparing sample counts for, 21:26078
activity of, instantaneous plotting of scintillation spectrometer output for determining, 21:43272
activity of, iterative procedure for determining, in presence of other activity, (E/T), 22:7746
activity of, quality control of methods of measuring, 21:2995
activity of, selection of measuring conditions in two-channel, 21:41236
activity of, sensitivity of equipment for measuring low, 22:2387
activity of, standards for, 23:4785
activity of, use of 4π β-γ coincidence method for absolute measurement of, 21:39187 (RISO-142)
activity of, use of β—γ coincidence method with single thallium-activated sodium iodide detector for absolute, 22:2370
activity of, use of scintillation detectors in coincidence circuits for absolute measurement of beta—gamma, 22:2373
activity standardization for, international intercomparison for, 21:40473(R) (PR-P-74)
activity standardization using gravimetric sampling, 21:17318(R) (AECL-2659)
activity standards, 21:17340(R) (AEET-267)
addition to foods for analysis, effects of, on food, 22:43220
administration of, apparatus for controlling cerebrospinal fluid pressure during subarachnoid, 23:45584
administration of, radiation dose to hands of medical personnel during, 25:49197
administration to man, equations and tables for calculation of absorbed dose to tissues following, 24:50918
adsorption of, by epoxide paints and lacquers, 21:3405
aerospace applications of, survey of, 21:8540
alpha-emitting, removal from heavy equipment at Marcoule reactors, 24:7813 (CEA-R-3785)
analysis and control of standards of, using beta and gamma spectrometry, 21:5822
analysis for impurities by isotope dilution and γ spectrometry, 23:9306 (ORNL-4343, pp 62-84)
analysis of high-specific-activity, for carrier and other nonisotopic impurities, 22:25243 (UJV-1916)
analysis of low-activity, coincidence G—M or proportional—scintillation detector system for, 23:11782
analysis of mixture of gamma-emitting, computer program for analysis of pulse-height distributions for, 21:27897 (USNRDL-TR-67-46)
analysis of mixture of, using time-dependent gamma spectrometry, 21:28243
analysis of mixtures of, by gamma or beta spectroscopy, 22:14418 (CNEA-205)
analysis of mixtures of, computer method for gamma spectral, 23:11830
analysis of mixtures of, computer program for least squares analysis of time-dependent gamma pulse-height spectral, 21:14151 (USNRDL-TR-67-3)
analysis of photoscans of, by digital computers, 21:10995
analysis of, ASTM method for, 25:29005
analysis of, in biological materials, gamma spectrometers for, 22:4461 (UCRL-70544)
analysis of, in biological materials, probabilistic methods for evaluating sampling programs for, 21:10249 (DP-MS-66-55)
analysis of, spectrographic, 22:16356 (KR-116)
analysis of, use of computer for quantitative, 21:24297(R) (ORO-2401-9)
applications in biomedical sciences, research on, 24:48600 (BNWL-1307(Pt.2), pp 45-9)
applications in science and industry, conference on, 21:45318
applications of, textbook on, 23:52318
assay of, development of calorimeters for, 21:36364
atmospheric contamination from, Pacific Northwest Laboratory research on, 21:43062
atomic masses of, 1969 tables on, 24:41269
attachment to atmospheric aerosol particles, effects of particle size on, 21:41032
availability and price of, for use in electric energy generators, 22:6543
availability, cost, and properties of, for space vehicle propulsion, 22:14733
behavior in biological and environmental systems, detectors for determining, 21:36368
behavior in Clinch River sediments, 21:3174(R) (ORNL-3941)
behavior in coolant during normal operation of LMFBR, analysis of, (E/T), 23:13520 (AI-AEC-12721, pp 83-109)
behavior in hydrological system under Hanford liquid waste disposal site, 21:24185 (ISO-SA-32)
behavior in sewers and water purification plants, 21:28078 (BMwF-FBK-66-46)
behavior in soils, relations to water movement, 22:6448
behavior in surface waters in Austria, 21:15997
behavior in surface waters, effects of current movements, dilution, and sedimentation on, 21:24187
behavior in tropical rain forest, ecological evaluation of fallout, 22:47496(R) (PRNC-103)
behavior of, discharged to ground in a gas, 21:8565 (ORNL-4007, pp 1-41)
behavior on ground of, produced by nuclear explosions, 21:30543 (NP-16525)
beta activity of, liquid scintillation technique for simultaneous counting of doubly labeled samples, 21:24198
beta activity of, performance of Geiger-Mueller counters and scintillation counters for counting of, 21:14433 (NP-16483)
beta activity of, use of coincidence scintillation spectrometers for measuring low-level, 21:16162
beta decay of incorporated, chemical effects from, 24:31436
beta spectra from, effects of backscattering on shape of, (E), 21:25545
bibliography of nuclear science literature on, from eastern countries, 23:26313 (AED-C-12-18)
bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
bibliography on content of, in food stuffs, 24:46596
bibliography on entomological research using, 24:4675 (STI/PUB-21/36(Vol.4))
bibliography on industrial uses and production of, 24:7589 (ORNL-IIC-22(Pt.3))
bibliography on industrial uses of, in mechanical engineering, 23:38184 (PEL-189)
bibliography on production and industrial uses of, 24:22878 (ORNL-IIC-22(Pt.4))
bibliography on production and industrial uses of, 25:8428 (ORNL-IIC-30(Pt.3))

bibliography on production and industrial uses of, 25:48732 (ORNL-IIC-37(Pt.1))
bibliography on production and industrial uses of, Oct. through Dec. 1970, 25:26427 (ORNL-IIC-30(Pt.4))
bibliography on transport through food chains and concentration by fish, invertebrates, and mammals, 25:42315 (ORNL-NSIC-89)
bibliography on use in tumor studies, 23:26820 (NP-16780(Vol.3))
bibliography on use of, in biological research, 21:20030 (TID-3585)
bibliography on use of, in gastroenterology, 21:3415 (AED-C-10-05)
bibliography on uses in industry and research in eastern countries, 1967 to 1969, 25:2399 (AED-C-12-22)
binding by calcium and sodium montmorillonites and kaolin in simulated fluids of gastrointestinal tract of ruminants, 24:7833
binding energies and atomic masses for Z = 55 through 63, (E), 23:21372
bioaccumulation on granitic outcrops of Georgia Piedmont, 21:19759 (NP-16464)
biochemistry of, effects of incorporation into organic compounds on, 24:50670
biological half-life in irradiated rodents, equipment for determining, 21:45450 (BNWL-481-4, pp 27-30)
book: 1968 Book of ASTM Standards with Related Materials, Part 30, 22:37678
book: Advances in Tracer Methodology, Vol. 4, 22:16470
book: An Introduction to Radioactivity for Engineers, 23:4797
book: Analytical Toxicology of Industrial Inorganic Poisons, 22:18734
book: Application of Radioactive Isotopes in Chemical Kinetics (Kinetic Isotopic Method), in Russian, 24:38868
book: Atmospheric Scavenging of Radioisotopes, 24:39082
book: Atomic Radiation and Its Effects on Health, 21:11111
book: Autoradiographic Techniques, 23:16248
book: Bases of Nuclear Medicine, 23:6606
book: Chemical Analysis of Radioactive Materials, 22:4060
book: Chemical Applications of Radioisotopes, 23:35060
book: Clinical Nuclear Medicine, 24:46635
book: Clinical Radioisotopic Diagnostics, 23:5005
book: Code of Practice against Radiation Hazards, 22:4628
book: Coprecipitation and Adsorption of Radioactive Elements, 21:19591(T) (AEC-tr-6716)
book: Course on Radiation Protection in Industry, 23:840
book: Decay Schemes of Radioactive Nuclei, A < 100, 21:29879
book: Delayed Effects of Bone-Seeking Radionuclides, 23:38429
book: Diagnosis and Therapy with Radioisotopes, 23:50610
book: Diagnosis and Treatment of Deposited Radionuclides, 23:24624
book: Economic Effectiveness of using Radioactive Isotopes in Industry (In Russian), 25:13174
book: Electronic Devices and Circuits Provided with Radioactive Isotopes, 21:30758
book: Elimination of Radioactive and Stable Metal Ions. Therapeutic Principles, 23:35709
book: Gamma-Radiation from Radioactive Isotopes and Fission Products; Theory and Tables, (E/T), 22:18203
book: Handbook of Applied Radioactivity, in German, 23:17501
book: Handbook of Radioactive Nuclides, 24:50917
book: Induced Radioactivity, 23:40158
book: Industrial uses of Radioisotopes, 22:47297
book: Isotope Techniques in the Hydrologic Cycle, 21:36126
book: Isotopes and Radiation Technology, 23:4886
book: Isotopes Available for the Medical Practitioner, 23:5004
book: Isotopes in Biology and Medicine, 25:21538
book: Isotopes in Experimental Pharmacology, 22:2489
book: Isotopes: Bibliographies and Reference Tables. Volume III, 25:59697
book: Isotopes: Reference Tables. Volumes I and II, 25:20264
book: Manual of Radioisotope Production, 21:5908 (STI/DOC-10/63)
book: Measurement of Radioactive Nuclides, in German, 25:44
book: Methods of Preparing and Storing Labeled Compounds, 23:335
book: Methods of Radiochemical Analysis, 21:14172
book: Nuclear Medicine, Scintigraphic Diagnosis, 24:7959
book: Nuclear Medicine-a Scandinavian Textbook, 22:45635
book: Principles of Nuclear Medicine, 22:49411
book: Principles of Radioisotope Methodology, 21:12373
book: Problems of Marine Biology, 23:43718
book: Problems of Protection in Industrial Utilization of Radioelements, 25:18996
book: Protection Against Ionizing Radiation : A Manual, 22:40730
book: Radiation Dosimetry of Incorporated Radioactive Substances, 24:48549
book: Radiation Techniques, Vol. 1 (In Russian), 22:19076
book: Radioactive Isotopes and the Body, 25:23946(T) (AEC-tr-7195)
book: Radioactive Isotopes and the Organism, 24:573
book: Radioactive Isotopes in the localization of tumors, 24:34470
book: Radioactive Nuclides in Medicine and Biology, 23:6502
book: Radioactivity in Medicine, 25:26790
book: Radioactivity Measurements. Practical Manual on the Uses of Nuclear Radiation, 25:55020
book: Radioisotope Experiments for Schools and Colleges, 21:43202
book: Radioisotope Instruments in Metallurgy, 22:36050
book: Radioisotope Measurement Applications in Engineering, 21:28176
book: Radioisotope Measurements in Nuclear Medicine, 24:19331
book: Radioisotopes for Aerospace, 21:8539
book: Radioisotopes for Internal Application in Diagnostics and Therapy, 22:28620
book: Radioisotopes in Foundation Construction and Underground Installations, 22:37934(T) (AEC-tr-6933)
book: Radioisotopes in Foundation Construction and Underground Installations, 21:28177
book: Radioisotopes in Medicine: In Vitro Studies, 23:11943 (CONF-671111)
book: Radioisotopes in the External Environment and in Organisms (Russian), 25:24010
book: Radioisotopes in the Human Body: Physical and Biological Aspects, 23:7953
book: Radioisotopic Methods for Engineering Geology and Hydrology Studies (In Russian), 22:37944
book: Radionuclide Applications in Neurology and Neurosurgery, 25:547
book: Radionuclides in Water. Their Distribution, Application, Measurement, and Removal, in German, 23:40866
book: Radionuclides, (E), 23:5809
book: Recommendations on the Use of Radioisotope Methods for Determining the Physico-mechanical Properties of Soils, 25:42176
book: Reports on Radiation Protection, 23:4972
book: Table of Isotopes, 21:4203
book: Table of Specific Gamma Ray Constants, 24:33113
book: Textbook of Practical Studies in Radiochemistry, in Russian, 23:28935
book: The Physics of Radiology, 24:46646
book: The Radioelements. Production, Dosage, Applications, 21:16078
book: The Technical Applications of Radioactivity, Vol. I, 21:28175
book: The Year Book of Radiology, 1969, 23:43815
book: Tracing Life Processes with Radioisotopes: Experiments in Biological Science, 22:16973 (NYO-3247-4)
book: Use of Radioactive Isotopes in Hydraulics and Hydrological Studies, 21:28093
book: Use of Radioisotopes for Control in Development of Petroleum Deposits, (in Russian), 23:4743
book: Use of Radioisotopes in Biological Studies, 21:20021 (CMN-Pub-2/66)
book: Water Deactivation Procedures, in Russian, 23:45389
book: Wear Determination by Radioisotope, 23:11726
catalog of, 22:23083
certification of standardized, requirements for, 23:2515 (ICRU-12)
characteristics of, development of standards for measuring, 21:17790
chemical and physical properties of, tables on, 24:52632
chemical form in Columbia River water and reactor effluent, ion exchange study of, 21:22364(R) (BNWL-235-2)
chemical reactivity in reactor containment system, 22:12148
chemistry of, 24:19035
choice of optimum, for radiometric density measurements, 25:23901
circulation in natural reservoirs, measurement of, 21:25980
classification of, according to radiotoxicity per unit of activity, 21:1761
classifications of, review of data on toxicity for, 23:45763
clearance in muscles, effects of injuries of blood vessels, head, and spinal cord on, 23:45629
complexes with organic compounds in soils, 24:5659
computer applications to, used in nuclear medicine, review of, 21:8867
concentration and identification in coolant water of IRR-1, 21:30253 (IA-1077)
concentration in aquatic organisms, mathematical formulae for, 21:22370
concentration in biological materials, hazards from, 21:18016
concentration in cooling system of long-lived, energetic, gamma-emitting, 21:23605(R) (LA-3650)
concentration in cooling system of short-lived, biologically hazardous, 21:23605(R) (LA-3650)
concentration in environment, methods for predicting maximum permissible, 24:39467 (RLO-2225-T-1-1)
concentrations and doses, international atlas of basic standards for measuring, 23:2842
concentrations in Windscale Advanced Gas-Cooled Reactor fuel elements of, listing of, 23:23911 (JNPC/SWP/N-40 and (Amend.1))
conference on applications of, Japan, Nov. 13 to 16, 1967, 22:30772 (CONF-671112)
conference on applied radioactivity, Leipzig, Oct. 11 to 14, 1966, 21:40935 (CONF-661044)
conference on contamination of environment by, 22:19305
conference on effects of decay and transmutation of incorporated, on living cells, 24:31903 (STI/PUB-183)
conference on industrial and geophysical uses of, Prague, Nov. 21 to 25, 1966, 22:14678 (STI/PUB-142)
conference on industrial and research uses of, Rio de Janeiro, Brazil, June 23 to 27, 1970, 25:26436
conference on industrial uses of, New South Wales, Australia, Oct. 25 to 27, 1967, 22:47297
conference on industrial uses of, Poznan, Poland, November 1968, 25:2141
conference on industrial uses of, Rome, June 23 to 24, 1966, 22:8305
conference on innovative applications of, Dallas, Texas, April 22 to 23, 1971, 25:51711 (CONF-710428)
conference on metrology of, 22:6544
conference on production technology for, Oak Ridge, June 2-3, 1970, 25:46525 (CONF-700646)
conference on radiation protection and dose control aspects of industrial uses of radioisotopes, Rome, Italy, March 28 to 29, 1969, 24:20953
conference on research uses of, Budapest, Hungary, Nov. 12 to 13, 1969, 24:36517
conference on standardization of, Vienna, Oct. 10 to 14, 1966, 22:14677 (STI/PUB-139)
conference on transport of fallout, through food chains in arctic regions, 25:37776 (CONF-690527)
conference on use in diagnosis of diseases of kidneys and urinary tract, 24:34443
conference on use in medicine, 24:50873 (CONF-691212)
conference on uses in biology and nuclear medicine, 25:13482 (CONF-661071)
conference on uses in diagnosis and medical research, 25:11118
conference on uses in medical scintigraphy, 23:48089 (STI/PUB-193(Vol.2))
conference on uses in pulp and paper industry, Helsinki, Oct. 9 to 13, 1967, 23:47713 (STI/PUB-202)
conference on uses of, in hydrology, Vienna, Mar. 9 to 13, 1970, 25:262 (STI/PUB-255)
conference on uses of, in hydrology, Vienna, Nov. 14 to 18, 1966, 22:19048 (STI/PUB-141)
conference on uses of, in nuclear engineering, Chicago, Nov. 30 to Dec. 1, 1970, 25:44550
conference on uses of, in pharmacology, Geneva, Sept. 20 to 23, 1967, 25:24247
conference on, May 13 to 15, 1969, Tokyo, Japan, 24:31362
conference on, Nippon Toshi Center, May 1966, 22:28011 (CONF-660503)
conference on, Radiation Research Society, 24:6029
container and mounting for, design of, 23:33339(P)
container and packaging for, design of, 23:7719(P)
containers for shipping, design of Types A and B, 23:4795 (AERE-R-5871)
containment materials for, chemical integrity of graphitic, 21:32338 (SC-CR-67-2595)
containment vessel materials for, chemical integrity in rocket launch abort environments of, 23:9264
contamination in cadavers, hazards from, 21:36616
contamination in milk, 21:395
contamination of environment by fallout, 23:17998(T) (AEC-tr-7030)
contamination of food by, bibliography on mechanisms of, 25:16071 (AED-C-2-10)
contamination of food-producing, metabolic and toxic aspects of airborne fallout, 23:22299
contamination of personnel, ICRP report on dose to tissues following internal, 25:16148
contamination of ruminants by, from nuclear explosions or nuclear reactors, review of, 21:28460
contamination of surface waters by, from industrial sources, 21:8763
content and behavior of artificial and natural, in world's oceans and seas, 22:51122
content and distribution in body of man, use of color-rescanner for determining, 21:41442
content and distribution in Sargasso Sea to 4100 meters in depth, 24:19113
content and distribution of fallout, natural, and reactor produced, in Hudson River estuary, 25:55160
content and distribution of underground nuclear explosion-produced, in ground waters, 24:27270
content and heat generation of, in calcined waste, 21:10584 (CONF-660208-, pp 623-41)
content and source of, in animals, plants, and surface waters at Amchitka Island, Alaska, during 1969 and 1970, 25:52045(R) (NVO-269-11)
content in aerosols and dusts near high-energy proton accelerators, 22:1545
content in aerosols, use of thallium-activated sodium iodide gamma spectrometer for determining, 21:39315
content in air, fish, milk, vegetation, and water of Savannah River plant environs, 1967, 21:43055(R) (DPST-67-30-2)
content in algae in seawater, 21:16305
content in atmosphere and hydrosphere, 23:9574
content in atmosphere from earth's crust, 21:6068
content in atmosphere in environs of Hanford during 1965, 21:34649 (BNWL-316(App.))
content in atmosphere, rainwater, and seawater during BOMEX, 24:39060 (BNWL-1307(Pt.1), pp 60)
content in Belgian milk during 1969, 25:37562 (NP-18809, pp 4.1-6)
content in bone, fecal, milk, plant, and water, 21:20112 (UCLA-12-612, pp 77-93)
content in bottom sediments in Columbia River, buffering effects of, on levels of waterborne radioisotopes, 23:13740 (BNWL-715(Pt.2), pp 151-79)
content in Chambal river near Rajasthan Atomic Power Plant, maximum permissible, 22:51558 (AEET/HP/R-13)
content in Clinch and Tennessee River bottom sediments, 21:16028 (ORNL-3721(Suppl.2A))
content in Clinch and Tennessee Rivers, 21:16307
content in coastal and surface waters in British Isles, 22:16728 (FRL-1)
content in Columbia River and northeast Pacific Ocean, 21:16090
content in Columbia River from disposal of radioactive wastes at Richland, Wash, 22:18964 (BNWL-SA-1606)
content in Columbia River water, relations with chemical, mineral, and physical characteristics of streambed sediments, (E), 25:57561 (TID-25786)
content in commercially available industrial products, methods for controlling and monitoring radiation hazards to population from, 25:29320

content in deep ocean-dredged silts, 1968 measurements of, 24:36435(R) (NYO-2174-113)
content in drinking water, determination of maximum permissible, 21:36583 (SZS-3/67)
content in drinking water, public health hazards from, 23:2417
content in environmental water at nuclear power stations, development of underwater gamma spectrometers for measuring, 21:32445
content in fallout particles, calculation of, 21:28098 (GA-7598)
content in fish, review on effects of environmental factors and species type on, 25:42249
content in food chains, review of radiation protection standards for, 21:22419
content in ground waters of Bukhara—Karshin artesian basin, (E), 25:10698
content in ground-level atmosphere in Alaska, Brazil, and Richland, Wash., 1962 to 1968, 22:25523 (BNWL-SA-1739)
content in ground-level atmosphere, seasonal variations in, 22:51101
content in Indian soils, gamma spectrometric measurements of, 25:57567
content in liver, effects of, on scanning techniques, 21:41441
content in long-range fallout from Schooner Event, data tabulation on, 25:26404 (PNE-527)
content in low-level environmental samples, development of two-crystal γ-scintillation spectrometer for determining, 22:6795(R) (COO-414-6)
content in lungs and lymph nodes, maximum permissible, 23:12075(T) (UCRL-Trans-10295)
content in lungs of man, efficiency of mosaic array of thallium-activated sodium iodide detectors for determining, 23:612 (KFKI-27/1968)
content in marine organisms off Puerto Rico, 21:16303
content in near-ground level air in Germany, factors affecting, 22:35945
content in near-shore sea sediments, 23:26381 (BARC-376)
content in New Zealand rainwater, 21:43057(R) (HASL-183)
content in open reservoirs of Moldavian SSR, 21:28085
content in patients following Thorotrast injection, 21:22530
content in plants native to Colorado, effects of sampling dates and sites on, 21:41414
content in rainwater, use as air mass movement indicators, 21:6082
content in raw and sand filtered water supplies, (E), 22:25580
content in sand materials used for filtration of water supplies, (E), 22:25580
content in sea water, 21:8478(T) (AEC-tr-6641, pp 192-3)
content in seawater, 22:45207
content in seawater in North Pacific Ocean, effects of depth and latitude on, 23:49960 (BNWL-1051(Pt.2), pp 27-32)
content in seawater, design of sensitive γ radiation detectors for determining, 22:2256
content in Sedan crater soil, 23:45434 (UCRL-71867)
content in soil, spectrometric method for measurement of, 25:21162
content in soils near nuclear installations, estimation of, 21:41418
content in soils, effects of, on plant nutrition, bibliography on, 21:24298 (PAEC(A)IN-655)
content in stratosphere over Australia and North America from Jan. 1969 to June 1970, (E), 25:16114 (HASL-239, pp II.1-129)
content in stratosphere over Eilson Air Force Base, Alaska, during Oct. 1966 to June 1967, 22:21204 (HASL-184, pp II.26-86)
content in stratosphere over Mildura, Australia, during Oct. 1966 to June 1967, 22:21204 (HASL-184, pp II.26-86)
content in stratosphere over Natal, Brazil, during Oct. 1966 to June 1967, 22:21204 (HASL-184, pp II.26-86)
content in stratosphere over Panama Canal Zone, during June to Oct. 1966 to June 1967, 22:21204 (HASL-184, pp II.26-86)
content in stratosphere over San Angelo, Texas, during Oct. 1966 to June 1967, 22:21204 (HASL-184, pp II.26-86)
content in stratosphere over western hemisphere and Australia during 1969, 24:36408(R) (HASL-227)
content in stratosphere, study of recirculation in air samplers for monitoring, 23:17819 (HASL-194)
content in surface waters, use of underwater γ spectrometer to measure, 22:10373
content in tissues of smokers and nonsmokers, 21:6529
content in underground media, calculation of nuclear explosion induced, 22:21225 (HNS-1229-54)
content in waste waters and exhaust air, methods for measuring, 22:4288
content of air and water for occupational exposure, maximum permissible, 23:2827
content of air, effects of thermal fusion of uranium-235 on maximum permissible, 24:4640
content of air, tables for, 23:4927(R) (HASL-200)
content of airborne dusts in Japan during 1969 and 1970, 25:37806 (NIRS-RSD-29)
content of alpha-emitting, in marine organisms, 25:13394(R) (RLO-2099-1)
content of animals following inhalation of aerosols, methods for determining, 24:2645(T) (CEA-tr-R-1964)
content of aquatic ecosystem following nuclear excavation in relation to maximum internal radiation dose to man, 24:9827 (CONF-690303-, pp 75-94)
content of aquatic ecosystems in relation to public health hazards, review of, 24:7793
content of artificial and natural, in atmosphere over Indian and Pacific Oceans, 1959 to 1960, 21:8455(T) (AEC-tr-6641, pp 32-5)
content of artificial and natural, in organisms and water of Atlantic and Pacific Oceans, 23:24577 (A-AC-82/G/L-1254)
content of artificial and natural, in rain water over Black Sea, 21:8454(T) (AEC-tr-6641, pp 36-42)
content of atmosphere from stack release following nuclear accidents, measurement of, 23:31724 (KFK-868)
content of atmosphere in relation to agricultural contamination, review of, 23:22301
content of atmosphere over Western Hemisphere during 1970 and 1971, 25:46819 (HASL-243, pp II.1-146)
content of atmosphere, milk, and precipitation in North and South America during 1967, 22:28517
content of atmospheric precipitation in Euratom community during 1969, 25:37797 (EUR-4605)
content of barrel cactus in relation to ecology and elevation, 22:40688
content of beta-emitting, in Canadian, Mexican, South American, and US airborne particulates and precipitation, Nov. 1967, 23:26373
content of biota, sediments, and water in Columbia River, 23:9906(R) (RLO-1750-28)
content of birds on Amchitka Island, Alaska, 24:34178(R) (BMI-171-125)
content of blood plasma, feces, milk, and urine in cattle following ingestion of nuclear debris from Schooner Event, 25:37727
content of body fluids and tissues, methods for determining, 22:12779
content of bone-seeking, in air and water in environs of plutonium industry, 25:8674(T) (LF-tr-41, pp 199-220)
content of bones, feces, plants, soils, and water, 22:25800 (UCLA-12-668, pp 37-58)
content of caribou and reindeer in Alaska during October to November 1966, 22:40690
content of Columbia River near Hanford, 23:20175 (BNWL-778-10)
content of Columbia River organisms, seasonal variation of, 24:31885 (BNWL-1050(Pt.2), pp 2.13-15)
content of components of ecosystem of Columbia River Estuary and adjacent Pacific Ocean, 24:14443(R) (RLO-1750-54)
content of consumer products, guidelines for protection of public against hazards of, 24:46618
content of cosmogenic, in atmosphere and seawater, tracer studies of atmospheric processes using measurements of, 25:37499 (BNWL-1551(Pt.2), pp 35-45)
content of cosmogenic, in atmosphere, rainwater, and seawater, use for tracer studies of atmospheric and oceanic mixing, 25:48646 (BNWL-1551(Vol.2)(Pt.1), pp 130-4)
content of cosmogenic, in hail and rain, cloud dynamics studies using measurements of, 25:37500 (BNWL-1551(Pt.2), pp 63-4)
content of daily diet in California during May to August 1966, 22:40690
content of daily diet in Connecticut during July to December 1966, 22:40690
content of desert big horn sheep in environs of Nevada Test Site during 1957 to 1964, 21:45611 (CONF-670724-1)
content of diet in California during 1965, 22:36257
content of diet of children and young adults in United States, federal surveillance network for measurement of, 22:51570 (NP-17401)
content of diet of man in California during 1966 to 1967, 22:28506
content of diet, human urine, river sediment, soil, and water in Japan during 1965 to 1968, 23:6437 (NIRS-18)
content of earth's mantle, relations with earth crust formation process, 24:25118
content of environment and foodstuffs in relation to man, 25:57994
content of environment in Richland, Washington area, criteria for computing, 23:33703 (BNWL-1019)
content of environment of Atlantic-Pacific Interoceanic canal, radiochemical method for analyzing cesium-137, plutonium-239, and strontium-90, 24:29721 (BMI-171-29)
content of environment of Hanford in Richland, Wash., during December 1968, 23:29463 (BNWL-778-12)
content of environment, administrative responsibilities for, 24:7918
content of environment, effects on human populations, 24:25431
content of environment, from releases by nuclear industry, review of, 24:7829
content of environment, large-scale collection of data on, 24:2599 (NYO-4039-1, pp 113-20)
content of environment, need for standard methods of evaluating, 22:28478
content of environment, standards for maximum permissible, 23:6435 (BNWL-SA-2049)
content of environmental monitoring samples, methods for determination of, 22:43301 (AERE-R-5474)
content of fallout deposition at Savannah River Plant during 1968, 23:31779
content of fallout, in atmospheric aerosols, measurements of, 24:48179 (BNWL-1307(Pt.2), pp 20-7)
content of fetal and maternal tissues in pregnant cattle following ingestion of nuclear debris from Schooner Event, 25:37727
content of food and water, methods for determining, 24:23187
content of food chains from fallout, effects of, on animals for human food, 22:19297 (CEA-R-3306)
content of foods in Kiev region of Soviet Union, 25:57987
content of gastrointestinal tract following ingestion, development of mathematical model for calculating activity from, 23:9940 (ORNL-4316, pp 271-94)
content of geological deposits, uses and significance of, 24:25116
content of ground water near Project Rulison chimney, 24:48544 (SWRHL-96)
content of heavy, in spent fuels and gaseous wastes from fast and thermal reactors, relations with burnup, (E), 25:21321
content of helophyte plants, measurement of, 24:41791
content of hot spring waters at Misasa Spa, Japan, 25:26743
content of human aquatic food chain in relation to radiation dose and hazards to man, establishment of MPC for, 25:26747
content of human body, standards for in Italy for maximum permissible, 25:8698
content of human bones, diet, and milk during 1965 in comparison to Federal Radiation Council estimates, 22:40705
content of human diet in California during 1965, 22:23522
content of human diet in California during 1966, 22:23520
content of human diet in Connecticut during 1966, 22:28495
content of human diet in Netherlands, 22:33817 (RA-32)
content of human diet in United States during 1965, 22:28458
content of human diet in US during 1965, 22:28508
content of human food, correction factor for children for calculation of maximum permissible, 25:24182
content of human tissues in various regions of USSR, comparison of artificial and natural, 24:21057(T) (ANL-Trans-802)
content of inhaled air and drinking water of man following occupational exposure, maximum permissible, 22:51651
content of inhaled air and drinking water of personnel, standards for maximum permissible concentrations of, 22:19330 (NP-17180)
content of institutional children's diets in USA during October to December 1968, fallout, 23:45744
content of laboratory personnel following accidental inhalation, statistical analysis of, 23:24648
content of licensees of USAEC during 1957 to 1966, statistical analysis of internal, 23:24646
content of long lived, in fallout from Oct. 1961 Russian nuclear explosion, 22:42878
content of low-activity, in environmental and tissue samples, design of gamma spectrometer for quantitative measurements of, 25:24075(R) (ORO-2412-35)
content of lungs and lymph nodes of man, evaluation of biological model for determining maximum permissible, 22:33810 (CEA-R-3382)
content of man, 23:29310 (AEEW-M-800)
content of man, comparison of ICRP and MIRD methods for calculating maximum permissible, 25:55201
content of man, computer program for calculation of maximum permissible, 25:21702
content of man, evaluation of assumptions and methods used in calculating maximum permissible, 25:55254
content of man, kinetic studies for determining maximum permissible, 24:548
content of man, use of interspecies correlations to estimate radiation guides for maximum permissible, 22:51305 (LA-3848, pp 75-96)
content of marine ecosystems, design of model for compartmental analysis of, 22:10750
content of marine organisms, 23:12125
content of marine organisms in Amchitka, Alaska, 25:16073(R) (BMI-171-113)
content of marine organisms, sea water, and sediments in Adriatic Sea during 1965 and 1966, 23:9902(R) (NP-17646)
content of marine organisms, seawater, and sediments in Belgium, neutron activation analysis of, 24:7781
content of marine protein concentrates and seafood in relation to radiation dose to man, 23:31737
content of milk in North and South America during 1966, 22:28495
content of milk in North and South America during 1966, 22:28519
content of milk in North and South America during 1966, 22:28526
content of milk in North and South America during 1966 and 1967, 22:28514
content of milk in North and South America during 1966, 22:28502
content of milk in United States during 1965, 22:28458
content of milk in United States during 1967, 22:28510
content of milk in United States during April to June 1967, 22:28506
content of milk in United States during Jan. to March 1967, 22:23515
content of milk in United States, federal surveillance network for measurement of, 22:51570 (NP-17401)
content of milk in western hemisphere during January 1970 through December 1970, 25:44795
content of milk on global scale, hazards from, 25:16086
content of milk, use of gamma spectrometer to measure, 22:28503
content of mourning doves in Nevada Test Site environs, 21:45611 (CONF-670724-1)
content of mule deer in environs of Nevada Test Site during 1957 to 1964, 21:45611 (CONF-670724-1)
content of natural gas in relation to human exposure from domestic use, simulated studies of, 24:23147 (SWRHL-82, pp 585-94)
content of natural gas supplies, use of threshold limit values in establishing standards for, 25:55198
content of natural waters, role of aquatic plants in, 25:2547
content of natural, in components of scintillation detectors, effects on gamma detection efficiency, 22:2367
content of natural, in volcanic rocks from throughout world, (E), 24:22783

content of nuclear explosion-produced, in atmosphere, effects of altitude and latitude on, (E), 23:49945 (BNWL-1051(Pt.2), pp 92-102)
content of nuclear plant environment in United Kingdom, Government White Paper on measures for protection against, 24:12101
content of organisms in bottom of Columbia River, 22:10740 (BNWL-480, pp 153-93)
content of pasteurized milk in California, Oregon, and Washington during October to December 1967, fallout, 23:12080
content of pasteurized milk in Colorado, Florida, Oklahoma, Tennessee, and Texas during October to December 1967, fallout, 23:12086
content of pasteurized milk in United States during 1967 to 1968, monthly averages of fallout, 23:12080
content of plants and soil in Germany during 1968, effects of fallout on, 24:46592 (SZS-10/70)
content of plants infected by pathogens or symbionts, 22:12798
content of plants, use of beta activity for determination of, 22:45540
content of seawater in Atlantic Ocean near Barbados, W.I., effects of depth on, 23:49961 (BNWL-1051(Pt.2), pp 32-5)
content of seawater, maximum permissible concentrations for contribution of waste disposal to, 23:50727
content of single, in multiple-isotope sources, estimation of, 22:35996 (AD-662192)
content of snowmelt water, effects of litter, moss and vegetation of bogs on, 22:25833
content of soils, significance of fallout, to agricultural plants, 23:22300
content of species of plants on Panola mountain, 23:22249(R) (ORO-2412-16)
content of surface atmosphere at Lawrence Radiation Laboratory during September 1970 to March 1971, 25:49178 (UCRL-51069)
content of surface atmosphere at selected land and marine sites during 1963 to 1970, monthly averages of fallout, 25:8670(R) (HASL-237(App.))
content of surface atmosphere at selected sites in western hemisphere during 1963 to 1970, monthly fallout, 25:16132(R) (HASL-239(App.))
content of surface atmosphere in Western Hemisphere through October 1970, monthly averages of, 25:46821(R) (HASL-243(App.))
content of surface waters in United States during 1966 to 1967, 22:28514
content of surface waters in United States during Feb. 1967, 22:28510
content of teenage diet in U. S. during 1965, 22:25850
content of tissues from deer and beef cattle in vicinity of Nevada Proving Grounds during 1968, 23:12073 (SWRHL-54-r)
content of tropical food chains during and after nuclear excavation, 23:18005 (CONF-670503-, pp 9-22)
content of water in Savannah River during 1968, 23:31779
content of water, state and territorial regulations and standards for, 22:28504
content of, in human diet, 21:14591
content on lower stratosphere during 1969, Project Airstream data on, 24:25481(R) (HASL-224)
control in IRT-1000, Sofia, cooling water, gamma spectrometric method for, 22:18572
control of drug-incorporated, health physics problems in, 23:14190
costs and suppliers for, 22:4224
counting of, development of nomogram for, 25:52008(R) (RLO-2226-T-1-7)
counting rates for short-lived, correction factors for, 21:6262
counting time in relation to background, optimum distribution of, 21:12663
customers and shipments for USAEC, FY 1969 list of, 24:9602 (ORNL-IIC-27)
cycling in aquatic ecosystems in relation to uptake and retention by clams, fish, and insects, 23:29432
cycling in aquatic ecosystems, use of specific activity concept for predicting kinetics of, 25:32376
cycling in ecosystems, kinetic model of, 25:37747 (BNWL-SA-3873)
cycling in seawater, role of algae, bacteria, and fungi in, 24:34211
cycling in terrestrial ecosystems, 24:39463 (ORNL-4446, pp 76-112)
cycling of fission product, in terrestrial ecosystems, research on biogeochemical, 25:37742 (A/CONF.49/P-85)
decay by successive disintegration with branching, transformation equations for, 23:13307 (HW-SA-3769)
decay chains of, computer program for calculating time-dependent populations of isotopes in, (E), 25:43889 (LA-4708)
decay characteristics, 22:20975(R) (BMwF-FBK-67-89)
decay corrections for tracer techniques, (T), 22:7777
decay curves for several, system for simultaneous determination of, 22:28116
decay curves for, asymptotic behavior of the maximum-likelihood estimation function with exponential Poisson regression, 25:41252 (JUL-720-MA)
decay curves for, computer program for analyzing, 21:14147 (LYCEN-6642)
decay energies of highly unstable, measurement of, (E), 22:29956
decay energies of, ERPD computer program for calculating, 21:15619 (UCRL-50164)
decay in compounds, 22:40049
decay in drugs and organic compounds, 25:23639
decay in man, computer program estimation of internal dose from, 24:50877 (CONF-691212-, pp 51-62)
decay in ocean sediments, effect of sediment surface mixing on, (T), 22:6504
decay in solids, chemical effects from, 25:8313
decay in solids, chemical effects from, 25:8314
decay measurements on, design of timing circuits for, 23:24490
decay of short-lived, computer programs for analysis of, 24:13775 (CEA-R-2980(2))
decay of, anomalous headlight effect in nonelectromagnetic, 24:30472
decay of, chemical reactions of recoils from, 22:33470
decay of, computer program for resolution of composite curves from, 24:11473
decay of, nuclear resonance fluorescence studies on chemical effects of, 25:32019
decay of, origins and intensities of background signals in magnetic beta spectrometers used in studying, 22:6632
decay of, tables of gamma spectra from, 25:59785
decay of, time-correction tables for, 21:34220
decay of, use of lithium-drifted germanium detectors for measuring, 23:17784 (BLG-425, Paper 4)
decay rates of, accuracy of correlation method for determining absolute, 22:16946
decay rates of, comments on use in turbulent diffusion studies of atmosphere, (T), 25:15793
decay rates of, solid-angle counting method for precise determination of, 22:14780
decay rates of, use in turbulent diffusion studies of atmosphere, (T), 24:46369
decay rates of, use of $4\pi\beta$-γ coincidence method for absolute measurement of, 21:14467
decay rates of, use of $4\pi\beta$-γ coincidence method for absolute measurement of, 21:14466
decay rates of, use of low geometry scintillation detectors in coincidence for measuring, 21:1623
decay rates of, use of low-geometry coincidence methods for measuring, 22:14772
decay schemes and characteristics for use in nuclear medicine, 23:35432
decay schemes for, handbook of, 25:49203 (PHS-PUBL.-2016)
decay schemes for, of interest for health and safety of man, 21:30351 (NYO-4700(2nd Ed.))
decay schemes of, 4π β—γ anticoincidence spectrometer for determination of, 24:11832
decay schemes of, processing of gamma spectrometer data for studying, 23:7776(T) (NP-tr-1713)
decay series for, theoretical possibilities for new, 24:38262
decay spectra of, equipment for analyzing, 21:34240(P)
decay spectra of, high-resolution measurements on, 24:52467(R) (COO-498-82)
deposition and transport of stainless steel corrosion-product, in liquid sodium-cooled reactor cooling systems, 23:21475 (BNWL-969)
deposition and transport of stainless steel corrosion product, effects of flowing high temperature sodium on, 23:23890 (BNWL-SA-2336(Draft))
deposition and transport of, development and testing of stable buoy and instrument system for studying effects of atmosphere—sea interface on, 24:39058 (BNWL-1307(Pt.1), pp 46-53)
deposition following accident at Savannah River Plant, emergency survey of, 22:36251 (DP-MS-68-1)
deposition from solutions, cell design for electro-, 23:24261
deposition in arteries, effects of natural α-emitting, on etiology of atherosclerosis in man, 21:24348
deposition in bones, effects of mucopolysaccharides on, 25:32342
deposition in human bones and respiratory tract, ICRP recommendations regarding MPC for, 24:27581 (CONF-690540-, pp 329-55)
deposition in lungs, ICRP model for, 21:32638 (CONF-661018, pp 61-73)
deposition in marine and terrestrial ecosystems of Alaska, rate of fallout, 24:48457 (BNWL-1307(Pt.2), pp 5-7)
deposition of airborne, on plants, effects of meteorological conditions on, 23:11658
deposition of, from gas flow in diffusion tubes, 21:6136
detection against continuous background, use of multichannel analyzer data for, 21:36458
detection and measurement in domestic sewage and industrial effluents, method for, 21:28118
detection and measurement in large bodies of water, method for, 21:28118
detection and measurement in tracer studies, design and performance of liquid scintillation detectors for, 21:36373
detection and measurement of, in sterilized solutions, design of microburette for, 21:8229
detection and position determination in vivo, crosscorrelation method for, 23:45508 (BNWL-1051(Pt.3), pp 18-21)
detection in biological materials, use of microscope—image intensifier system for scintillation, 22:19115
detection in mixtures, autoradiographic method for, 21:32104
detection in rainwater fallout, resolving power of lithium-drifted germanium detector for gamma-spectrometric identification in, 22:23314
detection in Scheldt Estuary in Belgium, methods for, 23:26770 (NP-17819, Chap.4)
detection in water, use of helophyte plants for, 23:50457 (CEA-CONF-1382)
detection of fractionated, on chromatograms, automatic device for, 21:10263
detection of γ-emitting from fallout, in animal and human organs, gamma spectrometry for, 21:12886
detection of low-activity, in human body, method for improvement of signal-to-noise ratio in, 21:22598
detection of low-energy, silicon avalanche detector for in vivo, 25:57770
detection of short-lived, used in activation analysis, lower limit of, 23:19979
detection of specific, statistical rules for, 21:19973
detection of weak tracer, in biological samples, use of image intensifier and scintillation counters for, 22:40504
detection of, in biological materials using cameras, 21:6557
detection of, limits of, 21:6150
detection of, lower limit for, 21:282
detection of, methods for, 21:16335 (CMN-Pub-4/65(Vol.1))
detection of, used in clinical scanning, evaluation of collimators for, 21:6567
detection of, used in medicine, 21:12878
determination by densitometry of autoradiograms, 22:7988 (CEA-R-3269)
determination by gamma scintillation spectrometry, 21:23819 (ISO-495)
determination by gamma spectroscopy, lead barricades for use in, 21:30345(R) (IN-1063)
determination by least-squares resolution of gamma spectra, computer program for, 21:26179
determination by liquid scintillation counting, 22:12265
determination by liquid scintillation counting, sample preparation for, 23:35002 (NP-17919)
determination by mathematical evaluation of multicomponent gamma spectra, 22:47091
determination by methods using γ-ray spectrometry and computers, 22:37693
determination by scintillation counting, sonication method for samples insoluble in counting solution for, 21:19566
determination by spectrochemical methods, effects of electrode properties on sensitivity of, 21:30384
determination following paper chromatography or paper electrophoresis by elution, electrodeposition, and counting, 25:4030
determination in air at Hanford Redox Analytical Laboratory, monitoring program for, 23:31297 (ARH-SA-29)
determination in atmospheric precipitation and drinking water, 22:45199
determination in biological materials by colloid filtration and counting, 23:47389
determination in biological materials, computer program for use in, 21:32088 (EUR-3469.e)
determination in biological materials, development of wet ashing method for rapid radiochemical, 24:7416
determination in biological materials, review of, 23:4960
determination in Brazilian foods and waters, 22:2217
determination in compounds, 22:40049
determination in compounds in tissues, high-resolution autoradiography for, 22:16473
determination in enriched uranium, methods for, 22:25236 (CEA-N-616, pp 20-71)
determination in environmental and biological materials, use of semiconductor detectors for, 23:619
determination in environmental samples and fission product mixtures, lithium -drifted germanium Compton suppression gamma spectrometer for, 24:46497 (BNWL-1285)
determination in environmental samples from Amchitka Island, Alaska, 25:16072(R) (BMI-171-110)
determination in Eurochemic reprocessing solutions, remotely operated equipment for, 22:40030
determination in feces, 25:37306(R) (BNWL-1183-8)
determination in field measurements using gamma spectrometers, optimum conditions for, 22:19145
determination in HFIR coolant water by γ spectrometry, 23:9306 (ORNL-4343, pp 62-84)
determination in human body using whole body counters, conference on, 24:31679 (KURRI-TR-66)
determination in large liquid volumes by counting with well-type crystal in end-on position, 23:43272
determination in lunar surface materials by γ spectrometry, 23:34990
determination in man, evaluation of multidimensional γ spectrometry for whole-body, 23:11444 (BNWL-481-2, pp 1-126)
determination in marine environment by gamma spectroscopy, 24:13767 (RLO-1750-54, pp 5-6)
determination in meteorites, 22:12338(R) (COO-1167-3)
determination in meteorites, 23:21330(R) (COO-1167-6)
determination in mixtures in biological materials, spectrometric method for, 25:4031
determination in mixtures, calculation of lower limits of detection for gamma spectroscopic, 25:18746
determination in mixtures, computer programs for resolution of γ spectra for, 25:15543
determination in mixtures, computer-assisted method for, 25:54441
determination in personnel at Karlsruhe nuclear center, methods for, 24:34376
determination in pharmaceuticals, methods for radiometric, 23:47
determination in radiopharmaceuticals, ionization chamber for mCi, 25:18723
determination in sodium, development of methods for, 25:13651(R) (ANL/ST-4)
determination in solutions, hot cell for spectrochemical, 22:39982 (JEN-188-DQ/1-64)
determination in tissues by liquid scintillation counting, preparation of samples for, 23:11442
determination in tissues, autoradiographic methods for, 22:16474
determination in two-component mixture from radioactive decay, 21:32120
determination in urine or water by sorption on phosphate gel mats and counting, 23:19661 (STI/DOC-10/95)
determination in urine, self-volume standards for, 25:18361
determination in vitro, studies of errors in, 23:45612
determination in VVR-S reactor cooling water, qualitative, 21:8052
determination in waste solutions, review on, 23:2389
determination in water by ion exchange or filtration and counting, 25:2117
determination of alpha-emitting nonuranic, in uranium trioxide and uranyl nitrate, 22:21022 (PG-Report-823)
determination of alpha-emitting, by elution chromatography and scintillation counting, 23:26185
determination of alpha-emitting, in aerosols, 21:40791

determination of alpha-emitting, in solid residues from soil and water, 21:10258(T) (CEA-tr-R-1704)
determination of alpha-emitting, ionization chamber spectrometer for, 21:310
determination of alpha-emitting, use of nuclear emulsions in, 21:27913
determination of alpha-emitting, use of photoemulsions in, 21:27912
determination of α-emitting, in food, method for, 23:26191
determination of beta-emitting, by counting Cherenkov radiation, 23:35021
determination of beta-emitting, by liquid scintillation counting techniques, 23:26189
determination of beta-emitting, in biological materials by scintillation counting, 21:27924
determination of beta-emitting, in water, evaluation of counters for, 23:21655 (SZS-1/69)
determination of gamma-emitting, by computer analysis of gamma spectra, 21:30353 (UCID-15140)
determination of gaseous, calorimetric method for, 25:37286(P)
determination of γ-emitting, in neutron activation, method for automated, 24:31257
determination of long-lived, laboratory blank experience in, 22:37653 (UCRL-18140, pp 13-36)
determination of low-level gamma-emittting, coincidence spectrometer for, 23:40857(R) (NYO-844-76)
determination of naturally unstable, α-, β-, and γ-emitting, review on effects of properties on radiometric, 25:54446
determination of polyvalent, in biological materials by colloid filtration and counting, 23:31299 (LF-39, pp 156-64)
determination of protein-bound, by ultrafiltration and liquid scintillation counting, 24:4239
determination of radon-decay-product, in uranium mines, 23:31300
determination of short-lived, 25:10472(R) (BMBW-FBK-70-19)
determination of short-lived, in neutron activation by gas chromatography and scintillation counting, 22:12264
determination of short-lived, using scintillation counter and Geiger-Mueller tube, 22:48828
determination of small amounts of, optimization of radiometric equipment for, 25:42102
determination of small amounts of, using lithium-drifted germanium spectrometers, 25:42048 (ANL-7710, pp 263-364)
determination of soft-beta-emitting, by liquid scintillation counting, 23:17360
determination of trace amounts of, 24:13766 (NBS-TN-501)
determination of trace amounts of, facility for, 22:14433 (ORNL-4196, pp 66-89)
determination of trace amounts of, in seawater, review on methods for, 25:28921
determination of trace amounts of, in water by ion exchange, 21:1295
determination of trace impurities of short-lived, use of neutron activation analysis for, 22:4468
determination of, by autoradiography on thin-layer chromatograms, 21:14152
determination of, by least-squares resolution of gamma spectra, computer program for, 21:2992
determination of, coincident lithium-drifted germanium gamma spectrometers for, 25:42113
determination of, computer programs for efficiency calculations on scintillation counter data for, 22:16475
determination of, computer programs for processing gamma spectra for, 21:36333 (BNWL-506)
determination of, design of spectrum analyzer for use in, 21:34240(P)
determination of, energy and intensity of complex photopeaks in gamma-spectrometric, 21:32130
determination of, facilities and program for, 22:16422
determination of, in biological and environmental samples, manual of procedures for, 21:30351 (NYO-4700(2nd Ed.))
determination of, in environment, intercomparisons of data from, 21:2995
determination of, in enzymes, filter paper disk method for, 21:2956
determination of, in mixtures, data unfolding techniques for, 25:54436 (ORNL-TM-3463)
determination of, in mixtures, spectrometric, 21:10283
determination of, methods for, 22:18697
determination of, methods for, 22:37678
determination of, precision of isotope dilution methods for, 23:24096
determination of, problems in choice of method for instrumental activation, 22:39992
determination of, resolution of complex gamma spectra obtained with scintillation counters for, 22:47100
determination of, resolving power of gamma coincidence spectrometry for, 24:16448
determination of, size relation between chromatographic spot and its autoradiogram in, 22:8030
determination of, using a radio gas chromatograph, 21:5978
determination on paper chromatograms, 21:30359
determination using column liquid chromatography and counting, 25:12952
development activities of the Australian AEC, 21:47022(R) (NP-17065)
development and use, review, 22:4309 (TID-24102)
development by USAEC, JCAE hearings on, 22:10169
development for power sources in Europe, economic aspects of, 21:39141
development in Canada, 21:5595 (AECL-2486)
development in Japan of, review of, 23:31151
development of compounds labeled with, for use in medicine, 21:12927
development of short-lived, for use in nuclear medicine, recent advances in, 25:37833 (A/CONF.49/P-92)
development of systems and applications for, for aerospace, 21:12590
development of, conference on, 24:24682
development of, review of 1966, 21:5608 (CONF-661108-1)
development of, review of worldwide, 22:25032
development of, technical progress review on, 25:57127
developments in, review of, 24:50524
diffusion from thin-layer source into semi-infinite solid, computer program for calculating, 23:19900 (AAEC/TM-486)
diffusion in fused silicates, measurement of, 24:8190
diffusion in oxides and soils, 23:47641 (AD-690189)
diffusion in sea sediments, (E), 24:48194
diffusion in sediments and suspended solid particles of the sea, molecular, 22:10408
diffusion in soils, coefficients of self-, (T), 23:29002
diffusion in soils, effects of organic chelating agents on, 24:5659
diffusion in solids, 22:6313 (HMI-B-53)
diffusion in Southern Hemisphere, atmospheric, 21:6050
diffusion in vermiculite, mechanisms of, 22:16801
diffusion of bitumen-coated, in soils and water, equipment and method for measurement of, 23:33365 (CEA-R-3743)
diffusion of helium in spherical alpha-emitting, computer program for calculation of, 23:40949 (SC-RR-69-103)
diffusion of underground nuclear explosion-produced, in ground waters, prediction of, 23:45399 (NVO-40(Rev.2), pp 69-82)
diffusion of, in alloys, bibliography on tracer, 21:13152 (ORNL-3795(Pt.3))
diffusion through placental tissues, effects of chelation state and placental enzymes on, 23:24534
directory for 1971, 25:6382
disbursement and inventory of, development of computer data system for, 25:19050
discharge into ecosystems surrounding Casaccia Nuclear Center in Italy, determination of maximum rates for, 25:16163
discovery of natural, review on, 21:1094
dispersion and migration in soils, model experiments on, 22:16800
dispersion in atmosphere following reactor accidents, computer method for calculation of, 25:42393 (BNWL-B-69)
dispersion in Clinch and Tennessee Rivers, 21:16028 (ORNL-3721(Suppl.2A))
dispersion in sandy aquifiers, (E), 22:19073
disposal of long-lived, in underground rock salt formations in Germany, 21:32350(T) (ORNL-tr-1701)
distribution and biological effects of, translation, 23:22150(T) (AEC-tr-6944)
distribution and fate of, in recovery of oil from shales using nuclear explosions, 21:30560(R) (ORNL-TM-1886)
distribution and measurement in man, rotational technique for determining, 21:32720
distribution and movement in nuclear crater ejecta, measurement of postshot, 24:41490 (CONF-700101-(Vol.1), pp 400-21)
distribution and production by underground nuclear explosions, methods for prediction of, 25:10742
distribution and retention in dogs, mice, and rats following inhalation in fused clay particles, model for insoluble, 25:29422 (LF-43, pp 53-8)
distribution and retention of colloidal or macroaggregate-incorporated, in man in relation to dose, 24:50676 (CONF-691212-, pp 239-52)
distribution and retention of, in man during medical radiology, 24:50873 (CONF-691212)
distribution around nuclear craters, hydrologic, 22:21226 (NVO-1229-87)
distribution around nuclear-excavated canals, effects of hydrologic processes on, (T), 23:11632 (BMI-171-16)
distribution around nuclear-excavated sea-level canal, model for hydrologic, 24:16698
distribution from underground nuclear explosions used to fracture copper ores or oil shales, 24:342 (ORNL-4422, pp 272-5)
distribution in animal tissues, 23:20082(T) (NRC-TT-1345)
distribution in animal tissues as function of time following intravenous injection, computer calculations of, 25:26580
distribution in aquatic and terrestrial ecosystems, 24:31878(R) (BNWL-1050(Pt.2))
distribution in aquatic and terrestrial ecosystems, bibliographies on, 22:33777 (TID-3910(Suppl.5))
distribution in aquatic organisms, for ecology studies, evaluation, 24:39473
distribution in Arctic ecosystem in Alaska, comparison of γ-emitting, 24:31881 (BNWL-1050(Pt.2), pp 1.20-3)
distribution in atmosphere, development and operation of equipment for measuring vertical, 25:10754 (NP-18633)
distribution in biological materials, 24:39418(T) (AEC-tr-6944(Rev.))
distribution in biological materials, effects of, 21:26348
distribution in biological tissues, kinetics of, 25:51974
distribution in body in relation to half-life, methods for monitoring, 25:52053
distribution in body of large animals, review of use of dilution method to determine, 23:22218
distribution in body, design of autofluoroscope for determining, 22:6693
distribution in body, schema for dose calculations for, 24:50894 (CONF-691212-, pp 481-9)
distribution in British coastal waters following sea-disposal of liquid wastes from fuel reprocessing and nuclear power plants, (E), 25:32095
distribution in cavity of Salmon event, vertical, 21:36181 (DP-1106)
distribution in ecosystems, 21:26389 (RT/BIO-(67)1)
distribution in ecosystems, 24:41784
distribution in ecosystems, computer analysis of, 21:8746 (ORNL-4007, pp 43-119)
distribution in environment, methods for studying, 25:37259 (BNWL-1551(Pt.2), pp 51-62)
distribution in fallout from Project Schooner, 25:4180
distribution in fallout from Project Schooner, 25:37513
distribution in fuel elements, determination by two-dimensional gamma scanning, 24:46448
distribution in granites, homogeneity of, 22:2200
distribution in ground waters from underground nuclear explosions, methods for measuring, 22:23185 (HNS-1229-43)
distribution in human cortical and trabecular bones, mathematical model for determining bone-seeking, 24:27504 (ANL-7615, pp 58-76)
distribution in human organs and tissues, use of collimated counters to determine, 24:41751
distribution in human organs, design of scanner for determining, 22:30841(P)
distribution in human skeleton, evaluation of alpha-emitting, 22:38491
distribution in human tissues following parenteral administration, computer programs for calculation of dynamics of, 24:32055 (IAN-B-3)
distribution in human tissues, methods for determining, 23:24633
distribution in layers of snow, 23:48041
distribution in lower stratosphere, radioactive tracer studies of worldwide, 24:25138
distribution in lymph system of dogs in relation to diagnosis and therapy, effects of particle sizes on, 23:41211
distribution in man during medical procedures, methods for assessment of, 25:32354
distribution in man, correction of whole-body counting data on, 21:45672 (ORAU-101, pp 166-8)
distribution in man, design of gamma camera for determining, 22:2344 (ORNL-IIC-10(Vol.1), pp 248-67)
distribution in man, method for obtaining simulation photoscan of, from dot scan, 21:24462
distribution in man, rotational scanning technique for measurements of whole-body, 23:50522(P)
distribution in man, scintigrams for, 25:13503
distribution in man, whole-body counting method for determining, 23:9962
distribution in man, whole-body counting of, 21:45502 (ORAU-101, pp 103-5)
distribution in natural waters, 22:35922 (ISS-66/36)
distribution in organs and tissues, equipment for determination of, 21:6546
distribution in organs, linear scanning for diagnostic purposes, 22:6566
distribution in organs, scanning methods and equipment for determining spatial, 22:49070(T) (JPRS-46486)
distribution in PNPF concrete shielding, safety analysis of, (E/T), 24:38511 (AI-AEC-Memo-12708(Suppl.A))
distribution in rain drops and ice crystals, 23:17606
distribution in rat tissues following inhalation, pathological and physiological factors in, 23:43662 (UH-235-P-8-11)
distribution in rocks fractured by contained nuclear explosions, 25:54826(T) (UCRL-Trans-10543, pp 99-116)
distribution in sewage and drinking water in Germany, 1956 to 1963, 22:10368
distribution in streams, development of model to describe, 22:10356 (ORO-490-12)
distribution in terrestrial environment, 22:6436 (ORNL-4168, pp 1-60)
distribution in tissue-equivalent materials, optical transfer function of scintillation cameras used for determining, 22:43045
distribution in tissues of crabs and molluscs, 23:26774
distribution in tissues of man, postmortem study of, 24:50880 (CONF-691212-, pp 103-13)
distribution in tissues of mice, measurement of, using whole-body autoradiography, 23:50249
distribution in tissues, use of modified color scanner for determining, 21:41443
distribution in trachiphonolitic formation volcanic rocks, determination for geologic process differentiation, 25:46564
distribution in transverse section of rotating subject, design of scintillation gamma cameras for determining, 23:16109(P)
distribution of absorbed energy of α-emitting, in biological units, 23:14209
distribution of aerosol-incorporated, in nasopharyngeal region in man, effects of flow rate and pressure on, 24:48368 (AERE-R-5860)
distribution of beta-active, in materials with considerable thickness of stratum, method for determining, 23:11894
distribution of beta-emitting, in Moscow atmospheric precipitation, 1964 to 1966, 23:17607
distribution of bone-seeking, two-compartment model with random connection for determining, 21:10725 (ORNL-P-2644)
distribution of fallout, in Black Sea, 23:21833
distribution of heavy, in Florida rocks and waters, 22:2204
distribution of long-lived, from Hanford waste disposal operations, effects of Ben Franklin Dam on, 21:32347 (BNWL-412)
distribution of natural, in atmosphere, 22:37883
distribution of natural, in soils of USSR in relation to climatic zones, 25:2371
distribution of naturally-occurring, in environment of man, review of, 21:26391
distribution of, in oceans, effect of depth on mixing of, 21:8482
distribution of, in thin-layer chromatograms, computer analysis of, 21:10259
distribution of, in tissues, isosensitive scanning technique for, 21:10972
distribution of, in tissues, use of whole-body counters for, 21:12892 (STI/PUB-122)
distribution on chromatograms, design of automated system for sample collection and computer analysis of data on, 21:45281 (ORAU-101, pp 154-5)

distribution, research on, 22:51306(R) (ORAU-106)
dose comparison with x radiation in radiotherapy, 22:38322
dose from calculation of absorbed, 22:31074
dose from medical use, 21:22494
dose to man from nuclear explosions, methods of estimating, 22:40669 (UCRL-70894)
dosimetry for nuclear medicine, review of considerations in calculation of dose for, 24:50875 (CONF-691212-, pp 17-31)
dosimetry in man during scanning, 22:28484
dosimetry of artificial and natural, in soils using γ spectrometry, 21:6538
dosimetry of biologically distributed, equations for calculation of dose in absorbed, 22:36262
dosimetry of bone-seeking, calculation of, 21:20200
dosimetry of bone-seeking, in human children, relation of trabecular bone composition to, 22:31081
dosimetry of high-activity, performance of glass dosimeters for, 21:22169 (ISS-66/42)
dosimetry of internally-deposited, in man, recommendations of International Commission on Radiological Protection on, 21:24440
dosimetry of internally-deposited, use of human phantoms and computer calculations based on decay schemes for, 25:18991 (ORNL-4584, pp 200-22)
dosimetry of medically-important, 21:24297(R) (ORO-2401-9)
dosimetry of, conference on, 23:12090
dosimetry of, from fallout in man, 21:14640
drop weight of solutions containing, methods for determining, 22:14880
dynamics in nuclear medicine, analog computer programs for personnel training in, 24:14517
dynamics in steady state biosystems, analysis and use of, (T), 23:2798
effectiveness for diagnosis and therapy, conference on developments in nuclear medicine for, 25:35155
effectiveness for diagnosis in pediatrics, review on, 25:35182
effectiveness for diagnosis of human kidney function, 25:35184
effectiveness for diagnosis of intracranial gliomas in man, review of, 24:32080
effectiveness for diagnosis of tumors in human bone, brain, and liver, 25:35185
effectiveness for diagnosis of urinary tract diseases, 24:34438
effectiveness for differentiation of tumors of posterior cranial fossa in man, effects of age and anatomical location on, 25:26820
effectiveness for evaluating pulmonary blood circulation in man following injection, 25:11126
effectiveness for evaluating regeneration of human liver by scintigraphy, 25:11202
effectiveness for human liver scanning, value of lateral view in, 25:44859
effectiveness for renal scanning in hypertensive patients, effects of postural changes on, 25:44858
effectiveness for renography in dogs and man for localizing ureteric obstructions, 24:50990
effectiveness for renography in patients with cervical carcinomas in relation to prognosis, 25:55275
effectiveness for scanning human cardiorespiratory system, 25:35181
effectiveness for scintigraphy, effects of scattered photons on, 24:48637
effectiveness for therapy of human thyroid carcinomas before or after surgery, 25:35190
effectiveness of arterial implants of, in combination with drugs for therapy of hypernephroma and pelvic neoplasms in man, 25:24296
effectiveness of Rose Bengal-incorporated, for studies of activity of polygonal hepatic cells and hepatic blood circulation, 25:16240
effects of artificial and natural, on gamma dose rates in soils, method for distinguishing, 25:8360
effects of bone-seeking, on loss of teeth in beagles, 21:13036
effects of decay on, due to change in nuclear charge, (T), 25:33062(T) (RFP-Trans-71)
effects of injected, on leukemia and osteosarcoma incidence in rats, 21:16486
effects of naturally unstable, on activity measurements in biological materials, 25:52084
effects of occupational exposure to, on health, 21:10895
effects of rain water contaminated with, on endocrine glands of pregnant mice, 21:435
effects of short-lived, on earth crust erosion, redeposition of sedimentary materials, and weathering, 22:35936
effects of trace, on determination of plutonium-239 in aqueous solutions by liquid scintillation, 22:40018
effects of, on cell metabolism, 21:12792
effects of, on mammalian development, review on, 21:6708
effects on animal and human cells, 23:33806 (PHS-PUBL.-1809, pp 5-19)
effects on animal tissues, methods for determination of, 23:24628
effects on animals and man, genetic, 25:11294(R) (EUR-4542)
effects on animals following incorporation, significance of dose rate for RBE of, 22:23651
effects on animals in relation to pharmacology, review of, 22:51829
effects on bacteriophage, progress report on genetic and lethal, 23:45691 (ANL-7535, pp 6-7)
effects on beagle dogs following internal deposition, 24:836(R) (COO-119-240)
effects on Beagle dogs following uptake, annual report of research on, 25:6775(R) (UCD-472-117)
effects on biochemicals and organic compounds, survey on labeling, 24:50428
effects on biological materials, 24:39418(T) (AEC-tr-6944(Rev.))
effects on blood cells of animals and man, review of, 25:44901
effects on cells of animals and man, review of damaging, 25:29690
effects on chromosomes of personnel following occupational exposure, aberrant, 24:41798 (BRH/DBE-70-1, pp 173-204)
effects on content of acetylcholine and histamine in kidneys and liver of rats following ingestion, 24:9759
effects on decomposition of organic compounds, review on, 21:43013
effects on dehydrogenase activity in lymph nodes of man and rabbits, 23:45630
effects on distribution of ions in hemolymph of cockroaches, internal, 23:9852
effects on dogs and other animals, 24:29852(R) (UCD-472-116)
effects on dogs of injected, pathological, 21:24286(R) (COO-119-235)
effects on ecosystems of Grenoble, France, role of plants in, 23:29417(T) (AEC-tr-7038)
effects on ecosystems, review of research concerning, 24:31902
effects on hematological processes, review of, 25:44900
effects on histamine-histaminase system in blood, intestines, kidneys, and liver, 23:4877
effects on human bladder following therapy of bladder carcinomas, pathological, 25:24448
effects on human chromosomes in relation to carcinogenesis, aberrant low-dose external and internal α, β, and γ, 24:50807 (CONF-691212-, pp 425-30)
effects on human fetus following accidental contamination or therapy of mother, review of, 25:27040
effects on incidence of cancer in animals and man, bone-seeking, 23:12193 (COO-119-237, pp 84-9)
effects on intestinal epithelium of rats following incorporation, 24:9931
effects on lung tissues, effects of dose distribution on repair proliferation following, 24:51071
effects on lungs of dogs, effects of chemical form on, 24:34022 (LF-41, pp 111-16)
effects on lungs of mammals following inhalation, development of model for carcinogenic, 24:27674 (CONF-691001-, pp 285-303)
effects on lungs, carcinogenic, 23:33595 (PHS-PUBL.-1809, pp 59-88)
effects on man following accidental ingestion, 24:9834
effects on man following ingestion, treatment of, 23:22304
effects on man in relation to nuclear medicine, 24:50873 (CONF-691212)
effects on man, evaluation of hazards from neoplastic, 24:34723
effects on man, hazards of mutagenic, 24:34203
effects on man, review of medical, 22:49514
effects on marine life in Columbia River, effects of Hanford reactors on, 24:650(R) (RLO-2047-5)
effects on mineral metabolism in cattle, sheep, and swine, 24:11909 (ORO-672, pp 82-6)
effects on personnel, diagnosis, dosimetry, and treatment of toxic, 24:21184(T) (AEC-tr-7131)
effects on personnel, role of health physicist in protection against, 23:9958
effects on physiology of marine hydrobionts, 21:8806(T) (AEC-tr-6641, pp 78-104)
effects on plants for improvement of productivity, mutagenic and preservative, 25:47046
effects on productivity of beans, 22:12942
effects on rate of gas exchange in white rats following introduction into gastrointestinal tract, 24:27535
effects on rats following intraperitoneal administration, review on remote sequelae of, 25:24225(T) (AEC-tr-7195, pp 439-58)
effects on respiratory tract of animals following inhalation, α-emitting, 24:50674(R) (BNWL-1306(Pt.1))
effects on self-decomposition of organic compounds, 22:50966
effects on weight of beagle skeletons, methods for measuring, 24:555 (COO-119-240, pp 162-71)
electron capture of incorporated, chemical effects from, 24:31436
electron emission in nuclear K-electron capture, K-, (T), 21:30052
electron-capture rate of, using 4π proportional detector, 22:6564
encapsulation inspection for, multielectrode ultrasonic transducers for, 25:21465 (BNWL-1491)
energy levels in relation to quality of scans, 23:14217 (ORO-2401-15)
energy-level transitions of all reactor-produced, tables of gamma energies for, 23:44825
environmental contamination by, MPC for, 25:13437
evaluation and performance of, for propulsion and power for spacecraft, 21:24178
evaluation as power sources in manned space stations, 23:38200
evaluation for Brayton cycle power conversion system, 21:39129 (ORNL-4155)
evaluation for transmission scanning, 23:43807 (COO-1422-58)
evaluation for use as tracers for pollution control studies of diffusion and flow conditions in estuaries, 25:2348 (NYO-3961-1)
evaluation of long term effects of, following internal deposition, 25:37710 (A/CONF.49/P-81)
evaluation of short-lived, for tracer applications in medicine, 25:29439
evaluation of, as heat sources for Stirling engine, 21:26112
evaporation from solid surfaces, method for determining trace amounts of elements by, 23:6075
exchange between marine organisms and environment, mathematical model for studying kinetics of, 24:2555
exchange from cylinder, kinetic analysis of, 22:40610
excretion and retention of bone-seeking, computer analysis of power functions for, 21:8797 (ORNL-4007, pp 211-41)
excretion by animals, evaluation of methods for control of, 22:25861(T) (JPRS-39391)
excretion by man, 23:22304
excretion of insoluble and nonabsorbed, comparison of, 24:50888 (CONF-691212-, pp 295-314)
excretion of proton-radioinduced, by patients following therapy, 23:7440(R) (BNWL-531-4)
export and import of, digest of USAEC regulations for, 25:51772 (WASH-1163)
exposure data and permissible levels for, 25:39874
facilities for use of, in general hospitals, design and procedures for safe management of, 21:10892
facilities in Poland, monitoring of personnel in, during 1963 to 1965, 21:20165 (CLOR-58/D)
fallout totals at Atlantic Ocean floating weather stations and selected U.S. stations, 1957 to 1966, 21:41019(R) (HASL-182)
fixation in solids, 22:30588(R) (HMI-B-66)
formation of mixtures of, nomogram for determining date of, 21:10454
fractionation in fallout particles from third Chinese nuclear explosion, 22:16719
fractionation in ion exchange columns, effects of water structure on, 23:2919(R) (ANL-7409)
fractionation of, in fallout from third Chinese nuclear explosion, 22:4284
fractioning of, in underground nuclear explosions, 21:10495(T) (JPRS-38744)
gamma activities of, calibration of well-type ionization chamber for determination of, 23:29190
gamma activities of, method for determining, 21:16099 (BNL-10863)
gamma activity of neutron-capture-produced, table of, 21:11922 (EUR-3154.e)
gamma activity of, description of single channel pulse analyzers for use in spectrometers in low-level measurement of, 21:24226
gamma angular distribution from polarized, system for measuring, 25:55089
gamma emission by, detection of dyes simultaneously with, in circulating blood, 21:45518
gamma emission by, regulations for protection of laboratory personnel in Poland against, 22:23588
gamma emission by, sensitivity of whole-body counters for detecting, 21:26432
gamma energies and half lives of, from neutron reactions, 21:30027 (KFKI-5/1967)
gamma energies and intensities from neutron capture by $Z = 11$ to 83 nuclei, (E), 23:10993
gamma energy standards, 21:19296 (UCRL-50001-66-1, pp 1-40)
gamma radiation emission by, preparation of catalog of, 23:13801 (DP-MS-68-60)
gamma radiation from, tables of abundance, energy, half-life, and production mode of, (E), 25:28400
gamma spectra from mixtures of, computer program for least squares analysis of, 23:47785 (IA-1193)
gamma spectra from photo-activation of $Z = 44$ to 83 nuclei, compilation of, 23:5865 (AERE-R-5818)
gamma spectra of mixtures of, computer program for resolving, 21:42708
gamma spectra of, detector design and operation for pulse-height analysis of, 21:42891
gamma spectral analysis for mixtures of, using stepwise statistical method, 21:11995
gamma spectral analysis of mixtures of, detector—computer system for, 22:19132 (BNWL-669)
gamma transition energies of reactor-produced, 25:50638
gamma-ray relative intensities of, least-square analysis of scintillation spectra using bent-crystal monochromator for determining, 21:12046
gamma-spectra from, at different depths, methods for quantitation of scanning data from, 23:12068 (ORO-2401-11)
geochemistry of, 23:38098
half life and migration in marine waters, biological and physiological factors affecting, 23:43718
half lives of, exact measurement of, 21:15603
half lives of, in ms range, design of electronically-pulsed relay driver for measuring, 22:19206
half-life and type of decay of, 22:42698
half-life determination by 4π beta—gamma coincidence method, 24:33932
half-life determination of, bias in least square method for, 24:21012
half-life in insects, ecological uses of, 25:49075
half-life measurement in μs to ms range by pulsed activation method, 24:33931
half-life measurement of, multiscaler circuit for detector for, 24:33894
half-life measurement of, pulse shape selection from lithium-drifted germanium detector for nanosecond, 24:29551
half-life measurement of, reactor rotating target for, 24:7235
half-life measurements for short-lived, using modulated excitation source, (E/T), 22:32677
half-life measurements for, method for analysis of exponential decay curves in, 24:30958
half-life measurements in range 10 to 100 days, method for, (E), 21:4280
half-life measurements of short-lived, automatic dead time correction for, 25:8515
half-life measurements of short-lived, gamma spectroscopy method for, 24:44298
half-life measurements of, statistical considerations in, 24:44305
half-life measurements of, statistical considerations in, 24:29565
half-life measurements of, statistical considerations in, 24:29558
half-life measurements of, timing properties of radiation detectors or subnanosecond, 25:26491 (INR-1213)
half-life measurements of, use of liquid scintillation detectors for, 25:8539

half-life measurements using multichannel analyzers, 24:48281
half-life of, facilities and program for measuring, 22:16422
half-life of, maximum likelihood estimate of, 23:19360
half-life of, maximum likelihood method for estimation of, 24:18451
half-life of, statistical determination of, 24:21009
half-lives of, decaying pairs method for measuring, 22:18738(R) (MLM-1417)
half-lives of, methods for accurate measurement of, 22:29990
half-lives of, methods for measuring, 22:1956(R) (MLM-1405)
half-lives of, statistical determination of mean, (T), 25:20498
half-lives of, table of, (E), 25:20368 (JAERI-Memo-4189)
half-lives of, tables for, 22:48441 (AERE-M-2058)
half-lives of, tabulation of, 21:36022
half-lives of, use of prediction analysis in designing experiments for measuring, 22:18338
handling and storage of, fireproofing of facilities for, (E), 24:27318 (UCRL-19465)
handling and storage of, guide to safety procedures during, 23:29544 (THAI.-AEC-1(Rev.1))
handling and use of, in Japan, education and training needs for, 24:31665
handling by industrial personnel, methods for radiation protection during, 22:45572
handling by industrial personnel, protection methods for, 25:13467
handling in experimental radiobiology, 24:50656
handling in hospitals, ICRP recommendations for radiation protection in, 25:42476
handling in hydrological research, safety in, 21:14314 (STI/PUB-131)
handling in laboratories, methods of safe, 23:26816
handling in research activities at JAERI, training program on, 21:36575(R) (JAERI-5015)
handling of encapsulated, regulations for, 25:11089
handling of pharmaceutical-incorporated, in diagnostic and therapeutic medicine, safety principles for, 25:35153
handling of syringes containing, dose to skin of fingers during, 23:31766
handling of, bibliography on accidents during, 22:12895 (AED-C-16-03-I)
handling of, bibliography on safety in, 24:16219 (ORNL-NSIC-72)
handling of, design of bucket elevator wheel for, 22:10478(P)
handling of, design of force-reflected manipulator for remote, 22:10472(P)
handling of, IAEA manual on safe, 25:46861
handling of, safety in, 23:16303
handling of, safety related occurrences during Aug. to Sept. 1969 in, 24:13613
handling of, standard for safe, 25:57709
handling of, training programs at Harvard for safe, 21:36611
handling procedures for, in Quehanna Cell 4 Process, manual for, 21:32292 (MND-3062-24)
handling, licensing, and packaging procedures for, catalog of, 21:45181
hazards during handling of, to personnel at universities, health physics measures for reducing, 24:34375
hazards from environmental contamination of Novgorod region, 24:41886
hazards from fallout, review of, 21:16352
hazards from occupational exposure to, 21:24422(T) (NRC-TT-1264)
hazards in environment of man, review of, 21:16351
hazards in medicine, review of, 21:16354
hazards of corrosion-product, from nuclear submarines, 25:19014
hazards of induced long-lived, in radiopreservation of foods, effect of storage time on, 21:14786
hazards of use of, laboratory experiments on, 21:12831 (CMN-Pub-2/65)
hazards to engineering and industrial personnel, insurance against and legal aspects of, 23:24607 (CONF-670649-2)
hazards to hospital and research personnel, methods for protection against, 24:12092
hazards to hospital personnel, measures for protection against, 25:35151
hazards to hospital personnel, methods for protection against, 25:35150
hazards to man from use in medical diagnosis methods for control of γ, 23:50551 (PHS-999-RH-33, pp 78-86)
hazards to man in industry and medicine, 25:58139
hazards to man, from food of marine origin, methods of predicting, 24:34215
hazards to medical personnel, effects of half-life on, 25:35099
hazards to patients during diagnosis, establishment of permissible dose levels for minimizing, 25:42552
hazards to personnel during handling, measures for protection against, 24:36747 (JUL-603-ST, pp 157-74)
hazards to personnel handling, protective measures against, 25:26783
hazards to personnel handling, standards for protection against, 22:501
hazards to public from consumer products containing, analysis of procedures for control of, 25:19015
heat generation in meteorites before solidification by, 22:31582
heat sources of, capsule development for, 22:33601 (AI-AEC-12643)
heat sources of, development of capsules for large, 22:10503 (NAA-SR-12635)
history and applications of, review of, 21:17783
hyperfine structure of optically excited states of, determined by atomic-beam method, 21:31203
identification limits of short-lived, in activation analysis, 21:12095
identification of gamma-emitting, use of colorimetric detectors for, 21:22154
identification of, punched-card data system for, 21:40792
imaging systems for, image restoration in, 22:4538
implantation in crystals for hyperfine interaction measurements, (E), 22:46257
import and export by Germany, for year 1969, 25:21249
import and export of, by West Germany, 1968, 24:16794
incorporation by man, MPC for, 21:28469
incorporation by mitotic cells, interpretation of graph of, 23:45613
incorporation in chelated compounds, 24:27626(R) (UCLA-34-P-119-23)
incorporation in erythrocytes for study of inflammations in combination with iodine-125 incorporation of proteins, 25:11193
incorporation in human serum albumin microspheres for circulation studies, 24:41918
incorporation in insects, review of methods for, 22:40979 (THAI.-AEC-8)
incorporation in ion-exchange materials for use as radiation source, 22:8164(P)
incorporation in lipids, review of methods for, 22:50914
incorporation in medical and pharmaceutical preparations in Germany, review of, 23:38400
incorporation in nuclear emulsions by electrocapillary filling, 21:27913
incorporation in nuclear industry and research center personnel in Germany, statistics on, 25:35100
incorporation in samples for tracer studies, combustion chamber for use in, 25:21253(P)
incorporation in samples for tracer studies, heat exchanger for use in, 25:21252(P)
incorporation in sediments, methods for, 25:41659(T) (ORNL-tr-2501)
incorporation in silicon oxide during controlled growth of monodisperse particles, 22:12395 (UR-49-867)
incorporation in tissues, dosimetry following, 25:44900
incorporation into animals and men, 25:37730 (CONF-701047-(Absts.))
incorporation into clay aerosols, performance of ultrasonic-generator for, 22:23246 (LF-38, pp 101-2)
industrial applications of, IAEA program for promotion of, 22:8306
industrial applications of, in Japan, 21:36280
industrial uses in Italy, present and future plans for, 22:8311
industrial uses in Poland, 22:8318
industrial uses in western Europe, health physics regulations for, 22:8312
industrial uses of, conference on, 21:16071 (NEIC-RR-15(Pt.1))
industrial uses of, Euratom program for promotion of, 22:8308
industrial uses of, in Louisiana, review of, 21:10504 (NP-16382)
industrial uses of, in West Germany, 21:14389 (EUR-2776.d)
industrial uses of, review of, 21:10548 (NP-16437)
industrial uses of, survey of, 21:8528 (TID-23474)
ingestion by man in Colombia and Panama for feasibility studies of proposed Atlantic-Pacific interoceanic canal, estimation of, 25:10995 (BMI-171-45)
ingestion by man, model for dosimetry in gastrointestinal tract following, 23:50480(T) (ORNL-tr-2231)
inhalation as insoluble compounds by cyclotron personnel, 24:41872
inhalation by dogs, methods of calculating deposition during, 21:24283 (BNWL-SA-1004)
inhalation by personnel, chemical and physiological methods for removal from lungs following, 24:50864(T) (LF-tr-43)
inhalation by population of Switzerland following a theoretical nuclear weapons explosion, measures for protection against hazards from, 24:21197 (FMB-69-7)
inhalation hazards to personnel, quantitative analysis of, 23:14195
inhalation of aerosols containing, dose and retention calculations for man in continuous, 23:45760
inhalation of biologically active, maximum permissible values for, 21:6497(T) (AEC-tr-6828)
inhalation of reactor inventory, estimation of relative radiation hazards to man from, 25:55202
injection equipment for, design of improved, 23:11697(P)
instantaneous counting rate of short-lived, effect of radioactive decay on, 21:8501
inventory in nuclear medicine laboratories, use of computers for, 22:36307
inventory of ORNL, 24:41615(R) (ORNL-TM-3089)
ion deposition using retardation system, 21:1079(R) (PPAD-593-E)
ion mobility of atmospheric, mass spectrometry study of, 25:461 (NP-18409)
ion mobility of atmospheric, time-of-flight spectroscopy study of, 25:462 (NP-18415)
ion mobility of, time-of-flight measurement of, 25:4395
ion-exchange reactions with soil minerals, effects of organic compounds on, 21:40984
ionization probabilities for beta-emitting, internal, 21:42720
isomeric transition of incorporated, chemical effects from, 24:31436
laboratories for use of, design of, 21:20228
laboratories for use of, in medicine, 21:1786
laboratory for use of, design standard for Type B, 25:32109
leaching from Sedan crater ejecta, environmental effects on, 22:40284 (UCRL-70630)
legislation for use of, in Israel, 22:45593
lifetime analysis of, correction of moment method for finite range of integration for, 22:46847
lifetime frequency functions of, maximum-likelihood estimators for, 21:13904
localization in man for diagnostic purposes, equipment and methods for, 22:40433
localization in tissues, use of focusing collimators for improving resolution of, 22:45608
localization of bone-seeking, 23:14268
management in nuclear medicine laboratories, use of table-top digital computer for, 24:12178
mass extraction rates for, in fallout from 170 kt nuclear explosion crater, 23:31446 (UCRL-71659)
masses of short-lived, method for direct determination of, 25:26547 (CERN-70-30(Vol.1), pp 307-19)
materials management programs for, summaries of research and development, 23:19924 (WASH-1122)
maximum permissible concentration of, in mixtures, formulas for determination of, 21:28497
maximum permissible concentrations for inhaled aerosols of, biological lung model for use in calculations of, 21:8797 (ORNL-4007, pp 211-41)
maximum permissible concentrations of various, in air, 21:30823
maximum permissible limits of, handbook on, 25:37824 (LA-4400)
measurement in dilute solutions, design of system for, 23:7673(P)
measurement of cosmogenic, in rainwater, studies on in-cloud processes by, 24:39068 (BNWL-1307(Pt.1), pp 105-6)
measurement of flow rates in metabolic pathways using, 23:11947 (CONF-671111-, pp 101-13)
metabolic studies of thorium series, 21:4810
metabolism and retention in tissues of personnel following internal contamination, ICRP report on mathematical parameters for, 25:16148
metabolism and toxicity in animals and man, use of whole-body counters for studies of, 23:50486
metabolism and toxicity in developing fetuses and young animals, 24:50674(R) (BNWL-1306(Pt.1))
metabolism and transfer of, ecological factors in, 1967 symposium on, 23:17963 (CONF-670503)
metabolism by brown and green algae, kinetic law analysis of, 23:26670
metabolism by marine organisms, 22:51875 (TID-4060(1st Ed.))
metabolism by marine organisms following waste disposal in seawater, 23:20107
metabolism by marine organisms in relation to contamination, 23:20146
metabolism by organisms, 22:51875 (TID-4060(1st Ed.))
metabolism by organisms in relation to trace element requirements, 24:39450(R) (AECL-3451)
metabolism by periphyton, design of apparatus for continuous measurement of, 21:28341 (BNWL-SA-1254)
metabolism in alfalfa and aquatic plants, 24:11928 (IA-1190, pp 235-56)
metabolism in animals, 25:6605(T) (AEC-tr-7169)
metabolism in animals, use of computers for analysis of counting data from tissues following, 25:10937 (UCRL-50957)
metabolism in aquatic organisms and rats, factors affecting, 21:28338(R) (BNWL-353(Rev.))
metabolism in beagle dogs following injection, 24:705 (COO-119-240, pp 7-85)
metabolism in beagle dogs following injection, 24:50677 (COO-119-241)
metabolism in biological materials, effects of physico-chemical characteristics on, 25:16005
metabolism in bone, effects of circulation, diuretics, oxygen, parathormone, and vitamin D on, 25:4423 (COO-1601-23)
metabolism in caribou, effects of age and sex on, 23:50395 (BNWL-1051(Pt.2), pp 14-17)
metabolism in cattle and poultry, 23:10048(R) (ORO-661)
metabolism in dogs following inhalation, computer simulation of, 24:34026 (LF-41, pp 136-46)
metabolism in goats following inhalation of debris from Plowshare event, fallout, 23:29476 (UCRL-71443)
metabolism in lichens, effects of location and species on, 23:50395 (BNWL-1051(Pt.2), pp 14-17)
metabolism in mammals and man, review on, 25:32326
metabolism in man following inhalation, 23:50461 (PHS-999-RH-33, pp 33-44)
metabolism in man in relation to exposure of personnel, 24:21184(T) (AEC-tr-7131)
metabolism in man, effects of carriers on, 22:51476
metabolism in man, use of whole-body counter for determination of, 21:46999(R) (AERE-PR/HPM-11)
metabolism in man, use of whole-body counting to determine, 22:23526
metabolism of γ-emitting Plowshare fallout, in lactating and pregnant cattle, 25:32325 (UCRL-72511(Rev.1))
metabolism of γ-emitting Plowshare-fallout, following ingestion by beagle dogs and wild swine, 24:50686 (UCRL-72589)
metabolism of, by algae, system for measurement of, 21:14551 (BNWL-280, pp 121-2)
metabolism of, from biological systems, use of power functions in models for, 21:16275
metabolism of, research on, 22:51306(R) (ORAU-106)
methods for analyzing, using digital computers, 24:34477
migration and sorption in soils, liquid waste disposal experiments on, 22:2328(T) (JPRS-42565, pp 12-22)
migration in fresh and salt water, 23:24573 (A-AC-82/G/L-1243)
migration in metal tubes, effects of temperature and time on, 21:43198
migration in soil, EURATOM-ITAL research on, 24:39587(R) (NP-18287)
migration in soils from liquid radioactive waste disposal, 22:2332(T) (JPRS-42565, pp 67-81)
migration in soils, distribution and dispersion coefficients for, (E), 22:10372

migration of fallout, in forest plantations, 25:52011 (A/CONF.49/P-685)
mobility in soils, desorbing effects of leaf extracts from ligneous plants on, 24:7779
monitoring environmental, in Scandinavia during 1965 and 1966, 22:16704 (A-AC-82/G/L-1159)
monitoring in air in laboratories, method for, 25:46859
monitoring in air, equipment and procedures for, 25:23527(P)
monitoring in aquatic ecosystems, 21:43355
monitoring in atmosphere, animal bones, fallout, foods, soil, and water in environment of ISPRA, programs for, 24:23194 (EUR-4412)
monitoring in bottom sediments of Clinch and Tennessee Rivers, 21:3174(R) (ORNL-3941)
monitoring in environment at Japan Atomic Energy Research Institute during 1967, 23:18023 (JAERI-5017, pp 70-6)
monitoring in environment of Mound Laboratory in Ohio during 1969, 23:43758 (MLM-1615)
monitoring in Finland, 1967 annual report on, 23:33694(R) (SFL-A-12)
monitoring in reactor fuel elements, description of variable-length flexible pipe for external-core, 22:37584(P)
monitoring in sodium reactor coolants, for detection of fuel element failure, 25:4736(R) (ANL/ST-3)
monitoring in surface air at selected sites, monthly data on fallout, 24:21100(R) (HASL-217(App.))
monitoring of atmosphere over central USA following atmospheric nuclear tests in Southern Hemisphere, 23:50459(R) (HASL-204)
monitoring of environment of Richland, Washington, 23:29464 (BNWL-983)
monitoring of industrial, in Great Britain, 22:45554
monitoring of internally-deposited, in personnel in Germany during 1968, statistical evaluation of, 24:23183 (NP-18122, pp 105-25)
monitoring of internally-deposited, in personnel, design of mobile whole-body counter for, 23:31758
monitoring of personnel handling, using whole-body counters, 24:27594 (CONF-690540-, pp 397-406)
monitoring of, equations for, measurement of blood flow externally by, 21:10736
monitoring of, in food and water supplies, methods for, 21:5761 (PHS-999-RH-17)
monitoring program for, in North Carolina, 22:51603
movement in forest ecosystems, review of effects of, 22:47499
movement in ground waters on Amchitka Island following Project Milrow, models for, 24:22770 (NVO-1229-135)
movement in Perch Lake basin, underground, 25:37728(R) (AECL-3860)
movement in Project Rulison cratering site ground waters, prediction of, 24:22769 (NVO-1229-131)
movement in rivers, mathematical model for calculation of, 23:11649
movement in soils, effect of aeration on, 22:16805
movement in tropical environment, design of compartment model for representing, 21:26417 (ORNL-4101)
movement through aquatic food chains, 25:21619(R) (ORNL-4634)
natural and artificial, history of tracer techniques using, 21:17784
neutron absorption cross sections in thermal reactor spectra, method for measuring, (E/T), 22:20405 (CONF-680307-17)
neutron cross sections for, thermal, 25:54692(R) (NYO-3417-15)
nomenclature of, for use in activation analysis, 21:4470
nuclear data for, used in activation analysis and gamma spectroscopy, 24:4240 (IEA-INF-10)
nuclear data tabulations, (E), 21:44657
nuclear electric quadrupole couplings of β-emitting, method for measuring, (T), 23:23777
nuclear moments and spin of, method for measuring, 22:30048(R) (PUC-937-307)
nuclear polarization of short-lived, using optical pumping, (E), 22:46752
nuclear properties and decay of, dissertation summary of research on, (E), 22:50648
nuclear properties and reactions of, review of, 21:31778 (NAS-NRC/Pub-1292-C)
nuclear properties of, 22:25243 (UJV-1916)
nuclear quadrupole moments of, measurement using repolarization of nuclear spins in magnetic fields, (T), 22:7743 (NYO-2028-2, pp 106-20)
nuclear transformations of, review of chemical effects from, 22:27741 (BNL-12361)
occurrence in lunar materials, 21:42964(R) (NYO-844-71)
packaging and uses of, in industry, 23:50045
packaging for, design of expendable, 21:30674
packaging for, design of IAEA Types A and B, 22:28043
penetration into skin of miniature swine following application to surface, factors affecting, 25:46677
performance of, comparison of particle accelerators and reactors with, 22:30365
permeability of membranes for, kinetic analysis of, 22:40611
photons from, industrial control and measurement using low-energy, 24:29448
polarization of short-lived beta-emitting, by optical pumping, (E), 21:38282
polarographic behavior of, method for studying, 23:11512
positron emission by, search for low-intensity, 22:27258
precipitation from aqueous solutions and fused salts, 22:10346
precipitation with hydrated titanium oxide, 22:42811 (HMI-B-69)
preparation and examination of new, review on methods for, 24:16005
preparation and purification of, 23:19775(P)
preparation and sales by ORNL during first quarter 1970, 24:29443(R) (ORNL-TM-2985)
preparation and sales during Oct. to Dec. 1969, 24:19165(R) (ORNL-TM-2889)
preparation for medical diagnosis, pyrogenic effects of sterilization method on, 23:45827
preparation for medical use, guide for, 22:51675 (TID-24457)
preparation for nuclear spectroscopic analysis, 23:35416 (KURRI-TR-10, pp 150-9)
preparation of colloids of, effects of hydroxide solubility products on, 25:54695
preparation of culture media containing, for tracer studies, 21:8564 (DP-1081)
preparation of films of short-lived, by electrodeposition, 23:24261
preparation of films of, using molecular plating, 21:5975
preparation of radiation targets of, methods for, 25:59635 (CONF-711002-, pp 91-100)
preparation of radiochemically pure standards of, 21:25928 (UJV-1633)
preparation of samples containing, for tracer studies, combustion equipment for, 25:44407(P)
preparation of samples for alpha spectroscopy, methods development for, 21:40675(R) (IN-1083)
preparation of solutions of daughter, from parent radioisotopes, design of closed system for, 25:8433(P)
preparation of standard solutions of, methods for, 23:28934
preparation of sterile, apparatus for, 23:28982(P)
preparation of thin radiation sources of, electrostatic ion-optic method for, 24:39157
processing and recovery of underground nuclear explosion-produced, economic study of, 24:41536 (CONF-700101-(Vol.2), pp 1295-1305)
processing of, design and operation of ORNL facility for, 25:6520 (ORNL-TM-3225)
production and analysis of short-lived, at JINR proton synchrocyclotron, equipment for, 22:26736 (JINR-P6-3773)
production and availability of, user's guide to, 23:50040 (ORNL-IIC-19)
production and containment of, design of generator and container for, 23:31492(P)
production and control of, in Pakistan, 21:28013
production and decay in neutron capture, equations for, 23:13307 (HW-SA-3769)
production and decay of, design and performance of hybrid computer for calculations of, 22:407
production and detection in neutron activation analysis, 22:49410
production and development at Kjeller, summary, 21:2864(R) (KR-109)
production and development of, 23:29621
production and distribution between July 1969 and July 1970 in Australia, 25:24188(R) (NP-18727)
production and distribution in Canada during 1968—1969, 23:37358(R) (AECL-3326)
production and industrial uses of, abstracts of worldwide publications on, April to June, 1969, 23:50041 (ORNL-IIC-22(Pt.2))
production and industrial uses of, bibliography of non-U. S. literature on, 21:8527 (ORNL-TM-1505(Pt.3))
production and industrial uses of, bibliography of non-U. S. literature on, 21:36263 (ORNL-TM-1940(Pt.1))
production and industrial uses of, selected abstracts of non-U. S. literature on, 22:42974 (ORNL-TM-2223(Pt.2))
production and industrial uses of, selected abstracts of world literature on, 25:54894 (ORNL-IIC-37(Pt.2))
production and marketing of, predictions for, in 1980, 22:16633
production and processing of, 24:52632
production and properties of, for use in radiography, 25:34841
production and research uses of, historical review of, 21:17785
production and research uses of, review of, 21:17782
production and research uses of, review of, 22:10521
production and sale of, review of UKAEA, 21:42867
production and sales at ORNL, in 1966, 21:39129 (ORNL-4155)
production and sales of, 22:16637
production and sales of, by UKAEA Radiochemical Center, 23:13960
production and sales of, in France, 22:16635
production and separation in on-line separators, determination of production cross sections for, 25:50273
production and separation in on-line separators, transfer times for, 25:50272
production and separation of useful, advantages of space environment for industrial, 24:2404
production and services in Australia, 1968-1969, 24:4187(R) (NP-18051)
production and shipment of, in 1968, Japanese program for, 24:11735(R) (JAERI-5023)
production and technology of, review of Swedish, 21:19719
production and use in agriculture, geology, industry, and medicine in USSR, conference on, 24:19175
production and use in France, 21:45155
production and use in Japan, review of biological, industrial, and medical, 22:31155
production and use in Japan, review on, 25:18607
production and use of short half-life, 25:34802 (BNL-50249)
production and use of, in Spain, 1964-1965, 22:16639
production and uses at Inst. of Phys. and Chem. Research, Japan, 1969, 24:52563(R) (NP-18217)
production and uses at Mol, Belgium during 1969, 25:37542 (NP-18809, pp 5.1-4)
production and uses in Argentina, 22:33189(R) (NP-17470)
production and uses in Australia, 25:39619 (CONF-710511-4)
production and uses in German Democratic Republic, 24:14182
production and uses in India, review of, 24:29459
production and uses in industry, medicine, and research, 1969 activities of Isotopes Information Center projects on, 24:33846 (TID-25372)
production and uses in Japan, 24:41624
production and uses in Latin America, 24:39143 (PRNC-135, pp 73-6)
production and uses in medicine, 24:48627
production and uses in Norway, 22:16356 (KR-116)
production and uses in Spain during 1965 and 1966, data tabulations on, 23:24384 (CONF-670649-17)
production and uses in Spain, 1965 and 1966, 23:24390(T) (NP-tr-1744)
production and uses in U.S. review on, 25:48532
production and uses in U.S., review of, 25:37538 (A/CONF.49/P-840)
production and uses in US, 1946 to 1971, review on, 25:48752
production and uses in USSR, 23:31483(T) (JPRS-47922)
production and uses in West Germany, 1964 to 1970, 25:21248
production and uses of new, 22:16637
production and uses of transuranic, survey of, 23:532
production and uses of transuranium, review on, 22:30614
production and uses of, abstracts of non-US literature on, 23:9652 (ORNL-TM-2223(Pt.3))
production and uses of, at ORNL, progress review on, 24:14169(R) (ORNL-TM-2876)
production and uses of, bibliography of non-U. S. literature on industrial, 23:17695 (ORNL-TM-2223(Pt.4))
production and uses of, bibliography on, 23:38182 (ORNL-IIC-22(Pt.1))
production and uses of, bibliography on, 22:30774 (ORNL-TM-2223(Pt.1))
production and uses of, bibliography on industrial, 22:14674 (ORNL-TM-1940(Pt.2))
production and uses of, by USAEC and industry, review of, 21:39143
production and uses of, capabilities of ORNL Isotopes Information Center for disseminating information on, 23:50042 (ORO-667)
production and uses of, developments in, Oct. 1 to Nov. 30, 1969, 24:7590(R) (ORNL-TM-2807)
production and uses of, Div. of Isotopes Development research on, 1967, 22:47294(R) (TID-24349)
production and uses of, in Australia, 21:2827(R) (NP-16359)
production and uses of, in France, review on, 24:31364
production and uses of, in Spain in 1965 and 1966, 22:14728
production and uses of, in U. S., review on, 24:31363
production and uses of, ORNL Isotopes Information Center activities related to, 24:39150 (PRNC-135, pp 399-410)
production and uses of, progress review on, 23:16049
production and uses of, radiation monitoring problems associated with, 24:20956
production and uses of, research progress on, 25:54887(R) (BNWL-1308-6)
production and uses of, review of USAEC program for, 25:51727
production and uses of, review on, 23:50062
production and uses of, review on, 24:11740
production and uses of, selected abstracts of world literature on, 24:31594 (ORNL-IIC-30(Pt.1))
production and uses of, selected abstracts of world literature on, 25:331 (ORNL-IIC-30(Pt.2))
production and uses of, summaries of USAEC Division of Isotopes Development programs for, 23:13952 (TID-24823)
production and uses of, technical progress review on, 22:10523
production as function of demand, optimization of reactor irradiation schedule for, 23:45304 (CNM-R-2(Vol.1), pp 375-89)
production at AEC laboratories, 25:46533 (CONF-700646-, pp 85-9)
production at Hahn—Meitner Institute, Berlin, 22:6312 (HMI-B-52)
production at ISOLDE, target chemistry in, 25:44401 (BMBW-FBK-70-28, pp 146-57)
production at Israel AEC, 22:48806(R) (IA-1168)
production at Japan Atomic Energy Research Institute, 1963 to 1968, 24:31608
production at Japan Atomic Energy Research Institute during 1969, 25:34804(R) (JAERI-Memo-4285)
production at Juelich Nuclear Research Center, 24:36537 (JUL-603-ST, pp 139-42)
production at Lucas Heights, Australia, five-year program for, 21:27991 (AAEC/TM-360)
production at NPR, 21:12252
production at ORNL, 1946 through 1965, 21:17794
production at Pakistan Institute of Nuclear Science, equipment and methods for, 25:8449 (CONF-691008-18)
production at Sorin Nuclear Research Center, technical and organizational problems in, 22:8315
production by (n,γ) reactions, target purity control for, 24:19032
production by 200-MeV protons, 24:44056 (BNL-50205, pp 78-92)
production by accelerators for clinical studies, 21:39472
production by Aspara Reactor of, description of, 23:15677 (NP-17764)
production by Brazilian Institute of Atomic Energy, research on, 24:11734 (IEA-159)
production by bremsstrahlung beam produced by electron linear accelerators, 21:38119
production by charged particle bombardment, terminology for, 24:2400 (UJV-2258-Ch)
production by charged-particle bombardment, quantities and units used in expressing yield of, 25:32008

production by charged-particle irradiation, definition of terms used in, 25:15704
production by contained underground nuclear explosions, mechanisms of, 24:48202(T) (UCRL-Trans-10475)
production by cosmic rays, use as tracers of atmospheric precipitation, 22:40250 (AECL-2787, pp 567-80)
production by cyclotrons and reactors, comparison of, 24:19166(T) (ORNL-tr-2223)
production by decay of other radioisotopes, chromatographic elution following, 23:35131 (HMI-B-81)
production by electron reactions with iron at 40 MeV to 16 GeV, (E), 24:52566(R) (ORNL-4534)
production by fast neutrons in research reactors, irradiation capsule for, 23:47248 (CNM-R-2(Vol.2), pp 909-26)
production by IRR-1 during 1965, 21:8041 (IA-1082, pp 1-19)
production by irradiation of targets, calculation of optimum conditions for, 23:28889
production by Japanese Atomic Energy Research Institute Radioisotope Center, April 1967 to March 1968, 23:26455(R) (JAERI-5020)
production by Linac dynamic booster in relation to application, 25:13548
production by national laboratories in Canada, 22:25612 (AECL-2782)
production by neutron activation, history and potential of US, 22:8316
production by neutron irradiation, chemical processes in, 23:38000
production by neutron-induced reactions in Plowshare explosions, cross section data on, 25:48686 (UCRL-73022)
production by nuclear explosion for excavation of isthmian canal, specific activity method for calculating, 24:23153
production by photonuclear reactions in electron bombardment of aluminum and iron, 24:52528
production by proton reactions with aluminum, copper, and iron at 40 and 60 MeV, cross-section excitation functions for, (E), 21:46704
production by reactions of cosmic-ray-induced mesons (μ^-) with material at ground level, 21:42964(R) (NYO-844-71)
production by reactions of primary and secondary particles with machine components in high-energy proton accelerator, 22:1545
production by spallation using 200-MeV protons, activities and cross sections for, 24:50421
production by spallation using Brookhaven Linac, 25:46529 (CONF-700646-, pp 10-11)
production by thermonuclear explosions, method for, 21:30567(P)
production by underground nuclear explosions used to excavate Isthmian Canal, 23:21849
production by underground nuclear explosions, mechanisms for, 23:21846 (UCRL-71434)
production by underground nuclear explosions, method for calculation of, 24:22838 (SWRHL-82, pp 207-22)
production by US power reactors through 1990, 22:45245 (BNWL-716)
production capabilities in Europe, 22:49033
production cross sections for, in heavy-ion induced fission, 25:5756
production facilities in Hungary for, design of exhaust systems for, 22:42943
production for industrial use, 22:23226
production for medical diagnosis, use of cyclotron for, 24:8782(T) (LIB/Trans-238)
production for medical diagnostic and therapeutic uses, 23:20300
production for medical use, cyclotron target designs for, 25:17644
production for medical uses, design of cyclotron for, 23:12149 (NYO-910-75, pp 46-84)
production for medical uses, design of isotope generator for, 25:54909(P)
production for nuclear batteries, 24:39035
production for nuclear medicine, cyclotron facility for, 25:33922
production from irradiated nuclear fuel, 24:22687
production from power reactor fuels, economics of, 22:49032
production from relatively abundant natural elements in accelerator laboratory, 21:27465 (N-67-11359)
production in 60-in. cyclotrons, computation of, 21:13744 (AD-639919)
production in ASTRA research reactor in Austria, review of, 25:29274
production in Australia, 22:42761
production in Australia from July 1968 to July 1969, 24:50525
production in Australia, review of history of, 24:31609
production in Belgium, 23:214 (NP-17579, pp II.1-5)
production in Belgium during 1966, 23:28561(R) (NP-17819)
production in Belgium during 1969, 25:39226(R) (NP-18809)
production in BNL accelerator, 25:46528 (CONF-700646-, pp 8-9)
production in Canada, economics of, 22:16638
production in center of control elements, use of epithermal and fast neutrons for, 22:25176(P)
production in COMECON states, review on, 25:4128
production in commercial power reactors, economic potential for, 22:8317
production in commercial power reactors, status and potential of, 25:7933 (AECOP-561)
production in compounds by Szilard—Chambers reactions, 24:41312 (COO-1618-17)
production in concrete accelerator shielding, 21:2543 (CERN-66-28)
production in cyclotrons for nuclear medicine, 25:4683
production in cyclotrons for use in clinical studies, short-lived, 23:50701
production in cyclotrons, development of rotating targets for, 24:15751
production in cyclotrons, development of stationary targets for, 24:15752
production in cyclotrons, review on, 23:35418 (UJV-2115-Ch)
production in Czechoslovakia, 22:16634
production in East Germany, 24:16789(T) (ORNL-tr-2227)
production in East Germany, review of ten year's, 23:6168
production in France, 1967 summary of, 23:2518 (NP-17597, pp 97-108)
production in geosphere by cosmic radiation, (T), 22:5177
production in HTR reactor of, description of, 22:47031
production in Hungary, equipment and methods for management of radioactive wastes from, 24:31651
production in IAN-R1 Reactor, 22:40321 (IAN-Q-6)
production in IPhPE cyclotron, data tabulation on, 25:17645
production in IPhPE cyclotron, target designs for, 25:17645
production in Italy for medical uses, review of, 25:29273
production in neutron induced reactions, semiempirical cross sections for, 23:13313 (UCRL-50484)
production in power reactors, economic evaluation of, 23:38173(R) (BNWL-1085)
production in power reactors, feasibility of, 22:8313
production in processing of spent fuels, 21:32221 (BNWL-389)
production in proton reactions with meteoritic elements at 0.5 to 2.9 GeV, (E), 23:1793
production in reactor control rods, design of irradiation capsule for, 22:48774(P)
production in reactors, calculations and nomograms for, 24:31591 (IAN-ARI-2)
production in reactors, control rod design for, 21:19514(P)
production in reactors, historical review of, 21:17787
production in reactors, Pontryagin's principle for calculating minimum cost for, 22:20929
production in reactors, Pontryagin's principle for calculating minimum cost for, 22:20928
production in research reactors, in Yugoslavia, 25:54178 (A/CONF.49/P-348)
production in research reactors, review of, 23:47251 (CNM-R-2(Vol.3), pp 1230-6)
production in research reactors, target preparation and processing for, 25:29275
production in South Africa, 22:39837
production in spent power reactor fuel elements of, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
production in SURFSIDE dual purpose desalination and power reactor, economics of, 23:43182 (CONF-670338, pp 19-33)
production in Sweden, review of, 21:19862
production in swimming-pool reactors, target containers for, 21:45321
production in target ion-loaded ion exchangers by neutron irradiation, 22:40141
production in USAEC reactor facilities, computer model for cost effectiveness analysis of, 23:15706 (DP-MS-67-98)
production in USSR, equipment and methods for, 23:50056
production in West Germany, methods and status of, 25:8429(T) (ORNL-tr-2400)
production in WWR-S at Rez, description of, 22:44900 (UJV-1906)
production methods for, historical review of ORNL work on, 21:17789
production of, 23:26267 (NP-17819, Chap.2)
production of, 22:23080
production of, 23:43240 (NP-17899)
production of, 22:6313 (HMI-B-53)
production of, 22:30588(R) (HMI-B-66)
production of alpha-emitting, in proton reactions with gold-197 at 20 GeV, (E), 21:12049
production of β-emitting, by isochronous cyclotron, 21:39479
production of carrier-free, 22:25243 (UJV-1916)
production of carrier-free, by alpha or deuteron reactions in cyclotrons, 24:13976
production of carrier-free, by recoil reactions and volatilization, 25:181 (KFK-1257)
production of cosmogenic, by spallation of atmospheric argon at 3 to 19 km altitude, (E), 25:37499 (BNWL-1551(Pt.2), pp 35-45)
production of cosmogenic, by spallation of atmospheric argon, (E), 25:37498 (BNWL-1551(Pt.2), pp 27-30)
production of gamma-emitting, at LAMPF, 25:50197 (CONF-710402-(Vol.2), pp I.128-35)
production of gaseous and solid, by underground nuclear explosion in Sahara granite, 24:50487
production of gaseous, from neutron-irradiated targets, 25:57485(P)
production of heat sources of, by neutron irradiation method, 22:33606
production of heavy, by underground nuclear explosions, Project Plowshare studies of, 24:41534 (CONF-700101-(Vol.2), pp 1269-82)
production of heavy, in nuclear explosions by multiple neutron capture on uranium-238, (E), 24:27280
production of high-purity deposits, equipment for, 21:3132
production of high-specific-activity, by neutron irradiation of metal complexes with 2,4-pentanedione, 23:45303 (CNM-R-2(Vol.1), pp 357-60)
production of highly unstable, comparison of methods for, 22:30113
production of medium- and short-lived, in research reactors for use in biological and medical studies, 25:18886
production of monodisperse aerosol-incorporated, for inhalation studies, 22:43300 (AERE-PR/HPM-12)
production of neutron-deficient, by irradiation of rare earth complexes of DTPA with high-energy protons, 22:40105 (JINR-P12-3887)
production of nongaseous, in Project Gasbuggy, 23:21841 (PNE-G-30)
production of residual, in iron-covered copper cylinders by 3-GeV protons, 24:44203
production of short-lived, at Philippine Atomic Research Center, 21:17667
production of short-lived, by cosmic rays, 21:6058
production of short-lived, by neutron irradiation, 23:35032
production of short-lived, design of circulating liquid metal target for proton synchrotron for, 22:30115
production of short-lived, for use as tracers in medical studies, use of reactors for, 25:39891
production of short-lived, for use in biology and medicine, 22:27742 (BNL-12405)
production of short-lived, for use in therapy, installation of isochronous cyclotron for, 24:4657
production of short-lived, generator for, 22:33611
production of short-lived, generator model for, 22:23228
production of short-lived, in research reactors for diagnostic use, 25:10943
production of short-lived, milking system for, 22:2091 (BNL-11849)
production of short-lived, of TRIGA reactor in Germany for use in medicine, 24:34485
production of short-lived, portable antimony—beryllium neutron source for, 22:14699
production of short-lived, use of cyclotrons for, 21:19104
production of short-lived, using photonuclear reactions, (E), 22:39552 (RPI-328-123, pp 64-72)
production of ultra-short-lived, for medical uses, 24:44056 (BNL-50205, pp 78-92)
production of, 1968 Belgian activities on, 24:9079(R) (NP-18052)
production of, 1969 status of USAEC projects on, 24:33846 (TID-25372)
production of, bibliography on, 21:14391 (ORNL-TM-1505(Pt.4))
production of, catalogue from Radiochemical Center, Amersham, England, 21:19712
production of, chemicals and radiochemical quality control in, 22:4212
production of, conference on new methods for, 25:29413 (CONF-691225)
production of, cost minimization in, 23:7565
production of, cyclotron target designs for, 25:17650
production of, description of facilities for, 21:45320
production of, description of methods for, 22:37939 (WASH-1095)
production of, facilities and equipment for, 25:34816
production of, French programs for, 22:8314
production of, historical review of, 21:17788
production of, in Euratom, 21:14129(R) (NP-16468(Vol.2))
production of, in Yugoslavia, 24:19044 (IBK-832)
production of, method for, 23:40954(P)
production of, minimum-cost policy for, 21:36001
production of, optimization of reactor irradiation schedules for, 23:325
production of, optimum irradiation conditions for, 25:8308
production of, performance of swimming pool reactors for, 24:4409 (IEA-158)
production of, properties of aluminum oxide for use as adsorbent in, 25:41991 (JAERI-13778)
production of, quality control methods for, 24:20950(R) (ORNL-TM-2910)
production of, review of 1967, 23:2519 (ORNL-4329)
production of, review of AEC program for, 25:46526 (CONF-700646-, pp 1-3)
production of, review of large-scale, 21:45154
production of, review on, 25:26316
production of, safety design criteria for facilities at AECL, Ottawa for, 24:31543
production of, safety measures in, 23:20300
production of, sorptive properties of aluminum oxide for use in, 24:27836
production of, status of capability and technology for, 24:31420
production of, use of computers for calculation of variables in, 21:8526 (ORNL-3905)
production of, use of inorganic ion exchangers in, 25:41879 (JAERI-13726)
production of, use of Pontryagin's maximum principle for determining optimal costs in, 21:36276
production of, use of scanners in, 21:6564
production of, use of silicate ion exchangers in, 22:139 (HMI-B-54)
production of, use of Szilard—Chalmers reaction in, 21:30486
production technology programs at ORNL for, 25:46532 (CONF-700646-, pp 82-4)
production using synchrocyclotron, 24:20793(T) (ORNL-tr-2006)
production using thermal neutron reactions, self-shielding effect in, 24:28687
production, applications, and availability of, bibliography on sources of information on, 22:10504 (ORNL-IIC-12)
production, import, and uses of, in Germany, 21:4674
production, sales, and uses in US, 1968, 23:7703
production, sales, and uses in US, review of 1969, 24:16791
progress report of U.S. Health, Education, and Welfare Division of Biological Effects, 1968, 23:33804(R) (PHS-PUBL.-1809)
properties and suppliers of commercially available, Radioisotopes Product Directory for, 24:7598
properties and uses of, 24:13989
properties and uses of, review on, 24:11738
properties as particulates and volatiles, 21:28585(R) (BNWL-247)
properties for electric power generation, 21:26080

properties for use as heat sources, 24:16803
properties for use as heat sources in thermoelectric generators, review of, 22:12547
properties for use as heat sources, tabulation of, 22:14729
properties for use in biochemical probe for extraterrestrial life, 23:9790(R) (N-66-39688)
properties for use in diagnosis and therapy, 25:32437
properties for use in electric energy generation, 22:6543
properties for use in geology and mining, 23:38098
properties for use in power sources, 24:39159
properties for use in thermoelectric generators, 23:16045
properties of actinide, as heat sources for isotopic power generators, 24:2397(T) (ORNL-tr-1495)
properties of colloids of microquantities of, 21:27974
properties of natural and synthetic, discussion of, 22:25911
properties of research reactor-produced, summary of, 25:29275
properties of transuranium, for use as heat sources for space power systems, 24:5819
properties of, chemical and radiochemical, 21:36022
properties of, combined with electric heater for heating rocket propellant, 23:50054(P)
properties of, facility for study of, 21:9202 (RFP-658, pp 84-96)
properties of, for use in gamma detector calibrations, 23:11756 (EGG-1183-1401)
properties of, used in power production, 23:530 (N-68-29959)
protection of personnel against, recommendations for, 24:737
protection of pregnant medical personnel against, 22:25841
protection standards in laboratories in Italy, 23:12078
proton decay of, conference on, 21:46720 (JINR-P7-3202)
purchasing and distribution in Commonwealth, procedures for, 22:49324(R) (NP-17266)
purification and separation of, use of tube migration with temperature gradient for, 21:43198
purification by solvent extraction, standard addition method for, 22:23116
purity of, methods for control of, 22:4212
purity of, use of gas chromatography to control, 24:50321
quality control of, 22:14433 (ORNL-4196, pp 66-89)
radiation dose from, method and unit for calculation of permissible, 22:45547
radiation dose to human population from internally deposited, estimates of present and future, 25:44810
radiation dose to personnel handling, monitoring of, 23:6467
radiation doses emitted by, need for standards in USA for, 25:39864
radiation dosimetry of nonuniformly distributed internal, mathematical formula for γ, 23:2919(R) (ANL-7409)
radiation energy of, tabulation of, 21:36022
radiation equivalent dose of incorporated, calculation of, 23:20174(T) (ANL-Trans-717)
radiation hazards during handling, 21:1753
radiation hazards from, following reentry of isotopic—fueled space vehicle, criteria for evaluating, 23:50066
radiation intensity distribution from, device for measuring and displaying, 22:23362(P)
radiation monitoring of packages used for transportation of, 22:45567
radiation protection of personnel and public from, during demonstrations, 22:45584
radiation protection of users of, in Italy, 24:20959
radiation protection programs of commercial producers of compounds labeled with, in USA, evaluation of, 25:29527 (NP-18791)
radiation rate factor calculations for γ-emitting, 21:1750
radioactivity growth-decay data from, least square analysis of, 22:33634 (AD-665666)
radioecology of lanthanide, physico-chemical aspects of, 23:43715 (CEA-Bib-138)
ratios in double tracer experiments, equation for determining, 21:39342
reactions of recoil isomeric, from uranium bombardment by 450-MeV protons, 23:21330(R) (COO-1167-6)
reactions of recoil, mechanisms of, 21:137
reactions of, effects of products from self-radiolysis on, 24:38859
reactions with Columbia River sediments, 21:15998
reactions with organic compounds, 22:12798
recovery and study of heavy, produced in Hutch Event, 24:41535 (CONF-700101-(Vol.2), pp 1283-94)
recovery during first year of TRU operation, 21:39077 (ORNL-P-3229)
recovery from biological materials, after ashing, 23:29305
recovery from wastes at West Valley fuel processing plant, 22:27859 (NP-17418)
regulations for shipping of, IAEA, 22:17025
regulations of licensing and use of, recommendations of Radioisotopes Licensing Review Panel on, 22:31098
regulatory control of accelerator-produced, in USA during 1969, 25:58028 (BRH/DMRE-71-4)
release by pressurized water reactors, environmental radiation dose from, (T), 25:34395
release from nuclear power plants during normal operation, compilation of, 25:16175
release of long-lived, to Clinch River, five year study of, 21:22117 (ORNL-4035)
release of, from reactors, effects of meteorological conditions on contamination from, 21:14326 (BNWL-SA-1058)
release to atmosphere during operation of nuclear power plants, 25:52043 (A/CONF.49/P-684)
release to biosphere, method for calculation of radiation dose to man following, 25:26751 (UCRL-50163(Pt.7))
release to environment by nuclear power plants, hazards to human populations from, 25:52050
removal from animals, use of chelates and ion exchangers for, 22:51669
removal from body of man, use of complexing agents for, 21:26449
removal from building materials, method for, 24:36749 (JUL-603-ST, pp 223-6)
removal from cloud droplets, parameters for, 23:17604
removal from fabrics by various solvents, 22:6794 (CEA-R-3159)
removal from human body, review of, 22:31058 (BNWL-SA-1511)
removal from man, rules for clinical and therapeutic procedures for, 25:18975 (CEA-N-1365)
removal from milk, effects of use of ion exchange processes on nutritional value of milk, 21:34663
removal from milk, effects of use of ion exchange process for, on chemical composition and vitamin content, 21:34664
removal from personnel at Juelich research reactors, methods for, 24:36745 (JUL-603-ST, pp 143-50)
removal from skin of man, methods for, 23:50473
removal from skin of man, testing of detergent mixtures for, 22:6820
removal from surfaces, efficiency of water vapor jet for, 22:31114
removal of, methods for external and internal, in man, 21:4801
research at Commissariat a l'Energie Atomique, 23:47815(R) (NP-17994)
research at Tunisian CEA, 21:26066(R) (NP-16474)
research at Utah University, annual report of, 23:11975(R) (COO-119-237)
research by Danish Atomic Energy Commission, 1967-1968, 23:13604(R) (NP-17754)
research in beneficial applications of, 22:51875 (TID-4060(1st Ed.))
research in New Zealand, 24:9709(R) (INS-343)
research in United Kingdom, 21:2826 (NP-16347)
research in, bibliography of recent publications on, 23:50459(R) (HASL-204)
research on application of, at Case Western Reserve during 1969-1970, 24:41755(R) (COO-78-220)
research on biological, chemical, and physical aspects of, in seawater at IAEA laboratory, 24:34227
research on short-lived, using on-line isotope separator, (E), 22:20646
research on, summaries of USAEC Division of Isotopes Development-sponsored, 25:23742 (TID-4066)
research program at ORNL, review of 1966, 21:39129 (ORNL-4155)
research program for, design of laboratory facilities for, 23:24341 (CONF-670649-39)
research programs in, review of, 21:27467(R) (NP-16698)
research progress on, 25:39521(R) (HMI-B-107)
research progress on, in Japan, 22:30420
research progress on, in Sweden, 23:47480
retention and excretion by peccaries following ingestion of debris from Schooner Event, 25:55124
retention and excretion of slightly soluble, following inhalation, functions for calculation of whole-body, 25:24031
retention by animals, similarity-ratio for interspecies comparison of, 24:31879 (BNWL-1050(Pt.2), pp 1.13-15)
retention by bone, stochastic theory for kinetics of, 21:26327 (ANL-7220, pp 42-8)
retention in bone, mechanisms for classification of bone-seeking, 23:38428
retention in lungs following inhalation, evaluation of models for, 24:27509 (CONF-691001-, pp 103-19)
retention in lymph system of man, use of ICRP lung model for estimation of, 21:32639 (CONF-661018, pp 74-86)
retention in man following diagnostic and therapeutic use, profile-scanner instrumentation for measurement of, 23:35464 (ORAU-107, pp 254-7)
retention stability on rocks, kinetic studies of, 22:16802
retention time in human organs, computer calculation of, 23:9940 (ORNL-4316, pp 271-94)
review of tracer use in research on mineral metabolism of domestic animals, 24:25378
review of use in agricultural research in France, review of, 24:25599
review of use in pharmacology, 24:9873
review of use of, in biology and medicine, 23:24503 (CONF-670649-25)
rhodium-102 separation from mixed, in algal and soil samples, ion exchange method for, 23:933(R) (NIRS-6)
role in biophysics, review of energetics and kinetics of, 24:50696
safety considerations in use of, 24:22438
safety of, in industry, 21:4795 (NP-16352)
safety standards, publication of international atlas on, 23:2842
safety testing of sources of, 21:39129 (ORNL-4155)
sales and shipments of USAEC-produced, list of Fy 1970 customers for, 25:18593 (ORNL-IIC-32)
sales by ORNL, list of orders for, 24:20950(R) (ORNL-TM-2910)
sales during fiscal year 1966 by AEC facilities, summary of, 21:43192 (ORNL-IIC-9)
sales of USAEC-produced, FY 1968 customers list for, 23:9651 (ORNL-IIC-17)
sampling for, in surface waters, equipment design for continuous, 21:5763 (TID-22381)
sampling of short-lived activation, in stack effluent of BGRR, 22:16266 (BNL-12169)
sampling, design of remotely controlled holder for multiple pipets for, 21:43120(P)
scanning of, computer program for simulation of, 21:404
scanning of, modification of commercially available scanners for simultaneous, 21:36439
scanning with digital-computer analysis of data collected by, 21:16372 (COO-1472-11)
scanning with, statistical methods for, 21:1660
scavenging from atmosphere by precipitation, measurements of, 24:48184
scavenging from atmosphere, mechanisms for, 24:39082
scintiscanning in human organs, 22:40804
selection criteria for and availability of, for use in European power generators, 21:26095
selection for isotopic electric generators, criteria for, 21:26110
selection for low power electric energy generation in charged particle collection system, 21:26115
selection of pharmaceutical-incorporated, for use in medical diagnosis, 24:50963 (CONF-691212-, pp 453-62)
separation and chemical identification of short-lived, method for continuous, 22:140 (JINR-D6-3281)
separation and chemical identification of short-lived, method for continuous, 22:40051(T) (ANL-Trans-632)
separation and purification of, solvent extraction method for, 21:39129 (ORNL-4155)
separation at high temperatures, design of ion source for electromagnetic, 24:2392 (CEA-CONF-1303)
separation at ORNL, review of methods for, 25:44514 (BMBW-FBK-70-28, pp 176-96)
separation by chemical and nuclear methods, 25:57521 (KURRI-TR-76, pp 15-18)
separation by chromatography, automation of, 25:54727
separation by column-chromatography, detector system for continuous monitoring in, 23:4823
separation by evaporation in vacuum, 22:23096 (INP-584/PL)
separation by evaporation in vacuum, 23:2380(T) (ORNL-tr-2013)
separation by extraction chromatography, mathematical assessment of reagents and procedures for, 25:46559
separation by high-voltage electrophoresis, 24:39013
separation by ion exchange using zones of inorganic ion exchangers, 23:26336
separation by ion focusing in electrophoresis, 24:44082
separation by isotopic ion exchange in activation analysis, 21:36092
separation by on-line mass spectroscopy, 25:10670 (LYCEN-7034, pp 23-33)
separation by precipitation with isomorphous and nonisomorphous carriers from fused salts, 22:10346
separation by reversed phase paper chromatography, use of 2-thenoyltrifluoro acetone extractant for, 23:933(R) (NIRS-6)
separation by zone electrophoresis on paper, 22:33492
separation from aqueous solutions by solvent extraction using organic compounds, centrifugation in, 25:21100
separation from corrosion products in reactor coolant circuit, 22:19343
separation from cyclotron target material by evaporation in vacuum, 22:40203
separation from cyclotron-irradiated targets by evaporation in vacuum, 22:23096 (INP-584/PL)
separation from cyclotron-irradiated targets by evaporation in vacuum, 23:2380(T) (ORNL-tr-2013)
separation from effluents from nuclear power plants by ion exchange on cellulose phosphate, 23:38064
separation from fission products, review of methods for, 24:46430 (JAERI-4051)
separation from fresh water and seawater, design of sampler for, 25:34704
separation from fuel reprocessing wastes, 23:11595 (BNWL-814)
separation from gas streams by selective filtration and fixation, 25:4145(P)
separation from hard tap water by ion exchange, 25:48590
separation from high-level radioactive wastes, 21:14409
separation from ion exchange resin regenerant waste by preferential flotation method, 24:2271
separation from irradiated fuels, 24:22687
separation from liquid wastes by ion exchange, 25:21077 (BNWL-1544)
separation from liquid wastes by sorption on minerals, 24:20843 (BARC-454)
separation from liquid wastes, review of processes for, 22:27878
separation from low-activity effluents, 22:37829 (CEA-N-856, pp 57-70)
separation from milk by ion exchange, studies of cation resin composition for, 22:42821
separation from milk, preparation of butter, cheddar cheese, and cultured milk after cation-exchange, 23:26332
separation from radiation targets, chemical and nuclear methods for, 25:57481 (KURRI-TR-76, pp 8-14)
separation from radioactive waste, 25:44420
separation from radioactive waste by solvent extraction, 22:16694
separation from radioactive wastes, facilities at Richland, Washington for, 22:8260
separation from sea water, precipitation methods for, 21:39373(R) (RLO-1750-22(Vol.1))
separation from seawater, efficiency of aluminum oxide for, 23:49879 (BNWL-1051(Pt.2), pp 18-20)
separation from solid waste by elution, theoretical considerations of, 22:51079
separation from solutions by retention on sulfide precipitates, quantitative, 25:26199
separation from steam formed by evaporation of radioactive waste water, 24:285
separation from target materials, 25:29413 (CONF-691225)
separation from thermal-neutron irradiated tellurium by sorption on activated charcoal, 24:27193
separation from vitreous radioactive waste, 24:2266(R) (HMI-B-84)
separation from waste solutions by precipitation with calcium salts of fatty acids, 21:17720
separation from waste waters by frothing flotation, 25:4141
separation from water, 24:36354 (ORNL-4472)
separation from water by flocculation with aluminum and iron salts or precipitation with phosphates, 23:48029(T) (CEA-tr-A-1957)

separation from water supplies, effectiveness of bentonites for, 25:42384(P)
separation methods in biological sewage facilities, 23:7997 (LA-DC-10003)
separation of daughter, design of generator for, 23:28884
separation of fission product decay isobaric, TRISTAN system for, 22:49023 (IS-1893)
separation of gaseous, electromagnetic method for, 22:37938 (ORNL-4271)
separation of high alpha activity, design of hot cell for, 23:9675
separation of parent—daughter pairs, method for calculating cross contamination in column chromatographic, 25:54701
separation of parent-daughter, by chromatography, 23:35131 (HMI-B-81)
separation of short and medium half-life, from radioactive waste by precipitation, 22:27886
separation of short half-life, neutron-deficient, 21:30345(R) (IN-1063)
separation of short-lived, chemical problems in on-line, 25:54672
separation of short-lived, from aqueous solutions, system for rapid, 23:45109
separation of short-lived, from fission products, methods for, 22:21162
separation of short-lived, in far-off stability regions, on-line electromagnetic method for, 25:15848
separation of short-lived, in neutron activation analysis, chromatographic, 21:1306
separation of short-lived, review of on-line equipment for, 24:16788 (PPAD-665-E)
separation of short-lived, using recoil effect, design of equipment for, 24:48155
separation of trace amounts of, design of automatic chromatograph for, 22:14571
separation of, by high- and low-voltage paper electrophoresis, design of equipment for, 21:4609
separation of, design of device for programming and detection of radioactivity in on-line collector for, 24:7586 (CEA-R-3843)
separation of, electrophoretic method for, 22:33525
separation of, evaluation of materials for ion-exchange, 22:33552
separation of, rapid radiochemical methods for, 22:27890
separation of, survey of on-line equipment for, 22:28028
separation of, use of IRR-1 reactor with mass spectrometer for, 22:28029
separation of, use of thin-layer chromatography for, 22:4004
separation using crossed electric and magnetic fields, 23:21609(R) (SRRC-14/67)
separation using laboratory-type electromagnetic separator, 25:57649 (CONF-711002-, pp 1-9)
shielding of, bibliography on, 23:20975 (ORNL-RSIC-5(Vol.2))
shielding requirements for, following activation analysis, computer program for determining, 24:36762 (JUL-603-ST, pp 204-8)
shipment by mail in Australia, radiation protection standards for, 25:42494
shipment by Oak Ridge National Laboratory, Oct. 1 to Nov. 30, 1969, 24:7590(R) (ORNL-TM-2807)
shipment in cargo and passenger aircraft, international regulations governing, 25:42456
shipment in cargo and passenger aircraft, international regulations governing, 25:42457
shipment in Great Britain, regulations governing, 25:21729
shipment in Great Britain, regulations governing, 25:21733
shipping and storage of pharmaceutical, design of shielded container for, 25:4267(P)
shipping and use of, Australian regulations for, 25:34841
shipping container for highly radioactive, testing of, 22:49062
shipping container for, design of closed, 22:23251(P)
shipping containers for, advantages and economic aspects of laminated uranium, 22:45264 (KY-D-2554)
shipping containers for, design of low cost fire shield for, 25:48820 (CONF-710801-(Vol.1), pp 227-61)
shipping of high-specific activity neutron-emitting, design of water-cooled shielded container for, 25:4311
shipping of large quantities of, design and performance of Universal Source container for, 25:51823
shipping of low-activity, regulations for railroad, 22:298
shipping of solid, container evaluation for, 23:593 (ORNL-4272, pp 249-55)
shipping of, bibliography on Atomic Energy Commission customer list for, 22:19047 (ORNL-IIC-13)
shipping of, design and testing of depleted uranium- and lead-shielded containers for, 23:50086 (AAEC/TM-510)
shipping of, design of cart for, 22:25583
shipping of, design of containers for, 22:43017 (DUN-4250)
shipping of, design of low-cost fire shields for large and small containers for, 25:51824
shipping of, evaluation of IAEA regulations for Type A containers for, 22:47307 (EUR-3485(Vol.2))
shipping of, hazard classification for, 22:28040
shipping of, IAEA definition of competent authority role in, 22:28039
shipping of, IAEA packaging requirements for, 22:28042
shipping of, IAEA regulations on, 22:28056
shipping of, insurance coverage and safety of, 25:19017
shipping of, regulations for design of containers for, 24:2433
shipping of, safety evaluation of container for bulk, 25:48882 (ORNL-TM-3506)
solubility in thallium-activated sodium iodides, 21:36382
sorption by anion exchange resins, effects of acidity on, 24:44085
sorption by aquatic and marine animals, fallout, 25:4479
sorption by clay soils in relation to fallout release to ground water, 24:9795 (BMI-171-20)
sorption by inorganic sorbents in liquid waste disposal, 25:41833(R) (IA-1218)
sorption by metal surfaces, review on, 22:35767(T) (AEC-tr-6776)
sorption by polar crystals, evaluation of Ratner equation for secondary, 24:38852
sorption by Rhine River sediments, 23:31420
sorption by Sargassum, mechanism of, 23:17903 (CONF-670503-, pp 505-8)
sorption by soils, effects of DTPA and EDTA on, 24:7774
sorption in soils from burial of low-level wastes, measurement of, 22:2327(T) (JPRS-42565, pp 1-11)
sorption of beta-active, on measuring flask walls, 21:8570
sorption of, participation of oxyhydrate collectors and cationic microcomponents in, 22:10347
sorption on platinum surfaces, effects of passivation on, 22:21072
sources in marine ecosystems, bibliography of non-Russian literature on, 24:7770 (TID-3917)
specific activities of $Z = 88$ to 104, (T), 22:44725
specific activity in tracer studies, significance of number of terms in functions of, 23:47920
specific activity-time curve of, in living organism, three compartment model for calculation of, 23:12033
spectra analysis and identification of, development of computerized system for, 22:30898
spectra of neutron deficient, equipment for measurement of gamma, 21:32325 (CONF-661203)
spectra of, hyperfine structure from optically excited states in, 22:37717 (UCRL-17989, pp 159-66)
stability of short-lived, 22:14525
stability of solutions containing, methods for checking, 22:14681
standardization for clinical and biological uses, methods for, 25:26455
standardization methods for, at Atomic Energy Establishment Trombay, 22:6547
standardization of, 21:40937(T) (ORNL-tr-1750)
standardization of β—γ emitting, $4\pi\beta$—γ coincidence method for, 25:32210 (INR-1240)
standardization of contaminated solutions of, by coincidence counting, (E), 21:7732
standardization of electron-capture, use of 4π-internal liquid scintillation counter for coincidence, 21:17817 (CSIR-253)
standardization of γ-emitting, with gold-leaf electroscope, 21:3305
standardization of low energy-emitting, use of liquid scintillation counter in absolute, 21:46999(R) (AERE-PR/HPM-11)
standardization of solutions of, gravimetric sampling method for, 21:27884 (AECL-2679)
standardization of solutions of, sources of errors in, 21:5985
standardization of, bibliography on, 21:43369 (PHS-999-RH-25)
standardization of, by 4π β—γ coincidence technique, 22:6618
standardization of, determination of solution evaporation losses during, 21:24175
standardization of, emitting delayed gamma rays, use of anticoincidence methods for, 22:14769
standardization of, review on, 25:34818
standardization of, survey of, 21:30641
standards for, 21:22006
standards for common, availability of, 22:16777
standards of, users' guide for, 22:33474 (NP-17502)
standards of, users' guides for, 25:29174
sterility of solutions of, from long-lived nuclear generators, 21:45666 (ORAU-101, pp 83-6)
storage and transport of, fire resistance of shielded containers for, 22:12496
surface density of fallout, equations for relating, 24:14477 (AD-688940)
systems development program for, conference on, 21:32325 (CONF-661203)
technology in Latin America, developments in, 24:39141 (PRNC-135)
technology of, review of industrial, 21:45319
technology, development and use of, 22:4586
testing of advanced fuels of, methods for ablation and impact, 25:4216(R) (SC-PR-70-682)
testing of, produced in Japan in 1965 to 1967, application, 25:41990 (JAERI-13617)
thermal diffusion constant for mixtures of liquid, estimation of, 23:16046
toxicity classification for, tables of, 23:14194
toxicity classification of, in relation to permissible contamination, 24:41902 (FMRB-18)
toxicity for man, 25:42468
toxicity for man, review of problems in protection against, 22:45583
toxicity of inhaled, in beagle dogs, 22:23400(R) (LF-38)
toxicity of internally-deposited, effects of dose on, 21:32659(T) (JPRS-39318)
toxicity studies at Argonne National Laboratory, 23:816(R) (ANL-7360)
toxicity studies, computer based information processing and retrieval system for, 22:23407 (LF-38, pp 147-52)
toxicity to organisms, 22:51875 (TID-4060(1st Ed.))
toxicity to organisms, research publications on, 23:777(R) (UR-49-935)
tracer use for measuring gastrointestinal hemorrhage caused by helminth parasites, 24:12189
training program in use of, for dentistry school, 21:12909
training programs on use of, 21:22238(R) (NP-16547)
transfer in food chains, computer simulation model for, 24:31880 (BNWL-1050(Pt.2), pp 1.15-17)
transfer through ecosystem, use of compartmental analysis for determining, 21:39368 (BMI-171-009)
transfer through placenta to fetus, review of mechanisms for, 24:4554
translocation in mammals, development of analog computer model for determining, 22:23502 (BNWL-SA-683)
transport across sea surface east of Barbados, British West Indies, 23:49947 (BNWL-1051(Pt.2), pp 104-8)
transport and fate in natural environment, summaries of AEC sponsored research on, 24:46593 (TID-4065)
transport and uptake in Alaskan ecosystems, 24:50801 (BNWL-1306(Pt.2), pp 2.1-31)
transport by Columbia River sediments, 21:16090
transport by ground waters, effects of underground nuclear explosions on, 22:18913 (HNS-21)
transport by Hanford area ground waters, mathematical model for predicting, 25:8345 (BNWL-SA-3494)
transport by surface runoff, computer models of, 22:35937(R) (AD-661249)
transport by suspended river sediments, effect of clay minerals on, 22:4272 (TID-24140)
transport in animals of tropical rain forest, 22:49282(R) (PRNC-119)
transport in aquatic ecosystems, statistical analysis of, 25:10998
transport in aquatic ecosystems, use for research on food chains and mineral cycling, 25:24073 (BNWL-SA-3291)
transport in aquatic environment, 21:15996
transport in arctic ecosystem in Alaska, 23:50395 (BNWL-1051(Pt.2), pp 14-17)
transport in biological materials, models for, 21:28585(R) (BNWL-247)
transport in components of forest biogeocenoses, 24:41788
transport in estuaries of USA, bibliography on, 24:39458 (NP-18215)
transport in flowing water, effects of water—sediment interaction on, 23:24301 (ORO-490-17)
transport in food chain of man in Panama, role of mammals in, 23:29423 (BMI-171-21)
transport in food chain of man in Panama, role of arthropods in, 23:29421 (BMI-171-18)
transport in food chains of nuclear explosion-contaminated tropical ecosystems, ecological models for predicting, 25:8626
transport in food chains of nuclear explosion-contaminated estuarine and marine ecosystems in relation to daily ingestion by man, use of stable element content of fish and invertebrates for predicting, 25:8627
transport in food chains of nuclear power plant stack-released, PATHWAY computer program for simulating, 25:18526 (ORNL-4584, pp 37-40)
transport in fresh water ecosystems, method for direct measurement of, 23:26713
transport in freshwater ecosystems, 25:2541
transport in freshwater ecosystems, development of mathematical model for, 25:2542
transport in ground water near Project Rulison chimney, 24:48544 (SWRHL-96)
transport in ground water, model for calculation of, 25:21158 (SC-CR-70-6139)
transport in Italy by truck, dose to drivers from, 24:39511 (RT/PROT-(70)7)
transport in mammals, semi-empirical model for, 24:27513
transport in marine ecosystems, 23:38517
transport in marine environment of Amchitka, Alaska, development of model for, 25:16074(R) (BMI-171-118)
transport in model river system, mathematical simulation of, 25:16083
transport in model river system, mathematical simulation of, 24:20874 (ORO-490-19)
transport in phytoplankton communities, in relation to productivity, 23:33663 (AAEC/TM-492)
transport in rivers, effects of hydraulic dispersion and sorption on, 23:13863
transport in rivers, mathematical model for, 22:35924 (ORO-490-15)
transport in seawater, effects of physico-chemical form on, 24:34208
transport in seawater, mechanisms of, 25:51653
transport in SNAP-8 cooling system, 25:58166(R) (AI-AEC-12980)
transport in soil, hydrologic studies, 21:3181
transport in soils and water, 25:2541
transport in streams, development of model to describe, 22:10356 (ORO-490-12)
transport in surface waters, effects of environmental factors on, 23:43401(R) (TID-25134)
transport in surface waters, effects of organic pollution on, 22:42849 (ORO-490-16)
transport in water of, by hydraulic dispersion and detention systems, mathematical model for analysis of, 21:30532 (ORO-490-2)
transport of airborne, across sea surface at 13°N 58°W, (E), 24:14075 (BNWL-1051(Pt.1), pp 30-4)
transport of gaseous short-lived, by molecular flow, 24:11644
transport of, civil liabilities in, 21:39165(T) (ORNL-tr-1692)
transport of, design of a shielded container for, from which intravenous doses may be dispensed, 21:6507
transport of, produced by nuclear excavation through food chain to man, mathematical evaluation of, 24:27558 (BMI-171-30)
transport through animal and plant ecosystems, 23:48007 (UCLA-12-724, pp 1-21)
transport through aquatic and terrestrial ecosystems, bibliography on, 25:46763 (ORNL-NSIC-95)
transport through debris from nuclear cratering event to aquatic ecosystems, factors affecting, 25:39808
transport through ecosystem in relation to food chain processes, mathematical simulation of, 24:50801 (BNWL-1306(Pt.2), pp 2.1-31)
transport through ecosystems, use of biological models and computer calculations in studies of kinetics of, 25:57947 (CONF-710501-35)

transport through food chain in Columbia River estuaries, 23:50396 (BNWL-1051(Pt.2), pp 44-9)
transport through food chain to man in environs of Hanford nuclear establishment, 24:7783
transport through food chain to man in Panama, role of birds in, 23:29420 (BMI-171-17)
transport through food chain to man, control of, 24:9796 (CONF-690303)
transport through food chains in Arctic regions, 23:41300(R) (NYO-3446-13)
transport through food chains in Finland, 25:18928(R) (NYO-3446-14)
transport through food chains in Finland, 23:6350(R) (NYO-3446-11)
transport through food chains in relation to species characteristics for construction of environmental models, 24:12038
transport through food chains, bibliography on, 25:46763 (ORNL-NSIC-95)
transport through freshwater, use of water basin model to determine, 23:26714
transport through ocean waters and food chains to man, 23:29461(T) (AEC-tr-7022)
transport through oceans, mechanisms for, 23:29461(T) (AEC-tr-7022)
transport through salt-marsh ecosystem, phosphorus-32 and zinc-65 tracer study of, 22:6773(R) (ORO-3238-3)
transport through sea water-seafood-man food chains, 24:21095 (CEA-CONF-1465)
transport through seawater—fish—man food chains following release by underground nuclear explosions, 25:49195
transport through soils, effects of fine particulate matter in ground waters on, (E/T), 25:8361
transport through soils, mathematical expressions for, 22:25843
transport through terrestrial ecosystem following nuclear excavation detonation, model for determining mechanisms of fallout, 24:23144 (SWRHL-82, pp 401-35)
transport velocity in ground water, relation to ground water velocity, 22:16803
uptake and loss by inorganic and organic components of marine environment, CNEN-EURATOM research on factors influencing, 25:37779(R) (EUR-4508)
uptake and metabolism by animals, 21:43324
uptake and metabolism in animals and plants, conference on, 25:6721
uptake and retention by liver, review of mechanisms for, 25:49095
uptake and retention in human tissues, development of radiation protection standards from data on, 25:58024 (CONF-711104-1)
uptake and retention in mammals, development of biological models for interspecies comparisons of, 25:37748 (BNWL-SA-3880)
uptake and transport in plant tissues, (E/T), 25:18892 (NP-18641)
uptake by algae, sessile method for measurement of, 22:43275
uptake by animals, hazards from, 21:32735(R) (EUR-3270.d)
uptake by aquatic organisms, correlation with position of element in periodic system, 23:24588
uptake by aquatic organisms, ecological studies, 21:20115
uptake by aquatic organisms, use of exponential model to determine effects of aquatic concentration on, 24:7786
uptake by cultured bacteria and yeasts, use of autoradiography to determine, 25:2530
uptake by fish in effluent-contaminated water, 21:16304
uptake by fish, invertebrates, and plankton in Columbia River, 21:16090
uptake by forage and weed plants, tracer study of, 25:21568
uptake by inhalation, equations for calculation of systematic retention and urinary excretion rate following, 22:30934 (RT/PROT-(67)15)
uptake by man of, from liquid waste disposal, permissible levels for, 21:16092
uptake by man of, from waste disposal into ocean, 21:16093
uptake by marine and terrestrial food chains in Alaska, rate of fallout, 24:48457 (BNWL-1307(Pt.2), pp 5-7)
uptake by marine organisms during 1967, 23:24609(R) (EUR-4244)
uptake by marine organisms for tracer studies of physiology, 22:19237(R) (NYO-1343-17)
uptake by marine organisms, (E), 22:12455(R) (EUR-3635)
uptake by marine organisms, effects of physical chemical state on, 24:7719
uptake by marine organisms, program for study of factors influencing, 24:34212
uptake by marine organisms, use of cybernetic methods for determination of, 23:787
uptake by microorganisms, 22:12798
uptake by milk, report on analysis, biological effects, decontamination, incidence, and prevention of, 24:46606
uptake by normal and tumor cells, biological and physical factors affecting, 25:21801
uptake by nuclear personnel, toxicologic testing as detection method for, 23:41322
uptake by organisms in environment of Savannah River Plant, 22:38253 (DP-MS-67-99)
uptake by organs of human body, 24:36782
uptake by personnel at Juelich KFA, methods for determining, 24:36763 (JUL-603-ST)
uptake by personnel at Juelich nuclear research center, use of excretion measurement and whole-body counter for determining, 24:36744 (JUL-603-ST, pp 109-18)
uptake by personnel at Juelich nuclear research center, whole-body counting and excretion measurements for determining, 24:36747 (JUL-603-ST, pp 157-74)
uptake by personnel during preparation of labeled pharmaceuticals, whole-body counting of, 25:24007
uptake by plants, 21:43322
uptake by plants irrigated with effluent-contaminated water, 21:16304
uptake by plants, effects of environmental, morphological, and physiological conditions on, 24:7788
uptake by plants, EURATOM-ITAL research on, 24:39587(R) (NP-18287)
uptake by rodents and plants in Nevada Test Site environs, 22:18963 (BNWL-481-1, pp 93-101)
uptake by second-growth crops on fallow land, kinetics of fallout, 24:9795 (BMI-171-20)
uptake by skin of animals, method for determining, 22:49203
uptake by vegetation in tropical rain forests, effects of epiphytic mode of growth on, 25:21548 (TID-24270, pp H.167-76)
uptake curves for tracer studies, kinetics of, 25:13336
uptake from debris from nuclear cratering event by organisms in human aquatic food chain, factors affecting, 25:39808
uptake from diet by man, 21:43405
uptake from fallout by food products, 25:11038 (UCRL-72716(Rev.1))
uptake from KAPL waste by aquatic organisms, 22:21497 (HW-43112)
uptake from seawater by marine microorganisms, 23:20127
uptake from soil by food plants following nuclear explosions, 23:50397 (CONF-671135-, pp 143-8)
uptake from soils by roots of plants, 22:43233
uptake measurements of, design of detectors for, 23:38257
uptake of, by young salmon, effects of reactor effluent on, 21:14549 (BNWL-280, pp 132-3)
use as catalytic oxidizer heat source for life support systems in space vehicles, 23:2516 (N-68-11871)
use as direct power source for heart transplants, (T), 22:36006
use as excitation source in x-ray fluorescence equipment for criminalistics, 24:20951 (ORO-3561-2)
use as gamma sources in radiography, optimum lifetime for, 25:57697
use as heat source for Brayton power cycle for space applications, 21:4671 (NASA-SP-131, pp 95-145)
use as heat source for electric power generation, 23:24385 (CONF-670649-18)
use as heat source for heating suits for swimmers in cold water, 22:47295(P)
use as heat source for heating suits of swimmers in cold water, 22:47296(P)
use as heat source for mercury turbogenerators for undersea operation, 25:18600(P)
use as heat source for subliming solid propulsion system, 22:37947(P)
use as heat source for thermoelectric converter, 23:24396(P)
use as heat source in electric generators, tabulated data on, 25:34811(T) (ORNL-tr-2485)
use as heat source in electric power generation and propulsion systems, 23:38198(P)
use as heat source in life support systems for space flights, advantages of, 24:2403
use as heat source in photovoltaic device, 24:7594(P)
use as heat source in RIPPLE thermoelectric generator, UK program for development of, 22:8319
use as heat source in thermal suit for survival in cold environment, 23:19901 (AD-670212)
use as heat source in thermodynamic engine, 25:29279(P)
use as heat source in thermoelectric generators, 21:43203(P)
use as heat source in vapor pyrolysis and catalytic oxidation water recovery system, 24:44206
use as heat sources for electric power generation using Stirling power cycle, 21:26111
use as heat sources for electric power generation for long range telecommunication relay stations, 21:26083
use as heat sources for electric power generation, review of, 21:26080
use as heat sources for isotopic generators, economic evaluation of, 21:45314(T) (JPRS-42391)
use as heat sources for small Rankine cycle power unit, 21:26113
use as heat sources for space vehicle propulsion and on-board power, feasibility studies of, 21:26081
use as heat sources for thermoelectric generators, 22:42993
use as heat sources in nuclear batteries, for medical applications, 21:26092
use as heat sources in power generation systems for remote automatic weather stations, feasibility of, 21:26087
use as heat sources in power systems for cathodic protection against corrosion, evaluation of, 21:26091
use as heat sources in power systems for oceanographic equipment, evaluation of, 21:26089
use as heat sources in power systems for satellites, European program for, 21:26082
use as heat sources in Rankine cycle power unit, 21:26114
use as heat sources in SNAP devices, evaluation of, 21:26098
use as heat sources in thermoelectric generators, 23:38201(P)
use as heat sources in thermoelectric generators for marine applications in RIPPLE program, evaluation of, 21:26099
use as heat sources in thermoelectric generators for submerged repeaters in submarine telephone cable systems, 21:26085
use as heat sources in thermoelectric generators for telecommunications equipment, 21:26084
use as heat sources in thermoelectric power generators, 21:26109
use as heat sources, summary of conference proceedings on, 23:4788
use as indicators in precipitation reactions for classroom demonstrations, 23:11433
use as ionization source for measurement of gas flow, 24:2369 (CEA-R-3699)
use as label for drugs, for organ distribution studies in animals, 25:6629
use as neutron sources, 21:8544
use as photon sources for measuring sensitivity of radiation detector, 24:29454
use as power source for artificial heart pumps, parameters for, 25:39665
use as power source for heart pump, 22:10519
use as power source for Mars landing capsule, 21:22103 (N-67-14931)
use as power source for single-jet thruster, 23:29094 (N-69-10680)
use as power source in implantable heart devices, 25:44556
use as power source in mechanical heart for implantation in man, 22:30789
use as power source in thruster of Manned Orbital Research Laboratory, 22:246 (N-67-18580)
use as power sources for implantable medical devices, mechanical intervention approaches to, 25:39666
use as power sources in electric generators, European Nuclear Energy Agency study of, 22:8307
use as power sources in isotopic power generators for space vehicles, evaluation of radiation hazards from, 21:26117
use as power sources in thermoelectric generators, conference on, 22:23227
use as power sources, international study on, 21:45322
use as radiation source for contact therapy, 24:32019 (SZS-3/70)
use as radiation sources, review of, 23:16853
use as radiography sources, 21:14386 (AAEC/TM-309)
use as sensing elements in automated balances, 22:4493
use as source in x-ray methods for process and quality control in paper industry, 25:51689 (A/CONF.49/P-6)
use as sources for radiopreservation of foods, Italian studies on, 22:8325
use as thermal energy sources for life support systems in space vehicles, evaluation of, 25:42004
use as tracer for determining calcium content of bones, 24:34459
use as tracer for determining mineral metabolism in domestic animals, conference on, 25:51971 (STI/PUB-293)
use as tracer for measurement of turbulent fluid flow, 22:21291
use as tracer for studies on fertilizer efficiency, nitrogen metabolism, synthesis of nitrogenous compounds in plants and their utilization by animals, 24:27486 (STI/PUB-161)
use as tracer of fluid flow in well bores, equipment and methods for, 24:46348
use as tracer to measure residual solder flux, 21:8546
use as tracers and radiation sources in sanitary engineering, 23:16040 (KURRI-TR-7)
use as tracers for determining effects of radiation on hematopoietic stem cells, 25:44882
use as tracers for determining nutrient cycling in rain forest in Puerto Rico, 25:42317(R) (PRNC-147)
use as tracers for discharge measurements in high pressure turbines and pumps, 21:45309 (TID-23737, pp 1-86)
use as tracers for flow studies in industrial chemical processes, 22:14704
use as tracers for labeling refractory materials for use in casting metals, 21:26062 (EUR-3169.f)
use as tracers for measurement of sediment movements in surface and sea waters, 22:19058
use as tracers for measuring mass transfer in industrial processes, 25:44551
use as tracers for measuring thermal expansion and wear of turbine components, 25:57663
use as tracers for medical studies, guidelines for protection of patients during, 25:8717
use as tracers for plasma clearance studies, development of method for, 24:29623
use as tracers for studying microorganisms in food preservation program in Czechoslovakia, 24:42046
use as tracers for water flow rate measurements in hydrology and high pressure turbines, 21:45310 (TID-23737, pp 87-113)
use as tracers in biology and biochemistry, 21:26364
use as tracers in biomedical research in Argentina, 25:51959 (A/CONF.49/P-563)
use as tracers in drilling, prospecting, and surveying for oil, 22:19050
use as tracers in evaluation of material flow in plants and natural systems, review of, 22:10508
use as tracers in hydrology, 21:45236
use as tracers in Italian automotive industry, development of devices for, 22:8323
use as tracers in Italian metallurgical industry, 22:8324
use as tracers in Italian textile industry, 22:8321
use as tracers in life sciences research since 1946, summary of, 25:55107
use as tracers in research and agricultural plant metabolism and nutrition in Ukrainian SSR, 25:51962 (A/CONF.49/P-694)
use as tracers in research on productivity of farm animals, review of, 25:26578 (CONF-680112-, pp 153-66)
use as tracers in sediment transport studies, evaluation of, 24:39145 (PRNC-135, pp 263)
use as tracers in underground water flow measurements, 21:22031
use as tracers to determine crop root distribution in soils, 25:52017 (A/CONF.49/P-537)
use as tracers to determine fate of calcium, sulfur, and zinc in soils in relation to plant utilization, 25:52017 (A/CONF.49/P-537)
use as tracers to determine fate of phosphate fertilizers in soils, 25:52017 (A/CONF.49/P-537)

use as tracers to measure flow rates in large pipes and rivers, 24:39042 (PRNC-135, pp 317-26)
use as tracers, mathematical analysis of data errors in, 23:50260
use as x-ray emitter in spectroscopic analysis, 22:37668
use at Center of Nuclear Medicine, Sao Paulo, Brazil, 24:32057 (NP-18185)
use by pharmacists, training programs for protection against hazards from, 22:40722
use for agricultural research in Africa, 23:29944
use for analysis of thyroxine from animals, 22:36191
use for assay of luteinizing hormone in bovine blood serum, 24:27491
use for assay of luteinizing hormone in plasma and urine, 24:29624
use for assay of thyroxine in human serum, comparison of, with chromatographic method, 24:14385
use for bearing slip measurements, 23:22106
use for brain scanning in combination with radiography for differential diagnosis of craniopharyngiomas, 24:48612
use for brain scanning, evaluation of, 22:47556
use for cisternographic diagnosis of occult normal-pressure hydrocephalus in man, 24:44563
use for clinical determinations, short-lived, 22:25859 (UCLA-12-668, pp 1-28)
use for clinical scanning, 21:41470
use for clinical studies in man, ICRP report on patient protection during, 25:52096
use for dead-time analysis of radiation detectors, 21:19926
use for detecting defects in hot cell walls, 23:24386 (CONF-670649-41)
use for detecting radiation streaming through hot cell shielding, 23:24383 (CONF-670649-15)
use for determination of cerebral circulation time in man, 21:26516
use for determination of ecology of rodents, 22:51445
use for determination of energy metabolism in cultured cells, 23:31618
use for determining blood flow through human organs, development of mathematical formulas for improved accuracy, 25:10917
use for determining DNA synthesis in mice following lymphoma transplantation, 24:36800(R) (CALT-767-P-6-X-4)
use for determining leaching from plant parts, 23:24505(R) (NYO-2598-45)
use for determining mineral content of bones, methods for, 23:47919
use for determining testosterone content of blood of bovines and swine by double isotope dilution combined with crystallization, 25:10923
use for diagnosis, 25:27036 (CONF-691057)
use for diagnosis and therapy in hematology, methods for, 25:35157
use for diagnosis and therapy of diseases of bladder and prostate, 24:34434
use for diagnosis and therapy, survey of, during 1966, 23:29635
use for diagnosis and treatment of neoplasms, bibliography on, 21:34679 (NP-16780(Vol.1)(Pts.2-3))
use for diagnosis in clinical medicine, evaluation of methods for, 25:16239
use for diagnosis in nuclear medicine, review of, 25:19037
use for diagnosis in organs of man, review of, 22:40758
use for diagnosis of brain tumors in man in combination with Anger camera and gamma encephalography, 24:32078
use for diagnosis of diseases of kidneys, liver, lymph glands, lungs, pancreas, spleen, and thyroid, 23:2894
use for diagnosis of dysplasia in human kidney and liver, effectiveness of, 24:7960
use for diagnosis of human diseases, development and performance of scanning and stationary detectors for, review of, 25:29349
use for diagnosis of human kidney diseases, evaluation of, 24:21240
use for diagnosis of human renal hypertension, 24:34433
use for diagnosis of kidney diseases by scintiscanning, developments in, 24:34440
use for diagnosis of kidney diseases in children and man, 24:34436
use for diagnosis of kidney disorders and tumors in man, in comparison to radiography, 23:29643
use for diagnosis of kidney malfunction in chronic irradiated rabbits, 22:8576
use for diagnosis of liver diseases, advantages of measuring incorporation of precursors into glucose over determining concentration of metabolic end products, 25:13506
use for diagnosis of renovascular hypertension in man, effectiveness of, 23:29653
use for diagnosis of thrombophlebitis in man, methods for, 25:16238
use for diagnosis of tumors of adrenal glands, biliary system, brain, lungs, pancreas, spinal cord, and spleen in man, 23:45802
use for diagnosis or therapy, methods for protection of medical personnel and patients during, 23:50557
use for diagnosis, radiation protection during, 21:22446
use for diagnosis, review of, 24:44544
use for dynamic medical diagnosis, 23:45808
use for dynamic testing of mineral processing equipment, 23:35388
use for endolymphatic therapy, of man, apparatus for, 22:33887
use for function measurements in human kidney diseases and transplants, 24:34437
use for function tests in kidneys, 24:34432
use for hormone assay in patients with malignant mastopathies, 24:27498
use for identifying aircraft, 22:43141(P)
use for improvement of surgical efficiency in gynecology, methods for, 25:19070
use for in vitro assay of tumor chemosensitivity, 25:49099 (UCLA-12-815, pp 1-36)
use for in vitro diagnosis in medicine, 23:5000
use for industrial gaging and radiography, safety evaluation of, 23:50197 (ORO-3610-1)
use for insulin assay in bile of swine, 24:29626
use for intracorporeal exposure of blood, design of prosthetic tube for, 24:36794(P)
use for kidney disease diagnosis in man, effects of aortography on, 23:12175
use for kidney scanning, in patients with kidney diseases in combination with computer analysis, 25:11161
use for large radiation sources in Canada, Japan, and United Kingdom, 21:39149
use for liver scanning in man via umbilical vein, comparison of methods for, 23:35812
use for liver scintigraphy for diagnosis of liver diseases in man, in comparison to x rays, 23:48144
use for localization of tumors in man, mathematical evaluation of, 24:2732
use for measurement of blood circulation in human brain, review of methods for, 24:17075
use for measurement of luteinizing hormone excretion in women, 24:27490
use for measuring amino acid transport across membranes of human erythrocytes, use of β spectrometer with computer to analyze data from, 22:14931
use for measuring DC defibrillation of atrial fibrillation, hemodynamic effects of, 23:48111
use for medical diagnosis and therapy in relation to cost, production, safety, techniques, and transport, review of, 25:13519
use for medical diagnosis, review of, 23:48163
use for medical diagnosis, risk evaluation of, 24:50965 (CONF-691212-, pp 491-507)
use for medical diagnosis, standards for, 21:45685
use for medical diagnosis, treatment and research in Australia, 21:14359(R) (NP-16386)
use for medical research, 22:51306(R) (ORAU-106)
use for nondestructive testing of steel castings, 22:10501 (EUR-3645)
use for organ scanning in man in combination with image converter tube gamma camera, 24:34476
use for organ visualization by scanning, 25:2581
use for phosphor excitation in self-luminous light source, 23:7700(P)
use for quantitative determination of mineral content of bones, 23:31851
use for radiation catalysis in fuel cells, 23:29103(P)
use for radiation sources in Czechoslovakia, 22:51337
use for radiographic applications, 21:8557
use for radiosterilization of medical supplies, 24:22904
use for research in man, guidelines for, 21:32734 (CONF-661018, pp 213-19)
use for research in plant physiology, review of, 24:23090
use for scanning in man, 21:8876
use for scanning in man, review of, 24:34471
use for scanning of blood circulation, methods for, conference on, 25:11192
use for scanning of brain and lungs in man, image display and analysis method for, 24:7961
use for scanning of human gastrointestinal tract, review of new methods for, 24:32075
use for scanning of human organs, method for dosimetry using data from, 24:12078
use for scanning of kidneys, technique for, 23:29630
use for scanning of lymph vessels in man, 23:45839
use for scanning of renal function, method for, 24:41929
use for scanning of tumors, review of techniques for, 24:17077
use for scanning, criteria for selection of, 23:50726
use for scanning, development of new techniques and instrumentation for, 21:28545
use for scintigraphy of bone metastases of mammary cancer in man, 23:48106
use for scintigraphy of overinflated lungs in man in combination with angiography, 24:787
use for scintigraphy of thyroid in patients with goiters in combination with angiography, 24:34518
use for scintiscanning of bones in diagnosis of Paget's disease, value of positive scans during, 24:46632
use for soil physics and irrigation studies, conference on, 22:23135 (STI/PUB-158)
use for space vehicle propulsion, 23:4790
use for studies of kidney function in man, review of, 23:45806
use for study of function and morphology of salivary glands, 22:36292
use for study of human chromosomes, evaluation of, 24:36736
use for study of lymphocyte circulation in calves following extracorporeal exposure, 23:50815
use for study of urine flow from kidneys, differentiation between functional and mechanical destruction by, 22:36293
use for studying distribution and metabolism of drugs in animals, whole-body autoradiographic method for, 23:50290
use for surface area and roughness measurements, review of, 22:16789
use for therapy in Japan, review of, 23:43825(T) (NSJ-tr-106)
use for therapy in man, effects of regional oxygenation on, 22:36312
use for therapy in man, review of current journal literature on, 23:43832
use for therapy of brain tumors, 22:47585
use for therapy of human tumors, review of, 22:51679
use for therapy of neoplasms, 21:39481
use for therapy of vocal cord carcinoma, calculation of mathematical formulae for isodose patterns for, 22:49344
use for therapy, dosimetrical problem during, 21:26439
use for therapy, radiation protection during, 21:22446
use for tracer studies in medicine in Latin America, developments in, 23:41190 (CONF-670338, pp 103-12)
use for tracer studies in medicine, review of, 21:34700
use for tracer studies on ecology and population dynamics of ticks, 25:18934(R) (ORO-3514-10)
use for tracking small animals in natural habitats, 23:43656
use for visualization of transplanted organs, 24:48438(R) (TID-25490)
use in aerodynamic testing, 22:38126
use in agricultural entomology, review of, 22:47657
use in agricultural research in Latin America, 25:51967 (A/CONF.49/P-756)
use in agricultural research in Netherlands, 24:4595(R) (EUR-4295)
use in agricultural research, review of, 24:31773
use in agriculture in Africa, priorities for future, 24:44385
use in agriculture in Ecuador, 25:27134 (CONF-680112-, pp 245-6)
use in agriculture in Hungary, 25:57911
use in agriculture, biological research, and medicine in Egypt, 24:44387
use in agriculture, hydrology, industry, and medicine, IAEA sponsored research on, 24:39470 (STI/DOC-10/105)
use in agriculture, industry, and medicine in Japan, 23:12153
use in agriculture, industry, and medicine, 1967 summary of French research on, 23:2518 (NP-17597, pp 97-108)
use in agriculture, medicine, and veterinary sciences in Zambia, 24:44383
use in agriculture, review of, 23:33687
use in agriculture, review of, 24:9737
use in agronomy in France, review of, 24:23089
use in analysis and characterization of elastomers, 23:45211
use in analysis and determination of steroids, 22:16476
use in aqueous solutions as tracers, factors affecting behavior and properties during, 25:10925
use in assaying enzyme activity, review of, 22:44978 (NP-17585)
use in automation and control in mining, 21:24179
use in automation of industrial chemical processes, 23:38196
use in basic and applied medicine, 21:22351
use in biological and medical research, historical review of, 21:17786
use in biology and medicine, bibliography on, 24:21202 (AED-C-12-19)
use in Canada, regulatory controls in, 23:4748 (NP-17505)
use in Canadian industry, 24:22903
use in chemicals and reagents in analytical chemistry, review on, 23:17331
use in civil aviation communications and navigation systems, feasibility study of, 21:26086
use in clinical and research facility, protection program for, 22:49330
use in clinical medicine and research, conference on, 25:6721
use in clinical medicine for diagnosis of human diseases, 24:50994
use in clinical pharmacology, practical and theoretical aspects of, 23:43683
use in coastal pollution control in Denmark, 25:51650 (A/CONF.49/P-646)
use in combination for differential scanning, 23:33771
use in continuous weighing of transported masses, 24:385
use in control and level gaging, 22:4366
use in detection of pesticide residues, conference on, 21:20029 (STI/PUB-123)
use in determining direction and velocity of groundwater flow, 21:36135
use in development of petroleum industry products, 22:8320
use in development of radiometric instruments for industry and geophysics, bibliography on, 21:12697 (STI/PUB-21/20)
use in diagnosis of benign human brain diseases, 23:18061
use in diagnosis of gastrointestinal bleeding, method for, 21:24531
use in diagnosis of human physiology, methods for, 23:6506
use in diagnosis of kidney diseases, evaluation of, 21:43489
use in diagnosis of malignant neoplasms in man, scanning device for, 21:39446(R) (NYO-3777-7)
use in diagnosis of pulmonary carcinoma, review on, 21:34716
use in diagnosis, developments in, 24:48601
use in diagnostic medicine, review of, 22:28605
use in diagnostic veterinary medicine, 24:2728 (NYO-4039-1, pp 79-83)
use in electroanalysis, 23:26454 (CONF-670649-22)
use in electron microscopes by preparation of labeled aerosols, 21:42963 (JUL-77-RB)
use in energy-dispersion x-ray method of determining silver in silica, 23:28741
use in entomology, review, 21:32770
use in European industry, role of Euratom in safety of, 24:22435
use in European industry, technical and legal aspects of safety in, 24:22434
use in food processing, 22:16782
use in forensic medicine, 22:38356
use in heart scanning with Anger camera, computer method for evaluating, 23:48117
use in heat sources, 21:32324(R) (BNWL-381)
use in Hungary, economics of industrial, 21:3220
use in hydrological studies in Australia, 21:14320
use in hydrology and applied geology, 22:8322
use in hydrology, bibliography on, 21:28079 (PEL-144)

use in industrial instruments in Poland, 21:19859
use in industrial process control, 21:8542
use in industrial processes, 22:36004
use in industry for radiometric measurements, 23:4851
use in industry in Japan, 22:49232
use in industry, medicine, and research in Canada, 22:16638
use in industry, notes from conference on, 21:30643
use in industry, review of, 21:14394
use in industry, review of, 22:6247
use in industry, role of IAEA in supervision of, 24:22362
use in industry, USAEC programs for, 22:6246
use in instruments in USSR, 21:39283
use in Japan, industrial, 21:45439
use in kinetic study of galvanic corrosion, 22:2575
use in labeling compounds, facility and equipment for, 22:30759
use in labeling copper to identify stolen wire, 22:14433 (ORNL-4196, pp 66-89)
use in laboratory applications, techniques for, 23:2827
use in lettuce harvesting, 21:36270
use in longitudinal tomographic imaging with scintillation cameras, theoretical considerations in, 24:12156
use in lung scanning, equipment for, 23:48102
use in lung scanning, review of, 23:48102
use in measurement of movement of coastal sands, 22:51123
use in measurement of turbulent flow in rivers and artificial channels, 22:12554
use in measuring devices, development of international standards for, 22:8326
use in measuring flow of slurries, 24:378 (INR-P-1057)
use in measuring flow rates in hydroelectric plants, 21:12699
use in measuring water flow rate in high head turbines and pumps, 21:32325 (CONF-661203)
use in medical diagnoses, radiation protection programs for personnel during, 25:52094
use in medical diagnosis in USA, survey of, 24:50964 (CONF-691212-, pp 463-72)
use in medical diagnosis, hazards from, 23:50713
use in medical practice, research, and teaching in Chile, developments in, 23:41191 (CONF-670338, pp 113-26)
use in medicine, 23:6504
use in medicine in Hungary, review of, 21:45706
use in medicine in relation to surgery, 24:14550
use in medicine, activities of Medical Internal Radiation Dose Committee on, 24:50893 (CONF-691212-, pp 473-9)
use in medicine, conference on, 24:34383
use in medicine, dose-effect modifying factors in dosimetry for, 24:50892 (CONF-691212-, pp 399-411)
use in medicine, evaluation of record keeping for, 24:29762 (DMRE-69-3, pp 172-9)
use in medicine, guidelines for physicians for, 24:41896
use in medicine, historical review of, 22:49426
use in medicine, organization of United Kingdom National Health Service for, 24:48602
use in medicine, reference man and reference patient considerations in, 24:50879 (CONF-691212-, pp 87-102)
use in medicine, review of, 21:41455
use in medicine, review of, 23:18041 (CONF-670958)
use in medicine, review of, 22:36309
use in medicine, USA survey of, 23:29656 (MORP-68-10)
use in metal physics and metallurgy, 22:19053
use in Mexican textile industry, 24:39148 (PRNC-135, pp 383-6)
use in nephrography in patients with renal tuberculosis, 21:34728
use in nuclear batteries, 23:9662
use in nuclear medicine in Japan, 24:21235
use in nuclear medicine research in Hungary, 25:52125 (A/CONF.49/P-324)
use in nuclear medicine, recent advances in, 24:9885 (CONF-690303-, pp 1-19)
use in nuclear medicine, review of development of dosimetry for, 24:50874 (CONF-691212-, pp 7-15)
use in oceanography, 23:29029
use in oil well logging, personnel protection problems in, 21:30810
use in on-stream x-ray spectrometric analysis, 25:37335
use in pesticide research, review of, 25:42239
use in pharmaceuticals, review of methods and devices for, 21:22496
use in pharmacology, 21:24471
use in pharmacology, 21:24472
use in pharmacy in Denmark, radiation protection standards for, 21:28464
use in Philippine Islands, review of industrial, 22:33201
use in phosphor-coated light source tubes, 22:23206(P)
use in plant root development studies, 22:6449
use in polarographic analysis, 23:6087
use in Polish pulp and wood industry, 23:9659
use in power generation, review of, 23:35415 (AD-687131)
use in power generators, description of USSR, 22:27470(T) (JPRS-45100)
use in power sources, heat output control method for, 23:38202(P)
use in power supplies for hydrospace exploration, 21:233 (AGN-8163(Vol.2))
use in power supplies for space vehicles, 21:28172
use in power supplies for space vehicles, applicability limits of, 21:28173
use in propellant and explosives technology, 21:32333
use in radiation sources, capsule testing for, 21:26067 (ORNL-4092)
use in radiation targets for nuclear research in USSR, 23:26473
use in radiochemical analysis and tracer studies, review of, 23:38199
use in radiodiagnosis of urinary track diseases in man, review of advances in, 22:28602
use in radiometric gage for measuring fluid film thickness, 21:16074
use in radiomicrobiologic assay for serum folate in Lactobacillus casei, methods for, 25:8809
use in radioteletherapy, publications of international atlas on, 23:2842
use in radiotherapy of cancer of head and neck, review of, 21:16393
use in radiotherapy, review of, 21:24496
use in renography, development of digital computer method for evaluating, 23:48105
use in research at Inst. of Nuclear Sciences, New Zealand, 22:10135(R) (NP-17190)
use in research on forests, 23:41217
use in research on marine ecology, review of, 25:26683
use in rocket generators with thermoelectric converter, 21:29080
use in scanning for diagnosis of obstructive lesions of human urinary tract, 24:34435
use in scanning, use of magnetic tapes for automatic entry of data on, into digital computers, 22:544
use in smoke detection devices to detect fires, 21:16073
use in studies of metal complexes, 22:4138
use in study of polymer chemistry, 22:71
use in studying stream pollution problems in pulp and paper industry, 21:39315
use in therapy of human diseases, 23:29655 (CONF-670649-44)
use in tracer dilution for cardiology diagnosis, mathematical model for, 21:24501
use in tracer method for measurement of mixer efficiency, 22:14721
use in tracer technique for engine wear measurement, 22:14684
use in tracer techniques for liquid flow measurements, accuracy and precision of, 22:14717
use in tracing ground water flow, 22:27915
use in USSR industry, 23:16038(T) (AD-673180)
use in veterinary research, 21:24631
use in x-ray fluorescence analysis, 22:2010
use in x-ray techniques for on-stream analysis of slurries, 24:2114
use of albumin-incorporated, for diagnosis of human joint diseases, 23:18065
use of albumin-incorporated, in diagnosis of human brain diseases, review of, 23:18060
use of alpha-emitting, with subliming material to power microthrust rocket, 24:31614
use of antibody-incorporated, for therapy of thyroid metastases in man, 24:48641
use of artificial and natural, in oceanographic research, 23:21833
use of automatic data processing in studies using, 21:43326
use of α emitting, for attitude control system of solar probe space vehicle, 25:4222
use of α-emitting, in fuel capsules, 21:22104 (ORNL-TM-1735)
use of beta-emitting, in x-ray resonance absorption analysis, 23:13663
use of bone-seeking, in medical diagnosis, 21:6558
use of cosmogenic, as tracers of in-cloud scavenging processes, 24:48178 (BNWL-1307(Pt.2), pp 14-16)
use of drug-incorporated, for diagnosis of cancer in man, 24:4653
use of for bone scanning, review of, 24:34492
use of heat-sensitive, for temperature measurements, 21:10687(R) (N-66-21002)
use of isomers of, produced by gamma reactions (γ,γ') at 6 and 8 MeV, analytical, 21:35882
use of low-energy γ-emitting, for scintiscanning, effects of tissue scattering on, 24:7948
use of natural and reactor-produced, in ground water hydrology studies, 25:32069 (CONF-700840-1)
use of natural, cosmic-ray-produced, or fallout, to study large-scale atmospheric dispersion processes, 24:5762
use of naturally occurring, in sedimentology, 22:30703
use of reactor produced, in medicine, review of, 22:43364
use of Rose Bengal-incorporated, for scintiscanning of human pancreas, use of subtraction method for two photographic images for evaluating, 23:48153
use of short-lived, in activation analysis, 22:12252
use of short-lived, in radiodiagnosis, 21:26476
use of two simultaneously administered, with different γ energies for functional studies, development of method for, 25:26569
use of, as tracer for diagnosis of diseases, 21:6605
use of, as tracers in studies on fertilizers in maize and rice cultivation, 21:14627
use of, at Tunisian CEA 1966-1967, 22:14875(R) (NP-17229)
use of, for diagnosis of brain neoplasms, comparison with other methods, 21:12916
use of, for labeling insects, 21:8751
use of, for labeling drugs in Federal Republic of Germany, legal aspects of, 21:12867
use of, in chemical analysis, 21:14166
use of, in chemical analysis, 21:12348
use of, in entomology, 21:11008 (STI/DOC-10/61)
use of, in hospitals, design of laboratories for, 21:12868
use of, in human metabolism studies, 21:6545
use of, in medicine, 21:10917(R) (EUR-3129.f,i)
use of, in Moessbauer spectrometry, 21:12600
use of, in pediatric urology, advantages and hazards of, 21:6584
use of, in photoscintillation scanning of kidney, liver, spleen, and thyroid, 21:12925
use of, in radiotherapy, apparatus and physical basis for, 21:3433
use of, in study of properties of paints and films, 21:3041
use of, in veterinary medicine and research, 21:3449
use of, licensing and regulations for, 22:49028
use of, to protect forests against flies, 21:6472
use to study trace minerals in domestic animals, conference on, 23:45610 (STI/PUB-218)
use with biochemical and immunologic tests for differential diagnosis of thyroiditis in man, 24:46634
use with scintillators for timing photomultiplier channels, 21:16234
uses as atmospheric tracers, review of USSR, 24:39081
uses as excitation sources in x-ray fluorescence analysis, 25:26175
uses as excitation sources in x-ray fluorescence analysis, 25:28922
uses as heat sources in power generators, European programs for, 22:49033
uses as power and radiation sources in industry and research, radiological problems associated with worldwide, 25:39652
uses as sources in x-ray fluorescence analysis, 24:2097 (CEA-R-3811)
uses as tracers in geophysics and industry, 22:10507 (SGAE-IB/IA-15/1967)
uses as tracers in medical diagnostics, review of double tracer methods for, 25:21776
uses as tracers in steelmaking melt-shop operations, review of present and future, 24:29452
uses as tracers in studies of diffusion in metals, 24:39637
uses as tracers in USSR metallurgical industry, review of, 25:10780
uses at Institute of Atomic Energy, Sao Paulo, Brazil, 24:39149 (PRNC-135, pp 387-96)
uses at Laboratory for Isotope Techniques, Karlsruhe, Germany, research on, 24:41621
uses at West Valley Processing Plant, authorization for, 24:33755 (DOCKET-50201-37)
uses for, 22:606 (CONF-661011, pp 8-10)
uses for age estimation in archaeology and geology, 22:25522
uses for intensification of underexposed radioautographs, 24:14181
uses for medical diagnosis and therapy in Sudan, 25:52131 (A/CONF.49/P-639)
uses for medical diagnosis and therapy, review, 25:52132 (A/CONF.49/P-653)
uses for monitoring and studying chemical processes, 24:46439
uses for on-stream elemental analysis in industrial processes, recent developments in, 25:39659
uses for process and quality control in steelmaking operations, educational program for developing, 25:39661
uses for scintigraphy in medicine, bibliography on, 23:48161
uses for security and law enforcement, feasibility study of, 24:11744
uses for studying blast-furnace ironmaking operations, 25:54906
uses for studying nutrient uptake by plants from fertilizers and soil, review on, 25:46670
uses for, development of, 22:22925
uses in aerospace, 22:37945
uses in aerospace and industrial programs, review of, 25:44554
uses in aerospace waste reclamation and water systems, 22:37953
uses in agricultural research in developing countries, review of, 25:51708 (A/CONF.49/P-768)
uses in agricultural research, review of, 21:17791
uses in agriculture, 25:4732(R) (NYO-2043-216)
uses in agriculture and food sciences in Spain, review of, 25:51707 (A/CONF.49/P-728)
uses in agriculture and industry in Israel, 21:6144 (IA-1082, pp 255-88)
uses in agriculture and industry in USSR, 25:51697 (A/CONF.49/P-465)
uses in agriculture and industry, Argentine Atomic Energy Commission research on, 24:39144 (PRNC-135, pp 100-5)
uses in agriculture and medicine, research at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
uses in agriculture in Japan, 25:21658
uses in agriculture, biology, medicine, and metallurgy in Romania, 25:51608 (A/CONF.49/P-340)
uses in agriculture, hydrology, industry, and medicine, IAEA research on, 22:16779
uses in agriculture, industry, and medicine in Bulgaria, review of, 25:51690 (A/CONF.49/P-107)
uses in agriculture, medicine, and engineering at IAEA laboratories, 1967, 24:9696(R) (STI/DOC-10/90)
uses in agriculture, review, 25:51968 (CONF-710428-, Paper 5)
uses in animal sciences and production, review on, 25:46669
uses in Arab Countries, activities of Middle Eastern Regional Radioisotope Center for developing, 25:51709 (A/CONF.49/P-797)
uses in Argentina industry, 24:39146 (PRNC-135, pp 360-74)
uses in biochemistry and organic chemistry, 21:45066
uses in biochemistry and plant physiology, review on, 25:46671
uses in chemical and petrochemical industries, 22:33275
uses in chemical and related industries, review of, 23:38193
uses in chemical industry, 21:38609
uses in clinical diagnosis in USSR from 1960 to 1970, 25:52128 (A/CONF.49/P-462)
uses in control of dust from blast furnaces, 25:46595
uses in control, measurement, and regulation of industrial processes, review on, 25:32141
uses in corrosion prevention research, 25:22016
uses in Czechoslovakia, France, Great Britain, and Soviet Union, 22:12546
uses in dairy industry, 21:34849
uses in dairy science, 21:34657 (STI/PUB-135)
uses in diagnosis and therapy of human lymphomas, 23:45841
uses in endocrine and metabolic studies, 25:2044(R) (TID-25460)

uses in engineering geology and hydrology, 25:48599(T) (AEC-tr-7230)
uses in engineering geology and hydrology, 22:37944
uses in engineering, curricula and laboratory equipment requirements for studies of, 25:39657
uses in entomology, bibliography on, 22:12896 (STI/PUB-21/24)
uses in European industry, prospects for increasing, 24:20955
uses in evaluating cleaning of surfaces in contact with dairy products, review of, 21:22106
uses in food science and technology, review on tracer, 25:57913
uses in Foratom countries of western Europe, review of, 22:8310
uses in France, regulations for commercial facilities for, 24:31598
uses in French industry, 1966 status of, 23:50057
uses in French industry, regulations for, 24:20957
uses in French industry, status of, 22:12545
uses in gages in France, survey of, 23:16172
uses in geology and hydrology, review of, 25:37548
uses in geology, hydrology, and mining in Poland, review of, 24:50464
uses in groundwater tracing, 21:36140
uses in Hungarian industry, review of, 25:51692 (A/CONF.49/P-325)
uses in hydrological tracer techniques, review of, 22:18924
uses in hydrology, 21:41006
uses in hydrology and sedimentology in France, 25:51613 (A/CONF.49/P-634)
uses in hydrology in Argentina, review of, 25:26353 (CONF-680112-, pp 37-52)
uses in hydrology in Australia, 22:30713
uses in hydrology research in Mexico, 25:51615 (A/CONF.49/P-790)
uses in hydrology, review of, 24:29462
uses in hydrology, review on, 25:51614 (A/CONF.49/P-769)
uses in IAEA member countries industry, 22:14683
uses in industrial analytical techniques, 22:4313
uses in industrial instrumentation in Spain, 22:14731
uses in industrial radiation chemistry, 21:40922
uses in industry, 22:22944
uses in industry, 24:25332
uses in industry, 21:27883
uses in industry and hydrology in India, 25:51612 (A/CONF.49/P-539)
uses in industry and research, 22:23232
uses in industry and research in Spain, review of, 25:51706 (A/CONF.49/P-727)
uses in industry and space, production and development of large-scale, 22:37939 (WASH-1095)
uses in industry and technology, review of, 22:42987
uses in industry for production control, review on, 24:36512
uses in industry in Australia, review on, 25:51381 (A/CONF.49/P-123)
uses in industry in Canada, review on, 25:51382 (A/CONF.49/P-164)
uses in industry in Japan, 24:31283
uses in industry in Japan, 25:51479 (A/CONF.49/P-827)
uses in industry, bibliography on, 21:45306 (CEA-Bib-94)
uses in industry, medicine, and research in Japan, regulations for radiation protection during, 25:21731
uses in industry, medicine, and research, method for measuring activity of liquid wastes from, 24:27313 (CONF-690540-, pp 57-75)
uses in industry, programs for undergraduate studies of, 25:39662
uses in industry, review of, 22:2315
uses in industry, review of, 22:30790
uses in industry, review of, 23:7705
uses in industry, review of, 24:31613
uses in industry, review of, 24:50530
uses in industry, summary of 1968 activities on, 23:4518
uses in industry, survey of, 22:14682
uses in Institute of General Chemistry, Warsaw, 22:4137
uses in instruments for automation and control of technical processes, 21:4717(T) (AEC-tr-6699)
uses in iron ore processing, review of, 22:25623
uses in Israeli industry, review of, 22:23220 (IA-1128, pp 160-8)
uses in Italian industry, legal aspects of, 25:42013
uses in Italian industry, legal role of CNEN in control of, 24:20971
uses in Italian industry, updating legal requirements for, 24:29461
uses in Japanese industry, present status and problems in, 24:31612
uses in Japanese industry, review on, 25:18608
uses in Japanese universities, review on status of, 23:45481
uses in Latin America, review of, 24:39142 (PRNC-135, pp 65-72)
uses in Latin America, survey of, 24:29460
uses in maritime radiology, bibliography on, 22:2254 (AED-C-25-01)
uses in measuring density and water content of concretes and soils, review of, 25:18599
uses in medical studies, review of first 10 years of, 21:17792
uses in medicine, 23:16354
uses in medicine and industry in Sweden, review of, 21:19862
uses in medicine and pharmacology in West Germany, evaluation of, 25:52105
uses in medicine and research, University of Minnesota radioactive waste disposal methods associated with, 24:7622
uses in medicine for diagnosis, review of, 23:29600 (CONF-670649-34)
uses in medicine, electronic equipment for, 22:19216
uses in medicine, review of, 22:12879
uses in medicine, trends in, 25:56983 (NP-18992)
uses in metallurgy, review of, 23:24397
uses in meteorology, conference on, 21:36150(T) (AEC-tr-6711)
uses in mining, 22:12537(T) (AEC-tr-6723)
uses in mixing and blending processes, 22:40329
uses in natural gas industry, 21:6156
uses in neutralization of electrostatic charges in USSR industry, 25:51704 (A/CONF.49/P-699)
uses in New Zealand, 1968, 24:27106(R) (NP-18207)
uses in Norwegian industry, review of, 24:4412
uses in nuclear medicine, selectivity measures for minimal radiation burden during, 25:35179
uses in oil and mineral exploration, survey of, 21:39029 (AERE-R-5368)
uses in paper industry, 21:6155
uses in petroleum industry, review of, 21:17793
uses in pharmacology in relation to nuclear medicine, survey on, 25:44824
uses in pharmacy and clinical biochemistry, conference on, 25:55255
uses in Poland, research progress on, 25:51710 (A/CONF.49/P-831)
uses in pollution measurement and control, 25:51712 (CONF-710428-, Paper 3)
uses in radiation facilities, design of equipment for, 25:2389
uses in railway transportation industry, 25:57672
uses in South Africa, 21:38826(R) (NP-16864)
uses in Soviet Union for mineral prospecting and exploitation, conference on, 21:6318(T) (AEC-tr-6466/4)
uses in Soviet Union, conference on, 21:6316(T) (AEC-tr-6466/2)
uses in space, review of, 22:8309
uses in steel industry, 22:49040
uses in Sweden, review on, 25:6341(R) (NP-18571)
uses in Swedish industry, 21:39145
uses in technology, 24:29446
uses in textile industry, 22:30787
uses in textile industry, 24:36511
uses in textile industry for oiling, sizing, waxing, and dressing of yarns, 22:21288 (EUR-3648)
uses in textile industry, abstracts of literature related to, 25:37544 (NP-18893)
uses in the chemical and petroleum industries in the Soviet Union, review of, 21:1530
uses in the Soviet Union in machine building and metallurgy, conference on, 21:6317(T) (AEC-tr-6466/3)
uses in tracer studies, design of facilities for, 25:2390
uses in U.S., predictions for, 24:47690
uses in United Kingdom industry, control and inspection of, 24:20958
uses in USA oil field technology, review of, 22:14689
uses in USSR agrochemical research, 25:51609 (A/CONF.49/P-434)
uses in USSR industry, review of economics of, 23:50083
uses in USSR oil field technology, 22:14690
uses in USSR, review of, 23:19909
uses in West German industry, 24:44342
uses in West Germany, 1965 to 1968, 23:24398
uses in world-wide industrial control instrumentation, development and economics of, 23:24382 (CONF-670649-14)
uses in x-ray fluorescence analysis, 21:21901
uses in x-ray fluorescence analysis, 24:36160(P)
uses in x-ray sources for diffraction analysis, 21:36436
uses of, 23:26267 (NP-17819, Chap.2)
uses of artificial and natural, in hydrology, review of, 25:2359
uses of artificial and natural, in hydrology, review of principles of, 25:2360
uses of α-emitting, for nonfuel applications, 21:36258 (EUR-3498.e)
uses of cyclotron-produced, in medicine and research, 22:12878
uses of short-lived, in generators for clinical use, 22:245 (BNL-11435)
uses of, bibliography on industrial, 21:14391 (ORNL-TM-1505(Pt.4))
uses of, Canadian program for development of industrial and medical, 22:8261
uses of, conference on, 21:45448
uses of, conference on, 21:45447
uses of, development of economic and efficient, 24:18564
uses of, developments in, 22:16637
uses of, educational program at Argonne National Lab. on, 22:4358
uses of, examples of, 21:19403
uses of, IAEA research contracts on, 24:4192 (STI/DOC-10/74)
uses of, in chemical analysis, developments in, 21:5756(R) (NBS-TN-404)
uses of, in chemical and petroleum industries, 21:1347
uses of, in industry in Czechoslovakia, review of, 21:1411
uses of, in polarography, 21:15831(R) (COO-256-65)
uses of, in x-ray spectroscopy, 21:2944
uses of, nontechnical aspects of, 24:20954
uses of, review of development of U.S, 24:1972
uses of, review of industrial, 21:5770
uses of, review of industrial, 22:23226
uses of, review of industrial, 23:50051
uses of, review of international developments in, 23:4787
uses of, review of large-scale, 21:45154
uses of, review of Oak Ridge Associated Universities special training programs on, 24:29449
uses of, review on, 23:35435
uses of, review on programs for, 24:46285
uses underwater, review on, 21:14022
utilization in Japan of, 23:15702
values for safe levels of, in aquatic environments, derivation of, 23:22317

Radiological Monitoring
see Radiation Monitoring

RADIOLOGY
(The study and science of use of radiations (and radioisotopes) for their diagnostic or therapeutic values)
see also Autoradiography
see also Radiography, Biomedical
see also Radiography, Industrial
see also Radioisotope Scanning
see also Radiotherapy
bibliography on, 25:37836 (TID-3319(Suppl.3))
bibliography on maritime, 22:35953 (AED-C-25-02)
book: Basic Medical Radiation Physics, 25:42555
book: Clinical Applications of Physics of Radiology and Nuclear Medicine, 24:9907
book: Clinical Radiation Pathology, Vol. 1, 23:8073
book: Mathematics of Radiology and Nuclear Medicine, 25:42433
book: Medical Radiology, 22:25929
book: Physician's Desk Reference for Radiology and Nuclear Medicine, 25:46916
book: Principles of Nuclear Medicine, 22:49411
book: Problems in Experimental and Clinical Radiology, 25:42292
book: Progress in Radiology, 22:38392
book: Radiation Physics in Radiology, 21:39362
book: Radioactive Nuclides in Medicine and Biology, 23:6502
book: Radiological Physics, 21:28508
book: The Photographic Action of Ionizing Radiations, 24:2455
book: The Physics of Radiology, 24:46646
book: The Year Book of Radiology, 1969, 23:43815
book: Therapeutic Radiology, 21:20313
conference on biochemical aspects of, 24:50746
conference on health problems relating to, 23:50452 (PHS-999-RH-33)
conference on medical, 23:45781
conference on, Japanese Radiological Society, 23:35820
design of infirmary unit for, in industry, 23:4956
developments in Federal Health Office in Germany, 25:21678 (NP-18631, pp 122-35)
developments in Federal Health Office, Germany, 25:21677 (NP-18630, pp 103-11)
developments in U.S.S.R, 23:9980(T) (JPRS-44356)
diagnostic, protection against excessive radiation exposure during, 21:10912
dose calculations and data for, activities of committee for, 24:50893 (CONF-691212-, pp 473-9)
dose calculations for human skin during cardiac, 24:48634
dose from diagnostic and therapeutic, to personnel, 21:12956
dose from medical, in Japan, 21:20229(R) (ABCC-65-66)
dose to man from medical, review of, 21:28476
dosimetry for gynecological, 21:18043
dosimetry in medical, problems of, 21:12864
dosimetry in medical, use of electron computer for, 21:20196
dosimetry in, review of, 21:12861
dosimetry in, review of units for, 21:12877
effects of medical, on development of leukemogenesis, 21:12960
effects of, on development of injuries of kidneys, 21:16492
effects on genetics of personnel, 21:32615
effects on health of personnel, 21:32693
effects on lungs, prevention of injurious, 21:28642
equipment for, sensitivity of proton-recoil zinc sulfide scintillation detectors as, 21:41223
exposure from commonly used radioisotopes in, 21:22494
film analysis in diagnostic, method for, 21:12935
hazards from medical, to patients and personnel, methods for protection against, 21:4802
hazards in, occurrence among physicians in Italy, review of, 21:28527
hazards of medical, to man, 22:49514
hazards to embryos and fetuses, review of, 21:26611
hazards to industrial personnel, 23:22316
hazards to mother and fetus during pregnancy, 22:4668
hazards to personnel in, review of, 21:8948
personnel training programs for, institutions offering federal grant-supported, 25:16193 (BRH/OBD-70-2)
program for research and training in, at National Institute of Radiological Sciences in Japan, 24:2688
radiation dose from, measurement of, review of, 21:6498
radiation dose to man and medical personnel during dental, methods for reduction of x, 22:38282
radiation dose to personnel in, methods for reduction of, 22:43334
radiation effects on life span of technicians, 21:26586
radiation effects on life-span of U. S. radiologists, 21:1823
radiation protection during dental, 21:12859
radiation protection during dental, methods for, 21:12857
radiation protection legislation for, 25:16208 (BRH/ORO-70-8)
radiation protection of personnel in, 21:22457
radiation protection standards for, in Germany, 21:20212
radioinduced skin injuries to personnel in, 21:1789
radioisotope production for, 23:20300
radioisotope use in, for localization of placenta, 21:12895
radiopharmaceuticals for use in medical, review of recent progress in, 23:50658
research activities at National Institute of Radiological Sciences, Japan, during 1969, 25:29572(R) (NIRS-AR-13)
research at ANL, July 1969—June 1970, 25:16212(R) (ANL-7760(Pt.1))
research at Columbia Univ., July 1, 1971, 25:55205(R) (NYO-2740-8)

  - research at Nat. Inst. of Radiological Sciences, Japan, 1969—1970, 25:16278(R) (NIRS-9)
  - research from July 1967 to June 1968, 24:31808(R) (ANL-7489)
  - research in medical, in Russia, outline of five-year plan for, 21:39537
  - research on, review of AEC, 22:21017
  - review of literature in, translation of Polish, 24:46624(T) (TT-69-50002/4)
  - safety of, during pregnancy, 21:14759
  - safety procedures for dental, during examination of pregnant patients, 21:10911
  - standards and units for, review of, 23:16852
  - training program for personnel in, 21:45736
  - training programs for specialists in nuclear medicine in Spain, 23:31832 (CONF-670649-5)
  - use in detecting osseous metastases, efficiency of, 21:26499
  - use in New Orleans, 22:28534
  - use of pegged kilovolt techniques in, advantages of, 21:6553
  - use of phantoms in, for adjustment of x-ray equipment, 21:6499
  - use of three-dimensional scannograms in, 22:45649
  - uses for demonstration of bone sclerosis due to mastocytosis, 21:20298
  - uses of radioisotopes in, review of, 22:12879
- Radiolysis
    - see Radiation Chemistry
- RADIOMETERS
    - (Devices for measurement of radiant energy by conversion to mechanical energy, e.g., vaned radiometer found in jewelry store window)
  - accuracy of, nomograms for determining, 23:13991(T) (TT-67-51409/4, pp 77-80)
  - description for direct measurement of radioactivity in seawater, 25:37625(T) (JPRS-53090, pp 1-17)
  - design and performance of microwave correlation, 21:12702 (AD-639328)
  - design for detecting solar radio bursts, (E), 22:38648 (N-68-12859)
  - design for measuring x-radiation yield, 21:1525(R) (NYO-3491-1)
  - design of automatic, for use in chromatography, 21:10263
  - design of microwave sampling, for absorption and emission measurements in magnetized afterglow plasma diagnostics, 24:508
  - design of microwave, for temperature monitoring in reactors, 22:2446 (BNWL-399)
  - design of sensitive microwave-gated, for low-temperature plasma afterglow studies, 25:40601
  - design of, for flaw detection in welded seams, 21:4720
  - design of, for measurement of intense thermal radiation doses on skin, 21:399
  - design principles for solar radio flux, (E), 21:16228
  - development for measurement of spectra of short wave solar radiation, 25:49154(R) (ORO-4241-1)
  - energy discrimination of SRP-2, for β and γ rays, 21:1664
  - moderators for neutron, optimum dimensions of, 21:16181
  - optical, research on, (R), 22:5416(R) (NP-17117)
  - performance of active cavity, for scalar radiant flux of sun, (E), 25:43076
  - performance using zinc sulfide phosphors for alpha detection, 21:28252
  - quantum yield temperature coefficient of uranyl oxalate actinometer, 21:12423
  - sensitivity for discrimination between lightning and air-fluorescent emissions, 23:21839 (LA-3757)
  - sensitivity of radio telescope, parametric amplifiers for improving, 24:27467(T) (CSIRO-Trans-10098)
  - use of infrared, for detecting changes in isotopic purity of water, 21:14372(P)
  - use of infrared, for nondestructive testing of thin-walled tubes in heat-exchange systems, 21:10557
  - use of infrared, for testing of bonding of graphite-coating, 21:41685 (BNWL-SA-1161)
  - use of RD-15 gamma, for determining water current velocities, 21:16216
- RADIOMETRIC ANALYSIS
    - (Quantitative chemical analysis for a radioactive component with a known specific activity, based on measurement of its absolute disintegration rate)
  - beta counting procedures for air filter sample, standardization of, 21:30482 (NRL-Memo-1764)
  - book: Analytical Chemistry. Theoretical Foundation, Radiochemistry, Qualitative, in French, 24:13
  - book: Applied Gamma Ray Spectroscopy, 25:13231
  - book: Current Status of Liquid Scintillation Counting, 25:4358
  - book: Nuclear Physics Methods for Analysis of Mineral Ores, in Russian, 24:18904
  - book: Progress in Nuclear Energy. Series IX. Analytical Chemistry. Vol. 7, 21:25799
  - book: Radiological Health Handbook, 25:49203 (PHS-PUBL.-2016)
  - book: Radiometric Titrations, 21:25808
  - book: Radiometric Titrations, 22:16469
  - computer program for least-squares resolution of γ spectra by half-life and γ energy in, 24:31284
  - computer techniques in, 22:45006
  - conference, 21:45448
  - conference, 21:45447
  - conference on, Poznan, Poland, November 1968, 25:2141
  - data analysis from liquid scintillation counting, use of desk-top computer for, 24:4233
  - data analysis from single- or double-labeled experiments in, computer method for, 25:37315
  - design of respirometer for use with, for measurement of metabolism of carbon-14-labeled substrates in biological systems, 21:39331
  - detectors for use with column liquid chromatography in, 25:12952
  - development for industrial uses in Poland, review on, 25:15526
  - development for safeguard purposes in material accountability program, destructive and nondestructive, 23:31235 (BNL-13627)
  - development for studies of radioisotopes in environmental samples, 25:37259 (BNWL-1551(Pt.2), pp 51-62)
  - development for use with substoichiometric methods with isotope dilution analysis, 25:31828 (CEA-R-4100)
  - development of, 21:45054
  - development of radio-release method of, 23:40571 (ORNL-IIC-18)
  - development with high-yield proportional counters and low-activity sources, 22:311 (ORNL-IIC-10(Vol.2), pp 944-62)
  - developments in, 25:18870
  - developments in, review on, 21:2953
  - economics in metallurgy, 21:27929
  - equipment and method for liquid scintillation, 24:16852
  - equipment and methods for, 21:24239
  - equipment and methods for x, in USSR, 25:51405 (A/CONF.49/P-464)
  - equipment and procedures for geologic materials, 21:39030(R) (COO-689-76)
  - equipment development for, 24:25008(P)
  - equipment for beta-reflection, 21:38890
  - equipment for determining efficiency of Purex Process, 23:7761
  - equipment for, design of liquid scintillation spectrometer, 24:19234(P)
  - equipment for, design of window assembly, 22:19181(P)
  - equipment sensitivity and spectral response in, 21:2960
  - film preparation for, 4π source-carrier, 22:4063(P)
  - gamma spectra in, bibliography on, 21:21854 (AD-643127)
  - ion-exchange membranes in radiochelatometric titration of traces of metals, 21:30360
  - isotope dilution in, use of, 21:12347
  - isotope effects quantitation in countercurrent distribution in, 24:33641
  - kryptonate uses in, review on, 25:51384 (A/CONF.49/P-556)
  - manual for, of biological and environmental samples, 21:30351 (NYO-4700(2nd Ed.))
  - method for coal and metal ores, 21:32266
  - method for endpoint detection in partition titrations in, 24:18912
  - method for solids suspended in liquid, 23:49734(P)
  - method for uranium minerals, 21:34342 (JINR-P13-3159)
  - method of, for determining strontium-90 in marine organisms, 21:8809(T) (AEC-tr-6641, pp 121-7)
  - methods and instruments for, 24:27002
  - methods and uses of, review of, 21:15862
  - methods for biological samples, manual of, 21:38815(R) (BNWL-293)
  - methods for Columbia River Estuary water samples, 21:39044 (RLO-1750-22(Vol.2), Paper 2)
  - methods for compound identification in countercurrent distribution, 24:33648
  - methods for determination of trace amounts, review on, 24:18902 (LYCEN-6957)
  - methods for sample preparation of tissues for measurements of enzyme activity by labeled inhibitor methods, 23:38388
  - methods for traces of elements, radio-release, 25:51399
  - methods for, compilation of, 21:45010 (LA-1721(3rd. Ed.))
  - methods for, of inorganic trace elements, 21:45054
  - methods for, review on, 25:26164
  - methods for, using x radiation, 22:33212
  - methods in, 22:37678
  - methods of, using isotopic exchange, 21:38918
  - methods of, using radioactive reagents, 21:2987
  - methods of, using titration, 21:12348
  - methods survey of, 22:30475
  - methods using γ-ray spectrometry and computers, 22:37693
  - precipitation of labeled ions using inactive standard solutions, theory of titrimetric, 21:25790
  - precipitation titrations in, equivalence point and solubility product determination in, 21:5771
  - principles in, review of, 22:40048
  - review on methods for, 22:4027
  - sample preparation for liquid scintillation counting of tritiated biological materials, combustion system for, 24:4235
  - sample preparation for liquid scintillation counting of tritiated biological materials, combustion system for, 24:4234
  - sample preparation for, by liquid scintillation counting, 24:18911
  - sensitivity for trace characterization, 22:30478
  - sensitivity of complex methods of, calculation of, 23:44
  - sensitivity of electron probe, effects of atomic number on, 23:11437
  - separation of short-lived products of nuclear reactions in, 22:44973 (JINR-P7-3855)
  - standards for, evaluation of self-volume, 25:18361
  - techniques based on substoichiometric separation, automation of, 22:40050
  - titration method for, 23:19670
  - titration method of, using ion exchange, mathematical equations for, 23:17355
  - titration methods in, correction for titration agent consumption in, 21:45038
  - titration methods in, for classroom studies of precipitation reactions, 23:11433
  - titration methods of, correction for titration agent consumption in, 21:45038
  - trace characterization by, 22:30490
  - units, definitions, and conversion factors for, 23:1164
  - use in biochemistry, review on, 22:25271
  - use of, for determining radioactivity in marine organisms, 21:8810(T) (AEC-tr-6641, pp 128-44)
  - uses in art identification problems, 25:51410(R) (NYO-3953-3)
  - uses in industry, 22:22944
  - uses in industry in Australia, review on, 25:51381 (A/CONF.49/P-123)
  - uses in industry in Canada, review on, 25:51382 (A/CONF.49/P-164)
  - uses in industry, review on, 24:11476
  - uses in mineral exploration and exploitation, conference on, Krakow, Dec. 8 to 12, 1969, 25:41941 (STI/PUB-279)
- Radiometric Thickness Gages
    - see Thickness Gages
- RADIOMIMETIC SUBSTANCES
    - (Imitating effects of radiation in biological systems)
    - see also Alkylating Agents (Biological)
    - see also Ethyl Carbamate
    - see also Ethylenimine
    - see also Heliotrine
    - see also Mustard Gas
    - see also Nitrogen Mustards
    - see also Propylene Oxide
    - see also Tetrodotoxin
    - see also Vincristine
  - activity of iododeoxyuridine as, in ileal cells of rats, 21:8911(R) (NYO-2778-4)
  - bibliography on procedures for, 21:30351 (NYO-4700(2nd Ed.))
  - book: Radiotoxins, Their Properties and Role in the Biological Effects of High Energy Radiation, 21:36745
  - cycasin, effects on root tip chromosomes of onion and Zamia in comparison to β-glucosidase and methylazoxymethanol, 25:42334
  - development of biological model for testing, 23:10027
  - effectiveness of enzymatic oxidation products of tyrosine as, 21:36502
  - effects of 5-fluorouracil as, on rats, 21:20408
  - effects of actinomycin and puromycin on enzyme regulation in rat liver, 21:20396
  - effects of embytol on transferase activity in rabbit tissues, 21:1811
  - effects of, in stimulating age-dependent deterioration, 21:12975
  - effects of, on biological materials, protective effects of aminothiols and Bunte salts against, 21:6552
  - effects of, on radiosensitivity of plant cells, 21:1837(R) (NYO-2587-21)
  - effects on bacteria and cells, review of repair processing following, 24:34787
  - effects on beans for chlorophyll and morphology, mutagenic cycasin, 25:4717 (NYO-2043-216, pp 1-18)
  - effects on chromosomes in insects in comparison to radiation, aberrant α, 23:20455
  - effects on chromosomes of Haplopappus gracilis, 22:31139
  - effects on chromosomes of Vica faba, combined effects of inhibitors of DNA synthesis on aberrant, 22:47505
  - effects on development of nervous system of fetuses, teratogenic, 23:50818
  - effects on embryonic organs, comparison with effects of x radiation, 21:24544 (EUR-3251.f)
  - effects on genetic materials in plant cells, validity of chromosome aberration frequency as indicator of, 25:49158
  - effects on histamine content in tissues of rats, naturally occurring, 21:22743
  - effects on histamine content of tissues in rats, comparison of, to radiation and vibration effects, 22:25964
  - effects on phytohemagglutinin-induced mitosis in lymphocyte cultures, 22:16996
  - effects on reproductive capacity of male mosquitos, 22:52110
  - effects on slime-producing mutant of Escherichia coli, 22:33795
  - effects on ultrastructure of tumor cells, 24:34386
  - effects on viability of E. coli, protective effects of manganese dioxide-supplemented culture media against, 21:24481
  - methylazoxymethanol, effects on root tip chromosomes of onion and Zamia in comparison to β-glucosidase, cycasin, and x radiation, 25:42334
  - preparation of anti-, from ginseng root, effects of, on hemolysis, 23:4985
  - preparation of natural, from liver of γ-irradiated rabbits, method for, 21:22743
  - protection against, use of AET for, 21:22296
  - research at Chalk River Nuclear Laboratory on, 24:39450(R) (AECL-3451)
  - research at CRNL during 1969, 24:39425(R) (AECL-3565)
  - use in Escherichia coli, for model studies on radiporotective compounds, 21:22640
- RADIOMETRIC TESTING
    - (Testing methods that employ penetrating radiation and a radiation detector)
    - see also Densimeters
    - see also Thickness Gages
  - book: Measuring Methods Using Ionizing Radiation, 25:29391
  - book: Recommendations on the Use of Radioisotope Methods for Determining the Physico-mechanical Properties of Soils, 25:42176
  - detection of flaws in dense materials by neutron scattering, 22:33619(P)
  - development for reactor fuel plates, 23:47717 (ORNL-4420, pp 188-97)
  - development of gamma scatter-type, using promethium-147 source, 24:44213 (ORNL-4560, pp 251-60)
  - equipment and method for concretes, 24:27306
  - equipment and method for magnesite bricks using cesium-137 source, 25:51733 (SGAE-IB/IA-24/1971)
  - equipment and method for rolled long steel products, 24:48235
  - equipment and methods for, of reactor materials at ORNL, development of, 25:34829

equipment for beta backscatter, design of portable, 24:16906(P)
hardness measurement using β backscattering, 22:12561(P)
instrument for, design of, 25:26543(P)
method for coal, 24:29473
method for detection of radiation leakage from shielded shipping containers, 23:33356
method for fiber-reinforced composites using gamma radiation, 25:34838
method for fuel cladding thickness measurements, 25:29287 (ORNL-4630, pp 145-9)
method for graphite and hydrocarbons by gamma backscatter, 25:15858
method for irradiated reactor fuels, 25:6503
method for materials, review of, 25:26440
method for measuring coating thickness, accuracy and standards for, 24:14201
method for measuring thickness of fuel element cladding, 25:8440 (ORNL-4600, pp 266-70)
method for monitoring rate of deposition or removal of substances on base surfaces, 25:23893(P)
method for reactor components and materials, development of, 25:48769 (ORNL-TM-3416, pp 232-8)
method for reactor materials, 25:29288 (ORNL-4630, pp 271-9)
method for reactor materials and components, 23:24408 (ORNL-4390, pp 177-88)
method for wall thickness, development of masking technique for, 22:19081
method for, review of French, 22:49035
methods and facilities for thickness and density measurement, 24:46529
methods development for, 22:8741 (ORNL-4170, pp 119-23)
methods for flaw detection, effects of geometric, kinetic, and radiological factors on, 25:32157
methods for reactor materials, development of, 24:2407 (ORNL-4470, pp 118-20)
methods for reactor materials, development of, 25:2409 (ORNL-4570, pp 149-51)
methods for reactor materials, development of x-ray attenuation and radiation scattering, 24:16808 (ORNL-4480, pp 266-73)
methods for, review of, 25:342 (KURRI-TR-58)
models for gamma—gamma, determination of minimal dimensions of, 24:19252
performance of gamma-scintillation, for detecting material defects, effects of noise level and source characteristics on, 25:57701

Radiometric Well Logging
see Well Logging

RADIOOPAQUE AGENTS
see also Diatrizoate Sodium
see also Iodipamide
see also Ioglycamic Acid
see also Thorium Oxides ThO_2
diffusion through monkey blood-brain barrier, iodine-125 tracer study of effects of parabens on, 23:26654
effectiveness of powdered tantalum, for radiography of upper respiratory mucosa, 25:55291
effects of radioisotope-labeled, on resolution during radiography of urinary tract, 22:25957
effects of residual barium, on liver scanning, 23:48101
effects on bremsstrahlung- and γ-dose field measurements in water phantoms, 22:45630
effects on human brain tissue, use of technetium-99m to determine, 23:41476
effects on iodine-131 and -132 uptake by human thyroid gland, biligrafin and urografin, 22:38340
iodine-131 incorporation in ethiodol, effects of, on human bladder during lymphangiography, 23:2872
preparation and evaluation of lithium-incorporated, for urography, 25:557
radiation effects on toxicity of, iodine-containing, to mice, acute x, 22:52112
radiation injuries from, to man caused by use of Thorotrast during carotid angiography, 21:6637
radium-224 contamination of Ixthor, 22:40709
testing tantalum aerosols for use as, for respiratory tract radiography, 25:42558
use of dilute, for improving quality of myelographic images, 25:13496
use of iodine-131-labeled iothalamate, for measurement of glomerular filtration rate in man, 23:50243
use of iodine-131-labeled Lipiodol, for endolymphatic therapy of malignant lymphomas in man, 23:877
use of iodine-131-labeled lipiodol, for therapy of lymphatic neoplasms, 23:50782

Radiopasteurization
see Radiopreservation

Radiophotoluminescent Detectors
see Radiation Dosimeters, Photoluminescent

RADIOPRESERVATION
see also Food Irradiation Facilities
see also Radiosterilization
approval of U.S. Food and Drug Administration of, for bacon, 21:30941 (CONF-670202, pp 49-51)
bibliographies on food, 21:45857
bibliographies on fruit and vegetable, 21:45855 (ORNL-IIC-11)
bibliographies on techniques for, of fruits and vegetables, 22:599 (LS-173)
bibliography of technical publications on, Brookhaven National Laboratory, July 1965 through June 1968, 23:19902 (BNL-50132)
bibliography on food, 22:38508 (AED-C-05-07)
bibliography on fruit and vegetable, 23:5061 (ORNL-IIC-11(Suppl.1))
bibliography on fruit and vegetable, 23:43925 (ORNL-IIC-11(Suppl.2))
book: Radiation Preservation of Foods, 22:8670
Clostridium growth in ground fish after, effects of temperature on, 21:3454 (COO-1183-17)
commercial development of, for bacon, 21:208 (BNL-10652)
conference of AEC contractors on food, 22:17065
conference on food, 21:26702 (STI/PUB-127)
conference on food, 21:30935 (CONF-670202)
conference on fruit and vegetable, 24:48773 (STI/PUB-149)
conference on microbiological problems in foods, 24:48751 (STI/PUB-168)
conference on problems and techniques of, in European Atomic Energy Community, 25:52286 (EURISOTOP-43)
contractors' meeting on food, 1967, 23:18139 (CONF-670945)
cost factors for food, 21:26742
damp harvested maize, effects of slow drying on, 21:26717
design and performance of shipboard irradiator for, of fish and clams, 21:10549 (TID-23398)
design of industrial-scale facility for, of grain, γ, 22:4717
design of pilot plant for food, 21:26745
development in USA, roles of government and industry in, 22:19464
developments for food, in United Kingdom and United States, review of, 21:39541
developments in commercial-scale food, review of, 22:14730
developments in food, conference on, 21:39147
developments in food, in Belgium, 21:36776
developments in Member States of Eastern Bloc, review of, 22:27973
dosimeter for use in high dose level, 25:18803(P)
economic and engineering evaluation of food, 23:17657
economic aspects of food, 23:21863 (TID-24058)
economic aspects of food, in relation to related industries, 23:45980(T) (ORNL-tr-2216).
economic aspects of meat, 23:45979 (NYO-3831-1)
economic aspects of, of foods, 22:4716
economic aspects of, of meat and meat products, 21:26715
economic aspects of, of meats and poultry, 21:26714
economic comparison to refrigeration, 23:38908
economic feasibility of fish, in Germany, γ, 21:34842
economic feasibility of large radiation sources for, of potatoes and onions, 21:32329 (NP-16757)
economics for dehydrated cereals and vegetables, 21:30942 (CONF-670202, pp 53-60)
economics for inhibition of sprouting of stored potatoes, 21:30940 (CONF-670202, pp 39-48)
economics of food, 21:26732
economics of food, 21:26731
economics of food, 21:26728
economics of food, cost factor check list for, 21:30945 (CONF-670202, pp 71-89)
economics of haddock, 23:29934
economics of potato, in relation to consumption in Spain, 23:24777 (CONF-670649-33)
economics of, of foods, 21:10504 (NP-16382)
effectiveness for fish and sea foods, 21:26720
effectiveness of food, evaluation of, 24:25621
effects of γ, on peeling characteristics of hard-cooked eggs, 21:13091
effects of, and post harvest procedures for extending shelf life of fruits, 21:4891(R) (UCD-34-P-80-4)
effects of, on biochemistry and physiology of fruits and vegetables, 21:9036 (NYO-3274-4)
effects of, on color changes in meats, 21:11165
effects of, on microflora of refrigerated perch fillets, 21:14785
effects of, on microflora of refrigerated sole fillets, 21:14783
effects of, on mitochondria of cherries and pears, 21:13061
effects of, on nutritive value of foods, 21:11164
effects of, on refrigerated storage life of fish, effects of packaging on, 21:1858
effects of, on storage life of crabmeat, 21:6747
effects of, on storage life of crabmeat and oysters, 21:6740 (RLO-1950-1)
effects of, on storage life of potatoes, 21:9037
effects of, on wholesomeness of powdered eggs, 21:9040
effects on ascorbic acid content and texture of fruits, 21:444(R) (TID-23370)
effects on bacterial spoilage of food, problems of, 21:1853
effects on biochemical characteristics of lemons, γ, 21:41528
effects on buds and leaves of potato tubers, effects of storage time on degenerative, 21:45845
effects on chemical composition of foods, 21:34844
effects on chemical reactions in food, 22:40990
effects on flavor and texture of cured ham, 21:6741
effects on flavor of meats of, 21:26715
effects on flavor of pears, 21:22836
effects on flour, effects of, on wholesomeness of bread, γ, 21:26710
effects on food supply of world, 21:41523 (AECL-2873)
effects on food, review of, 23:8098
effects on fruits and vegetables, feasibility of fungicidal, 21:24693 (UCD-34-P-73-12)
effects on fungi on fruits and vegetables, feasibility of fungicidal, 21:24693 (UCD-34-P-73-12)
effects on growth of Salmonellae on foods, 21:26712
effects on growth of Staphylococcus aureus on bacon, 21:22806
effects on lipid oxidation and pigmentation in beef, 21:41529
effects on lipid oxidation in pre-cooked beef, γ, 21:24309
effects on microorganisms in fish fillets, 21:20461
effects on nutritive value of foods, 21:34844
effects on onions, effects of, on genetics of rats following ingestion, γ, 21:43545
effects on onions, effects of, on pathology in rats following ingestion, γ, 21:43548
effects on organoleptic properties of meat, effects of storage at refrigerator temperatures on, 21:28707
effects on quality and shelf life of food, review of, 24:25623
effects on quality of meats, effects of storage temperature on, of beef and pork, 21:24700
effects on quality of strawberries, effects of storage temperature on γ, 21:28706
effects on Salmonella infections in oysters, effects of food additives on γ, 21:28703
effects on shelf life and wholesomeness of foods, 21:6144 (IA-1082, pp 255-88)
effects on shelf life extension of fruits and vegetables, 21:4892 (UH-235-P-5-2)
effects on shelf life of oysters and shrimp, 21:45856(R) (ORO-654)
effects on storage life of cooked lobster meat, 21:41526
effects on storage life of eggs, 21:26716
effects on storage life of fish, 21:26721
effects on storage life of fish, 21:26736
effects on storage life of food, 21:26729
effects on storage life of foods, 21:26743
effects on storage life of poultry, 21:26716
effects on storage life of seafood, 21:26721
effects on storage life of sweet red pepper, Capsicum annuum, 21:26737
effects on sugar beets, γ, 21:34850
effects on vitamin content of foods, 21:26726
effects on wholesomeness of chicken meat, 21:43547
effects on wholesomeness of chicken meat, effects of storage temperature on, 21:18202
effects on wholesomeness of food, 21:26725
effects on wholesomeness of foods, 21:26726
effects on wholesomeness of foods, 21:26743
effects on wholesomeness of ocean perch fillets, 21:20460
effects on yeast development on crab meat, 21:28679
efficiency of food, evaluation of combined heat effects on, 24:25624
efficiency of γ, of Sardinella melanura, 21:6744
equipment and methods for food, 1969 status of USAEC projects on, 24:33846 (TID-25372)
evaluation of fish, use of measurement of electrical conductivity for, 21:26724
facilities for food, in France, 1966, 21:26744
facilities for food, in Germany, 21:26707
facilities for food, in Hawaii, design and cost of, 21:34404 (BNL-11512)
facilities for food, in U.S, 21:26742
facilities for food, in United Kingdom, 21:26708
facilities for tropical fruit, at Puerto Rico Nuclear Center, 21:39085
facility for x, of cereals, design and use of, 21:24696
feasibility for fish in Europe, 24:2862
feasibility studies in fruits, 21:20455(R) (ORO-3097-9)
hazards from toxins induced in foods by, methods for evaluating, 21:9039
hazards to consumer from, effect of storage time of foods on, 21:14786
legal aspects of distribution of food treated by, 21:32816
legal aspects of food, 22:4726
legal aspects of food, in Germany, program for international coordination in, 24:34836
legal aspects of food, in the Netherlands, 23:6479
legislation governing food, in Belgium, 21:26735
legislation governing food, in Europe, 21:26733
legislation on food, joint recommendations of FAO, IAEA, and WHO for, 21:20464
method for food, description of industrial, 22:47297
methods for food, 23:12248(T) (ORNL-IIC-14)
methods for food, present status and future prospects of, 24:25622
methods for food, review of, 24:32315
methods for food, review of research on, 22:36424
methods for foods, 21:41150 (NP-16994)
methods for meat, 21:22831(T) (JPRS-40119)
methods for seafood in Spain, 24:2863
mutagens induced in foods by, 21:22835
of food, hearings before subcommittee of congressional Joint Committee on Atomic Energy on, 23:955
packaging for, effects of, on haddock, 21:24697
panel on enzymological aspects of food, conclusions, recommendations, and summaries of, 24:6163
panel on fish, Vienna, Austria, Dec. 15 to 19, 1969, 25:24489 (STI/PUB-196)
patent for process for fish, 23:50972(P)
petitions for food and packaging materials, status of FDA, 23:19879 (NP-17799)
programs for food, index of, 23:8094 (NP-17534)
programs for meat products in Czechoslovakia, cobalt-60, 24:42046
programs for trout, evaluation of, 24:48778
radiation dose effects on, of potatoes, fast electron and γ, 21:24701
radiation sources for food, capacity and efficiency of, 21:24142
radiation sources for, of bulk materials, 21:16075
radiation sources for, of cereals and grains, design of equipment for exposing and shielding, 21:17795(P)
regulation for food, in United Kingdom, review of, 22:17067
regulations for food, international, 21:34844
regulations for, of food in United Kingdom, 22:43506
research at IAEA laboratories, 1966, 24:7389(R) (STI/DOC-10/77)
research at Israel AEC, Jan.—Dec. 1967, 22:48806(R) (IA-1168)
research at Puerto Rico Nuclear Center, 1967, 22:48807(R) (PRNC-121)
research facilities for food, review of, 21:12557
research in Canada, 21:5595 (AECL-2486)
research in various countries, review of, 22:45738
research on food, EURATOM-ITAL, 24:39587(R) (NP-18287)
research on Pacific seafood, by Bureau of Commercial Fisheries, Seattle, 1967, 23:41517(R) (TID-24317)
research on, Div. of Isotopes Development, 1967, 22:47294(R) (TID-24349)
research progress on, of food, O.E.C.D. member countries, 1966-67, 21:32814

research status on food, in Germany, 22:37628 (ISS-68/1)
review of cereal and food, γ, 24:9982
review of fish, in Australia, in comparison to heat sterilization, 24:29898
review of food, 22:52106
review of food, in Europe, present status and future prospects of, 23:50968
review of status of food, 24:8036
safety of food, procedures for release for public consumption in U.S, 21:26734
status of food, evaluation of, 25:24524
status of food, in USA in 1968, 23:38909
treatment of foods, gas chromatography for detection of, 21:45860
USAEC's program on, of selected products, cost—benefit study of, 21:19853 (NYO-3666-1)
use for canned evaporated milk, γ, 21:34849
use for food, review of, 21:24704
use for foods, review of, 21:24702
use for foods, U.S. Food and Drug Administration regulations for, 21:30943 (CONF-670202, pp 61-5)
use for increasing storage life of frozen eggs, 21:28705
use for increasing storage life of poultry, 21:28705
use in food processing in the Netherlands, review of, 22:52066
use in international food problems, review and recommendations on, 22:28727
use of combined γ radiation and tetracycline for, of poultry, 21:13093
use of electron beams for, of fruits and vegetables, 21:9006(R) (EUR-3163.e)
use of γ radiation for, of beef, 21:24705
use of sorbic acid in, of cheese, 21:14784
use of uv radiation in refrigerators for, 21:18200
use of, for extension of shelf life for fresh water fish, 21:6739(R) (COO-1283-40)
use of, of food in United Kingdom, 21:6743
use to increase storage life of bread, 21:32812 (SGAE-BL-19/1967)
uses in processing of foods, feasibility of, 21:28715
uses of radioisotopes and nuclear radiations for, of food, 21:6316(T) (AEC-tr-6466/2)
RADIOPROTECTIVE COMPOUNDS
see also Actihaemyl
see also Adrenochrome
see also AET
see also Agmatine
see also Amines
see also Amino Acids
see also Amino Group
see also 5-Azacytidine
see also Benzoic Acid, p-(Hydroxymercuri)-
see also Calcium Citrates
see also Carbon Monoxides
see also Cepharanthine
see also Chlorpromazine
see also Chromomycin A_3
see also Coamid
see also Cyanides
see also 1,3-Cyclohexanedione
see also 1,3-Cyclohexanedione, 2-Methyl-
see also Cysteamine
see also Cysteine
see also Cystine
see also Cytosine, 5-Fluoro-
see also 1,10-Decanediamine
see also Dopamine
see also Endotoxins
see also Enzyme Inhibitors
see also Esculin
see also Ethylamine, 2,2'-Dithiobis[N,N-dimethyl-
see also Ethylamine, 2,2'-Thiobis-
see also 3,3',4,4',5,5',7-Flavanheptol
see also Formaldehyde Sodium Sulfoxylate
see also Gallic Acid, Propyl Ester
see also Glucans
see also Guanidine, 1,1-(Dithioethylene)di-
see also Guanidine, 2-(3-Mercaptopropyl)-
see also Hormones, Sex—chlorotrianisene
see also Hydrogen Sulfides
see also Indole, 3-(2-Aminoethyl)-5-methoxy-
see also Kallikrein—Trypsin Inhibitor
see also Lysozyme
see also Marinamycin
see also Mercapto Group
see also Methoxamine
see also Methyl Sulfoxide
see also Methylamine
see also Metoclopramide
see also Neomycin
see also Nitriles
see also 1,9-Nonanediamine
see also Nylidrin
see also Olive Oil
see also Phenelzine
see also Polysrobate 80
see also Pregna-1,4-diene-3,20-dione, 9-fluoro-11β,17,21-trihydroxy-16β-methyl, 17-Valerate
see also 2-Propanethiol, 1-Amino-
see also Propioamidine, 3,3'-Dithiobis-
see also Propiophenone, p-Amino-
see also Propiophenone, 3-Piperidino-
see also Propolis
see also Protamines
see also Pseudourea, 2-(3-Aminopropyl)-2-Thio-
see also 2H-Pyrido[4,3-b]indole
see also 2-Pyrrolidinone, 1-[4-(1-Pyrrolidinyl)-2-Butynyl]-
see also Pyruvaldehyde, 1-Oxime
see also Rutin, Tris(hydroxyethyl)-
see also Salsoline
see also Saramycetins
see also Sodium Nitrites
see also Succinic Acid, [(Carboxymethyl)thio]-
see also Sulfanilamide
see also Suramin
see also 2-Thiazolidineacetic acid, 4-Carboxy-α-phenyl-, 2-Ethyl Ester
see also 2-Thiazoline, 2-Amino-
see also Thiols
see also Tissue Extracts
see also Trioxsalen
see also Tryptamine
see also Tryptophan, 5-Hydroxy-
see also Urea, Seleno-
see also Wistarin
2-alkyloximinomercaptans, preparation and properties of, 25:42532
activity in animals, mechanisms of, 22:4656
adenosine derivatives, effects on survival of γ-irradiated mice, 25:42516
Adona, effects of, on rat liver following x irradiation, 23:10071
Aktihaemyl, effects on survival of γ-irradiated mice, 22:38415
amytetravit, effectiveness in dogs exposed to acute and chronic irradiation, 24:50951
amytetravite, effects on hematopoiesis in dogs exposed to chronic γ radiation, 25:39925
α-amidrazonium thiosulfates, preparation and properties of, 25:52204
bee's milk, effects of combined placental preparations and, on rats exposed to x radiation, 25:46891
bibliography on, 21:1775(T) (AD-633268)
bibliography on, 21:39471
bibliography on, 21:1773 (SZS-5/66)
book: Early Radiation and Biochemical Reactions, 22:40612
book: Experimental Studies of Prevention of Acute Radiation Sickness, 23:6546
book: Oxidation Equilibrium and the Radiosensitivity of Organisms, 25:42528
book: Problems of Space Biology, Vol. IX; Outlines of Space Radiobiology, 25:21918
book: Protection Against and Repair of Radiation Damage, 21:10999
book: Protection Against and Repair of Radiation Injuries, 22:25930
book: Radiation and Chemical Protection, 22:47574
book: Radiation Protection and Sensitization, 25:4534
book: The Principles of Radiation Biology and Biochemistry, 23:5007
comparisions of, in γ-irradiated mice, 21:20253
conference on, Radiation Research Society, 24:6029
criteria for development of chemical and physical, 22:51875 (TID-4060(1st Ed.))
curarizing effects of selected, in vitro study of, 22:31118
cystaphos, effects on corticosterone content of blood of rats, 23:29774
cystaphos, effects on sensitivity of x-irradiated mice to Salmonella endotoxin, 23:18081
cystaphos, radioprotective effects of, on colony formation in spleen of mice, γ, 23:29773
cystophos, effects on elastoviscous properties of DNA in γ-irradiated bacteria, 23:17954
development in Ukrainian SSR for use in agricultural plant production research, 25:51962 (A/CONF.49/P-694)
dithiotreitol, radioprotective effects of, on survival of mice, x, 23:2865
effectiveness for spaceship crews, 25:16215(T) (JPRS-52121, pp 21-4)
effectiveness in mice, in relation to redox potential of muscles, 22:25867
effectiveness in postattack environment, effects of partial-body lead shielding on, 21:34658 (USNRDL-TR-67-39)
effectiveness of 3'nucleotide as, for use during therapy, 21:34735
effectiveness of adrenochrome derivative as, for use during therapy, 21:34723
effectiveness of AET-related, 25:49216
effectiveness of amino thiol-type, on bacteria during space flight, 22:28721
effectiveness of antimetabolites as, in rats, 23:31820
effectiveness of bacterial polysaccharide as, in γ-irradiated mice, 21:4828
effectiveness of biological and chemical, for acute and chronic irradiation of animals during space flight, 25:16214(T) (JPRS-52121, pp 15-20)
effectiveness of C_{111}HF in mice, 25:52117
effectiveness of injected, in mice given whole-body x-irradiation, 21:10997
effectiveness of Lyoproper yeast preparation in man and mice, 24:34399
effectiveness of parenteral chemicals as, on orally irradiated mice, 21:32717
effectiveness of soybean trypsin inhibitor as, on chicken embryos and young, γ, 22:51854
effectiveness of various, review, 21:1773 (SZS-5/66)
effectiveness of, against injuries from γ and x radiation, 21:11003 (CMN-Pub-2/65(Suppl.2))
effectiveness of, against whole-body irradiation of mammals, review of, 21:34699
effectiveness of, effects of state of catalase activity on, 21:10785
effectiveness of, effects of time interval from administration to irradiation on, in mice, 21:20285
effectiveness of, for bacteria, 21:20451
effects against fractionated x radiation in mice, 21:3417
effects in x-irradiated rats, 21:8852
effects of Ascotodin as, against uv injury to rabbit eyes, 21:1792
effects of chemical structure of, given prior to exposure, 25:24213
effects of cobalt, on regeneration of liver in whole-body x-irradiated rats with partial hepatectomy, 25:16355
effects of cysteinethiosulfonate as, in x-irradiated mice, 21:3431
effects of dithiocarbamates of aminothiophenes on mice, 25:16219
effects of ferrant, on regeneration of liver in whole-body x-irradiated rats with partial hepatectomy, 25:16355
effects of methylthioureas on macromolecules, 23:40715
effects of mixtures of, on survival of lethally x irradiated rats, 21:10930
effects of N- and S-containing polymers on survival of x-irradiated mice and rats, 25:42517
effects of N-(2-mercaptoethyl) glycine, on intestinal absorption of fats in x-irradiated rats, 21:4844
effects of nivolin on rats, 21:1784
effects of phytohemagglutinin, on cellular damage in x-irradiated E. coli, 21:6732
effects of pyrexal in x-irradiated guinea pigs, mice, and rats, 21:3430
effects of S-adchnon, on human hematology following radiotherapy of tumors, 24:34392
effects of thiophosphate, on human patients during therapy, 25:24273 (UCSF-10-P-2-123)
effects of topically applied, in mice, 21:14689
effects of vitamin K3, on antibody formation in x-irradiated rats, 21:4829
effects of, on frequency of chromosome aberrations in mice and rats, γ, proton and x, 22:47554
effects of, on frequency of radioinduced chromosome changes, 21:1785
effects of, on γ - and x-irradiated mice, 22:45629
effects of, on luminescence of irradiated serum albumin solution, 21:10752
effects of, on mitotic activity of cells, 21:1781
effects of, on radiosensitivity of plant cells, 21:1837(R) (NYO-2587-21)
effects of, on yield of potassium ions from kidneys and spleen of γ-irradiated mice, 21:12773
effects of, review of mechanisms of, 21:12910
effects on alkaline phosphatase activity in small intestine of x-irradiated rats,, 25:29645
effects on animals, conference on, 25:42512
effects on animals, review of, 22:51829
effects on cats and mice, testing of mechanisms for pharmacological, 24:23236(R) (NYO-2192-13)
effects on cellular radiosensitivity, 21:22516
effects on cellular radiosensitivity, mechanisms of sulfur-containing, 25:4538
effects on content of biogenic substances in animals, biochemistry of, 25:32440
effects on cultured mammalian cells, review of, 24:12221
effects on electromagnetic- and ionizing-radiosensitivity of tissues of man, 22:23673
effects on electron-irradiated mucous membranes of mouth of man, prophylactic and therapeutic, 21:32696
effects on endogenous spleen colony formation and intestinal weight in mice in comparison with effects of hypoxia, 23:50615
effects on free radicals, relation of inhibitory, to anticancer properties, 21:18080
effects on γ-radioinduced inactivation of lysozyme, 23:29569(R) (COO-1223-14)
effects on hematopoietic system and intestinal tract of dogs and rats, 22:25896
effects on high-pressure oxygen-induced convulsions and death in mice, 23:29569(R) (COO-1223-14)
effects on hypothyroidism in fish, 21:22483
effects on incidence of cancer and survival of mice, effects of mixtures of, 25:6710(R) (EUR-4492)
effects on irradiated animals, mechanisms of sulfur containing, 22:51485
effects on luminescence of uv-irradiated albumin solutions, 22:28298
effects on mammals, mechanisms for, 21:22599
effects on mammals, mechanisms for organic sulfur-containing, 23:20262 (BNL-50058, pp 241-62)
effects on man during radium therapy for tumors, 24:48574
effects on metabolic processes, mechanism of, 21:16383
effects on organisms, review of efficiency of combinations of, review of, 25:4609
effects on partially irradiated mice, mechanisms of, 21:22622
effects on plasma glutamic-oxalacetic transaminase in mice, 23:20399
effects on radiosensitivity of tumor cells, review of, 21:20272
effects on reduced NAD dehydrogenase activity in rat liver mitochondria, evaluation of, 25:24214
effects on release of inorganic phosphate from γ-irradiated yeast, 21:20442
effects on response of mammals to acute whole-body radiation, review of, 22:51801
effects on sensitivity of animals with radiation sickness to anesthetics, 23:31915
effects on space crews, 25:21743
effects on survival of β- and x-irradiated guinea pigs, mice, and rats, combined effects of cyclophosphamide and, 25:42518
effects on survival of Escherichia coli exposed to carbon-14, phosphorus-32, tritium β, uv or x radiation, 24:32278
effects on survival of γ-irradiated mice, 21:43449
effects on survival of mammals, review of, 23:8024
effects on survival of x-irradiated mice, 22:533
effects on uv- and x-radiosensitivity of Escherichia coli, 22:36412
effects on x radioinduced lesions of gastrointestinal tract of mice, 23:20299
effects on x-irradiated E. coli B cells, effects of anoxia on, 21:20284
effects on x-radiosensitivity of L cells, agmatine, 21:45840
effects on x-radiosensitivity on Chinese hamster cells, 25:11093 (BNL-50203, pp 97-116)
efficiency of 2-(2-methyl-3-hydroxy-5-phosphorylhydroxy-methyl-4-pyridyl)-tetrahydro-1,3-thiazine-4-carboxylic acid as, 23:141(P)
evaluation for protection of man against single or short-term sublethal radiation doses, 24:36767
evaluation for use in exterior radiation exposures, 25:35166

evaluation of azaid, in larvae of x-irradiated Rhacophorus arboreus, 21:36644
evaluation of Bunte's salts for, by comparison with aminothiols, 21:6552
evaluation of cystaphos, in mice, 21:36652
evaluation of effectiveness of, 23:31828
evaluation of eight single and combined, for local protection of skin, 25:24212
evaluation of macromolecular, 21:26530
evaluation of pharmacological effects of, on animals, 21: 22480(R) (NYO-2192-9)
evaluation of radical inhibitors as, for DNA, 21:36515
evaluation of unsaturated fats as, in x-irradiated rats, 21: 12899
evaluation of, during iodine-131 therapy, 21:12941
evaluation of, factors affecting, 21:20242
evaluation of, for use against proton-induced injuries in mice, 21:10999
evaluation of, in dogs during space flight, 21:34744(T) (N-67-15700)
evaluation of, in relation to toxicity, 24:39522
evaluation of, use of radioinduced loss of body weight in mice for, 22:8586
evaluation using biological standards of comparison, 23: 16224 (NIRS-7, pp 21-35)
evaluation using dose—reaction factor, method for, 25: 21744
hydrazidines, effectiveness in rats, 25:39879(T) (JPRS-53218, pp 13-19)
hydroxyphenylethanolamines, role of catecholamine depots and α-adrenoreceptors in mechanism of, 25: 29546
irradian, pharmacology in rats, 23:2880
irradian, radioprotective effects of, on rats, x, 23:2880
isolation of marinamycin-like, from ascite tumor cells, 21:22526
MEA derivative, preparation of, chemical, 22:525
mechanism for protective effects of, 21:18076
mechanism of action of, against development of radiation sickness, 21:4821
mechanisms of action of, for cystamine, 21:3416 (UCRL-16806, pp 39-41)
mechanisms of SH-containing, 25:19021
MET, radioprotective effects of, on morphology of gonads and survival of rats, ionizing lethal, 22:31157
metabolism in tumor-bearing rodents, tracer study of, 21:20241
metabolism of sulfur-35 labeled, by cultured mammalian cells, effects of content, pH, and temperature on, 22: 40771
methods for evaluation of, 21:24532
methods for study of, criteria for evaluation of, 22: 33944
Mumie, effects on DNA and RNA on bone marrow and spleen of rats, 25:16231
Mumie, effects on regeneration of bone fractures in γ-irradiated rabbits, 25:52111
O-alkyloximinomercaptans, preparation and effectiveness of, 25:42531
organoselenium, protective effects on ATP and urease in x-irradiated mice, 22:25904
placental preparations, effects of combined bee's milk and, on rats exposed to x radiation, 25:46891
polarographic behavior of sulfhydryl-containing, 23:6089
preparation of amino acid derivatives for use as, 21: 34282
preparation of derivatives of p-aminothiophenones as potential, 24:13823
preparation of imidocarbamoyl and thiocarbamoyl disulfides for use as, 23:167
preparation of N-(o-aminophenyl)succinimide and N-(o-aminophenyl)thiosuccinimide for use as, 25:31893
preparation of N-ethyl-AET derivatives, 21:24067 (NIRS-5, pp 10-16)
preparation of potential, 21:38954
preparation of sulfur derivatives of 2,4-dimethoxy-6-aminopyrimidine and 2-aminopyrimidine as potential, 25:32445
properties and structure of alkyl-substituted phosphorothioates, 21:10348
properties of cyclic imino dithioester hydrohalides for use as, 21:26536
properties of DNA as, in Escherichia coli, 21:22399
properties of, in large animals, 21:24400(R) (AD-642313)
protective effects in mammals, mechanism for, 21:30863
radiation effects on action of, in cultures of embryonic chick intestine, x, 21:12939
radiation effects on distribution of, in liver and spleen cells of rats, 21:4820
radiolysis of, mechanism and yields in, 21:25873(R) (NYO-3383-06)
reaction mechanisms for, in bacterial and mammalian cells, review of, 22:36419
reaction mechanisms of, bibliography on biochemical, 22:25902
reaction mechanisms of, in vitro studies on, 21:10999
reactions with macromolecules, 24:12120
research and testing, 23:24693
research on effects and mechanisms of, review of, 23: 41345 (AD-688501)
review of chemical classes of, used on mammals, 23: 26824
review of effectiveness for local areas, x, 23:41354
review of mechanisms of protective action for, in mammals, 23:26824
review of preparation and use of, 24:9873
review of results of animal studies of, 23:50638
review of use of sulfur-containing, 24:12119
screening of, procedure for in vitro, 24:44607
serotonin creatinin sulfate, effects on animal tissues, mechanism of, 25:32442
Shir-Khecht, effects on survival of γ-irradiated rats, 22: 49376 (CEA-R-3412)
statolon, effects of, on mice, synergistic effects of auxin analogs on γ, 22:51671 (AD-644984)
synthesis of asymmetric disulfides for use as, 22:49425
testing in Drosophila, 21:34690
testing in rats, method for, 24:34395
testing in x-irradiated rats, 21:24491
testing of organic selenium, in gamma irradiated rats, 25:16233
testing of, development of biological model for, 23: 10027
thiol and thiol derivative, inhibition of catalase and lactate dehydrogenase by, 23:26823
Thiola, effectiveness of, for prophylaxis of leukopenia and radiation sickness in man, 22:38385
toxicity in animals, effects of detoxifying drugs on, 23: 50638
toxicity of, effects of, on use in mammals, 21:16377(T) (JPRS-38272, pp 462-3)
use by astronauts during space flight, evaluation of requirements for, 21:16376(T) (JPRS-38272, pp 435-6)
use during radiotherapy, 21:36671
use for therapy of experimental tumors of mice, x, 22: 25878
use for treatment of radiation sickness, rationale for, 24: 2723
use in combination with bone marrow transplants for treatment of radiation sickness, 21:405
use in space flight, 23:4961
use in tumor radiotherapy, 21:24500
use of bee venom as, against lethal x radiation in mice, 21:18075 (USNRDL-TR-67-4)
use of Mumie, for treatment of γ radiation sickness in rats, 22:51850
use of, for treatment of radiation injuries, review on, 21: 10982
use of, in space flight, review of, 21:12855
vitamedin, protection against radiation sickness following therapy of head and neck tumors, 22:43381
Wobe-Mugos, effects on survival of γ-irradiated mice, 22:38415

RADIOSENSITIVITY
see also Photosensitivity
analysis of genetic constitution for, to uv and x rays in E. coli, 21:4782
analysis of genetic control of γ, in Drosophila, 21:4787
analysis of yeast mutant, uv, 21:20124
Bacillus cereus, effects of adenosine, alanine, and heat treatment on, 21:18195
bacteria, comparison of species differences in, 21:18198
barley and maize seed, effects of genetic and physiological factors on γ and neutron, 21:3398
bibliography and review of, of gametes, 21:32758
bibliography on cell, in relation to chromosome volume, 22:10854
bibliography on role of sulfhydryl groups in natural, 22: 19372
biochemical, of lymphoid tumor, 21:17970
book: Conference on Radiobiology and Radiotherapy, 21:36682
book: Current Topics in Radiation Research, Vol. 5, 23: 38775
book: Frontiers of Radiation Therapy and Oncology, 23: 41415
book: Oxidation Equilibrium and the Radiosensitivity of Organisms, 25:42528
book: Problems of Tissue Radiosensitivity, 24:34695
book: Radiation Biophysics and Plant Radiobiology, 23: 50356
book: Recovery and Radioresistance of the Cell, 23: 26971
book: The Cell Nucleus Metabolism and Radiosensitivity, 21:32793
book: The Problem of Damage to the Hemopoietic Tissue During Acute Radiation Pathology, 23:50870
cell, effects of chemical agents on, 21:22516
cellular, review of, 21:28425
changes in, of rat cell cultures, effects of polyoma infection on, 21:14741
changes in, of Saccharomyces cerevisiae, effects of dose fractionation and delayed plating on kinetics of, 21: 14769
characterization of γ, in gymnosperm species, relation of interphase chromosome volume to, 21:22782
chromosomes, analysis of differences in paternal and maternal, 21:22403
Clostridium botulinum spore, effects of liquid and solidly frozen culture media on, 21:20452
comparison of γ, in fast- and late-ripening varieties of cotton, 21:22799
comparison of Quercus coccinea and Q. ilicifolia, γ, 21: 24660
comparison of, of soluble muscle proteins of rabbits and rats, 21:4765
comparisons for salivary gland neoplasms, 21:20276
conference on applied, Leipzig, Oct. 11 to 14, 1966, 21: 40935 (CONF-661044)
conference on comparative cellular and species, 24: 12274
conference on genetic control of, 25:52023
conference on genetics of, 21:22377 (STI/PUB-130)
control of Escherichia coli, enzymic and genetic, 21: 22397
control of fast-neutron and γ, in plant seed, 21:32612
correlation with thermoluminescence in plant seeds, x, 24:9778
cotton seed, effects of moisture on, 21:30925
dependence on content of free radical scavengers in plant tissues, 23:43911
determination for Harding—Passey melanoma in mice, 21:24569
determination in agriculturally-important plants, 21: 24674
determination in mice, use of polarography for, 23: 10066
determination of chromosome, in different strains of mice, x, 21:24545(R) (EUR-3263.e)
determination of γ, of gymnosperms, correlation with nuclear and interphase chromosome volume, 21:22774 (NP-16636)
determination of γ, of lizards, 21:13010
determination of lens and retina, 21:16388
determination of mean lethal dose-time curves for, of several marine species to cobalt-60 irradiation, 21: 12999
determination of neutron, of plants, 21:22783
determination of peroxidase, during formation of enzyme-substrate complex with hydrogen peroxide, 21:34604
determination of pine forest, γ, 21:36747 (ORO-3299-6)
determination of thyroid, in man, comparison of, to rats, 21:11036
determination of uv, of different species, 21:26694
determination of uv, of prophage induction in Escherichia coli, 21:18194
determination of x, of Anthonomus grandis boll weevils, 21:12971
determination of x, of asynchronous and synchronous populations of diploid yeast cells, 21:13085
determination of x, of molecular property of DNA for forming genetically specific hybrids with messenger RNA, 21:16278
determination of x, of transplanted mammary adenocarcinomas in mice after serial exposure, 21: 18159
determination of, in boll weevil eggs, pupae, and adults exposed to cobalt-60, 21:6617
determination of, in peas, from frequency of chromosome rearrangements, 21:28422
determination of, in rats, correlation with oxygen consumption during stress, 21:11034
determination of, of bacteriophage DNA in aqueous solutions, mechanisms for x, 21:24332
determination of, of bone marrow cells by use of cytotoxic dyes, 21:10977
determination of, of cervical carcinomas, value of radiation response prognostication for, 21:10934
determination of, of male and female gametes of Laminaria (seaweed) to γ rays, 21:9032
determination of, of metamorphic stages of moths, 21: 6639
determination of, of mutants of Azotobacter chroococcum, 21:6731
determination of, of neural retina in two-day-old rats, 21:6626
determination of, of phages of Escherichia coli and Serratia marcescens under anoxic and normal conditions, 21:11146
determination of, of temporal bone, 21:14738
determination of, of Tribolium confusum exposed during various stages of development, 21:11051
determination of, of various parts of eye, 21:12972
development of decreased, in Sesamum orientale, 21: 30923
development of, in cotton plants, decrease of photosynthesis following, 21:9015
development of, in streptococci in various growth phases, 21:13071
differences between, of malignant melanomas, 21:26584
disparity of thyroid gland, discussion and review of literature on, 21:18165
diurnal variation in cellular, 24:34120
DNA, effects of protein on, 21:22639
dose-response curve for, of DNA-RNA isologic hybrid formation, 21:22400
E. coli K12(lambda), to uv following thymine starvation in presence of 5-bromouracil, 21:440
effects of 5-bromodeoxyuridine on x, of murine mast cell tumors, 21:11074
effects of 5-bromouracil on, of Escherichia coli exposed to uv or x radiation, mechanisms for, 21:20288
effects of 5-hydroxytryptophan on mouse x, 21:20300
effects of biological stress on x, of rats, 21:16443(T) (JPRS-38272, pp 158-9)
effects of body temperature on x, of rabbits, 21:4878
effects of borane compounds on, of mice and rats, γ and fast neutrons, 21:34785
effects of cell generation cycle on, of cultured Chinese hamster cells, 21:6634
effects of chemical agents on, of tumor cells, review of, 21:20272
effects of conditioning doses of x rays on mouse bone marrow, mechanism for, 21:20403
effects of conditioning x-irradiation on, of mice, 21:6630
effects of culture media on, of Micrococcus radiodurans, 21:20444
effects of cyclophosphamide on laser, of implanted melanomas in mice, 21:16422
effects of developmental stage on, to induction of somatic mutations in moth Ephestia kuehniella, 21: 10844
effects of divided dose on, of swine, 21:34759
effects of DNA content in cell nuclei on fast neutron and x, of wheat, 21:4788
effects of DNA content on x, of Serratia bacteriophage, 21:16535
effects of DNAase on DNA, x, 21:34595
effects of dose fractionation on, of mice, x, 21:8972
effects of environmental factors on x, of seed of Scots pine, 21:11121
effects of environmental gas on, of biological systems, 21:12872
effects of fatty acid content on, of plants, 21:14604
effects of genetics on x, of pollen, 21:20439
effects of growth-inhibiting drugs on x, of pea roots, 21: 16528
effects of heat and relative humidity on, of grass seeds, 21:13069
effects of high pressure oxygen on, of Ehrlich's tumor, in mice, 21:14583
effects of hydroxyurea on x, of hamster cells, 21:18079
effects of hyperbaric oxygen on tumor, review of, 21: 1790
effects of hypoxia on, in mice, 21:10772
effects of hypoxia on, of rats, 21:16445(T) (JPRS-38272, pp 246-7)
effects of hypoxia on, of spleen colony-forming cells in whole-body x-irradiated mice, 21:11000 (AD-644117)

effects of infections on, in mice, 21:16461
effects of ligature of the external carotid arteries on, of normal tissues, 21:32748
effects of malignancy on, of melanomas, 21:4864
effects of mechanical stress on uv, of outer epidermis of Allium cepa, 21:11124
effects of methyl hydrazine on, of Escherichia coli, 21:22589
effects of natural, on DNA synthesis in uv-irradiated E. coli, 21:6737
effects of oxygen abundance on, of tumor cells, review of, 21:20280
effects of oxygen on, of animal tissues, 21:10999
effects of oxygen on, of biological systems, reaction mechanisms for, 21:20331(T) (NP-tr-1481)
effects of oxygen on, of HeLa cells to gamma radiation, 21:8995
effects of oxygen on, of mouse spinal cord to x radiation, 21:6706
effects of oxygen on, reaction mechanisms for, 21:16450(T) (NP-tr-1483)
effects of particle aggregation on, of vaccinia virus to uv irradiation, 21:12756
effects of periodate on Escherichia coli uv, 21:20243
effects of photochemical reactions on uv, in seedlings of Lactuca and Triticum, 21:20436
effects of physical agents on, of tumor cells, review of, 21:20272
effects of physical fitness on x, of rats, 21:16443(T) (JPRS-38272, pp 158-9)
effects of physiological state on, of biological systems, 21:12872
effects of ploidy on microorganism, to uv and x, 21:443
effects of ploidy on, of yeast cells, 21:9024
effects of preparation methods for leukocyte lysosomes on γ, 21:20400
effects of pyrexal on x, of guinea pigs, mice, and rats, 21:3430
effects of radioprotective compounds on mouse, to fractionated x radiation, 21:3417
effects of radioprotective compounds on, of bacteria, 21:20451
effects of ripening time on γ, of Gossypium hirsutum, 21:8692
effects of RNA on, of ascites tumors in mice, 21:20309
effects of soil fertility on, of wheat seed to fast neutrons, 21:4882
effects of species on plant, 21:1842
effects of state of catalase activity on, 21:10785
effects of sulfoguanidine and sulfamethoxypyridazine on, of mice, 21:6524
effects of sympathectomy on rat, abdominal or cervical, 21:16445(T) (JPRS-38272, pp 246-7)
effects of synchronization and dose fractionation on HeLa cell, 21:20397
effects of temperature of culture media on x, of barley roots, 21:13065
effects of temperature on γ, of metamorphic stages of fruit fly Strumeta tryona, 21:20384
effects of temperature on, of biological systems, 21:12872
effects of temperature on, of human skin, 21:4880
effects of temperature on, of microorganisms to γ radiation, determination of, 21:16539
effects of thymidine synchronization on cell, to x rays, 21:20153
effects of thymine on, of Escherichia coli exposed to uv or x radiation, mechanisms for, 21:20288
effects of thymineless incubation on, of Escherichia coli, 21:6734
effects of thymineless incubation on, of Escherichia coli, 21:6734
effects of vitamin K3 on, of redox enzymes, 21:4841
effects of water content on x, of seeds of Vicia faba, 21:20085
effects of water soaking on, of varieties of winter wheat to x radiation, 21:3451
effects of, of E. coli on stability of uv-irradiated DNA, 21:6729
effects of, of female hamsters on progeny, 21:4877
effects on continuous γ-exposure on, of mononuclear leukocytes in mice, 21:8917 (USNRDL-TR-1085)
effects on frequency of uv-radioinduced mutations in yeast, 23:6418
effects on HMB binding in bacteria, 23:22446
effects on inhibition of growth and respiration in uv-irradiated Escherichia coli strains, 24:928
effects on loss of photoreversibility of uv-radioinduced lethal injuries and mutation in Escherichia coli, 24:2628
effects on nitrous acid sensitivity of Aspergillus mutant, uv, 21:34826
effects on radiotherapy of tumors, 21:45750
effects on sensitivity of Escherichia coli to aqueous electric arcs, 23:50947
effects on survival of Escherichia coli exposed to carbon-14, phosphorus-32, tritium β, uv or x radiation, 24:32278
effects on yield of mutations in uv-irradiated Aspergillus nidulans after liquid holding, 24:2629
enhancement by fermentation inhibitors in nervous system of dogs, x, 21:32762
enhancement by oxygen in Chlamydomonas mutants, γ, 21:41516
enhancement in E. coli, effects of growth in glucose-enriched culture media on γ and x, 21:26504
enhancement in mammalian tissues by free semiquinoid radicals, 22:47570
enhancement in mice by pigmented species of Pseudomonas, 21:22742
enhancement of tumor, by hydrogen peroxide, x, 21:41436
environment effects on, of two varieties of barley, 21:26672
estimates of, from split-dose experiments, 21:3403 (RM-5048-TAB)
estimation for human organs and tissues, 25:11090
evaluation following 5-bromo-2'-deoxyuridine use on Ehrlich carcinoma and Yoshida sarcoma in mice, 21:32692
evaluation of cervical carcinoma, review of clinical and experimental data on methods for, 21:34708
evaluation of factors affecting, of tumor cells, 21:12976
evaluation of x, of drug-resistant mouse leukemia cells, 21:18127
evaluation of, of human liver to x rays, 21:11108
evaluation of, of mitochondria isolated from cherries and pears, 21:13061
genetic basis for Escherichia coli mutant, x, 23:45689 (ANL-7535, pp 1-3)
genetic mechanisms for, of mice, 24:34713
HeLa cell, after high-dose x irradiation, 21:20078
HeLa cells, effects of fluorodeoxyuridine, hydroxyurea, and cycloheximide on, 21:6560
human skin, to uv radiation, review of, 21:14757
hypothalamus, to bremsstrahlung in radiotherapy of cerebral tumors, 21:20337
inactivation of bacteriophage by uv, role of thymine dimer formation in, 21:26382
inhibition in cervical cancer cells, effects of chromosome ploidy on, 21:28555
inhibition in E. coli, effects of strain difference on tritium, 21:20025(R) (COO-1603-1)
inhibition in Ehrlich ascites tumors, effects of serial irradiation on, 21:28663
insect, species differences in, 21:18178
liver, determination of, by scintillation scanning, 21:20354
lymphocyte, in mice, effects of, on cell survival, 23:22423
lymphocyte, to x radiation, comparison of leukemic and nonleukemic, 21:14732
malignant bone tumor, variation in, 21:16390
malignant thymoma, to x irradiation, 21:20244
measurement in flour beetles, γ, 21:28585(R) (BNWL-247)
measurement in mice in relation to local tissue oxygen tension x, 23:22347
measurement of electron microscope autographic, to tritium and sulfur-35 radiations, 21:28561
measurement of malignant melanoma, in human skin, 21:32682
mechanism for, of biological materials, 21:10724(R) (NP-16209)
mechanism in living organisms, 21:34796
mechanisms for radioprotective drug effects on, review of, 21:12910
mechanisms in cells, review of, 24:34541
mechanisms of cellular and molecular, ionizing, 25:4535
method for assessing x, of cells of cervical carcinoma, 21:11056
method for determining, of cervical cancer cells using luminescent microscopy, 21:10987
mitotic phase dependence of cell, 21:26398
model for interpretation of mammalian DNA, during synthesis, uv, 21:36494
models to explain variations in, 21:28549
modification in spores of Penicillium atrovenetum, effects of stage of germination on x, 21:34837
modification in tomato seeds, effects of heat treatments on x, 21:22786
modification of, biological and chemical factors in, 21:30863
morphological effects of x, of metabolic exchange processes in bipolar cells of rabbit retina, 21:20409
mouse and rat x, varietal differences correlated with erythrocyte survival times in, 21:3442
mutation for Neurospora crassa, uv, 21:45603
mutations affecting uv-, in yeast, 23:6417
mutations for uv and x, in Saccharomyces cerevisiae, 24:4602
mutations in Escherichia coli with unusual, 21:8758 (ORNL-3999, pp 79-82)
mutations responsible for, in Escherichia coli B/sub s-1/, 21:18027
mutations with increased, in fungi, 21:22395
nucleic acid, to uv, review of, 21:12771
of immune reactions in mammals infected with anthrax or tularemia, 21:428
of nucleoprotein metabolism in cells of nervous system, 21:6438
of plants of different species, 21:437
of young fish and fish embryos to carbon-14, 21:3447
olfactory bulb, in rats, effects of air, oxygen, argon and nitrogen perfusion on, 21:6631
oxygen effects on, of animal tissues, 21:24561
oxygen effects on, of microorganisms, 21:45850
oxygen effects on, of neoplasms, hyperbaric, 21:22536
oxygen role in, review of mechanisms for, 22:15037
plant, effect of species on γ, 22:8507
population, of mice, use of physiological state of individuals for, 23:10067
radiation effects on, of animals, review of whole-body, 22:51955
rat liver mitochondria, effects of iodoacetamide with x irradiation, 21:4835
relation of animal physiology to, 22:23657
relation of conditions of cultivation to, of cotton and grass, 21:34814
relation of uv and x, to defective genetic recombination in E. coli mutants, 21:4783
relation of, to equivalent residual dose, 21:3403 (RM-5048-TAB)
relation to cell volume in Escherichia coli, 23:45967 (ANL-7535, pp 5-6)
relation to chromosome and nuclear volume, 24:32195
relation to duration of phases of mitotic cycle in maize root meristem, 21:6724
relationship of oxygen consumption to, of mice, 21:8930
research by Strangeways Research Laboratory, Great Britain, in 1968, 24:2705
research on plant, 24:21321(R) (RLO-353-42)
research on, panel discussion of intestinal, 22:49554
review on neural tissue, 21:22754
role of antioxidants in, effects of synthetic free radical inhibitors on, 24:34407
sea urchin egg, effects of antibiotics on, 21:14743
sheep, effects of previous irradiation at low dose rates on, 21:14658
shrubs, effects of ecological hardiness on thermal and γ, 21:18184
similarity in, of different types of mammalian cells, 21:6461
spermatogonia of silkworm larvae, to γ radiation, 21:20131
spermatogonia, in Drosophila following acute x radiation doses, 21:18124
temperature effects on, of uv-irradiated yeasts, freezing, 23:6611
test for uterine cancer using tritium-labeled thymidine, 24:32120
testing in human cervical carcinomas, 24:27710
testing in relation to therapy of cervical cancer in man, evaluation of, 24:4666
testing of physiological, of rat nervous system, 21:6688
tests for, in radiotherapy for uterine cancer, performance of, 21:16396
theory relating filament formation and phage induction to uv, of E. coli, 21:26691
thymocyte, effects of cysteamine, oxygen abundance, and temperature on, 21:22629
trypsin molecules, effects of absorption at air-glass or air-quartz interfaces on uv, 21:20083
use of mathematical model for expressing, of tumor cells, 21:34756
use of pulse radiolysis in, 22:40126
variation among individual rats in, 21:6537
variation among species of Graminaceae, 21:28415(R) (TID-23824)
variation in granulocyte and lymphocyte, in rats, 21:32706
variation in Micrococcus radiodurans, effects of physiological age on uv and x, 21:32803 (NYO-3319-15)
variation in, of plants, correlation with enzyme activity, 21:6719
variations in malignant tumors of man, effects of Ametohepazon on, 22:23582
variations in mice of same strain, role of H-2 gene locus on, 24:6116
variations in microorganism, effects of environment on, 21:45851
variations in mosquitoes, effects of, on survival, 23:2912
variations in organisms following primary exposure, 22:8594 (CONF-670305-, pp 76-80)
wheat seed, effects of variety on, 21:14766

RADIOSENSITIZERS
see also Butyraldehyde, Dihydroxy-
see also Carbamic Acid, N-Phenyldithio-
see also Cyclohexanesulfamic Acid
see also 1,2-Dicarbadodecaborane(12)-1-acetic Acid
see also 1,2-Dicarbadodecaborane(12)-1-carboxylic Acid, Methyl-
see also Glyoxal, Phenyl-
see also Hypericin
see also Indole-2,3-dione
see also Ninhydrin
see also Oxamic Acid
see also Psoralen, 5,9-Dihydroxy-
see also Quinethazone
see also Rifamycin
see also Tachysterol, Dihydro-
Ametohepazon, effects on radiosensitivity of malignant tumors of man, 22:23582
book: Radiation Protection and Sensitization, 25:4534
effectiveness of, used with γ radiotherapy for treatment of mesothelioma, 21:24494
effects of, bound or incorporated into deoxyribonucleic acid, on repair of radiation injuries in bacteria, 21:13073 (UCRL-16898, pp 97-116)
effects on biological materials, mechanism for, 24:39521
effects on L cells in culture, 21:24635
effects on malignancies, mechanisms for, 23:26826
effects on normal and tumor cells in radiotherapy, 24:39520
effects on oxidation-reduction reactions in irradiated skin of mice, in relation to radiosensitivity, 24:34412
effects on rabbit erythrocytes x irradiated in vitro, 21:22729
effects on Serratia marcescens, method for detection of x, 23:33915
effects on Serratia marcescens, model for electron-affinic organic, 23:45970
effects on tumor cells, review of, 21:20272
effects on x-radiosensitivity on Chinese hamster cells, 25:11093 (BNL-50203, pp 97-116)
electron transfer in aqueous and alcoholic solutions of, 21:41348
evaluation of actinomycin as, in human cancer patients, 21:22474 (ARCH-26, pp 115-18)
evaluation of chemical compounds for use as, 21:20289
evaluation of colchicine as, in human cancer patients, 21:22475 (ACRH-26, pp 119-21)
evaluation of thiol binding drugs as, in mice, 21:20371
methods for study of, criteria for evaluation of, 22:33944
use of chemical, for radiotherapy, 21:22645

RADIOSONDE
design and operation for measurement of radioactivity in atmosphere, 24:14283
design of circuit of RK-1 cosmic-ray, 21:24202
performance for measuring high-altitude radioactivity near Argonne site, 25:48618 (ANL-7760(Pt.3), pp 249-50)

RADIOSTERILIZATION
activities of USAEC in insect, 24:32298
application of, to fishery products, 21:9035 (CONF-661017)
bibliography on microwave, of foods, 22:49672
closed loop conveyor irradiation facility design for, of surgical supplies, 21:41088(P)

conference on lepidopterous population control by, 25:47070 (STI/PUB-281)
conference on medical products, 22:52064 (STI/PUB-157)
conference on methods for biological tissues, bacteria, and medical supplies, γ, 25:11327 (STI/PUB-247)
criteria for medical supplies and pharmaceuticals, 23:48307
design of industrial γ facility for surgical equipment, 21:19855
development for industrial uses, 23:24260
development of techniques for γ-, of screwworm flies, 21:6746
developments in Member States of Eastern Bloc, review of, 22:27973
dose for, of disposable dry plastic equipment, determination of, 21:20456 (RISO-140)
dose measurement for Salmonella typhi, γ, 21:24690
dose required for milk, γ, 21:28392
dosimeter for use in high dose level, 25:18803(P)
economic aspects for polyethylenes, medical supplies, teflon, and textiles, 24:6159
economic aspects of, for grain, review of, 21:24703
economic aspects of, of meats and poultry, 21:26714
economics for control of insects infesting stored grain, 21:30940 (CONF-670202, pp 39-48)
effectiveness for industrial supplies, electron, γ, and uv, 22:52113
effectiveness of, for control of pathogenic organisms on food, 21:26725
effects of γ, on amino acid and vitamin contents of haddock fillets, 21:14781
effects of γ, on organoleptic properties of skinless haddock fillets, 21:14780
effects of uv, on maple sap, 21:16558
effects of x, on fine structure of lutein cells in rat ovaries, 21:13040
effects of, on Clostridium botulinum-inoculated canned hams, 21:20462
effects of, on control of grain mite populations, 21:18201
effects of, on lipid oxidation in cooked meats, 21:11163
effects of, on microbial flora of crabs and oysters, 21:6740 (RLO-1950-1)
effects on Anopheles pharoensis mosquito populations, γ, 21:32818
effects on bacteria affecting storage life of seafood, 21:26727
effects on bacteria, review of β and γ, 23:38897
effects on bone tissue transplants reactions in rabbits following γ, 23:959
effects on calcium cyanamide conversion processes in soil, 21:22834
effects on enteroviruses, mutagenic, 21:39534(R) (TID-23855)
effects on fish following storage in ice, 21:20457(R) (RLO-1730-5)
effects on growth of microorganisms in chicken, 21:41524(R) (NYO-3733-2)
effects on growth of Salmonellae on eggs, 21:26716
effects on insect pests in stored rice, 21:20453 (AECD/RB-1)
effects on insects in comparison to chemical sterilization, α, 23:20455
effects on insects infesting stored grain, 21:26729
effects on insects, effects of, on storage life of grain, 21:26719
effects on insects, effects of, on storage life of grain and seeds, 21:26718
effects on mating behavior of screwworm fly, 21:24699
effects on molds affecting storage life of fruits, 21:26727
effects on molds affecting storage life of vegetables, 21:26727
effects on nutritive properties of rat diet, γ, 21:32813
effects on phosphatase activity in soils, 21:18013(R) (N-66-32122)
effects on physical properties of surgical sutures, γ, 23:41343
effects on physiology of tomatoes, γ, 21:24706
effects on reproduction of bacteria on cooked lobster meat, 21:41526
effects on reproductive potential of sweet potato weevil Cylas farmicarius elegantulus, 21:24695
effects on storage life of cheese, 21:26727
effects on storage life of citrus fruits, 21:26740
effects on storage life of eggs, effects of prior freezing on, 21:28705
effects on storage life of food marinades, γ, 21:26722
effects on storage life of fruits, 21:26746
effects on storage life of poultry, 21:28705
effects on storage life of tropical fruits, 21:26741
effects on storage life of tropical vegetables, 21:26741
effects on storage time of prefried heat-and-serve seafood products, 23:20458
effects on toxin production by Clostridium botulinum type E spore in fish, 21:24698
effects on wholesomeness of rice, 21:20453 (AECD/RB-1)
efficiency of, for Thaumetopoea pityocampa (pine pest), 21:18199
evaluation of, of drugs, 21:13092
facilities for disposable medical products, performance of commercial cobalt-60-source, 25:44491
facilities for disposable medical supplies in Denmark, development of commercial, 24:22906
facilities for drug, in Germany, 21:26707
facilities for medical supplies in UK, development of, 24:22902
facilities for medical supplies, development of commercial, 24:22904
facilities for medical supplies, development of commercial, 24:22905
facilities for medical supplies, in United Kingdom, 21:26708
facilities of medical supplies in Canada, development of, 24:22903
facility for insect-infested grain, in Turkey, design of cobalt-60, 21:16552
facility for medical products, design and operation of large commercial, 23:26419
facility for, of surgical sutures, design and construction of, 21:10516
feasibility for meats in relation to toxicity to man, 23:29931
food, review of, 21:1854
hazards of, of dogs' diet of green beans and fruit, evaluation of, 21:8952
in women, 21:8904
insect eradication by, review of, 25:29736
insects, basic principles of, 21:22720
medical supply, review of, 21:1854
method for cartilage transplants, efficiency of electron, 21:45525
method for mangold flies, 24:32317
method for spacecraft hardware, combined use of heat with γ, 23:41524(R) (TID-25154)
methods for fish, 23:41526
methods for hospital supplies, 21:41150 (NP-16994)
methods for insects, review of, 21:18178
methods for medical supplies in New Zealand, γ, 23:24782
methods for soils, comparison of γ, neutron, and x, 23:38906
packaging of seafoods treated by γ, evaluation of plastics for, 21:13090
panel proceedings on insect, 24:32288 (STI/PUB-224)
plant for, of packaged disposable plastic syringes, 21:9041
process for, of mangoes and sapodillas, efficiency of, 21:16555
radiation dose for γ, of insects infesting stored rice, 21:24692 (AECD/RB-5)
radiation sources for, industrial aspects of accelerator and radioisotope, 24:22907
radioactivity induced in food by, equation for determining electron, 21:14782
radium needle, dose requirements for, 21:18198
review of insect, 24:32294
review of medical use of, 24:9873
status of program on food, 21:446
technique for mosquitoes, x, 23:20459
technique for tsetse flies using multiple mating of females, 23:20457
techniques for, of food, evaluation of, 21:14779
techniques for, of food, evaluation of, 21:14779
use as quarantine control measure for insect pests, 21:26713
use for Anopheles pharoensis at different developmental stages, γ, 21:26705
use for control of bacteria in operating rooms, uv, 23:5064
use for control of helminthic parasites, bibliography on, 21:20323 (PEL-130)
use for control of insect pests, 21:32770
use for control of insect pests and Salmonellae on stored foods, 21:41523 (AECL-2873)
use for control of insect populations, review of, 24:32295
use for control of mosquitoes, review of, 24:32306
use for control of pathogenic viruses in carcasses of animals used as meat, 21:41523 (AECL-2873)
use for dialysis membranes for artificial kidneys, γ, 21:26706
use for drugs and medical supplies, review of, 21:34843
use for drugs, food, and surgical instruments, review of, 21:45851
use for eradicating insect populations, 21:22238(R) (NP-16547)
use for foods, review of, 21:24702
use for fumigation of papayas for fruit fly infestation, 21:26746
use for grain disinfestation, review of, 21:24703
use for medical supplies, 21:28710
use for medical utensils in Denmark, 21:20456 (RISO-140)
use for pharmaceuticals, review of, 21:22833
use for population control of coffee leaf miner, γ, 21:36746(R) (NYO-2043-152)
use for population control of Mediterranean fruit fly, γ, 21:36746(R) (NYO-2043-152)
use for processing damp harvested maize, 21:26717
use for surface treatment of ripened cheese, γ, 21:34849
use in agriculture and pharmacology, IAEA programs on, 22:6248
use in control of insect pests on stored food products, 21:32770
use in control of insect populations, review of, 21:34846
use in control of insect populations, review of, 21:34748
use in control of mosquitos, review of γ, 22:52110
use in controlling insect populations, sterile-male technique for, 21:26704
use in eradicating house flies, 21:28709
use of cobalt-60 source for, of medical supplies, 21:13089
use of γ radiation for, of oysters, 21:26686
use of γ, for controlling Salmonella infections in meat, 21:9038
use of, for controlling insect pests on cereals, 21:9042
use of, for food, review of, 21:4894
use of, for male and female mosquito Culex pipiens pipiens Linn, 21:13094
use of, in control of plant pests, review of, 21:4893
use of, of food in United Kingdom, 21:6743
use on bone to be transplanted, 21:26703
use to eradicate boll weevil, 21:6617
uses in industry, review of, 24:19174
RADIOTHERAPY
(Therapeutic use of radiations from external or internal sources)
see also Neutron Capture Therapy
see also Radioapplicators
ablation of pituitary by, with gold-198 or yttrium-90, injuries resulting from, 21:12906
accelerator use in, procedures for, 21:18095
accelerators for, electron and x-ray energy calibrations for betatron and linear, 22:43347 (ACRH-28, pp 111-25)
accident report on, with linear accelerator at Hammersmith, 21:6555
alteration of half-dose layer in short-focus x-ray, 21:8899
analysis of fast neutron-, neutron capture-, and neutron conversion, of tumors in mice, biochemical and biophysical, 23:2919(R) (ANL-7409)
apparatus design for minimum exposure of healthy tissues, 22:10821(P)
apparatus for, 21:3433
ascites tumor, effects of tumor bed on, 21:30846
beam focusing during, use of photographic films for cobalt-60 therapy unit, 21:14695
beam obliquity problems using 1,800-Ci cesium source, isodose curves for, 21:22466
beta source for, of pterygium, evaluation of results of strontium-90 use as, 21:22539
beta sources used in, characteristics of unwanted radiation from, 23:20257
betatron for electron, neutron dose measurements for 35-MeV Asklepitron, 22:51688
betatron for, description of Shimadzu 32-MeV, 22:53057
betatron for, design of 18- and 42-MeV, 23:3878
betatron for, dose distribution in 31-MeV, 22:24772
betatron performance in high energy deep tumor, 25:46930
betatrons for electron, neutron dose from 35-MeV, 22:51687
betatrons for, dose rate measurements from field homogeneity of Siemens 42-MeV, 23:49284
bibliography of Soviet literature on, 22:4637
bibliography on, 23:24678 (TID-3319)
bibliography on, 23:50609 (TID-3319(Suppl.1))
bibliography on, 24:32061 (TID-3319(Suppl.2))
bibliography on, 21:20313
bibliography on, 25:37836 (TID-3319(Suppl.3))
bibliography on cancer, 22:51672 (NP-16780(Vol.2))
bibliography on methods for, 24:4649 (NP-18069)
bibliography on tumor, 23:26820 (NP-16780(Vol.3))
bibliography on use of computers for planning radiation doses for, 24:32060 (STI/PUB-203)
blood diseases following, for spondylitis, 21:407 (NP-16353)
bone marrow transplants in, use of, 21:24514
book: Acute Radiation Injury in Man, 21:6604
book: Bases of Nuclear Medicine, 23:6606
book: Biological Basis of Radiation Therapy, 21:30861
book: Chemical and Biological Action of Radiations, 24:34574
book: Clinical Applications of Physics of Radiology and Nuclear Medicine, 24:9907
book: Clinical Nuclear Medicine, 24:46635
book: Clinical Radiation Pathology, Vol. 1, 23:8073
book: Clinical Radiation Pathology, Vol. 2, 23:8081
book: Conference on Radiobiology and Radiotherapy, 21:36682
book: Current Perspectives in Cancer Therapy, 23:16351
book: Current Topics in Radiation Research, 22:40878
book: Diagnosis and Therapy with Radioisotopes, 23:50610
book: Frontiers of Radiation Therapy and Oncology, 23:41415
book: Frontiers of Radiation Therapy and Oncology, Vol. 3, 24:29827
book: Fundamental Physics of Radiology, 23:38635
book: Interrelationship of Chemotherapeutic Agents and Radition Therapy in the Treatment of Cancer, 24:27643
book: Mechanisms Functioning in the Development of Radiobiological Effects, 25:21749
book: Medical Radiation Physics, 25:16275
book: Medical Radiology, 22:25929
book: Modern Trends in Radiotherapy, 21:39481
book: Nuclear Medicine-a Scandinavian Textbook, 22:45635
book: Physical and Technological Principles of Irradiation Schemes, 25:24282
book: Planning Guide for Radiologic Installations, 21:20312
book: Progress in Lymphology, 24:41925
book: Progress in Radiology, 22:38392
book: Radiation Medicine, 25:11091
book: Radiation Protection and Sensitization, 25:4534
book: Radiation Toxins: Their Nature and Role in the Biological Effect of High-Energy Radiation, 22:40944
book: Radioactive Nuclides in Medicine and Biology, 23:6502
book: Radioactivity in Medicine, 25:26790
book: Radiobiology of Human Cancer Radiotherapy, 23:4984
book: Radioisotopes for Internal Application in Diagnostics and Therapy, 22:28620
book: Radionuclide Applications in Neurology and Neurosurgery, 25:547
book: Radiotherapy of Malignant Tumors of the Urinary Bladder, 25:24284
book: Radium Dosage: The Manchester System, 22:45550
book: Radon Waters and Their Therapeutic Properties, 23:12179
book: Subsequent Effects from the Application of Radiation Therapy to Children, 24:9964
book: The Physics of Radiology, 24:46646
book: The Year Book of Radiology, 1969, 23:43815
book: Therapeutic Radiology, 21:20313
book: Ultrasoft X Rays, An Historical and Critical Review of the World Experience with Grenz Rays and Other X Rays of Long Wavelength, 23:16373
book: Works on Medical Radiography, 24:48605
book: X Rays and Radium in the Treatment of Diseases of the Skin, 21:30860
book: X-Rays, 25:35057
book: Year Book of Nuclear Medicine 1967, 23:4982

book: Year Book of Nuclear Medicine 1968, 23:4983
breast neoplasms, effects of, on production of human thyroid adenomas, 21:26655
bremsstrahlung, use of 30-MeV betatron for, 21:18091
bronchial cancer, use of 17 MeV betatron for, 21:16395
calculation of dose distribution during telecobalt, use of computers for, 23:4943
calculation of doses in, by computer methods, 21:6532
calibration of equipment for cobalt-60 rotational, 21:32676
carcinogenesis following, of nasopharyngeal lymphoid hyperplasia, occurrence of, 21:26498
carcinoma development following iodine-131, of thyroid, 21:24642
carotid artery rupture following, of larynx, 21:8951
case report on, of urinary bladder carcinoma using γ teletherapy, 21:4831
cell kinetics in, 22:31131
cervical cancer, method for, using tracking techniques, 21:16406
cervical carcinoma, during pregnancy, 21:16421
cervical carcinoma, late bladder fistula following, 21:16508
cervical neoplasm, effects on production of vaginal injuries, 21:26639
changes in lung tissue following, of breast in human beings, 21:20266
charged particle, of pituitary gland and tumors, 21:10967
charged particles in, review of status of heavy, 25:52152 (UCRL-20836)
clinical symptoms after γ or x, of intracranial lesions, 21:6598
cobalt-60 conformation, sources of mechanical errors in teletherapy used for unit, 21:22631
cobalt-60 teletherapy unit for, radiation protection features of, 21:28488
cobalt-60 unit for, collimator design for conformation teletherapy, 22:265
colchicine use in x, of neoplasms, 21:22475 (ACRH-26, pp 119-21)
collimation for use in rotational telecobalt, design of moving, 21:18098
comparison of gamma and fast neutron, 25:26879
complications following, of laryngeal carcinoma, effects of subsequent surgery on, 21:24461
complications to gamma, bladder telangiectasis, 21:409
computer programs for irradiation planning in betatron and cobalt, 25:2584
conference of Japan Radiological Society, 23:45799
conference on dosimetry for high-energy, 23:50491
conference on effects of dose and dose fractionation during, of human neoplasmas, 24:29827
conference on extracorporeal, abstracts from, 24:23284
conference on fast neutrons in, 25:52158
conference on research in, in Germany in 1969, 24:41935
conference on time relation to radiation dose in, 25:11218 (BNL-50203)
conference on use of high-energy electrons for, 25:29596
conference on uses of radioisotopes in nuclear, 25:13482 (CONF-661071)
conference on, Japanese Radiological Society, 23:35820
conference on, Radiation Research Society, 24:6029
conference on, Rome, September 22 to 28, 1965, 23:48165
conference on, use of radioisotopes in, 25:6721
container design for iodine-125, 22:4662(P)
cordal neoplasms following, in man, 21:26654
cutaneous radionecrosis following, dose and time effects on, 21:28560
damage induced by, of human retinoblastoma, 21:6595
damage to conjunctiva and cornea during, of eye tumors, 21:4868
data recording for, 24:29820 (DMRE-69-3, pp 147-52)
data recording for patient and personnel dose, 24:29745 (DMRE-69-3, pp 138-46)
data recording systems, use of computers for, 24:31997
design of collimator for use with cobalt-60 teletherapy unit for, 21:26473
design of facilities for, 21:16403
design of radium applicator for nasopharyngeal cancer, 21:406
design of unit for interstitial, using radioisotopes, 21:6600
design, testing, and installation of cesium-137 device for, 21:10916 (COO-245-6)
determination of optimal dose and technique in, for Hodgkins disease, 21:10909
determination of success of, for cervical carcinomas via incidence of mast cells in cervical tissue, 21:12986
development in Russia, 22:8568
development of clinical, historical review of contributions from radiobiological research in, 24:44579
development of complications from, of bladder cancer, x, 21:30853
development of dental caries following, of cervico-facial region, 21:26628
development of dosimeters for use during, in U.S.S.R., review of, 23:9932(T) (JPRS-44356, pp 76-85)
development of equipment for human, review of, 22:31123
development of implantable californium-252 neutron sources for use in, 21:39464
development of improvements in human cancer, review of prospects for, 23:878
development of intestinal injuries following, of cancer of endometrium, 21:28645
development of latent injuries following, of cutaneous hemangiomas during childhood, 21:28667
development of myxedema following, of thyroid using iodine radioisotopes, 21:11099
development of new techniques for cancer, at National Cancer Center, Tokyo, 23:48177
development of pneumonitis and fibrosis after, and surgery for breast carcinoma, 21:24637
development of projection-grid method for telecobalt-60 γ, 23:43838
development of slide-rule calculator for use of Ellis nominal standard dose in, 23:38593
development of uterine carcinosarcoma following γ, for cervical carcinoma, 21:11043
developments and research programs in USA, review of, 25:37851 (A/CONF.49/P-91)
developments in, 24:48627
developments in nuclear medicine for, conference on, 25:35155
developments in U.S.S.R. during past 70 years, review of, 23:9982(T) (JPRS-44356, pp 41-64)
developments in, review, 25:52132 (A/CONF.49/P-653)
directory of high-energy centers for, in 1970, worldwide, 25:8728 (STI/PUB-251)
dosage systems for, 21:8886
dose build-up effect in, effect of field size, source-skin distance, and radiation energy on, 21:12936
dose calculation in, use of computers in, 25:46843
dose calculations during whole-body γ or x, 22:8513 (CONF-670219)
dose calculations for gamma, when using lead grids, 25:21695
dose calculations for irregular field gamma and x, 25:21707
dose calculations for, maximum, 25:49199
dose calculations for, use of time-sharing computers for, 25:37810
dose calibration methods for γ and x, 25:52088
dose control in gamma, using lead screen filters, 25:21694
dose curve calculations for, use of computers in, 25:19000
dose curve inclination calculations for gamma, using wedge filters, 25:21696
dose curves for bremsstrahlung, gamma, proton, and high-energy x, comparison of, 25:52074
dose curves for, real-time computer system for calculation and display of, 25:58078
dose determination for gynecological, scintillation dosimeter for, 22:51264
dose determination for, of Hodgkin's disease, 21:10896
dose determinations for γ, 22:31145
dose determinations for x, computer based calculations for, 22:43458
dose distribution calculation for cobalt-60 γ, comparison of methods for, 25:44874
dose distribution calculations during, use of computers for, 24:32063
dose distribution calculations for cobalt-60, development of computer program for, 25:55220
dose distribution calculations for moving beam telecobalt, development of method for, 25:26758
dose distribution calculations for, use of computers in, 24:32062
dose distribution during electron, integral, 22:51682
dose distribution during pendulum γ, use of computers to calculate, 22:49349
dose distribution in cobalt-60, equation for, 21:14647
dose distribution in cobalt-60, method for calculating scattered, 25:35145
dose distribution in divided-field, of kidneys, effects of wedge filters on γ, 21:4817
dose distribution in gamma, effects of bone on, 25:24175
dose distribution in high-energy electron, problems of inhomogeneities in measuring, 25:29523
dose distribution in man as function of distance from tumor site, use of computers in planning for, 23:29512
dose distribution in moving beam, effects of input data on computerized, 24:44490
dose distribution in tissues during electron, gamma, and x, computer calculations of, 25:26761
dose distribution in, design of automatic scanning and printing densitometer for determination of, 21:28256
dose distribution in, effects of human anatomical irregularities on electron, 22:51578
dose distribution in, evaluation of pendulum translation method for cobalt-60 γ, 25:13447
dose distribution planning for megavolt, use of computers in, 25:58007
dose distributions in moving-field, Atlas of isodose charts for, 22:51674 (STI/PUB-120(Vol.3))
dose during whole-body radon baths, distribution of absorbed, 21:8896
dose during, use of leukocyte counts for measurement of, 21:45749
dose estimation for radium-224, 22:38217
dose evaluations in, for lens and retina, 21:16388
dose field in man during, standardization of isodose charts for expressing, 25:55211
dose field parameters for high energy bremsstrahlung, effects of electron component of beam on, 25:55209
dose fields in, use of analog computers for calculation of, 22:45533
dose for fractionated, formulation for calculation of total, 25:32505
dose for human leukemia, review of whole-body, 22:51773
dose fractionation in, of human genital neoplasms, protective effects of, 21:6571
dose fractionation in, rationale for, 24:29829
dose fractionation in, supereffective, 24:29830
dose measurement in, effects of field shape, field size, and source-to-skin distance on γ, 22:36290
dose measurements in Presdwood, Presdwood with inhomogeneities, and water for electron-beam, 22:51693
dose patterns for, library of, 24:50906
dose planning for human, methods using digital computer for cobalt-60 γ, 25:55221
dose planning for tumor, use of pantographic natural-size copies of radiographic tomograms for, 25:16146
dose planning for, computation service for, 23:50764
dose planning for, in man, use of computers for cobalt-60 γ and x, 24:34334
dose planning for, instrument design for recording body contours for, 25:21788
dose planning system for, using computer to calculate isodose curves, 21:20281
dose planning using IBM 1130 computer for calculation of treatment fields, 25:55218
dose rate significance in dermatological, 24:6137
dose schedule for radium, evaluation of, 22:43373
dose to bone marrow of human patients during external sources or internal radioisotope, 22:38322
dose to man from, 22:43457
dose to personnel inserting radium applicators for, γ, 21:28486
dose to population from oral, 21:12979
dose units for, evaluation of ret, 25:42413
dose—time relations for, tables of, 25:49196
dose—time relations in, ret concepts for, 25:42414
dose-depth distribution for cobalt-60 γ, determination of, 21:20223
doses to critical organs from commonly used isotopes, 21:22494
dosimetric problems in, 25:21801
dosimetry during cervical, by intraureteral dosimeter, 21:6522
dosimetry during rotational γ, design of dosimeter for, 21:20198
dosimetry during, use of luminescent dosimeters for, 21:34497
dosimetry for beam, use of computers for, 21:8821
dosimetry for breast carcinoma, in man, electron, γ or x, 21:24474
dosimetry for bronchial carcinoma, in man, effects of fractionated dose on γ and x, 21:24510
dosimetry for bronchogenic, linear programming for electron computer in planning of, 21:20196
dosimetry for cobalt-60, 21:3432
dosimetry for cobalt-60 γ, mathematical formulas for calculation of, 25:44879
dosimetry for depth-dose, empirical formulas for calculation of, 21:20194
dosimetry for distance, of maxillary tumors, 21:32689
dosimetry for external beam γ or x radiation used for, manual on, 24:48542 (STI/DOC-10/110)
dosimetry for γ, photographic technique for calculating, 21:10908
dosimetry for γ, use of digital computer for determining, 21:20193
dosimetry for γ, using electronic equipment, 22:51636
dosimetry for interstitial γ, 21:45761
dosimetry for moving field, analysis and determination of variables for optimum, 21:36682
dosimetry for rotational, equations for, 21:30856
dosimetry for thoracic neoplasms, use of computer to determine γ, 22:508
dosimetry for, computer method for planning, 21:10949
dosimetry for, design and use of analog electron computer for determining, 21:20195
dosimetry for, effects of collimators on, γ, 21:28489
dosimetry for, evaluation of methods of, x, 21:24432
dosimetry for, modern concepts of, 21:6526
dosimetry for, of humans, equivalent field principle application to computerized, 22:40670
dosimetry for, problems of, 21:32674
dosimetry for, use of axial intensity of depth doses for planning, 21:20197
dosimetry for, use of computers in γ, 22:8541
dosimetry for, use of data on active bone marrow distributions in, 21:10907
dosimetry for, use of deflection magnet current to control electron beam, 21:41406
dosimetry for, using sealed β sources, 21:10891
dosimetry in all fields during, significance of, 25:24294
dosimetry in beam, effects of heterogeneity of human body on, 21:3407
dosimetry in combined chromium-51 and phosphorus-32, use of scintigraphy for, 21:28578
dosimetry in curved surfaces during, design of phantom for cesium-137 and cobalt-60, 22:8546
dosimetry in fixed-field and rotation γ and x, 25:24166
dosimetry in γ, calibration of photographic film for, 21:12865
dosimetry in moving beam, determination of variables for, 21:28479
dosimetry in pendulum, derivation of formulas for, 21:32660
dosimetry in telecobalt conformation, measurement of, 21:28553
dosimetry in, IAEA comparison program on, 25:35141
dosimetry in, instrumentation for, 21:24436
dosimetry in, review of, 21:12861
dosimetry in, use of cadmium sulfide detectors for, 22:6661
dosimetry in, use of slide rule for, 22:45568
dosimetry methods, 25:16186
dosimetry of 18 MeV electrons for, of oral cavity neoplasms, 21:12880
dosimetry of betatron and cobalt-60 γ in uterus of man, use of computers for, 23:29705
dosimetry of cobalt 60, in cervical canal, uterus, and vagina, 22:25855
dosimetry of electron beams for, use of x-ray simulator for, 21:22455
dosimetry of fixed γ beam for, phantom studies of, 21:26451
dosimetry of γ, use of x-ray simulator for, 21:22455
dosimetry of partially blocked fields during telecobalt-60 γ, computer calculations for, 25:24172
dosimetry planning for, of human cancers, mathematical analysis of, 22:49362
dosimetry, design and use of automatic isodose plotter for, 21:24211
dosimetry, use of mathematical model of human body and computer calculations for, 24:31993
effect of acne vulgaris, during adolescence on development of thyroid carcinomas, 21:16458
effectiveness for carcinomas of human mouth, 25:19081

effectiveness for Hodgkin's disease in man, analysis of 5-yr survival rates for, 23:29671
effectiveness for neoplasms, design of clinical trials for evaluation of, 23:43831
effectiveness for treatment of neoplasms of head, neck, and pelvis, 25:19088
effectiveness for treatment of neoplasms of human larynx, mouth, or pharynx, comparison of effectiveness of surgery with high-dose, 25:19083
effectiveness in patients with lung neoplasms, use of pretreatment radioisotope scanning of brain and liver for metastases in evaluation of, 25:19047
effectiveness in treatment of Hodgkin's disease, combined effects of chemotherapy and x radiation on, 21:41461
effectiveness of cerebral astrocytoma, effects of whole-body hypothermia on, 21:32699
effectiveness of cesium and cobalt gamma, for human ovarian cancer in comparison to chemotherapy and surgery, review of, 25:24291
effectiveness of combined γ and x, on lung cancer of man, 22:40788
effectiveness of conformation, rotational, and two-opposite, formula for calculating, 23:20295
effectiveness of dose fractionation on, of rat neoplasms, 22:23648
effectiveness of electron beam, in relation to tissue interactions, 25:16264
effectiveness of electron, for neoplasms of head and neck, 21:16408
effectiveness of external beam and implant gamma, of carcinomas of human tongue, 25:24290
effectiveness of external, combined with radium for human cervical carcinomas, 25:21786
effectiveness of fast electron, effect of dose protraction on time factor of relative biological, 22:51759
effectiveness of fractionated, for human cervical carcinomas, effects of time scheduling on, 24:29842
effectiveness of high-energy beam, dosimetry and energy studies related to, 25:58075
effectiveness of high-energy electrons for, in relation to radiobiological research, 23:50763
effectiveness of human reticulum cell sarcoma, effects of dose on, 25:46934
effectiveness of lymphosarcoma, enhancement of, by methyl ethyl ketone diperoxide, 21:39448
effectiveness of meson (π^-), 25:49268
effectiveness of primary and metastatic human mouth carcinoma, 25:46933
effectiveness of radon for, in Gastein baths, 21:8903
effectiveness of radon for, in Gastein baths, 21:8903
effectiveness of tumor, effects of dose fractionation, oxygen, and tumor site on, 24:7927
effectiveness of x, for secondary cataracts, 21:12972
effectiveness of, combined with surgery for treating neoplasms, 21:20308
effectiveness of, effects of anoxia in tumors on, 21:16470
effectiveness of, effects of hyperbaric oxygen on, 21:22536
effectiveness of, effects of LET on, 21:22564
effectiveness of, effects of LET on, 25:19077
effectiveness of, effects of radiation dose on, 21:22564
effectiveness of, for Hodgkin's disease, evaluation of, 21:20278
effectiveness of, of cervical carcinomas, method for assessing, 21:11056
effectiveness of, review of biological principles for, 21:45762
effects combined with chemotherapy on pleural effusion in human lungs, 25:21779
effects of cervical carcinoma, during pregnancy on fetus, 21:6588
effects of cobalt-60, on mitosis in human malignant uterine neoplasms, 21:6594
effects of deep, as bone impairment in patients treated for cancer of the uterus, 21:11066
effects of delta-electrons in deep tissue, 22:51589
effects of fractionated doses of postsurgical x, on cervical carcinomas, 21:6590
effects of γ or x on bladder carcinomas, 21:22577
effects of γ, on development of necrosis of esophagus, 21:10938
effects of γ, on genital carcinomas in females, effects of corticosteroid treatment on, 21:6580
effects of γ, on pattern of villi in jejunum, 21:14722
effects of γ, on subsequent cystectomy, 21:12957
effects of hyperbaric oxygen and actinomycin D on, of Ehrlich ascites tumor cells, 21:6572
effects of hyperbaric oxygen on γ, of uterine cervix, 21:30845
effects of hyperbaric oxygen, on post-operative glioblastoma, 21:12891 (BNL-9598)
effects of iodine-131, of thyroid gland of thyrotoxic patients, discussion and review of, 21:18165
effects of iodine-131, on human chromosomes, 21:4869
effects of laser, on human carcinoma, 21:12917
effects of lung cancer, early lethal, 21:16479
effects of lymphoma, on radioiodine uptake by thyroid, 21:16507
effects of post operative, on survival of patients with lung carcinoma, 21:10970
effects of pre-operative, on post-operative immune reactions to neoplasm antigen, 21:18112
effects of preoperative x-, on morphology of mammary cancer cells, 21:20249
effects of presurgical, on survival rate in patients with tumors of superior sulcus, 21:6585
effects of radium, for hypophyseal tumors on intraocular pressure, 21:11065
effects of radium, on development of bone lesions, 21:16356
effects of radium, on viscosity of saliva in human beings, 21:18139
effects of remote electron, local irradiation, 22:51899
effects of shaded area in tissues during cesium-137, 21:16389
effects of x, of head and neck cancer on development of injuries of carotid arteries and pharynx, 21:14731
effects of x, of testicular malignancies on function of liver, 21:11108
effects of x, on development of injuries of temporal bone, 21:14738
effects of x, on human metabolism of tryptophan, 21:20399
effects of x, on lymphocyte count in leukemic and nonleukemic patients, 21:14732
effects of x, on transplanted gliomas in mouse brain, 21:1814
effects of, for carcinoma of bladder on induction of enteritis, 21:12961
effects of, for cervical carcinomas on vaginal cells, use of, as prognostic guide, 21:12987
effects of, of benign lesions of eyes on development of radiation injuries, 21:12985
effects of, of cervical carcinoma on chromosomes of blood cells, aberrant, 21:12808 (RISO-117)
effects of, of female genital organs, on induction of hip bone necrosis, 21:13026
effects of, of female pelvic area on induction of femur fractures, 21:14755
effects of, of glioma on development of teeth, 21:11044
effects of, of gynecologic cancers on lymph system, 21:8861
effects of, of retinoblastoma on induction of facial sarcoma, 21:10958
effects of, of tumors on development of injuries, 21:12976
effects of, of uterine carcinoma on induction of osteonecrosis and sarcoma, 21:4866
effects of, on arterial circulation, renal plasmatic flow, and glomerular filtration in patients, 21:4854
effects of, on bioelectrical activity of human brain, 21:6675
effects of, on blood flow in skin, 21:11035
effects of, on bone sarcomas, 21:10943
effects of, on breast development following use for hemangiomas in children, 21:16512
effects of, on central nervous system, latent x, 21:8884
effects of, on course of herpes zoster in children, adverse, 21:8868
effects of, on course of some somatic diseases, 21:16489
effects of, on development of anomalies of human eye and nervous system following exposure in utero, 21:10939
effects of, on development of hematopoietic diseases, 21:11050
effects of, on development of injuries of kidneys, 21:16492
effects of, on function and morphology of rat lymph nodes, 21:13004
effects of, on function of parathyroid glands in patients treated for hyperthyroidism, 21:6674
effects of, on hearing following use for head and neck tumors, 21:16474
effects of, on histology of bronchial carcinoma, 21:16414
effects of, on human male fertility, 21:8996
effects of, on intestine exposed during therapy of gynecologic carcinoma, 21:8950
effects of, on liver reticuloendothelial system, detection of, by scintillation scanning, 21:20354
effects of, on lymphocyte chromosome morphology following genital carcinoma irradiation by, radium and x, 21:3401
effects of, on metastatic cancers in lymph nodes, radiographic evaluation of, 21:8861
effects of, on morphological characteristics of melanoblastomas, 21:4818
effects of, on mouth during treatment of head region, 21:16405
effects of, on pattern of villi in jejunum, 21:14724
effects of, on resistance of bladder and lung to endogenous flora, 21:12930
effects of, on serum content of haptoglobins in cervical carcinoma patients, 21:16301
effects of, on sialic acid content in blood serum of uterine cancer patients, 21:6573
effects of, on teeth during treatment of head region, 21:16405
effects of, on transition of polycythemia to myeloproliferative syndromes, 21:11057
effects of, pathological, in bones of skull following treatment of brain tumors, 21:18077
effects on absorption in human intestine, 22:49547
effects on antrum carcinoma, effects of, on development of eye injuries, 21:28640
effects on behavior of serum-hexoses, hexosamines, and seromucoides, 21:26532
effects on bladder, incidence of, 21:32715
effects on blood circulation during gynecological treatment using radium implants, 21:16451
effects on blood vessels following treatment of Hodgkin's disease, 21:26597
effects on bone development in treated children, radiographic illustrations of, 21:419
effects on breast carcinoma in man, β, 21:36659
effects on bronchial carcinoma, induction of complications in man by electron, 21:32710
effects on bronchial carcinomas, comparison of γ and x, 21:36627
effects on carcinoma incidence in patients treated for leukemia, 21:22613
effects on carcinomas in man under conditions of high oxygen pressure, 21:34685
effects on catalase activity in erythrocytes, 21:34574
effects on cervical carcinomas, evaluation of, 21:36639
effects on chromosomes in peripheral blood cells of man, aberrant γ, 21:43356(R) (EUR-3499.i)
effects on chylothorax of, for abdominal lymphosarcoma, 21:3418
effects on complete remissions in chronic lymphocytic leukemia and leukolymphosarcoma, 21:20271
effects on content of calcium, copper, potassium, sodium, and zinc in human blood, 22:45436
effects on dermatitis production in man, observations of, in 126 patients, 21:26643
effects on false aneurysm production after treatment of carcinoma of pharynx, 21:16477
effects on fetus of women with cervical neoplasms, 21:26513
effects on function of human lymph nodes and vessels after use for cancer treatment, 21:20356
effects on glioblastomas in man, combined effects of cytostatics on, 21:36643
effects on gynecologic neoplasms, treatment of complications from, 21:36636
effects on gynecological neoplasms in man, evaluation of, 21:36641
effects on healing of surgical wounds, 21:41468
effects on hearing of, of tumors in tissues surrounding ears, 21:6597
effects on hematology of dogs with leukemia, 23:20110
effects on hematopoietic tissue in patients treated with iodine-131 for toxic goiter, 21:28608
effects on human bladder of, for neoplasms, 21:6596
effects on human chromosomes, aberrant γ and x, 22:38243
effects on human genetics, review of, 21:34634
effects on human neoplasms, effects of, on histology of bone marrow, 22:40930
effects on human urinary tract, surgical treatment of latent, 23:4998
effects on hypothalamus during betatron treatment of cerebral tumors, 21:20337
effects on incidence of carcinomas in thyroid gland of man in relation to age, survey of, 22:15055
effects on incidence of myocardial lesions following, of thoraco-mediastinal neoplasms, 21:26623
effects on incidence of thyroid adenomas and carcinomas in man, effects of exposure of head, neck or thorax during childhood and infancy on, 21:24605
effects on induction of malignant lymphomas, 21:22655
effects on induction of oral complication in man, treatment of, x, 21:30843
effects on induction of protein metabolic disorders, use of methenolone for treatment of, 21:28572
effects on inoperable human lung neoplasm, γ, x, 21:28528
effects on lymph system of patients with lymphomas and carcinomas, 21:28522
effects on lymph system, detection of, by lymphography, 21:26493
effects on lymphatic system, incidence of malignant neoplasms following, 21:43467
effects on lymphocyte chromosomes in spondylitis patients, 21:22485
effects on malignant tumors of man, effects of Ametohepazon on, 22:23582
effects on man following mastectomy, combined effects of oxygen on, 22:40802
effects on man treated for laryngeal carcinoma, observation of early post-irradiation reactions of x, 21:22529
effects on man, development of pseudo-radiation reaction following, 22:51960
effects on man, factors affecting recovery from, 21:30862
effects on mesodermal neoplasm induction in human uterine corpus 13 years later, 21:22740
effects on morphology of the intestinal mucosa of man, x, 22:49562
effects on mucosa and subcutaneous tissues, electron, 22:51764
effects on neoplasms, combined effects of actinomycin on, 21:22474 (ARCH-26, pp 115-18)
effects on neoplasms, results of, of hyperoxygenation on, 21:36673
effects on nervous system of human children, latent pathological, 22:43398 (NP-17495)
effects on ovarian carcinomas, β, 21:36660
effects on oxygenation in osteosarcomas of mice, effects of dose fractionation on x, 22:43273
effects on patients with Hodgkin's Disease, 21:20291
effects on patients, electron and x, 22:51760
effects on pituitary adenoma, development of leukemia following x, 21:45735
effects on plantar warts, late pathological, 21:36676
effects on properdin titer of human serum, 22:545
effects on recovery of dividing normal tissues in mammals, kinetic study of, 22:36389
effects on rectum of man, 21:36640
effects on regeneration of metatarsus bones in man following tumor treatment, γ, 21:36698
effects on retroperitoneal neoplasms in children, x, 21:28536
effects on skin and mucosa, effect of dose fractionation on electron, 22:51762
effects on skin and mucosa, electron, 22:51763
effects on skin dermatoses, tumorigenic effects of x, 21:36690
effects on skin of patients, late electron, 22:51761
effects on stomach and small intestine, incidence of β, γ, and x, 22:2550
effects on survival of cancer patients, 21:45691
effects on survival of patients with carcinoma of esophagus, effects of presurgical exposure on, 21:39470
effects on syringomylia, using iodine-131, 21:20257
effects on teeth and jaw growth following childhood exposure, 21:24636
effects on teeth following, for hemangioma and Hodgkin's disease, 21:22673
effects on thyroid cancer induction, review of, 21:28524
effects on thyroid gland of patients treated for thyrotoxicosis, iodine-131, 21:41466
effects on tumors of ovary, postoperative, 21:36697
effects on tumors, effects of dose fractionation and duration of treatment on, 21:36655
effects on tumors, effects of dose fractionation on, 21:45750

effects on tumors, effects of dose fractionation on, 21:34752
effects on tumors, laser, 21:36737
effects on ureter damage production, surgical method for treatment following, 21:28530
effects on ureters after use for cervical cancer, 21:24643
effects on uterine carcinomas in man, latent effectiveness of, 21:36642
effects on vaginal carcinomas, moving beam telecobalt, 21:36625
effects on Yoshida sarcoma cells in rats, combined effects of carcinostatic agents on, 21:36654
efficiency factors in, computer calculation of, 21:45756
efficiency of γ, of neoplasms under conditions of high-pressure oxygen, 21:8894
efficiency of presurgical, of supraglottic larynx carcinomas, 22:45600
efficiency of repeated, of cervical carcinomas, 21:6586
efficiency of, combined with surgery for treating malignant neoplasms, 21:6559
efficiency of, effects of high pressure oxygen on, 21:28539
efficiency of, for treating cutaneous hemangiomas, 21:6581
efficiency of, of cervical carcinomas, method for determining, 21:10987
electron beam distribution during, use of plane densitometer to analyze, 23:6528
electron beams in, review of use of, 25:24280
electron depth dose measurements in Rando phantom for, 22:51692
electron field homogeneity during electron, design of balancing ion chamber for stabilizing, 22:51698
equipment and facility for, design of, 22:42949(P)
equipment and method for treatment of tumors, 23:29046(P)
equipment and methods for human, review of, 22:51679
equipment and procedures for, review of development of, 23:16357
equipment design for uv, of sunlight-deficiency diseases in underground workers, 22:33837(T) (JPRS-41315, pp 26-35)
equipment development and projections in USSR for high-energy heavy-particle accelerator, 25:24272(T) (UCRL-Trans-1422)
equipment for beam control during gamma, design of compensator, 24:36476
equipment for beam-type, design and operation of irradiation head for, 25:29258(P)
equipment for cancer, development of 32-MeV betatron, 22:53052
equipment for cobalt-60 γ, and shielding problems in design of, 24:50942
equipment for cobalt-60, design of, 21:3432
equipment for conformation, operation and dose calibration of 6-MeV linear accelerator, 22:36310
equipment for electron and x ray, target facilities for accelerator, 23:39883(P)
equipment for electron and x-ray description of Toshiba LMR-13 linear accelerator, 23:21206
equipment for fast neutron, at TAMVEC cyclotron, 25:50466
equipment for gamma, design and operation of, 23:6244
equipment for gynecological plesio-, development of cesium-137 Curietron, 24:39120
equipment for γ, design of collimator for, 21:41094(P)
equipment for high-energy electron, performance of scattering foil, 23:29056
equipment for high-energy, dose planning and field localization with mechanically-coupled roentgen source and image amplifier, 23:2900
equipment for human gynecological, development of Curietron, 25:21792
equipment for hyperbaric oxygen, design of hydraulic-lifting trolley, 21:20307
equipment for interstitial, design and dosimetry of solid wire cobalt-60 etalon, 24:46644
equipment for neutron, design parameters for cyclotron, 25:17646
equipment for neutron, review on development of accelerator, 25:3473 (CONF-700322-, pp 407-29)
equipment for phosphorus-32 cutaneous, design of plastic applicator, 24:383
equipment for, automatic patient-contour measuring, 24:7667 (ACRH-1000-162)
equipment for, cam production method for, 22:12501(P)
equipment for, control device for irradiation, 22:49006(P)
equipment for, description of electron accelerator, 21:40314
equipment for, design of accelerator, 23:39884(P)
equipment for, design of aluminum wedge filter for use for cobalt-60 teletherapy, 21:8851
equipment for, design of diaphragm device for, 23:6252(P)
equipment for, design of digital control panel for cobalt-60, 22:51152
equipment for, design of radiation source transfer system for, 23:6253(P)
equipment for, ionization chamber for checking output of, 23:657
equipment for, irregularity of isodose distribution in telecobalt conformation irradiation, 23:20301
equipment for, need for protection against lightning of, 21:4807
equipment for, performance of linear accelerator, 21:29696
equipment for, performance of linear accelerator for, 21:29695
equipment for, registration of, 23:31795(R) (RPS-AR-1)
equipment for, shielding of 42-MeV betatron, 21:19105
equipment for, short alternating-periodic-structure electron linac, 24:38000
equipment for, use of betatron as, 22:32377
equipment for, using γ and neutron sources, 25:51728(P)
evaluation by bremsstrahlung scanning of phosphorus-32 or yttrium-90, 21:24466
evaluation of 4-treatment/week schedule for, of human neoplasms, 24:29841
evaluation of brain tumor, by γ-encephalography, 21:22579
evaluation of chromium-51 seed implants for, of human tumors, 22:40777
evaluation of effectiveness of cervical cancer, using cytological methods, 22:19375
evaluation of electron, of man, 23:6542
evaluation of electron-beam, for tumors of head and neck, 21:14680
evaluation of fast-neutron source for, 21:8926
evaluation of heavy ions and pions for use in, 22:4646
evaluation of iodine-131-labeled analogs of 1,1-dichloro-2,2-bis(chlorophenyl) ethane for, of adrenal carcinomas, 22:10819
evaluation of laryngeal neoplasm, in man, γ and x, 21:41445
evaluation of meson π^-, 25:19078
evaluation of methods for, of pituitary adenomas, 21:10947
evaluation of neutron, clinical, 22:36299
evaluation of pion beams for, 22:8600 (CONF-670305-, pp 368-81)
evaluation of preoperative, of adenocarcinoma of endometrium, 22:45670
evaluation of proton, 25:21800
evaluation of radiation dose schedules for, equation for, 22:40684
evaluation of sieve, with multifocus source for subcutaneous tumors, 24:34546
evaluation of techniques for improving effectiveness of, 24:29832
evaluation of x, for malignant tumors in man by pathologists, 22:43382
evaluation of, alone and combined with surgery, for carcinoma of cervix uteri, 21:18111
evaluation of, combined with chemotherapy, for treatment of malignant diseases, statistical method for, 21:14674 (COO-78-150)
evaluation of, for cervical carcinomas using radiation response prognostication, 21:10934
evaluation of, for intracranial neoplasms, 21:12891 (BNL-9598)
evaluation of, of neoplasms using fractionated doses, 21:16407
exposure doses of medical personnel during, in gynecology departments of cancer institutes, 21:8837
exposure techniques for heavy charged-particle, 25:24281
facilities for high-energy, world-wide directory of, 24:12199 (STI/PUB-177)
facilities for, design criteria for hospital, 21:8855
facilities for, using radioisotopes, design and management of, 21:10892
facility for whole-body x, design of, 21:28518 (ORINS-52)
field shaping for, variable block-surface-distance for adjustment of shadow size in, 25:26892
field size during γ, method for measuring, 25:44871
formula for relation of dose, fractionation and time, as nominal standard dose in, 23:35756
gamma source design for short distance, 22:45651
gamma sources for, equipment and method for standardization of cesium-137, 24:16798
gamma sources for, evaluation of cesium-137 and cobalt-60, 21:14642
genetic and somatic injuries resulting from, 21:4837
gold-198 use in, for treatment of metastases of skin melanomas in man, 21:28529
gold-198, of lung and mammary gland cancers, 21:20382
gold-198, of mammary carcinomas, effectiveness of postoperative, 21:20239
gynecologic neoplasm, incidence of intestinal injuries following, 21:13003
hazards and benefits of supervoltage, for human carcinoma, 21:10979
hazards and benefits of supervoltage, for human mammary gland carcinoma, 21:10980
hazards from use of radioisotopes for, reduction of, 22:51644
hazards from, comparison with other radiation sources, 21:24444
hazards of intracavitary, isodose curves for determination of, 21:39430
hazards of, in treatment of retinoblastoma, 21:8849
hazards of, of brain and surrounding areas, 21:6695
hazards of, to human fetus during treatment of cervical carcinoma, 21:10975
hazards to human surgery, 22:45705
hazards to man, estimation of, 23:48052
hazards to man, evaluation of carcinogenic and leukemogenic, 22:45720
hazards to man, x, 22:21595
human sarcoma, synergistic effects of laser radiation and x radiation on, 21:20247
improvements in methods of, combined with chemotherapy, 23:16350
incidence of genital neoplasms in women following, of gonads, 21:8904
induction of bladder rupture by γ and x, of carcinomas, treatment of, 21:16384
induction of chromosome aberrations by, effects of post-irradiation time on stability of, 21:4786
induction of maxillary radionecrosis of lower jaw of man from, use of surgery to repair damage resulting from, 21:8874
injuries from, in sebaceous glands, 21:4863
injuries from, malpractice suit involving, 21:410
injuries induced by, review of, x, 21:32714
injuries induced by, use of plastic surgery for repair of, 21:22578
injuries of bone induced by, of mouth neoplasms, 21:22569
injuries resulting from eye, 21:24522
injuries resulting from laryngeal carcinoma, 21:24641
injuries to skin from electron and x, 21:22730
instrumentation and procedures for, in Japan, development of, 24:21235
instrumentation and techniques for, recent advances in, 24:9796 (CONF-690303)
intestinal injuries following cervical neoplasm γ and x, 21:26657
iodine-131 for treatment of metastases from papillary carcinomas of thyroid, comparison with treatment by feeding desiccated thyroid, 21:397
iodine-131 use for, of hyperthyroidism, incidence of hypothyroidism following, 21:26598
iodine-131 use for, of thyroid carcinomas, effects of mannitol on, 21:22502
iodine-131, of hyperthyroidism, 21:12901
iodine-131, of hyperthyroidism, effects of, on later function of thyroid, 21:12921
iodine-131, of thyroid carcinomas, evaluation of techniques for, 21:26500
iodine-131, of thyroid, protective effects of methylthiouracil and potassium perchlorate during, 21:12941
iodine-131, of thyrotoxicosis in man, hazards from, 21:28554
isodose charts for multiple-field, 21:18072 (STI/PUB-100(Vol.2))
isodose charts for use in, considerations of nonuniformity of tissues in compilation of, 21:8892
isodose curve construction method for, 21:20258
isodose curve transformations for, computer program for cobalt-60 γ, 23:45748
isodose curves for cyclo- and fixed-field cobalt, calculation of, 25:35136
isodose curves for use in, 21:8886
isodose curves for, use of digital computer to trace, 25:32427
laryngeal tumor, method for laryngectomy after, 21:16484
lasers for, of melanomas in animals and man, 21:18082
legal aspects of use of Thorotrast in, 22:12780
leukemia following iodine-131, of thyrotoxicosis, 21:26656
leukemia following, of Burkitts tumor, development of, 21:24463
leukemia, use of splenic x-irradiation for, 21:24490
leukemia, using extracorporeal γ irradiation of blood, 21:22477 (BNL-994, pp 124-39)
linear accelerator for, control of beam stability in, 23:10883
linear energy transfer in, 21:28523
localization of human organs and tumors for, method for x ray, 23:18074
lung carcinoma, effects of simultaneous intermittent occlusion of pulmonary artery and inhalation of oxygen on, 21:18078
lung carcinoma, in human beings, comparison of effects of x radiation with combined x radiation and 5-fluorouracil, 21:8935
lung injuries induced by, diagnosis and treatment of, 21:26627
lung shield design for use during, 23:35830
malignant tumor, comparison of laser and x-rays for transplanted adenocarcinomas and myxofibrosarcomas in hamsters, 21:16412
management of neuroblastoma, in children of man, 22:43362
measurement of radiation dose distribution in thorax of man during, fixed-field meagavoltage, of neoplasms with cobalt-60 unit, effects of aeration and tissues of lungs on, 21:8814
melanoma, in mice, use of neodymium and ruby lasers for, 21:12943
meningioma, cerebral radionecrosis following, 21:1820
meson (π^-) capture in light elements for cancer, calculations for, 23:8940
meson use for, evaluation of, 21:28519 (UCRL-17441)
metastases following x, effects of hyperbaric oxygen on incidence of, 21:20404
method for brain tumor, using 10- to 20 MeV electrons, 21:20237
method for carcinoma, using sieve irradiation technique for, 21:45746
method for cervical carcinoma, using x rays followed by cobalt-60 or radium implants, effects of time-interval between treatments on effectiveness of, 21:18107
method for chronic lymphatic leukemia using portable cobalt-60 source, 23:20282
method for control of radiation field during cobalt-60, of tumors, 23:29699
method for dosimetry of radiation implants in, 21:20209
method for hemangioma, 21:45677
method for human breast cancer, using fast electrons, development of pendular, 25:35191
method for human mammary carcinomas using two opposing beams of 4 MeV x rays, 23:35836
method for human neoplasms using dose fractionation of supervoltage x rays, 22:31153
method for interstitial radium, for lymph system metastases of human neck, 24:4663
method for leukemia, in cattle using extracorporeal γ irradiation of blood, 21:28552
method for mammary carcinoma, in man, using high-energy electrons, 21:26545
method for maxillary sinus and esophageal tumors using cobalt-60 seeds, 25:21789
method for pendulum, of uterine malignancies, dosimetric substantiation of, 21:10897
method for pharyngeal cancer, using crossed beams, 21:43468
method for psoriasis vulgaris, in man, evaluation of uv, 22:4650
method for skin cancer, using combined superficial x and radium γ, 21:26549
method for superficial, using scattered Compton radiation from block of paraffin, 24:34527
method for tumor, using electron beams, 21:26648

method for, of bladder papillomas using injections of sulfur-35-labeled Thio-TEPA, 21:10920(T) (NP-tr-1492)
method for, of inoperable cervical cancer, 21:10935
method for, of laryngeal carcinomas, 21:14684
method for, of maxillary cancer using gold-shielded radium applicators, 21:14685
method for, of parenchymal carcinomas of human kidney, x, 21:18109
method of cobalt-60, two-field, 25:21793
method using fractionated dose for presurgical treatment of malignant tumors, 21:22558
method using interstitial implants of labeled microspheres, development of, 22:38380
method using meson (π^-) beams, 23:6553
method using sieves, relation of inhomogeneity quotient to biological sieve effect in, 21:36635
methods for abdominal neoplasms using moving strip exposure and dose fractionation, 24:21256
methods for complex body regions, additive and subtractive, 25:21791
methods for corneal xanthomas, in human eyes, combined β and x, 21:24482
methods for creating hypothermia during, 24:44530
methods for external, of cervical carcinomas, 21:6563
methods for human lymphomas using inverted-y x-ray exposure, 25:8734
methods for human lymphomas using mantle x-ray exposure, 25:8735
methods for improving, of uterine carcinomas, 21:6579
methods for interstitial and intracavitary, 23:885
methods for lymph node metastases, x, 22:45612
methods for lymphoma, in man, review of, 22:8573
methods for moving field, dosimetric calculations for, 24:50907
methods for neoplasm, with laser, 21:24653
methods for neoplastic diseases in animals and man, abstracts of conference on, 24:14558
methods for optimizing irradiation techniques in, use of computers for, 24:48655
methods for prevention of neoplastic lesions following dental, 25:19069
methods for reticulosarcomas, evaluation of effects of dose on γ, 21:45712
methods for retinoblastoma, in man, 21:28565
methods for rotational, phantom studies on, 25:16149
methods for skin cancer to avoid damage to normal tissues, 21:30847
methods for squamous cell carcinoma of the tongue, γ, 21:32709
methods for uniform large-area treatment, design of x-ray shielding for use in electron, 22:28615
methods for varying wedge filter angles for cobalt-60 γ, 25:6751
methods for, conference on, 21:45743
methods for, evaluation of linear programming for optimal, 24:14559
methods for, of human malignancies using neutron capture techniques, 21:6576
methods for, of malignant melanomas of choroid, evaluation of, 21:6587
methods for, of prostatic carcinomas, evaluation of, 21:6582
methods for, review of, 21:24496
methods for, review of, 21:43446(T) (TT-67-56008/2)
methods for, review of improvements in, 23:35823
methods in relation to time-dose-volume, 23:24701
methods in USSR, development and prospects of, 25:52147 (A/CONF.49/P-437)
methods of, development of, 21:45639
methods of, of carcinomas of uterine cervix during pregnancy, 21:16379
methods using 13-MeV electron linear accelerator, x, 23:35829
methods using telecobalt irradiation facilities, split-field dosimetry for, with reference to central penumbral isodose separation, 23:29672
microspheres for interstitial, of neoplasms, use of strontium-90 in, 21:22574
model for effects of dose on tumor, 23:29676
models for, use of cell cloning experiments as, 21:41361
moving table design for large-field cobalt-60 γ, 22:27963
necrosis of jaw following, for neoplasms of face, 21:11078
neoplasm, review of, 21:16397
neutron beam for, of cancer in human beings, use of fast, 21:24479
neutron source for, design of, 22:43351
neutron source for, evaluation of californium-252, 25:4218
neutron source for, evaluation of californium-252, 25:15849
neutron source for, evaluation of californium-252, 25:6475
neutron source for, evaluation of californium-252, 25:15850
neutron source for, evaluation of californium-252, 25:6473
neutron source for, evaluation of californium-252, 25:6474
neutron use for, 21:28538
nomograms for elaboration of isodose charts for use of gamma, 21:8895
oval portal for cobalt-60 γ, of cervical carcinomas, 24:34540
oxygen effect in, review of, 23:41416
pathological effects from, on spinal cord, 21:6703
pathological effects from, used for benign skin conditions, x, 21:22561
pathological effects of, on bones, x, 21:22563
pathology of injuries induced by, in kidneys of man, 21:24584
pathology of nephritis induced by, over renal area in man, 21:24585
patient rehabilitation following use for neoplasms of mouth and pharynx, 24:21247
pendulous technique for, of hypopharyngeal and laryngeal malignant tumors, electron dose distribution measurements for evaluating, 22:51691
pendulum techniques for uterine carcinoma, in obese patients, γ, 21:22503
performance of 5-iododeoxyuridine- and thymidine-incorporated tritium for, of neoplasms, 22:17030
performance of conventional and supervoltage generators for, of human neoplasms, review of effects of preoperative treatment, hydrogen peroxide, and hyperbaric oxygen on, 22:28600
performance of fast electron, for skin tumors, 21:24524
performance of hyperbaric oxygen, for human tumors of various locations, 23:41409
performance of modified γ irradiation facility for, 22:31156
performance of smaller Gravicert cobalt-60 γ sources in, 22:38353
performance of telecobalt, for malignant bone tumors, 21:16390
performance of, combined with endoxan for bronchial carcinomas, 21:16398
performance of, for malignant thymoma, 21:20244
performance of, for myelocytic leukemia, effects of immune mechanisms on, 21:12967
phosphorus-32 implants for, of neoplasms of oral mucosa, histological and hematologic effects of, 21:28547
phosphorus-32 use for internal, of myeloproliferative diseases in human being, 21:26528
phosphorus-32, for polycythemia, effects of, on development of leukemia, 21:13025
phosphorus-32, of ovarian carcinoma, performance of, 21:16399
phosphorus-32, of polycythemia, hazards from, 21:13024
physical aspects of multiple field, 24:21163
pituitary ablation by, comparison, 21:16415
pituitary ablation by, comparison of results of, with surgery, 21:16415
planning 42-MeV betatron electron, using tissue-equivalent phantoms, 25:26865
planning for cobalt-60 gamma, use of desk-top computer for, 24:12084
planning for cobalt-60 moving beam or static field, use of desk computer for, 25:35195
planning for cobalt-60, in man, performance of computer for, 23:48183
planning for fixed source-tumor distance in, treatment plan for, 23:9990
planning for high-energy, programs for, 25:4514
planning for rotational, criteria for, 25:19067
planning for, biological and physical basis of, 24:23278
planning for, factors affecting use of radioisotope scanning for, 24:41920
planning for, use of ultrasonic scanning in, 24:44580
planning of electron-beam, 23:50762
preparation for implant, using non-radioactive supporting materials, 21:20303
prevention of radiation injuries during, 21:4837
principles of, review of biological, 22:40790
proceedings of the fifth session of the European Society of Pediatric Radiology, 23:41367
prognosis of uterine cancer, using enzyme activities in vaginal fluid, 24:21083
prognosis of, of uterine cervical carcinomas, use of ceruloplasmin content for, 21:12919
program for fast neutron, 23:26852 (CONF-661131-)
programs for dose calculations using computers, 24:21176
programs in Japan, review of, 25:52124 (A/CONF.49/P-263)
programs in Sudan for, 25:52131 (A/CONF.49/P-639)
protection against eye injuries during, use of lead shielding for, 21:32667
protection against injury during deep x-ray, use of carbozochrome sodium sulfonate for, 21:34723
protection from radiodermatitis during cervical x, 21:22630
protection in electron, high-energy filters and protective devices for, 22:51694
protection of healthy tissues during, of tumors of human face and jaw, 23:20306
protection of personnel against hazards of, duties of safety officers in relation to, 22:51641
protection of personnel during, 22:23573
protective effects of bone marrow transplants against injuries developed during, of leukemia using electron beams and x rays, 21:10940
protective procedures during x, of mouth, jaw, and tooth in humans, 21:22459
proton beam production for, by ITEP 7 GeV synchrotron, 200 MeV, 23:30891
proton beams in, 25:52151 (A/CONF.49/P-752)
radiation alarm systems for rooms of patients during, 22:49374
radiation dose calculations for 6-MV x-ray conformation, tissue-reference output ratio method for, 23:20307
radiation dose calculations for implant, use of computers for, 25:11058
radiation dose calculations for Rokus γ-emitter in relation to source-surface distance, radium, 25:524
radiation dose control during, methods for, 22:4624
radiation dose determination for, using cobalt teletherapy, γ, 21:10910
radiation dose distribution for oblique incidence, in cobalt-60, methods for constructing isodose curves for, 23:20311
radiation dose distribution in cobalt-60 gamma, oblique incidence corrections for, 23:20303
radiation dose distribution in homogeneous body during cobalt-60 gamma and 4.3 MV x, computer calculation of, 23:20314
radiation dose distribution in rectangular fields from cobalt-60, method for constructing standard isodose curves for, 23:20309
radiation dose distribution in rectangular fields from cobalt-60, isodose curves for, 23:20313
radiation dose distribution in thorax of man during 4.3 MV x-ray, method for constructing isodose curves for, 23:20305
radiation dose distribution in, design of photographic film isodose plotter for determining, 23:19960
radiation dose from cobalt-60, use of chemical dosimeter for measuring intergral, 23:20312
radiation dose from, analysis of measured and stated values of, 23:50509
radiation dose to cervical cancer in man during conformation cobalt-60 gamma and 4.3 MV x, methods for estimating, 23:20304
radiation dose to human patients during, methods for control and reduction of, 23:6456
radiation dose to human tissues during, effects of energy on x, 25:42430
radiation dose to patients during, design of Dose Distribution Display Computer for determining, 23:41158
radiation dosimeter use in, 24:5938
radiation hazards and protection of patients and medical personnel during, 21:393
radiation injuries following, of tumors of central nervous system, 21:10941
radiation injuries following, using radium-224, 21:11011(T) (ANL-Trans-386)
radiation injuries of intestine and urinary system during radium, prophylaxis of, 21:11052
radiation isodose tracer for, design of semi-automatic, 24:14314
radiation protection code for sealed beta and gamma source, 25:42492
radiation protection code for sealed source, 25:42491
radiation protection during, 21:30813
radiation protection during, NCRP report on, 22:23506 (NP-17328)
radiation protection of personnel during, of cancer patients, 21:8836
radiation protection programs for patients and personnel during, 23:9967
radiation protection standards for man during, in Virginia, development of, 23:6477
radiation sickness following radium and x, for cervical carcinoma, 21:10946
radiation source for, design of directional control device for, 22:228(P)
radiation sources for external and intracavitary, evaluation of, 21:12891 (BNL-9598)
radiation sources for gynecological, comparison of conventional and supervoltage for, 23:865
radiation sources for, design and fabrication of injectable, 24:16797(P)
radiation sources for, design of shielded container for, 23:7684
radiation sources for, development of small spherical titanium-encapsulated cobalt-60, 25:22062
radiation sources for, dosimetry of mobile, 24:12079
radiation sources for, of polycythemia, evaluation of, 21:13023
radiation sources for, use of cesium-137 and iridium-192 as, 23:4987
radiation sources for, world distribution of high-energy, 21:12929
radioactive compounds for, of lymph node tumors, development of, 21:24467
radioapplicator positioning problems in, of uterus, 21:22491
radiobiological basis of tumor, 21:4836
radiobiological principles in, review of, 24:6096
radiodermatitis induction by, histological and morphological changes in nerve cells due to, 21:18146
radiography for planning cobalt-60, of uterine carcinomas, 21:3424
radioinduced fibrosis from, of skin, methods of treatment for, 21:12907
radioinduced human eye sarcoma after, with radium, 21:6686
radioinduced hypothyroidism with iodine-131, in hyperthyroid man treated for relief of respiratory stress, 21:11106
radioinduced injuries in large intestine from radium, for uterine cervical carcinoma, case studies on, 21:11105
radioinduced injuries to hand following, malpractice suit involving, x, 21:410
radioinduced mandibular necrosis from oral cancer, 21:18164
radioinduction of hypothyroidism in patients following, of hyperthyroidism with iodine-131, 21:8949
radioisotope implants in pituitary for, of cancer and endocrine diseases, injuries resulting from, 21:24644
radioisotope production for, 23:20300
radioisotope seeds for use in, assay of, 23:5003
radioisotope use in, review of, 21:30830
radiomyelitis induction by, for human carcinoma, 21:6673
radionecrosis of uterus following radium, 21:1803
radium applicator for intrauterine, description of new type of, 21:26524
radium implants for laryngeal cancer, use of thyroid cartilage penetration in, 21:22493
radium use for, of carcinoma of lower lip, comparison of superficial applicators with interstitial needles, 21:22568
radium, effects of surgery combined with, on sarcomas of soft tissues, 21:20238
radium, of malignant tumors, ointment for prophylaxis and treatment of skin injuries induced by, 21:20240
radium-224 use for, of skin diseases, 21:22458
rationale for meson (π), 25:52122 (A/CONF.49/P-161)
reactor for, performance of Hiedelberg Triga, 25:60173
reference systems for wedge fields in, comparison of, 21:45725
relation to radiobiology, review of, 24:34541
research and development at Puerto Rico Nuclear Center, 1968, 23:37857(R) (PRNC-131)
research and development in Puerto Rico, 1969, 25:8574(R) (PRNC-140)

research at Oak Ridge Associated Universities during 1969, 24:39539 (ORAU-110)
research by Birmingham Branch, Great Britain in 1968, 24:2708
research by Cancer Research Committee of the University of Bristol, Great Britain, in 1968 on, 24:2703
research by Cancer Research Department of the Westminster Hospital, Great Britain, in 1968, 24:2702
research by Guy's Hospital Medical School, Great Britain in 1968, 24:2695
research by Institute of Cancer Research: Royal Cancer Hospital, Great Britain in 1968, 24:2693
research by the Cambridge University Cancer Research Committee, Great Britain, in 1968, 24:2704
research by University College Hospital Medical School, Great Britain, in 1968, 24:2701
research in cancer, 22:51875 (TID-4060(1st Ed.))
research in Russia, outline of five-year plan for, 21:39537
research in, progress report on, 21:45661(R) (ORAU-101)
research in, review of progress in, 24:21261
research on californium-252, experimental, 24:39546
research on oxygen effect in, 24:7924
research program in, at Lawrence Radiation Lab, 23:7934(R) (UCRL-18066)
research programs at Juelich on, 21:14127(R) (NP-16420)
research programs of AEC during 1970 on, 25:44293 (TID-25728)
research programs on, in Puerto Rico, 21:41151(R) (PRNC-82)
research studies at Oak Ridge Associated Universities during 1970 on, 25:42587 (ORAU-113, pp 78-133)
results of, on one thousand cases of brain neoplasms, 21:6599
review for human breast cancer, γ and x, 24:4668
review of advances in α, neutron, pion, proton, and x, 23:43842
review of advances in, of human tumors, 22:51804
review of current journal literature in, 23:43832
review of equipment and radioisotopes for, in Japan, 23:43825(T) (NSJ-tr-106)
review of extracorporeal irradiation methods in, 23:29685
review of extracorporeal irradiation of circulating blood in, 24:7968
review of human cancer, 23:41403
review of literature in, translation of Polish, 24:46624(T) (TT-69-50002/4)
review of mechanisms for tumor, 23:26826
review of methods for, used in Soviet Union during past 50 years, 22:4638
review of nasopharyngeal cancer, in Australia during 1950 to 1969, 25:52170
review of new advances in, 23:50767
review of radioisotopes for, 25:29573
review of recent research on, 25:49254
review of research relevant to, 24:811
review of techniques for, 21:32674
review of use in medicine, 22:4651
review of use of high-energy electrons in, 25:567
review of use of, for kidney neoplasms, 23:50753
review of veterinary medicine, 23:31869
role of diet in, 23:41405
safety in, duties of safety officers in, 22:51640
safety of, review of radiation accidents involving, 21:1762
safety procedures for use of accelerators for electron and x, 22:40687
shielding for fast neutron, design of, 22:8551
shielding for, melting pot for fabrication of lead shot—thermoplastic individual, 25:52489
skin dose calculation for arc, using x or γ sources, 21:8819
skin injuries following, 21:26494
source holder for, description of, 25:54902(P)
source implantation for, of uterine carcinoma, dose to personnel during, 21:28485
source positioning equipment for, design of automatic, 24:25227(P)
sources for conventional, orthovoltage, and megavoltage, evaluation of, 23:45853
sources for, evaluation of cesium-137, cobalt-60, and x, 22:522
spondylitis, effects on human lymphocyte chromosomes following, 21:26619
standards for dosage statements for, 21:22450
status of fast neutron and meson (π^-), review of, 25:52148 (A/CONF.49/P-508)
strontium-90 applicator for interstitial, of pituitary gland, design of, 21:26489
strontium-90 use as beta source for, of leukoplakia of oral cavity of man, 21:28546
sulfur-35 use in, of metastases in intestinal lymph nodes, 21:24464
surface irregularities in high energy electron, use of wax retraction for compensating effects of, 25:19066
survey of iodine-131 use in, during 1968, 24:25492
survey of use of radioisotopes for, in USA during 1966 to 1969, 24:23245 (BRH/DMRE-70-1)
synergistic effects of, with vincristine sulfate for treatment of glioblastoma multiforme, 21:26537
tantalum-182 wire for interstitial, 22:12890
technique for γ, development of convergent irradiation, 22:45636
techniques for electron, of deep tissue tumors, 22:51752
telecobalt, in man, use of closed circuit television to supervise, 23:45850
terminology for high-energy x-ray, 25:17257 (NIRS-9, pp 1-14)
time-dose relations in, historical development of concepts in, 24:29828
training courses in, for hospital residents in gynecology, 23:41477
training program for personnel in, 21:45736
training programs at Puerto Rico Nuclear Center, 22:23481(R) (PRNC-102)
treatment of injuries from, of Hodgkin's disease, 21:24469
treatment of pathological conditions resulting from, 21:22557
treatment of secondary glaucoma in leukemic patients, x, 21:22628
treatment planning and techniques in, in relation to radiation control, radiation effects, radiobiology, and safety hazards, review of current journal literature on, 23:43832
treatment planning for external- and interstitial-source, computer-based methods for dosimetry in, 22:31067
treatment planning for telecobalt, use of digital computers in, 24:39419 (NIRS-8, pp 53-61)
treatment plans for interstitial cervical carcinoma, comparison of radiation dose to medical personnel under two different, 25:42432
tumor, effects of chemical and physical agents on sensitization for, review of, 21:20272
tumor, effects of high oxygen pressure on, of rats, 21:24457
tumor, effects of oxygen abundance on, review of, 21:20280
use for abdominal tumors, 21:32687
use for angiofibroma at base of skull, 21:32688
use for cervical migraine, 21:32685
use for control of pain from bone metastases, use of strontium-85 to locate sites for, 21:20264
use for malignant lymphomas in man, review of, 23:886
use for metastatic lymph node neoplasms, 21:22723
use for neoplasms, bibliography on, 21:34679 (NP-16780(Vol.1)(Pts.2-3))
use for treatment of Hodgkin's disease, 21:22583
use for treatment of malignancies, development of edema of extremities following, 22:40922
use for treatment of neoplasms in lungs of man, review of developments in, 21:39456
use in combination with surgery for cervical carcinomas in Australia during 1953 to 1968, review of, 25:52171
use in combination with surgery, review of, 22:47551
use of 5-fluorouracil and telecobalt for, of neoplasms of the stomach, 21:10961
use of absorbers for decreasing beam energy during electron, 22:51696
use of betatrons as source of electrons and x rays for, 23:6533
use of californium-252 as interstitial source for fast neutron, 22:49375 (BNL-12409)
use of carbon-14-labeled tryptophan and radiofluorine-labeled 5-fluorotryptophan for, of carcinomas and metastases, 21:6556
use of cesium-137 teletherapy units for, comparison of, with cobalt-60 units, 22:2519(R) (COO-245-7)
use of cobalt-60 or cesium-137 seeds for, of uterine carcinoma, 21:6575
use of cobalt-60 teletherapy for, of carcinomas of uterus, 21:30834
use of colloidal gold-198 for, of primary ovarian neoplasms, 21:8858
use of colloidal phosphorus-32-labeled chromic phosphate for, of central nervous system, 21:10925
use of compensating clinoid filters in, of inclined surfaces, γ, 23:8046
use of computers for calculation of isodose charts for, 21:10893
use of computers for planning cobalt-60, 22:36264
use of dose fractionation for, 21:34703
use of dose fractionation in, of inoperable lung neoplasm, x, 22:2524
use of dose fractionation in, review of, 21:45827
use of dose rate effects in, model for, 23:50765
use of dose-normalization factor for standardization of, 22:31185
use of electromagnetic waves for, physical factors in, 22:49442
use of electron beams for, of human carcinomas, 22:51700
use of electron beams for, of skin diseases, complications from, 21:4827
use of electron beams for, problems of beam shaping and dose planning in, 23:6529
use of electron pencil beam scanning in, 23:6530
use of electrons for cancer, conference on, 23:6526
use of electrons for whole-body superficial, physical aspects of, 23:6531
use of electrons for, effects of tissue depth on, 22:51753
use of electrons from linear accelerator for, physical aspects of, 23:6532
use of Evans Blue and lasers for, of carcinomas of man, efficiency of, 22:2529
use of external orthovoltage x and intraoral radium mold for, of carcinoma of buccal mucosa of man, 22:15039
use of fast neutron beams for, calculation of scattered radiation dose to man from, 22:31124
use of fast neutrons for, of neoplasms effectiveness of, 21:20248
use of fast neutrons for, review of, 22:33939
use of gold-198 for, of Ehrlich ascites tumors in mice, 21:32701
use of gold-198 for, of ovarian carcinoma, evaluation of, 21:16399
use of gold-198 for, of persistent effusions of the knee joint of man, 21:16391
use of gold-198 implantation for, of neoplasm effusions in human beings, 21:18088
use of gold-198 in, for pituitary ablation, 21:16415
use of gold-198 in, for pituitary ablation, effects and safety of, 21:16394
use of heavy charged particle beams for, in deep tissues, 22:31177
use of heavy particles in, bibliography on, 21:34714
use of heavy particles in, review of, 21:3429
use of high energy electron beams for tumor, physical basis for, 23:6525
use of high energy electrons and x rays for, correlation of basic and clinical data for, 23:6543
use of high energy electrons for, of man, review of, 23:6534
use of high pressure oxygen combined with fast neutrons on x for, 21:22644
use of high-energy electrons for, 21:45747
use of high-voltage x radiation for, of advanced bladder carcinomas in man, 21:26512
use of hyperbaric oxygen in, determination of individual soaking time for, 23:41407
use of hyperbaric oxygen in, evaluation of facilities for, 23:41408
use of hyperbaric oxygen in, of tumors, 22:31191
use of hyperbaric oxygen in, review of, 21:1790
use of interstitial radioisotopes for, of liver neoplasms, 21:22587
use of intra-arterial yttrium-90 microspheres for, of tumors in man, 21:32713
use of intracavitary radon, for treatment of retinoblastoma in man, 21:8848
use of intralymphatic administration of radioisotopes for, of malignant melanomas, 21:22507
use of intratissue, of human brain tumors, 21:32683
use of iodine-131 for, of hyperthyroidism, 21:14701
use of iodine-131-labeled antibodies for, of neoplasms, 21:14698
use of iodine-131-labeled lipiodol for, of Hodgkin's disease, 21:4838
use of iodine-131-labeled PVP for, of hyperthyroidism, 21:45696
use of iridium-192 implants for internal γ, 22:43380
use of iridium-192 in, for pituitary ablation, effects and safety of, 21:16394
use of iridium-192 wire implants for, calculation of dose distribution for, 21:14660
use of isochronous cyclotron in, installation for, 24:4657
use of isotopes for, in Hungary, review of, 21:45706
use of isotopes in, review of, 21:45770
use of laser in, of human brain neoplasms, 21:1782
use of laser radiation for, of malignant tumors, review of, 22:43383
use of lasers for, in ophthalmology, 21:11048
use of lasers for, of human basal cell epithelioma, 21:8879
use of lasers for, of occluded arteries, 21:12938
use of lasers for, of tumors in hamsters and humans, 21:12918
use of lasers in, of arteriosclerosis, 21:16426
use of lasers in, of neoplasms, 21:16426
use of linear accelerator for, accident reports concerning overdose during, 21:12851
use of Linear Accelerator for, following methods for correction of asymmetrical x-ray beam, 22:31094
use of megavolt cobalt-60, for uterine carcinoma, 21:8869
use of megavolt electron beams in, 21:8875
use of megavoltage and orthovoltage x radiation for, after breast carcinoma surgery, incidence of neuropathy following, 21:12963
use of megavoltage, in hyperbaric oxygen, 21:26480
use of mesons (π^-) in, basic parameters in relation to, 24:7963 (UCRL-18806)
use of mesons for, design of facilities for, 22:49409
use of molded iridium-192 and radium implants for γ, review of, 22:45634
use of moving filters in, 21:3428
use of moving-strip technique for telecobalt, of metastasis in lungs, 21:18102 (TID-21707)
use of negative pi mesons for, of malignant neoplasms, 21:8889
use of negative pions for, advantages and possibilities of, 22:33838 (LA-DC-9402)
use of negative pions for, of deep-tissue neoplasms, advantages and possibilities of, 22:31125
use of negative pions in, review of, 23:932
use of neutron beams for, 21:22611
use of oxygenation with, of man, complications from, 22:36312
use of phosphorus-32 labeled chromium phosphates for implantation, of neoplasm effusions in human beings, 21:18088
use of phosphorus-32 labeled-lecithin-ethiodol for, of lymphoma of man, 22:8564
use of phosphorus-32, for control of pain associated with prostatic carcinoma metastases, 21:34718
use of phosphorus-32-labeled resin for, of malignant tumors in human beings, 21:12947
use of pituitary ablation for diabetic retinopathy, use of Bragg peak proton beams for, 21:26550
use of polychlorvinyl tube for protection of lacrimal canal during, of eye, 21:6561
use of postoperative supervoltage, for recurrent bladder carcinomas, 21:22499
use of postoperative, for cerebrum and cerebellum hemangioblastoma, 21:20267
use of preoperative, for malignant tumors in man, 22:38381
use of proton beams for, 21:12893(T) (UCRL-Trans-1333)
use of proton beams for, of brain neoplasms in mice, 21:6603
use of radiation dose fractionation for, of neoplasms sensitized by hyperbaric oxygen, 21:10927
use of radiocolloids in, in prevention of post-surgical recurrence of ovarian carcinoma, 21:8882
use of radioisotopes for interstitial γ, of brain neoplasms, 21:22546
use of radioisotopes for interstitial, of pituitary adenomas, 21:22546
use of radioisotopes for, during 1966, survey of, 23:29635
use of radioisotopes in, of cancer of head and neck area, review of, 21:16393
use of radium for localized, of uterine carcinomas, 21:8869

  use of radium implants for, of female genital carcinoma, measurement of gamma dose to adjacent tissues during, 21:14662
  use of radium, for treating cutaneous hemangiomas, 21:6583
  use of radon water for, design of building and equipment for, 21:12944
  use of rubber applicator for, of cervical carcinoma, incidence of injury from, 21:12993
  use of short-range, for skin cancer, 21:32690
  use of soft x-ray, for seborrheic warts, 21:16424
  use of sources with large anode areas in, analysis of, 23:6551
  use of strontium-90 in, of diseases of ear, nose, and throat, 21:10983
  use of transethmoidal implantation of pituitary with gold-198 or yttrium-90 for, of breast carcinoma, 21:32698
  use of tritiated derivatives of Synkavit for, of malignant tumors and reticulocytosis, 21:10966
  use of undecahydrododecaborate sulfhydryl anions in neutron capture, evaluation of, 22:51673(R) (NYO-3267-5)
  use of uv, for skin diseases, review of, 21:14757
  use of wedge filters for, of human neoplasms, clinical indications and limitations of, 22:43365
  use of x, for malignant lymphoma in human female, effects of, on structure of oral cavity and teeth development of offspring, 21:13055
  use of x, for sterility in human females, genetic effects of, 21:10942
  use of x, for treatment of Hodgkin's disease, effects of lead shielding of ovaries during, 21:12908
  use of yttrium-90 for transnasal implantation, in patients with advanced metastatic mammary carcinoma, 21:10990
  use of yttrium-90 for, of colon of dogs with hyperchloremic acidosis, 21:14676
  use of yttrium-90 implantations for, of neoplasm effusions in human beings, 21:18088
  use of yttrium-90 implantations in, of neoplasms of the pituitary gland, 21:10953
  use of yttrium-90 in, for pituitary ablation, 21:16415
  use of yttrium-90 in, for pituitary ablation, effects and safety of, 21:16391
  use of yttrium-90 pituitary implants for, of breast cancer following surgical hypophysectomy, 21:12900
  use of yttrium-90, for destruction of pituitary gland in human beings, complications of, 21:10962
  use of, as preoperative procedure for rectal carcinomas, performance of, 21:12905
  use of, combined with bone marrow transplants, in leukemia, 21:6578
  use of, for salivary gland neoplasms, 21:20276
  use of, for treating basal and squamous cell carcinomas of face, 21:12980
  use of, for treatment of actinomyces, 21:6554
  use of, for uterine conditions, incidence of uterine sarcoma following, review of, 21:12988
  use of, in preoperative treatment of mouse neoplasms, 21:10974
  use of, in treatment of bladder carcinoma, review on, 21:14703
  use of, in treatment of Yoshida sarcoma in rats, prevention of leukopenia induced by, by treatment with benzyl alcohol—terpene oil mixture, 21:8873
  use of, preferred techniques for treatment of cervical carcinoma, 21:6574
  uses of fast neutrons for, of tumors, advantages of, 21:14692
  uses of hyperbaric oxygen in, review of practical and theoretical bases of, 21:34686
  uses of iodine-131 in, of progressive malignant exophthalmos, 21:10991
  uses of laser irradiation in, of human and rabbit eyes, 21:8866
  uses of laser, for hamster neoplasms, 21:8878
  uses of laser, for human neoplasms, 21:8878
  uses of lasers in, review of, 21:8684
  uses of mathematics and statistics in, methods for, 21:36682
  uses of negative pion beams for, review of, 22:12891
  uses of phosphorus-32 labeled resin microspheres for, of rabbit neoplasms, 21:10960
  uses of radioisotopes for, conference on, 22:25931
  uses of radioisotopes in, review of, 22:12879
  uses of, review on, 23:35159
  using high energy electrons, symposium on, 22:51681
  uterine cancer, prognosis for, statistical analysis of use of sensitization and radiation response tests for, 21:16396
  uterine carcinoma, effects on nonspecific immunity, 21:4853
  uterine cervical carcinoma, cause of death during, 21:18089
  uterine neoplasms, combined use of gamma teletherapy and radium implants for, 21:16363
  xenon-133 use for, by implantation, evaluation of, 21:30829
  yttrium-90 implants for pituitary ablation in treatment of neoplasms, 21:22609
  yttrium-90 use for, at Cushing syndrome in man, 21:26529
  yttrium-90, for diabetic retinopathy, 21:22605
  yttrium-90-implant, for pituitary gland tumors, evaluation of, 22:31122
Radiotoxins
  see Toxins
Radishes (Raphanus)
  see Raphanus under Angiospermidae
Radishes (the commodity)
  see radishes under Vegetables
RADIUM
  see also Alkaline Earth Metals
  abundance ratio to uranium in minerals, β-γ method for determining, 22:30728 (JEN-167-SIG/1-5)
  abundance relative to radon in Russian rivers, 25:41929
  accumulation in bones of rats, radium-226 tracer study of, 23:38424
  activity in nonequilibrium state, gamma spectrometric measurement of, 25:57506
  activity of solutions of, design of alpha-scintillation chambers for counting, 22:16459
  alpha activity from, in coal and fly ash from Pyrmont Power Station, Sydney, Australia, 22:12448
  alpha decay of, principles of, 24:32007
  alpha emission by, effects of, on neoplasms in lungs of man, 22:28545
  alpha emission by, effects of, on sheep following injection, latent pathological, 22:38427(R) (ORO-659)
  alpha emission by, measurement in minerals to determine uranium migration rates, 22:33574
  applicator for, in nasopharyngeal cancer treatment, 21:406
  assay at nanoCurie levels in man by whole-body counting of low-energy photons, efficiency of, 22:51579
  atomic radius of, 23:9370
  body burdens of, in dial painters and therapy patients, effects of, on development of skeletal injuries, 21:16356
  book: Fundamentals of Metallurgy. Vol. 5. Minor, Noble, and Radioactive Metals. Transuranic Elements, 23:26986
  book: Guide to Uncommon Metals, 21:34854
  book: Radium Dosage: The Manchester System, 22:45550
  book: Uncommon Metals, 22:10981
  complexes with CDTA, DTPA, EDTA, EGTA, HEDTA, and NTA, stability constants for, 23:15859
  complexes with CDTA, DTPA, EDTA, EGTA, HEDTA, and NTA, separation of, by solvent extraction using TBP and TTA, 23:15859
  complexes with organic compounds, tables of thermodynamic stability constants for, 22:58 (UCRL-50200)
  compounds of physicochemical properties of, x-radiographic study of, 21:32171
  compresses of, human skin carcinoma development following daily use of, 21:11089
  concentration in barium chromates by synchronized precipitation, 21:25930
  containers for, detection and plugging of leaks in, 23:35814 (ACRH-31, pp 134-43)
  containers for, methods for radon leak testing of, 24:19314
  contamination in hospitals, handling of accidental, 23:14205
  contamination of Georgia hospitals by, survey of, 21:8840
  content and distribution in sediments of Catalan Continental Shelf, 25:48609
  content and distribution of, in Belorussian soils, 21:10476
  content in bodies of personnel in luminizing industries, 21:26433
  content in chernozem soils from Romania, 22:30690 (IFA-IS-49)
  content in deep-sea sediments, age estimation from, 24:22800
  content in dolomites in the Caucasus, 21:22032
  content in environmental samples, use of EDTA for determination of, 21:45250
  content in Estonian ground and surface waters, 22:25509
  content in ground waters in Rostov Province of Soviet Union, 21:36114
  content in ground waters of artesian basins of middle Asia, 22:18944
  content in ground waters of Bukhara—Karshin artesian basin, relations with deuterium content, 25:10698
  content in ground waters of Pripyat basin of Soviet Union, 22:27905
  content in ground waters, use as geochemical oil indicator, 22:12433
  content in human teeth, effects of content in foods on, 21:43378
  content in Japanese rivers, 22:2206
  content in lavas, 21:23847
  content in lavas, 21:45039
  content in midwest USA drinking water, 22:2208
  content in mineral waters in Rodnei Mountains, Rumania, 25:51628
  content in natural waters, gamma spectrometry method for measurement of, 25:48610
  content in ocean floor manganese nodules, 23:11666
  content in oceans, circulation and diffusion studies on, 23:43413(R) (CU-2663-10)
  content in petroleum-bearing waters in Soviet Union, 21:19762
  content in phosphate rocks, radiation hazard from, 22:21193
  content in Polish granites, 22:30702
  content in radon, use of silver-activated zinc sulfide scintillation detectors for determining, 21:26199
  content in rocks of Vosges Mountains in France, 23:17570
  content in rocks, effect on radon content in ground waters, 22:8211
  content in Romanian environment, method for measurement of, 25:41928
  content in soil, effects of, on tobacco yield, 21:12792
  content in stratified uranium deposits, location of ore boundaries from gamma measurements of, 25:54808
  content in surface layers of Indian Ocean sediments, 23:35354
  content in surface streams from uranium ore processing plant, effects of pH on, 22:25477
  content in surface streams from uranium ore processing plant, effects of inorganic salts on, 22:25478
  content in suspensions and water in Indian Ocean, 22:10406
  content in Swedish building materials, 22:12429 (NP-17230)
  content in thyroids of animals, naturally occurring, 21:39326(R) (ORO-1643-071)
  content in UK building materials, 25:47192
  content in underground water in Northwestern Asia, 21:10445
  content in upper layer of Caucasian soil, 21:12525
  content in US rivers, 1960 to 1961, 25:6424 (NP-18582)
  content in water and air, equations for MPC determination from, 21:24427
  content in water supplies, effects of, on content in human teeth, 21:43378
  content of blood and tissues in dial painting personnel 40 years following ingestion, method for determining, 24:21151
  content of bones of man, 22:2506(R) (NYO-3086-7)
  content of diet of human adolescents in Euratom countries, 23:7994 (EUR-3945)
  content of man 35 to 50 years following internal occupational or therapeutic exposure, 23:22426 (ANL-7531)
  content of man in relation to incidence of neoplasms, maximum permissible, 23:38799
  content of manure in Armenia, effects of content of animal feed on, 24:50803
  content of naturally-occurring, in bottom sediments and sea water from Black Sea and Sea of Azov during 1958 and 1959, 21:8474(T) (AEC-tr-6641, pp 10-13)
  content of plants of uraniferous area, 24:41742
  content of, comparison of amounts reaching populations via drinking water and foods, 21:3402 (NP-16260)
  content of, in Azov and Black Seas and estuaries, 21:4638
  corrosion resistance of nuclear materials containing, 22:31357
  crystal chemistry of, 23:9370
  crystal chemistry of, 22:2018(R) (BMwF-FBK-67-76)
  crystal structure of, 23:9370
  decay products of, effects of, on nitrifying bacteria, 21:9031
  decay products of, hazards to man from, 22:12779
  deposition in bone, carcinogenic effects of, 22:4619
  detection and measurement of, in bottom silts of oceans, 21:8473(T) (AEC-tr-6641, pp 7-9)
  detection of internal contamination by, lead-210 or polonium-210 determination in human urine for, 21:18005
  determination in barium and calcium chemical reagents by emanation method using scintillation flasks, 23:47397
  determination in barium sulfate by alpha counting, 23:28735
  determination in boreholes, performance of LSU-5K pulse analyzer for, 24:2523
  determination in deep-sea manganese nodules, 23:15811 (CU-3139-2, App.C)
  determination in deep-sea manganese nodules, radiochemical method for, 24:11451
  determination in deep-sea manganese nodules, radiochemical, 25:23528
  determination in mineral waters in Rumania, 23:6071
  determination in rock using alpha spectrometers, 21:1448
  determination in rocks by gamma spectrometry using lithium-drifted germanium detector, 23:26190
  determination in rocks by gamma spectroscopy, 24:36179
  determination in rocks by radiochemical and radiometric methods, 25:51391
  determination in standard rocks by radon counting, 24:18926
  determination in uraniferous ores, gamma spectrometric method for, 24:20907
  determination in uranium milling process samples, radiochemical, 24:48040
  determination in water and biological materials by liquid scintillation spectrometry, 25:51620
  determination in water by precipitation and alpha counting, 21:21887
  determination in water by precipitation method, 21:30352 (PHS-999-RH-27)
  determination in water by precipitation with zinc sulfide (silver) scintillation powder and counting, 23:35006
  determination of, in milk and milk products, 21:12888
  determination of, methods for, 21:14172
  determination of, procedures for geochemical, 22:48812 (CEA-R-3557)
  determination of, review on principles of radiometric, 24:9244
  diffusion in minerals, neutron activation method for determining, 22:33577
  disposal of radioactive wastes of, 23:45493 (PB-184096)
  distribution and movement in morainal soils of Bench Valley, California, gamma spectrometric studies on, 24:2308
  distribution between crystalline and fused calcium nitrate, coefficient of, 23:28771(T) (AD-682879)
  distribution between solid and liquid phases in synchronized precipitation with barium iodate or oxalate, 22:40096
  distribution in calcium hydroxyapatite precipitates, 25:21107
  distrioution in Indian—Antarctic Ocean south of Australia, (E), 24:46378
  distribution in mixed crystals of barium chromate—radium chromate, synchronized precipitation studies on, 21:25930
  distribution in Pacific Ocean, vertical, 22:42895 (CU-2663-9, App.E)
  distribution in sea waters, correlation of barium distribution to, 21:2952
  distribution in skeleton of man, 21:8846 (MIT-952-3, pp 1-201)
  distribution over Indian Ocean floor, (E), 22:25553
  dose distribution around sealed linear sources of, electronic calculations for, 25:54923
  dose of, to population of alpine foothills, 21:16362
  dose to vocal carcinomas, determination of contact γ, 23:24619
  dosimetry in man, use of biochemical analysis of urine for, 23:7996 (LA-DC-9774)

dosimetry in medical personnel, computer method for analysis of, 21:26454
dosimetry of implants of, in bladder and rectum, use of scintillation counter for, 21:36607
dosimetry of needles of, for use in interstitial therapy, computer program for, 23:29525
dosimetry of, calculation of, 21:45650
dosimetry of, computer program for, 21:43386
dosimetry of, evaluation of physical data for, 25:26769
dosimetry of, in ureters by insertion of glass dosimeters, 21:10906
dosimetry of, in ureters by insertion of glass dosimeters, 21:10906
dosimetry of, use of thermoluminescent dosimeters for γ, 21:43395
effectiveness for cancer therapy, review of research on, 25:49254
effectiveness for interstitial therapy in comparison to gold-198, 25:13526
effectiveness for therapy of genital carcinomas, in comparison with protons and x radiation, 24:48642
effectiveness for therapy of human cervical carcinomas, effects of tumor radiosensitivity on, 25:44868
effectiveness for therapy of human uterine carcinomas following hysterectomy, 25:32513
effectiveness for therapy of human vaginal carcinoma, 25:32512
effectiveness for therapy of laryngeal carcinomas, 25: 29598
effectiveness for therapy of squamous epithelial cancer of mouth in comparison with ametohepazon, beta particles, gamma radiation, and 5-fluorouracil, 25: 55345
effectiveness in therapy of human skin cancer in comparison to cesium-137, γ, 24:29826
effectiveness of intracavitary, for therapy of uterine cervical carcinomas, 25:58070
effects combined with external radiotherapy on human cervical carcinomas, 25:21786
effects of therapy with, on sialic acid content in blood serum of uterine cancer patients, 21:6573
effects of, combined with surgery on sarcomas of soft tissues, 21:20238
effects of, on development of carcinogenesis, 21:12979
effects of, on development of teeth following therapy for glioma, 21:11044
effects of, on genital carcinomas in females, effects of corticosteroids on, 21:6580
effects of, on induction of bone sarcomas in dial painter, 21:10943
effects of, on intraocular pressure following therapy for hypophyseal adenomas, 21:11065
effects of, on large intestines following radiotherapy of uterine cervical carcinoma, 21:11105
effects of, on leukopenia treated with dry leukocyte mass, 21:3426
effects of, on morphology of ovarian cells of mice, 21: 13028
effects of, used in gynecologic implant therapy on blood circulation, 21:16451
effects on animals, carcinogenic, 24:34633
effects on ano-rectal carcinomas, therapeutic, 21:45701
effects on bladder, intestine, and parametria following therapy of cervical cancer, 22:49423
effects on bones and bone marrow in personnel, neoplastic, 25:13593
effects on bones, delayed pathological, 21:22560
effects on cancer of mouth in man, methods for protection of healthy tissues during therapeutic, 22: 49364
effects on carcinomas of human cervix in relation to biochemical activity of esterases, γ, 24:2758
effects on cartilage following therapy for pharyngeal cancer in man, 24:42022
effects on cervical cancer in man, development of hydronephrosis following, 22:47597
effects on cervical carcinomas in man, complications following, 22:15027
effects on chromosomes in carcinoma cells, 21:16317
effects on chromosomes in human leukocytes following interstitial tumor therapy, aberrant, 24:14608
effects on chromosomes of medical personnel, aberrant, 22:45475
effects on cobalt-60 γ- and x-radiosensitivity of cervical carcinomas in man, 22:15028
effects on count and fragility of thrombocytes in human blood, γ, 23:9991
effects on count of basophils in man during therapy of uterine cancer in relation to count of mast cells in tumor, 23:29871
effects on development of osteogenic sarcomas in man following childhood therapy for malignant retinoblastomas, combined x and, 25:29702
effects on femur during therapy of gynecological tumors, 21:6691
effects on gynecologic cancer, dose to uterus following therapeutic γ, 23:20228
effects on human bladder and uterus following use for therapy of uterine carcinomas, γ, 23:35929
effects on human bones following therapy of gynecological tumors, diagnosis and treatment of necrotic, 23:38829
effects on human bowel and rectum following therapy of uterine and cervical carcinomas, 24:51090
effects on human cardiovascular system during therapy of genital neoplasms, α and γ, 24:9954
effects on human cervical cancer cells, measurement of DNA content following α and γ, 24:910
effects on human cervical carcinomas, ribonuclease activity in urine and vaginal fluid following, 25:42683
effects on human cheek carcinomas, isodose curves for therapeutic, 23:8034
effects on human chromosomes, effects of therapeutic exposure on aberrant, 22:38244
effects on human colon following therapy of uterine carcinomas, 24:9953
effects on human epithelium following therapy for cervical tumors in relation to recurrance incidence, cytological and histological studies on, 25:58140
effects on human gastrointestinal tract following therapy of cervical carcinomas, 23:38742
effects on human lungs following use for therapy of gynecological tumors, pathological, 24:27709
effects on human lymphatic system following therapy for cervical cancer in comparison to surgery, 22:49627
effects on human small intestine following therapy, effects of dose on pathohistological, 24:29891
effects on human ureter following therapy of cervical carcinomas, 23:29873
effects on human vagina following therapy of gynecological carcinomas, γ, 23:26949
effects on ilium and pelvic ring following use for therapy of gynecological carcinomas, necrotic, 23:20409
effects on incidence of proctitis in man following interstitial therapy of gynecological neoplasms, γ, 23: 35826
effects on incidence of rectal lesions following uterine cancer therapy, 22:2550
effects on induction of bone fracture, 21:22612
effects on intestine following use for therapy of carcinoma of endometrium, 22:2551
effects on intestines in man following diagnosis or therapy of abdomen or pelvis, 24:36842
effects on lower lip following therapy, use of plastic surgery for repair of carcinogenic, 21:36677
effects on lungs of uranium miners, carcinogenic, 23: 9965
effects on lymphocyte chromosome morphology following therapy of genital carcinomas, combined effects of x radiation on, 21:3401
effects on man, 23:41468
effects on man during therapy, carcinogenic, 24:34734
effects on man following ingestion or injection in relation to maximum permissible levels and total body burden, neoplastic, 23:38799
effects on man following intracavitary therapy of carcinomas of cervix, 23:29681
effects on man following pelvic carcinoma therapy, 25: 52251
effects on man following therapy for cervical carcinomas, carcinogenic, 24:42017
effects on man following use for therapy, carcinogenic, 23:50911
effects on man, calculation of dose for intracavitary therapeutic, 23:29530
effects on man, hazards of leukemia from, 22:12853
effects on man, review of early history of pathological, 22:31254
effects on oral tissues following interstitial therapy of tongue carcinomas, necrotic, 25:52240
effects on patients with aplastic anemia of Fanconi type, chronic, 25:27054
effects on pH in man following therapy for cancer of the genital tract, 24:25389
effects on plantar warts, development of cicatrices and hyperkeratosis following therapeutic, 23:31865
effects on rectum and stomach of man following therapy for peptic ulcers, pathological, 23:45928
effects on rectum and stomach of man following therapy for pelvic bone metastases, pathological, 23:45928
effects on reticulosarcomas of bones in man, effects of endoxan on, 21:39447
effects on serum ornithine carbamoyl transferase activity in man following use for implant therapy of cervix, 23: 38477
effects on skin, ointment for prophylaxis and treatment of, 21:20240
effects on solubility of aerosols, 22:10766
effects on survival of hamster cells, RBE of, 25:55207 (NYO-2740-8, pp 220-59)
effects on tumors in man, effects of dose rate on postoperative therapeutic, 23:9987
effects on uranium distribution in pitchblende, 22:33577
effects on urinary excretion of deoxyribosides and nucleases following therapy of cervical carcinoma, 22: 28325
effects on urinary tract following therapy of cervical carcinomas, 23:940
effects on uterus of rats, carcinogenic, 25:26827
effects on vagina following implant therapy for gynecological neoplasms, γ, 23:29831
effects on vaginal cervix of human females following therapy, effects of cigarette smoking on necrotic, 24: 44534
electromigration behavior of, in CDTA and EDTA, 25: 57520 (JINR-E6-5952)
enclosure of applicators of, for therapy, use of malleable silicone for, 22:45652
excretion from human body, rate of, 21:8846 (MIT-952-3, pp 1-201)
fixation by zeolites, 22:37834 (EUR-3452(Vol.2))
gamma emission by implants of, carcinogenic effects of, on large intestines of man, 22:28639
gamma emission by, absorption of, in water phantoms, 22:512
gamma emission by, detection and rectal measurement of, during implant therapy, 22:51610
gamma emission by, effects of, on anal cancer, development of complications following therapeutic, 22:51974
gamma emission by, effects of, on carcinomas in uterus of man, development of bladder malfunctions following therapeutic, 22:28569
gamma emission by, effects of, on carcinomas of vagina in man, therapeutic, 22:40737
gamma emission by, effects of, on frequency of chromosome aberrations in leukocytes of luminous dial painters, 22:28438
gamma emission by, effects of, on human skin, effects of age and sex on, 22:47614
gamma emission by, effects of, on intestines of man, 22: 51887
gamma emission by, effects of, on man, latent carcinogenic, 22:51825
gamma emission by, effects of, on nervous system of man following therapy, 22:51795
gamma emission by, effects of, on sheep following injection, latent pathological, 22:38427(R) (ORO-659)
gamma emission by, effects of, on vaginal carcinomas in man, development of bladder injuries during therapeutic, 22:28563
gamma emission by, protection of pregnant medical personnel against, 22:25841
gamma emission by, use of, for therapy of uterine carcinomas in man, 22:28583
gamma emission from, effects of, on growth rate of HeLa cells and roots of Vicia faba, 22:40874
hazards from medical use of, 21:30811
hazards from rupture of sealed sources of, 21:20214
hazards from, used as therapeutic compresses in Germany, 21:14761
hazards in medical and industrial use, 21:28487
hazards to man from medical use, survey in Georgia of, 23:41331 (PHS-999-RH-34)
hazards to medical personnel during use of, 22:23573
hazards to personnel painting dials, 22:23545
heat treatment of nuclear materials containing, 22:31357
hyperfine magnetic field in cobalt host lattice, (E), 25: 25768
hyperfine magnetic field in iron host lattice, (E), 25: 25768
hyperfine magnetic field in nickel host lattice, (E), 25: 25768
ingestion by personnel working with radium vita emanator, 23:48031
insertion in man for radiotherapy of endometrial carcinomas, design and operation of fluoroscopic x-ray equipment for, 23:20310
insertion of needles of, in man, method for, 22:546
ionization potentials for, calculation using Hartree—Fock wave functions, 23:41941
irradiation in BR-2 for producing actinium-227, development of equipment for, 25:37543 (NP-18809, pp 6.1-9)
leak testing encapsulated applicators of, (E), 22:6814
leak testing of sealed sources of, use of ionization chamber to detect radon for, 23:14012
leak testing sealed sources of, methods for, 22:51182
leaks from sealed sources of, method for detection of, 21:20208
metabolism in man, power function for calculation of retention time following multiple injections, 22:51368
metabolism in rats, radium-226 tracer study of kinetics of, 23:38424
metallurgical properties and potentialities of, review, 21: 9180
metallurgical properties of nuclear materials containing, 22:31357
monitoring in Adriatic and Ligurian Seas during 1961 to 1968, 24:34210
monitoring in plants, 24:34305
monitoring of sealed sources of, for leaks, 24:17042
occurrence in peat, effects of ionic bonds and alkaline earth elements on form of, 22:33566
occurrence of maxillary necrosis in lower jaw of man induced by radiotherapy with, use of surgery to repair, 21:8874
performance as gamma source for radiometric rock analysis, 25:18524
physical properties of nuclear materials containing, 22: 31357
poisoning by, progress report on, 21:8792(R) (MIT-952-3)
precipitation with barium chromate, distribution coefficients for, 21:25929
precipitation with barium iodate or oxalate, 22:40096
precipitation with bone mineral analog calcium hydroxylapatite by isomorphous cocrystallization, 25: 57418
preparation by reduction of oxide, 23:9370
preparation of radiation targets of, 21:6779
preparation of targets of, by vacuum evaporation, 25: 59638 (CONF-711002-, pp 116-21)
production of, decontamination of facilities for, administrative aspects of, 21:14641
protection against sealed sources of, in Thailand during 1969, survey of methods for, 25:16198(R) (RPS-AR-3)
protection of personnel handling radioapplicators of, 21: 45655
purity of, use of absorber method for inspection of, 21: 45437
radiation contamination following loss or rupture of sealed therapeutic sources of, review of incidence of, 23:9934 (MORP-68-7)
radiation dose from implants of, to lymph system of man during therapy of gynecologic tumors, computer calculation of γ, 22:40676
radiation dose from internally deposited, use of polonium-210 content of urine for determination of, 24:34328
radiation dose from, received by medical personnel during insertion of applicators of, 21:22442
radiation dose to medical personnel inserting applicators of, γ, 21:28486
radiation effects from therapeutic implants of, on pathology of bladder, γ, 21:22566
radiation hazards from therapeutic use of, duties of safety officers in relation to, 22:51641
radioactivity buildup in freshly separated, 21:45184
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
radioinduced human eye sarcoma following therapy with, 21:6686
radiotherapy using, γ dosimetry in, 21:14662
radiotherapy with, effects on serum content of haptoglobins in cervical carcinoma patients, 21:16301
radon leakage from sealed containers, method for testing for, 24:418

radon leakage from therapeutic sources of, technique for detection of, 22:2515
radon leakage rate from sources of, operation and calibration of low-level scintillation detectors for measuring, 23:38264
reactions with barium, calcium, lead, and strontium nitrates, formation of mixed crystals by, 23:28771(T) (AD-682879)
regulatory control of, in USA during 1969, 25:58028 (BRH/DMRE-71-4)
release from sealed sources in U.S.A. since 1963, 24:7834
removal from area of dial-stripping operations on aircraft instruments, 23:43749 (PHS-999-RH-36)
separation from acetate solutions of actinides using sodium amalgam, effects of oxidizing agents on, 23:17529
separation from actinium and thorium using nonaqueous reagents, 23:21777(R) (MLM-1531)
separation from actinium and/or thorium and radioactive decay products by halogenation and sublimation, 25:2322(P)
separation from actinium by ion exchange, 23:214 (NP-17579, pp II.1-5)
separation from actinium by reversed-phase extraction chromatography, 22:14576
separation from actinium by solvent extraction, 21:36102
separation from actinium by solvent extraction using 4-benzoyl-3-methyl-1-phenyl-2-pyrazolin-5-one, 24:31235
separation from actinium, bismuth, polonium, and thorium, electrochromatographic, 24:9244
separation from actinium-227 by ion exchange, 23:9534
separation from actinum, thorium, and uranium by ion exchange, 22:42019(R) (MLM-1494)
separation from aqueous solutions by solvent extraction as β-diketonate using tributyl phosphate, 24:9475
separation from barium by chromatography using microcrystalline cellulose columns, 23:28957
separation from barium by column chromatography on microcrystalline cellulose, 23:28993
separation from barium by ion exchange using 2-methyllactic acid as eluting agent, 22:47233
separation from barium by method of ionic mobility, 23:43392
separation from colloidal thorium hydroxide by recoil techniques, 22:48895 (CEA-R-3493)
separation from fresh water and seawater by sorption on barium sulfate-impregnated aluminum oxide bed, 23:49727 (BNWL-1051(Pt.2), pp 23-7)
separation from irradiated thorium target, chromatographic, 22:33516
separation from lead by ion exchange, 23:382
separation from liquid radioactive effluents by ion exchange on zeolite containing alkali metal or alkaline earth metal ions, 25:2340(P)
separation from natural radionuclides by paper electromigration, 24:5611
separation from other metals, development of methods for, 23:35264
separation from process waste by solvent cation exchange, 22:33208(R) (MLM-1456)
separation from protactinium-231 and its other daughter nuclides, ion exchange process for, 24:5732
separation from thorium by residue adsorption, 22:18738(R) (MLM-1417)
separation from thorium nitrate by solvent extraction using TBP and chromatography, 23:9504 (CEA-R-3582)
separation from uranium mill effluents, 21:25940
separation from uranium ores by coprecipitation with barium and fatty acid, 22:23124(P)
separation of protactinium from, by various methods, 21:8422
separation of thorium and actinium from, by solvent extraction, 23:45310(P)
separation of trace amounts of, by solvent extraction using 8-quinolinol in chloroform, 21:43038
separation of, from aqueous solutions by solvent extraction using 8-quinolinol and its halo derivatives, 21:10417 (KFK-432)
separation of, from iron, protactinium, thorium, and uranium by ion exchange, 21:15987
separation of, from urine or water by ion exchange, 21:8204
shielding against operating room, design of mobile unit for, 25:24189
shipping of, design of reusable container for, 22:47277
shipping of, losses incurred during, 23:560 (CONF-681001-, pp 160-86)
sorption by bone tissue, mechanisms of, 24:575
sorption by peat, 22:8209
sorption by plants, 24:41785
sorption from natural waters by peat, 23:17525
sources of contamination by, in Alabama, 21:24441
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
standards of, calibrated, 21:43012
sterilization of sources of, effects of peroxyacetic acid on, 22:40980
storage for use in therapy, design of lead safe with leak detector for, 23:50780
storage of sealed therapeutic sources of, 22:51614
supplies in Australia, care and maintenance of, 22:49324(R) (NP-17266)
testing of sources of, methods for integrity, 23:43468(R) (PB-184095)
toxicity in sheep in comparison to strontium-90, 22:40829 (ORO-657, pp 18-34)
toxicity in sheep, pathology report on, 23:10052 (ORO-661, pp 29-46)
toxicity of, in sheep, 21:20321(R) (ORO-653)
toxicity to personnel, 25:13593
transport by muriform rodents, ecological study of, 24:41787
transport in Antarctic Ocean south of Australia, mechanisms of, (E/T), 25:8380
transport in natural waters, role of aquatic plants in, 25:2547
transport of, across intestinal wall of humans, 21:8672 (MIT-952-3, pp 202-317)
uptake by human skeleton, 22:38491
use as intrauterine implant, positioning and exposure problems in, 21:22491
use as source for production of radon-containing water, 23:50909
use for carcinoma therapy in human mouth, incidence of dental fistulas and osteomyelitis following, 23:38869
use for contact therapy of angiomas in human children, 22:49453
use for contact therapy of carcinomas of human nasopharynx or paranasal sinuses, γ, 23:50787
use for contact therapy of mouth neoplasms, shielding of healthy tissues during, 21:26437
use for efficiency calibration of coaxial lithium-drifted germanium detectors, 24:2473
use for implant therapy for human gynecological tumors in comparison with gold-198 seeds, 23:31873
use for implant therapy of human anal carcinomas, 22:51845
use for implant therapy, evaluation of applicators and methods for, 25:19076
use for interstitial therapy, 22:535
use for interstitial therapy of human cervical neoplasms, γ, 23:33797
use for interstitial therapy of human facial neoplasms, 23:35819
use for interstitial therapy of human gynecological neoplasms, development of proctitis following γ, 23:35826
use for intracavitary therapy of endometrial carcinomas in man, dose rate and treatment pattern for, 23:50759
use for intracavitary therapy of female genital carcinomas, peritherapeutic dose and safety considerations during γ, 25:8729 (SZS-6/70 (pp 1-8))
use for intrauterine radiotherapy of gynecological tumors, prevention of radiation injuries during, 21:26450
use for laryngeal cancer treatment by implant and teletherapy methods, 21:22493
use for preoperative treatment of cervical neoplasms in mice, 21:28571
use for removal of facial hair, development of carcinomas, dermatitis, epitheliomas, and osteoradionecrosis following, 22:31160
use for scanning in diagnostic and metabolic studies, development of computer programs for, 25:8716
use for therapy for cancer of cervix in man, arrangement and dosimetry of source for intracavity, 22:28547
use for therapy for human cervical carcinomas, protective effects of antibiotics against development of fever during, 24:809
use for therapy in children, long-term effects of, on development of teeth, α and γ, 24:886
use for therapy of adenoid cystic carcinomas in man, combined effects of surgery on, 22:8587
use for therapy of angiomas in comparison to contact beta radiation, 24:6092
use for therapy of benign and malignant tumors in human children, development of deformed and shortened bones following, 22:31151
use for therapy of benign uterine hemorrhage in man, development of uterine carcinomas following, 23:45927
use for therapy of cancer of female reproductive organs, effects of bone marrow grafting on leukopenia following, 23:29683
use for therapy of cancer of human head and neck, 24:23287
use for therapy of cancer of human lips, efficiency of low-intensity needles for interstitial, 23:5034
use for therapy of carcinoma of lower lip, comparison of results using superficial applicator or interstitial needles, 21:22568
use for therapy of carcinomas in mouth of man, effects of dose on development of mucositis and ulcers following, 22:40803
use for therapy of carcinomas of cervix and endometrium in man, development of bowel injuries following, 22:51766
use for therapy of carcinomas of ovaries and uterus of man, effects of, on bladder, rectum, and skin, 22:31163
use for therapy of carcinomas of the genitals of man, effects of, on activity of serum enzymes, 22:31103
use for therapy of carconomas in human cervix, effects of dose on development of complications following, 22:47599
use for therapy of cerebral gliomas in combination with surgery, 23:41385
use for therapy of cervical and vaginal carcinomas, effects of, on blood coagulation, 22:45465
use for therapy of cervical cancer in man, complications following intracavitary γ, 23:50774
use for therapy of cervical cancer in man, incidence of leukemia following, 22:33858
use for therapy of cervical cancer in uterus of man, effects of, in comparison to cobalt-60 γ and x, 23:8042
use for therapy of cervical carcinoma of man, development of fistulas and ulcers following γ, 23:50900
use for therapy of cervical carcinoma, development of proctosigmoid injuries following, 22:45619
use for therapy of cervical carcinomas in man combined with extracorporeal x irradiation of blood, 24:824
use for therapy of cervical carcinomas in man, development of bladder complications following postoperative, 22:31133
use for therapy of cervical carcinomas in man, dosimetry for, 23:38707
use for therapy of cervical carcinomas in man, evaluation of γ, 23:29692
use for therapy of cervical neoplasms, occurrence of injuries to intestine following, 21:26657
use for therapy of endometrial carcinomas in man, combined effects of surgery on, 24:17111
use for therapy of endometrial carcinomas, development of fistulas following, 22:6887
use for therapy of gynecological carcinomas in man, development of enteritis and proctitis following, 23:50791
use for therapy of gynecological diseases of man, protection of personnel during, 22:28461
use for therapy of gynecological tumors of man, care of patients following, 22:45599
use for therapy of human bladder tumors, development of bladder and urinary tract complications following intracavitary, 22:31152
use for therapy of human cervical cancer, combined effects of linear accelerator bremsstrahlung and γ, 24:23282
use for therapy of human cervical carcinoma in comparison to cobalt-60 γ radiation and x rays, 23:38742
use for therapy of human cervical carcinoma, presurgical, 24:44620
use for therapy of human cervical carcinomas, combined effects of surgery on development of injuries following, 23:939
use for therapy of human cervical carcinomas, development of bone, excretory, intestinal, and vaginal diseases and malfunctions following interstitial γ, 23:38835
use for therapy of human cervical carcinomas, effects of lymphnodectomy on performance of, 23:863
use for therapy of human cervix carcinomas in combination with γ and x radiations, statistical evaluation of, 25:13531
use for therapy of human oral lymph tumors, effects of, on gold-198 scintigrams, 24:27628
use for therapy of lip neoplasms, 21:22439
use for therapy of lung neoplasms in man, effect on variations in bacterial populations in bronchial washings during therapy of lung neoplasms, 23:43923
use for therapy of lymphatic metastases in human neck, method for interstitial, 24:4663
use for therapy of mammary cancer, 21:43465
use for therapy of neck tumors in man, development of histopathological lesions in thyroid gland following, 23:41475
use for therapy of neoplasms in man, chemical protection of skin during, 22:28549
use for therapy of oral cancer, design and effectiveness of protective apparatus for, 23:2893
use for therapy of oral neoplasms in man, 22:36196
use for therapy of palatal neoplasm, design of applicator for, 21:26488
use for therapy of pelvic cancer, effects of, on intestine, 21:43494
use for therapy of recurrent cervical carcinomas, 21:22492
use for therapy of tumors, shielding problems during, 22:47540
use for therapy of uterine carcinomas, design of colpostat for use in, 22:28590
use for therapy of vaginal carcinoma, development of complications following, 22:6888
use for therapy of vascular malformation of human skin, 22:51825
use for therapy of vocal cord neoplasms, method for dosimetry during, 21:26543
use for therapy of, in man ovarian carcinomas of development of fistulas following therapeutic γ, 23:38868
use for therapy, conversion formula for dose fractionation in, 23:43769
use for therapy, radiation protection procedures for, 21:22441
use for treatment of skin diseases, 21:30860
use in a new applicator for intrauterine therapy, 21:26524
use in equilibrium with its decay products, for energy and total peak efficiency calibration of germanium gamma spectrometers, 22:36096
use in hospitals and research centers in Australia, 21:14359(R) (NP-16386)
use in luminous paints, hazards to man from, 25:32435
use in radiotherapy of oral cancers, radioinduced mandibular necrosis from, 21:18164
use in therapy of cervical carcinoma, 21:6574
use in therapy of hypophyseal tumors, 21:41465
use in therapy of malignant tumors, evaluation of dose schedule for, 22:43373
use in therapy of man in hyperbaric oxygen chamber, method for, 23:29660
use in therapy, development of new techniques for, 21:24496
use of γ radiation from, in combination with x rays for superficial therapy of skin cancers, 21:26549
use of implanted, in combination with ultrahard x rays for therapy of human gynecologic neoplasms, method for, 25:21796
use of implants of for therapy of gynecological tumors, effects of dose fractionation on development of urinary tract injuries following, 23:33891
use of implants of, for radiotherapy of uterine neoplasms, 21:16363
use of implants of, for therapy of mouth carcinoma, late pathological effects of, 21:18104
use of implants of, for treatment of gynecological neoplasms, dosimetry during, 21:30812
use of mold of, for intraoral radiotherapy of cancer in man, 22:15039
use of molded implants of, for therapy, review of, 22:45634
use of monel-filtered, in applicators for treatment of uterine bleeding, 21:6577
use of, for calibrating photographic film used for dosimetry in radiotherapy, 21:12865

  use of, for intracavitary radiotherapy of neoplasms, 21:12891 (BNL-9598)
  use of, for localized γ treatment of uterine carcinomas, 21:8869
  use of, for therapy of cervical carcinomas, development and treatment of radiation sickness following, 21:10946
  use of, for therapy of cutaneous hemangiomas, evaluation of, 21:6583
  use of, for therapy of prostatic carcinomas, evaluation of, 21:6582
  use of, for treating maxillary cancer, design of applicator for, 21:14685
  use of, in combination with lymph node surgery and x rays for treating cervical carcinomas, 21:10935
  use of, in radiotherapy of cervical carcinomas, effects of, on vaginal cells, 21:12987
  use of, in radiotherapy of female genital carcinoma, 21:13026
  use of, in radiotherapy of gynecologic neoplasms, incidence of intestinal injuries following, 21:13003
  use of, in therapy of uterine carcinoma, radionecrosis resulting from, 21:1803
  use of, in therapy, correction coefficients for use in preparing isodose charts for, 21:8892
  use of, in therapy, prophylaxis of radiation injuries to intestine and urinary system from, 21:11052
  use of, regulations in U. S. for, 21:20214
  use of, with beryllium as neutron source, 21:3411
  use with ionization chamber to determine methane content in atmospheres of mines, 21:16215
  x-ray emission from decay of K-shell vacancies in, relative rates of, (E), 25:16786
RADIUM BROMIDES
  crystal structure of, 22:25326 (NP-17364)
  crystal structure of, 22:37761
  preparation of, 22:37761
  preparation of, 22:25326 (NP-17364)
  removal of radium-226, in aqueous solutions from radioisotope storage facility following accidental contamination, 21:8829
RADIUM CARBONATES
  crystal structure of, 22:25326 (NP-17364)
  preparation of, 22:25326 (NP-17364)
RADIUM CERATES
  crystal structure of, 22:25326 (NP-17364)
  preparation of, 22:25326 (NP-17364)
RADIUM CHLORIDES
  crystal structure of, 22:37761
  crystal structure of, 22:25326 (NP-17364)
  oxidation of radium-226-labeled, separation of radon from, 22:33523
  preparation of, 22:37761
  preparation of, 22:25326 (NP-17364)
  volatilization in tube with temperature gradient, 24:25059
RADIUM CHROMATES
  preparation and properties of, 23:6115
RADIUM FLUORIDES
  crystal structure of, 22:25326 (NP-17364)
  crystal structure of, 22:37761
  preparation of, 22:37761
  preparation of, 22:25326 (NP-17364)
RADIUM FLUOROBERYLLATES
  crystal structure of, 22:25326 (NP-17364)
  preparation of, 22:25326 (NP-17364)
RADIUM IODIDES
  crystal structure of, 22:37761
  crystal structure of, 22:25326 (NP-17364)
  preparation of, 22:37761
  preparation of, 22:25326 (NP-17364)
RADIUM IONS
  radii in fluorides and oxides, 24:188
RADIUM ISOTOPES
  alpha decay of, alpha energies, half-lives, and branching ratios for, 21:44670 (UCRL-17723)
  alpha spectra of neutron-deficient, (E), 21:44694
  book: The Physics of Radiology, 24:46646
  content in Romanian mineral waters, effects of rock structure on, 22:27896 (IFA-IS-44)
  content of interstate carrier water supplies during 1967 to 1969, 25:21691
  content of wastes from reactor fuel operations, 23:2829
  determination in water, review on methods for, 23:26176
  determination of α-emitting, in water by precipitation and α counting, ASTM method for, 25:28999
  distribution in soils, waters, and plants of Indian monazite areas, 22:6440
  distribution of naturally-occurring, in environment of man, 21:26391
  dosimetry in bones of man, factors affecting, 22:10761 (MIT-952-4, pp 132-201)
  emissions of, effects of, on biological materials, 22:23667
  energy levels of, properties of octupole, 25:15205
  geochemistry in Azov and Black Seas, 21:22061
  metabolism in bone, effects of hydroxy apatite on, 22:45459
  production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
  radioactivity buildup in freshly separated, 21:45184
  radioactivity standards of, users' guides for, 25:29174
  retention in animals and man, use of whole-body counters for measurement of, 23:50486
  toxicity in man, research at MIT on, 25:24426(R) (MIT-952-7)
  use for therapy of human diseases, incidence of α and γ radioinduced osteosarcomas following, 25:16365
RADIUM ISOTOPES Ra-206
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
RADIUM ISOTOPES Ra-207
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
  energy levels and properties of, nuclear data sheets for, 25:28378
RADIUM ISOTOPES Ra-208
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
  energy levels and properties of, nuclear data tables for, 25:28375
RADIUM ISOTOPES Ra-209
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
  energy levels and properties of, nuclear data sheets for, 25:28376
RADIUM ISOTOPES Ra-210
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
  nuclear properties of, Nuclear Data Sheets for, (E), 25:39017
RADIUM ISOTOPES Ra-211
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
  energy levels and properties of, nuclear data sheets for, 25:28377
  energy levels of, spin—parity assignments for, (E), 23:15439
RADIUM ISOTOPES Ra-212
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
RADIUM ISOTOPES Ra-213
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
RADIUM ISOTOPES Ra-214
  alpha decay of, α energies and half-life for, (E), 23:13274
  alpha decay of, α energy and half-life for, (E), 22:9854 (JINR-P7-3613)
RADIUM ISOTOPES Ra-215
  alpha decay of, α energies and half-life for, (E), 23:21332(R) (ORO-3820-1)
  alpha decay of, α spectra and half-life for, (E), 23:15439
  alpha decay of, α spectra from, (E), 25:7868
RADIUM ISOTOPES Ra-217
  alpha decay of, α energies and half-life for, (E), 23:21332(R) (ORO-3820-1)
  alpha decay of, half-life for, (E), 24:26600(R) (ORO-3820-3)
  yields from alpha decay of thorium-221, 25:15011
RADIUM ISOTOPES Ra-218
  yields from alpha decay of thorium-222, 25:15011
RADIUM ISOTOPES Ra-219
  alpha decay of, alpha energy from, (E), 24:6943
RADIUM ISOTOPES Ra-220
  excretion by thorium dioxide patients, 23:20302
  gamma radiation from, scattering on land and water, 21:816
  half life, (E), 21:5557
RADIUM ISOTOPES Ra-222
  alpha decay of, measurement of absolute gamma intensities for, 24:5432
  energy level at 50 keV, g-factor for, (E), 25:17903
  energy levels from thorium-226 decay, 23:40061
  energy levels from thorium-226 decay, (E), 23:4003 (UCRL-18313)
  energy levels from thorium-226 decay, (E), 24:13887
  properties of, for use as γ source in surface mass measurements, 21:8533
RADIUM ISOTOPES Ra-223
  alpha decay of, alpha and gamma spectra and α—γ angular correlations from, (E), 25:20456
  alpha decay of, α—γ coincidence and angular correlation studies of, (E), 22:11947 (MIT-952-4, pp 220-66)
  alpha decay of, α-γ angular correlations in, (E), 21:27571 (MIT-2098-299, pp 66-73)
  alpha decay of, charge of radon-219 recoil atoms in, 23:40701
  alpha decay of, possible explanations for forbidden, (T), 25:50732
  alpha spectra of, use of semiconductor spectrometer for determining, 22:38060 (CONF-670545, pp 88-95)
  content of Indian rainwater during 1965, 23:463
  conversion-electron spectra of, satellite bands in, (E), 21:40473(R) (PR-P-74)
  decay of, conversion electron and gamma spectra from, (E), 24:13354
  determination in fresh water and seawater by sorption on barium sulfate-impregnated aluminum oxide bed and γ spectrometry, 23:49727 (BNWL-1051(Pt.2), pp 23-7)
  distribution in man following intravenous injection, 22:36213
  energy levels from alpha decay of thorium-227, (E), 22:11947 (MIT-952-4, pp 220-66)
  energy levels from decay of francium-223, spin—parity assignments for, (E), 23:15453
  energy levels from thorium-227 alpha decay, (E), 21:10032
  energy levels from thorium-227 alpha decay, spin—parity assignments for, (E), 25:48076(R) (NP-18837)
  energy levels from thorium-227 decay, (E), 24:28790
  energy levels from thorium-227 decay, (E), 24:43364
  energy levels from thorium-227 decay, (E), 22:44692
  energy levels from thorium-227 decay, spin determinations using α-γ angular correlations, (E), 21:27571 (MIT-2098-299, pp 66-73)
  energy-level transitions from decay of thorium-227, multipolarities for, (E), 23:11033
  energy-level transitions from thorium-227 decay, (E), 22:35303
  gamma spectra of, line intensities in, (E), 22:44746
  half-life in man, 23:29317
  internal conversion electron spectrum from thorium-227 decay, (E), 22:11944(R) (AECL-2780)
  neutron fission in reactors, (E), 21:12038
  retention in man in comparison to radium-226, 23:41214
  separation from actinium-227 and thorium-227 by adsorption on platinum and selective desorption, 24:2277
  separation from actinium-227 and thorium-227 by residue adsorption, 21:40959(R) (MLM-1399)
  separation from actinium-227-labeled actinium nitrate by ion exchange, spectral studies on purity in, 23:4740
  separation of radon-219 from, equipment and method for, 21:12380(R) (MLM-1342)
  spectra of, alpha-gamma coincidence, 21:12380(R) (MLM-1342)
  uptake and elution by powdered rat bone, mechanism and rate of, 22:8455
  uptake by bones of man, rabbits, and rats from blood, rate difference in, 24:31815 (ANL-7489, pp 77-81)
RADIUM ISOTOPES Ra-224
  activity ratio to thorium-228 in liver and spleen of Thorotrast patients, steady-state, 23:933(R) (NIRS-6)
  activity ratios in alpha decay of thorium-228, gamma spectrometric determination of, 22:48564
  alpha decay of, directional correlations in, (E), 21:1095
  alpha decay of, half-life for, (E), 25:46086
  alpha decay of, measurement of absolute gamma intensities for, 24:5432
  alpha decay of, separation and identification of products from, 25:51547
  alpha dose to rabbits following injection of Thorotrast, 23:6432(T) (ANL-Trans-672)
  alpha emission by, effects of, on radiation dose to man following injection of Ixthor, 22:40709
  analysis of medical preparations of, for impurities, physical measurements for, 23:2220
  analysis of solutions of, for long-lived radioactive impurities at 10 and 19 months after proposed date for use, 23:24107
  carcinogenicity in man, following ingestion or injection, 25:18979 (BRH/DBE-70-5)
  clearance from blood, lungs, muscles, and reticuloendothelial system of dogs following inhalation of thorium-228-enriched thorium dioxide, 25:49082
  content in human bones and teeth in New England, 22:2220
  content in tissues, gamma spectroscopy method for determining, 22:49099
  content of animals, plants, and soil, 21:43415
  content of human teeth in New Hampshire and Vermont, 24:48474
  content of Ixthor, effects of, on radiation dose to man following intravenous injection, 22:40709
  decay products of, effects on man evident 10 or more years after therapy for ankylosing spondylitis, 23:24754
  determination in barium sulfate by alpha counting, 23:28735
  determination in colloidal cerium oxalates, precipitation method for, 21:30370
  determination in fresh water and seawater by sorption on barium sulfate-impregnated aluminum oxide bed and γ spectrometry, 23:49727 (BNWL-1051(Pt.2), pp 23-7)
  determination in thorium mill effluents by γ spectrometry, 23:19634
  distribution between crystalline and fused calcium nitrate, coefficient of, 23:28771(T) (AD-682879)
  distribution in organs and skeleton of rabbits, effects of thorotrast on, 25:24033
  distribution in reticulo-endothelial system and skeleton of animals following thorotrast administration, model for, 23:29337
  distribution in tissues of man, after use for treatment of skin diseases, whole-body counting of, 21:22458
  distribution in tissues of mice and rats following intraperitoneal injection, dose relation for radium-226 and, 25:55115
  distribution in tissues of rats following intravenous injection, comparison of, 25:32337
  distribution of recoil ions of, outside thorium oxide particles in thorotrast, 25:29169
  dosage of drugs containing, 21:8708
  effects on bone and hematopoietic tissues, review of, 25:44754
  effects on bones of dogs, calculation of accumulated skeletal dose and tumor growth dynamics for, 25:29621 (COO-119-243)
  effects on bones of mice and rats following intraperitoneal injection of, effects of fractionated and single doses on incidence of neoplastic, 24:34033
  effects on bones of mice, carcinogenic α and γ, 23:31905 (EUR-4097)
  effects on bones of radium dial painting personnel in comparison to effects of radium-226, effects of localization point on tumorigenic, 24:50939 (CONF-691212-, pp 369-86)
  effects on dogs, pathological, following intravenous injection, 21:24287 (COO-119-235, pp 4-70)
  effects on incidence of osteosarcomas in beagle dogs following intravenous injection, 25:57918
  effects on man following therapy of skin diseases, latent α and γ, 23:29874
  effects on man following therapy, hematological and tumorigenic, 23:33898
  effects on man, damaging, 25:11294(R) (EUR-4542)
  effects on mice and rats following injection, LD50 for neoplastic, 24:27507 (CONF-690540-, pp 309-20)
  effects on osteosarcoma induced development in man, therapeutic, 25:37710 (A/CONF.49/P-81)

energy levels from thorium-228 alpha decay, lifetimes, quadrupole moments, and deformation parameters for, (E), 25:12542
energy-level transition in, conversion electron subshell ratios for 84.5-keV, (E), 25:38972(R) (COO-535-620)
energy-level transitions from thorium-228 alpha decay, probabilities for E2, (E), 25:12542
energy-level transitions from thorium-228 decay, conversion coefficients for, (E), 22:30024
energy-level transitions in, internal conversion coefficients for, (E), 21:27571 (MIT-2098-299, pp 66-73)
energy-level transitions in, internal conversion coefficients for $2^+ \rightarrow 0^+$, (E), 23:21331 (MIT-952-5(Pt.1), pp 200-314)
energy-level transitions in, L and M subshell internal conversion ratios for E2, (E), 25:34110
energy-level transitions in, L- and M-subshell internal conversion ratios for E2, (E), 23:10936(R) (COO-535-591)
energy-level transitions in, total internal conversion coefficients for E2, (E), 22:50611
excretion by man in relation to whole-body content, 23:29328
excretion by thorium dioxide patients, 23:20302
excretion of, in Thorotrast cases, 21:4810
gamma emission by, effects of, on radiation dose to man following injection of Ixthor, 22:40709
ingestion by man, radiation dose to bones following, 23:38427
measurements of, in blood, breath, feces, and urine samples, metabolic studies, 21:8672 (MIT-952-3, pp 202-317)
metabolism and toxicology in rats, 21:32735(R) (EUR-3270.d)
metabolism by man, 22:38217
metabolism in animals and man following intravascular administration of Thorotrast, mechanisms for, 24:27505 (ANL-7615, pp 97-115)
metabolism in dogs following decay of thorium-228, 23:50280 (UR-49-1153)
metabolism in man, 23:20402 (MIT-952-5(Pt.1), pp 1-136)
metabolism in man following ingestion, 23:38427
metabolism in man following injection of Thorotrast, review of tissue studies of, 23:26794
metabolism in man, following thorium-232 decay, 23:26667
metabolism in mice and rats following injection, 24:27507 (CONF-690540-, pp 309-20)
metabolism of, 21:12889
neutron strength functions for, calculation using deformed nucleus optical model, 22:27093
preparation from thorium-228 solutions, rapid milking method for, 25:32009
preparation of, equations and generator method for, 21:8407
range distributions of recoil, in gases, 21:40941
range of recoil atoms of, in gases at 96.5 keV, (E), 25:36262
range of recoil, in isotropic stopping materials, (E/T), 22:34263
recoil from alpha decay of thorium, 22:48895 (CEA-R-3493)
removal from ceramic tile and linoleum surfaces, 25:21681
sorption of, by manganese oxides in water works filter bed materials, 21:16006
toxicity in animals, pathogenesis of, 24:39549 (EUR-4405)
toxicity in dogs, clinical and pathological aspects of, 22:25962(R) (COO-119-236)
toxicity in mice and rats, pathogenesis of, 24:39549 (EUR-4405)
transport through food chains to man, 23:7972 (NYO-2577-10)
use for therapy in man, development of bone damage and sarcomas following, 23:38853
use for therapy of ankylosing spondylitis in man, excretion measurements and whole-body counting following, 25:11231
use for therapy of plantar warts, development of latent injuries following, 23:31980
use for therapy, determination of doses for, 22:38217
use for treatment of skin lesions, 21:22604
use in therapy, time pattern of radiation dose after, 21:22532
use of, for treating cutaneous hemangiomas, 21:6581
use of, in therapy, development of injuries from, 21:11011(T) (ANL-Trans-386)

RADIUM ISOTOPES Ra-225

decay and growth of, tabulation of, for use as tracer in radiometric analysis, 24:31249
energy level scheme from thorium-229 decay, (E), 25:25761
energy levels from thorium-229 decay, properties of low-lying, (E), 24:40612 (ITEF-748)
energy levels of, deformation effects on, (T), 21:31796

RADIUM ISOTOPES Ra-226

abundance in deep seawater, effects of leaching on, 23:38128
abundance ratio to actinium-227 in minerals and waters, method for measuring, 23:93
abundance relative to actinium-227 in minerals and natural waters, 25:34738
accumulation by algae in culture, concentration factor for, 24:41875 (AECL-3430, pp 19-31)
accumulation in aquatic and marine animals, 23:17980 (CONF-670503-, pp 535-46)
accumulation in ecosystem of Colorado rivers, 23:17976 (CONF-670503-, pp 307-18)
accumulation in human bones, effects of age on pattern of microscopic, 24:7721
accumulation in lichens and reindeer bones in subarctic regions, 24:12032(T) (AEC-tr-7128, pp 180-93)
accumulation in tropical marine algae, mechanisms for, 24:27499 (ANL-7615, pp 3-18)
activity containment integrity of foils used in smoke detectors, test results on, 25:51920 (ORNL-TM-2684)
activity in nonequilibrium state, gamma spectrometric measurements of, 25:57365
activity measurement of, in soils, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
alpha decay of, α—α angular correlation in sequential, (E), 23:5936
alpha decay of, γ energies and intensities from, (E), 25:31358
alpha decay of, perturbations of α—γ angular correlations in, (E), 24:49903
alpha decay of, perturbations of α—γ angular correlations for, (E), 24:28782 (UUIP-660)
alpha decay of, relative γ-ray intensities from, (E), 25:20425
alpha emission by ingested, pathological effects of, on man, 22:38428 (UCRL-18140, pp 197-212)
alpha emission by naturally-occurring, dose to human bone from, 22:8552
alpha emission by, effects of, on chromosomes in bone marrow of rats, internal, 22:51945
alpha emission by, effects of, on frequency of chromosome aberrations in bone marrow cells and leukocytes of man, 22:28441
alpha emission by, effects of, on synthesis of androgens in beagles, 22:43244
alpha emission by, tumorigenic effects of, on bones of dogs, 22:47581
atomic mass of, 24:41269
body burdens in Brazil, 22:6770(R) (NYO-3273-9)
bremsstrahlung emission by, in man, gamma spectra in range of, 22:8556
carcinogenicity in dogs, man, and mice following ingestion or injection, 25:18979 (BRH/DBE-70-5)
concentration by tropical marine algae, 25:26597
contamination in human tissues, solubility of, 21:26462
contamination incident in Iowa, 22:40700
content and distribution in freshwater basin, 23:43412
content and distribution in human skeletons in Wisconsin during 1957 to 1961, 22:38267 (UCRL-18140, pp 175-95)
content and distribution in Maryland tobacco-growing soils, 22:37877 (UCRL-18140, pp 145-58)
content and distribution in USSR soils, 24:9496
content and equilibrium of, in basalts, 21:6030
content and migration in river and soil environment, effects of human and industrial activity on, 25:32373
content in Amazon and Mississippi Rivers, 21:32270
content in Antarctic Ocean south of Australia, effects of calcium carbonate and calcium silicate on, (E), 25:8380
content in antarctic waters from continental shelf to South Australian Basin, 24:19114
content in Arabian seawater and Pacific Ocean marine deposits, rapid beta—gamma coincidence method for determination of, 25:39616
content in Arctic biota, 21:26405 (ANL-7220, pp 51-8)
content in Atlantic and Pacific Oceans, 22:4294
content in Atlantic and Pacific Oceans, 23:9574
content in Atlantic and Pacific Oceans, determination from radon-222 measurements, 21:43070 (CU-2663-8, App.R)
content in atmosphere and drinking water in Miasa Mine area and Okayama City, Japan, 23:40868
content in building materials, standards for maximum allowable, 23:13967(T) (TT-67-51409/4, pp 387-92)
content in California terrace soil, 24:36404
content in contemporary and fossil snow, effects of coal burning power stations on, 25:29209
content in drinking water in USA, standards for maximum permissible, 25:42470
content in drinking water, effects of, on incidences of neoplasms, 21:18142
content in French mineral water springs, 22:48932
content in hot springs, 23:26360
content in human bone in New Zealand, 1966, 21:36148(R) (NP-16801)
content in human bones and teeth in New England, 22:2220
content in human diet, contribution of caribou meat to, 21:26405 (ANL-7220, pp 51-8)
content in human tissue and environmental samples, log-normal distribution of, 21:24453
content in Illinois soil, measurement of radioactivity from, 22:171 (PHS-999-RH-26)
content in Japanese hot springs, effects of acidity and geology on, 24:316
content in lead metals, age estimation of works of art from, 21:16008
content in Ligurian Sea sediments, α spectroscopy method for determination of, 21:6091
content in low-level samples, determination of, 22:2377
content in man after occupational exposure, gamma-spectra analysis techniques for determining, 22:4458(R) (NYO-3136-4)
content in man, determination by whole-body counting, 21:22479(R) (NYO-2181-4)
content in man, mobile acclimation room for detection of low, 22:45283 (PHS-999-RH-31)
content in milk in France, effects of subsoil nature on, 21:30815
content in minerals and waters from active volcanoes in USSR, 24:31473
content in minerals and waters of Kamchatka and Kuril Islands, 23:35333
content in modern marine shells, 21:41008
content in New Zealand fertilizers, 1966, 21:36148(R) (NP-16801)
content in North Adriatic Sea sediments, (E), 24:19116
content in north Atlantic Ocean, vertical profile of, 25:39617
content in Northeast Pacific Ocean ecosystem, June 1967, 23:13669 (BNWL-715(Pt.2), pp 1-149)
content in northeast Pacific Ocean in relation with depth, (E), 24:14099 (RLO-1750-54, pp 71-4)
content in organs of guinea pigs in comparison to content of calcium-45 and strontium-85, 21:45569
content in organs of persons exposed to natural background radiation, 21:26461
content in personnel of nuclear facilities, use of whole-body counter for measuring, 21:26464
content in plankton and seawater in the Bahamas region, 21:41050
content in recent volcanic rocks, use in age estimation, 23:7633
content in Rhine basin mud and water, measurement of, 23:38092 (EUR-3741(Vol.1))
content in river waters in Czechoslovakia, (E), 25:54774
content in river waters in India, 23:49942
content in rivers in Holland, 21:28442 (RA-23)
content in rivers in Holland, 21:28442 (RA-23)
content in rivers in uranium mining areas of Czechoslovakia during 1964 to 1967, 25:4157
content in Romanian mineral water springs and sediments, 22:14584
content in sands and soils of south Florida, 1968 measurements of natural, 25:13107
content in sea water, measurement of, 21:8478(T) (AEC-tr-6641, pp 192-3)
content in seawater and Pleistocene sediments, (E), 25:10725(R) (CU-3139-4)
content in seawater at Geosecs Station, north Pacific Ocean, relations with depth, 25:10726
content in seawater, effect of river inflow on, 22:8232 (ORO-2411-8)
content in sediments in Pacific Ocean near Columbia River estuary, 23:49963 (BNWL-1051(Pt.2), pp 40-3)
content in sediments, determination for use in uranium prospecting, 24:36428
content in soils in Illinois, 21:6078
content in soils on Niue Island in south Pacific Ocean, 22:37878
content in surface seawater, 22:10404 (CU-3139-1(App.A))
content in surface waters and precipitation in The Netherlands, 1965, 21:25997 (RA-24)
content in surfaces of closed basin lakes in western US, 23:49930 (CU-2493-10(App.B))
content in teeth and urine of Brazilian populations, effects of level of natural background radiation on, 21:26438
content in tissues of radium dial painters, 21:22479(R) (NYO-2181-4)
content in urine of man, method for determination of, 22:40717
content in USSR granites, 23:29000
content in water samples in Finland, 23:49733 (SFL-A-14)
content in waters of neovolcanic regions of Caucasus, 24:36406
content in world-wide volcanic rocks, 24:33785
content of adolescent diet in Belgium during 1965 to 1966, 23:26770 (NP-17819, Chap.4)
content of animals, plants, and soil, 21:43415
content of aquatic fauna, effects of, on human diet, 23:769 (ANL-7360, pp 68-149)
content of artificial and natural, in commercial fish flour, 23:11444 (BNWL-481-2, pp 1-126)
content of beagle dogs, design of positioner for whole-body determination of, 24:50895 (COO-119-241, pp 2-24)
content of blood stream following long-term deposition from medical and occupational sources, 24:34721
content of bone samples from uranium mining personnel, 24:17015
content of bone, determination of, by autoradiography using polaroid film, 23:769 (ANL-7360, pp 68-149)
content of bone, muscle, and rumen of caribou and reindeer in Alaska, 22:10776
content of bones and diet of children in Argentina during 1968, effects of breast feeding on, 23:45626(R) (NYO-2753-7)
content of bones and food, ratio of, to calcium, 22:43305(R) (NYO-2753-6)
content of bones in man in relation to incidence of tumors in soft tissues, 23:38854
content of bones of animals and man, 25:21648
content of bones of beagle dogs, equation for radon ratio to, 24:50680 (COO-119-241, pp 69-78)
content of bones of children, 22:493(R) (NYO-2753-5)
content of bones of dial painters, ratio of, to lead-210, 23:12031
content of bones of man, radiographic determination of, 22:10760 (MIT-952-4, pp 1-131)
content of bones samples in Japan during 1966, 22:4605 (NP-17083)
content of bones, food and water in Yugoslavia, 24:41790
content of caribou, Eskimo placenta, reindeer, and wolves of Arctic region, 23:14185
content of diet in United States from 1964 to 1967, 24:31963
content of diet in USA during 1965 to 1970, 25:13401
content of diet of children in 1966, 22:28523
content of diet of children in United States during 1965, 22:28522
content of diet of children in USA during 1968, 23:33710
content of diet of human adolescents in EURATOM countries during 1965 to 1967, 25:13392 (EUR-3945(Pt.2))
content of diet of human children in USA during 1968, 23:31779
content of drinking water in USA, standards for, 24:12083
content of drinking water, standards for, 25:44796
content of drinking water, standards recommended by Federal Radiation Council for, 24:41869
content of environmental samples, methods of measuring, 23:12119
content of food and water, radiation effects on man from, 25:44949

content of food in Belgium during 1967, 23:820 (NP-17579, pp IV.1-3)
content of foods and soils, accuracy in low-level measurement of, 23:12118
content of foods in Japan, effects of region on, 23:48040
content of fresh-water organisms from uranium mill wastes, 23:16315
content of grass and milk, 23:904 (NP-17579, pp III.17-30)
content of honey in Roumania, 22:15011
content of human blood, feces, and urine, preparation and source of samples for, 24:19286 (MIT-952-6, pp 1-132)
content of human body, case reports on, 24:19286 (MIT-952-6, pp 1-132)
content of human bones in New Zealand during 1961 through 1966, effects of annual rainfall rates on, 23:35726(R) (NP-17935)
content of human bones in New Zealand during 1961 through 1968, 23:35705(R) (HASL-210)
content of human bones sampled in New Zealand during 1969, 24:48465(R) (NP-18401)
content of human diet in California during 1967 through 1968, 23:35748
content of human diet in California during 1968 and 1969, 24:34235
content of human diet in New York and San Francisco, 24:25481(R) (HASL-224)
content of human diet in U. S. during 1966, 22:28519
content of human diet in U. S. during 1966, 22:28517
content of human diet in USA and USSR, 24:9799 (CONF-690303-, pp 189-200)
content of human diet, placental tissues, and teeth in high natural background areas in Brazil, 25:18927 (NP-18670)
content of human skeleton following ingestion or injection of, effects of metabolic factors and time on, 25:21545 (ANL-7760(Pt.2), pp 22-34)
content of human teeth as estimate of content of bones, 22:51627
content of human teeth in New Hampshire and Vermont, 24:48474
content of human teeth, effects of natural radioactivity on, 23:43668
content of human urine in population and uranium mining personnel, 23:48035
content of human urine, effects of occupation on, 23:31731
content of industrial, medical, and research personnel in East Germany during 1965 to 1967, use of experimental whole-body counter to measure, 23:41320
content of institutional diet of adults and children in USA during 1969, annual average, 25:13442
content of institutional diet of man in USA during January to March 1968, 23:43778
content of institutional diets for human children in United States during 1967, fallout, 23:12094
content of institutional diets for human children in United States during July to December 1967, 23:12086
content of institutional diets in U. S. during 1966, 22:23520
content of institutional diets in United States during Jan. to March 1967, 22:28506
content of institutional diets in USA during October to December 1968, 23:45744
content of interstate carrier water supplies during 1967 to 1969, 25:21691
content of Kiskiminetas River, Pennsylvania, effects of coal mine drainage on, 25:16185
content of lakes, Ottawa River, plankton, and well water in Chalk River area during 1969, 25:4473 (AECL-3687)
content of living environment, 22:43301 (AERE-R-5474)
content of luminous dial painters, use of whole-body counter to measure, 24:19286 (MIT-952-6, pp 1-132)
content of man following long-term deposition from medical and occupational sources, whole-body, 24:34721
content of man in Finland from natural sources, 25:18931 (NYO-3446-14, Paper 30)
content of man in Soviet Union, effects of age and geography on, 25:16066(T) (AEC-tr-7214, pp 87-107)
content of man, measurement of, using whole-body counters, 23:50521
content of man, methods for measurement of, 23:26810
content of man, radon-222 content of breath for estimating, 23:29493(T) (AEC-tr-7020)
content of man, use of log-normal function for stochastic model of, 22:8545
content of man, use of whole-body γ counting for measurement of, 23:20402 (MIT-952-5(Pt.1), pp 1-136)
content of marine phytoplankton off coast of South Africa, 25:55155
content of natural waters at Masutomi spa area in Japan in relation to daily ingestion limits, 25:13470
content of plankton and water in Adriatic Sea and Ligurian Sea during 1960 to 1968, 23:29484
content of plankton and water in Canadian lakes and rivers during 1969, 24:41875 (AECL-3430, pp 19-31)
content of salmon in Alaska in relation to uptake by human population, 23:45725
content of selected food samples from I.A.E.A., Belgium participation in interlaboratory comparison of, 23:26770 (NP-17819, Chap.4)
content of shellfish, FRC, ICRP, and NCRP standards for, 22:23513
content of surface waters in Colorado during 1967, 23:31777
content of Swiss population during 1964, effects of age, locality, and sex on, 22:21500
content of teeth of residents from area of high natural radioactivity in Japan, 23:43667
content of tobacco and tobacco smoke, 23:9832 (NP-17514, pp 25-46)
content of tobacco and urine of human smokers in Yugoslavia, 23:14183
content of tropical marine algae, 24:42025 (ANL-7635, pp 303-12)
content of urine in man in relation to body burden, 22:2508 (SC-TM-67-405)
content of uveal tissue in eyes of beagle dogs, use of autoradiography to measure, 25:55319 (UCD-472-118)
content of water supplies in California during 1966 to 1967, fallout, 23:12081
content of water supplies in United States, analysis of, 23:2833
content of water supplies in USA, recommendations of Federal Radiation Council for maximum permissible, 24:34236
content of water, state and territorial regulations and standards for, 22:28504
content of, in Azov and Black Seas and estuaries, 21:4638
content of, in bone and soft tissues of man after occupational exposure to radium-226, 21:12749(R) (NYO-3086-6)
content of, in bones of infants, effects of content in diet on, 21:12747 (CONF-651008-, pp 126-33)
content of, in man, after intravenous injection 33 years ago, whole-body counting of, 21:12745(R) (ANL-7217)
content of, in mineral water in Italy, 21:6523
content ratio to actinium-227 in ground water and minerals, 23:29001
content ratio to radium-228 in Indian Ocean surface waters near Antarctica, (E), 24:19112
content relative to thorium and uranium isotopes in Caucasus neovolcanic waters, 24:2304
content relative to thorium-230 and uranium-238 in antarctic waters from continental shelf to South Australian Basin, 24:19114
counting in man, performance of whole-body counters for, 22:28483
decay of daughter nuclide growth rate curves for, 21:1070 (ANL-7205)
decay products of, hazards to fetuses from placental transfer of, 25:4673
deposition and resorption of, in bones of humans, use of, for interpretation of, 21:8705
deposition in aorta of man, 22:38198 (UCRL-18140, pp 159-73)
determination by solvent extraction and counting, 23:45219
determination by whole body counting, regression analysis of γ spectra in, 24:87
determination in biological ash, food, and soil by multidimensional coincident γ spectrometry, 23:28723
determination in body, Peltier equipment for exhalation measurements for, 23:35557
determination in brass, bronze, and iron by α spectroscopy, 23:45223(R) (NYO-3953-1)
determination in environmental air, dusts, ores, and water and uranium mill process wastes, radiochemical, 25:40 (IDO-12073, pp 28-36)
determination in environmental samples by radon-222 emanation, 21:30352 (PHS-999-RH-27)
determination in food by emanation methods, 21:30352 (PHS-999-RH-27)
determination in foods or man, radiometric method for, 25:37310
determination in fresh water and seawater by sorption on barium sulfate-impregnated aluminum oxide bed and γ spectrometry, 23:49727 (BNWL-1051(Pt.2), pp 23-7)
determination in incinerator ash by gamma spectrometry, 24:38764
determination in marine sediments off Tarapur Coast, 25:18354
determination in medical preparations of radium-224, physical measurements for, 23:2220
determination in nonequilibrium state by γ scintillation spectrometry, 25:15523
determination in open water reservoirs, 21:28085
determination in pitchblende using solvent extraction and ion exchange, 22:37676
determination in presence of bismuth-214 and lead-214 by gamma spectrometry, 25:57365
determination in seawater by isotopic dilution method, 23:15807 (CU-3139-2, App.F)
determination in soil and construction materials, energy-range method and scintillation gamma spectrometer for, 23:673
determination in stored radium-224 solutions, 23:24107
determination in surface waters, emanation method for, 23:19669
determination in urine in presence of lead-210, polonium-210, and uranium by scintillation counting, 21:32112
determination in urine, methods used at CNEN for, 25:57347 (RT/PROT-(71)9)
determination in urine, radiochemical method for, 22:44970 (AERE-AM-103)
determination in water by emanation method, 21:30352 (PHS-999-RH-27)
determination in water, method for, 22:2415
determination in water, methods for, 22:2210
determination of chemical and physical forms of, in Columbia River during Hanford reactor shutdown, ion exchange studies on, 23:11444 (BNWL-481-2, pp 1-126)
determination of dissolved, in water by emanation method, 21:30382
determination of distribution of, in salmon tissues by γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of ultra-microquantities of, by extraction and counting of radon—222, 24:20713(T) (BNL-tr-327)
determination of, direct de-emanation method for, 25:40 (IDO-12073, pp 28-36)
determination of, in organic ash, radiochemical, 21:12749(R) (NYO-3086-6)
determination of, in water, methods for, 21:5761 (PHS-999-RH-17)
determination of, sample preparation for low-level alpha spectrometric, 21:2949
determination simultaneously with strontium-90 in biological materials enriched in calcium phosphate, 24:18909
deuteron fission at 16 to 19 MeV, mass-yield curve for, (E), 25:56775
deuteron fission at 19 MeV, cadmium-115 and cesium-134 isomer ratios in, (E), 25:38996(R) (RLO-2227-T-7-1)
deuteron fission at 19 MeV, cadmium-115 and cesium-134 isomer ratios in, (E/T), 24:40619(R) (RLO-2060-8)
deuteron fission at 5.0 to 12.5 MeV, fission-fragment angular distributions and cross sections for, (E), 21:21565
deuteron fission of, fragment deformation and kinetic energies from, (T), 21:13905
deuteron fission of, mass-yield distributions of fragments from, (E/T), 25:17884
distribution and retention in human tissues 35 to 50 years following internal radium exposure, 23:22426 (ANL-7531)
distribution in aquatic ecosystem, 22:47498
distribution in Caribbean deep waters, areal and vertical, 22:192
distribution in dog femur, thick-source α spectroscopy for determining, 24:31816 (ANL-7489, pp 81-7)
distribution in fish bones, 24:18909
distribution in ground water near Great Salt Lake, 22:2209
distribution in hot springs, 25:34736
distribution in Ligurian Sea sediments, measurement of vertical, 25:41949
distribution in oak trunk following uptake from soil, 25:46808 (NYO-3756-7)
distribution in Olympic National Park environment, 23:11444 (BNWL-481-2, pp 1-126)
distribution in radioactive springs in Japan, measurement of, 24:19088
distribution in skeletal system of beagle dogs following injection, 24:50679 (COO-119-241, pp 60-8)
distribution in tissues of mice and rats, dose relation for radium-224 and, 25:55115
distribution of, in oceans, effect of mixing across thermoclines on, 21:8482
dose to man, determination by whole-body counting, 23:16320
dose to rats in Brazil from natural background radiation, 23:22287 (NYO-3086-8, pp I.1-42)
dosimetry of, calibration of standard chair geometry for, 22:21460(R) (COO-1171-82)
effects and toxicity in dogs following injection, tables for, 23:11976 (COO-119-237, pp 7-83)
effects on beagle dogs in comparison to effects of plutonium-239, effects of dose on mechanism of lethal, 24:32204
effects on blood chemistry in beagles, effects of dose and time on, 24:542 (COO-119-240, pp 243-61)
effects on blood serum chemistry in Beagle dogs following injection, statistical analysis of effects of deposition site, dose, and time on α, 23:38795
effects on blood serum constituents in dogs following intravenous injection, 23:26886
effects on blood serum content of enzymes, nitrogen and phosphorus in dogs, α and γ, 23:12003 (UCD-472-115, pp 25-30)
effects on blood vessels in bones of Beagle dogs following injection, effects of dose on pathological α, 23:38797
effects on blood, carcinogenesis, and life span of animals in comparison to plutonium-239, 25:8596(T) (LF-tr-41, pp 127-97)
effects on bone and bone marrow of beagle dogs exposed from midgestation to adulthood, carcinogenic, 24:34641
effects on bone and bone marrow of beagle dogs, review of, 24:9922 (CONF-690303-, pp 231-53)
effects on bone and hematopoietic tissues, review of, 25:44754
effects on bone metabolism in dogs, evaluation of hydroxyproline excretion as index of α and γ, 24:29869 (UCD-472-116, pp 108-9)
effects on bones of Beagle dogs following injection, comparison of RBE for, with other bone-seeking radioisotopes, α, 23:38800
effects on bones of beagle dogs following intravenous injection, RBE for carcinogenic, 24:34031
effects on bones of beagle dogs, carcinogenic, 25:24336 (COO-119-242, pp 385-401)
effects on bones of beagle dogs, estimation of hazards to man from model for long-term low dose, 25:55319 (UCD-472-118)
effects on bones of Beagle dogs, pathological, 25:6781 (UCD-472-117, pp 51)
effects on bones of dial painters, late pathological, 22:38417 (ACRH-1000-59)
effects on bones of dial painters, review of dose-response curve for carcinogenic, 25:24336 (COO-119-242, pp 385-401)
effects on bones of dogs and man, latent carcinogenic α and γ, 23:29734 (CONF-690404-3)
effects on bones of dogs, calculation of accumulated skeletal dose and tumor growth dynamics for, 25:29621 (COO-119-243)
effects on bones of dogs, carcinogenic and injurious α and γ, 23:12208 (UCD-472-115, pp 63-5)
effects on bones of dogs, pathological, 24:25526
effects on bones of dogs, RBE for carcinogenic α, 23:50833 (PHS-999-RH-33, pp 59-60)
effects on bones of dogs, use of fluorine-18 in scanning for α and γ, 24:29784 (UCD-472-116, pp 39-40)

effects on bones of man, estimation of dose for carcinogenic, 24:34031
effects on bones of mice, carcinogenic α and γ, 23:31905 (EUR-4097)
effects on bones of mice, review of dose-response curve for carcinogenic, 25:24336 (COO-119-242, pp 385-401)
effects on bones of radium dial painting personnel in comparison to effects of radium-224, effects of localization point on tumorigenic, 24:50939 (CONF-691212-, pp 369-86)
effects on bones, eyes, and teeth of dogs, 23:12200 (UCD-472-115, pp 21-4)
effects on bones, oncogenic α, 23:20405
effects on composition of collagen and mucopolysaccharides of bone and cartilage of dogs, α and γ, 24:11964
effects on content of collagen, mucopolysaccharides, and neutral sugars in cartilage of dogs, α and γ, 23:12004 (UCD-472-115, pp 45-7)
effects on content of erythrocytes and leukocytes in dogs, α and γ, 23:12210 (UCD-472-115, pp 71)
effects on content of mucopolysaccharides in cartilage of dogs, α and γ, 23:12005 (UCD-472-115, pp 48-9)
effects on content of mucopolysaccharides in cartilage of dogs, α and γ, 24:29858 (UCD-472-116, pp 45-9)
effects on development of osteosarcomas in beagle dogs following intravenous injection, effects of time on RBE for, 24:837 (COO-119-240, pp 86-96)
effects on dog bones and marrow, scanning with fluorine-18, iron-52, and technetium-99 for detection of α and γ, 23:12209 (UCD-472-115, pp 66-70)
effects on dogs following ingestion, latent lethal α and γ, 24:29864 (UCD-472-116, pp 78-84)
effects on dogs, pathological, following intravenous injection, 21:24287 (COO-119-235, pp 4-70)
effects on dogs, treatment of injuries from α and γ, 24:29780 (UCD-472-116, pp 50-2)
effects on eyes of dogs, α and γ, 23:12203 (UCD-472-115, pp 34-8)
effects on eyes of dogs, α and γ, 24:29859 (UCD-472-116, pp 53-6)
effects on eyes of dogs, effects of age and baseline for α and γ, 23:12202 (UCD-472-115, pp 32-3)
effects on hematopoietic system in beagles following intravenous injection, effects of time on, 24:818 (COO-119-240, pp 224-42)
effects on human bones following ingestion in luminous paint by watch dial personnel, latent, 25:37710 (A/CONF.49/P-81)
effects on human cervical cancer, effects of breathing oxygen during therapy on, 23:41352
effects on human dial painters, carcinogenic α and γ, 23:29819 (ACRH-30, pp 69-91)
effects on human gastrointestinal tract following therapy of uterine cancer, 24:2825
effects on human mammary and thyroid glands following therapy of angiomas, carcinogenic, 24:12315
effects on human skin, in West Germany during 1965 to 1967, incidence of industry related, 24:900
effects on hydroxyproline content of dog urine in relation to bone metabolism, α and γ, 23:12204 (UCD-472-115, pp 39-44)
effects on immune reactions following use for therapy of uterine carcinoma, 24:9790
effects on incidence of malignant tumors in man, maximum permissible body burden for prevention of, 25:16014
effects on incidence of melanomas in beagle dogs, 25:24333 (COO-119-242, pp 211-42)
effects on incidence of osteosarcomas in beagle dogs following intravenous injection, 25:57918
effects on kidneys of dogs, nephritic α and γ, 24:29868 (UCD-472-116, pp 102-4)
effects on leukocyte count in Beagle dogs following injection, comparison of plutonium-239 with α, 23:38796
effects on leukocyte count in blood of beagle dogs following injection, 24:39572
effects on leukocyte counts in dogs, probit analysis of dose effects on injected, 21:32767
effects on life span of dogs, long-term α and γ, 24:29871 (UCD-472-116, pp 113-18)
effects on mammalian chromosomes, 25:16291
effects on man following exposure during industrial use of luminous paints, α and γ, 23:10098(R) (NYO-2181-5(Vol.2))
effects on man following exposure during industrial use of luminous paints, α and γ, 23:9937(R) (NYO-2181-5(Vol.1))
effects on man following therapy of skin diseases, latent α and γ, 23:29874
effects on man following uptake and retention, pathological, 25:24427 (MIT-952-7, pp 1-156)
effects on man, carcinogenic, 25:24431
effects on man, carcinogenic, 22:10760 (MIT-952-4, pp 1-131)
effects on man, carcinogenic α and γ, 23:20402 (MIT-952-5(Pt.1), pp 1-136)
effects on man, effects of dose on late, 25:42714
effects on man, in relation to dose, α and γ, 23:10097(R) (ANL-7461)
effects on man, long-term skeletal deposits, 21:8994
effects on man, neoplastic, 24:34721
effects on man, pathological analysis of ingested, 21:39492
effects on metabolic activity of bones from dogs, α and γ, 24:29870 (UCD-472-116, pp 110-11)
effects on mice following injection in chloride form, evaluation of cause of death from, 25:24416
effects on mice following intravenous injection, neoplastic, 24:34032
effects on morbidity and mortality in Beagle dogs, 25:6788 (UCD-472-117, pp 84-6)
effects on mucosa of bladder and ureters following therapy, 23:38846
effects on oxygen production in algae, 25:11074(R) (AECL-3777)
effects on protein content of lens of dogs, 24:29860 (UCD-472-116, pp 57-9)
effects on radiation body burdens of man, 22:33800 (A-AC-82/G/L-1182)
effects on root canal in teeth of dogs following intravenous injection, α and γ, 24:864
effects on sheep, long-term α and γ, 24:12233 (ORO-672, pp 43-61)
effects on skeleton of dogs, radiographic evidence of α and γ, 24:29857 (UCD-472-116, pp 41-4)
effects on skin of rabbits, comparison with cesium-137, 23:35755
effects on skin of swine in comparison to effects of californium-252, RBE for, 24:34566 (BNL-14610)
effects on skin of swine, RBE for, 24:39574
effects on soft tissue in Beagle dogs following injection, latent neoplastic, 23:38804
effects on sphenoid sinus of man, latent carcinogenic α and γ, 23:29820 (ACRH-30, pp 92-6)
effects on survival of Beagle dogs in relating to incidence of myeloproliferative syndrome, neoplasms, and osteosarcomas, 25:6787 (UCD-472-117, pp 82-3)
effects on tapetum lucidum of eyes of beagle dogs, effects of dose on pathological, 25:24334 (COO-119-242, pp 243-57)
effects on teeth of dogs, α and γ, 23:12201 (UCD-472-115, pp 31)
epidemiology of human populations exposed to, in drinking water, 21:8890
excretion and retention time in man following acute or chronic intake, method for calculation of, 25:57919
excretion by man in relation to whole-body content, 23:29328
excretion by radium dial painters, 23:769 (ANL-7360, pp 68-149)
excretion in urine by man, methods for calculation of safe limits of, 22:6811
fission of, adiabatic model analysis of asymmetric, 24:30894
fission of, energy surfaces for, (T), 25:28395
gamma decay, (E), 22:20662
gamma dose to man from deposited, calculation of, use of mathematical model using radon-222 content of breath for, 22:31090
gamma dose to tissues following single administration of, to organisms, 22:31061 (NP-17201)
gamma dosimetry for interstitial and intracavitary sources of, 22:31105
gamma dosimetry for interstitial implant sources of, 22:31087
gamma emission by ingested, pathological effects of, on man, 22:38428 (UCRL-18140, pp 197-212)
gamma emission by, effects of attenuation in water on dose to human tissues during interstitial or intracavitary therapy using, 22:33827
gamma emission by, effects of, on chromosomes in bone marrow of rats, internal, 22:51945
gamma emission by, effects of, on synthesis of androgen in beagles, 22:43244
gamma emission by, tumorigenic effects of, on bones of dogs following injection, 22:47581
gamma spectra in uranium ores, high-resolution measurements of, 25:32030
gamma spectra of, 22:14576
half life in man, 21:22479(R) (NYO-2181-4)
half-life and type of decay of, 22:42698
half-life in man, 23:29317
handling and storage of sources of, equipment and methods for safe, 25:54936 (BRH/DMRE-71-3)
handling of, equipment for, 22:14476 (BMwF-FBK-67-87)
hazards to man following accidental leakage from capsule, 25:16118
hazards to man from use in consumer products in comparison with promethium-147 and radium, 23:26768 (MORP-68-5)
hazards to personnel of mines in Czechoslovakia, history of, 24:44612
incorporation in melanin-containing tissues, effects of chelating agents, hydrated radius, and pH on, 21:45542
ingestion by man in New York City, contribution of different food categories to, 25:46812
ingestion by radium dial painters, evaluation of latent skeletal lesions induced by, 24:2659
ingestion of, by man, effects of content in food and water supplies on, 21:4751(T) (AEC-tr-6797, Paper 6)
ingestion of, radiobiological indexes for calculation of dose to man following occupational, 24:46607 (ANL-7680)
leak testing of sealed sources of, use of photographic film for, 22:38306
leakage from ruptured source, method for detection and prevention of, 24:33860 (BRH/SERHL-70-1)
leaks in sealed sources of, radon photography method for detecting, 23:17761
metabolism and tissue distribution following intake by man, 25:42467
metabolism in animals, 23:50279 (PHS-999-RH-33, pp 45-50)
metabolism in mammals and man, review of, 25:32326
metabolism in man, 25:4424(R) (TID-25567)
metabolism in man, procedures for determining, 24:19286 (MIT-952-6, pp 1-132)
metabolism in rabbits, kinetics of, 25:49090
metabolism in sheep and swine following ingestion, comparison of, 24:23077 (CONF-690501-, pp 183-90)
metabolism in skeleton of man, effects of age and diet on, 22:28305
metabolism, use of whole-body counters to study, 22:43300 (AERE-PR/HPM-12)
metabolisms in skeleton of dogs and man, 22:30991
monitoring in aquatic and marine fish in environs of nuclear power plants during 1967 and 1968, 24:34209
monitoring in personnel by film dosimetry, 24:34327
monitoring of fallout, in diet during April 1969, 23:24611(R) (HASL-207)
monitoring of plankton and water of Adriatic and Ligurian Seas during 1961 to 1968, fallout, 24:34210
neutron fission at 12.6 to 19.5 MeV, fragment angular distribution from, (E), 24:38241
neutron fission at 3 to 15 MeV, cross section and fission-fragment angular distribution for, (E), 22:24870
neutron fission at 3.5 to 9 MeV, analysis for transition state structure in cross section for, (T), 25:38996(R) (RLO-2227-T-7-1)
neutron fission in threshold region, analysis of cross section for, (E/T), 24:1852
neutron reactions with, actinium-227 production by, 22:18738(R) (MLM-1417)
neutron reactions with, production of actinium-227 and thorium-228 in, 23:214 (NP-17579, pp II.1-5)
neutron reactions with, production of actinium-227 by, 23:37998
neutron reactions with, products from, 23:9415 (ANL-7485)
neutron reactions with, to produce actinium-227 and thorium-228, 23:45310(P)
neutron strength functions for, calculation using deformed nucleus optical model, (T), 22:27093
neutron strength functions for, effect of nuclear deformation on, (T), 22:18211 (NAA-SR-Memo-12538)
photofission at 9 to 20 MeV, cross section for, (E), 25:53787
photofission at 9 to 25 MeV bremsstrahlung endpoint energy, fission-fragment angular anisotropy and yield for, (E), 22:24875
proton fission at 12.5 to 16.5 MeV, mass-yield curve for, (E), 25:56775
proton fission at 13 MeV, analysis using renormalized Fermi gas model and collective potential energy surface, (T), 25:56856
proton fission at 13 MeV, average number of neutrons in, (E), 23:1881 (ORNL-TM-2364)
proton fission at 13 MeV, α spectra for, (E), 23:52109(R) (RLO-1388-96)
proton fission at 13 MeV, fragment kinetic-energy distributions in, (T), 25:28408
proton fission at 13 MeV, neutron emission and fragment energy and mass distributions in, (E), 22:44738
proton fission at 6 to 13 MeV, fission-fragment angular and mass distributions in, (E), 22:44739
proton fission at 6 to 13 MeV, fission-fragment angular distributions and cross sections for, (E), 21:31834(R) (ORNL-4082)
proton fission at 9, 11, and 13 MeV, fragment mass and energy correlations of, (E), 24:13351
proton fission of, mass-yield distributions of fragments from, (E/T), 25:17884
radiation injuries from, after long-term deposition in human skeletons, 21:8994
radiation protection standards for, in drinking water, 21:28448
radon leakage from sealed sources of, photographic method for detection of, 25:57707
ratio to polonium-210 and thorium-228 in human bone samples, method for using thick-source α spectroscopy to determine, 24:19286 (MIT-952-6, pp 1-132)
retention in bones of beagle dogs, 24:50678 (COO-119-241, pp 25-59)
retention in cortical and trabecular bones and parts of bones in dogs, man, and rabbits, comparison of, 24:27502 (ANL-7615, pp 49-53)
retention in man in comparison to radium-223, 23:41214
retention of, in man, after occupational exposure, 21:12749(R) (NYO-3086-6)
separation from actinium-227 and thorium-228 by ion exchange, inorganic and organic materials for, 21:40944 (BLG-422)
separation from actinium-227 and thorium-228 in nitric acid solution by ion exchange using titanium phosphate and zirconium phosphate, 25:48589
sorption by cultivated plants, effects of calcium and soils on, 23:14137
sorption by human bones following professional exposure, 25:35099
sorption by intestine of mice, protective effects of sodium alginate against, 25:46694
sorption by man following injestion of brazil nuts, 23:35617
sorption of, by manganese oxides in water works filter bed materials, 21:16006
toxic effects of, in dogs compared to that of strontium-90, 21:10904
toxicity in animals, pathogenesis of, 24:39549 (EUR-4405)
toxicity in dogs, clinical and pathological aspects of, 22:25962(R) (COO-119-236)
toxicity in man, 22:10760 (MIT-952-4, pp 1-131)
toxicity in man, 24:19325(R) (MIT-952-6)
toxicity in man, case histories at Radioactivity Center on, 24:19286 (MIT-952-6, pp 1-132)
toxicity of, 23:821 (NP-17579, pp IV.3-4)
uptake and pathogenicity in melanocytes in dogs following eye injection, 25:24384
uptake and retention by beagle dogs following oral administration, 22:10827(R) (UCD-472-114)
uptake and retention by teeth of man, effects of age and fluoride content of drinking water on, 22:8465
uptake and translocation in plants, 24:50698
uptake by bones in animals and man, induction of neoplasms and radiation injuries following, 25:42472
uptake by Brazil nut seeds and tree tissues, 22:21413
uptake by freshwater algae, effects of species and time on, 25:44756
uptake by man residing in areas of high natural background radiation in Brazil, 23:7973(R) (NYO-3273-11)
uptake by man, methods for calculation of radiation dose following, 25:24427 (MIT-952-7, pp 1-156)

- uptake by organisms in combination with actinium-228, calculation of radiation dose following, 23:31752(T) (NRC-TT-1355)
- uptake from gastrointestinal tract by rats, protective effects of alginic acid and sodium alginate against, 25:46890
- uptake of, in water and foods in Asia, 21:3402 (NP-16260)
- use as alpha source for calibration and determination of basic parameters of silicon semiconductor spectrometers, 21:32391
- use as gamma source for implant therapy, methods for conversion of rads to roentgens for dosimetry of, 24:50909
- use as radiation source for therapy, comparison of, with californium-252, 24:23398
- use as sealed gamma sources, survey in USA of, 24:34367 (CONF-690335, pp 44-53)
- use as tracer in hydrological studies of gas exchange and vertical mixing, 25:8352 (CU-2493-11, App.6)
- use for calibrating photographic film for personnel dosimetry, 23:9766
- use for calibration of whole-body counters, development of method for, 25:563
- use for implant therapy of cervical carcinomas in man, development of rectal lesions following, 24:893
- use for implant therapy of eyelid tumors in man, development of pathological conditions in eye following, 23:41469
- use for interstitial therapy in man, calculation of α and γ radiation dose to bones following, 23:31746(T) (ANL-Trans-749)
- use for microradiography of bone cross sections to determine surface/volume ratio, 22:31003
- use for therapy of neoplasms in man, incidence of neoplasms following, 22:23638
- use for therapy of plantar warts, development of latent injuries following, 23:31980
- use in luminous paints, hazards from, 21:41415
- use in radiotherapy, time pattern of radiation dose after, 21:22532
- use in therapy, design of applicator for, 25:42590

- RADIUM ISOTOPES Ra-227
  - beta decay of, half-life, Q-value, and β and γ singles and γ-γ coincidence spectra from, (E), 25:48109
- RADIUM ISOTOPES Ra-228
  - activity measurement of, in soils, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
  - alpha emission by naturally-occurring, dose to human bone from, 22:8552
  - beta decay of, gamma ray intensities from, (E), 25:56747(T) (ORNL-tr-2531)
  - beta decay of, γ spectra from, (E), 25:46090
  - beta emission by, effects of, on synthesis of androgen in beagles, 22:43244
  - beta emission by, tumorigenic effects of, on bones of dogs, 22:47581
  - body burdens in Brazil, 22:6770(R) (NYO-3273-9)
  - content and distribution in seawater, 23:15982 (CU-3139-2, App.A)
  - content and distribution in worldwide oceans, (E), 24:44147 (TID-25493)
  - content in Arabian seawater and Pacific Ocean marine deposits, rapid beta—gamma coincidence method for determination of, 25:39616
  - content in building materials, standards for maximum allowable, 23:13967(T) (TT-67-51409/4, pp 387-92)
  - content in ground waters in Rostov Province of Soviet Union, 21:36114
  - content in hot spring waters in Japan, 22:6447
  - content in minerals and waters from active volcanoes in USSR, 24:31473
  - content in minerals and waters of Kamchatka and Kuril Islands, 23:35333
  - content in patients following Thorotrast injection, 21:22530
  - content in river waters in India, 23:49942
  - content in seawater and Pleistocene sediments, (E), 25:10725(R) (CU-3139-4)
  - content in seawater, measurement of, 22:45205 (TID-24654)
  - content in tissues of radium dial painters, 21:22479(R) (NYO-2181-4)
  - content of animals, plants, and soil, 21:43415
  - content of bones in man in relation to incidence of tumors in soft tissues, 23:38854
  - content of bones of animals and man, 25:21648
  - content of bones of man, radiographic determination of, 22:10760 (MIT-952-4, pp 1-131)
  - content of food in Brazil, 25:13439
  - content of human body, case reports on, 24:19286 (MIT-952-6, pp 1-132)
  - content of human diet on Kerala coast, India, 25:19143
  - content of human tissues following injection of Thorotrast, effects of time on, 23:26668
  - content of man in Finland from natural sources, 25:18931 (NYO-3446-14, Paper 30)
  - content of man, use of whole-body γ counting for measurement of, 23:20402 (MIT-952-5(Pt.1), pp 1-136)
  - content of rat tissues following intraperitoneal injection of Thorotrast, 24:31811 (ANL-7489, pp 30-3)
  - content of, in Azov and Black Seas and estuaries, 21:4638
  - content of, in bone and soft tissues of man after occupational exposure to radium-226, 21:12749(R) (NYO-3086-6)
  - content ratio to radium-226 in Indian Ocean surface waters near Antarctica, (E), 24:19112
  - content relative to thorium and uranium isotopes in Caucasus neovolcanic waters, 24:2304
  - decay products of, content of food in Brazil, 25:13439
  - decay products of, dosimetry of, following incorporation in mammals, 22:19331 (NP-17202)
  - determination by alpha particle track method, 24:5611
  - determination in colloidal cerium oxalates, precipitation method for, 21:30370
  - determination in environmental air, dusts, ores, and water and uranium mill process wastes, radiochemical, 25:40 (IDO-12073, pp 28-36)
  - determination in fresh water and seawater by sorption on barium sulfate-impregnated aluminum oxide bed and γ spectrometry, 23:49727 (BNWL-1051(Pt.2), pp 23-7)
  - determination in seawater after solvent extraction, counting procedures for, 23:9314
  - determination in soil and construction materials, energy-range method and scintillation gamma spectrometer for, 23:673
  - determination in thorium mill effluents by γ spectrometry, 23:19634
  - determination of, in organic ash, radiochemical, 21:12749(R) (NYO-3086-6)
  - distribution and transport in aquatic and terrestrial ecosystems, 25:21643
  - distribution in organs and skeleton of rabbits, effects of thorotrast on, 25:24033
  - distribution in reticulo-endothelial system and skeleton of animals following thorotrast administration, model for, 23:29337
  - distribution in soil profiles, natural, 25:21643
  - distribution in worldwide oceans, 24:333
  - distribution of recoil ions of, outside thorium oxide particles in thorotrast, 25:29169
  - effects and toxicity in dogs following injection, tables for, 23:11976 (COO-119-237, pp 7-83)
  - effects on blood chemistry in beagles, effects of dose and time on, 24:542 (COO-119-240, pp 243-61)
  - effects on blood serum chemistry in Beagle dogs following injection, statistical analysis of effects of deposition site, dose, and time on β, 23:38795
  - effects on blood serum constituents in dogs following intravenous injection, 23:26886
  - effects on blood vessels in bones of Beagle dogs following injection, effects of dose on pathological β, 23:38797
  - effects on bone and hematopoietic tissues, review of, 25:44754
  - effects on bones of Beagle dogs following injection, comparison of RBE for, with other bone-seeking radioisotopes, β, 23:38800
  - effects on bones of beagle dogs following intravenous injection, RBE for carcinogenic, in relation to radium-226, 24:34031
  - effects on bones of beagle dogs, carcinogenic, 25:24336 (COO-119-242, pp 385-401)
  - effects on bones of dial painters, review of dose-response curve for carcinogenic, 25:24336 (COO-119-242, pp 385-401)
  - effects on bones of dogs and man, latent carcinogenic β, 23:29734 (CONF-690404-3)
  - effects on bones of dogs, calculation of accumulated skeletal dose and tumor growth dynamics for, 25:29621 (COO-119-243)
  - effects on bones of dogs, RBE for carcinogenic α, 23:50833 (PHS-999-RH-33, pp 59-60)
  - effects on bones of man, estimation of dose for carcinogenic, 24:34031
  - effects on development of osteosarcomas in beagle dogs following intravenous injection, effects of time on RBE for, 24:837 (COO-119-240, pp 86-96)
  - effects on dogs, pathological, following intravenous injection, 21:24287 (COO-119-235, pp 4-70)
  - effects on hematopoietic system in beagles following intravenous injection, effects of time on, 24:818 (COO-119-240, pp 224-42)
  - effects on incidence of melanomas in beagle dogs, 25:24333 (COO-119-242, pp 211-42)
  - effects on incidence of osteosarcomas in beagle dogs following intravenous injection, 25:57918
  - effects on leukocyte count in blood of beagle dogs following injection, 24:39572
  - effects on man following exposure during industrial use of luminous paints, β, 23:10098(R) (NYO-2181-5(Vol.2))
  - effects on man following exposure during industrial use of luminous paints, β, 23:9937(R) (NYO-2181-5(Vol.1))
  - effects on man following uptake and retention, pathological, 25:24427 (MIT-952-7, pp 1-156)
  - effects on man, carcinogenic, 22:10760 (MIT-952-4, pp 1-131)
  - effects on man, carcinogenic β, 23:20402 (MIT-952-5(Pt.1), pp 1-136)
  - effects on man, long-term skeletal deposits, 21:8994
  - effects on soft tissue in Beagle dogs following injection, latent neoplastic, 23:38804
  - effects on tapetum lucidum of eyes of beagle dogs, effects of dose on pathological, 25:24334 (COO-119-242, pp 243-57)
  - excretion by thorium dioxide patients, 23:20302
  - excretion of, in Thorotrast cases, 21:4810
  - gamma emission by, effects of, on synthesis of androgen in beagles, 22:43244
  - gamma emission by, tumorigenic effects of, on bones of dogs following injection, 22:47581
  - gamma spectra from, distributed in man, computer analysis of data on, 21:8794(R) (NYO-3136-3)
  - gamma spectra of, 22:14576
  - metabolism in animals and man following intravascular administration of Thorotrast, mechanisms for, 24:27505 (ANL-7615, pp 97-115)
  - metabolism in man following injection of Thorotrast, review of tissue studies of, 23:26794
  - metabolism in man, following thorium-232 decay, 23:26667
  - metabolism of, 21:12889
  - neutron strength functions for, calculation using deformed nucleus optical model, (T), 22:27093
  - neutron strength functions for, effect of nuclear deformation on, (T), 22:18211 (NAA-SR-Memo-12538)
  - production of, 22:14576
  - purification by residue adsorption, 22:18738(R) (MLM-1417)
  - purification by solvent extraction using TBP and chromatography, 23:9504 (CEA-R-3582)
  - radiation dose to rabbits following injection of Thorotrast, β, 23:6432(T) (ANL-Trans-672)
  - radiation injuries from, after long-term deposition in human skeletons, 21:8994
  - radiochemical assay of plants for, in Brazil, 22:25829 (TID-24488)
  - recoil from alpha decay of thorium, 22:48895 (CEA-R-3493)
  - retention in bones of beagle dogs, 24:50678 (COO-119-241, pp 25-59)
  - separation from other natural radionuclides by paper electromigration, 24:5611
  - separation of carrier-free, from thorium-232 by solvent extraction using DEHPA, 25:40 (IDO-12073, pp 28-36)
  - sorption of, by manganese oxides in water works filter bed materials, 21:16006
  - sorption of, from gastrointestinal tract of dial painters, 21:8672 (MIT-952-3, pp 202-317)
  - toxicity in dogs, clinical and pathological aspects of, 22:25962(R) (COO-119-236)
  - toxicity in man, 22:10760 (MIT-952-4, pp 1-131)
  - toxicity in man, 24:19325(R) (MIT-952-6)
  - transport across placenta following intravenous injection of Thorotrast into maternal rabbits, 24:23072 (CONF-690501-, pp 121-35)
  - transport through food chains to man, 23:7972 (NYO-2577-10)
  - uptake and pathogenicity in melanocytes in dogs following eye injection, 25:24384
  - uptake by bones in animals and man, induction of neoplasms and radiation injuries following, 25:42472
  - uptake by Brazil nut seeds and tree tissues, 22:21413
  - uptake by man residing in areas of high natural background radiation in Brazil, 23:7973(R) (NYO-3273-11)
  - uptake by plants in Kerala region of India, 21:34672
- Radium Isotopes (RaA)
  - see Polonium Isotopes Po-218
- Radium Isotopes (RaB)
  - see Lead Isotopes Pb-214
- Radium Isotopes (RaC)
  - see Bismuth Isotopes Bi-214
- Radium Isotopes (RaC')
  - see Polonium Isotopes Po-214
- Radium Isotopes (RaC")
  - see Thallium Isotopes Tl-210
- Radium Isotopes (RaD)
  - see Lead Isotopes Pb-210
- Radium Isotopes (RaE)
  - see Bismuth Isotopes Bi-210
- Radium Isotopes (RaF)
  - see Polonium Isotopes Po-210
- Radium Isotopes (RaG)
  - see Lead Isotopes Pb-207
- Radium Needles
  - see Radioapplicators
- RADIUM NITRATES
  - crystal structure of, 22:25326 (NP-17364)
  - crystal structure of, x-radiographic study of cubic, 21:32171
  - preparation of, 22:25326 (NP-17364)
- RADIUM MOLYBDATES
  - crystal structure of, 22:25326 (NP-17364)
  - preparation and properties of, 23:6115
  - preparation of, 22:25326 (NP-17364)
- RADIUM ORES
  - effects of γ emission from, on biological productivity of barley and wheat, 21:4883
- RADIUM OXIDES
  - crystal structure of, 22:25326 (NP-17364)
  - electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  - preparation of, 22:25326 (NP-17364)
- Radium Plaques
  - see Radioapplicators
- RADIUM SELENATES
  - crystal structure of, 22:25326 (NP-17364)
  - preparation and properties of, 23:6115
  - preparation of, 22:25326 (NP-17364)
- RADIUM SELENIDES
  - crystal structure of, 23:40632
  - crystal structure of, 22:25326 (NP-17364)
  - preparation of, 22:25326 (NP-17364)
- RADIUM SULFATES
  - crystal structure of, 22:25326 (NP-17364)
  - decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
  - preparation and properties of, 23:6115
  - preparation of, 22:25326 (NP-17364)
- RADIUM SULFIDES
  - crystal structure of, 23:40632
  - crystal structure of, 22:25326 (NP-17364)
  - preparation of, 22:25326 (NP-17364)
- RADIUM TUNGSTATES
  - crystal structure of, 22:25326 (NP-17364)
  - preparation and properties of, 23:6115
  - preparation of, 22:25326 (NP-17364)
- RADON
  - see also Rare Gases
  - abundance and turbulent mixing in lower atmosphere, (E), 23:44230(T) (AD-679719)
  - abundance in chondrites, 22:2727
  - abundance relative to radium in Russian rivers, 25:41929
  - abundance variations in near-ground air layer, diurnal, 23:17599
  - activity in aerosols, continuous measurement of, 21:4699
  - activity in atmosphere over Indian Ocean, method and results for measuring, 22:6489
  - activity in uranium ores and minerals, 21:28110

alpha decay of, half-lives, Q values, reduced widths, and spectra from, (E), 25:28302 (CERN-70-30(Vol.1), pp 523-31)
attenuation by tantalum oxide films, 23:30106 (IA-1155)
behavior of ions in air enriched in, 21:6072
beta decay of, effect on soft-electron flux at sea level, 21:1458 (TID-23366)
book: Radon Waters and Their Therapeutic Properties, 23:12179
chemical properties of solutions of, 22:27725
concentration in Kansas State University TRIGA Mark 2 reactor containment structure, 24:22463
condensation in meteorites, (T), 22:5023
contamination in gold jewelry, hazards from, 21:36739
content in air at Dresden, August 1960 to December 1965, 21:41034
content in air in Sadkin asphalt mine in USSR, (E), 25:21379
content in air in uranium mines, maximum permissible, 23:50607
content in air masses over Arabian Sea, during southwest monsoon season, 22:47247
content in air of residences, effects of content in construction materials on, 21:28496
content in air of Vicary Creek coal mine in Alberta, Canada, 23:9542
content in air, detection device for determining, 21:3285
content in atmosphere, 21:6073
content in atmosphere at Plovdiv, Bulgaria during 1966 to 1969, 25:54792
content in atmosphere at radon-containing springs in Roumania, 21:45644
content in atmosphere in mines, rapid mixing method for reduction of, 23:41332
content in atmosphere in Warsaw, effects on γ background dose rates from, 21:39061
content in atmosphere over Arabian Sea and Indian Ocean, method for tracing monsoon flow by, 23:45412
content in atmosphere over Arabian Sea and Indian Ocean, tracing of Indian monsoon flow by, 23:29024
content in atmosphere up to 30 m, 21:6074
content in atmosphere up to 4 m, meteorological effects on, 21:6076
content in atmosphere, development of systems for monitoring, 21:26264 (ANL-7220, pp 60-3)
content in atmosphere, diurnal variations in, 22:33562
content in atmosphere, effects of altitude on, 22:51100
content in atmosphere, effects of meteorological conditions on, 24:27244
content in atmosphere, effects of meteorological conditions on, 22:37882
content in atmosphere, equation for expressing local change of, 24:46367
content in atmosphere, meteorological factors in, 21:191
content in atmosphere, method for measurement of, 24:14090
content in atmosphere, method for measurement of, 24:36422
content in atmosphere, radioactive equilibrium of, 21:19771
content in atmosphere, relations with altitude, 24:14091
content in atmospheric aerosols, effect of negative charges and vapors on, 21:6080
content in Cranberry and Sterling Lakes, New York, measurements for groundwater flow studies, 25:8350 (CU-2493-11, App.4)
content in drinking water, contamination of human body resulting from, 21:24426
content in Dublin, Ireland atmosphere, effects of meteorological conditions on, 24:14083
content in French natural waters, method for field determination of, 23:26351(T) (AEC-tr-7042)
content in gas released from volcano at Surtsey, Iceland, 22:42859
content in ground level air in Moscow, 21:6077
content in ground water, effects on chromium-51-EDTA tracer method of ground water flow measurement, 22:19075
content in ground waters in Rostov Province of Soviet Union, 21:36114
content in ground-level atmosphere, effect of meteorological factors on, 22:30726
content in hot springs and underground waters in Korea, 23:26356
content in lower atmosphere of decay products of, effects of electrical properties on, 21:6081
content in lower atmosphere, radiometric method for determining, 21:16020
content in mine atmospheres, calibration of ionization chamber for measuring, 23:22052
content in mineral waters in Rodnei Mountains, Rumania, 25:51628
content in mineral waters of Swieradow, Poland, 23:40870
content in natural waters, gamma spectrometry method for measurement of, 25:48610
content in oceans, circulation and diffusion studies on, 23:43413(R) (CU-2663-10)
content in Polish mineral waters, effects of chloride ions on, 23:45403
content in rat organs and tissues following inhalation of radon-222, 25:42248
content in respiratory system of man, effects of occupational environment on, 21:22428
content in Romanian environment, equipment for measurement of, 25:41928
content in soil air, measurement by spectral analysis of, 22:51101
content in soil and rock gas, measurement for use in uranium exploration, 23:13883 (GJO-928-1)
content in soil and water, instrumentation for determining, 23:35502
content in soils and surface waters near uranium deposits, use in uranium prospecting, 24:2326
content in soils, determination for uranium prospecting, 24:36427
content in soils, method for measurement of, 22:23139
content in surface and bottom of water column at Geosecs Station, north Pacific Ocean, 25:10727
content in the atmosphere, effect of variations of release rate on, 22:4285
content in the lower atmosphere over land and oceans, 21:6079
content in underground uranium mine air, methods for control of, 25:15792
content in uranium ores, effects on gamma spectrometric well logging measurements, 25:54759
content in USSR ground waters, effects of earthquakes on, 25:54775
content in vertical uranium drill holes, evaluation of, 24:36383 (CEA-R-3965)
content in Warsaw ground-level atmosphere, effects of meteorologic conditions on, 23:17579
content in water and soil, closed circuit technique for determining, 22:6572
content in water of therapeutic baths and laboratories, methods for measuring and controlling, 25:21715
content in water supplies, permissible limits for, 21:24451
content in waters at Bad Brambach, Germany, design and operation of detectors for measurement of, 24:16697
content in waters of Bad Brambach, Germany, dual ionization chamber measurements of, 25:54766
content in waters of neovolcanic regions of Caucasus, 24:36406
content of air exhaled by man, methods of determining, 22:33761
content of air in uranium mines, methods for measurement of, 22:45561
content of atmosphere in relation to incidence of foehn disease in man, 22:12852
content of atmosphere in uranium mines, maximum permissible concentration for, 22:21539
content of atmosphere, correlation of pressure with, 24:36414
content of atmospheric, in gamma background radiation of Warsaw, 21:10857 (CLOR-50/D)
content of blood and urine of balneotherapy patients, 24:29750
content of breath in man, 22:2506(R) (NYO-3086-7)
content of breath of personnel in radium dial painting, 22:23545
content of coal mines, 23:769 (ANL-7360, pp 68-149)
content of decay products of, in uranium mine air, effects of, on respiratory tract pathology, additive effects of diesel engine exhausts and uranium ore dusts on, in dogs and hamsters, 25:8623 (BNWL-SA-3419)
content of human breath 35 to 50 years following internal radium exposure, 23:22426 (ANL-7531)
content of human breath, effects of radium-226 body burdens on, 23:16222 (MIT-952-5(Pt.2), pp S.1-23)
content of residential buildings in Warsaw, Poland, 23:50531
content of spas, definition and comparison of balneological units for, 24:32000
content of spring waters in Japan, 23:50364
content of surface atmosphere over Arabian Sea and Indian Ocean during June to Oct. 1967, monsoon circulation studies from measurements of, 24:50461
content of uranium mine atmosphere in relation to incidence of lung cancer among personnel, ventilation system for reducing, 24:44470
content of uranium mine water, method of quantitative estimation of, 23:48065
content of, in atmosphere, 21:12531 (UCRL-50007-66-1, pp 41-3)
content of, in breath of man after radium-226 exposure, 21:12749(R) (NYO-3086-6)
content of, in Gastein baths in Austria, 21:8903
content ratio to radon decay products in French uranium mines, methods for measuring, 25:6431
content ratio to radon decay products in French uranium mines, methods for measuring, 25:29201(T) (AEC-tr-7228)
decay of, aerosol radioactivity in mines from products of, 21:16010
decay of, daughter levels in uranium mines from, 23:31300
decay products from, efficiency of fiber filters for, 25:254
decay products in air of uranium mines, performance of respiratory filters for removal of, 23:24608 (COO-1500-9)
decay products in atmosphere, method for determining hazards from, 21:45634
decay products of, accumulation in aerosols of neutral and electrically charged, 22:4226 (BMwF-FBK-67-78)
decay products of, accumulation of, in natural aerosols and polystyrene aerosols, 22:37765
decay products of, analysis of air by two-filter method for, 23:6072
decay products of, atmospheric radioactivity produced by, 21:6497(T) (AEC-tr-6828)
decay products of, contamination of atmosphere by, 22:43342
decay products of, content of uranium mines, measurement and control of, 25:11043
decay products of, deposition in respiratory tract of uranium miners, 23:38582
decay products of, deposition of, in human respiratory tract, 23:48032
decay products of, design of respirators for protection of miners against, 24:727
decay products of, distribution in atmosphere above Soviet Union of, 21:34339
decay products of, distribution in mine air of short-lived, 25:44451
decay products of, distribution in respiratory mucosa of dogs and rabbits, 24:44411
decay products of, distribution of chaged particles among free short-lived, (E), 24:27233(T) (AD-698441)
decay products of, dosimetry in uranium mining personnel, 24:9828(R) (PB-186358)
decay products of, effectiveness and hazards of tracer use of, in aerosols, 23:50259
decay products of, effects of, on nitrifying bacteria, 21:9031
decay products of, effects of, on radioactivity in surface atmosphere in Japan, 21:14664
decay products of, effects on cardiopulmonary function in uranium mines, α, 24:27567
decay products of, effects on incidence of lung cancer in dogs and hamsters following inhalation, 24:25558 (BNWL-SA-3027)
decay products of, effects on incidence of lung cancer in uranium miners, 23:26917
decay products of, effects on lungs of man following occupational exposure to daughters of, review of carcinogenic α and γ, 24:27601 (CONF-691001-, pp 3-12)
decay products of, effects on radioactivity of air in uranium mines, 24:23184 (NP-18195)
decay products of, efficiency of filter materials for, 24:16761
decay products of, engineers guide to, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
decay products of, hazards to personnel in polymetallic mines, method for assessment of, 24:23203
decay products of, in atmosphere, removal of, 21:388
decay products of, in man, apparatus for measuring, 21:18060
decay products of, in mine air, effects of aerosol particle size on distribution of short-lived, 25:263
decay products of, in surface layer of atmosphere, stationary vertical profiles for short-lived, 25:54787
decay products of, in underground uranium mine air, methods for control of, 25:15792
decay products of, in uranium mines, methods for determining content of, 22:19328(R) (COO-1500-5)
decay products of, performance of various alpha detection systems for detecting inhalation of, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
decay products of, radiation dose from, to human uranium miners in relation to lead-210 content of bones, 22:31082
decay products of, radiation dose to human lungs, difficulties establishing relation of effects to, 23:26787
decay products of, radiation dose to uranium miners, method for in vivo measurement of lead-210 for estimation of γ, 23:26786
decay products of, silicon surface-barrier detector for equilibrium measurements in uranium mines of, 23:31519 (UCRL-50007-68-3, pp 34-8)
decay products of, standards for protection against hazards in uranium mines from, 22:33824
decay products of, toxicity of, to uranium mining personnel following inhalation, mechanisms of, 23:45770 (CEA-CONF-1315)
decay products, in uranium mine air, 23:11671
detection of, design of dosimeter for, 21:8628(P)
determination in air by filter pack method, 24:26997
determination in air, design of zinc sulfide scintillation counter for, 25:46625
determination in air, evaluation of direct and indirect methods for, 22:48833
determination in air, scintillation detector chamber for, 24:16835 (SZS-11/69)
determination in breath, radiometric, 25:37803 (EUR-4612, pp 547-58)
determination in mine atmospheres, equipment for, 21:43382
determination in mineral waters in Rumania, 23:6071
determination in rock using alpha spectrometers, 21:1448
determination in soil and water for uranium prospecting, instruments for, 23:11798
determination in soils as basis for uranium prospecting, equipment for, 23:41021
determination in water by precipitation of daughter products with zinc sulfide (silver) scintillation powder and counting, 23:35006
determination of airborne decay products of, in uranium mines, air sampler for, 25:23770 (MIT-952-7, pp 183-210)
determination of, in natural water by concentration on activated carbon, 21:4443
determination of, methods for, 21:14172
determination of, procedures for geochemical, 22:48812 (CEA-R-3557)
diffusion coefficients for rocks, instantaneous source method for measuring, 22:40220
diffusion in alcohol, kerosene, and water from uranium ores and minerals, 21:28110
diffusion in anisotropic ceramic oxides, 21:41681
diffusion in lower 1000 feet of atmosphere, turbulent, 25:44602
diffusion in lunar rocks and soils, 25:54440
diffusion in monocrystalline uranium carbide and uranium dioxide, determination by channeling techniques, 23:34094
diffusion in the ground, distances and implications of, 22:2205
diffusion in troposphere, 25:48659 (FRNC-TH-40)
diffusion in troposphere, numerical model for, 25:10704 (NP-18609)
diffusion of decay products of, in lower troposphere, 24:27245
diffusion through porous materials in plane and spherical geometries, 22:10355 (MIT-952-4, pp 300-38)
distribution in atmosphere, measurement of vertical, 24:36412 (JUL-603-ST, pp 254-9)
distribution in atmosphere, model for studying three-dimensional time-dependent, 24:31496
distribution in seawater, atmosphere—sea gas exchange rates from measurements of vertical, 24:39089
distribution in surface atmosphere layer, vertical, 23:29012
distribution in troposphere over USSR during 1963 to 1968, 24:41442

- distribution of decay products of, in human respiratory tract following inhalation, model for, 25:37712 (BNWL-1551(Pt.2), pp 65-9)
- distribution of decay products of, in lower troposphere, relations of altitude and turbulent diffusion on, 23:40884
- distribution of, in man and rat following whole-body baths, 21:8896
- dosimetry of, computer program for, 21:43396
- dosimetry of, description of sensitive film badge for, 21:17898
- dosimetry of, evaluation of physical data for, 25:26769
- effects of, in mineral waters on uric acid excretion, 21:16288
- effects of, on natural background radiation, 21:6468
- effects on activity of redox enzymes in rat liver following ingestion in water, effects of dose on, 25:42279
- effects on activity of transaminases in serum and tissues of rats, α, 23:48213
- effects on ascorbic acid content and radioactive iodine sorption in rat adrenal and thyroid glands following intragastric administration in water, 25:32352
- effects on cysteic acid content of fingernails of uranium miners, chromatographic and oscillopolarographic studies on, 25:13369
- effects on detection of environmental contamination, 23:20246
- effects on distribution of silica dust in lungs of rats, 24:4549
- effects on enzyme activity in rat liver, 25:32588
- effects on false aneurysm production after use for radiotherapy of carcinoma of pharynx, 21:16477
- effects on gamma spectroscopy in boreholes, 25:21176
- effects on hormonal activity of human ovaries following therapy for uterine myoma, α, 24:32243
- effects on human eyes following therapy of eyelid tumors, 22:40905
- effects on human populations in India, 25:37807 (NP-18729)
- effects on ion balance in atmosphere, 25:54786
- effects on ionization in atmosphere, (E), 24:5048 (N-69-34536)
- effects on lead-210 content of Indian ground-level atmosphere, 23:24311
- effects on lungs of uranium miners, carcinogenic, 23:9965
- effects on lungs of, rats following inhalation in combination with toxic dusts, carcinogenic, 24:51039
- effects on lungs, cigarette smoking control unit for correlation studies on, 23:45575 (BNWL-1051(Pt.3), pp 38-43)
- effects on lymphocytes in vitro following inhalation by patients with kidney diseases, 25:55346
- effects on medical personnel in thermal spas in Bohemia, 24:2812
- effects on nitrogen-protein metabolism in rats, sulfur-35 tracer study on, 25:21558
- effects on organs and tissues, distribution of decay products following therapeutic, 23:8032
- effects on osmotic resistance of human erythrocytes, 21:22677
- effects on oxidative phosphorylation in rat tissues, 25:57932
- effects on respiratory tract, 21:22353
- effects on serum proteins of chickens exposed as embryos, environmental, 21:28626
- effects on water-electrolyte metabolism following inhalation by man with hypertension, 24:888
- effects on Yoshida sarcoma in rats following inhalation of radon-containing air, effects of cytostatic drug on, 24:12265
- electromigration of oxidized, in fluoride solutions, 25:15572
- electron radial distribution functions for, calculation from relativistic Hartree—Fock wave functions, 24:15170 (CEA-R-3929)
- electron scattering on, cross sections for, 21:7008
- emission from ground, methods for measurement of, 23:2418
- emission from materials in enclosed spaces, methods for measurement of, 25:26356
- emission from radioactive minerals into atmosphere and water, 25:15774
- emission rate in uranium mine, method for measurement of, 24:17041
- energy of, calculation from relativistic Hartree—Fock wave functions, 24:15170 (CEA-R-3929)
- excretion by man, 23:2827
- filtering of decay products of, properties of respirator filter materials for, 23:47681
- filtration of decay products of, by coarse fibrous filters and screens, effects of aerosols on, 24:39078 (NRL-7047)
- filtration of decay products of, efficiency of filters for, 24:36475
- formation of, preparation of dry thorium-228 source for, 21:19710
- fractional retention of, versus time after exposure in radium cases, 21:8846 (MIT-952-3, pp 1-201)
- gamma constants for radiotherapy applicators of, specific, 25:19002
- gamma spectra for, in boreholes compared with uranium ores, 25:23712
- hazards to man following ingestion, 23:50909
- hazards to uranium mine personnel, 25:16120
- health hazards to uranium miners from, development of safety standards for minimizing, 23:16294
- inhalation by rats, effects of, on development of experimental silicosis, 23:24537
- inhalation by rats, lead-210 and polonium-210 distribution following, 23:24537
- inhalation by uranium miners, 21:20167(R) (COO-1500-3)
- inhalation by uranium miners, development of pressurized air-purification respirator for prevention of, 24:14139
- inhalation by uranium mining personnel, comparison of bioassay and personal air sampling methods for monitoring, 25:52068 (COO-1500-18)
- inhalation of aerosols of, hazards to mice from, 21:28596 (UR-669)
- inhalation of aerosols of, in relation to protection of uranium miner by respiratory equipment, 23:14215
- inhalation of, effects of, on catecholamine content of human urine, effects of hypertension on, 23:45661
- intracavitary radiotherapy for treatment of retinoblastoma in eye of man with, 21:8848
- ion ranges and stopping powers in, tables of heavy, 24:25971
- ionization potentials for, calculation using Hartree—Fock wave functions, 23:41941
- leak testing for radium capsules, methods for, 24:19314
- leakage from radium containers, method for testing for, 24:418
- leakage from radium needles, plaques, and tubes, technique for detection of, 22:2515
- leakage from sealed radium source, photographic method for detection of, 25:57707
- leaks in radium containers, detection and plugging of, 23:35814 (ACRH-31, pp 134-43)
- loss from radioactive minerals, measurement by α spectroscopy of, 22:6438
- loss of, effect on gamma assay of radioactive ores, 21:40998(T) (AEC-tr-6900)
- measurement in air, 22:19342
- measurement in air above Atlantic Ocean, 21:191
- measurement in atmosphere, design of installation for, 21:187
- measurement in ground-level air, technique for, 22:27936
- measurement in Indian soils, use for uranium exploration, 25:41945
- measurement of short-lived decay products in free atmosphere, aircraft-mounted instrument for, 25:23800
- measurement of, in air at high altitudes, 21:10462 (NP-16438)
- measurement of, in air, design of miniaturized instrument for, 21:10683
- metabolism of aqueous solutions of, in dogs and mice, 21:8730
- monitoring during processing of uranium ores, design and performance of integrating air sampler for, 23:14105
- monitoring in atmosphere and seawater, equipment for, 24:46472 (NP-18404)
- monitoring in atmosphere, design and operation of air sampler for, 25:367 (CEA-R-4048)
- monitoring in atmosphere, electrostatic sampler and detector system for, 25:55032
- monitoring in atmosphere, equipment and methods for, 23:38119
- monitoring in atmosphere, ionization detector for low-level, 24:36588
- monitoring in exposure chamber, development of surface-barrier detector for, 24:25256(R) (BNWL-1307(Pt.3))
- monitoring in lower stratosphere, Project Airstream for, 21:43057(R) (HASL-183)
- monitoring in the air, sampler for continuous, 25:44602
- monitoring in uranium mines, 21:39409(T) (LA-tr-67-66)
- monitoring in uranium mines, prototype scintillation survey meter for, 25:44585 (NYO-3086-10(Vol.2), pp II.1-31)
- monitoring of daughters of, solid-state alpha detectors for personnel, 23:9939 (ORNL-4316, pp 231-69)
- monitoring of decay products of, photographic film system for personnel, 25:42171
- monitoring of, alpha scintillation detector system for, 23:45510 (BNWL-1051(Pt.3), pp 30-5)
- monitoring of, dielectric track detector for personnel, 24:46524(P)
- monitoring of, in air of residences, 21:28495
- monitoring of, solid-state alpha detectors for personnel, 23:9939 (ORNL-4316, pp 231-69)
- oxidation by bromine fluorides, chlorine fluorides, iodine heptafluoride, and fluoronickelate ion in hydrogen fluoride at -195 to 25°C, 25:15572
- oxidation of aqueous solutions of, 21:23869
- penetration into filters, measurement of, 21:10472
- production by proton reactions with thorium targets at ISOLDE, 25:44402 (BMBW-FBK-70-28, pp 158-67)
- radioactivity standards of, users' guide for, 22:33474 (NP-17502)
- radiochemistry of compounds of, review of, 21:138
- radium content in, use of silver-activated zinc sulfide scintillation detectors for determining, 21:26199
- ratio to radium-226 in bones of beagle dogs, equation for, 24:50680 (COO-119-241, pp 69-78)
- reactions with alkali metal atoms, mixing in ^{2}P state in inelastic, (T), 22:29284
- reactions with interhalogens or NiF$_4^{2-}$ in hydrogen fluoride at -195 to 25°C, yields of radon fluorides from, 24:31325
- release from solids by recoil and knockout, 25:48564
- removal from atmosphere, mechanisms of, 24:22795
- removal of aerosols of, and daughter nuclides from radioisotope storage facility following accidental contamination, 21:8829
- removal, design of system of, for NASA lunar sample laboratory, 23:769 (ANL-7360, pp 68-149)
- sampling methods for, in Illinois atmosphere, 1966, (E), 22:8220(R) (COO-1199-14)
- separation from air streams, relations of air velocity with filter efficiency for, 25:2414 (AD-707709)
- separation from carbonaceous rocks, effects of temperature on, 23:410
- separation from radium-226-labeled radium chloride in aged persulfate solution, 22:33523
- separation from xenon, 22:18688 (HNS-1229-57)
- solubility in water, effects of deuterium on, 25:20977
- sorption by aerosols, analysis of diffusion parameters affecting, 23:21820(T) (AERE-Trans-1106)
- sorption of decay products of, to polydisperse submicron polystyrene aerosols, mechanisms in, 22:51621
- sorption on activated carbon, effects of moisture on, 22:25503
- supplies in Australia, care and maintenance of, 22:49324(R) (NP-17266)
- thermophysical properties of, below 300°K, 21:23856 (BM-IC-8317)
- toxicity to mining personnel following inhalation, mechanisms of, 23:45770 (CEA-CONF-1315)
- turbulent diffusion coefficients of, in atmosphere, diurnal variations of, 21:16018
- uptake and distribution of decay products of, in guinea pigs following inhalation, 22:40602
- uptake and excretion of, following inhalation by man, 23:29493(T) (AEC-tr-7020)
- uptake by man, effects of occupational exposure on, 21:36573 (HASL-32)
- uptake of dust-borne, by inhalation, 23:2827
- use for detection of geological faults, 22:14693
- use for scanning in diagnostic and metabolic studies, development of computer programs for, 25:8716
- use for therapy of cervical carcinomas, effectiveness of seed implants for, 23:31875
- use for therapy of retinoblastoma of human eye, 21:28565
- use in hospitals and research centers in Australia, 21:14359(R) (NP-16386)
- use in radiotherapy of oral cancers, radioinduced mandibular necrosis from, 21:18164
- use in study of solids, 21:38934
- use of natural, for tracing monsoon currents in atmosphere over Arabian and Indian Seas, (E), 25:29220
- use of natural, in tracer technique for measuring groundwater flow into lakes, 25:8350 (CU-2493-11, App.4)
- use of, for intracavitary radiotherapy of neoplasms, 21:12891 (BNL-9598)
- use of, for therapy of cutaneous hemangiomas, evaluation of, 21:6583
- use of, for therapy of prostatic carcinomas, evaluation of, 21:6582
- use of, in natural waters, for radiotherapy, design of building and equipment for, 21:12944
- washout from atmosphere, method for measuring, 25:54802
- x-ray emission from decay of K-shell vacancies in, relative rates of, (E), 25:16786
- p-cresol—Rn—Xe, crystallization of clathrate of, 21:17640

RADON CHLORIDES
- formation of, heat of, 22:16556
- properties and structure of, 22:16556

RADON FLUORIDES
- formation of, heat of, 22:16556
- preparation by oxidation of radon by interhalogens or NiF$_4^{2-}$ ions in hydrogen fluoride at -195 to 25°C, 24:31325
- properties and structure of, 22:16556

RADON IONS
- ionization energy of, calculation of second, 23:18424
- production of pure beams of, isotope separator operating on-line to CERN 600-MeV synchrocyclotron for, 23:3890
- range of radon-222 at 0.1 to 1.0 MeV in oriented tungsten single crystals, electronic and nuclear stopping in, (E), 21:40092
- reactions with sodium chloride single crystals at 30 to 500 keV, effects of doping on thermal release following, (E), 23:42427

RADON ISOTOPES
- alpha decay of, alpha energies, half-lives, and branching ratios for, 21:44670 (UCRL-17723)
- alpha decay of, α energies and half-lives for, (E), 21:38364
- book: Radon Isotopes and Short-Lived Products of Their Natural Decay (In Russian), 23:29003
- content in air of confined areas, maximum permissible, 25:13435
- content in Romanian mineral waters, effects of rock structure on, 22:27896 (IFA-IS-44)
- content in Tashkent mineral waters, effect of earthquakes on, 22:8211
- content of near-ground atmosphere, determination of surface atmosphere turbulence by measurements of, 24:41448
- decay of, distribution in atmosphere of products from, 22:37883
- decay products distribution in air, effects of aerosol particles on, 22:40264
- determination of radon and radon daughters in uranium mines, method for, 23:9731(R) (NYO-3136-6)
- effects on development of lung cancer in uranium mining personnel, use of bone content of lead-210 for time-dose study of α and γ, 23:29546 (UR-49-1065)
- electron-capture decay of neutron-deficient, (E/T), 25:14993
- fission of isomers of, search for spontaneous, 25:17924
- formation and properties of, 23:29003
- hazards to uranium mining personnel, protection against, 23:18121
- production and distribution between July 1969 and July 1970 in Australia, 25:24188(R) (NP-18727)
- production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
- radiation hazards of confined nonequilibrium, 25:13435
- radioactivity standards of, users' guides for, 25:29174
- separation of short-lived, electromagnetic method for, 25:34806 (JINR-P13-5757)
- uptake by animals, mechanisms of, 21:43415
- use in prospecting, geologic mapping, and studies of atmospheric phenomena, 23:29003

Radon Isotopes (An)
- see Radon Isotopes Rn-219

RADON ISOTOPES Rn-199
- fission of shape isomeric, half-life for spontaneous, (E), 24:15928

RADON ISOTOPES Rn-200
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451

RADON ISOTOPES Rn-201
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- nuclear properties of, Nuclear Data Sheets for, (E), 25:39014

RADON ISOTOPES Rn-202
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, half-life for, (E), 23:21307
- fission of shape isomeric, half-life for spontaneous, (E), 24:15928
- nuclear properties of, Nuclear Data Sheets for, (E), 25:39015

RADON ISOTOPES Rn-203
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- fission of shape isomeric, half-life for spontaneous, (E), 24:15928
- nuclear properties of, Nuclear Data Sheets for, (E), 25:36809

RADON ISOTOPES Rn-204
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, half-life for, (E), 23:21307
- fission of shape isomeric, half-life for spontaneous, (E), 24:15928
- nuclear properties of, Nuclear Data Sheets for, (E), 25:39016

RADON ISOTOPES Rn-205
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, half-life for, (E), 23:21307
- beta decay of, gamma spectra from, (E), 25:50719 (JINR-P6-5878)

RADON ISOTOPES Rn-206
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios and hindrance factors for, (E), 25:43887 (JINR-P6-5791)
- alpha decay of, half-life for, (E), 23:21307
- fission of shape isomeric, half-life for spontaneous, (E), 24:15928

RADON ISOTOPES Rn-207
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios, half-lives, hindrance factors, and spectra from, (E), 25:43887 (JINR-P6-5791)
- beta decay of, gamma spectra from, (E), 25:50719 (JINR-P6-5878)
- energy levels and properties of, nuclear data sheets for, 25:28378

RADON ISOTOPES Rn-208
- alpha decay of, alpha spectra, half-life, and branching ratio for, (E), 25:20451
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios, half-lives, and hindrance factors for, (E), 25:43887 (JINR-P6-5791)
- energy levels and properties of, nuclear data tables for, 25:28375

RADON ISOTOPES Rn-209
- alpha decay of, branching ratios, half-lives, hindrance factors, and spectra from, (E), 25:43887 (JINR-P6-5791)
- beta decay of, gamma spectra from, (E), 25:50719 (JINR-P6-5878)
- energy levels and properties of, nuclear data sheets for, 25:28376
- energy levels of, spin—parity assignments for, (E), 23:15439

RADON ISOTOPES Rn-210
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios, half-lives, and hindrance factors for, (E), 25:43887 (JINR-P6-5791)
- nuclear properties of, Nuclear Data Sheets for, (E), 25:39017

RADON ISOTOPES Rn-211
- alpha decay of, (E), 24:28773 (JINR-P6-4972)
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios, half-lives, hindrance factors, and spectra from, (E), 25:43887 (JINR-P6-5791)
- electron capture decay of, in benzene, reactions of recoil astatine-211 from, 25:8284(T) (ANL-Trans-870)
- energy levels and properties of, nuclear data sheets for, 25:28377
- energy levels from radium-215 decay, (E), 25:7868

RADON ISOTOPES Rn-212
- alpha decay of, 24:28773 (JINR-P6-4972)
- alpha decay of, α energy and half-life for, (E), 21:38364
- alpha decay of, branching ratios, half-lives, and hindrance factors for, (E), 25:43887 (JINR-P6-5791)
- production of, by francium-212 decay, 21:138

RADON ISOTOPES Rn-214
- alpha decay of, half-life for, (E), 25:7852 (UCRL-19530, pp 1-52)
- yields from alpha decay of thorium-222, 25:15011

RADON ISOTOPES Rn-215
- alpha decay of, alpha energy from, (E), 24:6943
- alpha decay of, half-life for, (E), 25:7852 (UCRL-19530, pp 1-52)

RADON ISOTOPES Rn-217
- alpha decay of, half-life for, (E), 25:7852 (UCRL-19530, pp 1-52)

RADON ISOTOPES Rn-218
- alpha decay of, half-life for, (E), 25:7852 (UCRL-19530, pp 1-52)
- alpha decay of, half-life measurement of, 25:18703
- diffusion from lanthanum and uranyl stearates, 24:13987

RADON ISOTOPES Rn-219
- alpha decay of, α—γ linear polarization measurements for spin determination in, (E), 25:17948
- alpha decay of, gamma spectra and α—γ angular correlations for, (E), 25:17879
- alpha decay of, polonium-215 energy levels from, (E), 21:23493
- charge of recoil atoms of, in alpha decay of radium-233, 23:40701
- content in deep-sea sediments, age estimation from, 24:22800
- emanation from lunar materials, (E), 25:35831
- emission from radioactive minerals into atmosphere and water, 25:15774
- energy level at 127 keV, half-life for, (E), 24:13354
- energy level at 260 keV, lifetime of, (E), 24:52612
- energy levels from alpha decay of radium-223, (E), 22:11947 (MIT-952-4, pp 220-66)
- energy levels from radium-223 decay, spin determinations using α-γ angular correlations, (E), 21:27571 (MIT-2098-299, pp 66-73)
- energy levels from radium-223 decay, spins and parities of, (E), 25:20456
- energy levels from radium-223 decay, spins, parities, and multipolarities for, (E), 24:13354
- gamma spectra of, 21:12380(R) (MLM-1342)
- gamma spectra of, in coincidence with alpha groups from radium-223, 21:12380(R) (MLM-1342)
- gamma spectra of, line intensities in, (E), 22:44746
- gamma spectra, (E), 22:20656
- half life, (E), 21:5557
- half-life of, separated from radium-223, 21:12380(R) (MLM-1342)
- measurement in air, 22:19342
- separation of, from radium-223, equipment and method for, 21:12380(R) (MLM-1342)
- turbulent diffusion coefficients of, in atmosphere, diurnal variations of, 21:16018

RADON ISOTOPES Rn-220
- activity in aerosols, continuous measurement of, 21:4699
- activity in atmosphere over Indian Ocean, method and results for measuring, 22:6489
- activity measurements for determining thorium-228 content in natural materials, 22:2376
- alpha decay of, directional correlations in, (E), 21:1095
- behavior of ions in air enriched in, 21:6072
- beta spectra of, detection of very weak Auger lines in, 22:50619
- clearance from lungs of dogs following inhalation of thorium-228-enriched thorium dioxide, 25:49082
- content in air at Cincinnati, Ohio, measurement of, 22:2236
- content in air at Frederick, Maryland in November, 1970, 25:25718(R) (MNC-3783-9)
- content in air, detection device for determining, 21:3285
- content in atmosphere, 21:6073
- content in atmosphere at Plovdiv, Bulgaria during 1966 to 1969, 25:54792
- content in atmosphere to 8 m, meteorological effects on, 21:6075
- content in atmosphere up to 30 m, 21:6074
- content in atmosphere up to 4 m, meteorological effects on, 21:6076
- content in atmosphere, effects of altitude and electrical carriers on, (E), 22:51100
- content in atmosphere, method for measurement of, 21:6070
- content in atmosphere, method for measurement of, 24:14090
- content in atmosphere, use as tracer for eddy mass transfer, 24:25137
- content in breath of patients following Thorotrast injection, 21:22530
- content in Central Florida atmosphere, effects of rainfall on, 22:40209 (SC-RR-68-196)
- content in deep-sea sediments, age estimation from, 24:22800
- content in ground level air in Moscow, 21:6077
- content in hot spring waters in Japan, 22:6447
- content in near-ground air, ratio with radon-222, 22:35945
- content in soil air over faults, 21:36118
- content in soil air, measurement by spectral analysis of, 22:51101
- content in soils, method for measurement of, 22:23139
- content in surface layer of atmosphere, effect of altitude on, 21:36113
- content in the atmosphere, effect of variations of release rate on, 22:4285
- content in Warsaw ground-level atmosphere, effects of meteorologic conditions on, 23:17579
- content of breath in relation to thorium content of body, 22:15000 (NLCO-1007)
- content of, in atmosphere, 21:12531 (UCRL-50007-66-1, pp 41-3)
- content ratio to radon-222 in soil gas, closed circuit method for measurement of, 25:2378
- decay of, determination of products from, by alpha counting and weighted least squares method, 23:47391
- decay of, distribution in atmosphere of products from, 22:37883
- decay products in atmosphere, method for determining hazards from, 21:45634
- decay products of, atmospheric radioactivity produced by, 21:6497(T) (AEC-tr-6828)
- decay products of, distribution in lungs of rodents in Brazil, 24:31894
- decay products of, effectiveness and hazards of tracer use of, in aerosols, 23:50259
- decay products of, in surface layer of atmosphere, stationary vertical profiles for short-lived, 25:54787
- decay products of, uptake of, by organs of mammals, effects of organ affinity on, 23:47950
- deposition from decay of thorium oxide, spectral studies on gaseous electro-, 23:333
- deposition of inhaled, in organs of rats, effects of caging on, 22:2506(R) (NYO-3086-7)
- diffusion and mobility of decay products of, in atmosphere, 23:38107
- diffusion at and below room temperature in uranium monocarbide single crystals, interstitial, 23:25448
- diffusion constant in paraffin, lard, and styropor, 21:21931
- diffusion from ground, disintegration chamber and nuclear emulsion methods for measurement of, 24:41440
- diffusion from soils, effects of meteorological parameters and physical properties of soil on, 24:9521
- diffusion in atmosphere, method for measurement of, 24:44124 (NP-18349)
- diffusion in bacon, 23:6268
- diffusion in helium, apparatus for measurement of, 23:11488
- diffusion in helium, effects of temperature on, (E), 22:11022(R) (NYO-1710-71)
- diffusion in paraffin, 23:6268
- diffusion in styropor, 23:6268
- diffusion in troposphere, 24:22788 (NP-18186)
- diffusion in troposphere, numerical model for, 25:10704 (NP-18609)
- distribution in animals and man following inhalation, 23:29322
- distribution in atmosphere, effects of wind velocity on vertical, (E/T), 25:29225
- distribution of decay products of inhaled, in rat tissues, 21:12749(R) (NYO-3086-6)
- dose to man in Brazil, measurement of, by breath analysis and whole-body counting, 22:25829 (TID-24488)
- dosimetry in atmosphere of Brazil, use of scintillation flask for, 22:25829 (TID-24488)
- effects of inhaled, on respiratory tract, 21:22353
- effects on detection of environmental contamination, 23:20246
- effects on human populations in India, 25:37807 (NP-18729)
- effects on human respiratory tract following inhalation, 25:44949
- effects on mitosis in kidney cells of mice following inhalation, 25:8763
- effects on mitotic activity in kidneys of rats following inhalation, α and γ, 24:29734
- emanation from lunar materials, (E), 25:35831
- emission from ground, methods for measurement of, 23:2418
- energy-level transitions in, internal conversion coefficients for $2^+ \rightarrow 0^+$, (E), 23:21331 (MIT-952-5(Pt.1), pp 200-314)
- excretion by man in relation to whole-body content, 23:29328
- exhalation from ground, method for direct measurement of, 23:40864
- filters for, effect of aerosol particle size on efficiency of, 22:215(T) (LA-tr-67-81)
- formation of, preparation of dry thorium-228 source for, 21:19710
- inhalation by mammals, tissue distribution and dosimetry following, 23:29790
- inhalation by rats, bismuth-212 content relative to lead-212 in tissues following, 25:46683
- measurement in air, 22:19342
- measurement in atmosphere, installations for, 21:187
- metabolism in man following injection of Thorotrast, review of tissue studies of, 23:26794
- metabolism in man, following thorium-232 decay, 23:26667
- metabolism of, 21:12889
- monitoring in air using cellulose nitrate track detectors, 25:44646
- monitoring in atmosphere, equipment and methods for, 23:38119
- natural activity in aerosols, continuous measurement of, 21:4699
- penetration into filters, measurement of, 21:10472
- preparation of α-sources of, from thorium-228, 22:36005
- production in plutonium-238 dioxide SNAP fuels, safety hazards from, 23:9653 (SC-RR-68-832)
- properties of, chemical, physical, and radioactive, 21:12889
- radioactivity of, calibration technique for flowthrough detector for determining, 22:40372
- reactions of aerosols of, with carbon aerosols, 21:41036
- release from soils, use of ionization chamber for measurement of, 21:28081
- release rate of, effect on lead-212 concentration on changes in, 22:4285
- sampling of aerosols of, efficiency and performance of filters for, 23:13926
- scavenging from atmosphere by aerosol particles and water droplets, methematical model for describing, 25:29217
- sorption by aerosols, analysis of diffusion parameters affecting, 23:21820(T) (AERE-Trans-1106)
- spectra of, L Auger lines in, (E), 24:23746
- transfer from soil to atmosphere, measurement of, 22:45518
- turbulent diffusion coefficients of, in atmosphere, diurnal variations of, 21:16018
- uptake by man following inhalation, 22:33715 (SZS-15/67)
- uptake from atmosphere or bath water by guinea pigs and man, 21:41427
- use as tracer for measuring atmospheric diffusion, 23:7643
- use as tracer to measure near-ground atmospheric turbulence, 23:2426
- use as tracer to study atmospheric transport, 24:39083
- use for measuring aerosol penetration into filtering layers, 22:25826 (CEA-R-3347)
- use for measuring aerosol penetration into filtering layers, 22:45503(T) (ANL-Trans-655)

RADON ISOTOPES Rn-222
abundance at 4500 m above Atlantic, Antarctica, and Paris, 22:17511
accumulation in rat body, effects of tail ligature on, 25:32535
activity measurement of, in water, IAEA environmental sample intercomparison of, 23:31485 (UCRL-50007-68-3, pp 53-8)
activity measurements for determining radium-226 content in low-level samples, 22:2377
attachment coefficients of aerosols containing, cellulose nitrate track detectors for measuring, 25:44794
attachment of decay products of, to naturally occurring aerosols, mechanism for, (E/T), 25:44453 (NYO-3086-10(Vol.2), pp III.1-24)
chemical properties of solutions of, 22:27725
concentration in uranium mines, non-vented air circulation system for reducing, 23:22288 (NYO-3086-8, pp VII.1-29)
content in air at Cincinnati, Ohio, measurement of, 22:2236
content in air filters, use of liquid scintillation detectors for direct determination of, 21:16188
content in air, electrostatic precipitation equipment for measurement of, 21:4686 (CLOR-47/D)
content in Atlantic and Pacific Oceans, 22:4294
content in Atlantic and Pacific Oceans, measurements of, 21:43070 (CU-2663-8, App.R)
content in atmosphere at Sterling, Virginia, meteorological effects on, 21:3184
content in atmosphere in relation to daughter products, alpha spectroscopy method for determination of, 22:30722
content in atmosphere near mountains, use as tracer to study behavior of cloud systems, 24:20898
content in atmosphere near uranium tailings piles, 23:40532 (IDO-12071, pp 18-24)
content in atmosphere over uranium mills in New Mexico and Wyoming, 25:40 (IDO-12073, pp 28-36)
content in atmosphere, airborne measurements of, 24:20895
content in atmosphere, effects of soil freezing on, 22:40262
content in atmosphere, in the Washington, D. C. area, August 1965, 21:1464
content in atmosphere, method for measurement of, 21:6070
content in atmosphere, methods for measurement of, 24:324
content in atmosphere, use of zinc sulfide scintillation detectors for measuring, 21:26200
content in cave air in Budapest, method for measurement of, 25:51621
content in Central Florida atmosphere, effects of rainfall on, 22:40209 (SC-RR-68-196)
content in gas from Awara Hot Springs in Japan, 23:31421
content in ground waters near Seoul, Korea, 22:27903
content in groundwaters, streams, and small lakes in Experimental Lakes Area, Ontario, (E), 25:8352 (CU-2493-11, App.6)
content in Illinois atmosphere, corn, and soils, measurement of natural radioactivity from, 22:171 (PHS-999-RH-26)
content in lower atmosphere over central Illinois during July to Sept. 1967, vertical distribution of, 25:279
content in lower stratosphere, Project Airstream measurements of, Jan. 1968, 22:25527 (HASL-193, pp I.33-207)
content in man at various time intervals following ingestion of radium-226, methods for calculation of, 25:8669 (COO-2088-1)
content in mine air, relation of, to polonium-210 content of polonium-210 in urine of uranium mine personnel, 24:50795(T) (ANL-Trans-847)
content in near-ground air, ratio with radon-220, 22:35945
content in near-surface seawater near Antarctica, (E), 24:19111
content in North Atlantic trade winds, relations with dust transport from Africa, 24:16705
content in river waters in Czechoslovakia, (E), 25:54774
content in Romanian mineral water springs, 22:14584
content in soil air over faults, 21:36118
content in surface atmosphere along slopes of Mauna Loa Volcano, Hawaii, Aug. 1967, 24:16704 (SU-326-PA-16-3)
content in surfaces of closed basin lakes in western US, 23:49930 (CU-2493-10(App.B))
content in troposphere at Warsaw, effects of fog on, 22:23166
content in uranium mine air, relations with daughter products, 23:24306
content in urban-rural atmosphere, meteorological effects on, 22:16712
content in water samples in Finland, 23:49733 (SFL-A-14)
content in western hemisphere lower stratosphere during Nov. 1967, 22:21202 (HASL-184, pp I.119-223)
content of aerosols over eastern Mediterranean Sea, effect of sea surface conditions on, 24:25129
content of air, determination for man of MPC of, 23:12060 (CEA-R-3583)
content of atmosphere in Colorado and Utah in relation to uranium mill tailings, 23:38561
content of atmosphere of mines, effects of barometric pressure on, 23:26771
content of body fluids of uranium mining personnel, relation of, to lead-210 content of bones, 24:17015
content of breath for estimating radium-226 content of man, 23:29493(T) (AEC-tr-7020)
content of breath in relation to radium-226 content of man, 22:31090
content of coal mines in England and Scotland, 22:48918
content of Green and Round Lakes, Fayetteville, New York, 22:45182
content of ground waters in New Zealand during 1969, 24:48465(R) (NP-18401)
content of man in Finland from natural sources, 25:18931 (NYO-3446-14, Paper 30)
content of natural gas, NCRP regulations for, 22:25853
content of natural waters at Masutomi spa area in Japan in relation to daily ingestion limits, 25:13470
content of uranium mines, instrumentation for measuring, 23:20217 (MIT-952-5(Pt.1), pp 315-409)
content of, in coal and ore mines in Czechoslovakia, 1962 to 1965, 21:10449
content of, in mineral water in Italy, 21:6523
content ratio to radon-220 in soil gas, closed circuit method for measurement of, 25:2378
decay of, determination of products from, by alpha counting and weighted least squares method, 23:47391
decay products of, content of atmosphere of uranium mines, 23:38559
decay products of, dosimetry following inhalation in relation to lead-210 body burden, conversion factors in model for estimating, 25:8680
decay products of, effects on radioisotope content of bones of uranium miners, 23:26665
decay products of, interactions with aerosols, 23:33268
decay products of, membrane filter free-air measurements of emanation, 24:32002
decay products of, methods for measuring equilibrium concentrations in uranium mines of, 25:37796(R) (CEA-N-1364)
decay products of, monitoring of air in uranium mines, α, 23:31755
decay scheme for, 25:19016
decay scheme of, in relation to gamma radioactivity of air in uranium mines, 23:43755 (COO-1500-16)
detection and measurement in exhaled air for determination of radium-226 in body, Peltier equipment for, 23:35557
detection of internal contamination by, lead-210 or polonium-210 determination in human urine for, 21:18005
detection of, low-background alpha scintillation detector methods for, 24:19201 (MIT-952-6, pp 164-84)
determination in air by measuring α and β particles from daughters, 23:40574
determination in atmosphere by gamma spectroscopy, 23:34999
determination in atmosphere of short-lived daughter products of, method for, 23:4830
determination in atmospheric gases, sampling and separation methods for radiometric, 25:20928 (CONF-700816-(Vol.2), pp 683-96)
determination in calibration flaring samples from Rulison Project, 25:23523 (UCRL-50986)
determination in foods or man, radiometric method for, 25:37310
determination in mineral and medicinal waters in Europe, electrometric, 23:37904
determination in pitchblende by method involving solvent extraction of bismuth activities using Dalzin, 23:15808
determination in pitchblende using solvent extraction and ion exchange, 22:37676
determination in uranium air samples, radiometric, 25:29536
determination in water by gamma spectrometry, 23:49733 (SFL-A-14)
determination in water, method for, 22:2415
determination in water, methods for, 22:2210
determination of airborne decay products of, air sampling system for, 25:23793(P)
determination of airborne decay products of, ionization detector for, 25:23791
determination of airborne decay products of, proportional detector for, 25:23792
determination of daughters of, method for alpha spectrometric, 25:18768
diffusion constant in paraffin, lard, and styropor, 21:21931
diffusion from ground, method for estimation of, 24:41446
diffusion from soil to atmosphere, effects of ice and water on, 22:40262
diffusion in bacon, 23:6268
diffusion in paraffin, 23:6268
diffusion in styropor, 23:6268
diffusion in troposphere, 24:22788 (NP-18186)
diffusion in Washington, D.C. atmosphere, vertical, 24:14084
diffusion of daughters of, in uranium mine air, model for steady state solution of equations for, 23:24306
distribution in animals and man following inhalation, 23:29322
distribution in atmosphere, effects of wind velocity on vertical, (E/T), 25:29225
distribution in atmosphere, methods for measuring, 22:2235
distribution in atmosphere, relations with mass exchange in lower troposphere and vertical, (E/T), 24:25131
distribution in deep Atlantic, Caribbean, and Pacific waters, determination of water mixing rates from, 22:42894 (CU-2663-9, App.D)
distribution in ground water near Great Salt Lake, 22:2209
distribution in ground-level air, relations with lead-210, 22:2237
distribution in near-bottom water, use for estimation of vertical mixing of seawater, 23:4754
distribution in north Atlantic Ocean, vertical, 25:39617
distribution in soil, effects of atmospheric variables on, 22:2231
distribution in troposphere and lower stratosphere, (E), 24:36417
distribution on Moon surface, uniform and pile-up, (E/T), 25:58680
effectiveness for contact therapy of human retinoblastomas, 25:26880
effectiveness for implant therapy of human lung neoplasms, 25:46931
effects of implants of, on pituitary gland, 22:51298(R) (COO-1484-3)
effects of inhaled, on respiratory tract of rats, additive effects of cerium dusts on carcinogenic, 25:21837(T) (LF-tr-47)
effects on human respiratory tract following inhalation, 25:44949
effects on man following use for implant therapy or contact with contaminated gold jewelry, proposed standards regarding α, β, and γ, 23:35920
effects on miners in Czechoslovakia, history of, 24:44612
effects on organs and tissues in rats following inhalation, 25:42248
effects on osteodystrophy in man following inhalation, 25:19144
effects on ratio of radium-226 to lead-210 in bones of dial painters, 23:12031
effects on uranium mining personnel following inhalation, pathological, 23:50571 (PHS-999-RH-33, pp 108-11)
emanation from lunar materials, (E), 25:35831
energy level at 185.7 keV, α—γ gyromagnetic ratio for, (E), 24:28782 (UUIP-660)
energy level at 185.7 keV, gyromagnetic ratio of, (E), 24:49903
energy-level transitions in, internal conversion coefficients for $2^+ \rightarrow 0^+$, (E), 23:21331 (MIT-952-5(Pt.1), pp 200-314)
excretion by man following ingestion in water, 25:42247 (SFL-A-16)
exposure estimates for short-lived decay products of, by polonium-210 determination in hair, 25:46831
gamma dosimetry for interstitial implant sources of, 22:31087
half-life and type of decay of, 22:42698
hazards to personnel of Czechoslovakian mines, history of, 24:44612
ingestion by man, 23:12030
inhalation by personnel in uranium mines, methods for alpha dosimetry in respiratory tract tissues following, 25:42394(R) (NYU-4256-1)
inhalation by uranium mining personnel, 24:48547
inhalation by uranium mining personnel, 24:27581 (CONF-690540-, pp 329-55)
inhalation by uranium mining personnel, relation of, to lead-210 content of bones, 24:17015
maximum permissible concentration of, in air of uranium mines, criteria and values proposed by IAEA, EURATOM, ICRP, France, and United States for, 23:38610(T) (LIB/Trans-202)
monitoring in air using cellulose nitrate track detectors, 25:44646
monitoring in air, polonium-218 alpha detector system for, 24:27335 (CONF-690540-, pp 174-83)
monitoring in air, two-filter method for, 24:17043
monitoring in atmosphere near uranium mill trailing piles, 24:31961 (NP-18056)
monitoring in radiotherapy areas of hospitals, methods for, 23:18035
monitoring in South Africa gold mines, 25:52064 (A/CONF.49/P-659)
monitoring in uranium mine atmosphere by α spectrometry or total counting, 25:21698
monitoring in uranium mines, alpha spectrometer for, 25:26503
monitoring of airborne, air sampler for, 25:29352(P)
monitoring of decay products of, attached to aerosols, dielectric track detector for mining personnel, 25:44698
monitoring of, integrating detector for area or personnel, 23:21937 (NYO-3086-8, pp VI.1-26)
monitoring of, photographic method for, 23:26554
monitoring of, silver-activated zinc sulfide detector system for, 23:33416
production in plutonium-238 dioxide SNAP fuels, safety hazards from, 23:9653 (SC-RR-68-832)
production of mutations in Drosophila by, 21:12820
radiation dose to miners, use of model to relate lead-210 body burden to, 23:26788
radiation effects on diffusion of, in skin of rat tails, uv and x, 25:32535
range and stopping power in aluminum, copper, lead, silver, uranium, and water, (T), 22:45926 (UCRL-18127)
range in nongaseous materials at 0.01 to 500 MeV/amu, computer program for, 23:44678
release by Galician soils, effects of clay content and soil profile on, 22:6826
release by Galician soils, effects of, on lead content of native plants and soils, 22:6826
release from soils and plants in Illinois, 21:6078
release from uranium deposits, method for measurement of, 22:33567
retention in Mylar and Saran bags for use in air sampling, 25:40 (IDO-12073, pp 28-36)
sorption and desorption by activated charcoal at 0°C in ice—water bath, 25:40 (IDO-12073, pp 28-36)
turbulent diffusion coefficients of, in atmosphere, diurnal variations of, 21:16018
uptake from atmosphere or bath water by guinea pigs and man, 21:41427
use as tracer to study atmospheric transport, 24:39083
use for labeling aerosols for determining retentivity of air filters, 23:50454 (NRL-6802)
use for therapy of aseptic inflammations of bones, joints, and tendons, granulomatous lesions, and neoplasms in horses, evaluation of, 24:25538
use for therapy of inflammations and neoplasms of bones, joints, and tendons of horses, 24:34559
use for therapy of nasopharyngeal cancer in man, 22:49430
use in geochemical prospecting for uranium in surface waters, 23:35325
use of seeds of, for therapy, assay of, 23:5003

  use of, in treating uterine carcinomas, improved technique for, 21:6579
RADON ISOTOPES Rn-225
  beta decay of, half-life for, (E), 23:21307
RADON ISOTOPES Rn-226
  beta decay of, half-life for, (E), 23:21307
  content in atmosphere, near Moscow, effects of lead-210 residence time in troposphere on, 24:22796
  content of uranium mining personnel, 23:29495 (BARC-389)
Radon Isotopes (Tn)
    see Radon Isotopes Rn-220
RAFFINATES
  analysis of solutions of, containing thorium for uranium by colorimetry using 1-(2-pyridylazo)-2-naphthol, 24:7399 (NIM-470)
  corrosive effects of acidic aluminum and zirconium, on stainless steel tanks, 21:45868
  corrosive effects of aluminum and zirconium alloy fuel processing, on types 304L and 347 stainless steel at 35°C, 21:45862 (IN-1114)
  stability of aluminum and zirconium alloy fuel processing, effects of temperature on, 21:45862 (IN-1114)
RAFFINOSE
  filtration by dynamically formed hydrous zirconium oxide membranes, desalination studies on, 21:45087 (ORNL-4164, pp 57-82)
  radiation effects on solutions of, formation of malonaldehyde by γ, 24:218
  radiolysis of solid, effects of dose on yields in γ, 23:2315
  radiolysis of solid, reactions on dissolution in water of free radicals produced by, 24:44037
Rainier Burst
    see Plumbob Operation
RAINWATER
  6 strontium-90 content in Australian, 1965, 21:24117
  aerosol scavenging by drops of, numerical model for studying, 25:26388 (CONF-700601-, pp 433-46)
  aerosol scavenging by, effects of wind on, 25:48635 (BNWL-1551(Vol.2)(Pt.1), pp 84-91)
  alpha activity in Bilthoven, Holland, 21:28442 (RA-23)
  amphibian larvae development in radioactive, at Bikini and Nevada Test Site, 22:15049
  analysis for beta particles, evaporation method for, 23:37885
  analysis for cesium-137 by isotopic exchange and counting, 23:19661 (STI/DOC-10/95)
  analysis for chlorine, sodium, and sulfur isotopes, gamma spectrometric, 21:36152
  analysis for cosmic ray-produced beryllium-7, phosphorus-32 and -33 and sulfur-35, 21:6082
  analysis for cosmic ray-produced isotopes, 21:6058
  analysis for cosmic-ray-induced chlorine-34m, chlorine-38, and chlorine-39, method for multidimensional γ spectrometric, 23:49728 (BNWL-1051(Pt.2), pp 76-9)
  analysis for cosmic-ray-produced chlorine-38, chlorine-39, sodium-24, and sulfur-38 by ion exchange and multidimensional γ spectrometry, 23:49729 (BNWL-1051(Pt.2), pp 79-82)
  analysis for indium by neutron activation, 23:26371
  analysis for indium by neutron activation, 23:26370
  analysis for lead-210 by method involving solvent extraction of bismuth activities using Dalzin, 23:15808
  analysis for mercury by activation methods, 23:37976(R) (AE-360)
  analysis for sodium-22 by beta counting, 23:2250
  analysis for strontium-90, 21:32081 (AAEC/TM-377)
  analysis for strontium-90 after separation by EDTA on cationic resin by counting yttrium-90, 23:81
  analysis for strontium-90 by isotopic exchange, 21:39019
  analysis for tritium, catalytic exchange and scintillation counting method for, 23:15813
  analysis for uranium-237 following 5th and 7th Chinese tests, 23:9331
  analysis of sulfate-containing, for oxygen and sulfur isotopes, 23:37880
  analysis of, for vanadium, activation, 21:15878(R) (MIT-905-81)
  barium-140 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
  barium-140/strontium-90 ratio in Fayetteville, Arkansas, Sept. 1967 to Jan. 1969, 24:20902
  beryllium-7 activity in, use in soil layer age estimation, 22:6458
  beryllium-7 content in Toulouse, France, variations in, 22:183
  beryllium-7 content in, during BOMEX, cosmogenic, 25:48646 (BNWL-1551(Vol.2)(Pt.1), pp 130-4)
  beryllium-7 content in, in Fukuoka, Japan from April 1963 to January 1964, 21:8461
  beryllium-7 content of Fayetteville, Arkansas, Jan. 1969 to Mar. 1970, 25:10712 (ORO-2529-28, App. 6)
  beryllium-7 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
  beta activity in Bilthoven, Holland, 21:28442 (RA-23)
  beta activity in German, 1967 to 1969, 25:278
  beta activity in Japanese, 1966, 21:36147 (NP-16800)
  beta activity in Los Alamos, N. Mex., 1966, 21:43058 (LA-3663)
  beta activity in New Zealand, October to December 1967, 22:42869(R) (NP-17523)
  beta activity in samples of, in New Zealand during July to September, 1966, 21:26414(R) (NP-16660)
  beta activity in, in Zealand, 21:14327(R) (NP-16416)
  beta activity in, measurement of, 21:12532
  beta particle and chemical content in, from convective storms, 21:43054 (COO-1199-13)
  bismuth-214 content in, 24:16452
  bromine washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
  bromine washout coefficient for, measurement of, 22:18954 (BNWL-481-1, pp 43-52)
  carbon-14 content of Japanese and Korean, measurement of, 23:13880
  cerium-141 content in Fayetteville, Arkansas, 21:17742
  cerium-144 content in Fayetteville, Arkansas, 21:17742
  cerium-144 content in Illinois, during convective storms, 1963, 22:30727
  cerium-144 content in Sydney, Australia, 1964 to 1966, 21:17741
  cerium-144 content in, in Holland, 21:28442 (RA-23)
  cerium-144 content of Fayetteville, Arkansas, from May 1966 to Jan. 1969, 25:57578
  cesium washout coefficient for, measurement of, 22:18954 (BNWL-481-1, pp 43-52)
  cesium washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
  cesium-137 analysis and sampling of, from atomic weapons tests, 21:192
  cesium-137 and strontium-90 content of, in Israel, 1962 to 1965, 21:6033 (IA-1082, pp 235-53)
  cesium-137 content in Australian, 1966 measurements of, 22:23169
  cesium-137 content in New Zealand, during July to September, 1966, 21:26414(R) (NP-16660)
  cesium-137 content in Swedish, 1965 through 1966, 22:10374 (FOA-4-4495-28)
  cesium-137 content in Sydney, Australia, 1964 to 1966, 21:17741
  cesium-137 content in, at Argonne National Lab between 1965 and June 1966, 21:1740(R) (HASL-173 and App.)
  cesium-137 content in, in Holland, 21:28442 (RA-23)
  cesium-137 content of Australian, 1967, 23:7646
  cesium-137 content of Danish, 1966, 22:10358 (RISO-155)
  cesium-137 content of Japanese, April 1968 to April 1969, 24:22787 (NIRS-RSD-23)
  cesium-137 content of, in Australia during 1968 in comparison with previous years, 24:34192
  cesium-137 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
  cesium-137 content of, in Greenland, 1966, 22:10359 (RISO-156)
  cesium-137 content of, in Netherlands during 1964, 22:4616
  cesium-137 uptake from, by forage plants, 21:26409(R) (COO-1171-62)
  charge-measuring system for, improvements in, 21:45452 (BNWL-481-4, pp 46-8)
  chloride and deuterium content in, effect of drop size and rainfall intensity on, 21:22045
  cobalt-60/zirconium-95 ratio in, effects of fractionation on, 23:26368
  contamination by fallout, 21:24548 (RA-16)
  contamination with radioisotopes, endocrine effects in pregnant mice after drinking, 21:435
  content of artificial and natural radioisotopes in, over Black Sea, 21:8454(T) (AEC-tr-6641, pp 36-42)
  cosmic ray-produced radioisotopes in, detection by γ spectroscopy of, 22:18961 (BNWL-481-1, pp 85-7)
  decontamination of, containing strontium-90—yttrium-90 and iodine-131 by ion exchange using peats, 25:48570 (NP-18919)
  decontamination of, evaluation of distillation, ion-exchange, and precipitation methods for, 21:39394 (BMwF-FBK-67-57)
  deuterium content in Tokyo, 22:8227
  deuterium content in, effects on isotopic composition of ground waters, 22:18927
  deuterium content of Canadian, two-year study on, 25:23703 (AECL-3800)
  deuterium/hydrogen abundance ratios in, 25:34518
  distribution from summer thundershowers on Arid Lands Ecology Reserve, 25:48655 (BNWL-1551(Vol.2)(Pt.1), pp 168-9)
  drop formation of, using fallout particles as condensation nuclei, 21:14336
  drop size spectra, mathematical models for evolving, 25:26385 (CONF-700601-, pp 385-402)
  effect on content of cesium-137 and strontium-90 in Black Sea, 21:8531
  effect on γ background dose rates in Warsaw, 21:39061
  effects of droplets of, on scavenging of radon decay products from atmosphere, mathematical model for describing, 25:29217
  effects of drops of, on in-cloud scavenging of cosmogenic radioisotopes, 25:37498 (BNWL-1551(Pt.2), pp 27-30)
  effects of injecting contaminated, on thyroid of pregnant mouse, 21:1827
  effects of radioactive, on liver and spleen of pregnant mice, 21:6697
  effects of, on increase of gamma background radiation in summer in Warsaw, 21:10857 (CLOR-50/D)
  effects on below-cloud scavenging of aerosol particles in atmosphere, Brownian and phoretic diffusion processes in, 24:39062 (BNWL-1307(Pt.1), pp 70-6)
  effects on cesium-137 content in forest floor in Washington State, 25:46772
  effects on cesium-137 content of forest leaf litter, 21:26406 (BNWL-SA-1212)
  effects on condensation nuclei and ice nuclei content in clouds, (E), 25:26362 (CONF-700601-, pp 37-48)
  effects on deposition of fallout from atmosphere, 23:11658
  effects on fallout content of farm soil in India, monsoonal, 24:7787
  effects on fallout deposition, 23:29013
  effects on fallout distribution in soils, 21:45240
  effects on in-cloud scavenging of airborne contaminants, tracer method for study of, 24:48178 (BNWL-1307(Pt.2), pp 14-16)
  effects on iodine-131 washout from midwest US atmosphere, 22:25541
  effects on leafhopper populations in Australia and Fiji, 21:20463
  effects on movement and supply of ground water in Venezuela, use of carbon-13 method to study, 22:18931
  effects on particle scavenging in atmosphere, rhodamine dye and sulfur dioxide tracer studies on, 24:39063 (BNWL-1307(Pt.1), pp 77-81)
  effects on radioisotope uptake by plants, role of mineral leaching in, 24:7788
  effects on strontium-90 content of atmosphere and fallout, 25:29218
  effects on strontium-90 washout of stratosphere, 22:33571
  effects on washout of radioactive particles from atmosphere, 22:37886
  efficiency for scavenging stack-released sulfur dioxide from coal-fired power plant plumes, (E), 25:26378 (CONF-700601-, pp 293-303)
  efficiency of drops of, for scavenging atmospheric gases, effects of gas solubility on, 25:26374 (CONF-700601-, pp 247-59)
  efficiency of drops of, for scavenging carbon dioxide, nitrogen dioxide, and sulfur dioxide trace gases from atmosphere, (E), 25:26375 (CONF-700601-, pp 261-9)
  efficiency of drops of, for scavenging of atmospheric dusts, (E/T), 25:26371 (CONF-700601-, pp 169-86)
  efficiency of drops of, for scavenging submicron biological aerosols, equipment and method for measuring, 25:26369 (CONF-700601-, pp 151-60)
  efficiency of raindrops for scavenging of Bacillus subtilis in atmosphere, 24:9525(R) (COO-1199-18)
  electric charge and size distribution on droplets of Olympic Peninsula, 24:39065 (BNWL-1307(Pt.1), pp 86-91)
  electric charge and size of drops of, effects on atmospheric scavenging efficiency for fallout, (E), 25:8365(R) (COO-1199-19)
  electric charge measurement for drops of, 23:9566 (BNWL-715-3, pp 140-9)
  electric charge measuring system for drops of, 22:18957 (BNWL-481-1, pp 74-6)
  electric charge measuring system for drops of, design of improved, 23:9567 (BNWL-715-3, pp 150-3)
  electric charge on drops of, effects of continuous or showery rainfall on, 25:48636 (BNWL-1551(Vol.2)(Pt.1), pp 91-7)
  electric charge on drops of, raindrop charge spectrometer measurements of, 24:14073 (BNWL-1051(Pt.1), pp 18-25)
  electric charge, quantity, and drop size of, in Caribbean Sea, shipboard equipment and methods for measurement of, 24:14074 (BNWL-1051(Pt.1), pp 26-9)
  fallout content in Australian, 1966, 22:8226
  fallout content in Debrecen, Hungary, 1963 to 1966, 21:32279
  fallout content in ground level, 21:32277
  fallout content in Hokkaido, Japan, following Sept. 1969 Chinese nuclear explosion, (E), 25:54789
  fallout content in, in Japan, effects of nuclear explosions in China on, 21:39431
  fallout content in, in London, 23:2238
  fallout content in, USA, 1960 to 1964, 21:1456(R) (HNS-457-73-F)
  fallout content of Belgian, during 1969, 25:37562 (NP-18809, pp 4.1-6)
  fallout content of Danish, 1966, 21:41021 (NP-17016)
  fallout content of Indian, effects of meteorologic conditions on, 23:17583
  fallout content of Mol, Belgium, 1966, 23:7639(R) (NP-17698)
  fallout content of Niigata City, Japan, from Chinese nuclear explosions, 1965 to 1966, 22:40270
  fallout content of Niigata City, Japan, from Chinese nuclear explosions, 1963 to 1964, 22:40271
  fallout content of Rangoon, Burma, measurement during 1966 monsoon of, 24:5765
  fallout content of surface, effects of vertical mixing of tropospheric air on, 22:47238 (COO-1199-15)
  fallout content of UK, Jan. 1967 to July 1968, 23:19862 (AERE-R-5899)
  fallout content of, at Sydney, Australia, 1966, 22:8225
  fallout content of, in Colorado during 1961 to 1967, 22:21459(R) (COO-1156-28)
  fallout content of, in Denmark, 1966, 22:10357 (RISO-154)
  fallout content of, in Finland, 25:18931 (NYO-3446-14, Paper 30)
  fallout content of, in Korea between 1961 and 1966, 21:36562 (BNL-11613)
  fallout content of, London, 21:43012
  fallout content of, review of methods for determining, 21:14154
  fallout in United Kingdom, 21:20161 (ARCRL-16, pp 3-20)
  fallout in, gamma-spectrometric identification of nuclides in, 22:23314
  fallout monitoring in, 21:39060
  fallout monitoring in Canadian, April 1967, 21:39051 (NP-16878)
  fallout monitoring in Canadian, May 1967, 21:39053 (NP-16971)
  fallout monitoring in Finland, 21:8459
  fallout monitoring in Japanese, from Chinese nuclear tests, 21:39058
  fallout monitoring in, in Japan, July through Sept. 1965, 21:3189
  fallout monitoring of New Zealand, Oct. to Dec. 1970, 25:44452(R) (NRL-F-42)
  fallout monitoring of UK, Jan. to July 1970, 25:8364 (AERE-R-6556)
  fallout monitoring of, in New Zealand, 24:2656 (NRL-F-34)
  fallout monitoring of, in New Zealand during second quarter of 1969, 24:29724 (NP-18140)
  fallout scavenging by, numerical exploration of, 25:48633 (BNWL-1551(Vol.2)(Pt.1), pp 75-81)
  fallout scavenging from atmosphere by, chemical tracer studies of, 25:8365(R) (COO-1199-19)
  fallout scavenging from atmosphere by, indium tracer studies on, 24:14080(R) (COO-1407-33)
  fallout washout coefficient for, in lower troposphere, 22:23171

fission product content in, at Argonne National Lab., Ill., after third Chinese nuclear test of May 9, 1966, 21:1740(R) (HASL-173 and App.)
fission product content in, at selected sites in the USA, 1966 to 1967, 21:22039(R) (HASL-181(App.))
fission product content in, from May 1966 Chinese nuclear explosion, 22:10380
fission product content in, from October 1966 Chinese nuclear explosion, 23:2422(T) (NSJ-tr-132)
fission product content in, from October 1966 Chinese nuclear explosion, 22:10382
fission product content of Debrecen, Hungary, 1966 to 1967, 23:19868
fission product content of Japanese, following Chinese and USSR nuclear explosions, 23:47646(T) (UCRL-Trans-10355)
fission product content of UK, Nov. 1969 to Nov. 1970, 25:8364 (AERE-R-6556)
fission product distributions in, effects of raindrop size on, (E/T), 24:41445
fission-product distribution in, rare-earth, 23:13278
formaldehyde content of, tritiated, 24:9491 (TID-25286)
formation of, tracer method for studying in-cloud processes for, 24:39068 (BNWL-1307(Pt.1), pp 105-6)
growth of droplets of, analysis of stochastic, (T), 25:48628 (BNWL-1551(Vol.2)(Pt.1), pp 35-41)
ice particle content in drops of, effects of rainfall rate on, 25:26363 (CONF-700601-, pp 49-68)
indium content of Illinois, 1970 measurements of, 25:34742(R) (COO-1407-38)
iodine content in Japanese, 1966, 21:36147 (NP-16800)
iodine washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
iodine washout coefficient for, measurement of, 22:18954 (BNWL-481-1, pp 43-52)
iodine-131 content in, from third Chinese nuclear test, 21:16012 (NP-16552)
iodine-131 content in, measurement of, during 1961 to 1962, 21:24418 (RA-17)
iodine-131 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
isotope content of, near Mediterranean Sea, origin of, 24:31498
isotopic composition of Alpine, prediction of glacier flow patterns from altitude effects on, 23:45404
leaching of uranium ores, uranium losses in, 21:36081 (LFEN-NI.-33)
lead-210 activity in Indian, seasonal variations in, 24:50465 (CONF-690916-(Vol.2), pp 90-4)
lead-210 and stable lead content relationships in atmospheric, 22:184
lead-210 contamination of, in New Zealand and South Pacific during 1967 through 1968, fallout, 23:35705(R) (HASL-210)
lead-210 content in New Zealand, 1966, 21:36148(R) (NP-16801)
lead-210 content in New Zealand, 1967, 22:42870(R) (NP-17524)
lead-210 content in Toulouse, France, variations in, 22:183
lead-210 content of, 24:33798
lead-210 content of, 23:769 (ANL-7360, pp 68-149)
lead-210 content of Australian, 1964 to 1967, 23:38105 (CXRL-10)
lead-210 content of Indian, 23:24311
lead-210 content of, in relation to human contamination, 23:33698
lead-210 uptake from, by tobacco plants, 22:45422
lead-214 content in, 24:16452
magnesium-28 content in, Fayetteville, Arkansas, 21:6084
magnesium-28 production in, by cosmic radiation, 21:10463(R) (ORO-2529-6)
manganese-54 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
monitoring for radioactivity, in Spain, 22:2224
monitoring of long- and short-lived fission products in, of United Kingdom, 21:12527 (AERE-R-5260)
monitoring of radioactivity in, in the area of Ames Research Reactor, 21:18037 (IS-1523)
movement in Kenya soils, use of neutron moisture meter for measurement of, 22:23151
movement in soils, iodine-131 tracer method for measurement of, 22:23155
niobium-95/zirconium-95 ratio in Japanese, use in age estimation, 23:33271
oxygen-18 content in French, measurements of, 22:18934
oxygen-18 content in, effects on isotopic composition of ground waters, 22:18927
particle content of, effects of rainfall intensity on, (E), 25:29224
particle deposition from atmosphere by, comparison of measured and theoretical data on, 23:9569 (BNWL-715-3, pp 165-70)
particle deposition from atmosphere by, convective diffusion equation for describing submicron, 23:9570 (BNWL-715-3, pp 171-83)
particle deposition from atmosphere by, effects of particle size on, (T), 23:9568 (BNWL-715-3, pp 154-64)
particle distributions and trajectories in collisions with, high-speed photographic studies of, 22:40248 (AECL-2787, pp 514-26)
particle scavenging from atmosphere by, research program on, 25:34742(R) (COO-1407-38)
particle scavenging from atmosphere by, uranin and rhodamine dye tracer studies of, 25:26368 (CONF-700601-, pp 137-47)
plutonium-238 content of Japanese, 23:13876
plutonium-238 content of Japanese, effects of nuclear explosions and SNAP-9A burnup on, 23:33273
polonium-210 content in Toulouse, France, variations in, 22:183
polonium-210 content of, 24:33798
polonium-210 uptake from, by tobacco plants, 22:6830
radiation monitoring in Japan 1966, 22:10381
radiation monitoring in New Zealand during 1970, gross β, 25:24132 (NRL-F-41)
radiation monitoring in, of Italy during 1969, gross fallout β, 23:35705(R) (HASL-210)
radiation monitoring in, of New Zealand and South Pacific during November 1968, total β, 23:35705(R) (HASL-210)
radiation monitoring in, of New Zealand during 1968, β, 23:35705(R) (HASL-210)
radiation monitoring of Ames Laboratory area, 22:48944 (IS-1924)
radiation monitoring of Ispra environs, 23:13870 (EUR-4088)
radiation monitoring of worldwide, methods for, 24:46353 (AERE-R-5898)
radiation monitoring of, in Hungary during 1960 through 1965, 21:28501
radiation monitoring of, in New Zealand during 1968 and 1969, strontium-89, strontium-90, 24:41862(R) (NP-18315)
radiation monitoring of, in New Zealand following nuclear testing in Pacific during 1968, β, 23:18029 (NP-17776)
radiation monitoring of, of Mexico during January through June 1967, gross β, 23:43780
radioactive contamination by fallout, 21:25982
radioactive contamination of, in Italy in relation to contamination of hay, 23:26779
radioactive material content in The Netherlands, 1965, 21:25997 (RA-24)
radioactivity content in Hungarian, from 1962 to 1964, 22:48946
radioactivity content in Japanese, measurements of, 22:33569
radioactivity content in, effect of convective storms on, 21:25993 (ORO-3083-4, Pt.2)
radioactivity content in, effect of divergence and vorticity of surface winds of, 21:25996 (ORO-3083-4, Pt.5)
radioactivity content in, from convective storms, 21:25992 (ORO-3083-4, Pt.1)
radioactivity in Bogota, Columbia during 1961 and 1962, 21:28435 (IAN-RS-ERA-1)
radioactivity in drops of, effects of drop size and evaporation on, (E), 24:48185
radioactivity in Hawaiian, effect of trade wind inversion on, 21:41026
radioactivity in Illinois, 24:9525(R) (COO-1199-18)
radioactivity in Illinois, relation to atmospheric content, (E), 22:8220(R) (COO-1199-14)
radioactivity in Illinois, tracer studies of, 23:7637(R) (COO-1199-17)
radioactivity in Indian, monitoring methods and results for, 22:6488
radioactivity in Italian, 21:39056(R) (PROT.-SAN.-10/66)
radioactivity in Italian, 21:39055(R) (PROT.-SAN.-02/66)
radioactivity in Japanese, after Oct. 1964 and May 1965 Chinese nuclear explosions, 22:14589
radioactivity in Japanese, April to June 1966, 22:2249
radioactivity in Japanese, April to June 1966, 22:2248
radioactivity in Japanese, data on, April to June 1966, 21:30549
radioactivity in Japanese, during 1966, 22:27918
radioactivity in Japanese, from first Chinese nuclear explosion, 22:2246
radioactivity in New Zealand, Jan. to July, 1968, 24:9709(R) (INS-343)
radioactivity in Niigata City, Japan, 1960 to 1962, 22:30724
radioactivity in Niigata, Japan, 1960 to 1962, 23:47643(T) (NSJ-tr-148)
radioactivity in Niigata, Japan, 1965 and 1966, 23:47644(T) (NSJ-tr-149)
radioactivity in Swedish, effect of Dec. 1966 USSR underground nuclear explosion on, 22:12441 (FOA-4-4494-28)
radioactivity in, comparison of, with radioactivity in air for determination of fallout scavenging efficiency, 21:20183 (SU-326-P-16-2)
radioactivity in, design of apparatus for measuring, 21:43112(P)
radioactivity in, effect on beta activity in ground water, 21:190
radioactivity in, effects of cesium-137 and strontium-90 on, 1966, 21:10861(R) (HASL-174)
radioactivity in, from fallout in Japan, January to March 1966, 21:12535
radioactivity in, in Japan, 1965, 21:14335
radioactivity in, meteorological aspects of, 22:48950
radioactivity in, system for measuring, 23:19962(P)
radioactivity in, use in surface water runoff studies, 21:45242
radioactivity in, variations of, 21:10471
radioactivity measurements in Japanese, April to June 1967, 22:48948
radioactivity measurements in New Zealand, 1966, 21:36148(R) (NP-16801)
radioactivity measurements in UK, 1967, 22:12439 (AERE-R-5575)
radioactivity measurements of Japanese, July to Oct. 1967, 23:13874
radioactivity measurements of Tokushima, Japan, May to Sept. 1968, 24:7530
radioactivity monitoring in Paris ground-level, 25:48662 (LCA/MS-RAE-3/641)
radioactivity monitoring in, in Euratom countries, 1965, 21:19767 (EUR-3165.d,f,i,n)
radioactivity of central and western Colorado, during Project Rulison reentry drilling, 25:34728 (USGS-474-101)
radioactivity of central US, measurements of, 1962 to 1966, 22:18976
radioactivity of French, effects of fallout on, 1961 to 1965, 22:25538
radioactivity of individual drops of, measurement of, 23:24317
radioactivity of Japanese, April 1967 to March 1968, 23:21824 (NIRS-19)
radioactivity of Japanese, measurements of, 23:29025
radioactivity of Japanese, Sept. 29 to Oct. 9, 1969, 24:29392 (NIRS-RSD-25)
radioactivity of, autoradiographic method for measuring, 21:22047
radioactivity of, effect of droplet size on, 21:4628
radioactivity of, from Chinese nuclear explosion, effects of global circulation on, 21:10463(R) (ORO-2529-6)
radioactivity of, from fallout in California and the United Kingdom, 1962, 21:1462
radioactivity of, in Fayetteville, Arkansas, 1965 to 1966, 21:10463(R) (ORO-2529-6)
radioactivity of, measurements of ORNL network samples during 1966, 21:45249 (ORNL-4146, pp 2-35)
radioactivity of, near Ames Research Reactor, 21:39050(R) (IS-1647)
radioisotope abundance in, 23:17608
radioisotope contamination of, in Italy during 1969, fallout cesium-137 and strontium-90, 23:35705(R) (HASL-210)
radioisotope content in New Zealand, 1966 and 1967, 21:43057(R) (HASL-183)
radioisotope content of Fayetteville, Arkansas, effects of Dec. 1968 Chinese nuclear explosion on cerium-141, cerium-144, and strontium-90, (E), 25:10709 (ORO-2529-28, App. 3)
radioisotope content of Fayetteville, Arkansas, following 8th Chinese nuclear explosion, effects of rainfall rate and storm type on, 25:15791
radioisotope content of Fayetteville, Arkansas, July and Aug. 1969, cerium-144, cesium-137, strontium-89, and strontium-90, 25:10707 (ORO-2529-28, App. 1)
radioisotope content of Fayetteville, Arkansas, May 1965 to April 1970, effects of Chinese nuclear explosions on cesium-137 and strontium-90, 25:10713 (ORO-2529-28, App. 7)
radioisotope content of global, 1954 to 1969, 24:11702 (AERE-R-6212)
radioisotope content of Japanese, April 1969 to April 1970, cesium-137 and strontium-90, 25:26392 (NIRS-RSD-27)
radioisotope content of Japanese, following Chinese and French nuclear explosions, 24:9529
radioisotope content of potable, in Japan, cesium-137 and strontium-90, 24:23181 (NIRS-RSD-21)
radioisotope content of, during 1965, 22:28447 (ANL-7278, pp 304-13)
radioisotope content of, during BOMEX, 24:39060 (BNWL-1307(Pt.1), pp 60)
radioisotope content of, from artificially contaminated clouds, (E), 24:9528(T) (UCRL-Trans-10412)
radioisotope content of, in Belgium during 1967, strontium-89, strontium-90, 23:820 (NP-17579, pp IV.1-3)
radioisotope content of, in India during 1965, 23:463
radioisotope content of, in New Zealand during 1968, strontium-89, strontium-90, 23:50547 (NP-18025)
radioisotope content of, in New Zealand during 1969, strontium-89 and strontium-90, 24:23137(R) (NRL-F-36)
radioisotope content of, in New Zealand during 1968 to 1969, barium-140, cesium-137, strontium-89, and strontium-90, 24:25481(R) (HASL-224)
radioisotope content of, in New Zealand Pacific Ocean during 1968, fallout strontium-89 and strontium-90, 23:35705(R) (HASL-210)
radioisotope content of, measurements for precipitation scavenging studies of chlorine-38, chlorine-39, and sodium-24, 25:32087
radioisotope content of, tracer studies of in-cloud scavenging processes by measurement of cosmogenic, 24:31501
radioisotope production in, by cosmic radiation, 23:11444 (BNWL-481-2, pp 1-126)
radioisotope scavenging by, effects of precipitation rate and ocean proximity on cosmogenic, (E), 25:26364 (CONF-700601-, pp 69-97)
relation to dusts, 21:27055 (TID-23760, pp 63-8)
rhodium-106 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
ruthenium-103 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
scandium washout coefficient for, measurement of, 22:18954 (BNWL-481-1, pp 43-52)
scandium washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
scavenging by drops of, kinetic theory of gas and particulate, 25:26382 (CONF-700601-, pp 355-71)
scavenging mechanisms of, use of cosmic ray-produced radioisotopes as tracers to study, (E), 21:22036 (BNWL-SA-1146)
scavenging of atmospheric particulate matter by, 21:36144 (AWRE-O-43/59)
scavenging of atmospheric pollutants by, development of tracer technique to study, 22:40249 (AECL-2787, pp 553-66)
scavenging of contaminants from atmosphere by, tracer studies of, 22:47239(R) (COO-1407-20)
scavenging processes of, use of data recording and reduction systems to study, 21:32274(R) (COO-1407-15)
separation of beryllium-7 from, by countercurrent electrolysis, 23:40823
silicon-32 content in, in Denmark, 21:3190
silver content of Nebraska and South Dakota, absorption spectrophotometric measurements of, 25:26366 (CONF-700601-, pp 109-20)
silver iodide particles in, washout coefficients for, 21:14124 (BNWL-SA-798)
silver iodide washout coefficient for, effects of precipitation rate on, 23:9565 (BNWL-715-3, pp 128-40)

  silver iodide washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
  silver iodide washout coefficient for, measurement of, 22:18954 (BNWL-481-1, pp 43-52)
  sodium-22 content of, at Casaccia Nuclear Center, Italy, measurement of cosmogenic and artificial, 1962 to 1968, 24:25146
  sodium-22 content of, in Freiburg, Germany, Jan. to Nov. 1968, 23:45416
  soil erosion by, use of tracer techniques to measure western Congo, 22:19065
  stable element content of, origin and quantity of, (E), 25:26365 (CONF-700601-, pp 99-108)
  strontium isotopic ratios in, Fayetteville, Arkansas, 1967, 22:8222(R) (ORO-2529-15)
  strontium washout coefficient for, measurement of, 22:18960 (BNWL-481-1, pp 82-5)
  strontium-89 and -90 content in Berlin, from nuclear weapons tests, 1959 to 1966, 21:41025
  strontium-89 and -90 content in New Zealand, Jan. to March 1967, 21:39052(R) (NP-16879)
  strontium-89 and -90 content in, at selected global stations, 1957 to 1967, 22:14588(R) (HASL-184(App.))
  strontium-89 and -90 content in, from Chinese nuclear explosion, 21:3191
  strontium-89 and strontium-90 content of Fayetteville, Arkansas, Sept. 1969 to Aug. 1970, (E), 25:10710 (ORO-2529-28, App. 4)
  strontium-89 content in Fayetteville, Arkansas, from Chinese nuclear explosion, 21:17740
  strontium-89 content in German, 1959 to 1967, 22:25533 (SZS-4/68)
  strontium-89 content in Japanese, 21:28100
  strontium-89 content in New Zealand, October to December 1967, 22:42869(R) (NP-17523)
  strontium-89 content in, in New Zealand, 21:14327(R) (NP-16416)
  strontium-89 content of, in Holland, 21:28442 (RA-23)
  strontium-89 content of, in New Zealand during 1966, 22:6800(R) (NP-17015)
  strontium-89/-90 ratio in Fayetteville, Arkansas, Sept. 1967 to Jan. 1969, 24:20902
  strontium-89/-90 ratio in Fayetteville, Arkansas, 1964 to 1969, effects of jet stream location and Chinese nuclear tests on, 25:10708 (ORO-2529-28, App. 2)
  strontium-90 content in Ankara, Turkey, 22:181(R) (TAEC-D-5)
  strontium-90 content in Australian, 1966 measurements of, 22:23170
  strontium-90 content in Fayetteville, Arkansas, from Chinese nuclear explosion, 21:17740
  strontium-90 content in German, 1959 to 1967, 22:25533 (SZS-4/68)
  strontium-90 content in Illinois, during convective storms, 1963, 22:30727
  strontium-90 content in New Zealand, 1967, 22:42870(R) (NP-17524)
  strontium-90 content in New Zealand, during July to September, 1966, 21:26414(R) (NP-16660)
  strontium-90 content in New Zealand, October to December 1967, 22:42869(R) (NP-17523)
  strontium-90 content in Sydney, Australia, 1964 to 1966, 21:17741
  strontium-90 content in, at Atlantic Ocean weather stations, 1965 to 1967, 22:14588(R) (HASL-184(App.))
  strontium-90 content in, at weather stations in Atlantic Ocean, 1966 to 1967, 21:22039(R) (HASL-181(App.))
  strontium-90 content in, in Denmark, 1965, 21:14329(R) (RISO-130)
  strontium-90 content in, in India, 1961 to 1964, 21:22046
  strontium-90 content in, in Japan from April 1963 to March 1964, 21:8462
  strontium-90 content in, in New Zealand, 21:14327(R) (NP-16416)
  strontium-90 content of Danish, 1966, 22:10358 (RISO-155)
  strontium-90 content of Danish, 1967, 23:9571 (RISO-180)
  strontium-90 content of Japanese, April 1968 to Feb. 1969, 24:22787 (NIRS-RSD-23)
  strontium-90 content of New Zealand, Oct. to Dec. 1970, (E), 25:44452(R) (NRL-F-42)
  strontium-90 content of, at Ankara, Turkey, 1968 to 1969, 24:44125(R) (NP-18379)
  strontium-90 content of, effects of latitude on, 24:7528
  strontium-90 content of, effects of latitude on seasonal variation in, 24:31497
  strontium-90 content of, in Australia during 1968, 24:34313
  strontium-90 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
  strontium-90 content of, in Greenland, 1966, 22:10359 (RISO-156)
  strontium-90 content of, in Holland, 21:28442 (RA-23)
  strontium-90 content of, in Japan during 1963 to 1969, 23:50471
  strontium-90 content of, in Netherlands during 1964, 22:4616
  strontium-90 content of, in New Zealand and South Pacific during 1959 through 1968, fallout, 23:35705(R) (HASL-210)
  strontium-90 content of, in New Zealand during 1968, 23:50459(R) (HASL-204)
  strontium-90 content of, in New Zealand during 1966, 22:6800(R) (NP-17015)
  structure of raindrops of, in arctic, temperate, and tropical zones, 24:16394(T) (SC-T-70-4006)
  sulfate abundance in, 23:17608
  technetium-99 content of Commerce, Texas, 1967, 25:32085
  tracer particle content of drops of, polarographic method for measurement of, 23:9555 (BNWL-715-3, pp 63-4)
  tracer studies on, use of cosmic-ray-produced radioisotopes for, 21:36152
  tritium activity in southwestern France, measurement of, 22:18936
  tritium and tritiated water scavenging by, use of reversible gas-scavenging theory for estimation of rate of, 25:48634 (BNWL-1551(Vol.2)(Pt.1), pp 82-4)
  tritium content in France, measurement of, 22:18937
  tritium content in French, measurement of, 22:18934
  tritium content in Icelandic, measurement of, 22:18933
  tritium content in Indian, 1961 to 1964, 21:22046
  tritium content in New Zealand, measurement of, 22:18935
  tritium content in Tokyo, effect of tropospheric conditions on, 21:36159
  tritium content in, Japan, 1961 to 1969, 24:9252
  tritium content in, liquid scintillation detector for determining, 23:24424 (CONF-670649-43)
  tritium content in, over North Pacific Ocean, 22:6506
  tritium content of Australian, 1967 to 1969, 25:13120 (NP-18638)
  tritium content of Australian, 1969 to 1970, 25:13103 (NP-18639)
  tritium content of Canadian and European, 1958 to 1970, 24:20901
  tritium content of Japanese and Korean, measurement of, 23:13880
  tritium content of Southern Hemisphere, effects of 1968 French thermonuclear explosions on, (E), 25:21202
  tritium content of Trondheim, Norway, 1967 to 1970, 24:25141
  tritium content of UK, Jan. 1969 to June 1970, 25:8364 (AERE-R-6556)
  tritium content of US, during 1966 to 1968, 24:44132
  tritium content of, global study on, 21:36146(R) (IAEA-3162-1)
  tritium content of, in Autralia during 1970, 25:37788 (NP-18844)
  tritium content of, in United States, 1964 and 1965, 22:37888
  tritium content of, use in tracer studies of meteorological conditions in troposphere, 24:25140
  tritium content of, use in tracer studies of meteorological conditions in troposphere, comments on, 25:37501
  tritium distribution in Idaho, 1951 to 1965, 23:40859
  tungsten isotopes content in, released from underground nuclear explosions, 24:38756
  tungsten-181 content of, 1968 to 1969, 25:15794
  use of tritiated, for ground water movement studies, 22:18939
  zinc content of Nebraska and South Dakota, absorption spectrophotometric measurements of, 25:26366 (CONF-700601-, pp 109-20)
  zirconium-95 content of, in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
Rajasthan Power Reactor (200 MWe)
    see RAPP Power Reactor
RAKE Assembly
    see Critical Assemblies
RAMAN EFFECT
  bibliography on, 1967-69, 24:26957
  detection and measurement of spectra from, improvement of signal-to-noise ratio of photomultiplier for, 23:41173
  evaluation for fast-neutron dosimetry, 25:51904 (COO-1105-168)
  experimental observation of nuclear, (E), 25:50734
  light scattering by magnons in heavy rare earth metals, theory, 24:37558
  photon polarization by atomic, (T), 25:40837 (EUR-CEA-FC-594)
  use in chemistry, review on, 22:25360
  use in description of f^1 coniguration in cerium trichloride, 23:22680
RAMJET ENGINES
    see also Pluto Reactors (Tory)
  analysis of heat transfer in Pluto nuclear-powered, 21:30621 (UCID-15130)
  design of nuclear, 21:2870(P)
RAMUS
    see Thermonuclear Reactors
Rana
    see under Amphibia
Rana Pratap Sagar Power Reactor
    see RAPP Power Reactor
RANA Reactor
    see Critical Assemblies
RANCHO SECO POWER REACTOR
  ACRS report on, 23:7368 (DOCKET-50312-7)
  buildings and structures at, designs and testing results for VSL anchorage tendons for concrete, 24:13474 (DOCKET-50312-15)
  buildings and structures for, design bases for earthquake resistant, 25:31510 (DOCKET-50312-24)
  buildings and structures for, final safety analysis of, 25:31507 (DOCKET-50312-21)
  buildings and structures for, quality control procedures for field welding of, 23:9087 (DOCKET-50312-5)
  buildings for, structural design bases for, 23:13362 (DOCKET-50312-8)
  component design for, loading criteria used in, 23:52252 (DOCKET-50312-12)
  construction of, request for not suspending permit for, 25:59971 (DOCKET-50312-26)
  containment for, post accident radiation dose levels in, 23:52252 (DOCKET-50312-12)
  containment spray systems for, iodine removal capability of, 23:52252 (DOCKET-50312-12)
  containment structure for, design parameters for diametral increase in and design criteria for, 23:13362 (DOCKET-50312-8)
  containment structure for, instrumentation for, 23:9087 (DOCKET-50312-5)
  containment structure for, safety analysis of, 24:31010 (DOCKET-50312-16)
  containment structures for, details of reinforcing steel, prestressing tendons, and post-tensioning systems for prestressed, 23:43042 (DOCKET-50312-9)
  containment system for, efficiency of thiosulfate spray for fission product methyl iodide removal from, 23:9088 (DOCKET-50312-6)
  containment system for, final safety analysis of, 25:31507 (DOCKET-50312-21)
  containment system for, performance of iodine spray removal, 25:31510 (DOCKET-50312-24)
  containment system for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  containment systems for, procedures for structural analysis of, 23:9087 (DOCKET-50312-5)
  control rod ejection accident in, energy yield and pressure pulse from, 23:52252 (DOCKET-50312-12)
  control system for, final safety analysis of, 25:31507 (DOCKET-50312-21)
  control systems and instrumentation for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  coolant loss accidents in, analysis of safety and environmental effects of, 23:9088 (DOCKET-50312-6)
  cooling system activity levels in, 23:52252 (DOCKET-50312-12)
  cooling system components for, NDTT data for structural steels for primary, 23:9088 (DOCKET-50312-6)
  cooling system for, design for prevention of vapor lock in hot leg of, 23:9088 (DOCKET-50312-6)
  cooling system for, final safety analysis of, 25:31506 (DOCKET-50312-20)
  cooling system for, natural circulation characteristics of primary, 23:52252 (DOCKET-50312-12)
  cooling system for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  core for, preliminary safety analysis of, 23:9084 (DOCKET-50312-2)
  core spray solution for, hydrogen formation from, 23:52252 (DOCKET-50312-12)
  design bases for, 23:9087 (DOCKET-50312-5)
  design parameters of, revised and additional data on, 24:47785 (DOCKET-50312-18)
  design parameters of, revised and additional data on, 24:47784 (DOCKET-50312-17)
  effluents from, effects on environment of chemical, radioactive, and thermal, 25:34292 (DOCKET-50312-25)
  electrical systems for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  emergency and auxiliary systems for, final safety analysis of, 25:31508 (DOCKET-50312-22)
  emergency and auxiliary systems for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  Emergency Core Cooling Systems for, thermal shock effects from operation of, 23:9088 (DOCKET-50312-6)
  engineered safeguards for, analysis of operation and efficiency of, 23:9088 (DOCKET-50312-6)
  engineered safeguards for, final safety analysis of, 25:31507 (DOCKET-50312-21)
  engineered safeguards for, preliminary safety analysis of, 23:9085 (DOCKET-50312-3)
  fuel elements for, description of new methods for handling spent, 23:13362 (DOCKET-50312-8)
  fuel temperatures and DNB ratios for, calculation of, 23:9088 (DOCKET-50312-6)
  instrumentation for, final safety analysis of, 25:31507 (DOCKET-50312-21)
  iodine release from, inversion condition effects on off-site thyroid doses following, 23:52252 (DOCKET-50312-12)
  licensing of, USAEC regulatory action on, 23:15570
  monitoring systems for, analysis and schematics of area and process, 23:9088 (DOCKET-50312-6)
  operations aspects of, final safety analysis of, 25:31508 (DOCKET-50312-22)
  operations aspects of, revised and additional data on, 24:47784 (DOCKET-50312-17)
  operations aspects of, revised and additional data on, 24:47785 (DOCKET-50312-18)
  owners of, financial statements of, 25:31505 (DOCKET-50312-19)
  pressure vessel for, fast neutron flux on inner surface of, 23:52252 (DOCKET-50312-12)
  quality assurance organization for, responsibilities of, 24:7001 (DOCKET-50312-13)
  quality assurance program for, 25:31509 (DOCKET-50312-23)
  quality assurance program for, organization charts for, 24:7002 (DOCKET-50312-14)
  quality assurance programs for, description of, 23:9088 (DOCKET-50312-6)
  radiation protection and radioactive waste control at, preliminary safety analysis of, 23:9086 (DOCKET-50312-4)
  radiation protection system for, final safety analysis of, 25:31508 (DOCKET-50312-22)
  radiation sources for, final safety analysis of, 25:31510 (DOCKET-50312-24)
  radioactive effluent treatment system for, operation of liquid, 25:56881
  radioactive effluents from, tritium management for normal operation, 25:31510 (DOCKET-50312-24)
  radioactive waste disposal system for, final safety analysis of, 25:31508 (DOCKET-50312-22)
  research and development programs for, description of, 23:9088 (DOCKET-50312-6)
  safety analyses for, 23:9086 (DOCKET-50312-4)
  safety analysis for, revised, 23:52252 (DOCKET-50312-12)
  safety analysis of, additional information for, 23:47131 (DOCKET-50312-10)
  safety analysis of, additional information for, 23:47132 (DOCKET-50312-11)
  safety evaluation of, USAEC Division of Reactor Licensing, 23:2054 (DOCKET-50312-1)
  site for, detailed analysis of geology, seismology, meteorology, and geophysics of, 23:9087 (DOCKET-50312-5)

site for, engineering properties of soil and foundation of, 23:52252 (DOCKET-50312-12)
site for, final safety analysis of, 25:31506 (DOCKET-50312-20)
site for, geological, hydrological, and meteorological data for, 25:34292 (DOCKET-50312-25)
site for, geological, meteorological, and seismological data for, 25:31509 (DOCKET-50312-23)
site for, meteorological, geological, and seismological characteristics of, 23:52252 (DOCKET-50312-12)
site for, preliminary safety analysis of, 23:9084 (DOCKET-50312-2)
steam and power conversion system for, preliminary safety analysis of, 23:9086 (DOCKET-50312-4)
steam and power conversion systems for, final safety analysis of, 25:31508 (DOCKET-50312-22)
technical specifications for, 25:31509 (DOCKET-50312-23)
testing of, final safety analysis of initial, 25:31508 (DOCKET-50312-22)
transients in, analysis of loss of load, 23:52252 (DOCKET-50312-12)
turbine generator failures at, safety analysis of effects of, 23:9087 (DOCKET-50312-5)
turbines for, safety analysis of missiles in, 25:31510 (DOCKET-50312-24)
waste processing at, system for radioactive liquid, 25:5882
Rand Ores
see Uranium Ores
Rankine Cycle
see Power Cycles
Ranstand Plant (Sweden)
see Uranium Ore Processing Plants
Raphanus
see under Angiospermidae
RAPP POWER REACTOR
construction of, progress to May 1970 on, 25:53881 (70-CNA-621)
control rods for, reactivity worth of transverse, 21:15645 (CONF-660221-, pp 303-6)
description and status of, 21:5595 (AECL-2486)
design and development of, 21:41292(R) (NP-16972)
loading of, safety calculations for initial, 23:25981 (BARC-354)
site for, maximum permissible concentrations of radioisotopes in Chambal river near, 22:51558 (AEET/HP/R-13)
stability of, effects of cobalt adjuster rods on xenon, 23:25981 (BARC-354)
stability of, effects of xenon oscillations on, 24:16097
Rapsodie
see Cadarache Reactors (Rapsodie)
RARE EARTH ACETATES
preparation of tetrahydrates of, 21:35925(T) (LA-tr-67-50)
separation of samarium from, by homogeneous precipitation, 21:1439
RARE EARTH ALCOHOLATES
preparation and properties of, 22:23002 (CONF-670502-, pp 392-402)
RARE EARTH ALLOYS AND SYSTEMS
see also Misch Metal
alloying behavior of binary, review of, 24:46740
analysis for scandium by atomic absorption, 22:45023
book: Emissive Properties of Materials (Handbook), 25:56346
crystal lattice distortions in compounds, (E), 25:4803
crystal structure, 22:23835
crystal structure and preparation of samarium-type binary, 21:9184 (AD-633558)
crystal structure of, 24:23488
crystal structure of binary and ternary intra-, 24:2945 (ORNL-4470, pp 52-7)
crystal structure of binary intra-, studies of samarium-type, 25:32732
crystal structure of binary, review of, 24:46740
crystal structure of Fe$_2$P Type intermetallic compounds of, data tabulation, 22:43594 (ANL-7299, pp 251-64)
crystal structure of intermetallic compounds in, 23:8210 (CONF-681020-(Vol.2), pp 499-510)
crystal structure of, effects of pressure on, 22:24379 (CONF-670502-, pp 18-28)
crystal structure, stability, and axial ratios, mathematical analysis of, 22:696
elastic properties of, effects of electronic structure on, 24:25675 (ANL-7417, pp 69-70)
electric conductivity of paramagnetic, crystal-field effects on spin-disorder contribution to, (T), 25:12009
electric conductivity of, effect of s-f exchange interaction between conduction electrons and localized spin on, 22:24394 (CONF-670502-, pp 471-81)
electric properties and electronic structure of liquid, 24:42110
electron beam production by field emission from ferromagnetic, calculations on, (T), 23:1172
electron interactions between conduction and 4f bands in, mechanism of pressure-induced, (T), 25:25029
electronic structure of, review of studies of, 22:44221
exchange interactions of, review, 25:5232
heat treatment of, 22:14482 (ORNL-4196, pp 90)
intermetallic compounds in, valence bonding in Laves phases in, (T), 23:8657 (CONF-681020-(Vol.1), pp 283-94)
internal friction of dilute zirconium binary, amplitude dependent, 21:26831
Kondo effect and magnetism in cerium- and ytterbium-containing, resonant-scattering model of, 25:47648
magnetic ordering of group V intermetallic compounds with, self-polarization contribution to, (T), 25:14460
magnetic ordering temperatures of, effects of pressure on, 22:24379 (CONF-670502-, pp 18-28)
magnetic properties and structure of, lectures on, 23:32579 (KR-132)
magnetic properties at pressures up to 85 kbar, 21:14827
magnetic properties of intermetallic compound, with aluminum, gold, and nickel, 21:26830
magnetic properties of, correlation with crystal parameters, 21:20516
magnetic structures of, review, 23:18727
nuclear magnetic resonance of, exchange constants of intermetallic compounds from Knight shifts in, (E/T), 24:24189
nuclear spin—lattice relaxation times, dynamic effects of localized magnetic moments on, (T), 25:50001
phase studies of, 22:705
phase studies on, 24:14736
phase studies on ternary, 25:10580
phase transformations in binary, 24:2916 (ORNL-4470, pp 43-4)
physical properties of, (E), 21:42278 (IS-1600, Paper 6)
positron annihilation in single crystals of, photon angular distributions from, 22:24024 (CONF-670502-, pp 487-94)
preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
preparation, properties, and handling of pure, review of, 25:35297
production of, bibliography of commercial suppliers for, 21:32840 (IS-RIC-1)
properties and uses of alloys of, with non-lanthanide heat-resisting metals, 22:43525
properties of, prediction of, 25:41778 (UCRL-20500, pp 1-85)
properties of, role of s-f exchange in electric and magnetic, 22:24394 (CONF-670502-, pp 471-81)
spin depolarization in, calculation of mean free path for, 21:11718
structure and properties of, alloy theory of, 25:32727
structure of ternary compounds, 25:32726
thermal capacity of intermetallic, review of low-temperature, 25:52944 (CONF-711001-(Vol.2), pp 668-78)
thermodynamic properties of, 24:14736
Ag—rare earth, antiferromagnetic ordering in RAg compounds, (T), 25:5197
Ag—rare earth, crystal structure and phase studies of, 22:36492
Ag—rare earth, phase studies, 23:962 (IS-1900, Paper 5)
Ag—rare earth, solid solubility studies on, eutectic temperatures for, 21:41575 (IS-1600, Paper 5)
Ag—rare earths, magnetic properties of equiatomic compounds of, crystalline field and indirect exchange theory explanation of, 25:1314 (CONF-700403-(Vol.1), pp 102-14)
Ag—rare earths, phase studies of, 21:41546
Ag—rare earths, phase studies of, 23:8208 (CONF-681020-(Vol.1), pp 207-19)
Ag-base—rare earths, formation of solid solutions in, 24:17191 (IS-2100, Sect. M)
Ag-base—rare earths, formation of solid solutions of, factors affecting, 24:36929
Ag-base—rare earths, oxidation of dilute, mechanisms of internal, 24:10005
Al—C—rare earths, formation of complex carbide phases in, 23:8320 (CONF-681020-(Vol.1), pp 309-22)
Al—La—rare earths, crystal field levels, superconducting transition temperature, and exchange parameters of, (T), 25:56359
Al—Ni—rare earths, properties of, magnetic and structural, 24:44723(R) (NYO-3454-33)
Al—Ni—rare earths, structure and magnetic properties of intermetallic compounds of, at 2 to 300°K, 25:1311 (CONF-700403-(Vol.1), pp 41-52)
Al—rare earth, Curie points of RAl$_2$, indirect exchange interaction calculation of, 24:24151
Al—rare earth, magnetic dilution of, 22:9470
Al—rare earth, magnetic properties and structures of RAl, anisotropic interactions in, 24:24149
Al—rare earth, magnetic properties of intermetallic compounds in, at 1.4 to 400°K, (E), 22:15600
Al—rare earth, magnetic susceptibility and Knight shift in, (E), 21:35218 (COO-1198-453)
Al—rare earth, phase studies, 22:34071
Al—rare earths, crystal structure of intermetallic compounds in, 22:2650
Al—rare earths, magnetic susceptibility and Knight shift in, 22:29592
Al—rare earths, phase studies and crystal structure of, 21:41612
Al—rare earths, phase studies of ternary alloys and intermetallic compounds of, 23:36125
Al—rare earths, s—f exchange coupling parameter of RA1$_2$, 25:27892
Al-base—rare earth, tensile properties of solid solution, 22:34071
Al-base—rare earths, electron emission from, effects of rare earths on secondary, 24:4784
Au—rare earth, crystal structure and phase studies of, 22:36492
Au—rare earths, crystal structure of intermetallic compounds of, 25:16398 (IS-2300, pp 101-86)
Au—rare earths, decomposition of gaseous intermetallic compounds in, thermodynamics of, 24:34903
Au—rare earths, phase studies of, 21:41546
B—Be—C—Hf—Mo—Nb-base—rare earths—Si—Ta—U—V—W, development of improved alloys of, 25:40043(P)
B—Cr—rare earths, crystal structure of RCrB$_4$, 24:46802
B—Mn—rare earths, crystal structure of RMnB$_4$, 25:8948
B—rare earths—V, crystal structure of RVB$_4$, 25:8948
Be—rare earth, properties of intermetallic compounds of, 22:10986(T) (JPRS-43479)
Bi—rare earth, crystal structure of intermetallic compounds in, 21:20529
Bi—rare earths, magnetic coupling and NMR shifts in effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
Bi—rare earths, preparation and properties of intermetallic compounds in, 23:43301
Bi—rare earths, properties and uses of single-crystal intermetallic compounds in, 23:8299 (CONF-681020-(Vol.2), pp 521-8)
C—Ga—rare earths, formation of complex carbide phases in, 23:8320 (CONF-681020-(Vol.1), pp 309-22)
C—In—rare earths, formation of complex carbide phases in, 23:8320 (CONF-681020-(Vol.1), pp 309-22)
C—Pb—rare earths, formation of complex carbide phases in, 23:8320 (CONF-681020-(Vol.1), pp 309-22)
C—Pu—rare earths—U, phase studies, 23:36265
C—rare earths—Sn, formation of complex carbide phases in, 23:8320 (CONF-681020-(Vol.1), pp 309-22)
C—rare earths—U, phase studies, 23:36265
C-base—rare earths, properties for use as Phenix reactor shielding, 24:1066 (CEA-CONF-1355)
Ca—rare earths, properties of, chemical and physical, 25:32691
Cd—rare earth, crystal structure and phase studies of, 22:36492
Cd—rare earth, magnetic properties of compounds, 24:24147
Cd—rare earth, magnetic properties of intermetallic CsCl-type, 21:39637
Cd—rare earths, Curie temperature of, effects of high pressure on, (E), 23:8654 (CONF-681020-(Vol.1), pp 137-44)
Cd—rare earths, magnetic exchange interactions in, effects of high pressures on, (E), 23:8654 (CONF-681020-(Vol.1), pp 137-44)
Cd—rare earths, thermodynamic properties of intermetallic compounds in, 23:6680
Ce—rare earth, crystal structure of, correlation between axial ratio and atomic number, 23:16494
Ce—rare earths—Ru, superconductivity and magnetism in mixed phases, 25:33197
Co—Cu—rare earths, casting and properties of permanent magnets of, 25:27184
Co—rare earth, crystal structure of intermetallics of ratio R$_2$Co$_7$, 21:41610
Co—rare earth, magnetic behavior of cobalt in intermetallic compounds of, (T), 22:15598
Co—rare earth, magnetic behavior of R$_3$Co, effects of pulsed field on, 25:33435
Co—rare earth, magnetic properties of intermetallic compounds in, thermal variations of, (E), 22:9479
Co—rare earth, magnetic properties of intermetallic, pulsed-field, 25:52936 (CONF-711001-(Vol.1), pp 229-39)
Co—rare earth, magnetic properties of intermetallic TCo$_5$, thermal variations of, (E), 22:9480
Co—rare earth, magnetic properties of intermetallics as permanent magnet materials, review, 24:24156
Co—rare earth, magnetic properties of, survey, 25:37951
Co—rare earth, phenomenological theory of magnetic properties of, 25:1326
Co—rare earth, properties of RCo$_5$, optical and magneto-optical, 21:2284 (AD-632608)
Co—rare earths, crystal structure and magnetic properties of, review of, 25:1331
Co—rare earths, crystal structure of, data tabulations on, 24:2948
Co—rare earths, development of magnetic intermetallic compounds of, 25:35306
Co—rare earths, electronic bonding in cubic intermetallic compounds of, role of 4f electrons in, 24:46742
Co—rare earths, fabrication of permanent magnets of intermetallic RCo$_5$, review of methods for, 25:643
Co—rare earths, magnetic properties of intermetallic compounds in, 23:8646 (CONF-681020-(Vol.1), pp 17-28)
Co—rare earths, magnetic properties of intermetallic compounds RECo$_5$ in, at 2 to 1000°K, 22:24392 (CONF-670502-, pp 295)
Co—rare earths, magnetic properties of ternary intermetallic phases of, containing two lanthanide, 24:44723(R) (NYO-3454-33)
Co—rare earths, preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
Co—rare earths, preparation of intermetallic compounds of, 21:26770
Co—rare earths, properties and uses of permanent magnets of intermetallic RCo$_5$, review of, 25:643
Co—rare earths, structure and stability of intermetallic compounds of, 25:32728
Co—rare earths—Si, crystal structure of complex silicides of, 23:39049
Co-rare earths, preparation by electrolysis for use in magnets, 23:10179
Cr—rare earths, preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
Cu—rare earth, antiferromagnetic ordering in RCu compounds, (T), 25:5197
Cu—rare earth, crystal structure and phase studies of, 22:36492
Cu—rare earths, magnetic properties of equiatomic compounds of, crystalline field and indirect exchange theory explanation of, 25:1314 (CONF-700403-(Vol.1), pp 102-14)
Cu—rare earths, magnetic susceptibilities and copper-63 NMR in cubic RCu$_5$, at 2.1 to 300°K, 25:1312 (CONF-700403-(Vol.1), pp 53-62)
Fe—Mn—O—rare earths, Moessbauer study of crystal and magnetic structure and quadrupole coupling in ionic compounds of, 22:7345 (NP-17133)
Fe—rare earth, magnetic properties of iron-rich intermetallic compounds of, 21:3491
Fe—rare earth, magnetic properties of Laves phase RFe$_2$, (E), 24:45357
Fe—rare earths, crystal structure of, data tabulations on, 24:2948
Fe—rare earths, electronic bonding in cubic intermetallic compounds of, role of 4f electrons in, 24:46742
Fe—rare earths, magnetic anisotropy of, Moessbauer study of, (E), 25:34082 (NYO-2028-5)

  Fe—rare earths, magnetic properties of intermetallic compounds in, 21:45916
  Fe—rare earths, phase studies of, 23:8209 (CONF-681020-(Vol.2), pp 473-84)
  Fe—rare earths, phase studies of intermetallic compounds of, 22:23822
  Fe—rare earths, phase studies of intermetallic compounds of, 22:23822
  Fe—rare earths, preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
  Fe—rare earths, properties of ternary intermetallic compounds of, containing two lanthanides, crystallographic and magnetic, 24:44723(R) (NYO-3454-33)
  Fe—rare earths, properties of, chemical and physical, 25:32691
  Ga—Ni—rare earth, crystal structure of intermetallic compounds of, 22:43594 (ANL-7299, pp 251-64)
  Ga—rare earth, crystal structure and phase studies of, 22:36492
  Ga—rare earth, crystal structure of intermetallic compounds in, effects of atomic radius on, 23:41654(T) (LA-tr-69-17)
  Ga—rare earths, crystal structure of intermetallic compounds of, 23:36126
  Ga—rare earths—S, phase studies of, 25:35571
  Ge—rare earth, structure of, 21:16623
  Ge—rare earths, physical properties of intermetallic compounds of, 23:36079
  Ge—rare earths—transition metals, crystal structure of ternary compounds of, 24:10096
  Hf—Mo-base—rare earth—Ti—V, mechanical properties of, effects of carbide, nitride, or oxide phases on, 22:23788
  Hf—rare earths, properties of, chemical and physical, 25:32691
  Hg—rare earth, crystal structure and phase studies of, 22:36492
  In—rare earth, crystal structure and phase studies of, 22:36492
  Ir—rare earth, Curie points of RIr_2, indirect exchange interaction calculations of, 24:24151
  Ir—rare earth, internal magnetic fields in intermetallic compounds, from iridium-193 Moessbauer effect, (E), 22:1348
  La—rare earth, magnetic properties of, correlation with crystal parameters, 21:20516
  Mg—rare earth, thermodynamics of formation of intermetallic phases in, as function of temperature, 21:41575 (IS-1600, Paper 5)
  Mg—rare earths, phase studies of, 25:16398 (IS-2300, pp 101-86)
  Mg—rare earths, thermodynamic properties of intermetallic compounds in, 23:6680
  Mg—rare earths—Zn—Zr, production and uses of, for engine block, precautions for, 25:16433
  Mg-rare earths, thermodynamics of phase formation in, 21:28772
  Mn—rare earths, crystal structure of intermetallic compounds of, 21:26839
  Mn—rare earths, crystal structure of, data tabulations on, 24:2948
  Mn—rare earths, magnetic properties of intermetallic compounds in, 21:45904
  Mn—rare earths, phase studies of, 21:13195
  Mo-base—rare earth—Ti—V—Zr, mechanical properties of, effects of carbide, nitride, or oxide phases on, 22:23788
  Ni—rare earth, magnetic and crystallographic properties of intermetallic compounds containing two rare earths, (E), 22:39161(R) (NYO-3454-22)
  Ni—rare earth, magnetic behavior of nickel in intermetallic compounds of, (T), 22:15598
  Ni—rare earth, magnetic properties and structure of RNi and R_3Ni, anisotropic interactions in, 24:24149
  Ni—rare earth, magnetic properties of intermetallic, pulsed-field, 25:52936 (CONF-711001-(Vol.1), pp 229-39)
  Ni—rare earth, magnetic properties of intermetallic Ln_2Ni_{17} (Ln = lanthanide or yttrium), (E), 22:39167 (NYO-3454-22, Paper 6)
  Ni—rare earth, magnetic properties of Ln_2Ni_{17} compounds, 22:52883
  Ni—rare earths, crystal structure of intermetallic RE_3Ni, 22:49759
  Ni—rare earths, crystal structure of, data tabulations on, 24:2948
  Ni—rare earths, electronic bonding in cubic intermetallic compounds of, role of 4f electrons in, 24:46742
  Ni—rare earths, phase studies of intermetallic compounds of, 22:23822
  Ni—rare earths, preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
  Ni—rare earths—Si, crystal structure of complex silicides of, 23:39049
  Ni—rare earths—Si, crystal structure of ternary compounds of, 24:17314
  Pb—rare earths, phase studies of, 24:14873(R) (IS-RD-20)
  Pb—rare earths, phase studies of, 22:2560(R) (IS-RD-11)
  Pb—rare earths, phase studies of, 25:16398 (IS-2300, pp 101-86)
  Pd—rare earth, magnetic properties of Pd_3R at 1.3 to 300°K, 25:47669
  Pd—rare earths, crystal lattice spacings in alpha-phase intermetallic compounds of, 24:46745
  Po—rare earths, preparation of rare-earth polonide films of, method for, 23:36025 (BNWL-1113)
  Pt—rare earths, preparation and structure, 21:6832
  Pt—rare earths, properties of, chemical and physical, 25:32691
  Pu—rare earths, phase studies of, 22:2655
  rare earth—Sb, crystal structure of intermetallic compounds in, 22:37720
  rare earth—Sb, crystal structure of intermetallic compounds in, 21:20529
  rare earth—Sb, electronic and magnetic properties of, 23:34501
  rare earth—Sb, magnetic coupling and NMR shifts in, effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
  rare earth—Sb, magnetic properties of, review, 21:20570
  rare earth—Sc, magnetic properties of, correlation with crystal parameters, 21:20516
  rare earth—Sn, composition and structure of intermetallic compounds in, 21:16623
  rare earth—Sn, crystal structure of intermetallic compounds in, 21:16622
  rare earth—steel, mechanical properties of, 21:11234
  rare earth—Th, electric conductivity of, effects of temperature, 21:13166
  rare earth—Th, magnetic susceptibility of, generalized functions for, (T), 25:43477
  rare earth—Y, magnetic properties at pressures up to 85 kbar, 21:14827
  rare earth—Y, magnetic properties of, correlation with crystal parameters, 21:20516
  rare earth—Zn, crystal structure and phase studies of, 22:36492
  rare earth—Zn, crystal structure of intermetallic compounds in, 21:20530
  rare earth—Zn, magnetic properties of compounds, effects of pressure on, 24:24147
  rare earth—Zn, magnetic studies of, with CsCl structure, 23:23265
  rare earths—Re, formation of intermetallic compounds of, 23:30068
  rare earths—Re, physical properties of intermetallic compounds in, 24:10064
  rare earths—Sb, crystal structure of intermetallic compounds in, 22:24388 (CONF-670502-, pp 145-54)
  rare earths—Sb, preparation and properties of intermetallic compounds in, 23:43301
  rare earths—Sb, properties and uses of single-crystal intermetallic compounds in, 23:8299 (CONF-681020-(Vol.2), pp 521-8)
  rare earths—Si—transition metals, crystal structure of ternary compounds of, 24:10096
  rare earths—Sn, analysis by arc spectrographic, chemical, or x-ray fluorescence methods, 22:44984
  rare earths—stainless steel, fabrication of, 22:6954
  rare earths—Th, phase diagrams of, 24:10104
  rare earths—transition metals, alloy phase structure of, review on, 25:52319 (CONF-710712-3)
  rare earths—transition metals, compressibility of intermetallic compounds of, strain gage measurements of, 25:13694
  rare earths—transition metals, crystal structure of intermetallic compounds of, 23:8224
  rare earths—transition metals, magnetic properties of R_3M intermetallic compounds, 25:5199
  rare earths—transition metals, phase diagrams, 23:48463
  rare earths—transition metals, preparation by heat treatment of amalgams of, 25:55401(T) (RFP-Trans-87)
  rare earths—transition metals, valence bonds in $CaCu_5$-type compounds, (T), 25:52376 (CONF-711001-(Vol.2), pp 617-29)
  rare earths—V, properties of, chemical and physical, 25:32691
  rare earths—Zn, crystal structure of zinc-rich phases in, 21:25935(R) (ANL-7225)
  rare earths—Zn, crystal structures of RZn_4 and R_3Zn_{11} compounds, 25:32730
  rare earths—Zn, Curie temperature of, effects of high pressures on, (E), 23:8654 (CONF-681020-(Vol.1), pp 137-44)
  rare earths—Zn, magnetic exchange interactions in effects of high pressure on, (E), 23:8654 (CONF-681020-(Vol.1), pp 137-44)
  rare earths—Zn-base, crystal structure of intermetallic compounds of, 25:2753
RARE EARTH ALUMINATES
  magnetic susceptibility at 1 to 4°K, (E), 23:1520
RARE EARTH ARSENIDES
  crystal structure of, 22:37720
  magnetic coupling and NMR shifts in, effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
  magnetic properties of, review, 21:20570
  preparation and properties of, 23:43301
  properties and uses of single crystals of, 23:8299 (CONF-681020-(Vol.2), pp 521-8)
  properties of, electronic and magnetic, 23:34501
RARE EARTH BORATES
  preparation by precipitation in specific media under controlled conditions, 24:9458
RARE EARTH BORIDES
  analysis for individual rare earths by spark spectroscopy, 24:9238
  book: Refractory Compounds of Rare Earth Metals with Nonmetals, in Russian, 21:5004
  compressibilities of RB_6, relationship prediction for, 25:22633
  crystal-field effects in properties of hexavalent, models of, 25:52955
  effects on superconducting transition temperatures of yttrium boride and zirconium boride, 24:19851
  electronic properties of hexaborides, (E/T), 22:44268
  formation of, comparison of literature and calculated heat of, 21:19619
  magnetic interactions in, 24:32926
  magnetic ordering in, (E), 22:37051
  magnetic susceptibility at room temperature, 21:14899
  properties of, 25:39610 (BM-IC-8476)
  solubility in hydrochloric, nitric, and sulfuric acids, 24:39713
  thermal capacity of, 23:9347(R) (COO-1149-136)
  thermal conductivity at room temperature, 21:14899
  thermodynamic properties of, 22:10204(R) (COO-1149-102)
RARE EARTH BROMIDES
  book: Halides of the Lanthanides and Actinides, 23:9398
  formation of, estimation of free energies of, 25:54712 (ORNL-4682, pp 1-38)
  properties at 1.3 to 300°K, electric and thermoelectric, 24:10163
RARE EARTH CARBIDES
  book: Refractory Compounds of Rare Earth Metals with Nonmetals, in Russian, 21:5004
  crystal structure of, 23:8365 (CONF-681020-(Vol.1), pp 197-206)
  crystal structure of, effects of temperature on, 21:23857 (CEA-R-3043)
  electric conductivity of, 22:24404 (CONF-670502-, pp 635-52)
  electric conductivity of, 22:26498
  electric conductivity of, 22:42659
  electric properties of, 21:23857 (CEA-R-3043)
  electronic structure of, 22:24404 (CONF-670502-, pp 635-52)
  magnetic properties of, 21:23857 (CEA-R-3043)
  magnetic properties of, 22:42659
  magnetic susceptibility of, 22:24404 (CONF-670502-, pp 635-52)
  magnetic susceptibility of, 22:26498
  physical properties of, temperature dependence of, 23:48570
  preparation of, 22:42659
  preparation of, 21:41640
  preparation of microspheres of, method for, 25:2795(P)
  properties of, 25:39610 (BM-IC-8476)
  properties of, thermal and thermodynamic, 22:42659
  thermoelectric power of, 22:26498
  thermoelectric properties of, 22:24404 (CONF-670502-, pp 635-52)
  vaporization kinetics of, 25:6915(R) (DP-Report-493)
  vaporization of, equipment for determining, 21:34954 (COO-716-028)
  C—rare earth carbides, fabrication of articles of, 21:13252(P)
  graphite—rare earth carbides, design of control rods for high temperature reactors of, 21:38602
  graphite—rare earth carbides, sorption testing in high temperature reactors, 21:38602
RARE EARTH CARBONATES
  preparation of, 22:25351
  preparation of mixed, for use as neutron shielding, 24:44765(P)
  reactions with EDTA, stability and structure of different hydrated forms of chelates formed by, 25:68 (CONF-700403-(Vol.1), pp 277-92)
  spectra of, ir, 25:48375 (COO-1109-63)
  structure at high temperatures, 25:8938
RARE EARTH CHALCOGENIDES
  rare earth chalcogenides—uranium chalcogenides, phase studies of combinations of, 25:43001
RARE EARTH CHLORIDES
  analysis for chlorine, microvolumetric, 22:48845
  book: Halides of the Lanthanides and Actinides, 23:9398
  chlorine NMR and NQR in, 22:39155(R) (COO-1533-7)
  chlorine-35 NQR in mixed alkali metal chlorides and, 22:39155(R) (COO-1533-7)
  compounds with aluminum chloride, use in separation of rare earths by gas—solid chromatography, 24:2295
  crystal field spectra of, superposition approximation, (T), 23:14885
  crystal structure of YCl_3-type, 22:39155(R) (COO-1533-7)
  crystallization from aqueous solutions, 24:11688
  formation of, estimation of free energies of, 25:54712 (ORNL-4682, pp 1-38)
  molal heat contents of aqueous solutions of, at 25°C, 24:38661 (IS-T-162)
  molar volumes of dilute aqueous solutions of, 24:13677 (IS-T-342)
  nuclear quadrupole resonance in, soft sphere model for, 25:57220 (COO-1533-15)
  preparation by reaction of rare earth oxalates with carbon tetrachloride, 22:2560(R) (IS-RD-11)
  preparation of anhydrous, 24:213 (ORNL-4422, pp 154-82)
  properties of, 25:39610 (BM-IC-8476)
  separation by gas—solid chromatography, 24:2295
  separation of chloride from solutions of, by solvent extraction using D2EHPA, 25:15561 (IS-2300, pp 7-20)
  separation of chloride ions from solutions of, by solvent extraction using bis(2-ethylhexyl) phosphate, 25:39593
  separation of lanthanum from, by solvent extraction using D2EHPA, 25:15561 (IS-2300, pp 7-20)
  separation of lanthanum from, by solvent extracton using D2EHPA and multistage mixer—settler extractor, 25:2310 (IS-T-411)
  separation of samarium from, by homogeneous precipitation, 21:1439
  separation of, by reversed-phase partition chromatography, effects of methylenebis[di(2-ethylhexyl)phosphine oxide]-impregnated paper on, 21:150
  thermodynamic properties of, 23:6680
  volatility of, radiochemical studies on, 25:51424 (CONF-711001-(Vol.1), pp 343-58)
RARE EARTH CHROMATES
  electric conductivity and thermo-emf of calcium or strontium-doped, as function of temperature, 23:39565
  fabrication of electrodes of, method for, 22:52247(P)
RARE EARTH CHROMITES
  use in high-temperature MHD electrode material, 24:12673(P)
  rare earth chromites—rare earth oxides—$YCrO_3$—ZrO_2, fabrication and preparation of electrically conductive, for electric heating elements and MHD generator electrodes, 24:6248(P)

rare earth chromites—YCrO$_3$—ZrO$_2$, fabrication and preparation of electrically conductive, for electric heating elements and MHD generator electrodes, 24:6248(P)
RARE EARTH DEPOSITS
mineralization of Idaho—Montana Lemhi Pass area, 25:46569 (CONF-680989-, pp 39-51.C)
RARE EARTH ETHYL SULFATES
spectra of, crystal-field splitting in, (E), 22:15588
RARE EARTH FERRATES
europium-153 Moessbauer effect in, exchange interactions from, (E), 22:24426
magnetic properties of, effects of pressure on, 22:24378 (CONF-670502-, pp 10-17)
RARE EARTH FLUORIDES
analysis for fluorides and rare earths, 22:18695 (UCRL-50383)
analysis for oxygen traces by carrier gas fusion-distillation method, 21:40772 (IS-1600, Paper 3)
analysis for traces of oxygen by carrier gas fusion, 23:213 (IS-1900, Paper 3)
analysis of, 22:30436(R) (UCRL-50006-68-1)
book: Halides of the Lanthanides and Actinides, 23:9398
complexes, thermodynamic properties of, use of calorimetry, potentiometry, and solvent extraction to determine, 22:30554
effects on radiation stability of beryllium fluoride glasses, 25:34621
formation of, standard enthalpies of, 22:36543 (ANL-7450, pp 39-74)
phase transitions in, effects of shock waves on, 23:12436
photon reactions with, energy spectra of 4f and valence electrons ejected in, (E), 25:52615
preparation and high-temperature properties of, 25:3957 (IS-T-384)
preparation and purification of high purity, method for, 21:41575 (IS-1600, Paper 5)
preparation of, 21:12435(P)
preparation of high—purity, methods for, 25:16398 (IS-2300, pp 101-86)
production by reactions of dichlorodifluoromethane with rare earth oxides at 450 to 800°C, 24:41296
properties of, 25:39610 (BM-IC-8476)
properties of high-purity, physical and structural, 25:16398 (IS-2300, pp 101-86)
reduction to mischmetal, calcio-thermic, 22:43547
separation from fuels of molten fluorides using uranium trifluoride, 22:23126(P)
separation from MSBR fuels, evaluation of low pressure distillation for, 21:17707 (ORNL-TM-1730)
spectra in argon matrices at 15°K, ir absorption, 24:31195 (RLO-2097-3)
sublimation and vaporization of, review of mass spectrometric studies of, 21:10314 (ORO-2907-16)
volatilities of, 21:45201 (ORNL-4145, pp 95-103)
volatilities of, relative to lithium fluoride, 22:16484 (ORNL-4075, pp 62-6)
rare earth fluorides—ThF$_4$, preparation of, 21:12435(P)
RARE EARTH FORMATES
structure at high temperatures, 25:8938
RARE EARTH HALIDES
crystal structures of salt-like dihalides, review on, 25:51466 (CONF-711001-(Vol.1), pp 74-83)
formation of metallic phases in, 22:31996
preparation of,, 22:14482 (ORNL-4196, pp 90)
reactions of, with cadmium and zinc sulfides to prepare luminescent material, 21:12434(P)
thermodynamic properties of, effects of crystal field on, 23:28844
RARE EARTH HYDRIDES
bibliography on, 1950 to 1968, 24:14895 (MLM-1673)
book: Metal Hydrides, 23:24974
crystal structure and properties of, review of, 21:20467
electronic properties of, review, 24:3459 (SC-RR-69-571)
phase diagrams, 24:4844
properties of binary, review of physical and thermodynamic, 24:4844
stoichiometry of, effects on crystal structure defects on deviations from, 22:24387 (CONF-670502-, pp 132-44)
thermodynamic properties of, 23:6680
RARE EARTH HYDROXIDES
aging of sols of, electron-microscopic studies of, 22:14432 (ORNL-4196, pp 63-6)
basicities of, 25:54718 (ORNL-4682, pp 168-81)
chemistry of, solid-state, 22:44238
crystal structure of, 25:20992(R) (ORO-3955-2)
crystal structure of, 22:44238
crystal structure of hydrous, 24:20748(R) (ORO-3955-1)
crystallization of, 24:213 (ORNL-4422, pp 154-82)
deposition on solid substrates from alcohol-base electrolytes, cathodic, 24:39693(P)
growth of single crystals of, hydrothermal, 25:41704 (YALE-3227-66)
magnetic properties of, 25:5202
preparation and properties of gels and sols of, review on, 23:3155
preparation of, 22:22991 (CONF-670502-, pp 175-86)
properties of sols of, effects of aging on, 24:177 (ORNL-4422, pp 312-15)
properties of, electron diffraction, electron microscopy, and x ray studies on, 24:29176 (CONF-700502-, pp 464-75)
radiation effects on aged sols of, γ, 24:214 (ORNL-4422, pp 300-3)
solubilities and solubility products in water, 25:51468 (CONF-711001-(Vol.1), pp 322-9)
RARE EARTH IODATES
hydration of, thermodynamics of, 22:21054 (ORO-1797-11, pp 1-113)
RARE EARTH IODIDES
book: Halides of the Lanthanides and Actinides, 23:9398
RARE EARTH IONS
book: Spectra and Energy Levels of Rare Earth Ions in Crystals, 23:5493
coordination in solvent extraction systems, spectral studies on, 23:13688 (DP-MS-67-97-X-1)
crystalline field screening constants of 4f/sup x/ shells of, calculations, 23:7042
electric multipole interactions between, higher-degree, (T), 22:17422
electron paramagnetic resonance, 24:30408
energy transfer between, and rigid matrices, 24:13700(R) (ORO-3797-3)
energy transfer interactions between, in sodium tungstates, nonradiative, 21:42929
excitation and energy transfer in phosphors, review, 25:7147
luminescence in cesium uranyl chlorides at 77 and 300°K, 21:21961
luminescence in polyphosphoric acids, 23:45250
neutron magnetic form factors for scattering studies, tensor calculations, 24:49262
perturbed angular correlation in NMR of, effects of coaxial magnetic and electric fields on time-integral, (T), 25:27918
photoabsorption coefficients for, in crystalline solids, 23:46552(R) (RLO-2012-3)
radiation effects on fluorescence and thermoluminescence of trivalent, in calcium fluoride solutions, 21:15917 (NP-16611)
radioinduced movement of charge-compensating ions in calcium fluoride crystals doped with, ESR study of, 24:19975
radioinduced reduction in calcium fluoride, mechanism of gamma and x, 21:44182
radioinduced reduction of trivalent, in calcium fluoride at 80 to 450°K, x, 21:15917 (NP-16611)
radioinduced thermoluminescence in calcium fluorides, spectra of gamma and x, 21:44181
reactions of, with nitrate ions, 21:5834 (IA-1082, pp 77-202)
reactions with nitrate ions in fused salts, 21:35916(R) (IA-1068)
relaxation times in magnetic and nonmagnetic garnets, (E), 21:16999
spectra in single crystals, two-photon, (E/T), 25:52942 (CONF-711001-(Vol.2), pp 465-77)
spectra of, dynamics of ENDOR, 23:8665(R) (COO-294-8)
spectra of, research program on, 25:49714(R) (NYO-1447-70)
wave functions for, accuracy of Hartree—Fock 4f radial, 23:30316
RARE EARTH ISOPROPOXIDES
preparation and properties of, 22:23002 (CONF-670502-, pp 392-402)
RARE EARTH ISOTOPES
alpha decay of, barrier penetrabilities and reduced widths for, (T), 23:11076
coupling between one-particle orbitals in, ΔN = 2, (T), 25:50812
cross section measurements of, nondestructive and destructive methods of analysis used in fabrication of targets for, 25:57345 (CONF-711002-, pp 293-306)
deuteron reactions (d,p) with even-A, analysis using modified Nilsson orbitals, (T), 22:32649
deuteron reactions (d,p) with odd-A, differential cross sections for excitation of rotational states in γ-vibrational bands, (T), 22:20647
distribution in Ligurian Sea sediments, measurement of vertical, 25:41949
distribution pattern in particles and rainwater, from fission bombs, 23:13278
energy levels from (α, 2nγ) and (p,2nγ) reactions, rotational, (T), 21:15577
energy levels in giant dipole resonance region of deformed even-even, calculations using finite Fermi system theory, (T), 23:7282 (UJV-2081-F)
energy levels in rotational bands, mean square radii of, (E/T), 22:50600 (MIT-2098-479)
energy levels in Woods-Saxon potential, E1 transition probabilities for single-particle, (T), 22:44710
energy levels of A = 150 to 174 deformed, effects of spin-quadrupole forces on collective 2$^+$, (E/T), 22:39664
energy levels of deformed A = 150 to 186, collective, (E), 22:27149
energy levels of deformed even—even, dipole, (T), 22:53176
energy levels of deformed even-A, in γ-vibrational bands, rotational, (T), 22:20647
energy levels of deformed even-A, K = O$^+$, (T), 22:48580 (JAERI-1158, pp 106-12)
energy levels of deformed odd-A, with A = 153 to 187, collective, (T), 22:20649
energy levels of deformed, calculations using centrifugal stretching model, (T), 23:32933
energy levels of deformed, calculations using finite potential with diffuse edge for single-particle, (T), 23:17114
energy levels of deformed, collective O$^+$, (T), 22:27329
energy levels of deformed, structure and transition probabilities of 0, (T), 22:9851 (JINR-P4-3576)
energy levels of deformed, wave functions for single-particle, (T), 22:9852 (JINR-P4-3607)
energy levels of even—even deformed, structure and spin—spin correlations for collective 1$^+$, (T), 25:56819 (JINR-P4-5889)
energy levels of even—even, calculations including Coriolis decoupling and centrifugal stretching for rotational, (T), 23:5904
energy levels of even—even, non-adiabaticity of β-vibrational, (T), 22:13992 (IIAE-LR-18)
energy levels of even-even, anharmonic effects in, (T), 23:1894
energy levels of even-even, systematics of collective, (T), 22:48517 (JAERI-1158, pp 39-46)
energy levels of odd-A = 153 to 187, I^2(I + 1)^2 corrections to, (T), 23:19290
energy levels of odd-A deformed, survey on nonrotational, 23:25901 (IN-1218, pp 73-138)
energy levels of odd-A, analysis using Nilsson model for single-particle and vibrational, 23:23773
energy levels of Z > 50 N < 82, deformation parameters for, (T), 23:19298
energy levels of, calculations using shell model with quadrupole force and BCS approximation for, (T), 23:17124
energy levels of, calculations using surface delta interaction, (T), 23:8990
energy levels of, collective potential energy surface for calculating, (T), 23:5952
energy levels of, hexadecapole deformation effects on one-quasiparticle, (T), 23:44886(T) (KFK-tr-294)
energy levels of, hexadecapole deformation effects on one-quasiparticle, (T), 23:19251 (JINR-P4-4259)
energy levels of, Nilsson model calculations of equilibrium deformations of, (T), 25:20367 (INR-P-1216)
energy levels of, review of research on rotational, 24:1848
energy levels of, single-particle proton, (T), 22:48572 (IAE-1447)
energy-level density in, effects of structure of one-particle spectrum on, (T), 24:38337
energy-level excitations in (d,p) reactions, spectroscopic factors for gamma-vibrational, (T), 22:3726
energy-level transition probabilities for rotational bands of A = 150 to 190, E2, (T), 22:13993 (IIAE-LR-19)
energy-level transition probabilities for, systematics of K-forbidden, (E/T), 22:18236
energy-level transitions in deformed, internal conversion electron particle parameters for E2, (E), 22:27185
energy-level transitions in even-even, L-subshell intensity ratios of E2, (E), 21:2651(R) (AECL-2612)
energy-level transitions in odd deformed, calculations using finite-Fermi system theory for single-particle E1 ΔK = 1, (T), 23:5877
energy-level transitions of even, properties of 1$^+$ excitations and spin—spin interactions in M1, 24:26636 (JINR-E4-4908)
hyperfine structure measurements using Moessbauer effect, 23:23625 (NP-17768)
inhalation by animals, effects and metabolism following, 23:29312 (COO-1630-10)
internal conversion in, E1, (E/T), 21:7806
internal conversion in, effects of static nuclear deformation on, (T), 22:50665
metabolism in mammals and man, review of, 25:32326
neutron capture by, γ spectra for thermal, (E), 23:37193 (KURRI-TR-10, pp 66-70)
neutron capture by, γ spectra from thermal, (E), 22:50604
neutron elastic and inelastic scattering by deformed even—even, fast, (E), 23:1882 (WASH-1093)
nuclear deformation in collective model, (T), 23:5952
nuclear deformation parameters and quadrupole and hexadecapole moments for, (T), 25:5860
nuclear equilibrium distortions in, calculation of P$_2$, P$_4$, and P$_6$, (T), 24:28847
nuclear moments of inertia for, calculations using effective internal Hamiltonian with degeneracy with respect to angular momentum, (T), 23:19383
nuclear rotation in, angular momentum projection approach to, (T), 25:20541
nuclear spectroscopy of, survey on, 25:12523 (LYCEN-7034, pp 58-83)
photon absorption in giant resonance region, cross section for, (T), 23:7282 (UJV-2081-F)
photon reactions (γ,n) and (γ,p) at 30 MeV, γ spectra from, (E), 23:5865 (AERE-R-5818)
preparation of carrier-free, by thin-layer chromatography using bis(2-ethylhexyl) ester of orthophosphoric acid, 21:32240
preparation of high-purity metallic, using reduction—distillation method, 23:48358
production and use of radioactive, in Japan, 24:41624
production by alpha or neutron bombardment of rare earths in molecular sieve, 25:2295 (ORNL-4572, pp 225-30)
production by neutron capture reaction of rare earth-loaded zeolites, 25:202 (CONF-700403-(Vol.1), pp 448-59)
production by neutron fission of plutonium-239 and plutonium-241, 25:15690
production in deuteron and proton fission of thorium-232 at 11 MeV, yields of, (E/T), 25:10054
production of even-even isomeric, in (α,2nγ) and (p,2nγ) reactions, (T), 21:15577
production of high-purity, reduction-distillation method for, 23:7549 (CONF-681020-(Vol.2), pp 459-71)
production of neutron-deficient, by proton irradiation of rare earth complexes with DTPA at 660 MeV, 23:40712
production of neutron-deficient, from proton-irradiated gadolinium and neodymium, 22:33391
radioactivity standards of, users' guides for, 25:29174
reactions of recoil, in proton-irradiated aqueous suspensions of rare earth phosphates, 24:25079
separation by mass spectroscopy, surface reactions in ion source for, 24:44204
separation of neutron-deficient, from proton-irradiated gadolinium and neodymium targets by anion exchange, 22:33391
separation of radioactive, electromagnetic method for, 25:34805 (JINR-P6-5761)
separation of radioactive, using sodium amalgam, 23:13845
separation of recoil, from radiolysis of phthalocyanine complexes by chromatography, 24:36332
separation of short-lived, as phthalocyanine complexes, extraction chromatographic method for continuous and rapid, 24:50452

  separation of short-lived, from fission products, 24:29308(R) (BMBW-FBK-70-4)
  separation of stable, use of mass spectrometer for, 21:1528
  spectra of, conversion electron, 22:14525
  uptake of radioactive, in organs and tissues of animals, effects of amino acids and proteins on, 25:29445
  yields and gamma spectra from heavy-ion fission of uranium-238, (E), 24:11018
  yields from neutron fission of plutonium-239 and plutonium-241, 25:15689
  yields in fast neutron fission of neptunium-237 and protactinium-231, (E), 23:1893
Rare Earth Lithium Oxides
    see Lithium Rare-Earth Oxides
RARE EARTH MINERALS
    see also Allanites
    see also Gadolinites
  age of hafnium-176/lutetium-176 method for estimation of, 22:6477
  analysis for europium and samarium by fluorescent method, 23:7461
  analysis for individual rare earths by x-ray fluorescence spectrometry, 23:35
  analysis for samarium and gadolinium by neutron-capture γ activation methods, apparatus for, 24:16476
  analysis of concentrates of, for yttrium by neutron activation, 25:57382
  analysis of vanadium-containing, for rare earths using Arsenazo I, colorimetric, 21:42905
  book: Flotation Properties of Rare Earth Minerals, 22:18910
  chlorination at 1000 to 1200°C, 22:23091 (CONF-670502-, pp 702-13)
  occurrence in India, 23:26378
  prospecting, mining, and processing of, 25:39610 (BM-IC-8476)
  rare earth content of, data summary of, 23:21831
  reserves and resources of, in Union of South Africa, 24:22798 (PEL-193)
  resources of, worldwide, 25:39610 (BM-IC-8476)
  separation of hafnium and zirconium from, 22:33225
RARE EARTH MOLYBDATES
    see also Scandium Molybdates
  analysis for impurities, spectrographic, 25:37278
  preparation by precipitation in specific media under controlled conditions, 24:9458
  preparation of, for control elements, 21:9218(P)
RARE EARTH NIOBATES
  magnetic susceptibility and crystal growth of, (E), 23:1519
  magnetic susceptibility at 1 to 4°K, (E), 23:1520
RARE EARTH NITRATES
  complexes of, with TBP, infrared and Raman spectra of, 21:10333
  complexes with pyridine-1-oxide, precipitation and solubility of, 22:33360
  complexes with TBP, coordination of rare earth ions in, 23:13688 (DP-MS-67-97-X-1)
  complexes with triphenylarsine oxide, preparation and properties of, 22:21060
  crystal structure of hexahydrates of, 23:213 (IS-1900, Paper 3)
  crystallization of double, with magnesium, chemical anomalies of actinium in fractional, 23:11504
  molar volumes of dilute aqueous solutions of, 24:13677 (IS-T-342)
  separation by extraction chromatography using methylenebis[bis(2-ethylhexyl)phosphine oxide] and methylenebis[(dihexyl)phosphine oxide], 22:16665
  separation by solvent extraction using TBP containing neutral salting-out agents, 23:7614
  separation of cerium from solutions of, by hydrolysis in presence of hydrogen peroxide, 25:15730(T) (UCRL-Trans-10512)
  separation of, by reversed-phase partition chromatography, effects of methylenebis[di(2-ethylhexyl)phosphine oxide]-impregnated paper on, 21:150
  spectra of, crystal-field splitting in, (E), 22:15588
  thermal decomposition of, to prepare rare-earth oxides, 24:42207
  alkali metal nitrates—rare earth nitrates, precipitation of rare earth oxides and oxide nitrates from molten, 22:23001 (CONF-670502-, pp 385-90)
RARE EARTH NITRIDES
  book: Refractory Compounds of Rare Earth Metals with Nonmetals, in Russian, 21:5004
  crystal structure defects and nonstoichiometry of, 22:24386 (CONF-670502-, pp 112-31)
  crystal structure of, 22:37720
  electric conductivity of, 22:26498
  electric conductivity of, 22:42659
  magnetic properties of, 22:42659
  magnetic properties of, review, 21:20570
  magnetic susceptibility of, 22:26498
  preparation and properties of, 23:43301
  preparation of, 22:42659
  properties and uses of single crystals of, 23:8299 (CONF-681020-(Vol.2), pp 521-8)
  properties of, 25:39610 (BM-IC-8476)
  properties of, electronic and magnetic, 23:34501
  properties of, thermal and thermodynamic, 22:42659
  substoichiometry in, existence of, 25:32829
  thermoelectric power of, 22:26498
  C—rare earth nitride, fabrication of articles of, 21:13252(P)
RARE EARTH OXALATES
  decomposition of hydrated, in air or carbon dioxide, x-ray studies of rare earth dioxymonocarbonates produced by, 25:48376 (COO-1109-64)
  reactions with carbon tetrachloride for conversion to chloride, 22:2560(R) (IS-RD-11)
  structure and properties of, 25:51469 (CONF-711001-(Vol.1), pp 330-42)
RARE EARTH OXIDES
    see also Erbium Lanthanum Oxides
    see also Holmium Lanthanum Oxides
    see also Lanthanum Lutetium Oxides
    see also Lanthanum Thulium Oxides
    see also Lanthanum Ytterbium Oxides
    see also Lanthanum Yttrium Oxides
    see also Lithium Rare-Earth Oxides
  abundance in average carbonatites, 23:13885
  analysis for cerium and lanthanum by x-ray fluorescence, 22:50928
  analysis for cerium, lanthanum, neodymium, praseodymium, and samarium, spectrographic, 25:34511
  analysis for cerium, spectrofluorometric, 23:26150
  analysis for europium and ytterbium by polarography, 22:45017
  analysis for impurities, electrode development for spectroscopic, 25:28948
  analysis for impurities, polarographic, 25:57311
  analysis for impurities, preparation of standards for, 23:213 (IS-1900, Paper 3)
  analysis for individual rare earths by x-ray fluorescence spectrometry, 23:35
  analysis for rare earth impurities, by chemical-luminescence and chemical-spectral methods, 23:49708
  analysis for rare earths by photon activation methods, 22:27591
  analysis for rare earths, spectrographic, 23:37890
  analysis for thorium after extraction using bis(2-ethylhexyl) phosphate—TBP mixture, photometric, 23:34998
  analysis for thorium and uranium by TBP extraction and photometry, 25:57341
  analysis for trace impurities by atomic absorption spectroscopy, 21:40772 (IS-1600, Paper 3)
  analysis for yttrium by bremsstrahlung activation and γ spectrometry, 24:46198(R) (NBS-TN-508)
  analysis for yttrium by photon activation, 23:35025 (NBS-TN-458)
  analysis of mixture of, for europium oxide by ultraviolet spectrophotometry, 22:18725
  analysis of mixtures of, for dysprosium, erbium, holmium, scandium, thulium, and yttrium, flame photometric, 21:12416
  analysis of mixtures of, for europium and yttrium, arc excitation and spectrographic method for, 24:46168 (BARC-470)
  analysis of, for terbium, fluorometric, 21:4466
  analysis of, using spark source, mass spectrographic, 21:1305
  chemical bonds in, 21:14887
  chemistry of, solid state, 21:45070(R) (COO-1109-25)
  chemistry of, solid-state, 22:44238
  compatibility with iron and nickel at high temperatures, 25:52299
  crystal defects in, methods for determining, 24:17357 (IS-2100, Sect. C and ME)
  crystal structure above 2000°C, transformations in, 23:12437
  crystal structure defects and nonstoichiometry of, 22:24386 (CONF-670502-, pp 112-31)
  crystal structure of, 22:44238
  crystal structure of hydrous, 24:20748(R) (ORO-3955-1)
  crystal structure of mixed, 23:1053
  crystal structure of, anion—cation distances, 24:39722
  crystal structure of, effects of coordination of oxygen atom on, 22:22999 (CONF-670502-, pp 329-40)
  crystalline structures at high temperatures, transformations of, 21:26923
  crystalline transformations at high temperatures, 21:26923
  determination in rare earths, electrode development for spectroscopic, 25:28948
  determination in tantaloniobates, methods for, 23:26154
  diffusion of oxygen in, 22:42650 (COO-1109-35)
  diffusion of oxygen in, effects of pressure and temperature on, 24:29922 (IS-RD-21)
  diffusion of oxygen in, self-, 22:36537
  diffusion of yttrium oxide in, kinetics of, 24:14873(R) (IS-RD-20)
  effects as impurity on cerium oxide crystallization, 22:41091
  effects as impurity on crystallization of thorium dioxide, 22:41091
  effects as impurity on hafnium oxide crystallization, 22:41091
  effects on magneto-optical properties of europium oxide films, 22:52882
  effects on oxidation of hydrogen, effects of oxygen mobility on catalytic, 22:6304
  effects on polymorphism of hafnium and zirconium oxides, 23:12438
  effects on polymorphism of zirconium dioxide, 23:39053
  effects on stability of uranium dioxide at high temperatures, 24:3041
  elastic properties of, effect of porosity and temperature on, 22:2560(R) (IS-RD-11)
  electric conductivity of, 22:31478
  electric conductivity of nonstoichiometric and sesquioxides, 25:1317 (CONF-700403-(Vol.1), pp 345-54)
  electric current—voltage characteristics of thin films of, to breakdown threshold, (E/T), 24:8194
  electric potentials of, effects of heat treatment on contact difference of, 21:12411
  electric transport properties, 25:45603
  electron band structure of, density of states in, 24:10625
  electron reactions at 60 to 140 keV, K/sub α//K/sub β/ x-ray spectra from, (E), 25:49703
  electron transport in sesquioxides and nonstoichiometric oxides of, 25:14469
  fabrication by slip casting, 21:32952 (BNWL-437)
  formation of, comparison of literature and calculated heat of, 21:19619
  formation of, enthalpies, entropies, and Gibbs energies of, 22:42658
  growth of lanthanide oxyhydroxide single crystals, hydrothermal, 21:13223 (ORNL-3970, pp 3-5)
  hazards from, 21:10241(T) (TT-65-50023/5)
  incorporation in refractory concrete shielding with improved mechanical properties, 22:52250(P)
  magnetic structure of cubic, representation analysis, 25:5215
  mass transport properties of, 22:42650 (COO-1109-35)
  melting temperature of, 21:30431
  oxygen diffusion in, effects of temperature on, 22:2560(R) (IS-RD-11)
  oxygen transport properties of, 24:38651 (COO-1109-54)
  oxygen-18 exchange between enriched oxygen gas and, kinetics of, 23:40663
  oxygen-18 exchange between molecular oxygen and, 24:13824
  phase studies, 22:4800
  phase transitions in, effects of shock waves on, 23:12436
  phase transitions in, effects of stoichiometry on, 25:38032
  polymorphism of, 24:42207
  precipitation from molten alkali metal nitrate—rare earth nitrate mixtures, 22:23001 (CONF-670502-, pp 385-90)
  preparation by sol-gel process for use in industry, 22:11031
  preparation by thermal decomposition of nitrates, 24:42207
  preparation from sols, control methods for composition and shape using hydrated oxides or hydroxides, 23:22638
  preparation of, 22:25351
  preparation of formed bodies of, sol-gel method for, 24:36955(P)
  preparation of lower, investigation of, 21:45138
  preparation of metal dispersions of, methods, 21:18323 (INR-751/XIV/PR)
  preparation of microspheres of lanthanide, sol-gel process for, 25:49521(P)
  preparation of microspheres of, by sol-gel process, 22:4859
  preparation of microspheres of, by sol-gel process, developments in, 21:43652 (ORNL-TM-1980)
  preparation of microspheres of, method for, 25:2795(P)
  preparation of microspheres of, using sols or solutions, equipment and method for, 25:8916(P)
  preparation of monocrystals of, methods for, 21:45074 (COO-1109-25, pp 75-82)
  preparation of single crystals of, 22:42650 (COO-1109-35)
  preparation of sols of, 22:26073 (ORNL-TM-2205)
  preparation of sols of, by precipitation-washing-peptization procedure, 24:1069 (ORNL-4422, pp 239-51)
  preparation of sols, gels, and microspheres of, 22:22991 (CONF-670502-, pp 175-86)
  preparation of, by sol-gel process, significance of, 21:5844 (ORNL-TM-1682)
  preparation with transition metal oxides of mixed-phase, by decomposition of metal alcoholates, 23:22637
  processing at Port Pirie, Australia, 23:11668
  properties and uses, review on, 23:17423
  properties for fabrication into reactive metal containers, 23:32054(P)
  properties of, 25:39610 (BM-IC-8476)
  properties of gels and sols of, for preparing microspheres, 21:49 (ORNL-TM-1592)
  properties of hydrates of, for use as ion exchange membranes, 24:9294(P)
  properties of sols of, 25:2775 (ORNL-4572, pp 242-50)
  properties of, chemical and physical, 25:32691
  properties of, chemical, electric, magnetic, mechanical, and optical, 24:48895
  radiation effects on catalytic properties of, in decomposition of hydrogen peroxides, 25:4099
  rare earth isotopic distribution in, neutron activation determination of, 22:45008
  reactions with barium and uranium, yields from, 21:30422
  reactions with hafnium dioxide, study of phases formed during, 25:8935
  reactions with metals, thermodynamics of reduction, 25:32660
  reactions with neptunium oxides, crystal structure of compounds from, 23:49777
  reactions with sodium oxides, 23:41729
  reactions with strontium and uranium, yields from, 21:30422
  reduction of, 23:7549 (CONF-681020-(Vol.2), pp 459-71)
  reduction to metal, 22:23727 (CONF-670502-, pp 653-64c)
  research progress on solid-state chemistry of, 24:51219(R) (COO-1109-52)
  separation from uranium oxide or thorium oxide by selective iodination, 23:2407
  separation of rare earth impurities from, by extraction chromatography using bis(2-ethylhexyl) phosphate, 23:49708
  separation of samarium from, by homogeneous precipitation, 21:1439
  spectra of, crystal-field splitting in, (E), 22:15588
  spectra of, diffuse-reflectance, 21:25833
  spectra of, in oxyacetylene flame, absorption, 21:40772 (IS-1600, Paper 3)
  spectra of, widths of forbidden zones in reflected, 22:4107
  stability of, effects of lime additions on, 21:5008
  stabilization of, using tungsten trioxide, 23:1020 (IS-1900, Paper 1)
  structure of, coordination of oxygen atom in, 21:40772 (IS-1600, Paper 3)
  tensile properties of, review of, 24:46788
  thermal capacities of, 22:42658
  thermal decomposition of, radiochemical studies on, 25:51424 (CONF-711001-(Vol.1), pp 343-58)

  thermodynamic properties of, 23:6680
  thermodynamic properties of, effects of crystal field on, 23:28844
  use in preparation of actinide oxide fuels, 22:13057(P)
  vaporization kinetics near 2000°C, 21:26901
  vaporization studies on, 23:28781(R) (COO-1182-29)
  volatility of, radiochemical studies on, 25:51424 (CONF-711001-(Vol.1), pp 343-58)
  Al_2O_3—rare earth oxides, phase diagram, 23:27193
  $BaSO_4$—kaolin—rare earth oxides—ZrO_2, properties of compact sintered mixes of, for use as high-temperature radiation shielding, 24:30033
  Bi_2O_3—rare earth oxides, crystal structure of, 23:1053
  C—rare earth oxide, fabrication of articles of, 21:13252(P)
  C—rare earth oxides, preparation of organosols of, 22:25370(P)
  Eu—EuO—rare earth oxides, ferromagnetic transition temperature of, (E), 22:15629
  graphite—rare earth oxides, fabrication of neutron absorbers of, 24:4833(P)
  H_2O—rare earth oxides, phase studies of, 25:42934 (COO-1109-60)
  HfO_2—rare earth oxides, phase studies on, 23:12438
  Nb_2O_5—rare earth oxides, phase studies of, 22:4895
  Pa_2O_5—rare earth oxides, phase studies of, 22:4895
  PbO—$PbSiO_3$—rare earth oxides—ZrO_2, properties of compact sintered mixes of, for use as gamma and neutron shielding, 24:30033
  rare earth chromites—rare earth oxides—$YCrO_3$—ZrO_2, fabrication and preparation of electrically conductive, for electric heating elements and MHD generator electrodes, 24:6248(P)
  rare earth oxide—ZrO_2, phase studies of, review, 21:11316
  rare earth oxide—ZrO_2, properties for use as high-temperature electric conductor or insulator, 25:8936
  rare earth oxides—SiO_2, phase diagram, 23:27193
  rare earth oxides—Ta_2O_5, phase studies of, 22:4895
  rare earth oxides—TeO_2, compound formation in, by solid-state reactions, 23:2269
  rare earth oxides—ThO_2, properties of, data tabulations on crystal and magnetic, 24:46784 (ORNL-4503(Vol.1))
  rare earth oxides—TiO_2, crystal structure of, 23:1053
  rare earth oxides—ZrO_2, crystal structure of, 23:1053
  rare earth oxides—ZrO_2, formation and properties of solid solutions of, regularity in, 25:35545
  rare earth oxides—ZrO_2, formation of solid solutions of, kinetics of, 25:8935
  rare earth oxides—ZrO_2, hardness of solid solution, effects of ordering and rare earth concentration on micro-, 24:14927
  rare earth oxides—ZrO_2, melting of mixtures of, x-ray fluorescence and powder diffraction studies on products of, 23:12439
  rare earth oxides—ZrO_2, phase diagram at high temperatures, 25:32828
  rare earth oxides—ZrO_2, phase studies on, 23:12438
RARE EARTH OXYBROMIDES
  book: Halides of the Lanthanides and Actinides, 23:9398
RARE EARTH OXYCARBIDES
  phase studies of, 24:46804
RARE EARTH OXYCHLORIDES
  book: Halides of the Lanthanides and Actinides, 23:9398
  production by reactions of fused chlorides with oxygen, 22:33353
RARE EARTH OXYFLUORIDES
  book: Halides of the Lanthanides and Actinides, 23:9398
  magnetic susceptibility and crystal growth of, (E), 23:1519
  preparation and structure of, 21:4483(R) (COO-716-023)
RARE EARTH OXYIODIDES
  book: Halides of the Lanthanides and Actinides, 23:9398
RARE EARTH OXYNITRATES
  precipitation from molten alkali metal nitrate—rare earth nitrate mixtures, 22:23001 (CONF-670502-, pp 385-90)
RARE EARTH PERCHLORATES
  molar volumes of dilute aqueous solutions of, 24:13677 (IS-T-342)
  separation of, by reversed-phase partition chromatography, effects of methylenebis[di(2-ethylhexyl)phosphine oxide]-impregnated paper on, 21:150
  viscosity of aqueous solutions of, 23:213 (IS-1900, Paper 3)
RARE EARTH PHOSPHATES
  ion exchange properties of, 24:25079
  properties of aqueous suspensions of, as target materials in synchrocyclotrons, 24:25079
  radiation effects on aqueous suspensions of, reactions of recoils from 660-MeV proton, 24:25079
RARE EARTH PHOSPHIDES
  crystal structure of, 22:37720
  magnetic coupling and NMR shifts in, effects of temperature on, (E/T), 23:8655 (CONF-681020-(Vol.1), pp 261-72)
  magnetic coupling in, NMR studies of s-f exchange energy for, 22:24383 (CONF-670502-, pp 68-77)
  magnetic properties of, review, 21:20570
  phosphorus nuclear magnetic resonance in, 22:24383 (CONF-670502-, pp 68-77)
  preparation and physicochemical properties of, 22:14487(T) (UCRL-Trans-10222)
  preparation and properties of, 23:43301
  properties and uses of single crystals of, 23:8299 (CONF-681020-(Vol.2), pp 521-8)
  properties of, electronic and magnetic, 23:34501
RARE EARTH SELENIDES
  analysis for selenium by atomic absorption, 25:216(R) (MLM-1726)
  bibliography of solid-state chemistry of binary, 24:4834
  chemical bonds in, 21:14887
  crystal structure and phases in, differential thermal analysis and x-ray studies of, 25:29981
  crystal structure defects and nonstoichiometry of, 22:24386 (CONF-670502-, pp 112-31)
  crystal structure of, 22:24388 (CONF-670502-, pp 145-54)
  crystal structure of, 22:37720
  properties of, 25:39610 (BM-IC-8476)
RARE EARTH SELENITES
  crystal structure of, anion—cation distances, 24:39722
RARE EARTH SILICATES
  formation in decomposition of monazites, 21:25958
  separation from monazites, 21:40970
RARE EARTH SILICIDES
  book: Refractory Compounds of Rare Earth Metals with Nonmetals, in Russian, 21:5004
  effects of additions of, on deoxidation of carbon steel, 22:21670 (BM-RI-7091)
  hydrolysis of, yields of silanes from, 21:10307 (IS-T-135)
  preparation of, by combination of elements in arc melter under argon, 21:10307 (IS-T-135)
  properties of, 25:39610 (BM-IC-8476)
  structure of, 21:16623
Rare-earth Sodium Tungstates
    see Sodium Rare-earth Tungstates
RARE EARTH SULFATES
  decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
  properties of, 25:39610 (BM-IC-8476)
RARE EARTH SULFIDES
  bibliography of solid-state chemistry of binary, 24:4834
  book: Refractory Compounds of Rare Earth Metals with Nonmetals, in Russian, 21:5004
  chemical bonds in, 21:14887
  crystal structure and phases in, differential thermal analysis and x-ray studies of, 25:29981
  crystal structure defects and nonstoichiometry of, 22:24386 (CONF-670502-, pp 112-31)
  crystal structure of, 22:37720
  crystal structure of, anion—cation distances, 24:39722
  phase studies of mixed binary, 25:19286
  properties of, 25:39610 (BM-IC-8476)
  vaporization studies on, 23:28781(R) (COO-1182-29)
  EuO—rare earth sulfides, ferromagnetic transition temperature of, (E), 22:15629
RARE EARTH TANTALATES
  crystal structure of, x ray diffraction study on, 25:38031
RARE EARTH TELLURIDES
  analysis for tellurium by atomic absorption, 25:216(R) (MLM-1726)
  bibliography of solid-state chemistry of binary, 24:4834
  chemical bonds in, 21:14887
  crystal structure and phases in, differential thermal analysis and x-ray studies of, 25:29981
  crystal structure defects and nonstoichiometry of, 22:24386 (CONF-670502-, pp 112-31)
  crystal structure of, 22:37720
  crystal structure of, 22:24388 (CONF-670502-, pp 145-54)
  properties of, 25:39610 (BM-IC-8476)
RARE EARTH THIOCYANATES
  complexes with TBP, effects of ionic radius and organic diluents on stability of, 23:11485
RARE EARTH TITANATES
  magnetic susceptibility and crystal growth of, (E), 23:1519
  magnetic susceptibility at 1 to 4°K, (E), 23:1520
  preparation of, for control elements, 21:9218(P)
RARE EARTH TUNGSTATES
    see also Sodium Rare Earth Tungstates
  bremsstrahlung emission from promethium-147 incorporating, effects of tungsten oxide content on, 24:31600
  fabrication and properties of, 25:35529
  bronzes see Rare Earth Tungsten Bronze
RARE EARTH TUNGSTEN BRONZE
  effects on electrochemical oxidation of hydrogen, catalytic, 22:33298
  electric properties of, 22:4872
  preparation and properties of, 21:36910
  properties of single-crystal, electric and magnetic, 21:6855 (AD-633669)
RARE EARTH TUNGSTEN OXIDES
    see also Rare Earth Tungstates
  bronzes see Rare Earth Tungsten Bronze
RARE EARTH TUNGSTATES
  preparation of, for control elements, 21:9218(P)
RARE EARTH URANYL ACETATES
  preparation of, 25:46477
RARE EARTH URANYL PROPIONATES
  molecular structure of, spectra studies on, 25:20993
  preparation of, 25:46477
RARE EARTH VANADATES
  preparation by precipitation in specific media under controlled conditions, 24:9458
  preparation using rare earth oxide, lead oxide, and vanadium oxide, 22:49812
RARE EARTH ZIRCONATES
  physical properties of, 24:48896
RARE EARTHS
    see also Actinides
    see also Cerium
    see also Dysprosium
    see also Erbium
    see also Europium
    see also Gadolinium
    see also Holmium
    see also Lanthanum
    see also Lutetium
    see also Neodymium
    see also Praseodymium
    see also Promethium
    see also Samarium
    see also Scandium
    see also Terbium
    see also Thulium
    see also Ytterbium
    see also Yttrium
  abundance in A-pec stars, (E/T), 25:6973
  abundance in Allende meteorite, (E), 24:42310
  abundance in Ap and Am stars, (T), 23:34153
  abundance in Apollo 11 anorthosites, (E), 25:7125
  abundance in Apollo 14 soils 14163 and 14259, (E), 25:52596
  abundance in α^2 CVn, (E), 25:19339
  abundance in chondrites, achondrites, and Apollo 11 fines, (E), 25:13787
  abundance in eucrites, (E), 25:8966
  abundance in HD 1909 and 53 Tauri, (E), 22:47730
  abundance in HD 209621, (E), 24:4882
  abundance in HR 1105, 22:29117
  abundance in late-type stars, 22:23971
  abundance in lunar rock 12013, (E), 25:954
  abundance in lunar rock 12013, (E), 25:955
  abundance in meteoritic matter, (E/T), 25:6922
  abundance in peculiar A stars, (T), 25:47224
  abundance in peculiar A stars, (T), 24:27941
  abundance in pitchblende, uraninite, and samarskite, 21:45267
  abundance in RU Cam, (E), 21:28917
  abundance in spectrum of HD 101065, (E), 22:8886
  abundance in Sun, (E/T), 23:39226
  abundance of 4f, solar, (T), 22:23982
  abundance ratios in basic rock and chondrites, correlation with ionic radii, 21:28090
  abundances at stellar surfaces produced by alpha and proton reactions, anomalous, 21:46121
  abundances in Apollo 12 basalts, (E), 25:13955
  abundances in meteoritic chondrules, (E), 23:16556 (N-68-34058)
  abundances of six F stars, (E), 22:43741
  age of, argon/potassium method for estimation of, 21:14317
  age of, uranium fission fragment method for estimation of, 21:14317
  alpha reactions $(\alpha,3n)$ at 32 to 42 MeV, rotational transition intensities in, (E), 21:1109
  alpha reactions at 42 MeV, gamma angular and energy distributions from, (E), 21:19289
  alpha scattering by, optical-model potential parameters for, (T), 22:14081
  amalgamation in lithium citrate solution, electrolytic, 22:18748
  analysis by neutron activation and γ spectrometry, comparison of detectors for, 24:67
  analysis by neutron activation, chemical separation in, 23:19679
  analysis by photon activation method, 24:31269
  analysis for americium-241 by solvent extraction and alpha counting, 22:25239 (ISO-SA-11)
  analysis for cerium, lanthanum, neodymium, and praseodymium in solutions of, by x-ray spectral fluorescence, 22:27581
  analysis for dysprosium and terbium by fluorometry using 4,4'-methylenebis[3-methyl-1-(2-pyridyl)pyrazol-5-ol, 23:70
  analysis for europium, 22:4054
  analysis for europium and samarium by fluorescent method, 23:7461
  analysis for europium and terbium using filter fluorimeter, luminescent, 23:7448
  analysis for europium and ytterbium by polarography, 22:45017
  analysis for europium and yttrium by flame photometry, 23:21626 (BARC-356)
  analysis for europium, samarium, and ytterbium by oscillopolarography, 22:18719
  analysis for gadolinium by luminescence in gadolinium—sodium sulfate—silicon oxide phosphor, 23:40554
  analysis for hydrogen by carrier gas fusion—gas chromatographic methods, 25:28936
  analysis for individual, by aerosol-spark method, 22:6281
  analysis for microamounts of cerium, fluorometric, 21:27917
  analysis for nitrogen and oxygen traces by carrier gas fusion method, 21:40772 (IS-1600, Paper 3)
  analysis for oxygen by activation using 14-MeV neutrons, methods for, 21:40772 (IS-1600, Paper 3)
  analysis for oxygen by neutron activation, 24:16485 (IS-2100, Sect. C)
  analysis for rare earth oxides, electrode development for spectroscopic, 25:28948
  analysis for scandium and yttrium, precipitation, 21:19735
  analysis for thorium by γ spectrometry, 24:26976
  analysis for trace amounts of cerium, fluorescence method for, 23:11412
  analysis for trace amounts of europium by γ spectrometry, 25:6260 (CEA-N-1341, pp 3-93)
  analysis for trace impurities by atomic absorption spectroscopy, 21:40772 (IS-1600, Paper 3)
  analysis for trace impurities by flame emission spectrometry, 22:25238 (IS-T-223)
  analysis for trace ytterbium by atomic absorption using radiofrequency plasma, 24:4220
  analysis for uranium by extraction spectrophotometry, 25:44321
  analysis for uranium following chromatographic separation, spectrophotometric, 24:16485 (IS-2100, Sect. C)
  analysis for uranyl ions using benzamidoxime, spectrophotometric, 22:27715
  analysis for yttrium by difference spectrophotometry of Arsenazo complexes, 24:26967
  analysis for yttrium by extraction chromatography and emission spectroscopy or neutron activation, 25:57372
  analysis for yttrium by indirect spectrophotometric method, 25:2091
  analysis for yttrium by photon activation techniques, 24:5615

analysis for yttrium, spectroscopic, 25:37265 (BARC-540)
analysis of fission product, for neodymium-147 by γ spectrometry, 23:40573
analysis of fission product, for neodymium-148 by neutron activation after ion exchange chromatographic separation, 25:15552
analysis of mixture of, by flame emission in acetylene—nitrous oxide flame, 23:43256
analysis of mixtures of yttrium and, for terbium, spectrophotometric, 21:12364
analysis of mixtures of, by instrumental activation method, 24:38769 (IS-T-360)
analysis of mixtures of, for europium, gadolinium, lanthanum, neodymium, praseodymium, samarium, and yttrium by high-voltage electrophoresis and spectrophotometry, 24:29201
analysis of mixtures of, polarographic, 24:26982
analysis of, for aluminum and silicon, activation, 21:12296
analysis of, for carbon and oxygen by helium-3 activation methods, 21:14167
analysis of, for carbon and oxygen by helium-3 activation, 21:4437 (UCRL-17071)
analysis of, for europium and ytterbium, polarographic, 21:8201
analysis of, for impurities by ion exchange, 21:14297
analysis of, for yttrium by x-ray fluorescence spectrometry, 21:1293
analysis of, pulse polarographic methods for, 25:6261 (CEA-R-4040)
analysis of, spectrographic, 22:16356 (KR-116)
analysis of, using spark source, mass spectrographic, 21:1305
analysis of, using thymolphthalexon, spectrophotometric, 21:12339
analysis using 20 MeV bremsstrahlung, γ spectra and yields for activation, (E), 21:35467
anisotropy in magnetic fields up to 140 k0e, 21:21052(R) (N-67-13103)
arrangement in revised periodic system, 24:20778
arrangement in revised periodic system, 25:15563(T) (UCRL-Trans-10510)
atomic properties of, theoretical treatment of tetrad effect on, 24:48065 (ORNL-4581, pp 28-61)
atomic structure of, 24:14710
basicities of aqueous solutions of, 25:2319 (ORNL-4572, pp 181-95)
basicity of trivalent, 25:51468 (CONF-711001-(Vol.1), pp 322-9)
beta transition rates in deformed, review of data on fast allowed, (E/T), 22:30038
beta transitions in A = 144, first forbidden, (T), 22:27232
beta transitions in odd-A, calculations using diffuse potential for N-forbidden, (T), 22:14075 (JINR-P4-3650)
beta vibrations in, adiabatic treatment using Davydov model, (T), 22:16081
bibliography on, 24:23424 (IS-RIC-3)
bibliography on Ames Lab. work on, 23:47423 (IS-RIC-2)
bibliography on, including scandium and yttrium, 1958 to 1962, 24:20742(T) (AEC-tr-6981)
binding to blood serum proteins, dialysis study of, 24:36690
book: A Collection of Spectral Lines for Ore and Mineral Analysis on Diffraction Spectrograph, in Russian, 21:34284
book: Accelerated Determinations of Rare Earth Metals in Alloys, in Russian, 25:39406
book: Analytical Chemistry of Rare Earth Elements and Yttrium, in Russian, 22:2015
book: Chemistry of Rare Earths and Various Other Elements, in Russian, 25:10580
book: Complexes of the Rare Earths, 21:25867
book: Europium, 22:27738
book: Fundamentals of Metallurgy: Rare Metals. Vol. 2, 24:12373(T) (AD-695897)
book: Problems in the Study of Rare Earths, 21:4490(T) (AEC-tr-6635)
book: Progress in the Science and Technology of the Rare Earths., Volume 2, 21:10363
book: Rare Earth Elements and Their Position in the Periodic System, 24:38801(T) (AEC-tr-6875)
book: Spectrophotometric Methods for Determining Individual Rare Earth Elements, in Russian, 23:45203
book: The Encyclopedia of the Chemical Elements, 22:45055
book: The Industrial Chemistry of the Lanthanons, Yttrium, Thorium, and Uranium, 21:34287
book: The Rare Earth Elements and Their Place in the Periodic System, in Russian, 21:3077
book: The Rare Earth Industry, 21:32263
carbon content of, effects of method of preparation on, 21:14167
charged-particle elastic scattering at low energies by polarized, partial-wave calculation of quadrupole effect on, (T), 25:50845
chelates with β-diketones, infrared spectra and vibration modes of, 25:52606 (CONF-711001-(Vol.1), pp 64-72)
chemical bond formation by, participation of f-electrons in, 24:13835
chemical properties of aqueous solutions of, spectrophotometric studies on, 25:54578 (ORNL-4682, pp 215-17)
chemical properties of, compared with actinides, 22:2018(R) (BMwF-FBK-67-76)
chemistry of, 22:25351
chemistry of fission product, 24:38815
chemistry of, review of, 22:30514
complexes adsorbed on hydroxides in carbonate solutions, stability of, 25:31944
complexes of trivalent, in chloride solutions, 24:41247(T) (ORNL-tr-2342)
complexes of, differential scanning calorimetry and thermogravimetric analysis of, 25:18297 (ORO-2124-24)
complexes of, enthalpy and entropy of preparation of, 22:30554
complexes of, review on solution luminescence studies on, 24:31317
complexes of, spectra of, 23:21717
complexes of, theory of formation of, 24:36199 (IS-T-381)
complexes of, with thymolphthalexon, sorption properties of, effects of anions on, 21:12339
complexes with 1,1,1,5,5,5-hexafluoro-2,4-pentanedione and TBP, separation of, by gas chromatography, 23:2387
complexes with 1,1,1,5,5,5-hexafluoro-2,4-pentanedione, preparation and properties of, 24:1823 (ORNL-4437, pp 20-39)
complexes with 1,1,1-trifluoro-5,5-dimethyl-2,4-hexanedione, gas chromatographic and thermogravimetric study of, 23:140
complexes with 1,2-cyclohexylenedinitrilotetraacetic acid, reactions between copper(II) ions and, 24:5666
complexes with 1,3-diphenylpropane-1,3-dione-p-sulfonic acid and 1,3-diphenylpropane-1,3-dione-m,m'-disulfonic acid, preparation of, 21:17733
complexes with 2,2,6,6-tetramethyl-3,5-heptanedione, preparation of, 23:26338(P)
complexes with 2,2'-[(1,8-dihydroxy-3,6-disulfo-2,7-naphthylene)bis(azo)]dibenzenearsonic acid, spectrophotometric studies on acid dissociation constants of, 24:43947
complexes with 2,4-pentanedione, stability of, 22:14566 (ORO-2124-12)
complexes with 2,4-pentanedione, structure of, 22:14566 (ORO-2124-12)
complexes with 3-(4-antipyrinylazo)-2,4-pentanedione, 24:11439
complexes with 4-amino-3-penten-2-one, preparation of, 22:14566 (ORO-2124-12)
complexes with 5,7-diiodo-8-quinolinol, formation constants of, 25:26214
complexes with acetates, thermodynamic properties of, 25:2208
complexes with acetic and glycolic acids, stability and thermodynamics of, 21:40772 (IS-1600, Paper 3)
complexes with alkyl substituted malonic acid step formation constants for, 24:41091 (IS-T-359)
complexes with amino acids and proteins, role in radioisotope uptake by animals of, 25:29445
complexes with azo compounds, spectrophotometric studies on, 25:34528
complexes with benzoyl acetone, incorporation in polymers produced by radioinduced polymerization, 24:38956(P)
complexes with β-diketones, volatility of, 22:30560
complexes with β-ketoenols, preparation and properties of, review of, 22:2061
complexes with cupferron, composition and thermal stability of, 25:2078
complexes with dialkylmalonic acid, stability of, 22:47214
complexes with dibenzolylmethane, incorporation in polymers produced by radioinduced polymerization, 24:38956(P)
complexes with diketones, preparation of, 22:14433 (ORNL-4196, pp 66-89)
complexes with DTPA, irradiation of, with high-energy protons to produce neutron-deficient radioisotopes, Szilard-Chalmers effect in, 22:40105 (JINR-P12-3887)
complexes with DTPA, proton reactions at 660 MeV, production of neutron-deficient rare earth isotopes by, 23:40712
complexes with EDTA and HEDTA, kinetic behavior of, 22:14496
complexes with EDTA, HEDTA, NTA, and α-picolinic acid, thermodynamic properties of, 22:21054 (ORO-1797-11, pp 1-113)
complexes with EDTA, stability of, 22:22928 (CONF-670502-, pp 343-54)
complexes with fluorides, thermodynamics of association in, 24:13801 (ORNL-4400, pp 77-92)
complexes with HEDTA, electrochromatography and ion exchange studies on, 22:37870
complexes with hydrazodiacetic acid, stability of, 22:30662
complexes with maleic acid, preparation and thermal behavior of, 25:4075
complexes with mercaptopropionic acid, stability of, 22:21054 (ORO-1797-11, pp 1-113)
complexes with mercaptopropionic acid, thermodynamic properties of, 22:21054 (ORO-1797-11, pp 1-113)
complexes with N-substituted iminodiacetic acids, preparation and stability of, 22:30524
complexes with octamethylpyrophosphoramide, preparation of, 22:30468
complexes with organic compounds, preparation and properties of, 22:23002 (CONF-670502-, pp 392-402)
complexes with organic compounds, tables of thermodynamic stability constants for, 22:58 (UCRL-50200)
complexes with phosphine carbonxylic acids, preparation of, 22:40059
complexes with phthalocyanine, radiolysis of, separation of recoil products from 660-MeV proton, 24:36332
complexes with polyaminocarboxylic acids, enthalpy of formation of, 22:21054 (ORO-1797-11, pp 1-113)
complexes with polyaminocarboxylic acids, stability of, 22:21054 (ORO-1797-11, pp 1-113)
complexes with salicyl aldehyde, incorporation in polymers produced by radioinduced polymerization, 24:38956(P)
complexes with substituted malonate ligands, stability in aqueous and methanol solutions, 25:44260 (IS-T-474)
complexes with transition metals and diketones, preparation of, 22:14386(R) (NYO-906-80)
complexes with TTA, preparation and physicochemical properties of, 25:34502 (INR-1247)
complexes with various compounds, composition, stability, and uses of, 22:14501
complexes, binding energies in, 22:22998 (CONF-670502-, pp 318-28)
complexes, bonding of, participation of f-orbitals in, 21:19595
complexes, electronic and binding properties of, 23:40616 (UCRL-18735, pp 5-80)
complexes, formation, properties, and structure of, in solvent extraction systems, 24:16487(R) (ORO-2124-22)
complexes, molecular structure of, 22:22998 (CONF-670502-, pp 318-28)
complexes, properties of, theory of tetrad effect on chemical and physical, 25:6337
complexes, spectra of, environmental effects on, 22:22998 (CONF-670502-, pp 318-28)
complexes, stability constants of, regularities in, 25:34607
complexes, thermodynamic properties of, 22:22998 (CONF-670502-, pp 318-28)
compounds and complexes of, review of chemistry of, 22:45090
compounds of, analysis for thorium using Arsenazo III, method for, 23:79
compounds of, bibliography of commercial suppliers for, 21:32840 (IS-RIC-1)
compounds of, charge and vacancy ordering in sesquichalcogenide, 25:1319 (CONF-700403-(Vol.1), pp 412-23)
compounds of, enthalpy of formation of, 23:43319
compounds of, for use as stabilizer for zirconia sols, 21:88(P)
compounds of, mixed valence chemistry of, review on, 24:7440
compounds of, preparation and properties of crystalline, 24:31220(R) (YALE-3227-63)
compounds with 2-hydroxy-2-methylbutyric acid and picolinic acid, formation constants of, 22:44951 (IS-T-242)
compounds with carbonates and alkali metals, solubility and thermodynamic properties of, 23:35063
compounds with singlet crystal field ground state, magnetic susceptibility of, 22:24381 (CONF-670502-, pp 48-57)
compounds, chemical structure of, nuclear studies of, 23:21681(R) (ORO-3345-4)
compounds, chemical thermodynamics of, 25:8260(R) (COO-1149-180)
compounds, crystal structure of oxy-, effects of coordination of oxygen atom on, 22:22999 (CONF-670502-, pp 329-40)
compounds, density of aqueous solutions of, 23:213 (IS-1900, Paper 3)
compounds, electric and optical properties of perovskite, (T), 25:45603
compounds, electron microscopic and thermal analysis of, 25:54671 (ORNL-4682, pp 114-32)
compounds, electron paramagnetic resonance of, 24:30408
compounds, heat of dilution of aqueous solutions of, 23:213 (IS-1900, Paper 3)
compounds, melting points, heats of formation, and lattices of, 23:6680
compounds, relative apparent molal heat contents of aqueous solutions of, at 25°C, 24:41092 (IS-T-393)
compounds, thermal and thermochemical properties of, 22:30526
compounds, thermodynamic properties of, review of, 22:30526
conference on lanthanide—actinide chemistry, New York, New York, Sept. 13 and 14, 1966, 22:30561
conference on optical properties of ions in crystals, Baltimore, Maryland, 9/66, 23:36798
conference on properties and structure of, Reno, Nevada, April 19 to 22, 1970, 25:683 (CONF-700403-(Vol.2))
conference on properties and structure of, Reno, Nevada, April 19 to 22, 1970, 25:682 (CONF-700403-(Vol.1))
conference on research on, ninth, Blacksburg, Virginia, 10/71, 25:52940 (CONF-711001-(Vol.2))
conference on research on, ninth, Blacksburg, Virginia, 10/71, 25:52932 (CONF-711001-(Vol.1))
conference on, at Paris and Grenoble, May 5 to 10, 1969, Vol. I, 25:32641
conference on, Coronado, California, Oct. 28 to 30, 1968, Vol. I, 23:8645 (CONF-681020-(Vol.1))
conference on, Coronado, California, October 28 to 30, 1968, Vol II, 23:8661 (CONF-681020-(Vol.2))
conference on, Gatlinburg, Tenn., May 3 to 5, 1967, 22:23707 (CONF-670502)
conference on, Paris and Grenoble, France, 5/69, Vol. II, 25:5193
content and distribution in metamorphic conglomerates of Urals, 24:14056
content and distribution in Sargasso Sea to 4100 meters in depth, 24:19113
content and particle size distribution in bottom sediments of Clinch and Tennessee Rivers, 21:16028 (ORNL-3721(Suppl.2A))
content and vertical distribution in bottom sediments of Clinch River, 21:16029 (ORNL-3721(Suppl.2B))
content in anorthosites and metamorphic rocks in Lofoten-Vesteraalen, Norway, 24:7422
content in Apollo 11 lunar samples, (E), 24:21527
content in Clinch River sediments, 21:22117 (ORNL-4035)
content in coastal and estuarine waters, effects of tides on, 25:34760
content in garnets, 21:21963 (BNL-994, pp 3-19)
content in iron—manganese concretions of Indian and Pacific Ocean, 21:26013
content in rare earth minerals, data summary of, 23:21831
content in soils, effects on neutron moisture measurements, 23:17559

content in thermal waters of Kamchatka Peninsula, (E), 25:10697
content in U.S. Geological Survey standard rocks, (E), 24:48174
content in vesuvianite skarns, 25:51645
content in waste solutions discharged to Clinch River from ORNL, 21:16029 (ORNL-3721(Suppl.2B))
content of marine environment and organisms, measurement of, 22:43311(R) (PRNC-85)
content of trivalent, in waste solutions discharged to Clinch River from ORNL, 21:16028 (ORNL-3721(Suppl.2A))
content of, in pitchblendes and uraninites, 21:14930(R) (ORO-3235-12)
corrosion resistance of nuclear materials containing, 22:31357
cost and production of, review of 1967, 22:31317
Coulomb excitation of nuclei of, imbedded in iron, perturbed angular correlations with hyperfine interactions from, 23:39560
crystal lattice distortions in compounds of, (E), 25:4803
crystal lattice parameters of, effects of impurities on, 25:16398 (IS-2300, pp 101-86)
crystal lattice specific heat of, theory, 22:34760
crystal structure of LnM, intermetallic compounds of, effects of 4f electrons on, 23:6696
crystal structure of metallic, 22:23835
crystal structure of, comparison of layer stacking sequence with rare earth trialuminides, 22:2650
crystal structure of, correlation between axial ratio and atomic number, 23:16494
crystal structure of, effects of 4f electrons on, 23:6696
crystal structure of, effects of pressure on, 22:24379 (CONF-670502-, pp 18-28)
crystal structure sequence of alloyed and compressed, 21:41575 (IS-1600, Paper 5)
Debye temperature at 4.2 and 300°K, 21:41589
decay schemes of deformed odd-A, dissertation review on, (E), 22:39657
decontamination in fuel processing by distillation, 21:21918 (ORNL-4076, pp 1-54)
deposition in aqueous or organic media, electrolytic, 25:37438 (CEA-R-4101)
deposition of hydroxides of, on anion exchange membranes, preparation of β sources by, 21:36279
deposition on polonium microspheres, vacuum vapor methods for, 24:21343 (BNWL-1288)
detection in spectra of BD 61°2565, (E), 25:30063
determination after extraction from chloride solutions using bis(2-ethylhexyl) phosphate by adding Arsenazo III, spectrophotometric, 21:23838
determination as ascorbate, spectrophotometric, 22:2009
determination as impurities in gadolinium and yttrium oxides by x-ray luminescence methods, 25:28961
determination as impurities in uranium, method for spectrographic, 21:23824 (PEL-121(Vol.5), pp 561-8)
determination as impurity in graphite by neutron activation and radiochemical separation, 24:13789
determination as impurity in tungsten filaments by neutron activation followed by ion exchange and γ spectrometry, 23:9322
determination as microimpurity in gallium arsenide by neutron activation methods, 21:45062
determination as mixed-ligand complex, use of gas chromatography in, 25:39410 (IS-T-434)
determination as oxide by fast neutron activation, 22:6282
determination as trace impurities in sodium chloride, spectrographic, 21:35836 (BARC-283)
determination as TTA complex, 25:34502 (INR-1247)
determination by activation methods, review on, 25:10499
determination by amperometric, chelatometric, and conductometric titrations, 25:28970
determination by atomic absorption after separation as hexafluoroacetylacetone complexes by gas chromatography, 24:5598
determination by atomic emission spectroscopy in separated nitrous oxide—acetylene flame, 24:4198
determination by atomic-absorption spectroscopy using induction plasma, 22:1985
determination by cation exchange chromatography, simultaneous, 24:33629
determination by chelometric EDTA titration, 23:37886
determination by complexing with tropolone and its derivatives, 24:4201
determination by complexometric techniques, review of, 21:32128
determination by complexometric titration, 24:15
determination by complexometric titration with TTHA, 24:11432
determination by differences in rates of substitution reactions in complexes with polydentate ligands, 25:57319
determination by diffuse-reflectance spectroscopy, 21:25833
determination by displacement reactions, indirect inverse-voltammetric, 25:11
determination by extraction—photometric method using salicyclic acid and Rhodamine S, 24:9234
determination by flame emission in acetylene—nitrous oxide flame, detection limits for, 23:43256
determination by gamma scattering methods using americium-241 source, 25:41752(P)
determination by isotope dilution mass spectrometry after separation by extraction chromatography and cation exchange, 21:21876
determination by isotope dilution method, substoichiometric, 22:27618
determination by luminescence sensitized by aromatic ketones, 22:16461
determination by neutron activation and gamma spectrometry, 23:7442 (CONF-681020-(Vol.2), pp 667-74)
determination by neutron activation and radiochemical separation, 25:46462
determination by neutron activation methods, 22:4054
determination by neutron activation methods, effects of isotopic fractionation on, 22:45008
determination by neutron activation methods, methods of separation in, 22:4034
determination by neutron activation techniques, 22:47079
determination by neutron activation, selection of optimum activation and cooling times for, 25:39441
determination by paper chromatography, separation processes in, 24:20702
determination by photon activation methods, 22:27591
determination by rotating electrode, effects of coexistent components on spectrographic, 23:13636
determination by rotating platform, silver-spark technique, 23:37
determination by solvent extraction of 5,7-dibromo-8-quinolinol and rhodamine C complexes using benzene, spectrophotometric, 23:47384
determination by spark-source mass spectroscopy, 25:10438 (ORNL-4636, pp 51-3)
determination by spark-source mass spectroscopy, 22:4045
determination by spectrochemical methods, 23:45208
determination by spectrophotometric titration, 22:39976 (ANL-7450, pp 108-11)
determination by spectropolarimetric titration using propylenedinitrilotetraacetic acid, 24:16429
determination by spectroscopy of prompt γ radiation following neutron capture, 25:54451
determination by titration using EDTA and spectrophotometry, 24:36143 (CEA-N-1241, pp 3-83)
determination by titration with [ethylenebis[[(carboxymethyl)imino]ethylenenitrilo]] tetraacetic acid, complexometric, 22:45038
determination by x-ray fluorescence spectrometry, effects of experimental variables on, 24:41178 (JEN-214-DQ/I-76)
determination following separation by solvent extraction, gas chromatographic, 24:16485 (IS-2100, Sect. C)
determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in achondrites by mass spectrometric isotope dilution method, 23:45402
determination in airborne particulates by neutron activation, 25:8231
determination in alkali medium in presence of cetylpyridinium bromide by spectrophotometry using Xylenol Orange, 22:40000
determination in allanite and monazite by zone electrophoresis and photometry using Arsenazo III, 24:2113
determination in alloys containing chromium, iron, and nickel, oscillopolarographic, 25:6419
determination in ammonium lactate solutions using copper or zinc EDTA complexes, polarographic, 21:19576
determination in aqueous acetone solutions of dibenzoylmethane complexes, absorption spectrophotometric, 25:34527
determination in aqueous solution, evaluation of 1-[(bromo-2-pyridyl)azo]-2-naphthol for use in spectrophotometric, 23:24165
determination in ash of plants and soils, activation, 22:22969
determination in basalt by isotope dilution method, 22:42617
determination in basalt by mass spectrography, 23:26162
determination in basic and ultrabasic rocks by neutron activation methods, 22:4064
determination in bauxite, selection of line pairs for spectroscopic, 25:28946
determination in biological materials by automated neutron-activation methods, 22:16450
determination in boric acid—sodium tetraborate glasses, optical excitation method for, 24:26938
determination in Bruderheim chondrite by neutron activation, 21:40789
determination in cadmium fluoride by neutron activation and pre-irradiation separation, 23:19680
determination in calcium fluorides, spectrochemical, 23:7468
determination in carbonatites by isotope dilution and mass spectrometry, 24:25006
determination in chromium-, iron-, and nickel-based alloys, oscillopolarographic, 23:15790
determination in corals by neutron activation methods, 22:44979 (NYO-2174-70)
determination in doped spinel laser crystals by neutron activation and γ spectrometry, 24:171
determination in fast reactor fuels as measure of burnup, x-ray spectrometric, 24:43935 (ANL-7650, pp 35-40)
determination in fast reactor fuels to measure burnup, 22:39976 (ANL-7450, pp 108-11)
determination in fission product mixtures by ion exchange and β counting, 25:54449
determination in fluorspar, spectroscopic, 24:29187
determination in fuel elements as measure of burnup, 21:25935(R) (ANL-7225)
determination in gadolinite and tantalocolumbite minerals by activation methods, separation processes in, 22:33246
determination in gadolinium oxide or yttrium oxide by x-ray-excited optical fluorescence, 23:6059
determination in geological materials by spark-source mass spectrometry, 24:36157
determination in graphite, molybdenum, and tungsten by neutron activation methods, 22:16387 (CEA-R-3267)
determination in hot spring waters in Japan by neutron activation methods, 22:8013
determination in hot spring waters in Japan by neutron activation, 25:26195
determination in human tissues by activation methods, 24:38793
determination in igneous rocks by neutron activation methods using high resolution lithium-drifted germanium detectors, 22:25259
determination in impactite glasses, rocks, and tektites from Bosumtwi Crater area, Ghana, by isotope dilution, 22:18
determination in ionic materials by x-ray-stimulated luminescence, 22:40042
determination in iron and steel, review of methods for, 21:21902
determination in iron and steel, review on methods for, 23:26173
determination in iron oxide—yttrium oxide system, 25:31810
determination in irradiated fast-reactor fuel, 21:36073(R) (ANL-7350)
determination in irradiated fuels by photometric titration and x-ray spectroscopy, 22:50902 (ANL-7425, pp 193-7)
determination in irradiated fuels, method for estimating burnup by, 21:45005 (ANL-7325, pp 201-3)
determination in irradiated fuels, methods for radiochemical, 25:23522 (SRARI-P-81)
determination in lactic acid solutions by electrophoresis, 25:44331
determination in lanthanum or yttrium oxide by cathodoluminescence spectra excited in electron microprobe, 23:7464
determination in lanthanum oxides by x-ray excitation of fluorescence, 24:5597
determination in laser materials, γ-ray-activation, (E), 23:18717 (AD-664325)
determination in liquid sodium by γ spectrometry, 24:175 (ANL-7575, pp 77-129)
determination in lunar fines No. 10084 from Apollo 11 by ion exchange chromatography or high-voltage electrophoresis and neutron activation, 25:54475
determination in matrices by cathode-ray-excited emission spectroscopy, 22:25270
determination in Mesozoic dolerite dikes, 25:54476
determination in meteorites and meteoritic phases by neutron activation and radiochemical separation, 25:54477
determination in minerals after extraction using butyric acid by complexometric, gravimetric, or photometric method, 23:34996
determination in minerals and rocks, evaluation of chemical, chromatographic, and spectrochemical methods for, 24:29194
determination in minerals by activation methods using single comparator technique, 22:33248
determination in minerals, gravimetric, 25:31790 (NIM-998)
determination in mixed oxide fuels, method for, 25:58344(R) (LA-4693)
determination in molten fluoride fuels, spectrographic, 22:14430 (ORNL-4196, pp 55-9)
determination in nonferrous metallurgical materials, review of methods for, 21:21903
determination in nuclear graphite by neutron activation, 23:11445 (CEA-CONF-1057)
determination in ores by spark-source spectrometry, 21:27893(R) (NBL-237)
determination in ores, method for, 21:42904
determination in ores, methods for, 23:40887(R) (NP-17982)
determination in oxides of thorium, uranium, and zirconium, spectrochemical, 24:16
determination in perovskites by gravimetry and spectroscopy, 24:18889
determination in petroleum cracking catalysts by x-ray fluorescence methods, 23:7469
determination in phosphate rocks by atomic-absorption flame photometry, 22:2001
determination in phosphate rocks by titration with EDTA, 22:33216
determination in plant leaves by spark-source mass spectrometry, 23:9305 (ORNL-4343, pp 57-8)
determination in plutonium or plutonium alloys by x-ray fluorescence spectrometry, 23:36
determination in plutonium, spectrographic, 23:24064 (BARC-383)
determination in powdered residues of thermal and surface water by mass and uv absorption spectrometry, 25:54409
determination in presence of Complexon III by complexometric titration, 25:46423
determination in presence of iron and thorium by amperometric chelometry, 22:27569
determination in presence of mercury and alkaline earth elements, chelatotitration method for, 22:4046
determination in presence of thorium and uranium by cation exchange in presence of sulfosalicylate and spectrography, 25:231
determination in PZT ceramics by neutron activation methods, 21:35904
determination in rare earth fluorides by fusion with potassium pyrosulfate and titration, 22:18695 (UCRL-50383)
determination in rare earth—vanadium ores, using Arsenazo I, colorimetric, 21:42905
determination in rare earth-activated phosphors, 22:18703
determination in rock samples by measurement of thermal neutron capture γ rays, 22:42619
determination in rock samples by neutron activation methods after chemical group-separation, 22:25286
determination in rocks and minerals by mass spectrometric isotope dilution, 21:45012 (N-67-23945)
determination in rocks and minerals by mass-spectrometric isotope-dilution technique, 22:4044
determination in rocks and minerals by neutron activation methods, 22:40003
determination in rocks by activation and high-pressure ion exchange, 25:54463
determination in rocks by neutron activation, 25:6288
determination in rocks by neutron activation, 23:24113 (CONF-670649-1)
determination in rocks, chemical methods for, 25:54403

determination in rocks, equipment and method for x-ray fluorescence, 25:2094
determination in seawater by neutron activation methods, 24:13779
determination in silicate materials by isotope dilution methods, separation scheme for, 23:2213
determination in silicate rocks, spectrographic, 23:2249
determination in silicates, 24:31234
determination in solutions by stylometric methods, 22:18716
determination in solutions from processing of irradiated plutonium, 22:37640(T) (ANL-Trans-628, pp 2-50)
determination in solutions of EDTA by activation methods, 22:4049
determination in solutions, x-ray fluorescent spectrometric, 21:40797
determination in spent fuels, use of x-ray spectrometer for, 22:30118 (ANL-7438)
determination in thorium dioxide, spectrographic, 21:35846 (KAPL-M-6702(Rev.))
determination in thorium oxide by isotope-dilution mass spectrography, 22:22930(R) (NBL-242)
determination in titanium by neutron activation and radiochemical separations, 23:31318
determination in tungsten bronzes by activation methods, 21:35844 (IS-T-156)
determination in uranium by chromatographic separation using aluminum oxide and hydrofluoric acid and spectrography, 24:38996 (PRNC-135, pp 440-50)
determination in uranium by emission spectrography, 24:11422 (BARC-441)
determination in uranium by neutron activation and chromatographic separation, 24:36183 (RT/CHI-(70) 13)
determination in uranium or zirconium by optical fluorescence spectroscopy, phosphors for, 25:8207
determination in uranyl nitrate by thin-layer chromatography and spectrophotometry, 24:2112
determination in various materials by x-ray fluorescence spectroscopy after precipitation, 22:25285
determination in water by neutron activation methods, 24:111
determination in water, review on methods for, 23:26176
determination in wood by spark-source mass spectrometry, 23:9305 (ORNL-4343, pp 57-8)
determination in yttrium by ion exchange and neutron activation, 23:17364
determination in yttrium by ion exchange and neutron activation, 25:54525
determination in yttrium oxide by cathodoluminescence method, 22:22978
determination in yttrium oxide by neutron activation, equipment for, 24:57
determination in yttrium oxide by rf spark-source mass spectrography, sensitivity factors for, 25:39418
determination in yttrium oxide by spectrophotoluminescence, 22:8025
determination in yttrium oxide, development of x-ray luminescence spectrometer for, 23:6082
determination in yttrium, use of extraction chromatography for improving sensitivity of, 21:38879
determination of atomic diameters of, in solid solutions, 22:4804
determination of cerium subgroup, in air by precipitation and colorimetry, 22:44991
determination of fission product, by x-ray spectroscopy, 22:39976 (ANL-7450, pp 108-11)
determination of fission product, in fast reactor fuels, 24:50439(R) (ANL-7675)
determination of fission product, in mixed oxide fuels, 24:36951 (ORNL-4520, pp 3-56)
determination of fission-product, in graphite, radiochemical, 21:45023(T) (ORNL-tr-1789)
determination of impurities of, in lanthanum, spectrographic, 21:15835(R) (UCID-15066)
determination of individual, in boride solutions by spark spectroscopy, 24:9238
determination of lanthanum series, in solutions by rotatory magnetic dispersion, polarized-light spectrometric, 23:24074
determination of light, in presence of scandium and thorium using DCTA and TTHA, 21:15851
determination of microgram quantities of, in ores, photometric, 21:1256
determination of mixtures of, using ligand exchange reactions, data reduction system for, 25:28941
determination of total, using sodium tungstate in presence of adsorption indicators, volumetric, 23:40562
determination of trace amounts of, by cathode-ray-excited emission spectroscopy, 23:24069
determination of trace amounts of, electrochromatographic, 22:48824
determination of trace amounts of, evaluation of methods for, 22:18703
determination of trace amounts of, in bauxite by spectroscopy, 24:29190
determination of trace amounts of, in bismuth by chemical preconcentration and emission spectroscopy or flame photometry, 23:9304 (ORNL-4343, pp 53-6)
determination of trace amounts of, in compounds by x-ray fluorescence spectrometry, 24:43957
determination of trace amounts of, in EDTA solution by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 21:45029
determination of trace amounts of, in hot spring water by neutron activation methods, 22:6277
determination of trace amounts of, in minerals and rocks by neutron activation, 24:29231
determination of trace amounts of, in MSRE fuel, method for spectrographic, 24:13739 (ORNL-4466, pp 95-8)
determination of trace amounts of, in plants by neutron activation and radiochemical separation, 24:18914 (CEA-R-3917)
determination of trace amounts of, in rare earth oxides by chemical-spectral and chemical-luminescence methods, 23:49708
determination of trace amounts of, in seawater, review on methods for, 25:28921
determination of trace amounts of, in silicate rocks, spectrographic, 22:22951
determination of trace amounts of, in uranium and thorium by carrier distillation spectrography, 25:28915 (BARC-517)
determination of trace amounts of, in uranium by chemical separation and spectroscopy, 25:4021
determination of trace amounts of, in uranium, other metals, and ores using chlorophosphonazo DAL, 21:32129
determination of trace amounts of, isotope dilution method for, 23:25
determination of traces of, in yttrium oxides, spectrographic, 22:22950
determination of ultratrace amounts of, in gallium arsenide by emission spectroscopy, 23:7470
determination of, bibliography on, 21:42893
determination of, by radiometric titration with 8-quinolinol, 21:8207
determination of, chemical, instrumental, and spectrographic methods for, 25:39610 (BM-IC-8476)
determination of, effects of solution composition on spectrographic, 25:15476
determination of, in aluminum and magnesium alloys, photometric, 21:2981
determination of, in biological materials, chemical separation method for activation, 21:2 (AE-247)
determination of, in calcium fluoride, controlled-atmosphere dc arc for, 21:5821
determination of, in EBR-II fuel elements, method for burnup measurement by, 21:4433 (ANL-7125, pp 241-3)
determination of, in Hawaiian volcanic rocks, methods for, 21:15828 (AD-642344)
determination of, in manganese nodules from fresh and salt waters and rocks, 21:15878(R) (MIT-905-81)
determination of, in meteorites by neutron activation methods, 21:4448
determination of, in mixtures by electrophoresis and gamma spectrometry, 21:4469
determination of, in phosphate rocks using atomic absorption flame photometry, 21:15867
determination of, in phosphate rocks using EDTA, effects of impurities on, 21:15866
determination of, in uranium ore concentrates and uranium compounds, spectrographic, 21:8 (MCW-1498)
determination of, in urine, radiochemical, 21:12277 (CONF-651008-, pp 1-19)
determination of, indicator for use in titrimetric, 23:9329
determination of, polarographic, 24:26982
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, review on various methods for, 25:23501 (MLM-1801)
determination of, solvent extractions in, 25:31811
determination of, spectrophotometric study of 16 reagents for use in, 21:26
determination of, use of ion exchange in methods for, 25:54397
determination of, use of sodium cerium EDTA in EDTA titrimetric, 22:47102
determination of, using ammonium cinnamate, 21:12363
determination of, using murexide, photometric, 21:2986
determination simultaneously with actinides in presence of trace amounts of transuranium elements by spark-source mass spectrometry, 25:23518
determination using 1,10-phenanthroline and tetrabromofluorescein, photometric, 24:43948
determination using 2,2'-[(1,8-dihydroxy-3,6-disulfo-2,7-naphthylene)bis(azo)]dibenzenearsonic acid, spectrophotometric, 24:43947
determination using 4,5-dihydroxy-m-benzenedisulfonic acid, in presence of Eriochrome Cyanine R, titrimetric, 25:18348
determination using 4-(2-pyridylazo)resorcinol, spectrophotometric, 21:19545
determination using Arsenazo III and other azo compounds, review of photometric, 21:19542
determination using azo compounds, spectrophotometric, 25:34528
determination using cetylpyridinium bromide and Xylenol Orange, spectrophotometric, 22:8017
determination using cupferron, developments in, 25:2078
determination using dihydroxychromenols and TTA by extraction-photometry, 24:31236
determination using lead oxalates, polarographic, 21:27915
determination using mixed ligand complexes, 25:10460
determination using octamethylpyrophosphoramide, spectrochemical, 22:30468
determination using sodium orthovanadate, potentiometric, 22:30477
determination using terbium complex with 1,2-dihydroxybenzene-3,5-disulfonic acid as luminescent indicator, microvolumetric, 25:57317
determination using Xylene Orange and Trylon B, photometric, 25:37271
determination using Xylenol Orange in presence of diphenylguanidine, extraction-photometric, 24:38725
deuteron differential elastic scattering cross sections and optical-model parameters at 12 MeV, (E), 23:28310
deuteron reactions (d,p) with, spectra from, (E), 25:53753 (ZFK-172)
diffusion in graphite, thermodynamics of carbide formation in, 21:23859 (EUR-3272.d)
diffusion in thorium at 1185 to 1480°C, 25:16398 (IS-2300, pp 101-86)
diffusion out of gold, platinum, rhenium, and tungsten, 22:29795
diffusion parameters in, effects of atomic number on Zener, 23:8184
distribution between liquid bismuth and lithium bromide and lithium chloride, equilibrium, 24:46308 (ORNL-4548, pp 277-333)
distribution between liquid bismuth and molten fluorides, 24:36362
distribution between liquid bismuth and molten lithium halides, 25:54712 (ORNL-4682, pp 1-38)
distribution between molten beryllium fluoride—lithium fluoride—thorium fluoride salts and liquid bismuth at 525 to 700°C, 24:266 (ORNL-4422, pp 1-47)
distribution between molten fluorides and liquid bismuth, 24:16625 (ORNL-4449, pp 214-47)
distribution coefficients on Dowex chelating resin A-1, 23:2410
distribution in Gulf of Mexico, 24:13779
distribution in sediment type rocks, 22:40003
distribution of cerium group, between nitric acid and TBP, 25:21086
distribution of meteoritic, solar, and terrestrial, 21:30538
distribution of trace amounts of, in sphene, 23:13886
effectiveness in processes for separation of niobium from impurities, 23:18235
effects as impurity on superconducting transition temperature of lanthanum dialuminide, s—f exchange coupling, (T), 25:11836
effects of other, on determination of europium, neodymium, and yttrium using flame photometry, 21:15867
effects of trivalent chlorides of, on thermal properties of sodium chloride, 21:42956
effects of, followed by ignition to oxide on determination of zirconium, 21:4445
effects of, on photometric determination of scandium by 5-chloro-3-[(2,4-dihydroxyphenyl)azo]-2-hydroxybenzenesulfonic acid, 21:15843
effects of, on radioinduced uv spectra of barium, calcium, or strontium fluoride crystals, 21:8331
effects on activation determination of carbon or oxygen, 22:27591
effects on automatic colorimetric determination of thorium in aqueous and organic solutions, 25:4014 (NLCO-1072)
effects on constitution and distribution of surface oxide films formed on niobium-stabilized chromium—nickel steel by carbon dioxide at 750 and 850°C, 22:34123
effects on corrosion of austenitic stainless steels, aqueous, 21:40713(P)
effects on corrosion resistance and electric properties of nonferrous alloys, 25:679
effects on crystallization of carbon steel, 22:7003
effects on determination of iron and thorium by chelometric EDTA titration, 23:37886
effects on epithermal neutron activation determination of samarium in rocks, 24:2154
effects on high temperature tensile properties of copper and copper alloys, 25:16455
effects on magnetoresistance of noble metals, (T), 22:20063
effects on mechanical properties of zirconium as interstitial additions, 23:32021 (AECL-3227)
effects on neutron cross section and properties of stainless steel, 21:26778(P)
effects on photochemical precipitation of cerium, 25:4026
effects on photometric determination of hafnium and zirconium in geological specimens, 25:2084
effects on photometric determination of indium, 22:2007
effects on photometric determination of thorium, 22:22946
effects on piezoelectric properties of PZT ceramics, 21:35904
effects on properties of stainless steels, 21:20469
effects on properties of steels, review for 1960 to 1969 on, 24:46713 (IS-RIC-4)
effects on reactor core life of thorium dioxide, 23:7444 (KAPL-3322)
effects on spectrophotometric determination of americium, 23:45189
effects on spectrophotometric determination of thorium, 21:23838
effects on spectrophotometric determination of uranium in perchloric acid using Arsenazo III, 23:15802
effects on spectrophotometric determination of zirconium, 24:38721
elastic properties at 4.2 and 300°K, 21:41589
elastic properties of, effects of electronic structure on, 24:25675 (ANL-7417, pp 69-70)
electric conductivity of single crystals of heavy, Fermi-surface effects in total-spin-disorder, (T), 25:17324
electric conductivity properties of compounds of, review, 23:1552
electric properties and electronic structure of liquid, 24:42110
electrochemical characteristics of, in phosphoric acid, 21:23902
electron beam production by field emission from ferromagnetic compounds of, calculations on, (T), 23:1172
electron binding energies of outer levels of, determination from photoelectron spectra, 24:21550 (UUIP-626)
electron binding energies of, from x-ray photoelectron spectra, 25:52615
electron Coulomb exchange interaction in, (T), 22:9450
electron exchange integrals in, (T), 21:15223
electron exchange interactions in, exact calculation from free-electron model, 21:44173
electron exchange interactions in, spin Hamiltonian for f- and conductivity, 21:9311
electron interactions in spin-ordered metallic, calculation of effective, (T), 22:15610
electron interactions in, (T), 22:17743
energy differences between f/sup q/d^{1}s^2 and f/sup q+1/s^2 electron configurations of atomic vapors of, (T) 25:49720

energy level calculations for, effects of magnetic interactions on, 23:8687
energy level difference between f/sup q/d^{1}s^2 and f/sup q + 1/s^2 configurations of gaseous, (T), 25:52605 (CONF-711001-(Vol.1), pp 35-51)
energy levels in deformed, octupole, (T), 25:7859
energy levels of deformed, calculations using potential with diffuse edge, 21:40424 (JINR-P4-3451)
energy levels of deformed, description using spin-quadrupole interactions, (T), 21:17346 (JINR-E4-3134)
energy levels of Z = 65 to 71, lifetimes and spin—parity assignments for, (T), 25:31308 (KFK-1248)
energy levels of, calculation using hexadecapole deformation and rotation-particle coupling, (T), 25:12674
energy levels of, calculations using surface delta interaction for vibrational, (T), 21:13933
energy levels of, formulas for electrostatic and spin—orbit interactions for four-particle systems in, 25:24874
energy levels of, lifetimes and spin—parity assignments for, (E), 25:53753 (ZFK-172)
energy levels of, splitting of 4d sublevels, 25:52614
energy of electronic configurations of atoms of, calculation from spectroscopic and thermodynamic data, 25:49721
energy-level transition probabilities for even-A, reduced E1, (T), 21:30016
energy-level transitions from (d,p) reactions, hindrance factors, internal conversion coefficients, and multipolarities for, (E), 25:53753 (ZFK-172)
energy-level transitions in deformed, probabilities for E3, (T), 25:7859
energy-level transitions in even-even, from deuteron inelastic scattering, (E), 21:4310
energy-level transitions in Z = 65 to 71, hindrance factors and multipolarities for, (T), 25:31308 (KFK-1248)
energy-level transitions in, L-subshell intensity ratios of M1, (E), 21:17318(R) (AECL-2659)
energy-level transitions in, probabilities for E0, (T), 25:53810 (COO-1120-123)
enthalpy of solution of tantalum and tungsten in, 23:38977
entropies of, 22:4147
entropy of trivalent, in aqueous solutions, 24:26631(R) (COO-1716-8)
equation of state measurements for, 21:34206 (UCRL-70247)
equations of state for, 21:12027(R) (UCRL-50001-66-2)
evaporation of, performance of electron beam gun for flash, 22:47265 (GEPP-40)
exchange interactions of, review, 25:5232
fabrication of high-purity, 22:23727 (CONF-670502-, pp 653-64c)
Fermi surface of, 22:24395 (CONF-670502-, pp 482-6)
Fermi surfaces of, review, 25:30681
ferromagnetism in, modification of Ruderman—Kittel—Kasuya—Yoshida exchange mechanism for pressure dependence of, 25:14487
fluorescent properties of trivalent, in cerium oxides and thorium oxides, 21:8278
fractionation in meteorites, theory on, 24:25028
Hall coefficient calculations for, ordinary, (T), 23:8675
Hall effect in single crystals of, 23:8660 (CONF-681020-(Vol.1), pp 359-70)
Hall resistivity of, theory of anomalous, 25:56357
heat treatment of nuclear materials containing, 22:31357
hydrolysis constants for, first, 24:36203 (NP-18284)
hydrolysis in chloride solutions, 24:41247(T) (ORNL-tr-2342)
hyperfine interactions in, calorimetric study of, 22:11531
ion reactions with neutron emission, spin distributions in, (T), 21:15624
ionization of, use of iridium surface ionization ion sources for, 21:37867
ionization potentials of, 22:14431 (ORNL-4196, pp 59-62)
lattices of ionic compounds of, computing electrostatic energy of complex and defect, 23:39567
luminescent properties of, in yttrium oxide, cathode-, (E), 23:10704
magnetic dipole moments of light, comparison of theoretical and experimental, 25:40835
magnetic helical structure in, temperature dependence of pitch of, 23:51791
magnetic hyperfine fields at nuclei of, 22:24025 (CONF-670502-, pp 495-505)
magnetic interactions between pairs of, EPR method for determination of, 22:24434
magnetic ordering in heavy, microscopic theory, 23:27702
magnetic ordering in, effects of electron interactions in lattice on, (T), 21:20736
magnetic ordering in, relation to electronic properties, (T), 22:17741
magnetic ordering of, (E/T), 25:5205
magnetic ordering temperatures of, effects of pressure on, 22:24379 (CONF-670502-, pp 18-28)
magnetic properties and structure of, lectures on, 23:32579 (KR-132)
magnetic properties of compounds of, (E), 22:22225
magnetic properties of heavy, neutron scattering study, 22:46215
magnetic properties of light, review, 25:47641
magnetic properties of mixed garnets containing, (E), 21:31494
magnetic properties of pure, review of phenomenological basis of, 25:52933 (CONF-711001-(Vol.1), pp 200-7)
magnetic properties of, correlation with crystal parameters, 21:20516
magnetic properties of, effects of pressure on, 22:24378 (CONF-670502-, pp 10-17)
magnetic properties of, review of, 25:1331
magnetic properties of, simple theory of, 25:33442
magnetic properties, pressure effects on, 23:36800
magnetic structures and form factors of, neutron diffraction studies on, 23:44547
magnetic structures of, review, 23:18727
magnetic susceptibilities of heavy, calculations of generalized, 23:5482
magnetic susceptibility and solvent Knight shift measurements on, in liquid aluminum, 23:10203
magnetic susceptibility of hexagonal crystals of, 24:44723(R) (NYO-3454-33)
magnetic susceptibility of single crystals of, anisotropy of, 24:35557
magnetization at 1.8 to 300°K, (E), 23:8647 (CONF-681020-(Vol.1), pp 30-48)
magnetocrystalline anisotropy in, 23:42472 (AD-682320)
magnon properties of, review of neutron scattering studies of, 24:10628
matrix elements of electron spin—spin interaction in atoms and ions of, Hartree—Fock calculation of,, 25:49762
metabolism following inhalation by dogs and rats, 25:44253(R) (COO-1630-26)
metabolism in animals and man, 22:38255(R) (EUR-3918)
metabolism in dogs, rats, and other animals, tracer studies on, 24:36713(T) (ANL-Trans-832)
metabolism in rats following inhalation, 23:29313(R) (COO-1630-11)
metabolism in rats, effects of EDTA on, 25:6615(T) (AEC-tr-7169, pp 180-98)
metallurgical properties and potentialities of, review, 21:9180
metallurgical properties of nuclear materials containing, 22:31357
metallurgy of, review of problems and progress in, 22:23708 (CONF-670502-, pp 403-4)
microstructure of high-purity, 25:16398 (IS-2300, pp 101-86)
Moessbauer effect following nuclear Coulomb excitation, (E), 22:5875
Moessbauer effect studies of, 22:18735
Moessbauer effect using gamma radiation from Coulomb excitation, 21:1063
Moessbauer spectra following Coulomb excitation, (E), 21:35479
Moessbauer spectra of, 23:21717
Moessbauer spectroscopic research on, survey, 25:52971 (CONF-711001-(Vol.1), pp 144-51)
neutron absorption by, effect on density measurements, 21:185
neutron capture cross sections for reactor neutrons, (E), 21:4317
neutron energy distributions from heavy, effects of crystalline field on, (T), 22:20497(R) (AECL-3009)
neutron inelastic scattering on, crystal field effects on, 22:41661
neutron reactions (n,α) with, survey on thermal, (E), 22:48521 (JAERI-1158, pp 123-4)
neutron resonance densities in, effects of nuclear deformation on, (T), 22:42015 (JINR-P4-3925)
neutron resonances in A = 155 to 176, systematic properties of, (E/T), 21:30012
neutron scattering at 0.001 to 0.12 eV, cross sections for paramagnetic, (T), 22:22537
neutron scattering by paramagnetic, (E/T), 22:11944(R) (AECL-2780)
neutron scattering by trivalent, in octahedral crystal fields, (E), 22:32423 (CONF-670969-1)
nuclear charge radii of odd-even, effects of single particle excitations on, 23:28344
nuclear deformabilities of, (T), 22:30081
nuclear deformation in, Y$_{40}$, (T), 22:48584 (JAERI-1158, pp 120-2)
nuclear deformation of, calculations of parameters for gamma-vibrational, (T), 25:50817
nuclear deformation parameters from α inelastic scattering, (E), 22:27205
nuclear deformations in pairing + quadrupole model, (T), 22:20692
nuclear deformations in, hexadecapole, (T), 22:20607
nuclear deformations of, calculations using projected wave functions, (T), 21:10102
nuclear deformations of, measurement using α inelastic scattering, (E), 22:3700 (UCRL-17547(Exp.))
nuclear equilibrium deformation in, centrifugal stretching effect on, (T), 22:48581 (JAERI-1158, pp 113-14)
nuclear level density parameters for deformed, from neutron inelastic scattering, (E), 22:27104
nuclear magnetic moments of, calculation using Tamm—Dancoff method, (T), 22:46817 (JINR-P4-3934)
nuclear masses and deformations of, (T), 22:30089
nuclear masses and quadrupole moments for Z = 40 to 60, Strutinsky shell-correction calculations of, (T), 25:28318 (CERN-70-30(Vol.2), pp 847-82)
nuclear moments of inertia for, calculation using superfluid model, (T), 21:15629
nuclear moments of inertia, (T), 21:2813
nuclear properties of odd-even, calculations using Nilsson model, (T), 21:7832
nuclear radii of, effects of higher-order deformations on, (T), 25:53810 (COO-1120-123)
nuclear resonance spectra of compounds of, pseudoquadrupole shift and asymmetric line broadening of recoilless, (E/T), 23:23273
nuclear shape in ground-state rotational band, Y$_{40}$ and Y$_{60}$ components of, (E), 22:14007
nuclear shapes of, research using alpha elastic and inelastic scattering, (E/T), 22:22593
nuclear specific heats in, (E), 22:9104
nuclear spin and Nilsson-model level assignments for, atomic-beam measurements of, (E/T), 25:28298 (CERN-70-30(Vol.1), pp 387-94)
nuclear spin relaxation in heavy, estimate of low-temperature indirect, (T), 22:15626
occurrence at Port Pirie, Australia, 23:11668
optical properties of thin films of, system for studying, 24:19278
optical transitions in crystals, review, 22:44235
oxidation characteristics of, effects of moisture on, 21:24740
oxidation states of, energy level diagram for, 22:22995 (CONF-670502-, pp 259-70)
oxidation states of, stability of, 23:35103
oxy salts of, coordination of oxygen atom in, 21:40772 (IS-1600, Paper 3)
oxygen content of, effects of method of preparation on, 21:14167
paramagnetic anisotropy of single crystals of, (T), 25:5206
periodicity of, 24:31339
phase diagram of, effects of pressure and temperature on, 24:25736
phase stability and stacking faults of cerium alloyed with, (E), 21:24788
phase studies, 22:23835
phase transitions in, effects of electron interactions in lattice on, (T), 21:20736
phases of close-packed-hexagonal and cubic-intermediate solid solutions of, 22:4804
photoabsorption cross sections of deformed even—even, (T), 22:53176
photon absorption by, probabilities for collective E2 and E3 transitions in, (T), 21:30003
physical properties of nuclear materials containing, 22:31357
physical properties of, review of, 25:659
physical properties, theory of anomalies of, 22:17790
polarographic behavior in fused nitrates and chlorides of alkaline metals, 23:6105
polarographic behavior in methyl sulfoxide and dimethylformamide, oscillographic, 22:40080
polarographic behavior of, 25:6261 (CEA-R-4040)
polarographic behavior of, effects of nature of electrolyte on, 25:23512
positron annihilation in single crystals of, photon angular distributions from, 22:24024 (CONF-670502-, pp 487-94)
positron annihilation rates in, calculations, 25:50016
praseodymium-141 nuclear magnetic resonance in paramagnetic states of intermetallic compounds of, 21:37550
preparation and properties of ultrapure, 25:32659
preparation by direct electrolysis of oxides in fluoride melts, 22:23728 (CONF-670502-, pp 714-27)
preparation by liquid metal-fused salt process, 23:975
preparation by reduction of oxides, 25:32660
preparation of cyclotron targets of, by electrolytic means, 22:7590
preparation of high-purity, by electrodeposition and vacuum distillation, 23:8128 (CONF-681020-(Vol.2), pp 485-98)
preparation of high-purity, methods for, 25:16398 (IS-2300, pp 101-86)
preparation of high-purity, methods for, 23:962 (IS-1900, Paper 5)
preparation of low-cerium-content light, by oxide electrowinning, 21:26764 (BM-RI-6957)
preparation of monocrystalline, by arc-zone melting, 25:16398 (IS-2300, pp 101-86)
preparation of thin targets of, by centrifuging powder suspended in liquid paraffin, 25:2655
preparation using countercurrent electrophoresis, 25:54742
preparation, properties, and handling of pure, review of, 25:35297
production and occurrence in South Africa, 21:36779 (PEL-74)
production and uses of, review on, 25:29809
production by carbon-12 reactions with uranium, 24:44034
production by fused salt electrolysis, 22:21677
production by fused-salt electrolysis, commercial, 22:23729 (CONF-670502-, pp 728-39)
production in India, methods for, 25:44430
production of, 22:23726 (CONF-670502-, pp 1-6)
production of heavy, by bombardment of uranium with multi-GeV protons, 23:21330(R) (COO-1167-6)
production of, bibliography of commercial suppliers for, 21:32840 (IS-RIC-1)
production of, chemical aspects of industrial, 22:23727 (CONF-670502-, pp 653-64c)
production of, methods for, 24:296
production of, ore cracking by direct chlorination for, 22:23091 (CONF-670502-, pp 702-13)
production of, review of methods for, 24:14710
production, sources, and uses of, review on, 24:21353
production, sources, and uses of, review on, 25:26343
properties and uses of, review of, 22:15182 (IS-1757)
properties and uses, review on, 23:17423
properties as precipitating cation for removal of simple and condensed phosphates from solution, 25:5 (CONF-700403-(Vol.2), pp 774-87)
properties for use as reactor material, 21:36779 (PEL-74)
properties of, 25:39610 (BM-IC-8476)
properties of, 22:705
properties of 4f and 5f series of, chemical and physical, 21:3037
properties of chelated, in blood and tissue, 23:24642
properties of thin films of, effects of aging on electric and optical, 22:14550
properties of, effects of atomic number on, 25:15565 (INR-1212)
properties of, energy hand calculations of electric and magnetic, 22:24395 (CONF-670502-, pp 482-6)
properties of, for use as phosphors, 22:40413
properties of, radiochemical studies on, 25:51424 (CONF-711001-(Vol.1), pp 343-58)
properties of, review of chemical, electric, magnetic, mechanical, and physical, 24:14710
properties of, ultrasonic study of, 25:49823 (AD-722453)
proton reactions at 730 MeV with, abundance of xenon isotope production from, (E), 24:44836

purification by distillation, 23:7549 (CONF-681020-(Vol.2), pp 459-71)
purification by distillation, 23:7592 (CONF-681020-(Vol.2), pp 439-58)
purification by vacuum distillation, 23:17539
purification of trace amounts of, produced in underground thermonuclear explosions, 21:39008
purification of, by ion exchange, 21:14297
purification of, by ion exchange using EDTA, HEDTA, and DTPA, 21:10412 (BNWL-318)
quantum number and regularities in f-electron, parallelism between, 25:29091
radiation absorption calculations for, used as phosphors, gamma- and x-ray, 22:40413
radiation effects on optical and electric properties of thin films of, x, 22:14550
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
radioinduced formation of divalent, as dilute solutes in alkaline earth halides, 22:30622
Raman scattering by magnons in heavy, theory, 24:37558
reaction with anthranilate, activation parameters for, 23:24171
reactions of divalent, kinetics and mechanisms for, 24:41093 (IS-T-394)
reactions of, review of mechanisms of redox, 24:7439
reactions with anthranilate, effects of deuterium on, 23:24171
reactions with anthranilic acid, deuterium isotope effects on kinetics of complexation, 23:2266
reactions with other metals, 24:14736
reactions with rhenium, 23:30068
reduction by alkali metal amalgams, 22:50983
removal from animals and man, 22:38194(R) (EUR-3917)
removal from gastrointestinal tract of personnel in contaminated areas, methods for, 22:38298
removal from wounds, use of chelating agents for, 23:24642
removal of fission product, from molten-salt fuels, 21:23612(R) (ORNL-4037)
research at Ames Laboratory, July 1967 to June 1968, 23:1580 (IS-1900, Paper 6)
reserves of low grade, in Idaho porphyry belt, 23:6230
retention in rats, effects of EDTA on, 22:8479
retention of aerosols of liquid, in alveolar lipoprotein of monkeys and rats, biochemistry of, 25:18889 (CEA-CONF-1676)
sea water sampling for, bathometer for, 21:8480(T) (AEC-tr-6641, pp 172-6)
separation and purification by anion exchange using nitric acid—methanol system, 25:4139
separation as chelates of 2,2,6,6-tetramethyl-3,5-heptanedione by fractional sublimation, 23:26338(P)
separation as complex carbonate in bicarbonate and carbonate solutions, 23:35063
separation as EDTA complexes by ion exchange, effects of resin crosslinking on, 24:44076
separation as pivaloyl trifluoroacetonate from cobalt and thorium pivaloyl trifluoroacetonates by gas chromatography, 25:15752
separation as trifluoroacetylacetone chelate, thin-layer chromatographic, 25:32047
separation by carburization and extraction using sodium amalgam, 23:28976
separation by chromatography, 21:30345(R) (IN-1063)
separation by chromatography on ion exchangers using buffer elution, 24:16628
separation by chromatography using DEHPA, 23:40808
separation by chromatography using EDTA as eluent, efficiency of DTPA and HEDTA as retaining agents in, 24:281
separation by chromatography using EDTA, effects of retaining ions on, 23:19838
separation by chromatography using EDTA, effects of retaining ions on, 25:15731(T) (UCRL-Trans-10513)
separation by chromatography using paper treated with dialkyl orthophosphates, 22:42630
separation by continuous electrochromatography, 25:6402 (UCRL-19530, pp 315-28)
separation by countercurrent extraction using phenanthroline and thenoyltrifluoroacetone, 23:9530
separation by differences in solubilities of carbonates, 24:22753(P)
separation by displacement chromatography, 25:54723
separation by displacement chromatography using EDTA complexes, 25:31766
separation by displacement development, equilibrium theory for, 24:11684
separation by displacement elution from ion exchange resins, 24:270 (ORNL-4422, pp 252-71)
separation by distillation, 23:7592 (CONF-681020-(Vol.2), pp 439-58)
separation by electrolysis using porous carbon electrodes, 23:7593 (CONF-681020-(Vol.2), pp 751-7)
separation by electrophoresis, 22:16671
separation by electrophoresis in Complexon III on cellulose or silica gel, 25:57299
separation by electrophoretic focusing, 21:34321(T) (ORNL-tr-1717)
separation by electrophoretic ion focusing, 21:43028
separation by elution chromatography using bis(2-ethylhexyl) orthophosphate, 24:48157
separation by elution chromatography using glycine, 24:31461
separation by extraction chromatography using bis(2-ethylhexyl) ester of phosphoric acid, 23:7612
separation by extraction chromatography using bis(2-ethylhexyl) ester of phosphoric acid and silica gel, 23:35254(T) (ANL-Trans-756)
separation by extractive ion exchange, 21:36097
separation by foam fractionation, 24:27191 (UCRL-19525)
separation by foam fractionation, 25:6402 (UCRL-19530, pp 315-28)
separation by fractional distillation of volatile complexes with 2,2,6,6-tetramethyl-3,5-heptanedione, 25:26336(P)
separation by fractional precipitation of basic nitrates of, effects of pH on, 22:18720
separation by fractional precipitation using potassium sulfate, 23:26340
separation by gas chromatography as their chlorides, 24:2295
separation by high-pressure ion exchange chromatography, high-speed, 25:44416 (UCRL-73190)
separation by high-pressure liquid chromatography using α-hydroxyisobutryic acid as eluant, 25:57526 (UCRL-73190(Rev.1))
separation by high-voltage electrophoresis, conditions for, 24:39013
separation by ion exchange, 23:7590 (CONF-681020-(Vol.1), pp 397-412)
separation by ion exchange, 21:17733
separation by ion exchange, 22:6277
separation by ion exchange and liquid—liquid extraction, 24:296
separation by ion exchange chromatography, 25:21102
separation by ion exchange chromatography, 21:1079(R) (PPAD-593-E)
separation by ion exchange chromatography using EDTA, 24:19076
separation by ion exchange chromatography using EDTA, 24:14017
separation by ion exchange chromatography using HEDTA, 22:33500
separation by ion exchange chromatography, effects of temperature and resin crosslinking on, 24:19046 (INR-1115)
separation by ion exchange chromatography, effects of electrolytes on, 24:39011
separation by ion exchange on KU-2 cationite, effects of diethylenetriaminepentaacetate on, 21:40974
separation by ion exchange using (1-hydroxyethylidene) diphosphonic acid as eluant, 24:44080(P)
separation by ion exchange using (ethylenedinitrilo) tetraacetic acid, effects of lactic acid on, 21:25941
separation by ion exchange using acetate—citrate solution as eluting agent, 23:7622
separation by ion exchange using α-hydroxyisobutyric acid as eluant, effects of pH on, 22:25474
separation by ion exchange using α-hydroxyisobutyric acid, 21:39015
separation by ion exchange using Dowex 1-X8, distribution coefficients for, 21:17713
separation by ion exchange using EDTA eluent, effects of type of resin on mechanism of, 23:45386
separation by ion exchange using EDTA in acid media, 22:42846
separation by ion exchange using HEDTA, 22:37870
separation by ion exchange using HEDTA, 24:14014
separation by ion exchange using lactic acid and 2-methyllactic acid salts, review on, 22:40193
separation by ion exchange using titanium hexacyanoferrate(II), 21:30518
separation by ion exchange, commercial, 22:23089 (CONF-670502-, pp 678-90)
separation by ion exchange, effects of complexing with dialkyl-substituted malonic acid on, 22:47214
separation by ion exchange, effects of polyaminopolycarboxylic acids on, 22:23022
separation by ion exchange, effects of resin grain size on, 22:40202
separation by ion exchange, effects on ion-exchange resin grain size on, 23:17521(T) (UCRL-Trans-10324)
separation by ion exchange, efficiency of amino acids as retaining agents in, 23:19815 (BM-RI-7175)
separation by ion-exchange chromatography, 22:18864 (NP-17286)
separation by ion-exchange chromatography, 22:18888
separation by ion-exchange chromatography, 22:8170 (INR-P-840/VIII/C)
separation by ion-exchange using Aminex, 23:38033
separation by liquid—liquid extraction, review of, 22:42825
separation by liquid-liquid extraction, tetrad effects in, 24:14013
separation by multiplicative partition, 22:8174(T) (AEC-tr-6922)
separation by paper chromatography, 24:20703
separation by paper chromatography using potassium chloride-impregnated filter paper, 23:49899
separation by precipitation as EDTA complex and decomplexation, 24:33768
separation by precipitation during electromigration, 24:39005
separation by precipitation in specific media under controlled conditions, 24:9458
separation by precipitation using cinnamic acid, 21:19735
separation by pressurized ion exchange, 25:54718 (ORNL-4682, pp 168-81)
separation by reversed-phase partition chromatography, 23:21330(R) (COO-1167-6)
separation by reversed-phase thin-layer chromatography using bis(2-ethylhexyl) ester of phosphoric acid, 23:6216
separation by reversed-phase thin-layer chromatography, 25:29187
separation by solvent extraction, 25:23701
separation by solvent extraction in quaternary ammonium compound-chelating agent system, 23:7591 (CONF-681020-(Vol.1), pp 413-23)
separation by solvent extraction using 2-ethylhexyl ester of phenylphosphonic acid, effects of temperature on, 22:2183
separation by solvent extraction using 2-thenoylfluoracetone, 21:39009
separation by solvent extraction using 3,6-bis[(4-chloro-2-phosphonophenyl)azo]-4,5-dihydroxy-2,7-naphthalenedisulfonic acid, 22:6396
separation by solvent extraction using alkyl phosphates and other organophosphorus compounds, 25:206 (CONF-700403-(Vol.2), pp 802-13)
separation by solvent extraction using amines, 24:46319
separation by solvent extraction using bis(2-ethylhexyl) phosphate, 24:16623 (IS-2100, Sect. CE)
separation by solvent extraction using bis(2-ethylhexyl) phosphate, 25:2311 (IS-T-412)
separation by solvent extraction using bis(2-ethylhexyl) phosphate, 21:40957 (IS-1600, Paper 2)
separation by solvent extraction using bis(2-ethylhexyl) phosphate, 21:45205 (ORNL-4145, pp 208-33)
separation by solvent extraction using bis(2-ethylhexyl) ester of phosphoric acid, 23:345 (IS-1900, Paper 2)
separation by solvent extraction using bis(2-ethylhexyl) phosphate, ir and Raman spectra of organic equilibrium phases in, 25:2193 (CONF-700403-8)
separation by solvent extraction using fluorinated β-diketones and gas chromatography, 25:15562 (IS-2300, pp 21-89)
separation by solvent extraction using mixtures of thenoyltrifluoroacetone and TBP, 22:51049
separation by solvent extraction using naphthenic acids, 22:27868
separation by solvent extraction using TBP containing neutral salting-out agents, 23:7614
separation by solvent extraction, evaluation of parameters in, 24:29371
separation by solvent extraction, kinetics of tetrad effect in, 23:35284
separation by solvent extraction, review on, 24:4355
separation by solvent extraction, review on, 25:18510
separation by sorption on thorium oxalate in presence of Complexone III, 25:6419
separation by thin-layer chromatography on DEAE ion exchanger in methanol—nitric acid solution, 25:250
separation by thin-layer chromatography using bis(2-ethylhexyl) ester of orthophosphoric acid, 21:32240
separation by vacuum distillation using electron-beam furnace, 23:17539
separation factors for adjacent, between aqueous and resin phases in presence of EDTA, 23:49916
separation from acidic aqueous solutions by solvent extraction using quaternary ammonium compounds and thiocyanate, 22:10354(P)
separation from acidic chloride solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 22:6367 (IS-T-188)
separation from actinides by high-voltage electrophoresis, 23:40806(T) (ORNL-tr-1927)
separation from actinides by ion exchange chromatography using zirconium phosphate, 22:10335
separation from actinides by solvent extraction, 24:20846 (CEA-R-3744)
separation from actinides by solvent extraction using bis(2-ethylhexyl) ester of phosphoric acid, 23:383
separation from actinides by solvent extraction using tridodecylamine, 22:25455 (CEA-N-616, pp 295-368)
separation from actinides by solvent extraction using quaternary ammonium compounds and thiocyanate, 22:10354(P)
separation from actinides in nitric acid using TBP or tridodecylamine, effects of complexants on, 22:27848 (CEA-N-816, pp 359-414)
separation from actinides, evaluation of methods for, 23:31399 (CONF-681032-, pp 131-49)
separation from actinides, high-pressure ion exchange column for chromatographic, 21:28054 (ORNL-TM-1876)
separation from actinides, review on, 22:33535
separation from alkaline earth elements in mixed solvents, effects of lactic acid on anion-exchange, 22:18882
separation from alkaline earth metals by chelating ion exchange and partition chromatography, 21:43018 (IS-T-174)
separation from alkaline earth metals by ion exchange using cellulose phosphate, 22:37845
separation from alkaline earth metals, chromium, nickel, and strontium by ion exchange on cellulose phosphate, 21:40772 (IS-1600, Paper 3)
separation from alkaline earths by chelating ion exchange, 22:33289
separation from alloys, minerals, and ores by anion exchange, 24:20702
separation from aluminum by column chromatography on microcrystalline cellulose, 23:28993
separation from aluminum, iron, and titanium by chromatography, 25:37294
separation from americium by solvent extraction, 22:37640(T) (ANL-Trans-628, pp 2-50)
separation from americium by solvent extraction using bis(2-ethylhexyl) ester of phosphoric acid, 22:25239 (ISO-SA-11)
separation from aminecarboxylic acids using iron, complexing method for, 24:48033
separation from aqueous chloride solutions by solvent extraction using bis(1-isobutyl-3-methylbutyl) phosphate, 25:34706
separation from aqueous organic acid solutions by solvent extraction using primary amines, 25:220 (NP-18479)
separation from aqueous solution by reversed-phase chromatography using bis(2-ethylhexyl) or 2-ethylhexyl phosphate, 23:35268
separation from aqueous solutions by amalgam formation on mercury cathodes in acetate—tartrate media, 24:288
separation from aqueous solutions by solvent extraction, structures of chelates formed in, 22:14566 (ORO-2124-12)
separation from aqueous solutions by solvent extraction, 21:45212 (RISO-159)
separation from aqueous solutions by solvent extraction using a water—immiscible phenol and an alkyl ester of phosphoric acid, 21:17736(P)

separation from aqueous solutions by solvent extraction using tridodecylamine hydrochloride, 22:16685
separation from aqueous solutions by solvent extraction, synergism in, 24:9469
separation from aqueous solutions by solvent extraction using 1,1,1,2,2,3,3-heptafluoro-7,7-dimethyl-4,6-octanedione, 25:223
separation from aqueous solutions by solvent extraction using 1,10-phenanthroline, effects of benzoic acid, hydroxybenzoic acid, or salicylic acid on, 25:233
separation from aqueous solutions by solvent extraction using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione—2,4-pentanedione systems, 23:11605 (ORO-2124-18)
separation from aqueous solutions by solvent extraction using bis(2-ethylhexyl) phosphate, mechanism of, 24:2272
separation from aqueous solutions by solvent extraction as complex with malonic or tartaric acid using amines, 24:9478
separation from aqueous solutions by solvent extraction and gas chromatography, 23:213 (IS-1900, Paper 3)
separation from aqueous solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 25:13092
separation from aqueous solutions by solvent extraction using bis(2-ethylhexyl) phosphate, 24:29361 (CEA-R-4004)
separation from aqueous solutions of hexavalent uranium by solvent extraction using bis(2-ethylhexyl) phosphate, 24:7494
separation from aqueous solutions using high-molecular-weight amines, 23:2403(P)
separation from barium, magnesium, and strontium by chromatography using microcrystalline cellulose columns, 23:28957
separation from berkelium by anion exchange and liquid-liquid chromatography, 25:23526
separation from beryllium fluoride—lithium fluoride—thorium fluoride by transfer through liquid metal to acceptor salt, 23:45369 (ORNL-4396, pp 269-301)
separation from calcium chloride by solvent extraction using bis(2-ethylhexyl) ester of phosphoric acid, 23:383
separation from carrier salt from MSBR, chemistry of reductive-extraction, 23:35270
separation from ceramic nuclear fuels by selective iodination, 23:2407
separation from cesium in determination of cesium-137, 23:31303
separation from cesium-137-free fission product solutions, design of plant for, 22:4304 (EUR-3612)
separation from chloride and nitrate solutions by extraction using alcohols, ethers, and ketones with various salting-out agents, 23:7607
separation from chloride melts, method for, 22:33353
separation from curium by ion exchange, 22:47152 (BMwF-FBK-68-10)
separation from divalent metals by complexing and precipitation, 25:51589
separation from each other by cation exchange using α-hydroxyisobutyrate, 22:33246
separation from effluents from nuclear power plants by ion exchange on cellulose phosphate, 23:38064
separation from euxenites by alloying of other components and solvent extraction, 25:48576(P)
separation from fission product solutions by chromatography or extraction using organophosphorus compounds, 21:24061 (EUR-3277.f)
separation from fission product solutions by solvent extraction using DEHPA and TBP, 25:32038 (CEA-N-1419, pp 257-69)
separation from fission-product solutions, review of methods for, 21:38997(R) (EUR-3299.f)
separation from fused salt fuels by extraction using bismuth—magnesium alloy, 24:16486 (ORNL-4449, pp 96-163)
separation from fused salts by solvent extraction using TBP or TPPO, 25:32043 (NP-18827)
separation from hafnium by precipitation with ferric hydroxide, 22:51070
separation from Hutch debris, semicontinuous process for, 24:31447 (UCRL-50847)
separation from hydrochloric acid media by solvent extraction using tributyl phosphate and diisopentyl methylphosphonate, 23:374
separation from iron and uranium by ion exchange in thiocyanate solutions using Amberlyst A-21, 25:4137 (IS-T-377)
separation from iron by distillation in electron-bombardment furnace, 21:17712
separation from iron—yttrium garnets by elution chromatography, 25:31810
separation from irradiated molten salt fuel by reductive extraction, 24:22731 (ORNL-4366, pp 41-98)
separation from irradiated targets by solvent extraction, 24:22749
separation from large amounts of scandium, thorium, and zirconium by solvent extraction using dibutyl phosphate, 25:31811
separation from lithium chlorides by ion exchange on solid zeolite, 25:15625 (ORNL-4622, pp 60-118)
separation from low-level waste by ion exchange, 22:47206(T) (ORNL-tr-1771)
separation from metals by cation exchange chromatography in ethanol—hydrochloric acid, 23:40829
separation from metals by cation exchange in presence of sulfosalicylate, 25:231
separation from metals by precipitation using cinnamic acid, 22:37855
separation from metals in ammonium sulfate solution by cation exchange, 23:11619
separation from minerals, flotation methods for, 22:18910
separation from molten alkali metal nitrates by solvent extraction using neutral organophosphorus compounds, 25:21101
separation from molten alkali metal nitrates by solvent extraction using trioctylphosphine oxide, 25:21104
separation from molten beryllium fluoride—lithium fluoride by extraction into bismuth—lithium solution, thermodynamics of, 23:17519 (ORNL-TM-2486)
separation from molten beryllium fluoride—lithium fluoride—thorium fluoride systems by extraction using bismuth, 23:38043
separation from molten fluoride fuels by low-pressure distillation, 23:49896(R) (ORNL-4364)
separation from molten fluorides by extraction, 24:46307 (ORNL-4548, pp 93-186)
separation from molten fluorides by extraction using aluminum—tin alloys or tin, 24:16486 (ORNL-4449, pp 96-163)
separation from molten fluorides by extraction using bismuth or bismuth alloys, 23:19693 (ORNL-4344, pp 109-99)
separation from molten fluorides by extraction using molten bismuth, 21:21918 (ORNL-4076, pp 1-54)
separation from molten fluorides by precipitation with uranium trifluoride, 21:21918 (ORNL-4076, pp 1-54)
separation from molten manganese nitrate hexahydrate or calcium chloride hexahydrate by solvent extraction using TBP, 25:54740
separation from molten salt fuels, 24:16486 (ORNL-4449, pp 96-163)
separation from molten salts by extraction using bismuth—gold alloys, 24:46307 (ORNL-4548, pp 93-186)
separation from molten salts by solvent extraction using liquid metals, 22:25374 (ORNL-4229, pp 22-49)
separation from molten-salt breeder reactor fuel, 23:19829 (ORNL-4344, pp 291-327)
separation from molten-salt reactor fuel, 22:47204 (ORNL-4254, pp 241-78)
separation from monazite using ammonium fluoride, 23:388
separation from monazite, ion exchange method for, 24:22767
separation from monazites by treatment with sodium hydroxide and extraction using hydrochloric acid, 21:25954
separation from MSBR fuel, 24:266 (ORNL-4422, pp 1-47)
separation from MSBR fuel by extraction, 25:57298 (ORNL-4676, pp 73-138)
separation from MSBR fuel by extraction using liquid metals, 25:57522 (ORNL-4676, pp 234-71)
separation from MSBR fuel by extraction using tin or tin alloys, 24:36355 (ORNL-4586, pp 50-66)
separation from MSBR fuel by fluorination—reductive extraction, 25:2313 (ORNL-4572, pp 1-36)
separation from MSBR fuel by metal transfer process, 24:46308 (ORNL-4548, pp 277-333)
separation from MSBR fuel salt by metal transfer process, 25:54712 (ORNL-4682, pp 1-38)
separation from MSBR fuel solvent by extraction with bismuth—manganese alloys, 25:54534 (ORNL-4717, pp 43-56)
separation from MSBR fuels and thorium, 24:16625 (ORNL-4449, pp 214-47)
separation from MSBR salts by reductive extraction using bismuth—lithium solutions, 23:352 (ORNL-4272, pp 1-33)
separation from MSRE fuel by reductive extraction by bismuth, 22:47112 (ORNL-4254, pp 88-173)
separation from neutron-irradiated uranium by extraction chromatography, 25:46558
separation from nitrate solutions by extraction chromatography using Aliquat-336, 24:20856
separation from nitrate solutions by extraction using quaternary ammonium nitrates or chlorides, 23:4730(P)
separation from nitrate solutions by reversed-phase partition thin-layer chromatography using organophosphorus compounds, 24:16632
separation from nitrate solutions by solvent extraction using bis(2-ethylhexyl) ester of phosphoric acid, 23:28973
separation from nitrate solutions by solvent extraction using TBP, effects of thorium and uranium on, 24:39031
separation from nitrate solutions by solvent extraction using tributylphosphine oxide or trioctylphosphine oxide, 23:31409
separation from nitrate solutions by solvent extraction using TBP, thermodynamics of, 24:9457
separation from nitric acid by adsorption chromatography using cadmium oxalate, 23:19835
separation from nitric acid by solvent extraction using 2-ethylhexyl ester of phenylphosphonic acid, effects of enthalpy and entropy on, 22:2182
separation from nitric acid concentrates of apatite by extraction using TBP, 24:5733
separation from ores, 22:40191
separation from ores by solvent extraction, review on, 25:10656 (BM-IC-8502)
separation from other elements by solvent extraction using dinonylnaphthalenesulfonic acid, 25:39570 (RCN-141)
separation from other fission products, 21:43028
separation from other fission products by extraction using bis(2-ethylhexyl) phosphate, 24:48163(P)
separation from other fission products by ion exchange on zirconium oxide hydrate—dithionite column, 25:32053
separation from other fission products in reprocessing of irradiated fuels, 23:35293(P)
separation from other metals by ion exchange chromatography using tin tungstate and selenite papers, 23:24279
separation from other metals by ion exchange on resins containing N-methyl-β-aminopropionic acid, 21:30372
separation from pegmatitic ores, leaching studies for, 25:54752
separation from plutonium by solvent extraction using TBP, 25:57357
separation from protactinium by sorption on Vycor and elution with oxalic acid, 21:30502 (ORNL-3950)
separation from Purex waste by solvent extraction using bis(2-ethylhexyl) phosphate, 21:45206 (ORNL-4145, pp 240-2)
separation from radioactive waste by solvent extraction, 22:16694
separation from rare earth oxides by extraction chromatography using bis(2-ethylhexyl) phosphate, 23:49708
separation from rare earths by electrophoretic focusing, 21:34321(T) (ORNL-tr-1717)
separation from reactor fuels by solvent extraction using tetrabutylammonium nitrate—nitropropane, 25:6258(R) (IN-1426)
separation from scandium and zirconium by precipitation using cinnamic acid, 22:37855
separation from scandium by ion exchange as complex with organic phosphorus compounds, 25:26338(P)
separation from scandium by ion exchange in thiocyanate solutions using Amberlyst A-21, 25:4137 (IS-T-377)
separation from scandium by solvent extraction using butyric acid, 24:31234
separation from scandium, thorium, and uranium by thin-layer chromatography, 22:51069
separation from seawater by solvent extraction using bis(2-ethylhexyl) phosphate, 21:36089
separation from seawater by sorption on vessel walls and other materials, 25:26339
separation from Shippingport fuel reprocessing wastes by solvent extraction using TBP and D2EHPA, 23:6196 (ARH-SA-4)
separation from single fluid MSBR fuels for extraction into bismuth, 24:46308 (ORNL-4548, pp 277-333)
separation from single-fluid MSBR fuels, 23:45369 (ORNL-4396, pp 269-301)
separation from single-fluid MSBR fuels by reductive extraction, 23:45369 (ORNL-4396, pp 269-301)
separation from single-fluid MSBR fuels salt by metal transfer process, 25:15726 (ORNL-4622, pp 199-225)
separation from soils following underground nuclear explosions by solvent extraction and ion exchange, 22:45159(P)
separation from solutions containing thorium and trivalent iron by solvent extraction, 22:37873(P)
separation from spent Molten Salt Breeder Reactor fuel, 22:6383
separation from spent nuclear fuel by extraction chromatography and cation exchange, 21:21876
separation from strontium by solvent extraction using TTA, 24:22593 (CEA-R-3908)
separation from thorium and uranium by solvent extraction using TBP, 25:57341
separation from thorium by anion exchange in acetone—hydrochloric acid solutions, 22:14567
separation from thorium by ion exchange, 22:30672(P)
separation from thorium by ion exchange, 25:57342
separation from thorium by ion exchange, 21:19734
separation from thorium by metal transfer process, 24:266 (ORNL-4422, pp 1-47)
separation from thorium by process using metallic zinc, 22:42819
separation from thorium by solvent extraction, 22:10196
separation from thorium by thin-layer chromatography using chelating celluloses and sulfurated silica gel, 25:48586
separation from thorium in acidic aqueous solutions containing ferric ions by solvent extraction using organic phosphorus compounds, 25:15747(P)
separation from thorium in bismuth solution by fractional crystallization, 25:4138 (ORNL-TM-3053)
separation from thorium in minerals by ion exchange, 22:33541(P)
separation from thorium ores, extraction chromatography method for, 21:40772 (IS-1600, Paper 3)
separation from thorium, solvent extraction method for, 25:6419
separation from thorium, uranium, and zirconium by thin-layer chromatography, 25:29187
separation from transplutonium elements by anion exchange in propanol—thiocyanate—water system, 24:29360 (CEA-R-3976)
separation from transplutonium elements by solvent extraction, 24:22749
separation from transplutonium elements, modifications in Tramex process for, 23:357 (ORNL-4272, pp 92-128)
separation from transuranium elements by anion exchange in acetone—hydrochloric acid mixtures, 22:21153 (ANL-7415)
separation from transuranium elements by solvent extraction using nitric acid—tetrabutyl hypophosphate—tetrabutyl pyrophosphate, 22:27853 (INP-591/C)
separation from uranium and protactinium in spent molten fluoride fuels, 24:4360(P)
separation from uranium by cation exchange using sulfonic KU-2 resin, 25:15729(T) (UCRL-Trans-10509)
separation from uranium by fractional dissolution, 25:34699
separation from uranium by ion exchange, 22:4054
separation from uranium by ion exchange, 21:32255
separation from uranium by ion exchange chromatography, 22:33502
separation from uranium by precipitation using oxalic acid, 25:41919
separation from uranium by solvent extraction using 8-quinolinol, 23:21622
separation from uranium by solvent extraction using octyl sulfoxide, 25:232
separation from uranium on sulfonic acid cation exchangers, 22:42835

separation from uranium on sulfonic cation exchanger KU-2, use of various precipitating reagents in, 21:19742
separation from uranium, rapid method for, 24:44034
separation from uranium-barren sulfate leach liquors by solvent extraction using DEHPA, 25:26342
separation from uranyl chloride, nitrate, or sulfate solutions using aluminum oxide and hydrofluoric acid, chromatographic, 24:38996 (PRNC-135, pp 440-50)
separation from waste melts, effects of reducing atmosphere and zinc phosphates on, 21:22114(R) (BNWL-365)
separation from waste solution, solvent extraction process for, 21:30526(P)
separation from yttrium by ion exchange, 22:27883
separation from yttrium by ion exchange using N-(carboxymethyl)-N'-(2-hydroxyethyl)-N,N'-ethylenediglycine, 21:40772 (IS-1600, Paper 3)
separation in nitric acid by solvent extraction using alkylphosphine oxides, 21:28061
separation in nitric acid by solvent extraction using diphosphine dioxide, 21:34323
separation methods for, 21:41292(R) (NP-16972)
separation of, 25:39610 (BM-IC-8476)
separation of actinides from lanthanides by ion exchange using HEDTA, effects of acidity on, 21:15988
separation of adjacent pairs of, by cation-exchange elution using HEDTA, 23:7588 (CONF-681020-(Vol.1), pp 373-83)
separation of adjacent pairs of, by electromigration of α-hydroxyisobutyric acid complexes, effects of ligand concentration on, 24:36379
separation of adjacent pairs of, by electromigration, effects of consecutive complex formation on, 25:32051
separation of adjacent, by cation-exchange chromatography, 25:44415 (NYO-844-84, pp 21-5)
separation of adjacent, by high-pressure ion exchange, 24:22752
separation of adjacent, regularities in formation of complexes for use in, 24:16537
separation of alkali metals simultaneously from, ion exchange, 22:37866
separation of alkaline earths from, by solvent extraction using EDTA, effects of acidity and thiocyanates on, 25:21091
separation of americium and curium from fission product, Talspeak process for, 21:1421(R) (ORNL-3965)
separation of americium and curium from lanthanides, by solvent extraction using hydroxyacetic acid and [(carboxymethylimino)bis(ethylenenitrilo)]tetraacetic acid, 23:40846(P)
separation of americium and curium from, by complexation with diethylenetriaminepentaacetic acid, 24:9480
separation of americium and curium from, by ion exchange, 23:28984(P)
separation of americium and curium from, by ion-focusing electrophoresis, 22:33522
separation of americium from, by reversed phase chromatography using bis(2-ethylhexyl) phosphate and trioctylphosphine oxide, 21:28050 (JAERI-1132)
separation of americium from, by reversed-phase partition chromatography using Aliquat-336, 21:39014
separation of americium from, by solvent extraction using bis(1-isobutylisopentyl) phosphate, 24:20863
separation of americium, curium, europium, and promethium from other, using sodium polyphosphate, electrophoretic, 21:14290
separation of barium from, by ion exchange using 2-methyllactic acid as eluting agent, 22:47233
separation of carrier-free from neutron-activated, electrophoretic, 21:32262
separation of cerium and lanthanum from solutions of, by ozonation and precipitation, 22:23090 (CONF-670502-, pp 692-700)
separation of cerium and lanthanum from solutions of, by ozonation and precipitation, 22:23088 (BM-RI-7123)
separation of cerium and lanthanum from solutions of, by oxidation-precipitation process, 23:2409
separation of cerium from nitrate-containing mixtures of, in solution, comparison of crystallization, hydrolysis, and oxidation methods for, 25:2326
separation of cerium from, by fractionation in chloride melts, 24:2290
separation of cerium from, by solvent extraction, 21:19756(P)
separation of cerium from, by solvent extraction, 22:165(P)
separation of cerium from, by solvent extraction, 23:49893 (INR-1072)
separation of cerium from, by solvent extraction using bis(2-ethylhexyl) phosphate, 23:43396
separation of cerium from, by solvent extraction using dibutyl phosphate, effects of hydrochloric, nitric, and perchloric acids on, 23:11612
separation of cerium subgroup elements from other, by anion exchange chromatography, 23:45387
separation of cerium, lanthanum, and praseodymium from other, by crystallization as chlorides from aqueous solutions, 24:11688
separation of cerium, praseodymium, and terbium from, by thermal decomposition in oxygen atmosphere, 23:407
separation of complex mixtures of, thin-layer chromatographic, 22:27881
separation of curium from, 21:2933 (DP-1039)
separation of dichloroxinates of, by solvent extraction using amyl acetate, 21:59
separation of europium from other, by precipitation and fractional crystallization, 23:9524(P)
separation of europium from other, by precipitation using magnesium oxide, 23:40842(P)
separation of europium from, by precipitation with barium or strontium sulfates, 24:19079(P)
separation of europium from, by solvent extraction using bis(2-ethylhexyl) phosphate, 25:29185
separation of europium or samarium from, by electrodeposition, 23:15934
separation of europium, gadolinium, and samarium from, using high-pressure ion exchange, 24:9485
separation of fission product, by cation exchange using α-hydroxyisobutyric acid as eluant, 25:18501 (RCN-131)
separation of fission product, by complexing with aluminum chloride, 24:46307 (ORNL-4548, pp 93-186)
separation of fission product, by solvent extraction using bis(2-ethylhexyl) phosphate, 21:4616(P)
separation of fission product, from irradiated LMFBR fuel by solvent extraction using dibutyl butylphosphonate, 25:54706 (BNWL-SA-3345)
separation of fission product, from reactor fuels, pyrochemical process for, 22:21168
separation of fission-product, by ion exchange using α-hydroxyisobutyric acid, 21:17728
separation of genetically coupled pairs of, by Szilard—Chalmers effect in complexes with EDTA or DTPA, 22:40157 (JINR-P12-3886)
separation of hafnium and zirconium from, by extraction using 4,4'-methylenediantipyrine in presence of nitrates, 23:4720
separation of hafnium and zirconium from, by ion exchange using methanol, nitric acid, and trioctylphosphine oxide, 23:19857
separation of hafnium from, 22:40051(T) (ANL-Trans-632)
separation of hafnium from, method for, 22:140 (JINR-D6-3281)
separation of hafnium, titanium, and zirconium from, by solvent extraction using Tropaeolin O and Tropaeolin OOO, 23:37892
separation of heavy, in presence of thorium by ion exchange using EDTA and HEDTA, 25:6403
separation of hexavalent, from sulfate solution by solvent extraction using high-moleculear-weight amine in xylene, 23:4725
separation of highly radioactive, by chromatography, design of remote control equipment for, 24:39017
separation of isotopes of, control of calutron ion source activation for, 22:49041(P)
separation of lanthanide, from irradiated fuels, solvent extraction process for, 25:37490(P)
separation of lanthanides by ion exchange and complex-formation elution, 25:251(P)
separation of light, by solvent extraction using Aliquat-336 and DTCA, DTPA, or HEDTA, 25:32033 (BM-RI-7524)
separation of lighter from heavier, countercurrent extraction process for, 25:48578(P)
separation of plutonium from, by ion exchange on zirconium phosphate silicate, 22:30678
separation of promethium from other, by cation exchange chromatography, 23:35130 (DP-1194)
separation of promethium from other, by ion exchange using DTPA and α-hydroxyisobutyric acid, 21:4605
separation of promethium from, by ion exchange using DTPA and NTA, 23:13813 (BNWL-SA-1493)
separation of promethium from, comparison of eluting agents for ion exchange, 23:49913
separation of residues of, from water, ion exchange, 23:2386
separation of samarium from light, by selective stripping of DEHPA organic phase, 25:51572 (CONF-711001-(Vol.1), pp 294-305)
separation of scandium from, by extraction as 4,4'-methylenediantipyrine—nitrate complex, 23:2234
separation of scandium from, by solvent extraction using high-molecular-weight amine in xylene, 23:4725
separation of scandium from, in oxalic acid media by cation exchange, 23:24280
separation of scandium, thorium, and uranium from, by solvent extraction using butyric acid, 21:8402
separation of scandium, thorium, uranium, and yttrium from, by thermal decomposition in oxygen atmosphere, 23:407
separation of strontium from, 21:168(P)
separation of ternary mixtures of, by displacement cation exchange chromatography using chelating eluants, 22:33543
separation of ternary mixtures of, displacement chromatography studies on, 22:16664
separation of thorium from nitric acid solutions of, by solvent extraction using benzoic acid—trioctylphosphine oxide, 25:31770
separation of thorium from, by cation exchange using Dowex 50, 23:49927
separation of thorium from, by ion exchange using ammonium thiocyanate solution as eluting agent, 23:49928
separation of thorium from, by photochemical precipitation, 25:4026
separation of thorium from, by precipitation in hydroxide form, 22:30679
separation of thorium from, by solvent extraction using 5,7-dibromo-8-quinolinol in presence of sodium sulfosalicylate, 24:43950
separation of thorium from, in methanol—nitric acid medium containing trioctylphosphine oxide by cation exchange, 23:398
separation of trace amounts of scandium from, in hydrochloric acid—organic solvent mixture by ion exchange, 23:4721
separation of trace amounts of, by ion exchange chromatography, effects of temperature on, 22:145
separation of trace amounts of, from carbonate solutions by sorption on metal hydroxides, review on, 25:54734
separation of trace amounts of, from gadolinium and neodymium by anion exchange chromatography, 23:13830
separation of trace impurities from, thin-layer chromatographic, 22:27881
separation of trace, from matrices of cerium subgroup by anion exchange chromatography, 22:33496
separation of transplutonium elements from, by solvent extraction using D2EHPA, 23:40800 (CEA-N-1044, pp 290-306)
separation of trivalent, from aqueous solutions by solvent extraction using 2,4-pentanedione, 23:11606 (ORO-2124-19)
separation of uranium from, by hydrolytic precipitation, effects of pH on, 22:40196
separation of uranium from, by ion exchange, 23:7615(P)
separation of uranium from, in oxalic acid media by cation exchange, 23:24280
separation of uranium from, ion exchange method for, 22:33550(P)
separation of ytterbium from, 23:33256(P)
separation of yttrium from other, by ion exchange using hydroxyethylenediaminetriacetic acid, 23:40810(P)
separation of yttrium from other, by solvent extraction using mono-, di-, and trisdecyl orthophosphate, 23:7589 (CONF-681020-(Vol.1), pp 385-96)
separation of yttrium from, by cation exchange using HEDTA, 22:37858
separation of yttrium from, by solvent extraction and ion exchange, 24:4372(P)
separation of yttrium oxide from, by chromatography using EDTA as eluent, 23:45262
separation of zirconium from, by precipitation using cinnamic acid, 22:37848
separation of zirconium from, by precipitation using tartrazine, 24:39004
separation of, bibliography on, 21:43035
separation of, by ion exchange, 21:154
separation of, by ion exchange, 21:3140 (AEET-253)
separation of, by ion exchange, isotope effects in, 21:5993 (JUL-402-PC)
separation of, by precipitation using chelating or sequestering agents, 21:3170(P)
separation of, by reversed-phase partition chromatography, effects of methylenebis[di(2-ethylhexyl)phosphine oxide]-impregnated paper on, 21:150
separation of, by solvent extraction using bis- and mono(2-ethylhexyl) esters of phosphoric acid, 21:13
separation of, Cleanex process for, 23:357 (ORNL-4272, pp 92-128)
separation of, design and performance of multistage mixer-settler extractor for, 21:43088 (IS-T-199)
separation of, development of methods for, 23:35264
separation of, developments in electrochromatographic, 25:221 (UCRL-19526)
separation of, from acidic aqueous solutions by solvent extraction using quaternary ammonium compound, 21:3165(P)
separation of, from actinides by high-voltage electrophoresis, 21:4474
separation of, from aqueous nitrate solutions by solvent extraction using quaternary amine, 21:3166(P)
separation of, from berkelium by solvent extraction using 2-thenoyltrifluoroacetone—xylene, 21:2951
separation of, from fission products, paper chromatographic method for, 21:12345
separation of, from mixed solvents, effects of α-hydroxyisobutyric acid on ion-exchange, 21:14298
separation of, from molten fluoride fuels by distillation, 21:4594 (ORNL-P-2601)
separation of, from samarskites, 21:3140 (AEET-253)
separation of, from scandium, thorium, and yttrium by anion exchange in acetic acid—hydrochloric acid, 21:8426
separation of, ion-exchange process for, 21:34328
separation of, properties of polymethacrylic acid as ion exchange material for, 21:14294
separation of, review of methods for, 24:14710
separation of, review on, 23:17423
separation of, using cellogel strips, electrophoretic, 21:4469
separation of, using elution chromatography in cation exchange columns, 22:3697 (KFK-534)
separation of, using various ligands, 21:19745
separation on sulfonic cation exchanger KU-2, use of various precipitating reagents in, 21:19742
separation on Varion CH complex forming ion-exchange resins, effects of complexing group and pH on, 25:31768
separation using aqueous zinc nitrate solutions, 24:39012
separation using lactic acid, calculations for ion exchange, 22:12417
separation using primary amines, effects of diluents and chelating agents on, 22:10319 (BM-RI-7100)
single-ion anisotropy energy and constants from indirect-exchange interactions, (T), 24:42829
solubility in liquid bismuth—lithium systems, 25:54712 (ORNL-4682, pp 1-38)
solvent properties for tantalum and tungsten, relations with partial molar enthalpies, 23:36120
solvent properties of liquid, for tungsten at 1325 to 2150 deg C, 21:3473
sorption from seawater by glass, polyethylene, and suspended particles, 22:30443
sorption from seawater by ion exchange resins Chelex-100 and Permutit S1005, 22:14442
sorption in the presence of polyaminopolycarboxylic acids, kinetics of ion-exchange, 22:23022
sorption on hot polycrystalline tungsten, lifetime of, 22:27709
sorption on platinum, stearic acid, and tungsten surfaces, 22:47109 (AERE-R-5323)
spectra of magnetically ordered, microwave, 22:54 (AD-646572)
spectra of photoexcited states of, in various crystals, 24:7423(R) (COO-294-9)
spectra of, bibliography on analyses of optical, 24:30142 (NBS-SPEC. PUBL-306-4)
spectra of, effects of sample self-absorption on x-ray emission, 23:6100
spectra of, interpretation of discrete and continuum levels in absorption, (T), 25:43112

- spectra of, measurement of optical, by scattering transmission, 24:44012
- spectra of, origin of high-frequency satellites in L-emission, (T), 24:1271
- spectra of, relation of electron configuration to fine structure in, 21:46138
- spectra of, sets of energy levels in solution absorption, 22:30539
- spectra of, x-ray absorption, 23:6100
- spectra of, x-ray emission, (E), 25:52614
- spectra, properties and methods of interpretation of, 23:18409
- spectral lines inside and outside H and K wings, formation of solar, (E/T), 25:13810
- spectrophotometric studies on, 24:176 (ORNL-4422, pp 304-5)
- spin—spin and spin—other-orbit interactions in atoms of, review, 24:23744
- spin-lattice relaxation in hydrated salts, (E), 21:9669
- spin-wave energies of, (T), 25:47628
- spin-wave energy of, equations for temperature-dependent, 25:33402(R) (ORNL-4669)
- spin-wave excitation energies of ferromagnetic heavy, theory of temperature dependence of, 24:26319
- spin-wave spectra of, effects of interactions on, (T), 21:21089
- spin-wave theory for conical spiral structure in heavy, 25:38584
- stability of bivalent state of, 24:33684
- structure of, valence electron, 21:45135
- sublimation of, heats of, 24:13835
- superconducting properties of, effects of electron interactions in lattice on, (T), 21:20736
- surface friction and wear, effects of crystal structure and properties on, 22:52177
- thermal and thermochemical properties of, 22:30526
- thermal capacities of, 22:42658
- thermal capacity at 0.4 to 4°K, analysis of data on, 22:23757 (CONF-670502-, pp 568-80)
- thermal capacity of, 25:4760
- thermodynamic properties of compounds with elements of groups IIIA, VA, and VIA, review on, 22:31464
- thermodynamic properties of, relation of periodic classification to, 24:41256
- thermodynamic properties of, review of, 22:30526
- thermodynamics of semimetallic compounds of, 21:39705 (COO-1149-96)
- thulium-169 nuclear magnetic resonance in paramagnetic states of intermetallic compounds of, 21:37550
- uptake by plants, effects of soil conditions on, 22:33778 (UCLA-12-640, pp 45-60)
- use as activable tracer in estuarine studies, 24:5616
- use as burnable poisons in reactors, 21:40709
- use as tracers in bearing wear measurement, 22:15191
- use in activation of luminophors, 23:27703
- use in production of lasers, 22:24391 (CONF-670502-, pp 228-38)
- use of metallic, in pole of superconducting magnets, 22:10651
- uses in magnets and steel, review on, 22:31317
- uses of compounds of, review of, 24:14710
- uses of, industrial, 22:25351
- uses of, review of, 22:23726 (CONF-670502-, pp 1-6)
- valence change with pressure or temperature, theoretical model of anomalous, 25:5233
- x-ray emission spectra of, self-absorption effects in soft, (E), 22:7149
- x-ray emission spectra of, wavelengths and energy levels of M series, 22:24023 (CONF-670502-, pp 101-11)
- x-ray spectra from, chemical shift during oxidation, 23:25150
- x-ray spectra of, (E), 21:46139
- yields from proton fission of bismuth, gold, and uranium, (E), 24:22182
- yields of A = 141 to 153, from neutron fission of neptunium-237 in reactor spectrum, (E), 21:42655
- B—C—rare earths, phase studies of, 21:14905
- Co—rare earths, production of permanent magnets of intermetallic, review of methods for, 24:42069
- Co—rare earths, properties and uses of permanent magnets of intermetallic, review of, 24:42069
- polyethylene—rare earths, preparation of radiation shielding material of, 24:44831(P)

RARE GAS IONS

- capture and diffusion of low-energy, in polycrystalline tungsten, 22:52205
- effects on solids, model for relating gas release to disorder produced in, 24:28414
- effects on tungsten tips in field-ion microscope, atomic displacement energy of, 25:43449
- production of focused beams of, design of Plasmatron ion source for, 25:15844 (SGAE-PH-101/1970)
- reactions with atoms and molecules at 50 eV, total charge-exchange cross sections for, (E), 25:40378
- reactions with iron rotating targets at 17 to 30 keV, yield of negative secondary molecular ions from, (E), 24:15161
- reactions with metallic targets in keV range, Auger electron emission from, (E), 23:25149
- reactions with metals, secondary electron spectra from, (E), 22:29213
- reactions with metals, times of Auger de-excitation of holes from, 22:45967
- reactions with niobium single crystals at 100 to 1500 eV, rare gas trapping in, (E), 25:25211
- reactions with nitrogen molecules of excited, energy transfer processes in, (E), 25:14012
- reactions with polycrystalline molybdenum and tungsten at 3 to 19 keV, angular distribution of atoms sputtered from, 23:44524
- reactions with silicon single crystals at 20 to 100 keV, secondary electron emission from, (E), 24:44984
- reactions with tungsten crystals, re-emission of trapped rare gas atoms in, (E), 23:23251
- scattering by copper and silicon crystals at 10 to 30 keV, energy and spatial distributions in, (E), 24:42528
- scattering by rare gases at 25, 50, and 1000 keV, calculation of interaction potentials from differential cross sections for, 25:16811
- sputtering on metals at low energies, effects of trapped gas on, (E), 22:19753

RARE GASES

- see also Argon
- see also Helium
- see also Krypton
- see also Neon
- see also Radon
- see also Xenon
- abundance in Allende meteorite, (E), 24:46821
- abundance in Allende, Murchison, Lost City, and Ucera meteorites; (E), 25:40149
- abundance in Apollo 11 lunar fines, (E), 24:21536
- abundance in Apollo 11 lunar materials, isotopic, (E), 24:21531
- abundance in Apollo 11 lunar rocks, (E), 24:21519
- abundance in Apollo 11 lunar samples, (E), 24:21541
- abundance in Apollo 11 lunar samples, (E), 24:21537
- abundance in Hoba and other iron meteorites, (E), 24:12503
- abundance in Lost City and Suchy Dul meteorites, (E), 25:40145
- abundance in lunar surface material, solar-wind, (E), 24:21538
- abundance in minerals and meteorites, (T), 25:24682
- abundance in recently fallen meteorites, (E), 24:32531
- abundance in unequilibrated ordinary chondrites, 22:11115
- abundance of primordial, in separated meteoritic minerals, (E), 25:6920
- accommodation coefficients of, on molybdenum and tungsten, measurements of thermal, 22:2068
- accumulation on clean metal surfaces, (E/T), 21:29005
- alkali-metal-atom scattering by, data interpretation using Buckingham—Corner potential for, (T), 25:35886
- alkali-metal-excited-atom scattering by, calculation of cross sections for depolarization in, 23:39326
- alpha particle reactions with mixtures of molecular, energy partition parameters of, 21:31218
- alpha particle reactions with, ionization as function of pressure in, 24:31677 (ANL-7489, pp 100-1)
- alpha particle reactions with, ionization as function of temperature in, (E), 23:32154 (CEA-R-3695)
- alpha reactions with, production of alkali metal and alkaline earth metal radioisotopes from, 22:4207
- alpha-particle reactions with binary mixtures of, nonmetastable Penning effect in ionization in, (E), 24:51419
- analysis for oxygen, mass spectrometric method for, 22:9(R) (NBS-TN-425)
- analysis of fission-produced, on-line isotope separator for, 25:6594
- analysis of, by isotope dilution methods, 21:2991
- analysis of, mass spectrometer for high-temperature, 22:33207 (LA-DC-8999)
- applications in physics, (T), 25:24682
- atom scattering by molecular, at 40 to 120 keV, differential cross sections and angular distributions for, (E/T), 25:49733 (CEA-CONF-1780)
- bibliography on chemistry of, (1962—1968), 24:9267 (ANL-7509)
- book: Introduction to Dynamics of Rarefied Gases, 22:20017
- book: The Encyclopedia of the Chemical Elements, 22:45055
- book: The Noble Gases, 21:8301
- bounds for van der Waals coefficients from Pade approximants, (E/T), 22:7138
- cesium reactions with, cross sections for depolarization of Cs $^2P(^1/_2)$ states in, (E), 21:28978
- charged-particle reactions with, research program on excitation in, 24:3166(R) (ORO-3650-2)
- chemistry in recoil reactions, 22:27741 (BNL-12361)
- chemistry of, 25:41778 (UCRL-20500, pp 1-85)
- collision numbers of, from thermal transpiration measurements, rotational, 24:37002 (ORNL-4586, pp 87-97)
- compounds of, preparation of, review of, 21:138
- conference on, 21:29279
- containment of, method for production of foams for, 24:51238 (DUN-SA-141)
- content in chondrites, relations with carbon content, 22:172
- content in unequilibrated ordinary chondrites, primordial, (T), 21:14995
- crystal structure of, at 0°K, isotopic volume shifts in, 24:9292
- desorption from Pyrex of ionically pumped, (E), 22:9462
- detection probability of 0.3- to 3.0 keV ions of, in low-pressure Geiger—Mueller counters, 21:12652
- determination in cover gas in sodium-cooled reactors, 25:31764 (ANL/ST-6)
- determination in neutron-irradiated Moon rocks, (E), 25:16737 (UCB-34-P-32-0-3)
- determination of isotopic abundance of, in meteorites using laser microprobe, spectrometric, 21:42884
- determination of radioactive, released from fuel elements by gas chromatography and γ spectrometry, continuous, 25:57344 (CEA-R-4218)
- determination of small quantities of, gas chromatography method for, 22:43179(P)
- determination of trace amounts of, in high-purity gases by gas chromatography, 24:38706 (DP-Report-253)
- determination of trace amounts of, in seawater, review on methods for, 25:28921
- determination of, use of gas chromatography in, 22:12229(T) (MLM-1472(tr))
- deuterium molecule scattering at thermal energies by, velocity dependence of total elastic cross sections for, (E), 22:5092
- deuterium-hydride scattering at 300 to 3500 m/sec by, total effective cross sections for, (E), 25:58781
- deuterium-ion (D_2^+) reactions at 3 to 5 keV with, energy distribution of dissociation products from, (E), 23:32168
- deuteron reactions at 0.6 to 15.0 keV with, polarization of Lyman-alpha radiation from charge-transfer, (E), 23:22886
- deuteron reactions with, classical calculation of ionization cross sections for, 24:39867
- deuteron reactions with, polarization of Lyman alpha radiation from charge exchange, (E), 22:15344
- diffusion and release from uranium dioxide, review of, 25:58413
- diffusion and trapping of fission product, in activated charcoal, 24:41243(R) (DP-Report-363)
- diffusion following recoil labeling from plane and spherical solids, mathematical analysis of, 22:6338
- diffusion from aqueous solutions, mass transfer studies on, 21:25815 (BNWL-CC-484)
- diffusion from carbide fuels in hydrolysis, 24:27033 (GAMD-9670(Rev.))
- diffusion in cesium chloride doped with potassium chloride and rubidium chloride, 24:2266(R) (HMI-B-84)
- diffusion in graphite, 24:38805 (NP-9983)
- diffusion in ion-bombarded alpha-alumina, high-resolution measurements, 21:44185
- diffusion in ionic crystals, use to study lattice defects, 21:44186
- diffusion in metals and oxides, kinetics of, 23:33969
- diffusion in metals, (T), 25:24682
- diffusion in meteorites, 22:52307(R) (AD-665431)
- diffusion in neutron-irradiated alkali metal halides, alkaline earth fluorides, calcium oxide, thorium dioxide, uranium carbide, and uranium dioxide, 24:36968 (HMI-B-93)
- diffusion in nuclear fuels, 21:15796
- diffusion in potassium chlorides, fluorides, and iodides, 21:15796
- diffusion in rhenium, tantalum and tungsten at high temperatures, 21:10215 (GEMP-61, pp 79-92)
- diffusion in solids, 25:19785
- diffusion in solids, 22:30588(R) (HMI-B-66)
- diffusion in solids, effects of trapping on gas release, (T), 25:6859
- diffusion in solids, mechanisms of, 23:34095
- diffusion of fission product, through Mylar films, 24:33700
- diffusion of radioactive, in calcium fluoride, urania, and uranium carbide, 21:30293
- diffusion of short-lived isotopes of, in MSRE graphite, 21:32861 (ORNL-TM-1810)
- diffusion studies in, 24:13802 (ORNL-4400, pp 93-102)
- diffusion studies in binary systems of, 22:25331 (ORNL-4229, pp 115-18)
- distribution of fission product, between argon and liquid sodium, 22:53350
- distribution of fission product, in mixed oxide fuels, 25:39470(R) (ANL-7750)
- driving helical-screw graphite expanders and compressors by, to 2750°F, 21:30601
- effects of void-trapped, on incipient boiling superheat in sodium, 25:8415
- effects of, on deuterium—hydrogen exchange in glow discharges, 21:3068
- effects on γ-induced reactions of hydrogen and oxygen, 24:19010
- effects on incipient boiling superheat of liquid alkali metals, 23:50034
- effects on isomeric-transition-induced bromine-82 reactions with methane, 22:16565 (COO-1617-10, pp 8-36)
- effects on operation of cesium thermionic diodes, 22:31680
- effects on parameters of cesium thermionic diodes, (T), 21:27040
- effects on radioinduced formation of hydrazine from ammonia, 21:25925(P)
- effects on radioinduced isotopic exchange in gaseous nitrogen, 22:10310
- effects on radiolysis of ammonia, 21:34311(R) (NYO-1396-103)
- effects on radiolysis of gases, 22:40115
- effects on reactions of recoil chlorine or iodine atoms in thermal neutron irradiation of mixtures of iodine, iodine chloride, or methyl chloride and deuterated or normal methane, 24:18985(R) (COO-1617-19)
- electric discharges in alkali-metal-seeded, constricted positive column, (T), 23:10639
- electric discharges in alkali-metal-seeded, constricted positive column, 22:1237
- electric discharges in, impurity effects on, (T), 23:39473
- electric discharges in, ion waves in, 22:7321
- electrical conduction through, measurement of high temperature, 22:33087 (ANL-7310, pp 513-22)
- electromagnetic susceptibility of atoms of, relation to Rayleigh scattering, (T), 22:21880
- electron collisions with atoms of, (T), 22:8995
- electron diffusion coefficients for, (T), 21:9342
- electron elastic scattering by, classical treatment of Ramsauer effect in, 24:12643
- electron elastic scattering by, resonances in, (E), 25:14035
- electron reactions at low energies with, review of resonances associated with compound states in, (E), 23:36510
- electron reactions with, absolute total excitation cross sections for, (E), 23:32164
- electron reactions with, angular dependence of spin polarization for, (E/T), 22:38767
- electron reactions with, angular distribution of ions from, (E), 24:35182
- electron reactions with, collected experimental cross sections and macroscopic coefficients for, 23:41965
- electron reactions with, cross sections for ionization in, (T), 25:11701
- electron reactions with, distorted-wave calculation of cross sections for excitation in, 25:14015

electron reactions with, distorted-wave formulation with exchange for excitation in, (T), 25:38159
electron reactions with, excitation processes in, (T), 22:21904
electron reactions with, radial-equation system for, 22:2818
electron reactons at 70 eV with, ionization cross sections for, (E), 24:51417
electron scattering at 0.034 to 0.21 eV by, total cross sections for, (T), 24:1280
electron scattering by atomic beams of, angular distribution in, (E), 21:9326
electron total cross sections for, (E), 21:41751(R) (AD-646244)
electron velocity distribution in partially ionized, under action of electric and magnetic fields, (T), 22:9375
electronic states of gaseous atoms of, 25:41778 (UCRL-20500, pp 1-85)
emission from sputtered tungsten, 23:27136
excitation by collisions with ions, 22:23037(T) (AD-660408)
extraction from lunar surface materials, system for, 21:23821(R) (N-67-13662)
fission-fragment range-energy relations for, (E), 21:40432 (WASH-1074)
flow control for processing and testing materials, 21:34859(R) (N-66-32643)
generation of, in close-coupled fuel cycles, 21:10567 (CONF-660208-, pp 61-73)
helium atomic beam scattering on, cross sections for, 22:47791(T) (MLM-1553(tr))
helium scattering at thermal energies by, velocity dependence of total elastic cross sections for, (E), 22:5092
helium-hydride-ion reactions at 10 keV with, angular distribution of He^+ fragments from, (E), 25:24917
helium-hydride-ion reactions at 10 keV with, dissociation into helium atom and proton in, (E), 24:51422
helium-hydride-ion reactions at 10 keV with, effects of excited states on dissociation in, (E), 25:24918
helium-ion reactions with, classical calculation of ionization cross sections for, 24:39867
hydrogen atom scattering at 0.05 to 0.5 eV by, velocity dependence of total cross sections for, (E), 21:18424
hydrogen molecule scattering at thermal energies by, velocity dependence of total elastic cross sections for, (E), 22:5092
hydrogen-atom elastic scattering by, calculation of interaction potentials from, 25:4957
hydrogen-atom reactions with, review of charge exchange in, (E), 25:58743
hydrogen-ion (H_2^+) reactions at 3 to 10 keV with, relation between excitation and angular dependence of dissociation cross sections for, (E), 23:36518
hydrogen-ion (H_2^+) reactions at 3 to 5 keV with, energy distribution of dissociation products from, (E), 23:32168
implantation in solids, research uses of, 21:28997
impurities in plasma of, transverse separation of metallic, 21:5281
inhalation of, radiation dose distribution in man following, 23:16292 (RD/B/N-1274)
interaction energy of atoms of, constants for calculation of nonadditive multipolar, 24:35165
interactions of atomic, intermolecular potentials for, 21:1419(R) (MLM-1352)
interatomic potential between alkali metal ions and atoms of, model including charge-exchange contribution for, 23:16667
ion mobility in, doubly charged, 22:9085
ion reactions with, research program on, 24:37219(R) (ORO-2911-12)
ionization and excitation from metastable electron loss in, (T), 22:38725 (N-68-22686)
ionization by charged particles, measurement of primary specific, 23:14646
ionization by electrons at 0 to 250 eV, multiple, 21:31204
ionization by electrons, comparative cross-section data for, 21:11413
ionization in low-pressure shock tubes, analysis of profiles for, (T), 22:29288
ionization of pure, chamber for studying effect of pressure on, 24:27331 (ANL-7615, pp 228-9)
isotopic abundances and origins in meteorites, review, 22:26197
isotopic abundances of, in Apollo 11 lunar fines, (E), 24:21533
isotopic analysis of, from heating of Apollo 11 lunar samples, (E), 24:21532
isotopic composition in Apollo 11 lunar samples, (E), 24:21534
maximum permissible limits of radioactive, in atmosphere and laboratories, 21:43218(T) (BNL-tr-141)
measurement of radioactive, review of, 21:38934
mercury atom collisions with, cross sections for, 22:7178
monitoring HFIR reactor stack for, design of filter for iodine removal in, 21:34383
neon-hydride-ion reactions at 10 keV with, effects of excited states on dissociation in, (E), 25:24918
neutron scattering by, electron-neutron interaction from thermal, (E), 21:2652(R) (ANL-7198)
occurrence in lunar surface materials, isotopic, (T), 25:2881
particle velocity distribution measurements in, time-of-flight analyzer for, 21:29009
physical properties of crystals of, calculation from interatomic exchange potential, 25:27444
plasma of, automodel motion of, (T), 22:29483
plasma of, cyclotron echo formation in, (E/T), 21:23186
plasma of, diagnostics of, (E), 22:29473
plasma of, dielectric properties in pulsed discharges, (E), 23:16800
plasma of, dispersion relations for moving striations in, (T), 21:25144
plasma of, electron diffusion cross sections in, 22:34676
plasma of, electron—ion partition and recombination energy in decaying, 23:1433 (N-68-27401)
plasma of, electron—ion recombination rates in, (E), 24:3348
plasma of, ion mobility measurements in, 22:31833
plasma of, ion—acoustic wave dispersion in discharge, (T), 24:8501
plasma of, kinetics of simple waves in, (T), 23:32538
plasma of, photoionization from z-pinch discharges in xenon, (E), 24:42705
plasma of, production in discharge columns, (T), 21:2269
plasma of, properties in low-pressure positive column discharges, 21:42068
plasma of, properties in low-pressure positive column discharges, 21:42067
plasma of, properties in medium-pressure positive column discharges, 23:6993
plasma of, temperature and electron density measurements in high pressure, 23:6978
positron elastic scattering by, review of approximation methods for, 24:21588
positronium thermalization in moderators of, (T), 22:19754
potassium-atom elastic scattering at 300 to 15000 m/sec by, cross sections for, (E/T), 25:14005
potassium-ion reactions up to 12 keV with, cross sections for excitation of resonance lines in, (E), 24:10380
preparation of, vacuum system for, 24:13766 (NBS-TN-501)
production of, application of gas chromatography to, 22:12229(T) (MLM-1472(tr))
production of, properties of hydroxide targets for, 24:22023 (CERN-70-3)
proton reactions at 0.6 to 15.0 keV with, polarization of Lyman-alpha radiation from charge-transfer, (E), 23:22886
proton reactions at 20 to 150 keV with, cross sections for formation of excited hydrogen atoms by charge exchange in, (E), 25:24904
proton reactions at 4 MeV with, vacuum-ultraviolet spectra from, (E), 24:46999
proton reactions with, classical calculation of ionization cross sections for, 24:39867
proton reactions with, polarization of Lyman alpha radiation from charge exchange, (E), 22:15344
proton reactions with, review of charge exchange in, (E), 25:58743
purification of, evaluation of methods for, 24:38994 (NP-10872)
radiation effects on release of, from hydroquinone clathrates, 22:23044
radiochemistry of, review of, 21:138
radioinduced diffusion in crystals of cesium iodide, 22:4908
radioinduced fluorescence in, alpha, 21:32458
ranges of fission product, in gases, effects of diffusion on, 25:41885
rare-gas-ion scattering at 25, 50, and 10 keV by, calculation of interaction potentials from differential cross sections for, 25:16811
reactions between atoms of, dipole moment induced in, (T), 25:43136
reactions between excited- and ground-state atoms of alkali metals and, calculation of cross sections for excitation transfer in nearly adiabatic thermal, 23:30346
reactions of atoms of, with alkali metal atoms, gyromagnetic-ratio shifts in, (T), 23:10459
reactions of atoms of, with cadmium, mercury, and zinc, cross sections for transitions between fine structure components in, 22:11205
reactions of cyclotron-accelerated ions of, with metals, 21:36862 (FEI-44)
reactions of ions and excited atoms of, 22:36719
reactions of ions of, with gases, charge transfer cross sections for, 22:38792
reactions of metastable and highly excited, with hydrogen molecules and deuterium hydrides, 22:29287
reactions with (110) and (211) tungsten surfaces, thermal desorption spectra from, 23:42431
reactions with alkali metal, verification of salt formation, 22:7373
reactions with cadmium 6^1S_1 state, cross sections for, 22:45968
reactions with germanium single crystals by ions of, temperature effects on sputtering, 21:24921
reactions with hydrogen, 23:13756
reactions with hydrogen atoms, calculation of van der Waals, 22:9008
reactions with molecular hydrogen ion, effects of deuterium on, 22:6310
reactions with nitrogen molecules of excited atoms of, energy transfer processes in, (E), 25:14012
reactions with optically oriented metastable atoms of argon, neon, and xenon, depolarization cross sections for, (E), 24:8350
reactions with rare gases, classical theory of infrared absorption from, 21:16823
reactions with recoil tritons, calculations of recoil losses in, 23:11562
reactions with sodium atoms, impact-parameter calculation of cross sections for fine-structure transitions in, 25:9207
reactions with sodium chloride single crystals at 30 to 500 keV, effects of doping on thermal release following, (E), 23:42427
reactions with solids, interaction potentials for molecular, (T), 22:19767
reactions with tungsten (111) and (110) surfaces of metastable atoms of, adsorbate effects on electron ejection by, (E), 23:20675
recovery in fuel reprocessing, economic aspects of, 23:26334
reflection from surface of polycrystalline tungsten ribbon in presence of oxygen, 24:46717
reflection from surface of polycrystalline tungsten ribbon in presence of carbon dioxide, 24:46716
release and absorption of fission product, literature survey on, 22:53276 (HMI-B-76)
release during annealing of ion-bombarded solids, review of, 25:58412
release from stack effluent from West Valley Processing Plant, 24:9422 (DOCKET-50201-21)
release in stack effluent from West Valley Processing Plant, 24:9423 (DOCKET-50201-22)
release in stack effluent from West Valley Processing plant, 24:9424 (DOCKET-50201-23)
release in stack effluent from West Valley Processing Plant, 24:9425 (DOCKET-50201-24)
release in uranium oxide (UO_2) rod type fuel elements, effects of burnup on, (E), 24:22427(R) (IDO-17303)
release of fission product, effects of operating parameters on uranium oxide (UO_2) fuel element, (E/T), 24:5571 (IN-1346)
removal from air, use of permselective membrane for, 22:7816(R) (ORNL-TM-2057)
removal of radioactive, from off-gas streams, 21:14408
resonance levels of, lifetime and g factors of, 21:31206
rubidium reactions with, cross section for depolarization of Rb $^2P(^1/_2, ^3/_2)$ states in, (E), 21:28978
scattering by metals, comparison of classical models with experiments on, 23:44179
scintillation mechanism in ionization chamber filled with, ionizing particle track, 23:29157
separation from air by dimethyl silicone rubber membrane, 21:40571(R) (ORNL-TM-1913)
separation from air by permselective membrane, 21:25630(R) (ORNL-4071)
separation from air by transport through permselective members, 23:13828(R) (ORNL-TM-2294)
separation from air using permselective membranes, 21:45202 (ORNL-4145, pp 104-29)
separation from fission gases, methods for, 25:4260 (CEA-Bib-184)
separation from gaseous radioactive wastes, review of methods for, 23:40979
separation from off-gas streams, evaluation of thin silicone rubber membranes for, 25:29317 (ORNL-4522)
separation of fission product, from gaseous effluents, evaluation of methods for, 25:51586 (RT/PROT-(71) 8)
separation of fission product, from off-gases of fuel reprocessing, review on methods for, 25:44426
separation of isotopes of, gas-chromatographic method for, 25:6414(P)
separation of nitrogen dioxide and nitrous oxide impurities from, by sorption on alumina gels, molecular sieves, and silica gels, 24:44066 (IN-1402)
shipping of radioactive, design of containers for, 24:5716
shock wave interactions with, radiations from, (E), 22:26430
solubility in liquid metals, 25:39470(R) (ANL-7750)
solubility in liquid sodium, 24:43991 (ANL-7650, pp 41-66)
solubility in potassium and sodium, review on, 24:44777 (BNL-50248)
solubility in sodium reactor coolant, safety aspects of, 24:51152 (KFK-1166)
sorption efficiencies of, on Pyrex glass surfaces in ultrahigh vacuum systems, 21:22122
sorption of ions of, by titanium in ultrahigh vacuum, 21:34458
spectra in powerful pulsed capillary discharges, (E), 23:32373
spectra in vacuum-ultraviolet region, comparison of discharge- and proton-excited, (E), 24:46999
spectra of heavy, calculation of absolute transition probabilities for, (T), 24:37576 (BMBW-FBK-70-7)
spectra of mixtures of, theory of line shape for collision-induced translational absorption, 22:36740
spectra of, collision broadening and shift in, (T), 21:18435
spectra of, identification of autoionizing states in absorption, (E), 23:18408
spectra of, quantum mechanical theory of pressure shift in high-series lines of, 24:1280
stack release rates of, from Enrico Fermi Atomic Power Plant, monitoring of, 21:32280
storage of radioactive, from reprocessing of spent fuels, 24:5716
thermodynamic properties of, relation of periodic classification to, 24:41256
tissue distribution of, relation to concentration in air, 21:43218(T) (BNL-tr-141)
transport in solids, bibliography on, 22:3158 (AED-C-29-01)
trapping in cavities in iron meteorites, (E), 25:30158(R) (UCSD-34-P-43-X-9)
trapping in cryogenic porous media bed with charcoal adsorber, 25:29075(R) (DUN-7221(Vol.2))
trapping in long-lived, high-expansion plastic foam, 25:29074(R) (DUN-7221(Vol.1))
trapping in low-temperature matrices of, spectroscopic studies of high-temperature species, 24:18853 (UCRL-19093)
trapping in lunar surface materials, (E), 24:21542
use of radioactive, in analysis of gases, liquids, and solids, 24:38755
use of radioactive, in studies of solids, 22:50981
wave functions for molecular, high-accuracy many-electron, 24:48012(R) (NYO-3532-9)
wavefunctions for, many-electron, 23:26137 (NYO-3532-8)
x-ray elastic scattering at 1 to 1000 keV by atoms of, use of variational solution of Thomas—Fermi equation for calculation of total cross sections for coherent, 24:19769
yields of delayed-neutron emitting, in uranium fission, (E), 23:40054
O—rare gases, combustion of fused zirconium droplets in, 22:42977(R) (SC-PR-68-451)

propane—rare gases, radiolysis of, γ, 22:27840
Raschig Rings
see Column Packing
Rate Meters
see Radiation Rate Meters
RATS
accumulation of barium, calcium, radium, and strontium in bones of, tracer studies of, 23:38424
accumulation of Thorotrast in lymph of, following injection into pericardial cavity, effects of time on, 23:6389
acid mucopolysaccharide localization in cells of intestines in, use of thorium-containing stainss for, 22:10824 (BNWL-480, pp 1-19)
ACTH synthesis in pituitary gland of, effects of adrenalectomy on, 22:23458
actinide clearance from blood of, mechanisms in americium, curium, and plutonium, 23:2748
actinide content of fetus following administration to pregnant, 22:10675 (BNWL-480, pp 21-54)
actinide distribution in blood serum proteins of, methods for determination of, 23:24629
actinide distribution in blood serum proteins of, americium, curium, and plutonium, 23:2748
actinide uptake by fetuses and placenta of, 22:30948
actinium-228 content of organs of, following intravenous and subcutaneous injection, 25:32336
activity of histidine decarboxylase in starved, effects of NSD-1055 on, 23:41229(R) (NYO-2085-13)
activity of phospholipase B in tissues of, in relation to content of eosinophilic leukocytes, 23:11996(R) (ORO-3329-4)
adenosine triphosphate synthesis in mitochondria and nuclei in liver and thymus of, effects of cysteamine on, 25:4597
adrenal cortex functioning in, effects of pituitary extract combined with phosphorus-32 on, 21:22341
adrenal function in, effects of AET followed by nitrogen mustard poisoning on, 21:22296
ADU metabolism in, following inhalation, 22:33740
aerosol clearance by lungs of, role of alveolar macrophages in, 24:11905 (EUR-4281)
AET toxicity to, 24:12127
age of, effects on hazards from ingestion of radionuclides, 21:28586 (BNWL-SA-1144)
alkaline earth metabolism in, barium-133 and strontium-85 tracer study of, 21:28364
alveolar endothelium reaction to nickel carbonyl, pathological, 22:6216(R) (ORO-3461-9)
alveolar macrophages of, experimental study of origin of, 25:41649(T) (LF-tr-52)
amelogenic cell migration in teeth of, tracer study of, 24:9925(R) (ORO-3554-2)
americium distribution in liver of, following injection, tracer study on, 25:37720 (EUR-4612, pp 205-22)
americium-241 distribution and excretion in organs and tissues of, following intraperitoneal and intratracheal administration, kinetics of, 25:23966(T) (AEC-tr-7195, pp 161-7)
americium-241 distribution in bones of, in relation to bone-growth status, calcium-45 tracer study of, 23:38421
americium-241 distribution in organs and tissues of, effects of chelating agents on, 25:23967(T) (AEC-tr-7195, pp 168-74)
americium-241 metabolism by, effects of route of administration on, 22:47473
americium-241 removal from respiratory tract of, effects of DTPA on, 25:49092
americium-241 retention in bones and liver of, following intravenous injection, 24:556
americium-241 uptake by developing teeth in, autoradiography and microautoradiography studies on, 25:44759
amino acid metabolism in, carbon-14 tracer study of, 24:33990 (UCRL-19420, pp 40-5)
amino acid metabolism in, following ingestion of γ-irradiated potato tubers, 22:43262
amino acid uptake by erythrocytes and plasma of, during radiation sickness, 21:22336
ammonia content in brain tissues of, effects of radioprotective compounds on, 22:19394
analysis of liver, serum, and tissue of, for magnesium by solvent extraction and activation, 21:34224
analysis of myocardium of, for cobalt and calcium, electron microscopy, photometry, and activation methods for, 23:40585
analysis of tissues of, for carbon-14 and tritium by liquid scintillation counting, 21:5809
analysis of tissues of, for copper by neutron activation, 23:4567
antigens transplantation in, review of genetics of, 25:2537
asbestos fibers in tissues of, distribution of, after intrapleural injection, tracer study, 21:30766 (AERE-R-5289)
assimilation of glucose in, following polonium injections, 21:6443
barium-133 uptake and elution of, by powdered bone of, mechanism and rate of, 22:8455
barium-137 metabolism in, 21:39322 (CEA-R-3108)
barium-140 excretion by, effects of DTPA on, 21:36596
barium-140 metabolism in, determination of, by whole-body counting, 21:28395
barium-140 retention by, effects of DEETA, DTPA, and sodium sulfate on, 22:10729
behavior and brain measurements of, effects of differential experiences on, 23:9845 (UCRL-18216, pp 1-43)
behavior following exposure to stress, effects of ionized air on, 22:15104
behavior patterns of Rattus rattus and Rattus exulans, on Eniwetok Atoll, 21:41312 (COO-1485-14)
behavior studies in, 21:45506(R) (UCRL-17520)
beryllium excretion and toxicity in, protective effects of organophosphorus complexing agents on, 22:43206(T) (JPRS-45973)
beryllium poisoning of, determination of median lethal dose and mechanism of toxicity by, 21:24354
beryllium-7 half-life in, from proton-induced spallation in tissues, 24:44403 (CONF-691101-, pp 159-65)
beryllium-7 removal from, by use of complexing agents, 21:10747
beta emission from tumor transplants in, development of counter for continuous measurement of phosphorus-32, 22:12851
binding of gold-198 colloids to serum proteins in, methods for determining, 23:50263
binding sites of acetaminofluorene to tissues of, localization of, 23:45162 (NYO-2651-21)
biochemical reactions of, effects of γ-irradiated sucrose solutions on, tracer study of, 23:16417
biological stress in, radioisotope tracer study of sodium-potassium ratios in urine for detection of, 24:31797
bismuth-212 content relative to lead-212 in tissues of, following inhalation of thoron, 25:46683
bismuth-212 distribution in, after inhalation of radon-220, 21:12749(R) (NYO-3086-6)
blood and brain water space of, use of tritium for determining, 22:40572
blood circulation in adipose tissues of, validity of tracer method for determining, 23:50246
blood composition of, effects of irradiated strawberries on, 21:20459
blood platelet kinetics in, comparison of selenium-75 to chromium-51 for tracer studies of, 24:41732
blood volume in, use of iodine-125-labeled albumin for measuring, 25:32319
body composition of, relation of potassium to, 22:21460(R) (COO-1171-82)
bone fractures in, effects on lethality of x radiation syndrome following, 21:13054
bone marrow cells of, effects of, on production of leukocytes in x-irradiated mice, 21:22268
bone marrow stem cells in neonatal, effects of nitrogen mustard on proliferation of, 24:11894
bone marrow transplantation in, review of, 23:33750
bone marrow transplants in x-irradiated, survival mechanisms for, 24:11972(R) (NYO-3808-2)
bone marrow transplants in x-irradiated, survival of, 24:11973(R) (NYO-3808-3)
bones of rachitic, effects of uv-irradiated milk and vitamin D3 on incorporation of phosphorus-32 in, 21:6466
brain development in, effects of behavioral environment on anatomical and chemical, 21:4430 (UCRL-16806, pp 34-8)
brain of, dosimetry methods used in x radiation of, 21:6693
brain respiratory rate in D_2O, 25:55121
brain tumors in, isolation of transplantable, chemically induced, 21:26471(R) (NYO-3267-4)
breathing patterns of, effects of age, anesthesia, strain, and weight on, 25:23448 (LF-42)
breeding for use in laboratory research, 22:28621 (ANL-7278, pp 1-94)
bremsstrahlung emission by carbon-14 and tritium in, use of scintillation detectors for measuring, 21:41421
bromine-82 content of blood and thyroid of, effects of perchlorates and thyrotropin on, 22:10689
cadmium effects on intestine of, protective effects of selenium and zinc against, 22:51325
cadmium-109 metabolism in, following subcutaneous administration, 23:22193
calcium absorption from intestine of, effects of pH on, 21:10788
calcium content in incisor teeth of, effects of strontium content in diet on, 21:41322
calcium content of blood of, effects of parathormone, thyrocalcitonin, and vitamin D on, 22:6200(R) (COO-1668-3)
calcium excretion by kidneys of, effects of fursemide on, 21:16285
calcium excretion from bones of, tracer study of, 23:20140
calcium excretion in urine of, effects of dose on, 22:40521
calcium metabolism in, effects of age on, 22:8466
calcium metabolism in, effects of age on, tracer studies of, 22:38202
calcium metabolism in, effects of corticosteroids on, 21:6402 (IA-1082, pp 203-15)
calcium metabolism in, effects of thyrocalcitonin on, 22:6716 (ORO-284-10)
calcium metabolism in, tracer study of effects of diet on discriminatory, 23:12019
calcium radioisotope metabolism and mobilization in, during pregnancy and lactation, 23:22199
calcium radioisotope metabolism in, in relation to growth rate, 24:27519
calcium retention in, use of calcium-47 and whole-body liquid scintillation counting to determine, 23:33587
calcium sorption by intestine of, chromium-51 tracer study of, 24:568
calcium sorption by intestines of, effects of alginates on, 22:19240
calcium uptake and retention by mineralized tissues of, relation with strontium, 21:22363
calcium-42 uptake by cartilage from rachitic, incubated in urine from patients with calcification abnormalities, use for diagnosis, 21:22543
calcium-45 deposition in fetal teeth of, following maternal administration, 21:6657
calcium-45 distribution in autograft and normal bones of, 21:43350
calcium-45 distribution in bones of, 22:14915(R) (TID-24217)
calcium-45 distribution in developing teeth of, comparison with tetracycline distribution, 22:40549
calcium-45 efflux in myometrium of, effects of contraction on, 24:48381
calcium-45 efflux in myometrium of, effects of external calcium concentration on, 25:8601
calcium-45 excretion by, effects of calcium content in diet on, 21:14539 (BNWL-280, pp 28-31)
calcium-45 excretion by, ratio of urinary to fecal, 21:45572
calcium-45 in blood of, determination of safe concentration of, 21:6657
calcium-45 in teeth of fetal, autoradiographic localization of, 21:6657
calcium-45 incorporation in subcellular fractions of liver of, effects of uncoupling agents on, 22:16989
calcium-45 loss from isolated diaphragm from, effects of calcium-free solutions on, 22:51419
calcium-45 metabolism by, effects of calcium content of diet on, 21:36521
calcium-45 metabolism in cartilage of, autoradiographic study of, 22:51341
calcium-45 metabolism in thyroidectomized Long-Evans, 21:22259
calcium-45 metabolism in, effects of age on, 22:38202
calcium-45 metabolism in, effects of burns on, 22:21422
calcium-45 metabolism in, effects of calcium content of diet on, 22:25770
calcium-45 metabolism in, effects of DTPA on, 21:18002
calcium-45 metabolism in, effects of phosphorus content in diet on, 21:16266
calcium-45 metabolism in, effects of thyrocalcitonin on, 21:41327
calcium-45 metabolism in, effects of thyroidectomy on, 21:22259
calcium-45 metabolism kinetics in bones of, 21:22270
calcium-45 sorption by embryonic bones of, in vitro, effects of steroids on, 24:2552
calcium-45 sorption from gastrointestinal tract of, effects of inhibitors of oxidative phosphorylation on, 21:45562
calcium-45 sorption in bones of, effects of calcium alginate on, 21:28361
calcium-45 sorption in intestinal tract of, effects of calcium ion content on, 25:4430
calcium-45 uptake and elution of, by powdered bone of mechanism and rate of, 22:8455
calcium-45 uptake by bones of, autoradiographic study of, 22:2486
calcium-45 uptake by duodenum of, effects of sodium alginates on, 22:30975
calcium-45 uptake by microsomes of brain of, effects of ATP, mineral salts, ouabain, and sucrose on, 23:22226
calcium-45 uptake by sections of duodenum of, effects of oxydized amylose, oxycellulose, and sodium alginate on, 22:6900
calcium-45-labeled glycine incorporation into tissues of, effects of strontium-89 on, 24:16955
calcium-47 metabolism in, effects of age on, 22:38202
calcium-47 metabolism in, effects of estradiol on, 25:8592(R) (COO-1339-43)
calcium-47 metabolism in, effects of lactation on, 24:31833
calcium-47 retention in skeleton of, effects of CPDTA on, 22:43222
calcium-47 sorption by intestine of, effects of hyperthyroidism on, 22:10697
calcium-47 uptake and retention in, 22:40548
californium-252 distribution, excretion, and retention by, following intraperitoneal injection, 25:57922
cancer cell distribution in blood of, effects of endoxan, γ radiation, and prednisolone on, 22:15101
carbon uptake by lungs of, electromicroscopic study of, 25:4410
carbon-14 beta absorption in thick tissue sections of, calculation of correction factor for, 25:49094
carbon-14 clearance in serum of, following injection of labeled DTPA and EDTA, 23:50266(T) (AEC-tr-7089)
carbon-14 distribution in bones of, 22:14915(R) (TID-24217)
carbon-14 distribution in tissues of, following administration of labeled analogues and precursors of norepinephrine, effects of norepinephrine on, 21:26355
carbon-14 incorporation in lipids and proteins of homogenates of liver of, effects of avidin on, 25:13344
carbon-14 upake by cerebral glycogen in brain of, x, 25:4453
carbon-14-labeled alginate uptake by, from diet, 22:49262
carbon-14-labeled glycine incorporation into tissues of, effects of strontium-89 on, 24:16955
carbon-14-labeled palmitate metabolism in lungs of, effects of breathing nitrogen dioxide on, 25:13356
carbon-14-labeled tetraphenylporphinesulfonate distribution in tissues of, 22:8447
carbon-14-monoxide content in breath of, after injection of carbon-14-glycine in, radiochemical determination of, 21:12753 (UCRL-16898, pp 1-10)
carcinogenesis in, by dimethylaminoazobenzene, synergistic effects of cerium-144 and praseodymium-144 on, 21:14706 (BNWL-280, pp 17-18)
carcinogenesis in, effects of nickel carbonyl on incidence of, 22:6216(R) (ORO-3461-9)
carcinogenesis in, effects of salt stress on, 25:4459 (UCLA-12-782, pp 23-47)
carcinogenesis in, induced by hydrocarbons, 21:38858 (UCRL-50269)
carcinoma growth in tissues of, effects of x radiation on transplanted Guerin, 21:18154
carcinoma growth in, effects of radiotoxins on, 24:34764
carcinoma growth in, effects of x-irradiated bone marrow on, 22:25862
carcinomas of, following simultaneous treatment with chemical carcinogens and x radiation, 21:8976
cardiac hypertrophy in, turnover of mitochondrial constituents during, 24:53011 (ACRH-1000-199)
cardiac insufficiency in, effects of cobalt chlorides on, 23:40585
cardiac muscle contraction of, effects of caffeine, nitrates, and uranyl ions on, 22:10713

cation accumulation in skeleton of pregnant, calcium and strontium, 24:41736
cation balance in, effects of potassium on, 22:21460(R) (COO-1171-82)
cation metabolism in, during lactation, calcium and strontium, 24:41736
cell development in cerebellum of, use of tritium for autoradiographic study of, 23:33835(R) (PU-2000(51))
cell phase time in erythrocytes and sarcoma cells in tritium tracer study of effects of colcemid on, 24:5973
cerium-141 removal from blood serum of, by chelating agents, 24:36689
cerium-144 accumulation in organs of, following intratracheal administration, effects of dose on, 25:23959(T) (AEC-tr-7195, pp 102-10)
cerium-144 content in tissues and urine of, DTPA extraction method for accessing, 25:46699
cerium-144 distribution in fetal and newborn, following administration during pregnancy, 22:10675 (BNWL-480, pp 21-54)
cerium-144 distribution in fetal, neonatal, and pregnant, 22:30950
cerium-144 excretion by, use of DTPA to speed, 21:16282
cerium-144 incorporation in adrenal cortex of, effects of, on mitosis, 24:862
cerium-144 metabolism by, after administration via mouth or skin, 23:22157(T) (AEC-tr-6944, pp 61-6)
cerium-144 metabolism in, 23:11987 (SZS-11/68)
cerium-144 metabolism in, 23:9867
cerium-144 metabolism in partially hepatectomized, 21:34594
cerium-144 metabolism in, effects of carrier on, 24:21185(R) (JAERI-5021)
cerium-144 metabolism in, effects of citrate content on, 24:4556
cerium-144 metabolism in, effects of dietary dimethylaminoazobenzene, ethionine, and N-2-fluorenyldiacetamide on, 21:14526 (BNWL-280, pp 18-19)
cerium-144 metabolism in, effects of epinephrine, diuretics, EDTA, or phosphates on, 22:12787
cerium-144 metabolism in, effects of sex on distribution and retention, 21:379
cerium-144 metabolism in, following injection, effects of carrier on, 24:39422
cerium-144 removal from, effects of deferoxamine, alone and combined with DTPA, on, 21:14557 (BNWL-280, pp 81-3)
cerium-144 removal from, using DTPA, effects of late application on, 25:32410
cerium-144 sorption by intestines of, effects of barium sulfate, calcium fluorite, EDTA, espatite-1, lead sulfate, and turfite on, 22:8481
cerium-144 sorption by skin of, 21:1717
cerium-144 sorption by, effects of uv irradiation on, 23:22157(T) (AEC-tr-6944, pp 61-6)
cerium-144 uptake by fetuses of, cross-placental, 21:38815(R) (BNWL-293)
cesium metabolism in, effects of age, adrenalectomy, castration, sex, and sex hormones on, 25:6613(T) (AEC-tr-7169, pp 153-70)
cesium metabolism in, tracer studies of, 22:25762
cesium-131-labeled cesium chloride and cesium acetate distribution in, use of spark chamber for sequential imaging of, 21:26547
cesium-134 biological half-life in, effects of ammonium chloride and potassium content of diet on, 24:2547 (NYO-4039-1, pp 47-52)
cesium-134 deposition in muscles and organs of, autoradiographic analysis of, 25:24023
cesium-134 distribution and retention in, effects of age on, 22:36163
cesium-134 distribution in conceptus of pregnant, following injection, 25:55114
cesium-134 excretion by, effects of chelating agents on rate of, 21:28388
cesium-134 excretion in feces of, effects of cyanoferrates on, 22:40522
cesium-134 metabolism by, effects of potassium, rubidium, and sodium content of diet on, 22:28341
cesium-134 metabolism in cotton, effects of acute or chronic ingestion on, 23:9904 (ORNL-4316, pp 71-160)
cesium-134 metabolism in, effects of age and body size on, 24:25377
cesium-134 metabolism in, effects of temperature on, 22:6772 (ORNL-4168, pp 61-118)
cesium-134 removal from muscles of, use of salts of ferrocyanic acid for, 22:4618
cesium-134 retention by, before and after weaning, 24:9750
cesium-134 retention by, effects of age on, 22:28279 (NYO-2147-13, pp 56-7)
cesium-134 retention by, effects of weaning on, 22:28280 (NYO-2147-13, pp 58-63)
cesium-134 retention by, tracer use of, 22:14914 (ORNL-TM-2069)
cesium-134 retention in cotton, determination of respiration rates by, 23:20101
cesium-134 retention in, combined effects of age, sex, and temperature on, 25:16007
cesium-134 retention in, effects of dietary potassium on, 21:26409(R) (COO-1171-62)
cesium-134 retention in, effects of propythiouracil and L-thyroxine on, 25:4450
cesium-134 uptake and excretion by cotton, use of labeled fallout simulants and vegetation to study, 23:47926
cesium-134 uptake by cotton, from fallout simulant and vegetation, 23:20083 (ORNL-TM-2466, pp 18-39)
cesium-137 accumulation in heart muscle of, in comparison with potassium, mechanism of, 25:46700
cesium-137 accumulation in tissues of cotton, 25:21620 (ORNL-4634, pp 1-20)
cesium-137 accumulation in tissues of, following inhalation of labeled clay particles, effects of zymosan on, 23:31608 (LF-39, pp 129-35)
cesium-137 content of cotton, in Southeast USA during 1969, 25:18935(R) (ORO-3905)
cesium-137 content of muscles of, effects of potassium aspartate or potassium chloride on, 22:43249
cesium-137 distribution in amniotic fluid, embryos, organs, and placenta of pregnant, 25:16024
cesium-137 distribution in tissues of, 21:17981
cesium-137 excretion by, effectiveness of alkali metal and ammonium ferrocyanides for increasing, 25:24021
cesium-137 excretion by, effects of diet on rate of, 23:38431
cesium-137 excretion in, combined effects of prussian blue and pilocarpine on, 25:26583
cesium-137 metabolism and toxicity in, 21:28585(R) (BNWL-247)
cesium-137 metabolism by, effects of ACTH on, 22:14927
cesium-137 metabolism by, effects of environmental temperature and potassium feeding on, 23:6362
cesium-137 metabolism by, following intraperitoneal injection, effects of starvation on, 23:43665
cesium-137 metabolism in, 21:39322 (CEA-R-3108)
cesium-137 metabolism in, 21:26554(R) (BNWL-370)
cesium-137 metabolism in adult, prenatal, and suckling, 24:576
cesium-137 metabolism in adult, prenatal, and suckling, following intravenous injection, comparison of, 23:43679
cesium-137 metabolism in gravid, lactating, and normal, effects of ferricyanoferrate on, 23:2850(T) (LA-tr-68-10)
cesium-137 metabolism in organs of, 24:11905 (EUR-4281)
cesium-137 metabolism in, after inhalation as aerosol, 21:17951(R) (LF-33)
cesium-137 metabolism in, determination by compartment models, 23:17893(T) (AEC-tr-7030, pp 119-30)
cesium-137 metabolism in, during gestation and lactation, effects of ferric cyanoferrates on, 22:30980
cesium-137 metabolism in, effects of age on, 22:10675 (BNWL-480, pp 21-54)
cesium-137 metabolism in, effects of injection-route on, 21:12951(R) (LA-3610)
cesium-137 metabolism in, methods for monitoring, 21:17981
cesium-137 removal from body of, effectiveness of administration of Prussian blue for, 25:21738
cesium-137 removal from, after ingestion, effectiveness of ferric cyanoferrate for, 23:35721
cesium-137 removal from, effectiveness of beet extracts, iron ferrocyanides, and sodium fluorides for, 23:35713
cesium-137 retention by, combined effects of pilocarpine and Prussian blue on, 24:31831
cesium-137 retention by, effects of age, sex, and weight on long-term, 22:6714(R) (LF-35)
cesium-137 retention in bones of, 22:47460
cesium-137 retention in muscles, organs, and whole body of, 21:22352
cesium-137 retention in young, effects of lactose, potassium, and thyroxine on, 24:2563
cesium-137 retention in young, effects of prolonged breast feeding on, 24:2562
cesium-137 retention in young, factors affecting, 24:39456 (NIRS-8, pp 63-79)
cesium-137 retention in, effects of age on whole-body, 24:11924
cesium-137 retention in, effects of potassium content of diet, and temperature on, 22:10675 (BNWL-480, pp 21-54)
cesium-137 transfer by placenta to fetuses of, 22:38329
cesium-137 uptake and distribution in, following inhalation of labeled fused-clay particles, 23:31607 (LF-39, pp 126-8)
cesium-137 uptake by cotton, from simulated fallout, accumulation and dose from, 25:21631 (ORNL-TM-2983, pp 93-105)
cesium-137 uptake by fetal, in relation to ionic placental barrier, 24:27518
cesium-137 uptake by fetuses of, cross-placental, 21:38815(R) (BNWL-293)
cesium-137 uptake by organs of, in relation to potassium content, 23:788
chelating agents in, toxicity of, 21:22303
chromium-51 distribution in bones of, following intravenous injection of labeled alloxantin, 25:26590
chromium-51 sorption in gastrointestinal tract of, 21:39340
chromium-51 uptake by bone tissue in, following injection of β-glycerophosphate, 23:29326
chromosome aberrations induced in, by extracts from irradiated tissues, 21:43361
clearance of cesium-134-labeled ceramic particles in respiratory tract of, 21:32558 (CONF-661018, pp 98-116)
cobalt-58 distribution in tissues of, 21:12758
cobalt-60 1-nitroso 2-naphthol chelate metabolism in, following intravenous administration, 25:10958
cobalt-60 content of organs in, following single ingestion, calculation of equilibrium dose rate to human organs using, 25:35116
cobalt-60 retention by organs of, comparative study of effects of penicillin compounds on, 23:50281
cobalt-60 retention by, long-term, 22:51305 (LA-3848, pp 75-96)
cobalt-60 retention in, following injection, whole-body, 25:46708
collagen content in lungs of, effects of chronic ingestion of cyanide on, 22:10825 (BNWL-480, pp 55-83)
collagen precursors in lungs of, effects of cyanide-treated drinking water on, 21:28585(R) (BNWL-247)
compensatory hyperplasia in, effects of cystamine on x-ray inhibition of, 21:8944
contamination in, by actinide elements, effectiveness of deferrioxamine and DTPA for removing, 21:14669
content of cystamine, cysteamine, and mixed disulfides in tissues of, at early time-intervals following injection of cystamine at radioprotective doses, 24:46622
content of DNA, RNA, proteins, and xanthine oxidase in organs of, effects of uranyl nitrates on, 23:50322
content of lipids in liver of anemic, irradiated and treated by antibiotics and blood transfusions or busulfan, 21:6452
copper binding to globulins in blood of, effects of cysteine on, 22:19387
copper content in liver of, with ligated bile ducts, 23:4567
copper metabolism by liver tissues of, mathematical model for, 21:20091
copper-64 distribution in tissues of, effects of iron on, 21:12755
copper-64 metabolism in blood and liver of, effects of copper content of diet on, 24:34049
copper-64 sorption by, comparison of biliary, chelated, and ionic forms in, 23:50308
copper-64 sorption from gastrointestinal tract of, effects of dose on extent and rate of, 24:34047
copper-64 sorption in, effects of iron and molybdenum on, 21:12755
copper-67 retention in, effects of mestranol and norethindrone on, 23:35601 (ORAU-107, pp 237-41)
corticosteroid content in adrenal glands and blood of, effects of cysteamine on, 22:31170
curium distribution in liver of, following injection, tracer study on, 25:37720 (EUR-4612, pp 205-22)
curium-242 metabolism and distribution in, following injection, 25:6619(T) (AEC-tr-7178)
curium-242 removal from tissues of, following intramuscular injection, effectiveness of DTPA for, 25:6619(T) (AEC-tr-7178)
cystamine distribution in intestines and kidneys of, effects of 5-methoxytryptamine on, 25:29554
cystamine excretion in urine of, effects of 5-methoxytryptamine on, 25:29554
cytochrome P-450 synthesis in liver of, inhibition of phenobarbital-induced, by nickel carbonyl, 22:6216(R) (ORO-3461-9)
damage to bone marrow in, given Endoxan, recovery from, 21:6625
decontamination of skin of, contaminated with cerium-144, effects of ultrasonic treatment on, 21:1759
deuterium exchange in muscle tissue of, effects of health state on, 21:34615
deuteron emission from liver and epitheliomas tissues of, 23:45791
development of Fasciola hepatica in liver of, following x-irradiation of metacercariae, 21:22745
development of fetuses in, histopathological study of teratogenic effects of purine analogs on, 21:39446(R) (NYO-3777-7)
development of hepatomas in, x-irradiated prior to administration of deithylnitrosamine, 21:6694
development of hypertension in, factors affecting, 21:11002 (BNL-10722)
development of immunologically competent cells in, method and detection of, 21:11076
development of nerve cells in brain of young, 21:22652(R) (MIT-3045-30)
development of tumors in subcutaneous tissues of, following implantation with γ-irradiated polycaprolactam discs, 23:22233
development of, effects of γ irradiated wheat in diet on, 21:26710
diaphrams from, effects of divalent cadmium and uranium ions on, contraction duration and electric activity of isolated, 24:39579
diet of, effects of inclusion of gamma-irradiated apples, pears, and strawberries on wholesomeness of, 24:9977 (TID-25230)
diiodotyrosine synthesis in thyroid of, tracer study of, 21:22262
distribution of carbon-14-labeled thiamine in brain, heart, kidney, and liver of growing, 23:2769
distribution of europium-152 chloride aerosols in, after inhalation or intratracheal administration, 21:12751(R) (TID-23456)
distribution of iodine-131-labeled albumin in brain of, effects of ligation of carotid artery on, 21:43341
distribution of plutonium-239-labeled PuO_2 in lungs of, using autoradiography, 23:12035
distribution of sulfur-35-labeled fluorine disulfonamide derivatives in, effects of transplants of Walker carcinosarcoma on, 21:32697
distribution of tritium-labeled benzo(a)pyrene in organs of, following intraperitoneal injection, 23:50313
DNA and RNA synthesis in thymus gland of, effects of radioprotective and radiosensitizing drugs on, reaction mechanisms for AET, cysteamine, 2-mercaptoethanol, and penicillamine, 25:4592
DNA synthesis in epithelial tissues of, autoradiographic study of diurnal variations in, 24:31796
DNA synthesis in spleen and thymus of, effects of AET and cysteamine on, 25:4596
dosimetry of cobalt radioisotopes in, following intraperitoneal, intravenous, and oral administration, 22:43263
dosimetry of internal organs of, thermoluminescent, 21:10899
drug metabolism in, performance of liquid scintillation counters in tracer studies of, 25:46667
dysprosium-159 distribution and retention in, effects of nitrilotriacetic acid on, 23:35596 (ORAU-107, pp 133-5)
ecology at Eniwetok Atoll, 22:30417(R) (TID-24205)
ecology of kangaroo, at Nevada Test Site, 21:34628
ecology of populations of, at Eniwetok Atoll, 23:35683(R) (SAN-226-4-X)
EDTA chelates distribution in bones and blood of, radioisotope tracer studies of, 24:29622

effects of AET on mitotic rate of ascites tumor cells from, 21:1781
effects of chlormethine on content of deoxyribonucleic acid in, tissues of, 21:8690
effects of chlormethine on deoxyribonuclease activity in, tissues of, 21:8690
effects of chronic administration of serotonin on hematopoiesis in bone marrow of, 21:3420
effects of deposited europium-152 aerosols on pathology of, 21:12751(R) (TID-23456)
effects of gamma processed fish on, following ingestion over three generations, 25:58162
effects of γ-irradiated potatoes on, 21:16556
effects of γ-irradiated potatoes on, 21:16557
effects of hormones on life span of irradiated, 21:8885
effects of inhaled rare earth oxides in, pathological, 21:10242(T) (TT-65-50023/5, pp 126-32)
effects of intraperitoneal injections of polonium-210 on, 21:4865
effects of linear acceleration, radiation, and vibration as sources of stress on, 21:9004
effects of monoethanolamine on metabolism in, 21:8852
effects of partial hepatectomy of, on lipid metabolism in liver, 21:8940
effects of radioisotopes on antibody production in bone marrow of, 21:10742
effects of radioprotective compounds on function of gastrointestinal tract in, 21:16374(T) (JPRS-38272, pp 296-7)
effects of triethylene melamine on content of deoxyribonucleic acid in, tissues of, 21:8690
effects of triethylene melamine on deoxyribonuclease activity in, tissues of, 21:8690
effects of TSH in, on biosynthesis of diiodothyronine and thyronine, 21:8689
effects of turpentine-induced inflammations in, on plasma iron turnover, 21:8735
effects of whole-body radiation on glutathione content of liver and spleen, 21:426
electrolyte transport in intestines of, effects of taurocholic acid on, 22:10824 (BNWL-480, pp 1-19)
element content in heart and liver of, effects of choline-deficient diet on trace, 21:36484
encephalography of, effects of thorazine on, 21:10951
endoxan metabolism in, radioactive, 21:26343
enzyme activity in kidneys of, effects of uranyl nitrate on, 21:16279
enzyme activity in liver mitochondria of, effects of AET, chlorpromazine, and imipramine on, in relation to radioprotective mechanism of neurotropic agents, 24:34391
enzyme activity in liver of, effects of endotoxin and Thorotrast on, 23:31619
enzyme synthesis in liver of, effects of actinomycin D on, 22:16986
enzyme synthesis in pathogen-free, effects of growth hormone on, 22:28287 (ORNL-4100, pp 160-4)
ephedrine metabolism by, reverse isotopic dilution method for analysis of, 22:16976
erythropoiesis in normal irradiated, effects of 19-nortestosterone phenylpropionate on, 21:16289
erythropoiesis of normal and irradiated, effects of hydrocortisone on, 21:16290
estradiol accumulation in nuclei of target tissues in, tritium tracer study of, 23:35591
europium-152, -153, and -154 retention following inhalation of labeled europium oxide, 25:49083
excretion of trace elements by, effects of DTPA on, 21:18008
extracts from liver of, effects of, on cleavage of glyceryl ethers, 21:34680 (TID-23834)
fallout uptake from atmosphere by, in Japan, effects of nuclear explosions in China on, 21:39432
fatty acid synthesis in liver of, following treatment with carbon chlorides or ethionine, protective effects of cysteine against, 25:4600
fatty acid synthesis in lung tissues of, mechanism of, 21:22772
feeding patterns of populations of, on Eniwetok following nuclear testing, 25:46771
fibrillogenesis in regenerating tendons of, use of electron microscopy for determining, 22:28272 (ANL-7278, pp 185-218)
fibrinogen generation following thrombin-induced defibrination in, selenium-75-labeled, 21:22282
fission product metabolism in, unseparated uranium, 22:8474
fission product metabolism in, unseparated uranium, 22:8473
fluid levels in, use of low-level beta radiation for measurement of, 21:28379
fluorine-18 uptake from circulating blood by bones of, 24:29696 (UCRL-18793, pp 43-51)
fluorine-18-labeled fluoroborate in, distribution of, 21:26505
frequency of heartbeat in, effects of anions and cations produced in air by krypton-85 on, 21:24559.
function of thyroids in, effects of thiocyanate on intensely stimulated, 23:43660(R) (ORO-1643-92)
fused clay particles in, following inhalation, model for retention of cesium-137-labeled, 24:34020 (LF-41, pp 94-100)
gallium-67 accumulation in cytoplasm of tumors in, autoradiographic study of, 24:14408
gallium-67 distribution in tissues of, effects of stable gallium on, 23:35594 (ORAU-107, pp 125-9)
gallium-67 distribution in, effects of stable gallium and time on, 22:51307 (ORAU-106, pp 105-34)
gallium-67 localization in cells of tissues of, electron microscopic autoradiography of, 25:39796
gallium-67 uptake by malignant tumors in, effects of carriers on, 24:34067
gallium-68 binding by blood serum protein in, 22:51307 (ORAU-106, pp 105-34)
gamma dosimetry in liver of, after incorporation of cesium-137, lithium fluoride thermoluminescent dosimeter for, 23:38336
gamma globulin from, iron-59 radioimmunoelectrophoresis method for purification of 7S, 24:16945
gastrointestinal tract function studies in, use of iodine-131- or cerium-144-labeled inulin for, 21:14673 (BNWL-280, pp 12)
genetics of, 21:20117(R) (NP-16482)
glucose metabolism in eviscerated and nephrectomized, comparison of carbon-14 and tritium tracer studies on, 25:26602
glucose metabolism in, use of concurrent pathways for, 22:20999(R) (RLO-1387-8)
glucose metabolism in, with cirrhosis, carbon-14 tracer studies on incorporation of precursors of, 25:13506
glycogen metabolism in, effects of glucagon and hydrocortisone on, 22:28623 (ANL-7278, pp 132-43)
gold-198 accumulation in tissues of, effects of age and tumors on, 23:38418
gold-198 binding by lymph nodes and thymus of, colloidal, 23:35614
gold-198 content and distribution in organs and tissues of, effects of acidity, medium, and particle dispersion on, 25:23971(T) (AEC-tr-7195, pp 197-208)
gold-198 metabolism by, effects of method of administration on, 23:22155(T) (AEC-tr-6944, pp 44-53)
gold-198 metabolism in, effects of pharmacological agents on, 21:36624
gold-198 uptake by organs in, effects of DDT induced plasmacytosis on, 21:8709
gold-198 uptake by spleen of, in liver scanning mechanism in, 23:22191
growth and reproduction of germ-free, comparison of effects of steam-sterilized and γ irradiated food on, 25:47073
growth of teeth of, effects of strontium on, 21:22363
growth of, effects of γ-irradiated diets on, 21:32813
growth of, effects of ion-exchange-processed-milk on, 21:34663
growth of, effects of irradiated foods in diet on, 21:26725
growth of, effects of strontium-90 decontaminated milk on, 22:15008
growth retardation of male, effects of irradiated strawberries on, 21:20459
health of, effects of eating irradiated foods on, 24:4708
health of, effects of irradiated foods in diet on, 21:28712
heart beat of, effects of anesthetics and polarized air ions on, 21:26576
heart of, effects of strontium on conduction and excitability of, 21:12784
heart of, effects of strontium on contractibility of isolated, 21:12785
hematology of, effects of cobalt on erythropoiesis, 21:10733
hepatoma growth in, inhibitory effects of mixtures of irradiated liver or tumor homogenates and pertussis vaccine on, 22:6709 (ACRH-1000-21)
hexose transfer in intestine of, effects of oxygen abundance and uranyl nitrate on, 21:24364
histology of mucosa of intestine in, effects of bile on, 21:14708 (BNWL-280, pp 10-11)
histology of stomach cells in, effects of vitamin B_{12}-deficient diet on, 21:34622
histopathology of organs of, effects of irradiated strawberries on, 21:20459
hormone activity in, testing of FSH and luteinizing, 24:5975
hormone secretion by thyroid of, determination of rate of, 22:21404 (COO-301-150)
hypertension in, genetic study of, 22:14906 (BNL-50057, pp 123-37)
hypoxia in, turnover of mitochondrial constituents during acute, 24:53011 (ACRH-1000-199)
immune reaction to transplants of laser-irradiated neoplastic or normal autogenous tissues in, 23:50384
immune reactions in x-irradiated, effects of bromodeoxyuridine- or tritium-labeled thymidine-treated lymphocytes, 23:43848
immune reactions in, effects of age and thymectomy on, 21:23785 (ARCH-26, pp 36-41)
immune reactions of, to repeated infestations of γ-irradiated Strongyloides larvae, 23:50825
immune reactions of, to tumors, use of γ-irradiated transplants for induction of, 23:47987
immune reactions to doubly incompatible antigens in, effects of pre-immunization with incompatible antigens on, 22:19235(R) (COO-1282-1)
immune reactions to γ-irradiated nematode larvae in, 23:50382
immune reactions to implants of irradiated homogenates of hepatomas and sarcomas in, 23:804
immune reactions to injected spleen and thymus tissue from adult, in radiation neonatal mouse-rat chimeras, 21:22711
immune reactions to Plasmodium berghei following inoculation with γ-irradiated parasitized blood, 24:12013
immune reactions to transplants of electron-irradiated Ehrlich ascites cells, 24:25407
immune response in, effects of antigen dose on, 23:50375
immune response of γ-irradiated, following injection of primed cells, 23:50373
immune response of, to infections with x-irradiated Nippostrongylus brasiliensis, 21:16485
immune system in, response of, to fluid tetanus toxoid, effects of lymphocyte-depletion on, 21:22477 (BNL-994, pp 124-39)
immunity against malaria following inoculation with irradiated erythrocytes parasitized by Plasmodium berghei, 24:50789
immunity produced in, by exposure to irradiated erythrocytes parasitized by Plasmodium berghei, 22:38473
immunity to encephalomyelitis, use of x-irradiated hamster test for determining, 23:2770
immunity to schistosomiasis induced in, by x-irradiated Schistosoma cercariae, 21:41488
immunization against Babesia rodhaini using γ-irradiated infected erythrocytes, 25:2539
immunization against Nippostrongylus by administration of x-irradiated larvae, 24:12012
immunization against trypanosomiasis using γ-irradiated trypanosomes, 24:50788
immunoglobulin and immunoglobulin subunit distribution in lymph nodes of, iodine-125 tracer study of, 23:26645
immunoglobulin and subunit retention in footpads and lymph nodes of, effects of molecular size on, 23:26644
incidence of thermal neutrons in liver of epithelioma-bearing rats, 23:45913
indium-113 accumulation in lungs of, following intravenous administration of labeled macroaggregated albumin, 23:31831 (CNEA-237)
indium-113 binding by blood serum protein in, 22:51307 (ORAU-106, pp 105-34)
indium-113 distribution in tissues of, effects of particle size and pH on, 25:4437
indium-113 distribution in tissues of, effects of buffer on, 24:50685 (TID-25500)
indium-113 distribution in tissues of, following administration as colloids or iron hydroxide aggregates, 24:44506
indium-113 distribution in, effects of gallium citrate on, 22:51307 (ORAU-106, pp 105-34)
indium-114 distribution in, effects of iron citrate on, 22:51307 (ORAU-106, pp 105-34)
induced mammary tumors in, by DMBA, effects of adrenalectomy and pituitary transplants on, 23:38523(R) (NYO-4052-1)
infection with cobalt-60 γ-irradiated Trypanosoma, 24:34166
infectivity of DNA from parvovoris ratti to, 23:4508(T) (ORNL-tr-1798)
infectivity of γ and x-irradiated Helminth larvae in, 21:16456
ingestion of γ-irradiated carrots by, effects of, on growth, histopathology, longevity, and reproduction, 24:23367
ingestion of γ-irradiated feeds by, effects of, 24:48789
ingestion of γ-irradiated foods by, effects of, on incidence of intercurrent diseases and reproductive function, 24:23411(T) (ORNL-tr-2307)
ingestion of γ-irradiated fruits by, pathological effects of, 22:43493 (NYO-3422-1(Vol.1))
ingestion of γ-irradiated fruits by, pathological effects of, 22:43495 (NYO-3422-1(Vol.2))
ingestion of γ-irradiated onions by, effects of, on blood chemistry, 21:43549
ingestion of γ-irradiated onions by, genetic effects of, 21:43545
ingestion of γ-irradiated onions by, pathological effects of, 22:43496 (NYO-3422-1(Suppl.)(Vol.2))
ingestion of γ-irradiated onions by, pathological effects of, 22:43494 (NYO-3422-1(Suppl.)(Vol.1))
ingestion of γ-irradiated or heat sterilized food by uv-irradiated, comparative study of, 23:957
ingestion of γ-irradiated sucrose solutions by, effects of, on metabolism, 23:35977
ingestion of γ-irradiation onions by, effects of, on clinical condition, 22:23693 (AECL-2706, pp 114-21)
ingestion of irradiated food by, effects of, 22:21642
ingestion of irradiated food by, effects of, on thymus involution, 22:45743
ingestion of irradiated foods by, effects of, on growth and reproduction, 23:12252(T) (ORNL-IIC-14, pp 67-81)
ingestion of irradiated foods by, evaluation of effects of, 22:26018
ingestion of irradiated foods by, toxic effects of, 22:43514
ingestion of irradiated shrimp and wheat by, effects of, on growth and reproduction, 23:35969
ingestion of uv-irradiated linolenic acid by, effects of, on enzyme activity and incidence of hepatomas in liver, 23:29389
inhalation of plutonium-239-labeled plutonium oxide particles by, localization following, 24:50687(R) (UH-235-P-8-X-3)
injection of bone marrow from, into whole-body x-irradiated mice, chimera production by, 21:22710
injurious effects of enzymes on membranes of γ-irradiated erythrocytes of, 21:6668
interactions of fast neutrons with hydrogen atoms in kidney and liver neoplasms in, 23:45937
interactions of fast neutrons with hydrogen nuclei in liver of, effects of beryllium administration on, 23:45914
intestinal flora of, effects of bile on, 21:26555 (BNWL-SA-1143)
intestine of, content of coliform bacteria in, effects of bile on, 21:14772 (BNWL-280, pp 8-10)
intestine of, effects of sodium on bioelectrical potential of, 21:14538 (BNWL-280, pp 4-8)
intestines of, circulation in small, effects of drugs on, 21:16287
intestines of, sorption of tritium-labeled water in small, effects of drugs on, 21:16287
iodine content of glands, ovaries and visceral organs of, effects of infectious disease on, 22:40681
iodine content of mitochondria and nuclei in liver and muscle of, effects of hypothyroidism and thyroxine on, 23:6399
iodine content of thyroid of, activation analysis method for determining, 22:49270
iodine distribution in thyroid cells of, autoradiography and neutron activation analysis of, 24:5974
iodine metabolism in, effects of age on, tracer study, 21:14528 (BNWL-280, pp 34-5)
iodine metabolism in, with hyperplastic thyroids, effects of hypothalamic lesions on, 23:43660(R) (ORO-1643-92)
iodine-125 metabolism in thyroid gland of, effects of hypophysectomy on, 22:40517(R) (ORO-1643-89)
iodine-125 uptake by thyroid gland of, effects of lithium salts on, 24:36686

iodine-125-labeled analogs of 1,1-dichloro-2-(o-chlorophenyl)-2-(p-chlorophenyl)ethane distribution in tissues of, 22:36337
iodine-125-labeled chloroquine analog metabolism by, evaluation of, 22:10820
iodine-127 uptake by thyroid gland of, effects of diet and morphology on, 21:30791
iodine-131 clearance from thyroid of, effects of 4-thiazolidinecarboxylic acid on, 21:14524 (BNWL-280, pp 85-6)
iodine-131 content of thyroid gland of, following injection, effects of homogenization and hydrolysis on accuracy of in vitro determinations of, 25:51989
iodine-131 content of thyroid gland of, in vitro and in vivo assay of, 24:50700
iodine-131 distribution in euthyroid, effects of testosterone propionate on, 23:29340
iodine-131 distribution in thyroid gland of intact, in relation to distribution of stable iodine, quantitative study of, 25:493
iodine-131 distribution in thyroid gland of male, determined by compound-light and electron microscopy autoradiography, 21:8707
iodine-131 distribution in thyroid tissues of, 21:12766
iodine-131 distribution in tissues of, 21:41330
iodine-131 distribution in tissues of, effects of perchlorate on, 21:1719
iodine-131 effects on cholinesterase activity in, 21:20257
iodine-131 effects on thyroglobulin content of blood in, in relation to thyroid gland function, *β* and *γ*, 23:29387
iodine-131 effects on thyroid of, cytochemical, 21:26604
iodine-131 effects on, protective effects of methiomazole, methylthiouracil, potassium perchlorate, potassium thiocyanate, and sodium iodide against *β* and *γ*, 23:933(R) (NIRS-6)
iodine-131 metabolism and toxicity in, effects of age on, 24:34618 (BNWL-1050(Pt.1), pp 4.7-11)
iodine-131 metabolism by thyroid gland of, effects of age, diet, and season on, 24:560
iodine-131 metabolism by, effects on renal structure of *β* and *γ* from, 23:22164(T) (AEC-tr-6944, pp 113-21)
iodine-131 metabolism by, following endotracheal administration, 23:14277
iodine-131 metabolism in, 22:33778 (UCLA-12-640, pp 45-60)
iodine-131 metabolism in fetal, maternal, and placental tissues following ingestion by gravid, 24:23312 (CONF-690501-, pp 45-62)
iodine-131 metabolism in respiratory tract of, effects of drugs on, 22:431
iodine-131 metabolism in thyroid gland of, effects of melatonin and ovariectomy on, 22:30977
iodine-131 metabolism in thyroid gland of, effects of iodine-deficient diet on, 22:45386
iodine-131 metabolism in thyroid of, 22:14961
iodine-131 metabolism in thyroid of, effects of low dietary iodine intake on, 23:50276 (COO-1758-17)
iodine-131 metabolism in, after inhalation in aerosols, 21:17951(R) (LF-33)
iodine-131 metabolism in, following inhalation and intravenous injection, 24:25382
iodine-131 removal from blood of, estimation of phagocytic coefficient for, 25:10957
iodine-131 retention by, effects of age on, 22:10675 (BNWL-480, pp 21-54)
iodine-131 retention in hyperplastic and normal thyroids of, following injection in utero, 23:43660(R) (ORO-1643-92)
iodine-131 sorption by tumor-bearing thyroid glands of, effects of carnitine on, 23:43680
iodine-131 sorption in intestine of, by ion exchange materials following oral administration, 23:31745
iodine-131 uptake by blood plasma and uterus of ovariectomized, effects of progesterone on ratios of, 22:8472
iodine-131 uptake by body and thyroid of, effects of methylthiouracil and potassium iodides on, 22:19254
iodine-131 uptake by intestine of, effects of food deprivation and hypoxia on, 23:6346 (N-68-11141)
iodine-131 uptake by plasma and thyroid of castrated, effects of testosterone propionate and thiouracil on, 24:31832
iodine-131 uptake by submaxillary glands of, effects of adrenalectomy, hormones, sex, and thyroidectomy on, 22:12768
iodine-131 uptake by testes of, following subcutaneous injection, 23:16243
iodine-131 uptake by thyroid gland in, combined effects of light intensity on effects of melatonin and serotonin on, 24:19291
iodine-131 uptake by thyroid gland in, effects of adrenalectomy and cervical sympathectomy on, 24:2554
iodine-131 uptake by thyroid gland in, effects of codeine on, 23:29331
iodine-131 uptake by thyroid gland in, effects of dried thyroid ingestion and sex on, 25:26601
iodine-131 uptake by thyroid gland of, effects of age on, 21:38815(R) (BNWL-293)
iodine-131 uptake by thyroid gland of, effects of diet and morphology on, 21:30791
iodine-131 uptake by thyroid gland of, effects of fasting diet on, 24:19290
iodine-131 uptake by thyroid gland of, effects of hypophysectomy or vitamin E deficiency on, 23:35630
iodine-131 uptake by thyroid gland of, effects of thyrotropic hormone on, 21:34581
iodine-131 uptake by thyroid gland of, following pinealectomy, 22:47475
iodine-131 uptake by thyroid gland of, on high- and low-protein diets, effect of simultaneous injections of phosphorus-32 on, 21:24344
iodine-131 uptake by thyroid in hypophysectomized, effects of injections of estradiol on, 21:8685
iodine-131 uptake by thyroid of female and male, effects of castration and seasons on, 22:14966
iodine-131 uptake by thyroid of young, effects of maternal hypothyroidism on, 24:34048
iodine-131 uptake by thyroid of, during postnatal development, 23:20091
iodine-131 uptake by thyroid of, effects of adiphenine on, 21:28370
iodine-131 uptake by thyroid of, effects of mankozeb on, 23:29325
iodine-131 uptake by thyroid of, inhibition by liver extract, 21:17958
iodine-131 uptake in thyroid gland of, effects of injected adiphenine in rats, effect of 6-propyl-2-thiouracil in diet on, 21:24353
iodine-131-induced inflammations of salivary glands of, 21:6655
iodine-131-labeled albumin distribution in heart and lungs of, 22:12794
iodine-131-labeled analogs of 1,1-dichloro-2,2-bis(chlorophenyl)ethane metabolism in, evaluation of, 22:10819
iodine-131-labeled chloroquine analog metabolism by, evalution of, 22:10820
iodine-131-labeled methyliodide metabolism in, 24:39419 (NIRS-8, pp 53-61)
iodine-131-labeled normal globulin mobility in blood-brain barrier of, immunological analysis of, 21:26337
iodine-131-labeled sodium iodide in tissues of, removal of, using ion exchange resins, 21:4806
iodine-131-labeled thyroidal iodide transport in, effects of actinomycin on, 22:38224
iodine-131-labeled thyroxine in thyroid-ablated, effects of thyroxine on half-life of, 23:35600 (ORAU-107, pp 230-3)
iodine-131-labeled thyroxine retention in agar pellets implanted in hypothalamus of, 25:491
iodine-131-labeled triiodothyronine distribution in, effects of ACTH, adrenalin, AET, and cysteine on, 22:33895
iodine-131-labeled triiodothyronine uptake by, protective effects of AET against, 22:21551
iodine-132 incorporation by thyroglobulin of, effects of propylthiouracil on, 22:14949
iridium-192 metabolism in, following intraperitoneal, intravenous, and oral administration, 25:29450
iron oxide particles in lungs of, removal of, effects of atropine sulfate treatment on, 21:14532 (BNWL-280, pp 64-5)
iron-59 and plutonium distribution in livers of, following intravenous injection, use of gel permeation chromatography for determining, 24:31817
iron-59 distribution in lungs of, following intratracheal administration, 22:21450
iron-59 distribution in tissues of, 22:21450
iron-59 distribution in tissues of, following intratracheal injection in insoluble or soluble compounds, 22:21605
iron-59 distribution in tissues of, following intratracheal injection, 22:21451
iron-59 excretion by, effects of CDTA combined with PVP on, 22:21456
iron-59 excretion by, effects of chelating agents on rate of, 21:28388
iron-59 excretion in, effects of CDTA, EDTA, and pectin on, 22:21455
iron-59 metabolism in, 22:6772 (ORNL-4168, pp 61-118)
iron-59 metabolism in cotton, in relation to cesium-137, 25:21621 (ORNL-4634, pp 21-52)
iron-59 metabolism in, effects of chelating agents on, 23:41225
iron-59 metabolism in, effects of diet on, 23:7937
iron-59 metabolism in, effects of dietary dimethylaminoazobenzene, ethionine, and N-2-fluorenyldiacetamide on, 21:14526 (BNWL-280, pp 18-19)
iron-59 metabolism in, effects of erythroprotein-injection and dietary protein on, 21:20072
iron-59 metabolism in, evaluation of effects of chelating agents on, 23:50298
iron-59 retention by, following ingestion of labeled barley and wheat, 22:45400
iron-59 transport and uptake by placenta in, effects of fetusectomy, maternal anoxia, and xanthine oxidase activity on, 24:23069 (CONF-690501-, pp 25-44)
iron-59 uptake by, with fatty livers, effects of pancreas extract on, 22:49244
iron-59-labeled iron ferricyanide transport through gastrointestinal tract of, 25:18887
isolation of low molecular weight RNA from ribosomes in liver cells of, 21:47053(T) (LA-tr-67-90)
isolation of RNA from brain of trained, effects of, on behavior of controls, 22:20976 (COO-825-34)
isotope sorption from intestine of, prevention of polonium-210 and uranium-238, 23:22275(T) (AEC-tr-6944, pp 670-7)
kidney cell proliferation in weanling, effects of renal work load on, 22:43349 (UCSF-10-P-2-39, pp 125-260)
L-glutaminase activity in kidneys of, effects of uranyl nitrate on, 22:38219
labeling of 5'-nucleotides in RNA of liver of, with phosphorus-32, 24:29625
lanthanum-140 excretion by, effects of DTPA on, 21:36596
lanthanum-140 metabolism in, determination of, by whole-body counting, 21:28395
laser plume of malignant and normal tissues of, analysis of free radicals in, 21:30770
lead-203 uptake and excretion by, effects of alginate and diet on, 24:14480
lead-210 distribution and retention in organs and tissues of, following intravenous injection, 25:26610
lead-210 distribution in, effects of calcium sodium salt of EDTA and time on, 21:24339
lead-210 excretion by, following intravenous injection, 22:38203
lead-210 metabolism by, 23:22188 (NYO-3086-8, pp V.1-9)
lead-210 metabolism in, 23:769 (ANL-7360, pp 68-149)
lead-210 metabolism in, review of, 23:22186 (NYO-3086-8, pp III.1-18)
lead-212 content of bronchial epithelium of, following inhalation, effects of caging on, 22:2506(R) (NYO-3086-7)
lead-212 distribution in, after inhalation of radon-220, 21:12749(R) (NYO-3086-6)
leucine aminopeptidase activity in serum of, effects of degranol poisoning and radiation on, 21:22538
leukemia transfer in, through cell injections, 22:23594 (LF-38, pp 108-12)
leukocytosis induced in, by blood transfusions from x-irradiated donors, 22:19414
leukopenic effects of Endoxan and Trenimon in, 21:22700
life span of intestinal cells of, use of tritium-labeled thymidine for determination of, 22:28621 (ANL-7278, pp 1-94)
lithium-6 content in blood plasma, kidneys, liver, lungs, and muscles in, effects of transplanted Walker carcinosarcomas on, 25:32346
lithium-6 content in metastases of carcinosarcoma in lungs of, autoradiographic studies on, 25:29443
lithium-6 distribution in organs and tissues of, following intraperitoneal and intravenous injections, 25:13350
litter size of, following subcutaneous administration of cobalt-60 to parents, 23:38817
localization of estradiol in uterus of, autoradiography of frozen sections for subcellular, 23:11971 (CONF-671111-, pp 633-60)
localization of ornithine aminotransferase in liver of, using immunofluorescence, 24:41720 (ANL-7635, pp 115-53)
locomotor function in, following ablation of cerebellum by surgery or x radiation, 24:23342 (CONF-690501-, pp 739-54)
lymph scanning in, evaluation of silver-110-labeled oleate for, 22:33891
lymphocyte count after chlorambucil injections, effects of dietary casein on, 24:14604
lymphocyte population in, effects of uranyl nitrates on peripheral, 24:25369(R) (COO-1630-22)
lymphoma inducted in, by radiation leukemia virus, antigenic properties and content of type-C virus particles following, 24:23358
magnesium metabolism in, tracer study of, 21:45772(R) (ACRH-27)
manganese-54 distribution and excretion in rats, effects of chelating agents on, 23:29339
manganese-54 distribution in bodies of, following intravenous administration, 25:23970(T) (AEC-tr-7195, pp 192-6)
manganese-54 excretion by, effects of manganese disodium EDTA on, 21:20206
manganese-54 metabolism and toxicity in, following ingestion, 23:50329
manganese-54 metabolism in central nervous system of, following intraperitoneal injection, 23:45636
manganese-54 metabolism in, combined effects of DDTE, DTPA, and EDTA on, 25:32339
measurement of whole-body water in, using tritium dilution, 23:50297
mercury content in blood and kidneys of, neutron activation determination of, 25:18369
mercury radioisotope excretion by, effects of body burden on rate of, 23:33612
mercury-203 accumulation by kidneys of, 21:10804
mercury-203 content in chemical fractions of brain of, 21:14568
mercury-203 distribution and retention in, effects of dimercapto-1,2-propanol, DTPA, *β*,*β*-dimethyl cysteine, and EDTA on, 21:45498 (NP-16874)
mercury-203 distribution in brain tissues of, following inhalation in aerosols, 23:50310
mercury-203 distribution in organs of, 23:47944
mercury-203 distribution in, following inhalation, use of autoradiography to determine, 23:29334
mercury-203 excretion by, effects of chelating agents on rate of, 21:28388
mercury-203 excretion by, use of chelating agents for, 21:16294
mercury-203 injection into pregnant, effects of sodium selenite on transport across placenta following, 24:23073 (CONF-690501-, pp 137-43)
mercury-203 mobilization in kidney of, effects of BAL, DTPA, and EDTA on, 21:22291
mercury-203 uptake and excretion in, mechanisms for, 21:24328
mercury-203 uptake from milk by young, following intravenous injection of labeled neohydrin into mother, 24:11927
metabolism in atherosclerotic arteries of, use of activation analysis for study of, 22:30497
metabolism in bones of, effects of parathormone, thyrocalcitonin, and vitamin D on, 22:7939 (COO-1668-4)
metabolism in bones of, measurement of, using calcium-48 and carbon-14-labeled proline, 21:6417
metabolism in cell cultures from pituitary gland of, effects of hypothalamic extracts on oxidative, 22:12175(R) (NYO-3827-3)
metabolism in cotton, cesium-137 and iron-59 measurement of, 24:39463 (ORNL-4446, pp 76-112)
metabolism in cotton, phosphorus-32 tracer study of relation of oxygen consumption and environmental temperature to, 24:34230
metabolism in, effects of potassium on rate of, 22:21460(R) (COO-1171-82)
metabolism of acetate and pyruvate in thiamine-deficient, use of carbon-14-labeled carbon dioxide breath analysis to study, 23:29297 (UCRL-18832)
metabolism of amino acids in, effects of pyridoxine on, use of carbon-14 breath analysis to determine, 23:29297 (UCRL-18832)
metabolism of barium, calcium, radium, and strontium in, tracer studies of kinetics of, 23:38424

metabolism of β-glycerophosphates in, tracer study of, 23:6387
metabolism of calcium and phosphates in, effects of parathyroid hormone, thyrocalcitonin, and vitamin D on, 23:4493(R) (COO-1668-8)
metabolism of calcium and phosphates in, effects of adrenal hormones and parathyroidectomy on, 23:4867 (CU-2530-13)
metabolism of calcium and phosphorus in, isotopic techniques for determination of, 23:45209
metabolism of carbohydrates in brain of, effects of ultrahigh frequency electromagnetic fields on, 23:45663
metabolism of EDTA and DTPA in, carbon-14 tracer study of, 23:20103
metabolism of histidine in, effects of cyanocobalamin and folic acid on, use of carbon-14 breath analysis to determine, 23:29297 (UCRL-18832)
metabolism of injected 2-amino-4-(methylselenyl)-butyric acid, 21:20043
metabolism of iodine in, isotopic equilibrium studies of, 23:24123
metabolism of iodine isotopes in thyroid glands of, 21:12779
metabolism of iodine-131-labeled colloids by reticuloendothelial system of, 23:29293 (CEA-R-3240)
metabolism of iodine-131-labeled insulin in, effects of adrenalectomy and hormones on, 23:41209
metabolism of iodine-131-labeled methyl iodide in, effects of potassium perchlorate and sodium iodide on, 23:26673
metabolism of iodine-131-labeled thyroxine in tumor-bearing, 21:6402 (IA-1082, pp 203-15)
metabolism of iron-59-labeled iron oxide in, following inhalation, 21:10787
metabolism of lipids and proteins following ingestion of gamma irradiated beef, 25:55367
metabolism of lithocholic acid in, tracer study of, 21:22228 (ACRH-26, pp 70-84)
metabolism of liver lipids in ethionine-treated and normal, carbon-14 tracer study of, 23:41195
metabolism of minerals in, tracer study of effects of food intake and temperature on, 23:26656
metabolism of minerals in, with bone lesions, tracer study of effects of temperature on, 23:26657
metabolism of pentobarbital in liver of, effects of acute and chronic doses of methylnaphthalene and terphenyls on, 21:20027 (EUR-3254.e)
metabolism of phenobarbital in, effects of deuterium on, 21:45788
metabolism of proteins in, use of carbon-14 labeled arginine for analysis of, 21:36501
metabolism of rare earths in, following inhalation, 23:29313(R) (COO-1630-11)
metabolism of rare earths in, tracer study, 24:36713(T) (ANL-Trans-832)
metabolism of selenium in, with choline-deficient diet-induced fatty liver and cirrhosis, 21:8682
metabolism of shrimp proteins in, effects of γ-irradiation of food on, 23:954
metabolism of sulfobromophthalein sodium in, effects of estrogens on, 21:45772(R) (ACRH-27)
metabolism of sulfur-35-labeled glutathione in, effects of cycloheximide on, 23:16254
metabolism of sulfur-35-labeled methionine and selenium-75-labeled selenomethionine in, 24:50703
metabolism of thyroxine in, effects of excess iodide on, 23:2796
metabolism of water in, following ingestion of food and water from Colorado and Illinois, deuterium tracer study of, 24:48358
metabolism of, design of whole-body scintillation detector for studying, 22:6567
metabolism studies in, using carbon-14-labeled EDTA, 23:38401
methionine distribution in tissues of, effects of age on, 21:1772(R) (ORO-2401-8)
methionine metabolism in, tracer study using selenium-75-labeled selenomethionine and whole-body counting, 24:27514
microsomes from liver of, effects of cesium-137 and strontium-85 ions on determination of sedimentation velocity of, 21:10791
mineral content in bones of, direct photon absorption measurement of, 21:39323 (COO-1422-11)
mitochondria in liver of, effects of cysteamine on ultrastructure of, 24:7929
mitosis in cell populations of normal lens epithelium in, 21:28588(R) (COO-1024-23)
mitosis in taste bud cells of, effects of colchicine on, 22:49486(R) (NYO-3359-4)
molybdenum-99 distribution and retention in bones, teeth, and organs following subcutaneous injection, 25:26598
molybdenum-99 distribution in organs and tissues of, effects of administration route on, 25:23969(T) (AEC-tr-7195, pp 186-91)
mucociliary transport in trachea of, use of radiography to determine, 24:25369(R) (COO-1630-22)
Myleran in, protective effects of cystamine and cysteamine against, 21:26491
myocardial hypertrophy in, synthesis of collagin, myosin, noncollagenous protein and DNA during, 24:53012 (ACRH-1000-217)
neptunium-237 metabolism in, following intravenous injection, 21:34578
neptunium-237 toxicity in, 21:14541 (BNWL-280, pp 35-7)
neptunium-237 toxicity in, following intravenous administration, 25:13346
nickel carbonyl metabolism in, tracer study of, 22:6216(R) (ORO-3461-9)
nickel-63 distribution and excretion in, 23:2794
niobium-95 distribution and excretion in, following inhalation exposure, 21:20050
niobium-95 distribution in organs of, effects of administration route on, 25:6606(T) (AEC-tr-7169, pp 3-14)
niobium-95 distribution in tissues of, 21:14593
niobium-95 distribution in, following subcutaneous injection, autoradiographic determination of, 21:34570
niobium-95 localization in fibrosarcomas of male Wistar, 21:20270
niobium-95 metabolism by, 22:8475
niobium-95 metabolism by, following inhalation, assessment of hazards from, 22:40583
niobium-95 retention in, in comparison to dogs, mice, and monkeys following administration by different routes, 25:46704
nitrogen content of blood of, following administration of mercuric bichloride and uranium, 25:58099
nitrogen mustard effects on, effects of inorganic composition of diet on, 21:22735
oxidative phosphorylation in liver of, effects of cysteamine on, 24:7929
oxidative phosphorylation reaction in liver mitochondria of, effects of radioprotective compounds on, 22:25893
oxygen tension in brain of, effects of cystamine and serotonin on, 21:43452
oxygen tension in, effects of mexamine on, 24:34416
oxygen tension of, effects of sulfur-containing radioprotective agents on intrasplenic, 24:14527
oxygen uptake and respiration in tissues of, effects of cystamine, cysteamine, and cysteine on, 25:4595
oxytocin metabolite content of tissues of, method for tritium tracer study of, 22:49201
palladium-103 distribution in, following introduction into thigh muscle, effects of carrier on, 25:55112
palmitaldehyde metabolism in brain of, GLC analysis of carbon-14-labeled, 21:20033 (UCLA-12-612, pp 1-14)
parathyroid activity in, in relation to calcium and phosphate content of diet, 22:6201 (CU-2530-10)
particle deposition in lungs of, interpretation problems in, 23:31769
particle passage time through gastrointestinal tract of, effects of age and particle size on, 22:49331
particles in lungs of, clearance of, effects of cyanide on, 21:14544 (BNWL-280, pp 70-2)
passage of rhodium-106—ruthenium-106 tracer through gastrointestinal tract of, effects of age on, 23:50305
pathology of, after lithocholic acid ingestion, 21:22228 (ACRH-26, pp 70-84)
penetration of Thorotrast into brain spaces of, 21:6405
phagocytosis of cobalt oxide and thorium dioxide in reticulo-endothelial system of, 23:26648
phagocytosis of gold radioisotope colloids by reticuloendothelial system of, method for determining kinetics of, 24:48376
phagocytosis of plutonium oxide particles in peritoneal cavity of, effects of DTPA and particle size on, 22:10677 (BNWL-480, pp 99-106)
phagocytosis of plutonium-239-labeled plutonium oxide particles in peritoneal cavity of, effects of particle size on, 23:24533
phosphate content of blood of, effects of parathormone, thyrocalcitonin, and vitamin D on, 22:6200(R) (COO-1668-3)
phosphodiesterase activity in intestine of, effects of chlorambucil and myleran, 22:36399
phosphoglucomutase activity in blood, kidneys, and liver of, effects of uranyl nitrates on, 23:50319
phosphorus content in incisor teeth of, effects of calcium and strontium content in diet on, 21:41322
phosphorus uptake by brain phospholipids of, tracer study of, 21:10774
phosphorus-32 distribution in nucleotides of liver of, 23:31636
phosphorus-32 distribution in tissues of, 23:38436
phosphorus-32 excretion by irradiated, effects of pituitary hormones and synthetic lysine-vasopressin on, 21:12777
phosphorus-32 incorporation into pituitary gland of, effects of ovariectomy on, 23:41206
phosphorus-32 metabolism by tumor tissues in, in relation to growth and therapy problems, 24:14409
phosphorus-32 metabolism in, effects of copper and molybdenum on, 21:12755
phosphorus-32 metabolism in, following single and multiple inhalations, 23:4868(T) (ORNL-tr-2016)
phosphorus-32 uptake by acid-soluble nucleotides in small intestine of, following intraperitoneal administration, 23:33616
phosphorus-32 uptake by DNA of liver cells in hepatectomized, 21:41364
phosphorus-32 uptake by erythrocytes of, for determining correlation of phosphorated erythrocytic metabolism with second and third phase of general adaptation syndrome, 25:13335
phosphorus-32 uptake by neoplasms in, detection of, 21:41439
phosphorus-32 uptake by nucleic acids in, effects of dose on tracer studies using, 23:16239
phosphorus-32 uptake by nucleotides of heart of, in vitro or in vivo, effects of aldosterone on, 24:48386
phosphorus-32 uptake by thymus of, effects of adrenal hormone and strychnine on, 21:39356
phosphorus-32 uptake by tissue components of liver and mammary glands of, synergistic effects of progesterone and stilbestrol on, 24:21067
phosphorus-32 uptake by tissues of, in relation to physical stress, effects of thyroid function on, 23:47930
phosphorus-32 uptake by, effects of blocking agents on, 22:21418
phosphorus-32 uptake by, protective effects of AET against, 22:21551
phosphorus-32-labeled colloids of calcium, chromium, and iron distribution in, 22:6743
phosphorus-32-labeled dipine distribution in organs in, 25:32344
physiology in normal, role of thiocyanates in, 21:39326(R) (ORO-1643-071)
physiology of intestines of, effects of strontium and temperature on, 21:28359
physiology of thymus gland in, effects on content of circulating lymphocytes in blood, 21:14137 (UCRL-16898, pp 53-63)
physiology of, effects of diet containing γ-irradiated papayas on, 24:32290 (TID-25405)
plasma albumins biosynthesis and catabolism of, tracer study of effects of dietary proteins on, 22:30993
plasma of, use of iron-59 for determining erythropoietin levels in, 21:14575
plutonium chelate metabolism in, 21:28338(R) (BNWL-353(Rev.))
plutonium citrate sorption and metabolism in, effects of age on, 22:10675 (BNWL-480, pp 21-54)
plutonium content in liver of, use of electron microscope autoradiography for determining, 23:45642
plutonium determination in, whole-body counting method for, 22:51630
plutonium distribution in liver of, 22:51295 (AWRE-O-28/68)
plutonium distribution in tissues of, effects of chelates and colloids on, 25:6616(T) (AEC-tr-7169, pp 199-204)
plutonium distribution in tissues of, following uptake by inhalation, ingestion, or through wounds, methods for monitoring, 25:51970 (NIRS-Pu-6)
plutonium dstribution and retention by, following inhalation of plutonium oxide, role of macrophages in, 24:48384
plutonium excretion in, effects of DTPA and deferoxamine on rate of, 23:9893
plutonium inhalation by, following chamber administration, 25:6611(T) (AEC-tr-7169, pp 124-36)
plutonium inhalation by, kinetics of, 22:8477
plutonium metabolism by, effects of pregnancy on, 22:8478
plutonium metabolism in, effects of pregnancy on, 25:6614(T) (AEC-tr-7169, pp 171-9)
plutonium oxide inhalation by, design of device for studies on, 21:10856 (CEA-R-3086)
plutonium oxide sorption by intestines of, effects of age and particle size on, 22:10676 (BNWL-480, pp 85-97)
plutonium poisoning in, effects of DTPA treatment on, 21:18007
plutonium poisoning of, effects of, on microbial populations, 21:34670
plutonium retention by, effects of complexing agents on, 22:8480
plutonium sorption through skin of, effects of dimethyl sulfoxide as solvent on, 24:50693
plutonium toxicity in, in comparison to plutonium-238 and -239, 21:45544
plutonium uptake by lungs and pulmonary lymph nodes of, following inhalation, 22:21507
plutonium-210 distribution and exchange in organs and tissues of, kinetics of, 25:23962(T) (AEC-tr-7195, pp 128-35)
plutonium-237 distribution in tissues of, effects of citrates on, 24:581
plutonium-238 toxicity in, in comparison to plutonium-239, 21:45544
plutonium-238 toxicity to, in relation to distribution and degree of polymerization, 23:47927
plutonium-239 content and distribution in organs of, following chronic or single intraperitoneal administration, effects of age on, 25:23986(T) (AEC-tr-7195, pp 376-87)
plutonium-239 deposition in bones of, effects of bone remodeling activity and DTPA therapy on, 25:46697
plutonium-239 distribution and metabolism in, following inhalation of its compounds, 22:14954
plutonium-239 distribution in lungs and skeletons of, during and following inhalation of plutonium citrate aerosols, 24:25370
plutonium-239 distribution in lungs of, following inhalation as oxides, 24:34054
plutonium-239 distribution in tissues of, 21:26554(R) (BNWL-370)
plutonium-239 distribution in tissues of, effects of citrates on, 24:581
plutonium-239 distribution in tissues of, following inhalation or injection in oxide particles, 24:25368 (BNWL-1221, pp 5.1-33)
plutonium-239 distribution in, in relation to plants and soils, 24:4590 (UCLA-12-754)
plutonium-239 distribution in, whole-body autoradiographic method for measurement of, 25:57998 (NIRS-Pu-8)
plutonium-239 effects on growth of benign breast tumors and bone sarcomas in, following subcutaneous injection, α and γ, 23:2919(R) (ANL-7409)
plutonium-239 elimination from, effects of DTPA on, 23:22271(T) (AEC-tr-6944, pp 592-8)
plutonium-239 excretion by, effects of dehydrocholic acid, DTPA, and pilocarpine on enhancement of, 25:57998 (NIRS-Pu-8)
plutonium-239 metabolism by, comparison of different salts, 23:22165(T) (AEC-tr-6944, pp 122-30)
plutonium-239 metabolism by, use for calculations of standards for work air content, 23:22270(T) (AEC-tr-6944, pp 548-80)
plutonium-239 metabolism in organs and tissues of, following chronic inhalation in citrate form, 25:23965(T) (AEC-tr-7195, pp 153-60)
plutonium-239 metabolism in, effects of dietary dimethylaminoazobenzene, ethionine, and N-2-fluorenyldiacetamide on, 21:14526 (BNWL-280, pp 18-19)
plutonium-239 metabolism in, following ingestion, kinetics of, 23:17941
plutonium-239 metabolsim in, effects of epinephrine, diuretics, EDTA, and phosphates on, 22:12787
plutonium-239 phagocytosis in lungs of, following inhalation, 23:6375
plutonium-239 removal from, 24:34298 (BNWL-1050(Pt.1), pp 5.11-14)
plutonium-239 removal from lungs of, 24:34300 (BNWL-1050(Pt.1), pp 5.18-19)

plutonium-239 removal from lungs of, 24:34301 (BNWL-1050(Pt.1), pp 5.19-21)
plutonium-239 removal from organs of, effectiveness of DTPA for, 25:46809
plutonium-239 removal from tissues of, effects of cephalothin, vancomycin, or Pluronics F-68, alone or combined with DTPA on, 21:14557 (BNWL-280, pp 81-3)
plutonium-239 removal from tissues of, effects of DTPA on, 21:26554(R) (BNWL-370)
plutonium-239 removal from, effects of age on, 24:50674(R) (BNWL-1306(Pt.1))
plutonium-239 retention in bone and lung tissues of kangaroo, fallout, 25:4478
plutonium-239 sorption following inhalation by, protective effects of DTPA against, 23:50621
plutonium-239 sorption in gastrointestinal tract of, effects of age and particle size on, 21:34650(R) (BNWL-322)
plutonium-239 toxicity in, in comparison to plutonium-238, 21:45544
plutonium-239-contaminated wounds in skin of, efficiency of DTPA for decontamination of, 21:36568 (BNWL-SA-1253)
plutonium-241 distribution in liver of, electron microscopy and autoradiography of, 23:50326
polonium-210 metabolism in, following subcutaneous injection in comparison to dogs and rabbits, 24:7722
polonium-210 sorption by, via wounds, 23:22163(T) (AEC-tr-6944, pp 106-12)
potassium metabolism in lens of eyes of, effects of dietary galactose on, 21:47004 (CONF-670805-2)
potassium-42 distribution in denervated muscles of, 21:22345
potassium-42 retention in, 22:51308 (ORAU-106, pp 171-93)
potassium-42 transport by colon of adrenalectomized, normal, and sodium-depleted, determination of, by miniature GM and whole-body counters, 24:34069
promethium-147 distribution in organs of, effects of carrier and DTPA on, 23:20128
promethium-147 excretion by, effects of DTPA on, 23:6434 (BNWL-714, pp 6.1-21)
promethium-147 removal from, effectiveness of DTPA for, 24:34295 (BNWL-1050(Pt.1), pp 5.3-4)
protactinium-233 accumulation and distribution in organs and tissues of, effects of chelating agents on, 25:23963(T) (AEC-tr-7195, pp 136-46)
protactinium-233 distribution in blood, bones, and liver of, 21:8741
protactinium-233 metabolism by, effects of method of administration on, 23:22154(T) (AEC-tr-6944, pp 35-43)
protein components associated with hepatoma and liver microsomes in, 23:45162 (NYO-2651-21)
protein metabolism in, tracer study using selenium-75-labeled selenomethionine and whole-body counting, 24:27514
protein synthesis in cell cultures from pituitary gland of, effects of hypothalamic extracts on, 22:12175(R) (NYO-3827-3)
quanine deaminase activity in blood, liver, and kidneys of, effects of uranyl nitrate on, 24:561
radiation chimeras of, use with mouse radiation chimeras for studying effects of antilymphocyte serum, 24:627
radiation damage to eyes and testes of, effects of dose rate and prenatal exposure on, 25:26951
radiation detection by olfactory system of, effects of masking ozone on, x, 21:3437
radiation detection by olfactory system of, x, 22:28625 (NYO-2147-13, pp 181)
radiation detection by, interchangeability of ozone and ethyl butyrate as conditional stimuli for x, 22:28282 (NYO-2147-13, pp 182-92)
radiation detection by, role of olfactory bulb in, x, 21:6629
radiation detection by, sensory threshold for x, 21:28594(R) (ORO-2903-33)
radiation detection in kidneys of, by autoradiography of nuclear reactions, neutron, 23:24620
radiation dose distribution in frozen and phantom, determination of x, 22:40723
radiation dose distribution in, following whole-body radon baths, 21:8896
radiation dose rate in tissues of, quantitative autoradiography for studying distribution of, 24:714
radiation dose to adult kangaroo, living at Nevada Test Site, life-time low-level chronic external and internal tritium β and external γ, 25:6666
radiation dose to cotton, in cesium-137-contaminated enclosures, γ, 24:39461 (ORNL-4446, pp 41-65)
radiation dose to females and fetuses of, following administration of tritium oxide to pregnant females, β, 23:18039
radiation dose to liver of, measurement of strontium-90 β, 22:49347
radiation dose to lungs in, following inhalation of lead-212-labeled aerosols, α, 25:29455
radiation dose to lungs of, from natural background radiation, radon-220 α, 24:31894
radiation dose to organs and tissues of, use of implanted thermoluminescent dosimeters for measurement of absorbed, 25:52196
radiation dose to thyroid of, measurement of, 23:33708 (PHS-PUBL.-1809, pp 21-44)
radiation dose to tissues of, following ingestion of tritium oxide, use of mathematical model to calculate β, 23:31756
radiation dose to tissues of, from carbon-14- and tritium-labeled compounds in relation to protection standards, β, 23:20239
radiation dose to tissues of, in Brazil from inhalation of radon, thoron, and daughters, 23:22287 (NYO-3086-8, pp I.1-42)
radiation dose to tissues of, neutron, 24:41720 (ANL-7635, pp 115-53)
radiation dose to, comparison of specific activity of sodium-24 and mortality data for determining neutron, 22:45523
radiation dose to, effectiveness of blood plasma-quenching effect for measuring whole-body γ, 25:58017
radiation dose to, effects of dose rate on combined fast neutron and γ ray LD50/30, 23:38764(R) (AD-677185)
radiation dose to, following ingestion and injection of tritium-labeled thymidine, β, 22:45521
radiation dose to, following ingestion of radioactive particles, effects of gastrointestinal retention time on α, β, and γ, 22:49228
radiation dose to, following injection of beryllium-7, 24:25479 (CEA-CONF-1445)
radiation dose to, following intravenous administration of gallium-67 as citrate, 25:18992
radiation dose to, from administration of tritiated folic acid or tritiated water, 21:24438
radiation dose to, from orally administered tungsten-185 and tungsten-187, γ, 22:38212
radiation dose to, from phosphorus-32-labeled sodium acid phosphate in soft tissues, 21:4808
radiation dose to, use of deoxypyrimidinuria and lymphocytopenia for calculation of γ, neutron, x, 24:6035
radiation dose to, use of phantom for determining γ and x, 21:36606
radiation dose to, uses of phantoms to measure factors determining LD 50/30, 21:34671
radiation dosimetry compared in, and mice, fast neutron, γ, and x, 21:8828
radiation dosimetry in cadavers of, use of thermoluminescent microdosimeters for x, 22:28476
radiation dosimetry in lungs of, following uptake of iron-59, β, 22:21605
radiation dosimetry in, using tissue-equivalent phantoms, effects of penetration depth on, 22:6652 (ORNL-4168, pp 183-230)
radiation dosimetry in, x, 21:45654
radiation dosimetry of, proton, 21:10913
radiation effects from radon-containing water on biosynthesis of tissue proteins in, 25:21558
radiation effects from tritium oxide on spermatogenesis, testes, and viability of progeny of, 25:24328(T) (AEC-tr-7195, pp 422-32)
radiation effects in vitro on blood platelets of, 21:1828
radiation effects of glycogen content in tissues of, whole-body γ, 21:10794
radiation effects of sulfadimerazine metabolism in, polonium-210 α, 23:22372(T) (AEC-tr-6944, pp 324-32)
radiation effects of, optimal amounts for protective effects of alginic acid, ammonium oxalate, sodium alginate, and sodium phytate against strontium-90 β, 23:12172
radiation effects on , effects of functional state of adrenal glands on acute γ, 22:49458
radiation effects on absorption and excretion of tritium-labeled water by, effects of dose on x, 22:49233
radiation effects on absorption of sugars by intestine of, γ, 21:10815
radiation effects on abundance of leukocytes and lymphocytes in blood of, γ, neutron, and x, 21:41498
radiation effects on acceptance of skin transplants by, local x, 21:39504
radiation effects on acceptance of x-irradiated tumor cell transplants by, x, 24:34143
radiation effects on accumulation of micronuclei in kidneys of, protective effects of cystamine against whole-body, 24:14519
radiation effects on accumulation of radon-222 in body of, effects of tail ligature on uv and x, 25:32535
radiation effects on acetylcholine content of intestinal wall, γ, 21:6440
radiation effects on acetylcholinesterase activity and protein content in brain of, prenatal x, 22:447
radiation effects on acid phosphatase activity in lysosomes in liver cells of, x, 25:46964 (AD-715474)
radiation effects on acid phosphatase and proteins in neoplasms of, x, 22:459
radiation effects on acid secretion and bioelectric potential in stomach of, x, 22:49226
radiation effects on acid secretion by gastric mucosa in stomach of, 21:18120 (USNRDL-TR-67-18)
radiation effects on acidity and clearance of stomach in, effects of atropine on, 22:28683
radiation effects on acridine orange staining and count of eosinophils in, effects of fasting on whole-body x, 23:29812
radiation effects on activation and induction of liver tryptophan pyrrolase of, by cortisone and substrate, x, 23:41254
radiation effects on active transport of glucose in intestine of, x, 24:14590
radiation effects on active transport of sugars in isolated jejunum from, effects of MEA on x, 21:24362
radiation effects on activity and electrophoretic characteristics of alkaline phosphatase in organs and serum of, whole-body x, 22:2484
radiation effects on activity and formation of tryptophan oxygenase in, at 4 to 72 hr following whole-body exposure, x, 24:27530
radiation effects on activity and isoenzyme composition of lactate dehydrogenase in heart, liver, and spleen of neonatal, following parental exposure, 25:29665
radiation effects on activity and localization of acid phosphatase in testes of, γ, 22:33774
radiation effects on activity of 2-hydroxybutyrate dehydrogenase and lactate dehydrogenase in, whole-body γ and x, 21:32567
radiation effects on activity of acetylcholinesterase and butyrylcholinesterase in cerebellum of maturing, whole-body γ, 24:31850
radiation effects on activity of acid and alkaline phosphatases in subcellular fractions of liver and spleen cells in, whole-body x, 22:6730
radiation effects on activity of acid hydrolases in cells of tumors from, x, 22:28377
radiation effects on activity of acid phosphatase, cathepsin, and RNAase in liver of, x, 23:17946
radiation effects on activity of alanine aminotransferase and aspartate aminotransferase in, protective effects of saturated fatty acids against x, 22:12796
radiation effects on activity of alkaline desoxyribonucleases in blood plasma of, x, 21:11025
radiation effects on activity of alkaline phosphatase and cholinesterase in blood and tissues of, following injection of mixed radioisotopes, 25:10968
radiation effects on activity of aminotransferases in serum of, whole-body x, 22:40909
radiation effects on activity of aminotransferases in serum of, whole-body x, 25:24361
radiation effects on activity of aminotransferases in tissues of, x, 21:4779
radiation effects on activity of arginase in epidermis of, uv, 21:28397
radiation effects on activity of aspartate aminotransferase in brain of, effects of corticosteroid content on neutron and x, 23:20098
radiation effects on activity of aspartate-aminotransferase in brain mitochondria of, whole-body x, 25:32586
radiation effects on activity of blood catalase in, effects of anesthesia and electric current on x, 23:9877
radiation effects on activity of β-glucuronidase in liver of, whole-body x, 23:2919(R) (ANL-7409)
radiation effects on activity of β-glucuronidase in liver of, acute x, 23:4882
radiation effects on activity of catalase and peroxidase, erythrocyte count, and hemoglobin content of blood of, in comparison to guinea pigs, x, 24:48392(T) (ANL-Trans-841)
radiation effects on activity of cathepsins in tissues of, neutron, 21:11110
radiation effects on activity of central nervous system of, effects of prenatal exposure on x, 21:34804
radiation effects on activity of choline acetyltransferase in central nervous system of young, x, 24:23106 (CONF-690501-, pp 887-98)
radiation effects on activity of cholinesterase and content of acetylcholine in tissues of, iodine-131 β and γ, 24:34694
radiation effects on activity of cholinesterases, content of lipoproteins, and count of blood cells in, following inhalation of tritium oxides, β, 23:47941
radiation effects on activity of cytidine kinase in, in comparison to effects of AET and partial hepatectomy, 23:26697
radiation effects on activity of cytidine reductase in regenerating liver of, whole-body x, 23:9876
radiation effects on activity of dehydrogenases in tissues of, whole-body x, 23:10072
radiation effects on activity of deoxyribonuclease in tissues of, whole-body x, 21:8690
radiation effects on activity of DNAase in liver and spleen of, protective effects of AET and cysteamine against x, 22:4661
radiation effects on activity of enzymes and content of lipid peroxides and mercapto groups in liver and spleen of, x, 23:7929 (INR-921)
radiation effects on activity of enzymes in intestinal epithelium of, effects of dose on x, 24:44428
radiation effects on activity of enzymes in intestine of, cobalt-60 γ, 24:44430
radiation effects on activity of enzymes in liver of, effects of dose on ionizing, 23:29374
radiation effects on activity of enzymes in liver and spleen of, whole-body ionizing, 22:40589
radiation effects on activity of enzymes in, x, 22:25753
radiation effects on activity of glucose 6-phosphate dehydrogenase in intestinal mucous membrane, effects of 800 R dose on, 24:16987
radiation effects on activity of glucose 6-phosphate dehydrogenase in erythrocytes of, whole-body x, 23:10073
radiation effects on activity of glucose 6-phosphatase in liver of, acute x, 23:4883
radiation effects on activity of glucose-6-phosphate dehydrogenase and NAD-diaphorase in organs of, whole-body x, 23:35642
radiation effects on activity of glutamate decarboxylase and content of 3-aminobutyric acid in brain of, x, 23:17910
radiation effects on activity of glutamate oxidoreductase in liver of tumor-bearing, effects of cysteine and glutathione on, 24:27542
radiation effects on activity of glycolytic enzymes in liver of, x, 25:16025 (AD-713087)
radiation effects on activity of hydrolases in liver of, whole-body γ, 25:16279 (NIRS-9, pp 15-53)
radiation effects on activity of Krebs cycle dehydrogenases in gastrointestinal tract of, whole-body mixed γ-neutron and x, 24:582 (AD-689095)
radiation effects on activity of Krebs cycle dehydrogenases in gastrointestinal tract of, γ, neutron, and x, 24:9774
radiation effects on activity of lactate dehydrogenase in blood serum, heart, liver, and testis of, protective effects of injection of methylene blue against γ, 25:26803
radiation effects on activity of lactate dehydrogenase in blood plasma and organs of, whole body x, 24:39563
radiation effects on activity of lysosomal enzymes in tissues of, protective effects of cysteine and vitamin K, against whole-body γ, 22:10738
radiation effects on activity of lysyl-tRNA synthetase in liver of, whole-body x, 25:44766
radiation effects on activity of lysyl-tRNA synthetase in liver of, x, 24:11946

radiation effects on activity of methionine adenosyltransferase in liver of, effects of ethionine on lethal x, 25:29663
radiation effects on activity of nicotinamide deamidase in liver of, x, 23:33638
radiation effects on activity of phosphodiesterase and RNAase in intestine of, whole-body x, 22:36399
radiation effects on activity of redox enzymes in liver of, following ingestion of radon-containing water, effects of dose on, 25:42279
radiation effects on activity of respiratory enzymes in organs of, x, 24:9758
radiation effects on activity of serum cathespin in, whole-body x, 25:24423
radiation effects on activity of serum LDH in mothers and offspring of, whole-body x, 25:21598
radiation effects on activity of succinate dehydrogenase in brain, cardiac muscle, kidneys, liver, lungs, and spleen of, at 6 to 48 hr after exposure to 900 R doses, x, 24:27540
radiation effects on activity of succinoxidase in tissues of heart of, whole-body γ, 21:45794
radiation effects on activity of thymidyl synthetase in, 21:34597
radiation effects on activity of transaminases in serum and tissues of, following injection, radon α, 23:48213
radiation effects on activity of tryptophan peroxidase in liver of, x, 22:19383
radiation effects on adenohypophysis and hypothalamo-hypophyseal neurosecretory system in, effects of dose on chronic x, 22:31260
radiation effects on adenohypophysis of castrated, cytological study of γ, 22:45663
radiation effects on adenosine triphosphatase activity of hematopoietic tissues of, protective effects of drugs against γ, 22:8592(R) (AD-629311)
radiation effects on adhesive and aggregation properties of blood platelets of, γ, 24:12306
radiation effects on adrenal cortex activity in, protective effects of cysteamine against x, 22:23576
radiation effects on adrenal cortex of, acute and latent γ, 22:49612
radiation effects on adrenal cortex of, effects of dose on strontium-90 β, 23:925
radiation effects on adrenal cortex of, histochemistry of x, 23:22409
radiation effects on adrenal cortex of, protective effects of sex hormones against whole-body x, 25:11268
radiation effects on adrenal corticosteroids of, x, 21:16509
radiation effects on adrenal function in, following subcutaneous administration of 0.02 and 0.08 mCi/kg polonium-210, α and γ, 24:604
radiation effects on adrenal function in, protective effects of chemical agents against, 22:45628
radiation effects on adrenal gland function in, protective effects of antibiotics, bone marrow, and drugs against x, 22:45628
radiation effects on adrenal gland function in, whole-body lethal and sublethal x, 21:24547 (NIRS-5, pp 28-46)
radiation effects on adrenal gland function of, neutron and x, 21:1831
radiation effects on adrenal gland of, effects of ACTH injections on whole-body γ, 21:34800
radiation effects on adrenal gland of, x, 22:45665
radiation effects on adrenal glands and histochemical responses of, following polonium-210 incorporation, α, 23:24725
radiation effects on adrenal glands and ovaries in female, chronic γ, 22:33960
radiation effects on adrenal glands in, recovery from, 25:26998
radiation effects on adrenal glands of, in relation to biochemical changes, ionizing, 24:12267
radiation effects on adrenal medullary cells of, electron microscopy of x, 23:41462
radiation effects on adrenals, intestine, liver, and lymph nodes of, cerium-144 β and γ, 24:9930
radiation effects on adrenocortical functions of, whole-body supralethal, 22:19280
radiation effects on adrenocorticotrophic function of pituitary gland in, chronic, 24:16978
radiation effects on adrenocorticotropic function of pituitary of, during radiation sickness, review of, 24:19355
radiation effects on aerobic glycolysis in brain of, 21:20034 (UCLA-12-612, pp 15-36)
radiation effects on age and growth of, x, 25:26965
radiation effects on aging of serum protein fractions in prenatal, 25:21595
radiation effects on alanine and aspartate aminotransferase activity in, x, 25:39914
radiation effects on albumin and red cell spaces in brain of, effects of dose on x, 24:48677 (COO-1653-88(Draft))
radiation effects on albumin metabolism and proteolytic activity in liver, combined effects of starvation and x, 25:26984
radiation effects on albumin synthesis and cell permeability in, mechanism of, 25:27007
radiation effects on alkaline phosphatase activity and calcium metabolism in, combined strontium-90 β and uv, 23:9866
radiation effects on alkaline phosphatase activity in small intestine of, protective effects of compounds against x, 25:29645
radiation effects on alkaline phosphatase activity in blood of, γ, 22:40562
radiation effects on alkaline phosphatase and aspartate aminotransferase in plasma of, effects of partial shielding on acute x, 23:16238
radiation effects on alkaline ribonuclease content of mucosa of intestine of, role of neuroendocrine reactions in acute x, 22:49272
radiation effects on allometry of body weight and tail length in, x, 25:35225
radiation effects on alloxan diabetes in, x, 23:10076
radiation effects on amide content in brain protein of, x, 21:22310
radiation effects on amide groups of brain proteins in, effects of dose and time on whole-body x, 25:508
radiation effects on amino acid content and enzyme activity in developing brain of, x, 25:4457(R) (UCB-34-P-82-9)
radiation effects on amino acid content in plasma and urine of, evaluation of, for dosimetry and indicator of damage, mixed γ and neutron, 24:17132 (AD-695770)
radiation effects on amino acid content of blood plasma and liver in, x, 24:601
radiation effects on amino acid content of liver and kidneys of, γ, 21:3448
radiation effects on amino acid content of livers of, effects of dose and hepatectomy on x, 25:27022
radiation effects on amino acid content of perfused liver of, in vitro, x, 25:16030
radiation effects on amino acid incorporation into cytoplasmic and nuclear proteins of regenerating liver in, carbon-14 tracer study of x, 24:11956
radiation effects on amino acid metabolism and enzyme activity in, effects of dose on whole-body x, 24:34112
radiation effects on amino acids and amine nitrogen of liver and spleen of, γ, 21:10744
radiation effects on aminoazo dye N-demethylating activity of regenerating liver of, γ, 21:28619
radiation effects on aminotransferase activity in mitochondria of tissues of, x, 25:57933
radiation effects on aminotransferase activity in serum of, effects of unsaturated fatty acid content of diet on whole-body x, 25:42298
radiation effects on aminotransferase activity in CNS and skeletal muscles of, x, 21:22343
radiation effects on ammonia-glutamine system of brain of, x, 22:49234
radiation effects on amylase activity in fetal and maternal, whole-body x, 24:51043
radiation effects on androgen synthesis in testes of, x, 25:37869 (COO-1602-16)
radiation effects on androgen synthesis in testes of, x, 25:37870(R) (COO-1602-23)
radiation effects on antibody formation in, effects of lymphocyte injections on x, 22:4573
radiation effects on antibody formation in, protective effects of vitamin K3 against x, 21:4829
radiation effects on antibody formation in, whole-body x, 21:45508
radiation effects on antibody formation in, whole-body x or γ, 21:11075
radiation effects on antibody formation in, x, 21:8918(T) (AEC-tr-6486/4A)
radiation effects on antibody production in, 23:38496
radiation effects on antibody response of, to bovine serum albumin, sheep erythrocytes, and tetanus toxoid, effects of lymphocytes on x, 22:51360
radiation effects on antibody synthesis in spleen of, following injection of sheep erythrocyte antigen, latent effects of dose on localized x, 25:21600
radiation effects on antibody synthesis in spleen of, following immunization with sheep erythrocytes, γ, 23:4888
radiation effects on anticonvulsant effects of diphenylhydantoin in, neonatal whole-body x, 23:45644 (UCB-34-P-82-8)
radiation effects on antigen content in lungs of, methods for determining effects of time on x, 24:34154
radiation effects on antigen localization in lymphoid follicles of, 22:28621 (ANL-7278, pp 1-94)
radiation effects on antigens in bone marrow cells of, immunoelectrophoretic study of x, 21:26609
radiation effects on antitumor activity and thyroid function in, following minimal neoplastic doses, strontium-90 β, 23:29785
radiation effects on appetitional and avoidance response rates in, following whole-head exposure, x, 21:11045
radiation effects on arterial pressure in, following intratracheal and intraperitoneal injection of thorium dioxide, α, 25:4701
radiation effects on arylamine content of blood in, effects of metabolic activity on x, 22:28347
radiation effects on arylesterase activity in blood serum and organs of, whole-body x, 22:33735
radiation effects on arylsulphatase activity in urine of, whole-body x, 25:18905
radiation effects on ascites sarcoma cells in, x, 21:1804
radiation effects on ascorbic acid content and radioactive iodine sorption in adrenal and thyroid glands in, following intragastric administration of radon water, 25:32352
radiation effects on ascorbic acid content in organs of, effects of combined irradiated meat diet and whole-body, 25:46987
radiation effects on ascorbic acid excretion from Wistar, x, 21:22658
radiation effects on aspartate aminotransferase activity in liver of, protective effects of cysteamine and serotonin against x, 21:34715
radiation effects on aspartate aminotransferase activity in blood serum and liver tissues of, effects of liver excision on x, 22:28348
radiation effects on audiogenic seizure susceptibility in offspring of, effects of age on in utero, x, 25:26968
radiation effects on auto-allergic reactions in, gold-198 β, 24:34711
radiation effects on autoantibody production in, in response to injured liver tissue, x, 21:6622
radiation effects on autolysis of glycogen in bone marrow of, x, 21:6441
radiation effects on α-glucan phosphorylase and glycogen in livers of, effects of adrenalectomy and fasting on whole-body x, 22:40569
radiation effects on bacterial population of intestine and stomach of, whole-body, 23;35946 (ORAU-107, pp 68-70)
radiation effects on bar-pressing behavior of, whole-body x, 23:16392
radiation effects on barium meal aversion in, role of gastric emptying in, x, 22:23605
radiation effects on basal and carbohydrate metabolism of, effects of acetylcholine, adrenaline, histamine, noradrenaline, and serotonin on x, 22:40584
radiation effects on behavior and heart rate of, effects of prenatal exposure on x, 23:5028
radiation effects on behavior and metabolism of, effects of age on x, 22:49500
radiation effects on behavior and morphology of, following intrauterine exposure, x, 24:23318 (CONF-690501-, pp 289-300)
radiation effects on behavior and physiology of, chronic x, 22:51902
radiation effects on behavior and thyroid gland of, following intraperitoneal injection of iodine-131 during gestation, 25:58100
radiation effects on behavior of, combined effects of apomorphine and lithium chloride on x, 22:12932
radiation effects on behavior of, design of tachistoscope for studies of x, 21:12983
radiation effects on behavior of, effects of dose fractionation on x, 22:51990
radiation effects on behavior of, effects of dose on γ, 21:36686 (NP-16513)
radiation effects on behavior of, exposed during gestation, 21:20327(R) (TID-23636)
radiation effects on behavior of, exposed prenatally or during infancy, 21:20316(R) (COO-1201-10)
radiation effects on behavior of, following prenatal exposure, γ, 24:48689
radiation effects on behavior of, γ, 22:23654
radiation effects on behavior of, low-level microwave, 24:34653
radiation effects on behavior of, relation of, to radiosensitivity, 22:33941
radiation effects on behavior of, x, 21:8958
radiation effects on behavior, morphology, spermatogenesis, and survival of infantile, effects of 100- to 600-R dose to head on x, 24:23332 (CONF-690501-, pp 453-74)
radiation effects on bile secretion in, effects of oxaphenamide on whole-body x, 25:24354
radiation effects on binding of methotrexate in liver of, tritium tracer study of x, 23:29297 (UCRL-18832)
radiation effects on biochemical and biophysical properties of muscle membranes of, ionizing, 24:11929(R) (NYO-3467-2)
radiation effects on biochemical differentiation in brain of young, 100 to 1500 R x, 24:23105 (CONF-690501-, pp 857-75)
radiation effects on biochemical differentiation of brain in, ionizing, 23:47954 (UCLA-12-724, pp 71-87)
radiation effects on biochemical differentiation of brain of, 23:35635 (UCLA-12-725)
radiation effects on biochemistry and histology of kidneys of, x, 21:10766
radiation effects on biochemistry of body fluids in, as indicator of radiation injuries, review on, 25:42402
radiation effects on biochemistry of developing brain of, 25:8758(R) (UCB-34-P-82-10)
radiation effects on bioelectric activity in brain of, effects of prenatal exposure on γ, 22:40604
radiation effects on bioelectric activity in brain of, 25:35235
radiation effects on bioelectric potential of cells and progeny of, following chronic administration of strontium-90, β, 25:23984(T) (AEC-tr-7195, pp 304-8)
radiation effects on bioelectric properties and glucose transport in intestine of, combined effects of chronic bile diversion on x, 25:8607(R) (ORO-3882-3)
radiation effects on bioelectrical potential of intestine in, x, 21:14538 (BNWL-280, pp 4-8)
radiation effects on biological activity of hypothalamic extracts from, γ, 21:20054
radiation effects on biosynthesis and content of NAD in liver, spleen, and thymus of, acute x, 23:4895
radiation effects on biosynthesis of androgen in testes of, effects of human chorionic gonadotropin on x, 23:933(R) (NIRS-6)
radiation effects on biosynthesis of cholesterol and lipids in intestine and lungs of, x, 21:34606
radiation effects on biosynthesis of mitochondrial DNA in liver and spleen of, carbon-14-labeled thymine tracer studies of, whole-body x, 23:24516
radiation effects on biosynthesis of protein in isolated mitochondria from liver of, 23:47962
radiation effects on blood and blood cells of, protective effects of cystamine and mexamine against, 23:10010
radiation effects on blood and bone marrow cells of, following single or chronic inhalation of plutonium-239, α, 25:24324(T) (AEC-tr-7195, pp 347-53)
radiation effects on blood and plasma volume in, chromium-51 and iodine-125 tracer studies of whole-body lethal x, 24:8002
radiation effects on blood cell count, hemoglobin, and weight of, protective effects of DNA against γ, 23:12136(T) (AEC-tr-6646/4A, pp 111-13)
radiation effects on blood cell counts in liver of embryonic and newborn, 21:34793
radiation effects on blood cell cytology, blood circulation, bone marrow cytology, and blood transferase activity in, protective effects of AET against x, 25:4599
radiation effects on blood cells and life span of, following intravenous administration of protactinium-233, β, 25:24321(T) (AEC-tr-7195, pp 314-29)
radiation effects on blood cells in, whole-body x, 23:43881
radiation effects on blood cells, weight of spleen, and weight of thymus in, comparison of RBE for cesium-137 and tritium oxide, 25:13551
radiation effects on blood circulation in placenta and uterus of, use of phosphorus-32 and sulfur-35 for determining, 24:41965
radiation effects on blood clot retraction in, γ, 22:45713

radiation effects on blood coagulation and fibrinolysis in, in relation to hemorrhage in radiation sickness, x, 23:35906
radiation effects on blood coagulation in, effects of serotonin on cobalt-60, 25:13549
radiation effects on blood coagulation in, mechanism of x, 25:44926
radiation effects on blood coagulation in, protective effects of cystamine and homologous bone marrow against x, 25:11105
radiation effects on blood coagulation in, protective effects of bone marrow nucleic acids or cystamine against lethal x, 25:44834
radiation effects on blood coagulation in, whole-body, γ, 21:22667
radiation effects on blood coagulation in, whole-body x, 21:41484
radiation effects on blood coagulation in, x, 21:41483
radiation effects on blood coagulation in, x, 21:22235 (EUR-2526.f)
radiation effects on blood coagulation time in method for testing of x, 21:22734
radiation effects on blood condition and survival of, protective effects of selenourea against γ, 22:33884
radiation effects on blood constituents in, γ, 21:11026
radiation effects on blood counts and mortality of, effects of dose on proton, 22:28645
radiation effects on blood flow in intestine of, x, 23:31942
radiation effects on blood glucose content of, whole-body γ, 21:1800
radiation effects on blood of hypothyroid and normal, 21:39513
radiation effects on blood of kangaroo, at Nevada Test Site, plutonium-239 α and γ, 23:7975
radiation effects on blood of neonatal, effects of in utero exposure on x, 24:41960 (BRH/DBE-70-1, pp 95-151)
radiation effects on blood of young and old, x, 21:6666
radiation effects on blood of, following extracorporeal exposure, γ, 23:48226
radiation effects on blood of, plutonium-239 α and γ, 22:49503
radiation effects on blood of, protective effects of platelet extract on in vivo, 22:33869
radiation effects on blood of, proton and x, 22:15078
radiation effects on blood of, whole-body γ, 22:12756(T) (NASA-TT-F-413, pp 175-91)
radiation effects on blood picture and life span of, RBE of protons and x, 21:16440(T) (JPRS-38272, pp 430-1)
radiation effects on blood picture in, chronic low-dose x, 21:39514
radiation effects on blood picture of, effects of dose on continuous exposure, 25:44899
radiation effects on blood platelet formation in, γ, 25:21851
radiation effects on blood pressure and epinephrine synthesis in, whole-body x, 22:45666
radiation effects on blood pressure of, effects of procaine on, 22:19364
radiation effects on blood pressure of, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on blood serum of, effects of, on function of isolated ileum and uterine tissues, 24:34680
radiation effects on blood serum of, whole-body x, 21:45675
radiation effects on blood serum protein fractions of, following exposure of oral mucous membrane, uv, 25:52222
radiation effects on blood serum proteins and fetal bone system of, effects of thyroidectomy on γ and x, 22:19445
radiation effects on blood sugar level and zinc content of pancreas of, effects of low doses on x, 23:29364
radiation effects on blood vessel permeability of, combined effects of burns on γ, 21:11029
radiation effects on blood vessels and mucosa in intestines of, x, 22:49556
radiation effects on blood vessels in kidneys of, following injection of polonium-210. pathologic α and γ, 22:23628
radiation effects on blood volume in bone marrow of, effects of dose on x, 23:41453
radiation effects on blood, life span, and tumor frequency of, effects of BCG vaccination on γ, 21:20350
radiation effects on blood—brain barrier in, on content of 5-hydroxytryptamine, x, 21:10731
radiation effects on body and organ weights in, protective effects of growth hormone against, 23:35766(T) (AD-682568)
radiation effects on body weight and hematology of, protective effects of bone marrow and chemicals against γ, 23:8031
radiation effects on body weight and life span of, protective effects of groundnut oil against γ, 22:49494
radiation effects on body weight and survival of, effects of dose on, 24:36819
radiation effects on body weight, bone growth, and consumption of food and water by, following exposure as juvenile, late whole-body fast neutron and x, 24:23330 (CONF-690501-, pp 439-47)
radiation effects on bone development and serum proteins of, combined effects of thyroidectomy on chronic γ and x, 22:36387
radiation effects on bone induction by matrix of transplants in, effects of dose on γ, 23:930
radiation effects on bone marrow and Guerin tumor in, effects of grid and slot exposure on x, 23:31960
radiation effects on bone marrow and intestine of, comparison of γ, neutron, and x, 22:12908
radiation effects on bone marrow and intestines of, protective effects of AET against, 22:25885
radiation effects on bone marrow and reticulo-endothelial system of, protective effects of bacterial antigens, epinephrine, and pilocarpine against x, 25:13567
radiation effects on bone marrow cell counts in, radioisotope and x, 21:20415
radiation effects on bone marrow cells in, recovery from x, 21:6625
radiation effects on bone marrow cells of, effects of shielding on, 22:51950
radiation effects on bone marrow cells of, renewal response following continuous, 22:49469 (CONF-680410-, pp 3.1-12)
radiation effects on bone marrow chromosomes of, x, 25:55192
radiation effects on bone marrow hematopoietic stem cells in, comparison of cyclophosphamide and x, 25:44917
radiation effects on bone marrow in, effects of grid method on x, 24:868
radiation effects on bone marrow in, in comparison to mice, effects of species on local x, 25:13563
radiation effects on bone marrow in, protective effects of AET against, 25:537
radiation effects on bone marrow in, regeneration of x, 22:31271
radiation effects on bone marrow nucleated cell and dysplastic hair growth in, protective effects of cystamine against local and whole-body, 25:44838
radiation effects on bone marrow of, combined cytotoxin effects and x, 24:34710
radiation effects on bone marrow of, effects of age on morphological x, 21:36696
radiation effects on bone marrow of, effects of dose on regeneration of injuries following x, 22:43399
radiation effects on bone marrow of, effects of, on lipid metabolism, γ, 22:51874 (ORAU-106, pp 5-104)
radiation effects on bone marrow of, fast neutron and x, 23:33866
radiation effects on bone marrow of, fast neutron, γ, x, 22:40844
radiation effects on bone marrow of, hematopoietic regenerative activity following, 25:16341
radiation effects on bone marrow of, in relation to stem cell population kinetics, design of model for compartmental analysis of, 25:11290
radiation effects on bone marrow of, internal β, 22:51937
radiation effects on bone marrow of, lymphocyte counts in blood and marrow following x, 23:38788
radiation effects on bone marrow of, protective effects of cysteine and nucleic acids against, 25:49219
radiation effects on bone marrow of, strontium-90 β, 23:26897
radiation effects on bone marrow of, use of intraocular transplant technique for studying growth following, 25:2595
radiation effects on bone marrow stem cells of, effects of nonuniform exposure on γ and x, 22:49581
radiation effects on bone marrow, intestines, and subcutaneous tissues of, oxygen tension kinetics during protective effects of mexamine against γ, 25:29551
radiation effects on bone marrow, spleen, and thymus of, effects of dose on regeneration of, 23:12226
radiation effects on bone-growth of, during parabiosis, x, 21:11012
radiation effects on bones and mucosa of jaws in, effects of dose on x, 24:2788
radiation effects on bones, brain glands, and thyroid of, 18-month manifestation of thorotrast α and γ, 23:22398
radiation effects on brain and skull of, effects of craniectomy on laser, 21:39507
radiation effects on brain cells in, x, 24:36710
radiation effects on brain in, histological methods in studies of, 25:52195
radiation effects on brain in, laser, 24:841
radiation effects on brain of fetal and neonatal, relation of, to behavior and growth of young, strontium-90-yttrium-90, β, 23:8056
radiation effects on brain of, behavioral and histological analysis of direct x, 22:38464
radiation effects on brain of, combined effects of age and dose on, 24:17138
radiation effects on brain of, effects of age on x, 22:23592(R) (COO-1474-11)
radiation effects on brain of, effects of dose on γ, 21:28606
radiation effects on brain of, laser, 21:1782
radiation effects on brain of, protective effects of hair, scalp, and skull against laser, 22:8633
radiation effects on brain of, proton, 21:6633
radiation effects on brain of, x, 22:23621
radiation effects on brain reflexes in, 1-R dose, 25:26949
radiation effects on brains of neonatal, following maternal exposure, effects of fetal age on x, 23:8058
radiation effects on brains of postnatal, manifested at 250 days following exposure in utero, x, 23:16399
radiation effects on brains of, laser, 21:12965
radiation effects on bromine-82 metabolism following exposure of abdomen, x, 25:42282
radiation effects on β-fructofuranosidase activity in brain, heart, kidney, and liver of, x, 22:23422
radiation effects on β-glucuronidase activity in, whole-body x, 22:33755
radiation effects on cadaverine deaminase activity and deamination of nitrogen compounds in liver of, 25:29641
radiation effects on calcium accumulation in, effects of doses of 500 to 600 R on γ, 25:24401
radiation effects on calcium metabolism in, effects of location and pregnancy on x, 23:33863
radiation effects on calcium metabolism in, effects of sex on, 25:55331
radiation effects on calcium, mucopolysaccharide, and strontium metabolism in, x, 22:49225
radiation effects on calcium-45 uptake by bones of, exposed in head or parathyroid-thyroid region, x, 21:20385
radiation effects on calcium-45 uptake by bones of, x, 23:9855
radiation effects on calcium-45 uptake by, following local knee irradiation, abscopal electron, 22:51899
radiation effects on capillaries and glial cells in brain of, x, 22:4693
radiation effects on capillary resistance in organs of, effects of hesperidin on x, 24:2807
radiation effects on capillary ultrastructure of nervous tissue in, whole-body, 22:33742
radiation effects on carbohydrate and electrolyte metabolism in bone marrow of, effects of hyperbaric oxygen and Proresid on γ, 25:32550
radiation effects on carbohydrate metabolism in brain in, combined effects of adrenalectomy, epinephrine, hydrocortisone, and neutron, 25:44937
radiation effects on carbohydrate metabolism in, effects of, on induction of hereditary cataracts, x, 21:14752
radiation effects on carbon-14 metabolism in exhaled air in, following ingestion of carbon-14-labeled oleic acid and carbon-14-labeled olein, whole-body x, 23:38815
radiation effects on carbon-14-labeled carbon dioxide production, glucose absorption, oxygen utilization and mitochondrial function in, continuous, 25:10980
radiation effects on carbon-14-labeled orotic acid or iodine-131-labeled albumin activity in, as indicators of radiation injury, whole-body γ, 25:42407
radiation effects on cardiac activity in, effects of daily administration of radioisotopes on, 21:34795
radiation effects on cardiac muscle and central nervous system of, x, 22:19295
radiation effects on cardiac output and peripheral resistance of organs of, x, 23:33856
radiation effects on cardiovascular system of fetal, 14.1 MeV fast neutron, 24:23321 (CONF-690501-, pp 325-40)
radiation effects on cardiovascular, nervous, and respiratory systems of, tritium β, 22:19412
radiation effects on cartilage cells in tails of, comparison of electron, γ, and x, 25:44921
radiation effects on catabolism of serum proteins in, 21:36506
radiation effects on catalase activity in blood and pyrophosphatase activity in brain and liver of, continuous whole-body γ, 25:42277
radiation effects on catalase activity in tissues of, x, 24:884
radiation effects on catechol methyltransferase and monoamine oxidase activity in, protective effects of cystamine against, 25:35165
radiation effects on catecholamine content and enzyme activity in adrenal glands and brain of, lethal whole-body x, 24:25387(R) (YALE-3960-2)
radiation effects on cell count in bone marrow of, protective effects of cysteamine against x, 23:38626
radiation effects on cell count in peripheral blood of, γ, 22:6772 (ORNL-4168, pp 61-118)
radiation effects on cell cycle distribution of erythroid stem cells in bone marrow of, continuous γ, 24:12253
radiation effects on cell differentiation in cerebellum of, x, 21:20316(R) (COO-1201-10)
radiation effects on cell division and mitosis in bone marrow of, comparison of γ and proton, 23:35869(T) (JPRS-47582, pp 29-35)
radiation effects on cell populations in lens of eyes of, effects of half shielding on x, 21:28588(R) (COO-1024-23)
radiation effects on cell proliferation and regeneration in liver of, following partial hepatectomy, effects of prior continuous exposure on γ, 22:31211
radiation effects on cell proliferation in intestine of, effects of LET on γ, 22:6903
radiation effects on cell renewal systems in hematopoiesis and intestinal mucosa of, comparison of lethal neutron and x, 22:49491 (UCSF-10-P-2-40)
radiation effects on cell structure of neurons of hypothalamus of, acute γ, 22:49186
radiation effects on cells and tissues of nervous system of, RBE for fast neutron, 25:52219
radiation effects on cells in bone marrow of, criteria for evaluating, 21:36728
radiation effects on cells in tumors of, comparison of proliferating and non-proliferating, x, 24:34569
radiation effects on cells of bone marrow, liver, and thrombocytes of, electron microscopy of manganese-54 γ, 22:38452
radiation effects on cells of ganglionic and granular layers of cerebellum of, ionizing, 24:12272
radiation effects on cells of hippocampus in young, 40-MeV proton, 24:23297 (CONF-690501-, pp 799-822)
radiation effects on cells of subependymal layer of brain of, following injection of tritium-labeled thymidine, β, 22:40861
radiation effects on cells of, variations in radiosensitivity following virus infection, γ, 21:14741
radiation effects on cellular components of lungs of, effects of partial and whole-body exposure on x, 23:45916
radiation effects on cellular proliferation in thyroid of, tritium tracer study of, 24:19354
radiation effects on cellular proliferation in, given tritiatedthymidine-labeled DNA, 21:8911(R) (NYO-2778-4)
radiation effects on cellular structure of thyroid gland of, iodine-131, 25:49078 (COO-1784-24)
radiation effects on cellular ultrastructure in transplants of thyroid gland of, effects of dose on x, 22:12813
radiation effects on central nervous system function in, short and ultrashort radio wave, 25:16323
radiation effects on central nervous system in, combined effects of vibration with γ, 21:16437(T) (JPRS-38272, pp 334-5)
radiation effects on central nervous system in, lethal electron, 24:21293
radiation effects on central nervous system of embryos of, x, 21:28605
radiation effects on central nervous system of, combined effects of convulsant drugs on x, 22:47625
radiation effects on central nervous system of, following exposure at 4 days of age, 300 R whole-body γ, 24:32222

radiation effects on central nervous system of, following prenatal exposure, protective effects of AET against x, 22:45623
radiation effects on central nervous system of, following prenatal exposure, 21:24538 (CONF-631008, pp 37-47)
radiation effects on central nervous system of, review of research on, 25:58143
radiation effects on central nervous system of, x, 22:14906 (BNL-50057, pp 123-37)
radiation effects on cerebellar cortex of neonatal, regeneration following x, 24:6125
radiation effects on cerebellum during postnatal development, dose dependence of behavior following x, 25:37871(R) (COO-2000-72)
radiation effects on cerebellum in infant, x, 23:41459
radiation effects on cerebellum of, during postnatal development, behavior following low level x, 25:37872(R) (COO-2000-73)
radiation effects on cerebral cortex of, γ, 22:33906(R) (UCLA-34-P-132-S-1)
radiation effects on cerebral hemisphere of fetal, effects of cell recovery and split dose on x, 24:23345 (CONF-690501-, pp 779-97)
radiation effects on cerebral hemispheres in, effects of hypertension on latent x, 25:42667
radiation effects on cerebrosides and phospholipids in brain of, protective effects of cysteine against x, 25:42620
radiation effects on ceruloplasmin activity in blood serum of, effects of dose on x, 24:41771
radiation effects on cesium-134 retention in, γ, 21:24624
radiation effects on cesium-137 metabolism in, comparison of low temperatures with partial and whole-body x, 25:21544 (AD-464714)
radiation effects on cesium-137 retention in, combined effects of drugs, electrical injury, stress factors, and, 25:47005
radiation effects on cesium-137 sorption through skin of, effects of contamination timing on γ, 25:26595
radiation effects on changes in cell populations in, after treatment with homologous bone marrow cells, 23:50846
radiation effects on chemical composition of blood and urine of, 21:39319(R) (AD-631232)
radiation effects on chemistry and histology of liver of, x, 22:442
radiation effects on cholesterol and neutral fat content in liver of, effects of time on, x, 22:36198
radiation effects on cholesterol biosynthesis in liver of, effects of adrenalectomy and corticosteroids on, 21:16295
radiation effects on cholesterol levels in, neutron and x, 21:20391
radiation effects on cholesterol metabolism of, uv, 21:10809
radiation effects on cholesterol-fed, uv, 21:10809
radiation effects on choline acetyltransferase activity in central nervous system of, neonatal whole-body x, 23:45644 (UCB-34-P-82-8)
radiation effects on choline content of liver of, effects of dose on fission neutron, γ, and proton, 22:47490
radiation effects on choline metabolism in phospholipids of blood and marrow cells in, strontium-90 β, 22:10675 (BNWL-480, pp 21-54)
radiation effects on cholinesterase activity in brain of, x, 22:19241
radiation effects on cholinesterase activity in brain of, effects of adrenal and pituitary gland function on x, 25:35232
radiation effects on cholinesterase activity in liver and muscles of, thermal neutron and x, 22:23446
radiation effects on cholinesterase activity in, neutron and x, 22:19296
radiation effects on cholinesterase and hexokinase activity in brain and heart of, effects of adrenal hormones on x, 25:57929
radiation effects on chromatographic profile of DNA of liver of, sensitizing effects of p-hydroxymercuribenzoic acid on, 25:21745
radiation effects on chromoproteins of, in relation to radiosensitivity, 900 R x, 24:34608(T) (ANL-Trans-804)
radiation effects on chromosomes and postnatal development following in utero exposure, γ, 25:52224
radiation effects on chromosomes in bone marrow of, internal radium-226 alpha and γ and strontium-90 β, 22:51945
radiation effects on chromosomes of bone marrow cells of, aberrant x, 23:22266
radiation effects on chromosomes of embryos of, technique for demonstrating fast neutron, 23:43871
radiation effects on circulating eosinophil count in, effects of ACTH and corticoid content on local and whole-body x, 22:23631
radiation effects on circulating iron in blood of, zinc-65 γ and positron, 23:31639 (CONF-670649-6)
radiation effects on circulation in mucosa and muscle layer of small intestine in, rubidium-86 subtraction method for determining x, 23:33862
radiation effects on circulatory system in transplanted Walker carcinoma tumors in, revascularization following, 25:19111
radiation effects on coagulation and fibrinolysis of blood of, protective effects of cystamine and bone marrow nucleic acids against x, 25:42537
radiation effects on coagulation of acetylcholine and serotonin by blood and tissues of, 24:16982
radiation effects on coenzyme A content of liver and placenta of, carbon-14 tracer study of x, 23:29802
radiation effects on coeruloplasmin activity in blood serum of, comparison of K_3-vitamin and monoiodoacetic acid effects with x, 25:8612
radiation effects on cold resistance of, x, 23:26904
radiation effects on cold tolerance, effects of postexposure time on x, 24:51046
radiation effects on coliform bacteria content in intestine of, 21:14772 (BNWL-280, pp 8-10)
radiation effects on collagen content in lungs of, x, 21:14525 (BNWL-280, pp 74-6)
radiation effects on collagen content of skin wounds in, cobalt-60 γ, 24:872
radiation effects on collagen formation in wound matrix in, carbon-14 tracer study of x, 24:14424
radiation effects on collagen metabolism in skin of, relation of wounds to x, 24:16960
radiation effects on compensatory hypertrophic growth of kidney of, x, 21:26533
radiation effects on composition and content of blood serum proteins of juvenile, x, 25:52192
radiation effects on composition and thyroxine-binding capacity of blood serum proteins in, whole-body γ, 22:49236
radiation effects on composition of lipids in liver of, x, 21:22299
radiation effects on composition of lipids in serum of, x, 21:22299
radiation effects on composition of non-saponifiable fraction of skin of, uv, 23:48207
radiation effects on composition of peripheral blood, incidence of osteoma, and life span of, following intraperitoneal administration of cerium-144 and/or plutonium-239, α and β, 25:24323(T) (AEC-tr-7195, pp 339-46)
radiation effects on conditioned behavior of, 21:28594(R) (ORO-2903-33)
radiation effects on conditioned behavior of, x, 21:6688
radiation effects on conditioned reflex activity of, pulsed and nonpulsed microwave, 22:43471
radiation effects on conditioned reflex behavior of, following prenatal exposure to low doses, x, 24:23319 (CONF-690501-, pp 301-12)
radiation effects on conditioned reflex behavior of, effects of dose on microwave, 24:9939
radiation effects on conditioned reflexes of, combined effects of acceleration or vibration and x, 23:16402
radiation effects on conditioned reflexes of, combined effects of vibrations on x, 22:12759(T) (NASA-TT-F-413, pp 229-43)
radiation effects on conditioned reflexes of, comparison of γ, neutron, and proton, 21:6436
radiation effects on conditioned reflexes of, comparison of fast neutron, γ, and proton, 22:12755(T) (NASA-TT-F-413, pp 158-74)
radiation effects on conditioned reflexes of, effects of age on x, 22:25965
radiation effects on conditioned reflexes of, effects of dose on whole-body γ, 22:12756(T) (NASA-TT-F-413, pp 175-91)
radiation effects on conditioned reflexes of, uv, 21:413
radiation effects on conditioned response behavior in, effects of dose on prenatal x, 24:25571
radiation effects on conditioned response of, following head or whole-body exposure, x, 23:29777
radiation effects on conditioned-reflexes of, microwave, 21:26425
radiation effects on conditioning of, to sucrose compared with ozone, x, 21:28593(R) (ORO-2903-32)
radiation effects on connective tissue of, effects of cortisone and anabolic steroids on x, 25:8786
radiation effects on connective tissues in skin of, following chronic exposure, uv, 23:2930
radiation effects on consumption by, of water flavored with hydrochloric acid and quinine, x, 22:38426(R) (NYO-3698-1)
radiation effects on contact digestion in intestine of, x, 21:6665
radiation effects on contact digestion in, x, 22:47624
radiation effects on content and type of proteins in blood of, effects of treatment with mumie on x, 25:6714
radiation effects on content of acetyl CoA in tissues of, low dose x, 24:51045
radiation effects on content of acid-soluble deoxypyrimidines in nucleated blood clot cells in, effects of dose on, 24:7746
radiation effects on content of acid-soluble free nucleotides in liver of, effects of dose on γ and x, 22:51914
radiation effects on content of adenine nucleotides in blood cells, liver, and mitochondria of, whole-body ionizing, 22:51484
radiation effects on content of adenosine triphosphate in liver, spleen, and testis of, x, 24:50730
radiation effects on content of adrenalin and noradrenalin in organs of, whole-body γ, 24:7994
radiation effects on content of alkaline phosphatase in leukocytes of, effects of dose on thermal neutron, 23:41461
radiation effects on content of amino acids in brain of, x, 22:23447
radiation effects on content of amino acids in brain of, whole-body x, 21:10738
radiation effects on content of amino acids, DNA, and nucleotides in tissues of, method for measuring x, 22:8441
radiation effects on content of amino compounds in plasma of, 22:419 (AD-648223)
radiation effects on content of ammonia and glutamine in brain of pharmacologically adrenalectomized, whole-body x, 24:2575
radiation effects on content of ammonia and glutamine in brain of, effects of pharmacological ablation of adrenal cortex on x, 24:50721
radiation effects on content of antibodies and cytotoxins in blood of, cerium-144 β and γ, polonium-210 α and γ, 23:29316
radiation effects on content of antioxidants and lipoperoxides in tissues of, effects of dose rate on γ, 21:41349
radiation effects on content of antioxidants in organs of, 21:20093
radiation effects on content of aromatic amines in blood and urine of, effects of dose on x, 25:52268 (A/CONF.49/P-538)
radiation effects on content of ascorbic acid in adrenal glands of, effects of destruction of hypothalamic neurons on γ, 24:14430
radiation effects on content of ATP in thymocytes of, effects of adenine on x, 25:26936
radiation effects on content of biogenic amines in, in relation to radiosensitivity, 23:17920
radiation effects on content of β-aminoisobutyric acid and taurine in urine of, 22:31264
radiation effects on content of β-aminoisobutyric acid in liver, x, 21:6444
radiation effects on content of β-lipoproteins in organs and tissues of, x, 22:8488
radiation effects on content of cerebrosides in brain of, effects of prenatal exposure on x, 22:33924
radiation effects on content of choline in liver of, fission neutron, γ, and proton, 22:21434
radiation effects on content of chondroitinsulfuric acid and hyaluronic acid in organs of, whole-body x, 23:43706
radiation effects on content of collagen in lungs of, following plutonium-239 inhalation, α, 22:10825 (BNWL-480, pp 55-83)
radiation effects on content of complement in blood serum of, use of Paramecium caudatum for determination of, 21:45795
radiation effects on content of corticosteroid in adrenals and blood of, whole-body x, 23:10055
radiation effects on content of corticosteroids in adrenal glands and blood of, x, 22:23616
radiation effects on content of cytochromes, DNA, nucleotides, proteins, and RNA in adrenals of, effects of ACTH on x, 23:16231
radiation effects on content of cytochromes, enzymes, and nicotinamide nucleotides in adrenal glands of, combined effects of ACTH on whole-body x, 22:14957
radiation effects on content of deoxycytidine in blood plasma of, use of, for dosimetry, x, 22:43201 (AD-664676)
radiation effects on content of disulfide and sulfhydryl proteins in tissues of, ionizing, 22:51485
radiation effects on content of disulfide groups and thiols in plasma of, in relation to proteinemia, x, 23:12017
radiation effects on content of DNA and RNA in tumor cells of, combined effects of cooling on x, 21:39334
radiation effects on content of DNA, enzymes, and protein in intestinal homogenates of, x, 23:50348
radiation effects on content of enterochromaffin cells in intestine of, protective effects of mercamine and serotonin against, 24:17065
radiation effects on content of enterochromaffine cells in, following exposure to minimum lethal doses, 23:38776
radiation effects on content of enzymes in liver of, effects of glucagon, hydrocortisone, and starvation in whole-body, 22:19271
radiation effects on content of fat, glycogen, and nucleic acids in, effects of direct electric current on x, 23:9878
radiation effects on content of fatty acids and phosphatides in liver of newborn, x, 22:10699
radiation effects on content of fatty acids and total lipids in heart muscles and kidneys of, whole-body x, 22:33921
radiation effects on content of fatty acids in blood plasma of fetal and maternal, x, 22:49565
radiation effects on content of fatty acids in kidneys of, x, 23:50312
radiation effects on content of free radicals in blood, liver, and spleen of, effects of dose on γ and fast neutron, 24:9760
radiation effects on content of fructose-1,6-diphosphate in thymocytes of, effects of dose on x, 23:20322
radiation effects on content of glucose and glycogen in, following in utero exposure, x, 24:34092
radiation effects on content of glucose in blood of, whole-body x, 21:24630
radiation effects on content of glycogen in liver of, whole-body x, 21:24630
radiation effects on content of γ-aminobutyric acid in cerebral cortex of, neutron, 23:2947
radiation effects on content of hexosamines, hexoses, and proteins in serum of, whole-body x, 22:40909
radiation effects on content of histamine and mast cells in skin of, at 12 and 30 keV, x, 25:16353
radiation effects on content of histones and acid-soluble proteins in thymus of, whole-body γ, 22:40540
radiation effects on content of hyaluronidase and monosaccharides of hyaluronic acid in, effects of tissue permeability on x, 21:8726
radiation effects on content of hydroxyproline and lipids in lungs of, x, 22:10825 (BNWL-480, pp 55-83)
radiation effects on content of iodine-131-labeled triiodothyronine in central nervous system of, x, 23:47964
radiation effects on content of kininogens and kinin-forming activity in plasma of, lethal, whole-body γ, 25:29681
radiation effects on content of lactate dehydrogenase in, whole-body x, 21:32757
radiation effects on content of lipid peroxides in tissues of, whole-body x, 21:8852
radiation effects on content of lipid peroxides in brain, intestine, liver, and spleen of, effects of shielding head and abdomen on, 23:33633
radiation effects on content of lipids and proteins in serum of, effects of dose on whole-body, 24:48433
radiation effects on content of lipids in fetal and pregnant, acute x, 23:4884
radiation effects on content of lipids in fetal and maternal liver and content of fatty acids in maternal serum of pregnant rats, whole-body x, 23:31659
radiation effects on content of lipids in tissues of, cerium-144 β and γ, 23:9865

radiation effects on content of myelin and neuroglia in spinal cord of, x, 21:14716
radiation effects on content of NAD and NADP in organs of, effects of ATP and nicotinamide on, 25:13379
radiation effects on content of nitrogen and tryptophan oxygenase in liver of, effects of ethionine on x, 23:10046 (NP-17514, pp 47-62)
radiation effects on content of nucleotides in spleen of, effects of dose rate on γ, 24:11969
radiation effects on content of protein-bound iodine and thyroid gland condition in, during radiation sickness, cobalt-60 γ, 24:12305
radiation effects on content of proteins in skin of, x, 23:29358
radiation effects on content of pyridine nucleotides in liver mitochondria of, γ, 24:11932
radiation effects on content of pyridine nucleotides in liver of, whole-body x, 21:22292
radiation effects on content of pyrimidines in plasma and urine of, whole-body x, 23:7946
radiation effects on content of quinone-type toxins in bone marrow and liver of, methods for detection of, 22:49512
radiation effects on content of quinones in, γ, 21:36522
radiation effects on content of quinones in, in relation to development of radiation sickness, 23:17919
radiation effects on content of RNAase in blood plasma and tissues of, whole-body x, 22:40538
radiation effects on content of serotonin and count of enterochromaffin cells in, whole-body x, 24:7998
radiation effects on content of serotonin in central nervous system of, phosphorus-32 β, 22:21417
radiation effects on content of serum intestinal alkaline phosphatase in, comparison of abdominal and whole-body exposure, x, 24:27528
radiation effects on content of serum protein fractions in, chronic low-level x, 21:8927
radiation effects on content of serum proteins in, immunodiffusion and immunoelectrophoresis methods for measuring lethal whole-body γ, 25:24421
radiation effects on content of sialic acid in blood serum, brain, heart, and liver of, low-dose x, 24:14420
radiation effects on content of sialic acids in tissues of, 1 hr to 30 days after exposure to 13.5 rad neutron doses, 24:23124
radiation effects on content of sugar in blood of, mechanisms in cobalt-60 γ, 23:901 (CEA-R-3396)
radiation effects on content of sulfur-containing amino acids in organ proteins in, chromatographic study on x, 25:42265
radiation effects on content of taurine in organs and urine of, 22:28374
radiation effects on content of thiol groups in proteins of cell nuclei of liver of, x, 24:11970
radiation effects on content of vitamin C in bone marrow, spleen, and testes of, γ, 22:25763
radiation effects on contents of soluble fats and proteins in myocardium of, whole-body x, 22:40579
radiation effects on contitioned reflex response of, combined effects of vibration on x, 21:16436(T) (JPRS-38272, pp 336-7)
radiation effects on contractility of heart muscle of, electrocardiography of x, 21:39505
radiation effects on coordination, muscular strength, and spontaneous locomotion in adult, following neonatal exposure of cerebellum, quantitative effects of age, prior experience, and treatment on x, 24:41972
radiation effects on coprophagic eating behavior of, effects of postexposure housing on whole-body x, 24:51047
radiation effects on corneal cells of, ruby laser, 21:43497 (AD-645452)
radiation effects on corneal epithelium of eyes of, effects of dose on aberrant laser, 22:8452
radiation effects on corticosteroid content in blood of adrenal vein in, effects of, on balance of glucocorticoids and mineralocorticoids, whole-body x, 24:34115
radiation effects on corticosteroid content of adrenal glands and blood in, effects of dose and sex on x, 25:24054
radiation effects on corticosteroid content of adrenal glands and blood, x, 21:22327
radiation effects on corticosterone and eosinophil contents in blood plasma of, combined effects of electrode stimulation and whole-body x, 25:47009
radiation effects on corticosterone and glucose content of blood in, effects of dianabol and insulin on normalization following whole-body γ, 25:10972
radiation effects on corticosterone content of adrenal glands and blood in, effects of dose on whole-body x, 24:48408
radiation effects on corticosterone content of adrenal glands and blood plasma of, protective effects of testosterone propionate against, 22:51797
radiation effects on corticosterone content of blood of, protective effects of cystaphos against, 23:29774
radiation effects on cortisol-induced glycogen synthesis in liver of, effects of adrenalectomy on x, 22:40834
radiation effects on count of blood cells of, effects of hyperbaric oxygen on whole-body x, 23:38819
radiation effects on count of cells in peripheral blood of, combined effects of open skin wounds on x, 22:45707
radiation effects on course of Klebsiella infection in, x, 21:22764
radiation effects on course of typhus infection in, x, 21:18170
radiation effects on course of typhus infection in, whole-body x, 21:18169
radiation effects on crypt cells in intestinal epithelium of, x, 23:10036
radiation effects on cultured epithelial cells from oral mucosa of fetal, low-dose x, 24:41989
radiation effects on cultured thymocytes from, effects of strain on x, 23:14260
radiation effects on cytochrome c peroxidase activity in tissues of, effects of acidity and catalase inhibition on, 25:52202
radiation effects on cytochromes and membranes of mitochondria in thymus of, γ, 22:45426
radiation effects on cytology of cultured nerve ganglia of, x, 21:22668
radiation effects on cytology of mast cells in blood of, use of saponin-hemolysis method for study of x, 22:40525
radiation effects on cytology of thyroid gland in, iodine-125 and iodine-131, β and γ, 24:19282
radiation effects on degree of saturation of fatty acids in lungs of, lethal, whole-body x, 23:35636
radiation effects on dehydrogenase activity in brain of, high dose x, 24:29875
radiation effects on dehydrogenase activity in hematopoietic tissues of, x, 21:26557(R) (NYO-1680-1)
radiation effects on delayed hypersensitivity in, whole-body x, 25:2540
radiation effects on dendritic potentials in brain of, ionizing, 24:9928
radiation effects on dentin formation in, x, 24:6124
radiation effects on deoxycytidine excretion in urine of, following intravenous injection of cerium-144, 24:11942
radiation effects on deoxyribonucleoproteins in thymus of, effects of dose and post-exposure time on whole-body γ, 25:44763
radiation effects on depletion rate of oocytes of, effects of age on, 23:31941
radiation effects on deposition of fibrinogen in tumor-bearing, effects of epsilon aminocaproic acid on x, 22:49486(R) (NYO-3359-4)
radiation effects on deposition of phosphorus-32 in tissues of, γ, 21:34592
radiation effects on desoxycytidine excretion by, tritium β, 23:22366(T) (AEC-tr-6944, pp 274-80)
radiation effects on detoxication of benzoate and resorcinol in, role of coenzyme A in x, 22:23474
radiation effects on developing brain of fetuses of, histological x, 21:34764
radiation effects on developing dental tissues of, effects of age on x, 22:4696
radiation effects on developing embryos and fetuses of, teratogenetic fast neutron, 23:50868
radiation effects on developing embryos of, effects of dose on teratogenic x, 21:34644
radiation effects on developing eyes of, x, 24:21267(R) (NP-18090)
radiation effects on developing fetuses of, 21:6643
radiation effects on developing form and function of nervous system of, in comparison to effects of ablation, 24:25560(R) (COO-1201-28)
radiation effects on developing testes of albino, γ, 21:20418
radiation effects on development and estrogenic activity of ovaries in, x, 22:33959
radiation effects on development and mortality of, following exposure in utero, γ, 22:38460
radiation effects on development and survival of embryos of, following whole-body exposure of pregnant females, protective effects of AET against x, 25:44832
radiation effects on development and survival of, review of effects of perinatal exposure on γ and x, 23:33837 (UR-49-1111)
radiation effects on development of arthritis in, receiving bone marrow cell transplants, x, 23:41269
radiation effects on development of bones in embryos of, following exposure in utero, x, 24:46658
radiation effects on development of cerebellum of, histological study of x, 24:51038
radiation effects on development of ciliated epithelium and rudimentary cilia in lungs of, x, 22:579
radiation effects on development of embryos and placenta in, x, 21:20362
radiation effects on development of embryos in, protective effects of hypothermia on x, 21:28656
radiation effects on development of encephalomyelitis in immunized, x, 24:14439
radiation effects on development of enzymes and related biochemical systems in, following intrauterine exposure, 25 or 50 R x, 24:23107 (CONF-690501-, pp 899-911)
radiation effects on development of erythropoietic stem cells in bone marrow of, combined effects of nitrogen mustards on x, 23:10074
radiation effects on development of experimental allergic encephalomyelitis in, x, 23:43710
radiation effects on development of fetal, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on development of fetuses in pregnant, effects of phase of pregnancy on fast neutron, 23:24747
radiation effects on development of fetuses of, tritium β, 24:23317 (CONF-690501-, pp 283-7)
radiation effects on development of hearts of fetuses and progeny of, following strontium-90 administration to maternal parent, 25:23988(T) (AEC-tr-7195, pp 413-21)
radiation effects on development of hemorrhagic and traumatic shock by, following high-dose whole-body lethal, 24:44593
radiation effects on development of mammary carcinomas in, synergism between diethylstilbestrol and, 25:27011
radiation effects on development of muscle spindles of, x, 24:25566
radiation effects on development of nervous system of, x, 21:20316(R) (COO-1201-10)
radiation effects on development of nervous system of, in comparison to effects of ablation, 25:42615(R) (COO-1201-30)
radiation effects on development of neurons in brain of, effects of age on x, 22:23597(R) (MIT-3045-34)
radiation effects on development of peritoneal adhesions in, effects of exposure of abdomen on electrons, 24:21303
radiation effects on development of tail bones in, radiographic illustrations of, 21:419
radiation effects on development of teeth of, histological study of x, 22:45697
radiation effects on development of testes in, following prenatal exposure, effects of dose-rate on γ, 23:10049 (ORO-661, pp 4-13)
radiation effects on diet of, effects of, on lymphocyte count in peripheral blood, γ, 21:34774
radiation effects on differential blood count of, protective effects of DNA against γ, 23:12133(T) (AEC-tr-6646/4A, pp 91-6)
radiation effects on differentiation and growth of epithelium transplants in, sulfur-35 tracer study of x, 23:41440
radiation effects on differentiation of immunologically competent transplanted cells in, 21:22651(R) (EUR-3261.i)
radiation effects on digestion in intestine of, x, 22:49509
radiation effects on digestive and phagocytic functions of reticulo-endothelial system of, tracer study of ionizing, 22:23610
radiation effects on discrimination behavior of, effects of dose and dose fractionation on x, 23:26874 (N-68-36069)
radiation effects on diseases of, effects of dose fractionation on severity of x, 21:24549 (UCLA-12-616)
radiation effects on distribution of acid phosphatase and β-glucuronidase in liver and spleen of, whole-body x, 25:42628
radiation effects on distribution of glycogen in liver of, whole-body x, 21:24630
radiation effects on distribution of isoamylases in body fluids and organs of fetal and adult, following maternal exposure, whole-body x, 23:7947
radiation effects on distribution of phosphorus-32 in blood serum proteins, brain, and liver of, proton, 22:52001
radiation effects on distribution of silver nitrate in brain tissues of, chronic γ, 22:38457
radiation effects on distribution of Substance P in intestines and nervous system of, whole-body x, 21:43537
radiation effects on distribution of substance P in central nervous system and small intestines of, effects of age on whole-body x, 22:36201
radiation effects on DNA and DNase II activity in thymus of, methods for determining lethal and sublethal whole-body x, 25:24048
radiation effects on DNA and RNA content in spleen cells of, effects of homologous bone marrow transplants on lethal x, 25:24388
radiation effects on DNA and RNA content of bone marrow and spleen of, protective effects of Mumie against x, 25:16231
radiation effects on DNA and RNA content of organs of, effects of sodium gallate on x, 24:50713
radiation effects on DNA catabolism in, γ, 23:50359
radiation effects on DNA content and nuclei of epidermal cells of, uv, 22:49253
radiation effects on DNA content and nuclei of epidermal cells of, uv, 22:49253
radiation effects on DNA content in liver of, 21:11097
radiation effects on DNA content in nuclei of lens epithelial cells in, x, 21:32576
radiation effects on DNA content of nuclei in lymphocytes of liver and spleen in, whole-body x, 22:21433
radiation effects on DNA content of thyroid cells of, iodine-131 β and γ, 23:772(R) (COO-1243-13)
radiation effects on DNA content of transplanted Yoshida sarcomas in, effects of low temperature on, 23:14261
radiation effects on DNA distribution in, carbon-14 study of, 21:20068
radiation effects on DNA from hepatectomized, effects of dose and time on, 25:27020
radiation effects on DNA in liver and thymus glands of, 23:24514
radiation effects on DNA in liver of, 22:51450
radiation effects on DNA in liver of, mechanisms of repair following whole-body x, 23:35650
radiation effects on DNA in mitochondria of liver of, effects of age and dose on x, 23:22235
radiation effects on DNA in regenerating liver of, x, 23:20376
radiation effects on DNA in tissues of, sensitizing effects of hydroxymercuribenzoic acid on, 25:42535
radiation effects on DNA metabolism in isolated perfused intestine of, x, 22:49227
radiation effects on DNA metabolism in liver and intestine of, x, 21:24545(R) (EUR-3263.e)
radiation effects on DNA metabolism in organs of embryonic, whole-body x, 21:30887
radiation effects on DNA metabolism in tissues from, labeled-thymidine study of x, 21:22258
radiation effects on DNA of liver of kangaroo, effects of environmental contamination on tritium β and γ, 22:49184 (UCRL-50461)
radiation effects on DNA of liver of, protective effects of AET against x, 24:745
radiation effects on DNA of lymphocytes of, fluorescent-cytochemical method for detection of in vitro or in vivo, 24:34079
radiation effects on DNA of thymus of, effects of hydrodynamic forces following, 22:49198
radiation effects on DNA of, whole-body γ, 21:8989
radiation effects on DNA synthesis and enzyme activity in, effects of phenobarbital on x, 25:44934
radiation effects on DNA synthesis and mitosis in regenerating liver of, x, 23:17914
radiation effects on DNA synthesis and mitosis in corneal epithelium of, strontium-90 β, 22:45411

radiation effects on DNA synthesis and mitosis in lens epithelium of, effects of wounds on x, 24:23354(R) (COO-1024-35)
radiation effects on DNA synthesis and mitosis in liver of, regeneration studies on x, 25:44918
radiation effects on DNA synthesis and mitosis in corneal epithelium of, β, 23:2781
radiation effects on DNA synthesis and mitosis in eye tissues of, strontium-90 β, 22:45655
radiation effects on DNA synthesis and mitotic index of embryonic heart cells in, x, 24:51014
radiation effects on DNA synthesis and mitotic index in regenerating liver of, phosphorus-32 β, 23:6369
radiation effects on DNA synthesis and quantity of DNA polymerase in liver of, x, 23:909
radiation effects on DNA synthesis by tumors of, effects of dose fractionation on x, 22:2481
radiation effects on DNA synthesis in brain of, x, 21:20034 (UCLA-12-612, pp 15-36)
radiation effects on DNA synthesis in embryonal cerebrum of, x, 23:22424
radiation effects on DNA synthesis in embryos of, x, 21:14584
radiation effects on DNA synthesis in intestine and liver of, x, 22:12814
radiation effects on DNA synthesis in liver of, x, 24:44602
radiation effects on DNA synthesis in lymphocytes of, as indicator of dose, in vitro effects of phytohemagglutinin on, 25:42404
radiation effects on DNA synthesis in lymphoid tissues of, effects of adrenalectomy on subsequent inhibitory whole-body γ, 25:29672
radiation effects on DNA synthesis in thyroid gland of, β, 22:2534(R) (COO-1243-8)
radiation effects on DNA synthesis in thyroid gland of, β, 21:41367
radiation effects on DNA synthesis, estrogen stimulation, and mitosis in vaginal epithelium cells of, effects of dose on γ, 24:46576
radiation effects on DNA-histone ratio in liver, spleen, and thymus of, 24:21079
radiation effects on DNAase content of urine of, diagnostic value of neutron, 22:33919
radiation effects on DNAase II activity in blood serum, bone marrow, and spleen of, strontium-90 β, 22:8487
radiation effects on DNAse activity in urine of, effects of cystamine on, x, 21:22329
radiation effects on DNase II from, combined effects of HN3 and TEM with x, 21:20081
radiation effects on DNP in thymus of, determination of, by centrifugation and electric birefringence, x, 24:591
radiation effects on dorsal root ganglia in, cytological studies of x, 21:24558
radiation effects on drug-metabolizing enzyme system in liver microsomes of, 23:41252
radiation effects on early development of embryos in, strontium-90 and yttrium-90 β, 22:28275 (NYO-2147-13, pp 11-15)
radiation effects on ecology of populations of, following atomic explosions at Eniwetok Atoll, 24:9806
radiation effects on EEG phases during sleep in, lethal x, 23:2928
radiation effects on elasticity, lecithin metabolism, and surface activity in lungs of, 25:21859
radiation effects on elastin content in lungs of, x, 21:14525 (BNWL-280, pp 74-6)
radiation effects on electric conductivity level of tissues of progeny of, effects of maternal dose on chronic strontium-90 β, 25:24320(T) (AEC-tr-7195, pp 309-13)
radiation effects on electric potential and permeability of gastric mucosa of, 23:31637 (AD-683308)
radiation effects on electric potential of skin of, thermal and x, 21:16516
radiation effects on electric responses in cortex of mature, prenatal x, 25:32543
radiation effects on electrical activity of olfactory cortex of, combined effects of drugs on x, 23:20401
radiation effects on electrical conductivity of skin of, uv, 21:20389
radiation effects on electrical responses of brain of, γ, 24:9763
radiation effects on electrocardiogram of, cobalt-60 γ, 22:45664
radiation effects on electroencephalogram of, protective effects of AET on x, 22:15103
radiation effects on electrolyte absorption in intestine of, x, 21:14538 (BNWL-280, pp 4-8)
radiation effects on electrolyte distribution in abdomen-irradiation, lethal x, 23:41239
radiation effects on electrolyte metabolism in, combined effects of open skin lesions and, 25:55332
radiation effects on electrolyte metabolism in, in relation to adrenal cortex function, acute polonium-210 γ, 22:49608
radiation effects on electrolyte transport and voltage measurements in isolated ileum from, x, 22:49543
radiation effects on electrolyte transport and voltage differential across intestinal wall from, in vitro, x, 24:7759
radiation effects on electrolyte transport in intestines of, x, 22:10824 (BNWL-480, pp 1-19)
radiation effects on electrolytes in heart muscle of, effects of adrenalectomy on, 25:16351
radiation effects on electrophoretic activity of proteins from kidney of, x, 23:2762
radiation effects on electrophoretic behavior of isoenzymes of liver and myocardium of, 24:16988
radiation effects on electrophoretic behavior of proteins from lungs of, x, 22:51423
radiation effects on electrophoretic patterns of protein fractions of spleen of, effects of heating on x, 21:30790
radiation effects on electroshock response in developing, whole-body x, 21:24650
radiation effects on electroshock seizure threshold of, effects of age and diphenylhydantoin on x, 25:46892
radiation effects on electroshock seizures in, effects of dose on proton and x, 23:20396
radiation effects on elimination of 17-ketosteroids in, comparison of orchiectomy and, 25:4707
radiation effects on embryogenesis in, effects of stage of development on x, 25:24356
radiation effects on embryonic development and survival in, following maternal exposure, x, 23:14276
radiation effects on embryonic development of central nervous system and postnatal behavior of, γ and x, 21:16498
radiation effects on embryonic development of central nervous system of, review of Soviet literature on prenatal, 21:24537 (CONF-631008, pp 2-36)
radiation effects on embryonic development of, x, 21:36708
radiation effects on embryos and fetuses of, effects of continuous exposure on γ, 22:10865
radiation effects on embryos of, following injection of radioisotopes, 24:23074 (CONF-690501-, pp 153-60)
radiation effects on embryos of, protective effects of diapause and progesterone against preconception x, 22:45642
radiation effects on embryos of, x, 21:45829
radiation effects on encephalograms of, x, 21:10951
radiation effects on endocrine function in, comparison following betatron bremsstrahlung and cobalt-60 γ, 24:27539
radiation effects on endocrine gland function in, relation between etiology of radiation sickness and x, 25:52194
radiation effects on endocrine glands of, x, 25:29633
radiation effects on energy and water—salt metabolism in brain of, sublethal, 24:51035
radiation effects on energy mechanisms in liver mitochondria of, protective effects of mustard gas solutions against x, 22:19378
radiation effects on energy metabolism in liver mitochondria of, effects of riboflavin on partial and whole-body, 25:29640
radiation effects on enzyme activities in intestines of neonatal, effects of prenatal exposure on, 24:50734
radiation effects on enzyme activities in liver of, effects of abdominal shielding on fractionated dose of x, 21:22301
radiation effects on enzyme activity and content of proteins in bone marrow of, x, 22:45414
radiation effects on enzyme activity and DNA content in developing brain of, x, 25:49286(R) (UCB-34-P-82-11)
radiation effects on enzyme activity and fat deposition in, effects of hyperbaric oxygen on cobalt-60 γ, 24:51059
radiation effects on enzyme activity and ferretin formation in spleen of, effects of partial shielding on whole-body lethal x, 24:25391
radiation effects on enzyme activity and growth of mandibular condyle of, 600 R whole-body x, 24:34651
radiation effects on enzyme activity and hematopoietic tissues in bone marrow of, effects of dose on x, 25:55330
radiation effects on enzyme activity and lipid fractions in liver and serum in, local x, 25:29685
radiation effects on enzyme activity and ultrastructure of thymus of, 24:4691
radiation effects on enzyme activity and ultrastructure of cells in small intestine of, sublethal cobalt-60 x, 23:38475
radiation effects on enzyme activity in adrenal glands of, histochemical study of x, 21:39358
radiation effects on enzyme activity in blood and urine in, whole-body x, 25:44932
radiation effects on enzyme activity in blood serum of, effects of dose on whole-body x, 25:52189
radiation effects on enzyme activity in duodenum and pancreas of, x, 23:50350
radiation effects on enzyme activity in liver and spleen in, x, 25:35215
radiation effects on enzyme activity in liver and spleen of, whole-body x, 21:39345
radiation effects on enzyme activity in liver and spleen of, x, 22:43226
radiation effects on enzyme activity in liver of, following oral administration of radon water, 25:32588
radiation effects on enzyme activity in liver, spleen, testis, and thymus of, x, 23:17933
radiation effects on enzyme activity in lungs of, effects of intratracheally injected blood on whole-body, 24:50719
radiation effects on enzyme activity in mitochondria of liver, spleen and thymus of, 21:22247
radiation effects on enzyme activity in mucous membrane of small intestine of, during radiation sickness, effects of age on γ, 23:38466
radiation effects on enzyme activity in plasma of, protective effects of dimethyl sulfoxide against x, 22:38358
radiation effects on enzyme activity in sarcoma cells of, x, 21:10821
radiation effects on enzyme activity in spleen of, combined effects of hormones and whole-body γ, 25:32532
radiation effects on enzyme activity in, protective effects of chemicals against ionizing, 24:34404
radiation effects on enzyme activity of glycolytic ferments in bone marrow of, x, 21:22362
radiation effects on enzyme activity of organs of, x, 23:20104
radiation effects on enzyme activity of pentose-phosphate cycle in erythrocytes of, whole-body x, 21:10750
radiation effects on enzyme activity of, comparison of, to radiomimetic effects, 22:49239
radiation effects on enzyme activity of, x, 21:20028(R) (ORO-3329-2)
radiation effects on enzyme and protein activity in, x, 24:29715
radiation effects on enzyme content in plasma of, protective effects of cystamine against, 21:34712
radiation effects on enzyme content of organs of, effects of dose on whole-body, 24:50756
radiation effects on enzyme ontogenesis in central nervous system of, following prenatal exposure, x, 24:34669
radiation effects on enzyme ontogenesis in, following intrauterine exposure, γ, 24:23349 (CONF-690501-, pp 975-84)
radiation effects on enzymes and pathways of thymine metabolism in, 22:45508(R) (PG-Report-826)
radiation effects on enzymes and ultrastructure of thymus of, x, 24:31847
radiation effects on enzymes for DNA synthesis in liver of, 21:45514
radiation effects on enzymes in liver microsomes of, localized and whole-body x, 22:33759
radiation effects on enzymes of liver of, x, 23:806
radiation effects on eosinophilia in, injected with Trichinella larvae, effects of reconstitution with bone marrow cells and lymphocytes on γ, 24:36724
radiation effects on ependymal and glial cells and subfornical organ in brain of, whole-body x, 25:24366
radiation effects on epiphyseal and metaphyseal blood vessels in, x, 21:41502
radiation effects on epithelium of small intestine in, histochemical studies for determining x, 24:34689
radiation effects on EPR of free radicals in lipids of, 21:34609
radiation effects on erythrocyte count and leukocyte count in cotton and rice, effects of dose on cobalt-60 γ, 24:32186
radiation effects on erythrocyte membranes in, chromium-51 elution studies on whole-body x, 25:24419
radiation effects on erythrocyte membranes of, β and γ, 23:47965
radiation effects on erythrocyte population in, analysis of cell volume for determination of whole body, 25:16304 (CEA-CONF-1591)
radiation effects on erythrocytes and leukocytes in, effects of dietary selenium on whole-body gamma, 25:27032
radiation effects on erythrocytes in, effects of dose rate on, use of electron microscope for studies of x, 23:45865
radiation effects on erythrocytes of adult and newborn, protective effects of serum proteins against dose dependence of γ, 21:36664
radiation effects on erythrocytes of, effects of age on γ, 22:12913
radiation effects on erythrocytes of, protective effects of chemicals against x, 23:20284
radiation effects on erythroid stem cell reproduction in, mathematical model for predicting recovery from x, 24:12254
radiation effects on erythropoiesis in spleen of, electrons and γ, 21:14585
radiation effects on erythropoiesis in, comparison with effects of anemia, γ, 23:29360
radiation effects on erythropoiesis in, effects of 400 to 800 R doses on, 24:11941
radiation effects on erythropoiesis in, effects of stem cell activity on x, 22:560
radiation effects on erythropoiesis in, effects of splenectomy on, 24:48395(R) (COO-2005-6)
radiation effects on erythropoiesis in, effects of 19-nortestosterone phenylpropionate on x, 22:36368
radiation effects on erythropoiesis in, effects of postirradiation bleeding on x, 24:866
radiation effects on erythropoiesis in, following chronic injection of iron-59, β and γ, 22:21450
radiation effects on erythropoiesis in, iron-59 tracer study of γ, 22:15098
radiation effects on erythropoiesis in, protective effects of hydrocortisone against whole-body, 22:10810
radiation effects on erythropoiesis in, tracer study of x, 21:45783 (ORAU-101, pp 53-5)
radiation effects on erythropoiesis in, x, 22:2532 (AD-647907)
radiation effects on erythropoietic activity in blood of, fractionated γ, 25:29655
radiation effects on erythropoietic system of, comparison of RBE of β, fast neutron, and x, 23:26894
radiation effects on escape, avoidance, and punishment behavior in juvenile, effects of gestation time on 196 R fetal whole-body x, 24:21283
radiation effects on esterase activity and protein content in plasma erythrocytes in, whole-body x, 25:29686
radiation effects on esterase activity and protein content of liver cells in, whole-body x, 23:38824
radiation effects on esterase activity in blood serum and liver of, x, 25:21902
radiation effects on esterase activity in extracts of erythrocytes, liver, spleen, and blood plasma of, effects of pH on whole-body x, 25:26600
radiation effects on estrous cycle in, following mid-brain exposure, x, 25:44927
radiation effects on estrous cycle in, tritium β, 23:22364(T) (AEC-tr-6944, pp 258-68)
radiation effects on ethanol metabolism in liver of, 22:19244
radiation effects on excretion of 2'-deoxycytidine by, effects of age, dose, and splenectomy on whole-body x, 22:12916
radiation effects on excretion of 5-hydroxyindoleacetic acid in, in relation to radiosensitivity, x, 22:28658
radiation effects on excretion of amines in urine of, sublethal x, 24:50754
radiation effects on excretion of anthranilic acid and xanthurenic acid in, x, 22:19383
radiation effects on excretion of ascorbic acid and riboflavin by, effects of diet on, 25:44947
radiation effects on excretion of benzoyl-glycine in, effects of stress on γ, 23:20398

radiation effects on excretion of β-aminoisobutyric acid, deoxyuridine, and thymidine by, combined effects of postexposure treatment with DNA or thymidine on whole-body γ, 23:43694
radiation effects on excretion of deoxycytidine and methyldeoxycytidine in urine of, following injection of cerium-144, β and γ, 23:11988 (SZS-11/68, pp 1-10)
radiation effects on excretion of deoxycytidine in urine of, x, 23:2954
radiation effects on excretion of deoxycytidine in urine of, x, 22:43461
radiation effects on excretion of deoxycytidine in urine of, effects of dose on combined γ and neutron, or x, 23:41430 (AD-688768)
radiation effects on excretion of deoxyribose, electrolytes, and proteins by, effects of dose on x, 25:24047
radiation effects on excretion of deoxyribosyl compounds in urine of, as indicator of radiation injury, 25:42622
radiation effects on excretion of deoxyuridine, 2-methyl-β-alanine, and thymidine by, effects of 50 to 700 R dose and body weight on whole-body, 24:27533
radiation effects on excretion of injected carbon-14-labeled nicotinic acid, whole-body x, 23:38489
radiation effects on excretion of MEA in urine of, whole-body, 25:42671
radiation effects on excretion of metabolic products of pyridine coenzymes by, effects of dose on x, 23:22222
radiation effects on excretion of nucleic acid metabolites in urine of, mechanism of effects of cysteamine on γ, 25:42625
radiation effects on excretion of p-aminobenzoic acid in urine of, 21:10790
radiation effects on excretion of pseudouridine in urine of, x, 23:2944
radiation effects on excretion of sulfur-35 by starved, after intraperitoneal injection as labeled sodium sulfate, x, 24:29712
radiation effects on excretion of taurine in urine of, effects of 100 to 1000 R doses on x, 25:502
radiation effects on experimental synovitis in, x, 24:34692
radiation effects on exposed liver of, biochemical and histological studies, x, 21:22269
radiation effects on extra-thyroidal and thyroid tissues in, protective effects of anti-thyroidal drugs and stable iodine against iodine-131 β and γ, 23:24694
radiation effects on extractable fractions and thermal stability of soluble muscle proteins of, x, 21:4765
radiation effects on eyes and testes of, effects of dose rate and prenatal exposure on γ, 25:16308 (ORO-678, pp 4-6)
radiation effects on eyes of embryonic, x, 21:28591(R) (NYO-2740-4)
radiation effects on eyes of, protective effects of cysteamine and glutathione against pathological x, 25:42538
radiation effects on eyes of, RBE of γ and x for cataract induction, 22:40854
radiation effects on fat matabolism in, effects of diet on whole-body, 21:28351
radiation effects on fatty acid content of, whole-body x, 23:18111
radiation effects on fatty acid synthesizing liver enzyme system of, γ and x, 24:583 (AD-689096)
radiation effects on fatty acid synthesizing liver enzyme systems in, cobalt-60 γ and x, 24:14418
radiation effects on fatty acids of liver mitochondria of, whole-body lethal and sublethal x, 22:33733
radiation effects on fear response of, whole-body γ, 22:10862
radiation effects on fearfulness of, 23:48211
radiation effects on fearfulness of, 23:48212
radiation effects on female, protective effects of AET, cystamine, and tetramethylcystamine against γ, 25:24215
radiation effects on ferrochelatase activity in tissues of, in vitro, 22:40590
radiation effects on fertility of male, effects of prenatal exposure on γ, 22:563
radiation effects on fertility of male, tritium β, 23:22388(T) (AEC-tr-6944, pp 503-13)
radiation effects on fertility of, following exposure of nine generations, x, 25:42321 (COO-697-23)
radiation effects on fertility of, protective effects of dietary fungus micelle against, 23:35780
radiation effects on fetal and neonatal, effects of stage of development on x, 24:41968
radiation effects on fetal and pregnant, tritium β, 24:23316 (CONF-690501-, pp 263-82)
radiation effects on fetuses of, effects of dose rate on cobalt-60 γ, 24:12230 (ORO-672, pp 3-11)
radiation effects on fetuses of, effects of, on postnatal radiosensitivity, γ, 22:40875
radiation effects on fetuses, ovaries, and reproductive capacity of cotton, γ, 25:26988
radiation effects on fibrinase activity in, γ, 21:26340
radiation effects on fibrinogen metabolism in, whole-body x, 21:22654(R) (NYO-3359-3)
radiation effects on fibrosarcoma of, fast-neutron and x, 23:48169
radiation effects on fine structure of bone marrow of, whole-body x, 23:22404
radiation effects on fine structure of cervical ganglion of, x, 21:12984
radiation effects on fine structure of lutein cells in ovary of, x, 21:13040
radiation effects on fine structure of pineal gland of, x, 24:6000
radiation effects on fluorescent products in urine of, 21:8667(R) (AD-631206)
radiation effects on folate metabolism in tissues of, 700 R whole-body x, 24:25395
radiation effects on follicular development in ovaries of, electron microscopic study of directed and whole-body γ, 21:26661
radiation effects on food choice by, x, 21:43496 (AD-645205)
radiation effects on food intake and excretion of glucuronides in, effects of dose on γ, 22:31267
radiation effects on foot and mouth virus multiplication in, x, 22:51429
radiation effects on formation of antibodies, blood cells, and hemolysins in, combined protective effects of AET, cysteamine and serotonin and marrow transplants against x, 22:45648
radiation effects on formation of DNA-RNA complexes in liver of, 24:23122
radiation effects on formation of nicotinamide-adenine dinucleotide in perfused liver of, x, 25:16031
radiation effects on formation of polyribosomes in liver of, local and whole-body x, 25:16029
radiation effects on formation of spleen colonies following injection of isologous bone marrow in, transfer to parabiotic partner of x, 25:26939
radiation effects on fractionation of hemoglobin of, by electrophoresis, comparison of fast neutron and x, 24:16986
radiation effects on free amino acid content in liver and spleen, gamma, 21:414
radiation effects on free amino acid content of brain regions in, x, 23:45644 (UCB-34-P-82-8)
radiation effects on free radical reactions in liver cells of, graft copolymerization study of, 22:14956
radiation effects on function and morphology of liver of, gold-198 β, 23:24735
radiation effects on function and morphology of tissues of, infrared, 23:50843
radiation effects on function and structure of parotid glands in, x, 25:19119
radiation effects on function and weight of thyroid gland of, iodine-125 γ, 23:29797
radiation effects on function of adrenal cortex in, cerium-144 β and γ and strontium-90 β, 23:22380(T) (AEC-tr-6944, pp 421-5)
radiation effects on function of adrenal glands in, effects of dose and time on x, 25:52193
radiation effects on function of adrenal glands of, supralethal whole-body, 22:4673
radiation effects on function of dendritic macrophages of spleen of, 23:29392 (ACRH-30, pp 58-64)
radiation effects on function of endocrine glands of, radio wave, 22:51994
radiation effects on function of endocrine glands and incidence of obesity in, proton, 22:33961
radiation effects on function of ribosomes in regenerating liver of, x, 23:9840(R) (ORO-3295-4)
radiation effects on functional state and morphology of erythropoiesis in, effects of dose fractionation on gamma, 25:27015
radiation effects on functions of adrenal glands of, combined effects of thermal burns on, 23:29371
radiation effects on functions of circulatory and nervous systems of, x, 23:33870
radiation effects on gamma globulins of, microwave and x, 23:33833 (PHS-PUBL.-1809, pp 89-104)
radiation effects on ganglia of solar plexus of, effects of dose on x, 23:26878
radiation effects on gastric emtpying in, protective effects of arecoline against whole-body x, 25:24223
radiation effects on gastric secretion and vitamin B_{12} absorption by intestine of, x, 25:32590
radiation effects on gastrointestinal function in, protective effects of cystamine against γ, 24:25503
radiation effects on gastrointestinal tract of, γ, 24:50674(R) (BNWL-1306(Pt.1))
radiation effects on gastrointestinal tract of, phosphorus-32 β, 22:49537
radiation effects on genetics of, natural background γ, 21:39385
radiation effects on germ-free, protective effects of bone-marrow transplantation against, 21:8845(R) (EUR-3122.e)
radiation effects on glucocorticoid and glycogen contents in endocrine glands of, protective effects of insulin against electron, 25:35164
radiation effects on glucose 6-phosphate dehydrogenase activity in blood of, γ and x, 23:47976
radiation effects on glucose and glycogen production in liver of, gamma, 25:26963
radiation effects on glucose and lactate production in ganglia of, effects of dose rate on strontium-90 β, 25:11262
radiation effects on glucose metabolism and respiration in preparations of intestine of, in vitro x, 23:41247
radiation effects on glucose metabolism in brain of, x, 22:448
radiation effects on glucose metabolism in, x, 24:606
radiation effects on glucose sorption in intestine of, protective effects of MEA against x, 21:24475
radiation effects on glucose sorption in intestine of, protective effects of MEA against x, 21:24476
radiation effects on glucuronic acid synthesis in, whole-body x, 22:43253
radiation effects on glutathione content in, whole-body x, 21:6649
radiation effects on glutathione content of blood and organs in, protective effects of cysteine against x, 24:34400
radiation effects on glutathione content of organs in, effects of time on x, 24:602
radiation effects on glycerolphosphate dehydrogenase activity in brain of, effects of time on x, 21:20034 (UCLA-12-612, pp 15-36)
radiation effects on glycogen and lipid synthesis in liver of, carbon-14 tracer study of x, 24:34078 (UR-49-1290)
radiation effects on glycogen and ultrastructure of liver cells in, histochemical studies on cobalt-60, 25:13378
radiation effects on glycogen content and activity of glycolytic enzymes in brain of, γ and x, 24:44438
radiation effects on glycogen content in liver of C57/6 black, x, 21:22285
radiation effects on glycogen content in liver of, protective effects of coconut and linseed oils against, 21:43463
radiation effects on glycogen level in liver of, effects of fatty acid content of diet on x, 21:22675
radiation effects on glycogen metabolism in brain of, x, 21:6705
radiation effects on glycogen synthesis in liver of, combined effects of starvation on, 22:40558
radiation effects on glycogen synthesis in liver of, effects of combined treatment with cortisone on, 21:34612
radiation effects on glycolysis and phosphofructokinase activity in thymocytes of, 400 R whole-body x, 24:4570
radiation effects on glycolysis and respiration in retina of, x, 21:36724
radiation effects on glycolysis in erythrocytes of, effects of dose, oxygen and temperature on γ, 22:8489
radiation effects on glycolysis in thymocytes of, x, 22:45431
radiation effects on glycolysis in thymocytes of, whole-body x, 24:4565
radiation effects on glycolysis in thymocytes of, comparative effects of glucose and fructose substrates on γ, 24:50733
radiation effects on glycolytic metabolism of, whole-body x, 22:33764
radiation effects on glycolytic regulatory enzymes in thymocytes of, protective effects of cysteamine against x, 24:36802
radiation effects on glyconeogenesis in liver of, effects of adrenalectomy on whole-body x, 23:933(R) (NIRS-6)
radiation effects on glycoprotein contents and lysosomal enzyme activity in blood plasma and liver of, single and combined effects of turpentine and x, 25:26979
radiation effects on goitrogenesis in thyroid gland of, comparison of iodine-125 and iodine-131, 25:39917
radiation effects on gonads and intestines of, RBE for fission neutron, 21:36685 (BNWL-SA-1156)
radiation effects on gonads and spleen of, microwave, 22:40895
radiation effects on gonads of male, RBE for 3-GeV proton, 25:46966 (CEA-CONF-1781)
radiation effects on granulocytopoiesis in, effects of dose on, 22:49575
radiation effects on growth and incidence of malformations of embryos of, effects of exposure rate and protracted dose on x, 25:19117
radiation effects on growth and longevity of, in tropical rain forests, γ, 25:21842 (TID-24270, pp E.169-81)
radiation effects on growth and morphology of, following prenatal injection of tritium-labeled thymidine, 22:40601
radiation effects on growth and mortality of progeny of, comparison of protective effects of cysteamine against prenatal γ and x, 25:24204
radiation effects on growth and nucleic acid and protein content of brain of, prenatal exposure gamma, 25:49285(R) (ORO-681)
radiation effects on growth and sexual maturity of, cumulative over eight generations, x, 24:14471
radiation effects on growth and transformation of epithelium transplants in, x, 25:35231
radiation effects on growth and weight of, effects of age on x, 23:5015
radiation effects on growth cartilage of, effects of dose fractionation on OER and RBE for fast neutron, 23:45902
radiation effects on growth of bacteria in intestine of, whole-body x, 23:6620
radiation effects on growth of bacteria in small intestine of, effects of peristalsis on x, 25:26975
radiation effects on growth of bone marrow transplants in eyes of, whole-body γ, 24:11971 (CEA-R-3901)
radiation effects on growth of bones in, effects of age on neutron and x, 22:8643
radiation effects on growth of brown fat in, during cold acclimation process, x, 23:2919(R) (ANL-7409)
radiation effects on growth of cerebellum in neonatal, behavioral aberrations in infants and adolescents following x, 24:41973
radiation effects on growth of fetal, in relation to content of DNA, proteins, and RNA, cobalt-60 γ, 24:23325 (CONF-690501-, pp 375-9)
radiation effects on growth of glands and heart of sialadenotrophic, x, 24:34684
radiation effects on growth of incisor teeth of, effects of dose on x, 22:15095
radiation effects on growth of organs of, effects of prenatal exposure on γ, 25:16309 (ORO-678, pp 7-13)
radiation effects on growth of salivary cells of, effects of isopropyl-noradrenaline on x, 23:18109
radiation effects on growth of salivary glands of, partial-body x, 24:14586
radiation effects on growth of tail vertebrae of, effects of oxygen on neutron, 24:2808
radiation effects on growth of transplanted metastatic liver cancer cells in, x, 23:5024
radiation effects on growth of transplanted sarcomas in, effects of anoxia on, 24:34708
radiation effects on growth of vertebrae in tails of young, x, 22:36355
radiation effects on growth of vertebrae of, effects of dose fractionation and oxygen on x, 23:38816
radiation effects on growth of, as indicated by changes in cell numbers, protein content, and RNA content of kidneys, liver, spleen, and thymus, effects of prenatal exposure on γ, 24:9944
radiation effects on growth of, following exposure of head, effects of dose on x, 22:6910
radiation effects on growth of, following intrauterine exposure, effects of dose and dose rate on cobalt-60 γ, 24:12231 (ORO-672, pp 12-20)
radiation effects on growth of, following prenatal exposure, whole-body γ, 23:10050 (ORO-661, pp 14-15)

radiation effects on growth rate of neonatal, following head exposure, x, 25:6800
radiation effects on growth, life span, and reproduction in, following ingestion of irradiated diet, γ, 22:17069
radiation effects on growth, longevity, and reproduction of, following ingestion of γ-irradiated wheat, 24:23409 (BARC-455)
radiation effects on growth, skeleton, and survival of, strontium-90 β, 23:26877 (UR-49-1028)
radiation effects on guanidine nucleotides in brain of, whole-body intermediate-neutron, 25:500
radiation effects on hair follicles and skin tumor induction in, RBE for α and electron, 23:6588
radiation effects on hair follicles and tumor incidence in skin of, effects of LET on α and electron, 22:47633
radiation effects on hair follicles in skin of, relation to tumor formation, electron, 21:24603
radiation effects on hair of, effects of growth cycle on x, 23:10064
radiation effects on hair-bulbs of young, x, 21:20075
radiation effects on head of weanling, effects of, on body growth and tooth development, x, 21:34762
radiation effects on healing of peritoneal wounds in, x, 21:24629
radiation effects on healing of skin lesions in, combined effects of surgery on whole-body, 24:34688
radiation effects on healing of skin wounds and leukocyte count in, after sorption of cesium-137, γ, 23:35910
radiation effects on healing of skin wounds in, effects of cysteine and methionine treatment on γ, 23:35782
radiation effects on healing of skin wounds in, lethal whole-body cobalt-60 γ, 24:4569
radiation effects on healing of skin wounds on, γ, 25:39936
radiation effects on healing of surgical wounds in, protective effects of drugs against x, 23:50636
radiation effects on healing of wounds in, protective effects of B vitamins against x, 22:36303
radiation effects on healing of wounds of intestine in, γ, 24:2796
radiation effects on hearing in, x, 21:22322
radiation effects on heart function in, use of electrocardiography for measuring cobalt-60 γ, 23:43883
radiation effects on heart rate and open field behavior of, effects of dose and prenatal exposure on x, 25:42640
radiation effects on hearts of, effects of focal dose on x, 21:45813
radiation effects on hearts of, prior to recipient transplantation, in situ or whole-body x, 25:52208
radiation effects on hearts of, use of hypnotics, Ringer solution, and tranquilizers for treatment of whole-body x, 23:33747
radiation effects on hematogenesis and lungs of, following chronic intratracheal administration of ruthenium-106, β, 25:24326(T) (AEC-tr-7195, pp 388-96)
radiation effects on hematology and survival of, protective effects of selenium against gamma and x, 25:49215
radiation effects on hematopoiesis and excretion of calcium and chlorides in urine of, combined effects of reduced muscular activity and dose fractionation on γ, 25:8755(T) (JPRS-51660)
radiation effects on hematopoiesis and life span of, review of, 25:44952
radiation effects on hematopoiesis and survival of, effects of dose on γ and x, 22:49578
radiation effects on hematopoiesis and survival of, protective effects of methandrostenolone against x, 22:45627
radiation effects on hematopoiesis and weight of testes of, effects of dose on x, 24:9932
radiation effects on hematopoiesis in, 22:12750(R) (RLO-1377-3)
radiation effects on hematopoiesis in bone marrow of, 24:8001
radiation effects on hematopoiesis in bone marrow of, effects of dose on β, γ, and x, 22:52009
radiation effects on hematopoiesis in bone marrow of, protected with serotonin, 21:3420
radiation effects on hematopoiesis in fasted, acute fractionated γ, 22:51981
radiation effects on hematopoiesis in fasted, effects of dose fractionation on γ, 25:52220
radiation effects on hematopoiesis in parabiont, x, 24:36830
radiation effects on hematopoiesis in polycythemic, comparison of mixed γ and neutron to x, 23:26867 (AD-672738)
radiation effects on hematopoiesis in spleen of, effects of isologous bone marrow transplants on, 22:28694
radiation effects on hematopoiesis in, chronic low dose γ, 23:43874
radiation effects on hematopoiesis in, effect of spleen on x, 22:38461
radiation effects on hematopoiesis in, effects of butyl alcohol and DNA hydrolysates on blood formation following fast neutron, 24:34676
radiation effects on hematopoiesis in, effects of transplantation of polycythemic bone marrow on x, 21:26534
radiation effects on hematopoiesis in, effects of bleeding stress on x, 23:29736(R) (NYO-3728-3)
radiation effects on hematopoiesis in, effects of cell transplants on γ, 25:21890
radiation effects on hematopoiesis in, effects of transfusions of bone marrow cells on, 21:26366
radiation effects on hematopoiesis in, effects of dose homogeneity on x, 22:8638
radiation effects on hematopoiesis in, effects of hypothyroidism on recovery from, 21:34579
radiation effects on hematopoiesis in, effects of dose rate on, 25:8608
radiation effects on hematopoiesis in, effects of shielding bone marrow on, 23:12023
radiation effects on hematopoiesis in, effects of dose on recovery from, 22:15057
radiation effects on hematopoiesis in, following intratracheal injection of thorium dioxide, 25:4700
radiation effects on hematopoiesis in, γ, 22:14969
radiation effects on hematopoiesis in, in utero x, 23:33833 (PHS-PUBL.-1809, pp 89-104)
radiation effects on hematopoiesis in, mechanism of protective effects of AET against, 23:24690
radiation effects on hematopoiesis in, protective effects of bone marrow shielding against acute x, 22:49363
radiation effects on hematopoiesis in, protective effects of isogenic marrow lymphocytes against x, 22:8567
radiation effects on hematopoiesis in, protective effects of panthenol and vitamin B_6 on x, 21:45678
radiation effects on hematopoiesis in, therapeutic effects of DNA on whole-body γ, 22:25898
radiation effects on hematopoiesis in, whole-body x, 23:20378
radiation effects on hematopoietic cells in bone marrow of, effects of cell type on γ and x, 23:31899 (AD-682210)
radiation effects on hematopoietic organs of fetuses of, x, 22:49583
radiation effects on hematopoietic stem cell recovery in, effects of repeated sublethal doses on x, 22:38435
radiation effects on hematopoietic stem cells in bone marrow and spleen of, effects of age on γ, 22:6901
radiation effects on hematopoietic system and survival of, protective effects of hydrazone amides against x, 25:39879(T) (JPRS-53218, pp 13-19)
radiation effects on hematopoietic system in pregnant, tritium β, 25:577
radiation effects on hematopoietic system in, protective effects of folic acid and vitamin B-12 against whole-body, 24:23241
radiation effects on hematopoietic system of rats following intraperitoneal injection of strontium-90, β, 23:41432(T) (AEC-tr-7086)
radiation effects on hematopoietic system of, comparison of RBE for β, fast neutron, and x, 22:40822(T) (JPRS-44070, pp 1-9)
radiation effects on hematopoietic system of, effects of surgical bleeding on regeneration time from x, 21:22718
radiation effects on hematopoietic system of, effects of strain on microwave, 21:16506
radiation effects on hematopoietic system of, following inhalation of strontium-90 aerosols, 22:23594 (LF-38, pp 108-12)
radiation effects on hematopoietic system of, protective effects of bone marrow transplants against, 22:19399
radiation effects on hematopoietic system of, whole-body proton or γ, 21:16434(T) (JPRS-38272, pp 442-3)
radiation effects on hemodynamic and red blood cells in, following single or chronic inhalation of plutonium-239, α, 25:24325(T) (AEC-tr-7195, pp 354-63)
radiation effects on hemoglobin molecules in, during acute radiation sickness, 24:48427
radiation effects on hemolysin formation by spleen of, effects of cell repopulation on, 24:34157
radiation effects on hemolysis of blood of, effects of dose on γ, 23:12014
radiation effects on hemorrhage by, effects of ellagic acid on x, 24:32231
radiation effects on hemostasis kinetics in, x, 21:429
radiation effects on hepatic fatty acids of, 21:28377
radiation effects on hepatic lipids of, 21:28378
radiation effects on heterogeneity of nuclear RNA in liver of, whole-body γ exposure, 25:42280
radiation effects on hexokinase activity in brain, erythrocytes, and liver of, x, 25:55140
radiation effects on hexokinase activity of brain, erythrocytes, and liver of, x, 25:51998
radiation effects on histamine content in tissues of, compared to effects of natural radiomimetics and vibrations, x, 21:22743
radiation effects on histamine content of blood, lungs, skin, and small intestine in, combined effects of skin wounds on whole-body, 25:13368
radiation effects on histamine content of, comparison of, to radiomimetics and vibration effects, 22:25964
radiation effects on histamine content of, γ, neutron, and proton, 22:25726
radiation effects on histamine in blood, intestines, kidneys, and liver of, mechanism of, following ingestion of mixed radioisotopes, 25:10967
radiation effects on histidine decarboxylase activity in starved, effects of forced feeding or insulin administration on restoration of x, 23:41229(R) (NYO-2085-13)
radiation effects on histochemical reactions and cellular morphology in adrenal glands of, whole-body x, 22:429
radiation effects on histochemical reactions in adrenal glands of, whole-body x, 22:429
radiation effects on histochemistry and ultrastructure of lungs of, latent γ, 24:34714
radiation effects on histochemistry of adrenal cortex of, effects of nandrolone phenopropionate and prednisolone on x, 24:7990
radiation effects on histochemistry of cortical and medullar tissues in adrenal glands of, partial-body x, 25:29671
radiation effects on histogenesis of cerebral cortex of, during gestation, x, 21:14721
radiation effects on histology and histochemistry of spleen of, whole-body x, 21:43529
radiation effects on histology and physiology of thyroid of, polonium-210 α, 23:22370(T) (AEC-tr-6944, pp 309-15)
radiation effects on histology and physiology of thyroid gland in, following administration of various doses of iodine-131, β and γ, 23:41465(R) (COO-1784-16)
radiation effects on histology of adrenal glands of, γ, 23:8070
radiation effects on histology of nervous system of, RBE for fast neutron, 25:42641
radiation effects on histology of ovaries and uterus in albino, combined effects of estrogens, progesterones, and x, 25:35237
radiation effects on histone content of deoxyribonucleoproteins in liver, spleen, and thymus of, effects of heparin on, 25:13385
radiation effects on histones in thymus nuclei of, γ, 25:10971
radiation effects on homeostasis in, in comparison with hemorrhage effects, cesium-137 γ and x, 23:20342 (BNL-50058, pp 212-22)
radiation effects on homocytotropic antibody formation in, x, 25:35112
radiation effects on homologous thyroglobulin antibody production in, combined effects of γ and/or iodine-131, 25:29660
radiation effects on hormone induction of enzymes in liver of, γ, 23:909
radiation effects on hormone production by adrenal glands in, polonium-210 α and γ, 23:18113
radiation effects on hyaluronic acid in tissues in, in relation to radiation injuries, x, 23:9879
radiation effects on hyaluronidase activity and spermatogenesis in, acute x, 23:10083
radiation effects on hydrolytic enzymes in reticular cells of thymus gland of, whole-body x, 22:441
radiation effects on hydroxylase in hepatic microsomes of, cesium-137 γ, 24:27550
radiation effects on hydroxyproline excretion in urine of, effects of dose and dose fractionation on, 24:50752
radiation effects on hydroxyproline release in granulomas of, x, 25:24396
radiation effects on hypertrophic kidneys of, biochemical and histological study of γ, 22:40920
radiation effects on hypothalamic-hypophyseal tract, whole-body x, 21:1807
radiation effects on hypothalamic-hypophysic reactions of brain of, 21:24556
radiation effects on hypothyroid, effects of thyroxine on x, 24:51065
radiation effects on hypoxanthine content in brain of, effects of dose on neutron, 25:35226
radiation effects on immune properties and size of thymocytes of, during thymus repopulation, 24:9786
radiation effects on immune reactions and phagocytic activity in, following injection of phosphorus-32 as chromium phosphate, β, 24:34151
radiation effects on immune reactions and pyrrole content of blood serum of, in comparison to effects of methioninesulfoximine, whole-body x, 24:21088
radiation effects on immune reactions and reproduction of, protective effects of AET, cysteamine, and serotonin against γ and x, 25:46889
radiation effects on immune reactions in spleen of, 21:45772(R) (ACRH-27)
radiation effects on immune reactions in, at diphtheria toxoid or sheep erythrocytes, effects of circulating bone-marrow cells and thoracic duct cells on x, 23:35676
radiation effects on immune reactions in, effects of splenic shielding on whole-body x, 21:45772(R) (ACRH-27)
radiation effects on immune reactions in, effects of bone marrow cells on γ, 25:16055
radiation effects on immune reactions in, effects of thymectomy and grafts from tolerant rats on, 22:51433
radiation effects on immune reactions in, effects of spleen or thymus shielding on whole-body x, 21:22618
radiation effects on immune reactions in, effects of exposure as embryos on, 21:22766
radiation effects on immune reactions in, effects of lymphocyte injection on x, 23:24569
radiation effects on immune reactions in, following sheep erythrocyte antigenic stimulation, x, 24:21086
radiation effects on immune reactions in, following injection of sensitized and unsensitized isogenic spleen cells, 23:50378
radiation effects on immune reactions in, following injection of mixed liver and spleen extracts in relation to protein synthesis, 22:25771
radiation effects on immune reactions in, following skin transplants, extracorporeal x, 23:47979
radiation effects on immune reactions in, following ingestion of strontium-90 and cesium-137, 25:46691
radiation effects on immune reactions in, protective effects of prophylactic agents on lethal, 21:22487
radiation effects on immune reactions in, protective effects of bone marrow transplants against x, 21:30872
radiation effects on immune reactions in, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on immune reactions of dendritic macrophages of spleen of, x, 23:768 (ACRH-1000-80)
radiation effects on immune reactions of lymph nodes and spleen of, following transplantation of tumors, x, 23:29409
radiation effects on immune reactions of lymphocytes of, to sheep erythrocytes and tetanus toxoid, 24:9788
radiation effects on immune reactions of, density gradient centrifugation analysis of antigen-sensitive cells in x, 24:7764
radiation effects on immune reactions of, effects of, on transplantation of lymphomas, 23:16252
radiation effects on immune reactions of, following injection of spleen cells from donors with heliotrine-induced cirrhosis of liver, x, 25:16062
radiation effects on immune reactions of, protective effects of nucleic acids against x, 23:11937(T) (AEC-tr-6646/4A, pp 147-50)
radiation effects on immune reactions of, role of thymus in x, 23:2746 (RT/BIO-(68)5)
radiation effects on immune reactions of, to diphtheria and tetanus toxoid, effects of transplants of spleen and thoracic duct cells on x, 24:48443

radiation effects on immune reactions of, to injected syngenic bone marrow, 21:18174
radiation effects on immune reactions of, to injected bovine gamma globulin, effects of endotoxin stimulation on, 22:8462
radiation effects on immune reactions of, to Salmonella typhi flagella and ferritin, effects of thoracic duct lymphocytes on, 24:50779
radiation effects on immune reactions of, to sheep erythrocytes, protective effects of AET, cysteamine, and serotonin against γ and x, 25:21737
radiation effects on immune reactions of, to transplants of sensitized spleen cells, 22:40535
radiation effects on immune reactions of, x, 23:17913
radiation effects on immune reactions to antigens in sensitized, x, 24:36722
radiation effects on immune reactions to gamma globulins in, effects of thymectory on x, 23:38497
radiation effects on immune reactions to inflammation in, ionizing, 23:41267
radiation effects on immune reactions to skin transplants in, effects of thymectomy and injection of bone marrow cells on x, 21:22725
radiation effects on immune reactions to tissue transplants in, whole-body x, 21:18168
radiation effects on immune reactions to Trypanosoma, protective effects of endotoxins against x, 25:55267
radiation effects on immune response in, effects of lymphocyte transplants on repair of x, 22:14920
radiation effects on immune response of thymus-shielded, to experimental autoallergic encephalomyelitis antigen, combined effects of intrathymic injection of antigen on whole-body x, 24:44442
radiation effects on immune response of, cytological analysis of γ, 22:38222
radiation effects on immune response of, role of lymphocytes in x, 22:30945
radiation effects on immune response of, to skin allografts, combined effects of injected lymphocytes on whole-body x, 24:44447
radiation effects on immune response of, to skin transplants, extracorporeal x, 22:49221
radiation effects on immune response of, to transplanted blastocysts of mice, x, 23:43711
radiation effects on immune response of, tracer study of, 22:10853
radiation effects on immune response of, whole-body x, 21:41318
radiation effects on immune response of, whole-body x, 21:41337
radiation effects on immune response to heart transplants in, combined effects of hyperbaric oxygen and hypothermia on ionizing, 24:646
radiation effects on immune response to tularemia of, x, 21:428
radiation effects on immunity of, against transplants of Yoshida sarcoma cells, 22:47492
radiation effects on immunity of, to attenuated E strain of Rickettsia prowazekii, 21:18180
radiation effects on immunity of, types of lymphocytes involved in restoration of primary antibody response following x, 24:4584
radiation effects on immunogenic activity induced by homologous bone marrow transplants in, x, 21:24306
radiation effects on immunological competence in, following transfer of lymphocytes, 25:21609
radiation effects on incidence of bacterial endocarditis in, effects of abdomen or hematopoietic tissue shielding on x, 24:50932
radiation effects on incidence of broncho-pulmonary disease in, combined effects of inhalation of fluorspar dusts on x, 21:32771
radiation effects on incidence of diarrhea and survival of, effects of blood serum from sub-lethally irradiated rabbits on recovery from x, 23:29574
radiation effects on incidence of ectoparasites of, at Nevada Test Site, 22:8495 (COO-1355-17)
radiation effects on incidence of enteric infections in, following ingestion of cerium-144 or polonium-210, α, β, and γ, 23:18110
radiation effects on incidence of inflammation in skin of, following intracutaneous injection of Escherichia coli, microwave and radio wave, 22:19406
radiation effects on incidence of mammary neoplasia in, partial-body x, 21:24599
radiation effects on incidence of mammary neoplasia in, protective effects of AET against, 21:24487
radiation effects on incidence of neoplasm in lungs of, α, 22:2537
radiation effects on incidence of ovarian tumors in, effects of ovarian ligature on whole-body x, 21:24646
radiation effects on incidence of pulmonary metastases in, following therapy of mammary cancer, x, 22:21616
radiation effects on incidence of Tyzzer's disease in, effects of cortisone on x, 22:47586
radiation effects on incised muscle of, protective effects of cystamine against, 22:47567
radiation effects on incisor teeth of, histologic study of x, 22:51895
radiation effects on incorporation of carbon-14-labeled amino acids into cell nuclei in liver, spleen, and thymus of, γ, 24:50731
radiation effects on incorporation of carbon-14-labeled pyruvate into tricarboxylic acid cycle in thymocytes of, in-vitro x, 25:18902
radiation effects on incorporation of carbon-14-labeled phenylalanine into protein of fetal, x, 24:23350 (CONF-690501-, pp 985-94)
radiation effects on incorporation of sodium acetate into tissue lipids of, protective effects of AET against γ, 23:6552
radiation effects on incorporation of thymidine into DNA proteins in tissues of, x, 24:6004
radiation effects on incorporation of tritium-labeled orotic acid into RNA of liver of, x, 23:41250
radiation effects on induction of enzymes by hormones in brain of, ionizing, 23:47954 (UCLA-12-724, pp 71-87)
radiation effects on insulin content of blood in, effects of dose on whole-body x, 24:29668
radiation effects on insulin treatment of alloxan diabetes in, 23:10077
radiation effects on interferon content of, effects of adrenalectomy, cortisol, and sindbis virus on x, 22:52000
radiation effects on intermediary metabolism of carbon-14-labeled compounds by, following parenteral administration, whole-body x, 24:23103 (CONF-690501-, pp 629-35)
radiation effects on internal organs of, sensitizing effects of vitamin K$_3$ on x, 22:49396
radiation effects on interstitial cells in testes of, functional and morphological studies on cryptorchidism and x, 25:27008
radiation effects on intestinal absorption of fats in, protective effects of N-(2-mercaptoethyl) against x, 21:4844
radiation effects on intestinal epithelium of, 24:9931
radiation effects on intestinal flora of, x, 21:26555 (BNWL-SA-1143)
radiation effects on intestinal function in, combined effects of bile on x, 22:49544
radiation effects on intestinal mucosa in, recovery from fast neutron, 21:22233 (BNL-994, pp 113-23)
radiation effects on intestinal mucosa of, acute γ, neutron, and x, 22:49552
radiation effects on intestinal mucosa of, combined effects of bile on x, 22:49561
radiation effects on intestinal mucosa of, x, 23:31958
radiation effects on intestinal sorption of chloride, glucose, sodium, and water in, x, 21:3441
radiation effects on intestinal transport in, x, 21:20390
radiation effects on intestine of, cesium-137 γ, 23:22421
radiation effects on intestine of, protective effects of hypothermia against whole-body x, 21:43457
radiation effects on intestines of, carcinogenic cerium-144 β and γ, 22:43442
radiation effects on intestines of, comparison of, to effects of sodium taurocholate, 21:38815(R) (BNWL-293)
radiation effects on intestines of, following ingestion of mixed radioisotopes, mechanism of damage and repair following chronic, 25:11271
radiation effects on intestines of, histopathologic study of urethan effects on x, 22:36316
radiation effects on intestines of, role of lysosomes in x, 22:49558
radiation effects on intrauterine development in, strontium-90 β, 23:22390(T) (AEC-tr-6944, pp 526-37)
radiation effects on intrauterine development of, strontium-90 β, 22:40904
radiation effects on iodine distribution and thyroid function in, following administration of uranium, 25:32587
radiation effects on iodine-131 uptake by perfused liver and intestine of rats, effects of food uptake on, 25:13349
radiation effects on ionic composition of kidney cells of, combined effects of radiotoxins and γ, 25:44946
radiation effects on iron metabolism in, whole-body cesium-137 γ, 23:20372
radiation effects on iron uptake by exteriorized small intestine of, x, 23:33644
radiation effects on iron-59 uptake by bones of, correlation between intramedullary dose and whole-body x, 25:35211
radiation effects on ischemia damaged kidneys in, fractionated low-dose, 25:29654
radiation effects on isoamylase content of body fluids and organs of fetal and adult, whole-body x, 23:50886
radiation effects on isoenzyme composition of enzymes in blood serum and liver extracts of, in relation to severity of radiation sickness and survival, 24:7750
radiation effects on isoenzyme pattern and total activity of lactic dehydrogenase in fetal and pregnant, x, 21:10761
radiation effects on isolated and perfused liver of, methods for determining x, 24:44592
radiation effects on isolated bladders of, effects of dose on x, 24:36824
radiation effects on isolated segments of intestine from, 21:28585(R) (BNWL-247)
radiation effects on isozyme composition of lactic dehydrogenase in tissues of, γ, 24:7752
radiation effects on jejunal crypt cells of, effects of proteins on x, 25:13562
radiation effects on Jensen sarcomas of, sensitizing effects of monoiodoacetic acid on x, 23:18101
radiation effects on kidney tissue in, scintigraphic method for determining cesium-137 γ, cobalt-60 γ, and x, 24:14607
radiation effects on kidneys in, following intravenous injection of mercury-203-labeled neohydrin, 24:883
radiation effects on kidneys of parabiont, x, 22:19423
radiation effects on kidneys of, histochemical studies of local and whole-body x, 25:49299
radiation effects on kidneys of, relation to development of hypertension, x, 24:32183 (UR-49-1289)
radiation effects on kinase activity in liver of, protective effects of AET against x, 22:4589
radiation effects on kinetics of erythroid stem cell proliferation in, effects of erythropoietin on continuous γ, 24:12252
radiation effects on kinetics of erythropoiesis in, iron-59 tracer study of γ, neutron, and x, 23:26911
radiation effects on kininase activity in blood plasma of, x, 25:27030
radiation effects on kininase and kininogen activity in blood of, γ, 25:29668
radiation effects on lactate dehydrogenase content of organs of, effects of hypoxia on whole-body x, 24:50758
radiation effects on lactic dehydrogenase and LDH isoenzymes in, protective effects of methylene blue against whole-body γ, 25:4605
radiation effects on laryngeal tissues and skin of neck of, laser, 23:33867
radiation effects on learned behavior of, maintained by intracranial stimulation or food, lethal γ, 25:21856
radiation effects on learning ability of, x, 21:8988
radiation effects on learning following head exposure at one-day old, effects of dose on x, 25:42655
radiation effects on lens epithelium of, effects of LET on x, 24:23355(R) (COO-1024-40)
radiation effects on lens of, x, 21:28588(R) (COO-1024-23)
radiation effects on leucine incorporation and protein synthesis by perfused liver of, x, 25:13373
radiation effects on leukocyte content in skin of, uv, 21:20389
radiation effects on leukocyte count and life span of, correlation of, with effects of adrenalin, x, 24:23371
radiation effects on leukocyte count and survival of, protective effects of azapurines and azapyrimidines against x, 24:9876
radiation effects on leukocyte count in hypophysectomized and normal, combined effects of testosterone on x, 23:9996
radiation effects on leukocyte count in peripheral blood of, x, 25:26939
radiation effects on leukocyte count in, effects of phytohemagglutin on x, 23:31827
radiation effects on leukocyte count in, protective effects of folic acid against whole-body x, 23:38619
radiation effects on leukocyte count in, strontium-90 β and γ, 23:24741
radiation effects on leukocyte count, adrenal cortex, and thyroid of, bremsstrahlung, 25:58107
radiation effects on leukocyte counts in, comparison of effects of endoxan and trenimon with γ, 21:32706
radiation effects on leukocyte reserves in bone marrow of, effects of testosterone on recovery from whole-body x, 25:52110
radiation effects on leukocytes of, β and γ, 22:49516
radiation effects on leukocytes of, following prolonged ingestion of uranium at low doses, 23:29775
radiation effects on leukopenia induction in, γ, 21:22700
radiation effects on leukopoietic activity of blood plasma of, whole-body 600 R x, 24:34655
radiation effects on level of antidiuretic hormone in, x, 23:18098
radiation effects on lick rates in, effects of saccharin on γ, 22:49609
radiation effects on life span and breast tumor development in Wistar, effects of ovariectomy on, 21:22690
radiation effects on life span and tumor incidence in, effects of stress on x, 25:42669
radiation effects on life span of Dipodomys sp., in Mojave desert, 22:25800 (UCLA-12-668, pp 37-58)
radiation effects on life span of, combined microwave and x, 21:16438(T) (JPRS-38272, pp 340-1)
radiation effects on life span of, effects of age and dose fractionation on γ, neutron, and x, 22:8645
radiation effects on life span of, effects of enclosure in environmental chamber on microwave, 24:41958 (BRH/DBE-70-1, pp 59-82)
radiation effects on life span of, tracer studies of role of physiological functions in, 25:42668
radiation effects on life span of, x, 21:24599
radiation effects on life-span of lymphocytes in, x, 21:22717
radiation effects on lifetime health of newborn, x, 21:20034 (UCLA-12-612, pp 15-36)
radiation effects on lipases in adipose tissues of, effects of noradrenaline and pH on uv, 22:19260
radiation effects on lipid balance in fetal and maternal liver and placenta of pregnant, whole-body x, 22:435
radiation effects on lipid biochemistry in lung tissue of, following thoracic exposure, x, 25:6650
radiation effects on lipid content in lungs of, x, 21:14525 (BNWL-280, pp 74-6)
radiation effects on lipid content of liver of, electron microscopy of neptunium-237 α and γ, 24:23092
radiation effects on lipid content of livers in fetal and maternal, x, 23:33875
radiation effects on lipid content of lungs of, x, 21:28427(R) (BNWL-335(Rev.))
radiation effects on lipid content of, x, 21:22728
radiation effects on lipid metabolism by, cerium-144 β and γ and strontium-90 β, 23:22381(T) (AEC-tr-6944, pp 434-40)
radiation effects on lipid metabolism in adipose cells of, uv, 22:21441
radiation effects on lipid metabolism in liver of, 21:12763
radiation effects on lipid metabolism in liver of, whole-body x, 21:8940
radiation effects on lipid metabolism in skin of, uv, 24:608
radiation effects on lipid metabolism in, cerium-144 β and γ, 23:9867
radiation effects on lipid metabolism in, combined effects of starvation on x, 23:31642
radiation effects on lipid metabolism in, effects of diet and dose fractionation on x, 23:43702
radiation effects on lipid peroxidation in testes of, effects of age and hypophysectomy on x, 23:31640 (COO-1602-14)
radiation effects on lipid peroxidation in tissues of, effects of adrenalectomy on x, 23:41253
radiation effects on lipid peroxide production in subcellular fractions from liver cells of, electron, 22:454
radiation effects on lipid peroxides of subcellular fractions of liver of, acute x, 23:4887

radiation effects on lipids of, effects of AET on whole-body γ, 21:20045
radiation effects on lipids of, x, 22:30929 (BMwF-FBK-67-84)
radiation effects on litter size and growth of offspring of, effects of preconception exposure on x, 23:33838
radiation effects on litter size of, effects of stocks on whole-body x, 25:24350
radiation effects on liver and body weights of, x, 21:18121 (USNRDL-TR-67-19)
radiation effects on liver and spleen in, protective effects of hypothermia against whole-body x, 25:32444
radiation effects on liver and survival in, protective effects of injections of polymerized calf thymus DNA against γ, 21:12945
radiation effects on liver cells in, following focal or whole-body exposure, combined effects of phytohemagglutinin on, 23:38782
radiation effects on liver cells in, mechanism for x, 25:58130
radiation effects on liver cells of, histochemical analysis of internal gold-198 β and γ, 22:33957
radiation effects on liver enzyme activities in, in utero exposure, 21:20395
radiation effects on liver enzyme activity in, effects of adrenalectomy, hormones, and substrate on x, 21:20396
radiation effects on liver function in, x, 21:4862
radiation effects on liver mitochondria lipids in, whole-body x, 21:14603
radiation effects on liver mitochondria of, x, 21:22699
radiation effects on liver of, 1 to 306 days after intravenous injection of thorium dioxide, cytological, 23:26882
radiation effects on liver of, additive effects of triethylene melamine on whole-body x, 21:22664
radiation effects on liver of, β, 21:41478
radiation effects on liver of, effects of administration of iron preparation (Fe-H-2) on recovery from x, 24:2722
radiation effects on liver of, effects of diethylnitrosamine and phenobarbital on γ, 22:28623 (ANL-7278, pp 132-43)
radiation effects on liver of, effects of dose and postirradiation time on acute x, 22:25969
radiation effects on liver of, effects of material from, on synthesis in HeLa cells, γ, 23:35843
radiation effects on liver of, effects of partial hepatectomy on body weight, histology, and regeneration following x, 23:10071
radiation effects on liver of, effects of, on content of thiol groups in proteins of nuclei, x, 24:16970
radiation effects on liver of, following chronic ingestion of strontium-90, β, 22:28667
radiation effects on liver of, following injection of Thorotrast, histological and neoplastic, 23:26885
radiation effects on liver of, in relation to survival, local and whole-body, 21:32751
radiation effects on liver of, latent pathological x, 23:6578
radiation effects on liver of, protective effects of Adona and vitamin K against x, 23:10071
radiation effects on liver of, protective effects of DNA against γ, 22:10783
radiation effects on liver phosphatides of, x, 21:22251
radiation effects on liver regeneration in partially hepatectomized, in comparison to effects of liver extracts, x, 25:26948
radiation effects on liver regeneration in, mechanism of cerium-144, 25:35221
radiation effects on livers of, cirrhotic cerium-144 β and γ, 23:22384(T) (AEC-tr-6944, pp 463-9)
radiation effects on living cells from liver of, effects of acridine orange on laser, 22:51976
radiation effects on localization of acid mucopolysaccharides in cells of intestines of, acute x, 22:49273
radiation effects on low temperature survival of, effects of dose on partial- or whole-body x, 24:25569
radiation effects on lung clearance of inhaled iron oxide particles in, whole-body x, 21:14529 (BNWL-280, pp 62-4)
radiation effects on lung tissues of, effects of parabiosis on x, 22:40862
radiation effects on lungs in, histochemical studies on late whole-body, 24:50718
radiation effects on lungs of, combined effects of cortisone with and without tetracycline on, 25:32546
radiation effects on lungs of, effects of exposure under conditions of high-pressure oxygen on x, 21:24589
radiation effects on lungs of, following chronic inhalation of plutonium-239-labeled citrate aerosols, 25:23965(T) (AEC-tr-7195, pp 153-60)
radiation effects on lungs of, following intratracheal administration of cerium-144, cesium-137, and strontium-90, 25:23958(T) (AEC-tr-7195, pp 87-101)
radiation effects on lungs of, following uptake of iron-59, pathological β and γ, 22:21605
radiation effects on lungs of, plutonium-239 α and γ, 23:22165(T) (AEC-tr-6944, pp 122-30)
radiation effects on lymph node, spleen, and thymus gland cytoplasm in, kinetics of whole-body γ, 25:44939
radiation effects on lymph nodes and spleen of, histological analysis of chronic strontium-90 β, 22:38434
radiation effects on lymph nodes in, electron microscope of whole-body, 24:21275
radiation effects on lymph nodes of, comparison of recovery from partial- and whole-body, 25:29669
radiation effects on lymph nodes of, histologic study of γ, 23:20392
radiation effects on lymph nodes of, x, 21:13004
radiation effects on lymph system in, protective effects of DNA against γ, 22:51867
radiation effects on lymphocyte count in marrow of, 21:34791
radiation effects on lymphocyte nuclei from, 23:6392
radiation effects on lymphocyte size in, x, 21:12751(R) (TID-23456)
radiation effects on lymphocytes and plasma cells in lymph nodes of, effects of typhoid-paratyphoid vaccination on x, 22:436
radiation effects on lymphocytes in peripheral blood of, extracorporeal and whole-body x, 22:31227
radiation effects on lymphocytes of lymph nodes of, uv fluorescence at 5 min to 6 hr following x, 24:32158
radiation effects on lymphoid tissue of, recuperative processes following cerium-144 β and γ, 23:48214
radiation effects on lymphopoiesis in, effects of mumie on restoration of γ, 22:51850
radiation effects on lysosomal membranes of liver cells of, uv, 23:9861
radiation effects on lysosomes in dermal and myocardial cells of embryos of, electron microscopy of fast neutron, 25:16358
radiation effects on lysosomes in livers of, enzyme concentration studies for determining, 24:34076 (AD-701756)
radiation effects on lysosomes in skin of, uv, 22:51911
radiation effects on lysosomes in thymus of, x, 23:9882
radiation effects on magnesium content of thymus cells of, ionizing, 24:16977
radiation effects on magnesium metabolism by, acute whole-body cobalt-60 γ, 23:2962
radiation effects on mammary gland neoplasms in, RBE of neutron, 23:48205
radiation effects on mammary tissues of, following in vitro exposure and subcutaneous transplanting, neoplastic x, 25:32536
radiation effects on mandible and tibia of, tetracycline tracer technique for studying dynamics of bone remodeling following phosphorus-32 β, 24:863
radiation effects on mandible bone and dentin growth in, 1200-R x, 25:27025
radiation effects on mandible of, dynamics of bone remodeling following local x, 24:865
radiation effects on mandibular condyle of, 1200-R x, 25:27026
radiation effects on mandibular condyle of, recovery from x, 24:23369
radiation effects on mandibular incisor teeth of, long-term x, 21:32784
radiation effects on mast cell reaction in, in relation to healing of bone fractures, x, 23:35918
radiation effects on mast cells in peritoneal fluid of, microwave, 22:559
radiation effects on maternal-embryonic interactions in, protective effects of cysteamine against x, 22:47635
radiation effects on mating habits of female, x, 25:21854
radiation effects on maturation of cerebellar cortex in, postnatal x, 25:19114
radiation effects on maturation rate of reticulocytes of, γ, 23:35844
radiation effects on maze box behavior of, effects of dose on γ, 23:16409
radiation effects on maze habit in, combined effects of vibrations and x, 25:29666
radiation effects on maze habits of, effects of dose, fractionation on whole-body x, 25:11273
radiation effects on medulla oblongata tissue in brain of, ultrastructural study of whole-body γ, 25:8787
radiation effects on medullary tissue of brain of, electron microscopy of γ, 25:58118
radiation effects on megakaryocytes of, x, 24:4682
radiation effects on melatonin synthesis and testicular weight of, protective effects of light on x, 24:51048
radiation effects on melting point and thermal denaturation of DNA in thymus of, whole-body 1000 R x, 24:34093
radiation effects on membranes of nuclei of astrocytes, neurons, and oligodendrocytes in, 24:25554
radiation effects on memory in, prenatal x, 24:48680
radiation effects on mercapto content of heart in, x, 22:12808
radiation effects on mesenteric blood vessels of, combined effects of hypertension on x, 22:45602
radiation effects on mesentery of, tissue destruction following ultrasonic, 23:50859
radiation effects on mesoappendix of, combined effects of epinephrine on pulsed microbeam laser, 21:11017
radiation effects on metabolic equilibrium in brain of, protective effects of cysteine against x, 25:42619
radiation effects on metabolic processes in tissues of, fast neutron, 21:4766
radiation effects on metabolic products of urea synthesis in liver and blood plasma of, x, 23:38487
radiation effects on metabolic reactions in skeleton of rats, effects of hormonal mechanism and sex on x, 24:34679
radiation effects on metabolism and survival of, protective effects of solcoseryl against x, 23:50626
radiation effects on metabolism in blood serum and heart muscles of, microwave, 25:21847
radiation effects on metabolism in liver of, 22:8639
radiation effects on metabolism in liver of, effects of abdominal shielding on fractionated dose of x, 21:22301
radiation effects on metabolism in liver of, whole-body x, 25:16279 (NIRS-9, pp 15-53)
radiation effects on metabolism in thymus of, x, 21:28625
radiation effects on metabolism in tubular cells of kidneys in, x, 23:31961
radiation effects on metabolism in, under hyperbaric oxygen therapy, 24:4644
radiation effects on metabolism in, x, 23:43674
radiation effects on metabolism of amphetamine benzamide and amphetamine sulfate in, x, 24:41772
radiation effects on metabolism of barbiturates in adult and fetal rats, x, 23:50291
radiation effects on metabolism of calcium-45 and phosphorus-32 in, effects of dose on x, 22:51482
radiation effects on metabolism of calcium-45 in bones of, 4 to 102 days after exposure, laser, 23:33854
radiation effects on metabolism of carbohydrates in, x, 23:5026
radiation effects on metabolism of carbohydrates, lipids, and proteins in, effects of dose on, methods for determining whole-body, 24:48434
radiation effects on metabolism of chlorides, rubidium-86, and sodium-22 in, x, 22:51483
radiation effects on metabolism of citric acid cycle substrates by liver mitochondria of, 22:8457
radiation effects on metabolism of deoxycytidine in, 21:36505
radiation effects on metabolism of DNA in, carbon-14-labeled deoxycytidine tracer study of x, 24:592
radiation effects on metabolism of DNA in, ionizing, 22:51478
radiation effects on metabolism of DNAses and phosphatases in kidneys of, in comparison to injection of TEM, whole-body x, 25:26645
radiation effects on metabolism of fatty acids in liver following partial hepatectomy, whole-body, 21:16296
radiation effects on metabolism of fatty acids in bone marrow of, γ, 21:45501 (ORAU-101, pp 12-13)
radiation effects on metabolism of fluids and sodium in intestine of, protective effects of AET and cysteamine against, 22:6854
radiation effects on metabolism of glyceryl trioleate and oleic acid by, whole-body x, 22:43469
radiation effects on metabolism of glycine in, x, 21:26552 (BMwF-FBK-67-01)
radiation effects on metabolism of glycogen in liver of rats, effects of diet on whole-body x, 21:28350
radiation effects on metabolism of γ-aminobutyric acid and glutamic acid in brain and liver of, x, 25:46734
radiation effects on metabolism of hexobarbital in microsomes of liver of, x, 22:8592(R) (AD-629311)
radiation effects on metabolism of histidine in liver of, x, 24:50773
radiation effects on metabolism of histidine in, acute carbon-14 beta, 22:49620
radiation effects on metabolism of injected deoxycytidine in, x, 23:33620 (AD-680611)
radiation effects on metabolism of iodine-131-labeled fibrinogen in, x, 24:4562 (UR-49-1185)
radiation effects on metabolism of iron in, combined effects of nandrolone-decanoate on γ, 23:779
radiation effects on metabolism of isolated ganglion from, β, 21:24611
radiation effects on metabolism of isoniazid in, x, 21:14753
radiation effects on metabolism of labeled compounds in wounds of, 23:16420
radiation effects on metabolism of lipids in lungs of, x, 21:28338(R) (BNWL-353(Rev.))
radiation effects on metabolism of NAD and NADH$_2$ in liver of, effects of nicotinamide injections on x, 23:45666
radiation effects on metabolism of NAD and reduced NAD in brain of, low-dose x, 24:9756
radiation effects on metabolism of nicotinamide-adenine dinucleotide and nucleic acid metabolites in, mechanisms for, 25:42623
radiation effects on metabolism of norepinephrine and serotonin in brain of, low dose microwave, 25:16303(R) (AD-710005)
radiation effects on metabolism of norepinephrine in, x, 23:26821 (YALE-3960-1)
radiation effects on metabolism of nucleic acids in liver of, γ and x, 22:49259
radiation effects on metabolism of nucleic compounds in, review of prolonged γ, 22:23653
radiation effects on metabolism of phosphate esters of thiamine in liver of, x, 21:36508
radiation effects on metabolism of proteins in, γ and x, 23:4901
radiation effects on metabolism of RNAase in liver and thymus of, effects of corticosteroids and inhibitors on x, 23:45657
radiation effects on metabolism of selenium-75 and sulfur-35 in organs of, x, 25:42264
radiation effects on metabolism of thyroxine in, 24:16974
radiation effects on metabolism of zinc-65 chloride in, x, 21:14744
radiation effects on metal ion transport in mitochondria of liver in, electron, 22:440
radiation effects on metastasis induction by injected irradiated ascites carcinosarcoma cells in rats, x, 21:22732
radiation effects on microbial populations in feces of, whole-body x, 22:6927
radiation effects on microflora of mucosa and skin of, tritium β, 23:22177(T) (AEC-tr-6944, pp 251-7)
radiation effects on microsomal enzyme development in liver of, x, 23:18100
radiation effects on microsomal enzyme system in liver of, effects of head exposure on x, 22:23467
radiation effects on microsomal structural proteins in liver of, x, 25:39919
radiation effects on migration of amelogenic cells in incisors of, 25:29678
radiation effects on migration of leukocytes in, following subcutaneous injection of leukocytic factors, x, 25:24341
radiation effects on mitochondria from liver of, uv, 22:28315
radiation effects on mitochondria in liver of, whole-body 1400 R x, 24:31852
radiation effects on mitochondria in liver of, whole-body, 21:34772
radiation effects on mitochondria of, lethal whole-body x, 22:23453
radiation effects on mitochondria of, x, 23:6349(R) (NYO-3361-11)
radiation effects on mitosis in bone marrow cells in, RBE of protons and γ for, 21:16444(T) (JPRS-38272, pp 154-5)

radiation effects on mitosis in bone marrow cells and phagocytic activity of reticuloendothelial cells of, protective effects of direct electric current against x, 25:42530
radiation effects on mitosis in cells of bone marrow and thymus of, effects of divalent cations on γ, 22:23572
radiation effects on mitosis in cells of regenerating liver in, x, 22:8468
radiation effects on mitosis in fibroblasts of, x, 23:16370
radiation effects on mitosis in hematopoietic and lymphatic cells of, effects of calcium content of blood, colchicine, disodium hydrogen phosphate, and EDTA on γ, 22:8604
radiation effects on mitosis in kidneys of, protective effects of bone marrow and cystamine against x, 23:2863
radiation effects on mitosis in regenerating liver of, in comparison to effects on tumor tissue, electron, γ, photon, and x, 22:40851
radiation effects on mitosis of corneal epithelial cells of, γ, 22:49513
radiation effects on mitosis of thymic lymphocytes in, effects of calcium on cobalt-60, 23:45646
radiation effects on mitotic activity in bone marrow cells of, effects of species on x, 25:58116
radiation effects on mitotic activity in kidneys of, following inhalation of radon-220, α and γ, 24:29734
radiation effects on mitotic activity in rectum epithelium in, stimulating, 24:25398
radiation effects on mitotic activity of liver cells of, electron, γ, and x, 22:8463
radiation effects on mitotic indexes in femoral bone marrow of, effects of dose fractionation on x, 23:50349
radiation effects on molecular composition of myelin of, effects of age on x, 22:25723 (UCLA-12-668, pp 71-84)
radiation effects on molecular structure of DNA in thymus of, γ, 21:36727
radiation effects on molecular structure of DNA in liver and thymus of, effects of dose on γ, 22:23435
radiation effects on molecular structure of hemoglobin in, 24:14419
radiation effects on morphogenesis of ciliary body and iris of, culture study of x, 22:38467
radiation effects on morphology and number of nucleoli in cells of regenerating liver in, whole-body x, 22:10733
radiation effects on morphology and sulfhydryl group content of tissues in, following therapeutic intraperitoneal injection of colloidal gold-198 and yttrium-90 silicate, 24:48704
radiation effects on morphology and survival of cells in normal tissues and sarcomas in, fast neutron and x, 22:49419
radiation effects on morphology and weight of kidneys of, effects of unilateral nephrectomy on x, 22:45708
radiation effects on morphology of adrenal glands of, effects of dose on strontium-90 β, 22:51967
radiation effects on morphology of adrenal glands in, effects of dose on x, 25:52190
radiation effects on morphology of cerebellum in brain of infant, effects of dose fractionation on x, 22:49533
radiation effects on morphology of developing brain in fetal, γ and x, 21:20327(R) (TID-23636)
radiation effects on morphology of gonads and survival of, protective effects of AET, antibiotics, bone marrow, MET, serotonin, and vitamin B_{12} against lethal ionizing, 22:31157
radiation effects on morphology of lungs of, single fixed particle of cobalt-60 γ, 24:48709
radiation effects on morphology of mucosa of small intestine of, 21:26555 (BNWL-SA-1143)
radiation effects on morphology of nuclei in thymocytes of effects of respiration on x, 22:21437
radiation effects on morphology of organs in, following intravenous administration of protactinium-233, β, 25:24322(T) (AEC-tr-7195, pp 330-8)
radiation effects on morphology of organs in, protective effects of AET against x, 22:21551
radiation effects on morphology of peritoneal mast cells of, x, 22:43427
radiation effects on morphology of thyroid of, iodine-131 β and γ, 23:14277
radiation effects on morphology of tissues in teeth and tooth appendages in, γ, 22:23625
radiation effects on morphology of Yoshida ascites tumor cells in, x, 21:28383
radiation effects on mortality and immune reactions in, to Salmonella, effects of vitamin K3 on x, 21:4849
radiation effects on mortality in, protective effects of diatrizoate sodium, hexamethylenetetramine, and Nipagin-M against whole-body x, 24:23240
radiation effects on mortality of, effects of age at exposure on x, 23:29563 (AD-675514)
radiation effects on mortality of, effects of dose and skin wounds on x, 22:21596
radiation effects on mortality of, effects of hypothermic condition on gamma, 25:27023
radiation effects on mortality of, protective effects of antibiotics against whole-body, 22:10851
radiation effects on motor activity of small intestine of, effects of time following exposure on whole-body x, 24:32208
radiation effects on motor performance of, prenatal x, 21:30892
radiation effects on mucoprotein content in urine of, effects of ACTH and 5-hydroxytryptamine on whole-body x, 21:34731
radiation effects on mucosa and muscular layer of small intestine in, whole-body supralethal, 24:27697
radiation effects on myelin content of brain of, effects of head exposure on x, 22:21448
radiation effects on myelin formation in cultures of brains of, deuterium ion, helium ion, and x, 24:29710 (UCRL-19481)
radiation effects on myeloid hematopoiesis in, protective effects of calcium and fluorine supplementation of diet on β, 21:34794
radiation effects on myelopoiesis in bone marrow of, β, 22:6875
radiation effects on myocarditis in, following injection of β-hemolytic streptococci, x, 21:11059
radiation effects on NAD and tryptophan oxygenase in, effects of dose on x, 24:9773
radiation effects on nasal mucosa and survival of, internal strontium-90 β and external proton, 22:51992
radiation effects on natural immunity of, effects of homologous DNA on γ, 25:44828
radiation effects on neoplasms of, effects of fractionated dose on, 22:23648
radiation effects on neoplasms of, effects of oxygen on protective effects of AET against x, 22:36304
radiation effects on nerve cells in cerebellar cortex of newborn, 21:36719
radiation effects on nerve cells of, alpha particles, 21:6676
radiation effects on nerve elements of gastrointestinal tract of, latent polonium-210 α and γ and strontium-90 β, 23:12225
radiation effects on nerve transplants in, comparison of, with effects of azathioprine, 22:40951
radiation effects on nerves of skin and muscles of, post-irradiation protective effects of coamid against, 24:748
radiation effects on nervous activity of heart and skeletal muscles of, iodine-131 β and γ, 24:34694
radiation effects on nervous system and physiology of, effects of dose, drugs, and environmental temperature on microwave, 22:554(R) (UR-49-810)
radiation effects on nervous system and survival of, effects of dose and strain on, 22:23659
radiation effects on nervous system of embryos of, x, 23:921
radiation effects on nervous system of, comparison of internal manganese-54 with external gamma, 25:24344
radiation effects on nervous system of, effects of wave intensity on microwave, 21:36714
radiation effects on nervous system of, in utero x, 22:51892
radiation effects on nervous system of, long term, low dose, ultra high frequency electromagnetic, 24:46660
radiation effects on nervous system of, protective effects of AET against x, 21:36634
radiation effects on nervous system of, use of electroshock seizures as indicator of x, 22:36390
radiation effects on neural retina in two-day-old, x, 21:6626
radiation effects on neural transmission in cervical sympathetic ganglia of, effects of dose on β, 23:33812
radiation effects on neuro-humoral regulation in, low dose phosphorus-32 β and iodine-131 β and γ, 24:44596
radiation effects on neurohypophysis of, effects of dehydration and rehydration on, 21:22344
radiation effects on neuromuscular response in, whole-body ionizing, 24:870
radiation effects on neuron activity in olfactory bulb of, effects of air, oxygen, argon and nitrogen perfusion on, x, 21:6631
radiation effects on neurons in brain of, electron microscopy of x, 25:16331
radiation effects on neurons of spinal cord in, effects of parabiosis on x, 22:49567
radiation effects on neurosecretion of hypothalamus of, γ, 23:29369
radiation effects on neurosecretions by, polonium-210 α and strontium-90 β, 23:22369(T) (AEC-tr-6944, pp 300-8)
radiation effects on neurosecretory cell function in, γ, 21:22768
radiation effects on neurosecretory cells in, partial regeneration of ultrastructure following whole-body γ, 25:49298
radiation effects on neurosecretory function of hypothalamus of, effects of adrenotropic substances on, 22:51991
radiation effects on neurosecretory processes in hypothalamus and posterior pituitary of, protective effects of cystamine and cysteamine against γ and x, 22:40565
radiation effects on nicotinamide adenine dinucleotide activity in liver and spleen of, effects of p-cylormercuribenzoate on whole-body x, 24:587
radiation effects on nicotinamide methylation in liver sections of, x, 21:17965
radiation effects on nitrogen balance, polyuria, and weight of, protective effects of nortestosterone against γ and x, 22:51775
radiation effects on nitrogen excretion in large intestine of, whole-body x, 22:33922
radiation effects on noradrenaline and serotonin levels in tissues of, whole-body x, 25:26959
radiation effects on normal and neoplastic tissues of, effects of hypothermia and oxygen tension and x, 21:43458
radiation effects on novocaine action in isolated heart of, following whole-body exposure to 600 or 1000 R, x, 25:26798
radiation effects on nuclear histones of liver and spleen of, γ, 21:26375
radiation effects on nucleated bone marrow cells of, combined effects of cytotoxic drugs on x, 22:45624
radiation effects on nuclei of glial and nerve cells of, effects of dose on, 22:51361
radiation effects on nuclei of lymphocytes and thymocytes of, effects of dose and incubation time on pan, 22:33756
radiation effects on nuclei of sciatic nerves of, effects of crushing nerve on x, 23:20095
radiation effects on nuclei of thymocytes of, combined effects of valinomycin on, 23:805
radiation effects on nucleic acid content of brain of, in utero x, 22:49249
radiation effects on nucleic acid metabolism in spleen of, given diets of differing fatty acid contents, x, 21:26376
radiation effects on nucleic acid metabolism in thymocytes of, in vitro x, 25:44773
radiation effects on nucleoside phosphorylases in erythrocytes of, effects of dose on, 22:45508(R) (PG-Report-826)
radiation effects on number of dysplastic hairs and nucleated bone marrow cells in, protective effects of cystamine against x, 25:44836
radiation effects on number of epithelial cells in small intestine in, regeneration following γ, 25:35220
radiation effects on number of hemopoietic colonies in spleen of, protective effects of cystamine against γ, 21:4832
radiation effects on number of immunologically competent cells in spleen of, effects of bone marrow grafts on, 22:40518(R) (RT/BIO-(68)3)
radiation effects on number of neoplastic cells in blood of, yttrium-90, 22:36367
radiation effects on numbers of cysteine-rich glial cells in brain of, effects of dose and head exposure on x, 25:58106
radiation effects on occurrence of neoplasms in, long-term promethium-147 β, 23:22385(T) (AEC-tr-6944, pp 470-83)
radiation effects on odontogenesis in, comparison of irradiation of head and thyroid-parathyroid region, x, 21:24652
radiation effects on odor, refractive index, and specific weight of urine of, x, 24:12307
radiation effects on olfactory bulb cells of, electron microscopy of x, 25:55336
radiation effects on olfactory bulb neurons in, x, 22:552(R) (COO-1669-1)
radiation effects on olfactory organs of, effects of oxygen concentration on x, 23:50831(R) (COO-1669-6)
radiation effects on olfactory receptors of, x, 22:38426(R) (NYO-3698-1)
radiation effects on olfactory system of, mechanisms in acute x, 22:51870(R) (COO-1669-4)
radiation effects on one partner of parabiont, pathological whole-body x, 21:39446(R) (NYO-3777-7)
radiation effects on oocytes of fetal, following maternal infusion of tritium-labeled thymidine during pregnancy, 25:42650
radiation effects on oogenesis in postpubertal, γ, 21:24577
radiation effects on oral tissues of, histochemical and histological analysis of deuteron, 22:568
radiation effects on organelles in liver cells of, chemiluminescence and ESR studies of, 22:51401
radiation effects on organs and tissues of, laser, 22:31276
radiation effects on organs and tissues of, mechanism of protective effects of adrenalin, AET, and cysteine against in vitro and in vivo, 25:42523
radiation effects on organs and tumors of, combined effects of natulan on, 22:40838
radiation effects on organs of, effects of dose and in utero exposure on tritium β, 24:23356 (UR-49-1254)
radiation effects on organs of, fast neutron, 22:43468
radiation effects on organs of, laser, 23:48228
radiation effects on origin of thymidine in urine of, γ, 23:50359
radiation effects on orthodromic responses of, following exposure of spinal cord, x, 25:58101
radiation effects on osmotic resistance of leukocytes of, effects of exercise on, 23:16410
radiation effects on osmotic stability of leukocytes of, from 1 day to 2 months following exposure, effects of season on, 24:27663
radiation effects on osteocytes of, effects of exposure time on x, 23:16391
radiation effects on ova in, lethal x, 21:43513
radiation effects on ovarian follicles, γ, 21:22656
radiation effects on ovarian intravascular compartment in, during metestrus, whole-body x, 25:32578
radiation effects on ovaries of, differential counting of follicles for determining, 22:45710
radiation effects on ovaries of, effects of progesterones on ionizing, 22:33945
radiation effects on ovaries of, following administration of continuous small doses during intrauterine development, 21:13029
radiation effects on ovaries of, in relation to secretion of progesterone, x, 23:31964
radiation effects on oxidation-reduction potential in tissues of, protective effects of AET, MEA, or serotonin in combination with hypoxia against x, 25:42511
radiation effects on oxidative phosphorylation and respiration in spleen mitochondria of, protective effects of homologous bone marrow injections against acute x, 25:11100
radiation effects on oxidative phosphorylation in mitochondria from liver and spleen of, whole-body γ, 22:8442
radiation effects on oxidative phosphorylation in mitochondria of brain in, protective effects of galascorbin against, 23:50639
radiation effects on oxidative phosphorylation in mitochondria of liver and spleen in, whole-body γ and x, 22:6750
radiation effects on oxidative phosphorylation in liver of, γ, 21:10755
radiation effects on oxidative phosphorylation in mitochondria of livers of, protective effects of O-(β-hydroxyethyl)-rutoside against, 23:22348
radiation effects on oxidative phosphorylation in mitochondria of, neutron and x, 22:16981
radiation effects on oxidative phosphorylation in brain and liver mitochondria in, effects of dose on x, 25:35216
radiation effects on oxidative phosphorylation in tissues of, radon, 25:57932

radiation effects on oxidative phosphorylation in mitochondria of, γ and x, 21:34590
radiation effects on oxygen consumption by leukocytes in, phosphorus-32 β, 23:29789
radiation effects on oxygen consumption by, effects of direct electric current to brain on x, 23:10082
radiation effects on oxygen level in, following intramuscular injection of ATP, γ, 23:24517
radiation effects on oxygen uptake by jejunum from, effects of MEA on x, 21:24612
radiation effects on oxygen uptake in liver slices, mitochondria, and mitochondrial membranes of, x, 25:35223
radiation effects on p-nitrophenol metabolism in, whole-body x, 25:42289
radiation effects on pancreatic islets in, β, 21:4768
radiation effects on parabiont pairs of, effects of partner shielding on x, 21:30837
radiation effects on parabiotic, protective effects of shielding one partner on lethal effects of x, 21:24552 (USNRDL-TR-67-27)
radiation effects on parameters of peripheral blood of, effects of fasting and dose fractionation on cobalt-60 γ, 24:27696
radiation effects on parodontium in, 25:26960
radiation effects on parotid glands of, protective effects of isoproterenol against x, 23:43800
radiation effects on pars tuberalis in, x, 25:24365
radiation effects on pathomorphology of brain of, γ, mixed γ—neutron, and proton, 25:29644
radiation effects on paws of, protective effects of low temperature and tourniquet on, 22:40774
radiation effects on pentobarbital tolerance in, combined effects of amphetamide on x, 24:48701
radiation effects on pepsinogen activity in gastric mucosa of, acute cobalt-60 γ, 23:6385
radiation effects on performance of nerve heterografts in, effects of pretreatment with specific antiserum on, 22:51364
radiation effects on performance of nerve heterografts in, combined effects of Imuran on charged particle, 23:7952
radiation effects on periodontium in, following exposure of trunk, 24:25567
radiation effects on periodontium of, comparison of local and whole-body exposure x, 25:52223
radiation effects on peripheral blood cells in, following intratracheal injection of insoluble or soluble compounds of iron-59, β and γ, 22:21601
radiation effects on peripheral blood cells of, β and γ, 21:41493
radiation effects on peripheral blood in, effects of bis(3-hydroxypropyl) trisulfide on high dose x, 25:52186
radiation effects on peripheral blood of rats, cerium-144 β and γ and strontium-90 β, 22:19442
radiation effects on peripheral blood of, effects of trithiodipropanol on x, 25:19131
radiation effects on peripheral blood of, following intrauterine exposure, effects of colchicine or endotoxin on x, 24:23323 (CONF-690501-, pp 357-64)
radiation effects on peripheral nerve of, recovery from fractionated x, 22:45714
radiation effects on peristaltic function and tonicity in gastrointestinal tracts of, protective effects of cystamine against gamma, 25:24348
radiation effects on permeability of blood brain barrier of, to Evans blue, effects of dose on whole-body x, 25:24049
radiation effects on permeability of cell membranes in thymus of, to magnesium ions, protective effects of esculamine against x, 25:19025
radiation effects on peroxide content in blood serum of, whole-body x, 21:45785
radiation effects on pethidine demethylating system in liver microsomes of, x, 25:27034
radiation effects on phagocytes in, following intraperitoneal administration of plutonium-239, γ, 23:22419
radiation effects on phagocytic activity in liver and spleen of, x, 21:45841
radiation effects on phagocytic activity of reticuloendothelial system in, role of opsonin in x, 23:43709(R) (ORO-3853-85)
radiation effects on phagocytic activity of reticulo-endothelial system in, effects of dose on γ, 22:45706
radiation effects on phagocytic activity of reticulo-endothelial system of, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on phagocytic function of RES in, effects of dose fractionation and starvation on cobalt-60 γ, 23:35911
radiation effects on phagocytic function of reticuloendothelial cells in, effects of dose fractionation and fasting on cobalt-60 γ, 24:27682
radiation effects on phagocytosis and skin autoflora in, thorium α, 23:22439(T) (AEC-tr-6944, pp 710-12)
radiation effects on phagocytosis by RES of, effects of fractionated or single dose on x, 24:826
radiation effects on phagocytosis in reticulo-endothelial system in, comparison of single doses with dose fractionation for cobalt-60 γ, 24:34096
radiation effects on phagocytosis in, effects of dose fractionation on, 23:14257
radiation effects on phagocytosis in, following injection of India ink, 22:23617
radiation effects on phenol formation in, 21:10745
radiation effects on phosphatase activity in skin wounds of, during healing, 24:27544
radiation effects on phosphatase content of kidney and liver of, neptunium-237 α, 22:47471
radiation effects on phospholipase activity in intestinal mucosa of, x, 22:553(R) (ORO-3329-3)
radiation effects on phospholipase activity in tissues of, x, 24:4561(R) (ORO-3329-5)
radiation effects on phospholipase B activity in intestine of, in relation to number of eosinophils, x, 25:4455(R) (ORO-3329-7)
radiation effects on phospholipid synthesis in bone-marrow and liver of, γ, 21:26612
radiation effects on phosphorus-32 uptake by bone marrow, liver, and spleen of, effects of bone marrow transplants on x, 25:58123
radiation effects on phosphorus-32 uptake by DNA and RNA of ascites hepatoma cells in, combined effects of carcinostatics on cobalt-60 γ, 22:31025
radiation effects on phosphorus-32 uptake by myocardium in, protective effects of cystamine against whole-body γ, 25:24219
radiation effects on phosphorus-32 uptake by proteins of calcified tissues of, 500 R x, 24:27538
radiation effects on phrenic-nerve-diaphragm preparation of, combined effects of d-tubocurarine on x, 23:50845
radiation effects on physicochemical agents in organs of, whole-body, 24:34073 (AD-690855)
radiation effects on physicochemical properties of skin collagen from, x, 25:44775
radiation effects on physiology and survival of albino, combined effects of heat treatment on ionizing, 22:10883
radiation effects on physiology of cerebral cortex of, x, 22:575
radiation effects on physiology of intestines of, combined effects of chronic restraint on ionizing, 21:45659 (N-67-21424)
radiation effects on physiology of lymph system in, effects of dose on x, 25:13481
radiation effects on physiology of, combined protective effects of antibiotics, bone marrow, drugs, and vitamins against, 21:43454
radiation effects on physiology of, effects of hypoxia on, 21:16445(T) (JPRS-38272, pp 246-7)
radiation effects on pituitary glands of, effects of ablation of neurosecretory nuclei of hypothalamus on γ, 24:51075
radiation effects on pituitary hormones of, effects of head exposure on x, 22:40539
radiation effects on placenta and fetal liver in, cobalt-60, 24:34097
radiation effects on placental glycogen of whole-body γ, 21:1713
radiation effects on plasma clearance of β-aminoisobutyric acid in, x, 21:20347
radiation effects on plasma deoxycytidine in, effects of dose on x, 23:2756
radiation effects on plasma lipoprotein synthesis in, sublethal x, 25:16041
radiation effects on plasma phospholipids of, effects of AET on whole-body γ, 21:20044
radiation effects on plasma protein metabolism in, following exposure of liver, 23:26693
radiation effects on plasma protein metabolism in, carbon-14 and iodine-131 tracer studies of x, 25:46733
radiation effects on plasma protein permeability of blood vessels in muscles, skin, and tumors in, x, 24:21288
radiation effects on platelet count of, effects of thiols on, 22:47578
radiation effects on polymerization of collagen in skin of, effects of age and dose on γ, 25:24058
radiation effects on polyribosome organization and RNA labeling in liver of adrenalectomized and normal, 23:41244
radiation effects on polyribosome patterns in liver of, combined effects of adrenalectomy on γ, 24:32225
radiation effects on polyribosomes of liver in, effects of regeneration and surgery on x, 22:45388
radiation effects on populations of Rattus exulans and Rattus rattus at Eniwetok following nuclear explosions, 21:24543 (COO-1485-10)
radiation effects on populations of small lymphocytes in blood of, x, 24:12256
radiation effects on populations of stem cells in bone marrow of, development of computer model for, 25:2590
radiation effects on posterior lobe of pituitary of, x, 21:11030
radiation effects on postnatal behavior of, following exposure at various stages of gestation, 21:24540 (CONF-631008, pp 111-17)
radiation effects on postnatal development following exposure in utero, effects of dose on γ, 25:46999
radiation effects on postnatal development of adrenal glands of, x, 21:14715
radiation effects on postnatal growth and mortality of, effects of prenatal exposure on x, 24:850
radiation effects on postnatal, prenatal tritium β, 23:22387(T) (AEC-tr-6944, pp 493-502)
radiation effects on potassium and sodium content of brain and muscular tissues in, lethal and sublethal, 25:13566
radiation effects on potassium-42 uptake by erythrocytes of, cobalt-60 γ, 23:35641
radiation effects on pre-, peri-, and post-natal survival of, following pre-fertilization maternal exposure, x, 22:40644
radiation effects on pregnant, combined effects of cloramiphene on cobalt-60 γ, 25:11104
radiation effects on pregnant, protective effects of estrogen against cobalt-60 γ, 25:11104
radiation effects on preimplantation blastocysts of, 25:13560
radiation effects on primary immune response in, protective effects of combined hypothermia-hypoxia treatments against x, 21:26565(T) (TT-65-50409/4, pp 19-26)
radiation effects on primordial oocytes of, effects of dose on x, 24:21297
radiation effects on production and secretion of corticosteroids in, protective effects of cysteamine against x, 22:31170
radiation effects on production of antibodies by, protective effects of serotonin against phosphorus-32 β, 22:40805
radiation effects on production of erythropoietins in, comparative effects of endoxan on, x, 21:17972
radiation effects on production of hemolysin in spleen of, following injection of sheep erythrocytes, 23:50380
radiation effects on production of hemolysins by thymectomized, after exposure of spleen, x, 21:41497
radiation effects on progeny of, effects of dose on x, 24:23332 (CONF-690501-, pp 453-74)
radiation effects on progesterone use in, x, 22:25998
radiation effects on proliferation dynamics of cells in seminiferous epithelium, spleen, and thymus of young, effects of dose and dose rate on γ, 24:36812(R) (NYO-3970-41)
radiation effects on proliferation of bone marrow stem cells of, determination of, by methotrexate and tritium-labeled thymidine, γ, 23:8066
radiation effects on proliferation of bone marrow cells in, combined effects of fasting on acute fractionated γ, 22:51984
radiation effects on proliferation of bone marrow cells of, effects of fractionated-dose γ, 21:20379
radiation effects on proliferation of bone marrow cells of, effects of post irradiation bleeding on, 22:40837
radiation effects on proliferation of cells during scar formation in injured spinal cord of, x, 22:40926
radiation effects on proliferation of implanted lymphocytes in, effects of dose on whole-body γ, 25:46755
radiation effects on proliferation of maternal blood cells in male, effects of irradiation of fetus on x, 22:6893
radiation effects on proliferation of spermatogonia of, radioautography of x, 24:32223
radiation effects on proliferation of tumor cells in, protective effects of zymosan against γ, 24:32036
radiation effects on protein composition of blood serum of, combined effects of inflammation on, 23:24531
radiation effects on protein content in blood serum of, relation of, to pathological changes in kidneys and liver, whole-body x, 21:36699
radiation effects on protein content of developing brain of, effects of age and hypophysectomy on x, 25:4694 (UCLA-12-791)
radiation effects on protein fractions of blood, bone marrow, and liver of, x, 22:446
radiation effects on protein metabolism in, 25:24363
radiation effects on protein metabolism in blood of, x, 22:23429
radiation effects on protein metabolism in fetal, x, 24:41960 (BRH/DBE-70-1, pp 95-151)
radiation effects on protein metabolism in retina of, x, 21:11037
radiation effects on protein metabolism in retina of, x, 21:11038
radiation effects on protein metabolism in, x, 25:26624
radiation effects on protein synthesis by liver microsomal fractions in, subsequent whole-body γ, 25:27006
radiation effects on protein synthesis in blood plasma of, whole-body fast neutron, 22:6752
radiation effects on protein synthesis in developing brain of newborn, x, 21:36488
radiation effects on protein synthesis in endocrine glands of, effects of anabolic substances on, 21:28602
radiation effects on protein synthesis in liver and spleen cells of, alone and in combination with immunization, 25:13376
radiation effects on protein synthesis in liver cells of, x, 24:11945
radiation effects on protein synthesis in liver microsomes of, x, 22:453
radiation effects on protein synthesis in liver, intestine, and spleen cell nuclei of, γ, 21:8719
radiation effects on protein synthesis in mammary tissues of, γ, 23:16227
radiation effects on protein synthesis in regenerating liver of, x, 24:31855
radiation effects on protein synthesis in regenerating liver of, following partial hepatectomy, x, 24:14432
radiation effects on protein synthesis in, mechanisms in γ and x, 24:9752(R) (COO-1754-2)
radiation effects on proteins in blood of pregnant, combined effects of adrenalectomy on x, 24:36700
radiation effects on proteins in blood of, whole-body ionizing, 22:52004
radiation effects on proteins in skin of, chromatographic and electrophoretic analyses of x, 22:51886
radiation effects on proteins in urine of, γ, 22:51384
radiation effects on proteins of brain of, effects of season on x, 23:35660
radiation effects on proteolytic activity in liver of, effects of seasonal variations on γ and x, 21:36519
radiation effects on proteolytic activity of thymus gland of, whole-body γ, 21:32566
radiation effects on psychomotor behavior of, combined effects of fasting on acute γ, 23:33823 (AD-681074)
radiation effects on Purkinje cells of, 40,000 R x, 24:34082
radiation effects on pyramidone N-demethylase and tyrosine aminotransferase activity in liver of, 25:44935
radiation effects on pyridine nucleotide content in liver of, x, 21:22770
radiation effects on pyrimidine excretion by, x, 21:36500
radiation effects on quality of semen in, effects of dose fractionation on γ, 22:10868
radiation effects on quenching properties of blood plasma and serum from, γ, 22:38247 (A-AC-82/G/L-1163)
radiation effects on radioisotope content of, following external or internal contamination, x, 24:4568
radiation effects on radiotoxin production in liver of, strontium-90 β, 25:29639
radiation effects on rate of bone remodeling in, 0 to 45 days after local exposure, abscopal x, 23:33843
radiation effects on rate of DNA synthesis in regenerating liver in, tracer study on local x, 24:34124
radiation effects on rate of gas exchange in white, x, 24:27535
radiation effects on rate of gas exchange in white, following introduction of radioisotopes into gastrointestinal tract, 24:27535

radiation effects on rate of growth of, following exposure as fetuses, γ, 22:38427(R) (ORO-659)
radiation effects on rate of infestation of, by fleas at National Reactor Testing Station, 23:10095
radiation effects on rate of mitosis in tumor cells transplanted into, RBE of electron, γ, and x, 22:12763
radiation effects on rate of synthesis of corticosteroids in adrenal cortex of, x, 21:39328(T) (TT-66-57008/3-4, pp 176-87)
radiation effects on rate of wound healing and survival of, effects of time of surgical wounding on cobalt-60 γ, 23:8060
radiation effects on rectal mucous membrane of, protective effects of norepinephrine and sodium sulfite against γ, 24:48585
radiation effects on rectum in, effects of dose and time on mucosa regeneration following x, 24:873
radiation effects on rectum in, effects of dose on proton or x, 24:48642
radiation effects on regenerating liver of, bibliography on, 24:51023 (AAEC/LIB/Bib-243)
radiation effects on regeneration in spleen of, following transplantation into unirradiated donor, x, 24:6126
radiation effects on regeneration of bone marrow cells of plethoric, x, 22:38470
radiation effects on regeneration of bone marrow in femur of, following mechanical depletion, x, 24:17133 (UCSF-10-P-2-96)
radiation effects on regeneration of bone marrow of, 22:47617
radiation effects on regeneration of bone marrow of, effects of shielding on x, 22:40850
radiation effects on regeneration of bone marrow of, following mechanical injury to marrow, x, 23:35901
radiation effects on regeneration of liver in, protective effects of extracts from calf blood against γ, 21:28548
radiation effects on regeneration of liver in, with partial hepatectomy, effects of cobalt compounds and ferrant on whole-body x, 25:16355
radiation effects on regeneration of liver of hepatectomized, x, 21:16269
radiation effects on regeneration of muscles in, effects of coamides on x, 22:8438
radiation effects on regeneration of sciatic nerve of, inhibitory x, 23:43859
radiation effects on regeneration of transplanted adrenocortical tissues in, 25:24343
radiation effects on regenerative capacity of in vivo cultured spleen tissues from, effects of dose on x, 23:35846
radiation effects on rejection of kidney and skin transplants by, effects of lymphoid cells on x, 23:2937
radiation effects on release of free fatty acids from epididymus of, effects of adrenalectomy and reserpine on whole-body x, 22:12789
radiation effects on renewal patterns of liver cells of, γ, tritium, and x, 24:2542(R) (NYO-2778-7)
radiation effects on replication kinetics of ileal cells in, following administration of tritium-labeled DNA, β, 22:45660
radiation effects on replication of liver cells in, β, 21:36707
radiation effects on replication of spleen lymphocytes in, tritium beta, 25:26994
radiation effects on reproduction and tissues of, microwave, 24:19365
radiation effects on reproduction in, effects of pre-mating on whole-body x, 21:45801
radiation effects on reproduction in, x, 22:15099
radiation effects on reproduction of cells in intestine of, fast neutron, 22:40918
radiation effects on reproduction of cells in liver of, following partial hepatectomy, chronic whole-body γ, 22:31250
radiation effects on reproduction of goitrogen-stimulated thyroid cells in, 22:38376
radiation effects on reproduction of male, protective effects of DNA extracted from kidney, liver, spleen, testes, and thymus against x, 23:12138(T) (AEC-tr-6646/4A, pp 127-32)
radiation effects on reproduction of, electromagnetic, 25:13571
radiation effects on reproductive integrity of thyroid cells in, effects of mean absorbed dose to cell nuclei on comparative iodine-125 and iodine-131, 24:51073
radiation effects on reproductive physiology and mortality of, effects of age on x, 24:23328 (CONF-690501-, pp 407-17)
radiation effects on reproductive system in female, following exposure of head region during infancy, effects of dose on whole-body x, 24:27680
radiation effects on reproductive system of female, effects of dose and dose rate on γ, 25:16310 (ORO-678, pp 25-7)
radiation effects on resistance of, to low temperature, effects of dose on whole-body x, 22:43392 (AD-665664)
radiation effects on resistance of, to tularemia following administration in aerosols, x, 25:21869
radiation effects on respiration and synthesis of ATP in thymus nuclei in, protective effects of cysteamine against, 23:50632
radiation effects on respiration in brain tissue slices from, in vitro x, 22:49495
radiation effects on respiration in cultured brain cells from, laser, 22:43444
radiation effects on respiration in transplanted carcinomas in, effects of iron content of body and tumor on whole-body x, 21:1832
radiation effects on respiration of leukocytes of, β and x, 22:23607
radiation effects on respiratory quotient of tissues of, protective effects of inosine and neuzyme against x, 24:12105
radiation effects on respiratory tract tissues in, additive effects of cortisone injections on pathological, 25:32564
radiation effects on response and recovery in, x, 21:8974
radiation effects on response of blood vessels of, to drugs, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on response of brain cells of, to freezing, x, 21:45816
radiation effects on response of developing, to hypnotic doses of barbital, neonatal whole-body x, 23:45644 (UCB-34-P-82-8)
radiation effects on response of olfactory bulb neurons of, in comparison to effects of amyl acetate and ozone, x, 25:39910(R) (COO-1669-7)
radiation effects on response of, to chlordiazepoxide, chlorpromazine, and triflupromazine, mixed γ and neutron, 23:26870 (AD-672741)
radiation effects on response to anesthetics in, γ, 23:912
radiation effects on response to saccharin taste in, x, 21:22654(R) (NYO-3359-3)
radiation effects on response to toxins of, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on response to tranquilizers, whole-body mixed γ and neutron, 25:55325
radiation effects on response to trauma of, whole-body x, 21:26557(R) (NYO-1680-1)
radiation effects on retention of stomach content in, effects of irradiation site on, 22:28688
radiation effects on reticulo-endothelial function in, evident 6 to 8 hours after injection, combined effects of sex hormones on thorium dioxide, 23:26666
radiation effects on reticulo-endothelial phagocytosis and serum opsonic activity in, whole-body x, 23:35898
radiation effects on reticulo-endothelial system of, effects of, on immune response, radiogold, 23:47980
radiation effects on retina of eyes in, effects of thermal damage on repair of visible light, 24:41988
radiation effects on retina of, effects of temperature during exposure on uv and visible light, 21:14736
radiation effects on ribosomes in liver of, whole-body fast neutron, 23:9895
radiation effects on RNA biosynthesis in liver of, x, 21:22293
radiation effects on RNA content in lens cells in, 21:32766
radiation effects on RNA content of cells of spinal cord and spinal ganglia, γ, 21:6438
radiation effects on RNA metabolism in fetal liver of, 21:22245
radiation effects on RNA metabolism in liver of, x, 21:41374
radiation effects on RNA metabolism in testis of, protective effects of DNA against x, 23:11939(T) (AEC-tr-6646/4A, pp 159-63)
radiation effects on RNA polymerase activity in tissues of, effects of adrenalectomy and fasting on whole-body x, 23:2786
radiation effects on RNA synthesis in liver cells of, x, 21:22255
radiation effects on RNA synthesis in liver of, 25:16027
radiation effects on RNA synthesis in liver of, during tryptophan pyrrolase induction, 23:43687
radiation effects on RNA synthesis in liver of, effects of actinomycin, DNAase, histones, and trypsin on, 24:16983
radiation effects on RNA synthesis in livers of, hybridization method for determining dose effect on, 25:26641
radiation effects on RNA-polymerase activity in regenerating liver of, effects of AET on x, 21:20401
radiation effects on rodent teeth of, x, 22:15111
radiation effects on root formation in teeth of, x, 22:52012
radiation effects on saccharin avoidance behavior of, effects of DMSO on x, 24:25572
radiation effects on saccharin preference in, effects of hippocampal lesions on x, 25:49296
radiation effects on saccharin-avoidance behavior in, effects of amygdala, olfactory bulb, and septal lesions on x, 25:42647
radiation effects on saccharose digestion in intestine of, effects of bile on x, 22:23622
radiation effects on saline intake and urine output of, effects of adrenalectomy on x, 23:50361
radiation effects on salivary glands in, study of enzyme activity for determining x, 23:50872
radiation effects on salivary glands of, effects of dose fractionation on megavoltage x, 23:45921
radiation effects on salt-seeking behavior in adrenalectomized, cobalt-60 γ, 24:8003
radiation effects on sarcoma cells of, effects of dose and dose fractionation on repair of, 24:34697
radiation effects on sarcoma transplants in, effects of dose fractionation on, in relation to radiosensitivity, 24:34703
radiation effects on sarcomas of, effects of drugs on, 22:33878
radiation effects on sciatic nerve cells of, combined effects of crush injury on x, 22:31221
radiation effects on sciatic nerve of, inhibition of regenerative capacity following, x, 21:12966
radiation effects on secondary immune reactions in, x, 22:12805
radiation effects on secondary sex ratio of, cumulative x, 22:40643
radiation effects on secretion by accessory reproductive organs of, x, 25:13366
radiation effects on secretion of ACTH by, x, 23:29363
radiation effects on secretion of adrenocorticotropin in, following exposure of head to x, 22:36393
radiation effects on secretion of aldosterone and corticosterone by adrenal glands of, whole-body x, 22:4690
radiation effects on segmentation time of neutrophils in, whole-body exposure, 21:22719
radiation effects on selenium-75 retention in, γ, 21:24624
radiation effects on seminiferous epithelium of, protective effects of DNA against x, 23:12139(T) (AEC-tr-6646/4A, pp 133-7)
radiation effects on sensitivity of cardiac muscle of, to anoxia, 24:34662
radiation effects on sensitivity of liver of, to dehydrocholic acid, effects of dose on x, 24:34657
radiation effects on sensitivity of, to anesthetics during radiation sickness, effects of radioprotective agents and trauma on γ and x, 23:31915
radiation effects on sensitivity of, to mercury poisoning, x, 24:19352
radiation effects on serotonin content of brain of, effects of iproniazid and reserpine on x, 23:38769
radiation effects on serotonin content of brain tissue in, acute x, 23:2773
radiation effects on serotonin content of tissues of, 23:31931
radiation effects on serotonin-secreting cells in intestine of, γ, 22:49539
radiation effects on serum antihyaluronidase activity and skin permeability of, protective effects of mercamine and serotonin against γ, 25:19031
radiation effects on serum lactic acid dehydrogenase activity in, combined external and internal, 21:20386
radiation effects on serum proteins in, immunoelectrophoretic determination of, γ, 21:11024
radiation effects on serum proteins of, combined effects of open skin wounds on whole-body x, 23:33860
radiation effects on serum proteins of, whole-body x, 22:463
radiation effects on sexual maturation of female, effects of hypothalamic lesions on x, 22:49634
radiation effects on sialic acid content of brain, heart, and liver in, combined effects of adrenalectomy on low-dose neutron and x, 25:501
radiation effects on silicotic pulmonary fibrogenesis in, comparison of effects of endoxan with γ, 23:48231
radiation effects on size distribution of lymphocytes of, effects of dose on x, 23:16415
radiation effects on size of miscible pool of deoxycytidine in, whole-body x, 23:35646
radiation effects on skin and transplanted tumors of, effects of noradrenaline-induced oxygen decrease on, 24:34415
radiation effects on skin and tumors of, effects of dose fractionation on neutron and x, 22:49480 (CONF-680410-, pp 21.1-25)
radiation effects on skin grafts in, γ, 22:19336
radiation effects on skin of hairless, vascular mechanism for x, 23:12213
radiation effects on skin of neck and tissues of esophagus and larynx of, laser, 25:16322
radiation effects on skin of, carcinogenic proton, 23:16379 (AD-668452)
radiation effects on skin of, combined effects of dose and dose fractionation on fast neutron and x, 23:35903
radiation effects on skin of, comparison of protective effects of cystamine and cysteamine against, 23:33740
radiation effects on skin of, effects of grid and seive pattern of beta and electron on tumor formation, 21:24597
radiation effects on skin of, effects of penetration depth on electron, 23:2938
radiation effects on skin of, effects of testosterone on x, 23:29758
radiation effects on skin of, effects of wavelength on uv, 24:36837
radiation effects on skin of, effects of, on growth of Walker 256 tumor cells following subcutaneous injection, x, 24:27684
radiation effects on skin of, protective effects of cystamine and troxerutin against x, 23:855
radiation effects on skin of, RBE of α, deuteron, fast neutron, and x for, 22:8596 (CONF-670305-, pp 128-42)
radiation effects on skin permeability for radon-222 in tails of, uv and x, 25:32535
radiation effects on skin reaction of, to tuberculin, x, 24:17002 (AD-695424)
radiation effects on skin transplantability in, γ, 21:28650
radiation effects on skin transplants in, effects of, on immune reactions, x, 24:34163
radiation effects on skin transplants in, local x, 24:2786
radiation effects on skin transplants of, 15 MeV neutron, 300 kV x, 24:34642
radiation effects on skin transplants, large-dose, 21:26641
radiation effects on sleep rhythm of, protective effects of serum against, 24:32200
radiation effects on small intestine cells of, renewal response following continuous, 22:49469 (CONF-680410-, pp 3.1-12)
radiation effects on small intestine of, in vivo-generated uv, 22:51882
radiation effects on small intestine of, x, 22:28656
radiation effects on small intestines of, whole-body x, 22:40595
radiation effects on sodium absorption by intestines of, x, 21:14537 (BNWL-280, pp 2-4)
radiation effects on sodium content in, effects of diet on fission neutron, 21:45782 (ORAU-101, pp 34-6)
radiation effects on sodium metabolism in, effects of dose of lower body exposure on x, 24:34610 (BNWL-1050(Pt.1), pp 1.3-6)
radiation effects on sodium metabolism in, tracer study of lethal abdominal, 24:14433
radiation effects on sodium sorption by intestine of, effects of sodium content of diet on x, 23:11942 (BNWL-SA-2064)
radiation effects on sodium-22 incorporation and transport in isolated small intestine of, following treatment with AET, 21:22248
radiation effects on sodium-24 excretion in, neutron, 22:51874 (ORAU-106, pp 5-104)
radiation effects on soft oral tissues of rats, effects of pulsing on laser, 22:40938
radiation effects on solubility of deoxyribonucleoprotein from spleen and thymus of, x, 21:20049

radiation effects on soluble collagens from skin of, uv, 21:45522
radiation effects on soluble proteins in tissues of brain and intestinal walls of, x, 22:28696
radiation effects on sorption and excretion of sodium and water from intestine in, x, 24:34611 (BNWL-1050(Pt.1), pp 1.6-8)
radiation effects on sorption by organs of, whole-body x, 24:41969
radiation effects on sorption of drugs and water from isolated intestine of, cobalt-60 γ, 24:17135
radiation effects on sorption of drugs by gastrointestinal tract of, 23:33630
radiation effects on sorption of dyes by organs of, x, 23:31930
radiation effects on sorption of glucose in intestines of, protective effects of cysteamine against x, 23:41349
radiation effects on sorption of lipids by cells of duodenal epithelium of, cerium-144 β and γ, 25:4695
radiation effects on sorption of naturally occurring folates in intestine of, 700-R whole-body x, 25:46724
radiation effects on sorption of sodium, vitamin B_{12}, and water in intestine of, effects of bile on x, 21:28340 (BNWL-SA-1145)
radiation effects on sorption of vitamin B_{12} by intestine of, x, 22:49545
radiation effects on sorption of vitamin B_{12} in intestines of, x, 22:10824 (BNWL-480, pp 1-19)
radiation effects on specific gravity of urine in, x, 23:31962
radiation effects on spermatocytes in, RBE for fast electron, 22:51884
radiation effects on spermatogenesis in, effects of cell phase on x, 22:33953
radiation effects on spermatogenesis in, protective effects of cysteamine against x, 21:34778
radiation effects on spinal cord of developing, x, 22:28640
radiation effects on spinal cord of, x, 22:49569
radiation effects on spinal cords of young, uptake of tritium-labeled thymidine by cells following x, 24:23298 (CONF-690501-, pp 841-55)
radiation effects on spleen cells of, whole-body x, 23:38474
radiation effects on spleen of, effects of, on immune reactions to 2,4-dinitrophenyl-bovine γ globulin and on blood level of lymphocytes, chronic phosphorus-32 β, 24:34175
radiation effects on spleen of, origin of erythropoiesis following, 24:41990
radiation effects on spleen of, whole-body x, 21:11094
radiation effects on spontaneous ingestion of sodium chloride by adrenalectomized, 21:30900
radiation effects on spontaneous motility of isolated segments of intestine from, following whole-body exposure, x, 22:25981
radiation effects on stability of DNA fractions from liver of, 23:45659
radiation effects on stability of histones in liver and thymus cell nuclei in, γ, 25:44936
radiation effects on stem cell population in, combined effects of phenylhydrazine and splenectomy on cesium-137 γ, 24:12247
radiation effects on stimulation threshold of muscle-nerve apparatus in hind paws of, following intratracheal and intraperitoneal injection of thorium dioxide, α, 25:4701
radiation effects on stomach from, effects on function and metabolism of isolated, x, 21:24602
radiation effects on stomach motility of, protective effects of papaverine against, 22:21556
radiation effects on stomach muscles of, effects of mechanical trauma on x, 23:922
radiation effects on strontium-85 metabolism by, whole-body γ, 24:36706
radiation effects on structure of alveoli in lungs in, following inhalation of plutonium-239 as oxide, 25:32539
radiation effects on structure of isolated liver mitochondria from, in relation to function, cobalt-60 γ, 23:933(R) (NIRS-6)
radiation effects on structure of thymocyte nuclei in, effects of phosphates on γ, 22:21581
radiation effects on subcellular fructosediphosphate aldolase activity in liver of, x, 25:44945
radiation effects on submaxillary gland of, effects of time of administration on protective effects of AET, cystamine, or tetramethylcystamine against γ, 25:26792
radiation effects on submaxillary glands and survival of, comparative radioprotective effects of AET, cystamine, cysteine, noradrenaline, serotonin, and tetramethylcystamine against γ, 25:26795
radiation effects on submicroscopic function and structure of thyroid gland in, γ, 23:35876
radiation effects on submolecular structure of DNA from thymus of, effects of temperature and time interval before second exposure on, 24:23123
radiation effects on succinic dehydrogenase activity in small intestine of, mechanisms in, 21:20055
radiation effects on succinoxidase activity of hearts of, γ, 21:4773
radiation effects on sucrose taste threshold of, followng tongue exposure, effects of dose on x, 25:37876(R) (NYO-3359-17)
radiation effects on sulfonamide content of blood of, 22:21614
radiation effects on survival and weight of, effects of oxygen uptake on, 22:47547
radiation effects on survival of bone marrow cells of, in vitro cesium-137 γ, 23:35841 (ORAU-107, pp 42-4)
radiation effects on survival of cartilage cells in, effects of anoxia on x, 22:23637
radiation effects on survival of cells in bone marrow of, x, 22:38437
radiation effects on survival of cells in growth cartilage of tibia of, effects of hypoxia on x, 22:36357
radiation effects on survival of cells in skin of, comparison of RBE for fast neutron and x, 25:52200
radiation effects on survival of cerebellar cells in, following incorporation for autoradiography, tritium β, 23:33835(R) (PU-2000(51))
radiation effects on survival of chromium-51-labeled erythrocytes in, role of spleen in x, 23:29784
radiation effects on survival of cotton, calculation of lethal dose for γ, 22:49518
radiation effects on survival of cultured thymocytes from, effects of dose on γ and x, 22:40883
radiation effects on survival of developing cerebellas cells in, effects of dose fractionation on recovery of x, 23:33835(R) (PU-2000(51))
radiation effects on survival of epithelial cells in intestine of, protective effects of protein metabolic inhibitor drugs against x, 24:39564
radiation effects on survival of erythrocytes in, effects of dose on whole-body x, 25:16284
radiation effects on survival of fetuses in, effects of progesterone treatment on x, 22:38350
radiation effects on survival of Long—Evans and Wistar, with Oberling—Guerin myeloma, combined effects of daunomycin on x, 24:14591
radiation effects on survival of migratory primitive brain cells in, x, 23:33835(R) (PU-2000(51))
radiation effects on survival of normal and tumor-bearing, protective effects of cysteine combined with fructose and N-acetyl-homocysteine-thiolactone against x, 22:40791
radiation effects on survival of offspring of female, effects of age of fetus on x, 22:49629
radiation effects on survival of progeny of, protective effects of AET, antibiotics, bone marrow, MEA, serotonin, and vitamins against lethal, 24:12131
radiation effects on survival of Rattus norvegicus and R. rattus, γ, 25:37864 (ANL-7770, pp 1-19)
radiation effects on survival of spermatogonia in, acute x, 23:14266
radiation effects on survival of thymocytes from, radioprotective effects of highly polymerized nucleic acids and nucleic acid bases on, in vitro x, 21:24459
radiation effects on survival of transplanted tumor cells in, effects of oxygen on x, 22:10797
radiation effects on survival of type A spermatogonia in, following single exposure of testes, x, 24:32194
radiation effects on survival of, at Eniwetok Atoll, 21:43445 (COO-1485-12)
radiation effects on survival of, combined effects of removal of adrenal gland on x, 21:34780
radiation effects on survival of, combined effects of DNA or thymidine on whole-body γ, 23:43694
radiation effects on survival of, combined effects of cerebral exposure and hypertension on x, 24:32205
radiation effects on survival of, combined effects of hypobarism and hypoxia on low dose whole-body, cobalt-60 γ, 23:45884 (AD-690130)
radiation effects on survival of, comparison of pulsed and steady-state γ, 24:7986 (AD-691411)
radiation effects on survival of, comparison of pulsed and steady-state mixed γ and neutron, 25:6802
radiation effects on survival of, comparison of RBE of dose and dose rate of fast neutron and x, 24:51068
radiation effects on survival of, effects of age and dose on x, 23:928
radiation effects on survival of, effects of age at exposure on x, 22:49629
radiation effects on survival of, effects of age on protective effects of DNA against x, 23:12191(T) (AEC-tr-6646/4A, pp 97-102)
radiation effects on survival of, effects of beam orientation on fast neutron, 22:40822(T) (JPRS-44070, pp 1-9)
radiation effects on survival of, effects of bone marrow transplants on lethal x, 22:49491 (UCSF-10-P-2-40)
radiation effects on survival of, effects of chronic acceleration on, whole-body γ, 21:28604
radiation effects on survival of, effects of daily dose fluctuation on γ, 23:923
radiation effects on survival of, effects of dose on protective effects of DNA against γ and x, 23:12135(T) (AEC-tr-6646/4A, pp 107-10)
radiation effects on survival of, effects of dose on chronic γ, 23:6567(T) (JPRS-44299, pp 77-85)
radiation effects on survival of, effects of dose on whole-body β, 24:7996
radiation effects on survival of, effects of dose and γ, 23:18114
radiation effects on survival of, effects of erythropoietin and shielding on, 23:31948
radiation effects on survival of, effects of food preservation preparations on whole-body x, 24:36771
radiation effects on survival of, effects of inhalation of hyperbaric oxygen, dose, and dose rate on γ, 24:21304
radiation effects on survival of, effects of pantothenic acid deficiency on, 23:41436
radiation effects on survival of, effects of pre-irradiation on whole-body x, 24:14589
radiation effects on survival of, effects of prior lactation or intestinal resection on intestinal x, 23:43880
radiation effects on survival of, effects of secretion of adrenal cortical hormones on x, 22:45709
radiation effects on survival of, effects of shock on x, 22:40846
radiation effects on survival of, effects of spatial distribution of tissue dose on γ and x, 22:51951
radiation effects on survival of, effects of starvation diet on, 23:14254
radiation effects on survival of, effects of time of day on, 22:38449
radiation effects on survival of, following exposure of kidneys with subsequent nephrectomy, protective effects of prednisolone on x, 25:16218
radiation effects on survival of, following inhalation of plutonium-238 and plutonium-239, α, 22:10825 (BNWL-480, pp 55-83)
radiation effects on survival of, following inhalation of plutonium-238 or -239-labeled plutonium oxide particles, α and γ, 23:6340 (BNWL-714, pp 4.1-24)
radiation effects on survival of, following inoculation with Yoshida sarcoma, 21:26640
radiation effects on survival of, in comparison to predicted data, 25:16335
radiation effects on survival of, in natural habitat, effects of dose on cesium-137 β and γ, 23:18088 (CONF-670503-, pp 39-45)
radiation effects on survival of, in relation to mercapto group content of bone marrow, x, 22:19393
radiation effects on survival of, internal β, 22:51377
radiation effects on survival of, long-term protective effects of N- and S-containing polymers against x, 25:42517
radiation effects on survival of, microwave, 23:38860
radiation effects on survival of, protective effects of amygdalin and cystamine against γ, 22:51946
radiation effects on survival of, protective effects of casein against x, 21:45687
radiation effects on survival of, protective effects of degraded, denatured, and renatured DNA against γ, 23:12134(T) (AEC-tr-6646/4A, pp 103-6)
radiation effects on survival of, protective effects of human platelet extracts and Trasylol treatments against x, 23:856
radiation effects on survival of, protective effects of cysteamine against x, 23:50619
radiation effects on survival of, protective effects of hypothermia in combination with hypoxia against x, 25:46887
radiation effects on survival of, protective effects of intravenous pyridoxal-5-phosphate against whole-body x, 22:31137
radiation effects on survival of, protective effects of cysteine, folcysteine, and folic acid against x, 23:50614
radiation effects on survival of, protective effects of parabiosis against x, 23:45787
radiation effects on survival of, protective effects of serotonin against x, 22:31261
radiation effects on survival of, protective effects of hypothermia against γ, 24:869
radiation effects on survival of, protective effects of parabiosis against, 23:29564 (AD-678530)
radiation effects on survival of, protective effects of dopamine against whole-body x, 24:25387(R) (YALE-3960-2)
radiation effects on survival of, protective effects of thymus extract against, 22:33844
radiation effects on survival of, protective effects of AET, cystamine, mexamine, and serotonin against γ, 25:4581
radiation effects on survival of, protective effects of Shir-Khecht, against γ, 22:49376 (CEA-R-3412)
radiation effects on survival of, protective effects of p-aminoacetophenones against x, 23:29575
radiation effects on survival of, protective effects of anaphylaxis-inducing agents against lethal whole-body x, 21:36645
radiation effects on survival of, protective effects of neomycin against whole-body x, 21:45702
radiation effects on survival of, protective effects of dopa and dopamine against x, 23:50635
radiation effects on survival of, protective effects of selenium compounds against ionizing, 25:4545
radiation effects on survival of, protective effects of repeated injections of adenosine triphosphate against fractionated-dose x, 25:39880(T) (JPRS-53218, pp 20-5)
radiation effects on survival of, protective effects of intestinal resection against x, 23:24700
radiation effects on survival of, protective effects of papain against γ, 23:41344 (AD-688374)
radiation effects on survival of, protective effects of oxymetholone and testosterone against x, 24:4643
radiation effects on survival of, protective effects of ellagic acid against whole-body, 25:24221
radiation effects on survival of, protective effects of acetylcholine, adrenaline, histamine, 5-methoxytryptamine, and serotonin against γ, 25:11102
radiation effects on survival of, protective effects of caffeine against, 22:25914
radiation effects on survival of, protective effects of cyclophosphamide against β and x, 25:42518
radiation effects on survival of, protective effects of drugs against ionizing, 23:50638
radiation effects on survival of, protective effects of methylene blue against whole-body γ or x, 25:42515
radiation effects on survival of, protective effects of pentetrazole against, 22:25914
radiation effects on survival of, relation of blood leukocyte count, blood and sugar content, and response to injected epinephrine to x, 24:17146
radiation effects on survival of, relation of, to activity of adrenal cortex, x, 22:36398
radiation effects on survival of, relation to excretion of 5-hydroxyindoleacetic acid, 21:30896
radiation effects on survival of, use of immune reactions of Paramecium cultures for prognosis of x, 23:20141
radiation effects on survival of, use of oxidative phosphorylation in liver mitochondria as index to effects of post-exposure time on effectiveness of bone marrow transplants for treatment of, 25:21747
radiation effects on survival of, whole-body γ, 22:49534
radiation effects on survival time and weight of, following exposure of embryos, effects of sex on x, 24:7997
radiation effects on survival time of, following exposure of exteriorized segments of ileum, x, 24:39567
radiation effects on susceptibility of, to bacterial endocarditis, combined effects of epinephrine in oil on x, 24:41980
radiation effects on susceptibility of, to bacterial endocarditis, protective effects of dimethyl sulfoxide against x, 24:34398

radiation effects on susceptibility of, to tularemia infection, x, 24:4683
radiation effects on synthesis and utilization of ATP in cell nuclei of thymus gland in, whole-body x, 22:30951
radiation effects on synthesis of ACTH in, x, 22:23458
radiation effects on synthesis of bile acids in livers of, inhibitory, 25:13370
radiation effects on synthesis of cholesterol in adrenal glands and liver of, x, 22:33766
radiation effects on synthesis of cortisol in, x, 22:25998
radiation effects on synthesis of DNA and histones in liver, spleen, and thymus of, x, 23:7938
radiation effects on synthesis of DNA and nucleoproteins by hepatoma cells of, γ, 23:45658
radiation effects on synthesis of DNA in liver of, following partial hepatectomy, x, 24:16990
radiation effects on synthesis of DNA in regenerating cells in injured spinal cord of, x, 22:40926
radiation effects on synthesis of DNA in regenerating liver of, whole-body x, 25:44771
radiation effects on synthesis of DNA, nucleoprotein, and RNA in germ cell nuclei of male, x, 22:51418
radiation effects on synthesis of enzymes in regenerating liver of, γ, 22:16986
radiation effects on synthesis of glycerolphosphate dehydrogenase in brain of, x, 22:33718 (UCLA-12-640, pp 61-80)
radiation effects on synthesis of glycogen and lipids in liver of, carbon-14 tracer study of x, 25:46736
radiation effects on synthesis of histones in liver and spleen of, 25:29662
radiation effects on synthesis of histones in liver and spleen of, x, 25:44768
radiation effects on synthesis of lipids in lung tissues of, x, 23:6339 (BNWL-714, pp 3.1-38)
radiation effects on synthesis of melatonin in, effects of light intensity on x, 24:39548 (COO-1602-18)
radiation effects on synthesis of microsomal enzymes in liver of, in comparison with effects of alkylating agents, x, 24:34081
radiation effects on synthesis of mRNA in liver and spleen of, at 2 to 24 hr following acute exposure, 24:27534
radiation effects on synthesis of proteins in liver of, effects of whole-body exposure on x, 22:19258
radiation effects on synthesis of proteins in nuclei of liver cells from, in vitro, whole-body γ, 22:43431
radiation effects on synthesis of rabies virus in, effects of dose on whole-body γ, 21:24678
radiation effects on synthesis of RNA by cells of ascites hepatoma in, x, 22:30957
radiation effects on synthesis of serum albumins in, sulfur-35 tracer study of whole-body, 25:46711
radiation effects on synthesis of tryptophan oxygenase in liver of, effects of age on x, 24:9757
radiation effects on synthesis of tryptophan oxygenase in liver of, γ, 21:34786
radiation effects on synthesis of tryptophan pyrrolase in, following administration of hydrocortisone or tryptophan, x, 22:36210
radiation effects on synthesis of tryptophan pyrrolase in, x, 23:9831 (NP-17514, pp 5-24)
radiation effects on system of enzymes for metabolism of hexobarbital in liver of, mechanism of x, 21:36478(R) (AD-637574)
radiation effects on taste and taste buds of acute x, 23:29735(R) (NYO-3359-7)
radiation effects on taste threshold in, low dose x, 25:55322
radiation effects on taurine content in urine of, γ, 22:36181
radiation effects on taurine release by lymph tissues, mucosa of intestine, and spleen of, γ, 22:36181
radiation effects on tensile strength of skin wounds in, γ, 24:21301
radiation effects on testes in, effects of age and dose rate on x, 23:38789
radiation effects on testes of, comparison of hard and soft x, 24:12270
radiation effects on testes of, effects of increased endogenous gonadotropin on, 21:36694
radiation effects on testes of, effects of prenatal exposure on γ, 24:12296
radiation effects on testosterone synthesis by interstitial cells of testes of, x, 24:31849
radiation effects on the acquisition of a conditioned avoidance response in, x, 21:24586
radiation effects on the erythropoietin level in, x, 21:32744
radiation effects on the transport of proteins from microsomes to mitochondria in, x, 23:43695
radiation effects on thermal stability of DNA in liver of, ionizing, 23:29351
radiation effects on thorax of, measurement of respiratory tract clearance following x, 23:16412
radiation effects on Thorotrast distribution in brain tissues of, electron microscopy of laser, 21:26649
radiation effects on thrombocytes in, following prolonged ingestion of manganese-54, γ, 24:14583
radiation effects on thymidine incorporation into DNA of cultured thymus cells of, factors affecting x, 25:55127
radiation effects on thymidine monophosphate kinase activity in, after thymidine treatment in vivo, x, 21:22704
radiation effects on thymocytes from, whole-body x, 21:32793
radiation effects on thymocytes of, effects of cycloheximide on accumulation of fructose-1,6-diphosphate following x, 24:36801
radiation effects on thymocytes of, effects of post-irradiation phosphate treatment on γ, 21:20063
radiation effects on thymocytes of, in vitro x, 21:17974
radiation effects on thymus cells of, in vitro and in vivo study of mechanisms of acute lethal x, 22:49618
radiation effects on thymus DNA of, x, 21:12783
radiation effects on thymus in, pathological x, 21:39491
radiation effects on thymus lymphocytes in, repopulation kinetics following sublethal whole-body x, 24:12284
radiation effects on thymus of, effects of age, castration of sex, endocrine status, and sex on x, 22:31223
radiation effects on thymus of, effects of shielding on x, 22:40848
radiation effects on thymus of, mechanisms for regeneration of whole-body x, 23:933(R) (NIRS-6)
radiation effects on thymus of, output of lymphocytes from thoracic duct following, 24:4680
radiation effects on thyroid function and sorption of iodine-131 in, effects of MEA on x, 21:4847
radiation effects on thyroid gland of, autoradiographic and histochemical study of iodine-125 γ, 24:44608
radiation effects on thyroid gland of, effects of dose on response to goitrogenic stimulus following x, 22:33969
radiation effects on thyroid gland of, following intraperitoneal injections of 0.05 uCi strontium-90, latent β, 24:51053
radiation effects on thyroid gland of, methods for determining effects of dose fractionation and local exposure on x, 24:44591
radiation effects on thyroid gland of, repeated low-dose x, 25:52212
radiation effects on thyroid glands of, effects of, on incidence of gonadotropic adenomas of pituitary, β and x, 22:10871
radiation effects on thyroid of, effects of time interval on goitrogenic response following x, 24:34678
radiation effects on thyroid of, iodine-131 β and γ, 22:10675 (BNWL-480, pp 21-54)
radiation effects on thyroid of, x, 23:33832 (PHS-PUBL.-1809, pp 45-58)
radiation effects on tibia of, comparison of effects of dose on γ and x, 25:58102
radiation effects on tissue healing in, γ and x, 21:8970
radiation effects on tissue lipids in, continuous γ, 25:24409
radiation effects on tissue respiration in, whole-body x, 21:8852
radiation effects on tissues of, after feeding chloroquine, uv, 21:16400
radiation effects on tissues of, argon and ruby laser, 23:38856
radiation effects on tissues of, for whole-body neutron activation autoradiography, 25:13590
radiation effects on tissues of, neptunium-237 α and γ, 23:26900
radiation effects on tolerance of, to pentobarbital, effects of amphetamine and reserpine on x, 24:36808 (AD-702721)
radiation effects on toxicity of alloxan to, γ, 22:36319
radiation effects on toxicity of fruit juices for, γ, 22:40978(R) (NP-17182)
radiation effects on transfer of galactose, glucose, and sorbose in intestines of, γ and x, 22:43216
radiation effects on transfer of iodides by cells of intestines in, effects of starvation on whole-body x, 21:41480
radiation effects on transfer of Rous sarcoma viruses from cells of virogenic tumors from, to cells of chick embryo fibroblasts in mixed cultures, x, 22:33991
radiation effects on transferase activity in central nervous system and muscles of, x, 21:1810
radiation effects on transformation of lymphocytes from, in vitro effects of phytohemagglutinin and serum from irradiated rats on 200 and 1,000 R x, 24:27657
radiation effects on transitional epithelium of, in comparison with effects of parasitic infection, regeneration of x, 24:34667
radiation effects on transplant efficiency of strontium-90-radioinduced chloroleukemia cells in, effects of age and strain and x, 23:31665 (LF-39, pp 217-21)
radiation effects on transplantability of sarcomas in bones of, x, 21:45807
radiation effects on transplanted neoplasms in, synergistic action of weak electric current on x, 21:4839
radiation effects on transplanted tumor cells in, 24:34170
radiation effects on transplants of Yoshida sarcoma in, combined effects of carcinostatic agents on, 21:36654
radiation effects on transport of carbon-14-labeled p-aminobenzoic in intestines of, whole-body, 25:24411
radiation effects on transport of glucose and water in intestine of, protective effects of AET against x, 22:45647
radiation effects on transport of iodine-131-labeled iodide and thyroxine in placenta of, γ, 22:47495
radiation effects on transport of proteins from microsomes to mitochondria in liver of, 23:17957
radiation effects on transport of sodium and water in intestines of, x, 22:10824 (BNWL-480, pp 1-19)
radiation effects on treadmill performance of aging, fast neutron and x, 21:36709
radiation effects on tritium-labeled thymidine uptake by chromosomes of bone marrow of, effects of AET and γ, 24:21216
radiation effects on tryptophan metabolism in isolated perfused liver of, x, 23:38483
radiation effects on tryptophan oxygenase activity in liver of, whole-body, 24:50757
radiation effects on tryptophan oxygenase in liver of, effects of dose rate on x, 23:38482
radiation effects on tuberculin skin reactions in, x, 23:7957
radiation effects on tumor incidence in, following administration of strontium-90, combined effects of carcinogens and β, 25:44916
radiation effects on tumors in, combined effects of hyperthermia on x, 24:810
radiation effects on tumors of, effects of oxygen on, 22:40749
radiation effects on turpentine-induced pleurisy in, effects of penicillin administration on, 21:4852
radiation effects on ultrastructure of adenohypophysis of, acute γ, 22:49271
radiation effects on ultrastructure of adrenal cortical cells of, electron microscopy of x, 22:45395
radiation effects on ultrastructure of bone marrow cells of, whole-body x, 24:36829
radiation effects on ultrastructure of cells of, electron microscope study of γ and x, 23:33647
radiation effects on ultrastructure of collagen fibers in tails of, γ, 23:2776
radiation effects on ultrastructure of hair in, x, 23:41455
radiation effects on ultrastructure of hepatomas in, 23:33832 (PHS-PUBL.-1809, pp 45-58)
radiation effects on ultrastructure of liver cells of, effects of age on whole-body x, 22:14963
radiation effects on ultrastructure of liver of, electron microscopic study of electromagnetic, 24:34122
radiation effects on ultrastructure of mitochondria of livers of, electromagnetic wave, 24:36804
radiation effects on ultrastructure of mitochondria of liver of, 23:29370
radiation effects on ultrastructure of myocardium of, cobalt-60 γ, 23:33635
radiation effects on ultrastructure of myocardium of, whole-body x, 24:34084
radiation effects on ultrastructure of nerve cells in solar plexus of, effects of dose on x, 22:10723
radiation effects on ultrastructure of neurosecretory cells in, effects of chlorpromazine and phenamine on lethal, whole-body, ionizing, 23:26880
radiation effects on ultrastructure of phagocytes 6 hr to 7 days following uptake from peritoneum of, plutonium-239 and thorium-232 α and γ, 23:45873
radiation effects on uptake of carbon-14-labeled glycine by proteins in tissues of, x, 22:28675
radiation effects on uptake of carbon-14-labeled leucine by proteins in partially-hepatectomized and sham-operated, x, 21:12969
radiation effects on uptake of iodine-125-labeled antigen in, x, 21:30899
radiation effects on uptake of iodine-131-labeled IUDR in cotton, γ, 23:22244
radiation effects on uptake of labeled triiodothyronine by erythrocytes of, x, 22:2548
radiation effects on uptake of orotic acid by RNA in cytoplasm and nuclei of liver cells in, tracer study of x, 24:14404
radiation effects on uptake of strontium-85 by bones in, whole-body γ, 25:11263
radiation effects on uptake of sulfur-35-labeled methionine by erythrocytes of, combined effects of mustard gas on acute x, 23:9848
radiation effects on uptake of trace elements by isolated mitochondria from spleen of, whole-body x, 22:40853
radiation effects on uptake of tritium-labeled thymidine by DNA of mitochondria and nuclei in cells of regenerating liver of, x, 21:41336
radiation effects on uptake of tritium-labeled thymidine by mast cells of, x, 22:14941
radiation effects on uric acid content of blood of, gamma, 21:412
radiation effects on uridine diphosphate glucose system of glycogen synthesis in bone marrow of, x, 22:33728
radiation effects on uridine incorporation into RNA of nerve tissue of, carbon-14 tracer study of x, 25:4457(R) (UCB-34-P-82-9)
radiation effects on urinary excretion of β-aminoisobutyric acid, creatine, and taurine, use of, for indication of injury, 22:49492
radiation effects on urinary excretion of deoxycytidine by rats, effects of age and splenectomy on x, 21:28347 (USNRDL-TR-67-30)
radiation effects on urinary excretion of deoxyuridine and thymidine by, effects of adrenalectomy on γ, 22:28655
radiation effects on urinary excretion of glucuronides, whole-body x, 21:24299
radiation effects on urinary excretion of phosphates and ammonia nitrogen and adenine nucleotide levels in blood and liver of, x, 21:24356
radiation effects on urinary excretion of pseudouridine in, x, 21:22340
radiation effects on urinary phosphates of, gamma, 21:6537
radiation effects on utilization of sulfur-35-labeled cystine in liver of, acute x, 23:797
radiation effects on uv fluorescence of cells from blood and bone marrow of, x, 22:33931
radiation effects on uv fluorescence of lymphosarcoma cells of, 22:36350
radiation effects on uv-fluorescence of ascites cells of, x, 22:33772
radiation effects on vascular permeability in skin of, acute uv, 22:51996
radiation effects on vascular permeability of, iodine-131 tracer study of acute x, 22:49621
radiation effects on vascular permeability of, whole-body x, 21:24366
radiation effects on vascular system of neonatal, in relation to mortality, x, 24:23322 (CONF-690501-, pp 341-56)
radiation effects on vascularization in neoplasms of, effects of dose fractionation on x, 21:18126
radiation effects on vascularization of wounds in, effects of healing stage on, 24:34548
radiation effects on vasomotor reactions in, x, 21:18157
radiation effects on vertebral growth in tails of, effects of oxygen abundance on fast neutron, 24:4685
radiation effects on viability of skin of, proton, 21:8906 (AD-633203)
radiation effects on virulence of foot and mouth disease in, whole-body γ, 24:39591 (PRNC-135, pp 215-23)
radiation effects on visual responses in, effects of prenatal exposure on x, 22:19421
radiation effects on vitamin B_{12} content of blood and urine of, 3 to 48 hours after exposure to cobalt-60, γ, 23:43877
radiation effects on vitamin D synthesis in skin of, role of uv, 22:51328

radiation effects on volume of lymphocytes in, following inhalation of europium isotopes β and γ or x, 23:24737
radiation effects on Walker sarcomas of, 9-MeV electron, 22:51901
radiation effects on water absorption by intestines of, x, 21:14537 (BNWL-280, pp 2-4)
radiation effects on water content and distribution in organs of, effects of lethal and sublethal x, 25:13348
radiation effects on water content of brain, intestine, and kidneys of, iodine-131 β and γ, 22:45435
radiation effects on weight of brain of, effects of oxygen on x, 24:34666
radiation effects on weight of brains of, x, 25:26946
radiation effects on weight of heart and liver of neonatal, following exposure in utero, tritium β, 25:26925
radiation effects on weight of salivary glands in, protective effects of cystamine against γ, 22:33925
radiation effects on weight of submandibular glands in, effects of thyroparathyroidectomy on whole-body γ, 25:24422
radiation effects on whole lens in, effects of dose fractionation on x, 21:28588(R) (COO-1024-23)
radiation effects on wholesomeness of banana powder for, γ, 23:18164 (CONF-681006-, pp 149-53)
radiation effects on wholesomeness of strawberries for, 23:18165 (CONF-681006-, pp 155-8)
radiation effects on wound healing in, protective effects of bone marrow against x, 22:25851
radiation effects on wound healing in, with or without bone marrow transplants, x, 25:32537
radiation effects on wound response in lens epithelium of, x, 25:27000
radiation effects on yield of DNA extracted from thymus gland of, whole-body x, 21:17997
radiation effects on Yoshida sarcoma cells in, combined effects of BUdR and cobalt-60 γ, 24:34687
radiation effects on Yoshida sarcoma in, sensitizing effects of ametohepazon on, 23:16336
radiation effects on Yoshida sarcomas in, effects of demethylchlortetracycline on fast electrons, 24:44529
radiation effects on zinc content of testes of, chronic and lethal x, 23:24726
radiation effects on, assay of serum factors affecting recovery from, 22:15052
radiation effects on, assessment of protective effects of ACTH and serotonin against x, 22:33879
radiation effects on, autoradiographic study of thymic stem cells that promote recovery following cobalt-60 γ, 24:6119
radiation effects on, biochemical indicators of, 23:915
radiation effects on, carcinogenic, comparison for fission neutrons, γ, and x, 25:6770 (CONF-691106-, pp 207-29)
radiation effects on, cellular nucleoproteid responses in the adrenal glands following γ, 21:22767
radiation effects on, chronic calcium-45 β, 23:22178(T) (AEC-tr-6944, pp 340-4)
radiation effects on, chronic sulfur-35 β, 23:22374(T) (AEC-tr-6944, pp 345-9)
radiation effects on, combined cerium-144 β and γ, plutonium-239 α and γ, and strontium-90 β, 23:22382(T) (AEC-tr-6944, pp 441-52)
radiation effects on, combined effect of Endoxan and spleen cell injections on, 22:33872
radiation effects on, combined effects of 5-fluorouracil on γ, 21:20408
radiation effects on, combined effects of carbon monoxide and γ, 25:35233
radiation effects on, combined effects of cutaneous wounds on whole-body γ, 23:38770
radiation effects on, combined effects of diet and bacterial flora in feces on whole-body x, 22:557
radiation effects on, combined effects of drum trauma and partial-body shielding on pathological x, 22:25978
radiation effects on, combined effects of internal cerium-144 β and γ and strontium-90 β with external x-ray exposure on recovery from, 24:23374
radiation effects on, combined effects of iodine-131 on local neoplastic x, 22:43452
radiation effects on, combined effects of skin wounds on, 24:25578
radiation effects on, combined effects of thyroid shielding and thyroxine administration on lethal whole-body x, 23:38618
radiation effects on, combined effects of timing of wounds on whole-body γ, 22:33859
radiation effects on, combined effects of transverse acceleration on γ and x, 23:24729
radiation effects on, combined neoplastic cerium-144 β and γ, plutonium-239 α and γ, and strontium-90 β, 23:22383(T) (AEC-tr-6944, pp 453-62)
radiation effects on, combined protective effects of anoxia and hypothermia against x, 21:43390
radiation effects on, combined protective effects of chemicals and hypothermia against x, 23:18076
radiation effects on, combined with effects of acceleration on life span, body weight, and blood picture of, γ, 21:16442(T) (JPRS-38272, pp 282)
radiation effects on, comparison of cerium-144 β and γ and strontium-90 β, 23:22379(T) (AEC-tr-6944, pp 400-9)
radiation effects on, comparison of RBE for tritium β and continuous low-dose γ, 25:593
radiation effects on, comparison with endoxan effects, immunosuppressive x, 23:47982
radiation effects on, development of myelofibrosis following bone marrow transplants and x, 24:34161
radiation effects on, during development of nervous system, x, 21:8955
radiation effects on, during estrous, effects of dose and stage of cycle at exposure on x, 21:41503
radiation effects on, effects of abundance and route of administration on protective effects of mexamine against, 24:27614
radiation effects on, effects of age and sex on strontium-90 β, 23:29318
radiation effects on, effects of age at exposure on fast neutron, 22:40890
radiation effects on, effects of age on hard and soft x, 21:36700
radiation effects on, effects of age on latent fast neutron, 22:33896 (AD-662222)
radiation effects on, effects of antispasmodic drugs on protective effects of cystamine against, 24:7936
radiation effects on, effects of bone marrow removal on survival rate following, 24:32178(T) (BNL-tr-302)
radiation effects on, effects of circadian clock and steroid drugs on x, 21:36628
radiation effects on, effects of concentration on sensitizing effects of leucodelphinidin on, 24:34410
radiation effects on, effects of continuous or fractionated dose on x, 22:23656
radiation effects on, effects of cysteine and methionine on blood picture during healing of wounds made after cobalt-60 γ, 23:35781
radiation effects on, effects of dimethyl sulfoxide on x, 21:24491
radiation effects on, effects of dose and injection path on polonium-210 α and γ, 22:49502
radiation effects on, effects of dose fractionation on RBE and recovery from, comparison of cobalt-60 γ and 3 GeV proton, 23:45919
radiation effects on, effects of dose on β and γ, 23:18115
radiation effects on, effects of dose rate on protective effects of cysteamine hydrotartrate against γ, 24:27612
radiation effects on, effects of epsilon aminocaproic acid on, 22:43350
radiation effects on, effects of ether anesthesia on lethal, 22:8583
radiation effects on, effects of methemoglobin on combined protective effects of PAPP, cystamine, and cystaphos against, 24:50956
radiation effects on, effects of physical fitness on lethality of x, 21:16443(T) (JPRS-38272, pp 158-9)
radiation effects on, effects of postirradiation bleeding on erythropoietic regeneration following x, 23:20365
radiation effects on, effects of prednisone on bone marrow cell regeneration following whole-body x, 24:4646
radiation effects on, effects of Pseudomonas aeruginosa infections on γ, 21:11047
radiation effects on, effects of secondary radiation on RBE of high-energy proton, 23:903 (CEA-R-3447)
radiation effects on, effects of steroids on survival time following whole-body x, 24:749
radiation effects on, effects of uneven exposure on whole-body x, 21:36729
radiation effects on, effects of, on immune reactions to sheep erythrocytes and tetanus toxoid, 23:17938
radiation effects on, effects of, on liver DNA, effects of deoxyribonuclease on x, 23:20136
radiation effects on, effects of, on period of rejection of skin transplant in relation to regeneration of lymphoid tissue, 24:17136
radiation effects on, effects of, on sensitivity to electrical irritation, latent, 23:16388
radiation effects on, effects of, on synthesis of NAD and catabolism of nicotinic acid in perfused liver, x, 23:45653
radiation effects on, effects of, on toxicity of morphine, 22:21615
radiation effects on, etiological effects of bone marrow transplantation on secondary, 24:625
radiation effects on, following chronic exposure to europium-152 and europium-154, β and γ, 24:25369(R) (COO-1630-22)
radiation effects on, following chronic inhalation of uranium dioxide dusts, 24:48373
radiation effects on, following exposure to color television set, ionizing, 23:20433
radiation effects on, following ingestion of radiotoxins and strontium-90 in milk from contaminated cows, 25:44761
radiation effects on, following inhalation and injection of iodine-131, β and γ, 23:31603 (LF-39, pp 76-83)
radiation effects on, following inhalation of cerium-144, β and γ, 23:31911 (LF-39, pp 84-91)
radiation effects on, following injection of curium-244 chloride, effects of dose on α and γ, 25:44905
radiation effects on, following injection of plutonium-238, effects of physicochemical state on pathological α and γ, 23:6341 (BNWL-714, pp 5.1-26)
radiation effects on, following intraperitoneal injection of cesium-137 and strontium-90, lethal β, 24:32185
radiation effects on, following partial hepatectomy, combined effects of actinomycin D on x, 24:804
radiation effects on, following plutonium-239 inhalation, protective effects of DTPA against latent α and γ, 23:50621
radiation effects on, fractionation and protraction factors in late γ, x, and neutron, 22:49468 (CONF-680410-, pp 2.1-27)
radiation effects on, genetic x, 22:40652
radiation effects on, given injections of tritium oxide, 21:8985
radiation effects on, γ, 21:41476 (ORNL-P-3212)
radiation effects on, histamine content of tissues after administration of protective substances following whole body x, 25:21740
radiation effects on, in comparison with 3-methylcholanthrene and splenectomy, whole-body leukemogenic x, 25:44914
radiation effects on, in relation to hazards in space, RBE for fast neutron, 24:848
radiation effects on, in relation to hematological criteria, 23:16382
radiation effects on, in relation to human health hazards from radio and television transmission, electromagnetic wave, 23:48230
radiation effects on, injury and recovery patterns of intestinal epithelium following x, 24:12293
radiation effects on, laser, 22:38421 (CONF-660573-, pp 35-48)
radiation effects on, life span of, effects of whole-body single or fractionated doses of x, 21:22764
radiation effects on, mathematical model for estimation of cumulative γ, 22:12918
radiation effects on, mechanism of protective effects of ATP against lethal, 25:39881
radiation effects on, mechanism of protective effects of dimethyl sulfoxide against x, 25:42524
radiation effects on, methods for stimulation of erythropoiesis following, 24:840
radiation effects on, pathological iodine-131 β and γ, 22:45693
radiation effects on, pathological tritium β, 23:22365(T) (AEC-tr-6944, pp 269-73)
radiation effects on, phosphorus-32 uptake in incisor teeth of, x, 21:26332(R) (ORO-3554-1)
radiation effects on, protective effects of a mixture of AET, cysteamine, and serotonin against x, 24:9879
radiation effects on, protective effects of AET against, 24:12127
radiation effects on, protective effects of AET and bee venom against x, 23:851(T) (JPRS-43628)
radiation effects on, protective effects of AET or serotonin against sublethal fractionated dose, 25:26807
radiation effects on, protective effects of AET, cystamine, and cysteamine against, in relation to content of endogenous serotonin, 23:26822
radiation effects on, protective effects of age and AET against, 23:29587
radiation effects on, protective effects of Alupent against x, 21:32721
radiation effects on, protective effects of amino acid and vitamin combination against chronic cesium-137 γ, 23:50637
radiation effects on, protective effects of aminotrichloroethanol against whole-body x, 23:50628
radiation effects on, protective effects of antioxidants from petroleum products against x, 24:39518(T) (JPRS-50859)
radiation effects on, protective effects of ATP against γ and x, 25:39882
radiation effects on, protective effects of autotransplants of bone marrow against, 22:25909
radiation effects on, protective effects of Bacillus mesentericus vaccine against, 21:22468
radiation effects on, protective effects of barium sulfate diet against γ, 22:51839
radiation effects on, protective effects of bone marrow transplants and parabiosis against x, 21:30866
radiation effects on, protective effects of chemicals and drugs against, 22:25863
radiation effects on, protective effects of combined bee's milk and placental preparations against x, 25:46891
radiation effects on, protective effects of cystamine and cysteamine on x, 21:26491
radiation effects on, protective effects of cysteamine against x, 21:22626
radiation effects on, protective effects of cysteamine and related substances against x, 22:4656
radiation effects on, protective effects of diet high in unsaturated fats against x, 21:12899
radiation effects on, protective effects of dietary calcium and fluorine against γ, 22:51993
radiation effects on, protective effects of dietary potassium and sodium against whole-body γ, 25:39883
radiation effects on, protective effects of dietary proteins on chronic cesium-137, 25:32455
radiation effects on, protective effects of DNA against cobalt-60 γ, 23:14231
radiation effects on, protective effects of DNA and RNA against γ, 22:6849
radiation effects on, protective effects of drugs against β, 21:45643
radiation effects on, protective effects of DTPA against plutonium-239 α and γ, 23:8039
radiation effects on, protective effects of elevated calcium and fluorine content of diet against combined γ and strontium-90 β, 23:41347
radiation effects on, protective effects of γ-hydroxybutyric acid against, 24:12108
radiation effects on, protective effects of inert diet against whole-body γ, 22:49412
radiation effects on, protective effects of injected heterogeneous DNA against x, 21:45732
radiation effects on, protective effects of injections of heterologous DNA against γ, 22:36328
radiation effects on, protective effects of irradian against x, 23:2880
radiation effects on, protective effects of methandrostenolone against x, 23:29571(T) (JPRS-47370)
radiation effects on, protective effects of mixtures of cystamine and pyridoxine against γ, 22:4658
radiation effects on, protective effects of organic selenium compounds against cobalt-60 γ, 25:16233
radiation effects on, protective effects of pantothenic acid against, 21:26502
radiation effects on, protective effects of phytohemagglutinin against, 23:48083
radiation effects on, protective effects of propylthiouracil against lethal whole-body x, 23:38618
radiation effects on, protective effects of pyridoxine against x, 22:15041
radiation effects on, protective effects of quaternary ammonium salts against, 22:25876
radiation effects on, protective effects of shielding of bone marrow against, 22:49368
radiation effects on, protective effects of stimulation of function of reticulo-endothelial system on x, 21:43483
radiation effects on, protective effects of sulfur-containing compounds against whole-body x, 22:4657
radiation effects on, protective effects of thiamine tetrahydrofurfuryl disulfide against γ, 24:744
radiation effects on, protective effects of vasotrophic compounds and vitamins against x, 22:49436

radiation effects on, protective effects of vitamin B_{12} against x, 22:47549
radiation effects on, RBE for γ and neutron, 24:23362
radiation effects on, RBE of 120 MeV proton, 22:23668
radiation effects on, RBE of 17.5 MeV electron and x, 22:33943
radiation effects on, RBE of external and internal phosphorus-32 β, 22:23651
radiation effects on, RBE of fast neutron and γ, 23:48210
radiation effects on, RBE of γ, proton, and x, 22:23652
radiation effects on, RBE of high energy proton, 22:23670
radiation effects on, relation of bone marrow syndrome to lethal γ, 23:10043 (BNL-12950)
radiation effects on, relation of complement fixation by Paramecium to prognosis of x, 23:20141
radiation effects on, relation of gastrointestinal syndrome to lethal γ and x, 23:10044 (BNL-12951)
radiation effects on, role of alarm phase of nonspecific adaptation response in early glycemic response following γ, 25:11281
radiation effects on, thorium-232 α, 23:22376(T) (AEC-tr-6944, pp 359-74)
radiation effects on, three generations of strontium-90 β, 23:22391(T) (AEC-tr-6944, pp 538-47)
radiation effects on, transplantation of lymphocytes and thymocytes following whole-body, 24:2792
radiation effects on, tritium β lethal and pathological, 23:22362(T) (AEC-tr-6944, pp 235-41)
radiation effects on, tritium β pathological, 23:22363(T) (AEC-tr-6944, pp 242-50)
radiation effects on, use of electron spin resonance for study of, x, 21:16500
radiation effects on, use of serotonin in protection against, 21:26507
radiation effects on, use of sodium/potassium ratios in urine to determine x, 25:27029
radiation effects on, use of, as standard for determining RBE for 3 GeV proton effects, cobalt-60 γ, 23:45919
radiation injuries due to injected Thorotrast in, pathology of, 21:24579
radiation injuries in, effects of hot-spring treatment on recovery from cesium-137 γ and neutron, 23:16362
radiation injuries in, effects of space distribution of absorbed energy on development of, 25:24360
radiation injuries in, protective effects of AET and cystamine against, 21:4820
radiation injuries in, protective effects of monoethanolamine on, 21:8852
radiation injuries in, relation between dose absorbed by various tissues and x, 25:52187
radiation injuries in, use of antibiotics for therapy of low dose γ, 25:21860
radiation injuries of, effects of nivolin on, 21:1784
radiation injuries of, morphology of blood cells in partially-shielded parabiotic, 21:8999
radiation injuries of, protective effects of cystamine and cystine against thermal and x, 21:10981
radiation injuries of, protective effects of injected homologous bone marrow against lethal, 21:8870
radiation injuries of, protective effects of mixtures of AET, cysteamine, glutathione, and serotonin on lethal x, 21:10930
radiation injuries of, protective effects of vitamin B_{12} and folic acid against, 21:14693
radiation injuries of, quantitative estimation of recovery from local or whole-body γ, 21:36706
radiation injuries to cells of regenerating liver and thymus of, effects of dose on ionizing, 22:45447
radiation injuries to lens of, effects of partial shielding on, x, 21:12853
radiation injuries to placenta of, during oxygen starvation, repair of, 22:51953
radiation injuries to, combined effects of burns and surgical injuries on, 23:20265 (CONF-680507-, pp 124-42)
radiation injuries to, effects of antibiotics on wound healing patterns following combined surgical and x, 25:26932
radiation injuries to, effects of autotransplants of shielded bone marrow on, 23:2961
radiation injuries to, effects of genetic strain, hematopoietic cell transplants, and tumor presence on x, 24:2727
radiation injuries to, following ultraviolet irradiation of the peritoneum and spleen, 21:11021
radiation injuries to, method for measuring effectiveness of radioprotective drugs against cobalt-60 γ, 24:34395
radiation injuries to, protective effects of ACTH against, 24:12117
radiation injury to erythropoietic system in, role of erythropoietin in, 21:14576
radiation mortality of, effects of food deprivation on, x, 21:11016
radiation processing of bananas for use in diet of, effectiveness of cobalt-60 γ, 22:10897(R) (NYO-3734-2)
radiation protection by pantothenic acid, 21:20218
radiation protection by serotonin, cytological mechanisms of, 21:398
radiation protection in, by cystamine or cysteamine, mechanisms of action for, 21:16387
radiation protection in, effects of pyrexal on x, 21:3430
radiation protection of blood of, using butanol and DNA, fast neutron, 25:24206
radiation protection of reduced NAD dehydrogenase activity in liver mitochondria in, using AET, biogenic amines, neurotropes, and sulfamides, 25:24214
radiation protection of, comparison of with AET, cystamine, cysteine, 5-hydroxytryptamine, norepinephrine, and tetramethylcystamine for, 25:24402
radiation protection of, DNA and protein metabolism after lethal irradiation, 21:10924
radiation protection of, using bacterial DNA and RNA, 21:10932
radiation protection standards for, interspecies correlation for isotope, 23:14193
radiation protection studies in, tabulated data on, 21:4799
radiation protection using allogeneic bone marrow transplants, development of bone marrow aplasia following x, 25:46895
radiation resistance of lymphocytes and plasma cells in lymph nodes of, 21:14705 (AD-644116)
radiation response of olfactory organs of, x, 23:2929
radiation sickness etiology in, relation of toxins to, 25:52197
radiation sickness in, association of, with familiar and novel food, 21:22759
radiation sickness in, behavior of adrenals, hypophysis, and thyroid during polonium-210 α and γ, 22:47606
radiation sickness in, development of thermal inflammations during, 22:6897
radiation sickness in, effectiveness of antiemetic drugs for treatment of early partial symptoms, 24:34425
radiation sickness in, effectiveness of fungus micelle in diet for treatment of, 23:35780
radiation sickness in, effects of amidine, cystamine, and bone marrow transplants on hematopoietic recovery following, 21:8891
radiation sickness in, effects of analgesics on barbamyl-induced sleep during, 21:1777
radiation sickness in, effects of corticosteroid content on course of, 23:14273
radiation sickness in, effects of dose on severity of x, 21:36723
radiation sickness in, effects of fractures of jaw and thigh bones on survival of, 21:26645
radiation sickness in, effects of transfusion of blood factor XIII from healthy animals on fibrin ultrastructure following acute, 25:42540
radiation sickness in, effects of, on acetylation of PABA by liver in vitro and in vivo, 24:34659
radiation sickness in, effects of, on amino acid composition of hemoglobin, x, 24:48432
radiation sickness in, following administration of water-t, 23:43860
radiation sickness in, neutron autoradiography for diagnosis of, 25:13497
radiation sickness in, pathogenesis of hemorrhagic syndrome during, 25:49222
radiation sickness in, prophylactic effects of B vitamins on, 22:36331
radiation sickness in, protective and therapeutic effects of antimetabolites against, 23:31820
radiation sickness in, protective effects of cysteine against death from cesium-137 γ, 23:16333
radiation sickness in, role of radiotoxins in pathogenesis of, 25:47004
radiation sickness in, submicroscopic changes in bone marrow cells, 21:20256
radiation sickness in, therapeutic effects of DNA and nucleotides on, 23:50857
radiation sickness in, treatment of, with bone marrow, 22:51864
radiation sickness in, use of metoclopramide for treatment of, 24:6068
radiation sickness of, effects of diet on clinical course of, 21:18113
radiation sickness of, effects of sulfathiazole on polonium-210 α and γ, 23:22321(T) (AEC-tr-6944, pp 688-96)
radiation sickness of, effects of, on function and morphology of adrenal glands, 22:33961
radiation sickness prevention in, screening of bone marrow for x, 21:20268
radiationmeffects on blood glucose, liver glycogen, and transaminase in, protective effects of ornithine-aspartate against x, 23:43802
radioactive corrosion product sorption by intestine of, 25:19014
radioactive particles in lungs of, clearance of, effects of various aerosols on, 21:14531 (BNWL-280, pp 65-6)
radioactivity in tissues of, effects of beryllium on autoradiography of, following administration of thorium nitrate, 24:2561
radioactivity of bacillus carrying, effects of dietary calcium and fluorine on gamma, 25:27016
radioactivity of tri-n-octyl ester of phosphorus-32-labeled phosphoric acid in blood, tissues, and urine of, 21:34710
radiodiagnosis of brain of, using iodine-131 and iodine-125 in fatty acid and human serum albumin, 21:22627
radiodiagnosis of kidneys in, using iron-59 and technetium-99 scanning, 21:24485
radiography of thorax of, using amobarbital anesthesia, 23:29606(T) (TT-68-50001/1, pp 97-9)
radiography of, design of structure for, 21:16420
radioimmunoassay for luteinizing hormone in post-partum, 23:35584
radioimmunoassay for prolactin in blood serum of, 23:50253
radioimmunoassay of growth hormone in pituitary and plasma of, 23:35588
radioimmunoassay of insulin in, comparison of methods for, 24:7703
radioimmunoassay of luteinizing hormone from, method for iodine-131, 23:4885
radioimmunoassay of luteinizing hormone in pituitary gland and serum of, 24:649
radioimmunoassay of luteinizing hormone in plasma of, following injection of hypothalamic extract, 23:33586
radioimmunoassay of melanocyte stimulating hormone from, 21:6550
radioimmunoassay of thyrotrophin in blood serum of, iodine-131, 23:33593
radioimmunoelectrophoresis of carcinomas from liver of, 23:11969 (CONF-671111-, pp 607-19)
radioinduced aberrations of chromosomes in bone marrow of, protective effects of serotonin against x, 25:4585
radioinduced aberrations of chromosomes of bone marrow of, protective effects of AET against x, 23:20298
radioinduced aberrations of chromosomes of liver cells of, effects of dose fractionation on x, 22:31054
radioinduced aberrations of fibroblast chromosomes in, comparison of in vitro and in vivo, 23:2812
radioinduced ablation of thyroid gland in, in relation to pituitary secretion, iodine-131 β and γ, 23:31965
radioinduced achlorhydria in, x, 23:50873
radioinduced activation of Rous sarcoma virus in, uv and x, 21:18197
radioinduced acute cerebral edema and subarachnoid and subdural hematoma in, analysis of laser, 21:28664
radioinduced aging of, factors affecting, 22:43422
radioinduced anemia in, effects of erythropoietin on combined γ and neutron, 23:41429 (AD-688767)
radioinduced anemia in, in relation to residual stem cell injury, effects of repeated exposure on combined γ and neutron, 24:19361
radioinduced aplasia in bone marrow of, effects of bone marrow transplants on repair of x, 23:22405
radioinduced atypical mitosis in cells of bone marrow of, whole-body x, 21:32736(R) (EUR-3455.d)
radioinduced aversion to carbohydrate solutions in, x, 23:50835(R) (TID-25119)
radioinduced avoidance behavior in, dose rate threshold for x, 23:50835(R) (TID-25119)
radioinduced avoidance conditioning in, effects of intracranial self-stimulation on, 23:50865
radioinduced benign and malignant neoplasms and degenerative lesions in germfree, whole-body x, 25:47006
radioinduced bone lesions, lymphocyte anomalies, and weight loss in, strontium-90, β, 22:43395 (CEA-R-3388)
radioinduced bone sarcomas in, following injection of monomeric or polymeric plutonium-239, comparison of effects of dose on α, 23:38801
radioinduced bone tumors in, following exposure of limbs, x, 21:3443
radioinduced bone tumors in, following injection of americium-241 or plutonium-239, comparison of latent α, 23:38802
radioinduced calcification in, effects of dihydrotachysterol on x, 25:26933
radioinduced calcifications in, effects of dihydrotachysterol on, 25:26978
radioinduced calcifications in, effects of dose and dihydrotachysterol on γ, 25:26977
radioinduced cancer in bones of, β, 25:24336 (COO-119-242, pp 385-401)
radioinduced cancer in, internal cobalt-60 γ, 23:6574
radioinduced cancer in, morphology of adrenals following strontium-90 β, 23:2759
radioinduced cancers in thyroid of, effects of thiouracil and dose on iodine-131 β and γ, 22:49628
radioinduced carcinogenesis in kidneys of, effects of dose on x, 21:34727
radioinduced carcinogenesis in kidneys of, x, 21:34726
radioinduced carcinogenesis in lungs of, following implants of phosphorus-32 or ruthenium-106 pellets in bronchi, β and γ, 24:27676 (CONF-691001-, pp 321-51)
radioinduced carcinoma in, effects of 2,7-diacetylaminofluorene and gum acacia on fission neutron, 22:28621 (ANL-7278, pp 1-94)
radioinduced carcinomas in lungs of, following implantation of strontium-90, 25:26921(T) (LF-tr-49)
radioinduced carcinomas in male, whole-body fast neutron and x, 22:28661
radioinduced carcinomas in parabiont, classification and pathogenesis of x, 21:16482
radioinduced carcinomas in skin of, x, 25:29628
radioinduced carcinomas in uterus of, radium and x, 25:26827
radioinduced carcinomas in, effects of Teflon implants on x, 22:28623 (ANL-7278, pp 132-43)
radioinduced carcinomas in, following subcutaneous injection of plutonium-239, effects of castration on, 25:37866 (ANL-7770, pp 48-54)
radioinduced cardiovascular anomalies in, following prenatal exposure, neutron, 23:22413
radioinduced cataract development in, in relation to protein distribution, x, 23:41456
radioinduced cataracts in eyes of, effects of age on opacity of x, 23:50869
radioinduced cataracts in eyes of, neutron and x, 25:24332 (COO-119-242, pp 122-30)
radioinduced cataracts in lens of, dose-effect of neutron- and x-, 21:20315(R) (COO-1024-22)
radioinduced cataracts in, additive effects of galactose ingestion on whole-body x, 24:41962
radioinduced cataracts in, effects of LET and wounding on fast neutron and x, 23:29568(R) (COO-1024-33)
radioinduced cataracts of female, pathology of hereditary, x, 21:14752
radioinduced changes in content of free fatty acids in plasma of, 21:24576
radioinduced changes in cytology of thyroid gland in, following iodine-131 therapy, latent β and γ, 24:48718
radioinduced changes in leukocyte preparations from, following whole-body exposure, x, 25:26901
radioinduced changes in lungs of, plutonium-239, 23:24727
radioinduced changes in lymph vessels and number of small lymphocytes in thymus gland of, x, 24:41978
radioinduced changes in placenta of, whole-body x, 23:22356
radioinduced changes in serum proteins of, 21:6439
radioinduced changes in taste sensitivity of, following direct exposure of tongue, low-dose x, 24:34628(R) (NYO-3359-12)
radioinduced changes in taste sensitivity of, following direct exposure of tongue, low-dose x, 24:34627 (NYO-3359-10)

radioinduced changes in thyroid of, electron microscopic study of, 21:28610
radioinduced changes of liver components in, whole-body fractionated x, 21:17971
radioinduced changes of synaptic endings of nerves in solar plexus in, whole-body x, 23:24728
radioinduced chloroleukemia in, effects of chemotherapeutic agents on RNA metabolism during strontium-90, 25:32447
radioinduced chromosome aberrations in bone marrow of, protective effects of DNA against x, 23:12047(T) (AEC-tr-6646/4A, pp 115-19)
radioinduced chromosome aberrations in bone marrow cells of, γ, neutron, and x, 22:8577
radioinduced chromosome aberrations in bone marrow cells of, x, 21:14622
radioinduced chromosome aberrations in bone marrow cells of, effects of high-polymer homologous DNA on repair of γ, 25:44826
radioinduced chromosome aberrations in embryonic cells of, effects of dose and time on x, 25:52217
radioinduced chromosome aberrations in intestinal epithelium of, internal cerium-144 and strontium-90 exposure singly or combined with external x irradiation, 24:27575
radioinduced chromosome aberrations in liver cells of, protective effects of mexamine against, 23:24681
radioinduced chromosome aberrations in liver of, effects of stage of mitosis on x, 23:31692
radioinduced chromosome aberrations in tumor cells of, effects of MEA in modifying, 21:1785
radioinduced chromosome aberrations in, effects of dose and time on x, 25:39816
radioinduced chromosome aberrations in, protective effects of chemical agents against γ, proton, and x, 22:47554
radioinduced chromosome aberrations parenchymal cell in liver of, γ, 21:24567
radioinduced conditioned-sucrose-aversion behavior in, application of Premack theory to x, 21:16431 (USNRDL-TR-67-2)
radioinduced conditioning for saccharin avoidance in, effects of anesthesia on x, 21:28593(R) (ORO-2903-32)
radioinduced cortical carcinomas in adrenal glands of buffalo, mixed whole-body fission neutron and γ, 25:13564
radioinduced creatinuria in, suppressive effects of insulin on x, 22:31167
radioinduced cysts in skin of, after exposure to fast neutrons and x radiation, 21:12989
radioinduced damage of mucosal epithelium of intestines of, effects of dose on x, 25:11255 (BNL-50203, pp 181-5)
radioinduced damage of small intestine of adrenalectomized, protective effects of hormone preparations on, 23:24680
radioinduced damage to nails of, effects of dose fractionation on, 23:22412
radioinduced death of cells in, pathology of, 21:41511
radioinduced death of leukocytes of, effects of dose on time of, 22:36353
radioinduced deciduomata in, effects of shielding on x, 23:6593
radioinduced deformation of skeletal system in neonatal, following in utero exposure, x, 24:36700
radioinduced dendritic degeneration in cerebral cortex of, electron microscope study of, 24:29713
radioinduced depression of bone marrow in, use of plastic sponge vehicle for marrow transplants for osteogenesis and revitalization following whole-body x, 24:46591
radioinduced depression of DNA synthesis in regenerating liver of, dosimetric factors affecting x, 21:8696
radioinduced development of glomerulosclerosis in, effects of age on x, 22:43422
radioinduced diarrhea in, effects of dose on, 22:51896
radioinduced differentiation of epithelial and mesenchymal cells in thymus gland of, light microscopy of whole-body x, 25:26654
radioinduced diseases in blood, kidneys, and liver of, neptunium-237, 25:42253
radioinduced disturbances in mitosis in bone marrow of, RBE for proton, 23:12053
radioinduced dominant lethal mutations in spermatogonia of, x, 25:35129
radioinduced edema in brain of, α and proton, 22:40863
radioinduced edema in brain of, effects of dose on mechanism of x, 24:48677 (COO-1653-88(Draft))
radioinduced epithelial tumors in, strontium-90 β, 22:45717
radioinduced erythema of skin of, uv, 21:20389
radioinduced excretion of xanthurenic acid in, effects of histamine, serotonin, and tryptophan on, 21:10778
radioinduced eye abnormalities in weanling, following prenatal exposure, effects of dose-rate on γ, 23:10049 (ORO-661, pp 4-13)
radioinduced fatty liver in, 22:10675 (BNWL-480, pp 21-54)
radioinduced fibrosarcoma in scalp of, α, 25:35236
radioinduced formation of toxins in liver of, γ, 24:17142
radioinduced fractures and tumors in femoral bones of, following intravenous injection of cerium-144 or plutonium-239, 24:23084 (CONF-690501-, pp 567-76)
radioinduced free radical formation in liver of, protective effects of cysteine and methionine against x, 21:10902
radioinduced free radicals in lyophilized tissues of, effects of oxygen and water on, 22:28369
radioinduced genetic damage in populations of, following repeated exposure over 13 generations, x, 25:55164
radioinduced gingival inflammation in, combined effects of marginal irritant on bone loss following x, 24:51062
radioinduced glomerulosclerosis in, effects of age, food restriction, and unilateral nephrectomy on, 21:24508
radioinduced glomerulosclerosis in, effects of food restriction and uninephrectomy on ultrastructure of x, 22:40859
radioinduced glomerulosclerosis in, effects of malnutrition and uninephrectomy on x, 22:36341 (AD-661795)
radioinduced glycogen synthesis in liver of, 23:24518
radioinduced granulocytic leukemia in, following inhalation of strontium-90, biological characteristics of β, 25:587 (CONF-680529-, pp 517-32)
radioinduced growth inhibition of interscapular brown fat in, effects of cold exposure on, x, 23:22422
radioinduced gustatory avoidance behavior in, 24:2775 (NYO-4039-1, pp 134-49)
radioinduced hemorrhage in, effects of hemostatic compounds on whole-body, 25:24415
radioinduced hemorrhage in, mechanisms for whole-body x, 21:26557(R) (NYO-1680-1)
radioinduced hemorrhages in, effectiveness of ellagic acid for treatment of x, 24:44536
radioinduced hemorrhagic syndrome and osteosarcomas in, following intravenous injection of amercium-241, α and γ, 24:556
radioinduced hepatomas in, synergistic effects of ethionine on x, 23:10046 (NP-17514, pp 47-62)
radioinduced high blood pressure and nephrosclerosis in, combined effects of dose, mode of irradiation, and time on x, 24:14594
radioinduced histochemical changes in adrenal cortex of, x, 21:4754
radioinduced histological changes in brains of, x, 23:20347
radioinduced hyperplastic lesions in mammary glands of, x, 21:43510
radioinduced hypertension and nephrosclerosis in, relation of x, 22:49521
radioinduced hypertension in, following exposure of kidneys, 23:18117
radioinduced immune reactions in, protective effects of serotonin against phosphorus-32 β, 23:41265
radioinduced immunity to sarcomas in, x, 21:12981
radioinduced inactivation of bone marrow cells of, in vitro, effects of dose on, 22:51949
radioinduced inactivation of folic acid in, use of carbon-14 breath analysis to study x, 23:29297 (UCRL-18832)
radioinduced increase in activity of DNA-ase II in spleen and thymus of, effects of AET and cystamine on x, 21:4825
radioinduced increase in liver cholesterol synthesis in, effects of adrenalectomy, cholesterol feeding, hypophysectomy, and puromycin treatment on whole-body x, 24:14426
radioinduced increase in spleen ATPase, protective effects of chemical agents against γ, 21:34678(R) (AD-637575)
radioinduced increase of Proteus in intestine of, following whole-body exposure, 22:6909
radioinduced inflammatory reaction in, uv, 21:16471
radioinduced inhibition of cytochrome oxidase and succinate dehydrogenase activity in heart and liver mitochondria in, γ, 24:5998
radioinduced inhibition of DNA synthesis and mitosis in brains of embryonic, whole-body x, 24:11944
radioinduced inhibition of DNA synthesis in regenerating liver of, mechanisms of x, 23:26686 (NP-17819, Chap.3.3)
radioinduced inhibition of estradiol-induced lactate dehydrogenase activity in uterus of immature, γ, 25:29670
radioinduced inhibition of lipolytic action of glucocorticoids and growth hormones in, uv and x, 21:41366
radioinduced inhibition of mitosis in cartilage and intestine of, effects of dose on x, 24:32203
radioinduced inhibition of spermatogenesis in, x, 21:30907
radioinduced inhibition of tryptophan pyrrolase synthesis in liver of, effects of actinomycin, adrenalectomy, and RNA on γ, 24:16973
radioinduced inhibition of zinc-65 uptake by prostate gland of, effects of gonadotropic hormones and testosterone propionate on, microwave, 21:22511
radioinduced injuries and neoplasms in, following injection of plutonium-239, effects of age on, 24:34617 (BNWL-1050(Pt.1), pp 4.3-6)
radioinduced injuries in lung tissues of, following injection of cobalt-60 particles and exposure to external x radiation, 25:39911(T) (LA-tr-71-34)
radioinduced injuries in, effects of, on synthesis of alpha-2 glycoprotein, x, 23:48196 (AD-687081)
radioinduced injuries in, repair of γ, 24:36809(R) (NYO-3777-33)
radioinduced injuries in, use of antibiotics, electrolyte, and glucose for treatment of acute, 23:43806
radioinduced injuries of liver of, repair of x, 24:14587
radioinduced injuries of thymus in, effects of injection of bone marrow cells on regeneration of x, 25:37882
radioinduced injuries to bone-marrow shielded, role of lymphocytes from shielded marrow on recovery from x, 25:11077
radioinduced injuries to brain of embryos of, 23:29771
radioinduced injuries to fetuses of, effects of iodoacetamide on x, 24:12118
radioinduced injuries to fetuses of, whole-body x, 22:12897 (SZS-12/67)
radioinduced injuries to gastrointestinal blood vessels in, following gastric administration of cerium-144, 21:22691
radioinduced injuries to intestine of, γ, 24:34613 (BNWL-1050(Pt.1), pp 1.12-14)
radioinduced injuries to kidneys of, high dose, 25:11286
radioinduced injuries to skin of diabetic, 21:20361
radioinduced injuries to skin of, effects of dose on skin of, 23:29767
radioinduced injury in skin of, effects of antihistamine, histamine, and 5-hydroxytryptamine on uv, 21:16472
radioinduced injury to bone marrow of, regeneration studies of, x, 21:24625
radioinduced injury to hematopoiesis in, method of determining x, 22:33713(R) (NYO-3728-2)
radioinduced injury to liver of, laser, 22:23630
radioinduced injury to olfactory bulbs of, in comparison to thermosurgical lesions, x, 23:41444
radioinduced interstitial cell tumors in testes of, effects of dose on x, 24:9942
radioinduced isoenzymes of lactate dehydrogenase in brains of neonatal, effects of stage of development at in utero exposure on γ, 24:50739
radioinduced kidney injuries in, histological study of x, 23:29776
radioinduced kidney lesions in, effects of age, dose, splenectomy, and thymectomy on x, 22:43225
radioinduced kidney neoplasms of, in comparison to mice, effects of dose on incidence of x, 24:34644
radioinduced lesions in blood, bone marrow, and lungs of, similarity between lesions induced by vaccinal disease and, 25:58128
radioinduced lesions in dentine of incisors of, effects of dose on x, 25:2592
radioinduced lesions in hypothalamus of, in relation to suppression of hepatic hexobarbital metabolizing enzymes, x, 24:46667
radioinduced lesions in kidneys of, effects of subtotal unilateral nephrectomy on x, 24:34660
radioinduced lesions in kidneys, liver, and lungs of, following single intratracheal administration of thorium dioxide, 25:4702
radioinduced lesions in liver of, pathology and repair of pulsed ruby laser, 22:31232
radioinduced lesions in lungs of, following intravenous injection of plutonium-238-labeled microspheres, 24:27510
radioinduced lesions in rectum of, comparison of high energy proton and x, 23:48209
radioinduced lesions of gastrointestinal tract of, produced by insoluble strontium-89 particles, 21:14711 (BNWL-280, pp 38-9)
radioinduced leukemia and tumors in, following ingestion or injection of radioisotopes, effects of dose on α and β, 23:38794
radioinduced leukemia in, effects of time course of injected isotopes on, 21:16486
radioinduced leukemia in, following inhalation of strontium-90 aerosols, β, 22:23594 (LF-38, pp 108-12)
radioinduced leukemia in, mechanisms for, 25:584 (CONF-680529-, pp 186-218)
radioinduced leukemia in, protective effects of selenium compounds against ionizing, 25:4545
radioinduced leukemic and leukemoid reactions in, following intraperitoneal injection of strontium-90, β, 23:41432(T) (AEC-tr-7086)
radioinduced leukemogenesis in, following injection of mouse leukemia virus, whole-body x, 24:34681
radioinduced leukopenia in, effects of treatment with phenophytin on 350 R whole-body γ, 24:29781
radioinduced liver tumors in, combined effects of ethionine on x, 24:34636
radioinduced loss of sodium in small intestine of, effects of bile on x, 22:51998
radioinduced loss of weight of, protective effects of thiamine tetrahydrofurfuryl disulfide against, 21:45724
radioinduced luminescence of isolated brains from, effects of oxygen on x, 22:40923
radioinduced lymphocytopenia in, in relation to rejection of skin grafts, 23:35897
radioinduced lymphopenia in, use for studying immunogenicity of antigen, x, 23:33656
radioinduced macroadenomas and thyroid carcinomas in, effects of methylthiouracil on iodine-131 β, 22:47594
radioinduced malaise in, effects of, on value of flavor or size of food pellet as conditioned stimulus, x, 22:28686
radioinduced malformation in embryonal systems of, whole-body x, 23:50850
radioinduced malformations in central nervous system in embryos of, x, 25:42629
radioinduced malformations in fetuses of, in comparison to those of mice, x, 25:42639
radioinduced malformations of embryos of, combined effects of iodoacetamide on x, 25:4575
radioinduced malignant tumors in, following strontium-90 incorporation, effects of lactation on β, 24:41736
radioinduced mammary adenocarcinomas in, x, 22:28636
radioinduced mammary carcinomas in, effects of DNA synthesis on whole-body x, 22:28623 (ANL-7278, pp 132-43)
radioinduced mammary neoplasms in, fission neutron, 22:28621 (ANL-7278, pp 1-94)
radioinduced mammary tumors in, fast neutron, γ, phosphorus-32, 23:43862
radioinduced mitotic inhibition in thymus of, mitigating effects of calcium on γ, 21:20332
radioinduced morphological and structural changes in oral tissues and tooth development of, whole-body x, 21:14758
radioinduced morphological changes in, effects of radioprotective agents on, 21:22486
radioinduced mortality of adult, effects of age at exposure on x, 24:9948
radioinduced motor abnormalities of, following exposure of frontal region of brain, 25:42615(R) (COO-1201-30)
radioinduced muscular weakness in, suffering from radiation sickness, 21:4870
radioinduced mutations in corneal cells of, x, 21:43361
radioinduced mutations in germ cells of, in relation to population genetics, 23:29457
radioinduced mutations in lymphosarcoma cells in, 25:46794
radioinduced mutations in spermatogonia of, effects of dose fractionation on cumulative, whole-body x, 23:43745

radioinduced mutations in, following exposure of nine generations, x, 25:42321 (COO-697-23)
radioinduced mutations in, for avoidance learning behavior, x, 23:45698(R) (COO-697-19)
radioinduced mutations in, frequency of x, 23:26740
radioinduced mutations in, protective effects of plasma factors against lethal x, 22:12833
radioinduced mutations in, relation of, to litter size over 14 generations, cumulative x, 24:14475
radioinduced myelitis in, effects of oxygen on x, 25:26966
radioinduced necrosis in brain of fetal, x, 21:28624
radioinduced necrosis in cells of heart muscle of, 23:29799
radioinduced necrosis in cerebral cortex cells in infant, mechanism of x, 25:44909
radioinduced necrosis in heart of, combined effects of content of fluorine and sodium orthophosphate on γ, 23:47946
radioinduced necrosis in spinal cord of, following therapy, 24:34609(T) (BNL-tr-316)
radioinduced neoplasms in hematopoietic system of, following injection of strontium-90, β and γ, 23:24741
radioinduced neoplasms in lungs of, following chronic inhalation of europium-152 and europium-154 mixture, β and γ, 24:27677 (CONF-691001-, pp 429-32)
radioinduced neoplasms in respiratory tract of, following inhalation of radon-222, additive effects of cerium dust inhalation on, 25:21837(T) (LF-tr-47)
radioinduced neoplasms in skin of, 13 MeV proton, 22:40852
radioinduced neoplasms in skin of, effects of age on fast neutron and x, 22:21576
radioinduced neoplasms in thyroid gland of, analysis of changes in cell nuclei during development of β, 22:2534(R) (COO-1243-8)
radioinduced neoplasms in thyroid of, iodine-131 β and γ, 24:39582(R) (COO-1784-22)
radioinduced neoplasms in, following inhalation of plutonium-239, α, 25:6662 (BNWL-SA-3552)
radioinduced neoplasms in, relation of age and sex to incidence of x, 25:58097(T) (ORNL-tr-2521)
radioinduced neoplasms in, relation of whole-body dose to neoplastic, γ, 24:34634
radioinduced neoplasms of mammary tissues of, in vitro x, 22:51948
radioinduced neoplasms of skin in, from reactor debris, β, 22:36249 (AD-661489)
radioinduced neurologic deficits in, occurrence of temporary apnea, laser, 21:28664
radioinduced neutral fat deposition in tissues of fetuses of, x, 23:29804
radioinduced nuclear pyknosis in lymphocytes of, use of, for evaluation of dosimetry, x, 22:38422 (EUR-3939)
radioinduced osteogenic sarcomas in, following head exposure, x, 22:40932
radioinduced osteomyelofibrosis in, protective effects of transplants of allogenic bone marrow cells against x, 23:22393 (EUR-4043)
radioinduced osteonecrosis in facial bones of, protective effects of drugs against x, 23:43799
radioinduced osteoporosis in, effects of time course of injected isotopes on, 21:16486
radioinduced osteoradionecrosis in mandibles of, effects of tetracycline on x, 22:40873
radioinduced osteosarcomas in, effects of dose fractionation and exposure pattern on strontium-90 β, review of, 23:38805
radioinduced osteosarcomas in, following injection of phosphorus-32, 25:55335
radioinduced osteosarcomas in, following injection of phosphorus-32, β, 24:51061
radioinduced osteosarcomas in, following intramuscular injection of strontium-90, β, 22:43395 (CEA-R-3388)
radioinduced osteosarcomas in, following intraperitoneal injection of radium-224, effects of fractionated and single doses on incidence of, 24:34033
radioinduced osteosarcomas in, histological study of phosphorus-32 β, 25:2594
radioinduced osteosarcomas in, LD50 for radium-224 α, 24:27507 (CONF-690540-, pp 309-20)
radioinduced pituitary adenomas in, following thyroid exposure, x, 21:3444
radioinduced pneumonitis in, pathogenesis of, 22:40936
radioinduced pneumonitis in, x, 22:4671
radioinduced pneumosclerosis in, following intratracheal administration of soluble plutonium-239 compounds, histoautoradiographic study of α and γ, 23:31932
radioinduced porphyrinuria in, paper chromatographic study of whole-body x, 21:41507
radioinduced porphyrinuria in, whole-body x, 21:41508
radioinduced premutational damage in liver cells of, factors affecting chemical and radiation, 24:34258
radioinduced prenatal mortality in, effects of dose-rate on γ, 23:10049 (ORO-661, pp 4-13)
radioinduced production of elastic waves in tissues of, laser, 22:43467
radioinduced pulmonary cancer, x, 21:1830
radioinduced pulmonary carcinomas in parabiotic, whole-body x, 21:28617
radioinduced pulmonary fibrosis in, effect of preirradiation hydrocortisone injections on, x, 21:24498
radioinduced pulmonary fibrosis in, etiology and pathology of γ and x, 23:29872
radioinduced pulmonary fibrosis of, following thoracic and whole-body exposure, effects of dose on x, 24:25562
radioinduced pyknosis of brain cells in, reconstitution of x, 23:33835(R) (PU-2000(51))
radioinduced radiation sickness in, effects of vitamin B group on recovery from, 23:48234
radioinduced release of 5-hydroxytryptamine and nonradrenaline by brains of adult and newborn, x, 21:10756
radioinduced renal hypertension in, following bilateral or unilateral exposure of kidneys, evaluation of physiological parameters related to x, 25:26652
radioinduced saccharin and sucrose aversion in, x, 22:10858
radioinduced saccharin and sugar aversion in, γ and x, 22:49488(R) (ORO-2903-43)
radioinduced saccharin aversion in, combined effects of proferrin on x, 23:907
radioinduced saccharin aversion in, effects of age and dose on x, 22:36346
radioinduced saccharin aversion in, effects of anesthesia on x, 22:36345
radioinduced saccharin aversion in, effects of circadian rhythm on, 22:49488(R) (ORO-2903-43)
radioinduced saccharin aversion in, effects of electroconvulsive shock on x, 23:35902
radioinduced saccharin aversion in, effects of electroconvulsive shock on x, 23:29803
radioinduced saccharin aversion in, effects of time of exposure on γ, 22:49607
radioinduced saccharin aversion in, effects of time of exposure on x, 22:49606
radioinduced saccharin aversion in, γ, 22:28627 (NYO-2147-13, pp 196-225)
radioinduced saccharin aversion in, γ, 24:48685
radioinduced saccharin aversion in, x, 22:49486(R) (NYO-3359-4)
radioinduced saccharin aversion of, γ, 25:37878(R) (ORO-2903-46)
radioinduced saccharin avoidance behavior in, effects of trauma on x, 21:34805
radioinduced saccharin-aversion behavior in parabiont, x, 22:4665 (USNRDL-TR-67-95)
radioinduced saccharin-aversion behavior in, combined effects of proferrin on, x, 22:19455
radioinduced saccharin-avoidance behavior in, effects of anosmia on x, 22:8646
radioinduced saccharin-avoidance behavior in, effects of circadian clock on γ and x, 23:33831(R) (ORO-2903-44)
radioinduced saccharin-avoidance behavior in, effects of shielding parabiotic partner on x, 23:31921
radioinduced saccharin-avoidance behavior in, γ, 22:51888
radioinduced sarcomas in, following plutonium-239 injection, α, 22:28623 (ANL-7278, pp 132-43)
radioinduced sarcomas in, following plutonium-239 implants, effects of castration on α and γ, 23:45885 (ANL-7535, pp 28-31)
radioinduced sarcomas in, following subcutaneous implantation of strontium-99—yttrium-90 discs, 24:41720 (ANL-7635, pp 115-53)
radioinduced sarcomas in, following subcutaneous implantation of stronium-90 and ytterium-90, β, 22:28623 (ANL-7278, pp 132-43)
radioinduced sarcomas in, x, 23:45885 (ANL-7535, pp 28-31)
radioinduced skin cancer in, incidence of electron, 24:34633
radioinduced skin tumors in, effects of dose on β, 22:47581
radioinduced skin tumors of, fast neutron and x, 21:28598 (USNRDL-TR-67-37)
radioinduced skin ulcers in, effectiveness of dibunol and metacil for treatment of x, 25:42541
radioinduced somatic abnormalities in newborn, following prenatal exposure, cobalt-60 γ, 23:10049 (ORO-661, pp 4-13)
radioinduced spatial avoidance behavior in, effects of confinement on x, 22:40893
radioinduced sterility of, following acute or continuous exposure during prenatal and neonatal period, γ, 24:23337 (CONF-690501-, pp 589-600)
radioinduced stimulation of olfactory bulbs in, relation of, to respiration rate, x, 24:39566
radioinduced sucrose aversion in, effects of dose and time on x, 22:43447
radioinduced sucrose conditioning in, x, 21:18177
radioinduced suppression of graft regeneration in muscles of, x, 24:46659
radioinduced suppression of immune reactions in donor, host allograft survival following whole-body γ, 25:21604
radioinduced tetanization in spine of, x, 25:21888
radioinduced thrombocytopenia in, effects of blood platelet depletion on severity, 25:16348
radioinduced thrombohemorrhagic diathesis in, Thorotrast effects of noradrenaline on, 21:24572
radioinduced thrombohemorrhagic phenomena in, protective effects of sensitization with carrageenans, indium chloride, and tannic acid against Throtrast, 22:10817
radioinduced thyroid adenomas in, iodine-131 β and γ, 22:43450
radioinduced thyroid carcinomas in, x, 21:3444
radioinduced thyroid neoplasms in, following initial dose of x irradiation or iodine-131, 21:26655
radioinduced toxins in blood serum of, γ, 21:14607
radioinduced toxins in liver of, effects of, on tryptophan pyrrolase activity, 23:17950
radioinduced tumor of pituitary gland of, astitine-211, 22:2538
radioinduced tumors in bones of, following interstitial administration of americium-241 or plutonium-239, 25:24374
radioinduced tumors in breasts of, effects of dose fractionation and rate on γ and x, 23:29794
radioinduced tumors in endocrine system of, x, 22:28647
radioinduced tumors in mammary glands of, effects of dietary ethionine on x, 23:20381
radioinduced tumors in skin of, α, β, electron, proton, and x, 24:21281(R) (NYO-2785-4)
radioinduced tumors in skin of, effects of dose, dose rate, LET, and physiological condition of hair follicles on beta, charged particle, electron, and x, 25:44892(R) (NYO-2785-5)
radioinduced tumors in skin of, effects of electron depth-dose on, 21:24598
radioinduced tumors in skin of, evaluation of critical depth-dose pattern of α, 23:41460
radioinduced tumors in skin of, histology of α, electron, and yttrium-91 β, 23:31953
radioinduced tumors in skin of, probability of α, β, and x, (T), 23:8080
radioinduced tumors in thyroid of, comparison of x radiation and iodine-131 in production of, 21:4867
radioinduced tumors in, effects of age at exposure on x, 21:6701
radioinduced tumors in, effects of dose and dose rate on γ, 24:36809(R) (NYO-3777-33)
radioinduced tumors in, factors affecting incidence of proton, 21:16481
radioinduced tumors in, protective effects of cysteamine against development of x, 24:32041
radioinduced tumors in, protective effects of pentacin against α and γ, 23:2874
radioinduced tumors of, determination of small doses for fast neutron and proton, 22:38483
radioinduced Yoshida sarcomas in, effects of cytostatic drugs on, 24:12265
radioinduction of microvascular thrombosis, embolization, and recanalization in, laser, 21:11019
radioisotope absorption and metabolism in, effects of age and sex on chromium-51, cobalt-58, iron-59, manganese-54, strontium-85, and zinc-65, 23:2752
radioisotope accumulation in bones of, effects of dietary calcium on calcium-45 and strontium-90, 25:23978(T) (AEC-tr-7195, pp 251-5)
radioisotope accumulation in thyroid of, effects of dessicated thyroid and thyrotropin on iodine-131 and technetium-99, 23:38448
radioisotope accumulation in vascular wounds of, as measure of arterial repair, chromium-51, iron-59, manganese-54, selenium-75, strontium-85, and zinc-65, 23:2751
radioisotope accumulation in, effects of diet on cesium-137 and strontium-90, 25:10956
radioisotope administration to pregnant, effects of gestation time on transport across placenta following, 24:23074 (CONF-690501-, pp 153-60)
radioisotope binding to protein in kidneys, liver, and muscles of, 23:24510
radioisotope clearance from lungs of, effects of aerosol concentration on rate of iron-59 and plutonium-239, 25:8591 (CEA-CONF-1677)
radioisotope content and elimination in organs in, following intratracheal administration, cerium-144, cesium-137, and strontium-90, 25:23958(T) (AEC-tr-7195, pp 87-101)
radioisotope content in, following chronic ingestion, effects of Prussian blue on, 25:32453
radioisotope content of brain, kidneys, muscles, and salivary glands of, following intraperitoneal injection, iodine-131, rubidium-86, 24:23094
radioisotope content of excreta and tissues of, comparison of direct and treated-sample determinations of, 25:18997
radioisotope content of tissues of, following intravenous injection, bismuth-212 and lead-212, 23:41213
radioisotope content of tissues of, following subcutaneous injection, 23:17958
radioisotope content of, at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
radioisotope content of, in Southeastern U.S.A., cesium-137 and potassium-40, 23:18017 (CONF-670503-, pp 623-6)
radioisotope content of, use of DTPA for removal of plutonium-237 and plutonium-239, 24:695
radioisotope deposition and retention in, following inhalation of radioactive europium oxide, whole-body europium-152, europium-153, and europium-154, 25:35086
radioisotope deposition in bones of, protective effects of tetracycline against americium-241, plutonium-239, and thorium-228, 25:46695
radioisotope determination in feces, tissues, and urine of, by direct counting, calcium-47 and strontium-85, 23:4964
radioisotope diffusion across placenta in, 24:11908 (ORO-672, pp 21-2)
radioisotope distribution and excretion in, cerium-144, cesium-134, and strontium-85, 22:51475
radioisotope distribution and excretion in, following oral administration, niobium-95 and zirconium-95, 23:792
radioisotope distribution and retention in, following inhalation in fused clay particles, model for insoluble, 25:29422 (LF-43, pp 53-8)
radioisotope distribution in blood and marrow of, positron camera methods for studying fluorine-18, iron-52, and iron-55, 24:784
radioisotope distribution in blood serum of, effects of physicochemical state on, 25:23982(T) (AEC-tr-7195, pp 271-4)
radioisotope distribution in liver of, effects of p-dichlorophenol on calcium-45 and strontium-89, 25:4431
radioisotope distribution in lungs of, in Brazil following inhalation, lead-212 and radon-220, 24:31894
radioisotope distribution in organs and tissues of, terbium-160 and terbium-161, 25:23961(T) (AEC-tr-7195, pp 123-7)
radioisotope distribution in organs and tissues of, following intravenous injection, iodine-131 and iodine-132—tellurium-132, 25:23968(T) (AEC-tr-7195, pp 175-85)
radioisotope distribution in organs of, cesium-137, ruthenium-106, strontium-90, 23:11940(T) (AEC-tr-6972)

radioisotope distribution in organs of, effects of age on zirconium-95 and niobium-95, 24:36685
radioisotope distribution in organs of, following inhalation and intramuscular injection of americium-241, curium-242, plutonium-238, and plutonium-239, 25:8590 (CEA-CONF-1658)
radioisotope distribution in pregnant, following uptake as labeled transferrin, indium-113, iodine-125, and iron-59, 24:34042
radioisotope distribution in subcellular structure of liver of, calcium-45 and strontium-89, 23:31624
radioisotope distribution in thyroid of, effects of age on carbon-14-labeled inulin, chlorine-36, iodine-131, and sulfur-35-labeled sulfate, 24:21068
radioisotope distribution in tissues of pregnant, and fetuses of, following subcutaneous injection of calcium-47, cesium-134, and strontium-85, 25:16000 (ORO-678, pp 14-24)
radioisotope distribution in tissues of, calcium-45 and strontium-89, 22:51465
radioisotope distribution in tissues of, effects of scandium carrier on gallium-67 and indium-113, 23:35595 (ORAU-107, pp 130-3)
radioisotope distribution in tissues of, following inhalation in aerosols, cobalt-60, europium-152, europium-154, and scandium-46, 24:16950(R) (COO-1181-1)
radioisotope distribution in tissues of, following injection of promethium-147 and samarium-147, 25:37712 (BNWL-1551(Pt.2), pp 65-9)
radioisotope distribution in tissues of, following aerosol inhalation, 23:43662 (UH-235-P-8-11)
radioisotope distribution in tissues of, following inhalation as oxide aerosols, plutonium-238 and plutonium-239, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
radioisotope distribution in tissues of, plutonium-238, 239, and uranium-235, 23:47924(R) (UH-235-P-8-X-2)
radioisotope distribution in tumor-bearing, following administration of β-glycerophosphate complexes labeled with chromium-51 and copper 64, 23:12028
radioisotope effects on gastrointestinal tract of, plutonium, ruthenium-106—rhodium-106, and strontium-89, 22:49331
radioisotope elimination from, effects of phosphine chelating agents on cerium-144 and yttrium-91, 23:22319(T) (AEC-tr-6944, pp 615-21)
radioisotope elimination from, use of chelating agents for niobium-95, ruthenium-106, and zirconium-95, 23:22278(T) (AEC-tr-6944, pp 713-18)
radioisotope excretion by, cerium-144, cesium-137, 25:6610(T) (AEC-tr-7169, pp 67-123)
radioisotope excretion by, effects of 1,3-diaminopropanol-2-tetraacetic acid on, 23:47948
radioisotope excretion by, effects of age and sex on use of protective agents to promote, 23:35620
radioisotope excretion by, effects of metabolic rates and species on cesium-137 and iron-59, 25:21561
radioisotope excretion by, following contamination by activated corrosion products, 22:19343
radioisotope excretion in feces of, effects of phytin on calcium-45 and strontium-90, 23:35708
radioisotope fixation in bones of, effects of growth hormone and hypophysectomy on calcium-45 and sulfur-35, 22:47494
radioisotope incorporation and release in bone and teeth of, carbon-14 and strontium-85, 23:20373
radioisotope inhalation by, apparatus for rhodium-106, ruthenium-106, strontium-90, and yttrium-90, 25:6609(T) (AEC-tr-7169, pp 55-66)
radioisotope inhalation by, kinetics of, 22:8476
radioisotope metabolism by effects of compound or media on chromium-51, gold-198, and iodine-131, 23:22170(T) (AEC-tr-6944, pp 165-77)
radioisotope metabolism by, after intratracheal administration, cerium-144 and strontium-90, 23:22152(T) (AEC-tr-6944, pp 14-25)
radioisotope metabolism by, comparison of calcium-45 and strontium-90, 23:22176(T) (AEC-tr-6944, pp 222-6)
radioisotope metabolism in heart of, effects of cardiac cycle on potassium-42 and sodium-24, 24:34061
radioisotope metabolism in lungs of, following intratracheal administration, barium-140 and promethium-147, 23:24508
radioisotope metabolism in neonatal, effects of sparteine sulfate on manganese-54 and zinc-65, 24:25386
radioisotope metabolism in parathyroidectomized and parathormone-treated, effects of dietary phosphates on, 25:37725
radioisotope metabolism in, combined effects of chelates, diuretics, and epinephrine on cerium-144, plutonium-239, and yttrium-91, 25:6617(T) (AEC-tr-7169, pp 205-9)
radioisotope metabolism in, effects of age, hormones, and sex on cerium-144 and cesium-137, 22:43231
radioisotope metabolism in, effects of dietary alginates on calcium-47 and strontium-85, 25:29446
radioisotope metabolism in, effects of dietary phosphates on calcium-45, calcium-47, and strontium-85, 24:23088
radioisotope metabolism in, effects of lactation on, 25:42255
radioisotope metabolism in, factors affecting, 21:28338(R) (BNWL-353(Rev.))
radioisotope metabolism in, following administration of lethal doses, cesium-137 and strontium-90, 23:16253
radioisotope metabolism in, following inhalation of rare earths, 23:29312 (COO-1630-10)
radioisotope metabolism in, following intratracheal administration, niobium-95 and zirconium-95, 23:22194
radioisotope metabolism in, following intravenous injection, europium-152 and -154, 22:51343
radioisotope metabolism in, following subcutaneous injection, niobium-95 and zirconium-95, 23:6348(T) (NSJ-tr-97)
radioisotope metabolism in, in relation to radiation protection standards, niobium-95 and zirconium-95, 23:14214
radioisotope metabolism in, niobium-95 and zirconium-95, 23:24501 (CEA-R-3703)
radioisotope metabolism in, relation of parathormone-induced calciuria and hypercalcemia to, 24:574
radioisotope metabolism of bones of, effects of estradiol on calcium-47 and strontium-85, 25:10933 (COO-1339-45)
radioisotope removal from lungs of, 22:38255(R) (EUR-3918)
radioisotope removal from, effectiveness of DTPA for promethium-143 and promethium-147, 24:34296 (BNWL-1050(Pt.1), pp 5.5-8)
radioisotope removal from, effects of sodium alginate on divalent, 24:50868
radioisotope removal from, efficiency of DTPA in, 21:10771
radioisotope removal from, use of zirconium citrate for niobium-95 and zirconium-95, 23:24501 (CEA-R-3703)
radioisotope removal from, using colloidal prussian blue, cesium-137 and iron-59, 23:38565
radioisotope retention by, effects of alginic acid on calcium-45 and strontium-90, 24:41909
radioisotope retention by, effects of dietary supplements on cesium-134 and strontium-85, 24:2546 (NYO-4039-1, pp 39-46)
radioisotope retention in bones and lungs of, following inhalation in soluble form, effects of DTPA on americium-241, curium-242, and plutonium-239, 25:46676(T) (ORNL-tr-2491)
radioisotope retention in bones of, comparison of strontium-90 and yttrium-90, 24:27506 (CONF-690540-, pp 298-308)
radioisotope retention in bones of, effects of sodium alginate and other polymers on calcium-45 and strontium-89, 24:27515
radioisotope scanning in, for localization of placenta, iodine-131-labeled human serum albumin, 23:38690
radioisotope scanning of kidneys in, advantages of indium-113m, 23:50707
radioisotope sorption and retention in, effects of dietary calcium and vitamin D on, 25:23977(T) (AEC-tr-7195, pp 247-50)
radioisotope sorption by intestine of, effects of dietary alginate, calcium, and phosphate on calcium-47 and strontium-85, 24:2564
radioisotope sorption by intestine of, from vascular space, calcium-47 and strontium-85, 25:4424(R) (TID-25567)
radioisotope sorption by, cerium-144, cesium-137, and strontium-90 and yttrium-90, 25:6608(T) (AEC-tr-7169, pp 33-54)
radioisotope sorption from gastrointestinal tract of, effects of calcium and phosphate content on calcium-47 and strontium-85, 23:801
radioisotope sorption from gastrointestinal tract of, effects of dietary phosphates and vitamin D on calcium-45 and strontium-85, 23:802
radioisotope sorption from intestine of, effects of aluminum phosphates and sodium alginate on calcium-45 and strontium-85, 22:49245
radioisotope sorption in cerium-144, cesium-137, ruthenium-106, and strontium-90—yttrium-90, 25:6607(T) (AEC-tr-7169, pp 15-32)
radioisotope sorption in intestinal wall of, calcium-45, cerium-144, cesium-137, and yttrium-91, 25:23981(T) (AEC-tr-7195, pp 267-70)
radioisotope sorption in, cesium and strontium, 25:6618(T) (AEC-tr-7169, pp 210-20)
radioisotope sorption through burns, intact skin, and muscle wounds in, cesium-137, iodine-131, phosphorus-32, and strontium-89, 23:16247
radioisotope sorption through skin of, protective effects of angiotonics against, 23:9964
radioisotope transport across placental membranes in, relation of, to discrimination among homologous elements, 24:4548 (CONF-690501-7)
radioisotope uptake and retention by bones in, effects of exogenous thyrocalcitonin and thyroxine on calcium-47 and strontium-85, 24:34072
radioisotope uptake by bones of, effects of calcium content of diet on barium-140 and yttrium-91, 23:17945
radioisotope uptake by bones, gastrointestinal track, and tissues of, kinetics of, 25:23952(T) (AEC-tr-7195, pp 44-8)
radioisotope uptake by epididymus and testes of, cadmium-109 and zinc-65,' 22:51365
radioisotope uptake by fractured and normal bones in, calcium-47 and strontium-85, 23:33617
radioisotope uptake by liver of, following injection, effects of physico-chemical state on, 23:47949
radioisotope uptake by lysosomes of liver and testes of, 24:14400
radioisotope uptake by oligonucleotides of nuclear and nucleolar RNA of liver of, carbon-14 and phosphorus-32, 24:34055
radioisotope uptake by organs of, effects of gonadotropin on phosphorus-32 and sulfur-35 β, 24:41737
radioisotope uptake by thyroid of, effects of functional state of thyroid on chlorine-36 and iodine-131, 24:31837
radioisotope uptake by thyroid of, effects of thyrotropic hormone on iodine-131 and rubidium-86, 23:35607
radioisotope uptake by, effects of antithymus serum on calcium-45 and carbon-14 calcified tissues of, 24:50690
radioisotope uptake by, from food or maternal milk, relation of weaning age to, 25:32328
radioisotope uptake from blood by bones of, in relation to rate in other animals, 24:31815 (ANL-7489, pp 77-81)
radioisotope uptake from brown algae by, effects of algal alginate content on calcium-45 and strontium-85, 22:45399
radioisotope uptake from gastrointestinal tract following ingestion, protective effects of alginic acid and sodium alginate against, 25:46890
radioisotope-labeled aerosol distribution in, following inhalation, effects of particle size and solubility on, 23:33601
radioisotope-labeled DTPA distribution in, chromium-51, gallium-72, and indium-113, 23:12027
radioisotopes sorption, metabolism, and excretion in, effects of alginate in diet on calcium-45 and strontium-85, 23:24542
radiometric analysis of bone tissues from, given calcium-45-labeled calcium chlorides or sulfur-35-labeled sodium sulfate, 21:4471
radiometry of tryptophan 5-hydroxylase activity in tissues of, 22:457
radiomolybdenum distribution in, autoradiographic study of, 22:40555
radioprotective effect of neomycin in, following whole-body x irradiation, 21:20230 (AFRRI-SR-66-5)
radioprotective effects of chemical agents in tumor-bearing, tracer study of effects of metabolism on, 21:20241
radioprotective effects of cysteamine on, effects of physiological state on, 22:38408
radioprotective effects of DNA extracts from, on survival of mice, x, 21:396
radioprotective effects of nitro-N-phenylbenzamidine on, 21:401
radioselenium distribution in, autoradiographic study of, 22:40555
radiosensitivity of ascites tumors and Pliss lymphosarcomas of, effects of dose on, 24:34699
radiosensitivity of BD1 and Wistar, relation to the erythrocyte survival time in, x, 21:3442
radiosensitivity of bone marrow cells of, effects of age on x, 25:42656
radiosensitivity of brain parts in neonatal, tritium tracer study of, 23:38809
radiosensitivity of brain tissues in, in relation to qualitative parameters of cells, 24:23104 (CONF-690501-, pp 823-39)
radiosensitivity of carcinosarcomas in, enhancement of, by selective tissue oxygenation, 22:10828
radiosensitivity of cells in, in relation to diurnal variation, x, 24:34120
radiosensitivity of central nervous system of, comparison of methods for determination of, 22:15058
radiosensitivity of choroid, optic nerve, and retinal tissues in, comparison of, 25:11284
radiosensitivity of chromosomes in cornea of, effects of adrenalectomy on x, 22:4596
radiosensitivity of concentration of aromatic amines in, effects of iproniazid on x, 24:50769
radiosensitivity of cultured oocytes from, x, 24:23299 (CONF-690501-, pp 955-61)
radiosensitivity of cultured ovaries from, x, 23:45870
radiosensitivity of DNA from, effects of DNAase on, 21:34595
radiosensitivity of embryos of, effects of age on, 21:43513
radiosensitivity of embryos of, in comparison to species differences of mice embryo sensitivity, 25:11277
radiosensitivity of embryos of, in utero in comparison to embryos of mice, role of species differences in x, 25:11277
radiosensitivity of erythropoiesis in, effects of altitude on x, 25:46990
radiosensitivity of gastrointestinal tract of, 25:29646
radiosensitivity of growth of transplanted tumors in, effects of hypothermia on, 24:34707
radiosensitivity of implanted ascites hepatomas in, effects of mixed gas inhalation on oxygen tension in relation to, 23:41388
radiosensitivity of incisors and labial and lingual dentinogenesis in, effects of dose on x, 24:27698
radiosensitivity of leukocytes from, x, 21:427
radiosensitivity of liver mitochondria from, effects of iodoacetamide on, 21:4835
radiosensitivity of lymphatic system and thymus of, x, 25:29635
radiosensitivity of lymphocytes in peripheral blood of, in relation to other animals, 22:19438
radiosensitivity of oocytes of, effects of pituitary gonadotropin on x, 24:23348 (CONF-690501-, pp 943-54)
radiosensitivity of pulmonary tissue in, effects of pneumothorax on, 25:41833(R) (IA-1218)
radiosensitivity of sarcomas in, effects of oxygen on x, 21:32782
radiosensitivity of sarcomas of, in relation tissue structure, 23:20385
radiosensitivity of streptozotocin-induced diabetic, x, 25:27010
radiosensitivity of striated muscles in, x, 25:29629
radiosensitivity of testes of, effects of age and rate of androgen synthesis on x, 23:22185(R) (COO-1602-9)
radiosensitivity of thymus of, biochemical basis for x, 21:17970
radiosensitivity of thyroid in, comparison of, to man, 21:11036
radiosensitivity of transplanted tumors in, relation of protein sulfhydryl group to, 25:42618
radiosensitivity of Yoshida sarcomas of, effects of 5-bromo-2'-deoxyuridine on x, 21:32692
radiosensitivity of, biochemical factors affecting, 22:19269
radiosensitivity of, correlation with oxygen consumption during stress, 21:11034
radiosensitivity of, effects of adrenalectomy and drugs on x, 23:2887
radiosensitivity of, effects of age on x, 22:21612
radiosensitivity of, effects of borane compounds on γ and fast neutron, 21:34785
radiosensitivity of, effects of cervical or abdominal sympathectomy on, 21:16445(T) (JPRS-38272, pp 246-7)

radiosensitivity of, effects of circadian clock on, 22: 36391
radiosensitivity of, effects of direct electric current on x, 25:42530
radiosensitivity of, effects of dose and seasonal changes on γ, 22:8640
radiosensitivity of, effects of dose on acute cobalt-60 γ, 23:41428 (AD-688375)
radiosensitivity of, effects of ferrous ions in presence of oxygen on, 25:29556
radiosensitivity of, effects of genetic strain on, 25:44941
radiosensitivity of, effects of inorganic composition of diet on, 21:22735
radiosensitivity of, effects of local hypoxia on x, 22: 40949
radiosensitivity of, effects of monoiodoacetic acid on, 22:45618
radiosensitivity of, effects of urease on whole-body x, 24:25505
radiosensitivity of, protective effects of sulfhydryl groups against, 25:35213
radiosensitivity of, relation of age and sex to effects of metabolic activity on x, 25:42635
radiosensitivity of, relation of testicle to whole-body x, 21:32765
radiosensitivity of, use of 5-hydroxyindoleacetic acid excretion as indicator of x, 22:28658
radiotherapy for rhabdomyosarcomas, effects of dose fractionation on RBE of 15 MeV neutrons and 300 kV x rays for, 24:32232
radiotherapy of carcinomas in, combined effects of antimetabolites and radiosensitizers on iridium-192 γ, 24:51008
radiotherapy of Crocker sarcomas in, effects of cytostatic agents on, 24:12201
radiotherapy of liver carcinomas of, combined effects of drugs on therapeutic x, 24:34706
radiotherapy of sarcomas of, effects of dietary protein on x, 22:40856
radiotherapy of transplantable sarcomas in, combined effects of antineoplastic compounds with, 21:28537
radiotherapy of tumors in, effects of high-pressure oxygen on, 21:24457
radiotherapy of tumors in, review of, 25:11219 (BNL-50203, pp 130-53)
radiotherapy of Walker tumors in, combined effects of ellagic acid, endotoxin, and epinephrine on x, 23: 10034
radiotherapy of Yoshida sarcoma of, radioprotection with ATP, 21:24458
radium-223 uptake and elution of, by powdered bone of, mechanism and rate of, 22:8455
radium-224 distribution in tissues of, following intraperitoneal injection, dose relation for radium-226 and, 25:55115
radium-224 distribution in tissues of, following intravenous injection, 25:32337
radium-224 metabolism and toxicology in, 21:32735(R) (EUR-3270.d)
radium-224 metabolism in, following injection, 24:27507 (CONF-690540-, pp 309-20)
radium-224 toxicity in, pathogenesis of, 24:39549 (EUR-4405)
radon daughter content in organs and tissues in, following inhalation of radon-222, 25:42248
radon inhalation by, carcinogenic effects on lungs in combination with toxic dusts, carcinogenic, 24:51039
radon inhalation by, effects of, on development of experimental silicosis, 23:24537
radon inhalation by, lead-210 and polonium-210 distribution following, 23:24537
rare earth aerosol retention in alveolar lipoproteins of, biochemistry of liquid, 25:18889 (CEA-CONF-1676)
rare earth metabolism in, factors affecting biological and physicochemical interactions during, 25:46674 (BNWL-SA-3964)
rare earth retention in, effects of EDTA on, 22:8479
rate of mitosis in cells of adult and fetal, effects of diurnal variations on, 23:2747(T) (UCRL-Trans-10211)
reaction to maternal skin grafts, suppression of, by x irradiation of placenta, 21:20341
reactor coolant toxicity in liver of, ingested organic, 25: 21547 (EUR-4548)
recovery from strontium and fluoride induced abnormal mineralization in incisor dentin of, 21:6635
redox potential in muscles of, effects of cystamine on, 25:58031
regeneration of bone marrow in x-irradiated, effects of phytohemagglutinin on, 21:6592
release of histamine from peritoneal mast cells of, effects of deuterium oxide on, 23:6370
removal of plutonium-239-labeled plutonium oxide particles from lungs of, effectiveness of pharmaceuticals for, 23:6434 (BNWL-714, pp 6.1-21)
removal of thyroid gland in, effects of iodine-131-labeled sodium iodide on tissue elimination following, 24:793
removal of zirconium-95—niobium-95 oxalate from, using zirconium citrate, 23:43748 (CEA-R-3810)
renal scintigraphy of, method for use of technetium-99m-iron complex for, 22:33888
repair of skin wounds in, use of γ-radiosterilized plastic materials for, 24:933
reproduction of cultured liver cells from, 22:30409(R) (NYO-2356-29)
reproductive capacity of, effects of diet containing γ-irradiated papayas on, 24:32293 (TID-25408)
respiration in liver of, effects of cysteamine on, 24:7929
respiration in mitochondria from liver of, effects of metal cations on, 21:22243 (UCRL-50168)
respiration in mitochondria of liver of, effects of copper on, 21:42862 (UCRL-50274)
respiration in, effects on anions and cations produced in air by krypton-85 on, 21:24559
respiration of mitochondria from brain and liver of irradiated and unirradiated, effects of radioprotective compounds on, 21:22636
respiration of, effects of anesthetics and polarized air ions on, 21:26576
response of smooth muscle from uteri of, to acetyl choline, angiotensin, and bradykinin at various concentrations of Sr, Ca, Na, Mg, and K ions, 21: 12801
response to castration, use of luteinizing hormone radioimmunoassay to determine, 23:35585
response to thiopental in, effects of premedication with barbituates on, 23:912
reticulo-endothelial system activity of, effects of, on susceptibility to traumatic shock, phagocytic, 22:40846
rhodium-103 metabolism in, determination of, by whole-body counting techniques, 21:28394
rhodium-106 inhalation by, dynamics of, 22:8538
RNA excraction from brains of trained, effects of, on behavior of untrained, 22:20977 (COO-825-35)
RNA nucleotidyltransferase activity in hepatic nuclei of, inhibition of, by nickel carbonyl, 22:6216(R) (ORO-3461-9)
RNA preparation from tissues of, improved methods for labeled, 22:12746 (EUR-3669)
RNA synthesis in liver of, effects of insulin on, 22: 28287 (ORNL-4100, pp 160-4)
RNAase activity in intestine of, effects of chlorambucil and myleran, 22:36399
rubidium metabolism in, tracer studies of, 22:25762
rubidium-86 distribution and retention in, effects of aldosterone, potassium, and rubidium, and sulfonamides on, 23:6361
rubidium-86 distribution in denervated muscles of, 21: 22345
rubidium-86 distribution in heads of, microautoradiographic study of, 24:16966
rubidium-86 distribution in myocardial tissues in, effects of isoprenaline or necrosis on, 23:33596
rubidium-86 metabolism by, 22:12760(T) (UCRL-Trans-10175)
rubidium-86 metabolism in, effects of drugs, potassium, and rubidium on, 24:5983
ruthenium-103 metabolism in, determination of, by whole-body counting techniques, 21:28394
ruthenium-106 inhalation by, dynamics of, 22:8538
ruthenium-106 sorption by intestines of, effects of age and particle size on, 22:10676 (BNWL-480, pp 85-97)
ruthenium-106 whole-body retention following ingestion or injection as chloride, 25:49091
sarcoma growth in, effects of x-irradiated bone marrow on, 22:25862
scandium-46 deposition and distribution in organs and tissues of, effects of method of administration on, 25: 23960(T) (AEC-tr-7195, pp 111-22)
scanning in, evaluation of technetium-99-labeled dextran for, 22:33892
scanning of kidneys in, use of gallium-68-labeled EDTA for, 22:51792
scanning of kidneys of, use of gallium-68-labeled gallium polymetaphosphate magnesium polymetaphosphate for, 22:36326
scanning of kidneys of, use of iodine-131 and mercury-203 for, 22:38403
scanning of liver and lungs of, use of radioisotope-labeled dextran for, 22:43388
scanning of liver in, using colloidal gallium-68, 21:45709
scanning of sarcomas in, evaluation of gallium-67, indium-113m, indium-114m, and scandium-46 for, 25: 32503
scanning of thyroid gland in unrestrained, use of iodine-131 and two opposed counters for, 22:33857
secretion of pituitary harmones by, effects of cystamine and cysteamine on, 21:32764
secretion of thyroxine in female, iodine-131 tracer study of effects of calciferol and parathyroid extract on rate of, 23:50238 (COO-1758-16)
selenium metabolism by, tracer studies of, 22:49278
selenium metabolism in, 21:20108
selenium-75 distribution in pancreas of, effects of pancreozymin and secretin on, 25:26591
selenium-75 distribution in tissues of, effects of carrier and administration route on, 25:51979
selenium-75 metabolism in, 23:14124
selenium-75 metabolism in, 22:49278
selenium-75 metabolism in, whole-body counting method for determining, 23:50314
selenium-75-labeled fibrin and degradation products by isolated perfused liver of, 21:22283
selenium-75-labeled methionine metabolism in, 22:30979
selenium-75-labeled selenomethionine uptake by parathyroid glands in, 22:28596
selenium-75-labeled sodium selenite metabolism in, 22: 33723
selenomethionine uptake by parathyroid glands of, effects of EDTA on, 22:38334(R) (COO-1653-45)
sensitivity to infection by γ-irradiated Babesia-infected erythrocytes, 25:46756
sensitivity to reflected shock waves at ambient pressures, 21:28510(R) (DASA-1852)
serum clearance of EDTA and DTPA in, carbon-14 tracer study of, 23:20105
silica distribution in lungs of, effects of radon on, 24: 4549
silver-110 metabolism in, in relation to MPC for man, 23:7949
silver-110 removal from vagina of, effects of estradiol and inflammation on, 22:14960
silver-111 metabolism by, effects of isotope carrier and pathway of administration on, 23:22173(T) (AEC-tr-6944, pp 188-93)
sodium carbonate uptake by liver glycogen of, in comparison to carp, frogs, and pigeons, carbon-14 tracer study of, 25:21533
sodium metabolism in, determination using sodium-22 and sodium-24, 23:16332 (NIRS-7, pp 69-79)
sodium-22 diffusion into lumen of uterus in, effects of stage of sexual cycle on, 21:39330
sodium-22 transport in intestines of, effects of nitrogen mustards on, 22:10824 (BNWL-480, pp 1-19)
sodium-22 uptake by mast cells of, in relation to histamine release, effects of compound 48/80 on, 24: 31775
sodium-24 metabolism in, following inhalation of labeled aerosols, 25:24037
sodium-24 turnover in bones of, effects of diet and parathyroid activity on, 24:25374
sorption of chromium-51-labeled phosphates by organs of, use of arabic gum and gelatin colloids for removal following, 23:50309
sorption of cobalt-57-labeled vitamin B_{12} in stomach of, effects of vitamin B_2-deficient diet on, 21:34622
sorption of iodine-131-labeled serum albumin in, following intraperitoneal injection, effects of diet on, 23:35621
sorption of thyroxine from intestines of, isolation of binding substance from bile associated with, 23: 43660(R) (ORO-1643-92)
sorption of tritium oxide by skin of, effects of air temperature and season on, 23:26675
sorption of tritium-labeled water in intestines of, effects of xenon on, 23:24738
sorption properties of internal organs following administration of burns and gamma radiation, 21:6671
stability of lysosomal membranes of liver cells of, effects of drugs on, 23:9861
stem cell formation in, effects of x-irradiated aminocaproic acid, pentosan SP 54, sanguina deproteinase, and SD-SK on, 22:16990
steroid metabolism in, 21:26331(R) (NYO-918-16)
strontium absorption from intestine of, effects of pH on, 21:10788
strontium content in incisor teeth of, effects of calcium content in diet on, 21:41322
strontium content of hair of, for use in monitoring, 23: 14211
strontium elimination from, effects of chelating agents on, 23:22318(T) (AEC-tr-6944, pp 581-91)
strontium excretion by kidneys of, effects of fursemide on, 21:16285
strontium isotope sorption through intestines of, effects of alginic acid components on, 25:10939
strontium metabolism in bones and teeth of, effects of dietary calcium, phosphorus, and strontium on, 23: 22225
strontium metabolism in, effects of diet on discriminatory, 23:12019
strontium metabolism in, effects of EDTA on, 25: 6615(T) (AEC-tr-7169, pp 180-98)
strontium radioisotope uptake by duodenum of, intestine in, mechanism of, 24:36687
strontium radioisotope uptake from intestine of, effects of alginates on, 24:34059
strontium removal using acetic acid-based chelating agents, 21:22303
strontium retention in, effects of EDTA on, 22:8479
strontium sorption by gastrointestinal tract of, inhibition of, by ion exchangers, 22:8484
strontium sorption by intestines of, effects of sodium alginates on, 22:19240
strontium to calcium ratios in hair of, used for radiation dosimetry, 21:22239(R) (NYO-2147-12)
strontium transfer from liver to intestine of, effects of chemicals on, 21:17973
strontium uptake and retention by mineralized tissues of, relation with calcium, 21:22363
strontium uptake by femoral bones of, 22:8450
strontium-85 absorption by, effects of activated barium sulfate on, 24:36688
strontium-85 absorption in intestine of, use of alginates for prevention of, 21:24513
strontium-85 deposition in bones of, effects of dose and time of administration on effectiveness of activated barium sulfate for prevention of, 25:11048
strontium-85 distribution in organs of, following intravenous injection, effects of phosphates on, 25: 37724
strontium-85 distribution in tissues of, 23:50860
strontium-85 elimination from, combined effects of ion exchange resins and manetol on, 25:32330
strontium-85 excretion by, effects of 2,2-bis[(dicarboxymethyl)amino]diethyl ether and CPDTA on, 23:7944
strontium-85 excretion by, effects of calcium content in diet on, 21:14539 (BNWL-280, pp 28-31)
strontium-85 excretion by, ratio of urinary to fecal, 21: 45572
strontium-85 excretion in, effects of pilocarpine and stable calcium, magnesium, and strontium on, 23: 24543
strontium-85 in, following administration of polyphosphates, 21:10765
strontium-85 metabolism by, 23:14132
strontium-85 metabolism in, 21:24315
strontium-85 metabolism in bones and teeth of, effects of cortisol on, 25:23994 (COO-119-242, pp 312-53)
strontium-85 metabolism in bones of, effects of diuretics and parathormone on, 25:4423 (COO-1601-23)
strontium-85 metabolism in bones of, effects of hypophysectomy on, 21:6425
strontium-85 metabolism in bones of, effects of pyridoxine deficiency on, 21:10795
strontium-85 metabolism in bones of, effects of vitamin A deficiency on, 21:10807
strontium-85 metabolism in fractured bones of, in relation to calcium mobilization, 22:51319
strontium-85 metabolism in growing, effects of chlortetracycline on, 21:6454
strontium-85 metabolism in hypophysectomized, effects of thyrotropic hormone on, 21:6448
strontium-85 metabolism in old and young, compartmental and experimental analysis of, 22:30961
strontium-85 metabolism in, effects of chelating agents on excretion rate in, 23:38403
strontium-85 metabolism in, effects of estradiol on, 25: 8592(R) (COO-1339-43)

strontium-85 metabolism in, effects of phosphorus content in diet on, 21:16266
strontium-85 metabolism in, effects of thyrocalcitonin on, 21:41327
strontium-85 metabolism in, following inhalation in aerosols, 22:23404 (LF-38, pp 65-72)
strontium-85 removal from bone of, use of parathyroid hormone and sodium citrate for, 21:24363
strontium-85 removal from, effectiveness of strontium cryptate for, 24:48533
strontium-85 retention by, effects of barium, calcium, magnesium, and sodium sulfate in reducing, 21:17957
strontium-85 retention by, effects of strontium content of diet on, 21:45575
strontium-85 retention in bones of, effects of cortisol on, 25:23993 (COO-119-242, pp 282-302)
strontium-85 retention in bones of, effects of sex hormones on, 22:51345
strontium-85 retention in plasma and soft tissues of, 23:45624 (ANL-7535, pp 59)
strontium-85 retention in skeleton of, effects of CPDTA, DIMEDTA, and PDTA on, 22:43222
strontium-85 retention in, effects of age and lactation on, 25:42252
strontium-85 retention in, effects of parathyroid hormone and vitamin A on, 21:22246
strontium-85 retention in, modification of physiological parameters to control, 23:24545
strontium-85 sorption and excretion by, effects of carbonates, chlorides, phosphates and sulfates on, 21:45576
strontium-85 sorption by femur of, effects of bone density on, 23:33611
strontium-85 sorption by intestine of, effects of alginates from algae on, 25:42254
strontium-85 toxicity to, following inhalation, 22:23404 (LF-38, pp 65-72)
strontium-85 transport through intestinal epithelial membranes in, reaction mechanisms for, 25:10938
strontium-85 uptake and elution of, by powdered bone of, mechanism and rate of, 22:8455
strontium-85 uptake and retention by pregnant female and newborn, following oral administration or subcutaneous injection, 23:50300
strontium-85 uptake by blood and bones of, following ingestion, effects of lactose ingestion on, 23:29320
strontium-85 uptake by blood, bones, and intestine in, effects of treatment with aluminum phosphate colloids on, 24:9741
strontium-85 uptake by bones of, following oral administration, effects of barium sulfate on, 25:10940
strontium-85 uptake by duodenum of, effects of sodium alginates on, 22:30975
strontium-85 uptake by growing bones of, effects of progestogen and progestogen with estradiol on, 24:31814 (ANL-7489, pp 53-68)
strontium-85 uptake by regenerating bone at dental extraction site in, histological study of, 24:11914
strontium-85 uptake by sections of duodenum of, effects of oxydized amylose, oxycellulose, and sodium alginate on, 22:6900
strontium-85 uptake by, effects of alloxan-induced diabetes on, 21:10805
strontium-85 uptake by, in relation to osseous activity in dental extraction wounds, 22:33713(R) (NYO-3728-2)
strontium-89 distribution in subcellular fractions of liver in, effects of time on, 22:25769
strontium-89 elimination from, effects of tetracycline derivatives on, 23:22272(T) (AEC-tr-6944, pp 599-606)
strontium-89 incorporation in subcellular fractions of liver of, effects of uncoupling agents on, 22:16989
strontium-89 metabolism in, effects of age and diet on, 23:50289
strontium-89 metabolism in, effects of calcium content of diet on, 22:25770
strontium-89 metabolism in, effects of sodium alginate on, 24:23096
strontium-89 retention in liver of, role of mitochondria in, 22:33751
strontium-89 sorption by intact skin of, following topical application, 24:9739
strontium-89 sorption by intestine and uptake by bones in, effects of sodium alginate on, 21:45566
strontium-90 content in offspring of, following maternal injection, 21:41350
strontium-90 content of bones of, effects of content of diet on, 22:12767
strontium-90 deposition in bones of, effects of calcium content of diet on, 21:39343
strontium-90 deposition in skeleton of lactating, 24:41736
strontium-90 distribution in the femoral medullary canal in, following intravenous injection, effects of sex on, 25:29524
strontium-90 distribution in tissues of, following intravenous injection, 21:26350
strontium-90 effects on liver morphology in, 21:20349
strontium-90 elimination from bones of, effects of immunization on, 22:6745
strontium-90 equilibrium with yttrium-90 in, following oral administration, 22:25772
strontium-90 excretion by, 22:2479 (BNWL-SA-1252)
strontium-90 excretion by, effects of alginates on, 21:45566
strontium-90 excretion by, effects of calcium content of diet on, 22:30959
strontium-90 excretion by, effects of polyvinylpyrrolidone on, 22:21456
strontium-90 inhalation by, dynamics of, 22:8538
strontium-90 metabolism and toxicity in, 22:8466
strontium-90 metabolism and toxicity in pregnant and young rats, 22:8486
strontium-90 metabolism by, effects of calcium diet on, 23:22175(T) (AEC-tr-6944, pp 205-14)
strontium-90 metabolism by, effects of diet on, 23:22180(T) (AEC-tr-6944, pp 641-50)
strontium-90 metabolism by, effects of fractionated and single doses on, 23:22158(T) (AEC-tr-6944, pp 67-77)
strontium-90 metabolism by, effects of isotope and non-isotope carriers on, 23:22174(T) (AEC-tr-6944, pp 194-204)
strontium-90 metabolism by, effects of stable strontium on, 23:20123
strontium-90 metabolism by, effects of vitamin D and uv radiation on, 23:22172(T) (AEC-tr-6944, pp 183-7)
strontium-90 metabolism by, following chronic ingestion, 22:49246
strontium-90 metabolism by, in relation to metabolism of calcium and stable strontium, 23:38447
strontium-90 metabolism by, testing of models for, 23:22166(T) (AEC-tr-6944, pp 131-7)
strontium-90 metabolism in bones of, exposed prenatally, effects of age on, 23:4874
strontium-90 metabolism in skeleton of, comparison of effects of age on stable strontium and, 25:23951(T) (AEC-tr-7195, pp 40-3)
strontium-90 metabolism in, after inhalation as aerosol, 21:17951(R) (LF-33)
strontium-90 metabolism in, effects of age and calcium intake on, 22:47472
strontium-90 metabolism in, effects of calcium, phosphorus, and sex hormones on, 22:45404
strontium-90 metabolism in, effects of diet on, 25:23974(T) (AEC-tr-7195, pp 226-35)
strontium-90 metabolism in, effects of dietary phytins and sodium phytate on, 25:23975(T) (AEC-tr-7195, pp 236-40)
strontium-90 metabolism in, following inhalation in aerosols, 22:23404 (LF-38, pp 65-72)
strontium-90 retention in offspring of, following maternal injection, effects of maternal age on, 25:46689
strontium-90 solubility in gastrointestinal tract of, relation of calcium content of food to, 22:51373
strontium-90 sorption and retention by, effects of barium and sodium sulfates, calcium phosphates, or sodium alginate in diet on, 21:39434
strontium-90 sorption by digestive tract of, effects of diet on, 25:23973(T) (AEC-tr-7195, pp 220-5)
strontium-90 sorption by teeth of, effects of fluorine, parathyroid hormone, and vitamin D on, 23:16246
strontium-90 sorption from gastrointestinal tract of, effects of inhibitors of oxidative phosphorylation on, 21:45562
strontium-90 sorption from gastrointestinal tract of, use of ion exchange resins for prevention of, 23:22273(T) (AEC-tr-6944, pp 607-14)
strontium-90 sorption in bones of, effects of calcium alginate on, 21:28361
strontium-90 sorption in intestines of, effects of ion exchange materials on, 23:26663(T) (NP-tr-1757)
strontium-90 toxicity to neonatal, in relation to bone growth and survival, 24:23081 (CONF-690501-, pp 517-27)
strontium-90 toxicity to, following inhalation, 22:23404 (LF-38, pp 65-72)
strontium-90 transfer from maternal to neonatal, during lactation, 24:41736
strontium-90 transfer to offspring of, effects of dietary calcium, magnesium, and strontium on, 21:6450
strontium-90 uptake and retention in skeleton of, effects of age and dose on, 22:6754
strontium-90 uptake by young, from milk of mothers, effects of post-partum time on, 25:24020
strontium-90 uptake by, effects of content of calcium in diet on, quantitative evaluation of, 21:4756
strontium-90 uptake by, from food, effects of alginates on, 22:49262
strontium-90 uptake by, relation of content of calcium and fluorine in diet to, 22:51377
strontium-90 uptake by, transfer to offspring following, 22:14926
strontium-90—yttrium-90 sorption by bones of, development of model for describing, 25:32341
strontium-compound aerosols in, distribution of, tracer study of, 21:14533 (BNWL-280, pp 53-5)
sulfhydryl group content of ascites hepatoma of, effects of, on sensitivity to nitrogen mustard, N-oxide, and x radiation, 22:31272
sulfur-35 distribution in liver cells of, following chronic administration of labeled sodium sulfate, 22:12807
sulfur-35 uptake by chondroitin sulfate in diabetic, effects of liver soluble enzyme on, 25:24001
sulfur-35 uptake by epiphyseal cartilage in, effects of papain on, 21:22311
sulfur-35 uptake by gastric mucosa and secretion in gastric juice of, with stomach ulcers, effects of steroid hormones and inflammation suppressive drugs on, 25:26605
sulfur-35 uptake by gastric mucosa of, following injection of labeled sodium sulfate, 23:16242
sulfur-35 uptake by nasal mucosa of castrated, effects of estradiol and testosterone on, 21:39333
sulfur-35-labeled AET uptake by, effects of cysteine and epinephrine on, 22:21551
sulfur-35-labeled cysteamine retention in cytoplasm and nuclei of thymus cells in, mechanism of, 25:32441
sulfur-35-labeled methionine and sodium sulfate distribution in tissues of, following injection, 25:21710
sulfur-35-labeled thiopental metabolism by liver of, isotope dilution analysis of, 24:2557
survival of exposure to shock waves, dose dependency of, 21:28512(R) (DASA-1854)
survival of irradiated, with Yoshida sarcoma following treatment of leukopenia with benzyl alcohol: terpene oil mixture, 21:8873
survival of x-irradiated, following treatment with histamine liberator compound and promethazine, 21:14748
susceptibility to irradiated Fasciola, 24:4700
synkavit uptake by carcinoma of, 22:19384
synthesis of cholesterol by liver of, effects of lithium ions on, 21:41325
synthesis of deoxycytidine in thymus gland of, effects of MEA and mercaptoethanol on, 24:50954
synthesis of DNA in cells of adult and fetal, effects of diurnal variations on, 23:2747(T) (UCRL-Trans-10211)
tantalum-182 metabolism following ingestion, kinetics of, 25:49088
taurine content in urine of, effects of cortisone and methotrexate on, 22:10825 (BNWL-480, pp 55-83)
technetium-99 metabolism in thyroid of, 22:14961
technetium-99 sulfur colloid distribution in tissues of, whole-body scanning of, 25:21530
technetium-99 uptake and accumulation by thyroid of, following intravenous injection in comparison to iodine-131, metastable, 25:8599
technetium-99-labeled pertechnetate in thyroid gland of, factors affecting metabolism of, 21:17956
technetium-99-labeled pertechnetate metabolism in, 22:8451
tellurium toxicity in, 22:6720(T) (TT-1283)
tellurium-127 uptake and retention by, 23:45631
tellurium-127m distribution and excretion in, following ingestion, kinetics of, 25:10949
tellurium-127m distribution and excretion in, following intravenous injection, 25:10950
tellurium-127m sorption from gastrointestinal tract of, following ingestion, kinetics of, 25:10949
temperature monitoring of, design of miniaturized radiotelemetry device for, 21:5738 (Y-1568)
tendon healing mechanisms in, use of tritium-labeled thymidine autoradiography to study, 21:12762
Thoratrast accumulation in reticulo-endothelial system of, 23:26672
thorium dioxide distribution in liver of, following intravenous injection, 23:26885
thorium dioxide distribution in liver of, following intravenous injection, 23:26882
thorium dioxide distribution in tissues of, 25:4442
thorium dioxide retention in lungs of, 25:4442
thorium distribution in blood of, following administration of complex and noncomplex compounds, 24:44410
thorium distribution in bone tissues of, effects of chemical nature of compound and EDTA on, 23:47940
thorium metabolism in tissues of, following intraperitoneal, intramuscular, and oral administration, 25:4441
thorium retention in lungs of, following inhalation of dusts of uranium ores, 21:32598
thorium uptake by lungs of, electromicroscopic study of, 25:4410
thorium-228 distribution in, after inhalation of radon-220, 21:12749(R) (NYO-3086-6)
thorium-228 retention in lungs of, following intratracheal administration, 25:21578
thorium-232 metabolism by, effects of method of administration on, 23:22153(T) (AEC-tr-6944, pp 25-34)
thorium-232 uptake by liver fractions in, 22:51371
Thorotrast and decay product content and distribution in rats following intraperitoneal injection, 24:31811 (ANL-7489, pp 30-3)
Thorotrast content of tissues of, 23:769 (ANL-7360, pp 68-149)
Thorotrast distribution in tissues of young, following intravenous injection, 22:51366
Thorotrast distribution in tissues of, after injection, 21:24579
Thorotrast in, toxicity of injected, 21:24579
Thorotrast sorption by pericardium of, electron microscopy study of, 22:51317
Thorotrast sorption from pericardium of, lymphangiographic study of, 22:51318
thulium-171 distribution and retention in, following intravenous injection of chlorides, 24:34025 (LF-41, pp 130-5)
thymidine monophosphate kinase activity of, effects of actinomycin D on thymidine-induced, 21:22704
thyroid hormone secretion in, iodine-131 determination of rate of, 24:2531 (COO-1758-10)
thyroid metabolism in, effects of malignant tumors on, 21:12780
thyroid removal from, effectiveness of intraperitoneally injected iodine-131 in combination with thyroidectomy for, 24:34549
thyrotropin distribution in tissues of hypothyroid and normal, trace studies of injected, 22:51374
thyrotropin radioimmunoassay in blood serum of, effects of cold exposure on, 24:25413
thyroxine formation in thyroidectomized, use of iodine-131 for detection of, 21:26349
toxicity of AET from Czechoslovakia and United States for, 21:18097
toxicity of aminothiols to, effects of anticonvulsants and hydrocortisone on, 24:7936
toxicity of aminotrichloroethanol in, protective effects of whole-body x-radiation against, 23:50628
toxicity of benzene for, protective effects of α-batylol alcohol and bone marrow lipids against, 22:51849
toxicity of beryllium salts in, 21:10810
toxicity of biscuits made from irradiated eggs to, 22:52123
toxicity of cyanides in, protective effects of thiocystine against, 21:38834(R) (ORO-1637-13)
toxicity of cysteamine to, 21:41448
toxicity of DTPA and EDTA to, effects of metal ions on, 23:24644
toxicity of γ-irradiated chicken meat for, 22:52107
toxicity of irradiated fish to, 22:52123
toxicity of irradiated food to, following ingestion, 22:31306
toxicity of irradiated foods for, following ingestion, 22:47659
toxicity of irradiated fruits for, 22:47650 (NYO-3422-1(Vol.4))
toxicity of irradiated fruits to, 22:52061 (CONF-670945)

toxicity of irradiated mushrooms to, 22:52123
toxicity of irradiated onion diet for, 22:47649 (NYO-3422-1(Suppl.)(Vol.3))
toxicity of lithium fluoride for, 21:45637
toxicity of melphalan to Yoshida sarcomas in, protective effects of pretreatment with cysteine against, 21:34724
toxicity of molybdenum and tungsten chlorides to, 23:14160(T) (TT-67-51409/4, pp 406-11)
toxicity of products of γ-irradiated DDT to, 25:55135
toxicity of thermoluminescent phosphors in, 23:7866 (CONF-680920-, pp 944-50)
toxicity of tritium oxides to, following inhalation, 23:47941
toxicity of tritium-labeled thymidine for, 21:32736(R) (EUR-3455.d)
toxicity of uranyl nitrate for, 22:40554
toxicity of uranyl nitrates in, effects of, on hydroxytryptophan-decarboxylase and monoamine oxidase activities in kidneys, 24:562
transplantation of bone marrow and spleen cells from neonatally thymectomized, into γ-irradiated mice, effects of, on immune reactions, 23:22237
transplantation of γ-irradiated ascites hepatoma cells into peritoneal cavity of, dose-survival curves following, 24:2767
transplantation of irradiated cultured Ehrlich ascites cells into, effects of numbers of cells and radiosensitivity on, 24:34702
transplantation with x-irradiated thyroid glands, effects of propylthiouracil on, 23:50366
trauma induced in, by radioprotective doses of cystamine or cysteamine, 24:12126
treatment of radiation sickness in, review of, 22:51861
treatment of radionecrosis in, using callicrein, 21:4814(R) (EUR-2477.f(Vol.2))
tritium content of body-water of Sedan crater area kangaroo, (E), 25:37512
tritium distribution in fatty acids of, synthesized from labeled glucose and water, 21:20100
tritium distribution in liver of, autoradiographic measurement of, 21:22272
tritium distribution in tissues of, following administration of chlormezanone-incorporated, effects of administration route on, 25:490
tritium exchange in muscle tissue of, effects of health state on, 21:34615
tritium excretion by, following injection of tritium-labeled compounds, 23:38438
tritium labeled tetraphenylporphinesulfonate distribution in tissues of, 22:8447
tritium uptake by chemical fractions of liver in, 22:40572
tritium uptake by liver lipids in, in relation to uptake by nucleic acids following administration of labeled pyrimidines, 24:5991
tritium uptake by Sedan crater site kangaroo, 23:45434 (UCRL-71867)
tritium uptake by, through lungs and skin, 22:51619
tritium-containing luminous materials absorption by gastrointestinal tract and skin of, 25:49079 (NP-18974)
tritium-labeled estradiol autoradiographic localization in brain of, 25:42258
tritium-labeled water metabolism in, use of liquid scintillation counter to determine, 22:430
tritium-labeled water transport in intestines of, effects of nitrogen mustards on, 22:10824 (BNWL-480, pp 1-19)
tritium-labeled-thymidine in DNA in tissue cultures from, loss of, 21:24308
tryptophan oxygenase activity in liver of, effects of nickel carbonyl on cortisone-induced, 22:6216(R) (ORO-3461-9)
tuberculin reactions in skin of, origin of cells in, 23:9874
tumor antibody formation by, effects of hematopoietic tissue transplants on, 22:45712
tumor incidence in, combined effect of dimethyl benzanthracene and strontium-90 on, 22:23609
tumor incidence in, following injection of irradiated blood plasma, effects of hormones on, 22:40829 (ORO-657, pp 18-34)
tumor incidence in, following subcutaneous injection of cells from leukemia-bearing adults, effects of recipient age on, 22:23594 (LF-38, pp 108-12)
tumors of pancreatic islet cells, following administration of 3-methylcholanthrene and x rays, 21:6677
tungsten metabolism in, 22:38212
tungsten-181 metabolism in, following oral administration, 23:4891
tungsten-185 metabolism in, following oral administration, 23:4891
tyrosine aminotransferase synthesis by liver of, effects of glucagon, growth hormone, and insulin on, 22:7955 (ORNL-P-3466)
tyrosine transaminase synthesis in cultured liver tissues of fetal, effects of hydrocortisone on, 22:28289 (ORNL-4100, pp 178-201)
uptake of colloidal thorium dioxide by mast cells of, following intraperitoneal injection, 23:29319
uptake of colloidal yttrium-90 by spermatozoa of, selectivity of, 23:43682
uptake of iodine-131-labeled 6-iodo-2-methyl-1,4-naphthoquinone by tumors of, 23:41224
uptake of iodine-131-labeled oily contrast media by lymph nodes in, effects of injection method on, 24:41944
uptake of pertechnetate by gastric mucosa of, tracer study of effects of vagotomy on, 24:34034
uptake of phosphorus-32-labeled polyphosphates by, effects of chain length on, 21:10728 (TID-23458)
uptake of tritium-labeled testosterone by prostate and seminal vesicles of, effects of hormones on, 24:579
uptake of tritium-labeled thymidine by corneal epithelium of, effects of circadian rhythm on, 21:22287
uranium content, distribution, and retention in organs and tissues of, following administration of ammonium diuranate, 25:23964(T) (AEC-tr-7195, pp 147-52)
uranium elimination from, effects of sulfonamide diuretic on, 23:22276(T) (AEC-tr-6944, pp 678-87)
uranium excretion by, following inhalation of uranium dioxide, 21:22429
uranium fission product clearance from lungs of, 22:8538
uranium metabolism by, following administration of uranyl nitrate, biological constants for, 21:24329
uranium retention by, following chronic inhalation of uranium oxide dusts, 24:48373
uranium retention in lungs of, following inhalation of dusts of uranium ores, 21:32598
uranium uptake by female, from drinking water, effects of, on function of parathyroid and thyroid glands and sexual maturation, 22:51376
ureter reflux in, use of technetium-99-labeled colloidal sulfur to study, 22:28330
use as donor of lymphocytes for study of antigen-induced blastogenesis, 23:35668
use of callicrein for treatment of cutaneous radiolesions of, 21:4815(R) (EUR-2477.f(Vol.3))
use of iodine-131-labeled antigen in, for bioassay of staphylococcal enterotoxin B antisera, 21:3383
use of iodine-131-labeled Rose Bengal for deiodination studies in, effects of diets and thyroxine on, 23:50714
use of irradiated, as recipients for bone marrow from mice for detection of leukemia viruses, 23:47985
use of marrow from, for induction of xenogenic x-radiation chimeras of mice, reversion to host hemopoiesis following, 24:11987
vaccination against malaria, use of x-irradiated Plasmodium berghei as antigen for, 23:38757
vaccination with irradiated Plasmodium berghei, phagocytic activity of reticuloendothelial system following, 25:21612
vasopressin secretion by, use of radioimmunoassay to determine effects of dehydration on, 23:31679
virus-like particles in tumors of, following transplantation of x-radioinduced mammary carcinoma, 23:31951
vitamin A synthesis in liver of, activation method for study of, 21:28376
vitamin B_{12} uptake by intestine of, effects of ethylenediaminetetraacetic acid and metal ions on, 21:22298
weight of hepatomas in, use of gold-198 colloids for determining, 23:35803
x radiation visual perception by, 25:37878(R) (ORO-2903-46)
xenon-133 distribution in tissues of, in vivo determination of, 22:4575
yttrium retention in, effects of biochemical composition of diet on, 25:6612(T) (AEC-tr-7169, pp 137-52)
yttrium-88 distribution and excretion in, following inhalation, effects of stable yttrium on, 24:11926
yttrium-88 distribution and retention in protein plasma in, effects of dilution on, 25:29454
yttrium-88 distribution in tissues of, following inhalation, effects of stable isotope carrier on, 23:31609 (LF-39, pp 136-41)
yttrium-90 distribution in tissues of, following intravenous injection, 21:26350
yttrium-90 inhalation by, dynamics of, 22:8538
yttrium-90 sorption by skeletons in, effects of DTPA on, effects of age and sex on, 24:36692
yttrium-90 sorption by sperm of, effects of, on embryos, selective, 24:2544 (NYO-4039-1, pp 12-16)
yttrium-91 excretion by, comparison of effectiveness of DTPA and EDTA for, 25:32411
yttrium-91 metabolism in, effects of epinephrine, diuretics, EDTA, and phosphates on, 22:12787
yttrium-91 sorption by intestines of, effects of barium sulfate, calcium fluorite, EDTA, espatite-1, lead sulfate, and turfite on, 22:8481
yttrium-91 uptake by bones of, autoradiographic study of, 22:2486
zinc depletion in, following application of DTPA or EDTA, mobilization of zinc from extracellular spaces and liver to compensate for, 23:45783(T) (AEC-tr-7091)
zinc excretion in urine of, effects of cyanoferrates on, 22:40521
zinc excretion in, effects of DTPA and EDTA on, 23:24549
zinc metabolism in, review of, 25:51980
zinc sorption and metabolism in, effects of DTPA on, 23:45782(T) (AEC-tr-7088)
zinc-65 accumulation in body of, effects of stable carrier on, 25:21573
zinc-65 distribution and retention in, effects of calcium and zinc content of diet on, 24:46567
zinc-65 distribution in bones, hair, and organs in, scintillation measurements on, 25:44760
zinc-65 distribution in prostate and tissues of, effects of castration and hypophysectomy on, 24:4551
zinc-65 distribution in subcellular fractions and tissues of, following ingestion, 24:34039
zinc-65 elimination from, use of DTPA for, 23:22182(T) (AEC-tr-6944, pp 657-69)
zinc-65 excretion by, effects of zinc disodium EDTA on, 21:20206
zinc-65 excretion by, in field and laboratory environments following oral administration, effects of starvation on, 21:6413
zinc-65 excretion in, effects of DTPA and EDTA on, 23:24549
zinc-65 metabolism and retention in, following oral administration and injection, effects of vitamin D on, 21:14577
zinc-65 metabolism in carbon tetrachloride-damaged liver of, cytological study of, 21:28368
zinc-65 metabolism in carbon tetrachloride-damaged liver of, 21:28556
zinc-65 metabolism in, effects of age and sex on, 22:30941
zinc-65 metabolism in, effects of cirrhosis on, 22:45385
zinc-65 metabolism in, effects of corticosterone on, 22:28384
zinc-65 metabolism in, effects of corticosterone, adrenalectomy, and administration of stable zinc on, 22:28383
zinc-65 metabolism in, effects of lactation and pregnancy on, 23:35602 (ORAU-107, pp 242-5)
zinc-65 metabolism in, effects of route of administration on, 25:21571
zinc-65 removal from, use of DTPA and EDTA for, 24:550(T) (AEC-tr-7090)
zinc-65 retention in tissues of, following intraperitoneal injection, effects of age on, 24:23079 (CONF-690501-, pp 207-16)
zinc-65 uptake and distribution in endochondral growth sites in bones of, 25:26611
zinc-65 uptake and distribution in organs and tissues of, 25:26611
zinc-65 uptake by bones of, autoradiographic study of, 22:2486
zinc-65 uptake by liver, intestine, and pancreas in, effects of pancreatic injury on, 23:50699
zirconium-95 distribution in, following subcutaneous injection, autoradiographic determination of, 21:34570
zirconium-95 metabolism following injection as citrate, effects of particle size on decontamination following, 25:46675 (CEA-R-4176)

RB (Vinca, Yugoslavia)
    see Reactors, Research
RB-1 (Reattore Bologna No. 1, Italy)
    see Reactors, Research
RB-2 Reactor
    see Reactors, Research
RBE
    see Relative Biological Effectiveness
RC-1 (Reattore Casaccia No. 1, Italy)
    see Reactors, Research
RCPA Reactor
    see Elk River Power Reactor
RDX
    see s-Triazine, Hexahydro-1,3,5-trinitro-
RE-775
    see DIDO Reactors
REACTION MECHANISMS
    (Limited to chemical reaction mechanisms.)
    see also High-Temperature Reactions
    see also Organic Syntheses
    see also Photochemistry
    see also Photosynthesis
    see also Solid State Reactions
    see also Szilard-Chalmers Reactions
  analysis of diffusion-controlled and exchange, 24:33596(R) (RLO-1310-16)
  analysis of, design of bio-mathematical models for, 22:4564 (N-67-18203)
  book: Annual Review of Physical Chemistry, 22:2073
  book: Isotope Effects in Chemical Reactions, 25:37354
  book: Kinetic Isotope Method and Its Applications, in Hungarian, 22:50952
  book: Progress in Reaction Kinetics. Vol. 3, 22:4145
  book: Pulse Radiolysis, 24:252
  book: Radioactive Isotopes and the Organism, 24:573
  book: The Mechanism of Radioinduced Reactions, in Russian, 23:4708
  calculations for chemical transients produced by pulsed electron beam, 21:38957 (ANL-7327)
  conference on, 23:11524
  conference on, Stockholm, Sweden, Aug. 28-Sept. 2, 1967, 23:21696
  description of reversible photochemical, in radiation damage repair, 21:22398
  donor acceptor interaction in isotope separation by chemical exchange, role of, 21:6002(T) (ORNL-tr-1478)
  electron paramagnetic resonance studies on, 24:7423(R) (COO-294-9)
  equation for, in proton transfer reactions, 23:2278
  equipment for thermogravimetric investigation of, derivative computer, 24:7377 (DP-1211)
  hot atom reactions in gas-phase, 22:4173
  isotope effects in, role of wave properties of nuclei in, 25:34587
  isotope effects on, 21:17616
  isotope effects on, 22:14513 (BNL-50057, pp 60-78)
  isotope effects on, effects of temperature on, 25:10549
  kinetics in, representation of, as trajectories in concentration space, 22:22897 (LA-3875)
  kinetics of radioinduced chain reactions in flow systems, effects of mixing on, 23:26264 (BNL-12519)
  kinetics of, in uv-induced dimerization of orotic acid in aqueous medium, effects of oxygen content and pH on, 21:20099
  measurement by ESR spectroscopy, 23:24070
  models for, use of isotope effects for evaluation of, 22:87
  oxidation-reduction, in solution, 22:2019 (BNL-50070)
  radioinduced, system for induction of, 21:15965(P)
  research progress on, 21:40813(R) (CALT-532-15)
  research progress on, 22:1916(R) (COO-958-12)
  review on recoil ion reactions in solids, 21:21997
  scattering in, optical model interpretation of elastic, 22:43934
  simulation of defect reactions in fcc crystal lattices, computer, 22:48147(T) (AERE-Trans-1103)
  statistics of, in heterogeneous systems, 24:18806(T) (BNL-tr-319)
  tracer studies for development of new chemical processes, 22:14723
  use in chemical analysis, review on, 22:25290
REACTIVITY
  accident tests in oxide-fueled SPERT-3 reactor, comparison of CHIC-KIN and PARET calculations of, 23:4281
  accidental additions of, effects on EVESR safety, 21:7879(R) (GEAP-5269)
  accidents in HFIR associated with addition of, discussion of, 21:23724 (ORNL-3573)
  accidents in Siloe and Osiris, effects of, 21:27816

accidents in swimming-pool reactors, calculation of, 21:27818
analysis in multi-region fast reactors, neutron-balance method for, 21:10166
analysis in square water-uranium oxide (UO$_2$) lattices by one-velocity diffusion approximation, (E/T), 22:22878
analysis in thoria—urania lattices, computer codes for, 21:15764 (CONF-660221-, pp 287-90)
analysis of Doppler coefficient for fast reactors, 21:19344 (ANL-7269)
analysis of HWOCR, methods for, (T), 21:7910
analysis of reactor, testing of on-line digital auto- and cross-correlation for, 23:2149
analysis of thermal reactors, mathematical method for, 21:19386 (RT/FI-(66)21)
analysis of, in accidents in water reactors, 21:15727
analytical model for calculation of SEFOR, 21:35563 (ANL-7320, pp 746-57)
background counts in Rossi-α uncorrelated term, analysis of time-dependent, (E/T), 22:42562
balances at power for MSRE, 21:23612(R) (ORNL-4037)
behavior of pressurized water reactor, calculation of transient, 23:40331 (BMwF-FBK-69-14)
blanket optimization of 1000 MW(e) steam-cooled fast breeder reactor, alteration of 26-group-ABN-set for few-energy-group, (T), 22:44864
booster fuel rod effects on CANDU—BLW lattice mockup in ZED-2, 21:32003 (AECL-2689)
buildup in Latina Power Reactor, long-range, 21:27764
burnable poison effects on Fort St. Vrain Power Reactor Unit 1, calculation of, 23:4167(R) (GA-7939)
burnable poison effects on Fort St. Vrain Power Reactor Unit 1, calculation of, 23:4169(R) (GA-8038)
calculation by digital techniques, optimum theoretical conditions for, 23:21548 (CEA-R-3691)
calculation by space independent kinetics equations, GAPOTKIN computer program for, 22:39770 (GA-8204)
calculation during fuel density oscillations, effects of delayed neutrons on, (T), 25:10305 (IAE-1955)
calculation for critical systems of integral, technique for, 22:12146
calculation for enriched-uranium assemblies using Monte Carlo method, (T), 21:8106
calculation for infinite lattice cell as function of time, PINOCCHIO code for, 23:37688 (EUR-4231)
calculation for loosely coupled reactor systems, (T), 21:19365 (LA-DC-8511)
calculation for reactor cores with cylindrical voids, formalism for, 21:29835 (RT/FI-(66)44)
calculation for reactor lattice cells, computer program for, 21:46643(R) (ORNL-4134)
calculation for stable and transient periods, Nordheim equation in P$_1$-approximation for, 25:3924 (CNAEM-73)
calculation for uranium-233 critical assemblies, testing of cross section sets by, 23:19247 (GAMD-8067)
calculation from measured reaction rate and cross section, 21:35543 (AEEW-R-512)
calculation from solution of neutron transport equation, using Monte Carlo method, (T), 22:5712
calculation in natural uranium and graphite lattices of, zero reactivity method for, (E/T), 22:10074 (EUR-3637)
calculation in reactor homogeneous zones of integral of, (T), 24:43847
calculation in square lattices, Dancoff correction effects on, 22:12085 (BNWL-472, pp 3.1-33)
calculation method adequacy for water-moderated reactors, 21:38479
calculation of 1000 MW(e) liquid sodium cooled fast breeder reactor, effects of burnup and fuel cycle management on, (T), 24:4043
calculation of α_0, use of pulsed source method for JEN-2, 22:12149
calculation of bare pulsed neutron exponential pile, DANNY computer program for, 24:7208
calculation of cell transport kernel, THERMOS/BATTELLE computer program for 30 element, 23:7382 (BNWL-516)
calculation of coefficient distributions, using multigroup perturbation theory, 21:19361 (KAPL-P-3186)
calculation of coupled core reactor, description of on-line analog computer system for, 24:11171 (FMRB-14/69)
calculation of coupled core reactor, two group equations for, (T), 24:5567
calculation of coupled reactor, perturbation method for multigroup, (T), 23:24008
calculation of critical assembly, measured by pulse—source methods, 21:8057
calculation of critical state, La Salle theory for Liapounov kinetic equation, (T), 23:6039
calculation of Doppler coefficient effects on stability of fast pulsed reactor, (T), 23:34902
calculation of Doppler effects on, use of multilevel formalism for, (T), 24:11295
calculation of double coupled core reactor transient, (T), 24:5568
calculation of double coupled core reactor, Ziya Akkasu method for, (T), 24:5566
calculation of effective multiplication factor in heavy-water-moderated lattice, 21:23621 (UJV-1736)
calculation of enriched uranium fueled heavy water-moderated reactor, Keepin and Cox kinetic equations for, 22:24965 (IS-1808)
calculation of fast and thermal reactors, error analysis for Theta 1, Theta 2, Theta 3, and trapezoidal integration, (T), 23:15708 (BNWL-940)
calculation of fast pulsed SORA reactor, (E/T), 24:20609
calculation of fast reactor, description of multimode analysis for, (T), 24:22492
calculation of fast reactor, EDEN computer program for effects of heterogeneity on, 23:33041 (RT/FI-(69)1)
calculation of fast reactor, effects of design characteristics on, 24:47825
calculation of fluctuations in power reactor, (E/T), 24:9162
calculation of Fort St. Vrain Power Reactor Unit 1, effects of accidents on variation, 23:4170(R) (GA-8270)
calculation of Fort St. Vrain Power Reactor Unit 1, effects of accidents on variation, 23:9117(R) (GA-7453)
calculation of fuel movement effects on uranium oxide (UO$_2$)-fueled compact-core rocket reactor, computer program for, (T), 22:46998 (N-68-23894)
calculation of heavy water moderated natural uranium fueled fog cooled power reactor, effects of core configuration on, 24:4040 (CISE-R-116)
calculation of heavy water-moderated 63-rod natural uranium critical assembly, GYMEA-WDSN computer programs for, (T), 22:50787 (AAEC/TM-461)
calculation of heavy water-moderated natural uranium carbide-fueled exponential pile, effects of detector position on, (E/T), 23:4385
calculation of high temperature gas cooled reactor, comparison of one and two dimensional codes for, 24:16304 (BNL-50117, pp 40-54)
calculation of large boiling power reactor, methods for and experimental results of, 24:16156 (BNL-50117, pp 1-36)
calculation of leakage effects on bare and reflected spheres, 24:7353(R) (BNWL-1224)
calculation of liquid metal cooled fast power reactor, computer program for feedback control theory, 23:34899 (ANL-7529)
calculation of LMFBR two dimensional perturbation, BISYN—PERT computer program for, 24:13636 (GEAP-10046)
calculation of modular reactor, coupled fission mode approach for, (T), 24:20631
calculation of MPRE transient condition, (T), 23:28588 (ORNL-TM-1611)
calculation of MSRE balance, during operation, 21:38513
calculation of multi-charge core effects on RBI research reactor, use of neutron spectra for, 22:47015(T) (N-68-24522)
calculation of multizone reactor, analytical method for, 21:21733
calculation of multizone reactor, variational method for, (T), 21:21731
calculation of negative, use of external neutron source multiplication in one-point reactor kinetic model for, (T), 23:11343
calculation of optimum power reactor, (T), 24:5509
calculation of parameters for Connecticut Yankee Power Reactor first core, (T), 23:11123 (NYO-3250-27)
calculation of Peach Bottom Reactor core, use of on-line analog computer for, 21:44832 (GA-8104)
calculation of pebble-bed reactor effective, uncertainties in, (E/T), 24:16171
calculation of perturbations and excursions of, methods for, 25:8095 (BNWL-SA-3093(Vol.2), pp XI.1-33)
calculation of plutonium-fueled thermal reactor, effects of cross section uncertainties on, 22:20782 (BNWL-SA-1501)
calculation of power reactor shutdown, use of noise analysis techniques for, 24:47821 (CONF-680980-, pp 87-101)
calculation of power reactor, description of computer programs for, (T), 22:32742 (BNWL-738)
calculation of prompt moderator heating feedback in SPERT 3 E-core, (T), 23:17250(R) (IDO-17287)
calculation of PRTR plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fuel elements, radiation effects on, 23:6020(R) (BNWL-887)
calculation of pulsed fast reactor reflector worth, TIMDC computer program for, 23:47241 (CNM-R-2(Vol.1), pp 488-508)
calculation of pulsed reactor prompt critical power and temperature transients, two-dimensional phase space, (T), 22:48744
calculation of pulsed reactor, computer program for, 25:26072 (UJV-2381.RF.)
calculation of pulsed reactor, methods for, (T), 24:7212
calculation of reactor nonlinear oscillations and stability for two feedbacks, 24:50227
calculation of reactor periodic input, quasi-periodic vector solutions for integration of point-reactor kinetics equations, (T), 23:23996 (BARC-371)
calculation of reactor spatially dependent, crosscorrelation method for pseudorandom signal, (E/T), 24:4156
calculation of reactor static, errors in kinetic phenomena methods for, (T), 23:24007
calculation of reactor, comparison of analog and digital computer simulators for, 23:52476
calculation of reactor, computer program for two-dimensional four-group partial neutron buckling, 23:6036 (KURRI-TR-33)
calculation of reactor, evaluation of rod-drop measurements for, (E/T), 24:38624
calculation of reactor, quasistatic method for spatial, (T), 24:16274 (BNL-50117, pp 192-212)
calculation of reactor, statistical weight factor for effects of xenon-135 on, (T), 24:52992(T) (LIB/Trans-303)
calculation of reactor, using EXTERMINATOR-2 code, 21:25631 (ORNL-4078)
calculation of Savannah River Production Reactors mixed lattice shutdown, effects of samarium-149 and xenon-135 on, 24:22478 (DPSPU-69-30-10)
calculation of SGHW-type reactor, analysis of METHUSELAH—AIMAZ method of, 22:30319
calculation of SGHWR, EQUICORE computer program for, 24:5517 (TRG-Report-1808)
calculation of single rod natural uranium fueled heavy water moderated reactor, performance of CAROL and DUMLAC computer programs for, (E/T), 24:16167
calculation of small reflected cylinder shaped fast critical assemblies, self consistent one dimensional, (T), 24:16289
calculation of SNAP 9 type S8DR, (E/T), 24:11286 (AI-AEC-12864)
calculation of SORA dynamics and control system analysis from mean value kinetics equations, (T), 24:16239 (EUR-4408)
calculation of space dependent, weighted residual methods for, (T), 24:2065 (ANL-7565)
calculation of steel rod- and water-reflected water-moderated uranium oxide (UO$_2$)-fueled NORA mock-up of bare core reactor, one-dimensional two-group diffusion model for, (T), 22:42377
calculation of subcritical, from steady-state noise measurements, (T), 25:23407
calculation of subcritical, from steady-state noise measurements, (T), 25:23409
calculation of Tarapur Power Reactor, 24:16095
calculation of THOR reactor, log scaled simulator for, 23:52475
calculation of three-dimensional bare and reflected fissile systems, use of Monte Carlo KENO computer program for, 22:50845 (Y-DD-23)
calculation of two loosely coupled cores, methods for, (E/T), 23:17278
calculation of uniform material-moderated and -reflected reactor, two-group approximation for heterogeneous analysis of, (T), 22:37559 (ITEF-563)
calculation of uranium oxide (UO$_2$) fueled thermionic converter drum type control element, 24:7257
calculation of uranium—water heterogeneous reactor, two-group diffusion method for, (T), 22:42494
calculation of uranium—water heterogeneous reactor, two-group diffusion method for, (T), 22:42493
calculation of variations in, perturbation theory for, (T), 23:49653 (FEI-136)
calculation of xenon-135 effects on Kyoto University Research Reactor startup and shutdown, 23:4313 (KURRI-TR-46)
calculation of Yankee Core I, using TURBO-ZIP code, 21:34116 (WCAP-6077)
calculation of, EXPANDA 2 computer program for, 21:21639 (JAERI-1118)
calculation of, for heavy water—thorium—uranium lattices using METHUSELAH code, 21:5695 (TID-23415)
calculation of, for plutonium—uranium oxide fuel in water reactors, 21:5603 (BNWL-305)
calculation of, in perturbed square reactor lattices, 21:5639
calculation of, in PM-type cores, 21:17451 (HIT-3583-43(Vol.2))
calculation of, method for three-dimensional reactors, (E/T), 21:7911
calculation of, simultaneous differential equations for, 21:19397
calculation of, using positive-element matrices, 21:5696
calculation using bilinear group-constant averaging, 21:42524 (RPI-328-97, pp 35-95)
calculation using first-order perturbation theory in EXTERMINATOR-2 diffusion program, 21:15468 (ORNL-TM-1741)
calculation using Monte Carlo method, computer program for, 22:20931 (AHSB(S)R-146)
calculation using multigroup diffusion theory, computer program for solving one-dimensional equations for, 22:15916 (GA-7543)
calculations for assemblies with hydrogenous moderators and reflectors, using Monte Carlo method, 21:31681 (K-DP-2252)
calculations for converter reactors, 21:31994(P)
calculations for fast reactor sodium-void, effects of thin slab heterogeneity on, 21:35682 (ANL-7320, pp 377-85)
calculations for fast reactors, polarity spectral method for error analyses for, 24:7287
calculations for graphite moderated uranium or plutonium—uranium fueled lattices, WIMS code for, 21:19478
calculations for heterogeneous reactor lattices using LASER-code, 21:21689
calculations for MSBR, 21:40572 (ORNL-TM-1946)
calculations for Phoenix fuels for marine reactors, 22:14289 (BNWL-635)
calculations for plutonium fueled light water reactors, 21:19347 (BNWL-SA-926)
calculations for pulsed reactors, 23:4386
calculations for reactors, development of analytical expressions for, 23:37480
calculations for reactors, ETA BETA program for one-dimensional two-group long-term, 24:5561 (CISE-R-148)
calculations for three-dimensional arrays of subcritical components of plutonium-239, uranium-235 in cubic geometry, Monte Carlo, 23:7281(R) (ORNL-4280)
calculations for two-core delayed critical assemblies, use of Monte Carlo method for, 23:4339
calculations for unreflected unmoderated subcritical assemblies, use of prompt neutron decay data for, 22:33004
calculations for various STSF-1 core loadings, 22:30302(R) (GA-8377)
calculations for VERA, ZEBRA, and ZPR-3 using multigroup methods, 21:46954
calculations for ZPR-3 Assembly 48 and ZPR-6 Assembly 2 using two cross-section data files, 23:6031
calculations for, in MH-1A, 21:12216 (ORNL-TM-1654)
calculations in Godiva, effect of group-constants averaging procedures for, 21:40682 (RPI-328-99)
calculations in heavy water lattices, PROCELLA code for, 22:37555 (EUR-3921)
calculations in light water cell, using LATREP, POOOF, and METHUSELAH II codes for, 21:21622 (AECL-2649)
calculations including space-dependent resonance self-shielding in soft-spectrum fast assemblies, effect of heterogeneity on, (T), 22:35646

calculations of critical assembly and exponential piles, space and time dependent kinetics for, (E/T), 24:4097
calculations of heterogeneous systems, use of pulsed neutron experiments for correction of, (E/T), 24:24915
calculations of HFIR, by algorithm for on-line digital computer control system, 24:24879 (ORNL-TM-1473)
calculations of reactor, comparison of weighted residual methods for, (T), 24:24914
calculations of reactor, effects of digital Kalman filter on neutron flux measurements for, (E/T), 24:24907
calculations of reactor, error analysis of prompt-jump approximation for, (T), 25:34434
calculations of, comparison of few-group with conventional, (T), 22:5718
calculations of, use of computer code ANDREA for, 21:21741
calculations on heavy water-moderated plutonium—thorium—uranium fueled lattices, PLUTHARCO program for, 21:17439 (EUR-3141.e)
calculations using Monte Carlo method, GEM computer program, 21:25615 (AHSB(S)R-105)
calculations using SUPERNOVA computer code, 21:35542 (AEEW-M-750)
calibration by digital analysis of neutron flux transients, (E/T), 22:35681
change due to perturbations of material cross sections in a single region of a reactor, calculation of, 21:25626 (IA-1105)
change of, temperature effects on, 21:27759
changes for Calder and Chapelcross reactors, long-term, 21:27761
changes in fast fused-salt reactors, 21:27712
changes in HFIR, mathematical model of, 21:4380 (ORNL-TM-1472)
coefficient calculations for plutonium fueled light-water reactors, 21:30103(R) (BNWL-400)
coefficient determination for fast power reactors, synthesis method for determining, 22:32800
coefficient determination for reactors, use of transport perturbation theory in GAPER code for, 22:44817 (GA-8667)
coefficient determination of stainless clad LOFT core, 21:27680 (IDO-17235)
coefficient for coupled core of Iowa State UTR-10, cross-spectral density measurement of, 21:40684
coefficient measurements in SEFOR, description of oscillator tests for, 21:35557 (ANL-7320, pp 456-74)
coefficient measurements in ZPR-3, 21:42725(R) (ANL-7357)
coefficient of, design of fast reactor having negative, 21:23696(P)
coefficient of, design of fast reactor having negative, 21:23674(P)
coefficients for BWR and PWR, effects of use of plutonium fuel on, 22:22658 (BNWL-475)
coefficients for critical reactors, theorem for integral, 22:20933 (FEI-77)
coefficients for EBR-2 with reduced coolant flow, analysis of static power, 23:11187
coefficients for EBR-2, tabulation of power-defect, temperature, and expansion and compaction, 23:49581 (ANL-7410, pp 73-227)
coefficients for homogeneous reactors, energy-dependent kinetic equation analysis for volume related integral, (T), 22:42385(T) (ANL-Trans-645)
coefficients for large fast plutonium-fueled sodium-cooled assemblies, measurements and interpretation of, (E/T), 23:6030
coefficients for large fast sodium-cooled power reactors, evaluation of, 22:46958
coefficients for reactors, analysis of asymptotic stability with positive moderator, 23:4436
coefficients for reactors, use of synthesis techniques for calculation of three-dimensional, 22:16328
coefficients for Saxton, comparison of calculated and measured, 23:17211 (DOCKET-50146-6)
coefficients in dilute plutonium-fueled critical assemblies, comparison of calculated and measured absolute, 23:19534
coefficients in reflected multiregion two-dimensional systems, GAPER-2D transport perturbation theory code for, 24:36079 (GA-10103)
coefficients of fast power reactors, (T), 24:38496
coefficients of steam-cooled fast breeder reactors, 22:5921 (EURFNR-398)
coefficients of, calculation of power reactor steady state, 22:1756 (EUR-3013)
coefficients of, Perturbation Study Program calculations of, 21:7881 (KAPL-M-6576)
compensation by use of laminar burnable poisons in reactors, 21:34125
computation of, use of on-line analog system for, 23:2725
contour plotting of GAMBLE-4 groupwise fluxes and power distribution, ICON-4 code for, 21:7866 (GA-7017)
control by buoyant reflector and fuel assemblies in boiling water reactors, 21:44899(P)
control by in-core absorbers in Latina Power Reactor, 21:35570 (EUR-3487.i)
control by mass transport of hydrogen between zirconium hydride beds in reactors, effectiveness and load-following capabilities of, 23:15624
control by neutron magnetic scattering effects in iron slabs, (T), 25:48346 (RT/FI-(71)14)
control by pressurized helium-3 in reactor core, 21:38461 (NASA-TN-D-4093)
control by use of hydrogen, 21:38580
control by volatile poison circulation through reactor core, poison distillation and recirculation process for, 23:23880(P)
control in constant-level heavy water-moderated reactors, use of helium bubbles for, 22:39831(P)
control in HWOCR, systems development for, 21:42724(R) (AI-CE-56)
control in pressure tube type water cooled reactors, use of water inventory for, 23:47178(P)
control in processing of uranium—zirconium alloy fuel, 22:21155 (IN-1173)
control in pulsed reactors by measurement of subcritical state, (T), 22:18595
control in reactors by hydrogen diffusion into porous beds of zirconium hydride, (E/T), 22:16331
control in reactors, identification of parameters for on-line adaptive, (E/T), 22:7933
control in space electric-nuclear power systems, liquid, 22:6087
control of boiling power reactor, analysis of prompt load characteristics by extraction flow, (E/T), 23:49556
control of coupled-reactor, method for, 21:23671(P)
control of DIDO Reactor DMTR, effects of boron-10 loaded fuel elements on, 24:5550 (TRG-Report-1896)
control of fast reactor Doppler, perturbation methods for optimum beryllium distribution for, (T), 23:49666
control of fast, device for SEFOR excursion experiments, 21:19357(R) (GEAP-5301)
control of Hanford Production Reactors (N), physics calculations and measurements for minimum safe, 23:52438 (DUN-SA-120)
control of heavy water-moderated reactor, description of double poison solution variation with burnup for, 22:25044(P)
control of high-temperature reactor, using burnable poisons, 21:30220(P)
control of large reactor, physics calculations and measurements for minimum safe, 23:52438 (DUN-SA-120)
control of pressurized-water reactor, effects of chemical shimming on optimum, 23:6013
control of reactor, by fuel element positioning, 21:15713(P)
control of reactor, feedback optimization for, (T), 21:14049(R) (NASA-CR-70862)
control of reactor, using neutron-absorbent gases, 21:15808(P)
control of reactor, using variable moderator-to-fuel ratio, 21:15716(P)
control of temperature feedback point reactor model, description of variational synthesis technique for optimum, (T), 22:39933
control of TRIGA reactor, effects of strong absorber insertion and removal on, 23:52419
control of, by thermal expansion of fuel elements, 21:8167(P)
control of, calculation by second-order one-group Perturbation Theory, 21:5677 (AE-250)
control of, design of system in reactor for, 21:23673(P)
control of, effects of boric acid on, 21:13992 (WCAP-3269-58)
control of, temperature dependent rupture disk in fuel element for, 21:38773(P)
control of, use of absorbers in thermal reactors for, 21:30272
control rod effects on, Dancoff corrections for, 21:40542 (BNWL-CC-1099)
control rod measurements at AVR spherical-pile, 21:25655
control rod worth calculations of, method using diffusion codes, 21:27699
control rod worth measurements in NORA, grey, 22:16283(R) (IAEA-3498-21)
control system for heavy water moderated reactor, description of moderator level regulating, 24:4045(P)
control system for power reactors, description of multi-tube varying-level boric acid-filled zirconium alloy tube, 22:35518(P)
control systems for HWOCR, 21:23587(R) (AI-CE-31)
coolant loss effects on urania—water lattices, in ZED-2, 21:35666 (AECL-2691)
coolant void effects on, in heavy water-moderated uranium oxide (UO$_2$)-fueled lattices, (E/T), 22:32976(R) (MIT-2344-12)
coolant voids coefficient of, analysis of Spert-I, 21:42831
core heterogeneity effects on, measurement in Assembly 6 of ZPR-6 of, 23:49581 (ANL-7410, pp 73-227)
core-displacement coefficient of, measurement of pulsed fast reactor, 23:4333
coupling calculations for enriched uranium cylinders, 23:7281(R) (ORNL-4280)
coupling coefficient determination in UTR-10, use of cross-spectral density technique for, 22:14271
coupling coefficients for fast coupled cores, analytical techniques for calculating, 22:53348
coupling effects for systems of reactors, derivation of point reactor kinetics using, 21:40607
coupling effects in clustered rocket reactors, 21:40659
decrement in EBR-2, analysis of linear components of, 23:37657
dependence of correlation amplitude in Rossi-α technique, determination of, 23:9233
description of VIPER Pulsed Fast Reactor, 23:9210
determination by Rossi—α measurement, evaluation of SN ratio for, 22:22843
determination for non-moderating samples in RANA reactor, two-dimensional calculation method for, 23:2128 (RT/FI-(68)23)
determination for subcritical reactors, neutron spectral correction to Garelis-Russell formula for, (E/T), 22:18567
determination in subcritical solution reactors, use of pulsed-neutron technique for, 22:6112
determination in undermoderated plutonium slabs, effects of composite reflectors on, (T), 24:38635
determination in uranium—water lattices, significance of effective fraction of delayed neutrons in, (E/T), 22:25104
determination of factors affecting HWOCR, (E/T), 21:7925
determination of fast and thermal reactor, using radiation detector cross correlation, 21:23630
determination of negative, by transfer function measurement in subcritical reactor, 22:30322
determination of negative, pulsed-neutron techniques for, 21:13972 (GAMD-7352)
determination of pulsed, analysis of area-ratio method for, (T), 25:57185
determination of shutdown, auto- and cross-spectra methods for, 23:4406 (RISO-M-791)
determination of subcritical, use of californium-252 source in source-jerk, 25:41533
determination of, by adjoint flux, (T), 21:7854 (ANL-7189)
determination of, model for simplification of meters for, (T), 22:18586 (CONF-661056-1)
determination of, model for simplification of meters for, (T), 22:18594
determination of, neutron counting statistics for, 21:25723
determination of, reactor experiments for, 21:46957
determination of, validity of concept for, (T), 25:51234 (JAERI-13707)
determinations for fast converter reactors, effects of sodium voiding on, 22:32734 (ANL-7310, pp 137-248)
determinations for small bare fast assemblies, synthetic approach to three-dimensional transport theory for, 22:32981
determinations for subcritical reactors, space-energy techniques for, 23:2117
distribution analysis of, description of Garelis-Russell, Gozani, and pulsed neutron methods for, (T), 22:35703
distribution in 1000 MW(e) two-zoned fast reactor, effects of fuel enrichment and composition on radial, (E/T), 22:35468 (PNR/SETR-R.-010)
distribution in Fort St. Vrain Power Reactor Unit 1, effects of refueling sequence on, 24:22381(R) (GA-9720)
distribution in pulsed reactors, calculational methods for, (T), 24:52991 (LA-4505)
distribution in reactor core, effects of gross power tilt allowance on, (T), 22:30366
distribution in uranium oxide (UO$_2$) fueled thermionic converter, calculation of optimum, (T), 24:7256
distribution of liquid sodium cooled fast reactor, effects of fuel element deformation on, 24:18650 (KFK-964, Sect. 3.1-15)
distribution of Na-1 Reactor core, effects of subassembly bending on, (T), 23:11179(T) (EURFNR-542)
distribution of, effects of reactor control rod vibrations on, (T), 25:28835
Doppler coefficient determination in fast reactors, use of transmittance measurements for, 23:52325(T) (JPRS-48331, pp 280-300)
Doppler coefficient for a sodium cooled stainless steel clad uranium oxide (UO$_2$)—plutonium oxide (PuO$_2$) system, effects of statistical variances, 23:49581 (ANL-7410, pp 73-227)
Doppler coefficient for carbide fueled fast power reactor, statistical uncertainty in calculations of, (T), 24:24813
Doppler coefficient in fast reactor, multigroup diffusion methods for, 21:27733
Doppler coefficient measurement in cryogenic temperature range, 21:35552 (ANL-7320, pp 341-4)
Doppler coefficient measurements for heavy elements in fast neutron spectrum, 21:35551 (ANL-7320, pp 334-40)
Doppler coefficient measurements for thermionic reactors, conceptual design of critical assembly for, 22:48728 (GA-7472)
Doppler coefficient measurements in fast spectra, 25:51030(R) (NAA-SR-12492)
Doppler coefficient measurements in SEFOR by subprompt critical excursions, (T), 21:35711 (EURFNR-315)
Doppler coefficient of, calculations for neutron absorption at isolated resonances, (T), 22:44581
Doppler coefficient of, method for determination of, (E/T), 22:30155(R) (NAA-SR-12296)
Doppler coefficients calculation method development based on experimental measurements, 21:40564(R) (NAA-SR-12395)
Doppler coefficients for fast breeder reactors, review of methods for calculating, (T), 23:6001
Doppler coefficients for fast reactors, effects of uranium dioxide crystalline binding on, 21:34078 (BNWL-442)
Doppler coefficients for fast reactors, isolated and strongly overlapping resonance region calculations of, 23:21552
Doppler coefficients for fast reactors, methods for calculation of, 24:22481(T) (EURFNR-697)
Doppler coefficients for fast reactors, methods for calculation of, (T), 24:4127 (KFK-983)
Doppler coefficients for MCR-type cores, (T), 22:32929 (NDA-2143-13)
Doppler coefficients for reactors, Monte Carlo calculation of multiregion hot-cold interference effects on, 23:49581 (ANL-7410, pp 73-227)
Doppler coefficients for uranium carbide and uranium dioxide at high temperature, measurement using temperature-cycled reactivity oscillation, 21:42611 (NAA-SR-12501)
Doppler coefficients measurements in fast reactors, 21:40564(R) (NAA-SR-12395)
Doppler coefficients of fast reactors, Monte Carlo method for calculating, (E/T), 24:28999
Doppler coefficients of, calculation using statistical treatment of neutron absorption in unresolved resonance region, (T), 22:32455
Doppler coefficients of, for tungsten and tungsten isotopes, 21:33956 (AI-67-93)
Doppler coefficients of, method for calculating, 22:22529 (UJV-1932)
Doppler coefficients of, methods development for calculating, (T), 22:39551 (RPI-328-123, pp 39-52)
Doppler effect calculations in fast reactors, Monte Carlo code for, 22:35720

Doppler effect in critical assemblies of fissile materials, measurements and data analysis for, (E/T), 23:5782
Doppler effect measurements in Assembly 23 of ZPR-9, comparison of calculated values with, 23:49581 (ANL-7410, pp 73-227)
Doppler effect measurements in fast ZPR-3, effects of heating on, 22:33037
Doppler effect measurements in MSCA coupled fast-thermal core, 21:35712 (GEAP-4680)
Doppler effect on 1000 MW(e) liquid sodium-cooled fast reactor, (T), 22:18601
Doppler effect on fast breeder reactor, Monte-Carlo, perturbation, and successive-K analysis of, 22:18514
Doppler effect on fast reactor, analysis of, (E/T), 22:18513
Doppler effect on fast reactor, perturbation analysis method for, 22:18510
Doppler effect on large fast reactor, calculational methods for, 22:18508
Doppler effect on uranium fueled fast and thermal reactor, calculation and measurement of, 24:50086 (CEA-R-4035)
Doppler effects on large fast reactor, 22:18569
Doppler effects on Prototype Fast Reactor, 22:18509
Doppler effects on, analysis of conditional variances for, (T), 24:52998
Doppler measurements in fast neutron spectrum, techniques for, 23:1991(R) (AI-AEC-12680)
Doppler measurements in fast spectrum at 2000°K on uranium-238 and refractory metals, 23:4187
Doppler measurements in uranium oxide (UO_2) fueled ZPR-6 and ZPR-9, 24:47818 (ANL-7610, pp 61-258)
Doppler measurements in zoned fast Assembly 18 of ZPR-9, temperature effects on, 23:49581 (ANL-7410, pp 73-227)
Doppler measurements in zoned fast critical assemblies, 21:38685
Doppler measurements on uranium (235 and 238) and plutonium effects in fast critical assemblies, 21:38684
Doppler temperature coefficient of homogeneous reactor, equations for, 21:21657
Doppler worth effects in fast reactor core materials, (E/T), 24:46011(R) (AI-AEC-12969)
Doppler-limited pulse operation power excursions in HTR, (E/T), 23:17258
effect of replacement of water reflector with lead on, 23:37621
effects in fast reactors, analysis of ceramic fuel element melting on, 22:53382
effects in reactors, higher order perturbation method for calculation of, (T), 23:40452
effects in reactors, space-time neutronics model for synthesis of, 21:40560 (KAPL-M-6711)
effects in SORA, application of TIMOC Monte Carlo code to calculation of, 23:15733 (ANS-RPD-1, Paper 5A)
effects in ZPR-3 and ZPPR, evaluation of fissile isotope decay losses on, 24:7241
effects of axial fuel expansion in SEFOR mockup in ZPR-3, 21:35695 (ANL-7320, pp 569-84)
effects of burnable poisons on water-cooled-reactor, measurement of, 22:42355(T) (ANL-Trans-637)
effects of burnup on A2 reactor, calculation of, 23:11186 (UJV-2027)
effects of control absorbers on Candu-type reactors, 21:35539 (AECL-2694)
effects of control rods on, comparison of methods for calculating, 22:50866
effects of control system response on pressurized-water reactor, analysis of, 22:30167(R) (WCAP-3708)
effects of coolant pH on pressurized-water reactor, 21:15664(R) (WCAP-3696-2)
effects of cooling system corrosion products and pH chemistry in pressurized-water reactors, 21:40584(R) (WCAP-3696-4)
effects of core configurations on 1000-MW(e) fast reactor, 21:17459 (NAA-SR-11378(Vol.1))
effects of core volume of uranium-235 on, survey of various reactors to determine, 21:23589(R) (ANL-7308)
effects of fission products in high-burnup fuels in, 21:7865 (EUR-3119.e)
effects of fission products on fast breeder power reactor, analysis of, 22:35629
effects of fluctuations on reactor, 21:30126 (CONF-660206, pp 487-501)
effects of fuel element fabrication process on, (E), 22:30343(R) (EURAEC-1992)
effects of grain size on plutonia—urania fuel element, 21:34154 (BNWL-427)
effects of heavy water in-pile loop 1 on MZFR, calculation of, 23:5996
effects of helium on Peach Bottom Reactor, 21:15653 (GAMD-7356)
effects of in-core material sample placement on critical assembly, calculation using PERTR code, 21:23718 (IA-1112)
effects of insertion into reactor of poison slab on, 21:38761
effects of irradiation devices on swimming-pool reactor, 21:14083 (NP-16432)
effects of lead shielding, criticality hazards in irradiated fuel element shipping casks from, 24:16082(R) (WAPD-MRP-128)
effects of moderator density, temperature, and boron concentration on pressurized-water reactor, computer program analysis of, 22:30164(R) (WCAP-3703)
effects of moderator density, temperature, and boron concentration on pressurized-water reactor, computer program analysis of, 22:30165(R) (WCAP-3706)
effects of moderator density, temperature, and boron concentration on pressurized-water reactor, computer program analysis of, 22:30166(R) (WCAP-3707)
effects of movable beryllium and iron reflectors on SORA mockup assembly, analysis of, 22:35605 (ORNL-4263)
effects of opposite movement for known and unknown absorption cross section samples on core, use of reactor oscillator for, 22:37589(P)
effects of period variations on TRIGA, 21:8078
effects of positive power, on HWOCR transient behavior, (T), 21:7919
effects of reactor core parameters on xenon-135 oscillations, analysis of, (T), 22:50839 (DPST-68-372)
effects of small samples in ZPR-9 Assembly No. 7, spatial distribution of, 21:44930 (ANL-7208)
effects of sodium coolant boiling on reactor, 21:35612
effects of sodium voids on, in liquid-metal-cooled reactors, (E), 21:35722 (NP-16853)
effects of steam voids on boiling water reactor, 23:45061
effects of thermal expansion and distortion on fast reactor, 23:4182 (KFK-539/1)
effects of uranium-235 depletion on MSRE, 21:35583(R) (ORNL-4119)
effects of white noise on, 21:27737
effects on Doppler coefficient of temperature-dependent neutron cross-section measurements in fast reactors, (T), 22:35709
effects on fissile material expansion in fast reactors, calculational procedure for determining, 22:32734 (ANL-7310, pp 137-248)
effects on neutron distribution in reactors, 22:6139
effects on neutron pulse propagation in uranium oxide (UO_2) fueled water moderated assemblies, (E/T), 24:7202
effects on power frequency response of MSRE, measurements of, 21:38522
effects on pressurized-water reactor peak power, analysis of reactor behavior during, 22:48648(R) (IDO-17271)
effects on stability of fast reactors, safety analysis of feedback, 22:32735 (ANL-7310, pp 249-375)
equations for point reactor, kinetics, 21:35599
equations for reactor, 21:7932
equations for reactor, ANCON solution of, 21:8044 (LA-3518)
equations for reactor, numerical solutions of, 21:21640 (KAPL-M-6581)
equations for reactor, under perturbation conditions, 21:7986
equations for reactor, using B.W.K. approximation, 21:12179
evaluation of nonvented T-111 clad uranium oxide (UO_2) fueled auxiliary power reactor, 23:43175 (N-69-25305)
excursion characteristics in boiling water reactors, description and classification of, 23:47222 (APED-5528)
excursions in boiling power reactors, analysis of potential, 23:31183 (CONF-650681-1)
excursions in fast breeder reactor, comparison of computer programs for modified Bethe—Tait analysis of, 24:16305 (BNL-50117, pp 55-76)
excursions in fast reactors, use of quasi static model for analysis of, 22:53347
excursions in reactors, approximate calculation of prompt critical, (T), 24:29087
excursions in UHTREX with uranium—thorium fuel elements, numerical analysis of, 23:2008 (LA-3959)
excursions in water cooled reactors, characteristics of self-limiting, (E), 24:5551
excursions in water-moderated uranium oxide (UO_2) fueled reactors, effects of Doppler effect on self-limiting power, 23:26100
factors affecting reactor, review of, 21:19385 (RISO-128)
fast advantage factor in blanket-seed assemblies, leakage effects on, (E/T), 21:7930
fast fission factor in reactor lattice, multigroup and Monte Carlo methods for effects of backscattering and interaction in, (T), 22:44944
feedback coefficients for fast reactor, analysis of, 22:32735 (ANL-7310, pp 249-375)
feedback effects on power spectral densities in reactors, analysis of, 21:38534
feedback effects on reactor stability, 21:31948 (TID-23844)
feedback effects on reactor stability, 21:40575(R) (STL-372-50)
feedback effects on reactor stability, temperature and power shape, 21:38537
feedback function in EBR-2, oscillator and rod-drop measurements of, 23:9130 (ANL-7476)
feedback in EBR-2, measurement at beginning and end of cycle of prompt, 24:7093
fission-product transient measurements using ARMF facilities, 21:46718 (IN-1096)
formulation of general, for analysis of breeder reactor properties, (T), 23:2124
fuel and moderator effects on reactor, 21:13991 (WAPD-TM-639)
fuel assembly, configuration design for temperature stability effects on, 22:12037
fuel element substitution effects on, measurement in organic-moderated lattices of, 22:50816
fuel meltdown effects on fast breeder reactor, 21:12178
gap worth measurements in 2600-liter uranium carbide (UC) core of ZPR-6 Assembly 5, 23:49581 (ANL-7410, pp 73-227)
heterogeneity effects in fast reactors, computer program for calculation of, (E/T), 22:35470 (RT/FI-(68)11)
heterogeneity effects in fast reactors, use of perturbed integral transport theory for describing sample size and environmental, 24:5564 (EURFNR-702)
heterogeneity effects in large carbide LMFBR, unit cell transport calculations of, 23:37702
heterogeneity effects in ZPR-3 Assembly 53, MACH-1 and CALHET computer program calculations of, 24:47818 (ANL-7610, pp 61-258)
heterogeneity effects on fast ZPR, discrete ordinate transport theory calculations of, 22:6122
heterogeneity effects on uranium carbide (UC)-fueled ZPR-6 assembly-5, measurement of, 22:33042
homogeneity effects in fast neutron spectra, calculation of, 22:53378
insertion effects on Spert III peak power during high-power transient testing, 23:7400(R) (IDO-17279)
insertion into reactors, use of singular perturbation theory for determining excursion parameters from ramp, 22:42380
insertion required for optimal reactor control, 21:38579
insertions in continuously fueled pebble bed reactors, dynamic effects of step, 23:11258
insertions in fast reactors, analytical method for evaluating effects of large step, 22:53388
insertions in time-varying reactors, effects on neutron population of large step, 22:18609
insertions in zero-power reactors, solution to equations for sinusoidal, 22:3940
insertions of, reactor response to ramp, 21:40611
integral relations for Boltzmann equation, use of compensated perturbations for solution of invariant, 23:26109 (FEI-142)
kinetics equations for coupled reactors, 21:12186
kinetics for nine various configuration and fuels in critical assemblies, calculation of, 22:47022
kinetics for zero power reactor, equation derivation for relating, (E/T), 22:30358
kinetics of fast reactor, analysis of optimum, 22:46952
kinetics of two dimensional circulating liquid metal fueled reactor, calculation of high power, 23:23985 (N-68-36055)
kinetics of two dimensional fluid fueled reactor, effects of radial temperature distribution on, (T), 23:45137
losses due to poison insertion into a reactor core, theoretical prediction of, 21:44931 (ANL-7303)
losses from burnup in Dounreay Fast Reactor, 21:7903
materials analysis in research reactors, methods for, 22:12115
measurement below 30 keV in fast critical assemblies, effects on Doppler-effects of energy- and temperature-dependent capture, (E/T), 22:35626
measurement by means of inverse kinetics computer program, 21:35746
measurement by multiplication method of negative, comparison with calculations of, (E/T), 25:28759 (JAERI-Memo-4272)
measurement by repeated cycling of recording analyzer, (T), 24:52994
measurement in boron-bearing critical assemblies, 21:25734
measurement in fast reactors, design and use of meters for, 22:7820 (TRG-Report-1526)
measurement in heavy water-moderated uranium oxide (UO_2)-fueled lattices, (E/T), 22:32976(R) (MIT-2344-12)
measurement in NORA using pulsed neutrons, 21:8042(R) (IAEA-3498-12)
measurement in Pathfinder Reactor, xenon effect on, 21:35538 (ACNP-67521)
measurement in presence of interference and white noise, signal reduction method for, 22:25026
measurement in reactors with chemical control, use of reactimeter for, 23:21436
measurement in reactors, analog direct technique for, 24:36673
measurement in reflected and unreflected water moderated reactor of excess, (E/T), 24:43723
measurement in research reactors of, methods for, 22:12108
measurement in research reactors, use of analog computers for automatic, 24:22494(T) (ANL-Trans-820)
measurement in ROSPO, use of Rossi-α technique for, 21:46956
measurement in steam-cooled SNEAK assemblies, effect of hydrogen gas density on, (E/T), 23:2067 (KFK-776)
measurement in subcritical assemblies using pulsed-neutron-source technique, 21:40687
measurement in subcritical cores, using pulse-type detectors, (E), 21:8086
measurement in subcritical enriched uranium oxide (UO_2) water moderated lattices, 24:11316 (EURAEC-2125)
measurement in subcritical reactors, source jerk technique for, 23:45139 (RD/B/N-1188)
measurement in subcritical reactors, theory of source jerk technique for, (T), 23:45140 (RD/B/N-1191)
measurement in tritium-labeled proteins separated by disc electrophoresis, liquid scintillation spectrometric, 23:17358
measurement in uranium-235—graphite lattices in VERA at 50 to 500 keV neutron energy, 21:40671(R) (AWRE-R-4/63)
measurement in ZEBRA Assembly 7 mockup of Prototype Fast Reactor, (E/T), 24:22461
measurement of 28 element uranium oxide (UO_2) fueled air, water, and air-water cooled ZED-2, comparison of, (E/T), 24:5538 (AECL-3416)
measurement of Agesta, equipment for, 21:23585 (AE-269)
measurement of aluminum—plutonium fuel, in cells with thoria targets, 21:8093
measurement of bare fast EURECA—SUAK exponential pile, (E/T), 24:7169 (CEA-R-3887)
measurement of beryllium oxide (BeO) and beryllium oxide (BeO)—thorium oxide (ThO_2) moderated uranium-235 fueled MOATA (Argonaut type) Reactor, effects of core composition on, (E/T), 23:34915 (AAEC/TM-496)
measurement of beryllium oxide (BeO) assemblies, pulsed source, 24:7214
measurement of beryllium oxide (BeO)-reflected plutonium phosphide (PuP)-fueled heat-pipe thermoelectric fast reactor, effects of configuration on optimum, 23:19543
measurement of ceramic-fuel fast breeder reactor, effects of core composition and configuration on, 22:1775 (RT/FI-(67)23)
measurement of change in MOATA, from boron rod insertion, 21:35664 (AAEC/E-181)

measurement of core kinetics for fast reactor, effects of time-dependent coupling coefficients on, (T), 22:35544
measurement of critical assembly and research reactor, removal of neutron source effects on, (T), 23:47259 (CNM-R-2(Vol.3), pp 1548-59)
measurement of CVTR installed, 21:31930(R) (CVNA-276)
measurement of Doppler effects in polyethylene moderated ZPR-9 Assemblies 13 to 17, 24:4100
measurement of EBR-2 power-reactivity decrement, analysis of linear components for, (E/T), 24:11164 (ANL-7539)
measurement of ECEL Cores 17, 17P, and 18, (E/T), 24:4039(R) (AI-AEC-12857)
measurement of effective delayed neutron fractions, method for, 21:19279
measurement of effective multiplication coefficient of, effect of reactor core configuration on, (T), 22:35690
measurement of excess reactor, using rod-drop methods, (E/T), 21:8136
measurement of excess, effects of varying boric acid flow rates in La Crosse Boiling-Water Reactor on, 22:3805(R) (ACNP-67530)
measurement of exponential pile pulse source, moments method for, (T), 23:34923
measurement of exponential pile, analysis of neutron flux variations for, 23:33109 (CEA-R-3696)
measurement of exponential pile, calculational methods for neutron buckling corrections in, 22:22831
measurement of fast and thermal reactor, analysis of few rod experiment programs for, (E/T), 24:36002 (EUR-4470)
measurement of fast breeder reactor, mathematical methods for, (T), 22:35471 (STI/PUB-165(Vol.1))
measurement of fast reactor, second order perturbation method for error estimation in, 22:37558 (IA-1156)
measurement of fast superheating reactor, (E/T), 23:49547 (AEEW-R-560)
measurement of fast—thermal core Stark reactor, 21:17520 (KFK-482)
measurement of fast-fission factor of clustered fuel elements, 21:44876
measurement of FCA with natural uranium metal blanket, pulsed neutron method for, 24:50192
measurement of FMRB reactor 5 x 5 core, 23:9218
measurement of fully and partially loaded 40-MW(e) HTGR prototype core, 21:7867(R) (GA-7232)
measurement of graphite moderated uranium oxide (UO_2) fueled Berkeley Nuclear Laboratories zero energy reactor, errors in, 24:2039 (RD/B/N-1189)
measurement of heavily reflected exponential pile, use of pulsed neutron technique for, (T), 23:11302 (RCN-98, pp 579-600)
measurement of heavy water moderated thermal reactor, effects of coolant boiling on, (E/T), 24:7077
measurement of heavy water moderated Zircaloy-2 clad aluminum—plutonium alloy fueled critical assemblies, effects of configuration on, 24:7217
measurement of heavy water zero power RB research reactor, pulsed neutron method for, 22:12116
measurement of heavy-water moderated, water-cooled, enriched uranium reactor, effects of kinetic parameters on, 22:12010 (CEA-R-3318)
measurement of heterogeneous power reactor, stochastic technique for, (T), 22:37459
measurement of heterogeneous system, multi-group approximation method for, (T), 22:18658
measurement of High-Temperature Gas-Cooled Reactor Experiment Core 4 Charge 3, use of binary change code perturbations and neutron flux and thermocouple signals for, 24:24808 (AEEW-R-674)
measurement of HTGCR dynamics, optimization studies for, (E/T), 23:21461 (AEEW-R-603)
measurement of HTGR type reactor fuel element thorium-232 Doppler, 24:7137
measurement of HTGR, using pulse—source methods, (E/T), 21:7929
measurement of infinite multiplication factor in aluminum—plutonium—thoria supercell, 21:23711(R) (BNWL-340)
measurement of IRT reactor, effects of reflector material and in-pile loop on, 23:49590
measurement of JRR-4 fission rate, radiochemical analysis of molybdenum-99 formation in uranium samples for, 24:4096
measurement of LFR, KRITO, and NORA, effects of detector locations on pulsed neutron, (E), 23:11302 (RCN-98, pp 579-600)
measurement of liquid metal cooled fast reactor with radial stainless steel reflector, 24:50085 (ANL-7541)
measurement of LMFBR, ECEL Cores 14 to 17 for simulation, 23:13534 (AI-AEC-12721, pp 29-41)
measurement of low, description of reactor oscillator method of, 22:44910
measurement of magnox reactor fuel elements burnup, computer program analysis of, (E/T), 22:22773
measurement of MASURCA, review of experiments for, (E/T), 24:22454
measurement of MIT Research Reactor, effects of core design modifications on, 24:7206
measurement of moderator coefficients for water moderated and heavy water moderated reactors, comparison of methods for, (E/T), 24:11319
measurement of multi-fueled heavy water-moderated reactor infinite multiplication constant, use of Methuselah code for, 22:37477
measurement of multi-region water-reflected uranium—water, method for radial power-flattened, 23:13550
measurement of natural uranium fueled heavy water moderated lattices, review of data on, (E/T), 24:5544 (CISE-R-101)
measurement of negative, using pulsed source technique, 22:35207
measurement of neutron spectral index for k/sub infinity/ in RB-1 reactor, detector system for, 22:20911 (RT/FI-(67)30)
measurement of neutron streaming effects of empty channels on graphite lattice, calculational methods for, (E/T), 22:25148
measurement of non-uniform cylinder-shaped water-moderated uranium exponential pile macroscopic parameters of, (E/T), 23:9216
measurement of Otto Hahn Reactor, rod drop method for, 24:4120
measurement of PCTR aluminum—enriched uranium alloy and aluminum—lithium alloy 6 by 6 supercell lattice, (E/T), 23:49583 (BNWL-1029)
measurement of PCTR Fast Neutron Cavity, 23:23955 (BNWL-CC-1704)
measurement of Peach Bottom Power Reactor Unit 1 during August to October 1969, 24:11202(R) (GA-9797)
measurement of PF-4 research reactor subcritical, coherent method for, (E/T), 23:11296 (RCN-98, pp 279-90)
measurement of plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled zoned and unzoned core, optimum fuel cycle management from, 22:42164(R) (BNWL-775)
measurement of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) fueled critical assemblies, (E), 24:18614(R) (BAW-3647-15)
measurement of power reactor shutdown neutron noise, use of Cherenkov detector for optimum, 23:4196 (RISO-M-793)
measurement of power reactor shutdown, effects of background gammas on instruments for, 21:38528
measurement of pressurized-water reactor core mockup, effects of fuel enrichment and boron concentration on, (E/T), 22:30168(R) (WCAP-3710)
measurement of pulsed neutron source exponential pile, methods for, (E/T), 23:17275
measurement of pulsed neutron source of aqueous uranyl fluoride (UO_2F_2) fueled unreflected cylinder shaped critical assembly, (E/T), 24:11268 (N-69-39186)
measurement of pulsed URR, effects of water absorption by graphite on, 23:43156
measurement of reactor, description of combined neutron flux and heat detectors for, 22:35701(P)
measurement of reactor, design and operation of on-line computer system for, 24:48343 (WAPD-TM-896)
measurement of reactor, instrument for, 22:47406(P)
measurement of reactor, instrumentation for, 23:19946(P)
measurement of reactor, meter for post-shutdown, 21:10181(P)
measurement of reactor, using differential reactivity, 21:30202
measurement of reactor, using noise, (T), 21:8085
measurement of reflector savings in thorium oxide (ThO_2)-uranium oxide (UO_2) exponential pile, use of computer calculations of radial-flux distributions for, (E), 22:35633
measurement of reserve, double over-compensation method for, (E/T), 25:10321
measurement of Saxton Power Reactor Core 3, 24:3998(R) (WCAP-3385-20)
measurement of shutdown, in fast and thermal reactors, on-line meter for, 21:38527
measurement of shutdown, use of University of Maryland swimming-pool reactor for, 21:38708
measurement of sodium void effects on Assembly 5 of ZPR-6 reactor, 22:33041
measurement of Spert-III Core-C, during transient tests, 21:23719 (IDO-17223)
measurement of spherical sodium-cooled fast oxide reactor, effects of diffusion and discrete ordinates S4 transport theory on, 22:7808(R) (GEAP-5522)
measurement of steam cooled fast breeder reactor, effects of steam density at 3600, 2500, and 1200 psi on, 23:31158 (ORNL-TM-2582)
measurement of steam-cooled fast breeder reactor, effects of core shape and enrichment on, 22:27401 (BNWL-713)
measurement of subcritical assembly, use of moments method and computer programs for, 22:22857 (MIT-2344-11)
measurement of subcritical, effects of neutron detection efficiency on polarity spectral coherence method, (T), 25:54278
measurement of subcritical, pulsed neutron methods for, (T), 25:10309
measurement of thermal reactor high surface to mass ratio thorium-232 Doppler, 24:7076
measurement of tungsten-based rocket-type reactor, 21:31996 (ANL-7207)
measurement of UNFBR fast neutron spectra Doppler, techniques for, 24:24784(R) (NAA-SR-12570)
measurement of uranium carbide (UC)-fueled ZPR-6 assembly-5, analysis of, 22:33040
measurement of uranium oxide (UO_2) fueled Aquilon 2 Reactor, (E/T), 24:4088 (CISE-R-100)
measurement of uranium oxide (UO_2) fueled cylinder shaped critical assembly, 23:52399(R) (BAW-3647-12)
measurement of uranium oxide (UO_2) fueled cylinder shaped critical assembly, (E), 23:52400(R) (BAW-3647-14)
measurement of uranium oxide (UO_2) fueled ZPR-6 and ZPR-9 Doppler, 24:7218
measurement of UTR-10 coupling coefficient for, ratio of mean generation time to, 21:42833
measurement of VIPER Pulsed Fast Reactor full pulse, analysis of, (E/T), 23:9211
measurement of water and heavy water moderated thorium oxide (ThO_2)—uranium oxide (UO_2) fueled exponential piles, (E), 24:52972
measurement of water moderated and reflected uranium oxide (UO_2) fueled assemblies spatial, 24:7213
measurement of water moderated uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled assemblies, 24:43804 (BAW-1357)
measurement of water moderated WWR-SM type reactor, (E/T), 24:24877 (INR-P-1150)
measurement of water-moderated natural-uranium rod exponential pile, use of spontaneous fission for neutron source in, 22:30334
measurement of water-moderated reactor thermal neutron, effects of irradiation loops on, (E/T), 22:18582 (CEA-R-3173)
measurement of water-moderated reactors, computer program for, 22:24932 (BNWL-735)
measurement of water-moderated reactors, use of control rods for, 22:30352
measurement of water-moderated Type 304 stainless steel- and aluminum-clad Hi-C pellet-type uranium oxide (UO_2)-fueled DIMPLE assemblies, effects of configuration on, 22:53433
measurement of WWR-SM, effects of increased water-to-fuel ratio on, (E/T), 24:20602 (INR-1119)
measurement of ZEBRA Reactor plutonium lattices, (E/T), 24:22453
measurement of zirconium deuteride and zirconium hydride variable slowing-down power moderating rods effects on reactor, description of, 22:37600(P)
measurement of ZPR 3 Assembly 48, use of ENDF/B cross sections for, (E/T), 23:31198 (GA-8847)
measurement of ZPR-6, use of perturbation techniques for sodium void effects on, 22:35628
measurement of, automatic adjustment of simulated source for analog meters for, 25:18855(P)
measurement of, design of period meter and logarithmic rate meter for, 21:1696(P)
measurement of, digital period meter for, 25:477
measurement of, in graphite—natural uranium lattices in RB-1, 21:14091
measurement of, method for automatic, 23:49655 (IAE-1689)
measurement of, use of noise techniques with two-detector cross correlation for on-line, 23:4328
measurement techniques for exponential piles, description of, (E/T), 22:35623
measurement using pulsed source techniques, (T), 22:29854
measurements at different power levels of Sioux Falls Power Reactor, 21:23619(R) (TID-23646)
measurements at zero power in Agesta Nuclear Power Reactor, 21:40519 (AE-289)
measurements by rod drive method, 21:23728 (RCN-65)
measurements during initial operation of Peach Bottom reactor, 21:38452 (GA-8025)
measurements during operation of MSRE, 21:1173 (ORNL-TM-1626)
measurements for CANDU Reactor, analysis of startup, (E/T), 23:1971 (AECL-2712)
measurements for heavy water-moderated reactors, analysis of zero-reactivity method for, (E/T), 22:30338
measurements for NERVA, 21:38644
measurements for plutonium-fueled ZPR-3 Assembly-48, -49, and -50 and ZEBRA-6A and -7A, analysis of, 23:4336
measurements for PRTR plutonium oxide (PuO_2)—uranium oxide (UO_2) batch core, 24:31096 (BNWL-1383)
measurements for Shippingport Seed 1, comparison of calculated values with, 21:40580(R) (WAPD-MRP-121)
measurements for subcritical, 21:2883
measurements for two loosely-coupled-core organic moderated reactors, analysis of pulsed, (E/T), 23:2127 (RT/FI-(68)27)
measurements for uranium-fueled steam-cooled fast power reactor, use of SNEAK 3A assemblies for, 23:21464 (EURFNR-608)
measurements in AGN-201, statistical evaluation of subcritical, 21:40686
measurements in boiling and pressurized-water reactors, 21:27750
measurements in critical assemblies for NERVA design, differential and integral, 21:38712
measurements in critical assemblies for spectral shift reactor design, 21:35763
measurements in critical assemblies, development and use of source-drop technique for, 23:11335
measurements in Dounreay Fast Reactor, 21:27768
measurements in far subcritical lattices, analysis of methods for, 23:11334 (RCN-98, pp 555-77)
measurements in fast breeder reactors, 21:27751
measurements in fast critical assemblies, determination of cross section inaccuracies using, 22:33053
measurements in fast critical assemblies, evaluation of methods for analysis of sodium-void, (E/T), 22:47005 (APDA-216(Vol.2))
measurements in fast critical assemblies, neutron cross section evaluation and data testing for analysis of sodium-void, (E/T), 22:47004 (APDA-216(Vol.1))
measurements in fast critical assemblies, use of on-line computer for space-dependent, 21:38686
measurements in fast reactors, effects of heterogeneity on, 21:35553 (ANL-7320, pp 394-402)
measurements in fast zero power FR—0 reactor, 21:25730
measurements in fast ZPR-9 assemblies 13-17, effects of temperature on, 22:32734 (ANL-7310, pp 137-248)
measurements in fast-thermal STARK at various states of, 21:25716 (KFK-522)
measurements in Fort St. Vrain Reactor initial core, 21:4376 (GAMD-6651)
measurements in FR-0 by pulsed-source and Rossi-α methods, 21:35698 (ANL-7320, pp 694-704)
measurements in FRJ-1, analysis of startup, 23:11286 (JUL-546-RE)
measurements in high gamma fluxes using boron-lined proportional counters, 21:30128 (CONF-660206, pp 413-38)
measurements in Iowa UTR-10, direct shutdown margin determination by, 22:14285
measurements in JPDR, coolant void effects on, 21:30212

measurements in LOFT, effects of fuel pin variations on, 23:11256(R) (IDO-17265)
measurements in Peach Bottom core, 21:25624(R) (GA-7595)
measurements in Peach Bottom Power Reactor, analysis of, 21:40596
measurements in Peach Bottom reactor for various fuel-element configurations, (E/T), 21:12134 (GAMD-7355)
measurements in Piqua reactor core, 21:1169(R) (NAA-SR-Memo-12071)
measurements in plutonia—urania fueled lattices, 21:38672 (WCAP-3726-1)
measurements in plutonium fueled assemblies, precision of servo-control techniques for, 24:47891 (ANL-7610, pp 369-464)
measurements in plutonium-fueled MTR-core mockup, analytical techniques for evaluating, 23:37634
measurements in power reactors using two-detector cross correlation, analysis of method for on-line, 21:38529
measurements in power reactors, role of, 21:27749
measurements in pressurized-water reactors, 21:27758
measurements in pulsed ZPR-3 Assemblies 53 and 54, 24:47818 (ANL-7610, pp 61-258)
measurements in RC-1 reactor, 21:25732
measurements in ROSPO, (E/T), 21:21772 (RT/FI-(66) 20)
measurements in RV-1, use of xenon poisoning for temperature coefficient of, 23:4352
measurements in Saxton Power Reactor, 21:30179(R) (WCAP-3385-10)
measurements in Saxton, effects of chemical shim on, 23:17207 (DOCKET-50146-2)
measurements in SEFOR mockup in ZPR-3, 21:40674 (GEAP-5294)
measurements in simulated CANDU-BLW lattices in ZED-2, 21:30246 (AECL-2667)
measurements in Sioux Falls Power Reactor, 21:38469(R) (TID-23919)
measurements in SNEAK, 21:19468 (KFK-472)
measurements in SNEAK 4 for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) and uranium oxide (UO$_2$) fueled KNK Core 2, 24:24876 (EURFNR-746)
measurements in SNEAK and STARK, use of polarity correlation of reactor noise in frequency domain for shutdown, 24:4151
measurements in sodium—plutonium core of ZPR-3 of perturbed, 22:7788(R) (ANL-7382)
measurements in Spert III E-core, 21:19464(R) (IDO-17207)
measurements in STARK crossed-assembly, 21:21794
measurements in subcritical assemblies, use of differences in detector energy response for, 23:52474
measurements in subcritical assemblies, use of impulse response technique for, 23:37746
measurements in subcritical multiregion reactor systems, inhour equation for interpretation of, 24:11302
measurements in Thermionic Critical Facility Assembly 1, with enriched uranium and polyethylene foil fueled, 23:21513 (GA-8767)
measurements in three-dimensional arrays of plutonium billets, 21:24419 (UCRL-50175)
measurements in two-region reflected AGN type reactor, pulsed neutron, 21:40689
measurements in UHTREX, 21:40563(R) (LA-3760)
measurements in water-moderated split-core reactors, 21:35594
measurements in zoned critical experiments for fast power reactor design data, 21:38688
measurements in ZPR-3, analyses of graphite density, 24:7222
measurements in ZPR-6, effects of varying scattering cross section on, 21:31898(R) (ANL-7329)
measurements in ZPR-6, pulsed neutron techniques for, 22:32734 (ANL-7310, pp 137-248)
measurements of BBRR, during startup, 21:25713 (BNL-11243)
measurements of boric acid-poisoned urania cores, 21:25712(R) (BAW-3647-3)
measurements of Fast Test Reactor beryllium oxide (BeO)-moderated plutonium carbide (PuC)-uranium carbide (UC)-fueled 400 MW core, 23:11278 (BNWL-914)
measurements of graphite density, in ZPR-3 Assembly 53, 24:47818 (ANL-7610, pp 61-258)
measurements of graphite—natural uranium lattices in RB-1, 21:23715 (EUR-3126.i)
measurements of ORR shutdown, use of noise analysis for, 23:4330
measurements of Peach Bottom Power Reactor Unit 1, effects of full power days on, 23:4264(R) (GA-8816)
measurements of PM-4 Core 2, 24:13623 (BAW-4099-1)
measurements of pulsed neutron, application to HFIR zero power experiments, 22:12114
measurements of sodium in ZPR-3 assemblies 48, 48B, and 49, analysis of, 22:33036
measurements of temperature coefficients of, in CVTR, 21:35625
measurements of water-moderated type 304 stainless steel-clad 5 per cent enriched uranium oxide (UO$_2$)-fueled THETIS Reactor, effects of core configuration on, (E/T), 22:35593 (EURAEC-1882)
measurements of, comparison of dynamic and static calculations, 21:27678(R) (GEAP-5276)
measurements of, effects of subcritical kinetic distortion corrections on interpretation of, 24:33532
measurements of, in Swedish R-0 and TZ, 21:32002 (AE-277)
measurements of, parameters in MSRE, 21:21644 (ORNL-TM-1796)
measurements of, using absorber rod-worths in plutonia—urania—water lattices, 21:30103(R) (BNWL-400)
measurements on mock-up of SORA reactor, 21:5692 (ORNL-P-2641)
measurements on Pathfinder boiler core and full core, 21:1152 (ACNP-65599)
measurements on plutonia—urania batch core for PRTR, 21:38533
measurements on single and arrayed water-moderated and -reflected HFIR fuel elements, 23:7281(R) (ORNL-4280)
measurements on subcritical arrays, standards for safety in, 25:26041
measurements on subcritical enriched-uranium cylinders, 22:15925 (ORNL-TM-1736)
measurements using generation time formulation of prompt neutron decay constants, 22:20947
measurements using pulsed-neutron technique, GRIPE II computer program for analysis of, 21:46942 (IN-1085)
measurements using Rossi α method, 21:27739
measurements using Rossi-α method, correlation term in, (T), 21:40357
meter for measuring, detailed description of continuous on-line, 22:53486
model of reflected pulsed assembly, time-dependent, 21:23734
model of reflected pulsed reactor, 21:14102
model of space-dependent boiling reactor, 21:10161
moderator temperature effects on reactor, 21:17472 (WCAP-2987)
moderator void effects on pool reactor, 21:14000
monitoring of Toshiba Training Reactor 1, balance method for digital computer, 24:16250
monitoring system for power reactor, evaluation of two-detector cross-correlation 2DCT, 22:50738 (ORNL-4255)
multiplication factor derivation, 21:30108 (CEA-R-3114)
multiplication factor determination in reactors by counting tube signals analysis, subcritical, (E/T), 24:24919
multiplication factor for multiple configuration thorium oxide (ThO$_2$)-target supercell of 8 x 8 lattice PCTR, measurement of infinite medium, 22:50800 (BNWL-792)
multiplication factor for reactor, analog computer model for rod-drop method calculation of less-than-unity effective, 23:13574(T) (ORNL-tr-2084)
multiplication factor for spherical-cavity reactor, solution by Laplace transforms of, 21:42755
multiplication factor measurements in heavy water lattices, description of facility for, 21:23739
multiplication factor measurements in RB-1 reactor natural uranium—graphite lattice, null reactivity method for infinite, 22:42368
multiplication factors for three dimensional two-group diffusion code calculations, extrapolation method for effective, 23:17246(R) (BNWL-985)
multiplication factors in 0.8 percent uranium fueled graphite moderated lattices, water coolant and flooding condition effects on infinite medium, (E), 23:52401 (BNWL-1153)
multiplication factors in natural uranium lattice cells, few-group condensation calculations of infinite, 24:29079 (AAEC/TM-532)
multiplication factors in water moderated uranium fueled lattices, (E/T), 24:22501
multiplication factors of bare homogeneous assemblies, collision probabilities method for calculation of, (E/T), 24:36090
neutron cross section energy dependence of, effects of computer approximations on, 22:27466 (LA-DC-9404)
neutron fluctuations in water-moderated circular lattice assemblies of uranium oxide (UO$_2$) fuel rods, analysis of, (E/T), 23:2107 (WAPD-TM-804)
neutron flux distribution transient for reactor, time-discontinuous calculation for time-dependent, 21:42756
neutron flux intrastructure in plate-type heterogeneous uranium oxide (UO$_2$)-fueled fast core ZPR-6 Assembly-6, analysis of, 23:4334
neutron generation time for fast reactor, description of discrete time and discrete state Markov process for, (E/T), 22:35545
neutron generation time formulation of, use of prompt decay constants for, 22:14301
neutron multiplication in fuel element lattices, 21:30138(R) (GA-7934)
neutron prompt decay constants of exponential pile, use of harmonic free transfer functions for, (E/T), 22:35706
neutron pulsing effects on NORA, 21:32012(R) (IAEA-3998-17)
neutron resonance spacing, use of synthetic kernel method for analysis of, (T), 22:30362
neutron response in pulsed coupled-core rocket reactors, (E/T), 23:2082 (LA-3982)
neutron scattering effects on, use of light and heavy water solutions of boric acid for measuring, 23:26121 (IN-1218, pp 57-72)
neutron spectra and reaction rates for soft-spectrum fast core critical assemblies, analysis of, 23:4335
noise analysis for fast reactor, probability distribution for p-method, (E/T), 22:35705
noise analysis for reactor, model effects in triple-correlation, (T), 22:35704
noise fluctuations in, measurement of in-core local power distribution by external detection of natural γ, 23:15745
noise in reactors, theory of, 24:24812 (JAERI-1187)
noise source for at-power reactors, calculation of input, (T), 23:45135
oscillation in 1000 MW(e) HTGR-type reactor, effects of xenon behavior on, 23:13412(R) (GA-8530)
oscillation of, method for optimum control of xenon, (T), 24:4143
oscillations analysis for boiling raactor stability, description of, 22:35537
oscillations in dual feedback reactor, solution of autonomous nonlinear differential equations for nonlinear, (T), 23:45127 (TID-25131)
oscillations in large pressurized-water reactors, procedure for control of xenon-induced spatial, (T), 23:13442(R) (WCAP-3680-8)
oscillations in large three zone core pressurized water reactor, effects of core parameters on xenon, (T), 24:5519 (WCAP-3680-23)
oscillations in Marviken reactor, Doppler and void coefficient effects on feedback, 21:44873
oscillations in natural circulation boiling reactor, simulation of, (E/T), 23:33044
oscillations in pressurized water reactor, control procedures for xenon induced spatial, 23:43097 (WCAP-3680-21)
oscillations in pulsed neutron coupled-core reactor, analysis of, (E/T), 22:25162
oscillations in reactors, analysis of xenon induced, (E/T), 24:50231
oscillations in reactors, calculation of nonlinear, 22:25154
oscillations in reactors, model analysis of xenon induced, (T), 24:52996
oscillations in thermal reactors, calculation of boundary stability for xenon induced, (T), 24:5570
oscillations owing to reactor equilibrium power being in excess of critical power, 21:23661
oscillator testing of reactor, description of automatic analog control system of Balanced Oscillator Tests for, 22:35662 (EURFNR-498)
parameter determination for BONUS, 21:23595 (CEND-295)
period measurements for low power reactor, technique for large neutron source asymptotic, 22:39934
period measurements in ANNA, prompt neutron generation effect on stable, (E/T), 22:10058 (INR-P-815/IX/R)
period of NORA, use of rod drop data for, (E/T), 24:16244
perturbation effects on SNAP-8 reactor, analog simulation of, 21:38628 (NASA-TN-D-4095)
perturbations from thermal absorbers and fast sources in various reactor core configurations, one-dimensional multigroup diffusion calculations of, (E/T), 24:38613
perturbations in fast reactor, Monte Carlo analysis of, (E/T), 24:24918
perturbations in pulsed reactors, Monte Carlo method for calculating geometric variation effects on, 23:4433
perturbations in Swedish Reactors (R-3), analysis of step responses and transfer functions from, (E/T), 24:16009 (AE-376)
perturbations in various RRR (Rossendorf) core configurations, effects of thermal absorber and fast source on, (E/T), 24:24889
perturbations of, effects of random vibrations of control rods and fuel elements on, (T), 24:22485
physics calculations for reactor, mathematical models for, 22:42559
physics measurements of ROSPO, description of pulsed source method for critical to subcritical, 22:20924
physics parameter determination in DIORIT by, 21:30279
power burst fluctuations in reactors with prompt negative temperature coefficients of, 21:25674
power coefficient of EBR-2, effects of stainless steel reflector on differential and integral, 23:40330 (ANL-7544)
power distribution for core configurations of 1000 MW(e) heavy water-moderated organic-cooled power reactors, analysis of optimum radial, 22:50741 (WASH-1083)
power tests for MSRE, effects of power level on frequency response in, 23:21501 (ORNL-4344, pp 1-52)
power-void measurements of, in Halden burned core, 21:31943(R) (NP-16803)
pulse device for fast reactor, description of double-window synchronized rotating pre- and excess-pulse screens, 22:22853(P)
pulse device for fast reactor, description of synchronized rotating pre- and excess-pulse screens, 22:22852(P)
pulse shapes in reactors, kinetics calculations of, 21:35609
pulsed, description of multi-region movable medium for reactor, 22:10100(P)
pulsing device for, design for fast reactor, 21:44904(P)
ramp insertion of, analysis of excursions due to, 21:34134
reactor personnel instruction on, use of computers in, 21:8089
reactor-accident forces from, analysis of, 21:7936
relationship between stable positive period and, calibration of control rods of AFRRI-TRIGA by inhour, 21:27796 (AFRRI-TN-66-3)
removal rates for ZPR-6, 21:30091(R) (ANL-7210)
requirements of Zircaloy-clad urania LOFT core, calculation using TURBO code, 21:27681 (IDO-17236)
resonance cross section in material lattice cell, methods of calculating effects of heterogeneity on large, (E/T), 22:5923 (EURFNR-402)
safety analysis of fast reactors, effects of configuration on, 22:53292
safety requirements for research reactor low-power operation built-in, 23:23977
shutdown margin in subcritical systems, pseudorandom pulse propagation technique for measurement of, (E), 24:47901 (CONF-680980-, pp 71-85)
shutdown margins for, two frequency reactor noise method for worth measurements for, (T), 25:60043
simulation of coupled-core reactor, performance of analog computer Chezem-Helmick model, 22:35687
sodium void coefficient for 4000-liter uranium oxide (UO$_2$) core for Assembly 6 of ZPR-6, measurement of effects of position on, 23:49581 (ANL-7410, pp 73-227)
sodium void coefficient measurements in ZPR-6, comparison of calculated values with, 23:37655
stability analysis of, comparison of case for prompt-positive temperature coefficient and slow-negative temperature coefficient in, 21:25659

stability domains for nonlinear point reactor, (T), 25: 28800 (COO-2109-3)
stability in dual feedback reactor, solution of autonomous nonlinear differential equations for nonlinear, (T), 23: 45127 (TID-25131)
stability in reactor core in presence of xenon-135, XEKE computer program for, 21:12257 (LA-3588)
stability of boiling reactor, effects of void fractions on, (E/T), 24:4049 (EURAEC-2092)
stability of CANDU type reactors, effects of xenon oscillations on, 24:16097
stability of CIRENE type reactor, analog and digital computer analyses for, 24:13537 (CISE-R-167)
stability of large plutonium-fueled liquid sodium-cooled fast power reactors, sodium void and Doppler effects on, 23:19477 (IA-1177)
stability of power reactor, effects of external perturbations on, (T), 23:45133
stability of reactor, calculation methods for, (T), 22: 44919 (EIR-119)
stability of reactor, derivation of Lyapunov functions for nonlinear, (T), 24:11296
stability of reactor, use of Volterra series for boundary conditions of, (T), 24:4137
stability of thermal reactors, Lyapunov analysis of xenon effects on, (T), 22:35510
stability of thermionic converter, comparison of limiting models for, (T), 24:7255
stability of uranium carbide (UC) fueled fast thermionic converter, comparison of limiting models for, (T), 24: 7259
step change in two equal-parameter symmetrical coupled-cores, point-reactor expressions for, (T), 23:13573 (KFK-786)
step insertions in uranium oxide (UO$_2$)-fueled Spert 3 Oxide Core Kinetics Test E-core, effects on transient behavior of 0.67 to 1.25$, (E/T), 22:44890(R) (IDO-17270)
temperature coefficient calculations for fast reactors, multigroup formalism for Doppler activation, (T), 23: 24013
temperature coefficient for full size SEFOR core, 24: 13601(R) (GEAP-10010-22)
temperature coefficient for Penn State TRIGA reactor, use of thermal cell calculations for determining prompt negative, 23:43159
temperature coefficient measurements in EBWR, 21: 12231(R) (ANL-7267)
temperature coefficient of, calculational techniques for determining thermal reactor, 22:50754
temperature coefficient of, definition using Fuch model, (T), 23:13578
temperature coefficient of, effects of central water gaps on water-moderated reactor, 22:39884
temperature coefficient of, effects of plutonium isotopic content on, 22:27396(R) (AI-AEC-12638)
temperature coefficient of, effects of xenon buildup on, (E/T), 24:18741
temperature coefficient of, methods for measuring gas-cooled reactor, 22:50753
temperature coefficients for reactors, model for determination of, 22:30384
temperature coefficients in uranium fueled zirconium hydride—water moderated lattices, prompt, (T), 24: 41064
temperature coefficients measurements on multiple samples, use of ECEL Core 17 for, 23:23948 (AI-AEC-12744, pp 11-14)
temperature coefficients of Halden burned core, 21: 31943(R) (NP-16803)
temperature coefficients of, comparison of calculation methods and results for thermal neutron, (T), 23: 49659
temperature coefficients of, measurement in Kyoto University Research Reactor of, 21:35752
temperature coefficients of, ramp input technique for measurement of, (E/T), 23:49669
temperature effect measurements in multizone critical assembly, 22:53378
temperature effects in large seed-blanket reactors on, moderator, 21:38560
test for existence of solar quadrupole moment, (T), 22: 11120
transfer function analysis in EBR-2, on-line digital method for, 23:11188
transfer function analysis of L-54 reactor, use of spectral power density and neutron flux noise for, (E/T), 22: 50827
transfer function analysis, power spectral density measurements of, 21:38525
transfer function for reactor, noise analysis of, (T), 23: 2119
transfer function measurements in power reactors, dynamic analysis by, 21:38539
transfer function measurements in UTR-100, use of reactivity oscillator for, 22:3901 (SRRC-19/67)
transfer function method for reactor kinetics evaluation, 21:38458 (KAPL-3160)
transfer functions for NORA, use of rod drop data for, (E/T), 24:16244
transient analysis of boiling water reactors, RAMONA 1 computer program for, 23:43096 (KR-135)
transients in EBR-2, AIROS-2A computer program for analysis of effects of hypothetical accidents on, 24: 13587 (ANL-7613)
transients in fast reactor, effects of Doppler pulse on, (T) , 24:7073
transients in fast reactor, effects of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) inhomogeneity on, 24: 7078
transients in fast reactors, solutions to equations with time-dependent feedback which describe, 24:2006 (KFK-961)
transients in gas cooled heavy water moderated reactor, techniques for control of startup and shutdown, 23: 40336
transients in large boiling water power reactors, methods for analysis of superprompt critical, 23:47219 (APED-5448)
transients in large boiling water power reactors, detailed analysis of, 23:47221 (APED-5455)
transients in oxide fueled fast reactors, procedure for computing disassembly effects of, 23:37569
transients in regular lattice cell arrays, effects of random boiling zones on, (T), 24:4131
transients in sodium-cooled reactors, effects of sodium temperature coefficients on, 22:6011
transients in water-cooled and -moderated reactors, analysis of self-limiting, (E/T), 23:13547
transients of Fermi Fast Breeder Reactor, effects of power setbacks at 50 and 75 MW(t) on, 23:7363 (APDA-NTS-21)
transients of Fermi Fast Breeder Reactor, effects of one circuit coolant loss at 20 MW(t) on, 23:7362 (APDA-NTS-20)
transients, computer program for high temperature power reactor one dimensional, 24:16172
transmission functions for reactor, two-group diffusion approximation of, (T), 22:35689
use of negative, in NORA, prompt neutron decay constant measurement by, 21:42824
variation in fast reactors, analysis using improved perturbation methods, 21:35550 (ANL-7320, pp 304-15)
variation of fast superheating reactor, use of SNEAK-3A for effects of hydrogen concentration on, (E/T), 23: 13542(T) (EURFNR-550)
variation of reactor core, with irradiation, (E), 21:15687
variations analysis in homogeneous reactors, use of Volterra functional series for space-independent, (T), 23:17279
variations between calculated and measured values in CVTR, 21:30130 (CVNA-280)
variations for different sized cores, comparison of calculated to measured, 21:25722
variations from reflector motion in high temperature fast reactors, 24:13619
variations in 1000 MW(e) fast breeder reactors, effects of temperature-induced bending of fuel elements on, (T), 23:9229(T) (EURFNR-540)
variations in boiling reactors, effect of external high frequency signal on, 21:5641
variations in closed-cycle pressurized-water power reactors, effects of coolant pH on, 23:28442(R) (WCAP-3696-8)
variations in ETR for increased fuel density loadings, 21:35747
variations in fast critical assemblies, autorod transfer function measurements for determination of small, 22: 33074
variations in fast reactors due to melting of uranium oxide (UO$_2$) fuel, (T), 22:27402 (BNWL-717)
variations in fast reactors, Doppler measurements on, 22:30155(R) (NAA-SR-12296)
variations in fast reactors, effects of temperature and power on, 23:52330(T) (JPRS-48331, pp 301-42)
variations in FRG reactor core, effects of irradiation device on, (E/T), 24:22452
variations in large fast power reactors, effects of, 22: 53387
variations in low-power research reactors, development of source-drop technique for measuring, 24:16243 (RT/FI-(69)11)
variations in Mixed-Spectrum Critical Assembly with superheat experiment, 21:12141(R) (GEAP-4932)
variations in operating reactors, location by out-of-core γ detectors of, 23:15621
variations in PCTR uranium-metal fuel element in graphite lattice, effects of coolant flooding on, 23: 13539(R) (BNWL-921)
variations in reactor systems, perturbation theory expressions for small, 25:31655
variations in reactor, computer codes for instruction on, 21:8090
variations in reactor, descriptions of reactor-noise time-analysis methods for, (T), 23:2103 (BNWL-875)
variations in reactor, effects of xenon on, (E/T), 21: 21641 (KAPL-M-6596)
variations in reactors, analysis of anomalous operation using, 22:16275 (CONF-671011-, pp 89-101)
variations in reactors, evaluation of on-line computerized system for determining anomalous, 23:43103
variations in reactors, reactivity balance method for measurement of, (E/T), 25:26039
variations in steam-cooled fast breeder reactors, effect of design parameters on, (T), 22:35556
variations in water cooled reactors, effect of coolant pH on, 23:15622
variations in water-moderated rod-type aluminum—plutonium-fueled assemblies, calculation of, 23: 13539(R) (BNWL-921)
variations of fast reactor, effects of fuel burnup on, (T), 21:21734
variations of Latina Power Reactor, calculation of intrinsic, 23:33002 (EUR-4234)
variations of reactor, use in fission-rate measurements, 21:8058
variations of subcritical reactor, radiation detector response correlation model for, 21:25725
variations with coolant density in plutonium-fueled steam-cooled fast reactor lattice, (E/T), 22:35641
variations with coolant density in steam-cooled fast reactors, (T), 22:35557
void and material worths in AARR, 21:30091(R) (ANL-7210)
void effects on fast reactor, analysis of liquid sodium, (E/T), 22:18513
void effects on fast reactor, perturbation analysis method for sodium, 22:18510
void effects on large fast reactor, analysis of liquid sodium, 22:18569
worth calculation for control rod in cylindrical reactor, two-group method for interrupted, 22:35685
worth calculations for control rod groups in Agesta reactor, three-dimensional, 21:27760
worth calculations for control rods, boundary surface perturbation method for, 21:42751
worth calculations for fast breeder power reactor optimum fuel cycle, 23:23875(R) (BAW-3867-6)
worth calculations for fast critical assemblies, use of JEN computer program for, 23:21530
worth calculations for reactor materials, models for, (E/T), 21:1208 (LA-DC-7962)
worth calculations for small samples of reactor materials, 23:26086 (IN-1218, pp 1-56)
worth calculations for tubular control rods in beryllia-moderated pebble-bed reactors, 21:35537 (AAEC/TM-375)
worth calculations for water-moderated power reactor boron carbide (B$_4$C) cluster arranged cylindrical control rods, use of effective boundary conditions for, (E/T), 23:23879
worth determinations for reactor materials using method of statistical weights, (E/T), 22:27504
worth estimates for structures external to a NERVA reactor, (T), 21:38636
worth measurement in LMFBR plate-type core mockup, results of, 23:37461(R) (AI-AEC-12815)
worth measurements at high noise levels, low-background system for, 24:19271(P)
worth measurements for reactor control elements, prompt jump correction of inverse kinetics rod drop, (E/T), 24:29084
worth measurements for reactor materials, errors in calculation of, (T), 25:6168
worth measurements for SNAPTRAN-1 and SNAPTRAN-2 reactors, 21:35648 (NAA-SR-11850)
worth measurements for ZPR-3 Assembly 50, 24:47818 (ANL-7610, pp 61-258)
worth measurements in a clean fast assembly, comparison of ENDF/B and GAM data predictions to, 24:11306
worth measurements in heavy water moderated plutonium—uranium alloy fuel element clusters, oscillation method for, 24:43814 (EUR-4486)
worth measurements in ORR, 21:30260(R) (ORNL-TM-1881)
worth measurements in plutonium fueled fast critical assemblies, 21:35671 (ANL-7320, pp 107-15)
worth measurements in reactors, system for, 24: 46126(P)
worth measurements in subcritical assemblies of rod-type neutron absorbers, 22:27471
worth measurements in thermionic critical experiment, comparison with calculated values of fuel block removal, 23:37742
worth measurements in Thermionic Critical Experiment, errors in, 23:37646
worth measurements in uranium-235-polyethylene assemblies, 23:49398 (WASH-1127)
worth measurements in Zebra 6 mockup for PFR, 21: 35547 (ANL-7320, pp 216-30)
worth measurements in ZPR-3, changes due to material and temperature variation in, 21:35679 (ANL-7320, pp 345-9)
worth measurements in ZPR-3, integral transport theory analysis of small sample, 23:37469
worth measurements in ZPR-6 and ZPR-9, tabulation of central, 21:35684 (ANL-7320, pp 403-20)
worth measurements in ZPR-6, tabular summary of, 23: 4357
worth measurements in ZPR-9 for tungsten-based systems for rocket reactors, 21:35645 (ANL-7320, pp 186-93)
worth measurements of boric acid and nine-rod shim bank in EBWR, 21:42725(R) (ANL-7357)
worth measurements of core materials in Assemblies 4Z and 5 in ZPR-6 and Assembly 11 in ZPR-9, 21:35676 (ANL-7320, pp 231-6)
worth measurements of FTR control elements, use of ZPR-3 for, 24:18697(R) (BNWL-1304)
worth measurements of LMFBR samples in soft spectrum fast critical assembly, 23:11177 (AI-AEC-12705)
worth measurements of power reactor control elements, errors in rod drop, (T), 23:49658(T) (ORNL-tr-2221)
worth measurements of radial reflector for SEFOR mockup in ZPR-3, 21:35695 (ANL-7320, pp 569-84)
worth measurements of reflector voids in ZPR-9 Assembly No. 8, 21:44930 (ANL-7208)
worth measurements of reflectors in fast assembly, 23: 49398 (WASH-1127)
worth measurements of SEFOR initial loading core materials, 24:2035 (GEAP-10010-21, pp 24-53)
worth measurements of steel plate in axial heated loop in ZEBRA, 21:35680 (ANL-7320, pp 358-67)
worth measurements of two zone assemblies, integral transportation perturbation method for, (E/T), 23: 52448 (EURFNR-681)
worth measurements of various materials in FR-0, 21: 35673 (ANL-7320, pp 159-84)
worth measurements on material samples, use of collision theory for interpretation of, (T), 23:21547(T) (ANL-Trans-716)
worth measurements on Peach Bottom Power Reactor control rods and fuel, 21:35626
worth measurements on SEFOR core materials, (E/T), 24:13601(R) (GEAP-10010-22)
worth measurements on small samples, integral transport theory analysis of central, (T), 25:51236
worth measurements on small samples, integral transport theory analysis of, (E/T), 25:6187
worth of 300 MW(e) oxide fueled fast reactor control elements, effects of antishadowing and shadowing on, 23:37471
worth of alumina reflector material used in ZPR-9 assembly No. 9, 21:44930 (ANL-7208)
worth of boron sleeve in ZPR-9 Assembly No. 8 reflector, spatial dependence of, 21:44930 (ANL-7208)

worth of central and eccentric cylinder shaped control rod, pulsed neutron method for measurement of, 23:47337
worth of coke-dispersed HTGR-type reactor fuel elements, calculation of, 23:13412(R) (GA-8530)
worth of cruciform control rods in D-lattices, calculation by combination of collision probability and diffusion approximation methods, 23:2122
worth of few-plate control elements, 21:46877
worth of fissionable materials, measurement in graphite—uranium-233 critical assemblies of, 21:38711
worth of fuel mass and poison additions to UHTREX, 21:31941(R) (LA-3708(Pt.1))
worth of heterogeneous reactor control elements, two group approximation analysis of, (T), 23:52465 (UJV-2225-R)
worth of hydrogenous materials in reflector of ZPR-9 Assembly No. 6, 21:44930 (ANL-7208)
worth of material components in critical reactors, integral relation for statistical weights of, 22:35719
worth of materials near core boundary in ZPR-9 Assembly No. 8, 21:44930 (ANL-7208)
worth of plutonium—uranium samples in ECO critical assembly, use of reactor oscillation method for measuring, 23:37629
worth of sodium in Fermi Fast Breeder Reactor, 21:27767
worth of subcritical systems, method for determining, 22:32990
worth ratios of materials for fast critical assemblies, measurement of, 23:4356
worths and coefficients measurements in ROSPO, statistical evaluation of, 21:25718 (RT/FI-(66)37)
worths for Assemblies 19, 21, 22, and 24 of ZPR-9, tabulation of measured and calculated central, 23:49581 (ANL-7410, pp 73-227)
worths in Assemblies 12, 13, 14, 16, and 17 of ZPR-9, comparison of measured and calculated Doppler and central, 23:49581 (ANL-7410, pp 73-227)
worths in heterogeneous lattice cells, variational-iteration method for calculation of, 25:1963
worths in organic moderated lattices, comparison of measured and calculated, 22:50815
worths in Peach Bottom Power Reactor Unit 1, measurement of temperature and xenon, 23:9093 (GA-9047)
worths in radial blanket of EFFBR, measurement of, 21:35558 (ANL-7320, pp 605-28)
worths in Thermionic Critical Assembly, three-dimensional transport theory calculations of, 24:7282
worths in ZPR-3 Assembly 48, comparison of measured and calculated central, 23:37652
worths in ZPR-6, comparison of calculated and measured central, 24:7237
worths of boron in rocket reactor reflectors, 21:31996 (ANL-7207)
worths of boron in ZPR-9 Assembly No. 7, 21:44930 (ANL-7208)
worths of boron sleeve in ZPR-9 Assembly No. 6, 21:44930 (ANL-7208)
worths of boron—lucite mixtures in ZPR-9 Assembly No. 9, 21:44930 (ANL-7208)
worths of boron—lucite mixtures in ZPR-9 Assembly No. 8, determination of central, 21:44930 (ANL-7208)
worths of boron—lucite mixtures in ZPR-9 Assembly No. 7, determination of central, 21:44930 (ANL-7208)
worths of carbon, uranium, and polyethylene in FCX, comparison of measured and calculated values for, 23:37630
worths of central subassemblies at time of fuel element damage in Fermi Fast Breeder, 21:30094(R) (APDA-CFE-3)
worths of control rods for FFTF, two-dimensional transport models for calculation of, 21:46938(R) (BNWL-501)
worths of control rods for pulsed reactor, measurement of space-time variations of, 23:37641
worths of EBR-2 control rods, measured and calculated values of, 21:42725(R) (ANL-7357)
worths of EFFBR control rods and core, measurement of, 21:35558 (ANL-7320, pp 605-28)
worths of FTR materials, comparison of calculated and ZPR-3 measured, 23:37653
worths of fuel and blanket materials for Fermi Fast Breeder Reactor, 21:27767
worths of hydrogenous material in ZPR-9 Assembly No. 8, determination of central, 21:44930 (ANL-7208)
worths of hydrogenous materials in ZPR-9 Assembly 9, 21:44930 (ANL-7208)
worths of LMFBR materials, effects of temperature and swelling on, 23:11177 (AI-AEC-12705)
worths of materials at reactor center, normalized, 21:44930 (ANL-7208)
worths of materials, measurement of distributed, 21:35693 (ANL-7320, pp 550-9)
worths of nonhydrogenous material in ZPR-9 Assembly No. 8, determination of central, 21:44930 (ANL-7208)
worths of nonhydrogenous materials in ZPR-9 Assembly 9, 21:44930 (ANL-7208)
worths of nonhydrogenous materials in ZPR-9 Assembly No. 7, determination of central, 21:44930 (ANL-7208)
worths of polyethylene in ZPR-9 Assembly No. 7, determination of central, 21:44930 (ANL-7208)
worths of SPR II core components, 21:32016 (SC-RR-66-2643)
worths of ZPR-III Assemblies 48 and 48A samples, 21:31898(R) (ANL-7329)
xenon-power spatial transients in thermal power reactor, use of three-dimensional model for optimum control sequence of, (E/T), 22:39931

REACTIVITY MEASUREMENT FACILITY

reactivity worth in, effects of crystal or molecular structure on material, 21:42871 (IDO-17253)

REACTOR CONTAINMENT STRUCTURES

(Does not include reactor pressure vessels)
see also Pressure Vessels

aerosol behavior in, effects of accident conditions on, (T), 24:29038(R) (ORNL-TM-2919)
aerosol production and distribution in, 24:36356 (ORNL-4586, pp 98-117)
aerosol transport in condensing steam boundary layers, effects of variables on, (T), 24:46068 (BNWL-1125)
aerosols in liquid metal cooled fast reactor, distribution of accident released, (E/T), 25:60148 (AI-69-Memo-95)
air lock for, hydraulic motor driven door with counter weights for, 24:16329(P)
air locks for, coupled fastening mechanism for door pairs of, 25:60257(P)
aircraft crashes into, analysis of impact loadings from, 25:28611 (DOCKET-50289-34)
analyses of heavy-water gas-cooled power, 22:18449
behavior during earthquakes or faulting of power, effects of soil on dynamic, 23:11116 (HN-189(Rev.))
blast shields for, materials for, 22:2316 (IITRI-578-P-21-22)
blowdown tests in mockup of, results of transient, 22:10002(R) (IITRI-578-P-21-32)
bolts and studs for, cyclic stress limits of, 21:8124 (KAPL-M-6561)
cables for, protection of prestressing, 21:31951(T) (ORNL-tr-1690)
closure of reactor, material evaluation for O-ring, 21:21626 (APED-4856)
coating development for LOFT, 23:28522 (IDO-17258-I)
coatings for boiling and pressurized water, performance of protective paint, 24:33347
coatings for retaining fission-product iodine, use of polymers for, 23:34888
coatings for stainless steel, iodine and methyl iodide penetration of, (E), 24:22427(R) (IDO-17303)
coatings for, development of fission product adsorption, 23:33062 (BMI-X-10244)
coatings for, development of fission product adsorption, 23:33063(R) (BMI-X-10252)
coatings for, development of fission product iodine-retaining, 23:29142
coatings for, effects of accident conditions on protective, (E), 25:12804 (ORNL-TM-3104)
coatings for, effects of design basis accident conditions on hydrogen generation from point, 25:48291(R) (ORNL-TM-3411)
coatings for, effects of post accident conditions on protective, (E), 25:26006
coatings for, effects of steam, high temperature, and spray solutions on, (E), 25:6034 (ORNL-TM-2412(Pt.5))
coatings for, evaluation of commercial protective, 22:42191 (IN-1169)
coatings for, iodine and methyl iodide sorption by water based hydrazine-containing foam, 23:29143
coatings for, test procedures for evaluation of protective, 23:19513 (IN-1253)
compartmenting of, effects on gaseous fission product deposition of, 22:30121(R) (BMI-X-10229)
concrete for use in, properties of high temperature, 23:10309 (CEA-CONF-1091)
configuration of heat exchanger-draining gas-filled shock wave-attenuating, description of, 22:42566(P)
configuration of marine reactor pipe-connected valve-operated shell and enclosed ship inner bottom, description of, 22:48719(P)
configuration of Maritime Pressurized-Water Reactor accident fission gas release, engineering details and design criteria for, 23:2097 (TID-24753)
configuration of Maritime Pressurized-Water Reactor accident fission gas release, calculations for conceptual, 23:2098 (TID-24753(App.))
configuration of metallic rod-reinforced hollow interior concrete, use of rod-connected metal cover in, 22:37612(P)
configuration of spherical reactor energy absorption, hydrodynamic analysis of accidents in, (T), 22:48767
configuration of valve-controlled water-sealed and -shielded multiple vessel pressure-suppression-vented, description of, 22:44939(P)
configuration of Yugoslavia power reactors, comparison of three types of, 22:48666
construction for 1000 MW(e) HTGR, methods and economics of, 24:16122 (GA-9400(Vol.3))
construction in Canada of power reactor air tight concrete, 24:5513
construction methods for, discussion of, 22:14314
construction of concrete, for U.S. power reactors, 22:37472
construction of cylinder shaped multiple zone prestressed concrete, 24:22516(P)
construction of Fukushima Power Reactor Unit 1, 23:28374
construction of Gentilly Power Reactor prestressed concrete, methods and techniques for, 23:43053
construction of power reactor, 25:51061
construction of pressurized water, effects on plant schedule of, 23:43104
construction of prestressed concrete, for power reactors, 25:31552 (EUR-4531, pp 647-89)
construction of water cooled power reactor prestressed and reinforced concrete, practices and standards for, 23:47137 (TID-25176)
construction of, problems and trends of, 24:52856
construction of, use of concrete in, 22:48665
construction problems for Beznau Power Reactor Unit 1 double-type, 23:21423
construction problems with prestressed concrete, summary of, 23:28532
coolant loss accident condition testing of scale model, transient measurements for, 23:33066(R) (ORNL-4374)
coolant loss accident condition testing of scale model, transient measurements for, 23:33067(R) (ORNL-TM-2533)
cost and efficiency of prestressed concrete, for gas-cooled heavy-water reactor, 21:42781
decontamination effectiveness on painted and stainless steel-lined surfaces of LOFT, (T), 22:37532(R) (IDO-17242)
decontamination of, description of chemically removable coatings for, 22:50840 (IN-1170)
decontamination techniques for LOFT, 23:28522 (IDO-17258-I)
description of, 22:20955(P)
description of boiling water reactor, 22:30182
description of concrete-shield steel-shell, 22:32868
description of double-vessel liquid-filled pressure-vented, 22:16335(P)
description of double-wall, with inside-outside separation valves, 22:14212(P)
description of glass filament, for pressurized-water reactor, 22:37498(P)
description of hollow elliptical 70 and 45 m diameter prestressed concrete self-sealing, 22:18643(P)
description of inner surface sprays and cloth curtain for, 22:14336(P)
description of Japanese fast critical assembly, 22:18561
description of multi-cylinder concentric blankets for seismic protection, 22:14343(P)
description of Oskarshamn prestressed concrete, 23:4149
description of personnel escape device for, with vertical dropping hemi-spherical chamber and sealing trap door, 22:18650(P)
description of redundant spray cooled subatmospheric, 22:18596
description of underwater concrete, for large power reactors, 22:30221
description of water-cooled non-return vented double-vessel, 22:16234(P)
description of water-spray pressure-suppression chambers for, 22:18651(P)
description with water-sealed vent for reduction of initial pressure during accidents, 22:18639(P)
design and construction problems with prestressed concrete, summary of, 23:28532
design and seismic analysis of, structural dynamics method for, 24:22815
design by ASEA—ATOM, safety features of, 24:24866
design calculations for, techniques for, 22:3946
design characteristics of earthquake resistant floating, for power reactors, 25:60091(P)
design characteristics of prestressed concrete, 25:60256(P)
design criteria for Gentilly Power Reactor prestressed concrete, description of, 23:5979
design criteria for secondary, analysis of required structural, 23:21575
design for water-cooled reactors, missile generation and protection criteria for, 22:50739 (ORNL-NSIC-22)
design modifications for pressurized water power reactor pressure suppressing single and double shell, 23:40375(P)
design of, 21:44898(P)
design of 800 MW(e) pressurized-water power reactors prestressed concrete, U.S.A. requirements for optimum, 22:53317
design of advanced gas-cooled, safety evaluation of, 22:18453
design of aircraft, impact speed and angle criteria for, 25:60192 (N-71-25411)
design of concrete, 21:12171
design of concrete secondary, 25:28831(P)
design of double, 21:12170
design of earthquake resistant, 25:25950
design of earthquake-resistant, seismic testing for, 22:23184
design of JPDR, seismic aspects of, 21:14011
design of power, systems approach to, 22:18440
design of pressure suppression type, for mobile reactors, 23:37679(P)
design of pressurized water, review of variations in, 24:4010
design of prestressed concrete pressure, 22:3962(P)
design of prestressed concrete, engineering aspects of reference, 25:51133 (BC-TOP-5)
design of prestressed concrete, for 600 MW(e) boiling water reactors, 25:31551 (EUR-4531, pp 615-45)
design of prestressed concrete, for Gentilly power station, 22:25033
design of prestressed concrete, for Robert E. Ginna Power Reactor Unit 1, 22:18469
design of prestressed concrete, for Robert E. Ginna Nuclear Power Plant, 24:354
design of prestressed concrete, for Robert E. Ginna plant, 24:4006
design of reinforced concrete, 21:23697(P)
design of Robert E. Ginna Power Reactor Unit 1, 23:28393
design of sodium cooled fast, (T), 25:28739 (RT/ING-(70)25)
design of water cooled power reactor prestressed and reinforced concrete, practices and standards for, 23:47137 (TID-25176)
design of, effects of seismic criteria on, 24:18531
design of, problems and trends of, 24:52856
design of, structural considerations in, 22:10013(T) (AEC-tr-6722)
design parameters for antiseismic, review of, 23:33066(R) (ORNL-4374)
design parameters for conceptual 1000 MW(e) HTGR, 23:45053(R) (GA-9372)
design parameters for Fast Test Reactor, 23:15673(R) (BNWL-541)
design parameters for fixed shield plug vertical core FFTF, 23:31192 (APDA-187)
design parameters for French and British prestressed concrete, tabular summary of, 22:53471
design parameters for Japan marine reactor, model study for optimum, 24:2047
design parameters for liquid sodium cooled fast test reactor, 25:60188

design parameters for Oyster Creek Power Reactor Unit 1 primary and secondary pressure suppression, 23:23839
design parameters for Shoreham Unit 1, prestressed concrete composite, 23:28398
design parameters of Beznau Power Reactor Unit 1, 23:34893
design parameters of double concentric, 25:54293(P)
design parameters of Phenix Fast Reactor, 23:45038
design pressures for vented, calculation of optimum, 24:50150 (AHSB(S)R-187)
design problems and solutions for prestressed concrete, 23:21470
design requirements and problems for water and gas cooled reactors, summary of, 23:28534
design with inner flexible vessel connected to pressure suppression chamber, 22:10102(P)
designs for prestressed concrete, safety features and requirements for, 23:2061
designs for reactor explosions, review of, 21:30989 (AERE-M-1471)
designs of prestressed concrete, summary of problems associated with corrosion protection of tendons in, 23:2061
designs of, analysis of antiseismic, 22:7816(R) (ORNL-TM-2057)
development of prestressed concrete, summary of, 22:53471
development of steel and composite steel—concrete, for water cooled power reactors, 24:46029
dry well and liquid filled concrete, description of three section pressure actuated conduit connected, 23:37845(P)
effects on safety factors for power reactor siting, 22:18439
electrical penetration assemblies for, standards for, 25:51109
electrical penetrations of, design requirements for, 24:13645
emergency cooling system for, with pressure actuated overhead spray nozzle, 23:49673(P)
engineered safeguards equipment in, effects of post accident environments on performance of, (E), 25:57097 (WCAP-7744)
explosion testing of, structural response to, 22:14298(T) (ANL-Trans-555)
fabrication of power reactor, 25:51061
fabrication of steel, procedures for, 25:20715
fabrication techniques and requirements for Europe power reactors, description of, 23:2044
fission product deposition in, effects of heat transfer characteristics on, (T), 25:60111(R) (BMI-1917)
fission product deposition in, heat transfer model for analysis of iodine, 25:37036(R) (BMI-1904)
fission product deposition on stainless steel lined, testing of accident release conditions for, (E), 25:18176 (ORNL-4502)
fission product deposition on walls of, effects of steam—air atmosphere on, (T), 24:50078
fission product dispersion from, method for estimating, 22:18438
fission product holdup in leak paths in, decontamination factors for, (E), 25:44134 (BNWL-1582)
fission product removal from, effectiveness of aqueous sprays for, (E), 25:25995
fission product removal from, effectiveness of sprays for, (E/T), 25:25991
fission product removal from, spray additive system for, 24:38555 (CONF-700608-4)
fission product transport in steam-air atmospheres in, prediction of time-dependent, (E/T), 23:15652 (BNWL-943)
fission product transport in, development of analytical models to describe, 22:7816(R) (ORNL-TM-2057)
flaw transducers for, 23:41131(R) (IDO-17299)
force sensors for, fabrication and calibration of, 22:10002(R) (IITRI-578-P-21-32)
heads for metal cylinder shaped, calculation aids for design of torispherical, 25:54291 (RT/ING-(71)4)
heat transfer coefficients for condensing steam in, analysis for coolant loss accident conditions of, (E/T), 24:50127 (IN-1388)
hydrodynamic analysis for energy absorption, (T), 22:48767
hydrodynamic response to high-energy excursions, (T), 22:24925(R) (ANL-7427)
impact testing of compact mobile, high-speed, 25:41584
instrumentation for prestressed concrete, techniques for installation of, 23:21574
insulation of prestressed concrete, free convection effects in, 23:4475
iodine deposition in, 24:36356 (ORNL-4586, pp 98-117)
iodine deposition in Amercoat 66 lined, (E), 24:52951 (ORNL-TM-3122)
iodine penetration in protective coatings in, 22:2713 (IN-1095)
iodine removal from water-cooled, experimental determination of, 22:18459
iodine removal from, effectiveness of sodium thiosulfate spray system for, (E/T), 25:25993
iodine transport in, natural convection model for predicting elemental, 23:4279
jet force effects on dry well, displacement and strain in, (E), 25:54304
leak detection and location system for dual walled, 23:40497(P)
leak detection methods for welded, comparison of, 23:24031
leak monitoring of power, method for, 25:51017
leak rate test for pressurized water power reactor, 25:60000
leak rate testing of, absolute temperature—pressure method for, (E/T), 24:47886
leak rate testing of, bibliography on, 25:26073 (AAEC/LIB/Bib-272)
leak rate testing of, krypton-85 tracer technique for, 25:41556
leak rate testing procedures for, comparison of, 24:28979
leak rates in, methods for measurement of, 24:13524(T) (ORNL-tr-2244)
leak rates of, effects of pressure, temperature, and accident conditions on, (E/T), 24:38578 (IN-1399)
leak testing and surveillance requirements for, 22:3846 (TID-24085)
leak testing for, effects of temperature sensor radiation heating on errors in, (T), 24:47877 (ANL-7610, pp 259-367)
leak testing of floating-roof, methods for dynamic and static, 24:39111(R) (HUX-3807-3)
leak testing of steel, 24:24774
leakage from cracked concrete, effects of accident conditions on, 25:23308 (CONF-700816-(Vol.2), pp 817-23)
leakage from simulated pressure-type, under maximum credible accident conditions, 22:30272
leakage from, effects of temperature and pressure on, 23:4301(R) (BNWL-894)
leakage from, flow analysis for viscous, turbulent, and orifice, (T), 25:18244 (WHAN-SA-40)
leakage from, testing for, 23:11251(R) (BNWL-433)
leakage of, errors in estimating, 21:23751
leakage rate test of PRTR, 21:44933 (BNWL-504)
leakage rates of, effects of post-accident atmosphere and temperature on, (E), 25:23307 (BNWL-1475)
leakage tests on, review of criteria for, 25:5938
liner plate anchors for prestressed concrete, deformation of stud and rib type, (T), 25:56995
liners for concrete, gas diffusion measurements on plastic, 23:18287
liners for prestressed concrete, matrix displacement method for buckling analysis of, 25:56994
liver plate anchors for prestressed concrete, stress analysis and deformation characteristics of, 25:51250
loading conditions from explosive accidents, calculation from underwater TNT explosion of, 25:28733 (BAW-1352)
loads on, analysis of severe accident, 21:14015
mechanical properties of prestressed concrete, effects of thermal stress on, 22:18589(T) (ORNL-tr-1876)
melt-through in coolant-loss accidents, unenriched uranium oxide (UO_2) barrier for prevention of, (T), 22:44861
membrane shear stresses for resisting earthquake forces in reinforced concrete, recommended allowable limits on, 24:11216 (SWND-5)
methyl iodide removal from atmospheres in, use of activated carbon for, 22:18460
methyl iodide removal from, effectiveness of reactive hydrazine sprays for, (E), 22:44810 (BNWL-SA-1736)
motion of large base mass, effects of seismic forces on, (T), 24:26838 (TID-25394)
penetration for electric cables, method for, 24:7558(P)
penetration for remote handling device in, description of hermetically sealed, 24:36096(P)
penetrations in NASA Research Reactor, performance of hermetic seals for, 23:26099
penetrations in primary, design standards for instrument line, 25:28678
penetrations in, development of high voltage power cable porcelain, 25:12705 (JAERI-Memo-4197)
penetrations in, effectiveness of hermetically sealed, 23:28631 (N-69-17701)
penetrations in, wire termination techniques and fault current determinations for design of electrical, 23:31238 (CONF-690113-3)
performance of liquid metal cooled fast breeder reactor, effects of accidents on, 25:57069(R) (ANL-7800)
performance of mockup, analysis of steam-gas mixture injection under water for measuring, 22:25098(R) (ORNL-TM-2164)
performance of prestresed concrete, for 600 MW(e) boiling water reactors, 25:31551 (EUR-4531, pp 615-45)
performance of prestressed concrete, for power reactors, 25:31552 (EUR-4531, pp 647-89)
performance of primary, effects of excursions on inelastic response, (E/T), 25:46338 (ANL-7499(Suppl.))
performance of primary, effects of high energy excursions on inelastic response, (T), 24:20643 (ANL-7499)
performance of, effects of internal explosions and pressure waves on, (E/T), 25:57070 (CEA-CONF-1796)
pressure differentials across power, model for calculating, 22:18446
pressure distribution in ORGEL Reactor, CROOC computer program for accident, 23:33065 (EUR-4253)
pressure distribution in pressurized water power reactor, effects of coolant loss conditions on, (T), 24:47881(R) (IN-1320)
pressure in pressurized water, effects of coolant loss accidents on maximum, (T), 25:41455 (IN-1468)
pressure loss in boiling, effects of sudden, 24:13524(T) (ORNL-tr-2244)
pressure responses of pressurized water, CONTEMPT computer program parametric analysis for, 23:40374 (IDO-17300)
pressure suppressing double wall hemispherical dome, for pressurized water reactors, 23:52365(P)
pressure suppression in, steam condensation by reservoir of low specific gravity liquid for, 24:4082(P)
pressure suppression system for, description of, 22:33119(P)
pressure suppression, description of liquid reservoir, 24:16332(P)
pressure vessel with heat-shock absorbing plates spaced on inner surface, description of, 22:7870(P)
pressures in pressurized water, following coolant loss accidents, (T), 25:31593 (CONF-710302-9)
prestressing reinforcements with strength greater than 100 tons for, 21:1185(T) (ORNL-tr-1354)
prestressing systems for power reactor primary and secondary concrete, 23:21432
radiation testing of aluminous concrete, 24:14988 (CEA-CONF-1474)
radioiodide removal from atmospheres in French, methods for, 22:18463
rare gas removal from, following nuclear accident, evaluation of permselective membranes for, 25:29317 (ORNL-4522)
reactor accident effects on primary, fluid dynamical analysis of, 21:27775
relationship of double, and aerosol behavior to large fast breeder reactor safety, 22:7805 (EURFNR-425)
reliability analysis of, 25:6190 (RISO-214, pp 71-90)
reliability analysis of double shell, 25:6190 (RISO-214, pp 71-90)
response during steady state vibration testing, 23:4280
response of finite circular cylindrical, calculation of dynamic elastic, 22:7788(R) (ANL-7382)
response of PEC, to seismic soil movement, (E), 24:11270 (RT/ING-(69)5)
response to ground motions, effects of foundation conditions on, 24:46403
roof for fast liquid sodium cooled, design of, 24:36014(P)
safety aspects of prestressed concrete, summary of, 23:28532
safety of, momentum equations in finite difference form for calculation of, 22:9988(R) (ANL-7391)
seal for walls of, design of quick-acting, 22:8288(P)
seals for cable penetrations, performance of epoxy, 24:2071
seismic analysis of equipment mounted in, (T), 24:24862
seismic analysis of, mathematic model for, (T), 24:24863
seismic design criteria for, ambient vibration survey for analysis of, 25:8105 (IDO-ES-616)
seismic effects on, model studies of, 25:54305
seismic stress limitations for, (T), 24:24864
sorption systems for pressurized-water and boiling reactor, development of high efficiency spray and pool, 23:23940 (ORNL-4360)
specifications for Elk River, suggested changes in, 21:23618 (SwRI-1228-P-4-29)
spray systems for pressurized water reactor, development of fission product removing, 25:60086
spray systems for, technology program for, 23:29128
standards for carbon and low alloy steel, for operation at less than 300°C, 22:14330
standards for steel, U. S, 25:25952
strain dynamics analysis under internal blast loading, effectiveness of reduced-scale model tests for, (E/T), 22:44918 (CONF-660669-1)
strength of cylindrical steel, (E/T), 21:2843
strength of, estimation for safety of nuclear power plants, 21:4385
stress analysis for drywell, use of computers for, 23:2140
stress analysis of dome-shaped prestressed concrete, (T), 24:9560
stress analysis of power reactor prestressed or reinforced concrete, effects of aircraft crash impact forces on, 23:21431
stress analysis of vertical buttresses of prestressed concrete, Gauss—Seidel iterative procedure for, 24:24929
stress analysis of, lumped parameter method for, (T), 24:24931
stress in reinforced and prestressed concrete, effects of aircraft impact on, 24:24870
stress loading requirements for liquid sodium cooled fast test reactor, 25:60188
stress state of concrete, evaluation of safety margin of triaxial, 25:55659
stress wave propagation in, SWIMM computer program for calculation of, 23:7659 (IITRI-578-P-21-10)
stresses in cylindrical, conference on methods for analysis of, 25:54054
stresses in water cooled, effects of coolant loss accidents on, (E/T), 24:36047(R) (IN-1319)
stresses in, effects of combustion of liquid sodium coolant on, 24:43787(T) (EURFNR-754)
suppression tanks for, description of pressure, 22:33119(P)
temperature distribution and pressure calculations for FARET, 21:42832
temperature distribution in ORGEL Reactor, CROOC computer program for accident, 23:33065 (EUR-4253)
testing for air leakage of Containment Systems Experiment, (E/T), 24:4086 (BNWL-1028)
testing of CVTR, analysis of leakage rate, 24:11096 (IN-1326)
testing of power reactor, 25:51061
testing of prestressed concrete, instrumentation for, 25:29303
testing of spherical models for mobile plants, impact, 25:23383 (N-71-10987)
testing of steel, procedures for, 25:20715
testing of, model analysis for pressure suppression, 23:37583
testing of, standards for leak rate, 25:31672
testing scale model pressure suppression, analysis of methyl iodide absorption in coolant loss accident, 24:4076(R) (ORNL-TM-2425)
testing scale model pressure suppression, schedule and equipment design for coolant loss accident condition, 24:4075(R) (ORNL-TM-2368)
thermal insulation for liquid sodium cooled, description of liquid sodium, 25:10199(P)
thermal insulation for prestressed concrete, design characteristics of metal gauze and foil, 23:28640
tornado effects on water cooled power reactor fuel storage pool, 23:37429
transient effects on dry well, analytical model for pressure and temperature, (E/T), 25:10232
vapor container leak rate test for CVTR, 21:7864 (CVNA-266)
ventilation system for water cooled reactor, for hydrogen removal, 25:34379(P)
vibration of, model analysis of earthquake actuated, 23:24033

walls in prestressed concrete, advantages and economics of using heated, 23:28533
water-seal for spherical, description of water-containing suppression chamber for actuating, 22:37588(P)
water-seals for, description of water-containing suppression chamber for actuating, 22:37581(P)

REACTOR CONTAINMENT SYSTEMS
(Including all components except containment shells)
see also Containment Systems Experiment
see also Reactor Containment Structures

aerosol behavior in, after accident, 24:16218 (ORNL-4400, pp 127-33)
aerosol distribution in water cooled reactor, effects of accident conditions on radioactive, (E/T), 25:20758 (CONF-700816-(Vol.1), pp 72-101)
aerosol distribution in, effects of coolant loss conditions on solid, 24:4075(R) (ORNL-TM-2368)
aerosol removal by water cooled reactor, effects of coolant loss accident conditions on radioactive, (E), 25:20782 (CONF-700816-(Vol.1), pp 102-27)
aerosol settling rate in, 24:16218 (ORNL-4400, pp 127-33)
air cleaning at high temperatures and pressures in, performance of filters for, 24:16328
air cleaning processes for, following accidental sodium release, 24:33861(R) (NYO-841-22)
air cleaning systems for, aging and weathering effects on activated carbon beds in, 23:24024 (CONF-680821-, pp 170-84)
air cleaning systems for, development of absorbers and filters for, 23:23936 (CONF-680821)
air cleaning systems for, efficiency of synthetic inorganic zeolite iodine adsorption beds in, 23:24025 (CONF-680821-, pp 185-203)
air cleaning systems for, γ radiation effects on iodine and methyl iodide adsorption on activated carbon beds in, 23:23937 (CONF-680821-, pp 204-26)
air cleaning systems for, heat degradation and service life of activated carbon beds in, 23:24023 (CONF-680821-, pp 167-9)
air cleaning systems for, In-Place Iodine Removal Efficiency Test for activated carbon filters in, 23:24028 (CONF-680821-, pp 335-8)
air cleaning systems in, fission product removal by, (E/T), 24:36044(R) (BNWL-1315-2)
air cleaning systems in, performance of internal recirculating, (E/T), 25:26002 (BNWL-SA-3355)
air sampler for, development of silver plated aluminum inlet for May pack, 23:24026 (CONF-680821-, pp 235-62)
air samplers for, performance of inorganic adsorbers to identify inorganic and organic iodides in two-component, 23:24029 (CONF-680821-, pp 354-61)
air-cleaning systems for, summary of applications of, 22:46912 (ORNL-NSIC-25)
atmosphere sampling in, monitoring equipment for continuous, 25:23331 (CONF-700816-(Vol.2), pp 668-82)
bibliography on filters for, 22:24962 (HMI-B-68)
bibliography on, July 1968, 22:42203 (ORNL-NSIC-45)
blast energy absorption by, core vessel top shield assembly for, 25:10247(P)
blowdown effects on, use of shock tube mockups for determination of, 22:39775(R) (IITRI-578-P-21-35)
calculations of accident loadings to evaluate fast, ASPRIN computer code for, 24:16213 (BNWL-1166)
cleanup system in FFTF, design parameters for pebble bed heat sink and bag filter in, (T), 23:21517 (NYO-841-17)
coatings for, effects of temperature on liquid-phase iodine deposition on, 22:14132(R) (BMI-X-10213)
coatings for, iodide ion deposition on, 22:22657(R) (BMI-X-10222)
coatings for, iodine deposition on, (E), 22:42161(R) (BMI-X-10237)
coatings for, liquid-phase deposition of cesium ions from aqueous cesium chloride on, 22:30121(R) (BMI-X-10229)
coatings for, liquid-phase hydrogen iodide deposition on, 22:30121(R) (BMI-X-10229)
coatings for, methyl iodide and elemental iodide sorption on, 23:31180(R) (BMI-X-10257)
coatings for, methyl iodide deposition on, 22:14132(R) (BMI-X-10213)
coatings for, removal of iodine and methyl iodide by scavenger, (E/T), 22:42161(R) (BMI-X-10237)
conference on, summary of third IAEA, 22:20858
configuration of inert gas fission-product-removal, description of detector-actuated, 23:2141(P)
configuration of multiple vent-tube-connected suppression tanks for, description of, 22:47059(P)
configuration of power reactor lower pressure suppression chambers and upper spray ejectors, description of, 22:50755(P)
configuration of pressure chamber and melting ice pressure suppression, description of pressurized-water reactor, 22:48674(P)
construction of 50 MW(e) Dodewaard Power Reactor, description of, 23:9091(R) (EUR-4069)
construction of Dodewaard Power Reactor, during 1967, 23:19397(T) (AEC-tr-7032)
construction of power, evaluation of problems in, 22:22719
construction practices for U.S., review of, 23:34889
contamination control of sodium fires in liquid metal cooled, design requirements for, 25:6049
controlled flow with blow-off valve in water-cooled reactor primary and secondary, description of baffled, 22:30277(P)
coolant loss accident effects on water-cooled, analysis of, 22:48660
coolant loss effects on pressure suppression type, computer program for calculating pressure-temperature history for, 23:31184 (IDO-17252)
cooling sprays for, efficiency for air-cleaning of, 22:46912 (ORNL-NSIC-25)
cover gas for pressure suppression, comparison of reactive atmosphere with inert, 23:52362 (APED-5654)
description of accident gas release for, with pipe vent pressure equalizer, 22:3964(P)
description of basic types for nuclear power plants, 23:6016
description of boiling water reactor, 22:30203
description of dry pool, for accident flooding, 22:7873(P)
description of dry pool, for dual-pipe accident flooding, 22:7865(P)
description of dry pool, for fluid condensing, 22:7864(P)
description of hydraulic water sprays from rupture pressure release drive for, 22:14338(P)
description of ice condenser-type, for Donald C. Cook Power Reactor Units 1 and 2, 22:32867
description of liquid metal cooled and fast, 22:7792 (BNWL-477)
description of Oconee Power Reactor Unit 1, 23:21413 (DOCKET-50269-6)
description of sub-atmospheric container with pressure relief valve-connected, for gas tight atmospheric reactors, 22:30401(P)
description of water-cooled reactor engineered safeguards, 22:27444
design analysis of NERO Marine, final, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
design characteristics of ice condensers, for pressurized water reactor, 25:54121(P)
design characteristics of spray additive, 24:33338
design characteristics of, comparison of, 24:11219
design considerations for spray, for pressurized water reactors, 23:31172 (ORNL-TM-2412(Pt.1))
design drawings of NERO Marine, final, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
design features of the ice condenser, 23:28396
design for 1000 MW(e) steam cooled fast breeder, effects of maximum credible accident on, (T), 25:28738 (NP-18781)
design for large boiling water power reactors, 23:15564
design of fast breeder, effects of vented plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel elements on, 23:47090 (ANL-7520(Pt.2), pp 154-66)
design of ice condenser for pressurized water reactor, 25:28700(P)
design of power reactor, problems and requirements for standardization of, 24:18607
design of pressure venting, for marine reactors, 23:37680(P)
design parameters for coolant inlet valve, for boiling reactors, 24:47846(P)
design parameters for FTR, effects of cermet, metal alloy, mixed-carbide, and mixed-oxide core meltdown on, 23:21509 (APDA-208)
design parameters for heavy water moderated boiling power, 24:20586
design parameters for pressure suppression, current state-of-the-art of, 23:21569
design parameters for, analysis of, (T), 22:39908
design parameters of pressure suppressing and steam condensing, for pressurized water reactors, 25:12802(P)
design parameters of spherical pressure suppression, for water cooled reactors, 24:31077
design parameters of valve regulated pressure suppression, for pressurized water reactors, 24:38563(P)
design practices for U.S., review of, 23:34889
design requirements for core melt-through accident in liquid metal cooled fast breeder reactor, 25:57093 (ORNL-TM-3504)
design with means for using primary coolant as emergency core coolant, 25:10231(P)
designs for British power reactors, descriptions of, 22:18458
designs of multibarrier power, description of, 24:18689
development of borated ice condenser, for pressurized water power reactors, 24:22375
development of French, program for, 22:18456
development of ice condenser, for pressure suppression following accidents, 24:20590
development of pressurized water reactor sprays for, review of programs for, (E), 24:22442
development of water-cooled reactor coolant-loss spray cooling, model studies for, (E/T), 22:48777
development of, research program in Italy for, 24:33346
effects on power reactor siting of engineered safeguards and, analysis of, 22:18447
engineering aspects of, notes for safety lectures on, 23:2057 (NP-17649(Vol.1))
evaluation of subatmospheric-type, 22:32864
evaluation of various concepts of, 22:25022
evolution of, state-of-the-art survey of, 23:37601
failure of power, review of methods for radioactivity control following hypothetical, 22:46914 (ORNL-NSIC-27)
filter systems for water cooled and liquid sodium cooled, development of air cleaning charcoal, 23:23926 (CONF-680821-, pp 13-26)
filter systems for, methyl iodide removal efficiency of activated carbon, (T), 25:60088
filters for plutonium production reactors, performance limits for activated carbon, 25:23387 (CONF-700816-(Vol.2), pp 539-50)
filters for water cooled reactor, performance for aerosol removal of fibrous, 24:33335 (ORNL-4524)
filters for, development of aerosol, 23:24018 (CONF-680821-, pp 65-78)
filters for, effect of spray solution on methyl iodide trapping by iodized charcoal, (E), 24:11215 (ORNL-TM-2805)
filters for, effects of iodine decay heat on performance limits of charcoal, 25:31669 (ORNL-4602)
filters for, effects of MCA conditions on efficiency of iodine, (E), 23:28630 (KFK-858)
filters for, performance of molded polyvinyl chloride and neoprene gaskets for HEPA, 23:24021 (CONF-680821-, pp 109-47)
filters for, physical properties and performance of materials for aerosol, 23:24019 (CONF-680821-, pp 79-85)
filters for, redeveloped procedures for water repellency testing of HEPA paper, 23:24020 (CONF-680821-, pp 86-108)
fission product behavior in, effects of vessel size on, 22:20855
fission product concentration following coolant loss accidents in, methods for reducing, 22:46912 (ORNL-NSIC-25)
fission product deposition under natural response conditions in, development of mathematical model for, 23:52394
fission product distribution in water cooled reactor, effects of coolant loss accident conditions on, (E), 25:51107 (IN-1394)
fission product entrainment by pressure suppression pools in, (T), 24:43783(R) (BMI-1885)
fission product iodine removal in, efficiency of adsorbents for, 23:24022 (CONF-680821-, pp 149-66)
fission product mass transport in, model for prediction of natural, 23:9183(R) (BNWL-816)
fission product monitoring in atmosphere of, continuous sampler—monitor for, 24:41654 (IN-1309)
fission product release and transport in, analysis of accident, 25:31617
fission product removal by ice condenser, effects of absorbent solutions in ice cubes on, (E), 25:60124
fission product removal by ice from, effects of sodium thiosulfate additives on, (E), 25:48289 (ORNL-TM-2412(Pt.9))
fission product removal by pressure suppression pools in, effects of sodium metavanadate ($NaVO_3$) on methyl iodide, (E), 25:46279 (GEAP-13193(Add.))
fission product removal by water cooled, MIRA code for analysis of iodine, 25:54152 (BMI-1915)
fission product removal from vented, 22:18462
fission product removal from, effectiveness of aqueous spray solutions for, (E), 25:25999
fission product removal from, effectiveness of reactive foams for iodine and methyl iodide, 23:2059 (NYO-841-14)
fission product removal from, effectiveness of spray systems for, 24:43784 (CONF-700608-13)
fission product removal from, effectiveness of spray systems for gaseous, 23:9182(R) (BNWL-754)
fission product removal from, effectiveness of spray systems for gaseous, 23:9183(R) (BNWL-816)
fission product removal from, effectiveness of spray systems for gaseous, 23:11252(R) (BNWL-926)
fission product removal from, effectiveness of spray systems for gaseous, 23:11251(R) (BNWL-433)
fission product removal from, effectiveness of sprays for iodine, (E/T), 25:51108 (ORNL-4623)
fission product removal from, effects of drop size on effectiveness of sprays for, (T), 24:41035 (CONF-700608-5)
fission product removal from, effects of sodium hydroxide and sodium thiosulfate additives on sprays for, (E), 25:10256 (BNWL-1485)
fission product removal from, efficiency of reactive solutions for iodine and methyl iodide, 23:43134 (ORNL-TM-2412(Pt.2))
fission product removal from, performance of activated carbon filters for methyl iodide, (E), 24:22430 (NACAR-10003)
fission product removal from, selective permeation membranes for krypton and xenon, 25:34692(R) (NYO-4057-2)
fission product removal in, foam encapsulation and cryogenic bed adsorption systems for noble gas, (E), 24:38560(R) (DUN-6653)
fission product transport and deposition in, analytical description of, 22:5960
fission product transport from vapor—noncondensable gas mixtures to containment vessel walls, effects of condensation on, (T), 23:15666
gas control methods for water cooled power, design standards for coolant loss accident, 25:28702
hydrodynamic response of primary, effects of high energy excursion on two-dimensional, (T), 24:29033 (ANL-7498)
hydrodynamic response to high-energy excursion, 22:16265(R) (ANL-7403)
hydrogen production from radiolysis of spray solutions in, effects of additives on post-accident, (E), 24:52951 (ORNL-TM-3122)
hydrogen production in pressurized water, effects of coolant loss accident conditions on, (E/T), 24:38571 (CONF-700608-12)
ice condenser for, description of support structure for, 25:37150(P)
integrity of pressurized-water, during coolant-loss accidents, 22:5978
iodine deposition in, effects of accident conditions on, 22:22749
iodine distribution between air and water in, 24:9435 (ORNL-TM-2412(Pt.4))
iodine in, charcoal adsorption efficiency for, 24:11666
iodine reactions in, 24:13999 (ORNL-4400, pp 134-41)
iodine removal from, 23:2372 (IN-1224)
iodine removal from, by sorption on charcoal, 24:20844 (BNWL-1046)
iodine removal from, by sorption on zeolites, 25:8321(R) (IN-1363)
iodine removal from, effectiveness of spray systems for gaseous, 23:23935(R) (BNWL-1009)
iodine removal from, efficiency of charcoal for, 24:41242(R) (CEA-N-1246)
iodine removal from, inorganic adsorbers for, 25:21078 (CONF-700816-(Vol.2), pp 568-80)
iodine removal from, performance of water pools and reactive sprays for, (E/T), 25:25997

iodine removal from, spray for, 21:8815
iodine removal from, theoretical studies on spray system for, 24:4353(T) (ORNL-tr-2255)
iodine removal using water sprays, 23:29128
iodine retention by activated carbon in, 24:7484(R) (DP-1213)
iodine vapor removal from, use of activated charcoal filters for, 22:50872
iodine-131 content in, system for determination of, 24:43967
iodine-131 release in, behavior patterns of accidental, 23:26062
iodomethane removal from, efficiency of charcoal for, 24:41242(R) (CEA-N-1246)
krypton removal from atmosphere in, using cellulose acetate membranes, 24:9434(R) (NYO-4057-1)
leak analysis of SNAP 8 (S8DR) primary and secondary, description of, 23:11310 (NAA-SR-Memo-11373(Add.1))
leak rate for design basis accident in liquid metal-cooled fast breeder reactor, agglomeration modeling for effects of aerosol particle size on, 23:23938 (CONF-680821-, pp 330-4)
leak rate measurements for ice condenser pressure suppression system in pressurized water, 24:47877 (ANL-7610, pp 259-367)
leakage rate measurement system for CVTR, efficiency of continuous, 23:1979 (IDO-17273)
leakage rate testing for water cooled power, evaluation of results and procedures for, 23:33074
leakage rates for, comparison of methods for determining, 22:32735 (ANL-7310, pp 249-375)
leakage rates from, required temperature sensor distribution for determining, 23:49572 (ANL-7410, pp 229-337)
methyl iodide behavior in, bibliography on, 22:12060
methyl iodide removal from, 21:8449 (BNWL-319)
methyl iodide removal from flowing steam—air in, testing iodized charcoal for, 24:7487 (ORNL-TM-2728)
methyl iodide removal from, by reactive sprays, rate-controlling processes in, 24:2292
methyl iodide removal from, by sorption on charcoal, 24:20844 (BNWL-1046)
methyl iodide removal from, effectiveness of hydrazine sprays for, 23:2053(R) (BNWL-885)
methyl iodide removal from, effectiveness of hydrazine sprays for, 23:9183(R) (BNWL-816)
methyl iodide removal from, efficiency of sprays for, 22:42160(R) (BMI-1844)
methyl iodide removal from, performance of activated charcoal filters for, (E), 25:18147
methyl iodide removal from, use of hydrazine sprays for airborne, 22:5965
methyl iodide washout by hydrazine sprays from, 22:14477(R) (BNWL-530)
modification of Trino Power Reactor, effects of vented plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fuel elements on, 23:47090 (ANL-7520(Pt.2), pp 154-66)
moisture separators for, design parameters for, 23:24017 (CONF-680821-, pp 56-64)
monitoring of, design of continuous sampler—monitor for, 24:25169
operations experience with inert atmosphere in Peach Bottom Unit 1, 23:15569
performance capabilities of pressure suppression/gravity flooding, (T), 24:47880 (GEAP-5536)
performance characteristics of recirculation type, with filtration and ventilation, 24:36037 (AHSB(S)R-185)
performance of boiling reactor pressure suppression, scale model test of fission product removal, 25:39257 (GEAP-13172)
performance of boiling water power reactor pressure suppression, during coolant loss accident, 25:54118 (NEDO-10320)
performance of carbon filters of, effects of nitrogen dioxide and time on iodine and methyl iodide adsorption, 25:48327(R) (DP-1271)
performance of crushable shield, (E/T), 23:26490 (EUR-4101, pp 221-49)
performance of ice condenser, analysis of iodine removal, 24:33340
performance of ice condenser, effects of alkaline additives and design parameters on iodine removal, (E), 24:38558 (CONF-700608-16)
performance of liquid metal-cooled fast reactor, effects of sodium burning and aerosol release on, 22:32783 (ORNL-TM-1937)
performance of power reactor, review of accident condition iodine-131 and methyl iodide removal, 23:26057 (UJV-2114-Ch)
performance of pressure suppression, effects of coolant loss conditions on methyl iodide sorption, 24:29038(R) (ORNL-TM-2919)
performance of pressurized water reactor, during coolant loss accident conditions, (E), 25:54155 (BNWL-1592)
performance of Savannah River Production Reactors, 23:15707 (DPSPU-68-30-4)
pool suppression systems for, efficiency of fission product removal by, 24:11214(R) (ORNL-TM-2777)
pressure buildup following coolant loss accidents, ZOCO II code for, 25:1911 (MRR-66)
pressure history during coolant loss accidents, 22:39774 (IDO-17272)
pressure loadings on fast, measurement of accident-induced, 22:22655 (AWRE-R-5/65)
pressure profiles in pressurized water reactor emergency core cooling system, effects of blowdown on, 24:22427(R) (IDO-17303)
pressure suppression chamber for, description of pipe connected water contact steam, 22:10090(P)
pressure suppression chamber for, description of steam filled dry well connected, 22:10101(P)
pressure suppression device with excess flow limiting baffle for, 24:16222(P)
pressure suppression in water cooled, description of water filled tray for, 23:43124(P)
pressure suppression in, analysis of steam jet size and configuration in water for, (E/T), 24:4074(R) (ORNL-TM-2283)
pressure suppression in, description of melting-ice, 23:19596(P)
pressure suppression in, use of steam condensation at surface of liquid reservoir for, 23:9174(P)
pressure suppression system for, fission product removal by pool, (E/T), 24:36051(R) (ORNL-TM-2984)
pressure suppression system for, fission product removal by pool, (E/T), 24:46071(R) (ORNL-TM-3061)
pressure transients in ice condenser, effects of, 23:28396
pressure-suppression pools for, analysis of steam condensation and fission product entrainment in, 22:42160(R) (BMI-1844)
pressure-temperature response during coolant loss accidents, 22:39774 (IDO-17272)
pressure-temperature response of, effects of blowdown core cooling and initial heatup on, 23:11256(R) (IDO-17265)
radioactivity distribution in research reactor, during accident release, 25:28763 (RISO-205)
radioisotopes in, chemical reactivity of, 22:12148
relief valve for, design of fast-acting, 22:14661(P)
requirements for 1000 MW(e) gas cooled fast breeder, for core meltdown accidents, 25:54161 (ORNL-TM-3546)
residual heat removal systems for, design of pebble bed heat sink, 23:21517 (NYO-841-17)
response of pressurized water, parametric analysis of pressure-temperature, 23:37580
response to high energy excursion of, use of hydrodynamic equations for calculating, 24:7150
response to high energy excursions, numerical method for inelastic, (T), 24:43796
response to high energy excursions, numerical method for two-dimensional hydrodynamic, (T), 24:43795
safety analysis of fast breeder sodium cooled Karlsruhe prototype, 22:18450
safety analysis reports on, CHORD-S retrieval system for information from, 22:7816(R) (ORNL-TM-2057)
seals for, description of gas cooled reactor penetration, 23:45074(P)
separation of iodomethane from, by sorption in aqueous solutions of ammonium sulfide, 23:45394(P)
spray solutions for boiling water, post accident radiolytic gas production and concentration from, (E), 25:6035 (ORNL-TM-2412(Pt.8))
spray solutions for, corrosive effects and stability of, 25:48290(R) (ORNL-TM-2663)
spray solutions for, corrosive effects of low pH, (E), 25:23313(R) (ORNL-TM-3263)
spray solutions for, corrosive effects of, (E), 25:34393(R) (ORNL-TM-3342)
spray solutions for, effectiveness of sodium thiosulfate additive for removal of methyl iodide by, 25:34392(R) (ORNL-4647)
spray solutions for, effects of organic materials on methyl iodide production in sodium hydroxide, 25:57092(R) (ORNL-TM-3483)
spray solutions for, interactions between coatings and, 22:14132(R) (BMI-X-10213)
spray solutions for, stability during coolant loss accidents of sodium thiosulfate, (E), 25:25994
spray solutions for, stability during coolant loss accidents of sodium thiosulfate, (E), 25:25996
spray system for, fault tree analysis of reliability of N-Reactor fog, 23:45123 (DUN-5890)
spray system for, for absorption of iodomethane, efficiency of sodium thiosulfate, 24:5723
spray systems efficiency determination for, 22:32795
spray systems for, corrosion of reactor materials by solutions in, (E), 24:11212 (ORNL-TM-2412(Pt.3))
spray systems for, dose reduction factor for elemental iodine removal by, (E/T), 25:37029 (ORNL-TM-2412(Pt.12))
spray systems for, effectiveness for iodine removal of sodium thiosulfate, (E/T), 25:15374 (BAW-10024)
spray systems for, effectiveness of fission product removal by, (E), 25:10244(R) (ORNL-TM-3212)
spray systems for, effectiveness of fission product removal by, (E), 24:52951 (ORNL-TM-3122)
spray systems for, effectiveness of fission product removal by, (E), 25:23313(R) (ORNL-TM-3263)
spray systems for, efficiency of fission product removal by, (E/T), 24:46071(R) (ORNL-TM-3061)
spray systems for, efficiency of fission product removal by, (E/T), 24:36051(R) (ORNL-TM-2984)
spray systems for, efficiency of fission product removal by, 24:11214(R) (ORNL-TM-2777)
spray systems for, efficiency of sodium thiosulfate or water for iodomethane removal by, 23:9512 (ORNL-TM-2053)
spray systems for, evaluation of, 22:7816(R) (ORNL-TM-2057)
spray systems for, iodine removal by, (E), 25:31610
spray systems for, iodine-131 attenuation following coolant loss accidents using, 22:39774 (IDO-17272)
spray systems for, model for iodine washout by water, (T), 25:15372 (AE-408)
spray systems for, performance of sodium hydroxide (NaOH), sodium sulfite (Na$_2$SO$_3$), and sodium thiosulfate for iodine removal at 25 to 150°C, 24:2009(T) (ORNL-tr-2241)
spray systems for, performance of water for organic iodine compound removal at 25 to 150°C, 24:2008(T) (ORNL-tr-2240)
spray systems for, review of U. S. research on, 25:31583
spray systems for, stress corrosion cracking of Type 304 and Type 316 stainless steel by boric acid solution in, (E), 25:37028 (ORNL-TM-2412(Pt.10))
spray systems in, method for calculating iodine removal by, 24:13577 (ORNL-TM-2412(Pt.7))
spray systems in, post-accident iodine removal effectiveness of, (E), 25:25992
sprays for aerosol, description of dual-jet opposing-motion pivotal converging, 22:44949(P)
sprays for iodine removal, effectiveness of, 24:33345
sprays for pressurized water, development programs for, 24:33337
sprays for pressurized water, drop size distribution and effectiveness in, 24:33339
sprays for pressurized water, radiation and thermal stability of, 24:33341
sprays for removal of iodine from, performance of water, 24:33344
sprays for, effects on coatings of, 22:22657(R) (BMI-X-10222)
sprays for, evaluation of fission product removal efficiency of, 22:32797
sprays for, heating in air—steam atmospheres of cold water drops in, (T), 24:11213 (ORNL-TM-2412(Pt.6))
sprays for, radiation and thermal stability of, 22:32792
sprays for, radioiodine removal by sodium thiosulfate, 24:33342
sprays for, rates for methyl iodide uptake by reactive, 22:42160(R) (BMI-1844)
sprays for, stability of sodium thiosulfate, 24:33343
testing of Gundremmingen Power, results of, 23:47093 (APED-5698)
testing of heavy water pressure tube reactors, simulated design basis accident, (E), 25:25846 (IN-1403)
testing of power, description of program and facility for, 23:52392
testing of water cooled power, evaluation of, 22:46913 (ORNL-NSIC-26)
testing of, review of techniques for, 22:32869
thermal energy absorption in, ACRS report on use of ice for, 22:20862
transients in boiling water power reactor pressure suppression, analytical modeling methods for coolant loss accident induced, 25:57057 (NEDO-10320(Suppl.1))
tritium removal by isotope exchange, catalytic effects of activated carbon on, 25:18385 (CONF-700816-(Vol.1), pp 278-88)
vapor suppression in boiling water, from metal—water reactions following coolant loss accidents, 23:47220 (APED-5454)
ventilation facilities of Peach Bottom Power Reactor Unit 1, 23:43061
xenon removal from atmosphere in, using cellulose acetate membranes, 24:9434(R) (NYO-4057-1)
xenon-133 removal by isotope exchange, catalytic effects of activated carbon on, 25:18385 (CONF-700816-(Vol.1), pp 278-88)

REACTOR CONTROL ELEMENTS
accelerator springs for, evaluation of Inconel 718, 23:33948 (BNWL-930)
actuation and movement of, hydraulic system design for, 21:31988(P)
actuator for, design of axially driven, 24:39123(P)
albedo calculations for, boundary conditions at nondiffusion surfaces for, 22:33137
analysis of optimal system of, for power reactors, 21:5640
arrangement in power reactors, effects on stability of, 24:33279
arrangement of, effects on neutron distribution in core and reflector, 21:21658
assemblies of square lattice, description of drive sequence for 4 independent groups of multiple 3 x 3, 23:24047(P)
bearings for drum, development and testing of, 24:46098 (AI-AEC-12964)
book: Control and Electronics of Nuclear Reactors, 22:30273
book: Electric Servomotors and Elements of Servodrives for Nuclear Reactors, in Russian, 25:46343
book: Elementary Reactor Physics, 21:40646
book: Testing the Control Rod Drives of Marine Nuclear Reactors, 22:14233(T) (JPRS-43834)
boron transport from boronated graphite, compressive load and high temperature effects on, 24:24782(R) (GA-9875)
brakes for, description of dual-section multiple expanding annular disc-type rubbing, 23:11367(P)
brakes for, design of hydraulically-damped saddle-shaped high-efficiency warped disk springs for, 23:9240(T) (EURFNR-530)
braking device for control rods, design of friction-type, 21:7992(P)
braking mechanism for scram rods, design of rotation-producing, 22:10096(P)
braking of falling rod, pneumatic device for, 21:4424(P)
burnup of absorber material in slab geometry, space and time dependent, (T), 25:51051 (JAERI-13501)
bushings for, design and specifications for fabrication of gadolinium oxide—aluminum oxide for, 21:32014 (ORNL-4123)
calibration and drop testing of JEN-2, 23:4387
calibration calculations for fast, multigroup diffusion theory method for, 22:35469 (PNR/SETR-R.-022)
calibration of AGR, use of xenon transients following shutdown for, 21:27763
calibration of ALRR, 23:2066 (IS-1900, Paper 7)
calibration of Annular Core Reactor Experiment, 21:38721
calibration of BSR, 23:31200(R) (ORNL-TM-2600)
calibration of BSR, 23:21518(R) (ORNL-TM-2504)
calibration of Dodewaard Power Reactor, use of KRITO for, 23:19444 (RCN-102)
calibration of EBWR, effects of boric acid concentration on, 21:7856(R) (ANL-7255)
calibration of EDF-3, use of pulsed neutron technique for, 21:30109 (CEA-R-3162)
calibration of ESSOR reactor rod-type, use of analog and digital computers for, 23:9135
calibration of fast ZPR-6 fine, use of computerized inverse kinetics techniques for, 23:4329
calibration of fine autorod, computer method for accurate, 23:52497
calibration of heavy water-moderated, direct reactivity meter for, 21:40588

calibration of Latina Power, use of xenon compensation for, 23:26005
calibration of Peach Bottom, 21:23600(R) (GA-7830)
calibration of Peach Bottom Power Reactor Unit 1, description of, 23:4264(R) (GA-8816)
calibration of Peach Bottom Power Reactor, at startup, 21:38452 (GA-8025)
calibration of Peach Bottom Power Reactor, by on-line reactivity computer, 21:35624
calibration of Texas A and M TRIGA, results of, 23:52426
calibration of uranium-233 fueled Molten Salt Reactor Experiment, 23:47212 (ORNL-4396, pp 1-47)
calibration of VVR-K, 23:19533
calibration of, using rod-drop measurements, (E/T), 21:8136
characteristics of boron carbide (B_4C), 24:33280
cladding for, determination of mechanical properties in dynamic sodium atmosphere of, 22:27396(R) (AI-AEC-12638)
configuration for optimum location and management of 1000 MW(e) fast breeder superheating D-1 reactor, calculation of, (T), 22:53274 (EURFNR-544)
configuration of AARR triple-section variable-absorber vertical multiple, description of, 23:2081(P)
configuration of core-enclosing multiple cobalt plate-containing square cross-sectioned tubular dual-wall vented, 22:48793(P)
configuration of dual-zone movable black absorber with telescoping inner grey absorber, description of, 23:4467(P)
configuration of gas-cooled reactor electromagnet-retained multiple spherical boron steel shutdown, description of, 22:53329(P)
configuration of hermetically sealed boron steel multiple spring-braced plate-type cross-shaped cross-section, description of, 22:48772(P)
configuration of interconnected multi-section combination fuel element and, description of, 22:44931(P)
configuration of liquid moderated reactor vertical-motion horizontal-grid, description of, 22:48795(P)
configuration of multi-zone cylindrical fast rocket reactors self-regulating yttrium hydride, description of, 22:46999 (N-68-24559)
configuration of multiple suspended rectangular plates in cross-shaped cross-section, for heterogeneous reactors of, 22:48672(P)
configuration of water-cooled reactor shutdown, description of water pressure-supported gravity-driven cylindrical rod, 22:39840(P)
configuration of water-cooled spring-separated roller-supported plate-type fuel-and-control, 22:50857(P)
configurations of poison-pin-type, for physics measurements in water-moderated urania cores, 21:25712(R) (BAW-3647-3)
control elements for, 22:1871
cooling of hollow cylindrical, optimum geometry for efficient external and internal, 24:50514
cooling system for pressurized-water reactor three-coil positioned, performance of forced air, 22:30166(R) (WCAP-3707)
core configuration of independent spaced, description of activation sequence and combinations for, 23:45146(P)
couplings for, description of transverse expanding split sleeve plug-and-socket, 23:9261(P)
critical bank height of Novo Voronezh Power Reactor Unit 2, effects of coolant water temperature on, 23:31131
criticality calculations for, application of P/sub N/ approximation using integral transforms to, 21:35685 (ANL-7320, pp 448-55)
cylinder-type lower-end fuel and upper-end, description of center rod removal device for dual-purpose, 22:37583(P)
damping characteristics of shim, following Texas A and M reactor scram, (E), 24:2021 (DOCKET-50128-8)
deformation of, fast neutron radiation and thermal effects on, 24:52958 (BNWL-1430)
description of, 22:18626(P)
description of ATRC research reactor, 23:9202
description of cobalt plates in square coaxial tubing, for swimming pool reactors, 23:43157(P)
description of combination fuel element-control rod assembly with T-shaped control rods extending through channels in fuel rod bundle, 23:9245(P)
description of concentric, with inner rod for controlling built-in excess reactivity, 22:6185(P)
description of double-plate vertical-motion fuel assembly containing, for swimming-pool reactors, 22:12137(P)
description of electromagnetic driven boron steel chain, for gas cooled reactors, 22:20868(P)
description of fast liquid metal-cooled reactor multiple vertical core surrounding shutter-actuated graphite bars, 23:23884(P)
description of flat blade, with members formed by bonded longitudinal tubes and with a guide member, 23:9243(P)
description of hollow concentric cylinder support for multi-rod, 22:14335(P)
description of hydraulically operated, in two-region heat exchanger liquid-cooled reactor, 22:16245(P)
description of improved fast reactor neutron absorber- and moderator-type, 22:14224(P)
description of interconnected intermediate, for power output regulation, 22:42268(P)
description of lower, on upper driven chain, 22:22885(P)
description of moderator tube enclosed by absorber plates, 22:7866(P)
description of multi-layer concentric cylinder, for fast, thermal, and epithermal neutrons, 22:14283(P)
description of multi-medium concentric square tube, 22:7869(P)
description of multi-region chain-type, 22:25164(P)
description of multiple vertical coolant flow-regulated multiple-ball column-type, 23:9249(P)
description of overhead, for liquid metal-cooled fast reactors, 22:10052(P)
description of part length, for axial power distribution and axial xenon oscillation control, 22:22867 (WCAP-7072)
description of spherical, with means for insertion in core on pressure drop in coolant flow, 22:6064(P)
description of spring-activated, for positive rod insertion, 22:6187(P)
description of symmetric multi-blade, 22:16343(P)
description of trapezoidal, multi-plate, vertical, weight-suspended, 22:10111(P)
description of two position fine flux trim, for pressurized water power reactors, 25:23267(P)
description of variable reflector area, for thermal reactors, 22:7871(P)
description of vertical axis rotating external plates for, 22:20867(P)
description of vertical overhead, with grooved sides and free-falling operation, 22:14366(P)
description of zirconium alloy clad boron-containing glass burnable poison, 23:40464(P)
design and development for fast reactors, 21:17459 (NAA-SR-11378(Vol.1))
design and development of, 21:5636
design characteristics and manufacturers for European, 23:21446
design characteristics of gas cooled thimble type, for pressurized water reactors, 25:36997(P)
design configurations of water cooled and moderated, comparison of, 24:29002
design criteria for steam cooled fast breeder, 22:53367
design for fast reactors, 21:15811(P)
design for Marviken Reactor, review of, 21:42765
design for PM-type cores, 21:17450 (HIT-3583-43(Vol.1))
design for production of radioisotopes by use of, 21:19514(P)
design modifications of HTLTR, 21:31902(R) (BNWL-367)
design of, 21:2904(P)
design of boron steel, for high temperature reactors, 21:38602
design of caterpillar-shaped vertical multiple-section varying-absorption, 23:11362(P)
design of chain-type, 21:35638(P)
design of closed tube, for variable temperature operation, 21:40649(P)
design of concentric rotating cylinder, 23:28643(P)
design of continuous motor-operated rheostat, 21:8640(R) (IDO-17211)
design of controlled pressurized helium-3 system for use as, 21:38461 (NASA-TN-D-4093)
design of coupled, 21:2853(P)
design of cruciform, for water cooled reactors, 25:36998(P)
design of flexible, with a number of independent rectangular blades, 24:7376(P)
design of helium vented rod type, for liquid sodium cooled reactors, 25:28673(P)
design of helium-3-filled tubular, (E/T), 21:8030
design of high speed, with means for production of power pulses, 23:43212(P)
design of hollow piston, operated by pressurized water, 21:5714(P)
design of hollow rod, 21:23769(P)
design of hollow rod for insertion into bed of spherical fuel elements, 24:50251(P)
design of hollow tube, with means for introduction of gaseous and liquid poisons, 25:23418(P)
design of improved, 21:35643(P)
design of LOFT, comparison of solid cruciform and open-lattice, (T), 23:52382(R) (IDO-17267)
design of low-cost shim, for Michigan Research Reactor, 21:35735
design of Model-IHE, for increased holddown during fueling, 21:30093(R) (ANL-7317)
design of moderator dump gate valve for use as, 21:21725(P)
design of movable, 21:30219(P)
design of multi-section rod with thermal expansion joint, 21:8174(P)
design of multiple pin type, for insertion in fuel pin assemblies, 25:23265(P)
design of Phoenix, 22:14289 (BNWL-635)
design of plate-type, for boiling superheat reactor, 21:7999(P)
design of power reactor, problems and requirements for standardization of, 24:18607
design of pressure equalized multiple segment plate type, 23:40473(P)
design of rare earth—graphite systems, for high temperature reactors, 21:38602
design of rod, 21:23763(P)
design of rod with rectangular cladding tube, 21:23764(P)
design of roller-containing square tube-type, mounted inside an enclosing tube, 22:10103(P)
design of silver—cadmium—indium alloy, for Obrigheim Power Reactor, 21:46889
design of spring-loaded, 21:17545(P)
design of tube network containing neutron absorbing liquid, 21:5645(P)
design of variable-volume fluid, for power reactors, 21:46925(P)
design of vertical overflow for TR—O Czechoslovakia, 21:44948 (UJV-1845)
design of vertical shutdown, for liquid cooled reactor with vertical coolant flow, 22:3954(P)
design of Y-shaped, for use with hexagonal fuel elements, 21:42786(P)
design of, for Gundremmingen Power Reactor, 21:12196
design of, for in-reactor testing of canless fuels, 21:7901(R) (WCAP-3269-17)
design parameters and development for pressurized water, 23:25982 (DOCKET-50213-2)
design parameters for closed cycle pressurized water 450 MW(e) San Onofre Power Reactor Unit 1 reference core, 23:33005 (WCAP-3269-7)
design parameters for pressurized liquid cooled and moderated gaseous boron hydride, helium-3, krypton, or xenon-135, 24:11176(P)
design parameters for upward insertion secondary, 24:47845(P)
design parameters for valve regulated liquid, 24:11337(P)
design parameters of boron carbide (B_4C) rod type, for liquid sodium cooled fast test reactor, 25:46290(R) (GEAP-10010-28)
design parameters of concentric cylinder arranged boron carbide, with gas retaining porous material central region, 24:13640(P)
design parameters of core penetrating flexible, for shutdown, 25:54298(P)
design parameters of core penetrating rod type, for pebble bed reactors, 24:47847(P)
design parameters of heated hydride dual region, 24:16176(P)
design parameters of helical grooved rod, for pebble bed reactors, 25:54067(P)
design parameters of pebble bed penetrating rod type, 24:47840(P)
design parameters of pressurized water cooled independent two position, 24:47843(P)
design parameters of pump regulated liquid filled tube type fast, 24:33278(P)
design requirements for 1000 MW(e) liquid metal cooled fast breeder reactor, 25:57069(R) (ANL-7800)
design requirements for MPRE, 23:28589 (ORNL-TM-1619)
design specifications for LMFBR, 25:1895
design without mechanical drive for natural uranium fuel, heavy water-moderated, gas-cooled reactor, 22:1826
development and fabrication for PWR, 21:21651(R) (WAPD-MRP-119)
development and testing for AARR, 21:7856(R) (ANL-7255)
development for PBF, 21:19464(R) (IDO-17207)
development of 1000 MW(e) liquid metal cooled fast breeder reactor, simulation studies for, 25:57069(R) (ANL-7800)
development of aluminum-base europia, for HFIR, 21:38727
development of blade-type, for AARR, 21:40669 (ANL-7290, pp 27-119)
development of boron-stainless steel alloy and boron carbide (B_4C), 24:28874
development of carbon dioxide cooled, 24:28873
development of ceramic and metallic, 21:30304
development of heavy water-moderated reactor, review of, 23:31159 (BNWL-1031)
development of liquid sodium cooled, 24:43689 (CONF-700307-5)
development of liquid, review of, 24:53010
development of spheroidal, composed of oxide- or carbide-coated diboride particles embedded in pyrolytic carbon or zirconium alloy, 25:52435(P)
development of stainless steel-clad boron nitride, 24:14698 (GEMP-1013, pp 379-405)
development of stainless steel-clad tantalum, 24:14698 (GEMP-1013, pp 379-405)
devices for rod type, description of claw retained hydraulic, 23:43215(P)
dispersions and nonmetallic poisons in, review on performance of, 24:2930
Doppler coefficient variations caused by fast, method for minimizing, 23:37701
drive actuator design for HWOCR, 21:23587(R) (AI-CE-31)
drive actuator of NERVA XE-1 control drum, effects of 30 to 80°K on, 23:2088 (N-68-29973)
drive actuators for, design of, 21:23670(P)
drive assembly with rapid scram operation during power failure, 25:37141(P)
drive design for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
drive device for, description of mono-directional clutch for hydraulic actuator, 22:25200(P)
drive device for, design of electromagnetic, 22:51215(P)
drive for chain-type, description of vertical, 22:25168(P)
drive for chain-type, description of vertical, 22:25167(P)
drive for, description of common external, 22:3947(P)
drive for, description of common external, 22:3949(P)
drive for, description of external synchro-oscillator signaled internal, 22:10095(P)
drive for, description of surge tank pressure valve release sequence for, 22:10071(P)
drive for, design of electromagnet fastened screw, 21:40705(P)
drive for, design of hydraulic, 21:46932(P)
drive mechanism for boiling reactors, 21:30210
drive mechanism for connecting, 21:23767(P)
drive mechanism for Fort St. Vrain, performance history of, 21:38449(R) (GA-6950)
drive mechanism for high speed, design of, 23:43212(P)
drive mechanism for large boiling water power, results of impact testing of collect assembly for, 23:47187 (APED-5555)
drive mechanism for multi-purpose shim-safety and regulating, description of, 22:18657(P)
drive mechanism for power reactors, development of magnetic, 21:23668
drive mechanism for rod-type, automatic, 21:31974
drive mechanism for rods, design of electromagnetic, 21:5715(P)
drive mechanism for rods, pressure-actuated, 21:1231(P)
drive mechanism for, description dual-purpose control and safety, 22:20959(P)
drive mechanism for, description of coolant-pressurized piston and cylinder gravity, 22:16344(P)
drive mechanism for, description of fluid-activated, 22:3951(P)

drive mechanism for, description of multi-piston control electromagnet fastened high-pressure fluid, 22:14332(P)
drive mechanism for, description of stopper device for limited withdrawal, 22:18653(P)
drive mechanism for, description two-position movement fluid-actuated piston, 22:18656(P)
drive mechanism for, design of, 21:5718(P)
drive mechanism for, design of external access for liquid metal-cooled reactor, 22:3876(P)
drive mechanism for, design of fluid-operated, 21:30221(P)
drive mechanism for, design of PM-1 and PM-3A, 21:4379 (NYO-3370-3)
drive mechanism for, design of PM-1 and PM-3A, 21:5626 (NYO-3370-2)
drive mechanism for, design of PM-1 and PM-3A, 21:5625 (NYO-3370-1)
drive mechanism for, design of pneumatic, 25:6457(P)
drive mechanism for, design of release device for, 21:8008(P)
drive mechanism for, design of rod, 21:12208(P)
drive mechanism for, design of water cooled, 23:26424(P)
drive mechanism for, electromagnetic shutdown device for, 21:7993(P)
drive mechanism for, releasable spring loaded coupling device for, 24:18798(P)
drive mechanism for, with means for remote operation of coupling gripper, 24:18793(P)
drive mechanism testing for organic-cooled, 21:5631 (RT/ING-(66)4)
drive mechanisms for EBOR, speed reducer for, 21:44831 (GA-8089)
drive mechanisms for FARET, design and operation of, 21:5680 (ANL-7158)
drive mechanisms for FARET, hold-down requirements of, (E/T), 21:7935
drive mechanisms for hermetically-sealed pressurized-water reactor, description of dual-sealed rod and coaxial tube, 22:25050(P)
drive mechanisms for maritime, performance testing of, 22:3879
drive mechanisms for PM-1 and -3A rods, deformation of collets for, 21:5669 (NYO-3370-4)
drive mechanisms for Shippingport Core 1, examination of, 21:19389 (WAPD-311)
drive mechanisms for water- or steam-cooled, development of hydraulic, 22:37444 (KFK-665)
drive mechanisms for, description of vertical electromagnetic fastened multi-cylinder compressed air, 22:14352(P)
drive mechanisms for, design of a mechanical joint for, 22:1906(P)
drive mechanisms for, design of motor-driven, 24:2346(P)
drive mechanisms for, design of shaft seal for, 21:21691(P)
drive mechanisms for, testing in sodium vapor, 24:48796(R) (LMEC-70-13)
drive motor for drum type, performance of electric stepping, (T), 25:60193 (N-71-26979)
drive penetrations through pressure vessels for, load testing of welded, 24:13541 (APED-5592(Pt.4))
drive switching system for, description of spring-retarding bottom-end electric-type, 23:13589(P)
drive system for pressurized water, design of solid-state, 25:60066
drive system for rod type, description of hydraulic, 25:28676(P)
drive system for shim, description of safety multiple delay switches for continuous push-button-activated, 22:50855(P)
drive system for, description of multi-cylinder travelling gear, 22:14324(P)
drive system for, description of vertical, weighted, 22:10093(P)
drive system for, design of electro-hydraulic, for Russian SM-2, 21:44875
drive system for, design of hydraulic, 25:8139(P)
drive system for, design of hydraulic, 25:60047
drive system for, design of in-tube pressurized, 23:21564(P)
drive system for, design of reactor coolant actuated hydraulic, 25:20839(P)
drive system for, testing in sodium under LMFBR conditions, 25:42804(R) (LMEC-71-1)
drive system for, with electromagnetic latch and hydraulic scram insertion, 24:4181(P)
drive systems for, review of, 21:17437 (BMwF-FBK-66-13)
drive tubes for Oyster Creek Power Reactor Unit 1, crack problems in, 23:49533
drive unit for, maintenance manual for ORNL Model Q-2607 servo demand, 22:4505 (ORNL-TM-1638(Pt.7))
driver for Fort St. Vrain Power Reactor Unit 1, description of design modifications for, 23:47169(R) (GA-9440)
drives coupling system for liquid metal cooled reactors, 25:28670(P)
drives for 1000 MW(e) single-fluid MSBR, 23:21452 (ORNL-4344, pp 53-108)
drives for ATR, failure analysis of rod, 23:33118 (IN-1228, pp 20-73)
drives for boiling reactor, description of concentric-cylinder hydraulic bottom-, 23:11366(P)
drives for boiling reactor, description of folded-plate drag device for accident fall of bottom-, 23:11365(P)
drives for boiling reactor, development of electro-hydraulic, 25:12712
drives for boiling water, 22:25012
drives for boiling, performance of operation and shutdown, 24:28874
drives for carbon dioxide cooled, development of, 24:28873
drives for conceptual liquid sodium cooled fast breeder power, testing of, 24:1981
drives for dual-purpose cable-suspended control and shutdown, description of disengaging lug-drive with elastic wound reel, 23:9248(P)
drives for dual-purpose, design for emergency shutdown and normal operation, 22:1897(P)
drives for emergency upward insertion of, description of gravity actuated pulley transmission, 24:38645(P)
drives for emergency, description of explosion-actuated telescopic cylindrical, 22:53476(P)
drives for emergency, description of upward vertical movement falling weight actuated, 24:11339(P)
drives for European, design characteristics and manufacturers for, 23:21446
drives for excursion-type research reactor, description of bi-directional variable-speed, 23:9213(P)
drives for fast reactor overhead, description of thermal expansion actuated, 23:28451(P)
drives for Fast Test Reactor rod type, review of candidate designs of, 23:28550 (BNWL-973)
drives for Fort St. Vrain Reactor, design of, 21:38447(R) (GA-6830)
drives for gas cooled power, reliability analysis in Europe of, 24:26745 (CONF-690951-1)
drives for gas cooled, testing of, 24:28984(R) (GA-8420)
drives for gas cooled, testing of, 24:28986(R) (GA-9130)
drives for Hanford N, requirements and description of fire resistant invert emulsion hydraulic fluid for, 23:37375 (DUN-SA-117)
drives for Hanford Production Reactors (N), testing of fire resistant fluids for hydraulic, 23:37685
drives for helical grooved rod, description of coaxial shaft threaded gear, 25:54067(P)
drives for heterogeneous reactor, description of telescoping tubular sleeves with, multiple concentric spring-type, 23:11189(P)
drives for hydraulic, for water-cooled and superheating reactors, 22:46897(T) (EURFNR-497)
drives for integrated gas cooled power reactor, design characteristics of, 23:28455
drives for JMTR, design of, 21:25726
drives for Lingen Power Reactor, performance of, 23:19453
drives for liquid metal-cooled reactor, description of U-shaped closed-end tube with pressurized liquid metal, 23:4198(P)
drives for liquid sodium cooled fast breeder, environment testing of magnetic jack, 23:37487
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37075 (TODD-N-24)
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37074 (TODD-N-23)
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37073 (TODD-N-21)
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37070 (TODD-N-16)
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37071 (TODD-N-18)
drives for liquid sodium cooled reactor, adaptability of pressurized water reactor roller nut, 25:37072 (TODD-N-20)
drives for liquid sodium cooled, description of coupling system for, 25:28671(P)
drives for liquid sodium cooled, development of, 24:43689 (CONF-700307-5)
drives for liquid-moderated, description of pneumatic, 22:37470(P)
drives for LMFBR, development program for components of, 23:2041 (WASH-1103)
drives for multi-rod, description of separate cable-connected simultaneous external, 22:14363(P)
drives for multiple suspended rod-type, description of potentiometer-monitored automatic geared induction motor with electromagnetic clutch, 22:48783(P)
drives for NERO Marine, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
drives for NERO Marine, final design drawings for, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
drives for parallel arranged rod type, description of two position, 24:36095(P)
drives for PBF transient, fault free analysis of, 23:9195 (IDO-17274)
drives for Piqua Power Reactor, safety evaluation of modified, 23:28363 (NAA-SR-12516)
drives for power, design in U.K. of, 23:34945 (CONF-680625-8)
drives for pressurized water reactor, description of rack and pinion, 25:23266(P)
drives for pressurized water, description of part length, 25:28668 (WCAP-7406)
drives for pressurized water, design parameters and performance testing for, 24:36008 (BAW-10007(Suppl.1))
drives for pressurized water, static system for activating and regulating, 24:47836
drives for pressurized water, testing of roller nut type, 24:31049 (BAW-10007)
drives for pressurized-water reactor cadmium—indium—silver, description of shock absorber and three-coil, 22:30165(R) (WCAP-3706)
drives for pressurized-water reactor, description of internal and external pressurized-water hydraulic, 22:35503(P)
drives for pressurized-water reactor, description of heat exchanger head loss actuated, 22:37475(P)
drives for pressurized-water reactors, description of, 22:30167(R) (WCAP-3708)
drives for pressurized-water reactors, development of sequencing variable speed, 22:30168(R) (WCAP-3710)
drives for reciprocating parallel rod-shaped, description of disengaging pinion, 23:2148(P)
drives for rod type, description of centrifugal governor for braking control during gravity accelerated operation of, 25:15413(P)
drives for rod type, description of chain connected pulley block, 25:15416(P)
drives for rod type, description of differential piston and constant fluid pressure, 23:40478(P)
drives for rod type, description of electromagnetic retained and coolant flow regulated gravity, 23:43223(P)
drives for rod type, description of external dual speed control and shutdown, 23:28635(P)
drives for rod type, description of fluidic actuated, 24:11326(P)
drives for rod type, description of hydraulic, 24:53007(P)
drives for rod type, description of hydraulic activated vertical overhead gravity, 23:45154(P)
drives for rod type, description of quick disconnecting rack and pinion, 24:16331(P)
drives for rod type, description of shutdown and control two mode operation, 25:54302(P)
drives for rod type, description of variable inertia free drop electromagnetic clutch, 23:37805(P)
drives for rod type, development and testing of servomechanism, 25:18251
drives for rod type, protection of inverter circuits for, 24:18795(P)
drives for rod, description of uniform motion hydraulic, 25:57200(P)
drives for rod-shaped, description of cam-actuated grab with vertical dual-rod, 23:19588(P)
drives for rod-type, description of drop-type piston-activated hydraulic damped-action coolant-flow-regulated, 23:13591(P)
drives for rod-type, description of dual-gear electric motor-transmission, 23:9250(P)
drives for rod-type, description of latch-retained spring-loaded duel-position hydraulic, 23:17287(P)
drives for scram operation of, description of pressurized-gas piston, 22:37580(P)
drives for sealed rod-type, description of concentric cylinder-enclosed permanent magnet and electromagnet, 22:44937(P)
drives for shim—scram, conceptual design parameter for screw type, 24:26801 (BNWL-970)
drives for shutdown safety, description of electromagnet-retained pipe-guided spring, 22:53484(P)
drives for shutdown, description of electromagnetic actuated, 24:9165(P)
drives for shutdown, description of excessive pressure actuated concentric tube, 24:26846(P)
drives for SNAP 8 (S8DR), safety testing of scram, 23:11310 (NAA-SR-Memo-11373(Add.1))
drives for sodium cooled, standards for collapsible-rotor roller-nut, 25:44105 (RDT-E-6-5-T)
drives for spring-loaded, description of rotating variable-pitch helical cam, 22:37599(P)
drives for Swedish Reactors (R-3), Swedish Reactors (R-4), and Oskarshamn Power Reactor, design characteristics of, 23:28408
drives for upward-flow pressurized-water reactor, description of valve-regulated hydraulic, 23:9134(P)
drives for vertical gravity-restrained, description of upward nozzle-controlled fluid, 22:39921(P)
drives for vertical rod type, description of pulley winding roller chain, 24:9167(P)
drives for vertical tube-supported multiple chain-type, description of piston-actuated hydraulic, 23:21579(P)
drives for vertical, description of plug-penetrating tube-enclosed rotating coaxial grappler rod, 23:4466(P)
drives for water cooled reactor rod type, description of ring seals for piston, 23:43102(P)
drives for water cooled, description of dual interconnected hydraulic pistons, 25:10188(P)
drives for water cooled, description of hydraulic actuated shutdown, 24:26748(P)
drives for, braking device for winch cables in, 24:47980(P)
drives for, description and use of reluctance motors for, 25:54848
drives for, description of double-sealed pressure equalizing cylinder for, 22:20871(P)
drives for, description of dual phase operating and scram, 24:11330(P)
drives for, description of electric motor actuated concentric lead screw, 24:24924(P)
drives for, description of fixed and movable racks with floating pinion system, 22:50875(P)
drives for, description of flueric amplifier regulated hydraulic, 24:4173(P)
drives for, description of fluid-bleed piston in spring-loaded electromagnetic-activated hydraulic, 22:50858(P)
drives for, description of lift-lower mechanism with electromagnet and mechanical couplings for, 22:25182(P)
drives for, description of Lingen Power Reactor continuously adjustable, 23:9112
drives for, description of parallel overhead vertical gear regulated offset, 24:4172(P)
drives for, description of pressurized fluid supported with gravity release, 22:20969(P)
drives for, description of pulse type hydraulic, 23:52495(P)
drives for, description of spring-supported magnetic jack, 22:18644(P)
drives for, description of wire-and-drum system with gear release free-falling scram, 22:35694(P)
drives for, design and testing one and three coil coincidence electromagnets for, 23:33121 (ORNL-TM-2572)
drives for, design of, 22:1894(P)
drives for, design of operation and emergency shutdown, 21:46911(P)
drives for, design parameters for marine reactors, 24:24900

drives for, development and testing of electromagnetic variable reluctance rotary type, 24:24890 (AI-AEC-12925)
drives for, drag effects on scram travel and time of flight, 22:47017(R) (ORNL-TM-2243)
drives for, electric motors and automatic servomechanisms for, 25:46343
drives for, hydraulic potentiometer, 23:16176(T) (EURFNR-543)
drives for, reliability of hydraulic and electro-mechanical, 24:26744 (CONF-680666-1)
drives of FTR, bibliography on bellows seals for, 23:11276 (BNWL-905)
drives of liquid sodium cooled, development and testing of electromagnet and latch for, 24:26805 (BNWL-1335)
drop-time measurements for ESSOR safety, use of γ shielding by drive pistons for, 23:15687
economics and efficiency of water-cooled power reactor, analysis of, 22:30190
effect on neutron density distribution in a heterogeneous lattice, (T), 21:35582 (NP-16822)
effectiveness measurements on, 21:44944 (NP-16953)
effectiveness of gray, comparison of measured and calculated, (T), 21:23737
effectiveness of uranium-233 or uranium-235 fueled high temperature fast reactor reflector based drum type, 24:5556 (N-69-36756)
effectiveness of water moderated thermal reactor reflector enclosed rotating cylinder shaped, (E/T), 24:5520
effects of Bohunice Power Reactor, on temperature distribution in fuel elements, 23:43052 (UJV-2166-R)
effects of boron, on heat fluctuations in fast reactors, (E), 22:10014(T) (ANL-Trans-542)
effects of boron—steel, on thermal neutron spectra in NORA, (E/T), 23:47269 (KR-136)
effects of cadmium—indium—silver, on water-moderated lattices of enriched uranium dioxide, 21:5681(R) (BAW-3647-1)
effects of cobalt, on xenon stability of RAPP Power Reactor, 23:25981 (BARC-354)
effects of liquid sodium environment on fast reactor, 22:18503
effects on HIFAR power transients of loss of single coarse control arm blade, analog computer simulation of, 23:19520 (AAEC/TM-479)
effects on neutron flux cycling variations in ETR, 21:46943(R) (IN-1117)
effects on neutron flux, comparison of methods for calculating, 22:50866
effects on reactor breeding rate of, determination of eigenvalues for calculating, 22:39903 (KFK-741)
efficiencies of, comparison of calculated and measured, 21:30274
efficiency of concentric cylinders in reflector, method for calculating, 23:7417
efficiency of partially submerged, for reactor with reflector, 21:17471 (UJV-1616)
efficiency of rotating disc-type, statistical tests for calculating, 22:12041
electromagnets for lifting, design and testing of one and three coil coincidence, (E/T), 23:33121 (ORNL-TM-2572)
fabrication of, 22:6954
fabrication of boron carbide, by vibratory compaction, 21:16633 (INR-701/XIV/PS)
fabrication of boron carbide—copper for Kiwi, 21:4989 (LA-3570)
fabrication of corrosion-resisting high neutron-absorption steel, 22:642(P)
fabrication of hafnium replacement, for Puerto Rico Power Reactor, 23:37430
fabrication of instrumented subassemblies for EBR-2, 21:42725(R) (ANL-7357)
fabrication of Japanese power reactor, description of domestic, 22:35486
fabrication of metal-matrix, incorporating coated particles of boron carbide, 22:28910(P)
fabrication of Phoenix, 22:14289 (BNWL-635)
fabrication of plate-type clad, by compaction of metallic powders, 24:19404
fabrication of pressurized-water reactor cadmium—indium—silver, description of, 22:30164(R) (WCAP-3703)
fabrication of pyrolytic carbon coated mixed boride sphere shaped particle, 23:52494(P)
fabrication of Saxton Power Reactor 9 x 9 assembly, 21:46867 (WCAP-3269-59)
fabrication of silver-base alloy rods, method for, 21:4423(P)
fabrication of, Argentina industrial capacity for, 22:3837 (NP-16984)
fabrication of, electric welder for, 22:19010
fabrication of, methods for, 25:42822
fabrication of, problems with, 24:38640
fabrication of, summary of problems with materials for, 23:9217
fabrication procedures for HFIR, 23:8339 (ORNL-4370, pp 179-92)
fission gas venting capillary valve for liquid metal cooled rod type, 25:10189
fluid levels in liquid metal-reflector juxtaposed segment, description of pressure controlled, 22:37594(P)
fluid system for double-wall square-lattice water-cooled reactor, description of variable neutron absorber, 22:39802(P)
gamma radiation heating in fast reactor spectra, (E), 24:46011(R) (AI-AEC-12969)
gas flow regulating system for gas filled, 25:39353(P)
gas transport in vented, 24:13802 (ORNL-4400, pp 93-102)
gas-system for, design of, 21:2906(P)
guide for pressure tube reactor, design of roller, 22:3958(P)
guide plates for, description of bottom-supported fuel element assembly with, 22:37570(P)
guide tubes for boiling water cooled, description of removable, 25:10218(P)
guide tubes for cruciform, description of vertical, 25:26081(P)
guide tubes for HWCTR, failure analyses of, 21:32011 (DP-1077)
guide tubes for, description of radially extending horizontal support rods for, 22:37586(P)
guide tubes for, device for gaging straightness of elongated, 23:19885(P)
guide tubes for, in-vessel inspection methods for, 24:35955(R) (GA-10099)
guide tubes in fuel element clusters for, description of, 22:30398(P)
handling of irradiated, servicing installation for, 24:47978(P)
handling of liquid metal cooled fast, gripping device for, 25:60259(P)
handling of, development of equipment for remote, 22:7788(R) (ANL-7382)
handling system for La Crosse, operating manual for, 23:1967 (ACNP-68505-F)
handling system for, remote-control, 21:15663 (RT/ING-(66)5)
heat pipe type, description of two region reactor heat activated cadmium—potassium vapor mixture in, 23:45144(P)
heat transfer in rocket reactors vane-type, analysis of, 22:32941
heat transfer to cylindrical and screw-shaped, for 300 MW(e) THTR prototype, measurement of convective, 24:16768 (JUL-585-RB)
heating rates in LOFT cruciform, calculation and measurement of, 21:44843(R) (IDO-17239)
heating rates in mockup tantalum, in fast cores, (E/T), 25:54060(R) (AI-AEC-13005)
heterogeneous constants for cylindrical and slab shaped, HECS computer program for calculation of, 23:28621 (RISO-M-850)
insertion of scram rods, travel velocity and oscillation during initial, (E), 21:17540
inspection of Elk River, post-operational, 21:31947 (SwRI-1228-9-9)
inspection of Inconel 600 boron carbide, in Elk River Power Reactor, 21:44858 (SwRI-1228-P-9-14)
inspection of Peach Bottom Power Reactor Unit 1, analysis of 150 full-power day γ scan and visual, 23:15554 (GAMD-8703)
inspection of SM-1A irradiated Type 304L stainless steel-clad europium oxide (EuO_3)—stainless steel plate-type, description of dimensional and visual, 23:13567 (ORNL-TM-2349)
installation in fuel element channels of fast reactor, description of, 22:10028(P)
instrumentation for LITR, modifications of, 21:24274
insulation jackets for ATR, calculation of thermal bowing in, 23:33084 (IN-1228, pp 74-110)
interaction of, measurement in swimming-pool reactors of effects of, 21:38708
liquid in tube type, description of gas pressure actuated, 23:45151(P)
liquid, description of gas-pressure-regulated overhead-reservoir U-tube, 23:19595(P)
loading machine for, description of three member pivotally coupled, 22:25166(P)
location in fast reactor cores, effects on breeding ratio and fuel temperature of, (T), 25:60045
lock for steam cooled fast breeder reactor rod, description of ejection preventing safety, 25:54068(P)
locking device for reactor, description of core transfer, 22:39926(P)
locking mechanism for rods, design of automatic, 21:5709(P)
locking system for pressurized-water reactor movable pin type, 23:31160(P)
magnet control amplifier for, manual for ORNL Model Q-2613, 22:6676 (ORNL-TM-1638(Pt.13))
magnetic scattering effects in iron slab, for neutron reactivity control, 25:48346 (RT/FI-(71)14)
maintenance manual for Relay Safety Element ORNL-2623, 22:16936 (ORNL-TM-1638(Pt.23))
maintenance of reactor boric acid solutions for pressurized water, performance of Duolite ARA-366 ion exchange resin for, 24:24815
malfunctions in power and research reactors during Aug. to Sept. 1969, 24:13613
materials development for, 24:36970 (ORNL-4520, pp 187-91)
materials development for, review on, 23:41734
materials for development of, 23:20531
materials for fast breeder reactor, development of, 24:949 (GEMP-1012(Pt.2), pp 311-64)
materials for fast, evaluation of various absorber, 23:52330(T) (JPRS-48331, pp 301-42)
materials for fast, properties requirements for, 25:37140 (SRARI-P-96)
materials for fast, reactivity worths of, (E/T), 25:44094(R) (AI-AEC-12991)
materials for use in fast breeder, development and testing of, 24:29938 (GEMP-723)
materials for water-cooled reactors, summary of properties and performance of, 23:11174
materials for, calculation and measurement of efficiency of, 21:44931 (ANL-7303)
materials for, development, 23:24854 (GEMP-1008, pp 275-85)
materials for, development and testing of boron-containing, 24:44818 (ORNL-4560, pp 143-62)
materials for, development of, 24:17344 (ORNL-4480, pp 129-46)
materials for, development of, 22:21749
materials for, development status of, 25:8828 (BNWL-SA-3426)
materials for, efficiency of, 21:38761
materials for, handbook on, 21:23699
materials for, preparation of improved, 25:19264(P)
materials for, preparation of rare earth-base, 21:9218(P)
materials for, radiation effects on boron carbide, 24:12484 (BNWL-1223, pp 6.1-3)
materials for, use of magnetic, 21:15717(P)
mechanical properties of, testing methods for, 22:30385
moderator flow, description of rotating offset longitudinal axis-mounted fuel elements for liquid, 22:30393(P)
modification of BSR, description of 2 MW operation, 23:6023 (ORNL-TM-2231)
modification of PNPF, 21:23607(R) (NAA-SR-12148)
modification of PNPF, summary of program for, 23:9070 (AI-AEC-Memo-12648)
monitoring and regulation of, digital computer for, 23:45576 (CEA-R-3407)
monitoring of pressurized water reactor fluid shim, radiation detector system for, 25:54069(P)
monitoring of, use of digital computers for, 22:16947
motion of AFFRI-TRIGA pulsed, design of electronics system for measuring transient, 23:19537
motion of AFRRI-TRIGA, effects on pulsed operation of transient, 23:26066 (AD-678725)
motion of AFRRI-TRIGA, instrumentation for measurement of transient, 23:26066 (AD-678725)
movement by sequence of controlled fluid pulses, method for, 23:37486(P)
movement of interior, effect on power shape of, 23:43189 (BNL-50149, pp 1-14)
movement of ship, three-dimensional multichannel synthesis model for, 25:48324 (EUR-4557)
movement of, apparatus for detection of, 21:3362(P)
movement of, dynamic programming technique for optimization of, 22:32913
movement of, effects on thermal flux in Pluto-type reactors, 21:14065 (AERE-M-1819)
movement programming of boiling water, effects of refueling schemes on optimum, (T), 25:60101
neutron absorbers for, review of ceramic, 21:21665
neutron absorption by cadmium, effects of rod interactions on, (E), 25:57205
neutron absorption by, effects of configuration on, (E), 25:57206
neutron absorption effects due to adjacent, 21:40542 (BNWL-CC-1099)
neutron capture in hafnium, effects of new cross section data on calculated, 22:33147
neutron diffusion in movable, improved spatial differencing for, (T), 25:6177
neutron fission density distributions near grey absorber rod, comparison of measured and calculated intracell, 23:34927
neutron flux depression in parallel array of cylindrical, effects of configuration on, (T), 23:2105 (KAPL-P-3460)
neutron flux distribution calculations using multiple, analysis of epithermal and thermal, (E/T), 23:40456
neutron flux extrapolation distance in cylindrical grey and black material, use of Kofink's formulation of P/sub N/ method for, 22:39932
neutron flux self shielding factors in Fort St. Vrain Power Reactor Unit 1 burnable poison, 2 DF computer program for calculation of, 23:21417 (GAMD-9187)
neutron flux variations effects on Avogadro RS1, 21:46953
neutron monitoring system for large boiling water, design of, 23:13444 (APED-5706)
neutron transmission characteristics of uniform type, (E/T), 24:52865
operation configuration sequence for thermal power reactor, xenon-power spatial transients control by optimum, (E/T), 22:39931
operation of 300 MW(e) THTR open penetration, effects on pebble bed core pressure distribution during, 23:37482 (EUR-4190, pp 491-504)
operation of concentric multi-region reactor T-shaped cross section, description of vertical axial, 22:37582(P)
operation of control rods, device for regulating, 21:5642(P)
operation of Piqua, analysis of binding in, 21:1169(R) (NAA-SR-Memo-12071)
operation of superheat reactor external-core gas pressure regulated fluid, description of core enclosing, 22:37487(P)
operation requirements for, analysis of safe, 23:52493
oscillation tests of, in Big Rock Point Power Reactor, 21:12138 (GEAP-4448)
performance of 1000 MW(e) heavy water-moderated organic-cooled power, analysis of optimum, 22:50741 (WASH-1083)
performance of boiling reactor rod type, calculation of optimum, (E/T), 24:11322
performance of boron carbide, in sodium-cooled reactors, 21:17476(T) (NP-tr-1491)
performance of boron steel, in high temperature reactors, 21:38602
performance of boron-containing rods in water-cooled power reactors, 22:30199
performance of Garigliano, (E/T), 21:17470 (RT/FI-(66)16)
performance of graphite moderated carbon dioxide cooled power, 24:28929
performance of helium cooled, effects of operating conditions on movement, (E), 25:3858 (DP-Report-486)
performance of Kyoto University reactor, 21:14092
performance of pressurized water reactor rod type, dynamic programming for optimum, (E/T), 24:11320
performance of pressurized-water reactor, computer analysis of optimum, 22:30168(R) (WCAP-3710)
performance of pyrolytic carbon coated boron barbide (B_4C) granule type, 24:28986(R) (GA-9130)
performance of Rapsodie, analysis of, 23:9201 (TID-24857)
performance of rare earth system, in high temperature reactors, 21:38602
performance of silver—indium—cadmium, in pressurized water reactors, 22:30198

performance of tube shaped borosilicate glass, for plutonium nitrate ($Pu(NO_3)_4$) solution assemblies, (E/T), 24:16238 (CEA-R-3931)
performance of, effects of interactions between rods on, 21:5677 (AE-250)
poison materials for, of fast reactors, properties of, 21:8107
poison materials for, review of, 22:12958
poisons for use in, review on development of, 24:44719
position in sealed vessels, method for determining, 23:7918(P)
position indication for rod type, design parameters for coolant actuated hydraulic—pneumatic, 24:18789(T) (EURFNR-683)
position indicator design for, 21:10183(P)
position indicator for rod, description of, 25:57204(P)
position indicator for, description of rod-actuated magnet with multiple vertically-spaced magnetically-operated reed switches in, 23:11370(P)
position indicator for, design of synchronized, 21:2888(P)
position indicator for, hydraulic potentiometer, 23:16176(T) (EURFNR-543)
position indicators for rod type, development and testing of, 25:18251
position monitoring of pressurized water, analog system for, 25:28669 (WCAP-7571)
position of rods, hydraulic or pneumatic device for indicating, 24:9710 (KFK-951)
position of, design of indicator for, 23:13921(P)
position of, design of indicator for, 22:12512(P)
positioning of, using internal feedbacks for time-optimum, 21:10160
positioning of, using power demand feedback, 21:10175
preparation and testing europium ceramic—metal dispersion type, 23:16514 (ORNL-4368)
preparation of boron carbide, by vibrational compacting, 22:13050
preparation of chromium—nickel steel, incorporating boron—10, 24:39124(P)
pressure drop in SILOE fork type, calculation of, 21:23723 (NP-16621)
pressure vessel openings for, design of closure for, 23:24362(P)
principles of, calculation techniques for, (T), 23:15723
production of boron-containing stainless steel, method for, 24:14681(P)
production of carbide, methods for, 22:43639(P)
radiation effects on aluminum-base europium oxide dispersion-type, neutron, 22:11091 (ORNL-4199)
radiation effects on deformation and mechanical properties of Haynes 25 alloy, graphite, and stainless steel components of, fast neutron, 25:23104 (GA-10196)
radiation effects on density of thimble for, in-pile, 24:4735 (ORNL-4440, pp 117-42)
radiation effects on SM-1, in-pile, 23:34027 (ORNL-TM-2506)
radiation effects on, summary of, 25:54286 (A/CONF.49/P-704)
radioinduced dimensional change in boron—graphite, fast neutron, 23:51144 (GAMD-9276)
radioisotope production in center of, use of epithermal and fast neutrons for, 22:25176(P)
reactivity calibration of, by digital analysis of neutron flux transients, (E/T), 22:35681
reactivity effects of, comparison of methods for calculating, 22:50866
reactivity measurements on ROSPO, by rod-drop technique, 23:2074 (RT/FI-(68)24)
reactivity of hollow and hydrogen filled tantalum carbide and hafnium oxide tube, 25:41587
reactivity rod worth calculations, diffusion codes method for, 21:27699
reactivity temperature coefficients of gas-cooled power, at 15 to 210°C, 21:21681
reactivity worth calculation in cylindrical reactor, two-group method for interrupted, 22:35685
reactivity worth calculations for gas-cooled heavy water-moderated power reactor vertical movement of horizontal grid, (T), 23:26032 (ZJE-42)
reactivity worth calculations for water-moderated power reactor boron carbide (B_4C) cluster arranged cylindrical, use of effective boundary conditions for, (E/T), 23:23879
reactivity worth calculations for, comparison of P_1 blackness theory and Rossi-α, 24:47958 (RT/FI-(70)5)
reactivity worth changes of Peach Bottom Unit 1, during Core 1 operation, 23:21416(R) (GA-9237)
reactivity worth for, boundary surface perturbation method for calculation of, 21:42751
reactivity worth in beryllia-moderated pebble-bed reactors, 21:35537 (AAEC/TM-375)
reactivity worth measurement in rod-type, in subcritical assemblies, 22:27471
reactivity worth measurement of boron, in MOATA, 21:35664 (AAEC/E-181)
reactivity worth measurement using rod drop, 21:12236(R) (IDO-17202)
reactivity worth measurements for BN-350 type, 22:18570
reactivity worth measurements for tantalum, in fast reactor spectra, (E/T), 25:23250(R) (AI-AEC-12985)
reactivity worth measurements for water-moderated, 22:1758 (EUR-3615(Vol. 2))
reactivity worth measurements for water-moderated, in PR-10 and ALIZE, 22:1757 (EUR-3615(Vol. 1))
reactivity worth measurements for ZPR-3, 21:38689
reactivity worth measurements in Agesta reactor, 21:1154 (AE-244)
reactivity worth measurements in ALRR, 23:2066 (IS-1900, Paper 7)
reactivity worth measurements in heavy water moderated lattices, 21:38666 (NP-16873)
reactivity worth measurements in SPERT III E-core, 21:1206(R) (IDO-17206)
reactivity worth measurements in ZPR-3, 21:13947(R) (ANL-7286)
reactivity worth measurements of boron carbide (B_4C), calculational method for, (E/T), 22:27468 (RCN-90)
reactivity worth measurements of hollow cadmium, effects of Lucite on, 22:16269 (BNWL-618)
reactivity worth measurements of UHTREX, 21:40563(R) (LA-3760)
reactivity worth measurements on absorber samples, 25:8134(R) (BAW-3647-18)
reactivity worth measurements on boron carbide rods, 21:1153(R) (ACNP-66557)
reactivity worth measurements on Peach Bottom, 21:35626
reactivity worth measurements on tantalum, in fast reactor spectra, 25:8053(R) (AI-AEC-12978)
reactivity worth measurements on, endogenous pulsed source technique for, 22:53454 (BNWL-828)
reactivity worth minimization analysis of, 21:25684
reactivity worth of 1000 MW(e) HTGR-type reactor, analysis of, (E/T), 23:4165(R) (GA-7553)
reactivity worth of 1000 MW(e) HTGR-type reactor, analysis of, (E/T), 23:4168(R) (GA-7981)
reactivity worth of 1000 MW(e) HTGR-type reactor, analysis of, (E/T), 23:4166(R) (GA-7801)
reactivity worth of 1000 MW(e) reference design high temperature gas cooled, 24:38491 (DP-Report-135(Pt.3))
reactivity worth of 300 MW(e) oxide fueled fast, calculation of antishadowing and shadowing effects on, 23:37471
reactivity worth of 40-MW(e) HTGR prototype, 21:7867(R) (GA-7232)
reactivity worth of aluminum—cadmium—indium, measurement of, 22:32740(R) (BAW-3647-7)
reactivity worth of ATR, 23:33085 (IN-1228, pp 114-48)
reactivity worth of ATR, effects of low-power operation on calibrated, 23:19527 (IN-1260)
reactivity worth of borated stainless steel absorber, in fast-spectrum refractory-metal critical experiment, (E/T), 21:8102
reactivity worth of boron carbide rod, 25:28752 (ANL-7759)
reactivity worth of cadmium—indium—silver, measurement of, 22:30164(R) (WCAP-3703)
reactivity worth of central and eccentric cylinder shaped, pulsed neutron method for measurement of, (E/T), 23:47337
reactivity worth of cluster arranged rod type tantalum, measurement of, 24:20544(R) (AI-AEC-12911)
reactivity worth of cluster arranged rod type tantalum, measurement of, 24:33240(R) (AI-AEC-12946)
reactivity worth of clustered boron carbide, model for calculation of, (E/T), 25:34438
reactivity worth of conceptual 1000 MW(e) HTGR, 23:45053(R) (GA-9372)
reactivity worth of conceptual vertical FTR, 23:34919 (BNWL-1067)
reactivity worth of Connecticut Yankee Power Reactor first core, calculation of, 23:11123 (NYO-3250-27)
reactivity worth of cruciform rods in D-lattices, calculation by combination of collision probability and diffusion approximation methods, 23:2122
reactivity worth of cruciform, calculation of, 25:50884 (JAERI-13534)
reactivity worth of cruciform, computer code CROWN for calculation of, 21:30150 (JAERI-1128)
reactivity worth of cylinder shaped boron carbide (B_4C), (E/T), 25:28820 (EUR-4556)
reactivity worth of cylinder shaped, Nordheim—Scalettar method for calculation of, (T), 25:51246 (JAERI-Memo-4351)
reactivity worth of cylindrical, perturbation theory calculations of, (E/T), 25:37136 (UARAEE-66)
reactivity worth of DR-3 Reactor, KINIKOO computer program for calculation of, 24:13603 (RISO-M-984)
reactivity worth of fast plutonium fueled critical assembly, 24:47818 (ANL-7610, pp 61-258)
reactivity worth of Fort St. Vrain Power Reactor Unit 1, analysis of, 23:4170(R) (GA-8270)
reactivity worth of Fort St. Vrain Power Reactor Unit 1, analysis of, 23:4169(R) (GA-8038)
reactivity worth of Fort St. Vrain Power Reactor Unit 1 burnable poison, calculation of, 23:21417 (GAMD-9187)
reactivity worth of Fort St. Vrain Power Reactor Unit 1, effects of configuration on, 23:9118(R) (GA-7634)
reactivity worth of FRO, measurement of, 24:22456
reactivity worth of FTR Split Core Concept, calculation of, 23:15673(R) (BNWL-541)
reactivity worth of FTR, comparison of measured and calculated differential, 23:31193(R) (BNWL-567)
reactivity worth of graphite-moderated reactor rod type, data compilation of, 23:26031 (JAERI-1173)
reactivity worth of hafnium oxide rods in plutonia—urania—water lattices, 21:8103
reactivity worth of horizontal, in vertical fuel element configurations, (T), 22:1827
reactivity worth of HTGR-type reactor, measurement of, 23:15600(R) (GA-8860)
reactivity worth of Latina Power Reactor, on-load calibration of, 23:4195 (EUR-4058)
reactivity worth of linear array of stainless steel clad boron carbide (B_4C) rod type, diffusion theory and collision probability method for, 23:31241
reactivity worth of mockup tantalum, in fast cores, (E), 25:54060(R) (AI-AEC-13005)
reactivity worth of Modified Critical Facility, calculation of, 22:32969 (GA-8468)
reactivity worth of nonsymmetrically arranged, 21:44871
reactivity worth of NORA, 22:16356 (KR-116)
reactivity worth of NORA, measurement methods for, 21:8042(R) (IAEA-3498-12)
reactivity worth of Peach Bottom Power Reactor Unit 1, calibration of, 23:33057(R) (GA-9360)
reactivity worth of PM-4 Core 2, 24:13623 (BAW-4099-1)
reactivity worth of poison-pin-type, in water-moderated urania cores, 21:25712(R) (BAW-3647-3)
reactivity worth of power, errors in rod drop evaluation of, (T), 23:49658(T) (ORNL-tr-2221)
reactivity worth of power, spatial neutron flux distribution effects on measured, 22:18475
reactivity worth of PRCF, 23:31236(R) (BNWL-1039)
reactivity worth of pressurized-water reactor, analysis of, (T), 22:30166(R) (WCAP-3707)
reactivity worth of pressurized-water reactor, measurement of, 22:30168(R) (WCAP-3710)
reactivity worth of PRTR Batch Core, measurement of, 23:9237(R) (BNWL-907)
reactivity worth of PRTR, radiation effects of 7300 MWd on, 23:6020(R) (BNWL-887)
reactivity worth of Rheinsberg Power Reactor, dynamic reactivity measurements for, 23:34895
reactivity worth of rocket fast reactor drum-type, calculation of, 23:2090 (N-68-30750)
reactivity worth of rod type, in gas cooled reactors, 25:18063(R) (GA-10400)
reactivity worth of San Onofre Power Reactor Cycle 1, physics test comparison with calculated, (E/T), 23:15559 (WCAP-3269-66)
reactivity worth of Shippingport Pressurized-Water Reactor Core 2 Seed 1, 23:11125 (WAPD-PWR-TE-205)
reactivity worth of SORA reactor mockup, measurement of, 23:11303
reactivity worth of Swedish Reactors (R-3), pulsed neutron method for measurement of, 23:40339 (AE-364)
reactivity worth of tantalum, in fast neutron spectra, (E/T), 25:5964
reactivity worth of tantalum, in fast spectra, (E), 24:46011(R) (AI-AEC-12969)
reactivity worth of Texas A and M, (E), 24:2014 (DOCKET-50128-1)
reactivity worth of transverse rods, method for analysis of, 21:15645 (CONF-660221-, pp 303-6)
reactivity worth of uranium oxide (UO_2) fueled thermionic converter drum type, 24:7257
reactivity worth of ZPR 3 Assembly 48 and Assembly 48A, 23:31195 (BNWL-967)
reactivity worth of, analysis of few-plate, 21:46877
reactivity worth of, comparison of methods for, (E/T), 23:43217
reactivity worth of, computer program for rod drop analysis of, 25:26061 (LFEN-NL-49-a)
reactivity worth of, evaluation techniques for, 25:3777
reactivity worth of, in lattice variations of plutonia—urania fuel elements, 21:38672 (WCAP-3726-1)
reactivity worth of, measurement techniques for, (E/T), 22:35623
reactivity worth of, prompt jump correction of inverse kinetics rod drop measurements for, (E/T), 24:29084
reactivity worth of, scram testing device for, 22:37569(P)
reactivity worth of, two-group approximation for epithermal neutrons in, 21:44949
reactivity worths in Agesta, measurement of, 21:23585 (AE-269)
reactivity worths of EBR-2, measured and calculated, 21:42725(R) (ANL-7357)
reactivity worths of FFTF, two-dimensional transport models for calculation of, 21:46938(R) (BNWL-501)
reactivity worths of high temperature gas cooled reactor, (E/T), 23:45052(R) (GA-9090)
reactivity worths of Peach Bottom, 21:10128(R) (GA-7426)
reactivity worths of Spert III E-core, 21:19464(R) (IDO-17207)
reactivity worths of Spert III, analysis of data on, 21:27801(R) (IDO-17228)
reactivity worths, measurements using rod drive method, 21:23728 (RCN-65)
regulation system for, design and fabrication of tiristor phase-sensitive demodulator for, 22:19212
release device for, design of electromagnetic, 21:15802(P)
rotation sequence of NERVA, effects on peripheral reactivity of optimum, 23:37669
seal for, design of, 21:5711(P)
seals for RAPSODIE, mechanical testing of Neoprene secondary, 23:4306(T) (EURFNR-520)
seals for sodium cooled, survey on elastomeric, 24:36061 (BNWL-1387)
sensing of, design of ultrasonic system for, 21:43126(P)
separation of boron-10 from, by pyrohydrolysis, 24:22722(T) (ANL-Trans-797)
separation of boron-10 from, by pyrohydrolysis, 24:11650 (CEA-N-1148, pp 81-97)
sheaths for, fabrication of stainless steel reinforced composite steel, 23:46026
shipping of cobalt-60-containing irradiated Bonus, design and performance of supplemental radiation shield for ATCOR container for, 24:2415 (K-TL-37)
shock absorber design for rod insertion, 21:23771(P)
shock absorber for rod type, description of hydraulic, 25:25970(P)
shock absorber for, design of material elongation, 22:1903(P)
shock absorbers for shutdown, description of disc separated radical tube, 25:37155(P)
shock absorbers for, design of compressed gas, 21:46912(P)
shrouds for EBR-II, measurement of voids in irradiated Type 304 stainless steel, 23:22584 (BNWL-790, pp 3.9-10)
spherical vacuum-supported shutdown, description of floating, 22:30394(P)
springs for absorption of shock from dropping of, description of leaf, 25:46348(P)
stability analyses of Garigliano, 21:30134(R) (EURAEC-1843)

stainless steel for, lanthanide content of optimum neutron-cross-section, 21:26778(P)
standpipes for gas cooled rod type, description of top and bottom presure vessel penetrating, 25:54066(P)
stress and strain in cylindrical borated graphite, model for thermal and radiation, 25:41409
suspension arrangement for, design of chain and sprocket, 25:23415(P)
testing experiences with Germany power and research reactors, analysis of, 23:1984
testing of aluminum-clad cadmium, under strain at 400 to 600°C, 21:44826 (DP-1101)
testing of boiling power reactor, requirements for field, 25:54098 (NEDO-10017)
testing of marine, procedures for reliability, 22:14233(T) (JPRS-43834)
testing of Peach Bottom, scram, 21:25624(R) (GA-7595)
testing of pressurized water, description of facility for, 23:17659
testing of pressurized-water reactor cadmium—indium—silver, analysis of thermal and wear, 22:30164(R) (WCAP-3703)
thimble cooling system for, performance of Elk River reactor, (E), 21:1153(R) (ACNP-66557)
use for reactivity measurements in water-moderated reactors, 22:30352
use of boron absorber rods for burnup compensation in fast reactors, effect on heat-release distribution of, (E/T), 22:35551
use of boron solutions for, radiolytic gas production from, 21:38430 (AECL-2670)
use of coarse rod type, for optimum axial temperature distribution in fuel channels, 24:36011
use of water for superheating reactors, effects of water temperature and density on, 23:47190(P)
use of, effects of equilibrium fuel cycle on optimum, 24:33557
valve for fast liquid metal cooled, development of gas venting capillary, 25:39244
velocity and oscillations of rod, during scramming, (E), 21:17540
velocity limiters for boiling water, results of development and testing of, 23:47186 (APED-5446)
velocity of, design of mechanism for control of, 23:24360(P)
vibration of blade-type, computer program for flow-induced, 21:36230 (KAPL-M-6721)
vibration of blade-type, in flow channels, ROVER computer program for calculating, 23:9641 (KAPL-M-6926)
vibration of, coolant cross flow and parallel flow induced, 22:7927
vibration of, reactivity perturbations from random, (T), 24:22485
vibration response of long flexible cylindrical, in axial flow, tentative design guide for calculation of, 25:41983 (ANL-ETD-71-7)
vibrations in turbulent coolant flow, model for studies of, 25:32124
vibrations induced by coolant pressure fluctuations, calculation of, 24:52869 (ANL-7685, pp 47-63)
vibrations induced by parallel coolant flow, effects of nearfield noise on, 24:52872 (ANL-7685, pp 112-40)
vibrations of rod type, effects on reactivity of, (T), 25:28835
water seals for Bonus, development of Teflon, 21:17467(R) (PRWRA-104)
withdrawal accidents in Fort St. Vrain Power Reactor Unit 1, effects on core temperature distribution of, 23:9118(R) (GA-7634)
withdrawal from high temperature gas cooled reactor, space effects and spectra effects on transients from, 24:33261
withdrawal of multi-rod, use of computer during startup for, 22:14339(P)
withdrawal transients for Fort St. Vrain Power Reactor Unit 1, calculation of, 23:9117(R) (GA-7453)
worth calculations for fast, numerical comparison of diffusion and transport programs for, 23:31156 (BNWL-992)
worth determination by rod drop and source jerk methods, iterative solution of kinetic equations for, 24:43845 (NP-10435)
worth minimizer for boiling water power, detailed description of design and operation of, 23:52191 (APED-5449)
performance in heavy water-lattice buckling measurements, 21:14061 (AE-254)

REACTOR CONTROL SYSTEMS
(Including all components except the control elements)
see also Reactor Control Elements
actuator environmental design criteria for S8DR, 22:16250 (NAA-SR-12605)
actuators for S8DR, modification and testing of rotary, 23:21533 (AI-AEC-12779)
algorithm for zero-power, development of linearized sampled-data, 22:32961 (ANL-7310, pp 377-430)
amplifier for, development of logarithmic and period, 22:21386 (RT/EL-(67)12)
analysis of distributed parameter type, (T), 25:34418
analysis of, statistical evaluation of power spectral density, 22:22684 (EUR-3734)
automation of ORNL, review of, 24:16251
auxiliary power supply for simulated 600 MW(e) reactor, reliability analysis of emergency, (T), 23:2043
behavior of self-regulated boiling water power reactor, analysis of startup and shutdown, 23:4197
bibliography on, July 1968, 22:42203 (ORNL-NSIC-45)
boiler feedwater heater-regulated, description of high-temperature reactor, 23:2018(P)
book: Control of Nuclear Power Reactors, in Russian, 25:10190
book: Instrumentation and Control Operations of Nuclear Power Plants, in Russian, 25:20713
book: Reactor Dynamics and Control: State Space Techniques, 22:46976
boric acid-filled zirconium tube system for power, description of multi-tube varying-level, 22:35518(P)
burnable poison solutions for, description of double, 22:25044(P)
calculation of optimal, linear programming technique for, (T), 23:7415 (SC-CR-68-3739)
characteristics of in-pile loop optimal, for Pegase Reactor, 23:4303 (CEA-R-3453)
characteristics of MPRE, analog computer simulation for, 23:28587 (ORNL-TM-1494)
characteristics of single loop boiling potassium Rankine cycle MPRE, computer simulation and mockup testing for, 23:28584 (ORNL-TM-1368)
characteristics of single loop boiling potassium Rankine cycle MPRE, mockup testing for, 23:28585 (ORNL-TM-1370)
circuit diagrams and descriptions for Spanish fast CORAL-I, 23:21528
circuit diagrams for Nuclear Test Gage, 23:21515 (GEMP-663)
circuit diagrams for Oconee Power Reactor Unit 1, 23:21413 (DOCKET-50269-6)
circuit for, design of controller, 22:53473(P)
circuits for fission chamber automatic, 22:33691 (ZfK-121, pp 249-319)
circuits for FMRB, 24:20600 (FMRB-1/70)
circuits for German boiling water, development of, 23:28449
circuits for simultaneous linear and logarithmic outputs, 23:38378(P)
circuits for, design of fail-safe gating, 23:20055(P)
circuits for, effects of relay failure and malfunction on performance of, 24:26842
components of, failure rate coefficients for, 22:16115 (CEA-R-3380)
computer applications in, conference on, 25:46294 (KURRI-TR-75)
computer applications in, list of, 25:46248 (KURRI-TR-75, pp 111-13)
computer for Halden Boiling, description of digital, 23:9177(R) (HPR-103)
computer interface problems in AGR type, 23:31132
computer on-line data logging, description of Garigliano Power Reactor, 23:11115 (GEAP-5645)
computer operations in Obrigheim Power, description of, 23:15592
computer programming for pressurized-water reactor on-line, development of, 22:53318
computer programs for graphical display of data for, description of digital, 24:24883 (ORNL-TM-2838)
computer programs for processing input data to Garigliano Power Reactor on-line digital computer, description of six, 22:39767 (EUR-3780)
computer system for HBWR, description of direct digital control, 23:19504(R) (HPR-104)
computer use in, review of, 23:19482
computer use in, status of, 25:46242 (KURRI-TR-75, pp 2-14)
computer, description of automation modes for ESSOR reactor on-line digital, 23:19531
computers for, maintenance of on-line, 25:28797
configuration of gas-cooled power reactor coolant temperature, description of, 23:6005(P)
configuration of hydrogen-fueled rocket, analysis of optimum, 23:2094
configuration of pressurized-water reactor automatic, description of, 23:6006(P)
configuration of pressurized-water, boiling, and gas-cooled power reactors, comparison of, 23:2015
configuration of Stade Power Reactor, description of, 23:1985
configuration of ZR-4 zero power reactor self-checking safety and interlock, description of, 22:47020
controller constraints on, use of Lagrangian multiplier formalism for design of, 23:28454
controller for pressurized water reactors, hybrid computer for design of, 24:38506
coolant flow rate control in UHTREX, equipment and programming of on-line digital computer system for, 23:28448 (LA-4123)
coolant temperature-actuated, description of multiple-signal, 23:19599(P)
core partial shutdown, description of 750 MW reactor multiple zone, 23:45148(P)
covariance methods for simulation of monitor patterns for on-line optimum computer, 24:16302 (HPR-106)
data acquisition system for SNEAK, performance of on-line digital computer, 25:1923 (KFK-1188)
data acquisition system for, design of on-line computer input remote, 22:32961 (ANL-7310, pp 377-430)
data acquisition systems use in, survey of, 25:23264 (UJV-2497-R)
description of 0.1 MW(e) boiling, (T), 22:22787(R) (ORNL-4216)
description of analog and digital computer, 25:41549
description of automatic, 22:18626(P)
description of automatic, for power plants, 22:48686
description of boiling reactor valve release water supply shutdown, 22:14213(P)
description of commercial nuclear power plant, 22:18485
description of computer optimized, 23:11168 (UCRL-71198)
description of delayed coolant response, for sudden load increase in power reactors, 22:14215(P)
description of digital computer startup, 23:11360(P)
description of digital computer system for detecting malfunctions in Fermi Fast Breeder Reactor, 22:22742
description of direct digital control, 22:6066
description of emergency shutdown, activated by pressure drop in cooling system, 22:6064(P)
description of fail-safe, with solid-state dynamic logic circuits, 22:18597
description of fast breeder, 22:18527
description of gas controlled variable-level liquid poison containing pipes for, 22:18645(P)
description of gravity—coolant flow driven absorber spheres for, 22:20880(P)
description of heavy water variable-volume concentric cylinders for heavy water-moderated, 22:18534(P)
description of heavy water-moderated, 22:30158 (STI/PUB-163)
description of HIFAR, 21:46949
description of high- and low-pressure water coolant safety flow, for reactor run-away, 22:14351(P)
description of hydrogen reversible flow, 22:10108(P)
description of instrumentation and power supply for, for power reactors, 22:20835
description of integrated digital and linear circuit, for low power testing of Pewee, 23:4389 (LA-DC-9620)
description of liquid neutron absorber regulating and safety, 22:20973(P)
description of liquid poison injection system in coolant loop for emergency shutdown, 22:18649(P)
description of liquid poison multi-signal response, 22:14331(P)
description of liquid reflector with movable absorption plates, 22:14334(P)
description of means for equalizing vapor pressure in two secondary heat transfer circuits, 22:42287(P)
description of minimal time-to-power startup, 22:12073(P)
description of multi-concentric cylinder separated liquid poison and coolant water flow channels for, 22:18537(P)
description of multiple input digital computer, 23:24048(P)
description of optimal, with spatial process effects, (T), 22:14302
description of power reactors safety, 22:22743
description of Prototype Fast Reactor, 22:18507
description of rapid shutdown, with means for pouring pellets of poison material into core, 22:12153(P)
description of reflector with removable absorber plates, 22:14333(P)
description of safety, 22:25024
description of scram-prevention system during sample handling, 22:14278(P)
description of SNEAK, 22:6093 (EURFNR-401)
description of superheated turbine water feedback circuit for reactor core inlet, 22:18535(P)
description of time-optimal zero power reactor digital, 23:4367
description of turbine superheat steam feedback circuit for reactor core inlet, 22:18536(P)
description of valve regulated liquid poison, 23:28644(P)
description of variable lithium concentration spectral shift, for sodium-cooled fast reactors, 22:16246(P)
description of volatile poison distillation and recirculation process for reactivity adjustment, 23:23880(P)
description of whistle orifice sound regulated fluid flow, 22:16336(P)
description with means for distillation of poison solution from primary circuit, 22:16338(P)
design analysis of NERO Marine, final, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
design and evaluation of HTLTR moderator heaters algorithm for digital computer, 23:9215
design and operation of fast-trip comparator for, 22:36127 (ORNL-TM-1638(Pt.9))
design and operation of feedback, lectures on, 22:36131 (WAPD-TM-724)
design based on use of digital rate meters, model for optimization of, 24:47987
design characteristics for neutron flux monitoring automatic, 25:60054(P)
design characteristics of boiling reactor power stabilizing, 25:39243(P)
design characteristics of on-line process computer, for boiling power reactors, 24:47839
design characteristics of SORA, use of mean value kinetic equations for calculation of, (T), 24:16239 (EUR-4408)
design drawings for NERO Marine, final, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
design features of automatic, with digital process computer, 24:24691
design for automatic startup and power regulation, 25:60169
design for boiling reactors using buoyant reflector and fuel systems, 21:44899(P)
design for boiling water power reactors with two turbines, 24:47842
design for control of xenon induced spatial power oscillations, use of three dimensional calculational method in, 24:46111
design for FFTF, 21:46938(R) (BNWL-501)
design for maintaining power levels in PEGGY, 22:22808 (CEA-R-3323)
design for optimal response to load demand changes, 21:38579
design for SGHWR, 23:13395
design for shutdown, 21:46990(P)
design for, application of state variable technique to, 23:33101
design modifications for power reactor, 25:59899
design of adaptive power distribution concept, 24:36013
design of analog adaptive, for automatic optimum power regulation, 23:21468
design of apparatus for flow of liquid poison through core, 24:18625(P)
design of Atomics International conceptual 1000 MW(e) LMFBR, 24:18580 (AI-AEC-12792(Vol.4))
design of automatic range switch, 22:33683 (LFEN-NI.-30-B)
design of automatic, for power plant operation, 23:21469
design of automatic, with solid state circuits, 24:47837
design of circuits for power reactor safety, techniques for, 23:47189 (NYO-3986-1(Vol.1))
design of closed-loop computer, use of queueing theory for, 25:41410
design of complex, applications of modern control theory in, 24:18622 (INR-1121)

design of computer, 24:46028
design of conceptual 1000 MW(e) high temperature helium cooled, 24:4026(R) (GA-9660)
design of digital analyzer for transfer function measurements in reactors, 22:32967 (EUR-3916)
design of digital computer operated closed loop reactivity, 24:33424
design of digital computer, for AGR type reactors, 24:47692
design of digital, for power and period, 25:1970(P)
design of fast power, methods for, 23:43119
design of fluid, 21:40647(P)
design of fluid, for high temperature and high radiation environment, 22:1832
design of general logic and pneumatic servo, for SPR-6, 21:44927 (UCID-15204)
design of HBWR, theoretical analysis of control strategy, 23:28454
design of hydropneumatic shutdown system for liquid poison injection, 24:50248(P)
design of ionization chamber, for startup, 22:47324(P)
design of linear coincidence-redundancy, 22:16113 (CEA-R-3335)
design of linear multivariable, feedback synthesis technique with multiple input-output cross coupling for, 25:44104 (COO-2109-4)
design of magnetic reed switch for, 22:3961(P)
design of motor-driven, with electromagnetic clutch, 24:2346(P)
design of multiple input and multiple output, basic state variable feedback technique for, (T), 24:33501
design of neutron-flux monitoring system using comparison circuits, 21:45487(P)
design of numerical ictometer, with variable time constants and integrated circuits, 22:16926 (CEA-R-3331)
design of on-line digital, 22:18470
design of optimal digital computer, for implementation of control and estimation functions, (T), 23:23878 (ANL-7530)
design of optimal, application of mathematical programming in, 23:2077
design of optimum rocket, 21:46929 (SC-CR-67-2746)
design of optimum, feedback of state variables through constant gain elements for, (T), 25:44106
design of optimum, performance index minimization of parameter space method for, (E/T), 25:31545 (ORNL-TM-3311)
design of optimum, review of techniques for, 24:50207
design of poison fluid filled U-shaped conduit for shutdown, 24:22512(P)
design of power distribution, synthesis of multichannel coupled regulator for, (T), 23:49674
design of power monitoring, 25:28672(P)
design of power reactor, problems and requirements for standardization of, 24:18607
design of power, standards for, 25:31458
design of power, with interacting small computers, 25:48243 (CEA-CONF-1773)
design of power, with on-line digital process computers, 24:24694
design of pressure actuated liquid poison, for emergency shutdown, 24:36040(P)
design of pressurized water, 25:28697 (CENPD-11)
design of pressurized water power, 23:31185 (WCAP-7306)
design of reactivity meter, based on reactor noise using two-detector cross correlation, 23:14108
design of rocket reactors, 21:42808
design of safety system with multiple sensors and redundant switching circuits, 24:38503(P)
design of shutdown amplifier for neutron-flux protection, 22:400
design of static, for programming and movement of control rod group assemblies, 24:24816
design of venturi, for pressurized water reactors, 21:46933(P)
design of vertical overflow, for TR—O Czechoslovakia, 21:44948 (UJV-1845)
design of water injection, for boiling reactor, 24:26746(P)
design of, common mode failure considerations for, 23:9188
design of, hybrid computer for, 25:10895 (ORNL-TM-3101)
design of, state variable feedback for, 21:38544
design of, systematic procedure for determination of parameters in, 25:41411
design of, use of actuators as logic elements in fail-safe, 25:28741
design parameters for Bohunice Power Reactor Unit 1, analysis of optimum, 23:34892
design parameters for boiling power reactor, with load actuated rapid opening water supply valves, 24:11175(P)
design parameters for coupled core, (T), 24:40938
design parameters for critical assemblies time-optimal digital computer, 23:26068 (ANL-7510)
design parameters for fixed shield plug vertical core FFTF, 23:31192 (APDA-187)
design parameters for heavy water moderated reactor moderator level regulating, 24:4045(P)
design parameters for large pressurized water, 23:28394
design parameters for pressurized water, 24:40943
design parameters for space vehicle power, with two phase fluid, 24:47917(P)
design parameters for, effects on reactor protection of, 23:37559 (NP-17851, pp 25-72)
design parameters of 1000 MW(e) reference design high temperature gas cooled, 24:38490 (DP-Report-135(Pt.2))
design parameters of Atucha Power Reactor, 23:34882
design parameters of automatic, for pressurized water power reactors, 25:50902
design parameters of Beznau Power Reactor Unit 1, 23:34893
design parameters of DICOR digital computer, 24:52863
design parameters of EL-4 on-line digital computer, 23.52296
design parameters of gas cooled reactor with coolant temperature actuation, 24:11178(P)
design parameters of Phenix Fast Reactor, 23:45038
design parameters of Ringhals Power Reactor Unit 1, 23:45031
design parameters of steam cooled superheating fast reactor, with movable blanket fuel assemblies, 24:18624(P)
design principles for protection instrument, analysis of, 22:50843 (ORNL-NSIC-51)
design problems of nuclear power plant, 22:20829
design requirements for multiple unit repairable redundant, (T), 24:36010 (ZJE-76)
design requirements for power reactor load following operation, 25:39148 (IAEA-119, 7p.)
design requirements of power reactor, 25:28675
design requirements of pressurized water reactor, 25:20551
design requirements of single circuit, for boiling dual purpose power and process heat reactors, 24:26747
design to compensate for power bursts in power reactors, 21:46923(P)
design with coupled low speed and high speed digital computers, 24:38502(P)
design with fine flux trim rods to eliminate hot channels, 25:60244(P)
design with moderator dumping system connected to primary cooling circuit, 24:47974(P)
design with tube carrying liquid control material through core, 21:46920(P)
detector pattern efficiency for pressurized-water reactor, analysis of neutron, 22:30164(R) (WCAP-3703)
development and operation of TSR-II, 21:35748
development at C.E.A.,, 21:34544
development at ORNL during Sept. 1966 to Sept. 1967, 22:22858 (ORNL-4219, pp 87-109)
development at ORNL, Sept. 1968—Aug. 1969, summary of, 24:9080 (ORNL-4459, pp 85-115)
development at ORNL, Sept. 1969—Aug. 1970, 25:13318(R) (ORNL-4620)
development for boiling-water reactors, survey of, 23:33574
development for Canadian reactors, 25:39154 (IAEA-119, 12p.)
development for conceptual 600 MW(e) heavy water cooled and moderated, 25:34329 (CEA-N-1421)
development for ORNL reactors, 23:16190 (ORNL-4335, pp 72-101)
development for reactors using modular instrumentation, 21:32513
development for sodium cooled fast breeders, 24:18627
development for sodium cooled fast breeders, 24:18626
development in Germany of digital computer, 25:39158 (IAEA-119, 15p.)
development in Japan of fast breeder reactor, 25:18120
development in U.S.S.R. of water cooled and moderated power, 24:18592
development of analog and digital computer, 24:7020
development of automatic, 24:22241
development of automatic, for gas cooled power reactors, 25:59894
development of automatic, for power reactors in France, 24:24693
development of automatic, review of, 24:24689
development of automatic, review of, 24:47844
development of Brittany Power Reactor (EL-4) digital computer, problems in, 23:40299
development of computer, international program for, 25:5974
development of conceptual 1000 MW(e) liquid metal cooled fast breeder, analysis of hydraulic and thermal, 23:49549 (BAW-1330)
development of digital computer, 24:31081(R) (HPR-124)
development of digital computer, 24:36041(R) (HPR-117)
development of digital computer, problems with, 23:40408
development of digital computer, review of, 25:18051
development of direct digital, for intrinsically unstable power reactors, (T), 25:46334 (RT/EL-(69)7, Paper 5)
development of flowing gas for direct cycle gas turbine gas cooled power reactor, 25:20712
development of flowing gas, for direct cycle gas turbine helium cooled power reactor, 25:20777
development of French power, 24:18472 (CEA-CONF-1455)
development of Halden Boiling Reactor on-line digital computer, 23:40346
development of heavy water-moderated reactor, review of, 23:31159 (BNWL-1031)
development of hybrid analog and digital computers, 25:1919 (BNWL-1498)
development of hydraulic, for water-cooled and superheating reactors, 22:46897(T) (EURFNR-497)
development of LMFBR, description of instruments and meters for, 23:2014 (WASH-1104)
development of movable fuel, for water cooled breeder reactors, (T), 25:15353 (WAPD-TM-968)
development of moving chamber, 24:47689 (ZJE-79)
development of neutron in-core monitor, 23:15750
development of neutron in-core monitors for boiling power reactor, 23:15580
development of on-line digital computer, 24:46136
development of on-line digital computer, 24:7019
development of on-line digital computer, 25:10125(R) (NP-18573)
development of on-line digital computer, for power reactors, 25:53893 (A/CONF.49/P-294)
development of on-line digital computer, for research reactor, 25:60185
development of on-line digital computer, use of modern control theory concept in, 24:11152
development of optimum power, description of, (T), 23:11127
development of optimum, for SNAP programs, 24:24895
development of PDP-8 computer-based, for DR-2, 22:51279(R) (RISO-M-729)
development of power reactor automatic, technological and economic requirements for, 23:2016
development of power reactor, state of the art and trends of, 23:47141
development of power, use of digital computers in, 24:31050 (ZJE-72)
development of pressurized water reactor, analog computer simulation for, 24:52864
development of pressurized water, physics calculations and measurements for, 24:38442(R) (NP-18267)
development of protective, review of, 25:28674
development of single fluid molten salt breeder reactor, analog computer program for, 25:31544 (ORNL-TM-3102)
development of transistorized redundant, 25:39346 (IAEA-119, 3p.)
development of two phase flow rods for automatic, 25:10187
development of, activities of Munich laboratory for, 24:20549
development requirements of power reactor, 25:54059
development using gaseous nuclear fuels, 23:26431(P)
development using modular instrumentation, 21:32529
developments in pressurized-water power reactor, description of recent, 23:19481
digital computer Digital Data Acquisition System, description of EBR-2 on-line, 23:52328 (ANL/EBR-1)
digital computer, description of direct, 23:13448
digital computer, use of reactivity balance method for Toshiba Training Reactor 1, 24:16250
digital computers for development for high-temperature gas-cooled power reactors of, 23:13446 (GAMD-8734)
Doppler and void coefficient effects on Marviken, 21:44873
drive unit for, maintenance manual for ORNL Model Q-2607 servo demand, 22:4505 (ORNL-TM-1638(Pt.7))
dynamic characteristics of computerized, polarity correlation algorithm for analysis of, 23:28625
dynamic characteristics of computerized, use of polarity-correlation algorithm for, 23:49582 (ANL-7410, pp 339-86)
dynamic response of closed loop, cross correlation method for evaluation of, (T), 24:29088
dynamics of LOFT, 23:52406(R) (IDO-17302)
economic aspects of, industrial, 22:23275
effectiveness of hydrogen diffusion into porous beds of zirconium hydride for reactivity control, (E/T), 22:16331
electric circuits protective, configuration of Lucens Reactor, 22:46957
electric wiring requirements for Dodewaard Power Reactor, 23:52287
electronics and physics of, review of basic, 23:21422
equation for distributed-parameter reactor optimum, clarification of integral, 22:39935
equations for Lur'e type, asymptotic stability determination for, 22:30363
equations for, application of state variable techniques for solution of, 22:46976
error detector for, design of solid-state, 21:8653
evaluation of high-performance, 21:27833 (ORNL-P-3011)
evaluation of NPR secondary, 21:40662 (HW-78526(Vol.1))
evaluation of optimum pressurized-water, (T), 22:50771
evaluation of power reactor two-detector cross-correlation 2DCT shutdown reactivity meter, 22:50738 (ORNL-4255)
evaluation of power spectral density, harmonic method for statistical, 22:22684 (EUR-3734)
failure and maintenance of power, 21:40634
failure of parallel stand-by, optimum test intervals for detection of, (T), 24:47841
failures in boiling water reactor, analysis of, 22:30207
failures in optimum, economic effects of, (T), 22:1828
failures in power, analyses of circuit or component, 24:3992 (ORNL-NSIC-29)
failures in safety circuits, reliability theory calculations of, 24:33336
flow control in, description of dual interconnected piston-actuated temperature sensors for valve-operated, 22:48782(P)
fluidic devices for, development of, 23:11918
flux-flattening liquid concentrations and multi-rod, operation of, 22:35692(P)
fuel element failure detection system for, design of amplifiers for fluid switches in, 22:1909
fuel, description of gas cooled graphite moderated reactor circulating particle type, 23:52331(P)
gas pressure-vacating fuel-free core zones for moderator-filled, configuration for pressurized-water reactor of, 22:48676(P)
gas-cooled power reactor neutron-flux- and coolant-temperature-activated flow-regulating, description of, 23:13382(P)
hydrogen propellant flow, for rocket reactors, 22:30286
instrumentation criteria and problems in power, analysis of, 23:1983
instrumentation for 2MW operation of Bulk Shielding Facility, description of revised, 23:13544 (ORNL-TM-2400)
instrumentation for boiling and pressurized water power, design comparisons of protection, 24:22374
instrumentation for Fast Flux Test Facility, description of core, 23:4300(R) (BNWL-880)
instrumentation for FFTF, specifications for, 23:7397 (BNWL-SA-1826)
instrumentation for FMRB, 24:20600 (FMRB-1/70)
instrumentation for German, review of, 22:53485
instrumentation for Otto Hahn Reactor, description of, 23:6035
instrumentation for Oyster Creek Power Reactor Unit 1 and Nine Mile Point Power Reactor, design criteria for in-core, 23:25980 (APED-5456)

instrumentation for power reactor, development of, 25:39242 (IAEA-119, 47p.)
instrumentation for power, special design requirements for, 24:52786
instrumentation for sodium cooled, development of, 25:28667 (HEDL-SA-170)
instrumentation for, description of Campbell systems, 23:24037
instrumentation for, design and operation requirements for, 25:51058
instrumentation for, development in Belgium of, 25:39150 (IAEA-119, 8p.)
instrumentation for, development in Czechoslovakia of, 25:39157 (IAEA-119, 13p.)
instrumentation for, development in Denmark of, 25:39146 (IAEA-119, 5p.)
instrumentation for, development in France of, 25:26084
instrumentation for, development in Japan of, 25:39156 (IAEA-119, 13p.)
instrumentation for, development in U.S. of, 25:39163 (IAEA-119, 29p.)
instrumentation for, development of in-core, 25:39159 (IAEA-119, 15p.)
instrumentation for, monitoring by semiconductor logic elements of performance of, 25:39348 (IAEA-119, 47p.)
instrumentation for, reliability analysis methods in Germany for, 25:39347 (IAEA-119, 7p.)
instrumentation for, reliability of, 25:39345 (IAEA-119, 3p.)
instrumentation for, review of development of, 24:38504
instrumentation for, statistics of fluctuations in, 25:42048 (ANL-7710, pp 263-364)
instrumentation in boiling water, analysis of functional common mode failures in, 25:1899 (NEDO-10189)
instrumentation in Japan marine reactor, design requirements for, 24:2046
kinetics for TR-O reactor hydraulic, analysis of optimum, (T), 22:44838 (UJV-1944)
logic for Spanish fast CORAL-I, equations for and descriptions of, 23:21528
logic systems for, redundance and independence of, 23:17815 (CEA-CONF-1062)
logic systems of, design of MOS integrated circuits for, 23:22136
maintenance for high-flux triple automatic, procedures for high-reliability corrective, 23:19594
maintenance of period safety module ORNL Model Q-2635, manual for, 22:30891 (ORNL-TM-1638(Pt.35))
maintenance of WR-1 reactor Technicon Auto Analyzer in-line boron analyzer, 23:17244 (AECL-3137)
maintenance requirements of redundant, 25:20552
method for moderator temperature monitoring, 24:50095(P)
model for, digital regulation of multivariable state vector, 24:33283
monitoring instrumentation performance in, checking signal circuit for determination of electrical, 22:42266(P)
monitoring of, method and device for, 22:25191(P)
neutron count rate meter for, circuits for automatic readout of low-level reciprocal, 23:35550 (RFP-925)
neutron detectors for, design of high-temperature fission chamber and propositional counter, 23:23881
neutron detectors for, performance of in-core fission chamber, 23:23882
neutron flux and heat output multiple signal-actuated, description of, 23:2143(P)
neutron flux and period measurements using FR-2 research, 23:9196 (KFK-782)
neutron flux detectors in, calibration of boron trifluoride-filled and boron-coated proportional and fission chamber, 22:28063 (CONF-661020-18)
neutron flux monitor for, description of, 23:45149(P)
neutron flux shape function for point reactor kinetics equations for, description of dependent, 22:18606
neutron flux-heat output meters for, description of combined signal, 22:14358(P)
neutron spectral calculations for, absorption lethargy dependence determination of, 22:1798
neutron spectral shift, method for heavy water moderated reactor, 22:7906(P)
neutron thermopiles in, performance of, 23:41157
noise analysis in, digital control algorithm for on-line, 24:38508
noise analysis of nonlinear, quasi-functional method for random, 23:43101
noise problems in, 22:36123 (CONF-680303-, pp 235-8)
nuclear counting channels for, comparison of wide-range analog, wide-range digital, and counting-Campbelling, 22:53488
Obrigheim Power, description of, 23:23827(T) (NP-tr-1740)
operating experience with German safety, 22:22720
operating manual for La Crosse, 23:1965 (ACNP-68505-D)
operation of 1000 MW(e) heavy water-moderated organic-cooled power, description of optimum, 22:50741 (WASH-1083)
operation of automatic, during off-normal reactor conditions, 25:26083
operation of automatic, role of computers in, 24:30972
operation of Fermi Fast Breeder automatic, 21:35619
operation of IBM 1800 on-line digital computer, in Yankee Power Reactor, 23:49527
operation of Lingen Power Reactor, description of, 23:9114
operation of NERVA XE series, 23:47285
operation of oil pressure-driven, on NS Savannah, 25:51676
operation of Phenix Fast Reactor, 23:45041
operation of pressurized water, 25:28697 (CENPD-11)
operation of SNAP 8 (S8DR), failure testing for, 23:11310 (NAA-SR-Memo-11373(Add.1))
operation of VK-50 Reactor automatic, 23:19452
operation of WR-1 reactor Technicon Auto Analyzer in-line boron analyzer, 23:17244 (AECL-3137)
operation procedures for Dodewaard Power Reactor on-line digital computer, 23:47148
operation requirements for, analysis of safe, 23:52493
operation requirements of pressurized water reactor, 23:45062
optimization of, computer hardware and software requirements for, 25:46280 (KURRI-TR-75, pp 88-98)
optimization of, mathematical model for, 22:18470
optimization of, Russian computer program for, 23:52467
optimization of, use of analog techniques for, 22:16278 (EUR-3735)
performance characteristics of power, 22:35522
performance improvement of Hanford Production Reactors (N) by analog simulation, 21:44892
performance of 1000 MW(e) steam-cooled fast power reactor, effects of perturbations and accidents on stability, (T), 22:37399 (AE-321)
performance of 25 MW(e) Geesthacht Power Reactor, 23:45025
performance of A-1 at 66 and 100 percent power levels, optimization of, (T), 23:40287
performance of A-1, effect of component specifications on, (T), 23:40288
performance of automatic and manual protective systems, safety testing of, 24:18794
performance of Bohunice Power Reactor Unit 1, analysis of 33, 66, and 100 percent output transition, 23:34891
performance of Bohunice Power Reactor Unit 1, effects of carbon dioxide outlet temperature quadratic regulation area on, 23:34890
performance of boiling reactor coolant flow, 24:28872
performance of boiling water, effects of gadolinium additions to fuel on, (T), 24:40933 (RT/FI-(70)20)
performance of closed loop computer, 25:51220
performance of computer, 24:46028
performance of digital computer, 24:47898 (CEA-CONF-1569)
performance of digital computers in boiling water power, 22:48685
performance of DIORIT Reactor on-line digital computer, 23:40406
performance of direct digital, hybrid computer analysis of, 24:38510
performance of Dresden Power Reactor Unit 1 on-line digital computer, 23:40303
performance of EDF-4 analog and digital computers, 23:43056
performance of EDF-4 digital computer, 23:40300
performance of electronic equipment in large power, 22:48682
performance of fast liquid metal cooled, analysis of real dead-time effects on computer simulation of automatic, 25:28804(T) (EURFNR-835)
performance of Fermi Fast Breeder Reactor automatic, during approach-to-power testing, 23:21412 (APDA-NTS-22)
performance of Fermi Fast Breeder, summary of, 23:1972 (APDA-225)
performance of FFTF core accident-detecting, analysis of, 23:4371
performance of French power, evaluation of, 24:18472 (CEA-CONF-1455)
performance of general purpose on-line digital computer safety system and, 24:16221 (UJV-2277-R,P,A)
performance of graphite moderated carbon dioxide cooled power, 24:28929
performance of γ radiation actuated, effects of prompt and delayed γ radiation on fast response, 25:28822
performance of heat pipe evaporators for reactivity control in rocket, (T), 25:15400
performance of High-Temperature Lattice Test Reactor digital computer, 23:40408
performance of High-Temperature Lattice Test Reactor on-line PDP-7 digital computer, description of, 23:2063 (BNWL-SA-1694(Rev.))
performance of hydraulic, for pulsed fast reactor scram, 24:50197
performance of Lingen Power Reactor, pre-operation tests for, 23:19458
performance of liquid lithium injection, for shutdown of liquid sodium cooled reactors, 24:26792 (KFK-1153)
performance of liquid metal-cooled space reactor power- and temperature-actuated, effects of heat-pipes on, (T), 23:4393
performance of Liverpool and Manchester Universities Research Reactor, (E/T), 23:43155
performance of malfunction detection analyzer in, 25:50901
performance of moveable-detector, in materials testing reactors, (T), 25:23344 (UJV-2375-RPA)
performance of on-line digital computer, in Garigliano, Latina, and Trino Power reactors, 23:40301
performance of on-line digital computers in, 24:22510
performance of Peach Bottom Power Reactor Unit 1 automatic, analysis of startup and power, 23:4264(R) (GA-8816)
performance of power and research reactor on-line digital computer, 23:40305
performance of power reactor, analysis of, 22:42220
performance of power, effects of optimum power response on, 22:35536
performance of power, using on-line digital computers, 24:20548
performance of power, with digital process computers, 24:24692
performance of pressurized-water reactor, effects on optimum operation of, 23:6013
performance of pressurized-water reactor, effects of response on, 22:30167(R) (WCAP-3708)
performance of pressurized-water reactor, error analysis for, (T), 22:30168(R) (WCAP-3710)
performance of rocket reactor, analysis of quasi-linear programming for calculating optimum, (T), 22:53406
performance of Savannah River Production Reactors on-line digital computer, 23:40422
performance of TRIGA, effects of strong absorber insertion and removal on, 23:52419
performance of VERA and VIPER Pulsed Fast Reactor on-line digital computer, 23:40407
performance of water-moderated rocket reactor helium-3, analysis of, 22:35575
performance of Windscale Advanced Gas-Cooled Reactor on-line digital computer, 23:40345
performance of, review of problems with, 24:38397
performance requirements of automatic, for pebble bed power reactors, 25:31543 (AAEC/E-203)
period meter for, performance of, 21:45453 (CNEA-181)
physics calculations and measurements for Hanford Production Reactors (N), analysis of minimum safe, 23:52438 (DUN-SA-120)
physics calculations and measurements for large reactor, analysis of minimum safe, 23:52438 (DUN-SA-120)
physics parameters for Connecticut Yankee Power Reactor first core, calculation of, 23:11123 (NYO-3250-27)
poison flow for shutdown, description of gas-pressure-injected valve-regulated constant-flow liquid, 23:11361(P)
poison fluid injection into core, design of device for, 24:16175(P)
poison introduction system for, using gaseous boron hydrides (B_2H_4 and B_2H_6), 23:9175(P)
poison solution introduction system for, with hollow rods passing through reactor core, 23:9176(P)
poisoning injection, using cadmium nitrate in HFIR, 21:40680(R) (ORNL-TM-1963)
power equilibrium, description of optimum multiple, 22:39924
power reactor multiple independent sensor, with multiple signal activation, 23:21577(P)
pressure balance, use of vapor condensation and vaporization heat for, 22:18641(P)
pressure operated fluid, design of boiling reactor with, 21:44901(P)
pressure-tube-type power reactor, description of multiple independent pressure suppressing- and cooling-zones for, 23:9133(P)
procedures for xenon induced spatial oscillations in pressurized water reactors, 23:43097 (WCAP-3680-21)
programming calculations for rocket reactors, description of linear, (T), 22:30285
radiation effects on drum actuator in NERVA, γ and neutron, 23:52427 (N-69-31870)
ramp generator circuit for very long period simulation in, 22:37620
reactivity balance instruments for, anomalous malfunction detection with on-line, 23:43103
reactivity calculations by on-line digital computer, algorithm for, 24:24879 (ORNL-TM-1473)
reactivity monitoring by, process computer for continuous, 25:54295(P)
reactivity worth of heterogeneous, two group approximation analysis of, (T), 23:52465 (UJV-2225-R)
redundancy techniques associated with, review of, 23:19580 (BNL-50120(Pt.1), pp 123-33)
reflector motion in high temperature fast, reactivity and power variations from, (E), 24:13619
regulation area of A-1, for coolant temperature control during startup, (T), 23:40286
reliability analysis of automatic, 22:16115 (CEA-R-3380)
reliability and safety of electrical, 21:26031
reliability of power, method for safety analysis of, 23:37433
reliability of redundant, 25:20552
reliability of relay-input regulator-type, 21:31973
reliability of, effects of circuit ground on, 25:51248
reliability of, effects of test frequency on, 22:32856
reliability of, effects on power reactor operating availability of, (E/T), 24:26788 (CEA-CONF-1453)
response characteristics of boiling water power reactor, 25:34332
response requirements for fast pulsed SORA, calculation of, (E/T), 24:20609
safety aspects of, lecture notes on, 23:2057 (NP-17649(Vol.1))
safety check of Gundremmingen Power Reactor, procedures for, 23:5985
safety flow-scheme for boiling power reactor, analysis of, 22:53314
safety instrumentation for, reliability analysis for, 22:16111 (CEA-R-3292)
safety requirements for boil-safe design of power reactor, analysis of, 22:53319
safety requirements for instrumentation of in-pile loop, analysis of, 22:53426
safety requirements for optimum power reactor, analysis of, (T), 22:53309
safety requirements for pulsed, analysis of, 22:44909
safety systems for, effects of test frequency on reliability of engineered, 22:32856
sensor probe circuits for shutdown, description of, 22:1910(P)
shutdown modifications in Elk River Power Reactor, 21:46861(R) (NUS-401)
shutdown monitoring device for reactor safety, description of, 22:6181(P)
shutdown reliability of power reactor, 21:40634
simulation of 1000 MW(e) single fluid molten salt breeder, analog computer, 24:38501 (ORNL-TM-2927)
simulation of 1000 MW(e) single fluid molten salt breeder, analog computer, 23:40340 (ORNL-TM-2489)
simulation of closed loop, for distributed parameter power reactor model, (T), 24:47835
simulation of digital, use of hybrid computer for, 24:38509

  simulation of power reactor neutron flux and period measurement in, error analysis by analog computer, 22:39819
  simulators for analysis of, use of digital computers for, 23:49555
  spring assembly for, design of hydraulically damped, 23:2460 (KFK-735)
  stability criteria for time-delay, analysis of N. N. Krasovkii's theory for, (T), 22:18591
  stability limits for coupled core, (T), 24:40937
  stability of automatic, description of multiplied error signal actuation for, 24:11327(P)
  stability of closed-loop, root locus method for analysis of, 25:60219
  stability of homogeneous, root-loci analysis of, (T), 24:40939
  stability of nonlinear, method for analysis of, (T), 24:33481
  stability of separate dual, for coupled core reactors, (T), 25:60051
  stability of, effects of delayed neutrons on, 23:2123
  stabilization functions for, calculation of first order system, (T), 23:45130
  startup procedures for automatic, for pressurized water power reactors, 25:50902
  synthesis of temperature feedback-optimal, 21:40531 (ANL-7290, pp 188-215)
  temperature detectors for, analytical and experimental determinations of response characteristics for resistance, 23:34908 (DUN-SA-101)
  temperature feedback point reactor model optimum, description of variational synthesis technique for, (T), 22:39933
  temperature monitors for, description of, 23:45149(P)
  temperature sensing, description of mid core coolant and moderator, 23:28634(P)
  testability of shutdown power, analyses of, 24:3992 (ORNL-NSIC-29)
  testing circuit for, description of independent double coil actuating relay, 23:24053(P)
  testing of digital computer, analysis of speed, 24:33281
  testing of Gundremmingen Power Reactor shutdown and turbine, analysis of dynamic, 23:49540
  testing of Peach Bottom Power Reactor Unit 1, analysis of transient, 23:9095 (GAMD-7900)
  testing of power reactor, procedure for operational, 22:5919 (CONF-671011-2)
  testing of, computerized techniques for, 25:51222
  thermocouple monitoring system for, description of digital computer high speed multiple, 23:40461(P)
  transfer function from spectral power for on-line, description of single time-constant, (T), 22:18478
  transfer functions for PEC Fast Test, comparison of calculated and analog-simulated, 23:52418
  transient response of, effects of eigenvalue sensitivity on, (T), 25:54258
  trip set-points for protective, criteria for determining, 22:44867
  tripping circuit for, description of magnetic amplifier, 22:12072(P)
  use of boron solution concentration, for xenon-135 equilibrium, 22:27510(P)
  use of computer controlled, for uniform withdrawal of control rods, 22:14339(P)
  use of hybrid computers for liquid sodium cooled fast power, 23:49548(T) (ANL-Trans-771)
  use of on-line analog computer in, 23:2725
  use of poison gas in coolant tubes for shutdown, 22:18652(P)
  use of variable hydrogen system for, 21:38580
  use of variable phase moderator liquid for, 22:25051(P)
  uses of on-line computers in Savannah River, summary of, 24:22479 (DPSPU-69-30-18)
REACTOR COOLANTS
  (For general studies. Coolants for specific reactors or reactor types are treated at the reactor or reactor-type entry.)
  analysis for cesium-137 by ion exchange and counting, 23:19665
  analysis for corrosion products by atomic absorption spectrometry, 24:7394 (AECL-3431)
  analysis for dissolved gas in organic, method of, 25:46340 (EUR-4503)
  analysis for fission-product krypton and xenon by trapping and gamma spectroscopy, 22:6257 (PG-Report-807)
  analysis for hydrogen and total gases at loop pressure, equipment and method for, 25:6258(R) (IN-1426)
  analysis for iodine-131 in presence of mixed fission products, 24:26933
  analysis of aqueous, for fluorine-18 and nitrogen-13 by ion exchange and γ spectrometry, 24:25010
  analysis of aqueous, ultracentrifugation techniques in, 22:45145 (K-1754)
  analysis of decomposition products of organic, by gas chromatography, review on, 22:37667
  analysis of organic, evaluation of methods for, 23:17317 (EUR-4086)
  analysis of organic, for chlorine by potentiometric titration, 24:22590
  analysis of organic, for gamma emitters, 25:41832(R) (AECL-3851)
  analysis of organic, for metallic impurities by spectrochemical method, 24:29196
  analysis of organic, use of gas chromatography in, 24:50321
  analysis of water, for rare earth radioisotopes by group separation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  analysis of water, lithium-drifted germanium gamma spectroscopy, 24:39207 (IN-1317, pp 233-381)
  analysis of, use of lithium-drifted germanium gamma spectrometers for, 22:30404(P)
  behavior of various, radiation effects on, 23:40318 (NP-17868)
  boiling burnout heat flux for, in subcooled forced-convection systems, 22:51174
  boiling burnout in, summary of research on, 22:44850
  boiling in, pressure-wave equipment and method for detection of, 23:45468(P)
  boiling of, research on detection of, 25:10769(R) (ORO-3911-3)
  book: Coolants for Nuclear Power Plants, in Russian, 22:32802
  book: Physico-chemical Analysis of Handling Liquid Metal Coolants (In Russian), 25:11342
  book: Thermo-Physical Properties of Materials of Nuclear Technology, in Russian, 22:27449
  book: Thermophysical Properties of Organic Coolants (In Russian), 25:8412
  book: Transport Phenomena in Liquid Metals and Semiconductors, 25:11410
  boron content in, design of instruments using mannitol-conductance and neutron-absorption techniques for determining, 23:47880 (WCAP-3690-7)
  circulation in one-loop system, stability of natural, (T), 25:8414
  cooling properties of, testing of electrically heated detector for measuring, 22:40293 (RISO-M-760)
  corrosive effects on magnesium, inhibition by magnesium surface nitridation, 23:36002(P)
  decontamination of, bacteriological processes in, 25:2327
  density of liquid, neutron radiometric device for measuring, 22:36121(P)
  density of vaporizing, in heated channels, model for calculation of, 24:2372 (CISE-R-132)
  deoxygenation of irradiated organic, MINOX process for catalytic, 25:23547 (EUR-4621)
  effects of alkaline earth impurities on sodium, 23:45235 (ANL-7520(Pt.1), pp 33-8)
  effects of chlorine-containing organic, on hydridation of zirconium alloys, relations of water on resistance to, 24:32379(P)
  fission product control in gas, system for, 25:57033
  fission product deposition and transport in, flowing in cylindrical tubes, mathematical models for, 24:16769 (KAPL-P-3838)
  fission product monitoring after fuel element rupture in, device for, 23:643(P)
  fission products in liquid, Cherenkov detector system for detection of, 25:39718(P)
  flow characteristics of, method of hydraulic calculation for, (T), 22:7928
  flow in fuel bundle subchannels, analysis of natural mixing of, (T), 22:33165
  flow in reactor fuel channels, design of device for controlling, 24:369(P)
  flow in reactor pressure tubes, design of remotely operated valves for controlling, 25:6456(P)
  flow of liquid metal, design and operation of system for control and measurement of, 22:23189 (BNWL-705)
  flow through circular tubes, method for prediction of turbulent, 23:35410
  flow through cores with interconnected channels, accuracy of calculation methods for, 24:5802
  flow through ducts, calculations for dynamic two-phase, 23:50032
  flowmeters for sodium, calibration of electromagnetic, 23:38371
  fluid flow siphon breaker control system for swimming-pool type, 22:14284(P)
  fluid level control system for swimming-pool reactor, description of plate-plug valve hole in core container for, 22:14280(P)
  freezing in large horizontal ducts, design of equipment for, 23:50005(P)
  gas bubbles in, acoustic method for detection of, 24:5799
  gas content in, equipment and methods for measuring, 23:9808(P)
  heat transfer between fuel element and, method for measuring, 23:38166(P)
  heat transfer by organic, effects of temperature and tube cross section on turbulent, (T), 22:27999
  heat transfer characteristics in, description of grid thermal accumulator for regulating, 22:16346(P)
  heat transfer in, solution of differential equations for maximum, (T), 23:47330
  heat transfer properties of emergency additive-containing water, testing of boiling, 22:42206(R) (SNE-40)
  heat transfer properties of gaseous, effects of refractory material particle-seeding on, 24:5797
  heat transfer to, from charcoal-filled U-tubes, measurement of rates of, 24:41603 (NP-10127)
  helium production in, effects of alpha decay, triple fission, and fission neutron irradiation on, 24:21401
  impurities in gas, infrared absorption hygrometer for measuring water, 24:4502 (BNWL-1134)
  impurities in gaseous, microwave equipment and techniques for determining, 23:7919
  iodine-131 removal from gaseous, efficiency of silver-impregnated molecular filters, 24:14226 (KFK-1065)
  mixing in fuel sub-assemblies, phosphorus-32 tracer method for measurement of, 24:19158
  monitoring of surface of water, splash protection for large-area detector for, 22:47348
  oxygen content in liquid metal, development of electrolytic cells for determining, 23:35560
  performance of graphite or synthetic mica suspension as heat transfer medium in water or water vapor, 23:40469(P)
  phase change through porous fuel elements, description of liquid, 22:42247(P)
  preparation of liquid hydrocarbon, description of pressurized thermal hydrodealkylation for, 23:40488(P)
  pressure control of, use of vapor condensation and vaporization heat for, 22:18641(P)
  properties and structure of, review of, 23:45496
  properties of dissociating gases for closed cycles, 23:52338(T) (JPRS-48330, pp 640-66)
  properties of liquid lithium, analysis of chemical and physical, 24:20555 (UCRL-50647)
  properties of liquid metal, review on, 25:45043
  properties of organic, physical and thermal, 25:8412
  properties of organic, review on, 25:29154
  pumping of, design of jet pump for, 23:21867(P)
  pumps for liquid metal, design of centrifugal free-surface, 23:43450
  purification of gaseous, by combustion on catalyst, 25:41914(P)
  purification of organic, using Attapulgus clay, 23:26226
  pyrolysis of gaseous, method of preventing carbon deposition on heat exchangers during, 23:36179(P)
  radiation chemistry of organic, research at ISPRA in 1961 to 1967 on, 23:19744 (EUR-3940-2)
  radiation effects on organic, 22:27832
  radio-chemical processes in gas-cooled reactors, description of, 22:35679
  radioinduced decomposition of, methods for determining degree of, 23:49869
  research on, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
  sample for liquid, description of flow-mixing continuous, 23:19586(P)
  sampling device for fuel element cladding failure detection, 23:28642(P)
  sampling of, use of γ spectrometer for, 25:31680
  separation of cesium from, by solvent extraction using ammonium tetrathiocyanatodianilinechromate, 24:14021
  simulation of hydrogenous, fabrication of polystyrene moldings for, 24:10218
  solvent properties of liquid, for gases, 22:4084
  temperature and velocity of liquid metal, electromagnetic method for measurement of, 23:4766
  temperature of gaseous, microwave equipment and techniques for measuring, 23:7919
  temperature of, effects of step increase in power on, 22:10019
  thermo-physical properties of biphenyl—diphenylmethane for use as, 23:15746
  thermodynamic properties of dissociating gas, 25:54284 (A/CONF.49/P-431)
  toxicity of biphenyl and terphenyl, to reactor personnel, characterization of, 24:41901
  toxicity of organic, in rat liver following ingestion, 25:21547 (EUR-4548)
  toxicity of polyphenyl, to lungs of mice following inhalation, 23:47935
  vapor pressure at high temperatures, apparatus and method for determination of, 23:33046 (AECL-3183)
  velocity of liquid metals in complex cores, electromagnetic method for measurement of, 23:4457(T) (ANL-Trans-690)
  void fraction measurements of water, design of neutron densimeter for, 22:30875
  voids in, detector for measuring, 23:17831(P)
  voids in, detector for measuring, 23:17834(P)
  voids in, detector for measuring, 23:17832(P)
REACTOR EXPERIMENTAL FACILITIES
  (See also specific reactors designed particularly as experimental facilities.)
  see also In-Pile Loops
  see also Reactor Thermal Columns
  availability of AARR, summary of, 21:40669 (ANL-7290, pp 27-119)
  beam hole configuration for ASTRA reactor, description of 751 eV proton energy spectra measurement at 10^{-5} to 10^{-9} torr in, 22:44898 (SGAE-PH-67/1968)
  beam hole design, 21:5699(P)
  beam hole, design parameters for DR-3 reactor low-background thermal neutron collimated, 23:17255 (RISO-147)
  beam holes for research reactor, description of external and internal, 22:16302
  beam holes for SORA reactor, description of optimum collimated neutron, (E/T), 23:13541 (EUR-4082)
  beam holes for, design of double-walled, 23:508(P)
  beam holes, description of operation techniques for, 22:12125
  beam port for capture gamma ray measurements in UVAR, design of tangential, 23:47246 (CNM-R-2(Vol.2), pp 841-52)
  beam port system for UMR-1, out of pile fission product production in, 23:47247 (CNM-R-2(Vol.2), pp 899-908)
  beam tube for, design of ultrahigh vacuum system for, 23:35454
  beam tube use at IRR-1 during 1965, 21:8041 (IA-1082, pp 1-19)
  beam tubes for, development of straight and curved, 22:10066(T) (AERE-Trans-1074)
  beam tubes, design of magnetic shielding system for tangential, 24:47908 (SGAE-PH-97/1970)
  book: Neutron Physics Practices. Volume I. Physics and Technology of Activation Probes, 25:43775
  comparison of fast and thermal, for radiation testing of fast reactor fuel elements, 24:1999 (ORNL-TM-2716)
  configuration of in-pile gas flow for radiation chemistry, description of, 22:53428
  configuration of liquid-drive vane-rotated cylinder-shaped sample holder, description of research reactor, 22:53439(P)
  configuration of remote-handling fast neutron cryogenic, description of reactor in-pile loop, 22:53430
  configuration of semi-homogeneous reactor vertical, description of thermal neutron flux flattening, 22:53434(P)
  configuration of shielded rod-actuated ring-type sample-cutting device for, description of, 22:48739(P)
  configuration of simulated pressurized-water reactor coolant loss accident, description of model core and vessel, 23:4272(R) (IDO-17264)
  configuration of swimming-pool reactor flux-penetrating multiple sample rotary shaft, description of, 23:6027(P)
  connectors for, description of minimum access in-core multipoint, 24:24923(P)
  control of Halden Boiling Reactor, use of digital computer for, 23:40304

control of pneumatic tube transfer system, microphone switch for, 23:16210
control of, model for optimization of, (T), 25:28768
control system for HERALD, description of PDP-8 digital computer, 23:23979
cooling of material testing, design and performance of cryostat for, 21:45471
cooling system design for horizontal hole, 22:10070(P)
cooling system for neutron activation analysis, nitrogen, 24:7244
cooling system for water cooled reactor vertical tube, description of forced turbulent flow, 24:4099(P)
data acquisition and control systems for, development of computer-based, 24:7674 (CONF-690301-, pp 287-98)
data acquisition system for SNEAK, performance of on-line digital computer, 25:1923 (KFK-1188)
data collection system for neutron time-of-flight, 25:18765
deformation of in-core, fast neutron radiation and thermal effects on, 24:52958 (BNWL-1430)
description for measurement of water content in soils by neutron attenuation, 24:5940 (RLO-1543-5)
description of 180° rotation, 22:1876(P)
description of Air Force Engineering Test Reactor north face, 23:45101 (AD-687501)
description of aqueous suspension fueled pulsed exponential pile, 22:25107
description of FRED reactivity excursion device for SEFOR, 23:33082(R) (GEAP-5754)
description of HOR, 22:25108
description of improved neutron diffraction, 22:14281(P)
description of ISPRA-1, 23:26081 (EUR-3940-1, pp 85-128)
description of LFR, 22:25112
description of NaK environment, for irradiation of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel pins, 22:25083(R) (GEAP-5541)
description of neutron capture, for monoenergetic gamma ray production, 22:25085 (IEA-133)
description of NPD, 22:30224
description of pressure vessel enclosed core center access, for high flux swimming-pool reactor, 22:14279(P)
description of SORA, 23:26080 (EUR-3940-1, pp 53-81)
description of swimming-pool reactor, 22:3914
description of swimming-pool reactor system for γ irradiation during shutdown, 22:39889(P)
description of U.K. research, 24:26813
description of VVR-K, 23:19533
description of WWR-M large vertical biological, 22:12100
design for EBR-2 in-core instrument thimble, conceptual, 24:4085 (ANL/EBR-4)
design for electric resistivity measurements at Ispra I, 23:16009 (EUR-4196)
design for expansion tests of small specimens in cold channel, 25:8123
design for neutron time-of-flight studies, 22:32453
design for producing a monochromatic gamma beam of variable energy using Compton scattering of titanium neutron capture gamma rays, 25:51253
design for providing thermal neutron beams to external coincidence facilities, 23:34916 (ANL-7282, pp 1-13)
design for radiation testing of fuels and materials, 25:55590(R) (EIR-192)
design for simulation of fast reactor breeding blankets in MIT Research Reactor, 24:22450 (MIT-4105-2)
design for thermal neutron radiography, 23:19918(P)
design of advanced specialized, description of, 25:54184 (A/CONF.49/P-593)
design of ASTRA, for fast neutron irradiation of seeds, 23:52423
design of boiling water capsule, 21:35776 (EURAEC-1867)
design of cold neutron source, 24:1730(P)
design of fast flux irradiation, for ETR, 24:22447 (IN-1350)
design of GTR and ASTR, 21:35743
design of high pressure helium, for irradiation of breeder fuel pins, 25:18192
design of internal-target facility for tangential through tube, 23:34917 (ANL-7282, pp 43-55)
design of liquid helium, for WWR-CM reactor, 24:29058
design of photographic equipment for fuel meltdown observation, 25:15384 (ANL-7578)
design of Siloe, 23:47257 (CNM-R-2(Vol.3), pp 1274-86)
design of swimming pool reactor tangential beam port, for γ irradiation studies, 24:31109
design of time-of-flight system for neutron inelastic scattering studies, 25:29362
design of Tsing Hua, for determination of uranium and thorium by delayed neutron activation analysis, 23:49597
design of WR-1 Reactor, for HWOCR EXP-WR1-951 fuel string radiation test, 21:40524 (AI-CE-44)
design parameters for BARN, 23:33092
design parameters for EBR-2 Mark B-7 fatigue testing, 23:33117 (IN-1228, pp 1-19)
design parameters for FFTF, 21:46938(R) (BNWL-501)
design parameters for fixed shield plug vertical core FFTF, 23:31192 (APDA-187)
design parameters for PCTR Fast Neutron Cavity, 23:23955 (BNWL-CC-1704)
design parameters for pressurized water reactor fuel element testing, 25:39164(T) (LB/G-3024)
design parameters of Ames Research Reactor -193° to 725°C fast neutron, 24:18702 (CONF-690910-, pp 153-6)
design parameters of available gas cooled fast reactor fuel element development, comparison of, 23:49564(R) (GA-9639)
design parameters of FRG beam tube target can for, 23:52420
design parameters of FRG target can for use to 200 to 1000°C in, 23:52421
design parameters of HFR, 24:13595 (CONF-671224)
design parameters of LPTR fast neutron, 24:9153 (UCRL-7513(Rev.1))
design parameters of SEFOR FRED fast reactivity excursion, 23:37651
design parameters of STEK time-of-flight equipment, 25:1934 (RCN-122, pp 107-19)
design parameters of TREAT, 24:18701 (CONF-690910-, pp 52-8)
design safety criteria for FTR, revised, 24:18695 (BNWL-823)
development for measurement of integral reactor physics parameters, 24:47891 (ANL-7610, pp 369-464)
development of neutron scattering, 25:18184
development of radiation testing, 24:18699 (CONF-690910)
development of TREAT, 24:18700 (CONF-690910-, pp 38-51)
drive mechanism trolley for swimming-pool reactor, design of two-directional, 22:3916(P)
EPR spectrometer for gamma radiation effects studies in, 22:16304(P)
EPR spectrometer for radiation effects studies in, 22:16303(P)
equipment for Argonne Low-Power Research Reactor, design of automated, 21:35739
equipment, materials, and methods for, review on, 25:48902
experiment positioning machine for HFIR vertical, development of hydraulic actuated, 23:37645
flexural pendulum design for, 21:26867(R) (HW-76635)
fluid flow design parameters for steam cooled fast module for increasing neutron fluxes in, 23:40385 (BNWL-998)
FRED reactivity excursion device for SEFOR, description of, 23:26085(R) (GEAP-5705)
fuel element failure location in multichannel, (T), 22:33003
fuel element rupture testing for NPR and PRTR, 21:8040 (HW-63863)
fuel element testing in MIR and SM-2, methods for, 25:48318
gamma dosimetry measurements in UTR-100 research reactor, use of chemical systems for, 21:40677 (NP-16991)
gamma flux mapping in FFTF, 21:46938(R) (BNWL-501)
gas sealing chamber for, description of air-cooled membrane-type, 22:48758(P)
handling equipment for use in horizontal beam hole of, 23:17649(P)
heat transfer analyses for FFTF rabbit system, 21:46938(R) (BNWL-501)
heat transfer design parameters for steam cooled fast module for increasing neutron fluxes in, 23:40385 (BNWL-998)
installation of combined cryostat—flux converter system for CP-5, 23:40401
instrumentation for DR2 research, description of computer based, 24:11275
instrumentation for ORNL, review of, 22:22824 (ORNL-4219, pp 121-4)
instrumentation for ORNL, review of, 22:22823 (ORNL-4219, pp 119-20)
instrumentation for, summary of development at ORNL, Sept. 1968—Aug. 1969, 24:9148 (ORNL-4459, pp 120-6)
instrumentation for, summary of development at ORNL, Sept. 1968—Aug. 1969, 24:9147 (ORNL-4459, pp 116-19)
instrumentation for, use of digital computers for communications control of on-line, 24:41055
instruments for neutron diffraction analyses in, development of, 24:13614
irradiation plug for, description of cylindrical multi-pressure environment pipe-access, 22:44912(P)
loading device for, description of remote control, 24:38612(P)
materials irradiation in, calorimeter for measurement of heat generation rates for nonfissile, (E), 23:49585 (DUN-SA-107)
measurement of uniaxial creep in heavy water moderated, design and performance of machines for, 25:37054 (AECL-3738)
moderators for cold neutron source in tangential beam hole, performance of, 25:3904 (IJS-571)
monitoring and control of, digital computer for, 23:45576 (CEA-R-3407)
neutron beam control device for, description of helical-grooved ball-and-shutter, 22:25195(P)
neutron beam extraction through tangential channel of, effect of material, geometry, and position of scatterers on, 22:44904
neutron beam hole in IRT Sofia, temperature of bismuth filter in, 24:18740
neutron beam in MTR, use of aluminum, iron, and sulfur filters to obtain 25-100 eV monochromatic, 23:37631
neutron collimator for, design of, 24:20611(P)
neutron collimators for, analysis of lead for in-pile, (E), 22:24369 (PINSTECH/PHY-9)
neutron convertor design for use in DMTR, 21:35725 (TRG-Report-1453)
neutron energy distribution in IRT-2000, (E), 23:49593
neutron fluence in, device for sample irradiation with adjustable, 24:31107
neutron flux and spectra in KUR, (E), 23:49596
neutron flux distributions in void extensions of Texas A and M reactor beam port, 24:2031 (DOCKET-50128-19)
neutron flux distributions in water gap and graphite reflector of Texas A and M reactor beam port, 24:2028 (DOCKET-50128-16)
neutron flux enhancement in beam hole of Pakistan research reactor, 21:40691
neutron flux in GETR, description of shield for flattening of, 24:7205
neutron flux in KUR heavy water, (E/T), 23:47275
neutron flux in Soviet SM-2, fast, (E), 24:13606
neutron flux in, effects of beam tubes on thermal, (E/T), 24:4158
neutron flux measurements in Soviet SM-2 reactor, 21:38673
neutron guide tubes for, 25:18185
neutron irradiation facility in Plum Brook Reactor, flux profiles of fast, 21:44943 (N-67-25854)
neutron radiography facility in TRITON, installation of industrial, 25:44158(T) (LB/G-2929)
neutron source at FR2, properties of hot, 24:11280
neutron source for FR2 reactor R3 horizontal hole, description of helium-cooled, 23:7402 (KFK-818)
neutron sources development in beam ports, hot, 25:18186
neutron spectra at beam hole of Merlin, (E), 25:20798
neutron spectra determination in beam tubes, use of low pressure cloud chamber for, 24:9145 (JUL-599-RX)
neutron spectra from horizontal channel of WWR-C-Prague, (E), 25:57125
neutron spectra in reentrant holes of, calculation of fast and thermal, (E/T), 24:11277
neutron spectra in, fast, 21:28798(R) (HW-78760)
neutron spectra measurements in HERALD, effects of cryogenic temperatures on, 24:11281
neutronics design parameters for steam cooled fast module for increasing neutron fluxes in, 23:40385 (BNWL-998)
operation of FFTF closed loop, limiting parameters for, (E/T), 24:5540 (BNWL-993)
operation of MIT Research Reactor, 23:47252 (CNM-R-2(Vol.3), pp 1287-1307)
operation of world-wide fast, review of, 23:34906
operation of, digital computer for control of, 24:18727
operation testing of argon storage and purification equipment for 10-MW Rapsodie circuit, 21:4377 (NP-16297)
performance at BR-2 during 1969, 25:39309 (NP-18809, pp 7.1-29)
performance of combined cryostat—flux converter system in CP-5, 23:40401
performance of FFTF, system effectiveness program for reliable, 24:11221 (BNWL-791)
performance of semiautomatic pneumatic shuttle system for water cooled and moderated research reactors, 25:60168
physics measurements for PCTR Fast Neutron Cavity, 23:23955 (BNWL-CC-1704)
pipe for swimming-pool reactor, description of core-enclosing vertically-rising spiral, 22:37548(P)
plug for in-pile loop, description of shielded fluid-cooled, 22:37567(P)
plug handling device for beam hole, description of ring-shielded spring-supported multiple rod-actuated electric, 22:50824(P)
plug-handling machine for, description of rotating inclined-plane plates for ring-connecting, 22:44903(P)
pneumatic rabbit system for, design of electronic control system for, 22:23358 (IA-1128, pp 185-212)
rabbit facility for FRJ-2 (Juelich), design of hydraulic, 25:10274
rabbit for research reactor, description of horizontal liquid-cooled hydraulic, 22:53435(P)
rabbit for research reactor, description of shield-penetrating multiple-sample pneumatic, 22:53436(P)
rabbit for, description of vertical closed-end sample separation device for horizontal pneumatic, 22:37568(P)
rabbit system for IRT-M, design of pneumatic, 25:57130
rabbit system for swimming pool, description of hydraulic, 22:47036(P)
rabbit system for, description of bobbin-wound lead measuring wire for hydraulic, 22:48740(P)
rabbit system for, temperature measurement of irradiation capsules in, 24:41715(P)
rabbit system for, timing system for pneumatic, 25:51185
rabbit system of, description of acoustic transducer and photoelectric position indicator for pneumatic, 24:26814(P)
rabbit system, description of one-directional-flow check valve for sample holder in concentric tube hydraulic, 22:50823(P)
rabbit system, description of rapid-stop transport container for slide-ejected capsule in pneumatic, 22:50820(P)
rabbit system, TRANTEMP computer program for transient temperature distributions in hydraulic, 23:26067 (ANL-7496)
rabbit systems for research, description of cylindrical-coupling variable-selector for multi-tube hydraulic, 22:47035(P)
rabbit systems for research, description of thread-drive rod-type, 22:47034(P)
radiation distribution around beam hole of RA reactor, measurement of spatial, 21:23730(T) (JPRS-39787)
radiation generator elements in IRT, gallium—indium—tin alloy activation in, 23:49594
radiation testing of boiling water capsule, 21:35776 (EURAEC-1867)
remote-handling equipment for, description of shielded irradiated sample-removal, 22:37573(P)
safety tests for PCTR Fast Neutron Cavity, 23:23955 (BNWL-CC-1704)
sample container for research, description of gas-insulated and electric-heated, 22:47033(P)
sample holder for research reactor, design parameters for 1 rpm rotating, 23:43163
sample irradiation in IRT-1000 cryogenic, description of, 23:37660
sample placement in, for gamma spectra measurement, 21:8049
shielding materials for beam hole, neutron effects on magnetic, 22:12103
shielding measurements in University of Virginia, for neutron and gamma attenuation in basic geometries, 23:12945 (AERE-R-5773(Vol.1), pp 319-35)

  shielding of Geesthacht Research Reactor, effects of boron steel and steel on, 21:40667 (ABS-THH-1014)
  stopper-sealed tube-access, description of swimming pool reactor, 22:25120(P)
  survey of, 25:57122
  target cans for, method for temperature control of, 22:22850
  target for activation analysis and half-life determination, description of rotating, 24:7235
  techniques used in worldwide, conference on, 22:12107
  test fluid pump and pressure equalizer with sealed heat exchanger for, description of, 22:3956(P)
  thermodynamic testing of helium cooled fuel element loop with natural circulation cooling, 24:31102 (JUL-630-RW)
  use for chemical research, review of, 22:12123
  use of BSR during October to December 1968, 23:21518(R) (ORNL-TM-2504)
  use of fast, description of present availability for, 22:30300 (BNWL-SA-1754)
  use of ORR during October to December 1968, 23:21519(R) (ORNL-TM-2537)
  use of TREAT transparent autoclave, for observation of excursion accident failure behavior of Zircaloy clad uranium oxide (UO_2) fuel elements, 24:18708 (CONF-690910-, pp 378-400)
REACTOR FUEL ELEMENTS
  4 design of natural uranium carbide, for HWOCR concept, 21:42724(R) (AI-CE-56)
  ablation of particulate plutonium, at hypersonic reentry, (T), 21:34398 (SC-CR-67-2573)
  ablation testing of zirconium—uranium hydride, 22:6078
  accident analysis for different types of, effects in test reactors on, 21:38690
  accident behavior of argon-bonded pin-type, TREAT testing of, 22:32735 (ANL-7310, pp 249-375)
  activity distribution along irradiated, gamma dose-rate field determination from, (E/T), 21:10136
  activity of γ sources from spent, calculation of cosine distribution for, (E/T), 22:7929
  alignment in coolant channels, end plug configuration for stacked, 22:42522(P)
  alignment structure for, description of radial direction opening claws, 22:14214(P)
  alpha sources on surfaces of, ionization chamber for monitoring, 25:18636(P)
  analyses of irradiated pin-type, chemical, 22:7788(R) (ANL-7382)
  analysis by neutron transmission, nondestructive, 23:35003(P)
  analysis for fissile content by measurement of prompt neutrons, 24:5609
  analysis for fissile materials, delayed neutron method for, 25:23755(R) (LA-4605)
  analysis for fission products, 21:36073(R) (ANL-7350)
  analysis for fission products by radiochemical method, 22:40023
  analysis for fission products, gamma spectrometric, 21:30386
  analysis for fissionable material by activation and scintillation counting, 25:8215(P)
  analysis for fissionable material by gamma spectrometry, 23:43475 (CONF-680506-, pp 205-20)
  analysis for fissionable material by neutron irradiation and measurement of delayed neutrons, 22:47075 (LA-DC-9848)
  analysis for fissionable material, sub-MeV neutron system for, 25:32177 (CONF-700541-, pp 349-62)
  analysis for fissionable materials, delayed-neutron response technique for, 23:2230
  analysis for fissionable materials, evaluation of radiometric methods for, 24:48239 (KFK-1208)
  analysis for fissionable materials, nondestructive activation method for, 22:21049(P)
  analysis for fissionable nuclei, delayed-neutron kinetic response method for, 23:2229
  analysis for neodymium by neutron activation and radiochemical separation, 23:7465
  analysis for plutonium and uranium by destructive methods, 25:37269(T) (LA-tr-71-24)
  analysis for plutonium and uranium isotopes by mass spectroscopy, 22:37639(T) (ANL-Trans-610, pp 1-56)
  analysis for plutonium and uranium, destructive methods for, 25:20911
  analysis for plutonium by nondestructive measurement of α-decay heat and neutron emission, 24:26998(P)
  analysis for plutonium dioxide, development of instrumentation and materials balance methods for, 25:4297
  analysis for plutonium isotopes by neutron-transmission methods, 22:4035
  analysis for plutonium, development of spectrometer systems for gamma and neutron scanning, 25:13230(R) (WCAP-7562-1)
  analysis for plutonium-239 and -241, nondestructive method for, 25:32174 (CONF-700541-, pp 266-80)
  analysis for plutonium-239 and -241, reliability of destructive and nondestructive methods for, (E), 25:32178 (CONF-700541-, pp 363-8)
  analysis for sulfur, amperometric, 22:8015
  analysis for thorium, direct titrimetric and potentiometric, 23:2188 (RT/CHI-(68)29)
  analysis for uranium isotopes by beta spectroscopy, 23:33158(P)
  analysis for uranium-235 and plutonium-239 simultaneously, pulsed neutron method for, 23:43270
  analysis for uranium-235 by γ scanning, errors in, 24:29215
  analysis for uranium-235 by γ spectrometry, 24:41208 (DP-Report-366)
  analysis of 19-rod, RBU Monte Carlo method for, 21:38707
  analysis of ATR, for boron and uranium-235 by spectral methods, 24:2098 (IN-1316, pp 6-35)
  analysis of ETR, for boron-10, silicon, and uranium-235 by spectral methods, 24:2098 (IN-1316, pp 6-35)
  analysis of failed, inert-atmosphere cell for, 22:4413
  analysis of fast-breeder, shielded facility for electron probe micro-, 22:27532 (GEAP-5344)
  analysis of graphite moderated uranium and plutonium—uranium, 21:27730
  analysis of HTGR GAIL IV, for fission products by gamma spectroscopy, 23:28718 (GA-8588)
  analysis of irradiated, 22:37639(T) (ANL-Trans-610, pp 1-56)
  analysis of irradiated and unirradiated, review of methods for, 21:45017 (WASH-1076, pp 96-114)
  analysis of irradiated HFIR, for transplutonium elements, 21:1421(R) (ORNL-3965)
  analysis of irradiated plutonium-enriched, by γ scanning, nondestructive, 23:28717 (BNWL-1005)
  analysis of irradiated, burnup determination by isotopic, 22:37647 (EUR-3949)
  analysis of irradiated, design of ARMOR hot-cell assembly for, 21:36324 (CEA-R-3171)
  analysis of irradiated, for carbon, hydrogen, nitrogen, and oxygen by remote combustion and inert gas fusion, 22:22983
  analysis of irradiated, for fission products, 21:10252 (RT/CHI-(66)26)
  analysis of irradiated, for fission products by precision gamma scanning, 24:5599 (AERE-R-5864)
  analysis of irradiated, for plutonium and uranium by x-ray fluorescence, 25:20913
  analysis of irradiated, for plutonium isotopes by γ and neutron counting, effects of matrix on, 25:20936
  analysis of irradiated, for rare earths by photometric titration and x-ray spectroscopy, 22:50902 (ANL-7425, pp 193-7)
  analysis of irradiated, for retained krypton and xenon, 21:15834 (TRG-Report-1382)
  analysis of irradiated, for uranium-235 by delayed neutron counting, 25:20936
  analysis of irradiated, shielded electron probe microanalyzer for, 25:51379
  analysis of low-enrichment superheater, thermal and hydraulic, 21:30282 (ACNP-67516)
  analysis of mixed oxide rods of, for plutonium-239 and plutonium-240 by measurement of prompt neutrons, 24:5609
  analysis of mixed oxide, for plutonium using gamma spectrometry, 25:46609 (BNWL-SA-3827)
  analysis of molten salt, for corrosion products, methods for, 21:12285(R) (ORNL-4039)
  analysis of molten salt, for oxide, equipment and method for hydrofluorination, 21:12285(R) (ORNL-4039)
  analysis of molybdenum- and Zircaloy-clad oxide, development of electron microprobe for, 25:26157
  analysis of MTR, for uranium-235, delayed neutron kinetic response methods for nondestructive, 23:24101 (LA-DC-9758)
  analysis of nitrate solutions of spent, spectrophotometric, 23:2187 (RT/CHI-(68)27)
  analysis of Omega West, development of method for, 24:18901(R) (LA-4320)
  analysis of oxidized, for surface uranium by x-ray fluorescence method, 23:13665
  analysis of plutonium- and uranium-enriched, by γ scanning, 23:35007
  analysis of SEFOR, nondestructive, 24:18901(R) (LA-4320)
  analysis of sheaths of, for fluorine contamination by charged-particle activation methods, 24:5619
  analysis of simulated BWR-type, for uranium-235, nondestructive method for, 25:356(R) (LA-4523)
  analysis of solutions of, by alpha and mass spectroscopy, 21:30350 (NBL-238)
  analysis of spent MTR-type, for uranium-235, delayed neutron method for, 25:356(R) (LA-4523)
  analysis of spent, by gamma spectroscopy, 21:45019 (WASH-1076, pp 130-7)
  analysis of spent, for radioisotopes by active and passive assay methods, 25:20937
  analysis of spent, for stainless steel corrosion products, electrochemical, 23:46942(R) (NYO-3417-11)
  analysis of unirradiated UTR, for uranium-235, γ-scanning methods for, 23:28737
  analysis of zirconium-clad, for thorium and uranium, 23:6 (IN-1203, pp 37-51)
  analysis of, comparison of analog models for, 21:31986
  analysis of, evaluation of nondestructive methods for, 24:18901(R) (LA-4320)
  analysis of, for fission products, use of paper chromatography for, 21:12345
  analysis of, isotopic neutron source equipment and methods for nondestructive, 25:48790 (CONF-710617-20)
  analysis of, moderator studies on californium-252 neutron source for nondestructive, 25:48727 (CONF-710402-(Vol.3), pp IV.99-104)
  analysis of, nondestructive active and passive methods for, 25:55004(R) (WCAP-7562-4)
  analysis of, potential of gamma spectrometry for, 21:45018 (WASH-1076, pp 115-29)
  arrangement for suspended, 21:15804(P)
  arrangement in cores for optimum power distribution, 21:15714(P)
  arrangement in GETR, effects on core neutron flux, 21:21759 (CONF-660511-, pp 6.2.1-10)
  arrangement of, effects on reactivity, 21:15713(P)
  assemblies and single rod of CIRENE-type uranium oxide (UO_2), calculation of effective resonance integral for, 23:6028
  assemblies for 1000 MW(e) heavy water-moderated organic-cooled power reactors, analysis of optimum, 22:50741 (WASH-1083)
  assemblies for AARR, brazing techniques and fabrication procedures for, 23:15671 (ANL-7458)
  assemblies for gas-cooled reactor, description of uranium oxide (UO_2) multi-rod, 22:25045(P)
  assemblies for neutron economy, description of, 22:42442(P)
  assemblies for water-cooled and -moderated reactor, description of center-positioned burnable poison rod in equally spaced multiple rod annular, 22:42232(P)
  assemblies for water-cooled and -moderated reactor, description of concentric cooling and insulating cylinder-enclosed multiple rod annular-shaped, 22:42233(P)
  assemblies inventory for SENA Power Reactor, description of April 1967 and February 1968, 23:1981(R) (TID-24752)
  assemblies of 1000 MW(e) liquid sodium cooled fast breeder, design characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
  assemblies of 18-element CANDU-BLW rod-type Zircaloy-4-clad uranium oxide (UO_2), effects of configuration and coolant on neutron flux peaking in, 22:44883 (AECL-3143)
  assemblies of 19 rod bundles, effects of configuration on coolant crossflow mixing in boiling and pressurized water reactors of, (E/T), 23:31168 (RT/ING-(69)2)
  assemblies of 19-element bundle-type rod-shaped, effects of temperature and pressure on water flow instability in simulated, (E/T), 22:53257 (AECL-2716)
  assemblies of 19-rod clustered, analysis of interim criticality tests on PRTR heavy water-moderated, 23:4189
  assemblies of 19-rod clustered, comparison of computer calculated and measured criticality studies on heavy water moderated, 23:4358
  assemblies of AGR-type reactor, analysis of fluid flow pressure drop in 36-rod-cluster, 23:13492
  assemblies of alternate-spaced multiple vertical-arranged plate-shaped, description of horizontal varying-flow coolant-grooves for, 23:15742(P)
  assemblies of aluminum—uranium alloy plate type, description of water cooled reactor central tube supported radially extending, 23:40485(P)
  assemblies of aluminum-clad uranium oxide (UO_2), criticality of multi-rod circular, 22:32740(R) (BAW-3647-7)
  assemblies of ATR, quality control of, 23:33084 (IN-1228, pp 74-110)
  assemblies of ATRC research reactor, description of concept of, 23:9202
  assemblies of boiling reactor bundle-type, description of right angle four point leaf spring and stop spacers in multiple vertical, 23:21497(P)
  assemblies of boiling reactor parallel rod type, description of sectioned spiral baffles for, 23:37844(P)
  assemblies of boiling reactor, computer analysis of three-dimensional power and void distributions in, 22:22763
  assemblies of boiling reactor, FROST computer program for kinetics of square, 23:33039 (KR-133)
  assemblies of bottom-supported vertical multiple rod-type, description of graphite-moderated gas-cooled reactor central suspended control rod, 22:53328(P)
  assemblies of bundle arranged pin type, description of solid end supported internal coolant channeled, 23:40493(P)
  assemblies of bundle-type cylindrical, calculation of temperature distribution in liquid metal-cooled, (T), 22:44865
  assemblies of checkerboard arranged series connected thermionic, 23:40465(P)
  assemblies of circular and hexagonal cross section ceramic dispersion-type tubular, description of multi-pattern cluster, 22:37610(P)
  assemblies of CIRENE-type uranium oxide (UO_2) rod-type, measurement of fast fission ratio in, 23:6029
  assemblies of cluster-type multiple parallel Zircaloy clad stacked pellet, 23:21581(P)
  assemblies of clustered rod, descriptions of spaced guide tubes in, 22:30398(P)
  assemblies of clusters of, description of, 22:33111(P)
  assemblies of clusters of, with a retaining member, 22:33110(P)
  assemblies of concentric cylinder, longitudinal hydraulic wave phenomena in coolant flow through, (T), 23:7435
  assemblies of conceptual 250 MW boiling heavy water-moderated reactor, effects of heated and unheated central rod on critical heat flux of 19-rod bundle-type, 23:17190 (TID-24956)
  assemblies of Connecticut Yankee Power Reactor first core, calculation of physics parameters in, 23:11123 (NYO-3250-27)
  assemblies of container-enclosed, description of removable end-plug and coolant nozzle for, 22:42419(P)
  assemblies of cylindrical casing-enclosed, description of top-locked bottom-supported upward coolant flow, 22:42420(P)
  assemblies of cylindrical cluster-type, measurement of 6.7 eV resonance absorption for uranium-238, 22:18607
  assemblies of cylindrical multiple vertical-stacked hollow cup-shaped magnesium alloy-end-plugged and Zircaloy- or graphite-end-pieced, description of, 22:42504(P)
  assemblies of cylindrical stainless steel-clad fission product-absorbing carbon-containing graphite-moderated, description of moderated and reflected, 22:42456(P)
  assemblies of description of pressure tube type, arranged symmetrically in, 24:11193(P)
  assemblies of Dresden 1 type, effects of emergency spray cooling injection on high temperature, 23:33066(R) (ORNL-4374)
  assemblies of EBOR, development of silicon carbide (SiC)-clad beryllium oxide (BeO)-matrix thorium oxide (ThO_2)—uranium oxide (UO_2) rod-type, 23:13504(R) (GA-6742)
  assemblies of EBR-2, model analysis for turbulent coolant flow in, (E), 23:52347 (ANL-6549)
  assemblies of EBR-2, radiation effects on dimensions of stainless steel clad, in-pile, 23:52348 (ANL/EBR-2)
  assemblies of Elk River Power Reactor, fabrication requirements for recycle, 23:4148

assemblies of end deformed plate type, fabrication of multiple stacked and welded, 23:37821(P)
assemblies of EWA-2 and EWA-4, effects of coolant loss and ramp reactivity on temperature transients in, 24:4090 (INR-1090)
assemblies of Fast Flux Test Facility, fabrication of, 23:4300(R) (BNWL-880)
assemblies of fast gas-cooled reactor, description of six-fin interlocking, 23:6011(P)
assemblies of fast liquid metal-cooled, description of upward-flow-cooled bundle-arranged multiple tubular pin-type, 23:11243(P)
assemblies of fast liquid sodium cooled, bubble and vapor slug growth for superheat conditions in, (E/T), 23:49557 (RD/B/N-1418)
assemblies of fast reactor, computer programs for deformation and expansion effects of, 23:15599(T) (EURFNR-541)
assemblies of fast reactor, design requirements of shipping casks for irradiated, 22:42168 (BNWL-SA-2002)
assemblies of fast reactor, for low coolant volume fraction, 23:2510(P)
assemblies of Fermi Fast Breeder Reactor, inspection of, 23:9071 (APDA-CFE-24)
assemblies of FFTF, fabrication of optimum, 23:2036 (WASH-1108)
assemblies of FHUST simulated, design parameters for, 23:19512(R) (IDO-17266)
assemblies of fin shaped, description of tube mounted offset, 24:24922(P)
assemblies of finned parallel rod type, description of temperature equalizing twisted thermal strips for, 23:37809(P)
assemblies of finned tube spaced multiple parallel bar shaped, 23:37782(P)
assemblies of Fort St. Vrain Power Reactor Unit 1, calculation of optimum flow configuration for, 23:9117(R) (GA-7453)
assemblies of gas cooled or liquid metal cooled, design parameters for on-load refueled granule filled tube shaped, 24:5531(P)
assemblies of gas- and steam-cooled reactors, COMIX 1, 2, and 3 computer programs for optimum hot channel temperatures with transverse coolant mixing in, 23:19496(T) (EURFNR-584)
assemblies of gas-cooled reactor sleeve-insulated, description of, 22:35515(P)
assemblies of grid-supported longitudinal projection-spaced parallel vertical-sheathed rod-type cluster, description of, 22:42511(P)
assemblies of grid-supported thermal-insulated multiple parallel clad rod-type, description of gas-cooled reactor, 22:42273(P)
assemblies of groove-secured multiple vertical and parallel sheathed bar-type, description of upward-flow liquid metal-cooled reactors, 22:42243(P)
assemblies of Halden Boiling Reactor vibrocompacted plutonium oxide (PuO_2)—uranium oxide (UO_2), description of test, 23:9177(R) (HPR-103)
assemblies of Halden Boiling Reactor Zircaloy-2- and Zircaloy-4-clad uranium oxide (UO_2) pellet-type, description of test, 23:9177(R) (HPR-103)
assemblies of Halden Boiling Reactor Zircaloy-2-clad thorium oxide (ThO_2)—uranium oxide (UO_2), description of test, 23:9177(R) (HPR-103)
assemblies of HBWR vibrocompacted sintered-pellet Zircaloy 2-clad uranium oxide (UO_2), description of test, 23:19504(R) (HPR-104)
assemblies of HBWR Zircaloy 2 clad uranium oxide (UO_2) pellet and powder, description of test, 24:1953(R) (HPR-112)
assemblies of heavy water-moderated natural uranium, analysis of core parameters for, (E), 22:22765
assemblies of high-temperature gas-cooled, description of hexagonal-shaped sleeve-covered columnar moderator block with multiple parallel symmetrically-arranged, 22:48671(P)
assemblies of Incoloy 800- and chromium—nickel—stainless steel-clad uranium oxide (UO_2) pellet-type and vibratory compacted, fabrication of, 22:42213 (WCAP-3374-5)
assemblies of integral pressurized-water reactor, description of support grids for, 23:2000(P)
assemblies of internally-supported bowing-compensating, description of, 22:25189(P)
assemblies of jacket-enclosed thermal-insulated multiple rod-type, description of heavy water-moderated reactor, 22:42253(P)
assemblies of juxtapositioned chamfered end prismatic, 23:37819(P)
assemblies of L- and T-shaped pellet-type, description of parallel equi-spaced right angle-intersecting walls for, 22:37604(P)
assemblies of liquid sodium cooled, hydrodynamic and thermodynamic stability of seven rod hexagonal, (T), 23:52354 (UJV-2238-R)
assemblies of liquid sodium-cooled fast reactor, analysis of coolant mixing in, (E/T), 22:35476 (WASH-1096)
assemblies of liquid-moderated reactor, description of burnable poison parallel multi-plate, 22:25170(P)
assemblies of load-bearing cup-core, description of arrangement for, 22:42437(P)
assemblies of longitudinally elongated trifids with three slab-type angularly displaced fins, description of self-supporting and self-aligning, 22:37590(P)
assemblies of MPRE rod type, effects of coolant flow distribution on hot spots in, 23:28586 (ORNL-TM-1371)
assemblies of multiple annular member-spaced rod-type, description of, 22:42550(P)
assemblies of multiple axially-supported carbon- and stainless steel-coated conical-connected, description of, 22:42512(P)
assemblies of multiple bow shaped plate type, description of radially supported tube forming, 23:37658(P)
assemblies of multiple canned parallel cluster-type, description of lateral ring supports for concentric circle, 22:42417(P)
assemblies of multiple clad pencil-type, description of parabola-shaped support grid for, 23:4465(P)
assemblies of multiple concentric cylinder multi-region, description of reactor control system by rotating, 22:42406(P)
assemblies of multiple concentric cylinder-enclosed internally-cooled annular-shaped, description of superheating reactor, 22:42255(P)
assemblies of multiple concentric-circle-arranged rod-type, description of vented support for longitudinal and transverse coolant flow in, 23:19592(P)
assemblies of multiple elongated cylindrical, description of lattice-forming alternating dimple and strip-spring spacing system for, 22:50877(P)
assemblies of multiple elongated parallel, description of servo-driven tube-type or cage-type control rod for, 22:42408(P)
assemblies of multiple elongated, description of coolant deflecting vanes for grid-supported parallel-spaced, 23:4260(P)
assemblies of multiple flexible metal-clad liquid metal-insulated multi-region variable-geometry elongated tube-type, description of square lattice, 22:53479(P)
assemblies of multiple grid-supported clad pencil-type, description of helical-grooved, 22:42531(P)
assemblies of multiple grid-supported fission gas-channeled pencil-type cluster, description of, 22:42549(P)
assemblies of multiple interlocking helical-finned pencil-type, description of collar-supported, 22:42405(P)
assemblies of multiple interlocking tubular spine-type, description of, 22:42505(P)
assemblies of multiple layer spiral shaped rod spaced uranium, description of tube enclosed, 23:37783(P)
assemblies of multiple longitudinally-spaced rod-type bundles, description of clad, 22:42530(P)
assemblies of multiple moderator-sheathed cluster-type, description of grid-supported parallel array, 22:42477(P)
assemblies of multiple moderator-spaced, description of heterogeneous heavy water-cooled and -moderated reactor, 22:42274(P)
assemblies of multiple non-metallic pellet-type, description of alternating layer-arranged solid and hollow, 23:11363(P)
assemblies of multiple parallel annularly spaced sheathed rod-type, description of perforated jacket-enclosed centrally-cooled, 22:42453(P)
assemblies of multiple parallel bundle-type, description of uniform concentration and varying concentration pencils in, 22:42416(P)
assemblies of multiple parallel clad ceramic, description of longitudinal-connected, 22:42498(P)
assemblies of multiple parallel cluster-type, description of heterogeneous reactor key-coupled longitudinal radially-directed straight fins in, 22:42235(P)
assemblies of multiple parallel corrugated plates, description of, 23:37778(P)
assemblies of multiple parallel cylindrical pencil type, description of helical grooved clad polygon, 23:24032(P)
assemblies of multiple parallel edge-supported rectangular plate-type, description of, 22:39916(P)
assemblies of multiple parallel graphite-moderated rod-type, description of, 22:42539(P)
assemblies of multiple parallel low flow-resistance cross-section rod-type, description of, 22:42425(P)
assemblies of multiple parallel pencil-type, description of multiple metal ring-connected circular moderator block, 22:42542(P)
assemblies of multiple parallel pin-type, description of plate-penetrating deformed support pegs for, 22:42476(P)
assemblies of multiple parallel star-shaped cross-section, description of convex-shaped container-enclosed, 22:42421(P)
assemblies of multiple parallel tube-enclosed coolant-deflecting rod-type, description of water-cooled reactor, 22:42565(P)
assemblies of multiple parallel vertical-clad cluster, description of spaced annularly-arranged, 22:42500(P)
assemblies of multiple parallel vertical-sheathed cluster, description of spaced, 22:42497(P)
assemblies of multiple parallel vertical-sheathed thermal-insulated pencil-type, description of, 22:42538(P)
assemblies of multiple parallel vertical-sheathed bar-type, description of upward-flow liquid metal-cooled reactor, 22:42254(P)
assemblies of multiple parallel vertical-sheathed symmetrically-arranged, description of disk-supported and -interconnected column-type, 22:42478(P)
assemblies of multiple parallel vertical-sheathed, description of gas-cooled reactor, 22:42257(P)
assemblies of multiple parallel, description of cross-spacers and axial spacer for, 22:30395(P)
assemblies of multiple parallel, description of symmetric nodule-separated concentric rings, 22:25174(P)
assemblies of multiple parallel, description of transverse braced and padded, 22:25173(P)
assemblies of multiple parallel-spaced vertical-sheathed rod-type, description of multiple male-and-female-connected, 22:42422(P)
assemblies of multiple parallel-spaced, description of strip-fabricated support grids for, 22:42469(P)
assemblies of multiple pin bundle-type, description of upward coolant flow core hold-down system for, 22:42411(P)
assemblies of multiple pin type, description of top and bottom blanket arranged, 23:37781(P)
assemblies of multiple plate type, description of longitudinal corrugated metal spacers for, 23:37811(P)
assemblies of multiple rod-shaped dumbbell-grouped, description of helical-flow-inducing multiple offset vertical-stacked, 23:19600(P)
assemblies of multiple rod-shaped rib-separated bolt-secured, description of tube-enclosed, 23:4468(P)
assemblies of multiple rod-shaped, description of removable support plates for bundle-type, 23:19590(P)
assemblies of multiple rod-type ceramic, description of ceramic moderator annular-shaped core for, 22:42414(P)
assemblies of multiple rod-type, measurement of flow mixing in, 23:38158 (AEEW-M-906)
assemblies of multiple sealed pressure tube-enclosed emergency spray-cooled, description of, 23:2144(P)
assemblies of multiple sheathed stacked cluster-type, description graphite sleeve-supported equal-spaced, 22:42418(P)
assemblies of multiple sleeve-enclosed variable-fuel pellet-type, description of spaced, 22:42551(P)
assemblies of multiple slug-type, description of multiple longitudinal graphite fin-separated graphite cylinder- and sleeve-enclosed, 22:42475(P)
assemblies of multiple spaced cluster, description of dual end-located web-type support grids for, 22:42541(P)
assemblies of multiple stacked annular-shaped link-connected helical-flow spine-type, description of cylindrical moderated, 22:42423(P)
assemblies of multiple stacked elongate, with retractable spacers in ends, 23:37824(P)
assemblies of multiple stacked elongate, with retractable spacers in ends, 23:37823(P)
assemblies of multiple three-group Zircaloy-clad pellet-type, description of flexible Zircaloy wire-spacers for, 23:6045(P)
assemblies of multiple tubular fixed and removable, description of sequentially-operated dual-latch for, 22:42455(P)
assemblies of multiple vertical and parallel, description of interconnected helical longitudinal deflecting plates on sheathed, 22:42454(P)
assemblies of multiple vertical cylindrically-enclosed parallel end-supported, description of, 22:42426(P)
assemblies of multiple vertical hexagonal-shaped, description of liquid-cooled fast reactor, 22:42252(P)
assemblies of multiple vertical-sheathed cluster-type, description of graphite-sleeved and plate-supported, 22:42404(P)
assemblies of multiple vertical-sheathed insulated multi-section ring-shaped, description of grid-supported cluster-type, 22:42474(P)
assemblies of multiple vertical-sheathed parallel pencil-type, description of rod-connected end plugs for, 22:42403(P)
assemblies of multiple vertical-sheathed tubular, description of coolant flow-controlling apertures for, 22:42472(P)
assemblies of multiple vertical-stacked end-spaced and stabilized radially-baffled, description of, 22:42508(P)
assemblies of multiple vertical-stacked end-spaced and stabilized, description of, 22:42507(P)
assemblies of multiple vertically-cooled and -moderated, description of ladder-like horizontal, 22:42540(P)
assemblies of multiple-level four-square-lattice rods of pellet-type, description of flat-spacer-divided and enclosed, 22:42513(P)
assemblies of multiple-plate, hydrostatic divergence of plate deflections in, (T), 23:47346
assemblies of multiple-plate, modes of pressure wave propagation in, (T), 23:47347
assemblies of niobium—zirconium clad uranium oxide (UO_2), radiation effects on, 22:22830
assemblies of NPTF, effects of sodium heating on pressure in, 23:33079(R) (BNWL-941)
assemblies of parallel longitudinal, description of spring pin connected end supported, 23:40490(P)
assemblies of parallel longitudinal, description of spaced polygonal, 23:40489(P)
assemblies of parallel multiple plate type, description of bottom mounted side supported easy access, 23:37810(P)
assemblies of parallel pencil type, description of spigot ring supported tie-rod spaced, 24:4062(P)
assemblies of parallel plate type, description of end supported cold forge secured, 23:37803(P)
assemblies of parallel rod type, description of offset spaced, 24:4174(P)
assemblies of parallel rod type, description of uniform spaced control elements in, 24:5572(P)
assemblies of parallel rod-type, characteristics of departure from nuclear boiling during pressure blowdown in, (E), 25:8418
assemblies of parallel- and helical-finned rod-shaped, description of hexagonal-arranged bundle-type, 23:2150(P)
assemblies of PCTR plutonium oxide (PuO_2)—uranium oxide (UO_2), physics measurements for, 23:6020(R) (BNWL-887)
assemblies of PCTR water-moderated square-pitch rod-type plutonium oxide (PuO_2)—uranium oxide (UO_2), physics parameters for, (E/T), 23:13539(R) (BNWL-921)
assemblies of pin type, description of grid spaced cluster arranged, 23:24054(P)
assemblies of pin type, fabrication of FTR, 23:26069(R) (BNWL-660)
assemblies of Piqua Power Reactor, safety evaluation of modified, 23:28363 (NAA-SR-12516)
assemblies of plate-type, design of, 23:35369(P)
assemblies of plutonium oxide (PuO_2), effects of 6.1 wt. percent burnup in BR-5 on, (E), 22:35615
assemblies of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2), accuracy of calculation methods for power distribution in, 23:4342
assemblies of plutonium oxide (PuO_2)—uranium oxide (UO_2) Fast Test Reactor, use of MARS computer code for effects of configuration and enrichment on meltdown of, 22:37554 (APDA-209)
assemblies of plutonium oxide (PuO_2)—uranium oxide (UO_2) sintered pellet, radiation effects on, 22:32985

assemblies of power reactor, description of perpendicular venturi-type nozzles for hydraulic restrained, 23:9161(P)
assemblies of pressure tube type boiling, description of vertical suspended collar braced, 23:23924(P)
assemblies of pressure-tube-type reactor, description of diaphragm-connected multiple longitudinally-arranged, 23:15631(P)
assemblies of pressurized water, criticality studies of shipping containers for irradiated, 24:7132
assemblies of pressurized-water reactor, analysis of forced convection burnout and hydrodynamic instability in, 23:9155 (EUR-4070)
assemblies of PRTR plutonium oxide (PuO_2)—uranium oxide (UO_2), radiation effects on reactivity of, 23:6020(R) (BNWL-887)
assemblies of PRTR, radiation effects of 7300 MWd on, 23:6020(R) (BNWL-887)
assemblies of rod type, description of web arranged spaced, 23:52501(P)
assemblies of rod-type water-cooled, program for parametric study of thermal—hydraulic performance of, 25:6465(R) (GEAP-10221)
assemblies of rod-type, description of cylindrical sleeve with triangular spacers for forming hexagonal, 22:42529(P)
assemblies of rod-type, description of dual spring-clip spacer for box-shaped, 22:48785(P)
assemblies of rod-type, description of end-to-end latch-connected, 22:37597(P)
assemblies of rod-type, description of opposing wave-formed spring strip spacers with grid bodies for, 22:37572(P)
assemblies of rod-type, description of skewed helical wart spacers for, 22:39923(P)
assemblies of rod-type, description of zig-zag wire grid spacers for, 22:42526(P)
assemblies of rod-type, effects of asymmetry on fluid flow and heat transfer in, 25:4206
assemblies of rod-type, FABCOST 9 computer program for calculation of fabrication costs of, 22:44924 (ORNL-4287)
assemblies of rod-type, heat transfer studies for in-line slug flow through unbaffled, 24:9591
assemblies of series connected coaxially stacked ceramic spaced cylindrical thermionic, 23:40466(P)
assemblies of series connected coaxially stacked ceramic spaced cylindrical thermionic, 23:40472(P)
assemblies of Shippingport Pressurized-Water Reactor Core 1, operations during December 1957 to February 1964, 23:13372 (WAPD-294)
assemblies of sleeve-enclosed upper fissile material pin and lower fertile material pin cluster-type, description of liquid metal-cooled fast reactor, 22:42244(P)
assemblies of small-diameter closely-packed eccentric double-pipe and grouped tubes, naphthalene sublimation method for heat transfer analysis in, (E/T), 23:19587
assemblies of spaced multiple coaxial arcuate plate type, description of radially supported, 23:37780(P)
assemblies of spaced multiple parallel bar shaped, description of top and bottom rod supported, 23:37775(P)
assemblies of spaced multiple parallel plate type, description of side wall supported, 23:37785(P)
assemblies of spaced multiple parallel rod type, description of bottom supported, 23:37776(P)
assemblies of spaced multiple parallel vertical rod type, description of horizontal tube supported, 23:37777(P)
assemblies of spaced multiple parallel, description of top and bottom supported, 23:37784(P)
assemblies of spaced multiple plate type, fabrication technique for, 23:37779(P)
assemblies of spiral spaced rod type fast breeder, pressure measurements for turbulent coolant flow in, 24:11195
assemblies of stacked rod-type, description of, 22:42444(P)
assemblies of stainless steel-clad plutonium oxide (PuO_2), effects of irradiation to high burnup on, (E), 22:37527(T) (ANL-Trans-609)
assemblies of string arranged, description of heat and stress dismantling procedure for, 24:11338(P)
assemblies of thermal reactor, description of parallel-spaced, 22:20880(P)
assemblies of thermal-insulated multiple vertical-sheathed rod-type, description of boiling reactor, 22:42258(P)
assemblies of thorium oxide (ThO_2)-breeding blanket and uranium oxide (UO_2)-seed, description of thermal reactors, 22:42269(P)
assemblies of tubular metal-clad ceramic, description of superheating reactor, 22:42259(P)
assemblies of tungsten-clad uranium oxide (UO_2)—tungsten, description of rocket reactor multi-plate, 22:35574(P)
assemblies of two end-to-end connected, description of collar-locked shaft and sleeve inter-engaging, 22:25180(P)
assemblies of type 304 stainless steel-clad enriched uranium oxide (UO_2) pellet-type, hydraulic and thermal testing of pressurized-water reactor, 22:30165(R) (WCAP-3706)
assemblies of type 304 stainless steel-clad enriched uranium oxide (UO_2) pellet-type, fabrication and thermal testing of pressurized-water reactor, 22:30164(R) (WCAP-3703)
assemblies of uranium oxide (UO_2), calculation of specific power in mockup, 23:34922 (RT/FI-(69)14)
assemblies of uranium oxide (UO_2), description of Savannah River Reactor Mockup, 22:25082 (DP-1122)
assemblies of uranium oxide (UO_2), performance analysis for optimum configuration for heavy water-moderated, 22:30264
assemblies of varying composition multiple elongated parallel, description of, 23:37454(P)
assemblies of vented vacuum sealed parallel rod type thermionic, 23:40474(P)
assemblies of VENUS-Vulcain, neutron physics measurements on subcritical, 22:30343(R) (EURAEC-1992)
assemblies of vertical multiple plate type, description of radially spaced, 23:37812(P)
assemblies of vertical multiple rod-type, description of wire-secured horizontal ring supports for, 23:9251(P)
assemblies of vertical plate-type, equipment and method for fabrication of, 23:35372(P)
assemblies of vertical rod-type, method for predicting burnout in, 25:8408 (CONF-660675-1)
assemblies of vertical-sheathed bottom-plugged reflected tubular, description of gas-cooled reactor, 22:42260(P)
assemblies of water/steam-cooled, bracing grid deflectors for entrained water removal in, 22:42514(P)
assemblies of water-cooled marine reactor, model studies for lateral vibration effects on, (E/T), 22:48718
assemblies of water-moderated and -reflected stainless steel-clad uranium oxide (UO_2), revised conversion-ratio calculations for, (T), 23:13583 (ANL-7203(Add.))
assemblies of water-moderated uranium oxide (UO_2) rod, analysis of neutron fluctuations in circular lattice, (E/T), 23:2107 (WAPD-TM-804)
assemblies of Zircalloy-2 clad uranium oxide (UO_2), thermal hydraulic testing of failures in, 23:40367(R) (GEAP-5771)
assemblies of Zircaloy-2 clad uranium oxide (UO_2) pellet-filled tubes, description of surface convex nodules for separation of, 22:25175(P)
assemblies of Zircaloy-2 clad uranium oxide (UO_2) sintered pellet and compacted powder, fabrication of, 22:27415(R) (GEAP-5585)
assemblies of Zircaloy-2-clad uranium oxide (UO_2), post-irradiation analysis of performance of SA-1, 22:32821
assemblies of Zircaloy-clad pellet-type, description of organic-cooled 3, 7, or 19 element, 23:19499(P)
assemblies of, analysis of departure from nucleate boiling in rod bundle, (E/T), 22:35716
assemblies of, analysis of natural mixing of coolant in, (T), 22:33165
assemblies of, configuration of liquid metal-cooled fast reactor multiple vertical and parallel elongated triple-region, 22:50775(P)
assemblies of, description of bearing-fitted cantilevered end-supported vertical-aligned, 22:37611(P)
assemblies of, description of bottom-supported control rod-guiding, 22:37570(P)
assemblies of, description of bottom-supported hook-and-groove fastened, 22:37587(P)
assemblies of, description of bridge joined alternately arranged plates with symmetric swellings for, 22:25169(P)
assemblies of, description of centrally-cooled cylindrically-enclosed multiple concentric circle-arranged, 22:42424(P)
assemblies of, description of circular-cluster symmetrically braced, 22:14361(P)
assemblies of, description of failure-disconnecting multi-section vertical-suspended, 22:39833(P)
assemblies of, description of fast reactor dual-region core multiple, 22:48701(P)
assemblies of, description of flexible wire spacers for bundle-type, 22:39939(P)
assemblies of, description of grid-supported parallel bundle-type, 22:39925(P)
assemblies of, description of longitudinal rippled-spring strips with lateral grid support for, 22:35698(P)
assemblies of, description of low-neutron-absorption filler-tubes for spaces in, 23:11364(P)
assemblies of, description of multi-rod can-enclosed end-to-end seal-connected, 22:37605(P)
assemblies of, description of multiple tube-enclosed bundle-type orificed, 22:39929(P)
assemblies of, description of multiple zigzag-shaped wire lattice square grid support for, 22:48780(P)
assemblies of, description of multiple, cantilever-connected centrally-tilted, 22:25187(P)
assemblies of, description of overhead flow-diverter for upward-flow, 23:17293(P)
assemblies of, description of radial coolant feeding for, 22:42431(P)
assemblies of, description of removable top- and bottom-access moderator tank for, 22:25197(P)
assemblies of, description of shielded rotating magazine loading machine for relocating, 23:45152(P)
assemblies of, description of thermal expanding support for multi-tube, 22:14360(P)
assemblies of, description of upper and lower multi-shoe torsion bar-actuated clamping system for core, 22:37607(P)
assemblies of, description of upper-end support and locking system for, 22:42479(P)
assemblies of, description of water-cooled enriched uranium flow tube with symmetric multi-rod, 22:25040(P)
assemblies of, design of, 24:353(P)
assemblies of, effects of bundle configuration on coolant cross-mixing in finned and unfinned, 23:45076
assemblies of, fully developed turbulent flow through, 23:35410
assemblies of, gas mixing in, 23:26450
assemblies of, heat transfer characteristics of, 22:25190(P)
assemblies of, heat transfer for air flowing through seven-rod, 23:24377
assemblies of, hydraulic and burnout analysis of, 22:49011 (AEEW-R-582)
assemblies of, integral transport methods for analysis of neutron flux distribution in, 22:30390
assemblies of, resonance equivalence procedure for dissimilar, (T), 23:43187 (AEEW-M-892)
assemblies of, thermal flux trap for plutonium recycle, 22:33179
assemblies of, two-phase adiabatic flow through, 23:31471 (EURAEC-1090)
assemblies spacer grid for, description of multi-section hexagonal-shaped strip-and-wire, 22:48764(P)
assemblies support guide for, description of cylinder-enclosed top and bottom multi-plate rhombic-shaped, 22:48756(P)
assembly configuration, description of four groups, parallel, side-by-side, 22:10099(P)
assembly for boiling reactors, description of horizontal channel, 22:10033(P)
assembly for heavy water-moderated organic-cooled reactor, description of finned multi-rod, 22:20866(P)
assembly grid structure for, with vanes for promoting coolant mixing, 22:47058(P)
assembly having plates fixed to hollow cylindrical center support, description of, 22:42458(P)
assembly of bundle arranged pin type, for liquid metal cooled fast breeder reactors, 23:45086(P)
assembly of clad, method for, 22:12503(P)
assembly of multiple hexagonal, description of liquid-cooled reactor honeycomb, 22:16240(P)
assembly of pins into grid-containing wrappers, method for, 25:28652(P)
assembly of water-moderated plutonium, computer program for analysis of burnup and power distribution in, (E/T), 22:22775
assembly of, analysis of turbulent velocity distribution of liquid sodium flow in infinite triangular, 22:24961 (GEAP-5411)
assembly of, description of lattice dividers with optimum support springs for, 22:20961(P)
assembly of, description of stackable clad, 22:42537(P)
assembly of, description two-zone fast sodium-cooled, 22:18539(P)
assembly of, design of equipment for production line, 21:39105(P)
assembly of, effect on heat transfer of twisted tape configuration of, 22:14202
assembly of, use of welded tubes for, 22:35987
assembly support system for, description of pressure vessel connected bent pipe, 22:14326(P)
axially supported sheath enclosed fuel-segment type, description of, 22:42461(P)
behavior of defective, effects of burnup, fuel form, and specific power on, 22:19669 (BNWL-624, pp 2.1-32)
behavior of irradiated urania, use of photographic recording for TREAT tests of, 21:30091(R) (ANL-7210)
behavior of sodium-bonded metallic fast, effects of accident conditions on, 22:22747
bending of plate-type, design of machine for, 24:9571(P)
bending of subassemblies in thermally distorted cores, BOW-V program for, (E/T), 24:33561
beryllium oxide for, preparation of fine-grained, 22:23882(P)
blockage of liquid metal cooled subassemblies, model of incipient boiling conditions for, (T), 24:47887
boiling crisis in rod bundles of, in longitudinal flow, effects of geometry on, 24:16780
bond failure of EBR-2 Mark-1 metallic driver pin, transient behavior of simulated, 23:4226
bond failure of EBR-2 Mark-1 pin, survival for simulated, 23:4225
bonding in, ultrasonic equipment for testing clad—fuel, 25:21466 (BNWL-CC-1793)
bonding of coated particles for gas cooled, 22:46911(R) (ORNL-4266)
bonding of nitride, to cladding, method for, 25:6888 (BMI-1886, Sect. A)
bonding of zirconium cladding on uranium—zirconium, by diffusion, 22:23746(P)
book: Ceramic Fuel Elements, 21:43651
book: Dispersion Fuel Elements, 22:15205
book: Dispersion-Fuel Nuclear Reactor Elements, 22:38618(T) (AEC-tr-6878)
book: Fuel Elements for Nuclear Reactors, 21:30307
book: Nuclear Reactor Dispersion Fuel Elements, 24:2070
book: Nuclear Reactor Fuel Elements (in German), 23:48396
boron distribution in, determination by gamma spectroscopy, 24:17392 (IN-1335, pp 25-82)
bowing analysis of PM reactors, computer programs for, 22:20895 (HIT-3583-88(Add.))
bowing in lattice cell arrays, neutron flux and reaction rate variations from, (T), 25:10319
bowing in multispan rod type, effects of interaction between deflections and coolant flow on inelastic, (T), 24:43865
bowing in multispan rod type, inelastic analysis of axial thrust, (T), 23:24043
bowing in reactor cores, BOW-V code for equilibrium configuration calculations of thermal, 24:36000 (ANL/EBR-14)
bowing in rod-type, computer program for inelastic analysis of axial thrust, (T), 22:33173
bowing of 1000 MW(e) fast breeder, effects on reactivity of temperature-induced, (T), 23:9229(T) (EURFNR-540)
bowing of axially unrestrained cylindrical, analysis of thermoelastic, (T), 22:48776
bowing of boiling water, use of ROBOT computer program for determining effects of, 23:40366 (CONF-690401-, pp 611-30)
bowing of cluster arranged rod type, in forced convection annular flow channels, (T), 25:18243 (TRG-Report-1915)
bowing of multispan rod-type viscoelastic, effects of axial thrusts and temperature distribution on, (T), 23:2135 (WAPD-TM-770)
bowing of nonhomogeneous plate-type, from nonuniform temperature distributions, (T), 22:30368
bowing of pin type, effects of coolant turbulent mixing on thermal, (T), 25:18125
bowing of rod type, effects on neutron flux distributions of, (T), 25:18233
bowing of rod type, ROBOT code for predictions of, 24:2000 (WAPD-TM-847)

bowing of rod, development of displacement gages for measuring axial, 21:8640(R) (IDO-17211)
bowing of two or three equal-length span-supported rod-type, effects of forced convection cooling on thermal, 22:44925 (TRG-Report-1662)
bowing of water-cooled reactor pin type, effects of coolant channel thermal hydraulics on, (T), 23:28638
bowing of, elastic analysis of thermal gradient, 22:22866 (WAPD-TM-726)
bowing of, elastic analysis of thermal-gradient, 22:6143
bowing of, thermal stability analysis of, 22:16306 (AERE-R-5601)
bowing of, thermal stress analysis of, (T), 23:34946 (TRG-Report-1836)
boxes for, deformation in gas-cooled fast reactors of, (T), 25:51102
brazing in stainless steel, effects of temperature and soaking time on diffusion, 21:14804
brazing of, 22:16356 (KR-116)
brazing of urania—stainless steel cermet to stainless steel cladding, method for, 21:39571(P)
brazing of Zircaloy clad in, 21:9076 (AECL-2813)
breeding ratio as a function of burnup in, 21:27751
bubble growth in heated sodium bonded carbide, effects of binding perturbations on, 25:47162
bulk volume of pellets of, design of pycnometer for measuring, 21:19832
bundle configuration for multi-rod, use of variable-enrichment material for symmetric, 22:37593(P)
bundles of simulated ORGEL, fluid mixing between subchannels in, 21:32321
bundles of, determination of coolant gas mixing and pressure drop in, 23:6038
burnable poison disks in, use of zirconium, stainless steel, carbon, alumina, and silica for, 21:38809(P)
burnable-poison content in ETR, use of cobalt-60 as radioactive tag for assay of boron, 23:24426 (IN-1218, pp 181-316)
burning of graphite-matrix, in fluidized bed of aluminum oxide, thorium and uranium extraction from ash from, 21:14309
burnout calculations for, comparisons of Becker and linear forms for, 21:30189
burnout detection of, testing of meter for, 22:40293 (RISO-M-760)
burnout detector for, with localization for dc-heated individual pipes and bundles, 23:7888 (EUR-4062)
burnout during stationary and transient operation of assemblies of 4 and 9 rod, measurement of, 24:13524(T) (ORNL-tr-2244)
burnout heat flux for rod cluster, (E/T), 25:3880
burnout heat flux in heavy water moderated cluster type, calculation of, 24:46056
burnout heat flux in, measurements of, 21:40541(R) (BNWL-492)
burnout heat flux of 19-rod uranium dioxide, with forced flow of subcooled and boiling water, 21:1504 (DP-1024)
burnout in annuli and bundles of, comparison of correlations for, 22:25122 (AEEW-R-558)
burnout in forced convection boiling heat transfer, bibliography on, 25:37000 (AAEC/LIB/Bib-286)
burnout in pool boiling, nonhydrodynamic parameters in, 21:26054
burnout in Swedish Reactors (R-4), use of HAMBO computer program and Becker burnout correlation for prediction of, 23:40368 (RISO-M-900)
burnout in, preliminary investigation of, 21:21632(R) (EURAEC-1618)
burnout limits of, aluminum—plutonium alloy plate, safety aspects of, 24:43807 (BNWL-1409)
burnout limits of, effects of high pressure water coolant flow on, 22:22812 (EUR-3881)
burnout measurements for boiling-water flow in 6-rod, 7-rod, and 36-rod bundles, 23:4201 (CONF-670654-1)
burnout of boiling reactor, description of four detector systems for, 23:9169
burnout of water cooled, measurement of boiling, 24:11197
burnout of water-cooled bundles of, under transient operating conditions, (E/T), 25:26419(R) (GEAP-10221-5)
burnout of, computer program analysis of, 21:40522 (AEEW-R-524)
burnout of, effects of hot spot occurrences on probability of, (T), 25:18241
burnout power in Freon-12 cooled 7 rod cluster assemblies of, effects of rod pitch on, 24:24832 (AEEW-R-655)
burnout power in nine-rod bundles of, with forced convection high-pressure water flow, (E), 25:323 (EUR-4514)
burnout simulation in, critical heat flux measurements on, 21:17443 (EURAEC-1610)
burnout simulation of water-cooled reactor, description of, 22:42378
burnup analyses for fast flux irradiated, 21:46854(R) (GEAP-5098)
burnup analyses of AARR cermet, 21:40669 (ANL-7290, pp 27-119)
burnup analysis at 1250 to 1400°C of HTGR, 22:22688 (GA-7549)
burnup analysis by gamma-scan experiments, 24:41210 (NEDO-13074)
burnup analysis of fast, 21:42725(R) (ANL-7357)
burnup analysis of Heavy Water Organic Cooled Reactor, integral transport method for, 21:38478
burnup analysis of irradiated, 21:46854(R) (GEAP-5098)
burnup analysis of irradiated plutonium-containing, destructive and nondestructive, 22:20779 (BNWL-624, pp 3.1-159)
burnup analysis of NaK-cooled type-316 and type-347 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:25083(R) (GEAP-5541)
burnup analysis of plutonia—urania, in Saxton Power Reactor, 21:46868(R) (WCAP-3385-12)
burnup analysis of, improvement of accuracy of, 22:16316(R) (GEAP-5505)
burnup analysis of, thermomechanical method for, (T), 22:16327(T) (ANL-Trans-558)
burnup and disintegration of SNAP-10A, effect of re-entry on, 21:1199 (NAA-SR-Memo-11845)
burnup and power distribution in, SUPERNOVA code for, 21:35542 (AEEW-M-750)
burnup and production of plutonium in, nondestructive method for estimating, 22:14525
burnup and radiation effects on structure of Big Rock Point Power Reactor, 21:40554(R) (GEAP-5507)
burnup at high-power density of PRTR Zircaloy-clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type, analysis of performance during, 23:13502 (BNWL-SA-1979)
burnup behavior of ceramic, model for prediction of, 24:10212
burnup calculation from statistical space distribution of pebble bed, KUGEL program for, 22:37565
burnup calculations for EVESR, 21:27679(R) (GEAP-5463)
burnup calculations for LMFBR, effects of large uncertainties in plutonium-239 cross sections on, 23:28441 (BAW-3867-7)
burnup calculations for, application of perturbation theory to, 22:10080 (NAA-SR-Memo-12491)
burnup calculations for, role in nuclear materials safeguards system, 25:54935 (BNWL-1599)
burnup calculations in advanced gas-cooled graphite-moderated, 21:35541 (AEEW-M-740)
burnup calculations in, SUPERNOVA code for, 21:35542 (AEEW-M-750)
burnup calculations on ORGEL-type, 21:21728
burnup calculations using four meter bent crystal spectrometer for measuring gamma from cesium-137 decay, 24:36170 (NP-18291)
burnup capability of tungsten-clad tungsten—uranium dioxide, 24:10194 (GEMP-710)
burnup characteristics for power reactor, calculational methods for optimum, (E/T), 22:22759
burnup characteristics of Elk River Power Reactor, 21:46861(R) (NUS-401)
burnup characteristics of Saxton Power Reactor 9 x 9 core, 21:46867 (WCAP-3269-59)
burnup characteristics of, analysis of power distribution for various, 21:35628
burnup control and calculations for, computer program for, 23:40442 (CONF-690401-, pp 482-91)
burnup data from irradiated, gamma scanning facility for, 21:30103(R) (BNWL-400)
burnup determination by spectroscopy of fission product γ activities, 23:47356
burnup determination for, by gamma spectrometry, 21:17562 (AE-267)
burnup determination in coated uranium-containing, γ spectroscopy nondestructive method for, 22:53460 (JUL-529-RX)
burnup determination in, for pebble bed reactors, nondestructive method for, 24:33639
burnup determination in, lithium-drifted germanium gamma spectrometer for, 23:43589
burnup determination of Ames Research, 21:42813 (IS-1600, Paper 7)
burnup determination of, by comparison of equivalent uranium content, 22:37564
burnup determinations for plutonium, 21:44935 (BNWL-SA-1204)
burnup during atmospheric reentry of SNAP-8, effect of aerodynamic heating on, 21:30616 (NAA-SR-12355)
burnup effects on microstructure of Zircaloy 2-clad uranium oxide (UO_2) pellet and VIPAC, analysis of, 23:4472
burnup effects on Zircaloy-2 clad 87 percent density uranium oxide (UO_2), photographic analysis of, 22:16280 (GEAP-5100-H)
burnup efficiency of pressurized-water reactor enriched uranium oxide (UO_2) pellet-type, computer analysis of, 22:30164(R) (WCAP-3703)
burnup experiments for Halden Boiling Reactor second fuel charge, results from, 23:17165 (HPR-86)
burnup in aluminum clad aluminum—uranium alloy, HIBURN computer program for, 24:24873 (AAEC/TM-508)
burnup in CVTR, 21:31930(R) (CVNA-276)
burnup in Dresden Power Reactor, calculations using TRILUX for, 21:38540
burnup in enriched plutonium—uranium, determination of, 22:7787 (AERE-R-5309)
burnup in fast gas-cooled, 21:38463(R) (ORNL-4133)
burnup in fast reactors, determination of, 22:39976 (ANL-7450, pp 108-11)
burnup in fast reactors, methods for determining, 22:50902 (ANL-7425, pp 193-7)
burnup in Fort St. Vrain, 21:38447(R) (GA-6830)
burnup in Halden, gamma scanning technique for, 21:31943(R) (NP-16803)
burnup in heavy water moderated reactors, comparisons of computer programs for point and cell, 23:34943 (RISO-M-897)
burnup in heavy water-moderated, method for calculating physics parameters as a function of, 21:25636 (UJV-1704)
burnup in hollow aluminum clad aluminum—uranium alloy, GYMEA and WDSN computer programs for, 24:24874 (AAEC/TM-509)
burnup in operating, method and apparatus for determination of, 24:4178(P)
burnup in plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 23:33079(R) (BNWL-941)
burnup in power reactor core regions, optimization of, 24:43781
burnup in rod-type, scintillation counters, γ spectrometers, semiconductor radiation detectors for measurement of, (E), 25:18248
burnup in stainless steel clad mixed oxide fast, effects of cladding temperature on, 24:24841
burnup in thermal, computer program for analysis of uranium, 22:30346 (RISO-M-684)
burnup in Yugoslav RA reactor, total before replacement, 21:19490
burnup in zero-power experiment, gamma-spectrometric determination of, 22:10181
burnup in, FLEF transport computer code for, 22:16317 (HPR-84)
burnup in, measurement techniques of, 21:27823 (AE-272)
burnup in, modifications in BUFIT computer program for, 24:7353(R) (BNWL-1224)
burnup in, modifications in BUFIT computer program for, 24:7168(R) (BNWL-1240)
burnup limits for magnox reactors, computer program analysis of, (E/T), 22:22773
burnup limits for plutonium carbide—uranium carbide, procedures for determining, 21:1961 (UNC-5136)
burnup measurement for EBR-II, rare earth determination method for, 21:4433 (ANL-7125, pp 241-3)
burnup measurement on spherical, γ spectrometric, 21:2891 (EUR-3071.d)
burnup measurements in graphite- and heavy water-moderated reactors, analysis of, (E/T), 22:22772
burnup measurements in NPD, 21:31896 (AECL-2865)
burnup measurements in PRTR plutonium, 21:46952
burnup measurements on CVTR, 21:40547(R) (CVNA-279)
burnup measurements on, by x-ray spectroscopy, 22:39976 (ANL-7450, pp 108-11)
burnup of 1000 MW(e) liquid metal-cooled fast breeding, economic analysis of, 22:10005 (KFK-568)
burnup of 1000 MW(e) reference design high temperature gas cooled, calculation of cycle management procedures for optimum, 24:38539 (DP-Report-135(Pt.4))
burnup of 1000 MW(e) reference design high temperature gas cooled, calculation of cycle management procedures for optimum, 24:38491 (DP-Report-135(Pt.3))
burnup of A-1, calorimetric method for continuous measurement of, 23:40293
burnup of advanced gas-cooled, calculation of optimum equilibrium cycle managment system for, (E/T), 22:22779
burnup of advanced gas-cooled, calculation of optimum management for, (E/T), 22:22778
burnup of aluminum alloy—uranium alloy plate type, 23:33118 (IN-1228, pp 20-73)
burnup of beryllium oxide (BeO) matrix uranium oxide (UO_2) FM-1 capsule, measurement of ETR cycles 88 and 89, 23:19464(R) (GA-8200)
burnup of Big Rock Point Power Reactor, 21:40554(R) (GEAP-5507)
burnup of boiling reactors, calculation of optimum management for, (E/T), 22:22777
burnup of boiling water reactor, cycle management procedures for optimum, 25:15212
burnup of BR-2 plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis during 1967 of, 23:2069 (NP-17579, pp I.1-60)
burnup of BR-2 reactor plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:9200 (TID-24855)
burnup of BWR- and PWR-types, determination by gamma scanning, 24:16814
burnup of chromium carbide- and iron-modified plutonium carbide—uranium carbide, (E), 22:8807(R) (WCAP-3791-10)
burnup of conceptual 250 MW(e) fast breeder, calculation of management procedures for optimum, 24:22411
burnup of DIDO Reactor DMTR boron-10 loaded, effects on reactivity control of, 24:5550 (TRG-Report-1896)
burnup of Dresden Power Reactor Unit 1 Assembly SA-1 Zircaloy 2-clad uranium oxide (UO_2), analysis of crud and zirconium oxide (ZrO_2) deposits from, 23:4145(R) (GEAP-5667)
burnup of EBR-2, description of methods used for detection of, 24:7117
burnup of EBWR uranium oxide (UO_2), plutonium oxide (PuO_2)—uranium oxide (UO_2), aluminum—plutonium rod type, post-irradiation data for, 23:26046 (BNWL-978)
burnup of EL-4, computer program for optimum management system for, (T), 22:22780
burnup of enriched uranium rod type, γ spectroscopy method for measurement of axial, (E), 24:38549
burnup of fast power, use of isotopic analysis of irradiated samples of fissile and fertile materials for calculation of, (T), 23:47321
burnup of fast reactor Inconel 625-clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin-type, effects of stoichiometry on, 23:4235
burnup of fast reactor pin-type, analysis of optimum operational, 23:4233
burnup of fast steam cooled, methods for analysis of, 24:46053
burnup of fast, 3DB computer program for calculation of, 24:22387 (BNWL-1264)
burnup of FFTF stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 23:4325
burnup of FR-2 reactor plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2), 23:9200 (TID-24855)
burnup of FTR driver, RIBD computer program calculations for fission products and decay heat in optimum, 23:21511 (BNWL-961)
burnup of gas cooled thorium carbide (ThC_2)—uranium carbide (UC_2) coated particle, 25:3796 (DP-Report-579)
burnup of GETR Zircaloy 2-clad uranium oxide (UO_2), analysis of, 23:6021 (GEAP-5642)
burnup of HBWR plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2), 24:1953(R) (HPR-112)

burnup of heavy water cooled and moderated, calculation of cycle management procedures for optimum, 25:3866 (CEA-N-1379)
burnup of heavy water moderated boiling power, ROTOR computer program for optimum, 24:20570
burnup of heavy water moderated gas cooled power, PBS-1 computer program for, 24:46052
burnup of heavy water moderated pressure tube type, digital computer program for, 25:12797 (IEA-186)
burnup of heavy water moderated, (E/T), 25:41283
burnup of heavy water-moderated uranium oxide (UO_2), analysis of, 22:25082 (DP-1122)
burnup of HFIR prototype, 21:1421(R) (ORNL-3965)
burnup of high temperature gas cooled low enrichment uranium, calculation of cycle management procedures for optimum, 25:8076 (GA-9715)
burnup of high temperature gas cooled, effects of heterogeneity on, 25:3868 (DP-Report-477)
burnup of high temperature gas cooled, nondestructive method for estimating, (E/T), 25:3871 (DP-Report-538)
burnup of Indian Point Power Reactor Unit 1 Core A thorium oxide (ThO_2)—uranium oxide (UO_2), analysis of, 23:4161
burnup of irradiated, γ spectrometric measurement of, 25:39427
burnup of liquid metal cooled fast breeder, analysis of cycle management procedures for optimum, 24:46062 (BNWL-965)
burnup of molybdenum—uranium, effects on swelling of, 23:40502
burnup of MTR-type, determination by 145-keV gamma-ray absorption, 25:21322
burnup of Novo Voronezh Power Reactor Unit 2, effects on critical rod bank height of, 23:31131
burnup of NRX, 21:31893 (AECL-2674)
burnup of Peach Bottom Power Reactor Unit 1, analysis of, 23:4264(R) (GA-8816)
burnup of pebble bed type, calculation of cycle management procedures for optimum, (T), 24:38544 (JUL-645-RG)
burnup of pin type, γ-scanning device for measurement of axial and radial, 25:28766
burnup of plutonium dioxide—uranium dioxide, clad with type 316 stainless steel, 22:17189
burnup of plutonium, analyses using DTF—BURN code, 21:27831 (LA-3671)
burnup of power reactor, use of γ spectrometers for measurement of, 24:4056 (CEA-R-3863)
burnup of power, cyclic reactivity carryover effects on cycle management for optimum, (T), 24:33193
burnup of pressurized water mixed oxide, calculations of cycle management procedures for optimum, 24:33317
burnup of pressurized-water reactor type 304 stainless steel-clad uranium oxide (UO_2) pellet-type, computer analysis for optimum, 22:30168(R) (WCAP-3710)
burnup of pressurized-water reactor type 304 stainless steel-clad enriched uranium oxide (UO_2), computer analysis of, 22:30165(R) (WCAP-3706)
burnup of PRTR plutonium oxide (PuO_2)—uranium oxide (UO_2) high power density, analysis of, 23:4401
burnup of Rapsodie Type 316 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 23:4326
burnup of Rapsodie, during August 1967 to September 1968, 23:21512 (CEA-CONF-1247)
burnup of research reactor, calculation of cycle management procedures for optimum, 25:41555
burnup of rod, performance of lithium-drifted germanium detector for measurement of average, 25:57201
burnup of Saxton Power Reactor partial plutonium, 23:37427
burnup of Shippingport Power Reactor second-core mockup, 21:38542
burnup of spherical, high-resolution semiconductor gamma spectrometer for measuring, 21:31794
burnup of stainless steel clad mixed oxide, effects of power distribution and isotopic concentrations on, (E/T), 24:46122(R) (BNWL-1381-2)
burnup of superheat reactor, description of water-cooled core shelves for efficient, 22:10027(P)
burnup of thermal reactor, analysis of optimum calculations for, (T), 22:35533
burnup of thermal, comparison of cycle management procedures for crossed and parallel arranged cores, (T), 24:38541 (EIR-182)
burnup of Tokai—Mura Power, review of, 23:26012
burnup of tungsten clad uranium oxide (UO_2) plate type, measurement of cesium isotopes—137 and tungsten isotopes—184 for, determination of, 24:18786 (CONF-690910-, pp 435-45)
burnup of tungsten—uranium dioxide, determination using cesium-137 or tungsten-184 as monitor, 24:12486 (N-70-11396)
burnup of Type 304 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) sphere-pac Sol-Gel, analysis of, 24:33556
burnup of Type 304 stainless steel- and Zircaloy 4-clad uranium oxide (UO_2) ETR-type, analysis of failures during, 22:53422 (WCAP-3269-61-A)
burnup of Type 347 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2)—zirconium oxide (ZrO_2) pellet-shaped, analysis of 1.2 x 10^{20} fission/cm^3, 23:2031(R) (NUMEC-3505-33)
burnup of uranium dioxide pellets and powders, under melting conditions, 22:17186 (GEAP-5100-M)
burnup of uranium oxide (UO_2), effects of fission product migration on, 22:7930
burnup of uranium, methods for measuring, 22:18604
burnup of uranium—plutonium, 22:9988(R) (ANL-7391)
burnup of uranium-fueled water-moderated thermal reactor, computer program for measurement of, 22:25134 (PRNC-117)
burnup of water cooled rod type, errors in γ spectroscopy methods for, 24:36036
burnup of Yankee Core I, analysis of, 21:34116 (WCAP-6077)
burnup of Yankee Core I, isotopic and radiochemical analyses of, (E), 21:1181(R) (WCAP-6081)
burnup of Yankee Power Reactor Core 1 to Core 4, comparison of calculated and measured, 23:37441
burnup of Yankee Power Reactor, (E/T), 23:37442
burnup of Yankee Power, comparison of calculated and measured, 23:43006 (BNWL-1122)
burnup of Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) cluster arranged rod type, (E), 24:46123 (BNWL-1488)
burnup of Zircaloy 2-clad thorium—uranium—zirconium, analysis of, 22:53456 (BNWL-861)
burnup of Zircaloy clad uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, (E), 24:43857(R) (BNWL-1442)
burnup of Zircaloy-2 clad uranium oxide (UO_2) sintered pellet and compacted powder, schedule for testing for, 22:27415(R) (GEAP-5585)
burnup of Zircaloy-clad uranium oxide (UO_2) pressurized and boiling water reactor, analysis of, 22:32894
burnup of, algorithm of cycle management procedures for optimum, 24:33353
burnup of, analysis for total rare earths for determining, 21:25935(R) (ANL-7225)
burnup of, analysis of continuous on-load cycle management procedures for optimum, 24:38548
burnup of, analysis of cycle management procedures for optimum, 24:38389 (CONF-700317, Paper 19)
burnup of, bibliography on, 22:33085 (AAEC/TM-449)
burnup of, calculation of cycle management procedures for optimum, 25:3803
burnup of, calculation of cycle management procedures for optimum, 25:3869 (DP-Report-478)
burnup of, calculation of ratios of effective cross sections from least squares analysis of, 22:25142
burnup of, calculation techniques for cycle management procedures for optimum, 24:33359
burnup of, calculations for optimum control of, (T), 25:6172
burnup of, computer calculations of fissile nuclei depletion on power and temperature distribution for long term, (E), 25:39328 (CEA-N-1416)
burnup of, determination of neodymium isotopes as measure of, 21:32090 (TRG-Report-1496)
burnup of, determination of neodymium-148 for calculation of, 23:9342
burnup of, development of methods for accurate determination of, 23:9 (IN-1203, pp 67-8)
burnup of, effects on swelling, 21:34076(R) (ANL-7342)
burnup of, FLARE code analysis of, 21:23594 (CEND-290)
burnup of, FLARE code analysis of, 21:23593 (CEND-289)
burnup of, FLARE code analysis of, 21:13959 (CEND-285)
burnup of, FLARE code analysis of, 21:13961 (CEND-287)
burnup of, FLARE code analysis of, 21:13956 (CEND-272)
burnup of, FLARE code analysis of, 21:13957 (CEND-281)
burnup of, FLARE code analysis of, 21:13958 (CEND-282)
burnup of, FLARE code analysis of, 21:13960 (CEND-286)
burnup of, FLARE code analysis of, 22:16116 (CEND-291)
burnup of, FLARE code analysis of, 22:16119 (CEND-299)
burnup of, FLARE code analysis of, 22:16121 (CEND-317)
burnup of, FLARE code analysis of, 22:16122 (CEND-318)
burnup of, FLARE-code analysis of, 21:13954 (CEND-268)
burnup of, FLARE-code analysis of, 21:13955 (CEND-268(Suppl.1))
burnup of, HEBUS computer program for, 23:28416 (RISO-M-864)
burnup of, isotope dilution mass spectrometric techniques for determination of, 22:47074(R) (IN-1215)
burnup of, lithium-drifted germanium gamma spectrometer for determining, 23:17785 (BLG-425, Paper 5)
burnup of, measurement of fast fission yields for determination of, 22:42588(R) (IN-1207)
burnup of, method for calculating, 21:10204 (ORNL-P-2555)
burnup of, non-destructive determination of, 22:19080
burnup of, radiochemical methods for determining, 21:25800
burnup of, radiochemical methods for determining, 23:37910
burnup of, use of praseodymium-141 content for monitoring, 21:25935(R) (ANL-7225)
burnup of, use of semiconductor detectors for analysis of, 22:35702
burnup parameter determinations in irradiated, use of thermal column measurements and pile oscillation techniques for, (E/T), 22:48749 (AE-326)
burnup performance in Canadian heavy water-moderated reactors Zircaloy-2 clad uranium oxide (UO_2), analysis of, 22:30263
burnup performance of stainless steel-clad tungsten carbide (W_2C)-coated plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type, effects of fabrication and stoichiometry on, 22:39783(R) (NUMEC-3432-32)
burnup performance of Type 316 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of 125,000 MWd/Te, 22:50732(R) (GEAP-5631)
burnup physics program at Halden, 21:31943(R) (NP-16803)
burnup predictions for Shippingport Seed 2, 21:40580(R) (WAPD-MRP-121)
burnup properties of SAP-clad uranium carbide (UC), CRAYON computer program for, 22:39899 (EUR-4031)
burnup rate of, use of computer codes for prediction of, 22:22854 (ANL-RE-391)
burnup ratio measurements on mixed-oxide, 22:30343(R) (EURAEC-1992)
burnup simulation of thermal, description of computer program for, 22:50764
burnup statistics for Garigliano, 21:38470(R) (TID-23922)
burnup testing of vibrationally compacted urania—plutonia, for EBWR, 21:38509
burnup testing of Zircaloy-2-clad thorium—uranium—zirconium alloy, 22:2662 (BNWL-479)
burnup to 10,000 Mwd/t of natural uranium and enriched uranium, comparison of, 22:1830
burnup variations in VVR-S, analysis of, 21:12244
calibration of instrumented, for high power density development project, 21:40696 (GEAP-3896)
calibration of instrumented, for VBWR tests, 21:7874(R) (GEAP-3898)
can diameter gage for, development of, 24:9126(R) (HPR-115)
can for assemblies of pin-type, description of, 22:18636(P)
can for cylindrical, with bowing and vibration restraining lugs, 23:37790(P)
can rupture detection, computer-based instrumentation for, 23:41092 (CEA-R-3825)
canning of, pressure method for, 22:12515(P)
cans for gas-cooled, development of high performance heat transfer surfaces of, (E), 22:7852
cans for gas-cooled, heat transfer and friction coefficients at 1000°C for walls of, (E/T), 22:7856
cans for gas-cooled, heat transfer and pressure drop along herringbone finned, (E), 22:7853
cans for gas-cooled, heat transfer and pressure drop along herringbone finned, (T), 22:7851
cans for gas-cooled, performance of roughened heat transfer surfaces of, (E/T), 22:7854
cans for helium-cooled, convective heat transfer correlations for, (E/T), 22:7855
cans for, description of end closures for cylindrical, 22:18620(P)
cans for, design of internally pressurized, 22:10470(P)
cans for, design of internally pressurized, 22:10470(P)
cans for, design of machine for grinding, 22:14662(P)
cans for, design of thermocouple terminal connector for measuring temperature of, 21:43119(P)
cans for, dissolution of, by cathodic polarization, 21:5865
cans for, effects of fabrication on grain size of Magnox AL80, 21:4921
cans for, explosive method for welding of SAP and Zircaloy-2, 23:18197
cans for, fabrication of magnesium—zirconium alloy, 21:38797(P)
cans for, heat transfer in, 22:2294 (KFK-604)
carbon analysis for uranium oxide (UO_2) plate-type, 22:12006(R) (ANL-7399)
carbon determination in silicon carbide—uranium dicarbide, using electron-probe microanalyzer, fluorescence correction in, 22:2458
carbon removal from, by helium and steam, 24:16217 (ORNL-4400, pp 118-26)
casings for, design of parallelepipedic, 21:12269(P)
casting of graphite-core uranium or uranium alloy, equipment and method for, 25:40009(P)
casting of, equipment and method for, 24:27290(P)
casting uranium carbide, method for continuous, 22:28903(P)
caulking device for plate-type, description of cam-driven multi-section rectangular plate, 22:35696(P)
cavity formation in uranium oxide (UO_2) rod-type, effects of radial temperature gradient on axial, (E/T), 22:44856
centering in cylindrical cooling channels of herringbone finned, lug and groove device for, 23:37772(P)
centering in cylindrical cooling channels of herringbone finned, longitudinal fins and grooves for, 23:37771(P)
cesium condensation in coated-particle, effects of fission product, (T), 22:37617
channel closure plugs for, design of latch for, 23:40930(P)
channel diameter for, design of measuring equipment for, 21:39107(P)
channels for heavy water-cooled reactor, description of shielded tubular top-loading, 22:37608(P)
channels for, design of equipment for inspection of, 21:22082(P)
characteristics in JPDR, code analysis of thermal and hydraulic, 21:40558 (JAERI-1136)
characteristics of infinite lattices of heterogenically distributed, 21:2880
characteristics of melted ETR, hydraulic and thermal, 23:33084 (IN-1228, pp 74-110)
characteristics of zoned uranium dioxide—plutonium dioxide recycle, 22:6016
chemical analysis of coated particle, 21:38463(R) (ORNL-4133)
chopper for, design and fabrication of, 24:48208 (NP-18451)
chopper for, design and fabrication of, 25:21234(T) (ORNL-tr-2414)
circularity of cans for, design of capacitance gage for measuring, 21:32303(P)
circulation of pebble bed reactor, effects of size and weight on, 23:33056
circulation of spherical pebble bed, growth of ordered zones by, 23:37505 (EUR-4190, pp 517-34)
clad bonding of, metal spraying method for, 25:2638 (CEA-CONF-1625)
clad damage tests for Fermi Fast Breeder, 21:30096(R) (APDA-CFE-5)
clad materials compatibility with uranium carbide, evaluation of, 21:38432(R) (AI-CE-4)

clad materials for sodium and steam cooled, stress analyses of austenitic steel and nickel, 22:53273(T) (EURFNR-472)
clad materials for sodium and steam cooled, stress analyses of austenitic steel and nickel alloys for, 22: 32774 (KFK-700(Pt. VIII))
clad rods of annular-shaped hollow ring-separated multiple hollow sintered pellets, description of, 23: 9253(P)
cladding alloys for Fast Ceramic Reactor mixed oxide, performance characteristics of, 23:37506(R) (GEAP-5677)
cladding alloys for fast reactor mixed oxide, performance characteristics of, 23:43115(R) (GEAP-5753)
cladding alloys for fast reactor mixed oxide, performance characteristics of, 23:43116(R) (GEAP-10028)
cladding alloys for fast reactor mixed oxide, performance characteristics of, 23:37507(R) (GEAP-5700)
cladding alloys for gas cooled fast breeder, development of vanadium base, 23:43114(R) (GA-9359)
cladding alloys for mixed oxide fast, performance of, 24: 16190(R) (GEAP-10028-32)
cladding alloys for mixed oxide fast, performance of, 24: 4058(R) (GEAP-10028-31)
cladding alloys for use in sodium-cooled reactors, mechanical properties of, 21:40564(R) (NAA-SR-12395)
cladding alloys for, fast neutron effects on, 21:12231(R) (ANL-7267)
cladding alloys for, mechanical properties of, 22:9988(R) (ANL-7391)
cladding and pressure tubes for, problems in selection of materials for, 25:27204 (INIS-mf-3)
cladding burst test data, review on, 22:43564 (BNL-50115)
cladding by extrusion, using metal tubes, 22:28911(P)
cladding by joining sheath and end closing plugs of, magnetic pulse method for, 22:28913(P)
cladding chemical reactions with water coolant, CHEMLOC-2 computer program for, 23:4269 (ANL-7361)
cladding closure equipment and method for, 22: 45762(P)
cladding closure for, design and fabrication of, 23: 46019(P)
cladding collapse on externally pressurized, prediction of creep-type, 23:30035
cladding corrosion on rod-type, after operation in Dresden reactor to 20,000 MWd/t, 23:48573(R) (GEAP-5702)
cladding cracking in, effects of corrosion-generated hydrogen on Type-304 stainless steel, 21:43553 (GEAP-5415)
cladding defect detection in Elk River, use of dry sipping method for, 23:11121 (NUS-394)
cladding defect in EBR-2 driver, failure detection system response for weld, 23:37544
cladding defects detection in, ultrasonic-probing method for Zircaloy and stainless steel, 22:14169
cladding defects for plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of annealing and cold-working on Type 316 stainless steel, 22:50732(R) (GEAP-5631)
cladding defects in, radiochemical analysis of, 21:28042
cladding defects in, review of methods for detection of, 21:35779
cladding deformation and elongation in, effects of thermal expansion and fuel stack swelling on, (E), 23: 52498
cladding deformation on waterlogged, GLUB-1 computer code for analysis of, 21:14115 (WAPD-TM-569)
cladding deformation on waterlogged, GLUB-1 program for analysis of, 21:14115 (WAPD-TM-569)
cladding design for, using beryllium—copper alloy, 23: 33967(P)
cladding design for, using chromium—iron—zirconium alloy, 23:33966(P)
cladding design with longitudinal hole for housing thermocouples, 23:40498(P)
cladding development and testing for, review on, 23: 48314 (BNL-50190)
cladding effects on advanced spherical beryllia, 21: 38448 (GA-6836)
cladding effects on the uranium-238 resonance integral in lattices, (T), 22:42401
cladding elongation on HBWR, equipment for measuring, 21:21636 (HPR-70)
cladding embrittlement by oxygen, effects of coolant loss conditions on Zircaloy, 23:37585
cladding end faces of dispersion-type, method using ceramic material, 23:36193(P)
cladding end-cap for, design of force-locking, 21:5720(P)
cladding end-closure for, fabrication method, 21:10223
cladding fabrication for carbon dioxide-cooled reactor, description of coated iron- or nickel-base alloy, 22: 42281(P)
cladding fabrication for, pressure welding technique for sintered aluminum powder sheath and end-plug, 22: 42473(P)
cladding failure detection by electrical collection of fission gases, surface-barrier detector for, 24:39206
cladding failure detection by measurement of γ activity of cooling water, 21:23758
cladding failure detection in EBR-II, use of xenon isotopes as tracer for, 23:26209 (ANL-7550, pp 35-73)
cladding failure detection in gas cooled, design of γ radiation monitoring system for, 24:36039
cladding failure detection system for, coolant sampling device in, 23:28642(P)
cladding failure detection system for, use of helium scrubbing gas for, 22:18638(P)
cladding failure detection system with means for external pressure indication, 22:16339(P)
cladding failure effects on behavior in liquid sodium, 23: 24872(R) (WARD-3791-32)
cladding failure following coolant loss accidents, effects on emergency core cooling system performance of, (E/T), 24:50128 (NEDO-10208)
cladding failure for rod type, effects of coolant loss conditions on, (T), 24:33371
cladding failure in boiling water, effects of oxygen dissolution in Zircaloy, 23:45095(R) (BMI-1867)
cladding failure in CANDU-type, γ spectrometer coolant monitor for detecting, 22:9984 (AECL-2786)
cladding failure in EVESR, analysis of, 21:38550
cladding failure in fast, pressure, temperature, and radiation effects on stainless steel, (E), 25:23310 (EURFNR-884)
cladding failure in high burnup mixed oxide, effects of fuel contaminates on Zircaloy, (E), 24:26835(R) (BNWL-1358)
cladding failure in liquid metal-cooled reactor, description of multiple sampling pipes and fission product detection system for, 23:19501(P)
cladding failure in liquid-cooled, description of rotating-vane gas-collection alarm system for, 22:25185(P)
cladding failure in PM-type tubular, from fuel swelling and ductility losses, 23:34931
cladding failure in simulated NPR loss-of-coolant accident, 21:8117 (HW-70652)
cladding failure in subassemblies of, xenon-isotope tagging method for detection of, 24:175 (ANL-7575, pp 77-129)
cladding failure in water cooled, fission gas detection system for analysis of, 24:4064
cladding failure in water cooled, simulation of fission gas release during, (E), 24:26796
cladding failure in WWR-S Bucharest, γ spectroscopy of coolant for detection, 24:11266 (IFA-FR-78)
cladding failure of gas cooled graphite moderated power, 25:3879
cladding failure of, effects of power change increments on, (E), 25:54282 (A/CONF.49/P-314)
cladding failure of, multi-way selector valve for system for detection of, 23:31461(P)
cladding failure of, size distribution of bubbles emitted from simulated, (E/T), 24:33443
cladding failure on, computer analysis of, 25:40029
cladding failure on, effects of heat treatments and working on metal, 24:34898(P)
cladding failure, effects of water on Zircaloy-2, 21:30966
cladding failures in gas-cooled reactor, description of multiple delayed neutron detectors and electrostatic collectors for detection of, 23:9185(P)
cladding failures in JRR-2, destructive materials testing of, 23:26087 (JAERI-1175)
cladding failures in sodium bonded, sodium soluble isotopic tagging methods for location of, (T), 25:60083 (ANL-7785)
cladding failures of, description of pressure vessel-contained coolant sampling facility for detecting, 22: 42276(P)
cladding failures of, description of shielded neutron detector coolant-monitoring system for, 22:42560(P)
cladding fatigue in fast cores, effects of intermittent passage of gas bubbles on, (T), 24:33399
cladding for AGR type, effects of acoustic noise on, (T), 23:43123
cladding for aluminum—uranium alloy, measurement of krypton-88 for leak characteristics of, 24:43764 (IAE-1893)
cladding for annular, description of herringbone finned channel wall and tube, 23:37832(P)
cladding for boiling water cooled rod type, effects of coolant loss accident conditions on swelling and failure of Zircaloy, (E), 25:46267 (GEAP-13112)
cladding for boiling water, effects of coolant loss conditions on temperature and performance of Zircaloy, (E), 25:48285 (GEAP-13174)
cladding for carbon dioxide cooled graphite moderated annular, description of outer magnesium alloy chevron finned inner zirconium alloy, 23:37550(P)
cladding for carbon dioxide cooled, description of copper—nickel alloy and nickel, 23:37551(P)
cladding for carbon dioxide cooled, oxidation of beryllium—copper alloy, 23:52360(P)
cladding for carbon dioxide-cooled heavy water-moderated 600 MW(e) power reactor, analysis of mechanical properties of, 22:30241
cladding for carbon dioxide-cooled reactor, effects of metallic coatings on corrosion protection of zirconium and zirconium alloy, 23:17281 (CEA-R-3612)
cladding for central void cylindrical pin type, effects of configuration on minimum stress from fission gases in, 23:43174 (N-69-24802)
cladding for cylindrical pin-type, effects of fuel swelling on strains in, 24:27757 (N-70-16239)
cladding for cylindrical rod and two-dimensional plate, method for calculating temperature field in, 23:45467
cladding for cylindrical, description of helical on herringbone finned, 23:37830(P)
cladding for cylindrical, strength testing of finned, 24: 36527 (EUR-4457)
cladding for cylindrical, stress-rupture strength and creep of, (T), 23:52352(T) (JPRS-48331, pp 576-600)
cladding for fast breeder reactor, FBR development program purchase requirements for Type 304 stainless steel, Type 316 stainless steel, Incoloy 800, and Inconel 625 tubes for, 23:13497 (AI-AEC-12721, pp 161-3)
cladding for fast breeder, design criteria for type-304 and -316 austenitic stainless steel, 22:6019
cladding for fast breeder, development and testing of, 24:14694 (GEMP-1013, pp 139-47)
cladding for fast breeder, radiation effects on, 22:32776 (KFK-700(Pt. X))
cladding for fast breeder, radiation effects on, 22: 53273(T) (EURFNR-472)
cladding for fast breeder, requirements for, 24:9988 (KFK-985, pp 1-16)
cladding for fast breeders, properties of Type 316 stainless steel, 23:12302(R) (WARD-3791-26)
cladding for fast ceramic, evaluation of, 21:46854(R) (GEAP-5098)
cladding for fast reactor, fast neutron radiation effects on creep in, 25:54110
cladding for fast reactor, fast neutron radiation effects on, 25:54108
cladding for fast reactor, stress and strain calculations for, 25:54114
cladding for fast, analysis of, 21:46938(R) (BNWL-501)
cladding for fast, analysis of accelerated creep of, 23: 49572 (ANL-7410, pp 229-337)
cladding for fast, analysis of temperature transient-induced failures of, 23:49572 (ANL-7410, pp 229-337)
cladding for fast, design and performance of eddy current equipment for detecting defects in, 25:6497
cladding for fast, development of thin-walled small-diameter, 24:29995
cladding for fast, eddy current equipment for testing stainless steel, 23:31500
cladding for fast, effects of thermal stresses on deformation of, (T), 25:34353(T) (JPRS-53069, pp 204-14)
cladding for fast, fatigue strength of stainless steel, (T), 25:48269
cladding for fast, performance of chromium—nickel—austenitic stainless steel alloy, 24:18661
cladding for fast, program in Belgium for development of, 25:39227 (NP-18809, pp 1.1-33)
cladding for fast, properties of dispersion-strengthened ferritic stainless steel, 25:47119
cladding for fast, properties of Type 316 stainless steel for, (E), 25:37139 (CONF-700211-7)
cladding for FBR development program, effects of high-temperature sodium and helium environment on Type 304 stainless steel and Type 316 stainless steel tube-type, 23:13498 (AI-AEC-12721, pp 165-84)
cladding for FBR development program, effects of injected helium on Types 304 and 316 stainless steel thin-walled tube-type, 23:13499 (AI-AEC-12721, pp 243-54)
cladding for FFTF, nondestructive testing of stainless steel, 23:16055 (BNWL-SA-2275)
cladding for flat sided, description of helical on herringbone finned, 23:37829(P)
cladding for FTR driver, stress analyses for, 23: 31193(R) (BNWL-567)
cladding for FTR, computer analysis of deformation in, 24:12392 (BNWL-1171)
cladding for FTR, high neutron fluence-induced swelling of austenitic stainless steel, 23:31193(R) (BNWL-567)
cladding for FTR, radiation effects on, 21:46938(R) (BNWL-501)
cladding for gas cooled, effects of chamfered rib height and volume on heat transfer and pressure drop of,(E), 24:29017 (RD/B/N-1595)
cladding for gas cooled, flow detection techniques for, 25:48238
cladding for gas-cooled, fabrication of beryllium alloy, 23:36034(P)
cladding for graphite moderated gas cooled power, effects on heat transfer of herringbone pattern fins on cylinder shaped, (E), 24:43752 (CEA-N-1329)
cladding for graphite—gas-cooled, radiographic method for inspection of welds on, 25:6509
cladding for heavy-water, mechanical properties and testing of materials for, 23:41644
cladding for irradiation testing of pin-type, evaluation of Type 304 stainless steel as, 23:20530 (BMI-1857, Sect.A)
cladding for IRT-2000, corrosive effects of 4 year operation on aluminum, 24:2040
cladding for liquid metal cooled fast breeder power, effects of burnup and neutron spectra on failure of, 23: 37526
cladding for liquid metal cooled, fast neutron radiation and high temperature effects on swelling and embrittlement of stainless steel, 25:54109
cladding for liquid metal-cooled fast reactor, pulsed-electromagnetic field method for detection of defects in, 25:6491
cladding for liquid metal-cooled fast reactor, stress analysis of, 23:19495(T) (EURFNR-570)
cladding for liquid sodium cooled pin type fast breeder, CRASH computer program for strain and stress analysis in, 24:16309 (KFK-1050)
cladding for liquid sodium cooled, corrosion problems for titanium—vanadium alloy, 25:37016 (CONF-700211-9)
cladding for LMFBR, compatibility of plutonium carbide—uranium carbide fuels with stainless steel, 24: 6287
cladding for LMFBR, corrosion testing of vanadium-base alloys for, 24:8050 (BNL-14211)
cladding for LMFBR, development and testing of vanadium-base, 24:14708(R) (WARD-3791-42)
cladding for LMFBR, development of alloys for, 23: 3052
cladding for LMFBR, development program for, 23: 2035 (WASH-1107)
cladding for LMFBR, properties and economics of vanadium alloys for, 23:52356
cladding for mixed oxide fast, development and testing of stainless steel, 25:1888(R) (GEAP-10028-35)
cladding for mixed oxide fast, development and testing of, 25:54096(R) (GEAP-10028-38)
cladding for mixed oxide fast, development and testing of stainless steel, 25:18137(R) (GEAP-10028-36)
cladding for mixed oxide fast, development and testing of, 24:43762(R) (GEAP-10028-33)
cladding for mixed oxide fast, neutron radiation effects on swelling of stainless steel, (E/T), 24:38552
cladding for mixed oxide, performance of defected, 23: 37507(R) (GEAP-5700)
cladding for mixed oxide, performance of defected, 23: 43115(R) (GEAP-5753)
cladding for mixed oxide, performance of defected, 23: 43116(R) (GEAP-10028)
cladding for mixed oxide, performance of defected, 24: 4058(R) (GEAP-10028-31)

cladding for mixed oxide, performance of deflected, 24:16190(R) (GEAP-10028-32)
cladding for mixed uranium oxide (UO_2)—plutonium oxide (PuO_2) fast, development and testing of stainless steel, 25:28691(R) (GEAP-10028-37)
cladding for natural uranium fueled gas cooled graphite moderated, effects of fin configuration on optimum heat transfer of tube shaped, (E/T), 24:20568 (JUL-618-RB)
cladding for Orgel-type, description of ultrasonic inspection method for finned-tube, 22:39798
cladding for pin-type, radiation testing of, 25:703 (BNWL-1349-2, pp 4.1-154)
cladding for plates, performance of Type 2219 aluminum as, 21:18203(R) (IDO-17218)
cladding for plutonium oxide (PuO_2)—uranium dioxide (UO_2) pin type, development and testing of stainless steel, 24:46043(R) (GEAP-10028-34)
cladding for plutonium—uranium carbide, performance of Nimonic, 23:38924 (TRG-Report-1835)
cladding for prismatic four sided, description of channeled chevron finned, 23:37831(P)
cladding for PWR, failure conditions for, 21:38438(R) (BMI-1810)
cladding for PWR, time required during blowdown for melting of, 21:38438(R) (BMI-1810)
cladding for rod type, description of electrical heater for testing, 25:54299(P)
cladding for rod type, description of helical finned graphite, 23:37815(P)
cladding for rod type, description of helical finned pin secured graphite, 23:37813(P)
cladding for rod type, description of longitudinal rib interconnected hexagonal shaped, 23:37817(P)
cladding for rod type, description of longitudinal toothed spacers for screw braced, 23:37841(P)
cladding for rod type, description of metal wire reinforced ceramic, 23:37816(P)
cladding for rod type, description of stacked zirconium alloy, 23:37840(P)
cladding for rod type, effects of coolant loss accidents on Zircaloy, (E/T), 24:46071(R) (ORNL-TM-3061)
cladding for rod type, high temperature and metallurgical properties of Zircaloy, 24:46071(R) (ORNL-TM-3061)
cladding for rod type, resonance integral of zirconium, (E/T), 24:43817 (TKK-F-A-106)
cladding for rod, analysis of creep buckling of cylinder shaped, (T), 25:54312
cladding for sodium cooled, development of stainless steel, 25:51030(R) (NAA-SR-12492)
cladding for sodium cooled, effects of gas bubbles in coolant on hot spots in, (T), 25:37037 (CONF-700608-36)
cladding for sodium-cooled, 22:27396(R) (AI-AEC-12638)
cladding for sodium-cooled, fabrication of chromium—vanadium alloy, 23:36037(P)
cladding for sodium-cooled, fabrication of vanadium—silicon alloy, 23:36035(P)
cladding for spiral-spacer-type fast breeder, temperature distributions in, 23:11239 (KFK-768)
cladding for steam cooled fast breeder power reactor rod type, effects of spiral spacer configurations on stress and temperature distributions in, 23:31165 (KFK-805)
cladding for superheating fast breeder reactor, effects of operating conditions and configuration on stress and temperature distribution in spiral spacer type, 23:33052(T) (EURFNR-607)
cladding for Sweden fast breeder steam-cooled, pressure testing of, 23:11237 (CONF-680419-, pp 291-300)
cladding for thermal-insulated, description of longitudinal groove-spaced, 22:42409(P)
cladding for tubular uranium or uranium alloy, method for fabrication of, 23:36059(P)
cladding for tubular, description of circumferential edge-welded end plugs for shroud-enclosed sheath-type, 22:42415(P)
cladding for uranium dioxide, effect of stress and temperature on failure of Zircaloy, 24:5861
cladding for uranium dioxide, effects of vibration compaction on, 24:3015
cladding for uranium rod, method using Magnox, 21:23765(P)
cladding for uranium, description of fabrication of dual-layer magnesium alloy finned-tube, 22:42470(P)
cladding for uranium, heat and mass transfer in magnesium—zirconium alloy herringbone finned tube, 24:7582
cladding for use in gas coolants, design of finned, 23:36188(P)
cladding for vented-type uranium oxide (UO_2), testing of compatibility of Type 304 stainless steel flex-can and Hastelloy X, 23:17188(R) (GA-8107)
cladding for water cooled breeder, radiation effects on dimensional changes of Zircaloy-4, (E/T), 25:51098 (WAPD-TM-973)
cladding for water cooled, effects of coolant loss accident conditions on Zircaloy-2, (E), 25:37038 (IN-1453)
cladding for water cooled, effects of emergency core cooling environment on embrittlement of Zircaloy, (E), 24:52915 (IN-1389)
cladding for water cooled, high temperature steam reactions with, (E), 24:36043 (ANL-7609)
cladding for water-cooled reactor, effects of metallurgical properties on use of zircaloy, 22:35493
cladding for water-cooled, fabrication of zirconium alloy, 21:6798(R) (EURAEC-1738)
cladding for water-cooled, testing austenitic stainless steel, 22:34012 (GEAP-5530)
cladding for Yankee Core-IV, radiation effects on, 21:30181(R) (WCAP-6082)
cladding for Yankee, mechanical properties of irradiated, (E), 21:1181(R) (WCAP-6081)
cladding for, analysis of plastic stability of Zircaloy-2, 21:38762
cladding for, analysis of thermal ratchetting in cylinder, (T), 25:54311
cladding for, bibliography on flowing liquid sodium corrosion of, 23:4221 (ZFK-129)
cladding for, bibliography on tracer techniques for leak detection in, 24:26836 (CEA-Bib-177)
cladding for, BIPPY code for correlation of burnup and damage to, 24:13547 (BNWL-1247)
cladding for, burst and quench tests on irradiated Zircaloy, 25:18139 (WCAP-7379(Vol.2))
cladding for, BUSHL computer program for analysis of buckling collapse of, 25:32102 (WAPD-TM-890)
cladding for, calculation of required strength of, 25:13662
cladding for, chemical and radiation effects on rupture of Zircaloy, (E), 24:52951 (ORNL-TM-3122)
cladding for, chemical and radiation effects on rupture of Zircaloy, (E), 25:10244(R) (ORNL-TM-3212)
cladding for, closed-end burst testing of, 25:58209 (AECL-3992)
cladding for, combined eddy current and electric conductivity measurements for inspecting aluminum, 25:6511
cladding for, COMET code for calculation of mechanical and thermal stresses in, 25:27202 (EUR-4562)
cladding for, COMETHE II code for stresses and strains in, (E/T), 24:46134
cladding for, composition of stainless steel for, 21:38808(P)
cladding for, computer analysis of expansion-induced deformation and strains in, 25:32776(R) (WARD-4135-13)
cladding for, computer analysis of radioinduced creep in, 25:32776(R) (WARD-4135-13)
cladding for, computer-based system for physical measurements of finned, 23:31240
cladding for, coolant loss accident effects on embrittlement of Zircaloy, 25:51148
cladding for, coolant water analysis for evaluation of fuel leakage through, 23:15812 (KURRI-TR-3)
cladding for, corrosion and hydriding effects on Zircaloy-4, 21:39544(R) (BAW-3765-3)
cladding for, corrosion by lithium and sodium, 23:43942 (CONF-680510-(Absts.))
cladding for, corrosion by sodium at 500 to 600°C of steel, 24:32340 (KFK-991)
cladding for, corrosion by sodium at 500 to 600°C of steel, 24:42052(T) (EURFNR-753)
cladding for, corrosion of stainless steel, 21:32823(R) (GEAP-5281)
cladding for, corrosion of Zircaloy, 21:44861(R) (WCAP-3269-20)
cladding for, corrosion-resistant brazing for, 24:44680
cladding for, creep and yield longitudinal wrinkling in simulated thin tube, (E/T), 23:28632 (TRG-Report-1499)
cladding for, creep model of internally pressurized, 22:40345
cladding for, data sheets on Zircaloy, 25:42859
cladding for, delayed-neutron detection in, design and performance of boron-lined proportional detector for, 23:17545
cladding for, description of longitudinal baffle spaced and helical finned cylindrical, 23:37822(P)
cladding for, description of longitudinal on chevron finned cylindrical aluminum—zirconium alloy, 23:37838(P)
cladding for, description of method for securing end cap to, 22:42440(P)
cladding for, description of system for detection of rupture of, 22:25126 (CEA-R-3342)
cladding for, description of thermocouple technique for temperature measurement in, 23:11357
cladding for, description of welded double end-cap sealed, 24:22513(P)
cladding for, description of zirconium alloy dual-jackets and end-plugs, 22:37571(P)
cladding for, design and performance of CSF-67 equipment for testing, 23:11730 (CEA-CONF-1073)
cladding for, design and performance requirements for, 25:54310
cladding for, design of, 21:46980(P)
cladding for, design of clamp for compressive loading of, 22:12504(P)
cladding for, design of clamp for compressive loading of, 22:12505(P)
cladding for, design of dimensionally stable stainless steel, 21:39600(P)
cladding for, design of equipment and processes for Zircaloy, 25:13645
cladding for, design of finned, 21:46991(P)
cladding for, design of finned tubes for, 23:35375(P)
cladding for, design of flexible, 21:38776(P)
cladding for, design of graphite tube for, 21:40704(P)
cladding for, design of grooved-profile heat transfer, 21:36255(P)
cladding for, design of in-pile stress and thermal cycling facility for testing, 25:13142
cladding for, design of inclined-groove heat transfer, 21:36254(P)
cladding for, design of machine for milling internal walls of, 24:22860(P)
cladding for, design of plug and needle valve for, 24:41586(P)
cladding for, design of profile milling machine for fabrication of, 24:46410(P)
cladding for, design of self-supporting finned, 21:46987(P)
cladding for, design of star-shaped, 23:35373(P)
cladding for, design of stress-testing system for irradiated, 24:405
cladding for, design tolerance for, 24:10044 (KFK-985, pp 403-18)
cladding for, determination of circumferential ductility of Zircaloy, 23:27087
cladding for, determination of mechanical properties in dynamic sodium atmosphere of, 22:27396(R) (AI-AEC-12638)
cladding for, development and testing of stainless steel, 25:654(R) (WARD-4135-12)
cladding for, development and testing of stainless steel, 25:32685(R) (WARD-4210-T-3-2)
cladding for, development and testing of Type 316 stainless steel, 24:23438(R) (WARD-4135-5)
cladding for, development of aluminum—iron—magnesium—nickel—silicon alloys for, 21:40631(P)
cladding for, development of beryllium—magnesium alloy for, 21:39573(P)
cladding for, development of chromium-base, 22:4753
cladding for, development of creep resistant zirconium—copper—molybdenum—niobium alloy for, 21:39586(P)
cladding for, development of high heat flux heaters for testing in sodium of, 23:47668 (AI-AEC-12813)
cladding for, development of high-temperature, 25:19179
cladding for, development of magnesium—yttrium alloys for, 21:39601(P)
cladding for, development of magnesium—zirconium alloys for, 21:39575(P)
cladding for, development of Magnox ZR 55, 21:23690(P)
cladding for, development of materials, 23:30005 (GEMP-1010, pp 99-147)
cladding for, development of materials for, 25:29916
cladding for, development of plutonium diffusion resistant, 21:39602(P)
cladding for, development of Type 316 stainless steel, 23:45985(R) (WARD-3791-35)
cladding for, development of ultrafine grain Type 316 stainless steel, 25:52317
cladding for, development of vanadium alloy, 23:24794(R) (WARD-3791-30)
cladding for, development of Zircaloy, 21:6777
cladding for, development of zirconium alloys for, 21:39581(P)
cladding for, development of zirconium—copper—niobium for, 21:39587(P)
cladding for, development of zirconium-base alloys for, 21:39570(P)
cladding for, development status of, 25:8828 (BNWL-SA-3426)
cladding for, dimensional stability of, 22:3859
cladding for, direct current electric arc welding of, 23:4764(P)
cladding for, dissolution of zirconium oxide on Zircaloy, using ammonium fluoride—ammonium nitrate, 22:37827 (BNWL-600)
cladding for, DYSYS computer program for analysis of creep collapse of, 25:13158
cladding for, economic and kinetic effects of niobium and molybdenum, 25:23297 (ORNL-TM-3271)
cladding for, eddy current equipment and method for detection of defects in, 25:6492
cladding for, eddy current equipment for testing of, 23:33344
cladding for, eddy current method for testing of, 23:33343
cladding for, eddy current testing for cracks in irradiated, 25:46603
cladding for, eddy current testing for defects in, 25:39670 (CEA-R-3989)
cladding for, effect of cracked fuel pellet expansion on stresses and strains in, (T), 24:46128
cladding for, effects of air and water on electric conductivity of sodium-exposed Types 304 and 304L stainless steel, 23:46001 (ANL-7520(Pt.1), pp 426-37)
cladding for, effects of air and water on microstructure of sodium-exposed Types 304 and 304L stainless steel, 23:46001 (ANL-7520(Pt.1), pp 426-37)
cladding for, effects of alpha-induced helium on ductility of, 24:14834
cladding for, effects of coolant loss accident conditions on failure of Zircaloy, (E), 25:23313(R) (ORNL-TM-3263)
cladding for, effects of coolant loss accident conditions on failure of Zircaloy, 25:57092(R) (ORNL-TM-3483)
cladding for, effects of coolant loss accident conditions on failure of Zircaloy, (E), 25:34393(R) (ORNL-TM-3342)
cladding for, effects of coolant loss accidents on Zircaloy, (E/T), 24:36051(R) (ORNL-TM-2984)
cladding for, effects of coolant loss accidents on embrittlement of Zircaloy, (E), 25:10244(R) (ORNL-TM-3212)
cladding for, effects of coolant loss accidents on, (T), 24:29034(R) (BMI-1881)
cladding for, effects of coolant loss accidents on swelling of, 24:16211(R) (BMI-1877)
cladding for, effects of coolant loss accidents on embrittlement of Zircaloy, (E), 24:52951 (ORNL-TM-3122)
cladding for, effects of coolant temperature on corrosion of Zircaloy, 21:44862(R) (WCAP-3269-21)
cladding for, effects of embedded abrasive particles on failure of aluminum, 25:8853 (ORNL-4600, pp 249)
cladding for, effects of fabrication methods on mechanical properties of Zircaloy, 25:42860
cladding for, effects of lithium silicate on inhibition of corrosion of aluminum, 24:12354 (DP-1197)
cladding for, effects of steam and liquid sodium on austenitic steels and nickel alloys for, 22:32772 (KFK-700(Pt. III))
cladding for, effects of steam and liquid sodium on austenitic steels and nickel alloys for, 22:53273(T) (EURFNR-472)
cladding for, effects of sulfurization on friction and wear protection of WWN1 steel, 23:41563 (INR-1049)
cladding for, effects of thermal neutron flux peaking on thermal stress in finned and smooth, 22:3821 (EUR-3557)
cladding for, effects of thermal neutron flux peaking on temperature distribution in finned and smooth, 22:3821 (EUR-3557)
cladding for, effects on performance of emergency core cooling system of swelling of Zircaloy, 24:36045 (CONF-700608-8)

cladding for, effects on performance of emergency core cooling system of deformation and swelling of, 24:36038 (CONF-700608-11)
cladding for, electric welder for end closures, 22:19010
cladding for, electrolytic polishing method for, 25:52315(P)
cladding for, equipment and method for automatic measurement of dimensions of tubes for, 25:315
cladding for, equipment and methods for pickling of, 23:38928(P)
cladding for, equipment for extruding, 22:41017(P)
cladding for, equipment for measurement of thermal conductivity of irradiated, 24:39108 (DP-Report-169)
cladding for, evaluation of cobalt alloys as, 21:32857 (BNL-11530)
cladding for, evaluation of cold work and grain size effects on, 24:5845
cladding for, evaluation of design criteria for fission product retention by, 22:27492
cladding for, evaluation of irradiation performance of, 22:41128 (CEND-2936-335, V.1-25)
cladding for, evaluation of type 316 stainless steel, Vanstar-7, and Vanstar-9 as, 22:34046(R) (WARD-3791-17)
cladding for, fabrication and properties of corrosion resistant chromium—zirconium tubing for, 21:39657(R) (GEAP-5516)
cladding for, fabrication annular shaped herringbone finned, 23:37827(P)
cladding for, fabrication of aluminum—aluminum oxide cermet, 22:42570(P)
cladding for, fabrication of beryllium, 21:45879(P)
cladding for, fabrication of beryllium, 21:45877(P)
cladding for, fabrication of cermet, 21:34178(P)
cladding for, fabrication of finned, 23:33311(P)
cladding for, fabrication of finned tubes for, 23:33309(P)
cladding for, fabrication of Magnox for, 21:39593(P)
cladding for, fabrication of tubes from cellulosic materials for, 21:39679(P)
cladding for, facilities for fabrication, handling, and shipment of, 24:36875
cladding for, failure mechanisms of, 23:36099
cladding for, fission product diffusion into Magnox, 21:31964
cladding for, heat transfer and pressure drop measurements for finned tube, (E), 24:38637
cladding for, helium sweating method for tightness control of, 23:45486
cladding for, high temperature and metallurgical properties of Zircaloy, 24:36051(R) (ORNL-TM-2984)
cladding for, hydride orientation in Zircaloy, 23:8218
cladding for, improved eddy current equipment and method for detecting defects in, 25:6494
cladding for, in-pile radiation effects of dimensional changes of Zircaloy-4, (E/T), 24:33334
cladding for, induction heating equipment for brazing wear pads to, 22:49007(P)
cladding for, intergranular cracking study of stainless steels as, 22:26027 (GEAP-5495)
cladding for, irradiation testing of refractory carbide, 24:37001 (ORNL-4520, pp 295-7)
cladding for, krypton-85 release method for determination of temperature of, 24:12407
cladding for, least squares description of radial distortion in irradiated, 25:11368 (AECL-3688)
cladding for, literature survey of properties of, 22:21759 (LA-3799)
cladding for, magnetic-force welding of end closures for SAP, 21:38507
cladding for, mechanical properties of Type 304L stainless steel, 22:30118 (ANL-7438)
cladding for, method for control of transducers for ultrasonic testing of, 25:6506
cladding for, method for deposition of graphite coating on, 25:13745(P)
cladding for, method for determining number of inclusions in stainless steel, 25:6855 (NP-18565)
cladding for, method for welding end cap closures for, 24:41588(P)
cladding for, method of calculating disadvantage factors for, 22:50850
cladding for, methods for testing, 24:9611 (KFK-985, pp 419-29)
cladding for, model for evaluation of performance of, 24:44817 (ORNL-4560, pp 67-87)
cladding for, model for fuel pellet expansion-induced stresses in, 24:6201
cladding for, models for prediction of in-pile performance of, 24:46127
cladding for, neutron dose during TREAT transient studies to, 21:46854(R) (GEAP-5098)
cladding for, neutronic and physical characteristics, 22:32772 (KFK-700(Pt. III))
cladding for, neutronic and physical characteristics, 22:53273(T) (EURFNR-472)
cladding for, nondestructive testing of, 23:33354
cladding for, nondestructive testing of Zircaloy, 24:41636
cladding for, optimum composition of stainless steel for, 21:39639(P)
cladding for, optimum welding methods for niobium—zirconium alloy, 25:42831
cladding for, powder metallurgy method for production of steel, 25:639(P)
cladding for, preparation of aluminum—aluminum oxide—magnesium—magnesium oxide composite-type, 24:39696(P)
cladding for, preparation of chromate coating for magnesium or magnesium alloy, 22:18622(P)
cladding for, preparation of magnesium nitride, 21:39583(P)
cladding for, preparation of vanadium-base composite, 25:32667(P)
cladding for, pressurization for prevention of collapse of, 21:38807(P)
cladding for, probabilistic design of, 24:33325
cladding for, program for evaluating damaging effects of defects in finned tube-type, 25:6499
cladding for, properties of alloys of aluminum, beryllium, magnesium, vanadium, and zirconium for use as, 25:19203
cladding for, properties of austenitic stainless steel, 25:27214(P)
cladding for, properties of beryllium alloys as, 23:22454(P)
cladding for, properties of copper—zirconium alloy as, 23:6644
cladding for, properties of Hastelloy X, 22:49707 (AGN-8289(Vol.1))
cladding for, properties of metal-impregnated graphite for use as, 24:48875
cladding for, properties of Type 304 stainless steel, 25:22119(R) (WHAN-FR-40-1)
cladding for, properties of Zircaloy, 25:664
cladding for, quality control of, 23:41561 (CONF-681064-8)
cladding for, radiation effects on, 21:19403
cladding for, radiation effects on microstructure of Type 304 stainless steel, 24:12434 (BNWL-1223, pp 4.1-107)
cladding for, radiation effects on stainless steel and nickel alloy, 25:52389 (A/CONF.49/P-453)
cladding for, radiation effects on Zircaloy-2, 25:12862 (JAERI-Memo-4192)
cladding for, radiation scattering method for measuring thickness of, 25:8956 (ORNL-4600, pp 235-48)
cladding for, radiation testing of aluminum and aluminum alloy, 25:29905 (ORNL-4630, pp 239-60)
cladding for, radiation testing of type 348 stainless steel, 21:6848
cladding for, radiographic inspection of welded magnesium or magnesium alloy, 24:33857(P)
cladding for, radioinduced mechanical property changes in, 25:2755 (BMI-1889, Sect.B)
cladding for, relations of neutron cross section with radiation effects on, 25:39977(R) (AI-AEC-12993)
cladding for, review of research on failure of Zircaloy, 25:8839 (ORNL-TM-3188)
cladding for, stresses caused by zirconium oxide (ZrO_2) phase change in, 22:42160(R) (BMI-1844)
cladding for, study of ring test for determination of transverse ductility of, 25:32680 (AE-412)
cladding for, tangential form grinding method for surface finishing of, 24:36875
cladding for, test methods for, 24:9612 (KFK-985, pp 431-49)
cladding for, testing by tangential elongation of beryllium, 22:15218
cladding for, testing chromium—zirconium alloy, 22:34016 (GEAP-5589)
cladding for, testing for use in high-temperature steam and water, 22:36484
cladding for, testing of Type 316 stainless steel, 25:8911 (ORNL-4600, pp 65-80)
cladding for, testing of vanadium alloys as, 21:13161(R) (WCAP-3487-15)
cladding for, testing zirconium alloy, 23:22464(R) (GEAP-5743)
cladding for, thermal stress analysis of silicon carbide coated graphite, 21:13969(R) (GA-6245)
cladding for, thermo-elastic expansion of, 21:34166 (AECL-2660)
cladding for, time dependence of oxygen saturation of Zircaloy, 22:42160(R) (BMI-1844)
cladding for, transient temperature deformation and rupture behavior of Zircaloy-4, (E), 25:41462
cladding for, ultrasonic testing of, 23:7711 (CEA-CONF-1082)
cladding for, welding methods for, 23:48372
cladding for, welding of plug to end of zirconium or zirconium alloy, 24:14668(P)
cladding from irradiated EBR-II, burst tests on Type-304L stainless steel, 21:26861(R) (BNWL-CC-658)
cladding inspection using machined micro notches, 23:978
cladding interface performance in contact with liquid sodium, 24:16190(R) (GEAP-10028-32)
cladding interface performance in contact with sodium, 23:43115(R) (GEAP-5753)
cladding interface performance in contact with sodium, 23:43116(R) (GEAP-10028)
cladding interface performance in contact with sodium, 24:4058(R) (GEAP-10028-31)
cladding leak detector for pressurized gas-filled, description of gas-activated whistle for, 22:42410(P)
cladding leaks in, remote detection using krypton-88, 25:54904
cladding leaks in, testing of, 21:31943(R) (NP-16803)
cladding material for EBR-II, measurement of voids in fast neutron irradiated, 23:22584 (BNWL-790, pp 3.9-10)
cladding material for, properties of iron-base—chromium—nickel alloys for, 24:9999 (KFK-985, pp 303-12)
cladding material procurement procedures for, 22:30155(R) (NAA-SR-12296)
cladding materials development for, review of, 21:1899
cladding materials development for, review of, 23:9264
cladding materials evaluation for, sampling blanks for oxygen control in liquid sodium for, 22:12223 (NAA-SR-12616)
cladding materials for carbon dioxide-cooled reactors, 21:28741(P)
cladding materials for ceramic, for BWR- and PWR-type reactors, 21:1917 (BNWL-SA-672)
cladding materials for fast breeder, development of, 21:12144 (NAA-SR-12242)
cladding materials for fast breeder, development of, (E/T), 25:28632(T) (EURFNR-824)
cladding materials for fast breeder, development of, (E/T), 25:60010(T) (EURFNR-902)
cladding materials for fast breeder, development of, 21:35572 (EURFNR-312)
cladding materials for fast, helium degradation effects on, 23:1991(R) (AI-AEC-12680)
cladding materials for fast, mechanical properties of, 25:41364(T) (EURFNR-849)
cladding materials for fast, radiation damage and corrosion behavior in, 25:12768(R) (EURFNR-855)
cladding materials for liquid-metal-cooled fast breeder reactor, review of, properties of, (E), 22:35425 (BMI-1900)
cladding materials for LMFBR, corrosive effects of high temperature sodium on, 23:35385
cladding materials for silicon dioxide—uranium dioxide, 23:36175
cladding materials for sodium-cooled, development of cobalt-base, 22:38510 (BNL-50082, pp 93-152)
cladding materials for sodium-cooled, fabrication and testing of, 23:1991(R) (AI-AEC-12680)
cladding materials for, brazing and welding of, 21:1879
cladding materials for, compatibility with fuel carbides of, 22:24925(R) (ANL-7427)
cladding materials for, corrosion and radiation embrittlement of, 22:47660 (CONF-671007-2)
cladding materials for, corrosion and stress-rupture testing of, 22:40288 (AI-AEC-12681)
cladding materials for, corrosive effects of sodium on, 23:48320 (GEMP-573(Rev.))
cladding materials for, effects of aging on microstructure of, 24:10079 (KFK-985, pp 335-58)
cladding materials for, effects of Emergency Core Cooling Systems operation on emissivity of, 22:51276(R) (IDO-17269)
cladding materials for, effects of heat treatments on performance of stainless steel, 24:10014 (KFK-985, pp 249-54)
cladding materials for, effects of liquid sodium- and steam-induced corrosion on, 22:32775 (KFK-700(Pt. IX))
cladding materials for, effects of liquid sodium- and steam-induced corrosion on, 22:53273(T) (EURFNR-472)
cladding materials for, ENDF/B data analysis of neutron induced displacement damage in, 23:37748
cladding materials for, evaluation for HWOCR, 22:3813(R) (AI-CE-54)
cladding materials for, extrusion method for fabrication of, 23:38939(P)
cladding materials for, fabrication techniques for, 21:1878
cladding materials for, fast neutron effects and corrosion behavior of, 24:24785(R) (RCN-114)
cladding materials for, mechanical properties measurements in liquid sodium on, 22:30155(R) (NAA-SR-12296)
cladding materials for, mechanical properties of, 22:16202
cladding materials for, mechanical properties of, 21:1900
cladding materials for, metallurgical properties of, 21:1901
cladding materials for, methods for testing of, 24:9610 (KFK-985, pp 161-81)
cladding materials for, properties of, 21:40710
cladding materials for, radiation effects on, 21:1922
cladding materials for, radiation effects on, 21:38519
cladding materials for, radiation effects on, 22:7788(R) (ANL-7382)
cladding materials for, radiation effects on, 21:13946(R) (ANL-7279)
cladding materials for, radiation effects on, 21:13947(R) (ANL-7286)
cladding materials for, review of, 21:22856
cladding materials for, review of fabrication techniques for, 23:9265
cladding materials for, review of radiation effects in, 23:9264
cladding materials for, review on, 23:26997
cladding materials for, review on development of, 25:45060
cladding materials for, selection and performance of, 23:22457
cladding materials for, selection and performance of, 23:22548
cladding materials for, tube—burst properties of, 22:24925(R) (ANL-7427)
cladding materials of, properties evaluation for, 22:48791
cladding materials testing in dynamic sodium loop, 23:1991(R) (AI-AEC-12680)
cladding metallic uranium, costs of, 21:2871 (ORNL-TM-596)
cladding methods for, 21:30313(P)
cladding of boiling and pressurized water, effects of coolant loss on swelling of, 24:7141(R) (BMI-1871)
cladding of EBR-2 driver, grain-boundary attack on Type 304L stainless steel, 23:45078 (ANL-7537)
cladding of fast breeder, development of materials for, 23:24848 (GEMP-1008, pp 115-41)
cladding of fast reactor plutonium carbide (PuC)—uranium carbide (UC), compatibility with Type 304 stainless steel, 23:4231
cladding of fast reactor plutonium carbide (PuC)—uranium carbide (UC), compatibility with vanadium alloys, 23:4232
cladding of fast, radiation effects on steel, 25:53898 (A/CONF.49/P-460)
cladding of FFTF pin-type, removal of superficial blemishes from Type 316 stainless steel, 24:8068 (BNWL-1176)
cladding of FTR, radiation effects on stainless steel, 21:38679
cladding of gas cooled pin type, effects of heat source boundary conditions on temperature distributions in finned, 25:39253 (RD/B/N-1932)
cladding of gas cooled, fission product distribution in graphite, (E), 24:35955(R) (GA-10099)
cladding of HBWR, radiation effects on Zircaloy-2, 24:1953(R) (HPR-112)

cladding of internal surfaces of tubular, intermetallic diffusion method for, 23:33313(P)
cladding of light water breeder, use of narrow resonance approximation for computing resonance integrals in, 24:7081
cladding of liquid metal cooled bundle type assemblies of, effects of thickness and thermal conductivity on heat transfer by, 24:24842
cladding of liquid metal cooled fast, calculation of fast neutron damage in, 24:24833 (BNWL-1324)
cladding of liquid metal cooled fast, performance of, 25:51026(R) (ANL-7845)
cladding of liquid metal cooled, mathematical model for determining effects of flowing liquid sodium on, 23:9157 (KFK-808)
cladding of liquid metal-cooled fast breeder reactor, economics analysis of type 316 stainless steel and vanadium alloys for, 22:32909
cladding of liquid sodium cooled fast breeder, mechanical properties of austenitic stainless steel, 24:18649 (KFK-964, Sect. 2.1-11)
cladding of liquid sodium cooled, effects of cold wrapper tube technique on swelling of steel, 25:6022
cladding of LMFBR-type reactor uranium nitride (UN), compatibility with metal, 23:4230
cladding of magnesium alloy for, to reduce creep, 21:38771(P)
cladding of mixed oxide ceramic, diffusion in fuel at thermal gradients, 24:23533 (BNWL-1279, pp 3.1-31)
cladding of NPR, end closure method for, 23:38936(R) (HW-71380)
cladding of NPR, end closure method for, 23:38937 (HW-72376)
cladding of pellet type, calculation of interface stresses for cylinder shaped, (T), 25:54316
cladding of pin-type, CRASH computer program for analysis of plastic behavior of, 24:6244
cladding of pin-type, CRASH computer program for calculation of strain and stress in, 24:44712
cladding of pin-type, description of swaging and welding end-closing methods for fabrication of dual-tube, 22:42555(P)
cladding of pressurized water, corrosion film and crud formation on Zircaloy-4, 24:36033(R) (WCAP-3385-23)
cladding of radial lug spaced, description of herringbone arranged fins for, 23:37807(P)
cladding of rod type, description of blade spaced multiple herringbone patterned fins for, 23:37814(P)
cladding of rod type, stress distribution in axial finned cylinder shaped, (T), 25:54314
cladding of rod type, variation principles for calculation of creep distortion in cylinder shaped, (T), 25:54313
cladding of sintered alumina for, 21:38774(P)
cladding of steam cooled, using zirconium inner layer and chromium—iron—nickel alloy outer layer, 23:3022(P)
cladding of tubular, with zirconium alloy, method for inside, 24:46708(P)
cladding of Type-304 stainless steel and Zircaloy-2, effects of energy bursts on reactions with water of, 23:4378
cladding of uranium base, fabrication and materials for, 22:8718(P)
cladding of uranium oxide (UO$_2$) pellet type, neutron radiation effects on coolant loss failure of tube shaped Zircaloy-2 and Zircaloy-4, 24:22406 (ORNL-TM-2850)
cladding of uranium oxide (UO$_2$), effects of coolant loss conditions on Zircaloy, 23:33066(R) (ORNL-4374)
cladding of uranium, effects of ternary additions on plutonium diffusion in magnesium—zirconium and aluminum—magnesium laminated, 22:37575(P)
cladding of uranium, review of electrodeposition methods for nickel, 21:26752 (BNWL-SA-1030)
cladding of water cooled rod type, effects of coolant loss accident conditions on failure of Zircaloy, 25:48290(R) (ORNL-TM-2663)
cladding of water cooled uranium oxide (UO$_2$) rod, effects of coolant loss accidents on failure of Zircaloy, (E), 25:54116
cladding of, analysis of deformation stresses in, (T), 25:54315
cladding of, composition of vanadium-base molybdenum alloy for, 23:33973(P)
cladding of, corrosion testing of vanadium-base alloys in flowing sodium for, 23:38929
cladding of, deformation and collapse of Zircaloy, effects of external pressure on, 21:28761 (WAPD-TM-591)
cladding of, design of milling machine for removing, 23:16024(P)
cladding of, development of iron—nickel alloys for, 21:45883(P)
cladding of, development of molybdenum—rhenium—tungsten alloy for, 23:6651 (GEMP-1004, pp 198-215)
cladding of, effects of coolant loss accident conditions on failure of Zircaloy, (E), 25:48291(R) (ORNL-TM-3411)
cladding of, effects of temperature and surface defects on mechanical properties of type 304 stainless steel and titanium—vanadium, 22:27479 (BNL-50096)
cladding of, effects of water cooled reactor environment on zirconium alloy, 25:39294(T) (LB/G-3006)
cladding of, equipment for detection of bubbles in liquid sodium bond of, 25:31571
cladding of, fabrication and properties of vanadium alloys for, 21:24746 (CEA-R-3152)
cladding of, fission product distribution in graphite, (E), 24:1952(R) (GA-9494)
cladding of, internal pressure testing of cylinder shaped, 24:13524(T) (ORNL-tr-2244)
cladding of, irradiation testing capsule design for, 21:20536 (CONF-660511-, pp 1.3.1-9)
cladding of, magnesium base alloy composition for, 23:33972(P)
cladding of, mechanical properties of, 22:773
cladding of, mechanical properties of fast neutron-irradiated Types 304L and 316L stainless steel for, 23:22620(R) (WARD-3791-28).
cladding of, methods for measurement of thickness of anodizing layers on aluminum, 24:52969
cladding of, properties of zirconium and zirconium alloys for, 22:52184
cladding of, radioinduced failure of stainless steel, 21:4914 (GEAP-5003)
cladding of, rates of interdiffusion in, 22:773
cladding of, reactions with water, 22:773
cladding of, survey of conditions for failure of Zircaloy 2, 23:43216
cladding of, temperature distribution in cylindrical, 22:1890
cladding of, ultrasonic inspection of bonding of, 22:14740
cladding of, ultrasonic testing of, 24:394
cladding of, using improved ductility aluminum—aluminum oxide cermets, 23:24996(P)
cladding of, welding methods for stainless steel and Zircaloy, 23:24815
cladding of, welding method for end cap closures, 23:7686(P)
cladding of, welding methods for SAP, 22:10933
cladding of, with tungsten by diffusion bonding and vapor deposition, 21:9130
cladding penetration seals for instrument leads to, development of aluminum—stainless steel, 22:627 (AI-CE-72)
cladding performance for organic cooled and moderated reactors, 22:49822
cladding performance in EVESR, 21:38518
cladding performance on uranium oxide cored, effects of uranium diffusion on, 23:6667 (GEMP-1004, pp 361-8)
cladding properties for, effect of postirradiation annealing on, 21:13947(R) (ANL-7286)
cladding reactions and stability in sodium, review of data on, 23:41529 (BNL-50179)
cladding reactions in coolant loss accidents, 23:41537
cladding response of steam emergency core cooldown operation, Zircaloy, 23:41131(R) (IDO-17299)
cladding rupture, detection and location methods for boiling, pressurized-water, superheating, and water-cooled reactors, 23:17194 (CEA-R-3654)
cladding stress and strain distributions from thermal expansion of cracked fuel pellets, (T), 22:50844 (TRG-Report-1547)
cladding stresses in, COMET computer-code for analysis of mechanical and thermal, 22:53458 (EUR-4049)
cladding surface temperatures for, method for probability calculations of, 24:4150
cladding surfaces of, effects in heat transfer of configuration of, 24:26784
cladding swelling during coolant loss accidents in boiling water, heat transfer and metal creep model for, 23:45095(R) (BMI-1867)
cladding swelling in liquid sodium cooled fast, design limitations of, 23:47151 (ANL-7520(Pt.2), pp 3-19)
cladding swelling of liquid sodium cooled, effects on core performance of, 25:6021
cladding temperature dependence on core cooling during blowdown, 22:39774 (IDO-17272)
cladding temperature history during coolant loss accidents, 22:39774 (IDO-17272)
cladding temperature of, thermocouple measurements of, 24:25334
cladding test loop for, sodium sampling equipment for, 22:4314
cladding testing for liquid cooled reactor, description of centripetal forced bubble trace for, 22:14359(P)
cladding tubes for HWOCR, stress-rupture properties of finned SAP, 21:44814 (AI-CE-42)
cladding tubes for, creep bowing under external pressure of, (T), 22:30353
cladding tubes for, deformation and rupture behavior of Zircaloy-4, (E), 25:60118 (ORNL-4727)
cladding tubes for, equipment and methods for production of Zircaloy, 25:29795
cladding wear by interactions of pins in multi-element grid-type, evaluation of, 25:32776(R) (WARD-4135-13)
cladding with aluminum, 22:17162
cladding-coolant interactions in meltdown accidents, 22:22653(R) (ANL-7419)
cladding-failure detection system for, description of remote-controlled access loop with temperature and pressure test chamber in, 23:15740(P)
cladding-fuel joints in SAP—uranium carbide, evaluation of liquid metal, 23:51090
cladding-to-pellet tolerances for, effects of, 21:46854(R) (GEAP-5098)
claddings for, diffusion of tritium in, 24:10160(R) (ORO-3508-5)
claddings for, fabrication of vanadium—chromium—titanium alloys for, 21:42725(R) (ANL-7357)
claddings for, thermocouples for temperature measurements in, 21:38463(R) (ORNL-4133)
cleaning of spent sodium cooled, effectiveness of lead bath for, (E), 25:23294(T) (CONF-700307-7)
cleaning system for liquid sodium cooled, effectiveness of liquid lead, 24:52933
closure plugs for, methods of installing, 21:44966(P)
coating development for, 21:28799(R) (HW-79345)
coating of hydrogen—uranium—zirconium, with burnable poison of gadolinium oxide, vapor deposition method for, 24:32486
coating of uranium, anodization, 21:39593(P)
coatings for beryllium oxide-base, evaluation of aluminum and aluminum magnesium oxides as, 21:9221 (AAEC/TM-334)
coatings for high temperature gas cooled, silicon carbide, 21:38463(R) (ORNL-4133)
coatings for uranium carbide, method for niobium, 21:39678(P)
coatings for vitroceramic, chemical composition, deposition, and properties of aluminosilicate, 25:55613
coatings for, description of pyrolytic-carbon-bonded, 21:38463(R) (ORNL-4133)
coatings on magnesium and magnesium alloy clad, technique for applying dull black, 23:37828(P)
coatings on, eddy current sensor for measuring oxide, 24:39207 (IN-1317, pp 233-381)
coke deposits on PNPF, effects of, 21:40546 (CONF-661001-54)
combination fuel element-control rod assembly with T-shaped control rods extending through channels in fuel rod bundle, description of, 23:9245(P)
combustion-dissolution process for graphite, 22:4231(R) (IN-1087)
compabilitity of uranium nitride (UN) with rhenium—tungsten alloy and tungsten in thermoelectric, effects of annealing on, 23:49601(R) (UCRL-50004-67-3(Pt.2))
compacted thermosetting-resin-coated particle-type, description of vibration, 23:9254(P)
compacting and filling tubular, remote equipment for, 21:6863
compaction of ceramic fuel powder in metal clad tube, method for vibratory, 23:8287(P)
compatibility of cladding—fuel—sodium-bonded mixed oxide, 23:37506(R) (GEAP-5677)
compatibility of fuel cladding interface in contact with sodium, 23:37507(R) (GEAP-5700)
compatibility of liquid sodium-bonded metal-clad plutonium carbide (PuC)—uranium carbide (UC), analysis of, 22:39790(R) (UNC-5201)
compatibility of plutonium carbide—uranium carbide, with cladding at 800°C, 22:4877
compatibility of sodium with mixed-oxide, experiments on, 21:46854(R) (GEAP-5098)
compatibility of sodium-bonded uranium carbide, with Type 316 and 347 stainless steel cladding at 700°C, 25:19276
compatibility of Type 316 stainless steel-clad sodium-bonded plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), analysis of interface, 22:50732(R) (GEAP-5631)
compatibility with water vapor of pyrolytic-carbon-coated, 21:38463(R) (ORNL-4133)
component assembly method for herringbone finned, 23:37786(P)
components for high-temperature gas-cooled reactor, fabrication method for, 22:11040(P)
components of, use of computer for assembly control for, 23:40414 (CONF-690401-, pp 133-42)
composition and fabrication of fast, 23:51102
composition of spent, 21:10416(R) (K-1691)
composition of stainless steel clad and stainless steel matrix, 23:40486(P)
composition of water cooled graphite moderated, analysis of uranium-236 and neptunium-237 buildup in isotopic, 24:43840 (DUN-SA-132)
composition of water cooled irradiated, calculation of plutonium-236 and plutonium-238, 25:20733 (BNWL-1523)
composition of, description of variable-length flexible pipe for external-core measurements of radioisotopes, 22:37584(P)
condition of Elk River Power Reactor, for September 1967, 21:46839(R) (COO-651-51)
conductivity of irradiated, measurement of thermal, 21:42725(R) (ANL-7357)
conference on claddings for, Karlsruhe, Germany, Dec. 5 to 6, 1968, 24:9987 (KFK-985)
configuration of 500 MW(e) CIRENE-type reactor thorium oxide (ThO$_2$), calculations for optimum economic, 22:44835 (RT/FI-(66)42-bis)
configuration of annular-shaped thin vaulted wafer spherical- or truncated conical-shaped end-plug for tubular, description of, 22:42510(P)
configuration of cartridge-type, description of can-enclosed central rod-supported, 22:37602(P)
configuration of chemonuclear reactor, effects on thermodynamic parameters of, 23:11342
configuration of clad dual-zone burnable-poison plate-type, description of flux-trap reactor, 22:42557(P)
configuration of clad multiple pellet-type axial spring-supported ceramic, description of, 22:53474(P)
configuration of cladding of, development for spacers of bulges in, 25:44218(P)
configuration of expansion-void-accommodating clad end-plug-sealed, description of, 22:42502(P)
configuration of fast neutron column, description of center-core concentric-cylinder-spaced ring-arranged, 23:15604(P)
configuration of Fort St. Vrain Power Reactor Unit 1 proof test, for Peach Bottom Power Reactor Unit 1, 23:4170(R) (GA-8270)
configuration of fuel-filled sphere-shaped moderator with cylindrical penetrating moderator plug, description of, 22:48786(P)
configuration of gas-cooled graphite-moderated reactor flow-diverting multiple interlocking-sleeve, description of on-load refueling, 22:53327(P)
configuration of graphite-clad magnesium-spaced graphite—uranium pellet-type, description of end-plug-sealed, 22:42532(P)
configuration of heat pipe-effect sealed liquid metal-cooled, 22:39940(P)
configuration of high temperature liquid metal-cooled reactor metal-clad liquid metal-bonded multiple wafer, description of, 22:42246(P)
configuration of high-oxidation alloy leak detector system for canned, 22:42546(P)
configuration of hook-connected longitudinal fin-cooled and -stabilized fast, description of, 22:42263(P)
configuration of interconnected multi-section combination control element and, description of, 22:44931(P)
configuration of Lingen Power Reactor Zircaloy 2-clad uranium oxide (UO$_2$) pellet-type, description of, 23:9113

configuration of metal-clad ceramic, description of metal-fuel wire in central void, 22:42554(P)
configuration of metal-spaced graphite- or ceramic-supported rod- or plate-type, description of, 22:42552(P)
configuration of multi-zone uranium-238 and thorium-232, 22:42486(P)
configuration of multiple integral longitudinal stiffening lugs with equal-internal lifting lugs for, description of, 22:42506(P)
configuration of multiple tube, with interconnected- and common-tube sheets for multi-pass fluid flow, 22:50874(P)
configuration of multiple vertical-stacked cylindrical core spring-braced pellet-type, description of clad end-plug-sealed, 22:42509(P)
configuration of multiple-fin dual-layer Magnox-sheathed uranium, description of gas-cooled reactor, 22:42545(P)
configuration of multiple-sided refractory material block with axially extending coolant holes and fuel chambers, 23:4480(P)
configuration of rocket reactor, description of tungsten-clad uranium oxide (UO_2)—tungsten-184 multiple plate, 22:50785(P)
configuration of SAP-enclosed liquid lead-insulated aluminum wire-gauge-spaced bar- or pellet-type, description of, 22:42488(P)
configuration of sealed cylindrical inner-body liquid fuel, description of, 23:7433(P)
configuration of stainless steel-clad helium-filled multi-zone ring-shaped uranium oxide (UO_2), description of, 22:42468(P)
configuration of stainless steel-clad helium-filled multi-zone ring-shaped uranium oxide, 22:42487(P)
configuration of superheating, description of variable volume gas-filled recesses for heat flux control in, 22:39830(P)
configuration of superheating, with prestressed coolant-pass tubes for improved fatigue life, 22:53483(P)
configuration of thin-wall corrugated stainless steel-enclosed insulated cylindrical, description of groove-positioning, 22:42544(P)
configuration of thin-wall-clad welded end-cap-closed cylindrical pellet-type, description of, 22:42499(P)
configuration of vertical-sheathed dual coaxial cylindrical varying-material, description of superheating reactor, 22:42275(P)
configuration of yttrium hydride dispersed coated-uranium oxide (UO_2) particles fuel—moderator, description of enamel coating on refractory metal-clad, 22:42556(P)
configuration of zirconium alloy-clad uranium alloy-insulated uranium, description of, 22:42487(P)
configuration of zirconium-containing liquid metal-insulated, description of multi-layer, 22:42463(P)
configuration with inner and outer sheathing walls and means to accommodate fuel swelling, description of, 23:9266(P)
container for failed, design of, 23:9689(P)
container for spent, design of self-closing, 23:13970(P)
containers for damaged, design of tight sealing, 22:49050(P)
contamination of reactors by, 21:43427
conveyer for, design of automated fluidic, 25:51845(P)
coolant axial flow with mixing in rod bundles, modified U-3 code for thermal-hydraulic, 21:2828 (ORNL-4016)
coolant channel for, ultrasonic system for measuring thickness of, 23:24493
coolant channel thickness of, ultrasonic system for measuring, 22:51276(R) (IDO-17269)
coolant channel-fuel containing-sheathed, description of combined, 22:42435(P)
coolant channel-width measurements on ETR, post-operation, 21:40675(R) (IN-1083)
coolant channels for fast, liquid sodium transient boiling effects in, 21:38493
coolant channels for heavy water-moderated, description of gas-insulated flow-restricting pressure tube-enclosed, 23:6010(P)
coolant channels in spiral-spacer-type fast breeder, coolant mixing studies for, 23:11239 (KFK-768)
coolant channels of 61-rod bundles of, MISTRAL computer program for calculation of temperature distribution in, 24:16770 (KFK-988)
coolant channels of, ultrasonic transducer for post-irradiation dimension measurements of, 22:30899
coolant conditions in assemblies of, effects of interchannel thermal mixing on, (E/T), 25:57031 (WCAP-7755)
coolant ejection from sodium cooled, bubble expansion during, (E), 23:52380(T) (EURFNR-628)
coolant erosion analysis of modified design for Piqua, 22:12031 (NAA-SR-Memo-12401)
coolant flow and enthalpy in subchannels of rod bundle, computer program for calculation of, 21:26045 (BNWL-371(Pt.1))
coolant flow and heat transfer in rod bundle, computer code development for, 25:18098(R) (BNWL-1522-1)
coolant flow around liquid sodium cooled triangular rod cluster assemblies of, 24:24819 (EURFNR-750)
coolant flow distribution during transients, TAMER computer code for analysis of, 21:14112 (GAMD-7397)
coolant flow in bundle arranged rod type, analysis of cross-flow resistance and diversion cross-flow mixing for, 25:41425
coolant flow in bundles of, analysis of pressure and temperature pulses from liquid sodium, (E), 24:43734 (EURFNR-784)
coolant flow in bundles of, calculation of heat transfer and pressure drop in two-phase, 24:19142
coolant flow in clusters of, hydrodynamic variables in laminar and turbulent isothermal, (T), 25:46259
coolant flow in hexagonal rod bundle type, (T), 25:12801
coolant flow in liquid metal cooled, effects of clad failure gas release on, 25:41433
coolant flow in parallel, analysis of turbulent, (T), 21:17496
coolant flow in rod type bundle, effects of spacer grid configurations on turbulent, (E/T), 25:28819 (EUR-4552)
coolant flow in water cooled nine rod assemblies of, effects of grid and spacer configurations on, (E), 25:28681(R) (GEAP-10221-6)
coolant flow in, effects of rod misalignment on, 21:8045(R) (LA-3625)
coolant flow in, pressure loss in turbulent, 21:12204
coolant flow mixing model for parallel-flow rod bundles of, two-dimensional turbulent-, 21:38757
coolant flow pressure drop in water cooled bundles of rod type, analysis of two phase, 25:41429
coolant flow pressure drop performance in bundle-type rod-shaped, analytic methods for, 23:21489
coolant flow pressure losses in liquid metal cooled wire wrapped bundles of, analysis of turbulent, 25:41428
coolant flow restraining support for, description of sonic venturi throat for downward pressure in gas, 22:25041(P)
coolant flow stability around wire-wrapped cylindrical rods, 21:19345 (APDA-181)
coolant flow stability in wire-wrapped, supported rod clusters, 21:19345 (APDA-181)
coolant flow testing through HWOCR, 21:23587(R) (AI-CE-31)
coolant flow through clusters of, method for control of, 25:28649(P)
coolant flow turbulence in, description of pressure tube rings to impart, 22:22786(P)
coolant flow velocity in assemblies of fast breeder, effects of deformation and spacing on turbulent, (T), 24:18652 (KFK-964, Sect. 5.1-12)
coolant for silicon dioxide—uranium dioxide, 23:36175
coolant gas flow mixing in parallel rods of, use of Freon for measuring axial, 22:1831
coolant in channels of, calculation of interchannel flow effects on, 21:40541(R) (BNWL-492)
coolant inlet for bundle type, description of pressure balanced upward flow, 24:26847(P)
coolant interchannel mixing in bundle-type rod-shaped, analytic methods for single-phase, 23:21488
coolant loss accident effects on fast, thermal analysis of liquid sodium, 22:53381
coolant loss accident effects on FFTF, analysis of hypothetical instantaneous, (T), 24:11265 (GEAP-10059)
coolant mixing in and behind gas cooled rod type, Freon simulation of, (E), 25:48265 (ZJE-103)
coolant mixing in assemblies of bundle arranged rod type, calculation of turbulent, (T), 24:20651
coolant mixing in bundle type, (E/T), 24:11184
coolant mixing in bundles of rod type, 25:41427
coolant mixing in FTR rod bundles, (T), 23:15675 (BNWL-SA-1688)
coolant mixing in liquid metal cooled bundles of rod type, 25:41537
coolant mixing in liquid metal cooled wire wrapped pin type, analysis of interchannel, 25:41426
coolant mixing in liquid sodium cooled bundle of pin type, simulation of interchannel, (T), 25:46270 (TID-25757)
coolant mixing in sub-assemblies of, phosphorus-32 tracer method for measurement of, 24:19158
coolant mixing in, methods of determining liquid metal, 21:7961
coolant pressure drop across sodium cooled, effects of spiral wire type spacers on, (E/T), 25:25989
coolant pressure drop in SEFOR bundles of, 21:13975 (GEAP-5129)
coolant pressure drop on rod bundles, single and two phase, (E/T), 24:47858
coolant pressure loss in liquid metal cooled spiral rib spaced 37 rod bundle assemblies, (E), 24:38545 (KFK-1038)
coolant purge-flow in 40-MW(e) prototype, testing of, 21:7867(R) (GA-7232)
coolant temperature distribution in bundles of rod type, effects of cladding on, 25:41430
coolant temperatures for Inconel-625-clad and stainless steel-clad, sodium, 21:42727 (KFK-586)
cooldown of Zircaloy-clad uranium oxide (UO_2)-core, effects of emergency coolant spray on, 22:27397 (ANL-7375, pp 135-59)
cooling apparatus for, during unloading from reactors, 22:18617(P)
cooling effects of gas flow on, operational and emergency, 21:42768
cooling fins for steam cooled, corrosion and deformation of Incoloy 800, (E), 24:18654 (KFK-1028)
cooling fins for tube type, effects of configuration on heat transfer of blunt edge, 24:24927
cooling fins for, method for profile measurement of steel, 24:5964
cooling in loss-of-coolant accidents, spray system for, (E), 21:2841
cooling in, fabrication of lattice structure for, 21:15800(P)
cooling of high-temperature tubular, flow analysis for liquid film, (E/T), 22:33146
cooling of hollow cylindrical, optimum geometry for efficient external and internal, 24:50514
cooling of pressurized water, description of core arrangement for optimum, 24:24846(P)
cooling of, by core spray system, 21:10145
cooling of, control of coolant flow in, 22:4333(P)
cooling of, design of surface evaporator for, 24:16784(P)
cooling of, feasibility studies on gas, 21:31902(R) (BNWL-367)
cooling of, liquid film behavior studies for emergency water, 24:44196
cooling sheath for uranium rod-type, machine design for automatic milling of, 22:27984(P)
cooling system for cluster arranged pin type, description of central sparge pipe emergency, 23:40476(P)
core configuration supports for, design testing of lateral, 21:40702
core materials for annular-pellet, 22:2697
core structure calculations using WIMS computer program, 22:5915 (AEEW-R-538)
core structure support for, design of, 21:46981(P)
core temperature of clad pin-type urania, in-pile measurement of, 21:14106 (CEA-R-3041)
corrosion behavior of defected Zircaloy-clad uranium silicide (U_3Si), in pressurized and boiling water coolants, (E), 22:47038 (AECL-3106)
corrosion by liquid sodium of stainless steel clad mixed oxide, 25:57109 (ANL-7771)
corrosion by sodium carbonate during pool storage, 24:36860 (CEA-N-1241, pp 121-52)
corrosion by steam at high temperatures, effects of Inconel 625 cladding on, 21:34860
corrosion by steam, determination using optical microscopes, 24:12364
corrosion by water of aluminum oxide—uranium, effects of silicon content on, 24:2977 (JEN-205-DMe/I-21)
corrosion by water of magnesium-clad uranium, effects of sodium carbonate on inhibition of, 23:43947
corrosion of aluminum- and magnesium-clad, by water, 21:14797
corrosion of aluminum-clad HFIR, by water at 200°C, 24:3048 (ORNL-4470, pp 94-111)
corrosion of clad urania, by high-temperature steam, 21:10216 (GEMP-61, pp 143-56)
corrosion of clad, in Big Rock Point reactor tests, 21:19359(R) (GEAP-5405)
corrosion of cladding materials for, by nonaqueous liquids, 22:773
corrosion of Garigliano Power Reactor, 21:38592
corrosion of magnesium-clad graphite matrix, effects of chlorides and pH on water-induced, 24:12363
corrosion of MTR-type, by demineralized water, 21:14885(R) (RISO-139)
corrosion of stainless steel-clad and Zircaloy-2-clad, by steam, 21:25935(R) (ANL-7225)
corrosion of Type 304 stainless steel-clad 7-rod clusters of, by flowing sodium at 1060°F, (E), 24:2875 (BNWL-1075)
corrosion of Zircaloy-2-clad uranium, by high temperature steam—water mixtures, 22:49690
corrosion resistance to water of nickel-plated aluminum-clad, 23:50989 (ORNL-TM-2642)
corrosion studies on irradiated, 22:28732 (CEA-N-816, pp 102-39)
corrosion testing of prototype twisted tape clusters, 22:9996(R) (EUR-3651)
corrosion tests on, 21:40580(R) (WAPD-MRP-121)
cost analysis in Canada for uranium oxide (UO_2) fabrication and operation, 25:53888 (A/CONF.49/P-156)
coupling configuration for multi-section tubular, description of outer-end spaced-slots and inner-end flange, 22:48770(P)
coupling device design for, automatic, 21:32044(P)
coupling mechanism for, design of, 21:5730(P)
coupling system for gas cooled power, description of rotation engaged lugs of tube and sleeve, 24:24838(P)
creep collapse testing of EVESR, 21:7877 (GEAP-4920)
creep deformation of Hastelloy X- and Type 316 stainless steel-clad, computer program for estimation of effects of time on, 23:51033 (GAMD-9623)
creep in liquid metal cooled stainless steel clad mixed oxide pin type, effects of burnup, cladding temperature, and fuel density on, 25:46269 (TID-25756)
creep in liquid metal cooled, development of equipment for in-pile measurement of, (E), 25:39255
creep in tubular clad, models for prediction of, 24:29465 (ANL-7630)
creep of heat treated magnox-clad, effects of air and carbon dioxide at 350 to 450°C on, 22:4786
creep ratchetting and thermal expansion of, relations with cladding temperature gradient, 23:41628
creep ratchetting of sealed, analysis of viscous, (T), 23:24045
creep testing of fast ceramic, 25:28689 (BMI-1898, Sect.C)
creep testing of uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:12795(R) (BMI-1893)
critical experiments on NUSU annular superheater, analysis of, 21:31905 (CEND-161)
critical experiments using plutonia—urania, 21:23711(R) (BNWL-340)
critical heat flux calculation for, boiling-water, 21:40636
critical heat flux for assemblies of bundle type, in pressurized water reactors, 24:24809 (BAW-10000)
critical heat flux for rod clusters and annuli, analysis of, (T), 22:33072
critical heat flux for water cooled rod type bundle arranged, analysis of 150 to 725 psia, (E/T), 24:43789 (IN-1412)
critical heat flux for water—steam cooled cluster arranged, 25:10215
critical heat flux in closely spaced lattices of pressurized water, model analysis of, (E), 23:26041 (WAPD-TM-466)
critical heat flux limits for CANDU-BLW-250, 21:40635
critical heat flux with parallel upflow of water in bundles of, (E), 25:12787
critical mass measurements for water moderated, enriched uranium, 21:38714
critical power in water-cooled rod-bundles of, effects of thermohydraulic and geometrical factors on, (E/T), 23:21478
critical studies for plutonium, 21:31903(R) (BNWL-CC-500)
criticality calculation methods for, for use in plutonium recycle, 21:38480

criticality calculations for, comparison of PRIZE code with TWODIG, PERSEUS, CALIF, ARGOSY, and WIMS codes for fine structure, 25:1787 (RD/B/N-1724)
criticality experiments with water-moderated plutonia—urania, 21:38481
criticality hazard of Texas A and M, in water flooded storage room, 24:2067 (DOCKET-50128-9)
criticality hazards control for ZPPR, description of, 23:4372
criticality measurements for uranium-235—graphite lattices in VERA at 50 to 500 keV neutron energy, 21:40671(R) (AWRE-R-4/63)
criticality measurements on Phoenix, 21:38719
criticality measurements on water-moderated uranium-233 and uranium-235 spherical, 22:33080
criticality of lattices of HTRE, 21:7895 (ORNL-TM-1566)
criticality of water-moderated pin-type clustered assemblies of uranium oxide (UO_2), comparison of computer calculations with measured, 23:4341
criticality of water-reflected enriched uranium, 21:12241
criticality studies on BORAX-5-type, 21:40668 (ANL-7270)
criticality studies on HFIR, 21:30259 (ORNL-TM-1808)
criticality studies on Hi-C-type, 21:40668 (ANL-7270)
criticality studies on Phoenix, 22:6115
criticality studies on plutonium recycle, 22:25008
criticality studies on polyethylene and water moderated plutonium oxide (PuO_2)—uranium oxide (UO_2), description of, 23:4369
crud formation on organic cooled, calculation method for insoluble, (E/T), 24:18648 (IAE-1833)
crushing of graphite-base, 22:14564 (ORNL-4139, pp 23-42)
cutting of coaxial, machine tools for, 22:4263(P)
cutting of irradiated, design of shears for, 25:54838(P)
cycle analysis for fast reactors, 22:3853
cycle analysis for SENA Reactor, 21:40695(R) (EURAEC-1886)
cycle costs for, effects of power plant loading changes on, 25:36893
cycle economics for water-moderated uranium oxide (UO_2), using stainless steel or Zircaloy cladding, 22:6017
cycle economics of advanced beryllia, 21:27669 (GA-6846)
cycle for AGR type reactors, reduced initial loading effects on economics of, 24:13559
cycle for clad ceramic- and metal-types, analysis of optimum extended-burnup dual, 23:15751(P)
cycle for high-temperature gas-cooled 1000 MW(e) power reactor, effects of thorium-232 fertile blanket on optimum, 23:21485 (ORNL-TM-2477)
cycle management for 1000 MW(e) high temperature gas cooled, calculation of optimum economic, 24:5501 (ORNL-TM-2704)
cycle management for 1000 MW(e) liquid sodium cooled fast breeder, calculations for optimum burnup, 24:22412
cycle management for 250 MW(e) prototype ORGEL Reactor, 23:21481 (EUR-4204)
cycle management for conceptual 1000 MW(e) Advanced Reactor and Reference Reactor plutonium carbide (PuC)—uranium carbide (UC), analysis of optimum economic, 23:21486 (WCAP-3791-11)
cycle management for gas cooled blanket, calculation of optimum economic, (T), 24:50093
cycle management for plutonium oxide (PuO_2), economics of, 25:23285(R) (NEDC-12152)
cycle management for power, computer program for optimum, 24:7014
cycle management for pressurized water power, analysis of optimum economic, 24:7140
cycle management in fast power reactors, FUMBLE code for calculation of, 25:23296 (GEAP-13599)
cycle management in pressurized water reactors, development of simulator and computer codes for, 25:53892 (A/CONF.49/P-278)
cycle management in U.S.S.R. for water cooled and moderated power, 24:18592
cycle management of plutonium, 24:1998 (EUR-4238)
cycle management of power reactor, effects of cross section uncertainties on economics of, 22:24973 (ORNL-TM-2157)
cycle management of sodium-cooled plutonium oxide (PuO_2)—uranium oxide (UO_2), economics of, 22:25083(R) (GEAP-5541)
cycle management of Weisweiler Power Reactor breeding blanket, review of physics studies for, (T), 24:22392
cycle management of, ASB computer program for, 24:20638 (KFK-1079)
cycles for Magnox-type, economics of, 21:14122
cycles of European fast reactors plutonium oxide (PuO_2)—uranium oxide (UO_2), development program for optimum, 22:35500
cylinder-type upper-end control rod and lower-end, description of center rod removal device for dual purpose, 22:37583(P)
damage of Fermi, 21:30094(R) (APDA-CFE-3)
damage of Fermi Fast Breeder, 21:30156 (NP-16750)
debris from, description for in-pile receptacle for, 25:12769(P)
decanning of, 22:45146 (NP-17588)
decanning of stainless steel-, nickel—chromium—iron-, or nickel—chromium-clad, metallic dissolution process for, 24:46328(P)
decanning of stainless steel-clad ceramic, fluidized-bed process for, 22:8169(R) (EURAEC-1934)
decanning of, apparatus and process for, 23:26344(P)
decanning of, apparatus for continuous chemical, 22:35902(P)
decanning of, chemical processes for, 22:40164 (KR-126, pp 54-73)
decanning of, decontamination of effluents from chemical, 25:8344(P)
decanning of, design of equipment for, 21:19831(P)
decanning of, method for, 23:35290(P)
decarburization of surface by electrolytic or chemical reactions, 21:39603(P)
decay heat of, clalculation of generation and removal rates for, (E/T), 24:18787 (CONF-690910-, pp 446-65)
decladding by hydrochlorination in gas-fluidized bed, 22:33539
decladding by rolling-straightener method, 24:2296
decladding of, 22:2173(R) (K-L-1780(Pt.21))
decladding of, 22:37825(T) (ANL-Trans-626, pp 36-58)
decladding of, 23:17509(T) (ANL-Trans-703, pp 45-84)
decladding of fast reactor, use of zinc for, 22:25442 (ANL-7375, pp 19-45)
decladding of Inchas, equipment and methods for mechanical, 25:34780 (UARAEE-54)
decladding of Inconel-, stainless steel-, and vanadium-clad, using azeotropic mixture of hydrofluoric acid and water, 25:51594
decladding of irradiated ceramic, apparatus and process for, 24:5735(P)
decladding of irradiated, method for, 22:51154(P)
decladding of irradiated, using high frequency ac, 22:10458(P)
decladding of LMFBR, by liquid metals, 24:44060 (ANL-7650, pp 1-14)
decladding of LMFBR, in molten zinc, 25:2306(R) (ANL-7735)
decladding of nonirradiated stainless steel-clad oxide, chemical, 24:41383 (BLG-435)
decladding of spent uranium, by immersion in 8 to 11N nitric acid, 24:9626(P)
decladding of spent, apparatus for, 24:19064(P)
decladding of stainless steel- or Zircaloy-clad oxide, 21:43042(P)
decladding of stainless steel-clad ceramic, 22:33528
decladding of stainless steel-clad oxide, thermal method for, 23:21802
decladding of stainless steel-clad oxide, thermal method for, 23:38080
decladding of stainless steel-clad oxide, using zinc, 24:50439(R) (ANL-7675)
decladding of stainless steel-clad plutonium dioxide—uranium dioxide, use of liquid metals in, 23:13807(T) (ANL-Trans-707)
decladding of stainless steel-clad spent, using hydrogen fluoride—oxygen mixtures, effects of temperature on, 25:54747
decladding of stainless steel-clad, thermal processes for, 22:149
decladding of uranium, by electrolytic dissolution in nitric acid, 23:9525(P)
decladding of uranium, electrolytic method for, 25:49396(P)
decladding of Zircaloy-clad, 22:12405 (ORNL-4094, pp 50-60)
decladding of zirconium-clad, 21:3157(P)
decladding of, device for, 22:10462(P)
decladding of, device for, 22:10463(P)
decladding of, device for, 23:35309(P)
decladding of, device for, 23:35308(P)
decladding of, electrolytic method for, 23:31459(P)
decladding of, equipment and methods for safe, 24:31558
decladding of, fusion process for, 22:33528
decladding of, mercury dissolution process for, 22:4267(P)
decladding of, method for discontinuous pyrometallurgic, 23:17509(T) (ANL-Trans-703, pp 45-84)
decladding of, methods for thermal, 23:40791(T) (ANL-Trans-751)
decladding of, potentiometric determination of fluorine in solutions from, 23:24284
decladding of, progress at Eurochemic on chemical, 23:40850
decladding of, research progress on chemical, 22:27852(R) (EURAEC-2011)
decladding of, separation of fissile materials from nitric acid solutions from, 24:44077(P)
decladding of, thermal melting method for, 24:4354(P)
decladding of, use of hydrogen fluoride—oxygen mixture in, 22:40156(R) (EURAEC-2031)
decladding processes for fast breeder, liquid-metal, 24:5726
decladding using nitrogen and nitrous oxide, 24:11682
decomposition of spherical, by bromine vapor, study of chemical, 24:2281
decontamination of, by solvent extraction, 21:14309
defect behavior of vibrationally compacted plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of specific power and burnup on, 23:31236(R) (BNWL-1039)
defect detection in, electron paramagnetic resonance spectrometer for, 21:32048(P)
defects in natural uranium, neutron radiographic method for detection of, 23:26489
defects in spherical graphitic, ultrasonic testing for size and position of, 25:44563 (EUR-4341)
defects of, determination by ultrasonics, 22:23236 (INR-856/XIV/PS)
deflection in graphite moderated reactor, effects of creep on, 22:220
deflection under expansion, hydraulic loads, and thermal loads, computer program for, 21:15787 (WAPD-TM-312(Add.1))
deflectors for coolant flow in boiling reactor, description of parallel helical-twisted strip-shaped, 23:15617(P)
deformation during in-pile irradiation, microwave system for measuring, 23:17816 (CEA-CONF-1117)
deformation during in-pile irradiation, microwave system for measuring, 23:41090(T) (BNWL-tr-37)
deformation during temperature transients, computer program for calculation of, 25:45038
deformation during thermal neutron irradiation, dilatometer for measurement of, 25:15965 (UJV-2490-R-A)
deformation during transients, computer program for analysis of, 21:40537 (ANL-7349, pp 115-33)
deformation in assemblies, device for measuring, 22:1888
deformation in ATR, effects of 200 to 600°F thermal testing on, 21:46943(R) (IN-1117)
deformation in cylindrical, computer program for measurement of steady-state, 22:25125 (BNWL-663)
deformation of composite uranium aluminide and uranium oxide, 23:8273 (ORNL-4370, pp 101-15)
deformation of fast reactor, effects on coolant turbulence, flow velocity, and temperature distribution of, (T), 24:18652 (KFK-964, Sect. 5.1-12)
deformation of fast, analysis of, 22:32735 (ANL-7310, pp 249-375)
deformation of fast, evaluation of model for prediction of, (E/T), 24:38551
deformation of HFIR, by temperature and pressure differentials, (E), 23:6025 (ORNL-TM-2325)
deformation of hollow cylindrical, computer program for calculation of, 25:44987 (AECL-3901)
deformation of liquid sodium cooled fast, effects on kinetics, 24:18650 (KFK-964, Sect. 3.1-15)
deformation of metal clad oxide, CYGRO-3 code for analysis of in-pile, 25:51101
deformation of mixed oxide water cooled breeder, CYGRO-3 computer program for, 24:36032 (WAPD-TM-961)
deformation of Na-1, effects on reactivity of, 22:53278 (KFK-539/3)
deformation of Na-2 type, effects of sodium vapor condensation on, (E/T), 24:9093 (NP-18060)
deformation of rod, development of strain gages for measuring, 21:8640(R) (IDO-17211)
deformation of SPERT 3 E-core Type 348 stainless steel-clad uranium oxide (UO_2) pellet-type rod-shaped, effects of operating conditions on, 23:17252 (IDO-17291)
deformation of SPERT 4 CDC Type 304 stainless steel-clad uranium oxide (UO_2) F-type, 23:17252 (IDO-17291)
deformation of UCLA Educator, effects of seismic stresses on, (E), 24:5552
deformation of uranium oxide (UO_2), effects of transients on, (E/T), 24:47877 (ANL-7610, pp 259-367)
deformation of water cooled metal clad cylinder shaped uranium oxide (UO_2) pellet filled, effects of power transients on, (E/T), 24:20569 (WAPD-TM-652)
deformation of Zircaloy clad, effects on coolant channel reduction of, 24:33370
deformation of, computer program for time dependent finite element analysis of, 25:44126 (WERL-ELPLA-1)
deformation of, device for detection and measurement of, 23:36114(P)
deformation of, fast neutron radiation and thermal effects on, 24:52958 (BNWL-1430)
degasification of NERVA, measurements of, 25:38011
degasification rates for, computer program for calculation of, 25:19195 (ORNL-TM-3220)
density and profile of irradiated pellet—type, equipment for remote measurement of, 24:16737 (CONF-690910-, pp 413-19)
density effects on fuel temperature in, 22:22699 (HPR-80)
density measurement of, gamma radiometric densimeter for axial, 24:25319 (RISO-209)
density measurements in hot cells, development of vacuum pycnometer using mercury for bulk, 21:14499 (ORNL-TM-1743)
density measurements of porous pellet, development of vacuum pycnometer for, 24:5956
density of aluminum—uranium oxide dispersion-type, radiographic determination of, 24:4829 (ORNL-4440, pp 192-215)
density of dispersion-core, radiographic determination of, 23:48504 (ORNL-4420, pp 222-40)
density of irradiated cylindrical pin-type, gamma densitometry equipment and method for determining, 25:52440 (RT/ING-(71)6)
density of irradiated, gamma attenuation method determination of, 24:16809 (RT/ING-(69)10)
density of plutonium dioxide—uranium dioxide, control of, 22:4860
depletion of Zircaloy-clad urania, calculations for LOFT using TURBO code, 21:27681 (IDO-17236)
deposition of crud on water cooled, critical heat flux and pressure drop effects from, (E), 25:8070 (WAPD-TM-918)
deposits on magnox fuel element surfaces, analysis of, 21:27718
deposits on, thermocouple for jacket and coolant temperature comparison to determine, 23:4481(P)
description for water-cooled reactors with coolant deflecting grid and peripheral flow channels, 22:20890(P)
description of annular, with magnesium alloy-clad outer surface and zirconium alloy-clad inner surface, 22:42264(P)
description of arrangement of, 22:6093 (EURFNR-401)
description of axially twisted multi-plate square tubular, with side and end support-plates, 22:14353(P)
description of boiling reactor flow tube spray and seal device for, 22:20889(P)
description of boiling water and steam cooled, 22:20953(P)
description of breeder, 21:23634
description of clad cylindrical multiple uranium carbide (UC)—based pellets for, 22:25067(P)
description of coated particle-type, for Fort St. Vrain Reactor, 21:38449(R) (GA-6950)
description of coated shaped, 22:42429(P)
description of cylindrically-canned coated-particle, 22:42452(P)
description of double-plate vertical-motion swimming pool reactor assembly of, containing control elements, 22:12137(P)
description of EDF-2, 23:1987
description of end-coupled rod-type, 22:42445(P)

description of fast liquid metal-cooled reactor pin-type, with helix-shaped coolant duct in tubular-shaped bundle, 23:11241(P)
description of fast liquid metal-cooled reactor tubular-shaped bundle-arranged multiple-chamber pin-type, 23:11242(P)
description of fast reactor insulated creep-resistant sheath-enclosed ceramic, 23:9164(P)
description of finned tubular uranium, with corrugated inner cladding, 22:14217(P)
description of fission-product-ionizing fuel-coated-electrode thermionic, 23:40495(P)
description of fixed multiple-section spring-supported, 22:37576(P)
description of fuel-disc type, having improved heat transfer characteristics, 22:42462(P)
description of fuel-graphite dispersion having improved heat transfer characteristics, 22:42433(P)
description of gas-cooled high-temperature Zircaloy-clad annular-shaped, using multiple coated polyhedral-shaped particles, 23:9162(P)
description of GATL 4 and PLUTO helium-cooled graphite-moderated thorium carbide (ThC$_2$)—uranium carbide (UC$_2$) tube-type, 23:19525 (GA-9093)
description of granular fueled, for liquid metal cooled reactor, 22:33121(P)
description of graphite moderated liquid sphere, 22:20882(P)
description of grooved multiple cylindrical pellets vertically stacked and keyed with tubular internal-finned can in pin-type, 23:9258(P)
description of HIFAR, 21:46949
description of high-temperature high-pressure fast, 22:42240(P)
description of hollow tubular body surface coated, with gas-filled insulating spaces on inner surface, 22:25161(P)
description of independent-motion multiple fuel assembly, 22:14357(P)
description of initially poisoned, for safety in fabrication and reactor operation, 22:22886(P)
description of internally and externally clad tubular, with flared end section and annular plug, 22:18631(P)
description of joined multi-plate coaxial tube, with brace extensions and coolant flow control ring, 22:14275(P)
description of liquid metal cooled and fast, 22:7792 (BNWL-477)
description of liquid metal-cooled fast breeder power reactor vented, 23:19514 (ORNL-NSIC-37)
description of liquid metal-cooled tube-and-shell heat exchanger pebble-bed fast breeder reactor, 22:35490(P)
description of liquid sodium-cooled rod-shaped vented annular fast, 23:9163(P)
description of liquid-cooled, using coiled capillary vent tube for gaseous fission products, 22:25159(P)
description of metal clad tube shaped, with central graphite rod and metal end caps, 24:22515(P)
description of metal-clad ceramic fast, with zoned fuel arrangement to reduce effects of irradiation-induced swelling, 23:9244(P)
description of metallic container with thermal insulating gap between fuel and container for rod-type, 22:42432(P)
description of multi-assembly independent motion, 22:14357(P)
description of multiple cartridge-type for gas-cooled reactor, with moderator jacket and coolant duct, 22:16239(P)
description of multiple decreasing-diameter cylindrical fuel rod, in concentric circle configuration, 23:19585(P)
description of multiple parallel sealed plate, with coolant transfer holes and leak testing grooves, 22:30397(P)
description of multiple pellet ceramic-filled metal-clad cermet-cylinder, 22:39834(P)
description of multiple split-ring coolant flow diverters, for safety of boiling water reactors, 23:2045(P)
description of multiple submerged superheating reactor bar-type, 22:42248(P)
description of notched helical fin, 22:14347(P)
description of pivoting-hinge-supported multiple parallel sheathed plate-type, for swimming pool reactors, 23:9219(P)
description of porous hollow cylindrical, with means for radial diffusion of liquid coolant, 23:9256(P)
description of porous, for improved heat exchange, 22:18613(P)
description of rod shaped vibration compacted carbon matrix, 23:40491(P)
description of sectioned, for minimum coolant flow variation during unloading of gas-cooled reactor, 22:3875(P)
description of sheath-enclosed multi-sections male-and-female-coupled, 22:42412(P)
description of sheathed stacked-pellet type, 22:42438(P)
description of sheathed uranium carbide (UC), 22:18632(P)
description of sheathed, for graphite-moderated, natural uranium fueled, gas-cooled reactors, 22:18619(P)
description of slotted cylindrical, 22:42443(P)
description of spherical moderator-integrated, 22:42496(P)
description of square lattice assemblies of rod, with top and bottom rod connections for control, 22:3959(P)
description of stacked rod-type, 22:42450(P)
description of stainless steel clad magnesium sheathed uranium slug, 22:22888(P)
description of stainless steel clad uranium dioxide, for AGR-type reactors, 22:6061
description of star-shaped or triangular Vapotron-type, with graphite fins, 22:6188(P)
description of swimming-pool pulsed reactor sealed cylindrical graphite reflected nitrogen insulated, 23:23982(P)
description of thermionic, with means for prevention of emitter electrode distortion, 22:44844(P)
description of tubular, with herringbone-pattern fins over inner surface, 22:3952(P)
description of tungsten-clad uranium oxide (UO$_2$)—tungsten-184, for nuclear rocket, 22:42349(P)
description of uranium-base, 23:22553(P)
description of uranium-base, for use in gas cooled reactors, 23:22550(P)
description of Vapotron-type, for burnout prevention in pressurized water coolant, 22:6190(P)
description of Vapotron-type, with uranium dioxide fuel and beryllium oxide fins, 22:6189(P)
description of vented, 22:33112(P)
description of water-cooled multi-concentric tubes of enriched uranium rod, 22:14226(P)
description of water-cooled reactor on-power loading short concentric cylinder-shaped, 23:19584(P)
description of zirconium clad uranium oxide (UO$_2$), 22:3808 (AECL-2928)
description of ZPPR, 21:31898(R) (ANL-7329)
description of, using dysprosium or europium burnable poisons, 22:1900(P)
description with central strengthening bar and end cap allowing stacking, 22:42520(P)
description with end surface configuration to ensure correct position in coolant channel, 22:42516(P)
description with four bands of helical cooling fins for contacting adjacent elements in side by side arrangement, 22:42515(P)
description with grooved fuel rod to prevent fuel growth from fission gas trapping, 22:42519(P)
description with helical cooling fins containing longitudinal baffles, 22:42517(P)
description with internal spacers for separating fuel and sheath, 22:42521(P)
description with two coaxial tubes of fuel material separated by an insulating layer, 22:42525(P)
design of ceramic, for organic cooled and moderated reactors, 22:49822
design allowing for radial expansion with good heat transfer from fuel to cladding, 21:25751(P)
design analyses for CIRENE metal and oxide, preliminary mechanical, 24:4057 (CISE-R-117)
design and development for HWOCR, 21:42724(R) (AI-CE-56)
design and development for superheaters, 21:7944
design and development of ceramic, for fast reactors, 21:23659
design and economics of operation in Peach Bottom Power Reactor, 21:40640
design and evaluation of aluminum—uranium oxide dispersion-type, 24:44762 (ORNL-4560, pp 218-34)
design and evaluation of VBWR experimental, summary report on, 21:12142(R) (GEAP-5087)
design and fabrication for optimum operating life and specific power, 21:42741
design and fabrication of, 22:10479(P)
design and fabrication of assemblies of Zircaloy-2-clad uranium dioxide, for irradiation testing, 24:14970
design and fabrication of capsule-type, for in-pile testing in ETR and TREAT, 24:2982 (ORNL-4470, pp 127-40)
design and fabrication of composite pellet, with zirconium carbide fission product barriers, 21:38791(P)
design and fabrication of cylindrical graphite pin, 21:38801(P)
design and fabrication of Dragon, for coolant flow and physics testing, 24:41569 (DP-Report-281)
design and fabrication of interior reinforced tube, 21:38806(P)
design and fabrication of plutonia—urania rods for EBWR, specifications for, 21:44821 (BNWL-SA-1139(Rev.A))
design and fabrication of plutonium carbide—uranium carbide, for fast breeders, 21:7899 (UNC-5137)
design and fabrication of plutonium—uranium monocarbide, 21:45977(R) (WCAP-3791-8)
design and fabrication of plutonium-bearing, for Zero Power Reactor, (E), 22:15153 (ANL-7313)
design and fabrication of sodium-bonded carbide pin-type, 24:1103 (WARD-3791-16)
design and fabrication of stainless steel—urania dispersion, 21:40672 (BMI-X-10200)
design and fabrication of thorium dioxide—uranium dioxide, for Kilorod Facility, 22:49798
design and fabrication of tube, 21:38813(P)
design and fabrication of uranium, at CNEN, 23:51010
design and manufacture of plates for, use of computer for, 21:16040 (AEEW-M-699)
design and performance characteristics of high power density, 22:42283
design and performance of fission—electric cell, 21:5108 (JPL-TR-32-981)
design and performance of manifolded and vented rod-type, for gas-cooled fast breeder reactors, 25:47107
design and performance of TARGET advanced, 21:12131 (GAMD-4214)
design and performance of, for HTGR, 21:2825 (GA-7183)
design and performance of, using hollow uranium dioxide spheres, 21:6868(P)
design and production of, for HDR, 21:5634
design and properties of, 21:2905(P)
design and properties of ceramic, 22:19646
design and testing for Bonus advanced core, 21:19348(R) (CEND-265)
design and use of urania, for physics measurements in water-moderated lattice cores, 21:25712(R) (BAW-3647-3)
design characteristics of cluster arranged cylinder type, for water cooled pressure tube reactors, 25:37025(P)
design characteristics of clusters of intermixed helical fin and plain rod, 25:57198(P)
design characteristics of helical rib spaced cylinder clad rod type, for fast breeder reactors, 25:37027(P)
design characteristics of pressure tube type, 25:37148(P)
design characteristics of SPERT 4 CDC Zircaloy 2-clad uranium oxide (UO$_2$) pellet-type rod-shaped SPX, 23:17254(R) (IDO-17294)
design considerations for, survey of, 22:33092 (KFK-700(Pt. I))
design considerations for, survey of, 22:53273(T) (EURFNR-472)
design containing rotatable cylindrical elements for variation of spacing, 21:46918(P)
design criteria and drawings for SEFOR instrumented, 23:26047 (GEAP-5615)
design criteria for optimum economic power density in boiling and pressurized-water reactor, 23:28491
design criteria for stainless steel-clad ceramic pin-type, for 1000 MW(e) breeder reactor, 25:58410 (BLG-456)
design data for steam cooled fast breeder, 23:23916
design feasibility of vented, in fast gas-cooled reactors, 21:21919 (ORNL-4076, pp 81-115)
design for 1000 MW(e) metal-fueled fast breeder reactors, 21:5596 (ANL-7001)
design for 9 x 9 core for Saxton Power Reactor, 21:46867 (WCAP-3269-59)
design for breeder reactors incorporating fertile material in graphite matrix, 24:2352(P)
design for clustered elongated pin-type, 22:12156(P)
design for columnar detachably coupled, 22:1904(P)
design for containment of fission gases, 22:37918(P)
design for dual-purpose power-desalination HWOCR, economic evaluation of conceptual, 23:21537 (AI-CE-Memo-59)
design for FFTF, 21:27797 (BNWL-SA-1066-S)
design for Fort St. Vrain Power Reactor, 21:38451(R) (GA-7314)
design for French power reactors, 21:27726
design for gas-cooled reactors, basic factors in development of, 22:6044
design for heat transfer improvement by fins and undulated walls, 21:38623(P)
design for heavy water moderated reactors, 21:34179(P)
design for heavy water-moderated pressure tube reactors, 21:19442(P)
design for heavy water-moderated reactor, 22:14632(P)
design for high temperature gas cooled reactors, 24:18674(R) (NP-18148)
design for high-temperature gas-cooled reactors, 21:27843(P)
design for high-temperature, gas-cooled reactors, 21:35640(P)
design for improved cooling, 22:8289(P)
design for improved cooling, 22:8289(P)
design for improved heat-transfer, 21:15812(P)
design for incorporation in solid moderators, 21:30222(P)
design for increased burnout heat flux, 21:43189(P)
design for increased thermal flux, 22:8284(P)
design for increased thermal flux in neutron beam experiments, 22:8284(P)
design for Japanese 1000 MWe fast breeder reactors, 23:10271
design for liquid metal cooled reactors, 21:40579 (UCID-15192)
design for liquid metal-cooled fast reactors, 21:44908(P)
design for low-power reactor or critical assembly, 22:10479(P)
design for Marviken Reactor, review of, 21:42765
design for PM-type cores, 21:17450 (HIT-3583-43(Vol.1))
design for power increase in French SILOE reactor, 21:21766 (NP-16497)
design for power reactors, 21:27781(P)
design for pressure-tube reactor, 21:25698(P)
design for prevention of plutonium diffusion through cladding, 21:21819(P)
design for PRTR rupture testing facility, 21:8040 (HW-63863)
design for regulation of coolant flow in, 21:46977(P)
design for Shippingport Core 2 Seed 2, 21:27695(R) (WAPD-MRP-120)
design for thermal reactors, 21:27780(P)
design for UK power reactors, trends in, 21:10171
design for uranium—plutonium carbide fast breeder, 22:53368
design for zoned fast reactor cores, 21:7909
design having sheath of anticlastic form, 22:14341(P)
design having sheath with fins for good heat transfer properties, 21:25753(P)
design in Yugoslavia, Zircaloy-2 clad sintered urania, 21:34117
design limits for sodium cooled fast breeder, review of, 24:46046 (WARD-4135-6)
design modification of DIDO, for thermocouple incorporation, 21:8033 (AERE-M-1040)
design modifications for gas cooled graphite moderated power, in France, 25:3877
design of, 21:2911(P)
design of, 21:5710(P)
design of, 21:44964(P)
design of, 21:27710
design of 19-rod cluster Zircaloy clad PRTR, engineering drawings for, 23:11705
design of 217-pin grid-type, for FFTF and LMFBR, 24:46773(R) (WARD-4135-8)
design of advanced beryllia, 21:27669 (GA-6846)
design of advanced spherical beryllia, 21:38448 (GA-6836)
design of AFNETR plate-type, with chromelalumel thermocouples, 21:35740
design of annular ceramic, with maximum heat flux, derivation of optimum, 24:36959
design of assemblies of bundles of spaced rod, for steam cooled fast reactors, 25:28695(P)
design of assemblies of pencil type, 25:23288(P)
design of assemblies with radially varying plutonium and uranium contents, 25:60247(P)
design of Atomics International conceptual 1000 MW(e) LMFBR, 24:18580 (AI-AEC-12792(Vol.4))

design of bar shaped and tubular ceramic, with varying enrichment regions, 21:38777(P)
design of beryllium oxide clad dispersion type, 23:34070(P)
design of beryllium oxide—zirconium oxide-matrix, for high-temperature reactors, 21:8178(P)
design of boiling water instrumented, specifications for flowmeters, pressure gages, thermocouples, and fission chambers for, 23:25996 (GEAP-4750)
design of boiling water reactor, 25:15212
design of canned solid-fuel-type, with powder heat transfer agent, 21:19425(P)
design of ceramic dispersion type, 21:43651
design of ceramic, for gas-cooled reactors, 22:12508(P)
design of ceramic, plated with molybdenum and nickel, 21:38779(P)
design of ceramic, with corrosion resistant interlayer between fuel core and metal jacket, 21:38778(P)
design of ceramic, with plutonium enrichment for water-cooled fast reactor, 21:38620(P)
design of ceramic- or metallic-canned rod and sheet, 21:25748(P)
design of ceramic-coated, for high-temperature gas-cooled reactors, 22:14659(P)
design of ceramic-dispersed, highly or moderately enriched, for high temperature reactors, 23:51043
design of cermet plate-type, for irradiation testing in HFIR, 25:8956 (ORNL-4600, pp 235-48)
design of circular, with longitudinal and transverse coolant flow, 21:19507(P)
design of clad carbide rod-type, for in-pile operation at 45 kW/ft, 25:4889(R) (UNC-5263)
design of clad ceramic, incorporating coated fuel particles under helium pressure, 24:2995(P)
design of clad tubular, incorporating boron in canning material, 23:16519(P)
design of clad, spring-loaded, stacked, 21:46979(P)
design of cluster type, 22:8283(P)
design of cluster type assemblies, 22:8283(P)
design of cluster type, with ceramic clad pins, 24:47979(P)
design of cluster type, with means to prevent melting of fuel during transients, 25:18249(P)
design of cluster-type, 21:19423(P)
design of clustered, effects of Zircaloy-2 cladding surface irregularities on deformation in, 21:46913(P)
design of clustered, for gas cooled reactors, 21:44895(P)
design of clustered-rod, 21:23774(P)
design of coated compacted particles in a cladding tube, 21:38785(P)
design of concentric multiple-cylinder, 23:28636(P)
design of cone and cup coupling device for elongated stacked, 21:5665(P)
design of coolant channel forming, 21:10229(P)
design of coupling device for stacked assemblies of, for gas-cooled reactors, 21:5654(P)
design of cruciform assemblies of parallel fuel rods, 22:18629(P)
design of cylindrical, 21:38775(P)
design of cylindrical, 21:44909(P)
design of cylindrical rotary, for breeder reactors, 21:2854(P)
design of cylindrical, with helical cooling fins, 21:38804(P)
design of cylindrical, with helical cooling fins, 21:38810(P)
design of disk-type, effects of thermoelastic properties on, 21:23756
design of dispersion plate-type, for improved fuel-bearing phase, 25:49386(P)
design of double zirconium clad uranium alloy, for steam cooled reactors, 24:26778(P)
design of doubly canned, for water-cooled reactors, 22:12513(P)
design of Dragon, with fuel rings in a graphite sleeve, 21:38624(P)
design of EBR-2 subassemblies, 21:40526 (ANL-7290, pp 9-27)
design of electrically-heated, for out-of-pile critical heat flux tests, 24:46416(R) (GEAP-10196)
design of elongated tubular cladded, comprised of fuel compacts between small diameter movable discs, 25:24548(P)
design of elongated, for heavy water pressurized reactors, 21:19435(P)
design of encapsulated, 23:981(P)
design of encapsulated ceramic, for instrumented tests in TREAT, 24:44760 (ORNL-4560, pp 3-38)
design of end connected multiple section graphite sleeve cluster type, for gas cooled graphite moderated reactors, 24:26780(P)
design of end-engaging, to eliminate adhesion, 21:8170(P)
design of expandable, 21:4421(P)
design of fast, development of models for, 25:39251 (A/CONF.49/P-838)
design of fast, effects of irradiated-materials properties on optimization of, 21:38553
design of finned clad,, 21:46982(P)
design of finned cylindrical, for heat transfer improvement and rigidity, 21:38794(P)
design of finned cylindrical, for improved rigidity under pressurized coolant flow, 21:38795(P)
design of finned gas cooled, for uniform temperature distribution, 25:25990(P)
design of finned gas cooled, with annular graphite centering sheath, 25:23291(P)
design of finned Magnox-clad uranium-235-enriched, 25:27267 (UJV-2371.R,T.)
design of finned sheathed, 21:5663(P)
design of finned tube, with baffles in fin channels, 21:44965(P)
design of finned tubular, for improved heat exchange, 21:10520(P)
design of finned, for improved heat transfer, 21:19512(P)
design of finned-clad, for columnar stacking, 21:46984(P)
design of finned-clad, for engagement by loading machine, 21:46983(P)
design of fission gas vented, for liquid sodium cooled reactors, 23:52359(P)
design of fission product-retaining, 21:4392(P)
design of flexible, to allow deformation without fracture, 22:1898(P)
design of Fort St. Vrain, 21:38447(R) (GA-6830)
design of FTR, parameters and drawings for, 23:31193(R) (BNWL-567)
design of fuel module, 21:4398(P)
design of gas cooled vented pin type bundle, 25:28694(P)
design of gas cooled, for upward flow, 24:24837(P)
design of gas cooled, with means for prevention of vibrations, 25:60084(P)
design of gas-cooled, thermal aspects of, 21:34106 (GA-7941)
design of gas-cooled, with heat-insulating and vibration-absorbing material, 21:19439(P)
design of gas-cooled, with improved heat transfer characteristics, 21:38793(P)
design of Geesthacht Power, analysis of, 23:28367
design of graphite and magnesium chromate coated, to prevent plutonium diffusion, 21:38786(P)
design of graphite clad prismatic, effects of materials properties and operating conditions on, 24:50110 (CONF-700401-, pp 474-93)
design of graphite jacketed, for high temperature gas-cooled reactor, 21:38622(P)
design of graphite jacketed, for high temperature gas-cooled reactor, 21:38621(P)
design of graphite-supported, incorporating spacers, 23:36195(P)
design of grid-type subassemblies for, incorporating mixed oxide pins, 24:46773(R) (WARD-4135-8)
design of grid-type, for LMFBR, 25:32776(R) (WARD-4135-13)
design of grooved, for gas or high pressure steam cooled reactors, 21:46927(P)
design of ground rod, for improved heat transfer properties, 21:46991(P)
design of helical finned, for improved heat transfer, 21:38788(P)
design of helium-bonded plutonium carbide—uranium carbide pins, 21:8145
design of herringbone surface, for improved heat transfer, for Calder Hall Reactors, 21:38593
design of hexagonal, for pressurized-water reactor, 21:42786(P)
design of high power Zircaloy-sheathed urania, rod-type, 21:44812 (AECL-2945)
design of high temperature gas cooled reactors, 24:31065 (CONF-700502-, pp 31-48)
design of high thermal conductivity, 23:48362(P)
design of high-performance urania for pulsed water-moderated reactor, 21:25621 (CONF-670501-3)
design of high-performance Zircaloy-2-clad uranium dioxide, 21:31936(R) (GEAP-5431)
design of highly enriched, metallic-dispersed, for high flux research and submarine propulsion reactors, 23:51043
design of HTGR type, for irradiation testing, 24:43697(R) (GA-10088)
design of improved ceramic fuel pellets for use with rod-type, 22:2686(P)
design of improved, for superheat reactors, 22:12516(P)
design of improved, for water-cooled or liquid-metal cooled reactors, 21:34177(P)
design of improved, having higher loading and thermal conductivity, 22:45808(P)
design of instrumented, for heat transfer studies, 21:15664(R) (WCAP-3696-2)
design of instrumented, for PRO Reactor core measurements, 21:21707
design of instrumented, for Saxton reactivity tests, 21:17475(R) (WCAP-3696-1)
design of interchangeable, between light water and heavy water reactor, 24:35945(P)
design of layered, for corrosion resistance, 21:32042(P)
design of liquid metal cooled, with porous plugs for fission gas venting, 24:50250(P)
design of liquid-cooled, 21:5727(P)
design of LOFT, with Zircaloy-clad fuel pins, 21:34157 (IDO-17219)
design of longitudinally finned heavy water-moderated gas-cooled, optimal, 22:16320 (UJV-1840)
design of longitudinally rotating, 21:5712(P)
design of low-enrichment superheater, 21:30282 (ACNP-67516)
design of Magnox canned, to prevent plutonium diffusion, 21:38787(P)
design of Mark-II driver-type, 24:25632 (ANL-7417, pp 3-22)
design of mechanically assembled uranium-235 enriched MTR, engineering drawings for, 21:14373
design of metal sheathed, with means for fission gas removal, 25:20843(P)
design of metal-clad ceramic, 21:23770(P)
design of metal-clad ceramic, 21:40715(P)
design of metal-sheathed ceramic, with insulating interlayers to thermally induce voids for fuel expansion, 23:16478(P)
design of metallic-reinforced ceramic, 21:11289(P)
design of mixed oxide, 22:43663
design of mixed oxide pin-type, incorporating fuel motion restrictors, 24:46773(R) (WARD-4135-8)
design of mixed oxide, mechanical, nuclear, and thermal, 24:46773(R) (WARD-4135-8)
design of moveable fuel and blanket, for fast breeder reactors, 25:1862(P)
design of NSA-1 type, for in-pile testing, 24:17360(R) (WARD-4135-1)
design of oxide pin-type, for in-pile radiation testing of grid-type assemblies, 24:23506(R) (WARD-4135-4)
design of packed bed pyrolytic carbon coated particles in resin filler, 25:28826(P)
design of parallel rod assembly-type, 22:14340(P)
design of pellet-filled, incorporating interstitial helium, 21:17548(P)
design of Phoenix, 22:14289 (BNWL-635)
design of pin-type for fast breeder reactors, reliability margin analysis for, 22:32837
design of pin-type, incorporating spacers to compartment fuel column, 23:24872(R) (WARD-3791-32)
design of plate and rod configuration, 21:25749(P)
design of plate-type, 21:30308(P)
design of plate-type, for additional stability, 21:38790(P)
design of plate-type, for improved heat transfer, 21:15805(P)
design of plate-type, for research reactors, 21:19494(P)
design of plutonia—urania, for Fast Flux Test Facility, 21:38697
design of plutonium dioxide—uranium dioxide loaded, for irradiation in HBWR, 23:18259(R) (PNCT-AR-67)
design of power reactor, problems and requirements for standardization of, 24:18607
design of power, mechanical and thermal data for, 25:51095 (JAERI-12704)
design of pressure tube, 21:44905(P)
design of PRTR, effects on fretting corrosion in Zircaloy-2 pressure tubes, 23:16460 (BNWL-746, pp 9.1-5)
design of rectangular plate-type, with internal control plates, 21:12269(P)
design of refractory, incorporating a solid moderator, 22:21714(P)
design of ribbed-clad superheating, for EVESR Mark-5 core, 22:3930 (GEAP-5408)
design of rod-type bulk oxide, computer program for, 21:28864 (WAPD-TM-583(Add.1))
design of rod-type, incorporating metal rings inserted between pellets, 22:53482(P)
design of rods reinforced by refractory forms, 21:38811(P)
design of rotating disk type, 21:25747(P)
design of SAP clad uranium carbide, for ROVI desalination reactor, 23:49623
design of Saxton, containing central thermocouples, 21:30180(R) (WCAP-3696-3)
design of SEFOR instrumented, with multipin cable connector, 21:30140 (GEAP-5307)
design of SEFOR, effects on coolant flow, 21:19357(R) (GEAP-5301)
design of SGHWR, 23:13392
design of sheathed, stacked pellet, to prevent heat fracturing of end cap welds, 21:10187(P)
design of sheathed, with interlayer to prevent diffusion of plutonium, 21:5660(P)
design of skewed array, to allow free thermal bowing of free standing, for FFTF, 21:21756 (APDA-186)
design of sodium bonded uranium carbide (UC)—plutonium carbide (PuC), design for 1000 MW(e) LMFBR of venting to coolant concept in, 23:33054 (WARD-2000-31)
design of sodium-bonded uranium—plutonium—carbide, for fast-breeder reactors, 21:38489
design of spaced 19 rod assemblies of, 25:28827(P)
design of spaced 19 rod bundle arranged assemblies of, 25:28824(P)
design of spaced concentric tube, 22:10460(P)
design of spaced concentric tube, 22:10460(P)
design of spherical, 21:44911(P)
design of spherical graphite, filled with potted fissile material, 22:10105(P)
design of spherical, for high temperature reactors, 21:44896(P)
design of spool-like, for activation analysis reactor, 21:12251(P)
design of stainless steel-clad uranium dioxide, dispersed in europium oxide—nickel matrix, 22:23859 (IN-1131, pp 127-39)
design of steam cooled reactor high power rod type, effects of vibration behavior on, 23:31169
design of superheating, 21:31953
design of suspended, from supporting plate, 21:31990(P)
design of thermal stress resistant metal clad ceramic, 24:9107(P)
design of thermally insulated, for pressure tube reactors, 22:10471(P)
design of thermionic, 23:35379(P)
design of thermionic rod, 25:34375(P)
design of thermionic, method for, 23:36186(P)
design of thermionic, with heat pipes, 25:60199(P)
design of thermionic, with means for operational testing of emitter cells before final assembly, 24:36091(P)
design of thermoelectric, 21:24960(P)
design of thorium—uranium-233, 21:31938 (IN-1101)
design of tubular clad, 21:44906(P)
design of tubular sheath, 21:5729(P)
design of tubular, cooled with water and steam, 21:38783(P)
design of tubular, for improved aerodynamics and specific power, 21:38782(P)
design of tubular, to accommodate radioinduced swelling, 21:5725(P)
design of tubular, with clustered parallel fuel rods, 21:21816(P)
design of tubular, with means for expansion between internal and external cladding, 25:60250(P)
design of tubular, with outer water coolant channels and inner steam coolant channels, 24:2075(P)
design of Type 19-9 DL stainless steel clad uranium oxide (UO$_2$)—plutonium oxide (PuO$_2$), for 1000 MW(e) LMFBR, 23:33022 (BAW-1316(Vol.3))
design of Type 19-9 DL stainless steel clad uranium oxide (UO$_2$)—plutonium oxide (PuO$_2$), for 1000 MW(e) LMFBR, 23:33021 (BAW-1316(Vol.2))
design of Type 304 stainless steel clad uranium oxide (UO$_2$)—plutonium oxide (PuO$_2$), for 1000MW(e) LMFBR, 23:33023 (BAW-1316(Vol.4))

design of Type 304 stainless steel clad uranium oxide (UO_2)—plutonium oxide (PuO_2), for 1000 MW(e) LMFBR, 23:33024 (BAW-1316(Vol.5))
design of uncased subassemblies of, with interior support webs, 25:37143(P)
design of urania for EVESR, methods for Mark IV, 21:27675 (GEAP-5097)
design of urania, dummy alumina, for high power testing in CVTR, 21:44824 (CVNA-274)
design of urania, for pulsed and steady state pool reactors, 21:32027(P)
design of uranium dioxide center-melt, 23:48507 (GEAP-10032)
design of uranium dioxide rods for VBWR, 21:7875 (GEAP-4406)
design of uranium rod, with Magnox jacket and interlayer coating to prevent plutonium diffusion, 21:38780(P)
design of uranium, with titanium interlayer and magnesium or zirconium jacket, 21:38792(P)
design of uranium—zirconium—hydrogen core, aluminum clad, 21:38772(P)
design of uranium-235 enriched, for the Advanced Test Reactor, engineering drawings for, 21:28137
design of uranium-235 enriched, with burnable poison dispersion, 21:46919(P)
design of vented, 22:10905(P)
design of vented, for fission gas discharge, 25:51254(P)
design of vented-to-coolant, for use in sodium-cooled fast breeders, 22:53396
design of vibration damped plate-type, 24:7555(P)
design of void incorporating, to minimize swelling, 23:24872(R) (WARD-3791-32)
design of water cooled and moderated, 24:31067 (CONF-700502-, pp 534-50)
design of wear-resistant clad, for assemblies, 21:15810(P)
design of WSA-3 assembly-type, for irradiation testing, 25:728(R) (WARD-4135-11)
design of Zircaloy clad uranium oxide (UO_2), review of, 25:23289
design of Zircaloy-2-clad uranium dioxide, for irradiation to varying degrees of melting in power reactors, 21:22903(R) (GEAP-5402)
design of Zircaloy-4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) assemblies, 25:54104 (WCAP-4167-1, pp 4.1-35)
design of Zircaloy-4-clad, 3 percent-enriched urania, for Obrigheim Power Reactor, 21:46889
design of Zircaloy-clad urania, for Dodewaard power reactor, 21:10141
design of Zircaloy-clad, for LOFT, 21:34157 (IDO-17219)
design of zirconium—clad ceramic, with intermediate metallic nitride layer, 23:8279(P)
design of, computer program for, 21:1157 (CONF-661001-26)
design of, computer uses in, 21:38768
design of, engineering aspects of, 23:40318 (NP-17868)
design of, for EBR-II testing, 21:7979
design of, for gas-cooled reactors operating above 1800°F, 21:10191(P)
design of, for optimum heat transfer, 21:10227(P)
design of, for thermal fluid coolant, 21:5719(P)
design of, incorporating removable thermocouple cables, 21:23773(P)
design of, SWELL computer program calculations for improved, 24:33326
design of, with additives in matrix material to react with fission products, 21:5652(P)
design of, with central highly enriched helical wire, 21:8166(P)
design of, with central purge gas channel, 21:8168(P)
design of, with inner sheath of refractory material, 21:8171(P)
design of, with integral centering splitters, 21:5728(P)
design of, with metallic hydride moderating rods, 21:5726(P)
design of, with thermal expansion segments, 21:8167(P)
design of, with uranium dioxide core in uranium metal tube, 21:15803(P)
design parameters and nuclear characteristics of RITMO plutonium, 23:26096
design parameters for assemblies of plutonium oxide (PuO_2)—uranium oxide (UO_2) rods, reference, 25:50889 (JAERI-Memo-4327)
design parameters for bottom loading, with independent support, 25:10333(P)
design parameters for BWR and PWR, reference, 22:44841 (WASH-1082)
design parameters for cesium vapor insulated refractory metal clad cylindrical thermionic, 23:40470(P)
design parameters for closed cycle pressurized water 450 (MW(e) San Onofre Power Reactor Unit 1 reference core, 23:33005 (WCAP-3269-7)
design parameters for conceptual 1 to 5 kW(e) fast thermoelectric reactor hexagonal-shaped heat-pipe-containing plutonium phosphide (PuP), 23:19543
design parameters for cylinder shaped fast, calculation of stresses for optimum, (T), 25:20732 (AERE-R-6516)
design parameters for Fast Test Reactor 400 MW core beryllium oxide (BeO)-moderated plutonium carbide (PuC)—uranium carbide (UC) pin-type, 23:11278 (BNWL-914)
design parameters for gas cooled fast breeder power reactor, 23:45082(R) (GA-8787)
design parameters for gas cooled pin type, optimum economic, 25:54088 (A/CONF.49/P-495)
design parameters for long life reactor very high burnup vapor transport, conceptual, 23:23988 (N-68-37209)
design parameters for mixed oxide, 22:50804 (BNWL-841)
design parameters for MPRE Type 316 stainless steel clad uranium oxide (UO_2) pellet type, 23:28583 (ORNL-TM-1344)
design parameters for optimum cylindrical thermionic, 23:40467(P)
design parameters for optimum economic unclad plutonium—thorium—uranium, for liquid sodium-cooled dual purpose desalting and power reactors, 23:13556 (ORNL-4202)
design parameters for optimum fast breeder power reactor, analysis of, (E/T), 22:39810
design parameters for plutonium, 22:25007
design parameters for Saxton Zircaloy-4 and stainless steel clad test, 23:17213 (DOCKET-50146-8)
design parameters for series connected thermionic, optimum, 25:18202
design parameters for series connected thermionic, optimum, 25:10226
design parameters for spiral-spacer-type fast breeder, 23:11239 (KFK-768)
design parameters for thermoelectric, 21:42836
design parameters for tube shaped Type 304 stainless steel insulated pellet type, 24:11331(P)
design parameters for tungsten clad magnesium alloy matrix spherical uranium oxide (UO_2) thermionic, 23:40471(P)
design parameters for tungsten coated uranium particle tube thermionic, 23:40459(P)
design parameters for Type 316 stainless steel clad plutonium carbide (PuC)—uranium carbide (UC) pin type, 24:46045 (WARD-3791-33)
design parameters for water cooled parallel arranged rod type, 24:38644(P)
design parameters for Zircaloy 2 clad uranium oxide (UO_2) rod type Aquilon 2, 24:4088 (CISE-R-100)
design parameters of 1000 MW(e) high temperature gas cooled, 24:52852 (GA-9400(Vol.1))
design parameters of BISO and TRISO coated ceramic particle, 24:28857 (GA-10065)
design parameters of cluster arranged assemblies of rod type, with uniform power output and temperature distribution, 24:47863(P)
design parameters of cluster arranged pin type, 24:33554(P)
design parameters of Doel and Tihange Power Reactors, 24:3999
design parameters of end supported comb arranged plate type, 23:40462(P)
design parameters of fast breeder, CYGRO-1 computer program for, 23:37528
design parameters of fission gas vented fast liquid sodium cooled, 24:38546(P)
design parameters of Fort St. Vrain Power Reactor Unit 1 hexagon shaped graphite matrix, 24:9059
design parameters of Fort St. Vrain Power Reactor Unit 1 hexagon shaped graphite matrix, 24:9063
design parameters of gas cooled fast, (T), 25:5998
design parameters of instrumented plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, for liquid sodium cooled fast test reactor, 25:46290(R) (GEAP-10010-28)
design parameters of liquid sodium cooled instrumented cluster arranged rod type, 25:54196 (ANL-7757)
design parameters of metal clad power, effects of fission gas pressure on, 24:31070
design parameters of MTR type, for swimming pool reactors, 25:26030 (JUL-693-RE)
design parameters of NaK cooled plutonium carbide (PuC)-uranium carbide (UC), 24:36066 (KFK-1143)
design parameters of parallel arranged heat pipe connected thermionic, 24:24893(P)
design parameters of Peach Bottom Power Reactor Unit 1 graphite matrix thorium carbide (ThC_2)—uranium carbide (UC_2), 23:23825 (GAMD-8743)
design parameters of perforated tapered annular tube particle type, for gas cooled reactors, 25:12800(P)
design parameters of Phenix Fast Reactor, 23:45038
design parameters of Phenix Fast Reactor plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:45036
design parameters of plutonium or uranium oxide or mixed oxide pellet zirconium clad cylindrical, 23:40460(P)
design parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:23335(R) (GEAP-10010-26)
design parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 23:47341 (GEAP-5748)
design parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 25:23285(R) (NEDC-12152)
design parameters of pressure tube assemblies, for heavy water moderated boiling water cooled reactors, 25:54106(P)
design parameters of pressure tube rod type, 24:47989(P)
design parameters of prototype Zircaloy-4 clad uranium oxide (UO_2) pellet, 24:50121 (EUR-4406)
design parameters of silicon carbide sheathed, with means for absorbing fission products and preventing reactions between sheath and fuel, 25:28837(P)
design parameters of Type 304 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) fast, 24:33406(R) (BNWL-325)
design parameters of vented rod type, for fission product gas removal, 24:47862(P)
design parameters of water cooled, 25:34356(T) (JPRS-53069, pp 245-8)
design parameters of water cooled cluster arranged graphite filled natural uranium pressure tube type, 24:50125(P)
design parameters of water cooled partitioned cylinder shaped central void, 25:10219(P)
design parameters of water cooled pin type uranium oxide (UO_2) cluster, 24:26785(P)
design parameters of water cooled zirconium alloy clad pyrolytic graphite coated particle type, 25:10220(P)
design parameters of Zircaloy 4 clad uranium oxide (UO_2) pellet type, 24:29097
design parameters of ZPR-6 VTRZ core, 24:7173
design parameters of, reliability analysis for optimum, (T), 24:7365
design pin type, with burnable poison-fuel clusters, 21:44897(P)
design requirements for, 25:54310
design specifications for LMFBR, 25:1895
design specifications for MPRE Type 316 stainless steel clad uranium oxide (UO_2) pellet type, 23:28582 (ORNL-3902)
design specifications of rod type, 22:19030(P)
design using burnable poisons, 21:21818(P)
design with burnable boron poison, 21:20468
design with ceramic pellets separated by disks, 21:38800(P)
design with coolant flow-twisters between longitudinal bundle subdivisions, 24:4066(P)
design with coupling means between separable sections, 25:44212(P)
design with cup-shaped retainer between fuel and fission gas plenum, 25:60246(P)
design with cylindrical fuel pellets pressed in stainless steel jackets, 21:38781(P)
design with diffusion barrier between fuel and can, 21:19510(P)
design with dispersed activated carbon for fission product retention, 22:7931(P)
design with elongated fuel inserts in lengthwise cooling passages, 24:38638(P)
design with fins serving as spacers, 21:21813(P)
design with flexible cladding, 21:44963(P)
design with fuel containment between two concentric cylinders, 21:19504(P)
design with fuel rods perpendicular to coolant flow, 21:23762(P)
design with helical metal strip wrapped around pin clusters, 25:60253(P)
design with improved heat transfer, 22:1899(P)
design with inclusion of thermocouples to allow measurement of internal temperatures, 21:19502(P)
design with interior mechanical reinforcement, 21:38812(P)
design with internal fins for reduction of fission gas inventory, 25:48359
design with low-melting metal filler between carbide fuel and can, 22:14342(P)
design with means for flooding prevention from core spray cooling systems, 23:40371(P)
design with means to prevent creep of metal end plugs, 22:42524(P)
design with metal inserts in the fuel core for improved heat transfer, 21:38784(P)
design with offset plenum region for lowering resistance to coolant flow, 25:54309(P)
design with porous element for fission gas venting, 25:26079(P)
design with solid interlayer between fuel and cladding to accommodate swelling, 24:11333(P)
design with spacer diaphragms, 21:19511(P)
design with spacer grid attached by centering studs, 21:38803(P)
design with stainless steel grid members supporting Zircaloy control rod guide tubes, 25:54297(P)
design with temperature dependent rupture disk, 21:38773(P)
design, fabrication, and performance of plutonium dioxide—uranium dioxide pin-type, with annular fuel distribution, 25:47154
designs for LMFBR oxide and carbide, economics of, 24:18659
designs for materials testing, 21:27664 (AERE-R-5456)
destruction of SNAPTRAN, reactor shutdown by, 21:35648 (NAA-SR-11850)
detection of failed, using tracers, 21:14117
development and economics of, for Dragon Reactor, 21:15793
development and evaluation of fueled-graphite spheres for AVR Reactor, 21:2821
development and evaluation of plutonium, 21:7945
development and fabrication for PWR, 21:21651(R) (WAPD-MRP-119)
development and fabrication of bonded beds of graphite-coated particles for HTGR, 24:32489
development and fabrication of ceramic plutonia, 21:19353(R) (EURAEC-1774)
development and fabrication of tubular Zircaloy-clad uranium dioxide, 24:8169 (DP-997)
development and fabrication of uranium aluminide and uranium oxide dispersion, 22:8686 (ORNL-4170, pp 108-14)
development and inspection of ATR, 21:12236(R) (IDO-17202)
development and testing beryllium oxide—thorium dioxide—uranium dioxide for gas-cooled pebble-bed reactors, 23:8295
development and testing for Dragon Reactor Experiment, review of, 23:8355
development and testing for UHTREX, 21:19364(R) (LA-3665)
development and testing metallic, 22:12999 (BNWL-473, pp 9.1-18)
development and testing of advanced prototype, 21:12158(R) (WCAP-3269-18)
development and testing of clad plutonia—urania, for SEFOR, 21:19357(R) (GEAP-5301)
development and testing of EVESR, Sept. to Nov. 1966, 21:19358(R) (GEAP-5404)
development and testing of plutonia—urania, for fast reactors, 21:8122(R) (GEAP-5158)
development and testing of plutonium dioxide—uranium dioxide pin-type, 24:23540(T) (JAPFNR-6)
development and testing of plutonium dioxide—uranium dioxide-loaded, Euratom program on, 24:39690 (EURAEC-2115)
development and testing of rod-controlled canless clusters, 21:12158(R) (WCAP-3269-18)
development and testing of, for BONUS reactor, 21:13982 (ORNL-3970, pp 141-5)
development and testing of, for PWR, 21:1178(R) (WAPD-MRP-117)
development during 1968 of test reactor, 23:33083(R) (IN-1228)

development for Army Pulsed Radiation Facility, 23:8247 (ORNL-4370, pp 241-2)
development for boiling reactors, status of, 21:8138
development for EBOR, 21:27668(R) (GA-5997)
development for EBOR, 21:27667(R) (GA-5808)
development for high-temperature reactors in Federal Republic of Germany, 25:52426 (A/CONF.49/P-385)
development for PFR, 21:23638
development for Pickering Power Reactor, for 42 W/cm operation, 21:44813 (AECL-2949)
development for water cooled and sodium cooled reactors, potential for, 24:52921
development for water-cooled reactors, 22:16356 (KR-116)
development in the United Kingdom, design and fabrication procedures in, 22:46937
development of 300 MW(e) THTR spherical coated ceramic pebble bed, 23:37504 (EUR-4190, pp 443-51)
development of advanced, 24:10188(R) (BMI-1872)
development of advanced, review of, 24:10151
development of aluminum alloy cladding for, 21:39580(P)
development of aluminum—boron carbide (B_4C) control foils for research reactor, description of, 23:4324
development of aluminum—uranium intermetallic compound, for use in high-flux, high-power-density reactors, 22:15135 (IN-1133)
development of aluminum—uranium oxide dispersion-type, 21:13261 (ORNL-TM-1692)
development of aluminum-clad, for high flux reactors in Brazil, 25:52422 (A/CONF.49/P-197)
development of angular superheating, 25:7930 (BMBW-FBK-70-22)
development of beryllia-based, for Australian high-temperature gas-cooled pebble-bed reactor, 21:14038
development of boiling water, 23:4222
development of boiling water, mechanical and thermodynamic tests for, (E/T), 25:25979
development of bonded coated particles in graphite matrix, for Fort St. Vrain, 24:24782(R) (GA-9875)
development of bonded-bed coated particle type for HTGCRE, 23:9179 (NP-17696)
development of ceramic coated particle type, for High Temperature Gas Cooled Reactor Experiment, 23:37522
development of ceramic coated uranium oxide (UO_2) particle type, for high temperature gas cooled power reactors, 23:37521
development of coated high temperature gas cooled, 22:32810
development of coated particle, 21:38449(R) (GA-6950)
development of dispersion-type, 22:734
development of driver-type, for neutron sources in Spert IV, 21:27801(R) (IDO-17228)
development of EBR-2 modified, 21:42725(R) (ANL-7357)
development of encapsulated, for irradiation testing, 23:22620(R) (WARD-3791-28).
development of EVESR, 21:1162(R) (GEAP-5175)
development of fast breeder, fabrication and irradiation testing programs for, 25:60010(T) (EURFNR-902)
development of fast breeder, fabrication and irradiation testing programs for, 25:28632(T) (EURFNR-824)
development of fast breeder, problems with, 25:20708
development of fast reactor mixed carbide, program for, 24:25804(R) (UNC-5253)
development of fast, conference on, 25:34361
development of fast, conference on, 25:48353
development of fast, during April to June 1970, 25:41364(T) (EURFNR-849)
development of fast, problems in, 25:34355(T) (JPRS-53069, pp 225-35)
development of fast, problems in, 23:34906
development of fast, program in Belgium for, 25:39227 (NP-18809, pp 1.1-33)
development of fast, review of, 23:52350(T) (JPRS-48331, pp 462-80)
development of fast, summary of international program for, 24:16200
development of fueled-graphite, for HTGR, 21:13227 (ORNL-3970, pp 209-22)
development of fueled-graphite, in TURF for HTGR, 22:8823 (ORNL-4170, pp 211-26)
development of gas cooled fast breeder power reactor, description of August 1967 to July 1968, 23:45082(R) (GA-8787)
development of gas-cooled fast breeder, 21:19354(R) (GA-6667)
development of gas-cooled fast breeder power reactor plutonium oxide (PuO_2)—uranium oxide (UO_2), description of July 1966 to July 1967, 23:17188(R) (GA-8107)
development of graphite clad coated particle, 24:52914 (DP-Report-291)
development of graphite coated particle type, for 300 MW(e) prototype Thorium High Temperature Reactor, 23:37520
development of graphite spherical pebble-type, incorporating particulate ceramic fuels, 22:23855 (CONF-660524-, pp 293-8)
development of graphite-matrix, for use in high-temperature gas-cooled reactors, 21:20556
development of high performance mixed oxide, for Fast Ceramic Reactor, 24:16190(R) (GEAP-10028-32)
development of high performance mixed oxide, for Fast Ceramic Reactor, 23:43115(R) (GEAP-5753)
development of high performance mixed oxide, for Fast Ceramic Reactor, 24:4058(R) (GEAP-10028-31)
development of high performance mixed oxide, for Fast Ceramic Reactor, 23:43116(R) (GEAP-10028)
development of high performance mixed oxide, for Fast Ceramic Reactor, 23:37507(R) (GEAP-5700)
development of high performance mixed oxide, for Fast Ceramic Reactor, 23:37506(R) (GEAP-5677)
development of high temperature gas cooled coated particle, 25:3774 (DP-Report-439)
development of high temperature gas-cooled, 21:38463(R) (ORNL-4133)
development of instrumented simulated, for analysis of liquid sodium superheat boiling, 22:37614
development of internally cooled beryllium oxide-base, 23:6724(R) (GA-6889)
development of liquid sodium cooled fast reactor stainless steel and Incoloy 800 clad plutonium carbide (PuC)—uranium carbide (UC) and plutonium carbide (Pu_2C_3)—uranium carbide (U_2C_3) rod type, 24:7116 (UNC-5229)
development of mandril oxide, 21:36902 (KAPL-3321)
development of metal clad mixed plutonium oxide (PuO_2)—uranium oxide (PuO_2), for helium cooled fast breeders, 24:50120 (CONF-700401-, pp 864-78)
development of mixed carbide fast, (E), 25:48271
development of mixed carbide, for fast breeders, 23:15679(R) (UNC-5193)
development of mixed carbide, for LMFBR, 23:48576(R) (UNC-5244)
development of molybdenum—plutonium oxide (PuO_2) cermet, for 30 MW repetitively pulsed fast reactor, 23:21510 (BNL-13208)
development of niobium—uranium dioxide cermet, 22:34096 (GMAD-3078-21)
development of optimum, for SNAP programs, 24:24895
development of optimum-shaped pellets of silicon carbide (SiC)-clad beryllium oxide (BeO)—thorium oxide (ThO_2)—uranium oxide (UO_2) for rod-type, 23:13503(R) (GA-6532)
development of Oskarshamn Power Reactor, for first use, 23:45032
development of pin-type, 21:35572 (EURFNR-312)
development of plutonia—urania, for EBWR, 21:44822 (BNWL-SA-1199)
development of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, for gas cooled breeder reactor, 25:41431
development of plutonium, for FFTF, 21:46940 (BNWL-SA-1434)
development of porous zirconium hydride—urania, for hydrogen reactivity control, 21:38764
development of power reactor, summary of, 23:4223
development of pressurized water cooled Zircaloy clad uranium oxide (UO_2) pin type, 25:12704 (BMBW-FBK-70-11)
development of prototype, for heavy water moderated and cooled thorium breeder reactor, (E/T), 25:10209 (JUL-654-RG)
development of rod-type ceramic, for fast reactors, 23:10301
development of SAP clad, 21:21702
development of Shippingport Core 2 Seed 2, 23:15558(R) (WAPD-MRP-126)
development of silicon carbide (SiC) coated ceramic pin type, for AGR type reactors, 23:37523
development of silicon carbide (SiC) coated ceramic particle type, for conceptual direct cycle gas cooled fast power reactor, 23:37510
development of sodium cooled fast, CNEN activities on, 25:8074 (EURFNR-827)
development of sodium-bonded stainless steel clad plutonium nitride—uranium nitride, (E), 25:28687 (BMI-1898, Sect.A)
development of sodium-bonded stainless steel clad plutonium nitride—uranium nitride, (E), 25:44118(R) (BMI-1905)
development of spheres for pebble-bed, 21:14024
development of spherical, for German pebble bed reactors, 25:6006
development of stainless steel clad mixed oxide, (E/T), 25:31533(R) (ANL-7798)
development of steam cooled fast breeder, progress summary on, 24:41016
development of thermal power reactor molybdenum-coated uranium oxide (UO_2) thermionic emitter-, description of, 23:4216 (BMwF-FBK-68-25)
development of thermal water cooled and fast breeder, 25:10101
development of thermal, review of U. S, 25:39250 (A/CONF.49/P-80)
development of thermionic, 21:3732
development of thermionic converter, description of, 23:6012
development of thermionic, review of U. S, 25:44170
development of thoria—urania, for Thorium-HWOCR, 21:13948(R) (BAW-393-9)
development of tungsten-clad molybdenum—uranium dioxide, for thermionic cells, 21:4999
development of unencapsulated, for Fast Test Reactor, 23:22620(R) (WARD-3791-28).
development of uranium oxide (UO_2) and uranium carbide (UC), for sodium cooled fast breeder reactors, 25:31572
development of uranium oxide (UO_2), for WWER-type reactors, 25:48272
development of vented fast ceramic, specimen testing for, 21:46854(R) (GEAP-5098)
development of vented-to-coolant fast, (E), 25:48357
development of Zircaloy-clad uranium oxide (UO_2), for CIRENE Reactor, 22:7830
development of, chemical research for, 22:25144
development of, irradiation testing for, 25:54182 (A/CONF.49/P-580)
development of, review of work at Ispra on, 21:24739
development program for CANDU-type reactor, description of, 22:35419 (AECL-3126)
development program in Germany for fast breeder pin type, 24:41013 (TRG-Report-1911, pp 82-100)
development programs for fast breeder power, 24:41015 (TRG-Report-1911, pp 266-86)
development review, 23:35389
development, fabrication, and testing for EBR-II, 21:40536 (ANL-7349, pp 2-91)
diameter of fast, effects on Doppler coefficient of, 22:14227
diameter of pin-type, design of equipment for measuring, 24:22850 (TRG-Report-1977)
diffusion barrier for, design of, 21:40714(P)
diffusion barrier for, design of cladding for, 21:40717(P)
diffusion barrier for, development of cladding for, 21:40716(P)
diffusion in plutonium dioxide—uranium dioxide, effects of thermal gradients on plutonium, 24:6271
diffusion in, review on, 23:24855 (JAERI-1172)
diffusion of bubble—defect system in uranium carbide and uranium dioxide, velocities for, 24:44800
diffusion of fission products from, 21:22411 (ORNL-4076, pp 141-74)
diffusion of fission products in pyrolytic graphite coated uranium carbide—thorium carbide, 21:1960 (SGAE-CH-36/1966)
diffusion of fission products in uranium dioxide, kinetics of, 24:10208
diffusion of plutonium from clad, use of aluminum or graphite barrier for prevention of, 25:8857
diffusion of pores in, effects of applied stresses on, (T), 25:22153 (WAPD-TM-983)
dimensional changes in steam cooled fast breeder, tabular summary of, 23:23916
dimensional changes of Zircaloy-4 clad thorium oxide (ThO_2)—uranium oxide (UO_2), in-pile progressive, (E), 25:6197
dimensional measurement of irradiated, methods for underwater, 23:45578 (DUN-SA-108)
dimensional measurements of, summary of postirradiation, 22:12006(R) (ANL-7399)
dimensional stability of stainless steel cans under conditions of constant pressure and thermal cycling, 21:23761
dimensional stability of Zircaloy-2-clad compacted uranium oxide (UO_2) and thorium oxide (ThO_2)—uranium oxide (UO_2) pellet type and uranium oxide (UO_2) compacted powder, effects of operational heat load on, 23:26127 (HPR-107)
dimensional variations in uranium oxide (UO_2) WWER-type, method for calculation of at-power, 25:12798 (IAE-1942)
disadvantage factor calculation for water-moderated uranium, GRAFA-code for thermal, 21:38706
disadvantage factors in spherical graphite clad uranium—thorium fueled, (E/T), 24:41069
disassembly and examination of plutonium-enriched, facility design for, 22:4407
disassembly equipment for cylinder clad rod type, description of lug removing, 24:53009(P)
disassembly of bundle arranged tube type, design of cutting tools for, 24:36097(P)
disassembly of failed, 22:3927 (EIR-124)
disassembly of irradiated fast, immersed in liquid sodium, test program for, 23:45489 (ANL-7520(Pt.1), pp 125-7)
disassembly of, design and operation of equipment for, 22:45220(T) (ORNL-tr-1976)
disassembly of, design of equipment for, 23:11741(P)
disassembly of, equipment for, 21:30525(P)
disassembly of, equipment for, 21:30525(P)
dismantling multitubular assemblies of LMFBR, 25:2314 (ORNL-4572, pp 37-84)
dismantling of irradiated assemblies, description of remote handling equipment for, 25:20554
displacement in turbulent flow of, vibration correlation for, 21:38752
dissolution and iodine separation from uranium, equipment and method for, 22:4302 (CEA-R-3259)
dissolution in nitric acid, mercury-catalyzed, 22:4234 (RT/CHI-(67)8)
dissolution of, 22:4231(R) (IN-1087)
dissolution of aluminum-clad thorium dioxide, 22:40151 (BNWL-240)
dissolution of plutonium dioxide—uranium dioxide, by ammonium fluoride—nitric acid system, 21:5987 (BNWL-204(Pt.2))
dissolution of SAP-clad, 22:149
dissolution of spent, review of aqueous and nonaqueous, 23:418
dissolution of stainless steel—uranium dioxide, development of cell for electrolytic, 21:17716
dissolution of stainless steel-clad uranium or plutonium, using gaseous hydrogen fluoride and oxygen-containing gas at 550 to 650°C, 21:17735(P)
dissolution of stainless steel-clad, computer simulation studies of criticality in electrolytic, 24:31441 (IN-1375)
dissolution of thorium dioxide—uranium dioxide, in nitric and hydrofluoric acids, 22:47702(R) (BAW-3809-3)
dissolution of unirradiated MTR, in nitric acid, effects of mercury catalyst on, 21:6000 (RT/CHI-(66)17)
dissolution of urania—thoria, in nitric acid, effects of various factors on rate of, 21:14309
dissolution of uranium, electrolytic, 21:17732
dissolution of, pilot-scale studies of, 22:40189 (NP-17542)
distribution of plutonium oxides (PuO_2) and uranium oxides (UO_2) in, determination of radial, 22:30343(R) (EURAEC-1992)
Doppler coefficients in cylindrical, effects of nonuniformities on, (T), 23:19561
Doppler coefficients of PWR, (T), 23:49385 (BNL-50185)
dose rates from boiling water type mixed oxide rod arrays containing high exposure recycle plutonium, (E), 24:26835(R) (BNWL-1358)
drive mechanisms for clustered, description of releasable, 22:42449(P)
drying tests on water-soaked cladding ruptured, 21:27801(R) (IDO-17228)
dryout performance of boiling water cooled bundle arranged rod type, enthalpy imbalance analysis for, (E/T), 25:51081 (AECL-3968)
dump tank for CANDU type, description of shielded integral, 23:45064(P)

dynamic response of pulsed, finite difference method for analysis of, 23:19877 (BNL-13311)
economic management for power reactors, 21:30182
economics and use in power plants of, 24:2072
economics for Diablo Canyon Power Reactor Unit 1 replacement of annular metal pin type, 23:40277 (ORNL-TM-2493)
economics of, 21:14119
economics of BONUS superheating, discussion of, 21:31953
economics of CIRENE-type thorium oxide, 22:22827 (RT/FI-(67)29)
economics of plutonium, for BWR, 22:6024
economics of reprocessing fast oxide, 22:3939
economics of slightly enriched uranium, for light-water-moderated reactors, 21:17498
economics of Zircaloy 2 clad natural uranium tube type in CIRENE-1, calculation of optimum, 24:7054 (CISE-R-118)
economics of, calculation of, 21:30296
effects of liquid sodium environment on fast reactors, 22:18600
effects of plutonium, on physics parameters, economics, and safety of Garigliano and Trino Reactors, .21:46841 (EUR-3478.i)
effects on coolant flow in folded-flow reactor, 21:19476 (XDC-59-12-50)
efficiency of burnt-out, as gamma source for radiation-chemical preparation of compounds, 23:21728 (JUL-560-PC)
efficiency of, comparison of fuel pins and fuel tubes, 21:44929
eigenfrequencies of transverse vibrations of rod, analysis for conceptual Na-1 fast breeder reactor of, 23:43118 (KFK-923)
eigenfunctions of transverse vibrations of rod, analysis for conceptual Na-1 fast breeder of, 23:43118 (KFK-923)
elasticity of irradiated, equipment for in-cell measurement of modulus of, 25:19279
electric and thermal conductivity of, effects of temperature on, 21:44864
electric connectors for instrumented organic-cooled, mechanical problems in development of, 22:2471
electrical contact studs for horizontal, for high-temperature operation, 23:7922(P)
elongation under power and pressure cycling, CYGRO code analysis of progressive, 24:46049
encapsulation of irradiated plutonium oxide—uranium oxide, in potassium—sodium alloy, method for remote, 24:5857
end cap for, description of lock-type remotely removable, 22:42536(P)
end caps for stacking annular, shaping to prevent deformation of, 23:37792(P)
end caps for, design of, 21:32046(P)
end caps for, design of linear movement operated, 22:1902(P)
end caps for, equipment and method for exposure welding of stainless steel, 25:47106
end caps for, metallic joint for maintaining leak tightness of, 25:57195(P)
end closure of sheathed tubular, methods for, 22:4760(P)
end closure on aluminum-clad, design for, 21:30976 (DUN-1941)
end closure on ceramic, method for, 21:518(P)
end closures for, design of, 24:29096(P)
end fitting for, design of latch and pad assembly for, 25:60252(P)
end fitting for, design of solid cylindrical, 25:60251(P)
end fittings for, development of control rod guide tube transition joints for, 25:6196
end plugs for advanced zirconium, development of duplex tube, 22:16263(R) (AEG-E-31-873)
end retaining member for, with means for control of longitudinal thermal expansion, 25:28834(P)
end-plug for evacuated, description of pin-sealing vacuum access in, 22:42471(P)
endurance testing of thin clad, design of capsule for high temperature, 21:19804 (CONF-660511-, pp 4.8.1-9)
energy distribution in JRR-2, use of activation analysis for measurement of, 23:49598
energy loss from viscous damping of pulse, (T), 25:6123
enrichment level of unirradiated, design of portable gamma spectrometer for measuring, 21:41201 (BNWL-508)
enrichment regions of ceramic, description of central void low- and annular high-, 25:15369(P)
enrichment requirements for BONUS, 21:23595 (CEND-295)
enrichment, economics of variable, 21:2852
erosion of defected ceramic, effects of fabrication and vibration on water, 21:1925 (BNWL-295)
etching techniques for plate type, comparison of, 23:33118 (IN-1228, pp 20-73)
evaluation of coated particle, 21:38463(R) (ORNL-4133)
evaluation of irradiated plutonium, facility design for, 22:4403
evaluation of irradiated, design of hot cell for, 24:460
evaluation of irradiated, shielded facility design for, 22:4402
evaluation of uranium oxide (UO_2)—tungsten, for fast reactors, 25:51030(R) (NAA-SR-12492)
examination facilities for, design of FFTF, 21:46938(R) (BNWL-501)
expansion of EBR-2, effects of power transients on thermal, 23:37525
expansion of FTR, during transients, 21:8110
expansion of gas cooled metal clad uranium oxide (UO_2) pellet type, effects of regulated coolant temperature on, 24:11180(P)
expansion of irradiated bulk-oxide, computer program for analysis of, 21:8134
expansion of Zircaloy clad uranium oxide (UO_2), resistance strain gage measurements of, 25:41417
explosion in liqid sodium of uranium oxide (UO_2), mechanical energy conversion efficiency and particle size distribution from, (E/T), 25:57068(R) (AI-AEC-13006)
explosion in liquid sodium of uranium oxide (UO_2), mechanical energy conversion efficiency and particle size distribution from, (E), 25:28726(R) (AI-AEC-12986)
extruder die for ceramic, engineering drawings for, 21:8507
extrusion cladding of aluminum—uranium alloy, 23:14317(P)
extrusion of aluminum alloy-clad ceramic dispersion, core and clad flow conditions during, 25:55420
extrusion of aluminum-clad uranium dioxide, dispersed in magnesium, 22:7047
extrusion of aluminum-clad, with metallic and ceramic powder cores, 21:11194 (INR-728/XIV/R)
extrusion of composite, method for, 22:8716(P)
extrusion of externally and internally cooled, methods for, 24:2897(R) (RMI-13)
extrusion of graphite-matrix rod-type, incorporating coated fuel particles, 23:14382(P)
extrusion of internally- and externally-cooled, development of precision methods for, 25:29787(R) (RMI-16)
extrusion of internally- and externally-cooled, development of methods for, 24:21345(R) (RMI-14)
extrusion of Mark VE-O, by water cooled mandrel, 21:11201(R) (RMI-5)
extrusion of NPR Mark IV, geometry correction method for, 24:21345(R) (RMI-14)
extrusion of ribbed, equipment and method for, 24:7565(P)
extrusion of zirconium sheathed uranium, design of die for, 21:19830(P)
extrusion of, design of dryer for use in, 21:24151(P)
extrusion pressure for Mark VE-O, die approach angle and lubricants for reducing, 21:11201(R) (RMI-5)
fabricating and sintering methods for, 21:28742(P)
fabrication, 22:49780
fabrication and in-pile testing of plutonium dioxide—uranium dioxide, methods for, 22:34125 (EURAEC-1999)
fabrication and inspection of, Japanese research on, 24:10145(R) (PNCT-AR-68)
fabrication and installation of instrumented, development of techniques for, 22:8708 (ORNL-4190)
fabrication and loading of radiator-type, for fast reactors, 21:11190 (ANL-7155, pp 1-166)
fabrication and properties of Inconel 718 for, 21:24738
fabrication and properties of plutonium dioxide—uranium dioxide—zirconium dioxide, 21:11277(R) (NUMEC-3505-21)
fabrication and properties of zirconium alloy clad uranium silicide, 22:43642(P)
fabrication and quality control of ceramic and metallic, laboratory facilities for, 22:27960
fabrication and reprocessing of, Karlsruhe and Mol research on safeguards systems at facilities for, 25:21294
fabrication and reprocessing of, relation of economics of nuclear industry to, 21:46846 (EURFNR-311)
fabrication and reprocessing of, systems analysis of accountability method for, 25:21297
fabrication and shipping of, criticality parameters for, 21:1542 (NAA-SR-Memo-5975)
fabrication and technology in India, 21:25668
fabrication and tensile properties of chromium—nickel—uranium dioxide dispersion-type plates, 21:22920
fabrication and testing clad urania, 21:17536(R) (EURAEC-1742)
fabrication and testing for SNAP-8, 21:21749 (NAA-SR-Memo-10183)
fabrication and testing of aluminum-base dispersion plates, 21:13225 (ORNL-3970, pp 103-11)
fabrication and testing of clad plutonium carbide—uranium carbide, for fast reactors, 23:8349
fabrication and testing of clad plutonium dioxide—uranium dioxide, for fast reactors, 23:8349
fabrication and testing of clad uranium dioxide, 22:34097 (GMAD-3078-25)
fabrication and testing of fueled-graphite, 21:13226 (ORNL-3970, pp 150-63)
fabrication and testing of mixed oxide, description of, 22:50804 (BNWL-841)
fabrication and testing of pin-type, for WSA-3 irradiation experiment, 25:32776(R) (WARD-4135-13)
fabrication and testing of sol-gel plutonium dioxide—uranium dioxide, 23:8274 (ORNL-4370, pp 142-50)
fabrication and testing of stainless steel-clad pin-type, for EBR-II irradiation tests, 23:39016 (BMI-1862, Sect.A)
fabrication and testing of uranium dioxide rods for VBWR, 21:7875 (GEAP-4406)
fabrication and testing of ZPPR, equipment and methods for, 22:12477 (RFP-1078)
fabrication and testing of, West Germany methods for, 23:24985
fabrication and testing plutonium, 23:8129 (EUR-3663)
fabrication and testing stainless steel clad plutonium carbide—uranium carbide, 22:45806(R) (WARD-3791-21)
fabrication and thermal testing of calcia—urania—zirconia, for Power Burst Facility, 21:17517(R) (CEND-235)
fabrication at Port Hope, Canada, 22:28898
fabrication by cold-pressing and sintering of uranium carbide pellets for, pilot plant for, 21:20554
fabrication by extrusion, problems with heating salt in, 21:28732(R) (RMI-8)
fabrication by pneumatic vibration of powders, valve gripper device for, 22:30343(R) (EURAEC-1992)
fabrication by rolling, deformation behavior in, 25:49507 (ORNL-TM-3300, pp 269-75)
fabrication by upset-forging, 21:28732(R) (RMI-8)
fabrication by vibration compaction of uniform size ceramic powders, 23:13584 (CONF-680504-2)
fabrication cost calculations for reactor evaluation, 21:14113 (ORNL-3970, pp 204-8)
fabrication costs for annular graphite cylinders filled with bonded coated uranium oxide (UO_2) particles, 22:48654 (ORNL-TM-2241)
fabrication costs for CANDU and water cooled reactors, 25:20731 (AECL-3780)
fabrication costs for fast test reactor, 21:27827 (BNWL-SA-1042-S(Rev.B))
fabrication costs for low-enrichment high-temperature gas-cooled Dragon Project concept, 22:48654 (ORNL-TM-2241)
fabrication costs for, computer program for calculation of, 24:22511
fabrication costs in expanding nuclear economics, 24:11279
fabrication costs of metal-clad by sol-gel process, 21:44853 (ORNL-TM-1979)
fabrication costs of plutonia—urania, with variation of design parameters, 21:15783 (BNWL-131-E)
fabrication facility for, computer control of, 21:15785 (BNWL-CC-483)
fabrication for 9 x 9 core for Saxton Power Reactor, 21:46867 (WCAP-3269-59)
fabrication for Doppler effect experiments, 22:43627 (ANL-7299, pp 14-113)
fabrication for fast reactors, 21:23589(R) (ANL-7308)
fabrication for in-pile irradiation, 22:732 (EURFNR-318)
fabrication for Kahl boiler-superheater, 21:38599
fabrication for Latina-type gas-cooled reactor, 21:44910(P)
fabrication for Magnox reactor, development of equipment and methods for, 25:52427 (A/CONF.49/P-490)
fabrication for recycle tests, 25:2791 (ORNL-4570, pp 195-200)
fabrication for research reactors, development of methods for, 25:29924 (ORNL-4630, pp 233-8)
fabrication for Westinghouse water-cooled reactors, facility for, 25:311
fabrication for ZPPR, 21:31898(R) (ANL-7329)
fabrication for ZPR, quality control in, 23:43955 (CONF-680506-, pp 73-95)
fabrication from fueled spheres, 24:30018 (CONF-700502-, pp 310-22)
fabrication from reprocessed fuel, design of argon fuel cell for, 22:27879
fabrication from sol-gel microspheres, 22:26073 (ORNL-TM-2205)
fabrication from sol-gel plutonium dioxide—uranium dioxide, methods for, 22:8704 (ORNL-4170, pp 124-7)
fabrication graphite clad coated particle, for high temperature gas cooled reactors, 25:6005
fabrication in Argentina of, economic analysis of, 22:3931 (NP-16987)
fabrication in Argentina, programs for, 25:52428 (A/CONF.49/P-561)
fabrication in France, methods for, 25:6847
fabrication in Italy, operations of COREN for, 24:18802
fabrication in Japan of assemblies of experiment program fast breeder, 24:18718(T) (JAPFNR-2)
fabrication in Japan of, review of, 23:31151
fabrication in Japan, development of automated safeguards systems for facilities for, 25:51746 (A/CONF.49/P-265)
fabrication in Netherlands of, quality control and safety requirements for, 24:20652
fabrication in Romania, industrial prospects for economic, 25:49393
fabrication in Spain, 22:1787
fabrication in Switzerland, prospects to 1980 for, 25:35313
fabrication in U.K. of, description of UKAEA, 23:13508
fabrication in UK to 1990, proposed methods for disposing of radioactive waste from, 25:51750 (A/CONF.49/P-512)
fabrication in USSR of, 24:2070
fabrication investment for power, 23:28386
fabrication method for, 22:12503(P)
fabrication method for grooved coaxial tube-type, 22:10109(P)
fabrication method for prevention of end-cap deformation, 22:1892(P)
fabrication methods and properties of thorium-uranium, review of, 24:34924 (ORNL-4557)
fabrication methods for plutonia—urania, 21:17536(R) (EURAEC-1742)
fabrication methods for plutonium, 22:6037
fabrication methods for uranium metal, oxide base, and plate-type, 22:12486
fabrication methods in Japan, 22:14177
fabrication of, 21:24739
fabrication of, 22:14463
fabrication of 0.01 mm metal-clad, description of end-plug welding, 22:42464(P)
fabrication of 100 to 300 MW(e) fast breeder, description of, 22:18529
fabrication of 1000 MW(e) gas-cooled fast breeder reactor Hastelloy X-clad uranium oxide (UO_2) pellet-type, description of, 23:7389(R) (GA-7645)
fabrication of 1000 MW(e) GE-LMFBR plutonium oxide (PuO_2)—uranium oxide (UO_2), economics for, 23:2033 (ORNL-TM-2344)
fabrication of 1000 MW(e) LMFBR, trade-off studies of on-site versus off-site, 24:1965 (BAW-1328(Vol.4))
fabrication of 19- and 28-tube assemblies of, method for, 23:6045(P)
fabrication of 50 MW(e) Dodewaard Power Reactor uranium oxide (UO_2) pellet-type, description of, 23:9091(R) (EUR-4069)
fabrication of advanced spherical beryllia, 21:38448 (GA-6836)
fabrication of aluminum alloy-clad plate, with aluminum—uranium oxide (U_3O_8) cermet cores, 23:2134(T) (ORNL-tr-1830)

fabrication of aluminum clad tubular, by hot-swaging, 22:26025(P)
fabrication of aluminum clad, oblong parallel-spaced multi-plate, description of, 22:25160(P)
fabrication of aluminum plate-type, for blistering testing in simulated HFIR elements, 24:4829 (ORNL-4440, pp 192-215)
fabrication of aluminum—thorium dioxide-base dispersion-type, 23:46113
fabrication of aluminum—uranium alloy by coextrusion and drawing, 21:24735
fabrication of aluminum—uranium alloy, by casting and rolling, 22:49706(P)
fabrication of aluminum—uranium alloy, improved method for, 22:6973(P)
fabrication of aluminum—uranium aluminide, for dogbone-type deformation tests, 23:20537 (ORNL-4350, pp 260-89)
fabrication of aluminum—uranium oxide (U_3O_8) and aluminum—uranium intermetallics, description of techniques for, 22:37541 (ORNL-TM-2197)
fabrication of aluminum—uranium oxide cermet, 22:28895
fabrication of aluminum—uranium oxide cermet, method for, 23:48514
fabrication of aluminum—uranium oxide, for dogbone-type deformation tests, 23:20537 (ORNL-4350, pp 260-89)
fabrication of aluminum-clad actinide alloy, by extrusion, 23:36041(P)
fabrication of aluminum-clad aluminum—uranium, methods for, 24:8074
fabrication of aluminum-clad plates containing bulk fuel, 21:18203(R) (IDO-17218)
fabrication of aluminum-clad uranium oxide—aluminum cermet, method for, 23:34072
fabrication of aluminum-clad uranium-233 oxide (UO_2) plate, by cold-pressing powder compacts, 22:14241 (AAEC/TM-404)
fabrication of aluminum-matrix, containing uranium or uranium oxide, 23:8273 (ORNL-4370, pp 101-15)
fabrication of annular and tube-in-shell uranium dioxide, description of vibratory compaction method for, 22:28891
fabrication of annular sintered-pellet core surrounded by granular fuel and enriched helical wire, description of, 22:25194(P)
fabrication of Argonne Advanced Research Reactor niobium coated zirconium boride (ZrB_2) burnable poison stainless steel—uranium oxide (UO_2) dispersion plate type, effects on boron loss of techniques for, 23:28547 (ANL-7477)
fabrication of assemblies, method of, 22:12503(P)
fabrication of blanket- and seed-type, containing uranium-233 oxide in pellet form, 21:38763
fabrication of boiling reactor, description of improved processes for, 23:4222
fabrication of boride-containing uranium dioxide, 22:11034(P)
fabrication of Canada reactors, description of, 23:5986
fabrication of CANDU type zirconium alloy tube, comparison of welding methods for, 24:16202
fabrication of carbide, method for, 22:43639(P)
fabrication of carbon-containing resin-bonded stick-type silicon carbide (SiC)-coated uranium oxide (UO_2) and thorium oxide (ThO_2), description of, 22:42200(R) (ORNL-4200)
fabrication of carbon-matrix ceramic, method for, 25:13741(P)
fabrication of cartridge-type, coating process for particles consolidated in, 24:48873 (DP-Report-369)
fabrication of cast aluminum—neptunium alloy, 24:10012 (BNWL-311)
fabrication of central bar-stabilized sheathed multiple stacked-wafer ceramic, description of, 22:42483(P)
fabrication of central-insulated molded molten metallic rod-type, for gas-cooled power reactors, 22:44848(P)
fabrication of ceramic and cermet fast breeder, 23:43120
fabrication of ceramic, by vibratory compaction, 22:8809
fabrication of ceramic, containing compressible mandril, 21:1936(P)
fabrication of ceramic, vibration compaction method for metal clad, 22:15243(P)
fabrication of clad actinide oxide, method for, 22:49804(P)
fabrication of clad ceramic foil-type tube-shaped, drawing method for, 23:19598(P)
fabrication of clad ceramic plutonium, welding methods for, 23:8172
fabrication of clad ceramic, end-closure welding for, 21:4992 (WAPD-TM-579)
fabrication of clad ceramic, method for, 21:27845(P)
fabrication of clad cylindrical-shaped, description of mandrel-formed electron beam-welded multiple-plate, 22:42571(P)
fabrication of clad mixed oxide pin-type, for testing of fuel—clad reactions, 25:49576 (ORNL-TM-3416, pp 3-51)
fabrication of clad non-metallic, swaging method for, 23:19597(P)
fabrication of clad pin-type, performance of planetary swager in, 24:32348 (GEMP-744)
fabrication of clad plutonia—urania, using electron beam welding, 21:30298
fabrication of clad plutonium dioxide—uranium dioxide pellets, shards, and spheres, equipment and methods for, 24:1065 (BAW-3714-11)
fabrication of clad plutonium or uranium alloy, method for, 23:36049(P)
fabrication of clad plutonium—uranium carbide, for irradiation testing in EBR-II, 21:42732 (UNC-5170)
fabrication of clad rod, with deformation-free end-plugs, 22:14356(P)
fabrication of clad UAl_3— and UO_2—stainless steel dispersion plates, 21:18203(R) (IDO-17218)
fabrication of clad uranium dioxide, for in-pile irradiation testing, 23:48507 (GEAP-10032)
fabrication of clad uranium silicide, method for, 25:35540(P)
fabrication of clad uranium—plutonium alloy rods, 21:11203
fabrication of clad, method for control of expansion during, 22:49802(P)
fabrication of clad-oxide, remote facility for, 21:5705 (ORNL-P-2391)
fabrication of cladding for, description of high hydrostatic pressure support container for, 22:25183(P)
fabrication of clusters of clad, welding method for attachment to cluster spacer grids, 23:38940(P)
fabrication of coated particle, 24:40991 (DP-Report-212)
fabrication of coated particle, 25:5990(R) (ORNL-4589)
fabrication of coated particle gas cooled, for recycle testing, 25:36977(R) (GA-10501)
fabrication of coated particle type gas cooled, for recycle testing, 25:28633(R) (GA-10399)
fabrication of coated particle type gas cooled, for recycle testing, 25:8050(R) (GA-10288)
fabrication of coated particle urania, 21:38463(R) (ORNL-4133)
fabrication of coated sintered ceramic bar-type, description of hot-pressing end-plug enclosing, 22:42466(P)
fabrication of coated thorium carbide—uranium carbide and uranium carbide—zirconium carbide Dragon, 24:44756 (DP-Report-356)
fabrication of coated-particle carbide, equipment and method development at TURF for, 23:16511 (ORNL-4275, pp 57-87)
fabrication of coated-particle cored, handbook on, 23:6715 (ORNL-4324)
fabrication of collapsed clad, for irradiation testing in supercritical water-cooled in-pile loop, 22:42214 (WCAP-3374-8)
fabrication of compacted powder-insulated bar-type, description of, 22:42547(P)
fabrication of compacted, with turbulence promoting cladding, 23:33942(P)
fabrication of concentric cylinder-clad annular-fueled tube-type, method for, 22:44935(P)
fabrication of concentric cylinder-clad sealed-edge multiple-section tube-type, method for, 22:44934(P)
fabrication of concentric layers, 21:24735
fabrication of concentric metal tubes for test-type, method for, 22:49696(P)
fabrication of cooling-duct-penetrated sintered plutonium oxide (PuO_2)—uranium oxide (UO_2) rings, description of vibration-compaction, 22:37577(P)
fabrication of cylindrical pin-type, 23:33310(P)
fabrication of cylindrical resin-bonded, method for, 23:33943(P)
fabrication of cylindrical, annular sleeve and support device for, 23:37773(P)
fabrication of cylindrical, description of method for, 24:20653(P)
fabrication of cylindrical, method for, 23:33944(P)
fabrication of dense urania, by extrusion and hot pressing, 21:30289
fabrication of dispersed stress-resistant, with additives of cool tars and graphite, 23:2138(P)
fabrication of dispersion strengthened graphite, 23:36190(P)
fabrication of dispersion-type, 21:13304(P)
fabrication of dispersion-type, variables in, 24:3048 (ORNL-4470, pp 94-111)
fabrication of Dragon, safety aspects of facility for, 25:24620 (DP-Report-441)
fabrication of dual-layer sandwich-clad pressure-formed plate-type, method for, 22:44936(P)
fabrication of EBR-2 high- and low-power plutonium carbide (PuC)—uranium carbide (UC) rod-type, description of, 23:4220(R) (UNC-5224)
fabrication of EBR-2 stainless steel clad plutonium nitride (PuN)—uranium nitride (UN) pellet type, 24:7174
fabrication of EBR-II, 21:12231(R) (ANL-7267)
fabrication of EBR-II 37-pin, equipment and method development for, 24:17360(R) (WARD-4135-1)
fabrication of EBR-II, following reprocessing by melt refining, remote, 23:38946
fabrication of ECEL Core 20 hexagon shaped stainless steel clad uranium oxide (UO_2) pin type, 24:20544(R) (AI-AEC-12911)
fabrication of encapsulated, for ORR and TREAT testing, 24:17393 (ORNL-4480, pp 3-35)
fabrication of end-plugs and sheaths for, description of argon-arc Y-shaped groove welding, 22:42467(P)
fabrication of end-plugs and thin-walled sheaths for helium-filled pin-type, description of argon-arc and helium-arc welding, 22:42465(P)
fabrication of EVESR Mark IV, using urania powder, 21:27675 (GEAP-5097)
fabrication of fast breeder, description of, 22:18527
fabrication of fast reactor plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, procedures for, 23:31166(R) (NUMEC-3524-58)
fabrication of fast reactor plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, problems with dimensional control in, 23:31167(R) (NUMEC-3524-62)
fabrication of fast, economics analysis for, 21:35573 (EURFNR-313)
fabrication of fast, equipment for, 25:54092 (A/CONF.49/P-609)
fabrication of fast, summary of Japan program for, 24:5528 (JAERI-1182)
fabrication of FFTF pellet type, 23:33079(R) (BNWL-941)
fabrication of FFTF plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:7180
fabrication of FFTF, data acquisition system for, 24:7179
fabrication of finned cladding for, 21:46984(P)
fabrication of foil-containing TR-1 natural and enriched uranium, description of, 22:35592 (CNAEM-47)
fabrication of four rod-cluster Zircaloy-2 clad 87 percent density uranium oxide (UO_2), 22:16280 (GEAP-5100-H)
fabrication of four rod-cluster Zircaloy-2 clad uranium oxide (UO_2), 22:16281 (GEAP-5100-K)
fabrication of FTR pin type assemblies of, 23:33079(R) (BNWL-941)
fabrication of FTR, comparison of techniques for, 23:31193(R) (BNWL-567)
fabrication of gas cooled and water cooled, description of U. S. facilities for, 25:39130 (A/CONF.49/P-62)
fabrication of gas cooled, for recycle testing, 25:48257(R) (GA-10661)
fabrication of GETR Zircaloy 2-clad uranium oxide (UO_2), description of, 23:6021 (GEAP-5642)
fabrication of graphite clad, with bonded coated particle beds, 24:50109 (CONF-700401-, pp 456-73)
fabrication of graphite-coated particulate carbide, nitride, or oxide, method for, 24:48882(P)
fabrication of grid type cermet, methods for, 22:8816(P)
fabrication of grid-type assemblies of, development of methods for, 24:23506(R) (WARD-4135-4)
fabrication of grid-type subassemblies for EBR-II and FFTF, development of methods for, 23:22620(R) (WARD-3791-28).
fabrication of heavy water-moderated water-cooled silicon oxide (SiO_2)—uranium oxide (UO_2) cylindrical rod, description of, 22:30262
fabrication of helical, method of, 22:18615(P)
fabrication of helically seamed, 22:8285(P)
fabrication of helically seamed, method for, 22:8285(P)
fabrication of helium and sodium bonded mixed carbide, for LMFBR, (E), 22:8807(R) (WCAP-3791-10)
fabrication of helium-bonded, for radiation testing, 24:19498(R) (UNC-5251)
fabrication of hexagonal thorium—uranium, for unclad metal breeder reactor, 25:58185 (ORNL-TM-3499)
fabrication of HFIR, welding techniques for, 21:38731
fabrication of high and low density combination, method for, 23:41712(P)
fabrication of high heat conductivity, description of method for, 22:42451(P)
fabrication of high temperature gas cooled, 21:38463(R) (ORNL-4133)
fabrication of high temperature gas cooled, development of methods for, 25:54087 (A/CONF.49/P-494)
fabrication of high-density uranium-235-enriched, 24:10029(P)
fabrication of hollow, method for, 23:27149(P)
fabrication of HTGR, 24:41396(R) (ORNL-TM-3112)
fabrication of HTGR, 24:41395(R) (ORNL-TM-3088)
fabrication of HTGR, conceptual methods for, 23:34896(R) (GA-8356)
fabrication of HTGR, recycle program for, 24:31445(R) (ORNL-TM-3004)
fabrication of HWOCR EXP-WR1-951, for fuel string radiation test, 21:40524 (AI-CE-44)
fabrication of HWOCR EXP-WR1-951, for radiation testing, 21:40524 (AI-CE-44)
fabrication of HWOCR prototype, 21:38432(R) (AI-CE-4)
fabrication of impregnated graphite sphere loaded, for AVR, 23:8294
fabrication of instrumented, brazing and welding methods for, 24:42082
fabrication of instrumented, for VBWR tests, 21:7874(R) (GEAP-3898)
fabrication of interconnected parallel arranged vented pin type, method for, 24:18796(P)
fabrication of jacket end pieces for, 21:16587(P)
fabrication of joints in graphite envelopes and end-plugs of, by electric-resistance heating, 22:43641(P)
fabrication of laminated sheets of actinide containing unitary sintered refractory metal, description of, 22:37598(P)
fabrication of laminated, metallic, and oxide, in France, 21:16583
fabrication of Latina-type, description of Italian plant for, 24:17354
fabrication of magnesium powder coated uranium, description of electrophoresis, 22:42489(P)
fabrication of magnesium—zirconium-clad, in France, methods for, 25:6847
fabrication of magnesium-coated uranium rod-type, description of method for, 22:42572(P)
fabrication of Magnox clad uranium rod, description of compression at 100 to 380°C for, 22:14354(P)
fabrication of Mark II EBWR-II, 21:31898(R) (ANL-7329)
fabrication of metal-clad cermet-type, method for, 25:52431(P)
fabrication of metal-clad fissile carbide pellet-type, description of, 22:42548(P)
fabrication of metal-clad graphite-centered uranium oxide (UO_2) or plutonium oxide (PuO_2), description of, 23:11359(P)
fabrication of metal-clad liquid metal-insulated sheathed bar-type plutonium, description of, 22:42484(P)
fabrication of metal-insulated stainless steel-clad uranium carbide, description of, 22:42485(P)
fabrication of metallic clad nonsintered ceramic, vibratory compacting method for, 22:8814(P)
fabrication of metallic, for water-cooled reactors, 22:41024(P)
fabrication of mixed oxide multi-pin, development of method for, 24:46773(R) (WARD-4135-8)
fabrication of mixed oxide, limit-of-error calculations for materials acounting methods for, 25:48794 (CONF-710617-29)
fabrication of mixed oxide, methods for, 23:22620(R) (WARD-3791-28).
fabrication of mixed-oxide, powder filling and tamping characteristics for, 22:30343(R) (EURAEC-1992)
fabrication of molded spherical, for high-temperature reactors, 24:30032

fabrication of molybdenum—uranium-base, method for, 23:29988
fabrication of molybdenum-clad depleted and enriched uranium nitride (UN) and uranium oxide (UO$_2$), description of, 22:37561 (N-68-22587)
fabrication of MPRE Type 316 stainless steel clad uranium oxide (UO$_2$) pellet type, 23:28582 (ORNL-3902)
fabrication of MTR aluminum alloy—plutonium alloy Phoenix, 23:37626
fabrication of MTR Phoenix, inspection procedures for, 23:37624
fabrication of MTR-type, description of, 22:18568
fabrication of multi-channel corrosion-resistant, for improved cooling, 21:8176(P)
fabrication of multi-plate, with groove positioned sandwich support plates, 22:14348(P)
fabrication of multiplate plutonium dioxide—uranium dioxide or uranium dioxide, method for simultaneous, 25:37998(P)
fabrication of multiple serially-connected thermionic diode, description of, 22:39835(P)
fabrication of multiple stacked and welded assemblies of end deformed plate type, 23:37821(P)
fabrication of nickel-coated uranium carbide, uranium nitride, and uranium oxide, 23:34073(P)
fabrication of NIE and NOE tubular, by extrusion and forging, 22:31335(R) (RMI-10)
fabrication of Norwegian, economics of, 22:16356 (KR-116)
fabrication of NPR tubular, closure method for, 23:35981 (HW-66628)
fabrication of Ozhenite-clad rod-shaped pellet-type metallic uranium alloy, description of, 23:11352 (BNWL-919, pp 8.1-3)
fabrication of packed bed pyrolytic carbon coated particles in resin filler, 25:28826(P)
fabrication of palladium—uranium alloy, for chemonuclear reactors, (E/T), 21:23710 (BNL-994, pp 45-69)
fabrication of parallel arranged plate type, 24:38643(P)
fabrication of particle-filled, equipment for, 21:1221 (JUL-378-RG)
fabrication of pellet shaped plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), 23:47342(R) (WARD-3791-37)
fabrication of pellet type subassemblies for, procedure for, 22:1777(R) (WCAP-3696-5)
fabrication of pellet-type uranium oxide (UO$_2$) and plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) for SEFOR, 23:7399(R) (GEAP-5673)
fabrication of pellet-type, with improved method for compression spring insertion, 22:14325(P)
fabrication of pelleted uranium dioxide, for Re-SuCo subcritical reactor, 22:49807
fabrication of pelleted-thoria, experiment design for, 21:21652 (WAPD-TM-589)
fabrication of Phoenix, 22:14289 (BNWL-635)
fabrication of Phoenix MTR plate-type, description of, 22:42164(R) (BNWL-775)
fabrication of pin type, by welding, 22:21674(R) (WARD-3791-12)
fabrication of pin-type, 23:20495(P)
fabrication of pin-type plutonium nitride—uranium nitride, for EBR-II testing, 24:10138 (BMI-1872, Sect.A)
fabrication of pin-type, for irradiation testing, 23:48509(R) (WARD-3791-36)
fabrication of pin-type, for radiation effects testing in capsules, 24:1104(R) (WARD-3791-40)
fabrication of pin-type, for use in multipin assemblies, 25:728(R) (WARD-4135-11)
fabrication of plate-type, 22:18618(P)
fabrication of plate-type aluminum-clad aluminum—uranium alloy, quality control standards for, 25:32658
fabrication of plate-type multi-density uranium oxide (U$_3$O$_8$), effects of metallurgical properties on, 22:37566
fabrication of plate-type, by diffusion bonding, 25:11375 (IN-1437, pp 24-59)
fabrication of plate-type, description of sealed-cylinder rolling, 22:48754(P)
fabrication of plate-type, electron beam welding method for, 24:4829 (ORNL-4440, pp 192-215)
fabrication of plate-type, for research reactors, 21:36813
fabrication of plate-type, reject reclamation by electron beam welding methods, 25:11375 (IN-1437, pp 24-59)
fabrication of plate-type, using uranium alloy fuel and aluminum alloy cladding, 23:34074(P)
fabrication of plutonia—thoria and plutonia—urania, 21:28811 (AECL-2675)
fabrication of plutonia—urania pins by vibratory compaction method, 21:35574 (EURFNR-314)
fabrication of plutonia—urania, by vibratory compaction, economics of, 21:15783 (BNWL-131-E)
fabrication of plutonia—urania, development of extrusion methods for, 21:6857(R) (NUMEC-3524-22)
fabrication of plutonia—urania, economics of, 21:14869 (BNWL-SA-1079)
fabrication of plutonium and uranium, in Germany, plant optimization and safeguards for, 23:41564 (KFK-910)
fabrication of plutonium carbide (PuC)—uranium carbide (UC) rods for EBR-2, 24:18724(R) (UNC-5233)
fabrication of plutonium carbide (PuC)—uranium carbide (UC) rods for EBR-2, 24:18726(R) (UNC-5248)
fabrication of plutonium carbide (PuC)—uranium carbide (UC) rods for EBR-2, 24:18725(R) (UNC-5238)
fabrication of plutonium carbide (PuC)—uranium carbide (UC) rods for EBR-2, 23:15679(R) (UNC-5193)
fabrication of plutonium containing, for recycle in thermal reactors, 24:24854
fabrication of plutonium dioxide—uranium dioxide, 23:16546 (EURAEC-2072)
fabrication of plutonium dioxide—uranium dioxide packed-pellet-type, development of methods for, 24:48870(R) (BAW-3714-18)
fabrication of plutonium dioxide—uranium dioxide rod-type, for meltdown studies in TREAT, 24:25767 (ANL-7417, pp 23)
fabrication of plutonium dioxide—uranium dioxide, design of development laboratory for, 25:51784
fabrication of plutonium dioxide—uranium dioxide, program for process development for, 25:37993 (A/CONF.49/P-63)
fabrication of plutonium dioxide—uranium dioxide, clad with type 316 stainless steel, 22:17189
fabrication of plutonium dioxide—uranium dioxide, by sol-gel process, 23:10252
fabrication of plutonium dioxide—uranium dioxide, sound vibration method for, 23:48548
fabrication of plutonium dioxide—uranium dioxide, by vapor cementation, 21:8157
fabrication of plutonium dioxide—uranium dioxide, using pellet-in-tube process, 22:7048
fabrication of plutonium oxide (PuO$_2$) and uranium oxide (UO$_2$), process facility description and cost estimates for, 22:18581 (BNWL-273(Vol.2))
fabrication of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pellet type, 25:28757(R) (GEAP-10010-27)
fabrication of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, 25:23335(R) (GEAP-10010-26)
fabrication of plutonium oxide (PuO$_2$)—uranium oxides (UO$_2$), 25:48268
fabrication of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, description of vibration compacted, 24:5573(P)
fabrication of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), description of vibratory compaction, 23:7429(R) (EURAEC-2065)
fabrication of plutonium oxide—uranium dioxide, criticality safety in, 22:748 (BNWL-SA-1388, pp 11.1-26)
fabrication of plutonium oxides (PuO$_2$)—uranium oxide (UO$_2$), for Prototype Fast Reactor, 22:14209
fabrication of plutonium phosphide—uranium carbide, vibratory compaction method for, 23:8278(P)
fabrication of plutonium reactivity-coefficient, radiation exposures to personnel during, 22:43526 (ANL-7299, pp 114-19)
fabrication of plutonium rods, 21:40695(R) (EURAEC-1886)
fabrication of plutonium, description of safeguard exercise for, 23:40804 (KFK-901)
fabrication of plutonium, for fast breeder reactor, economics of, 25:52423 (A/CONF.49/P-274)
fabrication of plutonium, industrial methods for, 23:19846
fabrication of plutonium, plant inventory methods for, 23:40971 (KFK-903)
fabrication of plutonium, safety procedures for, 22:36439 (ANL-7365)
fabrication of plutonium—uranium, 22:21776(R) (EURAEC-1937)
fabrication of plutonium—uranium carbide, for GETR testing, 22:38626(R) (WARD-3791-18)
fabrication of plutonium—uranium—zirconium alloy, 22:43627 (ANL-7299, pp 14-113)
fabrication of plutonium—zirconium dioxide in zirconium-alloy matrix, 21:5647(P)
fabrication of plutonium-242, 21:1421(R) (ORNL-3965)
fabrication of plutonium-bearing, design and operation of equipment for, 24:31548
fabrication of plutonium-bearing, for fast and thermal reactors, 25:52425 (A/CONF.49/P-379)
fabrication of potassium—sodium bonded pin-type nitride, using stainless steel cladding, 25:8910 (ORNL-4600, pp 41-56)
fabrication of power reactor, description of, 23:4223
fabrication of power reactor, welding techniques for and closures in, 22:33170
fabrication of power, survey of capacity in Germany for, 24:52923
fabrication of pressurized tubular, equipment and method for, 24:8180(P)
fabrication of pressurized-water reactor type 304 stainless steel-clad enriched uranium oxide (UO$_2$) pellet-type, description of, 22:30164(R) (WCAP-3703)
fabrication of prototype CIRENE, 24:18657
fabrication of prototype twisted tape clusters, 22:9996(R) (EUR-3651)
fabrication of prototype Zircaloy-4 clad uranium oxide (UO$_2$) pellet, 24:50121 (EUR-4406)
fabrication of pyrolytic carbon coated thorium carbide (ThC$_2$)—uranium carbide (UC$_2$) particle, 24:43691(R) (DP-Report-355)
fabrication of pyrolytic-carbon-coated, 21:38463(R) (ORNL-4133)
fabrication of rebuilt BONUS superheater, 21:31946 (ORNL-4072)
fabrication of recycle HTGR, cost estimates for, 23:29982 (GAMD-9145)
fabrication of resin coated particle type, description of agglomeration, 24:38641(P)
fabrication of rod-type thoria, 22:7054(P)
fabrication of rod-type, by vibrocompression of monodimensional ceramic powder, 23:32057
fabrication of rod-type, for EBR—II testing, 24:17393 (ORNL-4480, pp 3-35)
fabrication of SAP-clad enriched uranium, 22:19493
fabrication of SAP-clad, welding methods for, 21:30299
fabrication of SEFOR plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pellet type, 23:33082(R) (GEAP-5754)
fabrication of SEFOR plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, 23:26085(R) (GEAP-5705)
fabrication of SEFOR plutonium oxide (PuO$_2$)—uranium dioxide (UO$_2$) pellet type, 23:47266(R) (GEAP-10010)
fabrication of SENA reactor, method for, 23:27147
fabrication of sheathed compacted spheres for, vibratory-compaction, 21:13249(P)
fabrication of silicon connected pyrolytic carbon coated ceramic particle type, 24:26840(P)
fabrication of simulated irradiated plutonium dioxide—uranium dioxide, 23:51142(T) (BNWL-tr-43)
fabrication of sintered oxide cylindrical pellet-type, description of optimum, 22:32838
fabrication of sintered uranium dioxide pin-type, vibratory compaction method for single cycle, 24:12459
fabrication of sintered uranium dioxide—uranium carbide (UO$_2$—UC), for the DON reactor, 22:10059 (JEN-173-DMe/I-14)
fabrication of sintered uranium—zirconium, by powder metallurgy, 21:9089 (SEP-40(Del.))
fabrication of sodium-bonded carbide, 23:12396(R) (WARD-3791-27)
fabrication of sodium-bonded, for radiation testing, 24:19498(R) (UNC-5251)
fabrication of sodium-cooled fast reactor, description of, 22:18511
fabrication of sol-gel-derived plutonium dioxide—uranium dioxide rod-type, by vibratory compaction, 23:16512 (ORNL-4275, pp 99-120)
fabrication of sol-gel-derived thorium dioxide—plutonium dioxide rods, by vibratory compaction, 23:16512 (ORNL-4275, pp 99-120)
fabrication of solid solution plutonium nitride—uranium nitride pin-type, 24:34969 (BMI-1882, Sect.A)
fabrication of spaced multiple-rod helix-convolution, description of extrusion, 22:42436(P)
fabrication of special purpose, for ZPPR experiments, 24:25632 (ANL-7417, pp 3-22)
fabrication of sphere-loaded tubular, producing pressure collapsed peas-in-pod configuration, 23:21563(P)
fabrication of spherical graphite, 21:38789(P)
fabrication of spherical graphite coated, with core matrix of expanded graphite and fuel mixture, 23:28637(P)
fabrication of spherical graphite-coated, compaction method for, 21:38799(P)
fabrication of spherical, for high temperature reactors, 21:44896(P)
fabrication of spherical, for pebble-bed reactors, method for, 24:10150(P)
fabrication of stainless steel clad uranium carbide (UC) fast, 24:41048 (TRG-Report-1911, pp 253-65)
fabrication of stainless steel clad uranium carbide, with diffusion barriers, 22:36533(P)
fabrication of stainless steel clad uranium oxide (UO$_2$) pin type, 24:47894 (BNWL-1418)
fabrication of stainless steel clad, by annealing and swaging, 22:45761(P)
fabrication of stainless steel- and Hastelloy X-clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) vented-type, 23:17188(R) (GA-8107)
fabrication of stainless steel—uranium dioxide dispersion-type, 24:10142 (GEMP-719)
fabrication of stainless steel—uranium dioxide, incorporating zirconium boride poison, 22:4856
fabrication of stainless steel—uranium nitride dispersion-type, 24:10142 (GEMP-719)
fabrication of stainless steel-canned urania, for Calder Hall channel in BEPO, 21:36900 (AERE-R-2876)
fabrication of stainless steel-clad, 21:28733
fabrication of stainless steel-clad enriched uranium, 22:19493
fabrication of stainless steel-clad plutonia-urania, for testing in EBR-II, 21:40537 (ANL-7349, pp 115-33)
fabrication of stainless steel-clad plutonium carbide—uranium carbide, end plug welding method for, 24:32349 (WARD-3791-44)
fabrication of stainless steel-clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), description of, 22:32970(R) (GEAP-5584)
fabrication of stainless steel-clad pressurized-water, containing sintered uranium oxide pellets, quality control in, 23:41714
fabrication of stainless steel-clad uranium dioxide, for Masurca critical assembly, 23:51011
fabrication of stainless steel-clad uranium dioxide, 21:26891(P)
fabrication of stainless steel-clad, method for, 23:41584(P)
fabrication of stainless steel-clad, using nickel phosphide-clad spacers, 21:10224
fabrication of steel tube canned stacked pellet, description of hot gas or hydraulic pressure, 23:37802(P)
fabrication of superheater—steam, standards for, 21:38599
fabrication of swelling-resistant uranium, for WR-1 Whiteshell Reactor, 23:51006 (BNWL-1129)
fabrication of thin foil clad uranium, 22:20865(P)
fabrication of thin-walled metallic tube powder-filled, description of longitudinal helical groove, 22:39944(P)
fabrication of thoria—urania, containing uranium-233 pelletized oxide fuels, 21:14872 (WAPD-TM-588)
fabrication of thoria-urania, remote equipment for, 21:6861
fabrication of thorium dioxide—uranium dioxide and zircaloy, equipment and methods for, 21:16632(R) (BAW-3460-1)
fabrication of thorium, technology of, 22:47053
fabrication of thorium—uranium alloy compacted powder, for liquid metal cooled fast breeder reactor, 24:31124(R) (ORNL-4538)
fabrication of thorium—uranium pellet, 23:21510 (BNL-13208)
fabrication of titanium nitride-coated zirconium-clad uranium oxide (UO$_2$) pellet-type, description of, 22:42553(P)
fabrication of TTA-1 for JPDR, 21:30199
fabrication of tube, use of Zircaloy-2 as cladding in, 21:34874
fabrication of tube-type, jig with blade-spring-guided plunger for disk-separated annular sleeve and cylindrical end-support for, 23:19591(P)
fabrication of tubular sheath-enclosed, welding technique for annular end-cap, 22:42482(P)

fabrication of tubular star shaped cross section compact powder, description of movable wall mold, 23:37843(P)
fabrication of tubular uranium—Zircaloy-2, by extrusion, 21:36814
fabrication of twisted-tape, 21:38585
fabrication of two component uranium-base, 22:38605(P)
fabrication of Type 316 or Type 347 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), description of, 22:27423
fabrication of Type 316 stainless steel clad plutonium nitride (PuN)—uranium nitride (UN) pin type, 25:12795(R) (BMI-1893)
fabrication of Type 316 stainless steel clad, brazing and welding procedures for, 23:22620(R) (WARD-3791-28).
fabrication of unclad plutonium dioxide—uranium dioxide EBR-II pin-type, critical path scheduling for, 24:36951 (ORNL-4520, pp 3-56)
fabrication of uniform-size powdered uranium dioxide, by vibrocompaction, 24:27816
fabrication of United Kingdom power reactor, economics of, 22:27441
fabrication of urania, for Saxton Power Reactor 9 x 9 assembly, 21:46867 (WCAP-3269-59)
fabrication of urania—plutonia, for fast reactors, 21:23598(R) (EURFNR-268)
fabrication of uranium carbide rod-type, description of pilot plant, 23:32048 (CEA-R-3745)
fabrication of uranium carbide, dispersed in silicon carbide, 22:52241
fabrication of uranium carbide, hot pressing method for, 22:52240
fabrication of uranium dioxide, 21:28816 (NP-16721)
fabrication of uranium dioxide loaded, by swaging and vibration compaction, 23:18259(R) (PNCT-AR-67)
fabrication of uranium dioxide, by powder compaction, 21:18311(R) (CEND-2863-243)
fabrication of uranium dioxide, by vibratory compaction of spherical particles, 23:44006
fabrication of uranium dioxide, in Japan, 21:9213
fabrication of uranium dioxide, incorporating boride burnable poison, 23:36185(P)
fabrication of uranium dioxide, incorporating tetraboron carbide, 21:34169 (CEND-3107-306)
fabrication of uranium dioxide, vibratory compaction method for, 22:2679
fabrication of uranium monocarbide, process for, 23:39019 (EUR-4273)
fabrication of uranium or uranium alloy, method for, 21:23775(P)
fabrication of uranium oxide (UO_2) pin-type, methods and equipment for vibratory compaction, 23:24035
fabrication of uranium oxide (UO_2), cost analysis for, 25:37022
fabrication of uranium oxide (UO_2)—tungsten thin plate and rod, description of hot isostatic compaction, 22:39905 (N-68-21705)
fabrication of uranium oxide plate-type, for irradiation testing, 23:20537 (ORNL-4350, pp 260-89)
fabrication of uranium, by rotary-piercing, 22:2588 (NLCO-991)
fabrication of uranium, dispersed in carbon matrix, 23:33945(P)
fabrication of uranium, extrusion and upset-forging methods for, 21:16573 (RMI-7)
fabrication of uranium, methods of, 21:30310(P)
fabrication of uranium—alloy, process development for, 21:34100 (EUR-3471.i)
fabrication of uranium—plutonium—zirconium stainless steel jacketed, 22:16265(R) (ANL-7403)
fabrication of uranium—Zircaloy driver-type, 21:24736
fabrication of uranium-233-enriched uranium dioxide, direct, 22:23858 (CONF-660524-, pp 537-45)
fabrication of uranium-235 enriched, with burnable poison dispersion, 21:46994(P)
fabrication of uranium-235-enriched plutonium dioxide—uranium dioxide sol-gel microspheres, pellets, and shards for, 24:12452(R) (BAW-3714-15)
fabrication of vibratorily compacted, for Doppler coefficient measurements, 24:19394 (ANL-7647)
fabrication of weld sealed canned, description of vertical rod squirrel cage support structure for hydrostatic pressure, 23:37804(P)
fabrication of welded end-plug-sealed clad rod-type, description of temporary plug support for, 22:42501(P)
fabrication of wire-wrapped, for Canadian power reactors, 22:35418 (AECL-3089)
fabrication of WWRM-type, design of press for, 23:41700 (INR-1050)
fabrication of yttrium hydride moderator—fuel particle dispersion, for spacecraft reactors, 22:23885(P)
fabrication of Zircaloy 2-clad aluminum alloy—uranium alloy-lined uranium ceramics and cermets cylindrical, description of slip-fitting and swaging, 22:48769(P)
fabrication of Zircaloy 2-clad thorium—uranium, description of, 22:53456 (BNWL-861)
fabrication of Zircaloy clad uranium oxide (UO_2), for Dodewaard reactor, 24:9069
fabrication of Zircaloy-2 clad sintered uranium oxide (UO_2) pellets four rod cluster, 22:16282 (GEAP-5100-L)
fabrication of Zircaloy-2 clad uranium oxide (UO_2), for high burnup irradiation testing in VBWR and Dresden, 25:44120 (GEAP-10355)
fabrication of Zircaloy-2 clad uranium oxide (UO_2) compacted powder and cored pellet rod cluster, 22:16279 (GEAP-5100-2)
fabrication of Zircaloy-2 clad uranium oxide (UO_2) pellet, with axial voids, 22:30392(P)
fabrication of Zircaloy-2-clad aluminum—plutonium, methods for, 22:43552
fabrication of Zircaloy-2-clad EPW-6/8A, 22:4868 (GEAP-5100-G)
fabrication of Zircaloy-2-clad uranium dioxide, review of Swedish methods for, 25:27272 (CONF-700903-18)
fabrication of zircaloy-clad enriched uranium, 22:19493
fabrication of Zircaloy-clad uranium dioxide, 22:16356 (KR-116)
fabrication of Zircaloy-clad uranium dioxide rod-type, at Columbia, S. C, 25:46584
fabrication of Zircaloy-clad uranium dioxide, for irradiation testing, 23:46148(R) (GEAP-10042)
fabrication of Zircaloy-clad uranium-core tubular, for heavy water-moderated and -cooled reactors, 21:14808
fabrication of Zircaloy-clad, brazing and welding procedures for, 22:25156
fabrication of zirconium alloy-clad nickel—iron—chromium alloy-brazed stainless steel-spaced multiple uranium oxide (UO_2) pellet-type, description of, 22:42503(P)
fabrication of zirconium clad uranium oxide (UO_2) stacked pellet, with low enriched stress relieving free fitting end pellets, 23:37806(P)
fabrication of, analytical procedures for, 21:19582
fabrication of, application of safeguards to plant for nuclear materials management during, 21:36799 (BNWL-458)
fabrication of, Argentina industrial capacity for, 22:3837 (NP-16984)
fabrication of, calculated inventory differences method for safeguarding nuclear materials during, 25:48783 (CONF-710617-9)
fabrication of, containing uranium oxide pellets, 22:19506(P)
fabrication of, conversion of uranium hexafluoride to base materials for, 23:39033
fabrication of, cost factors in, 24:53004
fabrication of, density and thickness control during, 22:7052(P)
fabrication of, description of Philips quality control and production techniques for, 23:21570
fabrication of, design of equipment and processes for, 21:1421(R) (ORNL-3965)
fabrication of, design of vibrating device for, 22:6520(P)
fabrication of, development of methods for, 24:17345 (ORNL-4480, pp 213-44)
fabrication of, economic analysis of, 24:2341 (ORNL-4470, pp 199-203)
fabrication of, economics of, 21:38432(R) (AI-CE-4)
fabrication of, economics of, 21:11190 (ANL-7155, pp 1-166)
fabrication of, economics of materials and fuels for, 24:9083
fabrication of, equipment design and method for, 24:6183(P)
fabrication of, facilities in Japan for, 24:31071
fabrication of, for graphite-gas and heavy water-gas reactors, 21:1227
fabrication of, fuel cycle effects on, 22:14161
fabrication of, in Euratom, 21:14129(R) (NP-16468(Vol.2))
fabrication of, incorporating burnable poison and fissionable oxide, 22:11024(P)
fabrication of, incorporating helically positioned wire on can exterior, 24:23441(P)
fabrication of, Japanese safety measures for, 25:21376
fabrication of, mathematical model for evaluating efficiency of safeguards systems in facilities for, 25:51844
fabrication of, method for, 23:38941(P)
fabrication of, method for, 23:41585(P)
fabrication of, method for, 25:58355(P)
fabrication of, method for air removal during, 21:38798(P)
fabrication of, optimization of plant size for, 23:7665 (ORNL-TM-2346)
fabrication of, packing of solid particles in, 23:14310
fabrication of, problems in, 24:32359
fabrication of, problems with, 24:38640
fabrication of, properties of radioisotope neutron sources for safeguards system for, 25:51767 (LA-DC-12294)
fabrication of, review of 1964 Geneva Conference papers on, 24:22735
fabrication of, review of Ispra research on, 23:17645 (EUR-3940-3)
fabrication of, review of methods for, 23:8145
fabrication of, statistical tolerance limits for quality assurance during, 25:42033
fabrication of, technology of, 22:14188
fabrication of, Trisaia facility for remote-controlled, 22:33547
fabrication of, vib-swaging process for, 24:42224
fabrication of, vibratory compacting and swaging methods for, 22:28893
fabrication of, x-ray control of welding processes in, 22:43560(P)
fabrication or reprocessing of, stochastic model for estimating efficiency of safeguards operations in, 25:4273
fabrication parameters for, peak heat flux factor dependence on, 22:6140
fabrication plants for, computer programs for estimation of capital and operating costs of, 22:22882
fabrication plants in Euratom countries for, survey of, 23:19475
fabrication procedures for HFIR, 21:38732
fabrication procedures for HFIR 6061 aluminum alloy-clad aluminum alloy—boron carbide (B_4C)—uranium oxide (U_3O_8) plate-type, description of, 23:15678 (ORNL-4342)
fabrication procedures for Saxton 3 x 3 urania and cermet, 21:40584(R) (WCAP-3696-4)
fabrication procedures for SENA Power, 23:40285
fabrication procedures for sodium bonded mixed carbide, 24:29015 (LA-4393)
fabrication process for spherical pebble-bed type, 22:30403(P)
fabrication processes for, criticality safety requirements in, 22:10081 (NYO-9714)
fabrication processes for, description of, 22:48791
fabrication techniques for aluminum alloy—uranium alloy plate type, effects on boron dispersion of, 23:33118 (IN-1228, pp 20-73)
fabrication techniques for ceramic, description of, 22:14206
fabrication techniques for instrumented ATR plates, 22:53418 (ORNL-4268)
fabrication techniques for plate-type, 21:30308(P)
fabrication techniques for spherical, of uranium dioxide and graphite, 21:38796(P)
fabrication techniques for spiral-spacer-type fast breeder, 23:11239 (KFK-768)
fabrication techniques for, review of, 21:1878
fabrication techniques for, use of strips of fissile or fertile materials in, 21:19515(P)
fabrication using microspheres of plutonium—uranium dioxide, 23:32047(R) (BAW-3714-12)
fabrication, packaging, and storage of uranium-233—uranium-235- and uranium-235-containing, economics of, 23:48347 (GAMD-9367)
fabrication, properties, and structure of, for fast reactors, 21:11190 (ANL-7155, pp 1-166)
fabrication, properties, and testing of ultrathin palladium—uranium chemonuclear, 21:36808
failure analysis of bulk-oxide, computer program for, 21:8134
failure behavior of Zircaloy clad uranium oxide (UO_2) TREAT, use of transparent autoclave for observation of excursion accident, 24:18708 (CONF-690910-, pp 378-400)
failure behavior of Zircaloy-clad uranium oxide (UO_2) rod, during coolant-loss accidents in light-water reactors, 22:48655 (ORNL-TM-2347)
failure data on Zircaloy-4 clad, 21:38432(R) (AI-CE-4)
failure detection and identification of fast, methods for leaking, 25:60082 (ANL-7782)
failure detection and location system for FTR, design calculations for, 23:17246(R) (BNWL-985)
failure detection in fluid-cooled, sampling circuits and radiation detector system for, 22:47057(P)
failure detection in gas cooled reactors, fission product activity release monitoring method for, 25:15373 (AERE-R-6475)
failure detection in gas cooled, hot gas type detector for, 25:23419
failure detection in power reactors, comparison of methods for, 24:47866 (CEA-N-1356)
failure detection in WWR-M, use of Cherenkov detector for, 21:38674
failure detection in, description of lattice-arranged coolant-sample-pipes with fission product monitors for, 23:9259(P)
failure detection in, description of scintillation method for, 22:18584 (CEA-R-3330)
failure detection methods for gas cooled, 23:40294
failure detection methods in France for gas- and sodium-cooled, 23:13447 (NP-17751)
failure detection of Elk River Power Reactor, development of dry sipping technique for, 23:11122 (NUS-TM-ES-5)
failure detection of liquid metal cooled ceramic, xenon tagging techniques for, 25:6026
failure detection of liquid metal cooled ceramic, xenon tagging techniques for, 25:6025
failure detection system for, 23:9813(P)
failure detection system for gas cooled, design parameters and performance of, 24:45990
failure detection system for heavy water cooled, performance of delayed neutron, 24:28871
failure detection system for heavy water moderated research reactor, performance of γ radiation monitoring method for, 25:57118 (JAERI-Memo-4157, pp 44-50)
failure detection system for heavy water moderated research reactor, design parameters and performance of, 25:57117 (JAERI-Memo-4157, pp 23-43)
failure detection system for liquid metal cooled, development of delayed neutron monitoring, 25:57055 (JAERI-Memo-4157, pp 84-8)
failure detection system for liquid metal cooled, characteristics of fission products in liquid sodium for, (E/T), 25:26015 (ANL-7774)
failure detection system for water cooled MTR type, performance of, 25:12819 (JAERI-Memo-4196)
failure detection system for water cooled research reactor, performance of delayed neutron monitoring method for, 25:57119 (JAERI-Memo-4157, pp 51-65)
failure detection system for water cooled, during refueling, 24:45861
failure detection system for, description of alternating detector and shielding layers in, 24:11328(P)
failure detection system for, performance of precipitator and gas chromatography methods for, 25:57193 (JAERI-Memo-4157, pp 66-83)
failure detection systems for EBR-2, exposed fuel calibration of, 23:37584
failure detection systems for liquid sodium cooled, development of, 25:57056 (JAERI-Memo-4157, pp 89-100)
failure detection systems for, development and performance of, 25:57192 (JAERI-Memo-4157)
failure detection, description of dual-column M.S.-13X and M.S.-5A molecular sieves for, 22:48765(P)
failure detector for gas-cooled reactor, description of electrostatic precipitator chamber for, 22:6050(P)
failure detector for gas-cooled reactors, design of, 23:37547(P)
failure detector for, plugging meter and sampler for, 22:7788(R) (ANL-7382)
failure during coolant loss accidents, effects of assembly configurations on, (E), 25:41467
failure during gas coolant loss accidents, fission product release from, (E), 25:31608
failure in boiling water reactors, evaluation of detection methods for, 23:47136 (NUS-TM-S-33)
failure in CVTR, detection of, 21:19350 (CVNA-275)
failure in encapsulated fast, use of γ spectrometry for detection of, (E), 25:34359 (LA-4675)
failure in fast breeder reactors, fission product deposition in reactor systems following, 22:6020

failure in fast reactor accidents, mechanisms and propagation of, 25:8094 (BNWL-SA-3093(Vol.2), pp X.1-37)
failure in fast reactor, detection and measurement of fission products from, 24:33308 (ANL-7605)
failure in flowing sodium of fast oxide, TREAT tests of, 24:33450
failure in heavy water moderated reactors, digital system for automatic detection of, 23:21493
failure in liquid sodium- and NaK-cooled reactors, analysis of fission product release from, 23:19510 (AI-AEC-Memo-12790)
failure in loss-of-coolant accidents, 24:36356 (ORNL-4586, pp 98-117)
failure in sodium cooled reactors, delayed neutron monitoring for detection of, (E/T), 25:28698 (NP-18778)
failure in supercritical water loop, analysis of fission product release from, 22:46926 (WARD-3843-1)
failure in water reactors, sampling equipment for detection of, 21:10180(P)
failure in water-cooled reactors, effects on safety, 25:2610 (ORNL-4570, pp 205-12)
failure limits for liquid sodium cooled mixed oxide pin type, 25:6096
failure limits for Type 304 stainless steel-clad uranium oxide (UO_2) pellet-type, analysis of, 23:4377
failure modes of boiling and pressurized-water reactor Zircaloy 2 clad rod type, effects of coolant loss conditions on, 23:26048 (ORNL-TM-2548)
failure modes of Zircaloy clad, 24:46071(R) (ORNL-TM-3061)
failure modes of Zircaloy clad, measurement of prompt, 24:36051(R) (ORNL-TM-2984)
failure modes of Zircaloy clad, measurement of prompt, 24:11214(R) (ORNL-TM-2777)
failure monitoring system for gas-cooled, design of scintillation detector, 23:35476(P)
failure of ATR plate-type, during hydraulic proof testing, 21:40675(R) (IN-1083)
failure of Big Rock Point Power Reactor Zircaloy 2 clad uranium oxide (UO_2), fission product release from centermelt, 23:49513 (GEAP-10039)
failure of carbon coated bonded bed uranium carbide particle type, effects of temperature on, 24:4076(R) (ORNL-TM-2425)
failure of clad uranium dioxide, effects on reactor loss of coolant accidents, 24:2978 (ORNL-4470, pp 208-10)
failure of coated uranium oxide (UO_2) and thorium carbide (ThC_2)—uranium carbide (UC_2) particle type, cesium-137 release from, 24:22431(R) (ORNL-4511)
failure of CVTR rod-type, post-irradiation analysis of, 23:44024 (WCAP-3850-4)
failure of DIORIT, decontamination procedures following, 24:20598 (EIR-150(Pt.1))
failure of DIORIT, decontamination procedures following, 24:20599 (EIR-150(Pt.2))
failure of EBR-2, location and identification from fission product release of, 23:45079 (ANL-7543)
failure of EBR-2, xenon gas tag for identifying, 23:37529
failure of extruded beryllium cladding on, analysis of, 22:23780
failure of fast, coolant flow transient effects from fission gas release during, (E/T), 25:39278
failure of fast, description of equipment for high speed photographic analysis of, 23:49572 (ANL-7410, pp 229-337)
failure of fast, fission product identification for detection of, 25:39252 (CEA-Bib-195)
failure of FR-2 uranium oxide (UO_2), performance of detection system for, (E), 24:4103
failure of FR-2, detection system for, 24:4102
failure of gas cooled, performance of methods for detection of, (T), 25:34378(T) (JPRS-53069, pp 131-8)
failure of gas-cooled plate-type, dynamic pressure limits for, (E/T), 22:42389 (N-68-16227)
failure of Gundremmingen, use of wet sipping technique for detecting, 23:31130
failure of Halden Boiling Reactor, effects on operations of, 23:9177(R) (HPR-103)
failure of Halden reactor test, 21:31943(R) (NP-16803)
failure of Halden, fission product release from, 23:52381 (HPR-108)
failure of HBWR test assemblies IFA-130 and IFA-145, post-irradiation examination for, 23:19504(R) (HPR-104)
failure of HBWR, effects on operations of, 23:19504(R) (HPR-104)
failure of HFIR plutonium oxide (PuO_2) target, model analysis for, 24:7181
failure of Incoloy 800 and Hastelloy clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 22:25083(R) (GEAP-5541)
failure of Incoloy-800-clad EVESR, 21:30141 (GEAP-5416)
failure of Japanese Power Demonstration, Tokai Mura Power, and JRR, performance of detection system for, 24:4016
failure of liquid metal cooled fast breeder power reactor, performance requirements for delayed neutron monitoring for detection of, 23:31179 (ANL-7533)
failure of liquid metal cooled fast, apparatus and methods for detection of, 23:40458(P)
failure of liquid metal cooled fast, description of integral gas collecting liquid metal cooled sensor for, 23:43122(P)
failure of liquid metal cooled mixed oxide, effects of power transient fission gas pressure on, 25:6098
failure of liquid metal cooled, electromagnetic sampling of coolant for detection of, 24:11332(P)
failure of liquid sodium cooled fast, effects of fission gas release on propagation of, 23:37587
failure of liquid sodium cooled pin type, energy release from, 25:41538
failure of liquid sodium cooled uranium oxide (UO_2) pin type, energy release from, 25:41480
failure of liquid sodium cooled uranium oxide (UO_2) pellets, 25:57069(R) (ANL-7800)
failure of liquid sodium cooled, detection system for, 24:52761
failure of liquid sodium cooled, effects on coolant boiling of, 25:60117 (KFK-1380)
failure of liquid sodium cooled, facility for mockup testing of, 25:48291(R) (ORNL-TM-3411)
failure of liquid sodium cooled, instrumenation for detection of, 24:43729(R) (ANL/ST-2)
failure of liquid sodium cooled, mockup testing facility for, 25:57092(R) (ORNL-TM-3483)
failure of liquid sodium cooled, mockup testing facility for, 25:48290(R) (ORNL-TM-2663)
failure of liquid sodium cooled, monitoring system for, 24:47892(R) (BNWL-1200-4)
failure of liquid sodium cooled, safety problems related to, 25:18154 (ANL-7657)
failure of Livermore Pool-Type Reactor MTR-type, during 1968 and 1969, 23:52415 (UCRL-71736)
failure of low burnup water cooled Zircaloy 2 clad uranium oxide (UO_2) rod, effects of power bursts on, (E), 25:51090 (IN-ITR-113)
failure of overheated, effects of fission product release from, 21:38462 (ORNL-3981)
failure of Peach Bottom Power Reactor Unit 1, effects of dimensional changes on, 23:33057(R) (GA-9360)
failure of Peach Bottom Unit 1, during Core 1 operation, 23:21416(R) (GA-9237)
failure of pellets and rods in fast, probability analysis of, 25:51105
failure of pin type subassembly, effects on liquid metal flow transients of gas release from, (E/T), 25:25971 (ANL-7651)
failure of pin type, analysis of fission gas release for, (E), 24:7357
failure of pin type, effects on coolant flow and fuel assembly deformation of, 25:6017
failure of plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of variable density on power transient, (T), 24:7128
failure of power and research, detection systems for, 24:3994 (STI/PUB-204)
failure of pressurized water cooled Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss conditions on, (E), 25:41509
failure of PRTR during irradiation testing, 21:7978
failure of PRTR, effect of fused urania—water reaction in, 21:23590 (BNWL-362)
failure of pyrolytic carbon coated uranium carbide (UC_2) and uranium oxide (UO_2) particle type, iodine-131 release from, 24:22431(R) (ORNL-4511)
failure of rod, effects on design of emergency core cooling system of, 24:33375
failure of rod, effects on heat transfer performance of emergency core cooling system of, 24:33378
failure of rod, effects on heat transfer performance of emergency core cooling system of, 24:33377
failure of rod, effects on performance of emergency core cooling system of, 24:33374
failure of rod, effects on performance of emergency core cooling system of, 24:33376
failure of rod, under fuel loss conditions, 24:33416
failure of sodium cooled fast, detection, location, and analysis of fission products released from, (E), 25:23283 (ANL-7604)
failure of sodium cooled, analysis of transient, (E/T), 25:57110 (CONF-710302-(Vol.1), pp 97-101)
failure of sodium cooled, development of methods for detection of, 25:60058(R) (ANL-7817)
failure of sodium cooled, facility for mockup testing of, 25:23313(R) (ORNL-TM-3263)
failure of sodium cooled, facility for mockup testing of, 24:52951 (ORNL-TM-3122)
failure of sodium cooled, facility for mockup testing of, 25:10244(R) (ORNL-TM-3212)
failure of sodium cooled, mockup testing facility for, 25:34393(R) (ORNL-TM-3342)
failure of spent plate-type, method for detection of shipping caused, (E), 25:51176
failure of Spert IV F-type, fuel particle size distribution from, 23:7400(R) (IDO-17279)
failure of stainless steel clad ceramic, effects of bubbles in sodium bonding on, 22:4910
failure of stainless steel clad urania, fission gas activity released from, (E/T), 21:46853 (GEAP-4917)
failure of stainless steel clad uranium oxide (UO_2) pins in absence of coolant, (E), 24:11185 (ANL-7552)
failure of steam cooled, design of in-pile loop for testing of, 25:39288(T) (EURFNR-847)
failure of thorium carbide and uranium—thorium carbide spherical, in graphite—steam systems, 21:40571(R) (ORNL-TM-1913)
failure of TRISO coated uranium oxide (UO_2), measurement of cesium release during, 24:20581(R) (ORNL-TM-2829)
failure of Type 316 stainless steel clad uranium oxide (UO_2) pellet type, analysis of molten fuel movement in, (E), 24:7152
failure of U. S. power, performance of detection systems for, 24:4019
failure of U.K. gas cooled power, performance of detection system for, 24:4018
failure of uranium carbide (UC_2) carbon coated bonded bed particle type, effects of high temperature on, 23:33066(R) (ORNL-4374)
failure of uranium carbide carbon coated bonded bed particle type, effects of high temperature on, 23:33067(R) (ORNL-TM-2533)
failure of uranium oxide (UO_2) pin, effects of molten fuel movement and fission gases on transient, (E), 24:22426 (GEAP-13543)
failure of uranium oxide (UO_2), fission product aerosol distribution under LOFT condition from, 23:33066(R) (ORNL-4374)
failure of uranium oxide (UO_2), fission product analysis from, 22:20909(R) (ORNL-TM-2095)
failure of uranium, detection in carbon dioxide flow of, 22:1885
failure of uranium-metal, distribution of fission products from, 21:38737
failure of water cooled clusters of Zircaloy 2 clad uranium oxide (UO_2) rod, effects of power bursts on, (E), 25:51092 (IN-ITR-116)
failure of water cooled rod type, analysis of accident propagation from, 25:60126
failure of water cooled uranium oxide (UO_2) rod type, particle size distribution from power burst, (E), 25:8075 (IN-1428)
failure of water cooled uranium oxide (UO_2), hydrogen production from, (E), 24:36065(R) (IN-1370)
failure of water cooled Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) rod, effects of power bursts on, (E), 25:51091 (IN-ITR-114)
failure of water cooled Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet, effects of power bursts on, (E), 25:51093 (IN-ITR-117)
failure of water cooled Zircaloy 2 clad uranium oxide rod type, effects of power bursts on, (E), 25:51089 (IN-ITR-112)
failure of water cooled Zircaloy 2 clad uranium oxide (UO_2) pellet, effects of power bursts on, (E), 25:51086 (IN-ITR-107)
failure of water cooled Zircaloy 2 clad uranium oxide (UO_2) pellet and powder, effects of power bursts on, (E), 25:51085 (IDO-ITR-103)
failure of water cooled Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss conditions on, (E), 25:23342 (ORNL-4635)
failure of water cooled Zircaloy clad, effects of coolant loss accident conditions on, (E), 24:36046 (CONF-700608-15)
failure of water cooled, effects of emergency core cooling conditions on, (E), 25:41466
failure of water cooled, in-line calibration of detection systems for, 24:4017
failure of water cooled, methods for detection of, 25:39230
failure of water cooled, performance of converging—diverging choked nozzle for entrained gas detection of, 25:41432
failure of waterlogged uranium oxide (UO_2), effects of Type 304 stainless steel and Zircaloy-2 cladding on power burst, (E), 25:51088 (IN-ITR-111)
failure of waterlogged, during power excursion, mechanical energy release in, 21:38702
failure of zero-burnup plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type, analysis of TREAT simulated, 23:4224
failure of Zircalloy-2 clad uranium oxide (UO_2) rods operating with central melting, post-irradiation analysis of, 23:40367(R) (GEAP-5771)
failure of Zircaloy 2 clad uranium oxide (UO_2) pellet type, effects of coolant loss conditions on, 24:2004 (ANL-7575, pp 130-5)
failure of Zircaloy 2 clad uranium oxide (UO_2) pellet type, effects of burnup on power transient, 24:7183
failure of Zircaloy 2 clad uranium oxide (UO_2) pellet and powder, effects of power bursts on, 23:37546
failure of Zircaloy 2 clad uranium oxide (UO_2), analysis of fission product release from, 23:33066(R) (ORNL-4374)
failure of Zircaloy clad uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:43857(R) (BNWL-1442)
failure of Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss on, (E), 24:22431(R) (ORNL-4511)
failure of Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss on, (E), 25:34392(R) (ORNL-4647)
failure of Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss conditions on, 24:4074(R) (ORNL-TM-2283)
failure of Zircaloy clad uranium oxide (UO_2) rod type, fission product release for coolant loss actuated, 24:20581(R) (ORNL-TM-2829)
failure of Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss conditions on, 24:4075(R) (ORNL-TM-2368)
failure of Zircaloy clad uranium oxide (UO_2) rod type, effects of coolant loss conditions on, (E), 24:4076(R) (ORNL-TM-2425)
failure of Zircaloy clad uranium oxide (UO_2), coolant loss conditions and radiation effects on, (E), 25:41418
failure of Zircaloy clad uranium oxide (UO_2), during water coolant loss accidents, 24:18688 (ORNL-TM-2774)
failure of Zircaloy clad, effects on core spray cooling system performance from, (E/T), 25:41464
failure of Zircaloy clad, in water cooled reactor coolant loss accidents, 24:9106 (ORNL-TM-2742)
failure of Zircaloy-2 clad uranium oxide (UO_2) rod type, (E), 24:50123
failure of Zircaloy-2 clad uranium oxide (UO_2), effects of thermal stresses on mechanical interactions leading to, 25:54281 (A/CONF.49/P-295)
failure of Zircaloy-2 clad uranium oxide (UO_2), in pile, 25:54283 (A/CONF.49/P-315)
failure of Zircaloy-4 clad rod, containing fused calcium oxide—uranium oxide—zirconium oxide, 21:17539 (WAPD-TM-593)
failure of Zircaloy-clad uranium dioxide, in loss-of-coolant accident in TREAT, 24:16217 (ORNL-4400, pp 118-26)
failure of Zircaloy-clad uranium oxide (UO_2) pin-type, heat transfer characteristics during, 23:4270(R) (BMI-1850)
failure of, analysis of fission product aerosol distributions in LOFT-condition, 23:17235(R) (ORNL-TM-2479)
failure of, calibration of fission product detection systems for, (E), 24:22395 (ANL-7558)
failure of, Cherenkov detector for detecting, 24:39272(P)

failure of, coolant monitoring system for detection and location of, 24:4177(P)
failure of, description of device for detection of, 25:46346(P)
failure of, design of burst-can detection system for determining, 21:12250
failure of, detection and location systems for, 24:4013
failure of, determination of Weibull density function parameters from data on, 22:39894 (BNWL-SA-1920)
failure of, development of detection system for, 24:4015
failure of, development of method for detection of operational, 25:4736(R) (ANL/ST-3)
failure of, effects of emergency core coolant on fission product release in, 24:16217 (ORNL-4400, pp 118-26)
failure of, effects on core spray cooling system performance of, (E), 25:41440
failure of, effects on operation of boiling water power reactors of, 24:33194
failure of, evaluation of probability of, (T), 25:48266
failure of, factors affecting in-pile, 22:19646
failure of, fission product aerosol distribution under LOFT conditions from, 24:4075(R) (ORNL-TM-2368)
failure of, fission product aerosol distributions under LOFT conditions from, 23:33067(R) (ORNL-TM-2533)
failure of, fission product distribution in sodium coolant from, 22:6138(R) (LA-3820)
failure of, fission product release in, 24:16217 (ORNL-4400, pp 118-26)
failure of, methods for detecting, 22:50902 (ANL-7425, pp 193-7)
failure of, methods of detection of, 21:23589(R) (ANL-7308)
failure of, photoneutron monitor for detection of, 21:5723(P)
failure of, problems in reactor operation due to, 21:35604
failure of, release of fission products in, 21:40592
failure of, review of detection and location techniques for, 23:31242
failure of, scintillation and Cherenkov detectors for monitoring, 22:16863
failure of, size distribution of fission gas bubbles from cladding, (E/T), 25:34401 (ANL-7789)
failure of, sodium-soluble labels for detection of, 24:50439(R) (ANL-7675)
failure of, system for monitoring, 25:28703
failure of, trapping of rare gases released in, 25:29074(R) (DUN-7221(Vol.1))
failure of, trapping of rare gases released in, 25:29075(R) (DUN-7221(Vol.2))
failure of, use of alpha emitters in detection of, 21:19513(P)
failure of, use of amplifiers for fluid switches in detection of, 22:1909
failure pressure for PL-2, comparison of calculated and measured, 23:17252 (IDO-17291)
failure propagation characteristics of liquid metal cooled pin, 25:54117
failure propagation characteristics of liquid sodium cooled bundle arranged pin type, 25:57069(R) (ANL-7800)
failure propagation in gas cooled bundle arranged rod type, effects of coolant flow blockage on, 25:41437
failure propagation in liquid sodium cooled bundle arranged rod type, effects of coolant flow blockage on, 25:41435
failure propagation in liquid sodium cooled pin type, design characteristics for prevention of, 25:41543
failure propagation in rod type, pin to pin, 24:33386
failure propagation in rod, effects of coolant—molten fuel reactions on, 25:57083 (CONF-710302-(Vol.1), pp 241-58)
failure rate of pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:43758 (DP-Report-408)
failure testing at 400°C of enriched-alloy, for pulsed reactor, 22:40331 (NP-17544)
failure testing of fast liquid sodium cooled uranium oxide (UO_2) cluster arranged, (E/T), 24:33318
failure testing of irradiated stainless steel clad and unirradiated Zircaloy-2 clad uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), (E), 24:36065(R) (IN-1370)
failure testing of LMFBR plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:7124
failure testing of SPERT 4 CDC Type 304 stainless steel-clad uranium oxide (UO_2) pellet-type rod-shaped SPX, 23:17250(R) (IDO-17287)
failure testing of SPERT 4 CDC Zircaloy 2-clad uranium oxide (UO_2) pellet-type rod-shaped SPX, 23:17254(R) (IDO-17294)
failure testing of Spert IV dry and waterlogged F-type, 23:7400(R) (IDO-17279)
failure testing of Zircaloy-2 clad pelletized uranium oxide (UO_2), in SPERT 4 Capsule Driver Core, 23:15676(R) (IDO-17289)
failure testing of, in SPERT transient tests, 21:35750
failure threshold of zero burnup liquid sodium cooled Type 316 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:10208 (GEAP-13562)
failure thresholds and mechanisms for liquid sodium cooled fast, (E), 25:6018
failure thresholds of liquid sodium cooled, power transient, (E), 25:41539
failures in CVTR, 21:40547(R) (CVNA-279)
failures in Elk River Power Reactor, effects on waste disposal procedures, 21:46861(R) (NUS-401)
failures in gas-cooled, method for detection of, 22:25052(P)
failures in Halden Boiling Reactor, 21:21637(R) (HPR-71)
failures in Peach Bottom Power Reactor Unit 1, analysis of, 23:4264(R) (GA-8816)
failures in uranium oxide (UO_2), effects of irradiation in carbon dioxide on fission products from, 22:18583 (CEA-R-3329)
failures of transient-tested mixed oxide powdered fast, causes and analysis of, 23:37570
failures of TRISO coated uranium oxide (UO_2), measurement of cesium-137 release in, 24:4077(R) (ORNL-TM-2718)
failures of Zircaloy-2-clad uranium oxide (UO_2) Spert 4 Capsule Driver Core, metallurgical analysis of, 22:35596(R) (IDO-17260)
failures of Zircaloy-clad thorium oxide (ThO_2)—uranium oxide (UO_2), effects of time and temperature on, (E/T), 22:33174
failures of, description of instrumentation for detection of, 23:37481 (CONF-680625-3)
failures of, description of modified loading machine for coolant sampling in detecting, 22:42569(P)
failures of, detection methods for, 23:4477
fast fission ratio and fine distribution in natural uranium rod type, measurement of, 23:28569
fast fission ratio in gas cooled, activation method for calibration factor of, (E), 25:8052 (AEEW-M-975)
fasteners for rod type, description of two position latch type, 23:43218(P)
fastening mechanism for, description of double plate connection with rotating levers in, 22:14349(P)
fin deformation on, interconnecting peripheral strips for prevention of, 23:37769(P)
fin reinforcement by metal strips for protection against deformation, 22:25181(P)
finned tube fabrication for, 21:28734
fins for cylindrical and plate type, description of base and edge fastened chevron arranged, 23:37801(P)
fins for cylindrical, longitudinal undulations in herringbone, 23:37787(P)
fins for cylindrical, slots for prevention of deformation of chevron, 23:37789(P)
fission density distribution in uranium oxide (UO_2) rod type, autoradiography analysis of, 25:60172
fission gas analysis from high power density mixed oxide, (E), 24:26835(R) (BNWL-1358)
fission gas bubble movement in sodium bonded, development of thermal scanner for, 24:43858 (LA-4453)
fission gas bubbles and inclusions in mixed oxide, diffusion of, (E), 25:6014
fission gas collecting system for, description of argon pruged porous end plug access, 23:37825(P)
fission gas collection system for liquid sodium cooled, 25:54119 (RT/ING-(71)2)
fission gas diffusion from fissioning, model of, 22:49863
fission gas diffusion from operating, mechanisms of, 23:10280
fission gas diffusion from, model for, 24:42281 (DP-Report-308)
fission gas distribution in mixed oxide, SWELL 2 code for, 25:6013
fission gas measurements in, equipment for remote, 24:16737 (CONF-690910-, pp 413-19)
fission gas outlet device for, description of, 22:20954(P)
fission gas piston-actuated acoustic transducer electromagnetic chart-recorder pressure gage for, description of, 22:39946(P)
fission gas plenum design for prevention of pressure buildup in, 24:50249(P)
fission gas plenums for liquid metal cooled pin type assemblies of fast, 24:26786(P)
fission gas pressure in irradiated urania, measurement of, 21:40693 (AECL-2662)
fission gas pressure in LMFBR, miniature NaK filled bellows sensor and capillary tube transmitter system for, 24:16188 (ANL-7574)
fission gas pressure in, design of controller for, 24:41597
fission gas pressure measurements in irradiated mixed-oxide, 22:53454 (BNWL-828)
fission gas pressure measurements in irradiated plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:9237(R) (BNWL-907)
fission gas release from failed, quantitative examination of, 25:32806
fission gas release from graphite-urania, 21:27810
fission gas release from HTGR type, (E), 25:6009
fission gas release from HTGR type, (E), 25:6010
fission gas release from mixed oxide gas cooled, (E), 25:6015
fission gas release from oxide, mechanisms of, (E/T), 24:33547
fission gas release from ruptured pin-type, effects on temperatures in adjacent fuel pins, (E), 25:26418 (ANL-7734)
fission gas release from uranium oxide (UO_2), effects of burnup on, (E/T), 24:7358
fission gas release from, apparatus and method for measuring, 23:15806
fission gas release from, comparison of calculated and measured, 22:9988(R) (ANL-7391)
fission gas release from, continuous measurement of rare gas, 25:57344 (CEA-R-4218)
fission gas release from, experiments on, 21:23726 (ORNL-TM-926)
fission gas release from, mechanisms of, 21:25739 (ORNL-P-2978)
fission gas release in sodium bonded, behavior of stationary bubbles from, (E/T), 24:13638
fission gas release in uranium oxide (UO_2) rod type, effects of burnup on, (E), 24:22427(R) (IDO-17303)
fission gas release in, COMETHE II code for, (E/T), 24:46134
fission gas release rates from, tapping measurements of, 22:30343(R) (EURAEC-1992)
fission gas sampling from, description of piercing needle device for, 22:42527(P)
fission gas separation from, design of equipment for, 23:7682(P)
fission gas transport across graphite barrier in HTGR type, effects of transverse flow on, (E/T), 25:6011
fission gas venting from, pressure balance closures for, 25:48358
fission gas-induced swelling of mixed oxide, model for, 24:44823
fission power of, time dependent depletion equations for calculation of, (E/T), 24:18758 (CONF-690910-, pp 473-90)
fission product aerosol release from, 21:40571(R) (ORNL-TM-1913)
fission product behavior in melted uranium oxide (UO_2), effects of time and temperature on, 23:4364
fission product buildup and release rates for uranium oxide (UO_2), (T), 23:28484(T) (AERE-Trans-1109)
fission product buildup in, effects of burnup and cooling time on, (T), 24:38579 (JUL-603-ST, pp 195-202)
fission product chemical behavior in urania, electron microprobe analysis of, 21:40694 (ANL-7349, pp 92-109)
fission product content in irradiated, computer program for determining, 22:39895 (DUN-4136)
fission product content in irradiated, ICON code for calculation of, 25:10236 (AERE-R-6242)
fission product decay heat in, effects of power time and decay time on, 24:16198
fission product decay in spent, scintillation detector system for measuring, 22:36038(P)
fission product deposition on, 21:25677
fission product diffusion from defected clad, 21:17473 (WCAP-3269-63)
fission product diffusion from melted irradiated, 22:4231(R) (IN-1087)
fission product diffusion from uranium dioxide, relations with irradiation time, 22:2709 (RT/FIMA-(67)2)
fission product diffusion from, calculation of, 21:30294
fission product distribution and release from gas cooled, (E), 24:1952(R) (GA-9494)
fission product distribution and release from mixed oxide, 23:37506(R) (GEAP-5677)
fission product distribution and release from mixed oxide, 23:43115(R) (GEAP-5753)
fission product distribution and release from mixed oxide, 23:43116(R) (GEAP-10028)
fission product distribution and release from mixed oxide, 23:37507(R) (GEAP-5700)
fission product distribution and release rate from mixed oxide, 24:4058(R) (GEAP-10028-31)
fission product distribution and release rate from mixed oxide, 24:16190(R) (GEAP-10028-32)
fission product distribution from failed Zircaloy-clad uranium oxide (UO_2), effects of ECCS on, 23:17205(R) (BMI-1856)
fission product distribution in graphite of HTGR GAIL IV carbide, 23:28718 (GA-8588)
fission product distribution in Incoloy 800-clad and Type 316 and Type 347 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 22:50732(R) (GEAP-5631)
fission product distribution in operating pin type, thermomigration model for, (T), 25:31589 (CONF-710302-5)
fission product distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, radiation effects on molybdenum, 25:18247 (WHAN-SA-96)
fission product distribution in water cooled plutonium oxide (PuO_2)—uranium oxide (UO_2), (E/T), 25:41282
fission product distribution in, determination by gamma scanning, 24:5846
fission product distribution in, γ-ray scanning method for determining, 23:35009
fission product distribution over cross section of, TWODIM code for unfolding γ-ray scans of, 25:39349 (LA-4676)
fission product energy release in, computer program for calculating, 23:5443 (AI-AEC-Memo-12693)
fission product gas pressure in failed urania, calculation of, 22:1779
fission product gas pressure measurements in, gage for, 24:48354
fission product gas release from uranium oxide (UO_2), effect of power level changes on, 23:2039
fission product hydraulic vents for liquid sodium-cooled ceramic-fueled fast reactor, development of, (E/T), 23:4243
fission product ingots from irradiated plutonium dioxide—uranium dioxide, composition of, 24:42296
fission product inventories in spent, 23:6198 (K-L-6223)
fission product inventory for FTR plutonium, 23:31193(R) (BNWL-567)
fission product iodine release from failed, in-pile loop measurements of, 21:31910 (CONF-660904-Vol.1 and 2, pp 52-61)
fission product leak rate of VVR-M, determination of, 21:15776
fission product leakage measurement from Plum Brook, 23:49587 (N-69-32317)
fission product leaks from unclad uranium oxide (UO_2), calculation of rate of, 25:25973 (IAE-1968)
fission product migration from HTGR-type, (E), 25:20747(R) (NP-18668)
fission product migration in irradiated stainless steel clad uranium dioxide, gamma spectra study of, 23:47813
fission product release and detection of failed water cooled Zircaloy 2 clad uranium oxide (UO_2) rod, 25:57047 (JAERI-Memo-4157, pp 2-22)
fission product release and distribution in operating, mathematical model for, (E/T), 25:46341 (IN-1467)
fission product release during irradiation from pyrolytic-carbon-coated, 21:38463(R) (ORNL-4133)
fission product release estimation, FREVAP-8 code for, 21:27830 (GAMD-7535)
fission product release from and distribution in, analysis of gaseous, 25:48360
fission product release from beryllium oxide (BeO)—thorium oxide (ThO_2)—uranium oxide (UO_2), effects of fabrication processes on, 23:13503(R) (GA-6532)
fission product release from defective, in-pile gas loop measurements of, 25:51244 (JAERI-13670)

fission product release from defects in, time-dependent, (T), 25:41378
fission product release from EBR-2 plutonium alloy—uranium alloy—zirconium alloy, 23:37527
fission product release from EBR-2, location and identification of source of, 23:45079 (ANL-7543)
fission product release from failed gas cooled, (E), 25:51163 (JAERI-13671)
fission product release from failed urania, analysis of iodine, 21:27706
fission product release from gas cooled thorium carbide (ThC_2)—uranium carbide (UC_2) coated particle, (E/T), 25:3775 (DP-Report-539)
fission product release from gas cooled thorium carbide (ThC_2)—uranium carbide (UC_2) coated particle, 25:3796 (DP-Report-579)
fission product release from heated high temperature gas cooled power, 23:33066(R) (ORNL-4374)
fission product release from heated uranium oxide (UO_2), gamma scan analysis of, 22:25098(R) (ORNL-TM-2164)
fission product release from high burnup coated particle, 25:5990(R) (ORNL-4589)
fission product release from high temperature gas cooled, effects of temperature on, 24:4075(R) (ORNL-TM-2368)
fission product release from high temperature gas cooled thorium carbide (ThC_2)—uranium carbide (UC_2), measurement of gaseous, 25:3870 (DP-Report-497)
fission product release from high temperature gas-cooled, FREVAP—9 code for calculation of, 23:15642 (GAMD-8813)
fission product release from hot-pressed beryllia—urania, 21:14111(R) (GA-7062)
fission product release from HTGR, computer programs for calculating, 24:14967 (ORNL-4400, pp 103-17)
fission product release from HTGR, computer program for estimating less volatile metallic, 23:9184 (GAMD-7629)
fission product release from HTGR, FREVAP-8 formulation for calculating metallic, 23:33053 (GAMD-7535(Rev.))
fission product release from HTGR-type, FREVAP-8 computer program errors in calculating, 23:19525 (GA-9093)
fission product release from irradiated pyrocarbon- and silicon carbide-coated, 23:3146
fission product release from irradiated, analysis of, 22:1879 (EUR-3623)
fission product release from melted stainless steel—uranium oxide (UO_2), effects of heat actuated internal circulation on, (E/T), 24:11189 (ORNL-TM-2448)
fission product release from melted stainless steel-clad uranium dioxide, 21:1222 (ORNL-TM-1588)
fission product release from metal-clad uranium oxide (UO_2), during burnout, 22:20909(R) (ORNL-TM-2095)
fission product release from molten, estimated half-life of, 22:42160(R) (BMI-1844)
fission product release from pin-type uranium oxide (UO_2), effects of coolant loss accident on, (E/T), 23:17205(R) (BMI-1856)
fission product release from polyethylene clad, 24:50189
fission product release from pyrolytic carbon and silicon carbide coated particle type, (T), 25:3874 (DP-Report-595)
fission product release from pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:43754 (DP-Report-244)
fission product release from pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:43694(R) (DP-Report-390)
fission product release from ruptured, methods of concentration of, 21:23605(R) (LA-3650)
fission product release from sodium-bonded Type 347 and Type 316 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), testing of, 22:50732(R) (GEAP-5631)
fission product release from spherical coated particle, two-zone diffusion model for description of, (T), 22:33126
fission product release from uranium oxide (UO_2) coated particle, 25:5990(R) (ORNL-4589)
fission product release from uranium oxide (UO_2), during short period irradiation, (E), 25:31606
fission product release from uranium oxide (UO_2), effects of operating parameters on noble gas, (E/T), 24:5571 (IN-1346)
fission product release from water-cooled, device for detection of, 21:39188(R) (RISO-M-534)
fission product release from Zircaloy clad uranium oxide (UO_2), 22:27416(R) (ORNL-4228)
fission product release from, FREVAP 8 computer program for metallic, 23:28413 (GA-8476)
fission product release from, FREVAP-code for calculation of metallic, 21:38453 (GAMD-7656)
fission product release from, simulation of, 22:27490 (ORNL-4229, pp 149-55)
fission product release from, under reactor transient conditions, 22:27490 (ORNL-4229, pp 149-55)
fission product release in coated ceramic particle, 24:28985(R) (GA-8879)
fission product release in coated ceramic particle, 24:28986(R) (GA-9130)
fission product release in high temperature gas cooled, effects of temperature on, 24:4076(R) (ORNL-TM-2425)
fission product release in HTGR-type metal, testing of FREVAP-8 computer program for, (E/T), 23:4247
fission product release rate from BISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2), effects of annealing time and temperature on strontium-89, 23:9118(R) (GA-7634)
fission product release rate from BISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2), effects of annealing time and temperature on cerium-144, cesium-137, and strontium-89, 23:9117(R) (GA-7453)
fission product release under normal conditions from uranium oxide (UO_2), review of analytical methods for, 23:52383 (IDO-17292)
fission product release under steam-cooled operating conditions for EVESR, 22:16184
fission product removal from melted center of, in operating reactors, 23:40376(P)
fission product retention in Dragon, properties of silicon carbide barriers for, 23:8353
fission product retention in graphite structural components of gas cooled, (E/T), 24:41008 (DP-Report-416)
fission product retention in, determination using microprobe, 24:17389 (CONF-690910-, pp 516-32)
fission product transport in, analysis of fuel to cladding interface, (T), 24:4136
fission product vapor pressures over fast neutron irradiated uranium oxide (UO_2)—plutonium oxide (PuO_2), (E/T), 25:44206 (CEA-R-4181)
fission product venting from, design of device incorporating in-leak prevention, 23:38145(P)
fission product venting system for operating, 22:16340(P)
fission products from, sorption bed for, 21:5724(P)
fission products from, space-dependent ion production by, 22:1001
fission products in fast steam cooled, methods for analysis of, 24:46053
fission products in high temperature oxide, migration of solid, 21:27823 (AE-272)
fission products in liquid metal cooled ceramic fast, performance of hydraulic vents for removal of gaseous, (E/T), 24:22407 (RT/ING-(69)30)
fission products in uranium oxide (UO_2) rod type, release of noble gas, (E/T), 24:47881(R) (IN-1320)
fission products in uranium oxide (UO_2) WWER-type, method for calculation of at-power gaseous, 25:12798 (IAE-1942)
fission products in Windscale Advanced Gas-Cooled Reactor, listing of, 23:23911 (JNPC/SWP/N-40 and (Amend.1))
fission products in, FISSPROD computer program for calculation of content of, 24:16303 (AECL-3038)
fission rate distributions in Windscale AGCR, use of gamma scan and wire activation methods for measuring, 21:21682
fission rate in, solid state track detector method for accurate determination of, (E/T), 24:46135
fission rates in irradiated uranium-235 and plutonium-239, estimation from ruthenium-106 γ spectra of, (E/T), 24:29092 (AE-390)
fission ratios in uranium carbide, effects of neutron backscatter on, 21:27834
fission yield of multiple long thin uranium-metal, effects of rotating beryllium reflectors on, 23:4363
fission-gas-retention properties of coated, irradiation capsule for evaluation of, 21:19799 (CONF-660511-, pp 4.3.1-8)
fission-product cesium reactions with graphite in, 25:35567
fission-product gas pressure in operating urania, method for calculation of, 21:32039
fittings for rod type, description of locking ring secured screw type end, 24:9171(P)
flaw detection in, development of ultrasonic camera for, 22:23365
flow channels in rod-bundle type, water mixing in, 22:4349
flow channels in, measurement of mixing between parallel, 22:8294 (BNWL-371(Pt.2))
flow channels of rod bundle type, mechanism for natural turbulent mixing in, 24:5792
flowmeters for instrumented SEFOR, calibration data and curves for, 23:26036 (GEAP-5466)
flowmeters for SEFOR instrumented, design drawings for magnetic, 23:26047 (GEAP-5615)
fluid flow and heat transfer in assemblies of rod-type, COBRA IIA computer program for analysis of, 24:46413 (BNWL-1422)
fluid flow characteristics of gas cooled 7 element rod type cluster, (E), 24:26774 (ORNL-4356)
fluid flow in multirod bundles of, mixing characteristics of air—water, (E), 24:44186 (CONF-670654-6)
fluid flow in nine-rod bundles of, analysis of two-phase, 23:33323 (GEAP-5739)
fluorination of pellets of fission product—plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:9988(R) (ANL-7391)
fracture of Zircaloy-4 cladding on cylindrical, effects of plastic instability on, 21:28762 (WAPD-TM-651)
friction and heat transfer coefficients for finned rod clusters of, with axial flow, 24:7581 (ZJE-57)
friction and wear between spacer grids and rod-type, in sodium at 680°C, 25:16439 (KFK-1290)
friction and wear between spacer grids and rod-type, in sodium at 680°C, 25:29818(T) (AEC-tr-7224)
fuel distribution in dogbone area of MTR plates, 21:40675(R) (IN-1083)
fuel distribution in irradiated steel clad uranium dioxide, gamma spectra study of, 23:47813
fuel distribution in spherical, effects on neutron spectra of, 25:46264 (EUR-4339)
fuel distribution in, equipment for determination of, 23:38362
fuel element burnup of, measurement of fission products from, 22:22690(R) (GA-8500)
fuel element burnup performance of, analysis of, 22:30327
fuel element configuration modifications of, description of improved, 22:46856 (AI-AEC-12696)
fuel homogeneity of HFIR, x-ray scanning method for evaluation of, 23:31495 (ORNL-TM-2525)
fuel inhomogeneities in metal-clad oxide, γ-attenuation method for detection of, 22:14739
fuel loss from vented, during space power reactor operation, (T), 23:28578 (N-69-10734)
fuel loss from vented, during space power thermionic reactor operation, (T), 23:28577 (N-69-10099)
fuel member support in base of cylindrical, pin held disc for, 23:37795(P)
fuel motion in ceramic, effect of heat input from transient accidents on, (T), 22:24925(R) (ANL-7427)
fuel motion restrictors for, evaluation of ceramic and metal, 23:32069 (BNWL-SA-1690)
fuel rod retainer and spacer method in cylindrical, deflectable open triangle pairs for, 23:37794(P)
gamma dose rates from mixed oxide recycle, 25:18098(R) (BNWL-1522-1)
gamma emission from, use of lithium-drifted germanium spectrometers for analysis of, 21:10636
gamma flux of irradiated, equipment for measuring, 23:16005 (CEA-CONF-1121)
gamma radiation scan of sodium-cooled fast reactor ceramic, analysis of, 22:7808(R) (GEAP-5522)
gamma scan of defective CVTR, 21:40547(R) (CVNA-279)
gamma scanning irradiated Garigliano, 21:17442(R) (EURAEC-1594)
gamma scanning of EBWR plutonium recycle, results of post-shutdown, 23:49580 (ANL-7410, pp 47-72)
gamma scanning of Garigliano BWR, results of, 21:27754
gamma scanning of Garigliano, core power distribution measurements by, 21:15686
gamma scanning of irradiated, design and opertion of semiconductor spectrometer for, 25:46628 (BNWL-B-104)
gamma scanning of irradiated, lithium-drifted germanium detector system for, 24:29541 (AE-393)
gamma scanning of, computer programs for spectral analysis in, 24:27386 (LA-4326)
gamma scanning of, development of instrumentation for, 25:34924(R) (WCAP-7562-3)
gamma scanning of, remote control equipment for, 25:26550 (RT/ING-(71)1)
gas adsorption in pressurized water, description of activated charcoal, chamber for monatomic, 24:16201(P)
gas analysis procedures for zirconium alloy clad uranium oxide (UO_2), cover and fission, 25:10227
gas cooled vibration resistant stringer type, description of, 24:52925(P)
gas cooling during inspection of, 21:40541(R) (BNWL-492)
gas pressure buildup in plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of burnup on, 22:32814
gas pressures in pin-type, design of miniature gages for, 22:12670 (ANL-7380, pp 65-9)
gas sampling of, laser piercing system for post-irradiation, 23:33567
gas transport in vented, 24:13802 (ORNL-4400, pp 93-102)
gas transport in vented, equations for, 21:38463(R) (ORNL-4133)
gas vent for, description of diving-bell trap with non-return valve, 22:48779(P)
grain growth and central void formation in oxide, 21:24846
graphite loss from HTGR-type, effects of coolant moisture content on, (T), 24:50078
grid for cluster arrangement of, 22:18634(P)
grid locking device for liquid metal cooled rod type, 25:28693(P)
grid spacers in FTR, use of Inconel 718 for fabrication of, 23:33948 (BNWL-930)
grid structure design for, 21:21817(P)
grid structures for, description of recessed tab, 22:14346(P)
grids for dimple-supported rod-type, description of spot welded octogon-shape multiple cell, 22:39912(P)
grids for rod-type, description of variable tension ferrule-connected loop-positioned square lattice wire, 22:39910(P)
gripper and holddown force-limit device for, calibration of, 22:30118 (ANL-7438)
growth and displacement of, eddy current transducers for measuring diametrical, 22:51276(R) (IDO-17269)
growth and temperature of, eddy current system for measurement of transient diametrical, 23:41131(R) (IDO-17299)
growth of, linear variable differential transformer for measurement of, 23:41131(R) (IDO-17299)
guide tubes for boiling water cooled, description of removable, 25:10218(P)
handling and reprocessing of irradiated, radiation protection during, 21:1736 (CEA-R-3019)
handling and shipping of irradiated, from Swiss reactors, performance of equipment and methods for, 25:34854
handling and storage of Atucha, safeguards system for, 24:48238 (KFK-804)
handling and storage of irradiated, in France, methods and regulations for, 25:2424
handling and storage of spent, received from shippers, Savannah River Plant experience in, 23:559 (CONF-681001-, pp 154-9)
handling and storage of, design of liquid metal-cooled coffin for, 24:19191(P)
handling and transport of Fermi Fast Breeder spent, 21:30096(R) (APDA-CFE-5)
handling and transport of irradiated, IAEA regulations for, 21:8571
handling and unloading of, device for safe, 22:19019(P)
handling device for, description of water-filled double-wall containment vessel guide duct, 22:14337(P)
handling in Rapsodie, equipment and procedures for, 21:35757
handling in reactor channels, design of device for, 21:45291(P)
handling in swimming pool reactor, design of tongs for, 23:29120(P)
handling machine for, design of, 21:23777(P)
handling machine for, design of, 21:23782(P)
handling of Dungeness B, 21:34123

handling of enriched uranium, critical mass and neutron buckling measurements in light water for safety in, 22:12087 (BNWL-472, pp 5.1-16)
handling of FARET, shielded window design for, 21:8088
handling of gas cooled power, review of, 25:53901 (A/CONF.49/P-470)
handling of gas cooled, equipment and procedures for on-load, 25:20738
handling of hollow tubular, design of equipment for remotely, 23:24416(P)
handling of irradiated and nonirradiated FTR, 22:14250(R) (BNWL-470)
handling of irradiated, design of equipment and shielding for, 21:12566(P)
handling of irradiated, design of equipment for, 25:42044(P)
handling of irradiated, design of improved device for, 21:22086(P)
handling of irradiated, servicing installation for, 24:47978(P)
handling of MZFR, system for automatic, 22:14181
handling of radioactive, remote equipment for, 21:15663 (RT/ING-(66)5)
handling of sheared clad, in reprocessing plant, design of hydraulic equipment for, 25:8445 (AERE-R-5104)
handling of spent, computer program for calculating shielding for, 22:40356
handling of spent, coolant replacement process for, 21:19500(P)
handling of spent, design of equipment for remote, 24:41643(P)
handling of spent, safety methods for, 22:43015 (DPSPU-67-30-8)
handling of submerged, design of remote equipment for, 23:16071(P)
handling of, crane control system for, 23:13972(P)
handling of, design of control system for traveling crane for, 23:11742(P)
handling of, design of equipment for remote, 23:9685(P)
handling of, design of load engaging and supporting device for, 21:12268(P)
handling of, design of safe rig for in-pile, 24:39127(P)
handling of, design of tongs for remote, 22:14660(P)
handling of, evaluation of plastic magazine for, 22:26037 (CONF-660706-, pp 91-103)
handling of, hydro-pneumatic device for criticality control in, 21:17765(P)
handling of, in reactors cooled by opaque liquids, 21:5655(P)
handling of, shock absorber design to prevent free fall in, 22:1907(P)
handling spent Fermi Fast Breeder, 21:30095(R) (APDA-CFE-4)
handling system for La Crosse, operating manual for, 23:1967 (ACNP-68505-F)
hazard ratings for fission products released from irradiated, for advanced gas-cooled reactors, 22:51572 (RD/B/N-1143)
heat conduction in longitudinally finned, equations for solution of boundary problems of, 21:23747 (UJV-1622)
heat conduction in, computer code for transient, 25:57094 (RISO-M-1391)
heat diffusion in, analog solution for transient, 22:19038
heat distribution in pin type, development of uranium calorimeter for measurement of, 24:52747 (ZJE-88)
heat flux distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2) rod-type, effect of fissile material segregation and geometrical tolerances on, (T), 22:44941
heat flux distribution in, effect of clearances between fuel and can on, (T), 21:17546
heat flux distribution in, FRG-code for calculating, 22:35673 (RT/ING-(67)11)
heat flux in water-cooled assemblies of, with transient cooling conditions, design of equipment for measurement of critical, 24:16767(R) (GEAP-13048)
heat flux in, measurement of turbulent coolant temperature variations for surface, (E/T), 24:20640
heat generation in, effects on coolant temperature of, 22:10019
heat production in cylindrical, with homogeneous distribution of fuel material, 22:6527 (ITEF-455)
heat rate optimization in oxide fast, sintering correction factor for linear, 23:6047
heat rating of, effects of fuel-clad gap dimensions on, 24:23533 (BNWL-1279, pp 3.1-31)
heat sources in, calculation of spatial distribution of, 21:31949 (UJV-1724)
heat transfer analyses of TREAT failure tests on EBR-II fuel pins, 21:38572
heat transfer analysis of cermet-type FTR, 21:40541(R) (BNWL-492)
heat transfer analysis of gas-cooled graphite moderated power, 22:1767 (JUL-486-RB)
heat transfer analysis of, with liquid metal coolants, 21:38601
heat transfer and fluid flow in asymmetrical triangular rod clusters of, 24:2378 (EURFNR-695)
heat transfer and fluid flow in porous, method for measurement of, 23:524
heat transfer and hydrodynamic performance of boiling water, full-scale loop tests on, 24:22410
heat transfer and pressure losses in axial flow through, of steam-cooled fast breeder reactors, 21:41097 (IRB-2/66)
heat transfer between coolant and surface of, calculation method for uneven, 25:31675
heat transfer between fuel and cladding after irradiation, 21:42840
heat transfer between fuel material and cladding of, calculation method for uneven, (T), 25:31674
heat transfer between reactor coolant and, method for measuring, 23:38166(P)
heat transfer by flat-plate-type, effects of longitudinal and transverse fins on, 24:5794
heat transfer by, in fluidized bed, 21:30498(R) (EURAEC-1832)
heat transfer calculations for, model for, 22:33094 (KFK-700(Pt. IV))
heat transfer calculations for, model for, 22:53273(T) (EURFNR-472)
heat transfer calculations in, discussion of Monte Carlo computer codes for, 22:33132
heat transfer characteristics for pin type, effects of cladding contact pressure on, (T), 25:54317
heat transfer characteristics of assemblies of power, (T), 25:3876 (RCN-123)
heat transfer characteristics of bundles of rod type, calculation of steady state and transient operation, 25:48235(R) (BNWL-1522-2)
heat transfer characteristics of fast ceramic, effects of reactor transients on, 22:32735 (ANL-7310, pp 249-375)
heat transfer characteristics of FTR, program for, 23:31193(R) (BNWL-567)
heat transfer characteristics of gas cooled 7 element rod type cluster, (E), 24:26774 (ORNL-4356)
heat transfer characteristics of gas cooled rod, effects of surface roughening on, (T), 25:28696
heat transfer characteristics of gas cooled smooth and finned rod type, 25:41414 (ZJE-98)
heat transfer characteristics of gas cooled, effects of accident conditions on, 24:24836 (ORNL-4508, pp 71-112)
heat transfer characteristics of gas-cooled spirally corrugated, effects of configuration on, 23:28488 (ORNL-4353, pp 111-39)
heat transfer characteristics of mixed-oxide, effect of longitudinal enrichment profile on, (T), 22:30343(R) (EURAEC-1992)
heat transfer characteristics of MTR-type, during coolant loss accidents, (E), 25:1924 (LA-4473)
heat transfer characteristics of uranium oxide (UO_2), 25:6060
heat transfer characteristics of vitreous-ceramic gas cooled, 22:46899 (IFA-TR-55)
heat transfer characteristics of water cooled 36 rod assemblies of, (E), 24:43604 (FRIGG-3)
heat transfer characteristics of water cooled rod type, effects of grid and wire wrap spacers on, (E), 25:6028
heat transfer characteristics of water cooled Type 304L stainless steel clad uranium oxide (UO_2) bundle type, measurement of post-dryout, (E/T), 25:3865 (AECL-3414)
heat transfer characteristics of water cooled Zircaloy clad bundles of pin type, during coolant loss accident conditions, (E), 25:60114 (CONF-711103-1)
heat transfer characteristics of, methods for measuring temperatures for longitudinal, 21:38675
heat transfer coefficient in spacer area of, measurement of film, 23:13588
heat transfer coefficient in spacer area of, measurement of local hot spot, 24:18623(T) (LIB/Trans-250)
heat transfer coefficient measurements during irradiation under controlled environment, 21:21806
heat transfer coefficient of metal clad ceramic, balanced oscillator method for in-pile measurement of gap conductance, (E/T), 25:10323(T) (EURFNR-774)
heat transfer coefficient perturbations on surfaces of, transient temperature and thermoelastic stress fields from, (T), 24:43863
heat transfer coefficient perturbations on surfaces of, transient temperature and thermoelastic stress fields from, (T), 24:43864
heat transfer coefficients for ORGEL Reactor 4- and 7-rod assemblies of helical finned rod type, measurement of local, 23:23919
heat transfer coefficients for plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 23:47341 (GEAP-5748)
heat transfer coefficients in spherical, effects of axisymmetric thermal responses on time dependent, (T), 23:24041
heat transfer crisis for natural circulation water-cooled bundles of, equation for calculation of, 25:18584
heat transfer crisis in boiling water flowing through bundles of, 25:57638 (IAE-2014)
heat transfer crisis in twisted tape, under natural circulation coolant flow, (E/T), 24:47857
heat transfer crisis in water-cooled rod-bundle power channels of, review of, (E/T), 23:21478
heat transfer for laminar flow liquid metal cooled bundles of rod type, effects of cladding thickness and thermal conductivity on, (T), 24:50124
heat transfer from boiling water, measurements of critical, 23:52345
heat transfer from bundles of rod-type, to pressurized water coolant, effects of coolant flow blockage on, 25:39641
heat transfer from cermet, 21:19458(R) (BNWL-300)
heat transfer from clad compacted ceramic, effects of bismuth bonding on, 23:8313
heat transfer from clad pellet-type, effects of bonding and configuration on, 25:13155
heat transfer from clad urania, factors affecting, 21:25737 (AECL-2588)
heat transfer from clad, analytical method for azimuthal perturbations in, 24:29434
heat transfer from closely spaced, to in-line flowing liquid metals, effects of rod dimensions, cladding thickness, and cladding conductivity on fully developed, (T), 24:5791
heat transfer from herringbone surfaces of, to carbon dioxide, 21:43163
heat transfer from high temperature aluminum, to surrounding water in TREAT facility, measurements of transient, 23:47690 (ANL-7563)
heat transfer from longitudinally finned, method of calculating, 22:2301
heat transfer from Magnox-clad uranium carbide, efficiency of conductive, 21:17535 (EUR-3155.e)
heat transfer from multirod bundles of, equipment and method for measuring, 25:13150(R) (GEAP-10253)
heat transfer from nonuniformly heated rod-type assemblies of, to turbulently flowing coolants, (T), 24:44197
heat transfer from organic-cooled, calculation of, 21:12168
heat transfer from rod-type, effects of ribbed surfaces on high-temperature, 24:29439
heat transfer from SAP-clad uranium carbide pellet, efficiency of conductive, 21:17535 (EUR-3155.e)
heat transfer from simulated, to natural circulation boiling water, (E), 25:37009 (UARAEE-110)
heat transfer from sodium-bonded, (E), 22:8807(R) (WCAP-3791-10)
heat transfer from spray-cooled rod-bundle type, analysis of, 22:10493
heat transfer from stainless steel-clad uranium carbide, efficiency of conductive, 21:17535 (EUR-3155.e)
heat transfer from triangularly spaced closely packed, to turbulently flowing liquid metal coolant, VELVET-II computer program for calculation of, 24:11730 (GEAP-10052)
heat transfer from tubular, for specific radial thermal neutron flux, (T), 23:52490 (UJV-2153-R)
heat transfer from tubular, in central channel of natural uranium gas-cooled reactor, (E/T), 25:57639 (JUL-753-RB)
heat transfer from urania, effect of roughened surface on, 21:40678 (ORNL-P-3202)
heat transfer from water cooled aluminum—uranium alloy plate type, effects of power transients on, 23:37545
heat transfer from water-cooled cylinder-shaped uranium oxide (UO_2), analysis of rapid transient effects on surface, 23:4376
heat transfer from Zircaloy-clad uranium carbide, efficiency of conductive, 21:17535 (EUR-3155.e)
heat transfer from, analysis for SNAP-8, 21:8031
heat transfer from, boiling reactor dryout conditions for, 21:30084 (AECL-2876)
heat transfer from, comparison of externally and internally cooled, 21:8141
heat transfer from, discontinuous finite element method for analysis of transient, 25:18573
heat transfer from, effects of cladding heat flux and temperature on, 21:43147
heat transfer from, effects of surface profile on, 21:30301
heat transfer from, effects of surface roughness on, 21:43139
heat transfer from, effects of xenon cladding-to-fuel gap filler on, 24:5806
heat transfer from, electrically heated models for simulation of transient, 25:48233 (AEEW-M-937)
heat transfer from, turbulence promoter for efficient, 21:36256(P)
heat transfer holes for sheath-enclosed multi-section cylindrical, description of angular-displaced diametric, 22:42413(P)
heat transfer in AGR, optimization of, 23:26445
heat transfer in assemblies of rod-type, with parallel flow, effects of assembly geometry on critical, 24:50512
heat transfer in assemblies of, effects of surface friction and turbulence on, 23:11709 (AE-343)
heat transfer in boiling water, bottom flooding system effectiveness on post-accident, (E), 24:47868 (GEAP-10117)
heat transfer in boiling water, spray system effectiveness on post-accident, (E/T), 24:47869 (GEAP-13086)
heat transfer in boiling, MOXY computer program for X-Y, 23:17189 (IDO-17283)
heat transfer in bundle arranged rod type, effects of cladding deformation on, (T), 25:31673
heat transfer in bundle arranged rod type, TEMP computer program for, 24:29090 (BAW-10021)
heat transfer in bundle type water cooled, RAHDT computer program for radiation, 24:47881(R) (IN-1320)
heat transfer in bundle-type rod-shaped, analytic methods for axially uniform heat flux, 23:21490
heat transfer in bundle-type rod-shaped, effects of configurations and spacings on, 23:21491
heat transfer in bundle-type rod-shaped, review of, 23:21487
heat transfer in cladding boundary region of sodium cooled, (T), 24:40976
heat transfer in closely spaced rod bundles of, effects of rod spacing on critical, 24:19147
heat transfer in cylindrical, computer code for transient and steady-state, 25:51140 (RISO-M-1391)
heat transfer in densely packed rod-bundle, 21:45300
heat transfer in fused-center urania rods, connection, (E/T), 21:34167 (BNWL-418)
heat transfer in gas cooled rod cluster channels, HOTSPOT computer program for, 24:31058 (TRG-Report-1961)
heat transfer in gas-cooled reactors, 21:4665
heat transfer in hexagonal rod bundle type, (T), 25:12801
heat transfer in internally gas cooled annular, 25:5979 (DP-Report-435)
heat transfer in liquid metal cooled bundles of rod, effects in turbulent flow on, (E/T), 24:1987
heat transfer in liquid metal cooled bundles of unbaffled rod, analysis of, 24:1986
heat transfer in liquid metal-cooled bundles of, analysis of, 24:23422 (BNL-50223)
heat transfer in liquid metal-cooled reactor triangular-spaced unbaffled bundle-type rod-shaped, review of, 23:21492
heat transfer in liquid sodium cooled bundle arranged pin type, effects of rotating wire spacers on, (E/T), 25:37020 (WHAN-SA-76)
heat transfer in liquid sodium cooled, microthermocouple measurement of, 21:46967 (UJV-1814)

heat transfer in molten-fueled triangular-shaped bundle-type tube, analysis of two-dimensional, (T), 23:2030 (LA-DC-9807)
heat transfer in MTR plate type, in-core, (E/T), 24:36072
heat transfer in nine rod assemblies of, effects of grid and spacer configuration on, 25:28681(R) (GEAP-10221-6)
heat transfer in nine-rod bundles of uniformly heated pressurized water-cooled, critical, (E/T), 24:19146
heat transfer in nonuniformly heated water-cooled, critical, (E/T), 24:19145
heat transfer in parallel, with turbulent coolant flow, (T), 21:17496
heat transfer in porous, hybrid computer solution of time-dependent energy equations for, 24:46055
heat transfer in rod type, comparison of models for, (T), 25:12799 (TUBIK-17)
heat transfer in seven-rod superheating array, liner and space geometry influence on, 21:13977 (GEAP-5289)
heat transfer in simulated gas-cooled reactor concentric annulus, analysis of turbulent, 23:26051
heat transfer in unbaffled rod bundles of, with parallel laminar coolant flow, calculation of, 24:50513
heat transfer in uranium oxide (UO_2) WWER-type, method for calculation of at-power, 25:12798 (IAE-1942)
heat transfer in water-cooled rod bundles of, calculation of critical, 24:19143
heat transfer in Zircaloy-2-clad uranium oxide (UO_2)-fueled Spert 3 E-core, analysis of, (T), 22:35596(R) (IDO-17260)
heat transfer in, effect of surface roughness on, 21:14385
heat transfer in, inversion transformation solution for infinite half-space, (T), 23:24040
heat transfer in, limitations of, 21:1517
heat transfer in, use of GENGTC computer program for calculation of, 22:4341 (ORNL-TM-1942)
heat transfer measurement in bulk oxide cylindrical, computer program for, 22:16324 (WAPD-TM-618(Add.1))
heat transfer measurements for Annular Core Pulse Reactor, analysis of 900°C peak-fuel-temperature transient, 23:2075 (SC-DR-68-625)
heat transfer measurements for, in test holders in hot cells, 23:7692 (WERL-TAADM-1)
heat transfer measurements in 7-rod bundles of, effects of surface roughness on, 23:47693 (KFK-806)
heat transfer measurements in 7-rod bundles of, effects of surface roughness on, 24:7576(T) (EURFNR-664)
heat transfer measurements on roughened helium-cooled, in-pile, 22:22725
heat transfer measurements on simulated fast-breeder, in flowing air, steam, and water, 23:47694 (KFK-894)
heat transfer of fast, description of improved, 22:42446(P)
heat transfer of Marviken superheater, effects of surface roughness on, 21:30082 (AE-271)
heat transfer of Phoenix, transient, 21:40541(R) (BNWL-492)
heat transfer of single and nine-rod assemblies of, to water, relations with critical heat flux, 24:46416(R) (GEAP-10196)
heat transfer of water cooled, effects of cladding roughening on, 24:26784
heat transfer of, effects of surfaces on, 21:19481
heat transfer of, MACABRE II computer code for calculation of, 21:44844 (IN-1107)
heat transfer performance for 1000 MW(e) gas-cooled fast reactor, effects of partial surface roughening on optimum, (T), 22:50728 (GA-8268)
heat transfer properties of sodium-bonded, effects of bond defects on, 22:27487(R) (LA-3880)
heat transfer studies on roughened helium-cooled, in-pile, 22:5941
heat transfer studies on spiral-spacer-type fast breeder, 23:11239 (KFK-768)
heat transfer through eccentric annular gap in liquid metal bonded, accuracy of zero-dimensional gap model for, 24:24928
heat transfer to air from bundles of, effects of spacer arrangement on, 25:13153 (ZJE-66)
heat transfer to annular-flow boiling water from, effects of burnout on, 21:43159
heat transfer to carbon dioxide and air from, superposition method of determining temperature distribution in, 25:8409 (RD/B/N-1755)
heat transfer to coolant fluid from finned, device for increasing, 21:8000(P)
heat transfer to coolant from, effects of tube wall temperature oscillations on, (T), 24:2377 (CISE-R-176)
heat transfer to coolant from, helical wire brazing on can surface to improve, 23:37788(P)
heat transfer to displaced liquid metal cooled, single-rod multiregion analysis of slug-flow, (T), 25:28661
heat transfer to flowing liquids at supercritical pressures, effects of dimensions on, 25:54880
heat transfer to liquid metal from, calculation of, 23:38171
heat transfer to liquid metals from clustered rod-type, effects of cladding on, 24:44184 (BNL-50205, pp 134-67)
heat transfer to mercury from, effects of cladding and rod position on, 24:4406
heat transfer to turbulently flowing coolants, effects of surface roughness on, 25:54874 (RD/B/N-1980)
heat transfer to water cooled, two-region lumped parameter model for transient, (T), 25:28662
heat transfer to water in transition and film boiling regions, simulation studies on, 22:42960 (GEAP-5563)
heat transfer transients in pulsed, in pool-type reactors, thermal-hydraulic model for identification of, 21:30619 (SC-RR-67-19)
heat transfer within water-cooled, 22:14155
heat-transfer surfaces of, effects of decomposition of Santowax OM coolant on, 21:42811 (AECL-2527)
heating in graphite moderated tubular, calculation of fission-product gamma, 22:6135 (BNWL-625)
heating of plate-type, effects on thermal decomposition of Araldite resin in, 23:30198 (AEEW-M-831)
heavy-isotope content in Le Crosse Core I, determination using ISOCHECK, 21:5607 (CEND-275)
heavy-isotope content in Yankee Core V, determination using ISOCHECK, 21:5605 (CEND-271)
heterogeneous constants for cylindrical and slab shaped, HECS computer program for calculation of, 23:28621 (RISO-M-850)
hold-down and tightening mechanism for, design of, 25:18250(P)
holders and spacers for, testing in high-temperature sodium, 25:55379(R) (WARD-4210-T-1-2)
homogeneity in HFIR, operation and maintenance manual for density—thickness x-ray gage used in determining, 21:12696 (ORNL-TM-1687)
homogeneity of plate-type, radiographic determination of, 22:23235 (IN-1131, pp 116-22)
hot channel analysis of, use of thermal-hydraulic code for, 21:5627 (ORNL-4015)
hot channel factor analysis for FTR, direct/statistical method for, 24:7220
hot channel factors and temperatures for steam cooled, effects of coolant cross mixing on, 23:26040 (KFK-848)
hot channel factors for Bohunice Power Reactor Unit 1, calculation of, (E/T), 23:40278 (ZJE-44)
hot spot factors for, calculation of, (E/T), 24:46114
hydraulic analysis of FTR 37-pin assemblies, 23:31193(R) (BNWL-567)
hydraulic characteristics of bundle arranged rod type, TEMP computer program for, 24:29090 (BAW-10021)
hydraulic properties of, computer program analysis of, 21:40522 (AEEW-R-524)
hydraulic testing of HWOCR prototype, 21:38432(R) (AI-CE-4)
hydraulics for liquid sodium cooled rod type bundle assemblies of, 24:52917
hydraulics of, MACABRE II computer code for calculation of isothermal and nonisothermal, 21:44844 (IN-1107)
hydridation and oxidation in Zircaloy-2 and Zircaloy-4 cladding for, analysis of, 22:32895
hydrodynamic instability of, effects of high pressure water coolant flow on, 22:22812 (EUR-3881)
hydrodynamics in bundle-type rod-shaped, analytic methods for axially uniform heat flux, 23:21490
hydrodynamics of collapsing fluid slabs, graphic display methods for, 25:6199
hydrodynamics of water cooled 36 rod assemblies of, (E), 24:43604 (FRIGG-3)
hydroelastic instabilities in MTR-type flat-plate, analysis of static and dynamic, (E), 22:48743
hyperfine weight calculations for, comparison of PRIZE code with TWODIG, PERSEUS, CALIF, ARGOSY, and WIMS codes for, 25:1787 (RD/B/N-1724)
identification and control of, safeguards requirements for, 25:21326
identification marking of, system of magnetic inclusions for, 25:54307(P)
identification markings on power, U.S. standard for, 25:43995
identification of material in, during complete fuel cycle, containment method for tamper-proof, 25:21327
identification of power and test, use of beryllium or boron additives for, 23:40487(P)
identification of stainless steel-tagged pin-type, description of magnetic field for, 22:37579(P)
in-pile test loop for, analysis of transient caused by reactor shutdown in, 22:16295 (UJV-1937)
in-pile testing of CIRENE, description of facilities for, 23:21495
inspection and evaluation Incoloy-800-clad uranium oxide (UO_2) superheating clustered, for EVESR Mark-3 core, 22:3830 (GEAP-5481)
inspection by monitoring uranium-235, design and performance of thallium-activated sodium iodide scintillation detectors for, 21:36366
inspection by neutron radiography, 25:48757(T) (AERE-Trans-1120)
inspection during and after fabrication, multiple-exposure automatic radiographic equipment and method for, 25:6510
inspection equipment and procedures for metal carbide coated, 25:34417 (Y-DA-3934)
inspection facility for spent, design for, 21:30096(R) (APDA-CFE-5)
inspection in pool type reactors, remote method for in-core radiographic, 23:37619(P)
inspection of advanced irradiated, equipment design trends for, 24:474
inspection of dimensions of, machine for automatic, 24:9557
inspection of EBR-2, operation of Fuel Cycle Facility remote handling equipment for, 24:7355
inspection of EFFBR, 21:34077(R) (APDA-CFE-9)
inspection of FBR pin-type, methods for, 24:48874(R) (NP-18353)
inspection of inside of, optical system for, 22:23385(P)
inspection of irradiated assemblies of, radiographic method for, 23:24406 (LA-DC-10050)
inspection of irradiated liquid metal cooled, design parameters of profilometer for, 25:6033
inspection of irradiated uranium dioxide, x-ray, 22:51194
inspection of irradiated Yankee, 21:7980
inspection of irradiated, by neutron radiography, 22:4376
inspection of irradiated, hot cell design for, 23:40973
inspection of irradiated, in alpha, beta, and gamma hot cells under alpha shielding, development and performance of autoradiographic method for, 25:6504
inspection of irradiated, using anticoincidence gamma spectrometers, 24:404
inspection of mixed-oxide, high-resolution neutron radiographic method for, 25:4254
inspection of Peach Bottom Power Reactor Unit 1, analysis of 150 full-power day γ scan and visual, 23:15554 (GAMD-8703)
inspection of plate, use of ultrasonic imaging lamb-wave system for, 22:2318
inspection of plate-type zoned, automatic densitometer for analyzing radiographs for, 23:17825 (WAPD-TM-769)
inspection of plate-type, for homogeneity, x-ray attenuation scanning method for, 25:42031
inspection of plate-type, use of ultrasonic imaging Lamb-wave method of, 21:41173
inspection of plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 25:28757(R) (GEAP-10010-27)
inspection of plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 25:57111(R) (GEAP-10010-29)
inspection of plutonium, equipment and facilities for, 22:6512 (EUR-3619)
inspection of PNPF, 21:40546 (CONF-661001-54)
inspection of radioactive, automatic photographic system for, 21:8016
inspection of rod type, ultrasonic methods for, 24:13642
inspection of rod-type, eddy current method for, 25:57692(P)
inspection of sheathed, use of x-ray equipment for, 21:19876(P)
inspection of small superheater, postirradiation, 22:16263(R) (AEG-E-31-873)
inspection of spent fast, neutron radiographic method for, 24:402
inspection of spent Piqua Power Reactor, 21:23607(R) (NAA-SR-12148)
inspection of spent Shippingport, 21:40580(R) (WAPD-MRP-121)
inspection of spent, using 22-MeV betatron, radiographic method for, 24:403
inspection of SPERT 4 CDC Type 304 stainless steel-clad uranium oxide (UO_2) F-type, 23:17250(R) (IDO-17287)
inspection of swimming-pool reactor, description of watertight radiological transmitter and receiver for underwater, 22:25119(P)
inspection of Triga, periscope for, 21:19487
inspection of tubular cast uranium alloy, design and performance of ultrasonic testing equipment for internal, 23:11732 (CEA-CONF-1080)
inspection of unirradiated, description of nondestructive γ radiation method for, 23:4476
inspection of, design of equipment for in-pile, 21:43123(P)
inspection of, development of nondestructive methods for, 23:47717 (ORNL-4420, pp 188-97)
inspection of, electromagnetic induction, ultrasonic, and x-ray penetration methods for, 23:29107 (KURRI-TR-43)
inspection of, neutron radiographic method for, 25:21264
inspection of, neutron radiography method for, 23:2536
inspection of, use of slit camera for, 21:12255 (HW-52942)
installation of PM-3A second core, 21:1196 (NUS-220)
instrumentation for FFTF, minimum requirements for, 23:15674 (BNWL-CC-1012)
instrumentation for FFTF, specifications for, 23:7397 (BNWL-SA-1826)
instrumentation for SEFOR instrumented, 23:26047 (GEAP-5615)
insulation development for thermionic, 21:8045(R) (LA-3625)
insulation for pressure tube, description of double layer metallic thermal, 23:24049(P)
internal pressure limits at high burnup rates for, (E/T), 25:20741
inventory for BSR during October to December 1968, 23:21518(R) (ORNL-TM-2504)
inventory for ORR during October to December 1968, 23:21519(R) (ORNL-TM-2537)
inventory in power plants, standards for optimum reserve, (T), 24:28894
iodine reactions in Zircaloy-clad, 24:5662
iodine release from defected uranium oxide (UO_2), during reactor operation, (E), 25:31607
irradiation capsules for, for use in fast ceramic reactor, 21:19806 (CONF-660511-, pp 5.2.1-17)
irradiation history of, γ spectroscopy of fission products for calculating, 23:45143
irradiation of, transducer for measurement of internal gas pressure buildup during, 23:11924
irradiation testing in Japan of water cooled uranium oxide (UO_2), 25:1892
irradiation testing in NaK, at 950°C, 21:36943(R) (EURAEC-1870)
irradiation testing of aluminum-clad, 21:25935(R) (ANL-7225)
irradiation testing of cladding for, 21:19865 (CONF-660511-, pp 1.1.1-6)
irradiation testing of niobium-clad uranium monocarbide, in NaK, 21:36942(R) (EURAEC-1869)
irradiation testing of pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:43691(R) (DP-Report-355)
isotope content in Windscale Advanced Gas-Cooled Reactor, listing of heavy, 23:23911 (JNPC/SWP/N-40 and (Amend.1))
isotope distributions in uranium oxide (UO_2), effects of 22,000 MWd/tU on, (E/T), 23:4147 (WAPD-TM-766)
isotopic analysis of Connecticut Yankee, ISOCHECK method for, 21:13961 (CEND-287)
isotopic analysis of Dresden I Core IV, ISOCHECK method for, 21:23593 (CEND-289)
isotopic analysis of Elk River, ISOCHECK method for, 21:13960 (CEND-286)
isotopic analysis of fast reactor, comparison of methods for, 22:16120 (CEND-308)

isotopic analysis of Humboldt Bay, ISOCHECK method for, 21:13957 (CEND-281)
isotopic analysis of Indian Point, ISOCHECK method for, 21:13955 (CEND-268(Suppl.1))
isotopic analysis of Indian Point, ISOCHECK method for, 21:13954 (CEND-268)
isotopic analysis of mixed oxide, preirradiation, 22:50804 (BNWL-841)
isotopic analysis of N.S. Savannah, ISOCHECK method for, 21:13958 (CEND-282)
isotopic analysis of Oyster Creek, ISOCHECK method for, 21:23594 (CEND-290)
isotopic analysis of Pathfinder Core I, ISOCHECK method for, 21:13962 (CEND-283)
isotopic analysis of plutonium, use of lithium-drifted germanium gamma spectrometers for, 21:36365
isotopic analysis of San Onofre, ISOCHECK method for, 21:13956 (CEND-272)
isotopic analysis of Saxton, ISOCHECK method for, 21:13959 (CEND-285)
isotopic analysis of, CETIC computer program for use with ISOCHECK method for, 22:16310 (CEND-300)
isotopic composition analysis of irradiated mixed-oxide, 22:30343(R) (EURAEC-1992)
isotopic composition of Dresden Power Reactor Unit 1 Assembly SA-1 Zircaloy 2-clad uranium oxide (UO_2), effects of burnup on, 23:4145(R) (GEAP-5667)
isotopic composition of irradiated uranium in, 24:1998 (EUR-4238)
isotopic compositions of Modified Critical Facility, description of, 22:32969 (GA-8468)
jacket alloys for, radiation effects on, 22:30118 (ANL-7438)
jacket-alloys for, sodium corrosion of, 22:22653(R) (ANL-7419)
joining Zircaloy-2-clad, preparation and properties of zirconium braze alloys for, 21:18228(R) (IITRI-578-P-29-8)
joining Zircaloy-2-clad, properties of braze alloys for, 21:36824(R) (IITRI-578-P-29-14)
kinetic behavior of uranium oxide (UO_2), evaluation for pressurized water reactors of, 23:28445
kinetics of pulsed, calculation of, (T), 24:20624 (SC-DC-70-4753)
latch design for serially interlocking bundles of, 24:50247(P)
latch for prevention of movement of marine, 24:47928(P)
latch mechanism design to be used with end-to-end, 21:21815(P)
lattice measurements in ZED-2 on 28-element uranium dioxide, 21:5678 (AECL-2606)
lattice measurements on uranium—plutonium assemblies in Aquilon II and Cesar, 22:22844
lattices of, perturbation of neutron spectra by beam extraction hole in, 23:4450
leak detection in liquid sodium-cooled reactor, analysis of gold-198 in liquid sodium for, 23:17237(P)
leak detection in, use of small pneumatically or hydraulically actuated valve for, 21:12558
leak detector for, development of, 21:31898(R) (ANL-7329)
leak detector system for BR-5, design of, 23:52410(T) (JPRS-48330, pp 553-90)
leak detectors for, description of, 22:5918 (CEA-Bib-78)
leak detectors for, electrostatic precipitation, 22:16958
leak test results for HWOCR, 21:38432(R) (AI-CE-4)
leak testing of cans for, method and equipment for, 21:32341(P)
leak testing of, description of method for, 22:42460(P)
leakage of, review of detection methods in water reactors using FEDAL system for, 21:17468 (RISO-M-496)
lifetime of, effects of other reactor parameters on, 22:5993
lifting SEFOR, design of fixture for remote, 23:26047 (GEAP-5615)
liquid flow problems in assemblies of aluminum—plutonium alloy plate, safety aspects of, 24:43807 (BNWL-1409)
loading and unloading of liquid metal cooled, use of frozen coolant plugs for, 24:5530(P)
loading and unloading of, machine for, 21:23772(P)
loading coated fuel particles into graphite, 22:11046 (ORNL-TM-2061)
loading configuration for Elk River Power Reactor Cycle 3, 21:46861(R) (NUS-401)
loading configuration of, HEBUS computer program for, 23:28416 (RISO-M-864)
loading device for, method for locating fuel channels for, 21:19834(P)
loading guides for, description of internally grooved three rib rotating, 23:37836(P)
loading in AFNETR, calculation of maximum, (T), 21:2872 (AD-635041)
loading in Army PM-3, in Antarctica, 21:25702 (NYO-10736)
loading in Elk River Power Reactor, optimum configurations for, 21:21620(R) (ACNP-65602)
loading in NPD, schedule for startup-to-equilibrium, 21:7953
loading in reactors, design of mobile charging machine for, 21:34382(P)
loading in Yugoslav RA reactor, optimum schedule for, 21:19490
loading into bottles, design of equipment for, 23:7685(P)
loading machines for, design of winches for, 24:48252
loading method for multi-zone fast breeder reactors, analysis of optimum, (T), 23:2037
loading of clad ceramic, incorporating in-sheath fracturing of fuel bodies, 23:12400(P)
loading of EBR-II, equipment and procedures for, 21:35631
loading of liquid sodium cooled fast, review of problems in, 23:47151 (ANL-7520(Pt.2), pp 3-19)
loading of Obrigheim first core, 23:15586
loading of Saxton Power Reactor Core 3 Zircaloy 4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2), diagram for, 24:3998(R) (WCAP-3385-20)
loading pattern for Elk River reactor Core II, (E), 21:1153(R) (ACNP-66557)
loading procedures for plutonium, analysis of safety, 24:1998 (EUR-4238)
loading processes for rod-type, research on resin-bonded particulate thorium carbide—uranium carbide, 23:14379 (GAMD-8330)
loading scheme for heavy water moderated reactors, REFLOS computer program for optimum, 23:33034 (EUR-4250)
loading standpipe for, coolant flow regulating valve for, 25:28830(P)
loading techniques for moderated can-enclosed rod-type, description of, 22:42481(P)
location of failed, in multichannel irradiation facilities, (T), 22:33003
locking mechanism design for, 21:27837(P)
lugs for positioning assemblies of, description of perimeter located guide, 24:20648(P)
machining grooves in tubular, design of tool for, 22:19028(P)
machining of Bugey-type, electrolytic method for, 24:50494 (CEA-N-1251)
machining of, electrolytic baths for, 24:11505 (IA-1190, pp 133-81)
maintenance tools for stringer type, description of remote handling and remote viewing in-core, 24:9169(P)
management in liquid metal fast breeder, optimization of radial blanket, 25:15378
management of Italian power, description of optimum cycles for, 22:22776
management of light water and liquid metal fast breeder comparison of schemes and economics for, 24:18596
management of power, effects on fuel cycle costs of in-core, 24:52946
management of PWR, economic and planning factors affecting in-core, 24:18528
management schemes for PWR, optimization of in-core, 24:18527
manufacture in Euratom, 21:14128(R) (NP-16468(Vol.1))
marking for differentiating between normal and test, 22:4759(P)
materials diversion from, technical requirements for safeguards against, 21:45627 (WASH-1076, pp 28-34)
materials evaluation for cladding for, 21:31059(R) (HW-84517)
materials for heterogeneous reactor, handbook on, 21:23699
materials for HWOCR, 21:23587(R) (AI-CE-31)
materials for, measurements of internal damping of vibrations in, 22:6142
materials for, review of properties of, 21:23759
materials management programs for, summaries of research and development, 23:19924 (WASH-1122)
measurement of, use of U-tube for, 23:17654(P)
measurements on EBR-II, at increasing burnup levels, 21:4590 (ANL-7125, pp 21-60)
mechanical analysis of, mathematical models and methods available for, 22:25145
mechanical and physical properties of molybdenum—urania, effects of composition on, 21:45996 (GEMP-545)
mechanical interactions between plutonium oxide (PuO_2)—uranium oxide (UO_2), fuel material and stainless steel cladding of, 25:48263 (ORNL-TM-3508)
mechanical properties of aluminum-base dispersion-type plate-shaped, effects of fuel concentration on, 23:4323
mechanical properties of carbon-containing resin-bonded stick-type silicon carbide (SiC)-coated uranium oxide (UO_2) and thorium oxide (ThO_2), effects of carbonization and curing on, 22:42200(R) (ORNL-4200)
mechanical properties of cylindrical waterlogged, effects of transient power increase on, (E/T), 22:30170
mechanical properties of cylindrical, computer program for analysis of, 21:8130
mechanical properties of dilute uranium alloys at high temperatures, 21:9141 (MCW-1505)
mechanical properties of sintered beryllia—thoria—urania, 21:25735 (AAEC/TM-338)
mechanical properties of sodium-cooled fast reactor, effects on temperature on, 22:18511
mechanical properties of stainless steel—uranium dioxide dispersion-type, 24:10142 (GEMP-719)
mechanical properties of stainless steel—uranium nitride dispersion-type, 24:10142 (GEMP-719)
mechanical properties of steam cooled fast breeder, results of testing of, 23:23914
mechanical properties of Type 304 stainless steel—urania, 21:46025(R) (BNWL-CC-761)
mechanical properties of Zircaloy-4 clad, 21:38432(R) (AI-CE-4)
mechanical properties of, effects of coolant flow velocity and temperature on, 22:30391
meltdown and dispersal of mixed-oxide, in sodium-cooled reactors, (E/T), 22:27397 (ANL-7375, pp 135-59)
meltdown due to migratory plug in Fermi, analysis of probability of, 21:35633
meltdown during coolant-loss accidents, safeguards against, 22:5980
meltdown experience at ORNL, 21:40619
meltdown experiments for, design of equipment for photographic observation of, 25:15384 (ANL-7578)
meltdown in coolant loss accidents, cascade impactor for size classification of aerosols released during, 23:24027 (CONF-680821-, pp 263-311)
meltdown in fast breeders, effects on reactivity, 21:12178
meltdown in simulated water coolant-loss accidents, behavior of fission products released from, 23:23939 (IN-1172)
meltdown in water-cooled reactor coolant-loss accidents, metal—water reactions during, 23:9264
meltdown incidents of Engineering Test Reactor plates, 22:16276 (CONF-671011-, pp 370-6)
meltdown of clad-urania, in simulated excursions, 21:7967
meltdown of EBR-II pin in TREAT flowing sodium loop, 21:40537 (ANL-7349, pp 115-33)
meltdown of EBR-II prototype, effects of high specific energy input on, 21:38573
meltdown of fast reactor plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of krypton and xenon fission products in, (E), 24:7123
meltdown of fast, effects of coolant loss on, (T), 24:46075
meltdown of fast, loop design for studying, 21:38571
meltdown of Fermi Fast Breeder, summary of plant operation prior to, 23:31099 (APDA-233)
meltdown of Fermi, anomalous reactivity effects in, 21:38517
meltdown of Fermi, fission product activity analysis to determine extent of, 21:38516
meltdown of irradiated, in inert-gas atmosphere, (E), 21:34124
meltdown of KW Hanford Production Reactor, recovery procedures and damage analysis for, 23:52436 (DUN-SA-112)
meltdown of liquid metal cooled metal and oxide, energy release calculations for, 25:6082
meltdown of liquid metal cooled, effects of configuration and materials on, 25:18168 (ANL-7752)
meltdown of liquid metal cooled, heat transfer and pressure pulses from fuel-sodium interactions during, 25:41545
meltdown of liquid sodium cooled stainless steel clad uranium oxide (UO_2) rod type, use of TREAT for testing, 24:47877 (ANL-7610, pp 259-367)
meltdown of liquid sodium cooled uranium oxide (UO_2) pin type, 25:6097
meltdown of liquid sodium cooled uranium oxide (UO_2) pin type, fuel-sodium interaction during, 25:41542
meltdown of liquid sodium cooled, fuel-sodium interaction during, 25:41482
meltdown of plutonium—uranium, testing in TREAT core, 21:8098
meltdown of sodium cooled Type 304 stainless steel clad uranium oxide (UO_2), (E), 24:7175
meltdown of sodium cooled Zircaloy clad uranium oxide (UO_2), behavior analysis for transient, (E), 24:7155
meltdown of sodium-bonded thorium-20 wt percent uranium, 21:20500
meltdown of uranium carbide (UC) rod type, use of electron microprobe for analysis of, 23:28639
meltdown of water cooled, hydrogen release from uranium oxide (UO_2)—water reactions during, (E), 25:54159 (IN-ITR-108)
meltdown of water-cooled, in-core pressures from, 21:40575(R) (STL-372-50)
meltdown of water-logged urania pellet rods in TREAT, photographic studies of, 21:38733
meltdown of water-submerged Zircaloy-2-clad pelletized and vibra-packed uranium oxide (UO_2), analysis of, 22:53260 (ANL-7425, pp 130-71)
meltdown of Zircaloy-2 clad uranium oxide (UO_2), effects of water at 2200°C on, 22:30388
meltdown of Zircaloy-2-clad urania fuel rods in TREAT, metal-water reactions during, 21:40537 (ANL-7349, pp 115-33)
meltdown of Zircaloy-2-clad uranium dioxide, metal-water reaction during, 21:13947(R) (ANL-7286)
meltdown of Zircaloy-clad, 22:4231(R) (IN-1087)
meltdown of Zircaloy-clad uranium oxide (UO_2)-core, in simulated water-coolant loss accidents, 22:27397 (ANL-7375, pp 135-59)
meltdown of, fragmentation mechanism during, (T), 25:6083
meltdown simulation for loss-of-coolant accident by induction-heating method, 21:31898(R) (ANL-7329)
meltdown sodium cooled fast, CABRI reactor loop program on, 23:31182 (CEA-CONF-1259)
melting failure of plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of power transients on, 22:50732(R) (GEAP-5631)
melting of aluminum alloy—uranium alloy plate type, postirradiation examination of, 23:33118 (IN-1228, pp 20-73)
melting of ceramic fast, analysis of effects on reactivity of, 22:53382
melting of FTR stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:7126
melting of FTR, effects of fuel motion restrictor configuration on reactivity change from, (E/T), 22:50794 (BNWL-623)
melting of natural uranium gas cooled, causes for, 25:12764
melting of water-cooled, effects of, 21:40575(R) (STL-372-50)
melting of, fission product release during in-pile, 22:27490 (ORNL-4229, pp 149-55)
melting point of plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of burnup on, 22:33172
melting point of plutonium oxide (PuO_2)—uranium oxide (UO_2), nonstoichiometric effects on, 22:33171
metal alloys for, postirradiation density measurements on, 22:16265(R) (ANL-7403)
metallurgy of Zircaloy clad uranium oxide (UO_2), effects of burnup on, 22:22810 (DP-995)
microstructure of, radiographic studies on, 21:10208
microstructures of irradiated FFTF driver, 23:50978(R) (BNWL-971)
mockup of gas cooled finned, development of electrically heated, 25:15410 (ZJE-92)
mockup of pin type, with liquid sodium bond, 25:31571
modification of plutonium—aluminum, for use in lattice physics measurements, 23:17265(R) (GA-9051)
modification of PNPF, 21:23607(R) (NAA-SR-12148)
monitoring in fuel jackets, design of detector device for, 24:5850(P)

monitoring of leached, 14-MeV neutron generator for, 22:14433 (ORNL-4196, pp 66-89)
motion of pebble-bed, effects on coolant flow behavior of, 21:35569 (EUR-3284.d)
mounting device for, design of, 21:2907(P)
mounting of shipboard, fasteners for, 21:8013(P)
multiplication factor of BWR-type, determination of infinite, (E/T), 22:44839 (UNC-5195)
multiplication factors in, measurement of effective, 21:30138(R) (GA-7934)
neptunium-237 production in tubular uranium, Monte Carlo calculations of resonance interference during, 22:33149
neutron absorber rods for reactivity control in assemblies of, description of removable, 23:9267(P)
neutron absorbers in locking mechanisms for, description of, 22:42434(P)
neutron absorption in boron-10-poisoned, use of Monte Carlo codes for calculating, 22:39902 (KAPL-P-3432)
neutron absorption in clusters of plutonium recycle, ratio of neutron slowing-down density to epithermal, (E/T), 24 3001(R) (MIT-3944-4)
neutron absorption in hexagonal and square lattices of, Dancoff correction for resonance, 21:13941 (AE-257)
neutron absorption in two-region cylindrical, computer program for calculation of resonance integrals and cross sections for, 25:3528 (KFKI-70-12-RPT)
neutron absorption in, ratio of unit slowing-down density to epithermal, (E/T), 24:53000(R) (MIT-3944-1)
neutron absorption measurements in, Dancoff effect determination from, 21:8104
neutron absorption resonance integrals for lattices of, Dancoff corrections to, (T), 23:19553
neutron buckling calculations of heavy water moderated annular shaped, WELWING computer program for, 24:28994 (PEL-183)
neutron buckling in moderated clustered Agesta, 21:14061 (AE-254)
neutron buckling in, formulas for perturbation theory calculations of, 21:2873 (AE-248)
neutron buckling measurements in enriched-uranium, water moderated tube-type, 21:38715
neutron buckling measurements in heavy water moderated, theoretical analysis of, 21:31962
neutron buckling measurements in lattices of, precision of radial, 22:30343(R) (EURAEC-1992)
neutron buckling measurements in water-moderated thoria—urania, 21:38716
neutron buckling measurements of natural uranium rods, 21:40688
neutron buckling measurements on, 21:19457 (BNL-50012)
neutron buckling measurements with 3 coolants in ZED-2, 21:5678 (AECL-2606)
neutron buckling of 7- and 19-rod uranium dioxide, HAMMER code analysis of, 21:8100
neutron buckling of slightly enriched uranium tubes in light water, measurements of, 21:12246
neutron capture and fission in enriched uranium oxide (UO$_2$), measurement of Doppler effects on epithermal, 23:33114
neutron capture by uranium-238 in uranium carbide, resonance, 21:17534 (EUR-3152.e)
neutron collision probabilities for annular or cylinder shaped coated particle, calculation of first flight, (T), 24:36086
neutron collision probabilities for square clustered assemblies, CLUP 77 computer program for, 25:23395 (JAERI-1196)
neutron collision probabilities for, semianalytical method for calculating, 24:7295
neutron collision probabilities in, determination of directional, 21:25738 (EUR-3296.e)
neutron collision probabilities in, method for calculation of, 21:25743
neutron decay constants in uranium, cross section averages for calculation of, 21:31939 (K-DP-2251)
neutron density microdistribution in water moderated aluminum—uranium oxide (UO$_2$) tube type, (E/T), 24:26816
neutron disadvantage factor calculations for, use of PANTHER code for, 21:40695(R) (EURAEC-1886)
neutron distribution in clusters of rod type, calculation of first flight collision probabilities for, (T), 25:60235
neutron distribution in, exact measurement of thermal, 21:32024
neutron Doppler coefficient measurements in uranium carbide, activation method for, 21:32038
neutron dose rates and yields from mixed oxide recycle, 25:18098(R) (BNWL-1522-1)
neutron emission from clusters of plutonium recycle, ratio of thermal neutrons absorbed in fuel to fast, (E/T), 24:53001(R) (MIT-3944-4)
neutron emission from, ratio of thermal neutrons absorbed in fuel to fast, (E/T), 24:53000(R) (MIT-3944-1)
neutron fission and absorption rate measurements in water-moderated lattices of plutonia—urania, temperature dependence of, 21:38713
neutron fission distribution in fast, in thermal test reactors, (T), 25:41400
neutron fission effects in cluster lattices, fast, (E), 21:27564 (EIR-104)
neutron fission in uranium-235-enriched uranium dioxide rods, temperature dependence of, 21:38319
neutron fission ratio in single rod, calibration factor P(t) for fast, (E/T), 24:50242
neutron fission ratio measurement in, computer program for, 21:44876
neutron flux at surfaces of clusters of plutonium recycle, ratio of thermal neutrons absorbed in fuel to asymptotic thermal, (E/T), 24:53001(R) (MIT-3944-4)
neutron flux at surfaces of, ratio of thermal neutrons absorbed in fuel to asymptotic thermal, (E/T), 24:53000(R) (MIT-3944-1)
neutron flux distribution in clusters of, effects of central poison rods on thermal, (E), 24:41068
neutron flux distribution in heavy water moderated, effects of burnup on thermal, (T), 24:31043 (UJV-2352-R,T)
neutron flux distribution in JRR-2, use of activation analysis for measurement of, 23:49598
neutron flux distribution in plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, use of transport theory for calculation of, (T), 22:44941
neutron flux distribution in pressurized-water reactor type 304 stainless steel-clad uranium oxide (UO$_2$) pellet-type, effects of temperature on, 22:30167(R) (WCAP-3708)
neutron flux distribution in, measurement of, 21:46945 (JUL-456-RE)
neutron flux distributions in a 19-rod urania, comparison of calculated and measured values, 21:31904 (BNWL-SA-1176)
neutron flux in clustered, equation solution using ZIP ZIP 3 code, 21:14110 (EUR-3124.i)
neutron flux in fast gas-cooled, activation analysis determination of thermal, 21:38463(R) (ORNL-4133)
neutron flux measurements in ORGEL-type, 21:30268
neutron flux measurements in plutonium-enriched, 21:38663(R) (GEAP-5486)
neutron flux measurements, effects of lattice configuration on, 21:38742 (EIR-100)
neutron flux of irradiated, equipment for measuring, 23:16005 (CEA-CONF-1121)
neutron flux peaking in, methods for calculating, 22:50850
neutron flux perturbation in single uranium and uranium—plutonium, method for calculation of, 22:1874
neutron flux perturbations by proposed Gentilly startup booster rods, (E), 23:37357 (AECL-3258)
neutron flux plane determination in continuous plates, empirical method for, 21:5610 (EIR-96)
neutron flux spectra in hollow aluminum clad aluminum—uranium alloy, GYMEA and WDSN computer programs for, 24:24874 (AAEC/TM-509)
neutron fluxes in plate-type, graphical method for determining, 22:30345 (KAPL-M-6914)
neutron fluxes in pressure tubes, fast, 21:2651(R) (AECL-2612)
neutron group constants in lattice cells of single pin, K-7 THERMOS computer program and fast methods for calculation of thermal, 23:26125
neutron leakage effects from seed-blanket assembly on fast advantage factor for thoria, 21:44878
neutron leakage reduction by boron in, 21:27731
neutron migration in light water, Monte Carlo calculations of, 24:7307
neutron multiplication factor calculation for, in liquid moderated lattices, 21:35707 (CNEA-184)
neutron multiplication factor measurements in water-moderated plutonia—urania, in PRCF, 21:38722
neutron multiplication factors for Phoenix, comparison of experimental and calculated values for, 22:14251(R) (BNWL-534)
neutron multiplication factors for tubular, with integral target rods in water lattices, infinite medium, (E/T), 25:1966 (BNWL-1501)
neutron parameter determination in heterogenous lattices, (E/T), 22:32976(R) (MIT-2344-12)
neutron physics of plutonia—stainless steel cermets, urania—stainless steel cermets, plutonia—urania, and urania, for Fast Test Reactor, 21:21785
neutron radiography of radioactive, television imaging system for, 21:6349
neutron reaction rate measurements in plutonium, 22:33079
neutron reaction rates in, γ spectrometric methods for determination of, (E), 24:53001(R) (MIT-3944-4)
neutron reaction rates in, γ spectrometric methods for determination of, (E/T), 24:53000(R) (MIT-3944-1)
neutron resonance absorption in square and hexagonal, Dancoff correction for, 21:42825
neutron resonance absorption in, use of integral transport theory for, 22:33012
neutron resonance capture integrals of uranium-238 in three different clustered, (E/T), 24:18782 (RISO-M-1204)
neutron resonance escape probability in uranium and uranium oxide, Monte Carlo calculation of, 22:32989
neutron resonance integrals and initial conversion ratios for rod-cluster, method for calculating, 21:40442
neutron resonance integrals for thorium oxide (ThO$_2$) rod, (E/T), 25:6205
neutron resonance integrals in cylindrical, effects of nonuniformities on, (T), 23:19561
neutron space and energy distribution in cylindrical heterogeneous, thermal, 22:3934 (UJV-1836)
neutron spectra around single thermal, (E), 21:8133
neutron spectra in lead—bismuth cooled Zircaloy clad natural uranium oxide (UO$_2$), (E), 24:13540 (AECL-3192)
neutron spectra in simulated aluminum—plutonium alloy cylinder shaped, analysis of epithermal and thermal, (E/T), 24:26742 (GA-9658(Vol.1))
neutron spectra in sodium moderated lattices of, collision probability method for determining sodium resonance effects on, 23:13581
neutron spectra in water moderated aluminum—plutonium alloy rod type, analysis of thermal, (E/T), 24:26742 (GA-9658(Vol.1))
neutron spectra in water moderated uranium rod type, analysis of thermal, (E/T), 24:26742 (GA-9658(Vol.1))
neutron spectra indices for ORGEL-type uranium carbide (UC), epithermal and thermal, 22:16145 (EUR-3736)
neutron spectra measurements in cylindrical graphite- and water-moderated plutonium, Cadilhac method for thermal, (E/T), 22:27482 (EUR-3350)
neutron spectra with upscattering in, comparison of measurement and calculation of, 22:30320
neutron spectrum distribution in rod-type, effects of cluster configuration on thermal, 23:26108 (EUR-3940-1, pp 3-25)
neutron spectrum in heavy water-moderated cluster-type uranium and uranium carbide (UC), activation techniques for measuring hyperfine structure of thermal, 23:15743
neutron spectrum in plutonium-water, study of spatially dependent, 21:23599(R) (GA-7562)
neutron spectrum in water moderated, computer program for thermal, 25:28802 (EUR-4554)
neutron temperature measurements in, method for integral, (E/T), 22:32976(R) (MIT-2344-12)
neutron temperature measurements on uranium dioxide, in ZEEP with different coolants, 21:10201 (AECL-2626)
neutron thermal utilization for noncylindrical assemblies of cylindrical rod, calculation of, (T), 23:11338
neutron thermalization calculations for plutonia—urania, results of, 21:23711(R) (BNWL-340)
neutron thermalization in water-moderated, diffusion theory calculation of, 21:13949 (BMwF-FBK-66-20)
neutron utilization by, cylindrical cell approximation for thermal, 21:31963
neutronic coupling in fast breeder, 21:40611
neutronics characteristics of boiling and pressurized water, uses of Monte Carlo programs for, 23:15732 (ANS-RPD-1, Paper 4A)
operating limits for gas cooled graphite and silicon carbide coated plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) particles, 25:3875 (EURFNR-834)
operating parameters for HWOCR prototype, 21:38432(R) (AI-CE-4)
operating parameters of EVESR, COUGAR-code for determination of thermal-hydraulic, 21:34110 (GEAP-5478)
operation in NPD, effects of defects on, 21:1155 (AECL-2608)
operation of wrapper tube, effects on operation of liquid sodium cooled fast power reactors of, 24:22413
oscillations from coolant flow over spacer-supported rod, natural frequencies, eigenfunctions, and damping of transverse, (E/T), 23:9236(T) (EURFNR-529)
oscillations of fast breeder, effects of coolant hydrodynamic forces on, (E/T), 24:18651 (KFK-964, Sect. 4.1-15)
oxidation by water vapor of coated, 21:25630(R) (ORNL-4071)
oxidation of high temperature gas cooled, results of in-pile, 22:27416(R) (ORNL-4228)
oxidation of high temperature gas-cooled reactor bonded bed stick type, test facility for steam, 23:28487 (ORNL-4353, pp 1-109)
oxidation of HTGR, transient effects in, 24:36356 (ORNL-4586, pp 98-117)
particle type, description of liquid metal cooled reactor frozen coolant plug regulated, 23:45087(P)
pellet loading device for research, 21:38735(P)
pellet-type sealed gas-forming manganese oxalate-decomposing gas-forming uranium oxide (UO$_2$), for pressurized-water reactors, 23:17192(P)
performance analysis for, 23:7664 (ORNL-4370, pp 212-18)
performance at 1175°C of clad uranium—zirconium hydride, 22:31474
performance comparison of Zircaloy clad pelleted and vibrocompacted uranium oxide (UO$_2$), 24:4175
performance during power transients, effects of plutonium oxide (PuO$_2$) particle size on mixed oxide, 25:18098(R) (BNWL-1522-1)
performance evaluation of fast mixed-oxide, 21:46854(R) (GEAP-5098)
performance evaluation of low-burnup mixed oxide plutonium, 22:7802(R) (EURAEC-1923)
performance in high-temperature gas-cooled reactors, 21:42733
performance in Piqua reactor, postirradiation examination of, 21:40564(R) (NAA-SR-12395)
performance limits for liquid metal cooled pin type, thermal, 25:44121 (HEDL-SA-89)
performance limits for liquid sodium cooled pin type, (E), 25:37064 (HEDL-SA-81)
performance limits for liquid sodium cooled stainless steel clad uranium oxide (UO$_2$) pin type, 25:51031(R) (RCN-143)
performance measurements of, instrument development for, 21:19984 (CONF-660511-, pp 8.3.1-32)
performance model development for fast, use of OLYMPUS and CYGRO-F codes for, 24:22408 (WARD-4135-3)
performance model development for stainless steel clad mixed oxide fast, use of OLYMPUS and CYGRO-F codes in, 24:41017
performance of 1000 MW(e) HTGR-type reactor laminar carbon- and silicon carbide (SiC)-coated uranium carbide (UC$_2$) particle-type, effects of pressure and temperature on, 23:13412(R) (GA-8530)
performance of 250 MW(e) ORGEL Reactor G-30, effects on plant economics of, 23:33051 (EUR-4251)
performance of alloy and carbide, as fast test reactor drivers, (E/T), 21:27826 (BNWL-SA-1042-S(Rev.A))
performance of aluminum-base dispersion-type, effects of void volume on irradiation, 23:36163
performance of Big Rock Point Power Reactor assemblies of Zircaloy 2 clad uranium oxide (UO$_2$), effects of power operation on, 23:23826(R) (GEAP-5751)
performance of boiling and gas cooled reactors, in Italy, 25:53889 (A/CONF.49/P-188)
performance of boron carbide and boronated graphite, in gas-cooled reactors, 21:30291
performance of CANDU, in NPD, 21:12182
performance of carbide, in TREAT, 25:4889(R) (UNC-5263)
performance of carbide, metallic, and oxide driver, 21:30091(R) (ANL-7210)

performance of ceramic, effects on power plant economics of, 25:20739
performance of clad plutonium nitride pin-type fast reactor, 24:10206
performance of clad uranium dioxide, 22:16356 (KR-116)
performance of controlled expansion, in large fast breeders, (T), 21:1180 (WCAP-3589-2)
performance of CVTR, at 65 MW (fission), 21:38445 (CVNA-286)
performance of cylinder shaped fast reactor, LIFE 1 computer program for, 25:12794 (ANL-7736)
performance of cylinder shaped, effects of high burnup on mechanical and thermal, 24:7363
performance of cylindrical oxide fast, thermal, radiation, and mechanical analysis of, (T), 25:15371
performance of defected mixed oxide, in flowing sodium, (E), 25:1888(R) (GEAP-10028-35)
performance of defected mixed oxide, in flowing sodium, (E), 25:54096(R) (GEAP-10028-38)
performance of defected mixed oxide, in flowing sodium, 24:43762(R) (GEAP-10028-33)
performance of defected mixed uranium oxide (UO_2)—plutonium oxide (PuO_2) in flowing sodium, (E), 25:28691(R) (GEAP-10028-37)
performance of defected plutonium oxide (PuO_2)—uranium oxide (UO_2), in flowing sodium, 24:46043(R) (GEAP-10028-34)
performance of defective mixed oxide, in flowing sodium, (E), 25:18137(R) (GEAP-10028-36)
performance of failed NaK cooled plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, (E), 25:25983 (GEAP-13620)
performance of fast breeder, effects of inner ribs on thermal, (T), 24:29013 (KFK-1118)
performance of fast breeder, effects of internal fins on heat transfer, (T), 25:10223
performance of fast gas-cooled, 21:38463(R) (ORNL-4133)
performance of fast gas-cooled, effects of surface roughening on, 22:5939
performance of fast mixed oxide, ISUNE 1 computer program for, 24:33322
performance of fast reactor pin type, effects of core configuration on optimum, (T), 23:21482 (EURFNR-610)
performance of fast reactor pin-type, comparison of, 23:15673(R) (BNWL-541)
performance of fast, computer program for in-core, 25:6032
performance of fast, computer program model analysis of, 24:7134
performance of fast, development of methods for analysis of, 25:39251 (A/CONF.49/P-838)
performance of fast, effects of niobium and molybdenum on, (T), 25:6055
performance of fast, program for analysis of, 25:12768(R) (EURFNR-855)
performance of fast, use of BRAV code for analysis of, 24:52922
performance of fast, use of OLYMPUS code for analysis of, 25:34365
performance of gas cooled fast, effects of fuel and cladding interactions on, 24:4061 (ORNL-4424, pp 75-98)
performance of gas cooled fast, effects on fuel cycle costs of, (T), 25:44131
performance of gas cooled graphite moderated power, analysis in France of optimum economic, 25:3878
performance of gas cooled, effects of surface shape on, (T), 25:26000
performance of Geesthacht Power, analysis of, 23:28367
performance of graphite moderated gas cooled reactor, 25:53903 (A/CONF.49/P-500)
performance of high exposure uranium oxide (UO_2) rods operating with central melting, 23:40367(R) (GEAP-5771)
performance of high temperature gas cooled power reactor uranium carbide (UC_2) particle type, effects of helium and steam on, 23:33066(R) (ORNL-4374)
performance of hollow cylinder shaped uranium carbide (UC_2), 24:31068 (LA-4411)
performance of HTGR, in accidents with steam entering core, 22:27490 (ORNL-4229, pp 149-55)
performance of instrumented, in Garigliano reactor, 21:1163(R) (GEAP-5190)
performance of irradiated Piqua, 21:7885(R) (NAA-SR-12175)
performance of irradiated Zircaloy-2-clad uranium dioxide, 25:24664(R) (GEAP-10287)
performance of liquid metal cooled stainless steel clad uranium oxide (UO_2) pin type, effects of overpower transients on, 25:57046 (GEAP-13722)
performance of liquid metal cooled Type 347 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, effects of high temperature and burnup on, 25:57045 (GEAP-10385)
performance of liquid sodium cooled instrumented cluster arranged rod type, 25:54196 (ANL-7757)
performance of liquid sodium cooled mixed oxide pin type, effects of power transients on, 25:6016
performance of liquid sodium cooled pin type, effects of coolant loss conditions on, 25:41541
performance of liquid sodium cooled stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, (E/T), 25:37019 (ORNL-TM-3386)
performance of liquid sodium filled uranium oxide (UO_2) pin type, effects of overpower transients on, 25:41434
performance of LMFBR-type, models for prediction of in-pile, 24:46127
performance of long-burnup, at high-temperatures using gas coolants, 23:8262
performance of metal clad oxide, CYGRO-3 code for analysis of in-pile, 25:51101
performance of mixed oxide and cermet, 21:42725(R) (ANL-7357)
performance of mixed oxide fast, during transient conditions following extended burnup, (T), 24:38550
performance of mixed oxide fast, effects of fuel-clad gap thermal conductivity on, (E), 25:5999
performance of mixed oxide pin-type, under thermal stress and fuel motion restriction, 24:46773(R) (WARD-4135-8)
performance of mixed oxide, effects of fuel, sodium, fission product, and cladding compatibility on, 24:43762(R) (GEAP-10028-33)
performance of mixed-oxide, with center melting, 23:36280
performance of molybdenum—uranium alloy, in Godiva 4 Reactor, 24:11234 (CONF-690102-, pp 95-104)
performance of MTR type uranium—aluminum alloy, under steady state and transient operation, (E), 24:18722 (RISO-M-982)
performance of oxide, 21:33015
performance of Peach Bottom Power Reactor, 21:35629
performance of pellet shaped uranium oxide (UO_2), analysis of high burnup and power, (T), 24:7366
performance of pin and tube configurations of, 21:5706 (UCRL-14986)
performance of pin type, SATURN computer program for effects of voids on thermal stress, 24:33484 (KFK-1088)
performance of pin, computer program calculation of mechanical and thermal, 25:54319
performance of pin-type, CYGRO computer program for analysis of, 24:46773(R) (WARD-4135-8)
performance of plutonia—urania, in sodium-cooled reactors, 21:17476(T) (NP-tr-1491)
performance of plutonium carbide (PuC)—uranium carbide (UC) fast breeder, effects of chloride vapor cooling and fused chloride bonding on, 24:13549 (EIR-167)
performance of plutonium dioxide—uranium dioxide, at 50,000 MWd/t burnup, 22:4913
performance of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:46043(R) (GEAP-10028-34)
performance of plutonium oxide (PuO_2)—uranium oxide (UO_2), in boiling water reactors, (E), 25:15365(R) (NEDC-12111)
performance of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, effects of burnup on thermal, 25:37017 (CONF-710414-1)
performance of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, FMODEL computer program for mechanical and thermal, 24:7121
performance of plutonium—uranium carbide, in EBR-II, 23:36283
performance of pressurized water cooled internal pressure Zircaloy clad, 24:7119
performance of pressurized water cooled Zircaloy clad uranium oxide (UO_2), effects of internal helium pressurization on, 24:43768
performance of pressurized water cooled, during sustained departure from nucleate boiling operation, (T), 24:11187 (BAW-10014)
performance of pressurized-water reactor type 304 stainless steel-clad uranium oxide (UO_2), effects of nucleate boiling on, 22:30168(R) (WCAP-3710)
performance of PRTR instrumented plutonium oxide (PuO_2)—uranium oxide (UO_2), 24:18706 (CONF-690910-, pp 296-306)
performance of rod bundle, COBRA-II code for thermal hydraulic subchannel analysis of, 24:18779 (BNWL-1229)
performance of rod type, effects of internal fins on, 25:18141
performance of SA-1 rod-type, at high burnups, 25:8951(R) (GEAP-10217)
performance of Saxton Power Reactor Zircaloy 4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2), overpower testing, 24:7021
performance of Shippingport Pressurized-Water Reactor Core 2 Seed 1, weighted residual synthesis calculations for, 23:21421 (WAPD-T-2152)
performance of sintered uranium oxide (UO_2) rod type, equipment and procedures for electrically heated simulation of, (E/T), 25:1968(T) (EURFNR-773)
performance of Sioux Falls Power Reactor superheater, 21:38469(R) (TID-23919)
performance of sodium cooled fast breeder, review of transient survival criteria for, 24:46046 (WARD-4135-6)
performance of sodium-bonded carbide, in fast and thermal fluxes, 23:12396(R) (WARD-3791-27)
performance of sodium-bonded plutonium carbide—uranium carbide, effects of transient conditions on, (E), 22:8807(R) (WCAP-3791-10)
performance of spent Yankee Core I, engineering and metallurgical evaluation of, 21:46870 (WCAP-6084)
performance of spent Yankee Core I, engineering and metallurgical evaluation of, 21:46870 (WCAP-6084)
performance of stainless steel clad mixed oxide, review of, (E/T), 25:15367 (WHAN-SA-51)
performance of stainless steel clad plutonium nitride—uranium nitride, during transient irradiation, (T), 25:28687 (BMI-1898, Sect.A)
performance of stainless steel clad plutonium nitride—uranium nitride, during transient irradiation, (T), 25:44118(R) (BMI-1905)
performance of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), testing of compatibility, 24:7369
performance of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of fuel and cladding compatibility on, (E), 24:13551(R) (GA-9811)
performance of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) fast, thermal and mechanical, (T), 24:38552
performance of stainless steel-clad plutonium dioxide—uranium dioxide, 22:11090 (NUMEC-3432-24)
performance of thermionic, 21:10219 (RFP-658, pp 124-36)
performance of thermionic rod with series-connected diodes, calculations, 24:8369 (LA-4215)
performance of thermionic, using UO_2, 21:2890 (CONF-661003-9)
performance of thorium oxide (ThO_2)—uranium oxide (UO_2), analysis of void migration and cracking, (E/T), 22:47047 (WAPD-TM-794)
performance of thorium—uranium carbide in Peach Bottom Reactor, 21:44833 (GA-8113)
performance of Type 304 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), hybrid computer simulation of, 24:7367
performance of Types 304 and 316 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type fast, (T), 25:48262 (ORNL-TM-3360)
performance of urania, alpha and beta-gamma autoradiographic evaluation of, 21:36914 (GEAP-5100-7)
performance of uranium alloy tube, in gas cooled reactors, 25:54091 (A/CONF.49/P-608)
performance of uranium carbide, in-pile, 21:38432(R) (AI-CE-4)
performance of uranium dioxide, 21:28861 (GEAP-4667)
performance of uranium dioxide rod-type, under molten-center operating conditions, 23:8358
performance of uranium dioxide, meltdown irradiation testing in TREAT, 21:8108
performance of uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), COMETHE II code for thermal and mechanical, (E/T), 24:46134
performance of uranium oxide (UO_2) pellet and vibro-compacted, testing for central melting, 24:33558
performance of uranium oxide (UO_2), effects of transient over-power conditions on, (E), 24:36047(R) (IN-1319)
performance of uranium—plutonium—zirconium alloy, in EBR-II, 21:38487
performance of vanadium alloy clad, in helium cooled fast breeders, 24:50119 (CONF-700401-, pp 854-63)
performance of vibratorily compacted mixed-oxide, in EBR-II, 21:38476
performance of water cooled, effects of coolant loss accident conditions on, 24:33372
performance of Zircaloy clad mixed oxide, in pressurized water reactors, (E/T), 25:48264(R) (WCAP-3385-27)
performance of Zircaloy clad mixed oxide, in pressurized water reactors, (E/T), 25:25987(R) (WCAP-3385-26)
performance of Zircaloy clad mixed oxide, in pressurized water reactors, (E), 25:54101(R) (WCAP-3385-28)
performance of Zircaloy clad plutonium oxide (PuO_2)—uranium oxide (UO_2), in pressurized water reactors, (E/T), 24:52916(R) (WCAP-3385-24)
performance of Zircaloy clad uranium oxide (UO_2), effects of active fuel length on transient overpower, (E) , 25:51087 (IN-ITR-109)
performance of Zircaloy clad uranium oxide (UO_2), high burnup, (E), 24:46124(R) (GEAP-10160)
performance of Zircaloy clad uranium oxide (UO_2), effects in TREAT of power transients on, 24:7190
performance of Zircaloy-2 clad metallic uranium rod type, effects of axial hole on high exposure, (E), 24:47861
performance of Zircaloy-2 clad uranium oxide (UO_2), in-pile, 25:54283 (A/CONF.49/P-315)
performance of Zircaloy-2-clad thorium—uranium—zirconium alloy, in water-cooled reactors, 22:2662 (BNWL-479)
performance of Zircaloy-2-clad uranium dioxide, at high burnup, 22:17186 (GEAP-5100-M)
performance of Zircaloy-2-clad uranium oxide (UO_2), under central fuel melting conditions, 22:50736(R) (GEAP-5661)
performance of Zircaloy-4 and stainless steel clad rods in CVTR, 21:44824 (CVNA-274)
performance of Zircaloy-4 clad mixed oxide, in pressurized water reactors, (E/T), 24:36033(R) (WCAP-3385-23)
performance of Zircaloy-4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2), in pressurized water reactors, (E/T), 24:26777(R) (WCAP-3385-22)
performance of Zircaloy-clad uranium oxide (UO_2), in borated pressurized water in Saxton, 23:6009 (WCAP-3269-43)
performance of zirconium-clad uranium oxide (UO_2) Canadian water-cooled power, 22:42155 (AECL-3068)
performance of, COMETHE 2 computer program for mechanical and thermal, 24:7362
performance of, computer programs for effects of voids on, 23:24039
performance of, in heavy-water moderated, organic-cooled reactors, 21:11300 (ORNL-TM-1705)
performance of, in TREAT meltdown testing, 21:8109
performance of, reliability margin technique for analysis of, (T), 24:47986
performance of, SATURN computer program for mechanical and thermal, 24:7364
performance predictions for mixed oxide, 22:50804 (BNWL-841)
performance requirements for, 25:54310
performance requirements for homogeneous high temperature gas cooled, 24:50112 (CONF-700401-, pp 518-46)
performance studies in Garigliano and Trino of plutonium, 21:35600
performance testing in Capsule Driver Core in SPERT IV, 21:1206(R) (IDO-17206)
performance testing of mixed uranium oxide (UO_2)—plutonium oxide (PuO_2) fast, under transient heating conditions, 25:34373
performance testing of Prototype Fast Reactor, 22:18512
performance testing of urania, 21:38432(R) (AI-CE-4)
performance to moderate burnup at high power output, models for prediction of uranium oxide (UO_2), (E/T), 24:46050
photography of cylindrical, design of slit cameras for, 21:6329 (HW-39535)

physical properties of fast oxide, metallographic determination of, 21:46854(R) (GEAP-5098)
physical properties of oxide fast, radiation effects on, 22: 32735 (ANL-7310, pp 249-375)
physical properties of uranium oxide (UO_2) fast, effects of steady-state irradiation on, (E), 24:13546 (ANL-7571)
physical properties of, measurement in-pile by oscillating techniques, 21:19805 (CONF-660511-, pp 4.10.1-21)
physics analysis of low-enrichment superheater, 21: 30282 (ACNP-67516)
physics calculations for water moderated urania—plutonia rods, 21:35702 (BNWL-CC-1205)
physics calculations of heavy water moderated cluster type, HEROIC computer program for, 24:33241 (EUR-4464)
physics calculations of variable geometries of cylinder shaped, algorithm for, (T), 24:18766 (ZJE-56)
physics calculations on Mk. 4 type, for DR-3, 21:38670 (RISO-M-584)
physics characteristics of EBR-2 Mark-II oxide test, 23: 49581 (ANL-7410, pp 73-227)
physics characteristics of water-moderated seed-blanket reactors using uranium-233—thorium rod-type, 22: 6116
physics evaluation of natural uranium carbide, for HWOCR concept, 21:42724(R) (AI-CE-56)
physics measurements for 100 MW(e) SGHWR plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2), use of JUNO for, (E/T), 23: 7391
physics measurements for Diablo Canyon Power Reactor Unit 1 replacement annular metal pin type, 23:40277 (ORNL-TM-2493)
physics measurements for exponential pile plutonium, approach to critical, 23:4375
physics measurements for high-flux configurations of, 21:23714 (DP-1076)
physics measurements for mixed-fuel-target, computer programs for, 22:33128
physics measurements for optimum design of water-cooled reactor Zircaloy-clad rod-type uranium oxide (UO_2), 23:4251
physics measurements for plutonium—aluminum alloy, (E/T), 25:3902 (BNWL-1514)
physics measurements for uniform cluster arrays of uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:18471
physics measurements for Zircaloy 2 clad uranium oxide (UO_2) CIRENE type, three dimensional heterogeneous analysis of substitution methods for, E/T), 23:47271
physics measurements for, one-group calculations for multi-group effects on, (T), 22:27505
physics measurements for, use of critical assembly environment for neutron flux variation, 23:40494(P)
physics measurements in Ozenji superheating, 22:10067
physics measurements of liquid sodium cooled mixed oxide, 25:6031
physics measurements of multiple-rod enriched-uranium, comparison of effects of water- and boron-moderation on, 23:4374
physics measurements of rod clusters, computer program for, 22:16144(R) (DPST-68-83-1)
physics measurements of single rod, calculation of reactor parameters by, (E/T), 24:24916
physics measurements on single, pulsed neutron method for, (E/T), 22:32976(R) (MIT-2344-12)
physics of thorium oxide—uranium dioxide, in NORA, 21:8047 (TID-23416)
physics parameter measurements in enriched uranium, heavy-water moderated, 21:38717
physics parameter measurements in uranium oxide (UO_2) , comparison of metal and oxide foils for, (E), 22: 32976(R) (MIT-2344-12)
pin segmenting spacers for FFTF, thermal contact coefficients for, 21:40541(R) (BNWL-492)
plate fuel and support members for, fabrication using electron beam welding, 22:8290(P)
plate materials for AARR, development of, 21:40669 (ANL-7290, pp 27-119)
plate subassemblies for AARR, brazing methods for, 21: 40669 (ANL-7290, pp 27-119)
plugging device for cylinder shaped, description of rotation actuated sealed edge, 24:20650(P)
plugs for fast rod type, description of porous end, 25: 37026(P)
plutonium content and distribution in, statistical analysis of gamma scanning data on, 25:48797 (CONF-710617-34)
plutonium distribution in, resolution of alpha autoradiography with platinum film insert for determining, 22:44942
plutonium formation in, effects on reactivity of heterogeneous thermal reactors of, (T), 22:50848
plutonium migration in mixed oxide, effects on power rating and Doppler broadening of, (T), 25:41424
plutonium oxide (PuO_2) uniformity in plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, (E/T), 25: 18140 (WHAN-SA-7)
plutonium recovery from spent, removal of plutonium hexafluoride from exhaust in, 21:30493 (CONF-660904-Vol.1 and 2, pp 741-61)
plutonium-239 content in stored, for large zero-energy reactor, gamma spectrometric equipment and method for measuring, 25:21296
plutonium-239 distribution in irradiated uranium oxide (UO_2), metallographic determination of, 23:6046
pore deformation and diffusion in ceramic, effects of local thermal stresses on, 24:12466
pore migration in ceramic, in thermal gradients, 22: 38631
porosity of irradiated mixed oxide, measurement of spatial distribution of intergranular, 25:32804
position in core, description of time-dependent transport computer code for calculating fission ratios as function of, 23:4410
positioning device for support plug in, design of, 24: 7560(P)
positioning device for, description of vertical in-core, 24: 20645(P)
positioning device for, design of, 22:1905(P)
positioning device for, design of electrical, 22:10094(P)
positioning in cooling channel of herringbone finned plate type, lug and groove method for, 23:37791(P)
powder spheroidization processes of, design of induction-coupled plasma jets for studying, 21:13142 (INR-738/XVIII/PP)
power densities in Peach Bottom Unit 1 replacement, 23:21416(R) (GA-9237)
power density in boiling water, use of twisted-tape configuration for increase of, 22:25001
power density increase in boiling water, use of twisted tapes for, 22:12045
power density limitations for Rover Reactors graphite matrix uranium carbide (UC_2) bead type, 23:31209 (LA-DC-10116)
power density of boiling water cooled vapor transport pin type, maximum, (T), 25:44122 (N-71-17463)
power density of plate type, autoradiography techniques for, 25:8121 (Y-DR-29)
power density of pressurized water, description of core arrangement for optimum, 24:24846(P)
power depression in, computer analysis of thermal flux-filter effects on, 21:5615 (GEAP-4973)
power distribution calculations in TSR-II plates at 1 MW, 21:35723 (ORNL-TM-1821)
power distribution in assemblies of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, effects of configuration on, (E/T), 24:26776 (RT/FI-(69)49)
power distribution in assemblies of, geometrical buckling correction to measured, 24:22490
power distribution in ATR 7F, 23:33085 (IN-1228, pp 114-48)
power distribution in BWR-type, measurement of local, (E/T), 22:44839 (UNC-5195)
power distribution in cylindrical uranium oxide (UO_2), method of fission product analysis for, (E), 22:37621
power distribution in rod cluster, effects on critical heat flux of radial, (E/T), 24:33291
power distribution in water moderated pin type plutonium oxide (PuO_2)-enriched uranium oxide (UO_2), analysis of radial, (E/T), 24:36004 (RT/FI-(69)50)
power distribution measurements in plutonia—urania lattices, 21:38672 (WCAP-3726-1)
power distributions in cluster, Monte Carlo method for calculation of axial, 22:22872
power distributions in Phoenix, measurement in PRCF of, 22:14251(R) (BNWL-534)
power distributions in TRIGA, during power excursions, (E/T), 24:13607
power distributions in water cooled rod type uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), (E/T), 24:43857(R) (BNWL-1442)
power generated in HWOCR, use of Monte Carlo codes for calculating, 23:15730 (ANS-RPD-1, Paper 3A)
power generation profiles for plutonium- and uranium-enriched, by γ scanning, 23:35007
power gradient in mixed oxide fast, determination of optimum, (T), 24:38554
power levels for improved, evaluation of maximum safe operating, 23:9640 (IN-1267)
power levels in uranium oxide (UO_2) WWER-type, method for calculation of at-power, 25:12798 (IAE-1942)
power of steam cooled fast power reactor highly enriched rod type, (E/T), 24:4063
power optimum in 1000 MW(e) steam-cooled fast reactor, systems analysis for, 22:5924 (EURFNR-405)
power output for irradiated plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:26075 (GEAP-13603)
power output of irradiated, equipment for measuring, 23: 16005 (CEA-CONF-1121)
power ratio for, calculational methods for obtaining maximum-to-average, 23:9132
power stability testing for Big Rock Point Power Reactor, 21:40554(R) (GEAP-5507)
power transients in sodium cooled Type 340 stainless steel clad uranium oxide (UO_2) pellet type, (E), 24: 7176
preparation and delivery of, insurance problems in, 21: 28187
preparation and properties of compacted urania, formed by induction heating, 21:26886(P)
preparation and properties of fast, 21:10162
preparation and properties of fibrous fissiochemical, 21: 10369(R) (AGN-8196(Vol.1))
preparation and properties of fibrous, for use in fissiochemical loop, 21:10368(R) (AGN-8178)
preparation and properties of plutonium dioxide—uranium dioxide, 21:19750
preparation and testing molybdenum—uranium dioxide thermionic, 22:23730 (DLR-MITT-66-07, pp 69-72)
preparation and transport in U.K.A.E.A, 22:47046 (TRG-Report-1694)
preparation by electroforming in baths, description of method for, 25:19269(P)
preparation by incorporating fuel particles and binder in refractory container and pyrolyzing, 24:44764(P)
preparation for advanced converter reactors, economics of, 21:46863 (ORNL-4145, pp 275-81)
preparation of actinide sols for use as, by electrodialysis, 21:3539(P)
preparation of beryllia-matrix thoria—urania, 21: 27667(R) (GA-5808)
preparation of boron-poisoned urania, 21:14042(R) (EUR-3125.e)
preparation of ceramic uranium, 21:41638
preparation of ceramic, for use in gas-cooled reactor, 22: 12509(P)
preparation of ceramic, vibration compaction method for, 24:14878(P)
preparation of controlled-density uranium dioxide pellets for, 23:41708
preparation of dispersion plate-type, with densified fuel particles, 25:49387(P)
preparation of dispersion plate-type, with low density fuel particles, 25:49388(P)
preparation of dispersion-hardened uranium, 21:8177(P)
preparation of dispersion-strengthened uranium base, 22: 11032
preparation of dispersion-type uranium nitride—aluminum nitride, 21:46992(P)
preparation of dispersion-type, using aluminum—uranium aluminide, 23:36048
preparation of fission product-retaining, method for, 24: 14918(P)
preparation of graphite-clad, method for, 22:18614(P)
preparation of high-density actinide carbide, powder packing method for, 23:51104(P)
preparation of impermeable uranium—carbon dispersion, 22:23884(P)
preparation of irradiated specimens for metallography, 21:10218 (RFP-658, pp 43-9)
preparation of laminated sheet, with uniform grain size and predetermined fuel dispersion, 23:20496(P)
preparation of molybdenum—uranium tube, 21:35785(P)
preparation of pellet-type, from densified sol-gel microspheres of plutonium dioxide—uranium dioxide, 24:36951 (ORNL-4520, pp 3-56)
preparation of pelleted plutonium—uranium oxide, clad with Hastelloy x or stainless steel, 22:725 (BMI-1809, Sect.E)
preparation of plutonia—urania, health physics problems during, 21:46971
preparation of plutonium dioxide—uranium dioxide pin-type, for radiation testing in EBR-II, 24:44760 (ORNL-4560, pp 3-38)
preparation of pyrolytic-carbon-coated, deposition methods for, 21:22927 (ORNL-TM-1772)
preparation of thin films from irradiated cracked uranium dioxide, for transmission electron microscopy, 25:6894
preparation of tungsten-doped uranium carbide, for irradiation swelling tests, 22:45755 (NAA-SR-12629)
preparation of uranium dispersed-in-graphite type, process for, 21:46995(P)
preparation of uranium-base alloy, method for, 25: 27195(P)
preparation of zirconium-clad uranium—zirconium, by low temperature rolling or extruding, 22:23746(P)
preparation of, from uranium and plutonium carbides and nitrides, 21:6870(P)
preparation with separate zones of blanket and fuel material, vibratory compaction method for, 24: 42078(P)
pressure and temperature variations in involute plate-type, mathematical analysis of effects of, 24:31630 (ANL-7555)
pressure buildup in Halden, in-pile measurements of internal, 23:45024 (HPR-110)
pressure buildup in, analytical expression for determining internal, 22:33095 (KFK-700(Pt. V))
pressure buildup in, analytical expression for determining internal, 22:53273(T) (EURFNR-472)
pressure buildup of, design and performance of miniaturized ADIT pressure gage for measuring, 22: 30906
pressure collapse for ERR, testing of, 21:7852 (ACNP-64509)
pressure drop in Freon-12 cooled 7 rod cluster assemblies of, effects of rod pitch on, 24:24832 (AEEW-R-655)
pressure drop in internally gas cooled annular, 25:5979 (DP-Report-435)
pressure drop in liquid sodium cooled pin type bundle, effects of configuration on, 24:52919
pressure drop with parallel upflow of water in bundles of, (E), 25:12787
pressure equalization system for gas cooled fast breeder, 25:6019
pressure equalization system for gas cooled fast, design and performance of, (E), 25:51100
pressure loading on ATR, 23:33084 (IN-1228, pp 74-110)
pressure loss tests of rod clusters, 21:1514 (TRG-Report-29)
pressure losses from gas-cooled graphite moderated power, analysis of, 22:1767 (JUL-486-RB)
pressure relief valve for, design parameters of porous disk with liquid seal, 24:50245 (KFK-1163)
pressure tube assembly for, description of graphite moderated coolant channel, 22:18642(P)
pressure tubes for CANDU-type, description of ultrasonic-controlled electrochemical finish machining system for, 23:21479 (AECL-3252)
processing and storage of irradiated HTGR, 21:43016 (GAMD-6360)
processing at Eurochemic, 21:40981
processing at La Hague, France, description of facilities for, 23:24356
processing by combined solvent-extraction and fluoride-volatility processes, 21:45231(P)
processing by dissolution of magnesium can in mercury, 21:39021(P)
processing by distillation, vapor pressures of molten fluoride mixtures in, 21:21918 (ORNL-4076, pp 1-54)
processing by fast extraction, 21:32232
processing clad ceramic, pyrochemical methods development, 21:21755(R) (ANL-7302)
processing for plutionium separation, equipment and facility for, 23:11707
processing for recovery of enriched uranium from, by fluoride volatility method, 21:6111
processing HTGCR, head-end facility design for, 21:144 (GA-7107)
processing in Argonne Fuel Cycle Facility, vertical assembly and disassembly machine installation for, 21: 40536 (ANL-7349, pp 2-91)
processing in Euratom, 21:14128(R) (NP-16468(Vol.1))

processing irradiated aluminum-clad, pilot plant performance using fluoride volatility, 22:40292 (ORNL-4251)
processing irradiated pyrolytic carbon-coated sol-gel thoria—urania, hot cell evaluation of grind-leach method for, 21:28055 (ORNL-TM-1880)
processing of aluminum- and zirconium-based, 21:5991(R) (IDO-14680)
processing of aluminum-containing, non-aqueous fluoride method for, 21:3161(P)
processing of breeder, review of high-temperature methods for, 21:40969
processing of breeder, salt-transport method for, 21:40969
processing of dioxide, by fluoride volatility method, 21:30498(R) (EURAEC-1832)
processing of graphite, comparison of electrolytic, grind—leach, and mixed—acid oxidation methods for, 21:12497 (IN-1018)
processing of graphite, modified burn-leach method for, 21:5991(R) (IDO-14680)
processing of graphite-base, 21:45199 (ORNL-4145, pp 29-57)
processing of graphite-base, burn-leach and grind-leach methods for, 21:45199 (ORNL-4145, pp 29-57)
processing of irradiated, 21:38609
processing of irradiated by Hanford salt cycle, 21:30499 (HW-SA-3622)
processing of irradiated HFIR, for transplutonium elements, 21:1421(R) (ORNL-3965)
processing of irradiated MTR, pyrometallurgical method for, 23:36067 (EUR-4243)
processing of irradiated oxide, Karlsruhe plant for, 21:45214(T) (ORNL-tr-1768)
processing of irradiated plutonium, laboratory and equipment design for, 21:26033
processing of irradiated, at Nuclear Fuel Services, Inc. Plant, West Valley, New York, construction cost information for, 21:24092 (SRO-122)
processing of irradiated, automatic potentiometric process monitor for nitrite detection in, 21:17601
processing of irradiated, by ion exchange, precipitation, or solvent extraction, 21:14304
processing of irradiated, commercial, 21:40952 (CONF-670542-, Paper 7)
processing of irradiated, design and operation of Eurex plant for, 22:27962
processing of irradiated, design of acid dissolver basket for, 21:40988(P)
processing of irradiated, design of ARMOR hot-cell assembly for, 21:36324 (CEA-R-3171)
processing of irradiated, development of Aquafluor method for, 21:40947 (CONF-670542-, Paper 2)
processing of irradiated, development of fluoride volatility process for, 21:43015(R) (EURAEC-1909)
processing of irradiated, economics and progress in Swedish, 21:19749
processing of irradiated, economics of installations using aqueous methods for, 21:28069
processing of irradiated, engineering and maintenance problems in molten-salt fluoride-volatility method for, 21:4593 (ORNL-P-2409)
processing of irradiated, evaluation of chloride fluorides for use in, 21:36080(R) (EURAEC-1868)
processing of irradiated, evaluation of methods for, 21:30501(R) (K-1717)
processing of irradiated, facility for, 21:30523
processing of irradiated, fixation in glass of waste oxides remaining after removal of uranium and plutonium in, 21:12515(P)
processing of irradiated, flowsheet for Eurochemic extraction-evaporation pilot plant for, 21:17706 (NP-16598)
processing of irradiated, for recovery of uranium, plutonium, and fission products, chloride-volatility process for, 21:15992(P)
processing of irradiated, hydrodynamic studies of Purex process for, 21:43024 (UJV-1665)
processing of irradiated, operation of Eurochemic plant for, 21:17554(R) (NP-16579)
processing of irradiated, purification and recovery of solvents used in, 21:12520(P)
processing of irradiated, pyrochemical, 21:36073(R) (ANL-7350)
processing of irradiated, research progress on, 21:5991(R) (IDO-14680)
processing of irradiated, research progress on, 21:45198(R) (ORNL-4145)
processing of irradiated, review of European industry for, 21:10434
processing of irradiated, salt-cycle method for pyrochemical, 21:14283 (BNWL-355)
processing of irradiated, separation of neptunium in, 22:16649(T) (ORNL-tr-1847)
processing of irradiated, separation of strontium from other fission products in, 21:40989(P)
processing of magnesium-clad, vacuum sublimation process for decladding in, 21:39022(P)
processing of oxide, fluoride-volatility, 21:36073(R) (ANL-7350)
processing of plutonium dioxide—uranium dioxide, engineering developments in Salt Cycle process plant for, 21:10413 (HW-SA-3527)
processing of plutonium, bibliography on, 21:5986 (BNWL-113-22)
processing of plutonium, safety aspects in designing fluidized-bed volatility pilot plant for, 21:10420 (ORNL-TM-1593)
processing of plutonium, thorium, and uranium carbide, equipment and method for, 21:22080(P)
processing of power-reactor, design study for on-site, 21:23611 (ORNL-3959)
processing of spent power, shear-leach, 21:1427 (ORNL-3995, pp 21)
processing of spent Yankee, maximum temperatures in shear-leach, 21:1420 (ORNL-3948)
processing of spent, by pyrochemical processes, 21:14310
processing of spent, by volatility processes, 21:14310
processing of spent, estimation of annual rates of, 21:32221 (BNWL-389)
processing of spent, for power reactors, 21:17555(R) (ORNL-3911)
processing of spent, from light-water-moderated reactors, economics of, 21:17498
processing of spent, methods and costs of transport for, 21:32221 (BNWL-389)
processing of spent, methods for solidification of high-level radioactive wastes from, 23:2541 (BNWL-820)
processing of spent, problems and economics of Eurochemic, 21:4597
processing of spent, safety aspects in design of WAK facility for, 21:30520
processing of spent, using molten salt bath containing ammonium nitrate, 21:45232(P)
processing of stainless steel-clad, 21:36080(R) (EURAEC-1868)
processing of thorium—uranium, economics and facility development for, 21:22014(R) (RT/ING-(66)18)
processing of twisted-tape components, 21:38585
processing of Zircaloy-2-clad uranium dioxide, 21:25936 (ISO-595)
processing of Zircaloy-clad low-enrichment, 21:10416(R) (K-1691)
processing of zirconium alloy, corrosion of Monel 400 and stainless steel by acids in, 22:19475 (IN-1134)
processing of zirconium, effects of boric acid on hydrogen formation in, 21:5991(R) (IDO-14680)
processing of, apparatus for decanning in, 21:39027(P)
processing of, at Karlsruhe, 21:12210
processing of, commercial plant for, 21:15978
processing of, computer program for flowsheet calculation and data reduction in, 21:3142 (ANL-7197)
processing of, conference on, Augusta, Georgia, May 11 and 12, 1967, 21:40945 (CONF-670542)
processing of, conversion of Redox plant for, 21:39001 (RL-SEP-595)
processing of, corrosion-resistant properties of tungsten crucibles for use in pyrochemical, 21:19732
processing of, criticality calculations for, 21:32225 (EURAEC-1858)
processing of, decanner modification for use in, 21:25935(R) (ANL-7225)
processing of, decontamination of facility for, 21:43436
processing of, design and equipment of Karlsruhe plant for, 21:32231
processing of, design and experience of plant in United Kingdom for, 21:32233
processing of, design and experiments with pilot mixer-settlers for, 21:32235
processing of, development of fluoride volatility process for, 21:40958(R) (K-L-1780(Pt.20))
processing of, development of fluoride-volatility method for, 21:45200 (ORNL-4145, pp 58-94)
processing of, development of mechanical methods for, 21:45199 (ORNL-4145, pp 29-57)
processing of, diffusion of organic iodine-131 compounds in gaseous effluent at Hanford during, 21:32101
processing of, disposal of krypton-85 from off-gas stream in, 22:2335
processing of, economic aspects of, 21:40946 (CONF-670542-, Paper 1)
processing of, economics, 21:46863 (ORNL-4145, pp 275-81)
processing of, economics and evaluation of methods for, 21:4592 (ANL-7125, pp 107-18)
processing of, economics of closed-cycle, 21:43019 (KFK-565)
processing of, Eurochemic plant for, 21:45208 (ORNL-4145, pp 289-91)
processing of, fluidized-bed process for removal of stainless steel cans in, 21:39026(P)
processing of, for 1000 MW(e) fast breeder reactors, 21:5596 (ANL-7001)
processing of, for power plants, economics of, 21:12504
processing of, history of, 21:40949 (CONF-670542-, Paper 4)
processing of, method for dissolution of aluminum cans in, 21:39025(P)
processing of, NFS facilities and techniques for, 21:40953 (CONF-670542-, Paper 8)
processing of, nuclear materials management in, 21:38736 (HW-81725)
processing of, nuclear safety evaluation of plutonium reclamation facility for, 21:40956 (HW-78880)
processing of, optimization of plant size for, 21:46863 (ORNL-4145, pp 275-81)
processing of, plants for and economics of, 21:14308
processing of, plutonium scrap recovery in, 21:43023 (RL-SEP-147)
processing of, production of transuranium elements as by-products in, 21:40880 (CONF-670542-, Paper 10)
processing of, production of transuranium elements as by-products in, 21:42962 (CONF-670542-1)
processing of, Quarterly Technical Progress Reviews, Fall, 1966, 21:14307
processing of, recovery of strontium during, 21:43041(P)
processing of, review of nonaqueous, 21:45216
processing of, review of UKAEA, 21:42867
processing of, safeguards procedures for plant for, 21:40962 (TID-23991(Vol.1))
processing of, safeguards procedures for plant for, 21:45213 (WASH-1076, pp 59-64)
processing of, safeguards procedures for plant for, 21:40963 (TID-23991(Vol.2))
processing of, safeguards procedures for plant for, 21:40964 (TID-23991(Vol.3))
processing of, Savannah River Plant operations for, 21:40951 (CONF-670542-, Paper 6)
processing of, second-generation plants for, 21:25959
processing of, technical progress review on, 22:1816
processing of, testing of cutting tool for use in, 21:32234
processing of, use of in-line alpha counters for determining plutonium in solutions from, 22:7 (CONF-671012-2)
processing of, use of TBP solvent extraction in, 21:45199 (ORNL-4145, pp 29-57)
processing plant for irradiated, criticality control in, 23:16070
processing plants for, optimum sizes and siting of, 22:10429 (CEA-R-3364)
processing spent Fermi Fast Breeder, 21:30095(R) (APDA-CFE-4)
processing spent Zircaloy-2 clad, safety of, 22:283 (ORNL-4061)
processing techniques for HWOCR, 21:23587(R) (AI-CE-31)
procurement of military, status of, 24:2922 (ORNL-4470, pp 181)
production and processing of carbide, design of induction furnace for, 21:3160(P)
production by precision extrusion of uranium, feasibility of and techniques for, 22:12987(R) (RMI-9)
production for PRTR, inspection and quality control of, 21:19459 (BNWL-349)
production from mixed enriched uranium and plutonium powders, by vibratory compaction, 22:10075(R) (EURAEC-1929)
production in CNEN and Italian industry, 25:45016
production in France by C.E.R.C.A, 24:51197
production in France by S.I.C.N. Company, 24:51198
production method for ceramic, 22:19619(P)
production of aluminum-clad uranium monocarbide, economic analysis of plant for, 24:9569
production of ceramic, for French fast breeder reactors, 24:12458
production of compacted coated-particulate, method for, 25:49522(P)
production of Dragon, equipment and flowsheets for, 24:44752 (DP-Report-152)
production of EURATOM, manufacturers and industry for, 23:21567
production of fine-grained, uranium-alloy, 23:22501(P)
production of graphite-thorium carbide, for thermal breeder reactor, 22:6975(P)
production of high-density graphite—thorium carbide, 22:36448(P)
production of hyperstoichiometric HWOCR uranium carbide, 21:38432(R) (AI-CE-4)
production of laminated, oxide, and uranium—graphite, in France, 22:2589(T) (WAPD-Trans-75)
production of matrix-type, for fission product retention, 22:28771(P)
production of metal-coated, containing ceramic fissile particles, 24:8173(P)
production of microspheres of, device for, 21:34522 (ORNL-4091, pp 102-35)
production of particle-filled clad rod-type, method for, 24:23512(P)
production of plutonium in uranium, conversion ratios for, 21:25712(R) (BAW-3647-3)
production of sheathed, by hydrostatic pressure, 22:23881(P)
production of sintered uranium dioxide, incorporating borides, 22:36532(P)
production of stable glass type, using phosphorus oxide—uranium oxide—zinc oxide, 23:3134
production of urania, methods for, 21:27836
production of uranium, for heavy-water reactors, 23:41713
production of Westinghouse-type PWR, in France, 24:51197
production of Zircaloy-clad uranium dioxide, economic analysis of plant for, 24:9569
production of, cost model for, 22:19669 (BNWL-624, pp 2.1-32)
production of, development of vacuum furnaces and equipment for, 23:17669
production of, in France, 21:30341(T) (AEC-tr-6853)
production of, nuclear materials management in, 21:38736 (HW-81725)
production of, quality control methods for, 25:32776(R) (WARD-4135-13)
production of, review of UKAEA, 21:42867
production process for spherical, with mixed oxide fuel in beryllium oxide matrix, 25:54303(P)
profile measurements of irradiated, electro-optical system for, 25:51933 (LA-DC-12378)
properties of boiling and pressurized-water reactor, evaluation of mechanical and physical, 22:35461 (GEMP-482)
properties of hot-pressed beryllia—urania, mechanical and thermal, 21:14111(R) (GA-7062)
properties of irradiated plutonium, equipment for study of, 22:4377
properties of mini-type aluminum—uranium oxide, in-pile testing of, 23:48504 (ORNL-4420, pp 222-40)
properties of oxycarbide, from reduction of plutonia—urania, 21:32986
properties of pebble bed, nondestructive determination of mechanical and nuclear, 23:38209 (EUR-4237)
properties of plutonium oxide (PuO_2)—uranium oxide (UO_2), radiation effects on burnup, microstructure, and mechanical, in-pile, (E), 25:10213(R) (WCAP-3385-25)
properties of pyrolytic-carbon-coated, for power reactors, 21:22927 (ORNL-TM-1772)
properties of uranium-base, for use in fast burst reactors, 24:11238 (CONF-690102-, pp 161-70)
properties of uranium-base, incorporating small quantities of chromium, molybdenum, silicon, tin, and ytterbium, 24:14688(P)
properties of, engineering, physical, and thermodynamic, 23:48396
quality control of uranium carbide and uranium carbide—zirconium carbide, 25:18610 (DP-Report-580)
quality of extruded, effects of quenching on, 24:21345(R) (RMI-14)

radial-flow liquid metal-cooled fast breeder reactor, description of conical annular, 22:35488(P)
radiation and thermal effects on dimensions of, under in-pile cyclic conditions, 24:21446 (WAPD-TM-940)
radiation damage in fast gas-cooled reactors, 22:26093 (ORNL-4229, pp 125-41)
radiation damage to urania-plutonia and thoria-plutonia, 21:31893 (AECL-2674)
radiation dose rate from uranium, determination of, 21:10863 (HW-59706)
radiation dose rates from reprocessed breeder, 22:10322 (KFK-603)
radiation dose rates from spent, computer program for calculating, 22:40356
radiation doses from burnt-out DIDO, measurements of, 23:21728 (JUL-560-PC)
radiation effects at 17000 MWd/t on pin-type, in bismuth—lead filled Zircaloy-2 capsules, 22:28861
radiation effects at 250°C on mechanical properties of uranium-base alloy, neutron, 23:30100
radiation effects at 5,000 MWd/t, in-pile, 23:10302
radiation effects at 6500 MWd/t on hollow uranium, neutron, 22:17153
radiation effects at high temperatures on T-111 clad uranium nitride (UN) pin type, fast neutron, 24:33320
radiation effects at high temperatures on uranium dioxide, 22:41130 (CONF-670967-1)
radiation effects in plutonia—urania, in PRTR, 21:22934 (BNWL-366)
radiation effects in Saxton Power Reactor Core 2 Zircaloy 4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2), neutron, 24:3998(R) (WCAP-3385-20)
radiation effects in swelling of uranium nitride, comparison with uranium carbide of, 24:31076
radiation effects on, 22:734
radiation effects on 1000 MW(e) gas-cooled fast breeder reactor Hastelloy X-clad uranium oxide (UO_2) pellet-type, thermal neutron, 23:7389(R) (GA-7645)
radiation effects on advanced assembly of, 21:44861(R) (WCAP-3269-20)
radiation effects on advanced ceramic, 22:30118 (ANL-7438)
radiation effects on advanced, test summary on, 21:7901(R) (WCAP-3269-17)
radiation effects on AEC fuel cycle assembly SA-1 at burnup of 27,200 MWd/t, neutronic and radiochemical data on, 22:49712(R) (GEAP-5624)
radiation effects on aluminum-clad aluminum—uranium oxide dispersion-type, in-pile, 25:49579 (ORNL-TM-3416, pp 218-22)
radiation effects on aluminum-clad aluminum—uranium, in-pile, 25:49579 (ORNL-TM-3416, pp 218-22)
radiation effects on assemblies of Zircaloy 2-clad uranium oxide (UO_2) rod-type, in HBWR of IFA-10, 22:46898 (HPR-101)
radiation effects on Assembly D-50, at 5975 MWd/t, 23:46148(R) (GEAP-10042)
radiation effects on austenitic steel clad uranium oxide (UO_2)—plutonium oxide (PuO_2), fast neutron, 25:54092 (A/CONF.49/P-609)
radiation effects on austenitic steel cladding for, fast neutron, 24:10119 (KFK-985, pp 183-206)
radiation effects on axial expansion in GETR plutonium oxide (PuO_2)—uranium oxide (UO_2), fast neutron, 23:37625
radiation effects on axially restrained pelleted, analysis of, 22:6144
radiation effects on BISO and TRISO coated ceramic particle graphite matrix HTGR type, fast neutron, 24:29012 (GA-10012)
radiation effects on BISO-coated thorium carbide (ThC_2)—uranium carbide (UO_2), analysis of fast neutron, 23:4170(R) (GA-8270)
radiation effects on BISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2), analysis of fast neutron, 23:4169(R) (GA-8038)
radiation effects on BISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle-type, analysis of fast neutron, 23:9118(R) (GA-7634)
radiation effects on boron distribution in, 21:10214(R) (EURAEC-1754)
radiation effects on boron-impregnated aluminum-clad, 24:17392 (IN-1335, pp 25-82)
radiation effects on boron-poisoned enriched uranium dioxide, data summary on in-pile, 23:35983 (RCN-97(Vol.3)(Pt.2))
radiation effects on burnable poison-containing uranium dioxide, at 1000 to 5000 MWd/t burnup, 23:8348
radiation effects on burnable poison-incorporating uranium oxide, in-pile, 24:37000 (ORNL-4520, pp 265-94)
radiation effects on burnup behavior of Type 316 stainless steel-clad SNR-type, in-pile, 25:47183
radiation effects on burst strength of stainless steel-clad plutonium dioxide—uranium dioxide pin-type, at 8000 MWd/Mtm, 24:30048 (BNWL-1323)
radiation effects on carbide, summary of, 22:12006(R) (ANL-7399)
radiation effects on carbide, x-ray analysis of, 22:17188
radiation effects on central melting in Zircaloy-2 clad uranium oxide (UO_2), neutron, 22:16281 (GEAP-5100-K)
radiation effects on ceramic coated particle type, measurement of fast neutron, 23:37519
radiation effects on cermet plate- and rod-type, in-pile, 23:8359
radiation effects on chemical properties of, fast-neutron, 21:36073(R) (ANL-7350)
radiation effects on clad alloy and ceramic, 21:21755(R) (ANL-7302)
radiation effects on clad ceramic, in-pile, 21:1962 (WAPD-TM-574)
radiation effects on clad ceramic, in-pile, 22:49817(R) (EURAEC-2036)
radiation effects on clad ceramic, in-reactor, 21:9248 (CEA-R-3066)
radiation effects on clad compacted ceramic, at high burnups and temperatures, 23:46146 (BNWL-SA-2412)
radiation effects on clad mixed oxide pin-type, during overpower transients in TREAT, in-pile, 25:40131 (HEDL-SA-84)
radiation effects on clad pin-type, in-pile, 24:12483 (BNWL-1223, pp 3.1-68)
radiation effects on clad plutonia—urania, relations with fabrication, 21:1956 (CONF-660606-53)
radiation effects on clad plutonium carbide—uranium carbide, at 19,000 to 32,000 MWd/t, 22:4911
radiation effects on clad plutonium carbide—uranium carbide, in-pile, 22:4912
radiation effects on clad plutonium carbide—uranium carbide pin-type, in-pile, 23:10299
radiation effects on clad plutonium carbide—uranium carbide, fast and thermal neutron, 22:36509 (CONF-671005-7)
radiation effects on clad plutonium dioxide—uranium dioxide, in-pile, 24:2983 (ORNL-4470, pp 148-59)
radiation effects on clad plutonium dioxide—uranium dioxide rod-type, at 60,000 MWd/t, 23:10298(R) (NUMEC-3432-41)
radiation effects on clad plutonium dioxide—uranium dioxide pin-type, fast and thermal neutron, 23:41759
radiation effects on clad plutonium nitride—uranium nitride, in-pile, 24:6290
radiation effects on clad urania, 21:14042(R) (EUR-3125.e)
radiation effects on clad urania, summary of VBWR in-reactor tests on, 21:7874(R) (GEAP-3898)
radiation effects on clad uranium alloy, in-pile, 23:48496 (EIR-151)
radiation effects on clad uranium dioxide, at 16,850 MWD/t, in-pile, 23:48572 (GEAP-4926)
radiation effects on clad uranium dioxide, at 27,000 MWd/t, 22:41131(R) (GEAP-5598)
radiation effects on clad uranium dioxide, at 7000 MWd/tU, 22:49857 (GEAP-5626)
radiation effects on clad uranium dioxide, in-pile, 23:48573(R) (GEAP-5702)
radiation effects on clad uranium dioxide, in-pile, 23:51146(R) (RISO-199)
radiation effects on clad uranium dioxide, in-pile, 22:52127(R) (RISO-179)
radiation effects on clad uranium dioxide, in-reactor, 21:5015 (GEAP-5100-I)
radiation effects on clad uranium dioxide-zirconium oxide, at high temperatures, 23:8343 (WAPD-TM-630)
radiation effects on clad uranium, in-pile, 25:11457 (CISE-R-278)
radiation effects on clad, at high temperatures, 21:30203
radiation effects on clad-metal fuel, 22:7788(R) (ANL-7382)
radiation effects on clad-rod, 21:17536(R) (EURAEC-1742)
radiation effects on cladding for, 21:503 (KFK-396)
radiation effects on cladding for fast neutron liquid, 23:1008 (BMI-1845, Sect. B)
radiation effects on cladding for, neutron, 22:52126 (BNL-50127)
radiation effects on cladding materials for, in-pile, 24:4816 (EURFNR-698)
radiation effects on cladding materials for, in-pile, 22:711 (BMI-1809, Sect.B)
radiation effects on cladding—fuel reactions in plutonium dioxide—uranium dioxide, at 4000 to 16,000 MWd/t, 24:10207
radiation effects on creep of clad uranium dioxide, at 1200°C, 24:10202
radiation effects on defected clad uranium dioxide, in-pile, 23:46149 (WAPD-TM-628)
radiation effects on defected clad, in-pile, 21:7901(R) (WCAP-3269-17)
radiation effects on diameter increase of stainless steel-clad mixed oxide pin-type, comparison of measured and predicted in-pile, 25:40133 (WHAN-SA-74)
radiation effects on dimensional changes in Peach Bottom Power Reactor Unit 1, measurement of fast neutron, 23:33057(R) (GA-9360)
radiation effects on dimensional changes in Zircaloy clad mixed oxide, effects of fuel compaction process on, (E), 24:26835(R) (BNWL-1358)
radiation effects on dimensional changes in, determination by neutron radiography, 24:16805 (CONF-690910-, pp 533-50)
radiation effects on dimensional increases in, neutron, 21:5013 (AECL-2587)
radiation effects on dimensional stability of Magnox-clad uranium-235-enriched, 25:27267 (UJV-2371.R,T.)
radiation effects on dimensional stability of metal, BEMOD computer program for neutron, 24:5527 (ANL-7586)
radiation effects on dimensional stability of stainless steel clad plutonium dioxide—uranium dioxide pin-type, in-pile, 25:47187
radiation effects on dimensional stability of Zircaloy-clad uranium dioxide, profilometer measurements of in-pile, 24:10193 (GEAP-5100-8)
radiation effects on dimensions of clad plutonium dioxide—uranium dioxide, at 33,000 MWd/t burnup, 24:8211(R) (NUMEC-3524-67)
radiation effects on dimensions of SA-1 rod-type, at high burnups, 25:8951(R) (GEAP-10217)
radiation effects on dimensions of, profilometer design for determining, 23:51089(R) (NUMEC-3524-50)
radiation effects on dispersion plates, 21:18203(R) (IDO-17218)
radiation effects on Dragon, data evaluation on in-pile, 24:51230 (DP-Report-385)
radiation effects on Dragon, metallographic examination of in-pile, 25:24663 (DP-Report-583)
radiation effects on EBR-2 stainless steel- and Incoloy 800-clad plutonium carbide (PuC)—uranium carbide (UC) pellet-type, analysis of fast and thermal neutron, 23:13505 (UNC-5225)
radiation effects on EBR-II, 21:23589(R) (ANL-7308)
radiation effects on EBR-II fuel jackets, annealing of neutron, 21:32931(R) (BNWL-CC-883)
radiation effects on EBWR, at 0.61 atomic percent burnup, 21:499 (ANL-6832)
radiation effects on elongation of zirconium—copper alloy clad uranium oxide (UO)$_2$, (E), 25:51082 (CEA-R-4197)
radiation effects on encapsulated mixed oxide, at high temperatures, in-pile, 23:51082(R) (WARD-3791-39)
radiation effects on enriched uranium dioxide, data summary on in-pile, 23:35983 (RCN-97(Vol.3)(Pt.2))
radiation effects on failure of Zircaloy-clad uranium oxide (UO_2) pellet-type, analysis of neutron, 23:9177(R) (HPR-103)
radiation effects on fast breeder reactor at high-burnup, 21:40622
radiation effects on fast breeder, examination techniques for determination of, 22:53273(T) (EURFNR-472)
radiation effects on fast breeder, examination techniques for determination of, 22:32778 (KFK-700(Pt. XII))
radiation effects on fast oxide, metallographic analyses of, 22:32735 (ANL-7310, pp 249-375)
radiation effects on fission gas behavior in, study of mechanisms for in-pile, 25:47186
radiation effects on fission gas release and swelling of unrestrained carbide, in-pile, 25:4889(R) (UNC-5263)
radiation effects on fission product distribution in clad uranium dioxide at high burnup, 23:34024(R) (GEAP-5746)
radiation effects on fission product release in BISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2), analysis of fast neutron, 23:9117(R) (GA-7453)
radiation effects on fission product release in BISO and TRISO coated uranium carbide (UC_2) sphere shaped, measurement of fast neutron, 24:4026(R) (GA-9660)
radiation effects on fission product transport in manifold vented gas cooled plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, fast neutron, 24:26771 (GA-9896)
radiation effects on GAIL-IV, in-pile, 22:8846 (GA-7997)
radiation effects on gas cooled fast breeder reactor plutonium oxide (PuO_2)—uranium oxide (UO_2), fast neutron, 23:45083(R) (GA-9229)
radiation effects on gas release and swelling of uranium mononitride, at 1000°C, 24:36997 (ORNL-4520, pp 195-201)
radiation effects on grain growth and central void formation in Zircaloy-4-clad thorium dioxide—uranium dioxide, in-pile, 24:12488 (WAPD-TM-664)
radiation effects on graphite matrix, finite element analysis of, (T), 24:36031 (EUR-4472)
radiation effects on graphite, in DRAGON, neutron, 21:46963(R) (BNWL-CC-694)
radiation effects on Hastelloy X-clad plutonium oxide (PuO_2)—uranium oxide (UO_2) vented-type, analysis of fast neutron, 23:17188(R) (GA-8107)
radiation effects on HFIR, destructive examination of in-pile, 24:3048 (ORNL-4470, pp 94-111)
radiation effects on high-performance uranium dioxide, 21:30143(R) (GEAP-5487)
radiation effects on HTGR, 24:31446(R) (ORNL-TM-3032)
radiation effects on hyper- and hypo-stoichiometric plutonia—urania, to 70,000 MWd/t burnup, 21:6893 (GEAP-4897)
radiation effects on hyperstoichiometric and hypostoichiometric uranium carbide pin-type, relations of annealing at 1000 to 1800°C with neutron, 24:6215 (AECL-3291)
radiation effects on Incoloy-clad urania, 21:19359(R) (GEAP-5405)
radiation effects on intergranular pore density of plutonium dioxide—uranium dioxide pin-type, in-pile, 25:19290 (WHAN-SA-15)
radiation effects on length change of copper—zirconium alloy clad uranium oxide (UO_2) rod type, in pile, 24:33559
radiation effects on length of Zircaloy-clad thorium dioxide rod-type, in-pile, 24:6288
radiation effects on low-density plutonium dioxide—uranium dioxide, at 1200 MWd/t, 22:41125 (BNWL-SA-1679)
radiation effects on Magnox-clad uranium, relations with crystallographic texture of uranium, 21:9206
radiation effects on Mark-1 and Mark-1A, in-pile, 21:30093(R) (ANL-7317)
radiation effects on mechanical properties of CaO—UO_2—ZrO_2, analysis of neutron, 22:32789(R) (WAPD-MRP-124)
radiation effects on mechanical properties of graphite matrix BISO and TRISO coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle type, fast neutron, 24:33230(R) (GA-10010)
radiation effects on mechanical properties of PBF type 304 stainless steel-clad calcium oxide (CaO_2)—uranium oxide (UO_2)—zirconium oxide (ZrO_2), measurement of neutron, (E/T), 22:35596(R) (IDO-17260)
radiation effects on mechanical properties of Peach Bottom Power Reactor Unit 1, measurement of fast neutron, 24:11202(R) (GA-9797)
radiation effects on mechanical properties of plutonium oxide (PuO_2)—uranium oxide (UO_2), measurement of neutron, 23:45082(R) (GA-8787)
radiation effects on mechanical properties of Saxton Power Reactor Core 2 rod type, measurement of fast neutron, 24:11107(R) (WCAP-3385-21)
radiation effects on mechanical properties of uranium, effects of burnup and irradiation temperature on, 24:29999
radiation effects on mechanical properties of urania, 21:46029(T) (UCRL-Trans-10131)

radiation effects on mechanical properties of vented-type plutonium oxide (PuO_2)—uranium oxide (UO_2), calculation of neutron, 23:17188(R) (GA-8107)
radiation effects on mechanical properties of, neutron, 25:49582
radiation effects on metal-clad uranium sulfide, 21:21755(R) (ANL-7302)
radiation effects on metallic uranium, high temperature thermal neutron, 23:37542
radiation effects on microstructure and swelling of uranium silicide hollow core, at 370 to 570°C, in-pile, 24:14961 (BNWL-1195)
radiation effects on microstructure of uranium dioxide, 24:37004 (RT/MET-(69)3)
radiation effects on mixed carbide, 21:42725(R) (ANL-7357)
radiation effects on mixed nitride pin-type, in-pile, 25:49508 (ORNL-TM-3416, pp 52-74)
radiation effects on mixed oxide (PuO_2—UO_2) vented pin type, analysis of in-pile, 22:6141
radiation effects on nickel-plated aluminum cladding of, in-pile, 23:50989 (ORNL-TM-2642)
radiation effects on niobium—uranium dioxide, in-pile, 22:4831
radiation effects on niobium—zirconium-clad, 21:34928 (AECL-2661)
radiation effects on niobium-clad rod-type cermet, at 1.5 percent uranium burnup, 24:19520 (NP-18151)
radiation effects on nonfuel components of, 22:773
radiation effects on NUMEC Series A plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31166(R) (NUMEC-3524-58)
radiation effects on NUMEC Series B and Series C plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31167(R) (NUMEC-3524-62)
radiation effects on oxide pin-type, development of lead—bismuth capsules for studies of, 24:42295
radiation effects on partial-burnup fast oxide, metallographic analyses of, 22:32735 (ANL-7310, pp 249-375)
radiation effects on Peach Bottom Power Reactor Unit 1 failed graphite matrix thorium carbide (ThC_2)—uranium carbide (UC_2), postirradiation examination of fast neutron, 23:23825 (GAMD-8743)
radiation effects on performance of carbide and oxide, irradiation devices for studying fast neutron, 25:49583
radiation effects on performance of fast, at high temperature, (E/T), 25:28688 (BMI-1898, Sect.B)
radiation effects on performance of manifolded and vented plutonium dioxide—uranium dioxide rod-type, in-pile, 25:47107
radiation effects on performance of plutonia—urania, 21:14869 (BNWL-SA-1079)
radiation effects on performance of plutonium dioxide—uranium dioxide pin-type, clad with Incoloy 800 or Type 316 or 347 stainless steel, fast neutron, 24:30053 (GEAP-13549)
radiation effects on performance of solid pellet uranium dioxide, in-pile, 21:18351 (GEAP-5100-B)
radiation effects on performance of stainless steel-clad mixed oxide, computer code for analysis of in-pile, 25:32847
radiation effects on performance of stainless steel-clad sintered mixed-oxide pin-type, overpower transient in-pile, 25:32851
radiation effects on performance of Type 316 stainless steel clad plutonium dioxide—uranium dioxide in-pile, 25:47182
radiation effects on performance of uranium monocarbide fuel assemblies, in-pile, 25:52471 (A/CONF.49/P-707)
radiation effects on performance of Zircaloy-clad hollow uranium dioxide pellet, in-pile, 25:11530 (AECL-3732)
radiation effects on physical properties of beryllium oxide (BeO)—thorium oxide (ThO_2)—uranium oxide (UO_2), analysis of neutron, 23:13503(R) (GA-6532)
radiation effects on physical properties of bonded bed pyrolytic carbon coated uranium oxide (UO_2) and uranium carbide (UC_2) particle type, measurement of fast neutron, 23:28487 (ORNL-4353, pp 1-109)
radiation effects on physical properties of metal-clad helium-bonded plutonium carbide (PuC)—uranium carbide (UC) pellet-type, analysis of fast neutron, 22:39789 (UNC-5198)
radiation effects on physical properties of metal-clad plutonium carbide (PuC)—uranium carbide (UC) pellet-type, analysis of fast neutron, 22:39790(R) (UNC-5201)
radiation effects on physical properties of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, measurement of fast neutron, 23:28488 (ORNL-4353, pp 111-39)
radiation effects on physical properties of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, fast neutron, 24:24836 (ORNL-4508, pp 71-112)
radiation effects on physical properties of Saxton Power Reactor Type 304 stainless steel-clad 97- and 78-percent density uranium oxide (UO_2), analysis of neutron, 22:39793 (WCAP-3269-64)
radiation effects on pin-type urania, in-pile, 21:34076(R) (ANL-7342)
radiation effects on pin-type, safety analysis of effects of flowing sodium and, 22:32735 (ANL-7310, pp 249-375)
radiation effects on plates for, 21:40580(R) (WAPD-MRP-121)
radiation effects on plutonia—urania, in-pile, 21:46868(R) (WCAP-3385-12)
radiation effects on plutonium, 22:6124
radiation effects on plutonium carbide (PuC)—uranium carbide (UC) rod type, measurement of fast neutron, 24:18725(R) (UNC-5238)
radiation effects on plutonium carbide (PuC)—uranium carbide (UC) rod type, measurement of fast neutron, 24:18726(R) (UNC-5248)
radiation effects on plutonium carbide—uranium carbide, in-pile, 24:6289
radiation effects on plutonium carbide—uranium carbide rod-type, in-pile, 23:8350
radiation effects on plutonium carbide—uranium carbide pin-type, relations of metal additives and stoichiometry with in-pile, 24:10205
radiation effects on plutonium dioxide—uranium dioxide, at 125,000 MWd/t burnup, 23:41752 (GEAP-5761)
radiation effects on plutonium dioxide—uranium dioxide, at 20,000 MWd/t in-pile, 24:21444 (EURAEC-2135)
radiation effects on plutonium dioxide—uranium dioxide, in-pile, 22:8845 (EURFNR-423)
radiation effects on plutonium dioxide—uranium dioxide and uranium dioxide pin-type, comparison of experimental results with prediction of in-pile, 25:47180
radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2), postirradiation examination of, 22:53454 (BNWL-828)
radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2), postirradiation examination of, 23:9237(R) (BNWL-907)
radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, measurement of fast neutron, 23:47341 (GEAP-5748)
radiation effects on plutonium, effects on EBWR stability of, 21:38523
radiation effects on plutonium—uranium ratios in, 21:32029 (AECL-2695)
radiation effects on plutonium-bearing, 25:52425 (A/CONF.49/P-379)
radiation effects on plutonium-enriched oxide, in PRTR, 21:4412 (BNWL-314)
radiation effects on pyrolytic-carbon-coated, mathematical model for, 21:15668
radiation effects on rod-type carbide, at 70 to 35 kW/ft, in-pile, 25:4889(R) (UNC-5263)
radiation effects on rod-type SA-1, in-pile, 24:21445(R) (GEAP-10121)
radiation effects on ROVER, destructive inspection procedures for, 24:7245
radiation effects on rupture properties of, 24:36356 (ORNL-4586, pp 98-117)
radiation effects on SAP-clad at high burnup, 22:49859
radiation effects on SAP-clad uranium carbide, computer code for calculation of in-pile, 23:36270 (EUR-4255)
radiation effects on SAP-clad uranium carbide, in-pile, 23:8356
radiation effects on Saxton, 21:30179(R) (WCAP-3385-10)
radiation effects on Shippingport, 21:27695(R) (WAPD-MRP-120)
radiation effects on short cylindrical, strain and stress analysis of, neutron, 21:41632
radiation effects on sintered pellet-type, in-pile, 22:771
radiation effects on SM-1A, in-pile, 24:42286 (ORNL-TM-2967)
radiation effects on sodium-bonded carbide, at high burnups, in-pile, 22:45806(R) (WARD-3791-21)
radiation effects on sodium-bonded plutonium carbide—uranium carbide, 23:12396(R) (WARD-3791-27)
radiation effects on Sphere-Pac sol-gel derived plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:7373
radiation effects on stainless steel clad impregnated graphite, design of experiment for studies of in-pile, 24:36996 (DP-Report-65)
radiation effects on stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), fast neutron, (E/T), 24:41017
radiation effects on stainless steel clad uranium oxide (UO_2), (E/T), 24:26691 (WCAP-6088)
radiation effects on stainless steel cladding for, fast neutron, 22:19589
radiation effects on stainless steel—uranium dioxide cermet type, at high burnups, 23:8363
radiation effects on stainless steel—uranium dioxide, relations of uranium dioxide density with in-pile, 22:4830
radiation effects on stainless steel—uranium oxide dispersion-type, 21:13289 (ORNL-P-2355)
radiation effects on stainless steel-clad mixed-oxide, 21:14918
radiation effects on stainless steel-clad urania—stainless steel, 21:14918
radiation effects on stainless steel-clad uranium dioxide fuel rods in borated PWR environment, neutron, 21:36891
radiation effects on steam cooled fast reactor Inconel 625 clad uranium oxide (UO_2) and Incoloy 800 plutonium oxide (PuO_2)—uranium oxide (UO_2), measurement of neutron, 24:7125
radiation effects on stresses in EBR-2 drives, model analysis of fast neutron, 23:37530
radiation effects on stresses in pin-type fast, in-pile, 25:54086 (A/CONF.49/P-392)
radiation effects on structure and volume of Zircaloy-clad uranium silicide, in-pile, 24:4854 (AECL-3381)
radiation effects on structure of plutonium oxide (PuO_2)—uranium oxide (UO_3) rod type, neutron, 25:20836 (WHAN-SA-79)
radiation effects on structure of stainless steel-clad uranium, 25:52406(T) (JPRS-53800, pp 245-51)
radiation effects on Swedish instrumented, 22:12003 (AE-306)
radiation effects on swelling and elongation in, measurement of in-pile, 23:52498
radiation effects on swelling in EBR-2 drives, fast neutron, 23:37531
radiation effects on swelling in pin-type uranium oxide (UO_2), analysis of fast neutron, 23:13506(R) (WCAP-3269-23)
radiation effects on swelling in thorium—uranium alloy, thermal neutron, 23:37543
radiation effects on swelling in uranium oxide (UO_2) pellet type, thermal neutron, 23:37541
radiation effects on swelling in Zircaloy 4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) pellet type water cooled, 24:33313
radiation effects on swelling of aluminum—uranium oxide, in-pile, 24:3048 (ORNL-4470, pp 94-111)
radiation effects on swelling of carbide, at power of 20 to 34 kW/ft, 24:19498(R) (UNC-5251)
radiation effects on swelling of EBR-2 breeding blanket subassemblies, measurement of fast neutron, 24:11186 (ANL-7597)
radiation effects on swelling of EBR-2 plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, measurement of fast neutron, 24:7209
radiation effects on swelling of liquid metal cooled, fast neutron, 25:48256 (CONF-710601-4)
radiation effects on swelling of Mark-1A driver-type, in-pile, 24:25632 (ANL-7417, pp 3-22)
radiation effects on swelling of metal clad plutonium—uranium—zirconium alloy, measurement of fast neutron, 24:22403 (ANL-7602)
radiation effects on swelling of pressurized water cooled Zircaloy clad uranium oxide (UO_2) rod type, measurement of neutron, 24:7120
radiation effects on swelling of uranium silicide (U_3Si) rod type, 24:7360
radiation effects on swelling of Zircaloy and zirconium alloy—nickel alloy clad uranium silicide (U_3Si) cylinder shaped rod type, measurement of neutron, 23:47338 (AECL-3111)
radiation effects on swelling of Zircaloy-4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) rod type, fast neutron, 25:15366 (WAPD-TM-986)
radiation effects on swelling of, design of profilometer for measuring, 25:51950
radiation effects on tensile stresses in mixed oxide rod type, BRITL computer program for fast and thermal neutron, 24:33483 (GAMD-10007)
radiation effects on tetraboron carbide—uranium dioxide, at 1150 to 1850°C, in-pile, 21:34169 (CEND-3107-306)
radiation effects on thermal conductivity of, in-pile, 22:42994 (ANL-7299, pp 173-97)
radiation effects on thermal properties of stainless steel-clad plutonium dioxide—uranium dioxide, thermal neutron, 24:34975 (EURAEC-2137)
radiation effects on thorium oxide (ThO_2)—uranium oxide (UO_2) coated particle, fast neutron, 25:5990(R) (ORNL-4589)
radiation effects on Type 304 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), measurement of neutron, 24:7368
radiation effects on Type 304 stainless steel-clad thorium dioxide—uranium dioxide, fast neutron, 24:36994 (BAW-3809-6)
radiation effects on Type 316 stainless steel clad plutonium carbide (PuC)—uranium carbide (UC) pin type, fast neutron, 24:46045 (WARD-3791-33)
radiation effects on Type 316 stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2), fast neutron, 25:5990(R) (ORNL-4589)
radiation effects on unclad mixed oxide, at high temperatures, experiment design for in-pile, 23:51082(R) (WARD-3791-39)
radiation effects on urania, plutonia—urania, plutonia—thoria, magnesium oxide—plutonia, neutron, 21:41679 (BNWL-225)
radiation effects on uranium carbide (UC), neutron, 25:20791
radiation effects on uranium carbide SAP-clad, 22:3813(R) (AI-CE-54)
radiation effects on uranium dioxide, 21:6872 (TID-7637)
radiation effects on uranium dioxide-filled molybdenum thermionic, reactor, (E), 24:3222
radiation effects on uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) sealed can type, analysis of fast and thermal neutron, 23:49564(R) (GA-9639)
radiation effects on uranium—plutonium, 21:42725(R) (ANL-7357)
radiation effects on uranium—plutonium—zirconium, postirradiation analysis of, 22:12006(R) (ANL-7399)
radiation effects on viscoelastic response of graphite-matrix, neutron, 25:16618
radiation effects on volume changes in Zircaloy-2-clad hollow-core uranium, 24:14866(R) (BNWL-658)
radiation effects on Yankee Core I spent, 21:46870 (WCAP-6084)
radiation effects on Zircaloy 2-clad and Type 304 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of neutron, 23:7429(R) (EURAEC-2065)
radiation effects on Zircaloy clad plutonium oxide (PuO_2)—uranium oxide (UO_2), defect test assembly for, 24:26835(R) (BNWL-1358)
radiation effects on Zircaloy clad uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, (E), 24:43857(R) (BNWL-1442)
radiation effects on Zircaloy clad uranium oxide (UO_2), examination of, 22:27416(R) (ORNL-4228)
radiation effects on Zircaloy cladding of, neutron, 22:4823
radiation effects on Zircaloy-2 clad, 21:23760
radiation effects on Zircaloy-2-clad EPW-6/8A, 22:4868 (GEAP-5100-G)
radiation effects on Zircaloy-2-clad hollow-core uranium, at 260°C, neutron, 22:33001
radiation effects on Zircaloy-2-clad urania, 21:19359(R) (GEAP-5405)
radiation effects on Zircaloy-2-clad uranium dioxide, in-pile, 24:14970
radiation effects on Zircaloy-2-clad uranium oxide (UO_2), transient, 22:32984
radiation effects on Zircaloy-2-clad vibrationally packed uranium dioxide, in-pile, 22:41124 (BNWL-SA-1674)
radiation effects on Zircaloy-2-clad, in-pile, 22:4824
radiation effects on Zircaloy-4 clad uranium dioxide, in-pile, 22:49858 (WAPD-TM-631)

radiation effects on Zircaloy-4-clad low-density uranium dioxide rod, evaluation of neutron, 22:41133 (WAPD-TM-596)
radiation effects on Zircaloy-4-clad urania, effects of pellet configuration on, in-pile, 21:39660 (WAPD-TM-629)
radiation effects on Zircaloy-clad fused uranium dioxide tubular, effects of thermal rating and bulk density on, 21:500 (DP-1060)
radiation effects on Zircaloy-clad pellet-type, relations of fuel spacer disks with in-pile, 24:48909 (AECL-3606)
radiation effects on Zircaloy-clad plutonia—urania, in-pile, 21:32031 (BNWL-SA-1065-S)
radiation effects on Zircaloy-clad plutonia—urania, in-reactor, 21:10203 (BNWL-SA-256)
radiation effects on Zircaloy-clad plutonium dioxide—uranium dioxide, under PRTR conditions, 23:8361
radiation effects on Zircaloy-clad uranium dioxide, in-pile, 24:8169 (DP-997)
radiation effects on Zircaloy-clad uranium dioxide, at 27, 200 MWd/t, 22:49712(R) (GEAP-5624)
radiation effects on Zircaloy-clad uranium dioxide, at liquid—solid equilibrium temperature, 23:1059
radiation effects on Zircaloy-clad uranium dioxide, relations of central melting with in-pile, 23:46148(R) (GEAP-10042)
radiation effects on zirconium alloy-clad uranium dioxide, in-pile, 25:43010
radiation effects on, design of Belgian Reactor 2 facilities for testing, 25:40130 (EUR-4632)
radiation effects on, design of hot cells for determination of, 22:51150
radiation effects on, equipment and methods for determination of, 22:51147
radiation effects on, equipment and methods for determination of, 22:52216
radiation effects on, for Incore Thermionic Reactor, 25:35936
radiation effects on, limitations of least squares method for determining, 25:58301 (RD/B/N-1971)
radiation effects on, methods for mechanical analysis of, 22:25145
radiation effects on, one-group method for calculating γ dose fields after, 25:36265
radiation effects on, produced by vibratory compacting and swaging, 22:28893
radiation effects on, roles of uranium dioxide—can distances and filling gas in, 22:31528
radiation effects study of urania—plutonia, for Saxton Power Reactor, 21:38510
radiation effects testing in EBR-11, 21:13946(R) (ANL-7279)
radiation effects testing in Halden BWR, 21:10130(R) (HPR-69)
radiation effects testing of experimental, in VBWR, 21:7874(R) (GEAP-3898)
radiation effects testing of fast, comparison of thermal and fast flux facilities for, (T), 24:1999 (ORNL-TM-2716)
radiation effects testing of fast, review of worldwide, 25:51084(R) (GA-10654)
radiation effects testing of fast, summary of international program for, 24:16200
radiation effects testing of gas cooled plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:51083(R) (GA-10517)
radiation effects testing of heavy water moderated gas cooled, 25:57050 (UJV-2551-RT)
radiation effects testing of high temperature gas cooled, 22:46911(R) (ORNL-4266)
radiation effects testing of mixed oxide fast, 25:1888(R) (GEAP-10028-35)
radiation effects testing of mixed oxide fast, 25:18137(R) (GEAP-10028-36)
radiation effects testing of mixed oxide fast, 25:54096(R) (GEAP-10028-38)
radiation effects testing of mixed oxide fast, 24:43762(R) (GEAP-10028-33)
radiation effects testing of mixed uranium oxide (UO_2)—plutonium oxide (PuO_2) fast, 25:28691(R) (GEAP-10028-37)
radiation effects testing of molybdenum clad uranium oxide (UO_2), 25:6198
radiation effects testing of N.S. Savannah Core I, in VBWR, 21:12213 (GEAP-3342)
radiation effects testing of organic cooled ceramic, 24:18737
radiation effects testing of plates in MTR L-51 and ETR G-12 facilities, 21:18203(R) (IDO-17218)
radiation effects testing of plutonium carbide rods, 21:13946(R) (ANL-7279)
radiation effects testing of plutonium dioxide—uranium dioxide—zirconium dioxide, 22:45816(R) (NUMEC-3505-27)
radiation effects testing of plutonium dioxide—uranium dioxide, 21:8155
radiation effects testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, (E), 25:23285(R) (NEDC-12152)
radiation effects testing of plutonium—uranium alloy rods, 21:13946(R) (ANL-7279)
radiation effects testing of plutonium—uranium carbide and oxide, 21:13946(R) (ANL-7279)
radiation effects testing of sodium cooled fast breeder oxide, 23:23867
radiation effects testing of sodium-bonded stainless steel clad plutonium carbide (PuC)—uranium carbide (UC), 25:34358 (LA-4669)
radiation effects testing of stainless steel-clad cermet, 21:13946(R) (ANL-7279)
radiation effects testing of steam cooled fast breeder, 23:23914
radiation effects testing of uranium sulfide rods, 21:13946(R) (ANL-7279)
radiation effects testing of vented stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2), performance of fission product traps during, (E/T), 25:51084(R) (GA-10654)
radiation effects testing of Zircaloy clad uranium oxide (UO_2), 25:51245 (JAERI-13750)
radiation effects testing of Zircaloy-2 clad metallic uranium, 25:1894
radiation effects testing of Zircaloy-2 clad uranium oxide (UO_2), 25:44208 (KAE-68-81)
radiation effects testing of Zircaloy-2 clad uranium oxide (UO_2), 25:44207 (KAE-68-46)
radiation effects testing of Zircaloy-4-clad uranium dioxide, 21:11263 (WAPD-TM-595)
radiation effects testing of zirconium alloy clad sintered uranium oxide (UO_2), description of, 25:54187 (A/CONF.49/P-720)
radiation effects testing of, molten fuel impingement on cladding in, 21:20595 (CONF-660511-, pp 3.2.1-5)
radiation effects testing of, techniques for, 22:6164
radiation emission by natural uranium, 24:9413
radiation emission from irradiated gas cooled, 25:25985 (RD/B/N-1887)
radiation from spent, raw sewage treatment using, 21:43201(P)
radiation hazards during fabrication and handling of, 21:1753
radiation hazards for boiling power, 25:3894
radiation monitoring of melted stainless steel-clad uranium oxide (UO_2), effects of humidity on aerial, 22:14294 (ORNL-4198)
radiation stability of paste type, 21:23589(R) (ANL-7308)
radiation testing at 65 MW(t) of EBR-2 driver, 24:7187
radiation testing facilities for SNAP 8, 21:21762 (CONF-660511-, pp 3.8.1-21)
radiation testing for fast reactors, 21:38741 (BNWL-CC-511)
radiation testing for HWOCR fuel element prototypes, 21:42723 (AI-CE-43)
radiation testing in Big Rock Power Reactor of, 21:44837(R) (GEAP-5521)
radiation testing in CABRI of, 21:46951
radiation testing in EBR-II, 21:13947(R) (ANL-7286)
radiation testing in EVESR, 21:7879(R) (GEAP-5269)
radiation testing in Fermi Fast Breeder Reactor, specifications for, 21:42727 (KFK-586)
radiation testing in HFIR of special, 21:46947(R) (ORNL-TM-2017)
radiation testing in TREAT of fast, 21:46906
radiation testing in TREAT, design of fast neutron converter region for, (T), 25:41502 (ANL-7816)
radiation testing of AARR stainless steel-clad urania plates, 21:40675(R) (IN-1083)
radiation testing of carbon dioxide cooled steel clad uranium oxide (UO_2) rod type, (E), 24:30959
radiation testing of clad plutonium dioxide—uranium dioxide at 57,000 MWd/t burnup, 24:8211(R) (NUMEC-3524-67)
radiation testing of coated particle type, under simulated HTGR conditions, 23:34896(R) (GA-8356)
radiation testing of coated particle-type, 21:38447(R) (GA-6830)
radiation testing of coated-particle loaded, for HTGR, 24:14977
radiation testing of experimental plutonium, conditions in PRTR for, 21:44935 (BNWL-SA-1204)
radiation testing of fast breeder, programs in BR-2, FR-2, and MZFR for, 24:18653 (KFK-964, Sect. 10.1-14)
radiation testing of fast ceramic, 21:46854(R) (GEAP-5098)
radiation testing of fast gas cooled Type 316 stainless steel and Hastelloy X clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:33312
radiation testing of fast gas-cooled, 21:38463(R) (ORNL-4133)
radiation testing of Fort St. Vrain Power Reactor Unit 1 hexagon shaped graphite matrix, 24:9059
radiation testing of FTR driver pins, 23:49584(R) (BNWL-1090)
radiation testing of FTR stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:7178
radiation testing of gas-cooled, design and operation of natural circulation in-pile loops for, 22:42373
radiation testing of high temperature gas cooled graphite matrix BISO and TRISO coated particle, 24:33327
radiation testing of high temperature gas cooled graphite matrix BISO and TRISO coated particle, 24:33328
radiation testing of high-burnup uranium-plutonium alloy, 23:11350 (ANL-7388)
radiation testing of HWOCR SAP-clad, 21:42724(R) (AI-CE-56)
radiation testing of Incoloy-800 clad uranium oxide (UO_2) pellet-fueled, in supercritical water loop, 22:46926 (WARD-3843-1)
radiation testing of Inconel clad uranium oxide (UO_2), for steam cooled fast breeders, 25:23286
radiation testing of liquid metal cooled plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:46276(R) (ORNL-TM-3456)
radiation testing of liquid sodium bonded plutonium carbide (PuC)—uranium carbide (UC), 24:18712 (CONF-690910-, pp 733-41)
radiation testing of liquid sodium cooled uranium oxide (UO_2) pellet type, (E), 25:1851(R) (EURFNR-822)
radiation testing of mixed plutonia—urania, for Rapsodie reactor, 21:19392(T) (EURFNR-209-F)
radiation testing of mixed-carbide, 22:53463(R) (UNC-5217)
radiation testing of mixed-oxide, local maximum power measurements in, 22:30343(R) (EURAEC-1992)
radiation testing of MTR-type aluminum clad aluminum—uranium alloy, in DR-3 heavy water forced circulation in-pile loop, 24:16242 (RISO-M-976)
radiation testing of ORR uranium nitride (UN), 24:7184
radiation testing of oxide pin-type, safety evaluation of in-pile, 24:23506(R) (WARD-4135-4)
radiation testing of plutonia—urania, 21:13947(R) (ANL-7286)
radiation testing of plutonium, 22:6037
radiation testing of plutonium alloy—thorium alloy—uranium alloy pin type, 24:7371
radiation testing of plutonium carbide rods, 21:13947(R) (ANL-7286)
radiation testing of plutonium carbide—uranium carbide, 21:13947(R) (ANL-7286)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, at high burnup, 23:52403 (EURAEC-2097)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), for gas-cooled fast breeder, 23:15640(R) (GA-8895)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), uranium oxide (UO_2), uranium oxide (UO_2) cermets, uranium carbide (UC), and uranium nitride (UN), 25:31568(T) (EURFNR-823)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), for gas cooled fast breeders, 24:13551(R) (GA-9811)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) particle type, 25:48235(R) (BNWL-1522-2)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), for gas cooled fast breeder reactors, 25:18136(R) (GA-9838)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), in EBR-2, 22:42358 (BNWL-650)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, for gas cooled fast breeder reactors, 25:44125 (ORNL-TM-3427)
radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), for gas cooled fast breeder, 23:43114(R) (GA-9359)
radiation testing of Plutonium Recycle Test Reactor plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:7353(R) (BNWL-1224)
radiation testing of plutonium, fission ratio and reactivity coefficients measurements in, 21:40536 (ANL-7349, pp 2-91)
radiation testing of plutonium, in BR-2, 22:10075(R) (EURAEC-1929)
radiation testing of plutonium—uranium alloy rods, 21:13947(R) (ANL-7286)
radiation testing of refractory metal clad tungsten—uranium oxide (UO_2), 24:33457
radiation testing of SAP-clad uranium carbide, design, fabrication processes, and status for HWOCR program of, 21:44816 (AI-CE-78)
radiation testing of stainless steel clad intermetallic UAl_3, 24:7370
radiation testing of stainless steel clad mixed oxide, program for high temperature fast flux, 25:5989 (GA-10264)
radiation testing of stainless steel clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:39249 (A/CONF.49/P-77)
radiation testing of stainless steel clad uranium oxide (UO_2)—plutonium oxide (PuO_2), 25:34372
radiation testing of stainless steel clad uranium oxide (UO_2)—plutonium oxide (PuO_2), 25:34371
radiation testing of stainless steel clad uranium and molybdenum—uranium alloy, fission gas release in, 24:11325 (CEA-R-3888)
radiation testing of stainless steel clad uranium carbide (UC) fast, 24:41048 (TRG-Report-1911, pp 253-65)
radiation testing of stainless steel-clad cermet, 21:13947(R) (ANL-7286)
radiation testing of stainless steel-clad plutonium nitride—uranium nitride, design of capsule for in-pile, 24:17391 (CONF-690910-, pp 637-51)
radiation testing of thorium carbide (ThC_2)—uranium carbide (UC_2) and uranium carbide (UC_2) particle type, 25:37018 (JUL-701-RW)
radiation testing of Type 304 stainless steel clad uranium oxide (UO_2) pin type, 24:43767 (ORNL-TM-2859)
radiation testing of urania, for Gas Cooled Fast Reactor, 21:38486
radiation testing of uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), for gas cooled fast breeder, 23:49564(R) (GA-9639)
radiation testing of uranium oxide (UO_2) pellet type, 24:13525 (RCN-111)
radiation testing of uranium sulfide rods, 21:13947(R) (ANL-7286)
radiation testing of water-cooled, design of in-pile loops for, 22:42372
radiation testing of wire-wrapped, for Canadian power reactors, 22:35418 (AECL-3089)
radiation testing of Zircaloy 2 clad uranium oxide (UO_2) pin type, 25:10125(R) (NP-18573)
radiation testing of Zircaloy 4 clad uranium oxide (UO_2) graphite matrix, 24:4161 (AECL-3380)
radiation testing of Zircaloy clad oxide and mixed oxide, in R-2 reactor, 24:47907 (RT/ING-(70)6)
radiation testing of Zircaloy clad plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:18098(R) (BNWL-1522-1)
radiation testing of Zircaloy clad plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, internal gas pressure behavior during, 24:33555
radiation testing of Zircaloy clad uranium oxide (UO_2), length changes from, 24:18511(R) (WCAP-3017-6091)
radiation testing of Zircaloy clad uranium oxide (UO_2), dimensional changes, fission gas release, microstructure changes, and burnup from, (E), 25:20735 (HPR-127)
radiation testing of Zircaloy clad uranium oxide (UO_2) pin type, 24:36041(R) (HPR-117)
radiation testing of Zircaloy clad uranium oxide (UO_2) pin type, 24:31081(R) (HPR-124)
radiation testing of Zircaloy clad uranium oxide (UO_2), in Halden during 1964 to 1966, (E), 25:20736 (HPR-132)

radiation testing of Zircaloy-2 clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), plenum gas temperature and internal gas pressure buildup during, (E/T), 24:46051
radiation testing of Zircaloy-2 clad uranium dioxide, in-pile, 23:18282 (HPR-105)
radiation testing of Zircaloy-2 clad uranium oxide (UO$_2$) pellet type, in Halden Boiling Reactor, 24:16191 (HPR-114)
radiation testing of Zircaloy-2-clad uranium oxide (UO$_2$) pellet-type, analysis of, 22:32988
radiation testing of Zircaloy-4 clad uranium oxide (UO$_2$), (E), 24:5507(R) (WCAP-3017-6090)
radiation testing of Zircaloy-4 clad uranium oxide (UO$_2$) pellet type, (E), 25:39166(R) (WCAP-3017-6094)
radiation testing of Zircaloy-clad cored uranium silicide (U$_3$Si), rate of swelling during, 22:18603
radiation testing of zirconium alloy clad uranium oxide (UO$_2$), 25:39293(T) (LB/G-3005)
radiation testing of, compilation of use of Halden Reactor for, 22:22700 (HPR-81)
radiation testing of, criteria for, 22:32777 (KFK-700(Pt. XI))
radiation testing of, criteria for, 22:53273(T) (EURFNR-472)
radiation testing of, design and fabrication of capsules for, 22:42490
radiation testing of, development of in-core instruments for, 24:18675(R) (NP-18149)
radiation testing of, methods and equipment for, 24:18699 (CONF-690910)
radiation testing program for fast and gas cooled reactors, in Italy, 25:53889 (A/CONF.49/P-188)
radiation testing program for liquid sodium cooled pin type, (E), 25:37064 (HEDL-SA-81)
radioactive material containment from damaged, method for, 22:43020(P)
radioactivity in void spaces in, empirical diffusion method for calculation of volatile, 22:25333 (ORNL-4229, pp 162-79)
radioactivity measurements in spent Yankee Power Reactor, 21:46869(R) (WCAP-6083)
radioactivity problems with FTR plutonium, 23:31193(R) (BNWL-567)
radiography of highly radioactive, development of film for, 24:27304(T) (LA-4366-TR)
radiography of, photographic films for, 23:11921
radioinduced anisotropic growth of centrifugally bonded vendor fissium—uranium alloy, effects of compressive stress and irradiation temperature on in-pile, 25:22131
radioinduced coating failure in GAIL III-B, effects of burnup and temperature on in-pile, 23:14415 (GAMD-5605)
radioinduced deformation and swelling of ceramic, computer analysis of, 21:1963 (WAPD-TM-583)
radioinduced gas release and swelling in carbide, factors affecting, 21:26925 (BMI-1799)
radioinduced reactions between cladding and fuel in pin-type, in-pile, 25:55648 (RCN-144)
radioinduced reactions of Zircaloy-2 clad urania with graphite, refractory metals, and oxides at high temperatures, 21:1955 (AECL-2601)
radioinduced stresses in tubular, design of growth-inhibited ceramic pellets for reduction of, 23:8281(P)
radioinduced swelling at high temperatures of alloy and cermet types, mathematical model of in-pile, 23:36171(R) (BMI-1864)
radioinduced swelling during one reactor period, 22:4827
radioinduced swelling in ceramic, compressible central mandril for, 21:1936(P)
radioinduced swelling in cermet, calculations of in-pile, 24:17345 (ORNL-4480, pp 213-44)
radioinduced swelling in Peach Bottom, measuring equipment for, 21:25624(R) (GA-7595)
radioinduced swelling in solid rod-type, during a reactor period, 22:28846
radioinduced swelling in uranium silicide, effects of temperature on in-pile, 25:6917
radioinduced swelling in uranium—uranium carbide, 21:30216
radioinduced swelling in, effects of bubbles on, 22:49777
radioinduced swelling of clad urania, in-reactor, 21:12158(R) (WCAP-3269-18)
radioinduced swelling of dispersion type, effects on void volume, 22:31527
radioinduced swelling of Mark-1A, in-reactor, 21:7856(R) (ANL-7255)
radioinduced swelling of Mark-IA driver-type, in-TREAT, studies of failure during, 25:45091
radioinduced swelling of metallic uranium, in-pile, 22:8754
radioinduced swelling of thorium—uranium—zirconium alloy tube-type, in-pile, 24:14866(R) (BNWL-658)
radioinduced swelling of Zircaloy canned uranium dioxide, effects of initial diametral clearance on in-pile, (E), 22:26092 (CEA-R-3358)
radioinduced swelling of Zircaloy-clad urania, in-pile, 21:7901(R) (WCAP-3269-17)
radioinduced swelling of, design of facility for in-pile measurement of, 25:52409 (KFK-1398)
radioinduced swelling of, mechanics of, 21:5017 (WAPD-TM-570)
radioinduced voids in, equipment and method for measurement of, 24:6199
radioisotope buildup in plutonium, effects of long exposure on, 22:6014
radioisotope content of spent, from fast and thermal reactors, relation between burnup and heavy, (E), 25:21321
radioisotope distribution in, two-dimensional gamma scanning equipment and method for determining, 24:46448
radioisotope production in spent power, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
rare earth fission products in spent, use of x-ray spectrometer for determination of, 22:30118 (ANL-7438)
reaction rate measurements in uranium-238, fission fragment track counting in polycarbonates for, 24:18619
reaction rates in plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), effects of fuel particle size on relative, (E/T), 24:16317(R) (BNWL-1289)
reaction-rate ratios in, effects of discontinuities on, 21:23624 (WCAP-6066)
reactions of irradiated mixed oxide pin-type, with stainless steel cladding, 25:32800
reactions of stainless steel clad pin-type FFTF assemblies of, with flowing sodium at 1060°F, 24:23428 (BNWL-1261)
reactions of zircaloy clad uranium dioxide, with air—steam mixtures at 1000 to 2176°C, 23:30010 (GEMP-1010, pp 232-59)
reactivity measurements on plutonia—urania, for PRTR, 21:38533
reactivity of enriched uranium and plutonium, techniques for measurement of, (E/T), 24:35935 (EUR-4475)
reactivity of Saxton 3 x 3 urania and cermet, effects of corrosion and pH chemistry on, 21:40584(R) (WCAP-3696-4)
reactivity parameters of ceramic fast breeder, 22:1775 (RT/FI-(67)23)
reactivity perturbations in Hector single-cluster plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), comparison of calculated and measured, 23:21508 (AEEW-R-499)
reactivity temperature coefficient in heavy water moderated oxide, effects of burnup on, (T), 23:23918
reactivity worth and Doppler coefficient for thorium-232 in HTGR type, 24:7137
reactivity worth calculations for, comparison of PRIZE code with TWODIG, PERSEUS, CALIF, ARGOSY, and WIMS codes for, 25:1787 (RD/B/N-1724)
reactivity worth for assemblies of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pin type, effects of configuration on, (E/T), 24:26776 (RT/FI-(69)49)
reactivity worth measurements in SPERT III E-core, 21:1206(R) (IDO-17206)
reactivity worth measurements of UHTREX, 21:40563(R) (LA-3760)
reactivity worth measurements of uranium, effects of boron, rhodium, and thorium on, 21:25624(R) (GA-7595)
reactivity worth measurements on irradiated and unirradiated mixed-oxide, 22:53454 (BNWL-828)
reactivity worth measurements on Peach Bottom, 21:35626
reactivity worth measurements on Peach Bottom, (E/T), 21:12134 (GAMD-7355)
reactivity worth of coke-dispersed HTGR-type reactor, calculation of, 23:13412(R) (GA-8530)
reactivity worth of graphite moderated thorium oxide (ThO$_2$)—uranium oxide (UO$_2$), 24:31041(R) (BNWL-1381-1)
reactivity worth of heavy water moderated plutonium—uranium alloy, oscillation method for measurement of, (E), 24:43814 (EUR-4486)
reactivity worth of HTGR-type reactor, effects of thorium concentration on, 23:15600(R) (GA-8860)
reactivity worth of Los Alamos Turret Reactor, measurement of, 23:45092(R) (LA-4207)
reactivity worth of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod, effects of plutonium oxide (PuO$_2$) particle size on, (E/T), 25:54287 (BNWL-1608)
reactivity worth of PRTR heavy water-cooled and-moderated 55-element Batch Core, measurement of, 23:13539(R) (BNWL-921)
reactivity worth of San Onofre Power Reactor Cycle 1, physics test comparison with calculated, (E/T), 23:15559 (WCAP-3269-66)
reactivity worth of Thermionic Critical Facility Assembly 1 enriched uranium and polyethylene foil-type, comparison of calculated and measured, 23:21513 (GA-8767)
reactivity worth of uranium dioxide (UO$_2$)—zirconium oxide (ZrO) ternary ceramic pellet, measurement of temperature dependent, 23:26086 (IN-1218, pp 1-56)
reactivity worth of water cooled rod type uranium oxide (UO$_2$) and plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), (E/T), 24:43857(R) (BNWL-1442)
reactivity worths of Annular Core Reactor Experiment, measurements of, 21:38721
reactivity worths of proposed Gentilly startup booster rods, (E), 23:37357 (AECL-3258)
reactivity worths of ZPR-9, determination of spatially dependent, 21:44930 (ANL-7208)
recycle development program for HTGR-type, analysis of economics and technology of, 23:2034 (ORNL-TM-2377)
recycle economics for HTGR-type reactor, analysis of optimum reprocessing, 23:13412(R) (GA-8530)
recycle in Belgium of water cooled reactor of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), review of plutonium enrichment for, 23:37534
recycle of SENA Power Reactor plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), calculation of optimum plutonium enrichment for, 23:37440
recycle program for LMFBR, analysis of optimum, 23:2036 (WASH-1108)
recycling plutonium-enriched, in water reactors, 23:16546 (EURAEC-2072)
refabrication of, description of plants and technology for, 25:35304
remote handling equipment for, electro-mechanical position indicator for grab of, 25:26080(P)
remote handling of FFTF, evaluation of gas-cooling system for, 21:46938(R) (BNWL-501)
remote handling systems for Lucens, design of, 21:38591
remote-handling equipment for spent, description of water-submerged transfer container, 22:50859(P)
removal from packed beds, procedure for, 21:5722(P)
removal from reactor core, design of grappling system for, 21:39111(P)
removal of distorted breeder, from Dounreay Fast Reactor, 21:7902
removal of Piqua, analysis of binding in, 21:1169(R) (NAA-SR-Memo-12071)
removal of spent, system for protection of fuel channel tubes from thermal shock during, 22:6184(P)
repair of instrumented plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, 25:57111(R) (GEAP-10010-29)
replacement in heavy water cooled and moderated reactors, method for heavy water to gas to light water coolant change during, 25:1864(P)
reprocessing and fabrication methods for fast oxide, discussion of, 22:3939
reprocessing and refabrication of, description of sampling section of Rotondella—Matera, Italy, plant for, 23:45448
reprocessing and refabrication plant development for recycle gas cooled, 25:48257(R) (GA-10661)
reprocessing at Marcoule, plutonium concentration and purification in, 22:35891
reprocessing at Marcoule, waste vitrification in, 22:37831 (CEA-N-856, pp 434-44)
reprocessing at West Valley Plant, application for licensing amendment for neptunium recovery in, 22:33481 (DOCKET-50201-5)
reprocessing at West Valley Plant, neptunium recovery in, 22:33483 (DOCKET-50201-7)
reprocessing by fluidized-bed fluoride volatility process, 22:30664
reprocessing by fluidized-bed fluoride-volatility techniques, 22:33527
reprocessing by fluoride volatility techniques, criticality calculations for, 22:45143 (K-1734)
reprocessing by fluoride-volatility techniques, problem of radioactively generated heat in, 22:4232 (K-L-1979)
reprocessing by Purex process, fast extractors for use in, 22:16643 (KFK-652)
reprocessing by Purex process, suppression of radioiodine release in, 22:30667
reprocessing by selective solvent extraction, separation of uranium and plutonium in, 25:26346(P)
reprocessing by shear-leach methods, uranium-235 determination in sheared cladding from, 22:12225 (ORNL-4135)
reprocessing by volatility process, encapsulation of alumina beds from, 23:17507(T) (AEC-tr-7028, pp 154-98)
reprocessing capacities for, in Federal Republic of Germany, 25:51552 (A/CONF.49/P-378)
reprocessing cycle development for gas cooled, 24:43697(R) (GA-10088)
reprocessing cycle development for gas cooled, 25:8050(R) (GA-10288)
reprocessing cycle development for gas cooled, (E), 25:36977(R) (GA-10501)
reprocessing cycle development for gas cooled, (E), 25:28633(R) (GA-10399)
reprocessing cycle for HTGR type, 24:28987(R) (GA-9944)
reprocessing cycle for HTGR type, 24:18585(R) (GA-9815)
reprocessing fast-breeder, mechanical head-end procedure in, 22:27867 (ORNL-4204, pp 52-9)
reprocessing for recovery of neptunium, installation and economics for, 22:10342
reprocessing in Argentina of, economic analysis of, 22:3931 (NP-16987)
reprocessing in Japan, 22:4243
reprocessing in Spain, development of, 22:33536
reprocessing in UK to 1990, proposed methods for disposing of radioactive waste from, 25:51750 (A/CONF.49/P-512)
reprocessing methods for HTGR type, 23:40317(R) (GA-8662)
reprocessing of 1000 MW(e) LMFBR, trade-off studies of on-site versus off-site, 24:1965 (BAW-1328(Vol.4))
reprocessing of aluminum—uranium, effects of silicon content on, 22:48907
reprocessing of aluminum—uranium, vitrification of wastes from, 22:37826(T) (ANL-Trans-628, pp 51-128)
reprocessing of aluminum-clad uranium-233-labeled oxide, separation of thorium-228 in, 23:38072
reprocessing of BISO and TRISO, head-end processes in, 24:7435 (GAMD-9260)
reprocessing of breeder, economic comparison of aqueous and nonaqueous methods for, 23:13808(T) (ANL-Trans-708)
reprocessing of breeder, nitric acid dissolution for use of Purex process in, 22:42810(T) (EURFNR-471)
reprocessing of breeder, nitric acid dissolution for use of Purex Process in, 22:25460 (KFK-673)
reprocessing of carbide and graphite, head-end processes in, 24:22738
reprocessing of carbide, graphite, or metal-coated, by dissolution in molten iron or iron alloys, 24:46310(P)
reprocessing of ceramic fast-breeder, flowsheet for continuous salt transport process for, 22:35880 (ANL-7450, pp 7-20)
reprocessing of ceramic, by fluoride volatility process, 22:30647 (EURAEC-1694)
reprocessing of ceramic, by volatilization, 22:25470(T) (ANL-Trans-590)
reprocessing of ceramic, salt transport process for, 23:2397
reprocessing of ceramic, use of high-pressure hydraulic jet in, 22:27865 (ORNL-4204, pp 46-51)
reprocessing of ceramic, use of mechanical separations and solid-state reactions in, 22:45140 (BMwF-FBK-68-08)
reprocessing of clad oxide, Shear-Leach Process, 23:38028 (ORNL-3984)
reprocessing of clad uranium dioxide, chopper and dissolver for, 22:51048(T) (ORNL-tr-1974)

reprocessing of coated-particle, economics of, 22:42812 (GAMD-8458)
reprocessing of Dresden, accountability and operations for, 23:4717 (SRO-123)
reprocessing of EBR-II, by electrolytic dissolution and solvent extraction, 23:13824(R) (IN-1201)
reprocessing of enriched uranium alloy, operation of ATTILA facility for, 23:13805(T) (ANL-Trans-705)
reprocessing of enriched uranium, criticality in, 22:6377
reprocessing of enriched, criticality analysis of moderated unit containing solutions of uranium-235 in, 22:6378
reprocessing of enriched-uranium, 22:37830 (CEA-N-856, pp 71-7)
reprocessing of enriched-uranium, by ion-exchange and fluoride volatility processes, 22:16695(P)
reprocessing of fast and thermal, in USSR, review on, 25:51555 (A/CONF.49/P-435)
reprocessing of Fast Breeder Reactor, calculations for volatility in, 22:42813(R) (K-L-1780(Pt.26))
reprocessing of fast breeder, commercial TBP process for, 22:23108
reprocessing of fast breeder, Purex process for, 23:6204
reprocessing of fast breeder, salt-transport process for, 22:23107
reprocessing of fast, radiation damage to chlorine fluorides in fluoride volatility, 22:42725 (EURAEC-2024)
reprocessing of fast-breeder, 23:9509(R) (K-1769)
reprocessing of fast-breeder, by solvent extraction using TBP, 22:27857 (KFK-680)
reprocessing of fast-breeder, by solvent extraction using TBP, 22:51046(T) (EURFNR-499)
reprocessing of future, economics of, 23:26327 (KFK-884)
reprocessing of graphite clad coated particle, burn—leach—TBP extraction process for, 24:50117 (CONF-700401-, pp 621-46)
reprocessing of graphite, crush-leach method for, 23:49895(R) (ORNL-4235)
reprocessing of graphite—natural uranium, 23:17504(T) (AEC-tr-7028, pp 14-96)
reprocessing of graphite-base, separation of thorium and uranium in, 22:33529
reprocessing of graphite-containing, methods for, 24:22732(T) (ORNL-tr-2259)
reprocessing of graphite-impregnated, design and economic evaluation of head-end process in, 23:4711 (GAMD-7294)
reprocessing of graphite-matrix, 22:35888
reprocessing of graphite-matrix, 22:33529
reprocessing of graphite-matrix Rover, pilot plant for headend, 22:33486 (IN-1181)
reprocessing of graphite-matrix, use of cesium metal in, 22:33514
reprocessing of Hallam, aqueous methods of dissolving sodium bond in, 24:31470
reprocessing of high temperature gas-cooled, economics of, 21:44830(R) (GA-7396)
reprocessing of high temperature gas-cooled, effects of fuel element design on, 21:44830(R) (GA-7396)
reprocessing of high-burnup oxide, extraction procedure used in Japanese plant for, 22:35892
reprocessing of high-burnup, problems in, 23:26327 (KFK-884)
reprocessing of high-plutonium, development of fast separators for use in Purex process for, 22:30646(T) (EURFNR-460)
reprocessing of high-plutonium-content, aqueous methods for, 23:2368(T) (EURFNR-526)
reprocessing of high-plutonium-content, criticality and toxicity problems in aqueous, 22:48897 (KFK-709)
reprocessing of highly enriched uranium, 22:45146 (NP-17588)
reprocessing of highly enriched uranium, at Eurochemic during 1967 and 1968, 25:217 (NP-18397)
reprocessing of highly irradiated enriched uranium oxide, 22:37823(T) (ANL-Trans-619)
reprocessing of highly irradiated, pyrochemical head-end, 25:34688 (EUR-4615)
reprocessing of highly irradiated, use of chain of hot cells for studying, 23:2399
reprocessing of HTGCR, effects of beryllium oxide moderator on economics of, 22:20774 (AAEC/E-179)
reprocessing of HTGR, at Nuclear Fuel Services plant, 23:6197 (GAMD-7657)
reprocessing of HTGR, containing silicon carbide-coated fissile and fertile particles, flow sheets and costs for, 23:2371 (GAMD-8661)
reprocessing of HTGR, containing silicon carbide-coated fissile particles, flow sheets and costs for, 23:2370 (GAMD-8615)
reprocessing of HTGR, design and economic evaluation of head-end process in, 23:4711 (GAMD-7294)
reprocessing of HTGR, development of head-end methods in, 25:54714 (ORNL-4682, pp 80-94)
reprocessing of HTGR, development of head-end processes in, 23:6197 (GAMD-7657)
reprocessing of HTGR, developments in head-end process for, 24:48149(R) (ORNL-TM-3124)
reprocessing of HTGR, economics of, 22:42812 (GAMD-8458)
reprocessing of HTGR, effects of fuel design changes on costs of, 23:17513 (GAMD-9089)
reprocessing of HTGR, evaluation of head-end process for, 24:33760(R) (ORNL-TM-3015)
reprocessing of HTGR, evaluation of head-end steps in, 24:41395(R) (ORNL-TM-3088)
reprocessing of HTGR, head-end, 24:31446(R) (ORNL-TM-3032)
reprocessing of HTGR, head-end processes for, 25:2320(R) (ORNL-TM-3204)
reprocessing of HTGR, head-end processes in, 25:2315 (ORNL-4572, pp 85-97)
reprocessing of HTGR, head-end processes in, 24:31445(R) (ORNL-TM-3004)
reprocessing of HTGR, head-end steps in, 24:41396(R) (ORNL-TM-3112)
reprocessing of HTGR, jaw crusher for head-end, 25:4136 (GAMD-9260(Pt.2))
reprocessing of irradiated carbon-coated, thorium-containing, using chlorine, mechanism of method for, 23:38085
reprocessing of irradiated clad, apparatus and method for continuous, 25:34712(P)
reprocessing of irradiated sheathed, apparatus for, 25:48577(P)
reprocessing of irradiated, comparison of aqueous and nonaqueous methods for, 23:13804(T) (ANL-Trans-704)
reprocessing of irradiated, continuous head end dissolution method for, 25:57539(P)
reprocessing of irradiated, design of oven for pyrometallurgical, 24:41405(P)
reprocessing of irradiated, device and method for, 25:34713(P)
reprocessing of irradiated, production of spherical fuel particles following, 21:22909
reprocessing of irradiated, pyrochemical techniques for, 22:151
reprocessing of irradiated, radiation protection of personnel in, 22:10321 (EURAEC-1938)
reprocessing of irradiated, research on volatility process for, 22:27852(R) (EURAEC-2011)
reprocessing of irradiated, solvent extraction and fluoride volatility method for, 22:14577(P)
reprocessing of LMFBR, development of aqueous methods for, 23:21781(R) (ORNL-TM-2552)
reprocessing of LMFBR, melt-decladding or shear-leach head-end processes in, 25:2314 (ORNL-4572, pp 37-84)
reprocessing of low enrichment, from light-water reactors, 23:9509(R) (K-1769)
reprocessing of low-enrichment, 22:37837(R) (K-1744)
reprocessing of low-enrichment, 22:23099(R) (K-L-1780(Pt.23))
reprocessing of magnesium-clad uranium, economics of aqueous, 22:40161 (KR-126, pp 9-20)
reprocessing of Marcoule, pilot plant for, 22:6420
reprocessing of molybdenum—uranium, Purex process for, 22:27889
reprocessing of molybdenum—uranium, vitrification of wastes from, 22:37826(T) (ANL-Trans-628, pp 51-128)
reprocessing of Na 1 breeder, 22:10322 (KFK-603)
reprocessing of natural uranium fuel slugs irradiated at low levels, zinc sulfide scintillation detectors for in-line monitoring of plutonium concentrations for determining efficiency of Purex process for, 23:7761
reprocessing of nonirradiated Hallam, aqueous method for separation of sodium bond in, 24:46306 (NLCO-1069)
reprocessing of oxide, fluidized-bed fluoride volatility techniques for, 22:35881 (ANL-7450, pp 21-38)
reprocessing of oxide, head-end process for removal of stainless steel cladding in, 25:23641(R) (ANL-7767)
reprocessing of oxide, salt-transport process for, 22:33528
reprocessing of plutonium oxide (PuU$_2$)—uranium oxide (UO$_2$), fluoride volatility process for, 22:16265(R) (ANL-7403)
reprocessing of plutonium, description of safeguard exercise for, 23:40804 (KFK-901)
reprocessing of plutonium- and uranium-containing, selective dissolution and extraction process for, 25:23698(P)
reprocessing of power, by shear-leach process, 23:49895(R) (ORNL-4235)
reprocessing of pyrolytic-carbon-coated sol-gel oxide, evaluation of grind-leach, 22:18866 (ORNL-4213)
reprocessing of SAP-clad carbide or oxide, nitric acid dissolution in, 22:23108
reprocessing of short-cooled, economics of, 22:27867 (ORNL-4204, pp 52-9)
reprocessing of slightly alloyed uranium, vitrification of waste from, 22:37826(T) (ANL-Trans-628, pp 51-128)
reprocessing of small-scale HTGR, crushing and burning methods in, 24:7485 (GAMD-9260)
reprocessing of solid cylindrical pellets, 22:23099(R) (K-L-1780(Pt.23))
reprocessing of spent low-enrichment, for power reactors, conceptual studies on fluoride volatility plant for, 23:7597 (K-1759)
reprocessing of spent uranium oxide (UO$_2$), safety analysis of plant design for Aquafluor Process for, 23:9505 (DOCKET-50268-1)
reprocessing of spent, contamination of earth's atmosphere from, 23:38117
reprocessing of spent, sodium evaporation in argon flow during, 23:46039 (ANL-7520(Pt.1), pp 418-25)
reprocessing of stainless steel- and zirconium-clad oxide, head-end facility at Windscale for, 25:4146
reprocessing of stainless steel- or zircaloy-clad oxide, preliminary safety analysis of Barnwell Nuclear Fuel Plant for, 23:24274 (DOCKET-50332-4)
reprocessing of stainless steel- or Zircaloy-clad uranium oxide, economics of aqueous, 22:40161 (KR-126, pp 9-20)
reprocessing of stainless steel- or zircaloy-clad plutonium dioxide—uranium dioxide and uranium dioxide by modified Purex Process, 23:24274 (DOCKET-50332-4)
reprocessing of stainless steel-clad oxide, TBP process for, 22:23108
reprocessing of stainless steel-clad, pyrochemical head-end method for, 25:34687 (EUR-4614)
reprocessing of thorium and bred uranium HTGR, design and economics of plant for, 23:2369 (GAMD-8382)
reprocessing of thorium-containing graphite-base, chlorination head-end process for, 25:243
reprocessing of thorium-containing, head-end combustion process for, 24:27190(T) (ORNL-tr-2303)
reprocessing of thorium-containing, methods for, 24:22733(T) (ORNL-tr-2260)
reprocessing of uranium dioxide, Aquafluor process for, 22:23106
reprocessing of uranium dioxide, development of fluidized-bed fluoride volatility process for, 22:12400 (K-L-6142)
reprocessing of uranium dioxide, hazards evaluation of fluidized-bed fluoride-volatility pilot plant for, 22:33487 (ORNL-TM-2092)
reprocessing of uranium oxide, dissolution in molten alkali metal compounds in, 22:23125(P)
reprocessing of Yankee, accountability and operations for, 23:4718 (SRO-124)
reprocessing of Zircaloy-clad plutonium dioxide—uranium dioxide, fluidized-bed fluorination in, 22:21172
reprocessing of Zircaloy-clad uranium dioxide, 23:6196 (ARH-SA-4)
reprocessing of Zircaloy-clad uranium dioxide, by fluidized-bed fluoride volatility process, 23:24275 (K-L-6213)
reprocessing of Zircaloy-clad uranium dioxide, Nitrofluor process for, 22:23106
reprocessing of zirconium alloy, storage and treatment of wastes from, 22:33526
reprocessing of zirconium-clad, 22:23121(P)
reprocessing of zirconium-clad uranium dioxide—zirconium dioxide, by fluoride volatility techniques, 23:13824(R) (IN-1201)
reprocessing of zirconium-clad, electrochemical head-end process for, 24:22728 (NP-18182)
reprocessing of zirconium-containing, corrosion in, 22:4231(R) (IN-1087)
reprocessing of zirconium-containing, materials corrosion resistance in, 23:13824(R) (IN-1201)
reprocessing of, activities at Eurochemic plant, 1964-1966, for, 22:45146 (NP-17588)
reprocessing of, analysis of pilot plant for, 22:6429
reprocessing of, analysis of process streams in, 22:16356 (KR-116)
reprocessing of, analysis of solutions from final purification cycle in, 23:2180 (NP-17617)
reprocessing of, analytical methods for control of, 22:45146 (NP-17588)
reprocessing of, analytical procedures used at Kjeller in, 23:9510 (KR-130)
reprocessing of, aqueous and nonaqueous methods for, 25:6390(R) (CEA-N-1341)
reprocessing of, aqueous methods for, 22:6382
reprocessing of, bibliography on pyrochemical and pyrometallurgical, 23:367 (TID-24745)
reprocessing of, chemical and physical properties of streams and materials encountered in, 23:7497 (ARH-724(Add.))
reprocessing of, citrate stripping of plutonium and uranium from TBP solutions in, 23:13809 (ARH-SA-20)
reprocessing of, Citriflex process for Zircaloy decanning in, 22:45146 (NP-17588)
reprocessing of, commercial feasibility of Redox plant for, 23:9503 (BNWL-920)
reprocessing of, commissioning and operation of Eurochemic plant for, 22:45146 (NP-17588)
reprocessing of, compact pyrochemical methods for, 22:6383
reprocessing of, compact pyrochemical methods for, 22:8187
reprocessing of, compact pyrochemical processes for, 22:23107
reprocessing of, compact pyrochemical processes for, 22:51044 (ANL-7425, pp 19-41)
reprocessing of, compact pyrochemical processes for, 22:33528
reprocessing of, compact pyrochemical processes for, 22:35880 (ANL-7450, pp 7-20)
reprocessing of, conference on design of pilot plant for, Turin, September 23 and 24, 1965, 22:6419
reprocessing of, criticality calculations for, 22:27856(R) (K-1738)
reprocessing of, criticality of dissolvers for, 22:4231(R) (IN-1087)
reprocessing of, description of Norwegian techniques for, 22:16356 (KR-116)
reprocessing of, design and flowsheet for Karlsruhe plant for, 24:22855
reprocessing of, design and flowsheet for Karlsruhe WAK plant for, 25:10756(T) (ORNL-tr-2416)
reprocessing of, design and operation of Karlsruhe plant for, 22:25473
reprocessing of, design and operation of Pakistan Institute of Nuclear Science facilities for, 25:8449 (CONF-691008-18)
reprocessing of, design criteria for Eurochemic plant at Mol for, 22:6424
reprocessing of, design of argon cell for, 22:27879
reprocessing of, design of mechanical handling and chop-leach equipment for use in, 22:40163 (KR-126, pp 31-53)
reprocessing of, determination of fluorine in solutions from, 23:2181 (NP-17619)
reprocessing of, development of aqueous methods for, 22:8185
reprocessing of, development of aqueous methods for, 23:17504(T) (AEC-tr-7028, pp 14-96)
reprocessing of, development of aqueous methods for, 22:23108
reprocessing of, development of aqueous methods for, 22:37824(T) (ANL-Trans-626, pp 1-35)
reprocessing of, development of fluoride volatility process for, 22:12399 (K-L-1780(Pt.22))
reprocessing of, development of fluoride volatility process for, 23:6198 (K-L-6223)
reprocessing of, development of grind-leach methods for, 22:16647 (ORNL-4075, pp 24-37)
reprocessing of, development of halide volatility process for, 23:17509(T) (ANL-Trans-703, pp 45-84)

reprocessing of, development of in-line process control equipment for fluoride volatility, 23:15 (NP-17579, pp V.1-2)
reprocessing of, development of methods for, 22:27863(R) (ORNL-4204)
reprocessing of, development of nonaqueous methods for, 22:37825(T) (ANL-Trans-626, pp 36-58)
reprocessing of, dose rates to solvent in first Purex extraction cycle for, 22:16650(T) (ORNL-tr-1902)
reprocessing of, economic aspects of nuclide recovery in, 23:26334
reprocessing of, economic study of low-throughput facility for, 22:23085 (AAEC/E-187)
reprocessing of, economics and problems associated with, 23:13509
reprocessing of, economics of, 23:48396
reprocessing of, economics of, 21:38432(R) (AI-CE-4)
reprocessing of, efficiency of dry methods of, 22:48898(T) (KFK-tr-249)
reprocessing of, electrolytic cutting and lixiviation head-end step in, 23:2398
reprocessing of, electrolytic dissolution of fuel from can in, 22:8192
reprocessing of, electrolytic methods for, 22:33528
reprocessing of, electronic control of plutonium extraction battery in, 22:8167 (CEA-R-3224)
reprocessing of, engineering and safety analyses of Nuclear Fuel Services, Inc., plant for, 22:18863 (DOCKET-50201-3)
reprocessing of, engineering studies of fluidized-bed volatility process for, 22:8181
reprocessing of, equipment and plant design for aqueous, 22:6382
reprocessing of, equipment fabrication from special alloys in, 22:6426
reprocessing of, Eurex pilot plant for, 22:6430
reprocessing of, Eurochemic process for, 22:30649 (NP-17368)
reprocessing of, explosive perturbations in ventilation system of Eurex plant for, 22:45149 (RT/PROT-(68) 8)
reprocessing of, extraction-evaporation pilot plant for Eurochemic, 22:45146 (NP-17588)
reprocessing of, facilities in Spain for, 22:45150
reprocessing of, fate of niobium and zirconium in TBP process for, 22:16679
reprocessing of, final inactive tests of Eurochemic plant for, 22:8171 (NP-17174)
reprocessing of, fissile material balance in plants for, 23:21776 (KFK-802)
reprocessing of, fissile material flow control at strategic points in plant for, 22:51047 (KFK-801)
reprocessing of, fluidization and volatility techniques in, 22:51045 (ANL-7425, pp 42-93)
reprocessing of, fluidized-bed fluoride volatility process for, 22:8169(R) (EURAEC-1934)
reprocessing of, fluoride volatility program for, 22:27858(R) (K-L-1780(Pt.24))
reprocessing of, fluoride volatility techniques for, 23:11608(P)
reprocessing of, fluoride volatility techniques for, 23:11600 (ISO-627)
reprocessing of, fluoride-volatility methods for, 22:150
reprocessing of, fluoride-volatility techniques for, 22:8186
reprocessing of, for gas-cooled reactors, 24:294
reprocessing of, from breeder reactors at Fontenay aux Roses and the Hague, 22:10343
reprocessing of, from thorium reactors, 22:48909
reprocessing of, General Electric's Midwest Fuel-Recovery Plant for, 22:33526
reprocessing of, head-end problems in, 25:41892 (EUR-4353)
reprocessing of, head-end processes for Eurochemic, 22:45146 (NP-17588)
reprocessing of, head-end treatment in, 24:46302 (DP-Report-338)
reprocessing of, heat load from fission products on fluidized bed in, 22:2173(R) (K-L-1780(Pt.21))
reprocessing of, high-temperature techniques for, 22:8175(T) (ANL-Trans-544)
reprocessing of, hydraulic behavior of pulse columns in, 23:17505(T) (AEC-tr-7028, pp 97-130)
reprocessing of, impact of large-scale plants on economics of, 23:26339
reprocessing of, improved accountability method for input to Eurochemic, 25:21323
reprocessing of, isotopic correlations method for safeguarding during, 25:48775 (BNWL-SA-3929)
reprocessing of, Japanese plant for, 22:35889
reprocessing of, Japanese regulations on, 22:8188
reprocessing of, liquid-metal decladding processes in head-end, 25:39470(R) (ANL-7750)
reprocessing of, management of wastes from, 23:13828(R) (ORNL-TM-2294)
reprocessing of, mathematical model for evaluating efficiency of safeguards systems in facilities for, 25:51844
reprocessing of, mechanical dismantling and cutting in, 22:48910
reprocessing of, mechanical dismantling and cutting in, 23:9498(T) (ANL-Trans-692)
reprocessing of, modifications of 250-ton prototype shear for, 22:14564 (ORNL-4139, pp 23-42)
reprocessing of, multipurpose of units in Eurochemic plant for, 22:6425
reprocessing of, Nitrofluor method for, 22:6384
reprocessing of, nonaqueous methods for, 22:47213
reprocessing of, Norwegian—Dutch research on, 22:33508
reprocessing of, operation of Kjeller, Norway, pilot plant for, 22:16356 (KR-116)
reprocessing of, performance of ICPP facility for, 23:13824(R) (IN-1201)
reprocessing of, pilot plant at Junta de Energia Nuclear of Spain for, 22:6427
reprocessing of, pilot plant studies of, 22:45146 (NP-17588)
reprocessing of, pilot plants for, 22:4231(R) (IN-1087)
reprocessing of, plant at Moncloa, Spain for, 22:33546
reprocessing of, plant at Rotondella for, 22:6428
reprocessing of, plutonium and uranium determination in dissolver solutions in, 22:22932 (NP-17233)
reprocessing of, plutonium and uranium recovery in Eurochemic, 23:11603 (NP-17740)
reprocessing of, plutonium recovery in, 23:13839
reprocessing of, potentiometric determination of fluorine in solutions from Eurochemic, 23:24284
reprocessing of, problems in pilot plant design for volatility, 22:6423
reprocessing of, processing and storage of waste from, 23:9532
reprocessing of, purification and recovery of TBP after, 22:6434(P)
reprocessing of, pyrochemical, 23:9499(T) (ANL-Trans-702)
reprocessing of, Rapsodie plant for, 22:37823(T) (ANL-Trans-619)
reprocessing of, recovery of neptunium-237 in plants for, 23:17506(T) (AEC-tr-7028, pp 131-53)
reprocessing of, recovery of uranium as uranium dioxide in, 24:27200(P)
reprocessing of, remotely operated equipment for analysis of solutions from Eurochemic, 22:40030
reprocessing of, research at Eurochemic extraction-evaporation pilot plant on, 22:6422
reprocessing of, research on fluoride volatility process for, 22:40156(R) (EURAEC-2031)
reprocessing of, research on fluoride volatility process for, 22:40158(R) (K-L-1780(Pt.25))
reprocessing of, research on sol-gel process for, 23:4716 (RT/CHI-(68)28)
reprocessing of, research on volatility techniques for, 22:6384
reprocessing of, research progress on, 22:2173(R) (K-L-1780(Pt.21))
reprocessing of, research progress on, 22:4231(R) (IN-1087)
reprocessing of, research progress on, 22:27856(R) (K-1738)
reprocessing of, research progress on, 22:12404 (ORNL-4094, pp 19-27)
reprocessing of, research progress on, 22:37837(R) (K-1744)
reprocessing of, research progress on aqueous methods for, 22:37823(T) (ANL-Trans-619)
reprocessing of, research progress on fluoride volatility process for, 23:9509(R) (K-1769)
reprocessing of, review of, 22:148
reprocessing of, review of corrosion problems in, 25:55390
reprocessing of, review of developments in aqueous, 22:149
reprocessing of, review of European developments in, 23:15933
reprocessing of, review of experience in France in, 23:13815 (CEA-CONF-1178)
reprocessing of, review of nonaqueous methods in France for, 22:35890
reprocessing of, review of solvent stability in, 22:18865 (ORNL-4212)
reprocessing of, ruthenium decontamination in TBP process for, 22:16677
reprocessing of, safe uranium-235 enrichments in Purex facility for, 23:9500 (ARH-407)
reprocessing of, safeguards capabilities of materials accounting systems in facilities for, 25:54968 (IAEA-R-878-F)
reprocessing of, safety analysis of neptunium recovery facility at West Valley Plant for, 22:33479 (DOCKET-50201-1)
reprocessing of, safety analysis of Nuclear Fuel Services, Inc., plant for, 22:18862 (DOCKET-50201-2)
reprocessing of, safety analysis of West Valley Plant for, 22:33480 (DOCKET-50201-4)
reprocessing of, semiworks program on, 22:23099(R) (K-L-1780(Pt.23))
reprocessing of, shear-leach and grind-leach techniques in, 22:27865 (ORNL-4204, pp 46-51)
reprocessing of, shear-leach method of preparation for, 22:149
reprocessing of, short-residence extractors for reducing solvent degradation in, 22:30648 (NP-17366)
reprocessing of, solvent extraction contactor for, 22:47205 (ORNL-TM-2290)
reprocessing of, specifications of methods and plants for, 23:45381
reprocessing of, stability of tributyl phosphate in Purex process for, 22:18873(T) (ORNL-tr-1901)
reprocessing of, stacked-clone contactor for solvent extraction in, 22:37838 (ORNL-4267)
reprocessing of, studies on, 22:42813(R) (K-L-1780(Pt.26))
reprocessing of, systems analysis and conceptual plant studies for, 22:2173(R) (K-L-1780(Pt.21))
reprocessing of, technical progress review on, 22:7983
reprocessing of, technical progress review on, 22:25172
reprocessing of, technical progress review on aqueous, 22:33529
reprocessing of, techniques and efficiency of Eurochemic plant for, 22:33506
reprocessing of, testing of stacked-clone contactor in solvent-extraction, 22:14562 (ORNL-4139, pp 4-18)
reprocessing of, thermodynamics of fluoride volatility techniques for, 23:17511 (BLG-429)
reprocessing of, treatment of degraded tridodecylamine in, 23:17505(T) (AEC-tr-7028, pp 97-130)
reprocessing of, treatment of medium-level waste from Eurochemic, 22:23100 (NP-17234)
reprocessing of, Trisaia facility for, 22:33547
reprocessing of, tritium tracing of stack effluent from, 23:38114
reprocessing of, uranium accounting in Eurochemic plant for, 23:2377 (NP-17640)
reprocessing of, use of analytical methods in automatic control of, 22:47211
reprocessing of, use of bromine pentafluoride in fluoride volatility, 22:42806 (ANL-7412)
reprocessing of, use of fluoride volatility techniques in, 22:8175(T) (ANL-Trans-544)
reprocessing of, use of liquid-liquid extraction in, 22:30655
reprocessing of, use of tetravalent uranium as plutonium reductant in Purex Process, 23:11604 (NP-17741)
reprocessing of, ventilation filter reclamation at Hanford Purex Plant for, 22:45139 (ARH-SA-9)
reprocessing of, vitrification of waste solutions from, 23:17507(T) (AEC-tr-7028, pp 154-98)
reprocessing of, volatility method for, 22:25476
reprocessing of, volatility processes for, 22:23106
reprocessing of, Windscale pilot plant for, 22:6421
reprocessing plant for, performance of krypton-85 monitor in, 22:14613
reprocessing techniques for THTR, effects on fuel cycle costs of various, 23:21445
requirements and supply assessment for, in Federal Republic of Germany, 25:51552 (A/CONF.49/P-378)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research on, 24:257(R) (ANL-7575)
response of axially-restrained mixed oxide, during severe transients, 23:43116(R) (GEAP-10028)
response of axially-restrained mixed oxide, during severe transients, 23:37506(R) (GEAP-5677)
response of axially-restrained mixed oxide, during severe transients, 23:37507(R) (GEAP-5700)
response of axially-restrained mixed oxide, during severe transients, 23:43115(R) (GEAP-5753)
response of axially-restrained mixed oxide, during severe transients, 24:4058(R) (GEAP-10028-31)
restrainers for support grid of assemblies of parallel spaced rod type, description of, 24:18791(P)
rod cluster assembly joining in, methods for, 23:21565(P)
rod cluster design for BONUS, 21:27677 (GEAP-5262)
rod positioning grid design for assemblies of, 23:17672(P)
rolling of aluminum—uranium oxide, causes of blistering in, 24:17345 (ORNL-4480, pp 213-44)
roughness of, effects on reactor performance of, 21:38491
rupture during rapid excursions, analysis of, 21:38703
rupture in ORNL HFIR, hypothetical analysis of, 21:23724 (ORNL-3573)
rupture of, development of system for detecting, 24:9706 (CEA-CONF-1366)
rupture of, device for fission product monitoring in coolant after, 23:643(P)
rupture of, fission product activity following, 24:16215 (CEA-CONF-1435)
safeguards inspection of, reactivity measurements in critical assemblies for, 24:16240 (KFK-1040)
safeguards inspection procedures for unirradiated MTR-type, 22:42393 (RISO-M-732)
safety analysis of NaK cooled plutonium carbide (PuC)—uranium carbide (UC), 24:36066 (KFK-1143)
safety analysis of plutonium, 25:3901 (ANL-7442)
safety analysis of Saxton Zircaloy-4 and stainless steel clad test, 23:17213 (DOCKET-50146-8)
safety analysis of Type 316 stainless steel clad plutonium carbide (PuC)—uranium carbide (UC) pin type, 24:46045 (WARD-3791-33)
safety gas coolant for thermionic, description of melting plug released, 24:24899(P)
safety of plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of effects of molten fuel movement on, 22:25083(R) (GEAP-5541)
salvage of rejected uranium, by double forging, 24:2897(R) (RMI-13)
sampling for isotope distribution after high in-pile exposure, 23:48573(R) (GEAP-5702)
scanner for, design of control system for, 21:36396
sealed pin-type, description of pressure-equalizing fission-product-removing interconnected vent system for, 23:17290(P)
sealing in tubular can, design of quick action hermetic closure for, 23:31456(P)
sealing of tube-clad pin-type, description of shock wave-crimped and welded plug for, 23:2146(P)
sealing plug for, design of fusible, 24:2362(P)
sealing thermocouples in clad, methods for, 22:12995(P)
seals for, description of fuel channel piston ring-type retaining, 23:9247(P)
separation of cesium-137 from spent, by ion exchange using tin phosphate, 21:32236
separation of graphite from, electrolytic process for, 25:246
separation of isotopes from spent power, economic aspects of, 24:9609
separation of plutonium and uranium from irradiated, by solvent extraction, method for, 25:13101(P)
separation of plutonium and uranium from spent fast-breeder, 21:25935(R) (ANL-7225)
separation of plutonium from irradiated, 21:30345(R) (IN-1063)
separation of plutonium from spent, by solvent extraction, 22:33507
separation of uranium from zirconium-clad, process for, 21:3157(P)
sheath closure for pin-type, description of, 22:18621(P)
sheath fabrication for, flange cutting machine tool for, 21:28143(P)
sheath for, design of tapered finned, 21:19829(P)
sheaths for, apparatus for cutting finned, 21:19826(P)
sheaths for, design of apparatus for corrugating sets of fins on, 22:8281(P)
sheaths for, design of finned, 21:26058(P)
sheaths for, design of finned, 21:26059(P)
sheaths for, design of heat-transfer, 21:30312(P)

shield plugs for, design of re-usable, 21:46958
shielded containers for, description of sealed top loaded multiple rod, 23:24051(P)
shipment from Juelich research reactors, administrative and legal problems of, 24:36766 (JUL-603-ST, pp 119-28)
shipment of HNPF spent, 23:23810 (AI-AEC-12744, pp 149-52)
shipment of irradiated LMFBR, for reprocessing, 23:21781(R) (ORNL-TM-2552)
shipping and storage of irradiated, design of container for, 24:16823(P)
shipping and transportation of, safety standards for, 21:46902
shipping cask design criteria for spent, 22:27416(R) (ORNL-4228)
shipping cask for, design and testing of, 21:22110
shipping casks for irradiated, development of design criteria for, 22:7816(R) (ORNL-TM-2057)
shipping casks for irradiated, heat transfer in, 21:30669
shipping casks for, design analysis for, 21:46906
shipping container design for, 21:15801(P)
shipping container for irradiated, design and testing of laminated steel plate, 23:581 (CONF-681001-, pp 464-76)
shipping container for irradiated, design of, 21:12564(P)
shipping container for irradiated, method for calculation of temperature of steel, 25:26441 (AECL-3802)
shipping container for spent, design of thermally protected, 23:11746(P)
shipping container for spent, shielding calculations for, 21:30672
shipping container for unirradiated, design and standards for, 23:17734
shipping container for unirradiated, design and testing of, 24:16821
shipping container for uranium, design, fabrication, and testing of, 22:30810 (KY-546)
shipping container for, calculation of lead—steel shielding thickness for, 23:33366 (ORNL-TM-2591)
shipping container for, design and fabrication of laminated uranium, 23:24414 (KY-550)
shipping container for, design, fabrication, and testing of, 23:17730 (KY-552)
shipping containers for spent, design guide for, 23:11740 (ORNL-TM-2410)
shipping containers for spent, guide for design, fabrication, and operation of, 24:14227 (ORNL-NSIC-68)
shipping containers for, advantages and economic aspects of laminated uranium, 22:45264 (KY-D-2554)
shipping containers for, design and fabrication of laminated depleted uranium, 22:45265 (KY-F-96)
shipping containers for, testing of laminated uranium for, 22:45263 (KY-D-2553)
shipping costs by rail and truck for spent, 22:2321 (GAMD-7979)
shipping of Bonus spent, modification of ATCOR container for, 23:35446
shipping of BONUS, design and safety analysis of end-loading container for, 23:578 (CONF-681001-, pp 426-37)
shipping of Borax V, design and safety evaluation of container for, 25:48878 (DPSPU-71-124-5)
shipping of Chinon, calculation of thermal cooling of container for, 23:45492(T) (ORNL-tr-2189)
shipping of dissolver samples of, safety evaluation of New Brunswick Laboratory Sample Cask for, (T), 25:26450 (ORNL-TM-3298)
shipping of HNPF spent, design and fabrication of shielded containers for, 23:585 (CONF-681001-, pp 584-606)
shipping of irradiated clad uranium dioxide, design of container for, 25:57703 (DPSPU-71-124-4-A)
shipping of irradiated Garigliano Power Reactor, equipment and methods for, 23:29121
shipping of irradiated HNPF, design and structural integrity of container for, 23:586 (CONF-681001-, pp 607-23)
shipping of irradiated plutonium-containing, design requirements of containers for, 25:39690
shipping of irradiated solid, design of containers for, 21:45326
shipping of irradiated, design criteria for containers for, 23:567 (CONF-681001-, pp 268-77)
shipping of irradiated, design of casks for, 21:30660 (JAERI-4039)
shipping of irradiated, design of container for, 25:44568 (LA-4686)
shipping of irradiated, design of container for, 22:49049
shipping of irradiated, design of shock-resistant steel container for, 25:34858(P)
shipping of irradiated, design of Type B packages for, 25:48870 (CONF-710801-(Vol.2), pp 995-1006)
shipping of irradiated, design of variable configuration container for, 23:19925(P)
shipping of irradiated, economic evaluation of containers for, 23:16073
shipping of irradiated, fire and impact testing of SG cast iron and wood-insulated containers for, 23:574 (CONF-681001-, pp 354-72)
shipping of irradiated, from Garigliano and Latina power stations to Windscale, design of container for, 23:33369
shipping of irradiated, from Latina Nuclear Power Plant to Eurex Reprocessing Plant, equipment and method for, 24:19188
shipping of irradiated, from light-water reactors, neutron shielding requirements of containers for, 25:39692
shipping of irradiated, from power reactors, requirements in 1970's for,. 23:563 (CONF-681001-, pp 210-21)
shipping of irradiated, heat transfer in cylindrical containers for, (E/T), 23:571 (CONF-681001-, pp 306-19)
shipping of irradiated, in Great Britain, review of technical problems in, 21:23654
shipping of irradiated, insurance requirements for, 24:13578
shipping of irradiated, insurance requirements for, 24:13531
shipping of irradiated, regulations for, 21:24188
shipping of irradiated, regulations for railroad, 22:298
shipping of irradiated, safety planning for, 24:20968 (KFK-666)
shipping of irradiated, safety planning for, 24:39176(T) (ORNL-tr-2348)
shipping of irradiated, safety studies of, 24:415 (ORNL-4422, pp 322-4)
shipping of irradiated, safety studies of casks for, 21:45324 (ORNL-4145, pp 303-8)
shipping of irradiated, standards for design and operation of containers for, 25:29321
shipping of Ispra, design and thermal testing of container for, 22:47269
shipping of LMFBR and LWR, neutron shielding requirements for containers for, 24:31670
shipping of plutonium-based, development of containers for, 23:584 (CONF-681001-, pp 569-83)
shipping of single spent Peach Bottom, safety evaluation of container for, 25:44566 (GAMD-8894)
shipping of spent Bonus, design of 30 ton ATCOR container for, 24:41639 (K-L-6232)
shipping of spent light water, design and fabrication of 30-ton container for, 23:589 (CONF-681001-, pp 663-72)
shipping of spent, cask design for, 22:36021(P)
shipping of spent, design and operation of equipment for, 23:17735
shipping of spent, design and testing of container for, 25:48843 (CONF-710801-(Vol.2), pp 603-14)
shipping of spent, design of container for, 22:12564
shipping of spent, design of container for, 24:472
shipping of spent, design of container for intrasite, 24:473
shipping of spent, design of container using bismuth—cadmium—lead—tin alloy coolant for, 23:40976(P)
shipping of spent, design of fire and shock resistant container for, 22:51210(P)
shipping of spent, design of shielded container for, 25:10801(P)
shipping of spent, design parameters of shielded containers for, 25:48869 (CONF-710801-(Vol.2), pp 990-4)
shipping of spent, drop impact testing of shielded containers for, 25:48852 (CONF-710801-(Vol.2), pp 727-39)
shipping of spent, drop-impact testing of lid-fixing screens for containers for, 25:51841
shipping of spent, effects of coolant losses and finned surfaces on heat removal from containers for, 25:51828
shipping of spent, evaluation of metal seal criteria for container closures for, 25:48844 (CONF-710801-(Vol.2), pp 615-33)
shipping of spent, fire resistivity of shielded containers for, 25:48860 (CONF-710801-(Vol.2), pp 833-45)
shipping of spent, from French power reactors, research on equipment and methods for, 25:51752 (A/CONF.49/P-611)
shipping of spent, from HNPF to Savannah River Plant, design of container for, 23:2549
shipping of spent, in Japan, drop-impact testing of containers for, 25:51837
shipping of spent, in Japan, equipment and methods for drop-impact testing of containers for, 25:51838
shipping of spent, safety evaluation of PM-3A-M containers for, 25:44565 (DPSPU-71-124-3)
shipping of spent, scale-model drop-impact testing of Excellox and Magnox containers for, 25:51839
shipping of spent, shielding requirements and testing of containers for, 25:48846 (CONF-710801-(Vol.2), pp 652-63)
shipping of spent, state of the art in, 25:48830 (CONF-710801-(Vol.1), pp 415-36)
shipping of spent, testing of containers for safe, 25:37561 (CONF-700211-6)
shipping of unirradiated bundles of Candu-type, design and testing of packaging for, 25:26442 (AECL-3803)
shipping of unirradiated power, design and testing of packaging for, 25:48863 (CONF-710801-(Vol.2), pp 873-85)
shipping of unirradiated, design of BNW Model 10 container for, 25:29318
shipping of, air cushion support for highway, 25:48872 (CONF-710801-(Vol.2), pp 1015-27)
shipping of, criticality safety evaluations of containers for, 25:48858 (CONF-710801-(Vol.2), pp 803-21)
shipping of, criticality safety in design of container basket for, 23:35444
shipping of, design of container for, 23:593 (ORNL-4272, pp 249-55)
shipping of, design of container for, 23:47728(P)
shipping of, design of container for, 25:13187 (BNWL-1512)
shipping of, design of depleted uranium shielded container for, 23:19923 (KY-551)
shipping of, design of lead shielded casks for, 22:291
shipping of, design of shielded container for, 25:13205(P)
shipping of, review of East German regulations for, 25:8454 (SZS-14/70 (pp 11-21))
shipping procedure for spent, at MIT Research Reactor, 21:35741
shipping-cask criteria for transportation of, development of, 21:25689
shock absorber for gas cooled heavy water moderated power, description of stress failing flared sleeve, 23:45090(P)
shock absorber for, description of interference-fit plug and vertical tube, 23:21578(P)
shock absorbers for, description of impact disc penetrated by varying dimension cylinders for, 22:25165(P)
simulation of boiling and superheating reactor double-side-cooled tubular, mathematic, (T), 23:9168
simulation of, design and fabrication of electrically heated rods for, 24:47985
simulation of, performance of molybdenum filaments as heating elements in, (E/T), 24:47867 (GEAP-10092)
simulators for liquid sodium cooled, design parameters and performance of cartridge type electrical heater, 25:6029
sintering plutonium, equipment for, 23:18200
size measurement of plutonium-containing pellet-type, equipment and method for automatic, 25:315
size measurement of rod-type, equipment and method for automatic, 25:315
sleeves for, description of brittle cylindrical reinforced, 22:16334(P)
sodium removal from cladding for, effectiveness of methods for, 23:11688 (BNWL-SA-2198)
sodium removal from sodium-bonded stainless steel-clad mixed carbide, 23:412
sorption effects of aluminum cladding on uranium, 21:45965
spacer arrangement in rod bundle type, to minimize thermal and fission gas loads on cans, 22:6183(P)
spacer assembly with springs supported by two rigid polygonal mesh grids, description of, 23:9246(P)
spacer design for finned, for heterogeneous gas-cooled reactors, 22:1836(P)
spacer design for improved stability and coolant flow, 21:19509(P)
spacer design for, effects on coolant swirling of, 22:1895(P)
spacer for pin type, description of spiral wound hollow tube, 25:39354(P)
spacer for pin type, description of three point lobe and tab, 23:40483(P)
spacer frame for, with zigzag wire matrix, 23:37796(P)
spacer grid design with corrugated sheet metal strips at contact points, 24:50252(P)
spacer grid for cluster pin type, design of triangular metal, 24:36094(P)
spacer grid for clusters of pencil type, description of cylinder shaped, 25:37152(P)
spacer grid for gas cooled reactor, static aeroelasticity of, (E/T), 24:2002
spacer grid for, with two rigid and one resilient contact points, 23:37797(P)
spacer grids for fast, design and testing of honeycomb, 25:48355
spacer grids for gas cooled, static aeroelasticity of, (T), 23:43121
spacer grids for rod bundles of, drag coefficients for, (E/T), 24:24829
spacer grids for sodium cooled, effects of wear and friction on, (E), 25:44087(T) (EURFNR-854)
spacer grids in pins for, design of fasteners for, 21:38802(P)
spacer supports for, design of stainless steel, 21:46926(P)
spacer system for FTR, hydraulic, mechanical, and thermal aspects of wire-wrap, (E/T), 23:6019 (BNWL-750)
spacer tubes for fast breeder, performance of Incoloy 800 helical fin, 24:26769(T) (EURFNR-721)
spacer-projections for, methods for fabrication of, 21:12240 (WAPD-TM-580)
spacers for boiling reactor bundle-type, description of right angle four point leaf spring and stop, 23:21498(P)
spacers for bundles of rod type ceramic, design configurations of, 25:31678(P)
spacers for cluster arranged graphite moderated gas cooled, description of annular, 24:26781(P)
spacers for cluster arranged parallel pencil type, description of parallel metal strip, 24:20649(P)
spacers for cluster arranged pin type, 25:39356(P)
spacers for cluster arranged pin type, description of transverse grid, 24:53002(P)
spacers for cluster arranged rod type, description of, 24:4065(P)
spacers for cluster arranged rod type, description of inclined cell, 24:4180(P)
spacers for cluster arranged water cooled, description of leaf spring retained annular, 24:26783(P)
spacers for clustered, design of, 23:38144(P)
spacers for fast steam-cooled hexagonal, analysis of optimum design parameters for spiral-shaped, 23:17186(T) (EURFNR-571)
spacers for fast, hydrodynamic and thermodynamic tests of, 25:48356
spacers for gas-cooled, static aeroelasticity of, (E/T), 24:11194
spacers for hexagonal arranged rod type, description of torsion bar and spring finger, 24:50256(P)
spacers for HFIR-type, heat transfer and flow tests for experimental aluminum wire-type coolant channel, 23:2133 (ORNL-TM-2332)
spacers for liquid metal cooled rod type bundle, effects of configuration on pressure drop across, 24:52918
spacers for liquid metal cooled rod type, effects on heat transfer and fluid flow of, 25:31568(T) (EURFNR-823)
spacers for liquid sodium cooled bundle type, design of, 24:46048
spacers for multiple metal-clad rod-type, description of hairpin- and crank-shaped spot-welded flexible wire, 22:42567(P)
spacers for multiple parallel rod type, description of upper and lower square lattice grids with strip spring, 23:37808(P)
spacers for multiple parallel rod type, description of square lattice intersecting strip spring, 23:40492(P)
spacers for multiple vertical-arranged assemblies of rod-type, description of outward-bent four-sectioned cylinder-shaped, 23:15741(P)
spacers for parallel arranged pin type, description of strip shaped grid, 24:26841(P)

spacers for parallel elongate, description of cellular arranged sinuous strip, 23:40479(P)
spacers for parallel rod type, description of honeycomb arranged hexagonal grid with three equiangular projection type, 23:40481(P)
spacers for parallel rod type, description of longitudinal opposing rigid and double strip spring, 23:40482(P)
spacers for parallel rod type, description of spring separated tube type, 23:40480(P)
spacers for parallel rod type, design of opposing wedge shaped, 24:36098(P)
spacers for parallel tube type, description of interconnected transverse longitudinal row arranged circular shaped, 23:37826(P)
spacers for power, description of continuous ring, 25:10224(P)
spacers for rod type, description of rigidly fixed grid, 23:37842(P)
spacers for rod-type, description of right angle strip springs for polygonal ring, 23:21582(P)
spacers for sodium cooled, pressure drop and temperature profile effects of grid or helical type, (E/T), 24:26773 (KFK-1154)
spacers for square lattice, description of spring-braced parallel circular rod, 22:16332(P)
spacers for, configuration of zirconium alloy support and divider means and Inconel spring assemblies as, 25:23416(P)
spacers for, description of spring separated dual rigid grid, 23:43224(P)
spacers for, design and fabrication of large quantities of, 23:11704(P)
spacers for, design of bored plate, 23:11699(P)
spacers for, design of helical tangential spring, 25:10332(P)
spacers for, development and fabrication of, 24:24843
spacers for, formation of bulges in cladding for, 25:44218(P)
spacers for, method for fabrication of zirconium alloy, 25:40006(P)
spacers for, method for securing ends of wire-wrap, 25:54306(P)
spaces for bundles of rod type, design characteristics of wedge shaped core expanding, 25:60255(P)
spacing in assemblies, design of device for continuously-changing, 23:26429(P)
spacing of fast breeder, effects on coolant turbulence, flow velocity, and temperature distribution of, (T), 24:18652 (KFK-964, Sect. 5.1-12)
spacing of parallel, design of grid for, 23:35374(P)
specific heat of LOFT, experimental and analytic determination of, 21:30146(R) (IDO-17213)
specific power distribution in boron oxide (B_2O_3)—uranium oxide (UO_2) and uranium oxide (UO_2), measurement of, 22:37542 (RT/FI-(68)13)
springs for zirconium alloy plugged tube type, description of chromium coated helical, 23:40463(P)
stability analysis using equation of motion for parallel-plate, 21:34138
stability in coolant flows, hydrodynamic, 21:7962
stability of clad iron—urania, at high temperatures, 21:9049 (GEMP-61, pp 93-104)
stability of flat plate, effects of high velocity gas coolant flow velocity in mechanical, 24:43765 (NP-9981)
stability of IFA-14, 21:31943(R) (NP-16803)
stability of MTR type, effects of self-excited vibrations on static and dynamic hydroelastic, (E/T), 23:23980
stability of plate, hydroelastic, 21:44889
stability of refractory metal-clad uranium dioxide, testing of dimensional and thermal, 24:14892 (GEMP-1013, pp 43-51)
stability of uranium-base, with chromium, germanium, and zirconium additives, 21:24745(P)
stability of, coolant flow effects on, 21:19495 (ANL-7261)
stability system for assemblies of, description of ascending coolant flow activated ball-and-groove, 22:25184(P)
stabilizer for gas cooled stringer type, description of annular metal brush seal, 25:1893(P)
stacking in cooling channels, description of vibration stabilizing end member for, 23:37770(P)
standards for Zircaloy clad uranium oxide (UO_2), for pressurized water reactors, 25:57049 (RDT-E-13-15-T)
standpipe plugs for gas cooled, description of pressure equalizing locking, 25:54107(P)
steady-state temperature in and around simulated, buried in soil, 21:10591 (IN-1032)
steady-state thermal stresses in, effect of axial variation in internal heat generation rate on, 21:19835 (ANL-7263)
stoichiometry shift in mixed uranium oxide (UO_2)—plutonium oxide (PuO_2), effects of burnup on, (E/T), 25:28690(T) (EURFNR-836)
storage and transport of spent, shielding of container for, 21:26136
storage at Eurex, design of pool for, 25:23725(R) (EUR-4604)
storage facilities for FFTF irradiated, requirements for, 23:11277 (BNWL-909)
storage in aqueous solutions, 23:18180(T) (ANL-Trans-703, pp 9-44)
storage in aqueous solutions of magnesium oxide or sodium carbonate, 22:26026 (CEA-N-616, pp 106-44)
storage in water of spent, criticality calculations for, 22:33183
storage magazine for, description of coolant-filled cylindrical-shaped radial-arranged telescoping-arm-loaded, 23:9260(P)
storage of EDF-type, in sodium carbonate solution containing sodium hydroxide, 25:6830 (CEA-N-1341, pp 129-220)
storage of high temperature gas-cooled spent, economics of, 21:46852 (GAMD-7994)
storage of irradiated, calculation of time limits for dry, 25:46288 (AECL-3854)
storage of irradiated, design of facility for, 21:5732(P)
storage of irradiated, in aqueous solutions of magnesium oxide, 22:26026 (CEA-N-616, pp 106-44)
storage of irradiated, in water, methods for determining safe spacing for, 25:4285
storage of liquid sodium cooled fast, review of problems in, 23:47151 (ANL-7520(Pt.2), pp 3-19)
storage of spent HTGR, facilities for interim, 23:47721 (GAMD-9272)
storage of spent HTGR-type, methods for long-term, (T), 25:20745 (DP-Report-450)
storage of spent, cooling pond and transfer facility for, 22:20968(P)
storage of spent, in salt mines, 23:17735
storage of spent, safety evaluation of ICPP facilities for, 25:44567 (IN-1465)
storage of, standards for, 24:44225 (CEA-N-1291)
storage of, three-dimensional Monte Carlo code for criticality problems in, 22:10079 (NAA-SR-Memo-12490)
storage pool for, liner design for, 22:12494
storage pool for, with means for avoiding thermal shock and fission product release, 22:20968(P)
storage systems for pressurized water reactors, description of, 24:29097
storage tanks for spent, development of fiber glass reinforced epoxy liner for, 25:15412
strains in ATR plate type, pressure induced and thermal, 23:52407 (IN-1303)
strength of composite uranium aluminide and uranium oxide, 23:8273 (ORNL-4370, pp 101-15)
strength of spherical, requirements for impact, (E), 25:46339 (EUR-4360)
stress analysis in, conference on methods for, 25:54050
stress analysis of cylindrical, computer program for transient, 21:8135
stress analysis of ETR H12 aluminum clad intermetallic UAl_3, 24:7182
stress analysis of involute-shell shaped, 23:43472 (ANL-7493)
stress analysis of mixed oxide water cooled breeder, CYGRO-3 computer program for, 24:36032 (WAPD-TM-961)
stress analysis of pressurized-water reactor type 304 stainless steel-clad enriched uranium oxide (UO_2) pellet-type, 22:30165(R) (WCAP-3706)
stress analysis of, synthesis methods for, 21:34170 (WAPD-TM-694)
stress and strain analysis of cylindrical, under pressure, CYGRO-2 computer code for, 21:14114 (WAPD-TM-547)
stress distribution in rod-type, mathematical model for determining compressive, 22:42160(R) (BMI-1844)
stress distribution in smooth and fin clad rod type, effects of thermal neutron flux peaking on thermal, (T), 23:24046
stress from cladding and fuel interaction in, exact analysis of local non-plane elastic, (T), 24:33560
stress in cylinder shaped fast, effect of design parameters on, (T), 25:20732 (AERE-R-6516)
stress in cylindrical fast, methods for calculation of radial, (T), 25:48354
stress in long cylindrical, infinite series method for determination of, 22:12523
stress in operating oxide rod type, CYGRO-3 model for, 24:33332
stress in oxide rod type, effects of power transients on, (T), 24:33333
stress in Type 316 stainless steel-clad oxide fast, computer calculation of, 25:27285
stress limits for coated particle uranium oxide (UO_2), (E), 25:1889 (RD/B/N-1622)
stress transients in cylinder shaped rod, computer program calculation of, 25:31670 (ORNL-TM-3293)
stresses in ATR plate type, pressure induced and thermal, (T), 23:52407 (IN-1303)
stresses in circular cylinder, effects of temperature transients on quasi-static thermal, (T), 23:24042
stresses in fast-pulsed cores of, calculation of dynamic, (T), 22:20918
stresses in homogeneous spherical, analysis of transient thermoelastic, 25:51104
stresses in liquid metal cooled clusters of rod, effects of rod spacing on, 25:54115
stresses in metal clad oxide, CYGRO-3 code for analysis of in-pile, 25:51101
stresses in multiregion cylindrical, analysis of transient thermal, (T), 23:24044
stresses in pulsed, mathematical analysis using distributed and lumped mass models, 23:26406 (PR/OP-58)
stresses in simulated superheat reactor, measurement of, 22:6046
stresses in, use of sagging bar method for determination of, 22:15199
stresses on pulsed reactor bolted assembly of, analysis of thermoelastic, 22:3912
stresses on, effects on economics of temperature-induced surface, 22:32773 (KFK-700(Pt. VII))
stresses on, effects on economics of temperature-induced surface, 22:53273(T) (EURFNR-472)
stringers for, description of slotted nut for locking in place of, 25:46347(P)
stringers of cluster type, description of tubular wire rope connectors for, 25:15415(P)
structural changes in depleted Shippingport blanket, 21:12181
structure of dispersion plate-type, thermal cycling tests for studies of, 25:27251
subassemblies of, design of instrumented, 22:7788(R) (ANL-7382)
substitution in organic moderated lattices, measurement of effects of, 22:50816
supply of light water power reload, information required from utilities for bids for, 23:28387
supply of light water power, evaluation of purchase options and warranties for, 23:28384
support assembly design for, 21:25695(P)
support assembly design for, 21:30223(P)
support cables for vertical rod type, description of electrical lead carrying flexible, 24:9170(P)
support design for, 23:21566(P)
support device for stacked, description of spring-loaded, 22:42518(P)
support device in vertical coolant channel for, description of releasable, 22:42523(P)
support for assemblies of gas-cooled fast, description of open-end box, 22:16244(P)
support for cartridge-type, design of self-centering, 23:35377(P)
support for cluster arranged rod type, description of interlocking rotation preventing, 24:29099(P)
support for cluster arranged rod type, description of nonbowing flexible helical strip interconnected annular, 23:40477(P)
support for graphite sleeve annular, description of cylinder centered metal tie rod, 24:26843(P)
support for graphite sleeve annular, description of cylinder centered stirrup shaped metal, 24:26844(P)
support for multiple vertical parallel, description of horizontal center aligned bearingplate, 23:37820(P)
support for rod-type, description of plugged flexible-tube, 23:7432(P)
support for tube type, description of longitudinal groove interlocking star shaped, 23:37835(P)
support for, description of graphite seat three-arm extension, 22:20960(P)
support for, design of grid-type, 23:35378(P)
support grid design for rod spacing in various lattice configurations, 23:40500(P)
support grid for bundle-type assemblies of multiple parallel tube-shaped, description of bent-wall blade-spring-retained square lattice, 23:19601(P)
support grid for reduced-diameter neck, description of, 22:20958(P)
support grid for water-cooled, description of groove-cut drain in, 23:7431(P)
support grid for, description of multiple layer interconnected three-directional parallel vertical-edge strips in hexagonal, 22:48771(P)
support grid for, design of parallel flat strip-type, 25:46345(P)
support grids for, description of multiple parallel four-sided spring-braced, 22:48773(P)
support grids for, description of three equi-spaced barrel-shaped lobes for spacing in symmetric saucer-shaped, 22:37603(P)
support grids for, effects of rod ovality and diameter change on dimple spacing of, (T), 25:10167 (WAPD-TM-714)
support members for, description of vibration damping lateral, 23:37833(P)
support structure design for, box-shaped, 21:38805(P)
support structure for assemblies of multiple parallel sheathed rod-type, description of strip-formed web-type, 22:42427(P)
support structure for boiling reactor, description of square lattice helical twist, 22:20886(P)
support structure for, description of disc mounted vertical cylindrical sleeve, 22:18655(P)
support structure for, description of four graphite bars symmetrically separated for, 22:16333(P)
support structure for, description of grid-type, 22:42459(P)
support structure for, design of, 23:35370(P)
support structure for, design of, 23:35368(P)
support structure for, Rayleigh-Ritz energy method analysis of stress in, 22:37563
support structure of fast, description of varying thermal expansion materials in, 24:11198(P)
support structures for FBRF, thermal shock of, 21:10205
support structures for parallel rod, description of grid type, 24:26839(P)
support structures for, description of concentric tubular, 22:42430(P)
support structures for, PIPEC computer programs for stress and deformation in, 23:4464 (RT/ING-(68)12)
supports for fast reactor, in upward coolant flow, design of overhead, 22:1839(P)
supports for herringbone finned annular, description of cylindrical by arranged flat vertical plate, 23:37834(P)
supports for positioning within core of, description of retractable strut-type, 22:42448(P)
supports for, design of, 21:35642(P)
supports for, design of, 22:10939(P)
supports for, design of anti-vibration, 21:35784(P)
supports for, design of flexible, 21:35642(P)
supports for, design of graphite, 21:46982(P)
supports for, diffusion creep deformation in magnesium-alloy, 21:9173
supports in outer annular jacket, process for assembly of pin connected, 24:29098(P)
supports of, description of coolant freezing and melting device for plugs for, 22:37601(P)
surface appearance of, design of slit camera for inspection of, 21:6364
surface area determination for neutron resonance integral calculations, 22:3924 (AECL-2775)
surface contamination of, coolant water sampling for evaluation of, 23:15812 (KURRI-TR-3)
surface contamination of, ionization detector for measurement of alpha, 24:36586(P)
surface distortions on, design of device for detecting, 24:2351(P)
surface finishing of uranium monocarbide slug, for HWOCR, 21:36901 (AI-CE-48)
surface fouling of, in organic-cooled loops, 21:42812 (AECL-2654)
surface roughening of, evaluation for gas-cooled fast breeder reactors of, 22:35466 (KFK-689)
surface temperature of carbide, method for calculating, 24:46418 (TUBIK-18)
surface temperature of, determination of safety factor for, 23:52387(T) (JPRS-48331, pp 658-91)
swelling during coolant loss accidents, coolant channel reduction from, (E), 25:41463

swelling in pins type COMETHE II code for, (E/T), 24:46134
swelling in plutonium oxide (PuO$_2$)—stainless steel pellet-type, calculation of, 23:15673(R) (BNWL-541)
swelling in pressurized water reactors, effects on emergency core cooling system performance of, 25:41441
swelling in rod type, mechanical interaction with cladding from, (E), 23:52498
swelling models for, 24:23533 (BNWL-1279, pp 3.1-31)
swelling of, 22:4827
swelling of clad cylindrical, mechanical analysis of fission gas induced, (E/T), 23:34947
swelling of clad, effects of deformable inner bonding material on external, 24:39724(R) (BMI-1884)
swelling of cylinder shaped bulk oxide water cooled breeder, revised FIGRO computer program for, 24:29019 (WAPD-TM-618(Add.2))
swelling of EBR-2 Mark 1A, effects of power transients on high burnup, (E), 24:7177
swelling of EBR-II driver, at various burnup levels, 21:7971
swelling of fast reactor pin type, calculation methods for, 24:7122
swelling of fast reactor stainless steel-clad mixed-oxide pin-type, analysis of, 23:4242
swelling of fast, computer programs for determination of effects of, 22:53277 (KFK-539/2)
swelling of irradiated cylindrical, FIGRO computer code for analysis of, 21:14116 (WAPD-TM-618)
swelling of Mark-1A, effects of pressure on, 22:12006(R) (ANL-7399)
swelling of metal clad oxide, CYGRO-3 code for analysis of in-pile, 25:51101
swelling of mixed oxide fast, (E/T), 25:6001
swelling of mixed oxide fast, effects of fuel-clad interaction at startup on, (E/T), 25:6002
swelling of mixed oxide fast, model for initial thermal, (E/T), 25:6000
swelling of mixed oxide fast, nonsteady-state factors in models for, 24:38553
swelling of molybdenum—uranium, effects of burnup rate on, 23:40502
swelling of pin-type, effects on strains in cladding, 24:27757 (N-70-16239)
swelling of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), effects of fission gas release on, (E/T), 24:38552
swelling of rhenium—tungsten-clad oxide, at cladding surface temperatures of 1260 to 1900°C, 25:32798
swelling of sodium-cooled, mechanisms of, 23:30139 (GEAP-5683)
swelling of stainless steel clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), effects of burnup on, 22:25083(R) (GEAP-5541)
swelling of tungsten-dispersed uranium carbide, radiation effects on, 22:27396(R) (AI-AEC-12638)
swelling of uranium oxide (UO$_2$) fast, effects of burnup on, 25:53898 (A/CONF.49/P-460)
swelling of Zircaloy clad rod type, effects of coolant loss conditions on, 24:29038(R) (ORNL-TM-2919)
swelling of zircaloy clad rod type, effects of coolant loss conditions on, 24:4077(R) (ORNL-TM-2718)
swelling of Zircaloy clad rod type, effects of coolant loss conditions on, 23:33068(R) (ORNL-TM-2588)
swelling of Zircaloy clad rod, effects of coolant loss conditions on, 24:20581(R) (ORNL-TM-2829)
swelling of Zircaloy clad uranium oxide (UO$_2$), effects of coolant loss conditions on, (E), 25:41468
swelling of Zircaloy clad, effects on performance of emergency core cooling system of, 24:33373
swelling of, effects of fission product buildup on, 22:33100 (RT/ING-(68)4)
swelling of, effects of pressure on radioinduced, 22:30118 (ANL-7438)
swelling of, equation of state for xenon pressures in, (T), 25:41421
swelling of, model development for, 24:23502(R) (BMI-1830)
swelling pressure in fast breeder rod-type, methods for calculation at high burnup of, 25:47181
swelling rate and melting loss models for, analytical expression for, 22:33095 (KFK-700(Pt. V))
swelling rate and melting loss models for, analytical expression for, 22:53273(T) (EURFNR-472)
swelling studies on, 21:44861(R) (WCAP-3269-20)
temperature and power coefficients for, 22:16164 (WCAP-2785)
temperature calculation for surface of, 21:27734
temperature changes in plutonium oxide, molar enthalpy changes for, 22:30118 (ANL-7438)
temperature coefficients of reactivity for water-moderated plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), comparison of computer calculated and measured, 23:4340
temperature distribution at cladding—coolant interface during variable heat transfer, (T), 25:20706
temperature distribution at unsteady state in end caps and body of cylindrical, 21:27840
temperature distribution calculations for Tower Shielding Reactor-II, 21:42816 (ORNL-TM-1779)
temperature distribution calculations in defected, electrical analog method for three dimensional, 22:53466
temperature distribution in 3300 MW(t) boiling reactor, measurement of axial, 22:37402 (ANL-7450, pp 75-89)
temperature distribution in assemblies of fast breeder, effects of deformation and spacing on, 24:18652 (KFK-964, Sect. 5.1-12)
temperature distribution in Bohunice Power Reactor, ALGOL computer program for calculation of effects of control element insertion on, 23:43052 (UJV-2166-R)
temperature distribution in clad rod, effect of uneven heat transfer between fuel material and cladding on, (T), 25:31674
temperature distribution in cluster type assemblies of, calculations of, (T), 24:24917
temperature distribution in cooling channels of 61-rod, MISTRAL code for, (E/T), 25:1849(T) (ANL-Trans-858)
temperature distribution in cylinder shaped bulk oxide water cooled breeder, revised FIGRO computer program for, 24:29019 (WAPD-TM-618(Add.2))
temperature distribution in cylindrical low-density oxide, effect of internal geometry on radial, (T), 22:44825 (KFK-751)
temperature distribution in cylindrical or annular, computer program for calculating, 22:27486 (KAPL-P-3175)
temperature distribution in cylindrical rod-shaped, effects of compressible coolant on analytical determination of transient, (T), 23:2137
temperature distribution in cylindrical, computer program for, 21:8162
temperature distribution in cylindrical, use of Bessel function form of neutron flux distribution for calculating, 23:28610
temperature distribution in fast breeder liquid sodium-cooled reactor stainless steel-clad sodium-bonded mixed-carbide, effects of stationary fission gas bubbles on, (E/T), 23:15639 (CONF-680832-2)
temperature distribution in fast breeder, effect of internal geometry on radial, (T), 23:4217(T) (EURFNR-532)
temperature distribution in Fast Flux Test Facility, analysis of, 23:4300(R) (BNWL-880)
temperature distribution in fission product doped and undoped uranium dioxide pin-type, simulation study of, 25:47157
temperature distribution in gas cooled assemblies of, effects of rod arrangement on, (T), 25:46156 (ZJE-100)
temperature distribution in high temperature gas cooled pebble bed power, calculation of statistical, (E/T), 24:11323
temperature distribution in hollow graphite-matrix thorium carbide, effects of core power density on, 24:14163
temperature distribution in liquid metal cooled bundle arranged, effects of flow blockage on, (E), 25:34392(R) (ORNL-4647)
temperature distribution in liquid metal cooled bundles of rod type, 25:41537
temperature distribution in liquid metal cooled clusters of rod, effects of rod spacing on, 25:54115
temperature distribution in liquid metal-cooled, method for calculating, 25:26422
temperature distribution in liquid sodium cooled triangular rod cluster assemblies of, 24:24819 (EURFNR-750)
temperature distribution in liquid sodium cooled, microthermocouple measurement of, 21:46967 (UJV-1814)
temperature distribution in lower end grid support plate of Piqua Power Reactor, effects of configuration on, 22:35421 (AI-AEC-Memo-12574)
temperature distribution in oxide, during sintering, computer program for calculating steady-state radial, 24:12453 (BNWL-1241)
temperature distribution in Peach Bottom Power Reactor, at startup, 21:38452 (GA-8025)
temperature distribution in pebble-bed reactor homogeneous spherical, computer program for, 23:2029 (AAEC/TM-470)
temperature distribution in pin type, effects of porosity, central voids, and gas gaps on radial, (T), 24:38646
temperature distribution in pin-type, during coolant loss accidents, 22:39774 (IDO-17272)
temperature distribution in rod, effects of cladding deformation on, (T), 25:31673
temperature distribution in rod, effects of uneven surface and coolant on, (T), 25:31675
temperature distribution in spaced rod type, elementary balance method for calculation of, (T), 25:48352 (ZJE-102)
temperature distribution in THTR, calculation of statistical, (E/T), 24:11323
temperature distribution in tubular, effects of dimensional variations on, 23:45142 (UJV-2154)
temperature distribution in uranium dioxide dispersion, with Zircaloy end caps, 21:27840
temperature distribution in Zircaloy clad bulk oxide water cooled breeder, FIGRO computer program for steady state, 24:11190 (WAPD-TM-757)
temperature distribution in, COMETHE II code for, (E/T), 24:46134
temperature distribution in, determination of, 21:30286 (KFK-477)
temperature distribution in, effect of clearances between fuel and can on, (T), 21:17546
temperature distribution in, effect of fission distribution on, 21:8129
temperature distribution in, effects of non-linear heat transfer on, 24:2390
temperature distribution in, effects of surface coolant blockage on, (T), 25:34393(R) (ORNL-TM-3342)
temperature distribution in, effects of surface coolant blockage on, 25:10244(R) (ORNL-TM-3212)
temperature distribution in, effects of surface coolant blockage on, (T), 24:52951 (ORNL-TM-3122)
temperature distribution in, effects of surface coolant blockage on, (T), 25:23313(R) (ORNL-TM-3263)
temperature distribution in, FRG-code for calculating, 22:35673 (RT/ING-(67)11)
temperature distribution in, method for simulation of radial, (E/T), 25:23388 (RT/ING-(70)11)
temperature distribution in, of nuclear rocket, 21:12574 (N-66-39722)
temperature distributions for vitreous-ceramic gas cooled, 22:46899 (IFA-TR-55)
temperature distributions in cylindrical rod, differential equations for analysis of transient, (T), 23:24034
temperature distributions in liquid sodium cooled clustered pin, effects of deformations on, (E), 25:51099 (WHAN-SA-86)
temperature distributions in single-plate or pin-type, TOODEE program for, 21:34111 (IDO-17227)
temperature distributions in, equations for time- and space-dependent, 22:24987
temperature distributions in, method for calculating, 22:33094 (KFK-700(Pt. IV))
temperature distributions in, method for calculating, 22:53273(T) (EURFNR-472)
temperature distributions with self-shielding in oxide, MUTTR program for calculation of radial, 22:35664 (KAPL-3199)
temperature during flooding of, development of instrumentation for measurement of, 23:41131(R) (IDO-17299)
temperature effects on metal clad oxide, CYGRO-3 code for analysis of in-pile, 25:51101
temperature field in cylindrical rod and two-dimensional plate, method for calculating, 23:45467
temperature fields in bundle type assemblies of tube shaped, multiregion analysis of, (T), 24:20626
temperature fields in clustered rod tube bundles, two-dimensional multiregion analysis of, (T), 22:10022
temperature fields in liquid metal cooled rod type, effects of lattice configuration on, (E/T), 25:25844(T) (AEC-tr-7221)
temperature gradients and thermal stresses in, 21:34131
temperature gradients for tungsten—uranium oxide (UO$_2$), determination of allowable, (E), 22:39904 (N-68-14986)
temperature in PRTR 19 rod cluster plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), thermocouple configuration for measurement of, 24:7185
temperature increase in, effects of coolant loss conditions on, (T), 24:24905
temperature limits for mixed uranium oxide (UO$_2$)—plutonium oxides, in fast reactors, 25:34368
temperature measurement in UHTREX, performance of 250 to 3000°F melt wires for, 24:11188 (LA-4321)
temperature measurements at 1600 to 2400°C, effects of hot-zone errors on performance of thermocouples for, 21:36433
temperature measurements during transient heat transfer conditions, development of fast response embedded thermocouples for, 21:45345(R) (IDO-17234)
temperature measurements in MTR-type plate, in Geesthacht reactor, 21:46950
temperature measurements of irradiated plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pin type, center, 25:26075 (GEAP-13603)
temperature measurements of, development of ultrasonic thermometer for, 24:46537 (IN-1413)
temperature measuring devices for liquid metal cooled mixed oxide pin type, performance of, (E/T), 25:6027
temperature monitoring system for layer-insulated tube-type, description of varying-impedance-detecting cable, 23:15753(P)
temperature of clad, accuracy of thermocouples for measurement of, 24:25762(R) (BMI-1839)
temperature of graphite matrix, development of acoustic thermometers for measuring, 21:22191 (GA-7413)
temperature of operating uranium dioxide, determination using dispersed aluminum oxide monitors, 23:46152
temperature of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) DFR and DMTR pin-type, thermocouple configuration for measurement of center, 22:44811 (CONF-660521-6)
temperature of spent N.S. Savannah, effects of transfer cask coolant-loss on, 21:30234 (ORNL-TM-1845)
temperature of Tokai-Mura, measurement of surface, 21:10143
temperature of, calibration of uranium dioxide intrinsic thermocouples for measuring, 22:51276(R) (IDO-17269)
temperature of, description of CRICET remote transmitter system for measurement of, 24:18788 (CONF-690910-, pp 583-94)
temperature profile in cylindrical plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), PROFIL computer program for, 23:17282 (ORNL-TM-2443)
temperature profiles in fast, use of neutron filters for, 21:27674 (GEAP-5035)
temperature profiles in, determination of heat balances from, 23:6038
temperature profiles of irradiated tungsten-dispersed uranium carbide, 22:27396(R) (AI-AEC-12638)
temperature profiles of sodium-cooled fast ceramic, use for failure testing of, 22:7808(R) (GEAP-5522)
temperature response in Zircaloy 4-clad uranium oxide (UO$_2$) pin-type, effects of thermal properties on steady-state and transient, 23:19581 (IDO-17295)
temperature response of, effects of blowdown core cooling and initial heatup on, 23:11256(R) (IDO-17265)
temperature transients for uranium oxide (UO$_2$) pressurized water, use of NURLOC-code for determination of, 22:42160(R) (BMI-1844)
temperature transients in annular flow cooled, effects of heat generation step change on, (T), 24:4169
temperature transients in cylinder shaped reactor core of, calculation of, (T), 24:2062
temperatures in defectively bonded flat-plate, analytical method for maximum, 21:12192
temperatures in end closures of annular, analysis of transient, 21:10222
temperatures in liquid metal cooled rod type, superposition principle for calculation of, 24:46006
temperatures in, effectiveness of emergency core cooling system for peak, 25:1901
temperatures in, effects of mixed oxide fuel types and pellet designs on centerline, (T), 24:26835(R) (BNWL-1358)
temperatures in, equations for calculations of, 21:25746
temperatures of BR2, determination of maximum permissible, 21:30100 (BLG-119(Rev.1))

temperatures of graphite matrix, design and performance of acoustic thermometers for measuring, 21:32519
temperatures of large assembly of, during shear-leach processing, 22:14564 (ORNL-4139, pp 23-42)
temperatures of mixed oxide pin-type, direct in-pile measurement of central, 22:6162
temperatures of oxide, effects of initial system temperature and reactor period on hot-spot, 22:48648(R) (IDO-17271)
temperatures of Peach Bottom, effects on core reactivity, 21:25624(R) (GA-7595)
temperatures of pin, to 2800°C, construction of thermocouples for measuring, 21:32517
temperatures of plate-type, graphical method for determining central, 22:30345 (KAPL-M-6914)
temperatures of, effects of coolant and fuel element radius on internal, 22:33094 (KFK-700(Pt. IV))
temperatures of, effects of coolant and fuel element radius on internal, 22:53273(T) (EURFNR-472)
tensile properties of beryllium-clad urania, 21:14834
tensile properties of dispersion hardened cermet, 23:25006
tensile properties of niobium—uranium—zirconium alloy and molybdenum—uranium oxide (UO_2) cermet, effects of particle size and composition on, 23:21510 (BNL-13208)
test equipment for, calibration and operation of, 25:34404 (WHAN-IR-30)
test loop for HWOCR, design parameters for, 21:38432(R) (AI-CE-4)
test results under varying conditions for Pegase, 21:23733
testing at high temperatures, out-of-pile, 21:30203
testing by thermal cycling, design of equipment for, 25:39634(P)
testing clad plutonium dioxide—uranium dioxide, by transients in TREAT, 22:31526 (GEAP-4469)
testing for fast reactors, methods for, 25:8896(T) (BNWL-tr-57)
testing for fretting and wear in liquid sodium, program for assembly, 24:23506(R) (WARD-4135-4)
testing for HWOCR, 21:23587(R) (AI-CE-31)
testing in Big Rock Point reactor, 21:502(R) (GEAP-5126)
testing in Big Rock Point reactor, corrosion and radiation, 21:19359(R) (GEAP-5405)
testing in EBR-II—TREAT series, hazards analysis for, 24:48859 (BNWL-1368)
testing in EVESR, 21:1162(R) (GEAP-5175)
testing in Fermi Fast Breeder, 21:30097(R) (APDA-CFE-6)
testing in Fermi Fast Breeder, 21:30098(R) (APDA-CFE-7)
testing in Japan of assemblies of experiment program fast breeder, 24:18718(T) (JAPFNR-2)
testing in PBF, proof and rupture, 21:19464(R) (IDO-17207)
testing in-core surfaces of, for crud, 21:13992 (WCAP-3269-58)
testing instrumented, for heat transfer studies, 21:15664(R) (WCAP-3696-2)
testing of aluminum-alloy-clad, in HBWR, 21:2864(R) (KR-109)
testing of aluminum-clad uranium plate-type, use of infrared radiation for nondestructive, 23:9238 (CEA-CONF-1078)
testing of assemblies of, design of operation of loop for, 24:2361
testing of boiling power reactor, requirements for field, 25:54098 (NEDO-10017)
testing of boron-impregnated aluminum-clad uranium, destructive, 24:17392 (IN-1335, pp 25-82)
testing of clad ceramic, by thermal cycling, 24:23539 (GEMP-741)
testing of cladding-to-fuel bonds in, ultrasonic equipment for, 25:46605
testing of fast, equipment for, 25:54092 (A/CONF.49/P-609)
testing of fast, TREAT design modifications to allow, 23:49572 (ANL-7410, pp 229-337)
testing of fast, use of thermal reactor for, 23:49572 (ANL-7410, pp 229-337)
testing of fast, use of thermal reactors for, (T), 25:44165
testing of FERTF basket-type, 21:40541(R) (BNWL-492)
testing of gas cooled fast ceramic coated particle, description of, 23:28368
testing of gas cooled fast chrome-cermet, description of, 23:28368
testing of Gentilly Power Reactor, at 40 to 60 W/cm operation, 21:44813 (AECL-2949)
testing of Hanford, eddy current and ultrasonic methods for nondestructive, 21:17798 (BNWL-SA-97)
testing of hexagonal arranged pin type, compression, (E), 25:3908 (WHAN-FR-18)
testing of irradiated SENA-type Zircaloy-4 clad, nondestructive, 23:52491(R) (WCAP-3017-6089)
testing of irradiated, facilities and equipment for, 22:16356 (KR-116)
testing of irradiated, gamma scanning method for nondestructive, 25:6503
testing of irradiated, gamma spectrometer for nondestructive, 22:45328
testing of light water power reload, description of manufacturers criticality and design parameter, 23:28387
testing of liquid metal cooled pin type, sodium boiling during overpower transient, 25:41540
testing of Otto Hahn Reactor, destructive and non-destructive, 21:42795
testing of Phoenix plates following irradiation in MTR, 23:17246(R) (BNWL-985)
testing of pressurized water, description of facility for, 23:17659
testing of rod-type plutonium dioxide—uranium dioxide, safety evaluation of EBR-II in-pile, 24:23541 (ORNL-TM-2635)
testing of rod-type, under gas-cooled fast reactor conditions and thermal cycling, 24:34839(R) (BNWL-1091)
testing of SEFOR instrumented, with multipin lead connector, 21:30140 (GEAP-5307)
testing of sodium-bonded stainless steel-clad carbide, eddy current and radiographic methods for, 24:25244
testing of spent, use of 18-MeV betatron for nondestructive, 25:29291
testing of Tokai-Mura Power Reactor Magnox-type, description of out-of-pile temperature and pressure, 23:15571
testing of unbonded EBR-2, results of high power level TREAT, 23:49572 (ANL-7410, pp 229-337)
testing of uranium oxide (UO_2) rod type, description of direct electric heating method for thermal, (E), 24:38597 (KFK-1031)
testing of vanadium clad pin-type, description of, 23:28368
testing of Zircaloy-2-clad extruded uranium tubular, experiment design for, 24:4765 (CISE-R-156)
testing of Zircaloy-clad uranium dioxide, at high temperatures in steam, 24:948 (GEMP-1012(Pt.2), pp 203-52)
testing of zirconium alloy-clad sintered uranium dioxide, for Lenin icebreaker, 21:10193 (IAE-1181)
testing of, analysis of purge gas from in-pile, 22:14427 (ORNL-4196, pp 15-32)
testing of, application of neutron transient characteristics in heavy moderators for nondestructive, 25:6204
testing of, design of equipment for nondestructive, 21:41176(P)
testing of, design of high temperature furnace for, 22:28251
testing of, design of reactor for, 21:32028(P)
testing of, eddy current method for, 21:32342(P)
testing of, emittance-independent infrared method for nondestructive, 22:45256
testing of, explosive method for pressure pulse, 24:5834
testing of, heat transfer in facility for, 21:19458(R) (BNWL-300)
testing of, hot cell design for, 21:12613 (JAERI-1110)
testing of, instrumentation and data reduction techniques for performance, 21:19868 (CONF-660511-, pp 7.4.1-9)
testing of, methods development for nondestructive, 21:12607 (ORNL-3970, pp 118-24)
testing of, neutron slowing down time spectrometer for fissionable material determination for nondestructive, 23:2710
testing of, nondestructive methods for, 23:31499
testing of, nondestructive methods for, 22:43002
testing of, review of Ispra research on, 23:17645 (EUR-3940-3)
testing of, review of methods for nondestructive, 22:2319
testing of, sodium loop design for, 21:8499 (TRG-Report-1273)
testing of, use of eddy current and ultrasonic systems for nondestructive, 21:19864 (BNWL-SA-1142)
testing of, use of pinhole γ camera for nondestructive, 21:19856
testing Phoenix, in HTLTR, 21:31902(R) (BNWL-367)
testing program for Pegase, 21:23731
testing quality of Hanford, method for nondestructive, 21:36296 (BNWL-SA-901)
testing Spert IV capsule driver, 21:19464(R) (IDO-17207)
testing uranium carbide and uranium carbide—zirconium carbide, 25:18610 (DP-Report-580)
themocouple connection for radial splitter fin-type metallic can-enclosed, description of cable-straightening device for hot junction, 22:39914(P)
thermal analysis of, 22:1886
thermal analysis of coolant flow blockage in FFTF, 21:46938(R) (BNWL-501)
thermal analysis of SNAP-10A, during reentry, (T), 21:1200 (NAA-SR-Memo-11847)
thermal baffle design for, 22:10471(P)
thermal behavior of oxide, in fast reactors, 22:4906
thermal calculations for heavy water-moderated gas-cooled tubular, 22:16319 (UJV-1839)
thermal characteristics of rod-type, analytical expression for, 22:33095 (KFK-700(Pt. V))
thermal characteristics of rod-type, analytical expression for, 22:53273(T) (EURFNR-472)
thermal conducitivity of plutonium oxide (PuO_2)—thorium oxide (ThO_2)—uranium oxide (UO_2), effects of reduced oxygen ratio on, 23:37837(P)
thermal conductivity and thermal expansion of, analytical expression for, 22:33095 (KFK-700(Pt. V))
thermal conductivity and thermal expansion of, analytical expression for, 22:53273(T) (EURFNR-472)
thermal conductivity at 800 to 2,000°C, method for determining, 21:34176
thermal conductivity calculations for pyrolytic carbon, 22:27416(R) (ORNL-4228)
thermal conductivity measurement in ceramic, 21:38584
thermal conductivity measurement method for ceramic, at high temperatures, 21:11297 (KFK-415)
thermal conductivity of AARR, 21:13946(R) (ANL-7279)
thermal conductivity of annular, method for estimating, 25:4203 (DP-Report-578)
thermal conductivity of clad uranium carbide, in-reactor, 21:6891 (AECL-2521)
thermal conductivity of damaged, calculation of, 21:21662
thermal conductivity of irradiated cylindrical, FIGRO computer code for analysis of, 21:14116 (WAPD-TM-618)
thermal conductivity of metal clad ceramic, balanced oscillator method for in-pile measurement of, (E/T), 25:10323(T) (EURFNR-774)
thermal conductivity of pin-type urania, calculation from in-pile measurements, 21:14106 (CEA-R-3041)
thermal conductivity of plutonium oxide (PuO_2), thorium oxide (ThO_2), and uranium oxide (UO_2), effects of reduced oxygen ratio on, 23:37837(P)
thermal conductivity of plutonium oxide (PuO_2)—thorium oxide (ThO_2), effects of burnup on, 23:4474
thermal conductivity of plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of burnup on, 25:26074(T) (EURFNR-817)
thermal conductivity of Type 347 and Type 316 stainless steel-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 22:50732(R) (GEAP-5631)
thermal conductivity of uranium dioxide, calculations for approximation of transient, 23:47708
thermal conductivity of Zircaloy-2-clad uranium oxide (UO_2) at 2750°C, in GETR, 22:35457 (GEAP-5100-6)
thermal conductivity of, description of high heat, 22:42451(P)
thermal conductivity of, effects on economic performance of fast breeder reactors, 24:11145
thermal conductivity of, equations for, 21:10213 (CONF-661001-36)
thermal conductivity of, error analysis for balanced oscillator method measurements of in-pile, 25:10324(T) (EURFNR-775)
thermal contact resistance in, reduction of, 25:37947 (ORNL-4660)
thermal diffusivity measurements on aluminum-clad MTR-ETR-type, up to 600°C, 21:18203(R) (IDO-17218)
thermal diffusivity of irradiated, measurement of, 21:42725(R) (ANL-7357)
thermal disadvantage and fast advantage factors in seed-blanket assemblies of, 21:44877
thermal disadvantage factor in, method for calculation, (E/T), 22:3848 (WAPD-TM-672)
thermal efficiency for, method for determining, 22:33094 (KFK-700(Pt. IV))
thermal efficiency for, method for determining, 22:53273(T) (EURFNR-472)
thermal expansion and radial deformation during irradiation, 21:42840
thermal expansion of axially segmented fast, reactivity temperature coefficient from, 24:33262
thermal expansion of plutonium dioxide—uranium dioxide, effects of stoichiometry on, 22:4878
thermal expansion of uranium oxide (UO_2) sintered pellet-shaped, analysis of in-pile, 23:2131 (EUR-4033)
thermal expansion of Zircaloy-clad uranium dioxide, effects on voids in, 22:612(R) (GEMP-69)
thermal expansion of, dynamic thermoelastic calculations for, 23:36093
thermal expansion temperature dependence of, 22:49858 (WAPD-TM-631)
thermal fields in PWR, analysis of, 21:42839
thermal gradient effects on thermal conductivity of uranium dioxide, 22:15190(T) (EURFNR-382)
thermal hydraulic testing of hydrogen cooled, (E/T), 25:6141
thermal insulation for clad tube type, description of end located metal wafer, 23:49675(P)
thermal insulation for heavy water moderated CIRENE type, calculation methods for heat loss in, 24:13548 (CISE-R-177)
thermal insulation for mixed oxide pin type fast breeder, description of uranium metal, 24:26782(P)
thermal insulation from pressure tubes, device for monitoring, 21:5716(P)
thermal insulation in Zircaloy-2 pressure tube type, use of coatings of sprayed zirconium oxide for, 24:16323 (EUR-4400)
thermal limits for gas cooled fast breeder, effects on power production economics, 25:5902
thermal migration of pores in ceramic, 22:4802
thermal neutron spectra in multiple uranium rod-type, analysis of position-dependent, 23:4365
thermal parameters for smooth and longitudinally-finned concentric tube gas-cooled, calculation of, (T), 23:9160 (UJV-2023-R)
thermal performance analysis in assemblies of boiling, COLIBRI code for subchannel, (E/T), 25:37003 (CONF-710317-1)
thermal performance during central melt conditions of Zircaloy-2 clad uranium oxide (UO_2) four rod cluster, analysis of, 22:16279 (GEAP-5100-2)
thermal performance during central melt conditions of Zircaloy-2 clad uranium oxide (UO_2) from rod cluster, analysis of, 22:16282 (GEAP-5100-L)
thermal performance of 7-rod cluster, computer program for calculation of, 22:14663 (EUR-3733)
thermal performance of center-melting Zircaloy-2 clad uranium oxide (UO_2), 22:22698 (GEAP-5591)
thermal performance of four rod-cluster Zircaloy-2 clad uranium oxide (UO_2), 22:16281 (GEAP-5100-K)
thermal performance of four rod-cluster Zircaloy-2 clad 87 percent density vibratory compacted uranium oxide (UO_2), 22:16280 (GEAP-5100-H)
thermal performance of irradiated plutonium dioxide—uranium dioxide, effects of fuel density and power rate on, 24:4855 (CEA-R-3878)
thermal properties of ceramic, effects of high-conductivity layers on, 21:14894
thermal properties of ceramic- and metal-layered, 23:30144
thermal properties of coated particle, 22:53416(R) (LA-4009)
thermal properties of cylindrical, computer program for analysis of, 21:8130
thermal properties of LOFT Zircaloy 4-clad uranium oxide (UO_2), calculation of optimum, 23:4272(R) (IDO-17264)
thermal properties of Zircaloy 2-clad sintered and VIPAC rod-type uranium oxide (UO_2) and thorium oxide (ThO_2)—uranium oxide (UO_2), analysis of, 23:4473
thermal response in LOFT, during coolant loss accident, 23:52382(R) (IDO-17267)

thermal shock testing in liquid sodium at 800 to 1300°F of simulated SEFOR plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of, 23:26083 (GEAP-5467)
thermal sources in, effects of gamma absorption and fast neutron fission on spatial distribution of, 22:16321 (UJV-1876)
thermal stability studies for Fort St. Vrain, 21:38449(R) (GA-6950)
thermal stress determination in, iterative perturbation method for, 21:32320
thermal stress effects on tube and pin, 21:44929
thermal stress limitations for Rover Reactors graphite matrix uranium carbide (UC_2) bead type, 23:31209 (LA-DC-10116)
thermal stress measurement in, induced, 21:40669 (ANL-7290, pp 27-119)
thermal stresses in beryllium oxide-base, analysis of, 23:6724(R) (GA-6889)
thermal stresses in circular cylindrical pin type, with radial temperature distribution, (T), 24:43861
thermal stresses in clad cylinder and sphere, (T), 25:54318
thermal stresses in cylindrical, effects of length to diameter ratio on, (T), 24:43862
thermal stresses in test specimens of pin-type, computer calculation of, 24:17360(R) (WARD-4135-1)
thermal stresses in, from sudden internal localized heat generation, (T), 22:45235 (ANL-7420)
thermal stresses in, neutron flux effects on, 21:1229
thermal testing of laminated stainless steel, 22:49844
thermal testing of prototype twisted tape clusters, 22:9996(R) (EUR-3651)
thermal transients in boiling water, calculational model for, 22:25003
thermal-hydraulic analysis of bundle subchannels, COBRA-III code for steady state and transient, 25:46253 (BNWL-B-82)
thermal-hydraulics characteristics of boiling, instrumentation for determining, 23:25996 (GEAP-4750)
thermionic converters for, theory of, 22:36775 (CONF-680508-4)
thermionic diode converter, description of ceramic-centered spring-positioned variable-spaced concentric electrodes for, 22:39838(P)
thermionic, description of coaxial arranged, 23:45089(P)
thermocouple connection for radial splitter fin-type metallic can-enclosed, description of cable-straightening device for hot junction, 22:48781(P)
thermocouple development for, 22:647(R) (BNL-50077)
thermocouple for tube-type clad, description of internal passageway-guided, 23:17294(P)
thermocouple incorporation in DIDO plate-type, 21:8033 (AERE-M-1040)
thermocouple locations in AGR, information obtainable from, 21:27763
thermocouples for SEFOR instrumented, design of, 23:26047 (GEAP-5615)
thermocouples for, design of cables for, 21:40718(P)
thermodynamic analysis of tube cluster, 21:40699
thermodynamic characteristics of steam cooled fast breeder, effects of helical ribs on, 23:23915
thermodynamic processes in, effects on, 21:30286 (KFK-477)
thermodynamic properties of laminated, effects of loss of coolant on, 21:46873
thermodynamics calculations for high temperature gas-cooled, BLOOST-6 computer program for, 21:46965 (GAMD-8119)
thermodynamics of boiling reactor, effects of geometry on, 22:3825(R) (EURAEC-1899)
thermodynamics of solid or hollow cylinder, FORTRAN 4 computer programs for calculation of, 25:20835 (RT/ING-(70)8)
thermoelastic stress in pebble-bed reactor homogeneous spherical, computer program for, 23:2029 (AAEC/TM-470)
thermoelasticity of, analysis of problems in anisotropic, 21:26021 (ANL-7277)
thermoelectric cell development for, 21:37246(P)
thorium-232 Doppler coefficient measurements in high temperature gas cooled, 23:4228
tie rods for assemblies of, design of tool for cutting, 24:7559(P)
trace element effects on swelling behavior of, 21:42725(R) (ANL-7357)
transfer functions for cylindrical, use of heat conduction equations for evaluating, 24:7343
transfer into leak-tight reactor containment, device for, 22:12157(P)
transfer machine for, development of, 21:27670(R) (GA-7086)
transient testing in TREAT of preirradiated mixed-oxide, 21:46854(R) (GEAP-5098)
transient testing of uranium oxide (UO_2) pellet-type and vibrationally compacted, analysis of failures from, 23:9237(R) (BNWL-907)
transport of ESSOR, criticality calculations for safe, (T), 24:7610 (EUR-4382)
transport of Obrigheim, procedures and containers for, 23:15586
transport of, design and operation of elevators for, 22:49000
transport of, safety criteria for, 21:392
transportation of French spent, cost breakdowns for, 23:15638 (CEA-CONF-1093)
tritium distributions in Zircaloy 2 clad uranium oxide (UO_2) rod, comparison of power density to, 25:51242 (GEAP-12205)
tube type, description of gas insulated, 23:45088(P)
tubing for Mark VR, reduction in machining stock on extruded, 23:4523(R) (NLCO-1025)
uranium and uranium-235 content in assemblies of, gamma spectrometric measurement of, 25:21295
uranium contamination detection on, x-ray fluorescence tester for, 21:3327 (BNWL-SA-264)
uranium contamination in closure welds of, use of x-ray fluorescence analysis for determining, 21:32446
uranium contamination on surface of, use of alpha scintillation detectors for determining, 21:32446
uranium distribution in laminated plate-type, photometric analysis of gamma radiographs of, 23:9239 (CEA-CONF-1079)
uranium distribution in MTR-type, radiometric quantitative estimation in, 25:42178
uranium distribution in plate type aluminum clad, method using photometry of radiographs for control of, 23:40457(T) (ORNL-tr-2131)
urahium recovery from unirradiated scrap from, 24:48147 (NLCO-1056)
uranium rods, method of coating, 21:39596(P)
uranium-235 content in unirradiated, scintillation method for measuring, 25:21293
uranium-235 content in, design of self-correcting thallium-activated sodium iodide scintillation detector for determining, 22:30820 (NLCO-1011)
uranium-235 content of unirradiated, design of portable γ spectrometer for monitoring, 21:43275
uranium-235 distribution in, determination by gamma spectroscopy, 24:17392 (IN-1335, pp 25-82)
uranium-235 enrichment in, use of thallium-activated sodium iodide gamma spectrometers for determining, 21:32446
uranium-238 fission in low-enriched rod, method of calculating fast, 22:6170
use as gamma source for irradiation facility, optimum regimes for, 24:14151
use as gamma source in irradiation facility, 23:19913
use as radiation source in testing natural salt formations, 22:2323(R) (ORNL-TM-1887)
use as radiation sources in irradiation facilities, 23:29043
use as radiation sources in irradiation facility, 22:10426 (AAEC/TM-347)
use of depleted uranium, as gamma source for sterilization of medical supplies, 23:2533(P)
use of fresh-used-fresh, in sandwich row-arranged loading configuration, 22:48768(P)
use of natural uranium, for advanced converters, 21:42763
use of plutonium for, 21:30205
use of plutonium, in BWRs, 22:6021
use of plutonium, in pressurized-water reactors, 22:6022
use of single, for determination of lattice parameters in organic coolant systems, (E/T), 24:4160
use of single, for determination of reactor physics parameters, 22:3893 (MIT-2344-10)
use of spent uranium, for food processing, 23:12253(T) (ORNL-IIC-14, pp 82-107)
use of spent, as gamma sources, configuration optimization for, 24:25220
use of spent, as heat source for thermoelectric converters, 24:25151
use of spent, as source for rubber vulcanizing facility, 23:4787
use of spent, for vulcanizing rubber tires, 22:2283
vent for, design of, 22:7932(P)
vent system for liquid metal cooled, description of fission gas, 24:24845(P)
venting device for liquid sodium cooled ceramic, development of hydraulic, 25:34360 (RT/ING-(70)29)
vents in liquid metal cooled ceramic fast, performance for removal of gaseous fission products of, 24:22407 (RT/ING-(69)30)
vents in, simplified counterdiffusion apparatus for characterization of, 24:13802 (ORNL-4400, pp 93-102)
vibration characteristics in boiling water reactor assemblies, (E), 24:33304
vibration characteristics of end supported, simulation of, (E), 25:20740
vibration characteristics of water cooled parallel rod, effects of end restraint and spacer configurations on, (E), 25:31570 (RT/ING-(70)24)
vibration eigenfrequencies and damping of rod-type, analysis of transverse liquid-metal coolant flow-induced, (E/T), 22:44922 (KFK-731)
vibration in parallel flow, effects of helical ribs on transverse, (E/T), 25:36982
vibration in rod bundles from two-phase coolant flow, (E/T), 24:33303
vibration in rod type, analysis of parallel coolant flow induced, 23:40499
vibration in two-phase parallel coolant flow, (E/T), 24:33302
vibration of 19-rod cluster, effects of two-phase coolant flow on, (E), 25:18129
vibration of cylindrical, effects of two-phase parallel flow on, (E/T), 25:39329
vibration of grid-supported, fundamental frequency and end slope of, (T), 25:18226
vibration of liquid metal cooled pin type, effects of test loop on parallel flow induced, 25:44119 (EURFNR-923)
vibration of liquid sodium cooled cylinder shaped tube, analysis of parallel flow induced, (T), 25:6030
vibration of mockup, in in-pile gas loop, (E/T), 25:51243 (JAERI-13616)
vibration of pin type, effects of liquid metal coolant flow on, (E), 24:26772 (KFK-1082)
vibration of pins in sodium cooled, effects of spacer grid distribution on, (E), 25:54095(T) (EURFNR-903)
vibration of sodium cooled, natural frequencies and damping of, (E/T), 25:36993 (KFK-1337)
vibration of vertically stacked, spring loaded lug and groove method for prevention of, 23:37793(P)
vibration of, coolant cross flow and parallel flow induced, 22:7927
vibration of, core structure for prevention of, 23:47348(P)
vibration of, effects of parallel turbulent fluid flow on, (E/T), 23:47336
vibration of, reactivity perturbations from random, (T), 24:22485
vibration response of long flexible cylindrical, in axial flow, tentative design guide for calculation of, 25:41983 (ANL-ETD-71-7)
vibration stability of liquid-metal fast-breeder reactor, analysis for optimum, (E/T), 22:32970(R) (GEAP-5584)
vibrations in assemblies of pin type, analysis of liquid sodium flow induced, (E/T), 24:43761(T) (EURFNR-745)
vibrations in assemblies of water cooled, mockup testing for hydrodynamic, (E), 25:3909
vibrations in boiling reactor, effects of turbulent fluid flow on, (E/T), 23:47201 (AECL-3371)
vibrations in CIRENE, use of spectral analysis for measurement of, 24:22498
vibrations in clustered subassemblies of, mathematical modeling of interaction and damping in, (E/T), 21:46961 (ANL-7292)
vibrations in gas cooled, description of radial spring bristles for prevention of, 25:34374(P)
vibrations in liquid sodium cooled pin type bundle, effects of configuration on, 24:52919
vibrations in liquid sodium cooled pin type, analysis of coolant flow induced, (E/T), 25:15370
vibrations in liquid sodium cooled pin, instrumentations for measurement of flow induced, 24:52873 (ANL-7685, pp 141-76)
vibrations in ORGEL-type, model studies for parallel flow, (E/T), 22:48688
vibrations in rod type, analysis for conceptual Na-1 fast breeder reactor of transverse, 24:13550(T) (EURFNR-653)
vibrations in rod type, analysis of parallel coolant flow induced, (E/T), 24:26837(T) (LIB/Trans-246)
vibrations in sodium-cooled, analysis of, 22:25083(R) (GEAP-5541)
vibrations in turbulent coolant flow, model for studies of, 25:32124
vibrations in, flow-induced, 23:33320 (DSR-70318-58)
vibrations in, spectral analysis method for detection of, 25:39314
vibrations induced by coolant pressure fluctuations, calculation of, 24:52869 (ANL-7685, pp 47-63)
vibrations induced by parallel coolant flow, effects of nearfield noise on, 24:52872 (ANL-7685, pp 112-40)
vibrations of rod type, effects of parallel flow turbulence on transverse, 25:15213
vibrations of, effects on multigroup neutron lattice parameters of, (T), 25:12850
void measurements in Swedish Reactors (R-4) FT-36b, 24:18507 (FRIGG-PM-15)
void volume in ATR plate-type, methods for determining, 24:44763 (ORNL-4560, pp 235-6)
void-detector in metal-clad, description of, 22:18648(P)
voids in water cooled ceramic rod, description of offset on partitioned central, 25:54105(P)
volume balances for, specifications for, 22:33097 (KFK-700(Pt. XIII))
volume balances for, specifications for, 22:53273(T) (EURFNR-472)
vortex-flow liquid-cooled helical-ribbed cylindrical, description of, 22:25121(P)
wafer-type horizontal moderator-tube enclosed, description of, 22:42447(P)
water flow in four-rod bundles of, characteristics of high-pressure, (E), 24:19144
water from pellet type plutonium oxide (PuO_2)—uranium oxide (UO_2), measurement method for evolved, 25:48258 (LA-4681)
water logging of BONUS superheater, 21:27745
water-cooled reactor uniform-flow-rate axial-plate, description of, 23:11358(P)
waterlogging failure in, analysis of, 21:12259 (ORNL-3867)
wear in multipin assemblies of, effects of grid-pin interactions on, 25:728(R) (WARD-4135-11)
weld inspection of, design of radiographic equipment for, 24:9617(P)
weld joint design between end caps and wire wraps on, evaluation of, 24:25650 (BNWL-1331)
welding assemblies of, modification of drilling machine for repetitiously, 23:2473(P)
welding end plugs by programmed cycles, equipment and procedures for, 22:49694
welding end plugs to, design of automated equipment for, 23:51028(P)
welding of, 22:16356 (KR-116)
welding of clad plate-type, electron-beam method for, 25:2770 (ORNL-4570, pp 127-35)
welding of end plugs to tubular, methods for explosive, 25:32672(P)
welding of ends of, design of equipment for automatic, 23:40928(P)
welding of fillet wires to end caps of, evaluation of joint stability in, 24:25651 (BNWL-1332)
welding of plugs to, design of equipment for, 24:14671(P)
welding of rod-type, in vacuum, electron-beam method for, 25:8461
welding of SAP, performance of methods for, 23:10268
welding of tubular, to closure plug, methods for, 24:9558(P)
welding of Zircaloy end closure joints in, process for resistance, 21:9077 (AECL-2814)
welding stainless steel and Zircaloy-clad fuel rod clusters, methods for, 21:18311(R) (CEND-2863-243)
width tolerance specifications for ATR plates, 21:40675(R) (IN-1083)
wire spacers for, properties of Hastelloy-X and Incoloy-800 as, 21:26766
xenon release from pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:43758 (DP-Report-408)
xenon tagging of instrumented EBR-2, equipment and procedures for, 24:18645 (CONF-690910-, pp 59-70)

zoning of Fort St. Vrain, multigroup diffusion calculations for convoluting axial and radial, 21:38449(R) (GA-6950)
design of natural urania, with plutonium center, 21:15807(P)
fission product diffusion from clad urania, in Nuclear Safety Pilot Plant tests, 21:15661 (ORNL-TM-1698)
Reactor Fuel Reprocessing Plants
see Radiochemical Processing Plants
REACTOR FUELS
(For general and economics studies and fuel material not in a precise configuration. See also the specific fissile and fertile materials listed below.)
see also Plutonium
see also Plutonium Alloys and Systems
see also Plutonium Carbides
see also Plutonium Nitrides
see also Plutonium Oxides PuO_2
see also Plutonium Phosphides
see also Thorium
see also Thorium Alloys and Systems
see also Thorium Carbides
see also Thorium Nitrides
see also Thorium Oxides ThO_2
see also Thorium Phosphides
see also Uranium
see also Uranium Alloys and Systems
see also Uranium Carbides
see also Uranium Nitrides
see also Uranium Oxides UO_2
see also Uranium Phosphides
see also Uranium Silicides
abundance during 1967 to 1980 of, estimates of USA, 22:27429
abundance in USA and world during 1980 to 2000, estimates of, 22:27428
accountability of Yankee Power Reactor, comparison of methods for, 23:37422
accountability procedures for Yankee, 21:35632
actinide redistribution in mixed oxide fast, temperature and kinetics for in-pile, 25:44124 (ORNL-TM-3387)
activity of, optimization method for calculation of fission product decay, 25:10308
alpha reactions (α,n) with oxygen-18 in, neutron yields from, (E), 21:38238
analyses of irradiated, determination of trace element amounts by, 22:9988(R) (ANL-7391)
analyses of uranium sulfide, chemical, 21:23589(R) (ANL-7308)
analysis and inspection of irradiated, design of JAERI hot cell for use in, 25:4298
analysis by cyclic activation, nondestructive, 25:51406 (CONF-710617-10)
analysis by isotope dilution mass spectrometry, 25:18356 (KR-140)
analysis by x-ray powder photography, review of method for, 24:46785 (TRG-Report-1952)
analysis for americium, curium, neptunium, plutonium, protactinium, thorium, and uranium isotopes by mass spectrometric and radiochemical methods, 24:25007 (WCAP-6086)
analysis for cerium, neodymium, and samarium by isotope dilution mass spectrometry, 21:21876
analysis for cesium-137, 22:30445(P)
analysis for cesium-137 using direct β-γ coincidence counting, method of, 21:34222
analysis for fast fission yields, 24:43935 (ANL-7650, pp 35-40)
analysis for fissile materials by neutron capture method, 23:45225
analysis for fissile materials, neutron source for nondestructive, 24:31254
analysis for fission gases, apparatus for dissolution in, 24:25099 (JUL-627-RB)
analysis for fission product xenon by isotope dilution and mass spectrometry, 25:31818
analysis for fission products, thorium, uranium, and uranium isotopes, 24:38708(R) (DP-Report-270)
analysis for fission products, uranium-235, and uranium-238, 23:28740
analysis for fissionable material by activation and scintillation counting, 25:8215(P)
analysis for fissionable material, nondestructive neutron irradiation method for, 25:48495(P)
analysis for fissionable materials by neutron interrogation methods, 24:29216
analysis for fissionable materials, development of automatic methods for, 25:51759 (A/CONF.49/P-809)
analysis for fissionable materials, equipment and nondestructive methods for, 25:20938
analysis for fissionable materials, nondestructive neutron interrogation method for, 24:29223
analysis for fissionable materials, nondestructive methods for, 25:37305 (A/CONF.49/P-842)
analysis for fissionable materials, review on nondestructive, 24:38758
analysis for impurities by emission spectroscopy, 25:10432 (KFK-1261)
analysis for impurities, methods for, 22:25236 (CEA-N-616, pp 20-71)
analysis for isotopic ratios, sample preparation by arc erosion method for γ spectrometric, 24:41209(R) (DP-Report-376)
analysis for metal—oxygen ratio, method for, 23:46121 (BNWL-1144, pp 5.1-40)
analysis for neptunium by solvent extraction and isotope dilution, 24:36164(T) (EURFNR-730)
analysis for nitrogen and oxygen, 24:38703
analysis for plutonium and uranium by ion-exchange separation and mass spectrometry, ASTM method for, 25:28978
analysis for plutonium and uranium by isotopic dilution, 23:49724
analysis for plutonium and uranium for safeguarding strategic materials, 24:39194 (WASH-1147, pp 96-108)
analysis for plutonium and uranium isotopes, 24:38703
analysis for plutonium and uranium isotopic composition of, mass spectrographic, 22:25236 (CEA-N-616, pp 20-71)
analysis for plutonium and uranium, development of automatic analytical laboratory for mass spectrometric isotope dilution, 25:21238
analysis for plutonium by amperometric titration, 23:11397 (AECL-3206)
analysis for plutonium, coincident neutron detector system for, 24:44236 (AD-703616)
analysis for plutonium, coulometric, 22:37639(T) (ANL-Trans-610, pp 1-56)
analysis for plutonium-239 and uranium-235 using slowing down spectrometer, 24:48037 (BNL-50232)
analysis for radiobarium, 23:6 (IN-1203, pp 37-51)
analysis for technetium after liquid—liquid extraction, spectrophotometric, 21:21872
analysis for trace impurities, 24:38703
analysis for trace impurities by emission spectroscopy following ion exchange or prevaporization, 25:44315(T) (EURFNR-852)
analysis for uranium abundance relative to plutonium, preparation and uses of double plutonium-242—uranium-233 tracer for, 24:22576(T) (ANL-Trans-796)
analysis for uranium after ferrous ion reduction in phosphoric acid, methods for automatic and manual titrimetric, 24:38712 (NBL-252)
analysis for uranium after ferrous iron reduction in phosphoric acid, methods for automatic and manual titrimetric, 25:20912
analysis for uranium by anion exchange and titration with potassium dichromate, 24:18899
analysis for uranium by constant-current coulometry, 21:17585
analysis for uranium isotopes by mass spectrometry, 24:26922 (JUL-633-CA)
analysis for uranium, accurate and precise titrimetric method for, 25:8202 (RCN-126)
analysis for uranium, high-temperature fluorination apparatus for use in controlled-potential coulometric, 23:9513 (ORNL-4343, pp 86-90)
analysis for uranium, rapid-scan polarographic, 23:9513 (ORNL-4343, pp 86-90)
analysis for uranium-235 by γ spectrometry, 24:41208 (DP-Report-366)
analysis for uranium-235, nondestructive thermal neutron activation method for, 23:28766(P)
analysis for uranium-235, operator's manual for Baird Atomic enrichment tester for, 25:15915 (DUN-M-30)
analysis for zirconium or zirconium isotopes by solvent extraction using N-benzoyl-N-phenylhydroxylamine, spectrophotometric or radiochemical, 24:48041
analysis of aqueous and organic solutions of, for plutonium and uranium by x-ray fluorescence methods, 23:2174(T) (EURFNR-531)
analysis of aqueous solutions of irradiated, for zirconium, spectrophotometric, 24:31223 (GAMD-10072)
analysis of cartridge and coated-particle, for thorium and uranium by gamma spectroscopy, 24:38745 (DP-Report-194)
analysis of ceramic, review of methods for, 23:2218
analysis of ceramic, techniques for x-ray diffractometric, 21:27896 (TRG-Report-1309)
analysis of coated high-temperature, for radial profiles of fissionable materials and fission products by recoil and chemical etching methods, 25:15521
analysis of coated or uncoated, for carbon, thorium, uranium, and zirconium, 24:38707 (DP-Report-264)
analysis of dissolved, for uranium by isotopic dilution mass spectrometry, 23:7 (IN-1203, pp 52-61)
analysis of EBR-II, development of remotely controlled atomic absorption spectrophotometry system for, 24:36153
analysis of FFTF driver, methods for, 24:31222 (BNWL-1024)
analysis of FFTF, evaluation of methods for, 24:2 (BAW-4088-1)
analysis of irradiated and unirradiated, review of methods for, 21:45017 (WASH-1076, pp 96-114)
analysis of irradiated ceramic, for oxygen, method for, 25:58344(R) (LA-4693)
analysis of irradiated coated-particle, for fission products, 22:39998
analysis of irradiated mixed oxide, for sodium, spectrochemical, 25:58344(R) (LA-4693)
analysis of irradiated moderated thermal, for aluminum and free acid, potentiometric, 24:26966
analysis of irradiated MSRE, for uranium by hydrogen reduction method, 24:13735 (ORNL-4466, pp 26-41)
analysis of irradiated oxide, design of thermobalance for, 21:23829
analysis of irradiated oxide, for fission products, 23:9308 (TRG-Report-1735)
analysis of irradiated oxide, identification of constituents in electron probe, 22:33214
analysis of irradiated urania, for fission-gas release, 21:41637 (KAPL-P-3368)
analysis of irradiated, burnup determination by isotopic, 22:37647 (EUR-3949)
analysis of irradiated, electron microprobe method for, 24:11442
analysis of irradiated, equipment and techniques for, 23:47370 (UCRL-71704)
analysis of irradiated, for fluorides in presence of uranium, methods for, 24:22576(T) (ANL-Trans-796)
analysis of irradiated, for fluorides in presence of uranium, methods for, 24:11423 (CEA-N-1148, pp 3-80)
analysis of irradiated, for krypton and xenon, gas chromatographic, 22:33258
analysis of irradiated, for neodymium, parameters for chromatographic separation for, 25:31788 (CEA-N-1419, pp 3-90)
analysis of irradiated, for neodymium-148 by neutron activation, 23:47415
analysis of irradiated, for plutonium, 23:33156
analysis of irradiated, for plutonium and uranium, comparison of methods for, 23:19658 (BNWL-CC-669)
analysis of irradiated, for plutonium-236 and uranium-232 by alpha spectrometry, 25:23521 (KFK-1128)
analysis of irradiated, for stable molybdenum isotopes as measure of burnup, 24:36171 (NP-18293)
analysis of irradiated, for trace amounts of plutonium-236 and uranium-232 by α spectrometry, 25:44336(T) (EURFNR-872)
analysis of irradiated, for uranium-232 and its daughters, 24:36169 (JUL-650-CA)
analysis of irradiated, methods for, 22:25321 (ANL-7375, pp 95-134)
analysis of irradiated, radiochemical, 24:42285 (NP-10335)
analysis of irradiated, radiochemical methods for, 25:23522 (SRARI-P-81)
analysis of LMFBR and MSRE, methods for, 25:10425 (ORNL-4636, pp 40-2)
analysis of LMFBR/FFTF, evaluation of methods for, 24:5589
analysis of MASURCA simulated, for chromium, iron, and nickel by titricolorimetry, 23:26158 (CEA-R-3760)
analysis of mixed oxide, for gas and water, effects of density on, 25:12924 (WHAN-SA-62)
analysis of mixed oxide, for rare earths, method for, 25:58344(R) (LA-4693)
analysis of mixed oxide, for sulfur, spectrophotometric, 25:58344(R) (LA-4693)
analysis of molten fluoride, spectrographic, 22:14430 (ORNL-4196, pp 55-9)
analysis of molten salt, delayed neutron techniques for, 24:18901(R) (LA-4320)
analysis of molten salt, for oxides by hydrofluorination, 23:9302 (ORNL-4343, pp 23-33)
analysis of molten salt, for uranium(III), hydrogen-reduction method for, 23:9302 (ORNL-4343, pp 23-33)
analysis of molten-salt, facility for spectrophotometric, 23:45182 (ORNL-4396, pp 129-209)
analysis of molten-salt, facility for spectrophotometric, 23:19693 (ORNL-4344, pp 109-99)
analysis of molten-salt, for bismuth, methods for, 23:45182 (ORNL-4396, pp 129-209)
analysis of molten-salt, for oxides, 22:14427 (ORNL-4196, pp 15-32)
analysis of MSRE, 21:23612(R) (ORNL-4037)
analysis of MSRE, chemical, 21:38497
analysis of MSRE, for oxide, 23:45182 (ORNL-4396, pp 129-209)
analysis of MSRE, for oxide by hydrofluorination, 24:13735 (ORNL-4466, pp 26-41)
analysis of MSRE, for oxides, 24:16486 (ORNL-4449, pp 96-163)
analysis of MSRE, for oxides and trivalent uranium, 23:19693 (ORNL-4344, pp 109-99)
analysis of MSRE, for trivalent uranium, 25:10434 (ORNL-4636, pp 7-13)
analysis of MSRE, for trivalent uranium by hydrogen reduction method, 23:45182 (ORNL-4396, pp 129-209)
analysis of MSRE, for U(IV)/U(III) ratio by voltammetry, 23:45182 (ORNL-4396, pp 129-209)
analysis of MSRE, for uranium, 23:19693 (ORNL-4344, pp 109-99)
analysis of MSRE, for uranium by separation and controlled-potential coulometric titration, 24:13737 (ORNL-4466, pp 89-93)
analysis of MSRE, for uranium, design of electrolytic cell for voltammetric, 24:13735 (ORNL-4466, pp 26-41)
analysis of nitric acid solutions of irradiated, for plutonium, coulometric, 24:31221 (ARH-SA-55)
analysis of oxide, evaluation of methods for, 24:26906 (LA-4407)
analysis of oxide, for boron, chlorine, and fluorine, 25:37268 (KFK-1360)
analysis of oxide, for oxygen by x-ray-diffraction measurements of lattice parameters, in-line, 25:2306(R) (ANL-7735)
analysis of oxide, for plutonium/uranium ratio, in-line x-ray fluorescence, 25:2306(R) (ANL-7735)
analysis of oxidized, for plutonium and uranium, chemical methods for, 23:2176 (KFK-701)
analysis of oxidized, for plutonium and uranium, chemical methods for, 23:6054(T) (EURFNR-525)
analysis of plutonium carbide—uranium carbide, for carbide and metal phases by metallography, 23:6717
analysis of plutonium- and uranium-containing, for fissionable materials by mass spectrometry, ASTM computerized method for, 25:28980
analysis of plutonium-containing, for plutonium and uranium, development of methods for, 23:37872 (EUR-4133)
analysis of prototype LMFBR, gaseous and passive neutron methods for nondestructive, 25:356(R) (LA-4523)
analysis of pyrolytic carbon coatings on particles of, by neutron activation or xenon counting, 23:13672 (GAMD-8788)
analysis of refractory metal—uranium dioxide-type, for trapped fission gases by γ spectroscopy, 24:9249
analysis of reprocessing solutions of, for technetium, standard for colorimetric, 25:54429
analysis of residual, in leached cladding by neutron activation and delayed neutron counting, 24:38799
analysis of Rover, for aluminum, aluminum oxides, and uranium, 24:2100 (IN-1316, pp 41-59)
analysis of solutions from dissolution of irradiated, for aluminum, spectrophotometric method for, 23:40535 (CEA-N-1044, pp 3-50)
analysis of solutions of, for added metals, corrosion products, and sulfuric acid, 25:57320
analysis of solutions of, for plutonium and uranium by x-ray fluorescence techniques, 22:44974 (KFK-747)

analysis of spent, for plutonium and uranium by destructive methods, 25:37269(T) (LA-tr-71-24)
analysis of spent, for plutonium and uranium by x-ray spectrometry, 23:45186
analysis of spent, for rhodium isotopic composition, 24:4849(R) (BNWL-1177)
analysis of spherical, at 40 atm helium, spectroscopic, 25:4013 (JUL-671-RW)
analysis of thorium and uranium, for rare earths by thermal neutron activation and radiochemical separation, 24:33661
analysis of unirradiated, for fissionable materials by neutron flux measurements, apparatus for nondestructive, 25:28988(P)
analysis of uranium, for plutonium by isotopic dilution mass spectrometry following TTA extraction, 23:17343
analysis of uranium—plutonium-carbides, etching techniques for, 21:42729(R) (LA-3745)
analysis of uranium-232-containing spent, for fission products, 23:7443 (K-1757)
analysis of zirconium-clad thorium, for thorium and uranium, 23:28677 (IN-1275)
analysis of, calorimetric and gamma counting methods for, 25:1(R) (GEAP-12114-1)
analysis of, chemical and radiochemical methods for, 23:34992
analysis of, development of calorimeters and gamma spectrometers for, 25:15916(R) (GEAP-12114-3)
analysis of, development of instruments for, 25:39404(R) (BHO-68-5)
analysis of, equipment and method for electron microprobe, 24:25001
analysis of, equipment for neutron-absorption, 24:16924(P)
analysis of, IAEA Second Panel Report on, 21:12287 (STI/DOC-10/62)
analysis of, referee methods for, 21:45067
analysis of, review on, 24:38703
analysis of, standard referee methods for, 25:23510
analysis using radiative neutron capture and fission γ-ray spectra, 25:3649 (KFK-1214)
annealing of carbon-coated microspheres of, equipment and methods for, 23:21926 (ORNL-TM-2495)
annealing of high-burnup coated urania and uranium carbide, postirradiation, 21:25630(R) (ORNL-4071)
annealing, inspection, and handling of irradiated particulate, design of apparatus for, 24:16738 (CONF-690910-, pp 420-34)
assay control and safeguarding of, nondestructive methods using neutron capture and fission, 24:39169(P)
assay of fast, dual spectrum fast—thermal reactor for, 25:54217
atmospheric re-entry of SNAP, thermochemical behavior in, 21:35649 (NAA-SR-12082)
availability and cost in western Europe, 21:21663
availability and sources of European, 1969 data tabulations of, 23:24392
availability in U. S, 21:38440 (BNL-50044)
availability of enriched uranium, 23:41559 (AD-684030)
balance parameters in fast, long-term variations in, 25:15377
behavior at high temperatures, (E), 23:18268 (BMwF-FBK-68-35)
behavior of high temperature fast oxide, use of analog system for determining, 23:19494 (CEA-CONF-1126)
behavior of impregnated spherical beryllium oxide, effects of Hertzian stresses on, 22:11052
behavior of various, radiation effects on, 23:40318 (NP-17868)
beta dose rates from neutron-irradiated uranium-235 carbide-particle, 21:15028 (USNRDL-TR-1082)
bibliography of nuclear science literature on, from eastern countries, 23:26313 (AED-C-12-18)
bibliography on advanced and high-temperature gas-cooled, 23:9120 (JUL-Bibl.-14)
bibliography on coated particle, 22:7913 (LA-3791)
bibliography on fast, 1958 to 1968, 24:14658 (CEA-Bib-149)
bibliography on plutonium, 22:1883(T) (ANL-Trans-523)
bibliography on thorium fuel cycle, 25:6401 (STI/PUB-21/39)
binder removal methods for particle-type, testing of gaseous, 23:19464(R) (GA-8200)
binders for carbon-coated particle-type, performance of multiple resin, 23:4170(R) (GA-8270)
binders for carbon-coated thorium carbide (ThC) particle-type, performance of multiple resin, 23:4169(R) (GA-8038)
binders for particle-type thorium oxide (ThO_2)—uranium oxide (UO_2), performance of multiple resin, 23:4168(R) (GA-7981)
book: Automatic Control of Technological Processes in Radiochemical Industry, in Russian, 25:6411
book: Dictionary of Fuel Technology, 24:10133
book: Dispersion Fuel Elements, 22:15205
book: Engineering for Nuclear Fuel Reprocessing, 23:414
book: Fast Reactor Technology: Plant Design, 21:17506
book: High Temperature Nuclear Fuels, 23:8261
book: High-Temperature Nuclear Fuel (in Russian), 23:30169
book: Irradiated Fuel Services and the Reactor Operator, 24:9465
book: Irradiation Effects in Nuclear Fuels, 23:24967
book: Reactor Material Science (In Russian), 23:43938
breeding of plutonium in, economics and power requirements to year 2010, 21:42771
breeding of plutonium, economics and power requirements to year 2060, 21:42777
breeding potential of steam-cooled fast breeder power reactor, effects of new plutonium 239-α data on, 23:17187(T) (EURFNR-586)
breeding rates by year 2000 in European Economic Community, 21:42742
breeding ratio for steam-cooled fast breeder reactors, effects of core shape and enrichment on, 22:27401 (BNWL-713)
brittleness of urania, factors affecting, 21:9235 (BNWL-SA-238)
bubble growth in, effects of re-solution process on limitation of fission gas, 25:40107
bubble-size distribution in mixed oxide fast, computer program for calculating, 25:32797
burnable poisons in, use in AGR, 21:27740
burnup analyses of, methods for, 22:7787 (AERE-R-5309)
burnup analysis by determination of zirconium-95, 25:8214
burnup analysis by isotope dilution mass spectrometric determination of molybdenum, 24:39002
burnup analysis by measurement of fission neutrons, nondestructive, 25:41757
burnup analysis by measurements of krypton-85 and xenon-133, 24:26994 (CEA-R-3889)
burnup analysis by neutron activation determination of neodymium-148, 25:15552
burnup analysis during continuous fueling, three-dimensional variational method for, 23:11337
burnup analysis for NRU, 24:16545(R) (AECL-3477)
burnup analysis in large recirculating fuel reactors, calculation method for, 22:14288 (AAEC/E-184)
burnup analysis of, 24:38703
burnup analysis of fast, 24:43935 (ANL-7650, pp 35-40)
burnup analysis of fast, 24:50439(R) (ANL-7675)
burnup analysis of JRR-1, 25:57320
burnup analysis of JRR-3-irradiated, destructive methods for, 24:20719
burnup analysis of low exposure aluminum—plutonium, for PRTR, 21:19460 (BNWL-CC-904)
burnup analysis of oxide, mass-spectrometric and radiochemical, 25:18359 (WCAP-3385-56(Pt.2))
burnup analysis of plutonium and uranium, methods for, 21:27828 (BNWL-SA-1168)
burnup analysis of plutonium, in heavy-water-moderated lattices, 21:14118
burnup analysis of, by x-ray spectrometric determination of rare earth fission products, 22:22653(R) (ANL-7419)
burnup analysis of, computer program for processing isotopic dilution measurements for, 25:20925 (BNWL-1555)
burnup analysis of, computer programs for, 21:38740 (BNWL-459)
burnup analysis of, destructive and nondestructive methods for, 24:36171 (NP-18293)
burnup analysis of, evaluation of methods for, 24:25007 (WCAP-6086)
burnup analysis of, gamma spectrometric, neutron dose, and fission track methods for, 24:46195
burnup analysis of, PROTEUS computer program for multi-dimensional, 22:53455 (BNWL-850)
burnup analysis using activatable tracers and neutron activation, 25:37318 (JUL-712-RE)
burnup analysis using METHUSELAH II code, 21:23586 (AEEW-R-399)
burnup and conversion of Dragon, mass spectrometer for determination of, 24:38748(R) (DP-Report-301)
burnup and cycle costs, TONG code for, 21:30287 (ORNL-TM-1633)
burnup and management of power reactor, analysis of optimum, (T), 23:4252
burnup and physics parameters of, use of mass spectrometer isotopic analysis for, 23:4462 (NP-17642)
burnup and replacement, analysis of design for, 21:35628
burnup calculation equations for, 22:1887
burnup calculations for continuous charge-discharge cycles, Bacchus code for, 21:2892 (EUR-3076.e)
burnup calculations for MTR-Phoenix, 22:14289 (BNWL-635)
burnup calculations for power reactors, space—time analog model for, 21:31986
burnup calculations for, effects of accuracies on nuclear data for, 21:25627 (JAERI-1122)
burnup calculations for, effects of increased computer capacity on, 23:47299 (CNM-R-2(Vol.2), pp 927-42)
burnup calculations for, using NOVA code, 21:21796 (AEEW-M-697)
burnup calculations for, ZODIAC-G code for multigroup multiregion, 25:34420 (BNWL-1559)
burnup calculations from ratio of europium-154 to europium-155 and neodymium-148 content, 23:38040
burnup calculations in water-cooled, water-moderated reactors, two- and three-dimensional programs for, 22:5935(T) (JPRS-42542)
burnup calculations using CRAMF and PHIXUP codes for, 21:40538 (APDA-202)
burnup calculations using OTTER-3 code, 21:21797 (AEEW-R-496)
burnup code for, two-dimensional BURNY, 21:32035 (RT/FI-(67)8)
burnup configuration of fissile and fertile, for increased fissile content in greater reactivity, 21:40644(P)
burnup detection of, sampling of recombiner water for, 21:35760
burnup determination by analysis for cesium-137, 22:30445(P)
burnup determination by fission product analysis in, 22:27477 (ANL-7375, pp 178-9)
burnup determination by selective sampling of spent cores, (E/T), 21:34119
burnup determination from uranium-235/uranium-238 ratio for, 23:47605
burnup determination in coated uranium-containing, γ spectroscopy nondestructive method for, 22:53460 (JUL-529-RX)
burnup determination in uranium oxide, by fission product γ spectrometry, 24:16464
burnup determination in, by isotope dilution mass spectrometry, 24:2101 (IN-1316, pp 76-84)
burnup determination in, computer program for elaboration of neodymium-148 measurements for, (T), 25:23531 (INR-1195)
burnup determination in, evaluation of methods for, 22:1880(R) (IN-1113)
burnup determination in, method for calculating, from mass spectrometry of neodymium stable isotopes, 25:10461
burnup determination in, methods development for, 22:24855(R) (IN-1157(Rev.))
burnup determination of BR-3 uranium and plutonium rods, 21:40695(R) (EURAEC-1886)
burnup determination of Shippingport Core 1, by analysis of residual uranium-235 content, 21:38477
burnup determination of, by isotope dilution and mass spectrometry of neodymium stable isotopes, 25:10469
burnup determination of, methods development for, (E), 22:25129(R) (IN-1178)
burnup determination, methods development for, 21:4413(R) (GEAP-5174)
burnup determination, methods for, 22:43670
burnup distribution in Agesta, 21:27760
burnup during initial operation of Rheinsberg power plant, PYTHIA and SIBYLLE program calculations of, 23:47143
burnup effects in FFTF, safety analysis for, 21:46938(R) (BNWL-501)
burnup effects on cerium dioxide—uranium dioxide and uranium dioxide—zirconium dioxide, 21:32951(R) (BMI-1798)
burnup effects on reaction-rate ratios in Yankee Power Reactor operating core, 21:23624 (WCAP-6066)
burnup equations of thorium and uranium, computer code for solution of, 21:31894 (AECL-2693)
burnup estimations from gamma spectra of fission products, 25:51387 (JAERI-13754)
burnup improvement by continual exchange of, in flat flux central core zone, (T), 22:22881
burnup in A2 gas-cooled heavy water-moderated power reactor, effects of plutonium-239 and plutonium-240 concentrations on thermal and epithermal spectra and, (T), 23:11186 (UJV-2027)
burnup in Agesta, measurement of, 21:23585 (AE-269)
burnup in boiling water reactors, two-dimensional method for analysis of, 25:18111
burnup in boiling-water reactors, methods for analysis of, 22:22737
burnup in EBR-2 plutonium-containing, analysis of, 23:4236
burnup in fast power reactors, FUMBLE code for calculation of, 25:23296 (GEAP-13599)
burnup in fast reactors of mixed-carbide, analysis of, 23:4238
burnup in fast reactors, effects on reactivity, (T), 21:21734
burnup in fast reactors, methods of determining, (E/T), 21:21755(R) (ANL-7302)
burnup in heavy water reactors, FPV-3 code for, 23:26050 (UJV-2140-R)
burnup in heavy water reactors, methods for analysis of, (E/T), 25:60093 (AECL-3995)
burnup in heterogeneous reactor lattice, calculations using LASER-code for, 21:21689
burnup in high temperature gas cooled, postirradiation analysis of, 21:38463(R) (ORNL-4133)
burnup in high-depletion cores, effects of swelling on, 21:25645
burnup in irradiation capsules, method of determining, 21:21758 (CONF-660511-, pp 6.4.1-31)
burnup in liquid metal cooled fast, calculation of, 24:24833 (BNWL-1324)
burnup in mixed, mass spectrometric studies on, 24:43934(R) (AECL-3556)
burnup in multizone light-water reactor cores, optimal control rod programming for maximum average, (T), 25:31584
burnup in pebble-bed reactors, 21:25612 (AAEC/TM-350)
burnup in pebble-bed reactors, calculation of beryllia—plutonia—urania, 21:13937 (AAEC/E-160)
burnup in plutonium enriched, comparison of ALTHAEA and ZODIAC computer programs for, 24:7353(R) (BNWL-1224)
burnup in pressurized-water reactors, determination of, 21:27758
burnup in reactors, accountability verification by reprocessing plant measurements, 25:15866 (NP-18575)
burnup in sodium cooled fast converters, effects on physics parameters of, (T), 25:51043 (JAERI-13505)
burnup in thermal reactors, CAROL-A code for analysis of, 24:50147
burnup in thermal reactors, Czechoslovak methods for calculation of, 22:22731
burnup in thermal reactors, French studies on, (E/T), 22:22732
burnup in thermal reactors, methods for calculation of, 24:52988
burnup in thermal reactors, review of Japanese studies on, 22:22735
burnup in thermal reactors, review of studies on, (E/T), 22:22711 (STI/PUB-172)
burnup in thermal reactors, review of U.S. studies on, 22:22733
burnup in thermal reactors, Swedish calculational methods for, 22:22736
burnup in thermionic space reactors, 21:15755 (N-66-37406)
burnup in water moderated homogeneous lattices, multigroup calculation of, 23:47325
burnup in Yankee Core I, one-group three-dimensional analysis of, 21:15723
burnup measurement from neutron resonance parameters, 24:39207 (IN-1317, pp 233-381)
burnup measurement on operating, design of device for, 22:10104(P)

burnup measurement on, by analysis for cesium-137 by radiochemical separation and γ spectrometry, ASTM method for, 25:29001
burnup measurements in Agesta reactor, 21:1154 (AE-244)
burnup measurements of Phoenix, 22:14289 (BNWL-635)
burnup measurements of, methods for, 21:40578 (TRG-Report-1494)
burnup measurements on, by analysis for cerium-144 and cesium-137, 24:33640
burnup measurements on, by analysis for neodymium-148 by chemical separation and mass spectrometry, ASTM method for, 25:28979
burnup measurements on, radiometric, 21:27899
burnup monitor for uranium oxide, possible use of molybdenum as, 22:12006(R) (ANL-7399)
burnup monitoring by molybdenum analysis, 25:10583(R) (AECL-3776)
burnup monitoring using molybdenum content, 24:22665(R) (AECL-3521)
burnup monitors for oxide, 22:39976 (ANL-7450, pp 108-11)
burnup of 1000 MW(e) LMFBR, effects of central void on, 22:9990(R) (BAW-1312)
burnup of alpha uranium, swelling factor dependence on, 21:45974
burnup of aluminum—plutonium, theory experiment correlation of, 21:38660 (BNWL-393)
burnup of carbide, metal alloy, and oxide fast, comparison of, 24:18668
burnup of ceramic, in EBR-II, hazards evaluation at 10.5 percent FIMA, 25:11533 (ORNL-TM-2635(Suppl.))
burnup of ceramic, use of gamma scanning technique for measuring, 21:38739 (AECL-2688)
burnup of coated-particle, fission gas release during high, 21:38463(R) (ORNL-4133)
burnup of enriched uranium-235, fission product yield analyses for determination of, 25:46342 (N-71-18496)
burnup of fast breeder, development of isotope dilution methods for determination of, 25:34352 (IN-1456)
burnup of fast reactor, analysis of optimum operational, (T), 23:4233
burnup of fast, analysis of, 21:13946(R) (ANL-7279)
burnup of fast, chemical state after, 24:5687
burnup of gas cooled coated particle, computer program for calculation of, 25:57021 (JAERI-Memo-4449)
burnup of heavy water moderated, effects on lattice and core physics parameters of, (T), 25:51046 (JAERI-13724)
burnup of heavy water-moderated reactor, effects of physics parameters on calculation of, (T), 22:44866
burnup of high temperature gas cooled, determination of optimum, (T), 24:43774 (DP-Report-211)
burnup of HTGR, 24:33760(R) (ORNL-TM-3015)
burnup of LMFBR-type reactor plutonium nitride (PuN)—uranium nitride (UN), analysis of, 23:4240
burnup of Mark 3 gas cooled, effects of core configuration and core management on, (T), 24:31069 (RD/B/N-1550)
burnup of mixed oxide, analysis of neutron cross section ratios from, 25:18098(R) (BNWL-1522-1)
burnup of MTR, gamma spectrometric determination of, 25:46434 (FMRB-36/71)
burnup of NPD, 21:27759
burnup of oxide, effects of thermal conductivity changes on, 23:32071
burnup of oxide, effects on shift in stoichiometry of high, 25:8137 (KFK-1181)
burnup of pebble bed type, calculation of cycle management procedures for optimum, 24:33310
burnup of pebble-bed, FRIZLE code for determining, 21:35536 (AAEC/E-173)
burnup of plutonium bearing, in graphite moderated power reactors, (E/T), 23:47202 (CNM-R-2(Vol.3), pp 1713-36)
burnup of power reactor, economics of, 25:37021
burnup of power reactor, effects of stretch-out operation on optimum economic, 25:37031
burnup of power, economics of, 25:60102
burnup of spherical heterogeneous pebble-bed reactors, description of variable opposing flow coolant channels for control of, 22:48700(P)
burnup of urania, effects on neutron flux in FR-2 during variations of, 21:30270
burnup of urania, nondestructive determination using spectrometric methods, 21:10221
burnup of uranium carbide and uranium dioxide, effects of cladding on, 22:11087 (AI-CE-76)
burnup of uranium carbide, methods of determining, 21:14109(R) (EUR-3123.e)
burnup of uranium dioxide, effects of boron carbide on, 22:4909
burnup of uranium dioxide, mass spectrometric determination of, 24:26968
burnup of uranium oxide (UO_2), evaluation program for high, (E), 24:46124(R) (GEAP-10160)
burnup of uranium, RCROSS program for resonance effects in, 21:23746 (ORNL-TM-1760)
burnup of uranium-235 in, determination by mass spectrometry, 21:23760
burnup of water moderated, BURNY-2 and BURNY-5 computer programs for calculation of, 25:48242 (RT/FI-(71)8)
burnup of, 3DDT computer program for, 24:47824 (LA-4396)
burnup of, analysis for neodymium-148 as measure of, 25:15485
burnup of, analysis of fission products for, 24:52926
burnup of, analysis using semiconductor Compton spectrometer, 21:6202 (SGAE-G-4/1966)
burnup of, analysis using silicon semiconductor gamma spectrometer, 21:39262(P)
burnup of, ARIADNE-1 perturbation code for calculating, 21:35579 (NAA-SR-12376)
burnup of, ASB computer program for, 24:20638 (KFK-1079)
burnup of, BASHAN computer program for calculations of, 25:48336 (AEEW-R-669)
burnup of, bibliography on, 22:33085 (AAEC/TM-449)
burnup of, bibliography on methods for calculation of, 24:2069 (WASH-1142)
burnup of, BURNUP computer code for calculating, 22:3929 (GEAP-5355)
burnup of, calculations for continuously refueled reactors, (T), 21:7957
burnup of, comparison of methods for determining, 21:20592 (CONF-660511-, pp 6.1.1-10)
burnup of, Compton spectrometer measurements of, 21:2876
burnup of, computer program for, 21:1220 (GEMP-432)
burnup of, computer program for calculating, 22:32425 (GA-8307)
burnup of, computer program for calculation of, 25:26060 (GEAP-5355-A)
burnup of, DBUFIT-1 computer program for, 24:33482 (BNWL-1396)
burnup of, design of control rods for more efficient, 21:35643(P)
burnup of, determination of cerium-144, cesium-137, and zirconium-95 for measurement of, 24:18913
burnup of, determination of fission product isotopes as measurement of, 24:38708(R) (DP-Report-270)
burnup of, determination of fission products for measurement of, 23:9308 (TRG-Report-1735)
burnup of, determination of neodymium-148 as measure of, 23:47415
burnup of, determination of plutonium-241 to plutonium-239 ratio for calculation of, 24:11461
burnup of, determination of ratio of europium-154 to europium-155 for monitoring, 23:47612
burnup of, determination using germanium gamma spectrometers, 21:21805
burnup of, determination using neodymium-148 activation, 21:17536(R) (EURAEC-1742)
burnup of, development of methods for determining, 23:23910(R) (IN-1277)
burnup of, effects of neutron cross section on analysis of, (T), 24:33250
burnup of, effects of reactor type on management procedures for optimum, 25:3867 (DP-Report-476)
burnup of, effects of variations in operation periods on, (T), 25:60216
burnup of, effects on core lifetime of non-uniform, (T), 25:37081 (UARAEE-83)
burnup of, evaluation of fission products for monitoring, 23:23910(R) (IN-1277)
burnup of, fast breeder, efficiency of, 25:54135 (A/CONF.49/P-709)
burnup of, FIPO code procedure for fission product depletion in, 25:48329 (RISO-M-1356)
burnup of, fission-product yields for determining, (E), 22:3690 (GEAP-5356)
burnup of, gamma spectrometric method for measurement of, 24:48863 (SGAE-PH-98/1970)
burnup of, mass spectrometric determination of, 21:27839
burnup of, measurements of plutonium-239 fission yields for determination of, 22:44680(R) (IN-1189)
burnup of, methods development for determination of, 21:19242(R) (IN-1064)
burnup of, methods development for determination of, 21:19241(R) (IDO-14681)
burnup of, methods for determining, 21:4434(R) (IDO-14678)
burnup of, nondestructive method for measuring, 22:39539 (AEET/NP-16)
burnup of, one-group diffusion calculations of, 21:15712
burnup of, optimization of, 25:46246 (KURRI-TR-75, pp 83-5)
burnup of, optimization of, (T), 25:46247 (KURRI-TR-75, pp 86-7)
burnup of, photoneutron production by fission product gamma radiation for scanning, 23:45217
burnup of, review of European American Committee on Reactor Physics studies on, 22:22880
burnup of, review of radiochemical methods for determination of, 21:25928 (UJV-1633)
burnup of, review of techniques for determination of, 25:26077 (INIS-mf-29)
burnup of, SQUIRREL computer program for, 24:43843 (EUR-4490)
burnup of, steady, 21:21632(R) (EURAEC-1618)
burnup of, use of gamma scanning and cobalt wire monitoring to determine, 22:16292 (RT/ING-(67)14)
burnup of, use of perturbation theory for calculation of, (T), 23:47313 (CNM-R-2(Vol.3), pp 1384-97)
burnup of, use of uranium-235/uranium-238 ratio for determination of, 24:259(T) (ANL-Trans-775)
burnup optimization of, using solid poisons, 21:42738
burnup parameters of fast, review of, 24:18660
burnup performance of fast reactor mixed-oxide, effects of smeared neutron density on, 23:4229
burnup synthesis calculations for, use of dynamic coordinate function technique for computer time optimization, 23:11348
burnup testing of urania—plutonia, in GETR, 21:38643
burnup theory for, discussion of approximations to, 22:7926
burnup verification of, by reprocessing plant measurements, 25:48880 (IAEA-R-877-F)
burnup, economics of actinide production in high, 24:18667
burnup, effects of reactor type and cycle management on actinide production in high, 24:18666
burnup, total rare earth analysis method for monitoring, 21:45005 (ANL-7325, pp 201-3)
burnups in fast, 2DB computer program for, 23:52444 (BNWL-831(Rev.1))
canning materials for, embrittlement mechanism of, 21:32883
canning pelleted cermet, by extrusion, 22:49814(P)
carbon activities in FBR development program plutonium carbide (PuC)—uranium carbide (UC), analysis of, 23:13500 (AI-AEC-12721, pp 255-60)
carbon activity in plutonium carbide—uranium carbide, optimization of, 23:22645 (AI-AEC-12744, pp 117-22)
carbon coatings for, reaction rate determination for steam and, 22:46911(R) (ORNL-4266)
casting methods for metallic, review of, 23:33933
casting methods for, review on, 23:41536
characteristics of ceramic and metallic, 22:33093 (KFK-700(Pt. II))
characteristics of ceramic and metallic, 22:53273(T) (EURFNR-472)
chemical aspects of fused salt, 25:28636
chemical equilibria of fission products in, calculation of, 21:25630(R) (ORNL-4071)
chemical equilibria with fission products, 22:25333 (ORNL-4229, pp 162-79)
chemical properties of molten chloride, 23:38045
chemical properties of molten salt, 23:37958
chemical properties of molten salt, 24:9277
chemistry of fast, 22:52257 (ANL-7425, pp 94-129)
chemistry of irradiated fast reactor, 24:50439(R) (ANL-7675)
chemistry of molten salt, 25:57298 (ORNL-4676, pp 73-138)
chemistry of, review on French studies on, 22:47225
cladding analysis techniques for Zircaloy-clad, 21:25745
cladding failure on, detection by fission-product cesium-137 counting, 25:58344(R) (LA-4693)
cladding for fast sodium-cooled, development of, 21:38457(R) (GEAP-5491)
cladding for LMFBR, development of vanadium-base alloy, 21:36839
cladding for, behavior in coolant loss accidents, 24:46703
cladding for, corrosion by boiling water, 24:23435
cladding for, development of vanadium alloy, 21:23659
cladding for, equipment and method for measuring tensile strength of, 25:8883
cladding for, evaluation of fabrication methods for stainless steel, 25:49376 (ORNL-TM-3416, pp 109-15)
cladding for, mechanical properties of, 21:30305
cladding for, neutron radiation effects on, 21:25617 (BNWL-SA-374)
cladding for, refractory-metal alloys for, 21:23589(R) (ANL-7308)
cladding for, specifications of stainless steel, 21:26833(P)
cladding for, testing in dynamic liquid metal loops, 24:36856 (BNL-50236)
cladding in refractory substances, method for preparation of, 21:35783(P)
cladding materials for plutonium nitride—uranium nitride and uranium nitride, compatibility of, 21:32951(R) (BMI-1798)
cladding materials for, evaluation of Hastelloy X as, 21:43580(R) (AGN-8232)
cladding materials for, mechanical properties and radiation effects on, 22:14149(T) (ORNL-tr-1764)
cladding materials for, review on properties of, 24:17275
cladding metals for, compatibility of uranium nitride with, 21:8144
cladding of pellet-type, deformation ridges in, 21:35778
cladding of, using zirconium alloys, 23:27033
cladding performance under compressive loads, 21:30101 (BNL-50010)
cladding performance under thermal cycling in sodium, 21:30101 (BNL-50010)
claddings for ball-type, performance under load in flowing sodium of, 21:6812
classification and handling of bulk, 23:36173 (EUR-4190, pp 25-52)
coating and consolidation of particulate, by deposition from decomposing hydrocarbons, 24:42209
coating by gas pyrolysis in fluidized beds, 22:15246(P)
coating by inductive plasma sputtering, 24:17225 (EUR-4398)
coating by vapor deposition, bibliography on, 21:32841 (K-L-6130-2)
coating contamination and distribution in carbon-coated BISO and TRISO, comparison of methods for determination of, 24:11449 (GA-9608)
coating contamination and distribution in particles of TRISO, 23:13672 (GAMD-8788)
coating contamination by uranium in pellet-type, effect of temperature on, 22:39900 (GAMD-8325)
coating development for particle type, 24:18674(R) (NP-18148)
coating elasticity on particulate, methods for measurement of, 23:27164 (JUL-562-RW).
coating for particulate uranium dicarbide, crystal structure of pyrolytic carbon, 21:6883 (INR-753/IV, II/C)
coating for thorium carbide—uranium carbide, diffusion of thorium and uranium in pyrolytic carbon, 23:41602 (GAMD-9056)
coating of high-temperature gas-cooled, with carbon—hydrogen—silicon, method for, 24:8078(P)
coating of high-temperature particle-type, fast neutron radiation effects on silicon carbide (SiC), 23:4459 (GAMD-8415)
coating of microparticulate thorium dioxide—uranium dioxide, fluidized bed method for pyrolytic carbon, 23:14384
coating of microspheres of, with multiple pyrolytic carbon layers at 1100 to 1500°C, deposition method for, 25:29928(P)
coating of particle-type, fabrication and testing of pyrolytic carbon-silicon carbide-pyrolytic carbon trilayer laminated, 23:9179 (NP-17696)
coating of particles of, by carbon deposition from propane in fluidized bed, 21:13241 (ORNL-TM-1649)
coating of particles of, development of bonded beds for, 24:19052(R) (ORNL-TM-2886)
coating of particles of, with pyrolytic carbon and silicon carbide, 24:42196 (DP-Report-151(Pt.2))

coating of particles of, with pyrolytic carbon and silicon carbide, method for, 23:38944(P)
coating of particles of, with pyrolytic carbon, fluidized-bed method for, 23:38944(P)
coating of particles with pyrolytic carbon, in TURF, 21:13227 (ORNL-3970, pp 209-22)
coating of particles with pyrolytic carbon, studies, 21:13226 (ORNL-3970, pp 150-63)
coating of particulate carbide, design of fluidized bed for, 24:42191 (DP-Report-140)
coating of particulate thorium carbide—uranium carbide, parameters for carbon, 24:39688 (DP-Report-274)
coating of particulate uranium dioxide, with chromium or chromium carbide in fluidized bed, 23:20533 (KFK-787)
coating of particulate, by pyrolysis of methane or propene in fluidized beds, 25:16561 (JUL-686-RW)
coating of particulate, by pyrolyzed silicon carbide, 22:743(P)
coating of particulate, by vapor deposition of pyrolytic carbon, 23:39028(P)
coating of particulate, computer analysis of density variations in carbon, 24:42202 (DP-Report-407)
coating of particulate, development of materials for, 24:25761(R) (BMI-1823)
coating of particulate, development of method for pyrocarbon, 24:48872 (DP-Report-361)
coating of particulate, development of method for HTGR recycle process, 24:2985(R) (ORNL-TM-2765)
coating of particulate, engineering-scale system for pyrolytic carbon, 22:4317
coating of particulate, method for carbon, 23:51099(P)
coating of particulate, method using pyrolytic carbon, 23:41703(P)
coating of particulate, method using pyrolytic carbon, 21:1937(P)
coating of particulate, optimization of fluidized beds for, 25:11479 (JUL-669-RW)
coating of particulate, performance of pyrolytic carbon, 24:46814 (DP-Report-422)
coating of particulate, properties of pyrolytic silicon carbide for, 24:17376
coating of particulate, using organic silicon compounds, 23:36184(P)
coating of particulate, with pyrolytic carbon, 22:8822 (ORNL-4170, pp 163-72)
coating of spherical particles of, gas pressure measurements in fluidized bed method for, 25:2767 (DP-Report-378)
coating of spherical particulate, with pyrolytic carbon, using entrained-fluidized-beds, 22:23212 (ORNL-TM-2113)
coating of uranium carbide, by niobium vapor deposition, 23:44009(P)
coating of, process using silicon carbide, 21:6871(P)
coating on particulate, reactions of water with pyrocarbon, 23:6715 (ORNL-4324)
coating on particulate, structure of pyrocarbon and silicon carbide, 25:4863 (DP-Report-574)
coating on spherical particulate, mathematical solution for strains and stresses in pyrolytic carbon, 25:38016
coating particles of plutonium nitride—uranium carbide with pyrolytic carbon, 21:28820
coating particles of, in fluidized bed under reduced pressure, 21:32964
coating particles with pyrolytic graphite, fluidized-bed process for, 21:18319(P)
coating particulate carbide, development of equipment for, 23:16511 (ORNL-4275, pp 57-87)
coating particulate, using pyrolytic carbon, 22:21757(P)
coating particulate, using pyrolytic graphite, 23:8306 (ORNL-4370, pp 221-9)
coating removal and replacement using hot carbon-carrying gases, method for pyrolytic graphite, 24:14885(P)
coating removal from particulate, one-step process for, 22:12500(P)
coating spherical particulate, using rhenium—tungsten alloy, 22:45811(P)
coating with carbon of particulate type, temperature distribution in fluidized bed, 24:39686 (DP-Report-266)
coating with pyrolytic carbon at high deposition rates using propane or propene, 21:36909
coating with pyrolytic carbon in fluidized bed at high temperatures, 23:38945(P)
coating with pyrolytic carbon of particulate, fluidized bed method for, 23:18261(P)
coating with pyrolytic carbon of particulate, in TURF,, 22:8823 (ORNL-4170, pp 211-26)
coating with pyrolytic graphite, fluidized bed method for, 22:45804 (SGAE-M-16/1968)
coating with pyrolytic graphite, method for, 24:39695(P)
coatings for 1000 MW(e) HTGR-type reactor, effects of fast neutrons on vapor-deposited silicon carbide (SiC), 23:19464(R) (GA-8200)
coatings for disk- and sphere-types of, radiation effects on pyrocarbon, 24:14979
coatings for gas cooled particle type, fission product diffusion in, (E/T), 25:51097 (JUL-752-RG)
coatings for HTGCR, effects of methane on pyrolytic carbon, 21:42761
coatings for particle type, fission product diffusion in, 23:34896(R) (GA-8356)
coatings for particle type, neutron burst technique for thermal conductivity measurements on pyrocarbon, (E) , 25:39358
coatings for particle type, uranium content in carbon, 23:34896(R) (GA-8356)
coatings for particulate, anisotropic structure of pyrolytic carbon, 23:34111(T) (ORNL-tr-2127)
coatings for particulate, estimation of stresses in compressed shell-type brittle, 23:34084(T) (ORNL-tr-2128)
coatings for particulate, hardness of pyrolytic carbon, 23:6727
coatings for thorium carbide—uranium carbide, thermal conductivity measurements by fission couple method on carbon, 23:41727 (LA-4165)
coatings for, development of barrier, 21:44830(R) (GA-7396)
coatings for, development of buffer, 21:38447(R) (GA-6830)
coatings for, eddy current techniques for measurement of anisotropy of pyrolytic carbon, 22:46911(R) (ORNL-4266)
coatings for, techniques for applying, 23:37839(P)
coatings of particle type, measurement of fission product and heavy metal concentrations in pyrolytic carbon, (E), 24:38543 (JUL-639-RG)
coatings of spherical particulate, model of stresses in pyrolytic and silicon carbide, 23:16536
combustion of graphite—uranium, in fixed or moving bed, kinetics of, 21:4601
combustion of, effects on nuclear accidents, 21:14120
compacting of coated particle, method for use of centrifugal force for, 25:31679(P)
compacting of powdered, vibratory method for, 23:44000
compatibility of carbide and nitride, with cladding materials, 23:41534
compatibility of carbide and nitride, with stainless steel at high temperature, 24:51218 (CEA-CONF-1589)
compatibility of carbide and oxide, with sodium and water, 25:35550
compatibility of carbide, molten salt, and oxide, with cladding materials, 25:35550
compatibility of carbide-type, with cladding materials, 22:21759 (LA-3799)
compatibility of ceramic, reactor environmental, 22:33093 (KFK-700(Pt. II))
compatibility of ceramic, reactor environmental, 22:53273(T) (EURFNR-472)
compatibility of ceramic, with cladding materials, 23:45989
compatibility of ceramic, with sodium, 24:27035 (RT/ING-(69)8)
compatibility of intermetallic uranium compounds with refractory materials, 21:40675(R) (IN-1083)
compatibility of mixed-carbide, with stainless steel-clad at 800°C, 22:53463(R) (UNC-5217)
compatibility of molten-salt, with graphite and Hastelloy N, 22:25374 (ORNL-4229, pp 22-49)
compatibility of sodium-bonded carbide and nitride, with cladding materials, 22:27487(R) (LA-3880)
compatibility of sodium-bonded fast, with cladding materials, 22:6138(R) (LA-3820)
compatibility of sodium-bonded, with Type 304 stainless steel cladding at 650 to 1000°C, 23:41726 (BNWL-1101)
compatibility of stabilized uranium—plutonium—monocarbide, with stainless steel, 21:38488
compatibility of uranium carbide, with jacket materials at 600 to 700°C, 23:24994
compatibility of uranium carbide, with silicon carbide coating, 24:13832
compatibility with Type 304 stainless steel at 650 to 830°C, carbon-14 tracer studies of, 25:4739 (JAERI-Memo-4132)
compatibility with water vapor of silicon carbide coated, 22:46911(R) (ORNL-4266)
composition of dissolved irradiated, calculation of plutonium and uranium isotopic, (T), 24:2068 (NP-18021)
composition of fast power reactor, calculation of equilibrium, 23:19497
composition of irradiated, methods for determining, 24:409
composition of molten-salt, 22:47112 (ORNL-4254, pp 88-173)
composition of uranium, for nuclear power plants, 23:48464
compressibility of fused fast oxide, determination by sonic tests, 23:39065 (BNWL-1058, pp 5.1-58)
concentration as a function of burnup of, 21:23621 (UJV-1736)
conference on carbide-type fast breeder, Karlsruhe, Oct. 1969, 24:17226 (KFK-1111)
conference on ceramic, Washington, D.C., May 3 to 8, 1969, 24:10134
conference on economics of, Gottwaldov, Czechoslovakia, May 27 to 31, 1968, 24:11104 (STI/PUB-188)
conference on nuclear and engineering aspects of ceramic, Harwell, England, Oct. 25 to 27, 1965, 21:20548
conference on procurement and management of, Oklahoma City, Oklahoma, May 23 to 24, 1968, 22:51108
conference on production of, Essen, Germany, March 26, 1969, 24:32357
conference on recycling of, Gatlinburg, Tenn., May 4 to 7, 1970, 24:30002 (CONF-700502)
conference on reprocessing of irradiated, Fontenay-aux-Roses, France, November 11 to 14, 1967, 23:47597
conference on reprocessing of, Ames, Iowa, August 25, 26, 27, 1969, 23:38023 (CONF-690801)
conference on reprocessing of, Karlovy—Vary, Czechoslovakia, February 26 to March 2, 1968, 23:38040
conference on shipping of spent, Atlanta, Ga., Feb. 5 to 6, 1970, 24:36536 (CONF-700207-(and Add.))
conference on shipping of spent, Osaka, Japan, March 11, 1969, 24:29481 (KURRI-TR-68)
configuration and distribution in flattened-flux slab reactors, effects of reflectors on, (T), 21:21775 (UJV-1660)
consumption by 2000 of, analysis of U. S. and EURATOM power, 22:35513
consumption for electric power generation, predictions to 1985 of US, 22:48958
consumption index for power reactor uranium, effects of reprocessing and plutonium production on economics of, (T), 23:17193
consumption rate for power to year 2010, prediction of, 21:42771
containers for liquid-plutonium, corrosive effects of, 21:36787 (LA-3631)
containment characteristics in gaseous-core nuclear rockets, effect of buffer layer velocity and chamber length-to-diameter ratio on, (E), 22:37513(R) (N-68-16664)
containment characteristics in gaseous-core rocket reactors with confined radial outflow and superimposed axial flow, (E/T), 22:37514 (N-68-17131)
containment in gaseous core rockets, turbulent coaxial-flow analysis of, (E/T), 24:33470
containment in open-cycle gaseous rocket reactors, characteristics of radial-outflow vortexes for, (E), 22:39861 (N-68-18243)
containment of gaseous, bibliography on vortex flow for fluid dynamic, 23:2085(R) (N-68-28813)
containment of gaseous, in vortex-stabilized rocket reactors, (E/T), 23:2086(R) (N-68-29503)
control system for rocket reactor systems, analysis of optimal, 21:40655 (SC-DC-67-1916)
conversion of oxide, to carbide, plasma torch reactor for, 24:44060 (ANL-7650, pp 1-14)
conversion ratio determination by selective sampling of spent cores, (E/T), 21:34119
conversion ratio determination for water-moderated mixed-oxide, 22:53454 (BNWL-828)
conversion ratio for gas cooled particle type, measurement of relative, 25:10217
cooling age of irradiated, determination by gamma count rates, 22:45831(P)
cooling of coated particle, direct method for helium, 25:57645
core diffusion in silicon carbide-coated particles of thorium carbide—uranium carbide, parameters of, 23:18270 (GAMD-8724)
corrosion by potassium and sodium, review on, 23:45991
corrosion mechanisms of ceramic and metallic, review of, 23:9262
corrosion of gas cooled pebble bed, at high temperatures, 25:36980 (JUL-725-RG)
corrosion of metallic, 21:30216
corrosion of plutonia—urania, factors affecting in high-temperature steam and water, 21:1927 (NUMEC-3463-13)
corrosion testing of zircaloy-clad uranium silicide, in 300°C water, 23:12388 (AECL-2718)
corrosive effects of ceramic—sodium paste-type, on stainless steel at 1400°F, 22:2573
corrosive effects of molten salt, on Hastelloy N, 23:37958
cost analysis for water cooled power reactors, 25:10100
cost analysis in U. S. for 1971 to 1985, 25:36861
cost and demand through 1980, 23:7649
cost and production rates of fast breeder, predictions on, 23:18193 (DUN-AOP-92)
cost factors for plutonium, 22:44841 (WASH-1082)
cost factors of enriched uranium, 21:14287 (RT/EC-(66)1)
cost of uranium, 22:27927
cost of, computer analysis of factors affecting, 25:2602 (ORNL-4570, pp 191-4)
costs calculations, 21:14119
costs of, effects of fuel cycle on, 24:11129
costs of, estimation form for, 24:13553
crack configurations in coated-particle, 22:11049
creep and expansion of molybdenum—uranium-base alloy, effects of trace additions of aluminum and tin on, 23:36170
creep measurements on bulk oxide, computer analysis of in-pile, 21:35591 (WAPD-TM-687)
creep measurements on fast, irradiation capsule for in-pile, 25:44086(T) (EURFNR-853)
creep of ceramic, 25:48361
creep of ceramic, mathematical analysis of, 23:20546 (BMI-1857, Sect.C)
creep of fast, effects of fission process on, (E/T), 25:44118(R) (BMI-1905)
creep of fast, effects of temperature distribution on in-pile, (E/T), 25:41415
creep of oxide, factors controlling, 25:6890 (BMI-1886, Sect. C)
creep of thorium oxide, thorium oxide—uranium oxide, uranium oxide, and zirconium oxide—uranium oxide, at 1600 to 2150°C, 23:41728 (WAPD-TM-751)
creep of, design of in-pile capsule for measuring, 25:11464 (KFK-1281)
creep of, model for in-pile, 25:6890 (BMI-1886, Sect. C)
creep swelling in ceramic, continuum dilatation model for, 22:2688 (WAPD-TM-649)
critical dimensions of homogeneous, spheres containing uranium-235, uranium-235, and carbon in various proportions, 22:32975 (LA-3883)
critical mass reduction determination for, 21:23606 (LA-3651)
criticality calculations for enriched metal, in water lattices, 24:31471
criticality of full and partial loadings of, in EBWR, (E/T) , 21:7956
criticality of heavy water-moderated, in PRCF tests, 21:8069
criticality of uranium hexafluoride, in Cavity Reactor Critical Experiment, 21:14072 (GEMP-472)
criticality testing of plutonia—urania, in lattice variations, 21:38672 (WCAP-3726-1)
crush strength of particulate, apparatus for measuring, 21:32040
crushing of intermetallic UAl/sub x/, improved method for, 23:36052
cycle analyses for high-temperature breeders, 21:13979 (JUL-382-RG)

cycle analysis and costs for crossed-progeny systems, 21:21670
cycle analysis criteria for use in nuclear materials safeguards systems, 23:24058 (KFK-900)
cycle analysis for fast breeder, collapsing method effects on spatial mesh data for, (T), 25:60100
cycle analysis for Fort St. Vrain Power Reactor, 21:27670(R) (GA-7086)
cycle analysis for Fort St. Vrain Power Reactor, 21 38451(R) (GA-7314)
cycle analysis for gas-cooled reactors, 21:5614 (GA-7276)
cycle analysis for high-temperature gas-cooled reactors, 21:15794
cycle analysis for plutonium, in fast reactors, 21:21804
cycle analysis for thorium high-temperature reactors, 21:15743
cycle analysis for thorium, in heavy water-moderated organic-cooled systems, 21:5600(R) (BAW-393-8)
cycle analysis for, CITATION code for, 25:57183 (ORNL-TM-2496(Rev.2))
cycle analysis of advanced thermal, in Japan, 21:25675
cycle analysis of fused fluoride, for breeders, 21:12187
cycle analysis of plutonium, for thermal reactors, 22:19669 (BNWL-624, pp 2.1-32)
cycle analysis of, economic effects of market structure on, 21:40565 (NP-16898)
cycle analysis of, for pressurized-water reactors, 21:7949
cycle calculations for conceptual 1000 MW(e) LMFBR, use of FABROC and SFBROPT computer programs for optimum economic, 24:1970 (WARD-2000-96)
cycle capabilities and evolution in western world, review on, 23:18203
cycle capacities for nuclear industry, economics of, 21:46846 (EURFNR-311)
cycle comparisons for FORATOM fast, 22:3861
cycle component costs for power reactors, long-range estimates of time-dependent, 25:39265 (A/CONF.49/P-60)
cycle cost analysis for high temperature gas-cooled reactors, equilibrium, 21:13970 (GA-7126)
cycle cost calculations for, description of computer programs for, 24:16194
cycle cost data for, from 1970 to 2020, 23:365 (ORNL-4272, pp 225-37)
cycle cost predictions to 1980 for US power, 24:11121
cycle costs and requirements for molten salt, 24:18683
cycle costs for, 21:46968
cycle costs for 1000-MW(e) fast reactor, 21:17459 (NAA-SR-11378(Vol.1))
cycle costs for 600 MW(e) plant in South Korea, 24:36042
cycle costs for batch refueling in power reactors, method for calculation of, 25:31585
cycle costs for beryllium oxide—graphite moderated pebble bed systems, 24:11138
cycle costs for high temperature gas cooled, multigroup point depletion calculation of, 23:4219 (ORNL-TM-2173)
cycle costs for high temperature pebble bed reactors, 24:29030
cycle costs for HWOCR, 21:23610 (ORNL-3921)
cycle costs for light-water power reactors, evaluation of, 21:5628 (ORNL-P-2532)
cycle costs for medium-size water cooled reactors, future trends in, 24:28913
cycle costs for power, effects of local conditions on, 24:16192
cycle costs for power, effects of money availability on, 24:33315
cycle costs for power, fuel supplier methods for calculating, 24:16195
cycle costs for THTR uranium-235 and thorium-232 pebbles, 23:21442
cycle costs for THTR, effects of reprocessing methods on, 23:21445
cycle costs for water cooled and moderated, 24:31080 (CONF-700502-, pp 522-33)
cycle costs for, computer program calculation of, 25:36862 (BNWL-462)
cycle costs for, effect of load factor distribution on, (T), 24:16205 (SGAE-RT-22/1969)
cycle costs for, effects of core management plans on, 24:22472 (AD-699316)
cycle costs for, methods for international extrapolation of UK, 24:16196
cycle costs in boiling water reactors, accelerated exhaustive search algorithm for optimization of, 24:18680
cycle costs in heavy-water moderated boiling water cooled Cirene-type, 24:11140
cycle costs in marine reactors, comparison of Phoenix and enriched uranium, 23:2096 (BNWL-851)
cycle costs in power reactors, effects of various supply schemes on, (T), 25:1905
cycle costs in pressurized water reactors, effects of fuel management schemes on, (T), 24:18679
cycle costs of aluminum—uranium alloys for 5-MW research reactors, 21:14093
cycle costs of hydrogen—uranium—zirconium alloys for 5-MW research reactors, 21:14093
cycle costs of plutonium, 21:30107 (BNWL-SA-776)
cycle costs of thorium—uranium, in single fluid MSBR, 24:11204
cycle costs of urania for 5-MW research reactors, 21:14093
cycle costs of, effects of long-term plutonium value changes on, 21:25741 (SGAE-RT-10/1967)
cycle costs of, methods of reducing, 21:13978 (INR-723/IX/R)
cycle costs, method for calculating, 22:53273(T) (EURFNR-472)
cycle costs, methods for calculating, 22:32773 (KFK-700(Pt. VII))
cycle development for, 21:19420
cycle development for Bonus advanced core, 21:19348(R) (CEND-265)
cycle development for commercial Magnox power stations, 21:27727
cycle development for HTGCR, 21:7947
cycle development for mixed oxide fast, 25:31533(R) (ANL-7798)
cycle development for thorium, 24:33760(R) (ORNL-TM-3015)
cycle development for thorium—uranium, 21:30207
cycle development for Thorium-HWOCR program, July to Sept. 1966, 21:13948(R) (BAW-393-9)
cycle development for, program for, 25:19260(R) (ORNL-4629)
cycle development for, review of worldwide, 25:18603
cycle development in Belgian industry, 23:52500
cycle development in Belgium, review of, 23:21580
cycle development in Japan, 25:18555
cycle development in Japan, technical and economic factors in, 24:31072
cycle development in U.S., government and industry roles in, 24:47816
cycle economics during declining capacity factor conditions, effects of fuel management on, (T), 25:41453
cycle economics for boiling and pressurized-water reactors, 21:35605
cycle economics for CIRENE type reactors, effects of fuel type, enrichment, and length of irradiation on, 23:52358
cycle economics for combination breeder-converter, with crossed progeny fueling, (T), 24:46066
cycle economics for fast breeder, 22:48635 (BNWL-SA-2052)
cycle economics for fast breeder, methods for calculating, 24:11132
cycle economics for fast power reactors, effects of neutron data uncertainties on, (T), 23:5779
cycle economics for fast-thermal reactor complexes, analysis of re-use, 22:42162(R) (BNWL-254)
cycle economics for Fort St. Vrain alternate ring feed/breed concept, 23:9094 (GAMD-7691)
cycle economics for gas-cooled unclad urania-graphite reactor, 21:30161 (ORNL-TM-1789)
cycle economics for graphite moderated high temperature gas cooled, 24:11139
cycle economics for heavy water breeders, cost comparisons for, 23:43126
cycle economics for heavy water moderated power reactors, 23:21483 (NIJS-P-228)
cycle economics for high temperature gas cooled, 24:31078 (CONF-700502-, pp 2-11)
cycle economics for high temperature gas-cooled, 21:44830(R) (GA-7396)
cycle economics for high temperature pebble bed plutonium, calculations and predictions for, 23:21443
cycle economics for high-temperature gas-cooled reactors, 21:38505
cycle economics for light water, effects of burnup on, 23:28384
cycle economics for liquid metal cooled fast breeder, 24:31079 (CONF-700502-, pp 12-29)
cycle economics for liquid plutonium, 21:31940 (LA-3655)
cycle economics for LMFBR, effects of plutonium and uranium markets and reprocessing on, 24:18596
cycle economics for Phoenix fuels for marine reactors, 22:14289 (BNWL-635)
cycle economics for plutonium-enriched water cooled, effects of transuranium isotope production on, (T), 25:41451
cycle economics for power plants in Japan, 24:11135
cycle economics for power reactors, computer methods for optimization of, 25:39268 (A/CONF.49/P-75)
cycle economics for pressurized-water power reactors, effect of uranium-236 and neptunium-237 on uranium, 22:37447 (MIT-2073-6(Vol.2))
cycle economics for pressurized-water power reactors, effect of uranium-236 and neptunium-237 on uranium, 22:37446 (MIT-2073-6(Vol.1))
cycle economics for self-sustaining mixed fast and thermal systems, (T), 25:3888 (DP-Report-581)
cycle economics for steam-cooled fast breeder reactor, effects of outlet steam pressure on, 22:27401 (BNWL-713)
cycle economics for thermal power reactors, effect of neptunium-237 and uranium-236 on value of feed uranium in, (T), 22:46903 (MIT-2073-7)
cycle economics for various reactor type, 24:11128
cycle economics for, effects on power production costs of, 22:46938
cycle economics in Czechoslovakia of, 24:11124
cycle economics in Europe, effects of reprocessing costs on future, 25:1971
cycle economics in high-temperature gas-cooled reactors, 21:27672 (GAMD-4583)
cycle economics of metallic, 21:40528 (ANL-7290, pp 139-69)
cycle economics of plutonium, 22:39776 (JAERI-1154)
cycle economics of plutonium carbide and plutonium oxide, 21:27686 (KFK-567)
cycle economics of power plants in Japan, evaluation of long range, 24:11136
cycle economics of pressurized water, effects of in-core fuel element management on, 24:18528
cycle economics of uranium-thorium, in thermal near-breeders, 22:42156 (AECL-3081)
cycle economics of, effects of radioactive waste processing and utilization on, 23:11620
cycle economics of, effects on world nuclear power, 21:10156
cycle economics, comparison with total cost of nuclear power of, 24:11126
cycle economics, effects on power costs of, 22:27438
cycle economics, procedure for optimization of, 22:32773 (KFK-700(Pt. VII))
cycle economics, procedure for optimization of, 22:53273(T) (EURFNR-472)
cycle economy for central power station, 22:7830
cycle efficiency of, analysis of power production from, 22:7826
cycle evaluation for mixed oxide thermal, 24:33311
cycle evaluations for pebble bed, method based on perturbation theory for, 21:25609 (AAEC/E-161)
cycle facility for, operation of, 21:42725(R) (ANL-7357)
cycle facility for, operation of Argonne, 21:21755(R) (ANL-7302)
cycle for beryllium oxide (BeO)—plutonium oxide (PuO_2)—thorium oxide (ThO_2), analysis of optimum economic, (T), 23:13503(R) (GA-6532)
cycle for breeder, characteristics of continuous loading, 24:43709 (DP-Report-249)
cycle for fast breeder and thermal, economics of, 24:18662
cycle for fast breeder, accuracy of space collapse techniques for multigroup calculations of, (T), 25:5965
cycle for fast breeder, chemical processing requirements for, 25:31568(T) (EURFNR-823)
cycle for fast breeder, effect of burnup model parameters on economics of, (T), 24:46065
cycle for fast breeder, use of thorium and U-233 in, 21:14033
cycle for fast, economic analysis of, (T), 24:33351 (SRARI-P-11)
cycle for fast, PHENIX computer program for analysis of optimum, 24:29014 (LA-4231)
cycle for fluid and molten salt, computer program for calculation of optimum, 25:57048 (ORNL-TM-3359)
cycle for Fort St. Vrain Power Reactor Unit 1 thorium carbide (ThC_2)—uranium carbide (UC_2), analysis of optimum, 23:4167(R) (GA-7939)
cycle for Fort St. Vrain Power Reactor Unit 1 thorium carbide (ThC_2)—uranium carbide (UC_2), analysis of optimum, 23:4169(R) (GA-8038)
cycle for Fort St. Vrain Power Reactor Unit 1 thorium carbide (ThC_2)—uranium carbide (UO_2), analysis of optimum, 23:4170(R) (GA-8270)
cycle for Fort St. Vrain Power Reactor Unit 1, analysis of optimum 4 year and 6 year, 23:47169(R) (GA-9440)
cycle for heavy water moderated power reactors, economic factors for thorium, 25:48255 (CONF-680989-, pp 52-9)
cycle for heavy water-cooled and -moderated reactor, analysis of economics of thorium, (E/T), 22:30248
cycle for high temperature gas cooled power, comparison of design studies for optimum, 23:37508
cycle for high temperature gas cooled power, development of optimum economic, 23:37513
cycle for HTER, characteristics and cost analysis for, 24:16197
cycle for liquid metal cooled fast breeder, analysis of optimum economic, 24:46062 (BNWL-965)
cycle for on-load refueled breeder reactors, use of digital computer for optimum, 23:13507
cycle for power reactor, calculation of fuel exposure distribution for, (T), 23:47314 (CNM-R-2(Vol.3), pp 1398-1406)
cycle for power reactor, calculation of optimum 60 year, 25:3881
cycle for power reactor, development in Europe of, 25:59901
cycle for power reactor, economics of, 24:38389 (CONF-700317, Paper 19)
cycle for power, analysis of optimum economic, 24:33314
cycle for uranium, description of typical, 22:14312
cycle for water cooled plants, technical and economic status of, 25:37034
cycle for water cooled reactors, future cost trends for, 24:29032
cycle for, economics of reprocessing phase of, 24:46463
cycle for, material accounting system for safeguards in, 25:51748 (A/CONF.49/P-415)
cycle for, OPTIM computer program for optimum, 23:21562 (BNWL-991)
cycle for, optimum control elements programming in equilibrium, 24:33557
cycle for, qualitative safeguards methods for fissionable material control in, 25:23754 (KFK-1108)
cycle for, technology for development of economic, 25:18054
cycle in HTGR-type reactors of, computer program for optimum, 23:4244
cycle in light water power reactors, financial aspects of, 22:16227
cycle management calculations for CVTR, 21:31930(R) (CVNA-276)
cycle management during startup of fast breeders, in-core, (T), 25:6054
cycle management for 1000 MW(e) HTGR-type reactor, analysis of optimum, 23:4168(R) (GA-7981)
cycle management for 1000 MW(e) HTGR-type reactor, analysis of optimum, 23:4166(R) (GA-7801)
cycle management for 1000 MW(e) HTGR-type, analysis of optimum, 23:19464(R) (GA-8200)
cycle management for 1000 MW(e) Pickering-type heavy water-moderated reactor, computer program analysis of optimum economic, 22:53264 (BNWL-833)
cycle management for boiling reactors, calculation of optimum, 25:54085 (A/CONF.49/P-312)
cycle management for conceptual 640 MW(e) prismatic core gas cooled, 25:54130 (A/CONF.49/P-346)
cycle management for conceptual MW(e) HTGR, 23:45053(R) (GA-9372)
cycle management for fast reactor, model analysis for optimum, (T), 23:47312 (CNM-R-2(Vol.3), pp 1348-67)
cycle management for gas cooled and heavy water moderated pressure tube power reactors, calculation of optimum economic, 25:54134 (A/CONF.49/P-497)
cycle management for gas cooled coated particle, analysis of optimum, 24:28986(R) (GA-9130)
cycle management for gas cooled particle type thorium, 25:1891

cycle management for gas cooled, statistical analysis of optimum economic, 25:6024
cycle management for heavy water moderated and high temperature gas cooled power, analysis of optimum economic, 23:49563 (CONF-681219-2)
cycle management for high temperature gas cooled power, analysis of optimum economic, 23:37516
cycle management for homogeneous and heterogeneous high temperature gas cooled power, analysis of optimum economic, 23:37517
cycle management for liquid sodium cooled fast reactors, 25:54030 (A/CONF.49/P-481)
cycle management for optimization of total burnup in water moderated reactors, 24:26824
cycle management for optimum burnup performance of power, analysis of, 22:53291
cycle management for power, analysis of optimum economic, 23:49525
cycle management for power, analysis of optimum economic, 25:5897
cycle management for power, calculation of optimum, 24:28912
cycle management for power, calculation of optimum economic, 25:5898
cycle management for power, effective planning of overall operations for optimum economic, 25:53954 (A/CONF.49/P-764)
cycle management for power, method for optimum, 24:31085
cycle management for power, optimization of, 25:53937 (A/CONF.49/P-390)
cycle management for pressurized water reactor, analysis of optimum, (T), 23:45084
cycle management for thermal and fast breeder power, mathematical model analysis of, (T), 24:18769
cycle management for thorium, 25:1890
cycle management for U.K. AGR type, Magnox, and high temperature gas cooled, comparison of design parameters for optimum, 23:37518
cycle management for water cooled power reactor, multilevel data-based computer programs for, 25:54129 (A/CONF.49/P-293)
cycle management for, continuous scattered refueling procedures for optimum, (T), 24:33500
cycle management for, development in Japan of optimum long term, 24:52784
cycle management for, economic effects of in-core, (T), 24:16206
cycle management for, procedures and strategy for optimum economic, 25:28543
cycle management for, technical and economic factors of, 25:8082
cycle management in Australia, analysis of optimum economic, 25:34382 (CONF-701123-, Paper 8)
cycle management in pressurized water reactors, minimization of hot channel factors by, (T), 25:41452
cycle management in U. S., methods of in-reactor, 25:39267 (A/CONF.49/P-74)
cycle management of power, use of variational calculus for in-core, 25:51131
cycle management of power, utility and fuel supplier responsibilities for, 24:18529
cycle management of, comparison of methods for calculation of optimum, (T), 24:26826 (LA-4267)
cycle management of, computer code for study of, 21:30091(R) (ANL-7210)
cycle management of, ERUPT code for, 23:21480 (EUR-4203)
cycle management of, safeguards system for, 24:18692
cycle management procedures for power reactors, integration model analysis for optimum economic, 25:39172 (A/CONF.49/P-42)
cycle management procedures for power, analysis in Sweden of optimum, 25:53938 (A/CONF.49/P-425)
cycle management strategies for, optimization of, (T), 25:41454
cycle management, PWCOST computer program for economics of, 24:4165 (GA-9394)
cycle of fast, 2DBCOST computational system for optimization of, 25:44130
cycle of fast, effects of startups on thorium, 24:7135
cycle of pressurized-water single-purpose desalination reactors, analysis of optimum economic, 23:13557 (ORNL-TM-2046)
cycle optimization by linear and quadratic programming, (T), 22:30364
cycle parameters for fast breeder, effects of neutron flux spectra on, 24:7131
cycle parameters for liquid metal cooled fast breeder power, calculation of optimum economic, 23:49565 (LA-4187)
cycle parameters for on-load refueled thermal converters, (T), 25:3887 (DP-Report-575)
cycle performance for 1000 MW(e) heavy water-moderated, analysis of optimum economic, 22:30255
cycle performance for boiling and pressurized heavy water-moderated reactors, analysis of optimum, 22:30260
cycle performance for European fast breeder reactors, description of optimum, 22:35491
cycle performance for fast breeder, development of optimum, 22:35514
cycle performance for heavy water-cooled and -moderated reactors, analysis of optimum, 22:30252
cycle performance for heavy water-cooled and -moderated reactors, analysis of long-term optimum economic, 22:30254
cycle performance for heavy water-moderated reactors, analysis of optimum economic, 22:30158 (STI/PUB-163)
cycle performance in U. S. of heavy water-cooled and -moderated reactors, analysis of optimum economic, 22:30253
cycle performance of heavy water-moderated water-cooled 500 MW, analysis of optimum economic, 22:30261
cycle performance of thorium oxide (ThO$_2$) in heavy water-moderated organic-cooled 1000 MW(e), analysis of economic, (E/T), 22:30247
cycle program for industrial cooperation, CNEN, 24:18801
cycle requirements for western countries, 21:30186
cycle requirements in western Europe, effects of power reactor strategies on, (T), 25:28714
cycle schedules and economics for light water and gas cooled, 23:13381
cycle schedules for power reactors to 1995, analysis of optimum, 22:35535
cycle selection in developing countries, economic aspects of, 24:29021
cycle services for water cooled reactors, advantages and disadvantages of complete, 23:28489
cycle studies for Elk River reactor, (E), 21:1153(R) (ACNP-66557)
cycle, 1966 conference on thorium, 22:24934 (CONF-660524)
cycles for beryllium oxide—moderated, gas-cooled, economics of, 21:1192
cycles for CANDU and PHWR type reactors, 21:15644 (CONF-660221-, pp 283-6)
cycles for European fast breeder reactors, description of optimum, 22:35501
cycles for fast breeder systems, factors affecting optimization of, 25:34384(T) (JPRS-53069, pp 147-55)
cycles for fast breeders, model for optimization of, (T), 25:20752
cycles for fast reactors, economics of, 25:48276 (CEA-R-4190)
cycles for fast, economics of short, 24:11144
cycles for fast, optimization of fuel utilization in, (T), 25:48279
cycles for fast, REBUS system for calculation of equilibrium operating conditions of, 25:41445
cycles for fast, TRACE code for analysis of equilibrium, 25:57020 (EUR-4709)
cycles for gas cooled and water cooled reactors, economic effects of uranium-233 and plutonium recycle on, (T), 25:6056
cycles for gas cooled reactors, effects of uranium-233 recycle on, (T), 25:6057
cycles for graphite moderated systems, economics of uranium-235 and thorium, 24:46064 (DP-Report-336)
cycles for Grenoble reactors, economics of uranium-235 burnup in, 21:19471 (NP-16450)
cycles for heavy water moderated reactors in Romania, model for analysis of, 25:20750
cycles for heavy water moderated, analysis of optimum economic, 25:25988
cycles for high temperature gas cooled power reactors, economic estimates in U.S. for thorium, 25:48252 (CONF-680989-, pp 23-6)
cycles for high temperature gas cooled reactors, development of optimum, 24:18674(R) (NP-18148)
cycles for high temperature gas cooled reactors, development of thorium—uranium, 25:39269 (A/CONF.49/P-837)
cycles for high temperature gas cooled systems, economics of high conversion thorium, (T), 25:6051 (DP-Report-434)
cycles for high temperature gas cooled, economics of high enriched and low enriched uranium, 25:54131 (A/CONF.49/P-389)
cycles for high temperature gas cooled, economics of thorium, plutonium, and low-enrichment uranium, 24:50143 (CONF-700401-, pp 694-709)
cycles for high temperature gas cooled, effects of heavy isotope buildup on, (T), 25:41450
cycles for high temperature gas cooled, effects of plutonium use on economics of, (T), 25:41449
cycles for high temperature gas cooled, fuel element design effects on economics of, 24:50145 (CONF-700401-, pp 726-53)
cycles for high temperature helium cooled reactors, comparison of various thorium, (T), 25:3884 (DP-Report-469)
cycles for high temperature helium cooled reactors, parametric analysis of low-enriched uranium, 25:3883 (DP-Report-466)
cycles for high-temperature gas-cooled reactors, 21:17447 (GA-7482)
cycles for HTGR type reactors, optimization of thorium—uranium, 24:52945 (DP-Report-286)
cycles for HTGR-type thorium—uranium, development of, 25:31586
cycles for Japanese boiling power reactors, analysis of sources and economics for, 22:32849
cycles for low enrichment gas cooled, economic parameters of, 24:50141 (CONF-700401-, pp 649-70)
cycles for low enrichment gas cooled, fuel element design effects on economics of, 24:50142 (CONF-700401-, pp 671-93)
cycles for optimum utilization in Japanese power program, 21:17487
cycles for organic-cooled reactors, 21:23650
cycles for Peach Bottom Power Reactor Unit 1, comparison of four economic, 23:37515
cycles for power production, mathematical model for optimization of out-of-pile, 24:11131
cycles for power reactor, economics of optimized, 25:36859
cycles for power reactors in Switzerland, economic aspects of, 25:23304
cycles for power reactors, calculation of costs of, 25:20599
cycles for power reactors, comparison of plutonium and thorium, 25:48254 (CONF-680989-, pp 31-8)
cycles for power reactors, cost analysis code for, 25:23300
cycles for power reactors, economic factors and physics characteristics of thorium, 25:48253 (CONF-680989-, pp 27-30)
cycles for power reactors, effects of plutonium utilization on long term, 25:54138 (A/CONF.49/P-822)
cycles for power reactors, game theory calculations of plutonium cost in, 25:20753
cycles for power reactors, review of U.K. services in, 24:13552
cycles for power, calculations for optimum economic, 24:38547
cycles for power, economic optimization of, (T), 25:10233 (BNWL-SA-3605)
cycles for power, problems of materials safeguards in, 25:41446
cycles for power, REFCO and POW76 codes for calculation of costs of, 25:48277 (ORNL-4695)
cycles for predicted development in U.S. during 1970 to 2020, 25:10095 (WASH-1098)
cycles for pressurized heavy water power reactors, effects of plutonium recycle on optimum economic, 25:60092 (AECL-3910)
cycles for thermal breeder reactors, economics of thorium-uranium-233, (T), 25:20746 (JUL-644-RG)
cycles for thermal, operation aspects of plutonium recycle in, 25:41444 (CONF-700956-3)
cycles for water cooled and gas cooled power reactors, economic comparison of, 23:40372
cycles for water cooled reactors, computer codes for economic analysis of, 25:23302
cycles for water cooled reactors, utilization of plutonium in, 25:39266 (A/CONF.49/P-71)
cycles for water cooled, Italian program for analysis of thorium—uranium, 25:54127 (A/CONF.49/P-186)
cycles for water moderated power reactors, linear programming for optimization of, (T), 25:60104
cycles for, activities of French Pechiney Group in, 25:2379
cycles for, economics and scheduling of, 24:2072
cycles for, effects of reactor type on economics of, 24:16193
cycles for, review of international aspects of, 23:37524
cycles in 500 MW(e) CIRENE type reactors, economic comparison of various, 23:26049 (RT/FI-(68)39)
cycles in advanced gas cooled systems, factors affecting economics of approach to equilibrium in, 24:11130
cycles in helium cooled and sodium cooled fast breeders, economic comparison of, 24:24841
cycles in Japan power reactors, economic aspects of, 25:59928
cycles in Mexico for 540 to 660 MW(e) power reactor, comparison of reactor types for optimum economic, 25:28722
cycles in power reactors of uranium-233, description of optimum, 22:35497
cycles in steam cooled fast reactors, effects on physics and economics of, (T), 24:50148
cycles in water cooled and HTGR type, economics of plutonium and uranium-233 recycle in, 24:50144 (CONF-700401-, pp 710-25)
cycles in Western Europe, effects of power reactor strategies on, 25:6053
cycles of European fast reactor, description of optimum, 22:35496
cycles of plutonium, economics and problems of, 25:54285 (A/CONF.49/P-496)
cycling from light-water to heavy-water reactors, economics of, 21:12177
cycling of Japanese fast breeder power reactor, development of optimum domestic, 22:35485
cycling of power reactor, analysis of optimum, 22:37504
cycling of pressurized-water reactor, effects on optimum operation of, 23:6013
cycling of, analysis for optimum economic, 22:48796
cylindrical or annular ceramic pellets for, development of, 21:39680(P)
defect behavior of vibrationally compacted plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), effects of specific power and burnup on, 23:15738(R) (BNWL-963)
defect concentration in oxide-type, effects of free gas atoms on, 22:33096 (KFK-700(Pt. VI))
defect concentration in oxide-type, effects of free gas atoms on, 22:53273(T) (EURFNR-472)
deformation of aluminum-clad ceramic, mechanisms of nonuniform, 25:29924 (ORNL-4630, pp 233-8)
density control, powder heat treatment for, 21:43658(R) (NUMEC-3524-31)
density of compacted uranium dioxide, effects of sinusoidal vibration on, 23:3112
density of pressure sintered ceramic, 22:9988(R) (ANL-7391)
depletion of plutonium recycle, calculations for, 25:54103 (WCAP-4167-1, pp 3.1-30)
description of carbon—chromium—plutonium—uranium, 23:37818(P)
description of spherical uranium carbide (UC), for 1000 MW(e) OBFR, 22:9992 (BNL-50027)
design and development of, for SEFOR, 21:8039(R) (GEAP-5208)
design and economics of plutonia—urania, for fast reactors, 21:17459 (NAA-SR-11378(Vol.1))
design and economics of plutonium carbide—uranium carbide, for fast reactors, 21:17459 (NAA-SR-11378(Vol.1))
design and testing of SAP-clad, for HWOCR, 21:7946
design of coated particle, for homogeneous HTGR type reactors, 24:50112 (CONF-700401-, pp 518-46)
design of coated particle, in HTGR systems, (E), 24:50111 (CONF-700401-, pp 494-517)
design of coated-particle, for breeder reactors, 21:4394(P)
design of coated-particle, for high-temperature gas-cooled reactors, 21:38554
design of fast breeder, 22:17113 (JAERI-1144)
design of pellet-type, incorporating cavities to accommodate plastic flow under reactor conditions, 24:39639(P)
design of pyrolytic carbon-coated ceramic, 22:24957 (GA-7698)
design of, for UHTREX transient experiments, 21:8045(R) (LA-3625)

design parameters of breeding and fissile materials coated particle, 24:24921(P)
design variations of, effects on core burnup reactivity on, 22:14289 (BNWL-635)
determination of residual, in leached hulls, neutron activation equipment for, 24:11764 (CEA-CONF-1410)
development, 22:15175(R) (GEMP-1002)
development, 23:20534(R) (ORNL-4350)
development, 23:24784(R) (ORNL-4390)
development, 23:24846(R) (GEMP-1008)
development, 21:19420
development and economics of plutonium, 21:19347 (BNWL-SA-926)
development and economics of, in Germany, 21:15657 (KFK-466)
development and processing of, review of 1966, 21:5608 (CONF-661108-1)
development and testing carbon-coated, 22:8822 (ORNL-4170, pp 163-72)
development and testing for AARR, 21:7856(R) (ANL-7255)
development and testing for space power, 25:49577 (ORNL-TM-3416, pp 174-83)
development and testing of, 24:23504(R) (BNWL-1279)
development and testing of, 25:628(R) (BNWL-1349-2)
development and testing of, 21:17555(R) (ORNL-3911)
development and testing of EVESR steam-cooled, Sept. to Nov. 1966, 21:19358(R) (GEAP-5404)
development and testing of liquid cerium—cobalt—plutonium alloys for, 23:8254
development and testing of plutonia-urania for fast, 21:31944(R) (NUMEC-3524-27)
development and testing of thoria-base, 21:13227 (ORNL-3970, pp 209-22)
development and use of enriched and natural uranium, 21:19432
development at Argonne National Laboratory, April and May 1970, 24:38470(R) (ANL-7688)
development at Argonne National Laboratory, August 1970, 24:52850(R) (ANL-7737)
development at Argonne National Laboratory, December 1969, 24:18581(R) (ANL-7655)
development at Argonne National Laboratory, February 1970, 24:24781(R) (ANL-7669)
development at Argonne National Laboratory, February 1971, 25:25957(R) (ANL-7783)
development at Argonne National Laboratory, January 1971, 25:23231(R) (ANL-7776)
development at Argonne National Laboratory, January 1970, 24:18582(R) (ANL-7661)
development at Argonne National Laboratory, July 1970, 24:45993(R) (ANL-7726)
development at Argonne National Laboratory, June 1970, 24:43686(R) (ANL-7705)
development at Argonne National Laboratory, March 1970, 24:28983(R) (ANL-7679)
development at Argonne National Laboratory, November 1970, 25:10164(R) (ANL-7758)
development at Argonne National Laboratory, October 1970, 25:8047(R) (ANL-7753)
development at Argonne National Laboratory, September 1970, 25:1848(R) (ANL-7742)
development by USAEC, JCAE hearings on, 22:10169
development by USAEC, JCAE hearings on, 22:10168
development for BNL pulsed reactor, 24:44184 (BNL-50205, pp 134-67)
development for fast reactors, 23:37444(R) (ANL-7577)
development for fast reactors, status of, 21:7938
development for Fort St. Vrain Power Reactor, 21:27670(R) (GA-7086)
development for HFIR, 23:8339 (ORNL-4370, pp 179-92)
development for high temperature gas-cooled reactors, 21:19381(R) (ORNL-4036)
development for high-flux, high-power-density, 22:15135 (IN-1133)
development for high-temperature gas-cooled reactors, 21:17479
development for high-temperature reactors, 22:16168
development for HTGCR, 21:7947
development for power reactors, technical aspects of, 25:35550
development for pulsed reactors. 22:37900 (BNL-50082, pp 153-80)
development for THTR, design of hot laboratory for, 21:6174
development for use with in-pile chemonuclear loops, 25:57610 (BNL-50293)
development for use with sodium and steam at 800 to 1300°F, 21:7939
development in Belgium during 1968, 24:9079(R) (NP-18052)
development in Canada, 21:5595 (AECL-2486)
development in Canada of, review of, 23:23846
development in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
development in France of fast breeder, 24:33321
development in Japan, 22:18659
development in Japan during April 1969 to March 1970, description of, 24:1974
development in Japan of fast breeder reactor mixed oxide, present state of, 23:11244
development in Japan of plutonium, analysis of problems for long and short term, 23:33123
development of, 23:48315(R) (ORNL-4420)
development of, 24:1060(R) (BMI-1868)
development of, 24:4710(R) (ORNL-4440)
development of, 24:17192(R) (ORNL-4480)
development of, 24:34840(R) (BNWL-1349-1)
development of, 24:36858(R) (ORNL-4520)
development of, 25:6887(R) (BMI-1886)
development of, 24:22665(R) (AECL-3521)
development of, 21:41292(R) (NP-16972)
development of 1000 MW(e) single-fluid MSBR, testing program for, 23:21451(R) (ORNL-4344)
development of Argonne National Laboratory, December 1970, 25:15339 (ANL-7765)
development of beryllium oxide—actinide oxide, for thermal reactors, 23:8352
development of bonded beds of coated particle, 24:41396(R) (ORNL-TM-3112)
development of bonded beds of coated particles of, 24:31445(R) (ORNL-TM-3004)
development of breeder-type, chemistry of, 21:34173
development of carbide, 23:12396(R) (WARD-3791-27)
development of carbide, for fast breeders, 24:38542(T) (EURFNR-722)
development of carbide, for high-temperature gas cooled reactors, 23:8292
development of carbon coated particle type, for high temperature gas cooled reactors, 25:23290
development of ceramic, 22:41082 (CEND-2936-335)
development of ceramic oxide, review on, 24:10151
development of ceramic, for fast reactors, 22:647(R) (BNL-50077)
development of ceramic-type, 21:31903(R) (BNWL-CC-500)
development of chromium-containing carbide, for improved compatibility with cladding, 22:23840(P)
development of coated ceramic particles, 24:28984(R) (GA-8420)
development of coated particle gas cooled, 25:6007
development of coated particle, for Fort St. Vrain, 24:24782(R) (GA-9875)
development of coated particle, for gas cooled reactors, 25:10166 (GA-10265)
development of coated particle, for helium cooled fast breeders, 24:50118 (CONF-700401-, pp 833-53)
development of coated particle, for HTGR reactors, 23:40317(R) (GA-8662)
development of coated particle, for HTGR type reactors, (E), 23:43083(R) (GA-9227)
development of coated particle, for HTGR type reactors, 24:50113 (CONF-700401-, pp 547-85)
development of coated particle, for HTGR-type reactors, 25:39228 (NP-18809, pp 2.1-14)
development of coated particle, program in Germany for, 24:50114 (CONF-700401-, pp 586-97)
development of coated—particle, 22:734
development of coated-particle, 21:40707
development of coated-particle, 21:18308(R) (BMI-1784)
development of coated-particle, for Dragon Reactor, 21:15793
development of coated-particle, for high-temperature gas-cooled reactors, 21:17447 (GA-7482)
development of enriched ceramic, for Shippingport, 21:27695(R) (WAPD-MRP-120)
development of enriched uranium oxide (UO$_2$) ceramic, for use in pressurized water reactors, 22:14147(R) (WAPD-MRP-122)
development of fast, 21:13946(R) (ANL-7279)
development of fast, 21:13947(R) (ANL-7286)
development of fast breeder, 25:25959 (KFK-1270/3)
development of fast breeder, conference on, 24:17226 (KFK-1111)
development of fast breeder, fabrication and irradiation testing programs for, 25:28632(T) (EURFNR-824)
development of fast breeder, fabrication and irradiation testing programs for, 25:60010(T) (EURFNR-902)
development of fast mixed oxide, for sodium-cooled reactors, 21:38457(R) (GEAP-5491)
development of fast nitride and oxide, 21:31903(R) (BNWL-CC-500)
development of fast reactor oxide, 24:17393 (ORNL-4480, pp 3-35)
development of fast reactor, description of optimum economic, 22:46952
development of fast, Belgian programs for, 25:54083 (A/CONF.49/P-275)
development of fast, conference on, 25:48353
development of fast, during October through December 1970, 25:28686(R) (BMI-1898)
development of fast, program in Belgium for, 25:39227 (NP-18809, pp 1.1-33)
development of fast, summaries of national programs for, 24:50076 (NP-18365)
development of fast-breeder, description of FFTF for, 22:27475
development of Fort St. Vrain Power Reactor coated particle, 21:38451(R) (GA-7314)
development of French fast, summary of, 22:14149(T) (ORNL-tr-1764)
development of FTR mixed oxide, during July to August 1969, 24:7166(R) (BNWL-1174)
development of FTR mixed oxide, during March to May 1969, 23:49584(R) (BNWL-1090)
development of FTR mixed oxide, during Sept. to Nov. 1969, 24:16235(R) (BNWL-1275)
development of FTR mixed-oxide, July—Sept. 1968, 23:17245(R) (BNWL-917)
development of gas cooled, program in Belgium for, 25:54084 (A/CONF.49/P-288)
development of gas-cooled fast breeder, 21:19354(R) (GA-6667)
development of graphite-base, 22:11089(R) (GA-7100)
development of high temperature gas cooled power, review of, 24:18682
development of high-performance, 24:1068 (ORNL-4422, pp 203-29)
development of high-performance LMFBR, 24:17343 (ORNL-4480, pp 36-57)
development of high-temperature gas-cooled thermal, 21:44874
development of high-temperature, review on, 24:10190(R) (BMI-1875)
development of HTGR, 24:41395(R) (ORNL-TM-3088)
development of HTGR, 24:41396(R) (ORNL-TM-3112)
development of HTGR, 24:9436(R) (ORNL-TM-2792)
development of light bulb rocket, testing program and procedures for, 25:26023 (GEMP-654)
development of light bulb rocket, testing program and procedures for, 25:26026 (GEMP-691)
development of light bulb rocket, testing program and procedures for, 25:26027 (GEMP-693)
development of LMFBR mixed carbide, nitride, and oxide, 24:7129
development of LMFBR, description of program for, 23:2035 (WASH-1107)
development of mixed oxide and carbide, for LMFBR-type reactors, 23:4237
development of mixed oxide fast, 25:41365(R) (ANL-7825)
development of mixed oxide fast, 25:48234(R) (ANL-7833)
development of mixed oxide fast, 25:51026(R) (ANL-7845)
development of mixed oxide fast, during March 1971, 25:31533(R) (ANL-7798)
development of neutron resonance absorber, for superheating fast or epithermal reactors, 23:21494(P)
development of optimum coated-particle for Fort St. Vrain Power Reactor Unit 1, 23:4167(R) (GA-7939)
development of optimum coated-particle, for Fort St. Vrain Power Reactor Unit 1, 23:4170(R) (GA-8270)
development of optimum coated-particle, for Fort St. Vrain Power Reactor Unit 1, 23:4169(R) (GA-8038)
development of oxide and carbide fast, during April to June 1970, 25:41364(T) (EURFNR-849)
development of oxide or carbide, with hafnium as burnable poison, 21:8005(P)
development of pellet-type, process variables in, 24:23506(R) (WARD-4135-4)
development of Phoenix, 21:31903(R) (BNWL-CC-500)
development of plutonia—urania for advanced power reactors, 21:23659
development of plutonium, 21:40695(R) (EURAEC-1886)
development of plutonium, 21:42729(R) (LA-3745)
development of plutonium carbide—uranium carbide for breeder reactors, 21:23659
development of plutonium for, 21:46895
development of plutonium for fast breeders, 22:7804 (EURFNR-422)
development of plutonium Phoenix-type, (E/T), 22:27459 (BNWL-634, pp 3.1-27)
development of plutonium phosphides and sulfides for fast-reactor, 21:23659
development of plutonium, for thermal reactors, 21:7984
development of plutonium- and uranium-base ceramic LMFBR, 23:48503 (ORNL-4420, pp 40-70)
development of plutonium-, thorium-, and uranium-base, review of, 23:20464
development of plutonium—uranium alloys for fast reactors, 21:23659
development of plutonium-base, 21:30290
development of plutonium-base, for fast reactors, 23:8141
development of plutonium-based fast power-breeder, 21:32875
development of plutonium-enriched ceramic, review of, 25:18245 (WHAN-SA-70)
development of pyrocarbon coated particle uranium carbide (UC) and thorium carbide (ThC)—uranium carbide (UC), 24:46054
development of SEFOR, 21:30142(R) (GEAP-5442)
development of sintered, with improved thermal characteristics, 25:46344(P)
development of thoria-urania, for sodium-cooled fast reactors, 21:34108(R) (GEAP-5198)
development of thoria-urania, for sodium-cooled fast reactors, 21:34109(R) (GEAP-5292)
development of urania—plutonium, sol-gel process, 21:30437(R) (BAW-3714-3)
development of Windscale Advanced Gas-Cooled Reactor, description of, 23:5983
development of, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
development of, coal industry briefing on, 21:17438 (CONF-660930)
development of, conference on, 25:48237
development of, description of Japanese facilities for, 25:15823
development of, experimental programs in Windscale AGR for, 21:42745
development of, for Dragon Reactor, 21:14913
development of, program for research, 25:29757(R) (ORNL-4630)
development of, progress on, 24:12450(R) (BNWL-1223)
development of, research program for, 25:8829(R) (ORNL-4600)
development of, research progress on, 25:49344(R) (ORNL-TM-3416)
development of, research progress on, 25:49343(R) (ORNL-TM-3300)
development of, review, 22:12954
development of, review of, 21:2902
development of, summary of research on, 21:2896 (TID-6506(Pt.3)(4th Ed.))
development program for, 22:12962(R) (BNWL-473)
development program for Canada, description of, 22:42152 (AECL-3067, pp 45-52)
development program for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)—zirconium oxide (ZrO$_2$) thermal reactor, during July to September 1967, 23:2031(R) (NUMEC-3505-33)
development program for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fast reactor, during April to June 1968, 23:2032(R) (NUMEC-3524-55)
development program for plutonium utilization in water cooled, review of, 25:46263 (BNWL-SA-3865)
development program for U. S. A. liquid metal-cooled fast breeder reactor, description of, 22:46951
development program for Western Europe, discussion of, 22:48697
development programs for, 23:38917(R) (BNWL-1058)

development programs supported by AEC Division of Reactor Development and Technology, summaries, 21:1225 (TID-6506(Pt.1)(4th Ed.))
development trends in ceramic oxide, review on, 24:10167
developments of, review of, 21:15796
diffusion coefficients for pressure sintered ceramic, 22:9988(R) (ANL-7391)
diffusion in ceramic, during reactor operation, 24:50439(R) (ANL-7675)
diffusion in metallic, review on, 23:41537
diffusion in metallic, review on, 23:45991
diffusion in nitride, methods for determining self-, 25:6888 (BMI-1886, Sect. A)
diffusion in oxide-type, mechanisms of thermal, 23:34098
diffusion in, review of factors affecting, 24:46721
diffusion of barium from irradiated coated-particle, measurement of, 24:42229 (DP-Report-295)
diffusion of cesium in, effects of stoichiometry on, 25:40040
diffusion of cesium-137 and iodine-131 from microspheres of, 23:9306 (ORNL-4343, pp 62-84)
diffusion of fission gases from ceramic, mechanisms of, 25:8958 (SRARI-P-73)
diffusion of fission gases from irradiated, design of equipment for measuring, 25:40128 (BARC-538)
diffusion of fission gases from, design of test furnace for studies of, 25:37527
diffusion of fission product bubbles in, mechanisms of, 25:6889 (BMI-1886, Sect. B)
diffusion of fission products from coated particles of, effects of annealing on, 24:14967 (ORNL-4400, pp 103-17)
diffusion of fission products from coated-particle, effects of post-irradiation annealing on, 22:26093 (ORNL-4229, pp 125-41)
diffusion of fission products from, effects of temperature and burnup on, 24:10209
diffusion of fission products in coating of particles of, 25:40106 (SGAE-CH-69/1970)
diffusion of iodine from broken coated-particle, 22:26093 (ORNL-4229, pp 125-41)
diffusion of iodine from coated particles of, 24:14967 (ORNL-4400, pp 103-17)
diffusion of xenon from irradiated coated-particle, measurement of, 24:42229 (DP-Report-295)
diffusion processes in coated particle, amoeba effect in, 24:37002 (ORNL-4586, pp 87-97)
diluent particles in, chemistry studies of, 21:44830(R) (GA-7396)
dimensional stability of cermet, under thermal cycling, 22:21684 (BMI-1824)
dispersal in liquid coolant, transient heat transfer from, 21:13946(R) (ANL-7279)
dispersal in sodium and water coolants, heat transfer and pressure generation by high temperature, (E/T), 22:27397 (ANL-7375, pp 135-59)
dispersion and breakage of coated-particle, in graphite matrix by hot pressing, 21:20556
dissolution and boiling of breeder, formation of hexavalent plutonium during, catalytic effects of iron on, 22:27845 (CEA-N-816, pp 150-276)
dissolution and extraction of plutonium from irradiated, AT1 process for, 22:25452 (CEA-N-616, pp 154-214)
dissolution in nitric acid, 23:19826 (JEN-201-DMa/I-22)
dissolution in nitric acid, electrolytic, 24:22737
dissolution of aluminum-containing, 21:25966(P)
dissolution of ceramic, remote-handling apparatus for, 24:25099 (JUL-627-RB)
dissolution of clad ceramic, by liquid ammonia and mineral acids, 22:19670 (BNWL-624, pp 6.1-20)
dissolution of core material from sheared, evaluation of methods for, 25:26327 (ORNL-TM-3194)
dissolution of EBR-II, electrolytic, 24:9429(R) (IN-1314)
dissolution of graphite-base, pressurized aqueous process for, 21:4602
dissolution of irradiated, equations for continuous, 21:36079 (CEA-R-3246)
dissolution of irradiated, in alkaline salt melt with nitric acid leaching, 23:4729(P)
dissolution of irradiated, in chemical processing plant, accountability data for, 24:20845 (BNWL-CC-2346(Rev.))
dissolution of irradiated, stainless steel-clad, 25:29199(P)
dissolution of LMFBR, in nitric acid, effects of fabrication variables and irradiation history on, 25:13083 (WHAN-FR-33)
dissolution of metallic, electrolytic methods for, 25:34690(R) (IN-1457)
dissolution of natural uranium-base, by nitric acid, equipment for, 24:11653 (CEA-N-1148, pp 183-271)
dissolution of natural uranium-base, by nitric acid, equipment for, 24:22723(T) (ANL-Trans-799)
dissolution of Sicral, method for, 24:36339 (CEA-N-1241, pp 179-254)
dissolution of stainless steel-clad and Zircaloy-clad, electrolytic, 24:22737
dissolution of ternary, 23:6 (IN-1203, pp 37-51)
dissolution of uranium dioxide—calcium stabilized zirconium dioxide, potassium pyrosulfate fusion method for, 23:4521 (IN-1223)
dissolution of, recovery of krypton and xenon from off-gas from, 24:5722
distillation of carrier salt for, 22:47204 (ORNL-4254, pp 241-78)
distillation of carrier salt for MSRE, 24:266 (ORNL-4422, pp 1-47)
distillation of MSRE, 25:2313 (ORNL-4572, pp 1-36)
distillation of MSRE, 23:45369 (ORNL-4396, pp 269-301)
distillation of MSRE, 23:19829 (ORNL-4344, pp 291-327)
distillation of MSRE, 24:16625 (ORNL-4449, pp 214-47)
distillation of MSRE, analysis of samples from, 24:46308 (ORNL-4548, pp 277-333)
Doppler coefficient in high- and intermediate-energy regions for, effect of multilevel multichannel interference on, 23:19556
Doppler coefficient measurements in natural uranium and depleted uranium oxide (UO_2), pile oscillator method for, (E/T), 25:37135 (KFK-1350)
dose rates from particles of, following accidental destruction of nuclear rocket, 21:8452(R) (ORNL-TM-1686)
dynamics of high-temperature pebble-bed reactor, effects of coolant flow on, 22:6047
economic analysis for heavy water-moderated reactors, 21:8120 (CONF-660220-3)
economic aspects of thorium and uranium, for graphite and heavy water-moderated reactors, 23:40915 (EUR-4264)
economic effects on plant operation of power, 23:28386
economic forecast to year 2000 of U. S, 23:15644
economic parameter variations of 1000 MW(e) LMFBR-type reactor, effects on optimum cylindrical core of, 23:4255
economic value of, projection into future of, 21:38586
economics and requirements for, to year 2000 in West Germany, 24:9991
economics and requirements to year 2000, 23:15648
economics and resonances of, review of, 21:27736
economics and resources of, for developing nations, 21:38598
economics and supply of, 21:46968
economics for electric power generation in Canada, forecast of future, 23:52502
economics for fast breeder power reactor, analysis from 1972 to 2000, 22:37448 (NP-17521)
economics for fluid-fueled fast breeder reactor sodium—uranium nitride (UN) paste-type blanket, analysis of optimum, 23:13501 (ANL-7475)
economics for heavy water moderated power reactors, estimates of, 25:3802
economics for molten salt reactors, 21:19414
economics for use in nuclear power plants, 22:16209
economics in developing countries, cost factors affecting, 24:29021
economics in high-depletion cores, 21:25645
economics in large power station systems, procedure for calculating inventories and consumption rates factors in, 24:11201 (BMwF-FBK-69-27)
economics in maritime applications, 22:14230 (NUS-265-A)
economics in Netherlands for, analysis during 1960 to 1980 of supply-and-demand, 23:21428
economics in nuclear power production of, 22:12049
economics in power reactors, analysis of control system for optimum, (T), 22:42238
economics in PWR, BWR, heavy water—moderated, and graphite gas—cooled reactors, 21:30110 (CNEA-183)
economics in U.S. light water power reactors, estimates of future, 23:13518
economics in water-cooled water-moderated reactors, 21:25639 (WCAP-3269-53)
economics of, 21:14308
economics of, 21:27708
economics of, 22:16210
economics of 1000 MW(e) LMFBR, effects of sodium void coefficient on, 22:9990(R) (BAW-1312)
economics of bred, in power reactors, 22:3851
economics of German power reactor, 22:37502
economics of low-enrichment, in heavy water reactor, 21:12177
economics of maritime, 21:34147 (NUS-339)
economics of natural uranium, estimates of free world requirements to 1985 for, 22:27420(T) (ORNL-tr-1825)
economics of nitride, for fast breeders, (T), 22:22659 (BNWL-606)
economics of plutonium, 21:14107 (EUR-2967.f)
economics of plutonium and uranium for, 21:44863(T) (JPRS-42155)
economics of plutonium in commercial water reactors, 21:5622 (NUS-259)
economics of plutonium recycling in heavy water moderated thorium converters, 24:43769
economics of plutonium, determination of long-term value in, 21:14107 (EUR-2967.f)
economics of plutonium, for beryllium-oxide-moderated pebble-bed reactors, 21:1195
economics of plutonium, for commercial water reactors, 21:5622 (NUS-259)
economics of plutonium, for heavy water-moderated reactors, 21:8120 (CONF-660220-3)
economics of plutonium, in fast breeder reactor systems, 21:30152 (KFK-569)
economics of power, effects of processing and utilization on, 23:13512
economics of purchase outright or piecemeal acquisition of, 21:38588
economics of thorium, for beryllium oxide—moderated pebble bed, 21:1195
economics of thorium, for heavy water reactors, 22:37506
economics of U.S., review of future, 25:18149
economics of uranium-233 production in fast breeders, for use in thermal converters, 23:2038
economics of, bibliography on, 23:9180 (PEL-167)
economics of, compared with conventional fuels, 22:48957
economics of, cost—benefit analysis of, 25:59921
economics of, effects of availability and demand on, 21:38586
economics of, effects of high-gain breeder reactors on, 21:25644
economics of, effects of power reactor types and applications on, 25:5878(T) (UCRL-Trans-10495)
economics of, effects of reactor types on cycle, 22:3832 (KFK-566)
economics of, effects of reprocessing on, 22:25158
economics of, effects of thermal and fast breeder power reactors predicted production of plutonium on, 23:23921
economics of, effects on long range reactor development, 24:7072
economics of, engineering evaluation of, 22:6166
economics of, estimates of future, 21:14020
economics of, for power reactors in France, 21:17497
economics of, in research reactors, 21:2881
economics of, management methods for optimum, 22:53284
economics of, methods for evaluation of, 24:422
economics of, parametric analyses for, 22:33097 (KFK-700(Pt. XIII))
economics of, parametric analyses for, 22:53273(T) (EURFNR-472)
economics of, systematic seven-page guide for calculating, 25:10216
economics of, use of BATCOST code for calculating, 21:42835 (TRG-Report-1489)
effects of high-temperature operation on high-temperature gas-cooled coated, 21:25630(R) (ORNL-4071)
effects of uranium-233 on MSRE inherent neutron source in, 23:49567 (ORNL-TM-2685)
effects of uranium-233, on dynamics of Molten Salt Reactor Experiment, 23:34901 (ORNL-TM-2571)
effects on performance of 50 to 1000 kW(e) thermionic converters, 24:11289 (GA-9486)
effects on physics characteristics of 1000 MW(e) heavy water-moderated organic-cooled power reactors, analysis of, 22:50741 (WASH-1083)
efficiency criterion of, 21:12190
efficiency of power, comparison for fast and thermal reactors of, 23:52370(T) (JPRS-48330, pp 18-38)
elastic properties of coated spherical particulate, effects of particle structure on, (E), 24:21421 (JUL-605-RW)
electric conductivity of MSBR, 24:46307 (ORNL-4548, pp 93-186)
energy output of, warranties on, 24:17369
energy release capability of, (T), 25:1972
energy release capability of, calculations of, (T), 25:1896
enrichment for stainless clad LOFT core, optimization of, 21:27680 (IDO-17235)
enrichment of uranium, international aspects of, 23:37524
enrichment of uranium, neutron radiographic method for determination of, 23:43474 (CONF-680506-, pp 141-8)
enrichment of uranium, USAEC legal aspects for contracts for, 23:19583 (ORO-665, pp 185-217)
enthalpy and thermal capacity of plutonium bearing alloy, 22:19538
equilibria in mixtures with fission products at 2000 to 3000°K, 22:31490
etching of oxide-type, methods for chemical, 24:48874(R) (NP-18353)
evaluation for fast test reactors, 21:27827 (BNWL-SA-1042-S(Rev.B))
evaluation for pebble-bed reactors, 21:25612 (AAEC/TM-350)
evaluation of carbon-coated urania and uranium carbide particulate, preirradiation, 21:18266 (ORNL-TM-1713)
evaluation of coated particle carbide, methods for, 24:42228 (DP-Report-138)
evaluation of metallic and oxide, for 10,000-MW(t) dual purpose plant, 21:25710 (RL-GEN-925)
evaluation of oxygen—sulfur—uranium solid solutions for, 21:31898(R) (ANL-7329)
evaluation of plutonium as, 21:36844
evaluation of plutonium-238, plutonia, and plutonium—zirconium alloys for, 21:35777 (MLM-1387(Suppl.)(Del.1))
evaluation of, design of cathodic etcher for, 24:359
expansion in reactivity accidents, analysis of, 21:7936
expansion of coated particle beds, effects of steam hydrolysis on, 24:24782(R) (GA-9875)
expansion of porous-oxide, computer program for analysis of, 21:8131
fabrication and microstructure of plutonium dioxide—uranium dioxide, 21:32951(R) (BMI-1798)
fabrication and performance of plutonium—uranium oxide, 22:2707 (BNWL-SA-1346)
fabrication and preparation of coated-particle carbide, development of method for, 25:2771 (ORNL-4570, pp 161-9)
fabrication and processing in US, economics of, 22:23175
fabrication and processing, review, 22:4309 (TID-24102)
fabrication and properties of hot-isostatic-pressed cermet, 22:36524 (BMI-1842)
fabrication and properties of sub-stoichiometric plutonia—urania, 21:40698(T) (EURFNR-286)
fabrication and reprocessing of fast, 21:34145
fabrication and reprocessing of, conference on, 25:631 (INR-1194)
fabrication and use of plutonium, 22:8715
fabrication by extrusion at 2200 to 2400°C of monocarbide, 23:36212(P)
fabrication by extrusion at 2200 to 2400°C of uranium carbide, 23:36211(P)
fabrication capabilities in South Africa, 22:39837
fabrication capacities for power reactor, computer program projected to 1990, 2000, and 2010, 23:4258
fabrication capacity for, schedules for optimization of expansion in, (T), 24:16107
fabrication costs for fast breeder reactor, comparison of NUPAC and VIPAC, 23:4246
fabrication costs of, library of computer programs for, 22:8806 (ORNL-4170, pp 206-10)
fabrication costs of, major variables in, 21:34168 (BNWL-SA-923)
fabrication economics, 23:7664 (ORNL-4370, pp 212-18)
fabrication facilities for, development in Europe of, 23:23868

fabrication facilities for, effects of high-exposure plutonium radiation levels on design of, 24:29920 (CONF-700502-, pp 59-73)
fabrication for irradiation testing in HFIR and ATR, flow sheet for quality control in, 25:49507 (ORNL-TM-3300, pp 269-75)
fabrication from carbide and oxide particles, method and apparatus for, 21:1232(P)
fabrication from recycled uranium-233, economics, 24:30017 (CONF-700502-, pp 281-309)
fabrication in Euratom countries, catalog of facilities for, 22:4303 (EUR-3568)
fabrication in Great Britain, review of methods for, 24:17350
fabrication in Turkey, economic aspects of, 24:28863
fabrication in United Kingdom, review of, 22:30361
fabrication methods for coated particle type, (E), 24:45997(R) (GA-10202)
fabrication methods for coated particle type, (E), 25:18099(R) (GA-10313)
fabrication methods for, descriptions of, 22:30385
fabrication methods for, tabular summary of, 22:33093 (KFK-700(Pt. II))
fabrication methods for, tabular summary of, 22:53273(T) (EURFNR-472)
fabrication of 1000 MW(e) LMFBR-type reactor, computer analysis of cost for, 23:4254
fabrication of advanced ceramic, flowsheets for, 25:737
fabrication of aluminum—uranium, effects of silicon on, 23:9508 (IN-1194)
fabrication of angular-particle, pellet, and sphere plutonium dioxide—uranium dioxide, equipment and method for, 24:6178 (BAW-3714-11)
fabrication of bulk oxide, 23:43385(R) (ORNL-4429)
fabrication of carbide, furnace for, 21:26881(P)
fabrication of carbide, nitride, and oxide, methods for, 21:34177(P)
fabrication of carbon-coated particulate uranium carbide, for Los Alamos Turret Reactor, 23:8293
fabrication of ceramic, 24:43751 (BNWL-1435)
fabrication of ceramic, by vibration compaction, 25:35524 (RT/ING-(70)22)
fabrication of cermets for, 21:21820(P)
fabrication of coated kernel-type, development of method for, 24:30032
fabrication of coated particle thorium carbide (ThC_2)—uranium carbide (UC_2), 24:40980 (DP-Report-116)
fabrication of coated particle, development of methods for, 24:50116 (CONF-700401-, pp 610-18)
fabrication of coated particles, method for, 21:46916(P)
fabrication of coated particulate, 21:8175(P)
fabrication of coated particulate, method for, 24:17349(P)
fabrication of coated uranium carbide (UC)—zirconium carbide (ZrC) and thorium carbide (ThC_2)—uranium carbide (UC_2) particle, 24:40999 (DP-Report-328)
fabrication of dense ceramic, by deposition of fissile material in outer layers, 23:1024(P)
fabrication of dense uranium dioxide, rod-type, improved process for, 23:18267(P)
fabrication of dispersion-type silicon carbide—uranium carbide, 23:41724
fabrication of EL-4, preparation of sinterable uranium dioxide for, 23:18257(T) (LIB/Trans-189)
fabrication of enriched plutonium, in Belgium, industrial, 23:41575
fabrication of European fast reactor, economics of, 22:35499
fabrication of fast-breeder, 21:30136 (EURFNR-287)
fabrication of FBR plutonium carbide (PuC)—uranium carbide (UC), analysis of optimum casting and melting parameters for, 23:13537 (AI-AEC-12721, pp 275-77)
fabrication of fine-grained uranium alloy for, 21:39592(P)
fabrication of fluidized-bed, description of conical-shaped gas distributor for gas-coating, 22:44933(P)
fabrication of Fort St. Vrain Power Reactor Unit 1 silicon carbide (SiC)-coated particle, description of, 23:4218 (GA-8467)
fabrication of graphite matrix pyrolytic carbon coated particle type, 25:34440(P)
fabrication of graphite shell particle type, for high temperature gas cooled reactors, 25:37023(P)
fabrication of graphite—oxide, 24:9437(R) (ORNL-TM-2846)
fabrication of graphite-base, development of remote methods for, 25:2791 (ORNL-4570, pp 195-200)
fabrication of graphite-matrix, 23:43385(R) (ORNL-4429)
fabrication of high-density pellet-type, using sintered uranium dioxide, 23:30136
fabrication of HTGR, 24:31446(R) (ORNL-TM-3032)
fabrication of HTGR fueled graphite, 24:33760(R) (ORNL-TM-3015)
fabrication of hyperstoichiometric and stoichiometric, 23:12396(R) (WARD-3791-27)
fabrication of light water power, costs of, 22:44841 (WASH-1082)
fabrication of liquid metal cooled fast breeder reactor, development of equipment and procedures for, 25:46276(R) (ORNL-TM-3456)
fabrication of metallic and ceramic, review of, 23:9262
fabrication of mixed oxide, powder production and packing techniques for, 24:31074
fabrication of mixed-carbide, melting and casting procedures for, 23:1991(R) (AI-AEC-12680)
fabrication of oxide pellet-type, with center holes, pressing and sintering method for, 25:58362
fabrication of oxide, analysis of scrap from, 25:38(R) (BHO-69-1)
fabrication of oxide-loaded graphite, 25:2320(R) (ORNL-TM-3204)
fabrication of particle type ceramic, with beryllium oxide (BeO_2) matrix, 24:47991(P)
fabrication of particulate, 21:20484
fabrication of pelleted plutonium carbide—uranium carbide, 23:12396(R) (WARD-3791-27)
fabrication of pelletized plutonium—uranium carbide, 23:36206
fabrication of phenolic resin-bonded carbon-coated particle-type, methods for, 23:9117(R) (GA-7453)
fabrication of plutonia—urania, vibrational compaction, 21:44960 (BNWL-CC-319)
fabrication of plutonium and uranium sesquicarbide, for use in gas-cooled reactors, 21:6869(P)
fabrication of plutonium carbonitride—uranium carbonitride by arc melting and casting, 21:32951(R) (BMI-1798)
fabrication of plutonium ceramic, 22:8810
fabrication of plutonium dioxide—uranium dioxide, review of processes for, 23:10251
fabrication of plutonium nitride—uranium nitride, for use in LMFBR, sintering methods for, 21:32951(R) (BMI-1798)
fabrication of plutonium, radiation equipment and monitoring methods at Japanese laboratory for, 23:48060
fabrication of plutonium- and uranium-233-containing, effects of radiation dose and shielding requirements on design of facilities for, 24:30003 (CONF-700502-, pp 74-84)
fabrication of plutonium-alloy, for fast reactors, 21:32938
fabrication of plutonium-containing thermal, development of techniques for, 25:39228 (NP-18809, pp 2.1-14)
fabrication of porous ceramic, powder metallurgy method for, 25:738(P)
fabrication of pressed-powder pellets of plutonium nitride—uranium nitride, 23:3116
fabrication of pyrolytic carbon coated particle type uranium carbide (UC_2), 24:40992 (DP-Report-214(Pt.1))
fabrication of pyrolytic carbon coated uranium carbide (UC_2) particle type, 24:47865(P)
fabrication of recycled plutonium, radiation protection problems of personnel in, 23:14173
fabrication of resin-bonded carbon-coated particle-type, methods for, 23:9118(R) (GA-7634)
fabrication of shaped ceramic dioxide, 22:11036(P)
fabrication of silicon carbide-coated spherical uranium carbide (UC) particle-type, 23:13586
fabrication of sintered plutonium oxide (PuO_2)—uranium oxide (UO_2) pellets, 24:29041 (BNWL-1214)
fabrication of sintered uranium dioxide, economic and technical improvements in, 23:18194(T) (LIB/Trans-187)
fabrication of spherical particles for, method for, 22:47055
fabrication of spherical, process and equipment design for, 21:9220(P)
fabrication of stainless steel—plutonium dioxide cermets, 21:8149
fabrication of substoichiometric plutonia—urania pellets and powders for, 21:40698(T) (EURFNR-286)
fabrication of thermosetting-resin-coated particle-type, 23:9254(P)
fabrication of thoria—urania, in beryllium oxide matrix, 21:13969(R) (GA-6245)
fabrication of thorium, extraction process to provide recycle material for, 22:8185
fabrication of TRISO coated particle type, quality control in, 23:47169(R) (GA-9440)
fabrication of tubular, equipment for remote, 22:19025(P)
fabrication of tungsten—uranium carbide, 23:36213(P)
fabrication of uranium carbide (UC) and uranium carbide—tungsten cermets, for irradiation in NRX Reactor, 23:13536 (AI-AEC-12721, pp 261-73)
fabrication of uranium ceramic, methods for, 24:9502
fabrication of uranium dioxide, accuracy of accounting systems for determination of uranium-235 losses during, 24:2423 (WASH-1140, pp 115-62)
fabrication of uranium dioxide, reprocessing plant flowsheets for, 23:3121
fabrication of uranium dioxide, simplified method for powders, 22:19508(P)
fabrication of uranium oxide (UO_2) pellets, production steps in, 23:45145
fabrication of uranium, residue recovery flowsheets for, 23:43502 (CONF-680506-, pp 121-39)
fabrication of uranium-233-containing pyrolytic carbon- and silicon carbide-coated, economics of sol-gel method for, 23:48347 (GAMD-9367)
fabrication of, at ANL Fuel Cycle Facility, 21:13947(R) (ANL-7286)
fabrication of, atomic absorption spectrophotometry for control of, 24:36345 (CEA-R-3973)
fabrication of, bibliography on packing of particles for, 21:42834 (MLM-1424)
fabrication of, bibliography on safety in, 24:16219 (ORNL-NSIC-72)
fabrication of, chart on capabilities of U. S. companies for, 23:3038
fabrication of, chemically combined with moderator for fluid cooled reactors, 21:5653(P)
fabrication of, design reprocessing of, design criteria for facility safeguards systems for, 25:21305
fabrication of, effects of criticality safety on economics of, 24:425
fabrication of, fluidized-bed process for processing of plutonium- or uranium-containing hard scrap from, 25:46547(P)
fabrication of, handling and storage of wastes from, 21:39169
fabrication of, market analysis for support industries in, 23:19441 (NYO-3853-1)
fabrication of, methods for materials accounting during, 24:2421 (WASH-1140, pp 29-73)
fabrication of, nondestructive methods for assay of special nuclear materials during, 25:1(R) (GEAP-12114-1)
fabrication of, nuclear materials management in, 24:39181 (WASH-1147, pp 17-20)
fabrication of, nuclear materials management in, 24:39202 (WASH-1147, pp 173-7)
fabrication of, nuclear materials management in facility for, 24:39171 (KFK-908)
fabrication of, optimization of plant capacity for, 23:35386
fabrication of, production reprocessing of, production and disposal of alpha-contaminated solid wastes from commercial, 25:13188 (BNWL-B-34)
fabrication of, review of improvements and advancements in, 22:25158
fabrication of, review of Italian activities in, 25:52421 (A/CONF.49/P-181)
fabrication of, role of US industry in, 24:46311
fabrication of, survey of facilities for, 25:640
fabrication processes for coated-particle, 22:39937
fabrication techniques for fast breeder, development of, 21:35572 (EURFNR-312)
fabrication techniques for, review of, 23:9265
fabrication, performance, processing, and properties of coated-particle, handbook on, 23:6715 (ORNL-4324)
fabrication, properties, and structure of vitroceramic, 23:48580
failure mechanisms for breakup of pyrolytic carbon-coated particle-type, analysis of heat transfer and energy deposition, (E/T), 22:53461 (LA-3547)
failure of coated particles in bonded beds at high temperatures, 24:24835 (ORNL-4508, pp 3-70)
failure of coated particles in bonded beds at high temperatures, 24:4060 (ORNL-4424, pp 3-72)
failure of, iodine losses from sodium blanket in, 23:47452
filter for MSRE fused salt, design, construction, and testing of Inconel 600 fiber metal, 23:19500 (ORNL-TM-2478)
financing of, effects on international economics, 24:11133
fine grained, development of uranium—chromium—germanium—zirconium alloy for, 21:39589(P)
fission damage processes and mechanisms in, E/T), 22:30155(R) (NAA-SR-12296)
fission effects in metal, analysis of swelling, 21:40564(R) (NAA-SR-12395)
fission effects in metallic uranium- and thorium-based, 22:25133 (NAA-SR-12549)
fission gas behavior in refractory, physical, chemical, and mechanical processes of, (E/T), 24:46133
fission gas bubble diffusion from dislocations in, models for, 24:12467
fission gas bubble growth in uranium dioxide, at 1300 to 1500°C, 23:22698
fission gas bubbles in mixed oxide, behavior of, (T), 24:7310
fission gas bubbles in, calculation of forces between, 23:36169
fission gas desorption from uranium dioxide, 21:7863 (CEA-R-3021)
fission gas diffusion and bubble growth in, (E/T), 25:28688 (BMI-1898, Sect.B)
fission gas diffusion and bubble growth in, (T), 25:44118(R) (BMI-1905)
fission gas diffusion and solubility in refractory, at 1300 to 1800°C, 24:1062(R) (BMI-1870)
fission gas diffusion from ceramic, formulas for, 21:12265
fission gas diffusion from mixed carbide, 21:31898(R) (ANL-7329)
fission gas diffusion from oxide, model of, 24:3049 (WAPD-TM-805)
fission gas in, literature review of behavior of, 23:24998
fission gas migration in, 21:40624
fission gas re-solution rates in irradiated oxide, research progress in, 25:42952(R) (GEAP-12188)
fission gas re-solution rates in irradiated oxide, research progress on, 25:42953(R) (GEAP-12189)
fission gas release and swelling of, model for determination of, 25:2789 (ORNL-4570, pp 68-75)
fission gas release from carbide, metallic, molten salt, and oxide, 25:35550
fission gas release from carbon coated, effect of burnup on, 22:11046 (ORNL-TM-2061)
fission gas release from coated particle, effects of temperature on, (E), 25:5997
fission gas release from coated particles of, during irradiation, (E), 24:43866
fission gas release from high burnup uranium carbide (UC) uranium carbide (UC)—zirconium carbide (ZrC), and thorium carbide (ThC_2)—uranium carbide (UC_2) coated particle, 24:43759 (DP-Report-413)
fission gas release from sintered uranium oxide (UO_2) at constant power, Cyrano capsule measurements on, 23:9154 (CEA-R-3618)
fission gas release from uranium oxide (UO_2), effects of high temperature on, (E), 25:28821
fission gas release from, effects of swelling on, (E), 24:4163 (CEA-CONF-1357)
fission gas release in high burnup plutonium—uranium alloys, 21:8152
fission gas release in, chemistry of, 21:34173
fission gas retention in irradiated ceramic, (T), 24:46130
fission of uranium and plutonium, low-mass atom production in fast-neutron, 22:46859 (ANL-7434)
fission product absorption by, effects of burnup on, (E/T), 21:8132
fission product behavior in, model of, 23:24963 (RT/MET-(68)4)
fission product bubble distribution in, microscopy determination of, 25:6889 (BMI-1886, Sect. B)
fission product concentration in molten-salt, 22:47112 (ORNL-4254, pp 88-173)
fission product content in, effects of variations in neutron spectra and fuel composition on, (T), 25:1850 (CEA-R-3987)
fission product decay in, effects of irradiation time on γ ray intensity from, (T), 25:23389
fission product decay in, time-dependent heat energy release from, (T), 25:20834 (JAERI-Memo-4205)

fission product diffusion from beryllia—thoria—urania, effects of fabrication on, 21:1958 (GA-7120)
fission product diffusion from ceramic, mechanisms of, 21:27841
fission product diffusion from coated particle, 24:40983 (DP-Report-137)
fission product diffusion from urania, effects of irradiation on, 21:11326
fission product diffusion from, design of system for continuous monitoring of, 24:16736 (CONF-690910-, pp 281-95)
fission product diffusion from, measurement of, 21:14067 (AERE-R-3913)
fission product distribution in graphite of irradiated Dragon, 25:39 (DP-Report-324)
fission product distribution in irradiated ceramic, α, β, and γ autoradiographic methods for determining, 25:48758 (CEA-CONF-1774)
fission product distribution in mixed oxide, 25:39470(R) (ANL-7750)
fission product distribution in MSRE, 23:45182 (ORNL-4396, pp 129-209)
fission product distribution in plutonia—urania, effects of stoichiometry on, 21:46027(R) (NUMEC-3432-35)
fission product distribution in, beta—gamma autoradiographic method for studying, 25:52363
fission product distributions in coated-particle, gamma spectrometric studies of, 22:39998
fission product distributions in irradiated, gamma spectrometric studies of, 22:36543 (ANL-7450, pp 39-74)
fission product in, effects on high burnup of, 21:7865 (EUR-3119.e)
fission product migration in, research at Seibersdorf reactor center, 24:8892 (SGAE-G-14/1969)
fission product re-solution rates in, measurement of, 25:58411(R) (GEAP-12217)
fission product release by coated particle, (E), 25:23313(R) (ORNL-TM-3263)
fission product release from, 24:2266(R) (HMI-B-84)
fission product release from and distribution in, analysis of gaseous, 25:48360
fission product release from annealed coated particle, 22:11046 (ORNL-TM-2061)
fission product release from ceramic compacts and coated particle, at high temperatures, (E/T), 24:40979 (DP-Report-105)
fission product release from ceramic, bubble migration in, 24:2266(R) (HMI-B-84)
fission product release from coated particle, 24:18585(R) (GA-9815)
fission product release from coated particle ceramic, 24:28987(R) (GA-9944)
fission product release from coated, calculation of, 22:47054
fission product release from coated-particle, on-line γ-spectrometer for detection of gaseous, 23:17291
fission product release from failed pyrolytic carbon coated particle type, 25:34392(R) (ORNL-4647)
fission product release from GA4-FS capsule containing beryllium oxide (BeO)—thorium oxide (ThO_2)—uranium oxide (UO_2), effects of burnup and temperature on gaseous, 23:13503(R) (GA-6532)
fission product release from gas cooled coated particles, 25:48291(R) (ORNL-TM-3411)
fission product release from high burnup coated particles, effect of temperature on, 24:4060 (ORNL-4424, pp 3-72)
fission product release from high burnup coated particle, use of post irradiation annealing for, 22:46911(R) (ORNL-4266)
fission product release from high temperature gas cooled, calculation of heavy metal isotope, 23:4259
fission product release from irradiated carbide, effects of particle coating on, 24:42279 (DP-Report-303)
fission product release from irradiated coated particle, effects of annealing on, 25:48260(R) (ORNL-4637)
fission product release from irradiated microspheres of, γ spectrometric studies on, 24:13777 (ORNL-4466, pp 62-88)
fission product release from molten, effects of internal convection currents on, (T), 24:38587
fission product release from molten-salt, 21:23614 (ORNL-4060)
fission product release from overheated bonded uranium carbide (UC_2), in simulated HTGR coolant loss accidents, (E), 23:17234 (ORNL-TM-2388)
fission product release from pyrocarbon-coated microspheres of, mechanisms of, 22:26093 (ORNL-4229, pp 125-41)
fission product release from silicon carbide coated particles during postirradiation annealing, 23:34896(R) (GA-8356)
fission product release from TRISO coated uranium oxide (UO_2), effects of coating failure on, 24:29038(R) (ORNL-TM-2919)
fission product release from, effects of rapid reactor power increase on, (E/T), 24:29094(T) (AERE-Trans-1122)
fission product release from, in simulated reactor accidents, 21:25689
fission product release from, kinetic energy distributions for, (T), 24:50216 (PEL-198)
fission product release measurement in irradiation capsules, helium sweep circuit for, 22:42371
fission product release measurements from fast breeder, review of, 22:53396
fission product retention by coated particle carbide, evaluation of, 24:42228 (DP-Report-138)
fission product retention by pyrolytic-carbon-coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle type, analysis at 1100 and 1300°C of, 23:9156 (GA-8524)
fission product retention in high temperature dispersed urania and uranium carbide, 21:45994 (CEA-Bib-86)
fission product retention in, using silicon carbide coatings, 21:16663
fission product separation from, equipment and method for gaseous, 24:31556
fission product steady state and transient release from one dimensional multilayered, SLIDER computer program for, 24:4164 (GA-8566)
fission product transport and deposition measurements for gas cooled, 22:46911(R) (ORNL-4266)
fission product volatilization in MSRE, 23:45182 (ORNL-4396, pp 129-209)
fission products from uranium oxide (UO_2), effects of high heat rating operation on prompt release of, 22:7816(R) (ORNL-TM-2057)
fission products from uranium-235, gamma ray spectra as a function of time for gross, 23:24426 (IN-1218, pp 181-316)
fission products in gas phase around melted, chemical equilibria of, 23:31342
fission products in irradiated mixed oxide, distribution of gamma-emitting, 21:42725(R) (ANL-7357)
fission products in refractory, model of bubble growth from, 23:32068(R) (BMI-1854)
fission products released from Zircaloy-clad high-burnup urania, behavior of, 21:25630(R) (ORNL-4071)
fission rate effects on oxide-type, 22:33096 (KFK-700(Pt. VI))
fission rate effects on oxide-type, 22:53273(T) (EURFNR-472)
fission ratio for uranium carbide, in heavy water-moderated ECO reactor, (E/T), 22:37551
fission-gas bubbles in, analytical study of collision coalescence of, 21:31899 (BMI-1805)
fission-gas diffusion in ceramic, analysis of, (T), 23:4471
flow of pebble-bed reactor, analysis of bead path, (E), 22:30191
flow restrictor screens for melted fast reactor, testing of metallic and ceramic, 23:4263
fluid flow in molten-fueled reactor triangular-shaped bundle-type tubes, analysis of two-dimensional, (T), 23:2030 (LA-DC-9807)
fluid-bed studies using irradiated, 21:23589(R) (ANL-7308)
fluid-bed studies with irradiation, 21:31898(R) (ANL-7329)
fluorination data for MSRE fuel salt, 23:21501 (ORNL-4344, pp 1-52)
fluorination of molten-salt, 22:47204 (ORNL-4254, pp 241-78)
fluorination of molten-salt, continuous, 23:19829 (ORNL-4344, pp 291-327)
foaming behavior in molten salt, 23:45182 (ORNL-4396, pp 129-209)
fragmentation of metallic, dynamics of, 22:12006(R) (ANL-7399)
fuel containment system for gas-fueled rocket reactors, description of magnetic field, 22:32948
fuel cycle economics for boiling water, 21:35604
fuel cycle economics for Fort St. Vrain Power Reactor, 21:38447(R) (GA-6830)
gamma heating in, calculation using infinite medium spectra, 22:3156
gamma scanning of DWREX-8 capsule, analysis of, 21:42729(R) (LA-3745)
gamma scanning of Garigliano, power distribution analysis by, 21:1163(R) (GEAP-5190)
gas bubble growth and nucleation in refractory, models for, 24:25762(R) (BMI-1839)
gas bubble growth in refractory, equations for vacancy diffusion-controlled, 24:25761(R) (BMI-1823)
gas generation and swelling in oxide, mechanisms of, 25:52474(T) (JPRS-53800, pp 196-204)
gas pressure in irradiated coated particle, method for direct measurement of, 24:21447
grain shielding factor calculation for coated-particle, 25:53494
handling and sampling of irradiated oxide, 23:9308 (TRG-Report-1735)
handling and shipping in Germany, licensing regulations for, 25:48901
handling and shipping of irradiated, in Italy, 25:44573
handling and shipping of spent, methods for, 24:36536 (CONF-700207-(and Add.))
handling and shipping of, safety criteria for, 24:14234
handling and storage of plutonium-containing, design of criticality-safe containers for, 25:2419 (KFK-1192)
handling and storage of, system design for, 21:17459 (NAA-SR-11378(Vol.1))
handling and storage of, use of protective gases in, 25:34860
handling at Plutonium Recycle Test Reactor, safety measures for, 21:36569 (BNWL-SA-1345).
handling for electron microprobe analysis, design of pneumatic system for, 24:475
handling of carbon-coated microspheres of, equipment and methods for, 23:21926 (ORNL-TM-2495)
handling of irradiated plutonium-containing, design and operation of equipment for, 24:471
handling of microsphere-type recycle, design of remote equipment for, 24:19186 (ORNL-TM-2782)
handling of spheres in pebble bed reactors, 21:14024
handling of, criteria for maximum efficiency safeguards system for facilities for, 25:21310
handling of, design of facility for, 24:5725
handling, shipping, storage, and use of, safety specifications for, 24:29479 (DUN-5750)
heat rating of fast, limiting values of, 24:18660
heat rating values of carbide, metal alloy, and oxide fast, comparison of, 24:18668
heat transfer analysis of cermet, for FTR, 21:34152 (APDA-194)
heat transfer characteristics in liquid sodium by debris pieces of, 25:57069(R) (ANL-7800)
heat transfer characteristics of coated particle, reactor transients caused by, 21:35576 (GAMD-7547)
heat transfer characteristics of molten salt, 23:21452 (ORNL-4344, pp 53-108)
heat transfer in fluid-fueled reactor, analysis of vertical-tube laminar and turbulent upward-flow, (E/T), 23:7390
heat transfer over surface of spherical pebbles in a rhombohedral fixed bed, (E/T), 22:10021
heat transfer to cladding from compacted ceramic, effects of bismuth bonding on, 23:14385
heat treatment of plutonium, 21:24741(P)
heat treatment of uranium alloy, 21:39599(P)
heat treatment of uranium—aluminum—iron alloy for, 21:39590(P)
heavy element content of, method of calculating fission-induced, 25:4815 (RD/B/N-1722)
helium production in, effects of alpha decay, triple fission, and fission neutron irradiation on, 24:21401
homogeneity of metal-clad oxide, γ-attenuation method for inspection of, 22:14739
homogeneity of mixed-oxide, design of electric probe for determination of, 21:38755
hydrolysis of carbide, release of rare gases in, 24:27033 (GAMD-9670(Rev.))
incorporation of coated particles of, in graphite, 24:42196 (DP-Report-151(Pt.2))
inspection and handling of irradiated, design and operation of Juelich HZ hot cell for, 24:5854
inspection of carbon-coated microspheres of, equipment and methods for, 23:21926 (ORNL-TM-2495)
inspection of irradiated plutonium-containing, design and operation of alpha—gamma hot cell for, 24:5853
inspection of irradiated, description of renovated Lawrence Radiation Laboratory beta—gamma hot cell for, 24:5855
inspection of irradiated, design and operation of Isodore facilities at Saclay for metallurgical, 25:10794 (CEA-R-4120)
inspection of irradiated, design of argon atmosphere-controlled hot cell for, 24:5858
inspection of irradiated, development of stereomacroscopic equipment for in-hot cell, 25:4309
inspection of irradiated, neutron radiographic method for, 24:36528(T) (NP-tr-1900)
inspection of irradiated, renovation of Lawrence Radiation Laboratory beta-gamma hot cells for post-irradiation, 24:14229 (UCRL-71558)
inspection of irradiated, ventilation of hot laboratories for, 24:31566
inspection of radioactive, facility for, 21:9202 (RFP-658, pp 84-96)
inspection of zirconium-clad thorium—uranium, 21:18203(R) (IDO-17218)
inspection of, developments in neutron radiographic, 24:39207 (IN-1317, pp 233-381)
inspection of, electron microscopy methods for high-temperature, 23:28651 (BNWL-SA-1565)
inspection of, using neutron radiography, 21:12264
interactions with sodium coolant in fast reactor accidents, energy release from, (T), 24:33390
international commerce in, legal and political aspects of control of, 22:40354
international commerce in, legal and political aspects of control of, 22:40353
international commerce in, legal and political aspects of control of, 22:40352
inventory method for, in-pile, 21:2820 (CEND-541)
inventory of fast-breeder, economic aspects of, 21:7942
iodine-129 oxidation states in irradiated uranium dioxide, 23:47371 (WAPD-TM-851)
iodine-131 release from pyrolytic carbon- and silicon carbide-coated, during metallographic preparation, effects of silver nitrate on, 25:6897
irradiation performance of, analysis of fission gas release rates for, 24:50246 (ORNL-4601)
irradiation testing of bonded beds of coated particles of, in-pile, 24:14967 (ORNL-4400, pp 103-17)
irradiation testing of bulk oxide, 23:43385(R) (ORNL-4429)
irradiation testing of coated particle HTGR, 25:49568 (GA-10468)
irradiation testing of coated-particle, 23:43385(R) (ORNL-4429)
irradiation testing of high-temperature, 24:14967 (ORNL-4400, pp 103-17)
irradiation testing of HTGR, 24:19052(R) (ORNL-TM-2886)
irradiation testing of mixed plutonium—uranium carbides, nitrides, and carbonitrides, thermal and epithermal neutron-, 21:34973 (CEA-R-3223)
irradiation testing of molten-salt, 22:25374 (ORNL-4229, pp 22-49)
irradiation testing of, diffusion of cesium through pyrocarbon coatings during, 25:55647 (ORNL-4717, pp 83-90)
isotope buildup and depletion in, ALCHEMY-2 computer program for calculation of, 24:4041 (DUN-6065)
isotopic analysis of Halden, 21:31943(R) (NP-16803)
isotopic composition determination by selective sampling of spent cores, (E/T), 21:34119
isotopic composition of high burnup uranium oxide (UO_2), complete, (E), 24:46124(R) (GEAP-10160)
isotopic composition of irradiated natural uranium, analysis of, 21:21621 (AECL-2631(Rev.))
isotopic composition of irradiated, formulas for, 21:17536(R) (EURAEC-1742)
isotopic composition of plutonium bearing, effects of thermal reactor burnup on, 25:54093 (A/CONF.49/P-610)
isotopic composition of plutonium, effects on Doppler coefficient of, 21:21660
isotopic composition of spent, from discharge to ten years cooling time, (T), 24:26775 (ORNL-TM-2897)
isotopic composition of, long-term variations in, (T), 25:15376
isotopic composition of, method of determining in reactors, 21:2820 (CEND-541)
isotopic content of, effects of long-term irradiation on, (E/T), 24:49972 (AEEW-M-934)

isotopic content of, effects on dynamics of large fast reactors of, 22:14180
loading of heavy water, use of depleted uranium from light water reactors for, 23:11240
loading of particulate, design of conveyor for, 25:2395(P)
losses in fuel cycles and in shipping, methods for minimizing, 24:441
machining of irradiated plutonium-base, review of equipment for micro-, 24:46812 (CEA-CONF-1564)
machining of metallic uranium, equipment and procedures for, 21:41544 (NLCO-997)
management at Commonwealth Edison, review of methods for, 23:43493 (CONF-680506-, pp 1-8)
management efficiency for thorium—uranium-233, 22:20970(P)
management for boiling reactor, dynamic programming algorithm analysis of economic optimum, 23:4253
management for high-temperature gas-cooled reactors, effects of partial-recycle techniques on optimum economic, 23:15641 (GAMD-7284)
management in power reactors, ability of utilities for, 23:28389
management of AVR reactor, effects of loading schemes on optimum, 23:9167
management of graphite moderated gas cooled, information theory methods for, 24:16087
management of light water, survey of methods for, 24:7621
management of pebble-bed reactor, analysis of optimum, 23:9167
management of, description of accurate accounting for, 22:37616
management of, description of Purdue University curriculum on, 24:423
management of, destructive and nondestructive measurement techniques for, 23:31235 (BNL-13627)
management program for USA, computer simulation of, 22:25042
management scheme for SGHW-type, METHUSELAH—AIMAZ analysis of, 22:30319
management schemes for LMFBR, effects of large uncertainties in plutonium-239 cross sections on, 23:28441 (BAW-3867-7)
management schemes for SGHWR, 23:13396
management schemes for steam-generating heavy water-moderated reactors, analysis of optimum, 22:30259
marking for differentiating between normal and test, 22:4759(P)
mass for subcritical assembly Ressuco, calculation of uranium oxide (UO_2), 22:27463 (IEA-130)
mass spectrometric study of rhenium clad, 21:23589(R) (ANL-7308)
mass transport model for oxide-type, 22:33096 (KFK-700(Pt. VI))
mass transport model for oxide-type, 22:53273(T) (EURFNR-472)
materials development for, 23:29952(R) (GEMP-1010)
materials development for, 1967, 22:23760(R) (IN-1131)
materials development for, summary for 1965, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
materials evaluation of sodium-cooled fast, 21:38457(R) (GEAP-5491)
materials for, 22:606 (CONF-661011, pp 8-10)
materials for development of, 22:21650
materials for fast-flux pulse reactors, identification of potential, 21:1205 (BMI-X-10170)
materials for water-cooled reactors, summary of properties and performance of, 23:11174
materials for, bibliography on effects of steam and water on, 22:24962 (HMI-B-68)
materials for, development status of, 25:8828 (BNWL-SA-3426)
materials for, review of selection methods for, 22:52192
materials for, review on development of, 25:45060
materials for, studies of thermodynamic properties of, 21:13226 (ORNL-3970, pp 150-63)
matrix of, description of fission product retaining, 23:45155(P)
mechanical properties of fueled and unfueled resin-stick-type, 22:11046 (ORNL-TM-2061)
mechanical properties of high temperature oxide, 22:9988(R) (ANL-7391)
mechanical properties of oxide, computer analysis of, 21:8164
mechanical properties of oxide, effects of material variables, stress, and temperature on, 22:4871 (WAPD-TM-587)
mechanical properties of oxide, inputs for computer analysis of, (T), 21:1940 (KAPL-P-3174)
mechanical properties of oxide, measurement of in-pile, 21:8161
mechanical properties of oxides, measurement of in-pile, 23:9242 (KAPL-3167)
mechanical properties of plutonium oxides (PuO_2)—uranium oxides (UO_2), uranium oxides (UO_2), and uranium nitrides (UN), evaluation of, 23:11351 (BNWL-919, pp 5.1-17)
mechanical properties of sol-gel-derived, 23:43385(R) (ORNL-4429)
mechanical properties of, analysis of digital computer input for, (E/T), 22:35665 (KAPL-3300)
mechanical properties of, produced by sol-gel process, 21:44961 (ORNL-TM-1971)
meltdown energy release from FTR cermet, metal alloy, mixed-carbide, and mixed-oxide, 23:21509 (APDA-208)
meltdown in TREAT, estimation of total energy for, 25:58344(R) (LA-4693)
meltdown of irradiated, fission product release in, 21:12220(R) (IDO-17186)
meltdown studies in TREAT, 21:12231(R) (ANL-7267)
meltdown studies in TREAT, 21:13946(R) (ANL-7279)
meltdown studies in TREAT, 21:13947(R) (ANL-7286)
meltdown studies on, experimental facilities for, 21:40531 (ANL-7290, pp 188-215)
meltdown studies with TREAT, 21:23589(R) (ANL-7308)
melting in fast reactors of ceramic, computer code for calculation of, 22:30202
metallographic examination of clad, 21:42729(R) (LA-3745)
metallography of irradiated, equipment and techniques for studying, 23:47370 (UCRL-71704)
metallography of irradiated, French equipment and methods for, 24:5832
metallography of pyrolytic carbon- or tungsten-coated urania and uranium carbide spheres, 21:30980 (LA-DC-8676)
metallurgy development for, 22:602(R) (BMI-1809)
microstructure and properties of, development of methods for characterization of, 25:27293 (RT/ING-(70)21)
microstructure of irradiated plutonium dioxide—uranium dioxide, effects of nonstoichiometry on, 23:12441 (BNWL-SA-2030)
microstructure of irradiated plutonium oxide (PuO_2)—uranium oxide (UO_2), analysis of nonstoichiometric effects on, 23:4241
microstructure of mixed oxide, effects of thermal neutron flux on, (E), 25:5993
microstructure of thoria—urania and urania, effects of heat on, 21:46006
mixtures of fission products and, chemical equilibria of, 22:27416(R) (ORNL-4228)
molybdenum fission yields from, measurement of, 21:21873
monthly progress report on, Argonne National Laboratory, 22:35422(R) (ANL-7445)
monthly progress report on, Argonne National Laboratory, 22:37401(R) (ANL-7457)
monthly progress report on, Argonne National Laboratory November 1969, 24:13520(R) (ANL-7640)
monthly progress report on, Argonne National Laboratory, 23:4164(R) (ANL-7478)
monthly progress report on, Argonne National Laboratory, 22:42158(R) (ANL-7460)
monthly progress report on, Argonne National Laboratory August 1968, 22:50699(R) (ANL-7487)
monthly progress report on, Argonne National Laboratory December 1968, 23:19461(R) (ANL-7527)
monthly progress report on, Argonne National Laboratory February 1969, 23:23848(R) (ANL-7553)
monthly progress report on, Argonne National Laboratory January 1969, 23:19462(R) (ANL-7548)
monthly progress report on, Argonne National Laboratory June 1969, 23:45046(R) (ANL-7581)
monthly progress report on, Argonne National Laboratory July 1969, 23:45047(R) (ANL-7595)
monthly progress report on, Argonne National Laboratory March 1969, 23:26018(R) (ANL-7561)
monthly progress report on, Argonne National Laboratory September 1968, 23:11153(R) (ANL-7500)
monthly progress report on, Argonne National Laboratory September 1969, 24:4023(R) (ANL-7618)
monthly progress report on, Argonne National Laboratory, October 1968, 23:11154(R) (ANL-7513)
monthly progress report on, Argonne National Laboratory, November 1968, 23:13409(R) (ANL-7518)
monthly progress report on, Argonne National Laboratory, August 1969, 24:1963(R) (ANL-7606)
monthly progress report on, Argonne National Laboratory, October 1969, 24:9077(R) (ANL-7632)
monthly progress report on, Pacific Northwest Laboratory November 1966, 23:23849(R) (BNWL-359)
monthly progress report on, Pacific Northwest Laboratory December 1966, 23:23850(R) (BNWL-369)
monthly progress report on, Pacific Northwest Laboratory January 1967, 23:23851(R) (BNWL-375)
monthly progress report on, Pacific Northwest Laboratory March 1967, 23:23853(R) (BNWL-425)
monthly progress report on, Pacific Northwest Laboratory April 1967, 23:23854(R) (BNWL-444)
monthly progress report on, Pacific Northwest Laboratory February 1967, 23:23852(R) (BNWL-404)
monthly progress report on, Pacific Northwest Laboratory May 1967, 23:23855(R) (BNWL-468)
monthly progress report on, Pacific Northwest Laboratory June 1967, 23:23856(R) (BNWL-499)
multiplication constant for, experimental technique for measurement of infinite, 24:36071(P)
neutron absorption by, with anisotropic microscopic self-shielding factors, 21:35390 (KAPL-P-3340)
neutron absorption in, method of calculating effects of grain structure on, 23:4409
neutron buckling and spectra of graphite-moderated subcritical, 21:8065
neutron buckling in hexagonal lattice arrays of 2.1 wt percent enriched uranium tubes in light water, measurement of material, 23:15689
neutron buckling in spherical-pellet, TRUNK code for, 21:21798 (BNWL-330)
neutron capture-to-fission ratio for plutonium-239, measurements of, 23:23671 (CEA-N-989)
neutron cross section calculation from reactivity measurements, computer code for, 21:2894 (IN-1017)
neutron cross sections for dispersion-type, effective thermal, (T), 21:9907
neutron cross sections in unresolved energy region for, S-matrix formulation of Doppler broadened, 23:19555
neutron Doppler effect with anisotropic scattering and nonuniform temperature distributions, calculation using modified P/sub n/ method, (T), 22:7627
neutron flux and power peaking factors in FFTF, parametric analyses of, 21:46938(R) (BNWL-501)
neutron flux flattening by non-uniform distribution in slab geometry, 21:5618 (JINR-E4-2939)
neutron flux improvement in, using californium-252 additions, 22:12498(P)
neutron inelastic scattering in, characteristics of thermal, (E/T), 24:50244 (IN-1427)
neutron multiplication factor dependence on, calculations of, 21:35657
neutron reactions (n,2n) with thorium-base, formation of uranium-232 and thorium-228 in, 21:25540
neutron resonance absorbers in, nuclear effective temperature for, (T), 24:33272
neutron resonance absorption in systems of moderator—, analysis using Kantovorich variational method, (T), 23:49303
neutron resonance absorption in, effects of nonmoderating collisions in cladding on, (T), 24:50230
neutron resonance absorption in, equivalence relation for, (T), 25:28666
neutron resonance absorption in, lead slowing-down-time spectrometer for measuring, 25:15921
neutron resonance flux in heterogeneous, spatial depression of, (T), 21:15708
neutron resonance integral calculations for, accuracy of approximations in, 24:33553
neutron resonance integral in thorium oxide, temperature dependence to 1550°C of effective, (E), 21:12267
neutron resonance integrals for, effective, (T), 22:24794
neutron resonance interaction effects for, symmetric resonance line shape function calculation of, (T), 23:24006
neutron resonance parameters for, calculation of 0.05 to 200 keV, 23:21552
neutron self-shielding factors for closely spaced, calculation of, (T), 22:5720
neutron spectra in plutonium-containing, estimation of, 21:21371 (RT/FI-(66)28)
neutron spectral measurements in depleted-uranium spherical, fast, 21:38211
neutron transport in fuel-moderator slabs with anisotropic scattering, disadvantage factor for, 24:30683
neutronic properties of pebble bed, determination of, 23:4192
neutronics characteristics of Phoenix, 22:14289 (BNWL-635)
neutronics of carbide, cermet, and oxide driver, (E/T), 21:8082
noble metal migration in MSRE, 24:18677 (ORNL-4449, pp 1-38)
nuclear analysis of spherical, 21:34137
nuclear data library for irradiated fast, description of revised, 23:31155 (BNWL-962)
optimization of plutonium, for water-moderated reactors, 21:30106 (BNWL-SA-738)
ownership of, legal aspects of private, 23:43500 (CONF-680506-, pp 97-106)
oxidation in carbon—steam system, 21:40571(R) (ORNL-TM-1913)
oxidation kinetic studies on SNAP, 21:38646
oxidation kinetics of irradiated urania sphere, in dry air at 320 to 380°C, 21:46030
oxidation of bonded pyrolytic carbon coated particle-type, steam, 22:42201 (ORNL-4269)
oxidation of coated particle, literature survey on steam, 22:53276 (HMI-B-76)
oxidation of coated particles of, by water vapor at 1100 to 1400°C, 21:21919 (ORNL-4076, pp 81-115)
oxidation of pyrolytic-carbon-coated particles of, by water vapor, 21:26873 (ORNL-4014)
oxidation—reduction potential of MSRE, equipment and method for measurement of, 24:13735 (ORNL-4466, pp 26-41)
packaging and shipping of irradiated, in Canada, development of special arrangement methods for, 25:34843 (AECL-3804)
palladium-107 content of irradiated, 23:38173(R) (BNWL-1085)
particle size distribution in ceramic powders for, sedimentation method for determination of, 24:10165
particle size effects on beryllium-moderated reactor dynamics, measurement for, 21:35661 (AAEC/E-167)
performance characteristics of uranium carbide, evaluation of, 21:38432(R) (AI-CE-4)
performance evaluation of sodium-cooled fast, 21:38457(R) (GEAP-5491)
performance in gas-cooled fast reactors of coated particle, analysis of, 22:42215
performance in sodium cooled fast reactors, comparison of carbide and oxide, 25:51096 (JAERI-13661)
performance in water cooled systems, performance test code for, 25:5991
performance limitations of ceramic and metal, review of, 21:2899
performance of alloy and carbide, for fast test reactors, computer analysis of, 21:38698
performance of Canada power reactors, analysis for optimum economic, 22:42154 (AECL-3067, pp 61-4)
performance of ceramic, 22:46938
performance of ceramic oxide, effects of energy and mass transport on, 24:10191 (BNWL-1202)
performance of ceramic, in pressurized water reactors, 21:12180
performance of ceramic, models for prediction of in-pile, 24:46129
performance of clad ceramic, in boiling reactors, 21:12183
performance of coated particle sphere, computer program calculation of effects of burnup induced stresses on, 25:54113
performance of coated particle sphere, effects of burnup induced stresses on, 25:54111
performance of coated particle sphere, effects of burnup induced stresses on, (T), 25:54112
performance of coated particle, in HTGR systems, (E), 24:50111 (CONF-700401-, pp 494-517)
performance of coated-particle, effect of irradiation temperature on, 21:8147
performance of coated-particle, in-pile tests of model for predicting, 21:21919 (ORNL-4076, pp 81-115)

performance of coated-particle, irradiation testing of, 22:39937
performance of fast, effects of steady state and transient operation on, 24:24785(R) (RCN-114)
performance of FBR development program ceramic, effects of sodium environment on, 23:13519(R) (AI-AEC-12721)
performance of fused chlorides in fast breeder reactors, 21:23643
performance of high temperature gas cooled, multigroup point depletion calculation of thermal-hydraulic, 23:4219 (ORNL-TM-2173)
performance of HTGR, in steam and helium, 24:36356 (ORNL-4586, pp 98-117)
performance of irradiated plutonia—urania, in transient tests, 21:7976
performance of liquid metal cooled fast, 25:51026(R) (ANL-7845)
performance of mixed oxide fast, 24:16190(R) (GEAP-10028-32)
performance of mixed oxide fast, 24:4058(R) (GEAP-10028-31)
performance of mixed oxide fast, during severe overpower transients, (E), 25:46268 (ORNL-TM-3384)
performance of mixed oxide, in fast reactors, 23:37507(R) (GEAP-5700)
performance of mixed oxide, in fast reactors, 23:37506(R) (GEAP-5677)
performance of mixed oxide, in fast reactors, 23:43116(R) (GEAP-10028)
performance of mixed oxide, in fast reactors, 23:43115(R) (GEAP-5753)
performance of MSRE, analysis of 20000 hours, 23:23931
performance of plutonium and uranium in fused salt, comparison of, 21:38574
performance of plutonium enriched burnable poison, effects of hafnium compounds on, 23:40484(P)
performance of plutonium oxide (PuO_2)—uranium oxide (UO_2), effects of density and stoichiometry on, (E), 23:52484 (CEA-CONF-1296)
performance of plutonium—uranium carbide and oxide, in breeders, 21:7941
performance of plutonium-enriched, as function of exposure, 23:28717 (BNWL-1005)
performance of power reactor, review of, 25:54082 (A/CONF.49/P-158)
performance of pressurized water reactor uranium metal, analysis of predicted, 23:37533
performance of pulsed uranium—zirconium hydride, at high temperatures, 21:39685 (SC-DC-67-1999)
performance of pyrocarbon coated particle uranium carbide (UC) and thorium carbide (ThC)—uranium carbide (UC), 24:46054
performance of pyrolytic carbon-coated ceramic, analysis of, 22:24957 (GA-7698)
performance of pyrolytic-carbon coated-particle, irradiation-induced creep effects on, Pradas—Scott model for, 21:34174
performance of silicon carbide (SiC) coated particle type, high temperature, (E/T), 25:57053
performance of unclad metal, 22:5945
performance of urania and plutonia, in fast-thermal coupled-reactor systems, 21:25661
performance of uranium alloys as, 21:11255(P)
performance of zirconium hydride matrix uranium, 24:33458
performance of, comparison of plutonium-239, uranium-233, and uranium-235 for rockets, 21:14055
performance of, computer analysis of factors affecting, 25:2602 (ORNL-4570, pp 191-4)
performance of, development of models for, 24:2341 (ORNL-4470, pp 199-203)
performance of, optimization methods for economic, 24:11126
performance of, requirements of water reactors for, 21:12266
performance potential of coated particle, in fast burst reactors, 24:11250 (CONF-690102-, pp 443-51)
performance test code for, proposal for, 22:28885
performance testing of coated particles, 21:13226 (ORNL-3970, pp 150-63)
performance testing of mixed carbide and oxide, for fast breeder reactors, 25:51028(T) (EURFNR-867)
permeability of vibratory compacted, to gases, 21:8160
phase relations in high-carbon uranium—plutonium—carbide systems, 21:38758
phase studies and properties of beryllia—urania—yttria, 21:1926 (CONF-661003-8)
phase studies of ceramic, 22:21700(T) (EURFNR-387)
physical properties of pebble bed, determination of, 23:4192
physics measurements on plutonium-239 and uranium-235 fuels in intermediate spectrum assembly, (E/T), 24:16249
physics parameters of vanadium-clad, chromium-cermet, and graphite-coated plutonium oxide (PuO_2)—uranium oxide (UO_2) and plutonium carbide (PuC)—uranium carbide (UC), for 1000 MW(e) high-temperature gas cooled breeder reactors, 23:11238 (EURFNR-580)
plutonium content of spent, determinaton by uranium-235 depletion, 25:4257 (BNWL-SA-3304)
plutonium fission in, ASTM method of determining percentage of, 25:28980
plutonium migration in mixed-oxide, (E), 22:27397 (ANL-7375, pp 135-59)
plutonium segregation in mixed-oxide, thermodynamics of, 25:40112
plutonium substitution into boiling water reactors, 21:30149 (JAERI-1123)
power distribution in plutonium recycle, calculations for, 25:54103 (WCAP-4167-1, pp 3.1-30)
preparation and fabrication of fast, procedures for, 21:44846 (KFK-564)
preparation and properties of carbide-type, (E), 22:30155(R) (NAA-SR-12296)
preparation and properties of coated-particle, review on, 23:20464
preparation and properties of mixed-carbide, 23:1991(R) (AI-AEC-12680)
preparation and properties of plutonium carbide—uranium carbide, 23:48571(R) (EIR-146)
preparation and properties of sintered plutonia—urania—zirconia, 21:515(R) (NUMEC-3505-18)
preparation and properties of urania microspheres of, from sol-gel process, 21:17537 (ORNL-TM-1110)
preparation and transport in U.K.A.E.A, 22:47046 (TRG-Report-1694)
preparation by sol-gel process, 24:27031(R) (BAW-3714-16)
preparation by sol-gel process, column chemistry in, 24:41396(R) (ORNL-TM-3112)
preparation during 1970, review of worldwide, 25:34233
preparation for military reactors, summary on, 25:2772 (ORNL-4570, pp 174)
preparation from oxide sol-gel powders, method and apparatus for thoria—urania, 21:17538 (WAPD-TM-581)
preparation methods for powdered ceramic, review of, 23:52487(T) (JPRS-48331, pp 651-7)
preparation of 2 per cent burnup, by incorporation of inactive fission product elements, 23:46147 (CEA-CONF-1297)
preparation of acrylonitrile-bound spherical graphite—thorium—uranium carbide particles of, method for, 23:39032(P)
preparation of actinide oxide—metal cermet-type, method for, 24:44773(P)
preparation of actinide oxide—transition metal cermet, by compacting and sintering mixed powders, 23:34075(P)
preparation of blended fertile and fissile particulate, design of equipment for, 25:19268(P)
preparation of carbide, 21:13250(P)
preparation of carbide and carbonitride, for metallography, 24:8199 (CONF-670533-, pp 116-30)
preparation of carbide and oxide, by powder metallurgical and sol-gel methods, 24:46302 (DP-Report-338)
preparation of carbide and oxide, by sol-gel process, 23:43385(R) (ORNL-4429)
preparation of carbide, by sol-gel process, effects of urea on gelation time in, 24:42201(R) (DP-Report-399)
preparation of carbide, from fast-breeder—reactor oxide fuel using plasma torch, 24:50439(R) (ANL-7675)
preparation of carbide, sol-gel process for, 24:39689(R) (DP-Report-297)
preparation of carbide-coated particulate, for optical microscopy, 23:6719
preparation of carbides by fluidized—bed technique, 22:24925(R) (ANL-7427)
preparation of carbonitride, method for, 25:49512(P)
preparation of ceramic, 24:42203 (IFA-MN-10)
preparation of ceramic, 22:36543 (ANL-7450, pp 39-74)
preparation of ceramic, 21:36073(R) (ANL-7350)
preparation of ceramic dispersion, method for, 21:1934(P)
preparation of ceramic microspheres of, method for, 25:35539(P)
preparation of ceramic plutonium, 22:27487(R) (LA-3880)
preparation of ceramic plutonium bearing, 22:15261(R) (BMI-1819)
preparation of ceramic uranium bearing, 22:15261(R) (BMI-1819)
preparation of ceramic, advantages of sol-gel methods for, 25:8915
preparation of ceramic, by sol-gel process, 23:3128
preparation of ceramic, extrusion mixture for, 23:36189(P)
preparation of ceramic, hydrolysis of hexavalent uranium in, 24:16516
preparation of ceramic, incorporating two or more actinide oxides, 23:41705(P)
preparation of ceramic, review of wet-process methods for, 21:39671 (UJV-1805)
preparation of ceramic, sol-gel process for, 24:14876(P)
preparation of ceramic-coated, 21:20466
preparation of coated carbide and oxide particulate, method for, 24:10147(P)
preparation of coated particle, from carbonized ion exchange resins, 25:48260(R) (ORNL-4637)
preparation of coated particle, HFIR irradiation design parameters for, 22:46911(R) (ORNL-4266)
preparation of coated particulate, method for quality control of coating in, 24:39694(P)
preparation of coated spheroids of uranium carbide for, 21:18318(P)
preparation of coated, equipment and method for, 23:2493(P)
preparation of coated, for high-temperature gas-cooled reactors, 22:11040(P)
preparation of coated-particle carbide, 24:42195 (DP-Report-151(Pt.1))
preparation of coated-particle carbon-graphite matrix, 24:12388(P)
preparation of coated-particle uranium carbide, method for, 23:34077(P)
preparation of coated-particle, by loading actinide ions on exchange resins and carbonizing, 25:2771 (ORNL-4570, pp 161-9)
preparation of coated-particle, method for, 21:10225(P)
preparation of compacted, using mixed binder—fuel powder mixtures, 23:35984(P)
preparation of compacts of ceramic oxide, method for, 23:34079(P)
preparation of dense plutonium dioxide and uranium dioxide, by sintering powders held by organic binder, 23:36202(P)
preparation of dense spherical, from actinide oxide aquasols, 22:28904(P)
reparation of dense urania, by alkaline precipitation of tetravalent uranium ions, 21:31080(P)
preparation of dense uranium dioxide, by sinter-reduction of mixtures with higher oxides, 23:36209(P)
preparation of dense uranium dioxide, by vibration compaction, 23:39035
preparation of Dragon coated particle, economic study on, 24:44755 (DP-Report-340)
preparation of gel-type particulate, method for, 23:41717(P)
preparation of glass, containing at least 40 wt percent of fissionable material, 22:41139(P)
preparation of grain growth resistant uranium dioxide, method for, 23:36210(P)
preparation of granular ceramic, by spray drying chlorinated hydrocarbon slurries of fuel—binder, 23:36203(P)
preparation of graphite-matrix thorium carbide, using furfuryl alcohol binder, 23:22666
preparation of high-density cermet, methods for, 22:26076
preparation of hypostoichiometric plutonium, thorium, and/or uranium dioxide, method for, 23:41723(P)
preparation of improved coated particulate, method for, 24:48884(P)
preparation of iridium—uranium dioxide, 23:36201(P)
preparation of iridium-stabilized uranium dioxide, for fission gas retention, 23:12401(P)
preparation of irradiated cermet and mixed oxide, for metallography, 25:22138 (WHAN-SA-14)
preparation of labeled, for nuclear materials management, 24:41644(P)
preparation of lithium fluoride—uranium tetrafluoride, for MSRE, 23:38046
preparation of lithium fluoride—uranium tetrafluoride, for MSRE, 23:352 (ORNL-4272, pp 1-33)
preparation of lithium-7-labeled lithium fluoride—uranium-233-labeled uranium tetrafluoride, for MSRE, 23:17518 (ORNL-4371)
preparation of low-permeability carbide, methods for, 23:8290(P)
preparation of magnesia—thoria—urania, 21:26883(P)
preparation of metal oxide microsphere, freeze-dry equipment for, 23:43447
preparation of microspheres for, method for, 22:13057(P)
preparation of microspheres of ceramic, by gel-supported precipitation, 24:32488
preparation of microspheres of oxide, sol-gel method using platinum oxide catalyst for, 25:37401(P)
preparation of microspheres of plutonia, thoria, and urania by sol—gel process, 21:22904 (ORNL-P-2796)
preparation of microspherical plutonium dioxide—uranium dioxide for fast systems, 23:3126
preparation of mixed oxide, containing burnable poison, fertile, and fissile components, improvements in sol-gel process for, 24:25770(P)
preparation of mixed oxide, development of modified sol-gel process for, 24:25771(P)
preparation of mixed plutonium carbide—uranium carbide, 23:36204(P)
preparation of mixed uranium carbide, process flowsheet for fluoride reduction method of, 23:20540(P)
preparation of MSRE, 23:21451(R) (ORNL-4344)
preparation of natural uranium, for Canadian reactors, 22:36449
preparation of openly porous microspheres of refractory, 21:26890(P)
preparation of oxide, by heat treating in operating reactors, 21:21814(P)
preparation of oxide, by sol-gel process, 24:22736
preparation of oxide, method for, 25:2784(P)
preparation of oxide, sol-gel process for, 21:45981 (ORNL-4145, pp 180-207)
preparation of particles of oxide, by sol-gel process, 24:9436(R) (ORNL-TM-2792)
preparation of particulate carbide, by casting and hot pressing, 24:42198 (DP-Report-302)
preparation of particulate carbide, design of plasma furnace for, 24:41565 (DP-Report-148)
preparation of particulate ceramic, sol-gel process for, 23:39020 (JUL-583-RW)
preparation of particulate, with pyrolytic carbon coating, 22:11038(P)
preparation of pellet, pressure canning method for, 22:12515(P)
preparation of pellet-type, by compacting and sintering powdered actinide carbide and actinide nitride mixtures, 23:34076(P)
preparation of pellet-type, from ceramic powders, 24:17346(P)
preparation of pellets of actinide oxide, 23:24982(P)
preparation of plutonia and urania, with low oxygen-to-metal ratio, 21:38754
preparation of plutonia—urania, by fluidized-bed technique, 21:13947(R) (ANL-7286)
preparation of plutonia—urania, gel-addition process for, 21:27824(R) (BAW-3714-2)
preparation of plutonium and uranium monocarbide, 23:36199(P)
preparation of plutonium carbide-base with improved creep properties, 23:14383(P)
preparation of plutonium dioxide—thorium dioxide dispersed in beryllium oxide, 23:3108 (BMI-X-10242)
preparation of plutonium dioxide—uranium dioxide, methods for, 21:8154
preparation of plutonium dioxide—uranium dioxide—zirconium dioxide irradiation pellets of, 21:6894
preparation of plutonium oxide—uranium oxide, precipitation method for, 23:1027(P)
preparation of plutonium, methods for, 21:44935 (BNWL-SA-1204)
preparation of pyrocarbon- and silicon carbide-coated particulate, development of methods for, 25:24621 (JUL-687-RW)
preparation of pyrolytic carbon—silicon carbide laminar coated particulate, for metallography, 24:8178
preparation of pyrolytic carbon-coated, 22:21167

preparation of pyrolytic carbon-coated particles of, 23:20538(P)
preparation of pyrolytic carbon-coated, using ion exchange resins, developments in, 25:40097
preparation of pyrolytic-carbon coated, development of pilot-scale equipment for, 23:9611 (ORNL-4302)
preparation of samples of, for metallography, 24:31556
preparation of Sicral-type uranium-base, by grain refining, 24:17223 (CEA-R-3905)
preparation of simulated-irradiated, by incorporation of inactive fission products, 24:10168
preparation of sintered plutonium carbide—uranium carbide, at 84 and 93 percent density, 23:3117
preparation of sintered uranium monocarbide compacts for, 21:39677(P)
preparation of small spherical particles of, 22:11035(P)
preparation of sodium—uranium mononitride blanket-type, 21:45988(P)
preparation of specimens of beryllia-base, for optical microscopy, 21:9236 (GA-6450)
preparation of spherical composite pellets of, method for, 21:45992(P)
preparation of spherical granular ceramic, from powders, equipment and method for, 23:14381(P)
preparation of spherical particles of nitride, process for, 21:19499(P)
preparation of spherical particles of, by sol-gel process, 22:8056
preparation of spherical particles of, equipment and method for, 23:22642(P)
preparation of spherical particles of, sol-gel process for, 23:39031(P)
preparation of spherical particulate actinide carbide, 22:28915(P)
preparation of spherical particulate, by sol/gel method, 22:28912(P)
preparation of spherical, for pebble-bed reactors, 22:52252(P)
preparation of spheroidal particulate carbide, method for, 23:34078(P)
preparation of spheroidal uranium dioxide, coated with alumina or zirconia, 23:8296
preparation of spheroidized, using polymerizable binders, 21:35786(P)
preparation of stable porous uranium dioxide, 23:3129(P)
preparation of stoichiometric crystalline urania, 21:27846(P)
preparation of ternary U-base alloy, 22:23743(P)
preparation of thorium carbide—uranium carbide paste-type, 21:35641(P)
preparation of thorium carbide—uranium carbide, method for dense spheres, 21:24826
preparation of thorium dioxide and uranium dioxide, using small particles, 23:3132(P)
preparation of thorium dioxide—uranium dioxide, 24:19052(R) (ORNL-TM-2886)
preparation of thorium dioxide—uranium dioxide pellet-type, by cold pressing and sintering sol-gel powders, 23:41701 (ORNL-4426)
preparation of thorium dioxide—uranium dioxide, by sol-gel process, development review of, 23:3131
preparation of thorium dioxide—uranium dioxide, sol-gel method for, 23:20535 (ORNL-4350, pp 3-32)
preparation of thorium oxide and uranium oxide, design and operation of fluidized bed columns for, 23:46108 (ORNL-4398)
preparation of thorium oxide—uranium trioxide microspheres of, effects of 2-ethyl-1-hexanol on, 23:41702 (ORNL-TM-2516)
preparation of urania—zirconia, by sol-gel method, 21:17538 (WAPD-TM-581)
preparation of uranium carbide, 23:36198(P)
preparation of uranium carbide, by synthesis in liquid metal media, 21:26875 (ANL-7301)
preparation of uranium carbide—zirconium carbide carbon-coated particulate, 21:45989(P)
preparation of uranium carbide-base, with improved creep properties, 23:14383(P)
preparation of uranium dicarbide, crushing and screening equipment for, 23:47683(P)
preparation of uranium dioxide, using sols, 23:6721(P)
preparation of uranium dioxide-base, incorporating boron as burnable poison, 23:16521(P)
preparation of uranium monocarbide, by precipitation from uranyl nitrate using sucrose, 21:472(R) (TID-23364)
preparation of uranium oxide (UO_2), with burnable poison dispersions, 25:39228 (NP-18809, pp 2.1-14)
preparation of uranium oxide—yttrium oxide, method for, 23:34056(P)
preparation of uranium trioxide spherical particles for, process for, 21:18320(P)
preparation of uranium—plutonium carbide fluidized-bed process for, 21:23589(R) (ANL-7308)
preparation of uranium-235-enriched plutonium dioxide—uranium dioxide microsphere and powdered, sol-gel method for, 23:46105(R) (BAW-3714-14)
preparation of, activities of Ugine-Kuhlmann in, 25:249
preparation of, design and construction of Hyderabad plant for, 25:21230 (BARC/INF-3)
preparation of, for AVR and THTR reactors, 25:35544
preparation of, manufacturing process for, 21:21818(P)
preparation of, sol-gel method for, 25:37999
preparation, fabrication, reprocessing, and reconversion from 1970 to 2020, economics of, 23:365 (ORNL-4272, pp 225-37)
pressure generation from water impact with hot powdered oxide, 21:40575(R) (STL-372-50)
price trends of uranium, analysis of worldwide, 21:41004
processing and reprocessing of U. S., prediction of 1980 capacities for, 23:9106
processing beryllia-base, flowsheets for grind—leach methods, 21:24823 (AAEC/E-162)
processing by fixed and fluidized beds, review of mathematical models for comparison of, 23:50002
processing by fluoride volatility, facility for, 22:4418
processing by sol-gel method, review of, 23:3123
processing ceramic, for fast reactors, 21:30093(R) (ANL-7317)
processing cycle for enriched uranium, for light water power reactors, description and economics of, 23:17733 (ORO-665, pp 85-119)
processing depleted, use of boron in, 21:23659
processing fast breeder oxide, flowsheets for, 21:7856(R) (ANL-7255)
processing fast breeder, development and performance of stacked-clone contactor for, 23:364 (ORNL-4272, pp 221-4)
processing fast-breeder, 21:30136 (EURFNR-287)
processing for recovery of plutonium, 21:39024(P)
processing for recovery of plutonium and uranium, fluoride volatility process development for, 23:38149
processing for recovery of plutonium dioxide and uranium dioxide, 22:19618(P)
processing for recovery of uranium and plutonium, 21:10416(R) (K-1691)
processing in Japan, conference on, 24:29481 (KURRI-TR-68)
processing irradiated molten-salt, vacuum-distillation process for, 21:25962(P)
processing irradiated, developments in compact pyrochemical methods for, 21:45191 (ANL-7325, pp 19-49)
processing of breeder, at ORNL, performance of integrated control system for, 25:34847 (ORNL-4607)
processing of carbide, container materials for high temperature alkali metal salt, 25:55376 (CONF-690452-, Paper 9)
processing of carbide, design of high frequency induction furnace for use in, 23:33316(P)
processing of coated-particle graphite-matrix, for recovery of thorium and uranium, 21:30504 (ORNL-4110)
processing of coated-particle, one step-method using potassium hyperoxide and/or sodium peroxide melt, 22:12500(P)
processing of enriched-uranium, stability of samples from, 21:30345(R) (IN-1063)
processing of fast breeder, flowsheet for, 24:258 (ANL-7575, pp 19-46)
processing of fast ceramic-type, 21:13946(R) (ANL-7279)
processing of fast ceramic-type, 21:13947(R) (ANL-7286)
processing of fluidized-bed, methods for disposal of solid wastes from, 23:26491 (BNL-50139)
processing of future power plant, economics of, 22:27974
processing of graphite coated, methods for, 23:39037(P)
processing of graphite-matrix, method for, 23:39036(P)
processing of high-temperature gas-cooled, economics of, 21:38450(R) (GA-7181)
processing of irradiated, 21:25968(P)
processing of irradiated carbide, by oxidation and solvent extraction, 24:50453(P)
processing of irradiated compact uranium dioxide, fluorination process for, 21:43040(P)
processing of irradiated HTGR thorium and uranium, research progress on, 21:43016 (GAMD-6360)
processing of irradiated MTR-type, criticality of pilot plant facility for, in Madrid, 21:162
processing of irradiated uranium-containing, by fluorination, 21:34330(P)
processing of irradiated, chart on capabilities of US companies for, 23:3038
processing of irradiated, containing pyrocarbon-coated thorium and uranium carbide particles in graphite, evaluation of grind-leach, 21:36084 (ORNL-4117)
processing of irradiated, economics of, 21:34322
processing of irradiated, evaluation of phosphate-glass method for waste disposal following, 21:32243
processing of irradiated, plant for, 22:25453 (CEA-N-616, pp 215-45)
processing of irradiated, shielding calculations for Karlsruhe facility for, 22:5397 (NP-17030)
processing of irradiated, using 18-stage centrifugal mixer-settler, 22:8250 (DP-MS-67-71)
processing of low-enrichment oxides by fluoride volatility processes, 21:40694 (ANL-7349, pp 92-109)
processing of molten salts, continuous system for, 21:19415
processing of molten-salt, system design for, 21:23612(R) (ORNL-4037)
processing of MSBR, equipment and flowsheets for, 21:35583(R) (ORNL-4119)
processing of MSBR, on-site, 22:23093 (CONF-660524-, pp 653-69)
processing of MSRE, description and safety analysis of plant for, 22:25463 (ORNL-TM-907(Rev.))
processing of plutonia—urania, volatility process for, 21:8153
processing of power reactor, description of U.K.A.E.A. facilities for, 23:40165 (CONF-681064-7)
processing of spent aluminum-containing, by molten salt extraction, 21:36103(P)
processing of spent aluminum-containing, molten salt method for, 21:36104(P)
processing of spent molten-salt, 21:3156(P)
processing of spent, commercial plant for, 21:15978
processing of spent, design of cryogenic equipment for recovery of rare gases from, 23:24343 (IN-1221)
processing of spent, for recovery of fission products and transuranium isotopes, economics of, 22:49032
processing of spent, from power reactors, economic potential for isotope production in, 22:8317
processing of spent, recovery of plutonium dioxide and uranium dioxide by electrolysis in, 22:30669
processing of spent, solvent partitioning method for, 22:36473
processing of spent, world trend in methods for, 25:18570
processing of thorium—uranium alloy, for Thorium-HWOCR, 21:13948(R) (BAW-393-9)
processing of uranium, optimization of methods for, 23:48464
processing of uranium-base, development and performance of centrifuge extractor and pulse column equipment for, 24:22723(T) (ANL-Trans-799)
processing of uranium-base, development and performance of centrifuge extractor and pulse column equipment for, 24:11653 (CEA-N-1148, pp 183-271)
processing of uranium-containing, role of industry in USA in, 24:46311
processing of zirconium-alloy, control using boric acid as soluble poison in, 22:21155 (IN-1173)
processing of, chart on capabilities of U. S. companies for, 23:3038
processing of, continuous dissolution of uranium dioxide in nitric acid, 21:43033
processing of, criticality data on, 24:16316 (ARH-600(Vol.2))
processing of, criticality studies for, 21:4416
processing of, determination of ruthenium-106 in solutions from, method for spectrophotometric, 21:34213 (PG-Report-677(Rev.))
processing of, developments and requirements in Italy for, 25:44428
processing of, effects on krypton-85 content of Hungarian atmosphere, 23:26367
processing of, effects on power plant economics, 24:29483 (SZS-2/70)
processing of, for recovery of uranium, survey of future of, 21:14289
processing of, optimizing startup and shutdown procedures in, 22:33540
processing of, redox properties of plutonium in, 22:47224
processing of, review of five years experience at Marcoule plant for, 22:47220
processing of, review on operation of facilities in United Kingdom for, 24:20860
processing of, safeguards system for, 24:18692
processing of, second-generation plants for, 21:25959
processing of, soil studies and foundation design for West Valley Processing Plant for, 25:4153 (DOCKET-50201-51)
processing of, technical progress review on, 22:22883
processing of, uranium oxide purification in, 21:43044(P)
processing of, use of liquid metal-fused salt process in, 23:975
processing plants for, dynamic programming method for siting, 23:7658 (CEA-R-3592)
processing plants for, status of, 21:14308
processing plutonium-base, 21:30290
processing spent thorium carbide—uranium carbide particulate, flowsheets for, 23:8292
procurement for power reactors in Japan to 1978, 24:20644(T) (LIB/Trans-240)
procurement program at ORNL for research reactors, 22:10060 (ORNL-4170, pp 162)
production and fabrication of, vibratory compacting method for, 22:2564
production and processing for industry, 23:8145
production and processing of, in Federal Republic of Germany, 25:57666
production and properties of uranium silicide, review of, 23:22619 (AAEC/TM-487)
production and properties of yttrium oxide-modified uranium dioxide, 22:41093(P)
production and reprocessing in Kentucky, development of facilities for, 25:32161 (CONF-700541-, pp 33-42)
production and requirements for, in Japan, 23:16459
production and sale of, in Canada, 24:44768
production and use, economic aspects of, 21:8126 (ORNL-P-2535)
production at ISPRA, 1961 to 1967, 23:19744 (EUR-3940-2)
production at Springfields, review of, 22:28899
production by breeding in charged-particle accelerators, feasibility of, 25:20190
production for organic-cooled heavy water reactor, plant design for, 22:13049
production for western Pacific Basin power plants, plan for regional, 24:29031
production from mixtures of uranium carbide and uranium silicide, 22:45812(P)
production from uranium ore concentrates, quality assurance procedures for, 23:38918 (NLCO-1037)
production in Argentina, 22:33189(R) (NP-17470)
production in Japan, development of technology for, 25:23287
production in South Africa of, investigations of, 22:52228
production in South Africa, review of, 22:10903
production in U. K., effects of power reactor development program on, 23:13511
production in U. K., establishment of industry for, 24:18797
production method for microspheres of, 22:49827(P)
production method for microspheres of, 22:49801(P)
production of carbonaceous nuclear fuel dispersed in graphite, process for, 21:13253(P)
production of ceramic, by sol-gel process, 22:28887 (ORNL-4204, pp 22-39)
production of ceramic, carbothermic method for, 24:30021 (CONF-700502-, pp 423-33)
production of ceramic, developments in sol-gel process for, 24:22622 (ORNL-4366, pp 22-40)
production of ceramic, method for, 23:8286(P)
production of chromium—niobium—uranium-base, method for, 23:8147(P)
production of coated particles and pellets for high-temperature gas-cooled reactors, trial, 25:49525
production of coated spheres, economics of, 23:30123
production of coated, design of fluidized bed equipment for, 23:26410(P)
production of coated-particle, 23:43385(R) (ORNL-4429)
production of coated-particle, apparatus for, 21:26882(P)

production of dense oxide, method for, 22:19507(P)
production of dense, crack-free plutonium castings for, 22:10941(P)
production of Dragon, safety of facilities for, 24:48207 (DP-Report-371)
production of enriched uranium, economics of, 22:10505 (PG-Report-824)
production of enriched uranium-235, economic and legal analysis of European, 22:30209
production of enriched, economic aspects of, 23:19907 (ORO-668)
production of granular ceramic, methods for, 22:21758(P)
production of graphite matrix sphere-type, method for, 23:10255(P)
production of high-density impregnated beryllium oxide, incorporating carbide or oxide additives, 22:15247(P)
production of hollow spherical, method for, 21:43101(P)
production of hypostoichiometric actinide dioxide, methods for, 23:20542(P)
production of LMFBR, 25:54717 (ORNL-4682, pp 160-2)
production of mixed oxide, density and porosity control in, 25:32776(R) (WARD-4135-13)
production of niobium—uranium dioxide cermet, method for, 23:10250(P)
production of pellet-type, vacuum methods for, 25:8461
production of pelleted plutonia, research on, 21:19353(R) (EURAEC-1774)
production of plutonium, thorium, and uranium phosphide and sulfide, 21:26888(P)
production of porous particulate, method for, 23:3133(P)
production of power reactor, analysis of economics for, 22:48705
production of power reactor, analysis of radiochemical processing plants operation schedules for, 25:34376
production of pyrolytic carbon coated particle, for operation at high temperature, 23:37774(P)
production of pyrolytic carbon-coated metal oxide, fluidized bed method for, 23:39030(P)
production of shaped hypostoichiometric actinide dioxide, method for, 23:20541(P)
production of spherical particles of, from aqueous salt solutions, 21:22909
production of spherical particles of, method for, 24:1073(P)
production of spherical particulate graphite, method for, 23:8297(P)
production of stable hypostoichiometric oxide, 25:8921(P)
production of titanium nitride—uranium nitride, method for, 23:36194(P)
production of uranium, 22:30683
production of uranium nitride and uranium carbonitride, 21:13248(P)
production of uranium, review of Japanese developments in, 23:20487
production of uranium-233-enriched uranium tetrafluoride—lithium fluoride, 24:266 (ORNL-4422, pp 1-47)
production of, cost factors in, 24:53004
production of, description of U.K. Capenhurst facilities for, 22:48797
production of, economic aspects of, 23:28633
production of, economics of, 22:1823
production of, economics of, 22:30682
production of, effects of high-gain breeder reactor development on economic, 23:11172
production of, estimates of future, 21:14020
production of, facilities in Germany for, 22:30754
production of, lot controls in, 25:42835
production of, method for, 22:34105(P)
production of, problems in wet processes for, 21:40983
production of, review of 1964 Geneva Conference papers on, 24:22735
production of, review of chemistry in, 23:40835
production of, use of blending in reprocessing of uranium for, 22:30682
production problems of Japanese, 23:15772
production requirements and costs for 10,000 MW(e) heavy-water-moderated organic-cooled reactors, 23:13514
production requirements by 1990 of, analysis of breeder reactor, 22:35691
production requirements by 1990, effects of fast breeder reactor development on, 22:37464
properties and performance of uranium dioxide, 21:6872 (TID-7637)
properties and structure of liquid, review of, 23:45496
properties at high temperatures, equipment for in-glove box measurement of, 23:46121 (BNWL-1144, pp 5.1-40)
properties at reactor operating temperatures, methods of determining, 24:409
properties evaluation of, analysis of, 22:48791
properties for fast breeder, metallography of (U,Pu)C, 21:30997 (LA-DC-8675)
properties of beds of bonded coated particle type, (E), 24:33229(R) (GA-8725)
properties of beds of bonded coated particle type, (E), 24:38481(R) (GA-8600)
properties of carbide, 23:12396(R) (WARD-3791-27)
properties of carbide and nitride, for use in breeder reactors, 25:42956 (JAERI-13517)
properties of ceramic and metallic, review of, 23:9262
properties of ceramic plutonium, determination of high temperature, 22:27487(R) (LA-3880)
properties of ceramic, for liquid-metal-cooled fast breeders, 22:30123 (BNWL-SA-1550)
properties of coated particle type, (E), 24:45997(R) (GA-10202)
properties of coated particle, for high temperature gas cooled reactors, 25:18144
properties of coated particles, for use in HTGR-type reactors, 25:57052
properties of coated particulate, 22:15261(R) (BMI-1819)
properties of dispersion-type, using beryllium oxide as matrix, 21:13255 (GA-7069)
properties of irradiated, 22:27856(R) (K-1738)
properties of irradiated, differential thermal analysis characterization of thermochemical and thermophysical, 24:1056
properties of materials in, conference on, 23:34037
properties of mixed oxide fast, 25:18180(R) (WHAN-FR-50)
properties of molten, design of facility for determination of, 24:34971 (BNWL-1349-1, pp 2.1-39)
properties of nitride, 23:12396(R) (WARD-3791-27)
properties of plutonia and urania as, review of effects of dispersion on, 21:39674
properties of plutonium arsenide compounds for, 21:23589(R) (ANL-7308)
properties of sintered ceramic, relations with microstructure, 25:58389(R) (SRO-552-8)
properties of thorium and uranium monophosphide, 21:32972
properties of uranium and plutonium trichloride, 21:40589
properties of uranium carbide-type, determination of basic, 21:40564(R) (NAA-SR-12395)
properties of uranium dioxide, for water-cooled reactors, 23:10270 (ORNL-TM-2357)
properties of uranium silicide for CANDU-type reactors, 21:34073 (AECL-2874)
properties of uranium, effects of zirconium alloying on, 21:9181
properties of uranium—carbon—silicon compounds for, mechanical and thermal, 21:42843(P)
properties of vaporized fast, aerosol, 22:5950
properties of, handbook on, 21:23698
properties of, relations with microstructure and porosity, 25:4841(R) (SRO-552-5)
properties of, review, 22:19645
purification of irradiated, by zone melting, 23:15939
purification of plutonium nitrate—uranium feed for oxide fuel fabrication, method for chloride, 21:34316 (ISO-SA-39)
pyrochemical processes for fast oxide breeder, development of, 22:12006(R) (ANL-7399)
quality control and testing of Dragon, 25:26438 (DP-Report-432)
quality control of coated particle Dragon, using x-ray microscopy, 24:44753 (DP-Report-215)
radiation damage effects on high temperature gas-cooled, 21:35575(R) (GA-7010)
radiation damage to fast breeder, 22:14259 (LA-3768)
radiation effects at high burnup on thorium carbide—uranium carbide, fast neutron, 23:8354
radiation effects measurements on carbides, 22:24925(R) (ANL-7427)
radiation effects on alloy, review of in-pile, 23:45989
radiation effects on aqueous, liquid metal, and molten salt, 21:42743
radiation effects on beryllia—urania, 21:14910(R) (GA-7333)
radiation effects on beryllium oxide dispersion-type, beta, fission fragment, and neutron, 22:774
radiation effects on beryllium oxide-base, fast and thermal neutron, 22:19587
radiation effects on BISO and TRISO coated ceramic particle, fast neutron, 24:28985(R) (GA-8879)
radiation effects on BISO coated ceramic particle, fast neutron, 24:28986(R) (GA-9130)
radiation effects on bonded beds of coated particle, in-pile, 25:40132 (ORNL-TM-3361)
radiation effects on bubble diffusion in, mechanism of neutron, 23:48577
radiation effects on bubble formation and porosity of uranium nitride, 21:32951(R) (BMI-1798)
radiation effects on carbide and oxide, 21:34076(R) (ANL-7342)
radiation effects on carbide, test plans for, 23:48509(R) (WARD-3791-36)
radiation effects on carbon-coated, 21:1957 (GA-6493)
radiation effects on carbon-coated particulate thorium carbide—uranium carbide, fast neutron, 23:6761 (GA-7551)
radiation effects on carbon-coated particulate thorium dioxide—uranium dioxide, fast neutron, 23:6761 (GA-7551)
radiation effects on ceramic, 22:15263
radiation effects on ceramic and metallic, 21:30216
radiation effects on ceramic and metallic, review of, 24:2976
radiation effects on ceramic and metallic, review of, 23:9262
radiation effects on ceramic, fast neutron, 21:23589(R) (ANL-7308)
radiation effects on ceramic, review, 22:21650
radiation effects on ceramic, review of in-pile, 23:45989
radiation effects on clad cermet, in-pile, 25:2770 (ORNL-4570, pp 127-35)
radiation effects on clad mixed oxide pin-type, in-pile, 25:32776(R) (WARD-4135-13)
radiation effects on clad uranium carbide, in-reactor, 21:9250 (RFP-658, pp 38-42)
radiation effects on cladding-fuel-fission product reactions in ceramic, in-pile, 25:775 (BNWL-1349-2, pp 3.1-55)
radiation effects on coated ceramic particles, fast neutron, 24:28984(R) (GA-8420)
radiation effects on coated particle type, (E), 24:45997(R) (GA-10202)
radiation effects on coated particle type, fast neutron, (E), 25:18099(R) (GA-10313)
radiation effects on coated particle, fast neutron, 23:22690 (GAMD-9245)
radiation effects on coated particle, fast neutron, 25:25958(R) (GA-10444)
radiation effects on coated particle, fast neutron, 25:36978(R) (GA-10560)
radiation effects on coated particle, fast neutron, 22:11046 (ORNL-TM-2061)
radiation effects on coated particle, fast neutron, (E), 24:50115 (CONF-700401-, pp 598-609)
radiation effects on coated particle, for HTGCR, in-pile, 22:11046 (ORNL-TM-2061)
radiation effects on coated particle, tabulation of GAIL IV, 21:44830(R) (GA-7396)
radiation effects on coated particles of, use of stress calculations for studying fast neutron, 25:45150 (JUL-749-RW)
radiation effects on coated particles, P11 experiment on neutron, 21:6892 (GA-7286)
radiation effects on coated-particle, 21:30216
radiation effects on coated-particle, 21:20466
radiation effects on coated-particle carbide, 24:42279 (DP-Report-303)
radiation effects on coated-particle ceramic, fast neutron, 22:4915
radiation effects on coated-particle, at 9 to 16 percent burnup and 950 to 1700°C, 21:22935 (GA-7171)
radiation effects on coated-particle, capsules and facility for evaluation of fast-neutron, 21:20591 (CONF-660511-, pp 1.7.1-16)
radiation effects on coated-particle, neutron, 21:5014 (GA-6356)
radiation effects on composite dispersion-type, review of in-pile, 23:45989
radiation effects on creep and swelling of metal, (E/T), 25:51030(R) (NAA-SR-12492)
radiation effects on creep in fast reactor, 25:54110
radiation effects on creep of, relations of pressure with in-pile, 25:22208
radiation effects on density of ceramic, in-pile, 24:48874(R) (NP-18353)
radiation effects on dimensional changes in carbon coated, neutron, 22:11097
radiation effects on dispersed uranium carbide—silicon carbide, 21:8121 (TRG-Report-1213)
radiation effects on Dragon coated-particle, 25:55651
radiation effects on enriched uranium—graphite, in-pile, 24:40986(R) (DP-Report-144)
radiation effects on enriched, neutron, 21:7901(R) (WCAP-3269-17)
radiation effects on fast breeder, 21:35572 (EURFNR-312)
radiation effects on fast oxide, experiment design for, 23:39065 (BNWL-1058, pp 5.1-58)
radiation effects on fast reactor, fast neutron, 25:54108
radiation effects on fast, determination of neutron, 22:27487(R) (LA-3880)
radiation effects on fast, equipment and methods for examination of neutron, 22:6138(R) (LA-3820)
radiation effects on fast, review of, 22:16330
radiation effects on fission product and fissionable material distribution in mixed oxide, 25:49576 (ORNL-TM-3416, pp 3-51)
radiation effects on fission product and plutonium migration in mixed oxide, 25:18098(R) (BNWL-1522-1)
radiation effects on fission product distribution in mixed oxide, at high burnup, 24:10210
radiation effects on fission product retention and stability of compacted beryllium oxide—uranium dioxide, 23:3158 (GA-8559)
radiation effects on Fort St. Vrain Power Reactor Unit 1 TRISO-coated thorium carbide (ThC_2)—uranium carbide (UC_2), analysis of fast neutron, 23:4218 (GA-8467)
radiation effects on high energy rate pneumatically impacted uranium oxide—plutonium oxide, 21:33014
radiation effects on high-temperature, 22:7788(R) (ANL-7382)
radiation effects on HTGR, 24:41395(R) (ORNL-TM-3088)
radiation effects on isotope diffusion in coated-particle, models for calculation of, 25:13782 (JUL-685-PA)
radiation effects on LMFBR, in-pile, 24:44821 (ORNL-4560, pp 237-8)
radiation effects on mechanical and physical properties of, 21:46964(R) (BNWL-CC-821)
radiation effects on mechanical properties of solid, neutron, 23:10297 (KAPL-M-6919)
radiation effects on mechanical properties of, analysis of neutron, 23:11235(R) (BNWL-919)
radiation effects on melt cavities in uranium dioxide, relations with exposure time and radiation type, 23:51145 (KFK-980)
radiation effects on metallic, review, 22:21650
radiation effects on microstructure of calcium oxide—uranium oxide—zirconium oxide, in-pile, 23:41756
radiation effects on microstructure of ceramic, models for in-pile, 25:49573 (ORNL-TM-3300, pp 3-52)
radiation effects on microstructure of helium- and sodium-bonded plutonium nitride—uranium nitride, thermal-neutron, 21:32951(R) (BMI-1798)
radiation effects on mixed oxide fast, review of results of fast neutron, 23:31193(R) (BNWL-567)
radiation effects on molten fluoride, in-pile test facility for, 21:21761 (CONF-660511-, pp 3.5.1-4)
radiation effects on neutron properties of natural uranium, 21:27752
radiation effects on orientation and thermal expansion of pyrolytic carbon-coated, neutron, (E), 22:11096
radiation effects on oxide, coating failure in, 24:37002 (ORNL-4586, pp 87-97)
radiation effects on oxide-type, 22:33096 (KFK-700(Pt. VI))
radiation effects on oxide-type, 22:7788(R) (ANL-7382)
radiation effects on oxide-type, 22:53273(T) (EURFNR-472)
radiation effects on particulate carbon-coated thorium oxide—uranium oxide, fast neutron, 23:8341 (ORNL-TM-2278)
radiation effects on particulate pyrolytic-carbon-coated thorium oxide, fast neutron, 23:8341 (ORNL-TM-2278)
radiation effects on paste-type, fission gas, 21:10220

radiation effects on pellets of plutonium dioxide—uranium dioxide, in-pile, 22:49772(R) (NUMEC-3432-44)
radiation effects on performance of fast, at high temperature, (E/T), 25:44118(R) (BMI-1905)
radiation effects on physical properties of plutonium oxide—uranium oxide, in-pile, 23:48574 (ORNL-4420, pp 71-6)
radiation effects on physical properties of TRISO coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle type, analysis of fast neutron, 23:47169(R) (GA-9440)
radiation effects on plutonia—urania, in-pile, 21:33007(R) (NUMEC-3432-30)
radiation effects on plutonium and fission product migration in mixed oxide in-pile, (E), 25:6012
radiation effects on plutonium—uranium oxide, in-pile, 23:36278
radiation effects on plutonium—uranium-base, in-pile, 23:10240
radiation effects on plutonium-containing, review on, 22:8804
radiation effects on properties of coated-particle, in-pile, 22:23853 (CONF-660524-, pp 273-92)
radiation effects on pyrocarbon coatings for particulate, relations of fabrication methods with in-pile, 24:14978
radiation effects on pyrolitic carbon-coated uranium carbide or uranium—thorium carbide, 21:18354 (ORNL-TM-1653)
radiation effects on pyrolytic-carbon-coated, STRETCH program for, 22:23846 (ORNL-TM-2127)
radiation effects on sintered mixed carbide, 21:33012
radiation effects on sodium-bonded plutonium—uranium carbide, in-pile, 23:36285
radiation effects on solid uranium-based, bibliography on, 21:11261 (NP-16522)
radiation effects on stability of bonded bed coated particle, fast neutron, 24:24835 (ORNL-4508, pp 3-70)
radiation effects on stability of bonded beds of coated particles, 24:4060 (ORNL-4424, pp 3-72)
radiation effects on stainless steel—urania, in-pile, 21:39703
radiation effects on stainless steel—urania, in-pile, 21:35701(R) (BNL-50023)
radiation effects on structure of oxide, computer analysis of in-pile, 24:3050
radiation effects on swelling in uranium silicide (U_3Si) and uranium alloys, evaluation of neutron, 23:11353 (BNWL-919, pp 9.1-13)
radiation effects on swelling of refractory, in-pile, 24:25761(R) (BMI-1823)
radiation effects on swelling of uranium silicide, 21:38508
radiation effects on temperature distribution in, as a function of oxygen migration, 22:11088 (BNWL-536)
radiation effects on thermal conductivity of ceramic, at high burnups, 22:41129 (CEND-2936-335, VI.1-7)
radiation effects on thorium—uranium carbide particulate, 21:12150 (ORNL-4053)
radiation effects on uncoated particles of uranium carbide, 21:18354 (ORNL-TM-1653)
radiation effects on unencapsulated mixed oxide pin-type, in-pile, 25:32776(R) (WARD-4135-13)
radiation effects on uranium oxide (UO_2), in AGR-type plants, 25:54090 (A/CONF.49/P-501)
radiation effects on uranium—plutonium alloys, 21:23589(R) (ANL-7308)
radiation effects on vanadium-clad oxide or carbide, corrosion problems from, 25:49567 (EURFNR-934)
radiation effects on vitroceramic, at high and low burn-up, effects of silicon dioxide on, 23:48580
radiation effects on Zircaloy-clad oxide, at high burnups, 25:6827(R) (RISO-225)
radiation effects on, 1967 summary of French research on, 23:4171 (NP-17597, pp 41-73)
radiation effects on, CNEN summary on methods for studying, 25:58351 (RT/ING-(70)30)
radiation effects on, description of optical examination methods for neutron, 22:27497
radiation effects on, experience in post-irradiation examination of, 24:42285 (NP-10335)
radiation effects on, fission-gas release studies on, 24:37002 (ORNL-4586, pp 87-97)
radiation effects on, in BWR systems, 21:38519
radiation effects on, in-pile, 21:40707
radiation effects on, review, 22:12954
radiation effects on, review of, 23:20464
radiation effects on, review of, 24:44770
radiation effects on, review of methods for determination of, 23:13962 (BNWL-SA-2274)
radiation effects testing of, 21:31903(R) (BNWL-CC-500)
radiation effects testing of coated particle, 25:36977(R) (GA-10501)
radiation effects testing of coated particle, 25:48257(R) (GA-10661)
radiation effects testing of coated particle, 25:28633(R) (GA-10399)
radiation effects testing of coated particle, 25:8050(R) (GA-10288)
radiation effects testing of coated particle gas cooled, 25:6003
radiation effects testing of coated particle gas cooled, 25:6004
radiation effects testing of coated particle gas cooled, 25:6008
radiation effects testing of HTGR, 24:9437(R) (ORNL-TM-2846)
radiation effects testing of HTGR, 24:9436(R) (ORNL-TM-2792)
radiation effects testing of pyrolytic carbon coated microsphere, high temperature fast neutron, 22:46911(R) (ORNL-4266)
radiation effects testing of sol-gel plutonium dioxide—uranium dioxide, 23:24978(R) (BAW-3714-9)
radiation effects testing of thorium oxide (ThO_2)—uranium oxide (UO_2) coated particle, 25:48260(R) (ORNL-4637)
radiation effects testing of uranium oxide (UO_2), plutonium oxide (PuO_2), and plutonium oxide—uranium oxide (UO_2), for fast reactors, 23:52351(T) (JPRS-48331, pp 481-94)
radiation effects testing of, design of in-core TRIGA furnace for high temperature, 25:39319
radiation effects testing of, post-irradiation analysis procedures for, 25:48351 (RT/MET-(70)6)
radiation performance of dense clad plutonium dioxide—uranium dioxide, at 87,000 to 115,000 MWd/t, 23:10300
radiation shielding requirements of spent LMFBR, 24:267 (ORNL-4422, pp 48-106)
radiation testing in flowing sodium, capsule design and operation for, 24:47913
radiation testing in Halden HBWR, 21:4378 (NP-16344)
radiation testing in Halden reactor, 23:43125(R) (HPR-109)
radiation testing in thermal test reactors, simulation of fast reactor spectra for, 25:1926 (N-70-27514)
radiation testing of ceramic, 24:43751 (BNWL-1435)
radiation testing of ceramic and cermet, in EBR-II, 21:12231(R) (ANL-7267)
radiation testing of ceramic, in MTR, 22:22653(R) (ANL-7419)
radiation testing of coated particle, 24:18585(R) (GA-9815)
radiation testing of coated particle, 24:43697(R) (GA-10088)
radiation testing of coated particle, 24:18674(R) (NP-18148)
radiation testing of coated particle, 21:44830(R) (GA-7396)
radiation testing of coated particle ceramic, 24:28987(R) (GA-9944)
radiation testing of coated particle, for high temperature gas cooled reactors, 25:20747(R) (NP-18668)
radiation testing of coated-particle, (E/T), 21:8146
radiation testing of coated-particle, development of capsules for, 22:42375
radiation testing of defected mixed oxide, power generation and heat transfer calculations for, 24:16317(R) (BNWL-1289)
radiation testing of encapsulated, maintenance of uniform specimen temperature using heat pipes, 24:17327 (CONF-690910-, pp 157-64)
radiation testing of FFTF, 21:46938(R) (BNWL-501)
radiation testing of mixed oxide fast, 25:18180(R) (WHAN-FR-50)
radiation testing of molten-salt breeder reactor, 23:21484 (ORNL-4344, pp 200-10)
radiation testing of plutonia—urania, 21:7977
radiation testing of plutonium carbide—uranium carbide powders, 21:8151
radiation testing of plutonium-uranium alloys, 21:12231(R) (ANL-7267)
radiation testing of pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2), 24:43692(R) (DP-Report-368)
radiation testing of pyrolytic carbon coated thorium carbide (ThC_2)—uranium carbide (UC_2), 24:43695(R) (DP-Report-397)
radiation testing of pyrolytic-carbon-coated, in-pile, 22:26093 (ORNL-4229, pp 125-41)
radiation testing of Settled Bed Fast, design of in-pile capsule for, 21:31900 (BNL-998)
radiation testing of silicon carbide-coated, in-pile, 22:26093 (ORNL-4229, pp 125-41)
radiation testing of sodium-cooled, design of capsule for, 23:40924
radiation testing of stainless steel—plutonium dioxide cermets, 21:8149
radiation testing of thoria—urania, in beryllium oxide matrix, 21:13969(R) (GA-6245)
radiation testing of thorium, hydraulic and thermal calculations on MTR samples, 21:35717 (IN-1102)
radiation testing of thorium, MTR program for, 21:35718 (IN-1104)
radiation testing of water—plutonium lattices of, description of, 21:44937(R) (GEAP-5513)
radiation testing of zirconium-clad thorium—uranium-233, 21:31938 (IN-1101)
radiation testing of, capsule design for fast neutron, 24:2340 (N-69-33273)
radiation testing of, design of capsules for high-temperature, 22:42491
radiation testing of, design of industrial devices for, 23:50011
radiation testing of, in Japan, 21:23750
radiation testing of, methods and equipment for, 24:18699 (CONF-690910)
radiation testing programs for fast, 24:41014 (TRG-Report-1911, pp 101-15)
radioactivity of reprocessed breeder, calculation of, 22:23247(T) (EURFNR-385)
radioaerosol formation over molten-salt, 23:45182 (ORNL-4396, pp 129-209)
radiographic inspection of, using Triga reactor as neutron source, 24:5833
radiography of irradiated, method for auto-, 24:5831
radiography of, equipment and method for epicadmium, 23:38214
radioinduced bubbles in, effects on fuel stability, 22:17151
radioinduced configuration changes in spherical, device for determining, 21:2895 (JUL-357-RG)
radioinduced fission gas release and swelling of ceramic, at high burnups, 22:41129 (CEND-2936-335, VI.1-7)
radioinduced gas bubble formation in ceramic, 22:31529
radioinduced heating in fast, best-equations solution for effects of fission products on, (T), 23:13443
radioinduced helium bubbles in, effects of neutron, 23:22612
radioinduced isotopes in, at 400 MWd/t and 1200 MWd/t, 21:7874(R) (GEAP-3898)
radioinduced second phases in ceramic, electron probe examination of, 25:22207
radioinduced swelling at high temperatures, mathematical model of in-pile, 23:25020(R) (BMI-1859)
radioinduced swelling in high burnup plutonium—uranium alloys, 21:8152
radioinduced swelling in oxide-type, mechanisms of neutron, 24:34972 (BNWL-1349-1, pp 3.1-69)
radioinduced swelling in, mechanical model for, 25:6889 (BMI-1886, Sect. B)
radioinduced swelling of actinide carbide, effects of gaseous and solid fission products on in-pile, 24:10196(T) (WAPD-Trans-125)
radioinduced swelling of actinide oxide, formulas for calculation of, 24:10195(T) (WAPD-Trans-124)
radioinduced swelling of ceramic and metallic, mechanisms of, 21:12265
radioinduced swelling of coated spheres of, microradiographic measurement of, 22:19571 (AERE-M-1977)
radioinduced swelling of metallic, controlled-pressure and controlled-temperature capsules for investigation of, 21:20535 (CONF-660511-, pp 3.4.1-19)
radioinduced swelling of metallic, mechanisms of neutron, 24:14854
radioinduced swelling of uranium carbide, effects of tungsten doping on in-pile, 23:22578 (AI-AEC-12744, pp 123-8)
radioinduced swelling of, computer analysis of mechanisms in, 24:29983(R) (ORO-3912-2)
radioinduced swelling of, mathematical model for in-pile, 24:1062(R) (BMI-1870)
radioinduced swelling of, mechanisms of, 21:31903(R) (BNWL-CC-500)
radioinduced swelling of, models of in-pile, 23:22580(T) (ANL-Trans-736)
radioisotope content of, calorimetric measurements of americium-241, plutonium-238, plutonium-239, plutonium-240, plutonium-241, and plutonium-242, 25:21300
raw material procurement and fabrication of, 1966 JCAE hearings on, 22:12217
raw materials procurement for, 1964 JCAE hearings on, 22:12218
reaction of plutonium and uranium ceramic, at high temperatures, 22:36550
reaction of steam and pyrolytic carbon coated, rates of, 22:27416(R) (ORNL-4228)
reaction rates for steam and, effects of temperature on, 22:27416(R) (ORNL-4228)
reactions in coolant loss accidents, review on, 24:44770
reactions of bonded coated-particle, with steam, 22:26070 (ORNL-4229, pp 119-24)
reactions of liquid, with sodium coolant at 700 and 825°C, 21:32859 (LA-3545)
reactions of mixed oxide fast, with cladding alloys, (E/T), 25:44123 (ORNL-TM-3385)
reactions of mixed oxide, with sodium, effects of available oxygen on, 25:32802
reactions of molten-salt, with graphite, 23:19693 (ORNL-4344, pp 109-99)
reactions of pellet of, with sodium, thermodynamics of, 25:35547(R) (GEAP-12182)
reactions of pyrolytic-carbon-coated particles of, with water vapor, 22:26070 (ORNL-4229, pp 119-24)
reactions of, with fission fragments, factors affecting, 21:14234(R) (AGN-8183)
reactions with cladding, effects of burnup on oxide, 25:41423
reactions with sodium coolant, kinetic energy release from, (T), 25:46282
reactions with water, 21:30216
reactions with water, mechanisms of, 21:40707
reactivity calculations for plutonium—uranium oxide, in water reactors, 21:5603 (BNWL-305)
reactivity kinetics of plutonia-urania, in fast critical assemblies, comparison with Russian data, 21:14068 (BNWL-347)
reactivity of plutonia—urania, effects of grain size on, 21:34154 (BNWL-427)
reactivity of uranium and uranium oxide lattices, semi-empirical solution of microparameters for, 21:44869
reactivity temperature coefficients for fresh and irradiated natural uranium, comparison of computer code calculations of, 25:48345 (RT/FI-(71)7)
reactivity worth measurements in cavity reactor, 22:3881(R) (NASA-CR-72234(Vol.1))
reactivity worths of large samples of, comparison of calculated and measured, 25:18182 (WHAN-SA-12)
recovery and recycling of uranium-233, 21:25679(P)
recovery and reprocessing of, 22:14312
recovery of enriched uranium from, process for, 22:21167
recovery of plutonium and uranium from, pyrochemical process for, 22:21168
recovery of spent, economic aspects of, 23:45497
recycle development program for HTGR-type, analysis of economics and technology of, 23:2034 (ORNL-TM-2377)
recycle facility for HTGR-type, description of Thorium-Uranium Recycle Facility, 23:2034 (ORNL-TM-2377)
recycle in thermal reactors of plutonium-enriched, physics aspects of, 23:17247 (BNWL-SA-2192)
recycle in thermal reactors, technical and economic evaluation of plutonium, 24:47725
recycle of ceramic and cermet, capability of PCUT plant for, 22:49799
recycle of high temperature gas cooled, development program for, 25:48260(R) (ORNL-4637)
recycle program for high temperature gas cooled reactors, development in U.S. of, 25:48261 (ORNL-4702)
recycle program for, description of optimum, 22:32896
recycle schedule for HTGR-type reactor, analysis of optimum economic, 23:15600(R) (GA-8860)

recycle scheme for molten-salt breeder reactor, development of, 23:4227
recycle studies on high temperature gas-cooled, 21:35575(R) (GA-7010)
recycling of uranium, economics of blending and diffusion in, (T), 24:43782
recycling of uranium-233-containing, in unshielded pilot plant, 22:23190 (CONF-660524-, pp 299-319)
recycling of vipac plutonium dioxide—uranium dioxide, in boiling reactors, 23:18259(R) (PNCT-AR-67)
recycling of, sol-gel technology in, 24:22736
refining and conversion of light water power, projected costs for uranium, 22:44841 (WASH-1082)
regulation in Japan, law for, 25:23235
relocation of molten mixed oxide, during severe transients, 23:43116(R) (GEAP-10028)
relocation of molten mixed oxide, during severe transients, 24:4058(R) (GEAP-10028-31)
relocation of molten mixed oxide, during transients, 23:37507(R) (GEAP-5700)
relocation of molten mixed oxide, during transients, 23:37506(R) (GEAP-5677)
relocation of molten mixed oxide, during transients, 23:43115(R) (GEAP-5753)
removal of rare earth fission products from, pyrochemical process for, 22:21168
reprocessing and refabrication of, operation of EBR-II Fuel Cycle Facility for remote, 24:9565
reprocessing and reuse of, economics of, 24:9465
reprocessing at CNEN, method for, 23:51010
reprocessing at French plants, economic and technical aspects of, 25:6416
reprocessing at ISPRA, 1961 to 1967, 23:19744 (EUR-3940-2)
reprocessing at Midwest Fuel Recovery Plant, methods for controlling environmental contamination from, 25:34844 (CONF-700440-1)
reprocessing at West Valley Plant, 23:33247 (DOCKET-50201-14)
reprocessing by aqueous methods, 23:24285
reprocessing by chlorination and fractional distillation or electrolysis, 23:38089(P)
reprocessing by chlorination, apparatus for, 23:35300(P)
reprocessing by chlorination—volatilization process, 25:6415
reprocessing by fluoride volatility method, 23:38082
reprocessing by fluoride volatility method, analysis of gases released during, 24:18888
reprocessing by fluoride volatility methods, 24:22744
reprocessing by fluoride volatility methods, removal of plutonium hexafluoride from ventilation air in, 24:27180 (ANL-7612)
reprocessing by fluoride volatility process, 24:39030(P)
reprocessing by Fluoride Volatility Process, 1968 Belgian activities on, 24:9079(R) (NP-18052)
reprocessing by fluoride volatility process, analysis of products during, 23:26149
reprocessing by fluoride volatility process, conference on, 23:19817 (CONF-680610)
reprocessing by fluoride volatility process, fluorine disposal in, 22:48901 (RFP-1200)
reprocessing by fluoride volatility techniques, 22:40175 (KR-126, pp 342-60)
reprocessing by fluoride volatilization, safety of hot laboratories for studies of, 24:31545
reprocessing by molten salt method, separation of uranium from refractory and noble metals in, 23:35307(P)
reprocessing by Purex Process, effects of TBP radiolysis on plutonium retention in, 24:262(T) (EURFNR-663)
reprocessing by Purex process, production and utilization of plutonium obtained by, 25:51588
reprocessing by pyrochemical techniques, contactor design for, 23:37959
reprocessing by pyrochemical techniques, corrosion problems in, 23:38932
reprocessing by solvent extraction using tributyl phosphate solutions, separation of fissile materials in, 23:35302(P)
reprocessing by solvent extraction, design of high-speed mixing separator for, 25:240(P)
reprocessing by solvent extraction, separation of metal compounds from organic extracts by chromatography in, 23:35301(P)
reprocessing by TBP process, 24:267 (ORNL-4422, pp 48-106)
reprocessing capacities for power reactor, computer program projected to 1990, 2000, and 2010, 23:4258
reprocessing costs for spent, effects of cooling time on, 24:9463
reprocessing costs for, international conference on, 22:16169
reprocessing cycle for, operation of ANL, 22:7788(R) (ANL-7382)
reprocessing developments for, 21:31903(R) (BNWL-CC-500)
reprocessing facility for, design and layout of, 21:22071
reprocessing fast breeder and molten-salt breeder, developments in pyrochemical methods for, 23:17543
reprocessing fast, head-end mechanical processes for, 23:353 (ORNL-4272, pp 34-55)
reprocessing HTGR, grind-leach and head-end mechanical methods for, 23:354 (ORNL-4272, pp 56-67)
reprocessing in Europe, 23:393
reprocessing in Europe, development program requirements for optimum economic, 24:18665
reprocessing in Europe, economic and legal aspects of, 25:10673
reprocessing in Europe, economics and methods of, 25:18500 (NP-18669)
reprocessing in Germany, fissionable materials control during, 24:44234
reprocessing in Japan by TBP extraction and ion exchange for plutonium recovery, 24:33770
reprocessing in Japan by TBP extraction and ion exchange for plutonium recovery, 24:33773
reprocessing in Japan of, review of, 23:31151
reprocessing in Japan, research on, 24:10145(R) (PNCT-AR-68)
reprocessing in Spain, development of, 22:33536
reprocessing in TURF hot cells, design and operation of remote handling equipment for, 25:4303
reprocessing in Turkey, economic aspects of, 24:28863
reprocessing irradiated, Eurochemic experience in, 25:4148
reprocessing irradiated, solvent extraction method for, 23:19850(P)
reprocessing LWR, shear-leach method for, 23:354 (ORNL-4272, pp 56-67)
reprocessing methods for fast, 25:41365(R) (ANL-7825)
reprocessing methods for fast, 25:48234(R) (ANL-7833)
reprocessing methods for fast, 25:51026(R) (ANL-7845)
reprocessing methods for fast, 25:60005(R) (ANL-7854)
reprocessing methods for high temperature gas cooled power reactor, analysis of optimum economic, 24:4026(R) (GA-9660)
reprocessing methods for high temperature gas cooled power reactor, analysis of optimum economic, 23:45052(R) (GA-9090)
reprocessing methods for HTGR type, 23:45053(R) (GA-9372)
reprocessing methods for HTGR type, (E/T), 23:43083(R) (GA-9227)
reprocessing of alloy, liquid-liquid extraction of fission products in, 24:11683(P)
reprocessing of alloys containing enriched uranium, 22:47221
reprocessing of aluminum and zirconium, economic aspects of combining dissolver products in, 25:44414 (IN-1472)
reprocessing of aluminum or zirconium, flowsheets for, 25:34690(R) (IN-1457)
reprocessing of aluminum—iron—silicon—uranium, recovery of actinides in, 24:20846 (CEA-R-3744)
reprocessing of aluminum—uranium, 23:47599
reprocessing of aluminum—uranium, by one TBP and three 4-methyl-2-pentanone cycles, 23:35257 (IN-1153)
reprocessing of aluminum—uranium, effects of silicon on, 23:9508 (IN-1194)
reprocessing of aluminum-clad, molten-salt fluoride-volatility process for, 25:34693 (ORNL-4574)
reprocessing of aluminum-containing, molten salt process for, 23:38088(P)
reprocessing of Atomics International LMFBR, tables of RIBDOR program fission product data for, 23:9159 (ORNL-TM-2393)
reprocessing of BISO and TRISO, 25:4136 (GAMD-9260(Pt.2))
reprocessing of BISO-coated fissile and fertile, head-end, 25:41907
reprocessing of breeder, by chloride volatility methods, 25:10434 (ORNL-4636, pp 7-13)
reprocessing of breeder, comparison of economics of aqueous and nonaqueous methods for, 25:199 (CEA-R-4075)
reprocessing of carbide and oxide, by anion exchange and solvent extraction, 24:26922 (JUL-633-CA)
reprocessing of carbide or oxide, by chloride volatility techniques, 23:38042
reprocessing of carbide or oxide, by fused salt fluoride volatility techniques, 23:38055
reprocessing of carbide, burn-leach techniques for, 24:4346 (CEA-R-3754)
reprocessing of carbide, grind-leach head-end methods in, 24:38993 (DP-Report-293)
reprocessing of carbon-coated oxide, 23:49895(R) (ORNL-4235)
reprocessing of carbon-coated particles of oxide, grind-burn-leach head-end methods for, 25:51583 (JUL-741-RW)
reprocessing of ceramic, by dissolution in oxidizing sodium hydroxide melts, 23:35318(P)
reprocessing of ceramic, by flucrination by gaseous chlorine trifluoride, 23:38077
reprocessing of ceramic, by volatilization using chlorine trifluoride or fluorine as fluorinating agents, 23:38078
reprocessing of ceramic, for fast breeder reactors by salt transport, 22:40184 (KR-126, pp 476-93)
reprocessing of ceramic, pyrochemical, 23:31401 (EUR-4242)
reprocessing of cermet, pyrometallurgical methods for, 25:226
reprocessing of coated particle, fluid bed oxidation procedures in, (E), 25:28633(R) (GA-10399)
reprocessing of coated particle, fluid bed oxidation procedures in, (E), 25:36977(R) (GA-10501)
reprocessing of coated particle, fluid bed oxidation procedures in, (E), 25:48257(R) (GA-10661)
reprocessing of coated particle, fluid bed oxidation procedures in, (E), 25:8050(R) (GA-10288)
reprocessing of coated uranium—thorium carbide, for 10,000-MW(t) HTGR, 22:23092 (CONF-660524-, pp 617-45)
reprocessing of coated-particle, in oxidizing alkali salt melts, 22:33515
reprocessing of coated-particle, reactions of cesium with graphite matrix in, 22:33514
reprocessing of Dounreay, methods for decontamination and rehabilitation of facilities for, 24:31656
reprocessing of Dragon, economics of plant for, 25:212 (DP-Report-424)
reprocessing of Dragon, evaluation of crush-burn-leach method of, 24:19052(R) (ORNL-TM-2886)
reprocessing of EBR-II, development of electrolytic dissolution methods for use in, 24:31440 (IN-1285)
reprocessing of EBR-II, skull reclamation techniques in, 23:38056
reprocessing of EBR-II, use of hydrocyclone for clarification of electrolytic dissolver solutions from, 23:28949 (IN-1276)
reprocessing of Elk River, ITREC plant for, 24:4004
reprocessing of enriched uranium alloy, by fluoride volatility methods in Attila, 24:29359 (CEA-CONF-1537)
reprocessing of enriched uranium alloy, by fluoride volatility process, 23:49883 (CEA-CONF-1360)
reprocessing of European fast reactor, economics of, 22:35499
reprocessing of fast and MTR, decontamination factors for, 25:51560 (A/CONF.49/P-492)
reprocessing of fast breeder, 23:49895(R) (ORNL-4235)
reprocessing of fast breeder and molten-salt breeder, pyrochemical methods for, 22:51063
reprocessing of fast breeder, aqueous methods for, 22:40178 (KR-126, pp 394-404)
reprocessing of fast breeder, aqueous methods for, 23:17512(T) (EURFNR-581)
reprocessing of fast breeder, by fluoride volatility techniques, 23:38048
reprocessing of fast breeder, by fluoride volatility methods, 24:50439(R) (ANL-7675)
reprocessing of fast breeder, by fluoride volatility techniques, 23:38052
reprocessing of fast breeder, by Purex Process, separation of plutonium and uranium in, 25:57518(T) (EURFNR-888)
reprocessing of fast breeder, by salt transport techniques, 23:38057
reprocessing of fast breeder, evaluation of problems in, 25:10672
reprocessing of fast breeder, extraction and separation of plutonium and uranium in Purex Process for, 25:26326 (KFK-911)
reprocessing of fast breeder, fluoride volatility process for, 22:40181 (KR-126, pp 425-51)
reprocessing of fast breeder, pyrochemical, 24:44060 (ANL-7650, pp 1-14)
reprocessing of fast breeder, using fluoride volatility methods, 24:5727
reprocessing of fast, design of pyrochemical facility for, 25:15817
reprocessing of fast, development of aqueous processes for, 24:267 (ORNL-4422, pp 48-106)
reprocessing of fast, development of fluoride volatility processes for, 25:39227 (NP-18809, pp 1.1-33)
reprocessing of fast, evaluation of West Valley Plant for feasibility of, 25:46541 (ORNL-TM-2906)
reprocessing of fast, iodine-131 removal from off-gases from, (E), 25:21269 (CONF-700816-(Vol.2), pp 551-67)
reprocessing of fused salt, development of close coupled system for, 25:18138 (ORNL-TM-3137)
reprocessing of fused salt, electric conductivity of melts for, 23:28860
reprocessing of German, description of prototype Purex plant for, 22:51151
reprocessing of graphite, combustion-dissolution methods for, 23:13824(R) (IN-1201)
reprocessing of graphite, fluidized-bed combustion methods in, 24:9429(R) (IN-1314)
reprocessing of graphite, head-end combustion in fluidized bed for, 25:46554
reprocessing of graphite, pilot plant studies of head-end, 25:34690(R) (IN-1457)
reprocessing of graphite-base HTGR, hot-cell evaluation of burn-leach method for, 24:13997 (ORNL-4120)
reprocessing of graphite-based HTGR, facility design for modified Acid—Thorex, 25:222 (WASH-1152)
reprocessing of graphite-based, chlorination method for, 23:35297(P)
reprocessing of graphite-coated or graphite-containing, alkali metal process for, 24:11677(P)
reprocessing of graphite-coated, method for disintegration of graphite bodies in oxidizing medium in, 24:4356(P)
reprocessing of graphite-matrix, fluidized-bed combustion process for, 25:8322 (IN-1423)
reprocessing of high temperature gas cooled power, development of optimum economic, 23:37513
reprocessing of high-burnup highly enriched, technological and economic aspects of fluoride volatility methods for, 23:49887 (CEA-CONF-1379)
reprocessing of high-burnup, centrifugal extractor for, 24:38997(T) (RISLEY-Trans-1895)
reprocessing of high-burnup, evaluation of centrifugal extractor for use in, 24:16624 (KFK-862)
reprocessing of high-burnup, fluoride volatility methods for, 24:22764
reprocessing of high-burnup, hydrocyclone contactor for, 23:49892 (INR-1068)
reprocessing of high-burnup, recovery of americium and curium from, 24:9480
reprocessing of high-burnup, use of Acid Interim-23 process for, 25:39573
reprocessing of high-plutonium-content, development of fluoride volatility process for, 24:31437 (ANL-7473)
reprocessing of high-plutonium-content, extraction method for, 22:51082
reprocessing of highly enriched uranium—zirconium, aqueous methods for, 24:22739
reprocessing of highly irradiated aluminum—plutonium alloy, solvent extraction cycles for, 24:14030
reprocessing of highly irradiated aluminum—plutonium target, by solvent extraction using tridodecylamine, 23:49885 (CEA-CONF-1362)
reprocessing of highly irradiated oxide, development of centrifugal extractor for, 23:49882 (CEA-CONF-1359)
reprocessing of highly irradiated, evaluation of extraction methods for, 23:45363(T) (ANL-Trans-770)
reprocessing of highly irradiated, in France, 23:49886 (CEA-CONF-1363)
reprocessing of HTGR, 24:33760(R) (ORNL-TM-3015)
reprocessing of HTGR, 25:2320(R) (ORNL-TM-3204)
reprocessing of HTGR thorium dioxide—uranium dioxide, head-end processes in, 24:9436(R) (ORNL-TM-2792)
reprocessing of HTGR, conceptual methods for, 23:34896(R) (GA-8356)

reprocessing of HTGR, development of head-end, 24:19052(R) (ORNL-TM-2886)
reprocessing of HTGR, evaluation of head-end processes in, 24:9437(R) (ORNL-TM-2846)
reprocessing of HTGR, grind-burn-leach processes in, 25:4136 (GAMD-9260(Pt.2))
reprocessing of HTGR, head-end burn-leach methods for, 24:268 (ORNL-4422, pp 107-19)
reprocessing of HTGR, review of progress on, 24:31445(R) (ORNL-TM-3004)
reprocessing of HTGR, studies on separation of uranium-233 from uranium-235 in BISO-coated fertile and fissile particles in, 24:46304 (GA-9888)
reprocessing of HTGR, studies on separation of uranium-233 from uranium-235 in TRISO-coated fertile and fissile particles in, 24:46303 (GA-9258)
reprocessing of HTGR-type reactor pyrolytic carbon- and zirconium carbide (ZrC)-coated thorium oxide (ThO_2) and throrium oxide (ThO_2)—uranium oxide (UO_2), economics of, 23:4165(R) (GA-7553)
reprocessing of irradiated ceramic, 23:4726(P)
reprocessing of irradiated ceramic, dissolution and fluorination process for, 25:29192(P)
reprocessing of irradiated coated-particle, leaching in, 23:31402 (JUL-568-RB)
reprocessing of irradiated metallic, by melt refining, 23:38063
reprocessing of irradiated monocarbide, dissolution process for, 25:241(P)
reprocessing of irradiated oxide or carbide containing pyrolytic carbon coated particles, nonaqueous inorganic melt process for, 23:4731(P)
reprocessing of irradiated plutonium and uranium, review on developments in French research on, 23:45374
reprocessing of irradiated thorium- and uranium-containing, by fractional condensation of chlorides and solvent extraction, 25:29189(P)
reprocessing of irradiated thorium—uranium, separation of fission products by solvent extraction using N-methyldidecylamine, 25:51566 (A/CONF.49/P-650)
reprocessing of irradiated, at La Hague and Fontenay-aux-Roses, economics of, 25:51563 (A/CONF.49/P-603)
reprocessing of irradiated, by dissolution in oxidizing alkaline earth melts, 22:35916(P)
reprocessing of irradiated, by Purex process, on-line instrumentation for control of, 25:247
reprocessing of irradiated, chemical principles of aqueous and high-temperature methods for, 24:31460
reprocessing of irradiated, conference on recent advances in, 24:9449
reprocessing of irradiated, containing thorium or uranium oxide or carbide coated with pyrolytic graphite, 24:20872(P)
reprocessing of irradiated, containing uranium oxide, plutonium, and fission products, fluoride volatility method for, 23:4733(P)
reprocessing of irradiated, description of fluidized alumina bed for, 22:25454 (CEA-N-616, pp 246-94)
reprocessing of irradiated, extraction behavior of neptunium during Purex Process for, 23:38026 (KFK-797)
reprocessing of irradiated, for recovery of molybdenum by tridodecylamine extraction of phosphomolybdic complex, 23:35294(P)
reprocessing of irradiated, in Japan, developments in, 25:51551 (A/CONF.49/P-239)
reprocessing of irradiated, multistage extraction process using tributyl phosphate for, 25:41902(P)
reprocessing of irradiated, problems in design and construction of facilities for, 24:31574
reprocessing of irradiated, review on, 23:4723
reprocessing of irradiated, separation of actinides from halide melts as cyclopentadienyl compounds in, 24:5734(P)
reprocessing of irradiated, separation of niobium-95—zirconium-95 and ruthenium-106 by solvent extraction in, 24:33775
reprocessing of irradiated, solvent extraction method for separation of fission products in, 23:35293(P)
reprocessing of irradiated, to recover uranium, plutonium, neptunium, and other fission products, 22:35908(P)
reprocessing of irradiated, using organic solvent in presence of aqueous salting agent, 22:4268(P)
reprocessing of Japanese, safety aspects of waste management facilities for, 24:31650
reprocessing of light water reactor, by fluoride volatility techniques, 23:38051
reprocessing of light-water, commercial, 25:15745
reprocessing of liquid metal cooled fast breeder reactor, development of equipment and procedures for, 25:46276(R) (ORNL-TM-3456)
reprocessing of LMFBR, 25:2317 (ORNL-4572, pp 170-3)
reprocessing of LMFBR, applications of Purex aqueous process to, 23:38060
reprocessing of LMFBR, aqueous methods for, 25:2314 (ORNL-4572, pp 37-84)
reprocessing of LMFBR, by fluoride volatility methods, 24:44060 (ANL-7650, pp 1-14)
reprocessing of LMFBR, design study of fluoride volatility plant for, 24:5703 (ANL-7583)
reprocessing of LMFBR, development of Purex-type methods for, 25:37452 (A/CONF.49/P-64)
reprocessing of LMFBR, evaluation of aqueous methods for, 24:31444 (ORNL-4436)
reprocessing of LMFBR, integrated lanthanide—actinide solvent extraction process using dibutyl butylphosphonate in, 25:54706 (BNWL-SA-3345)
reprocessing of LMFBR, reactions of iodine with free radicals and alkenes in, 24:11583 (ORNL-TM-2772)
reprocessing of LMFBR, solvent extraction processes for, 25:8316 (BNWL-CC-1939)
reprocessing of LMFBR, solvent stability in, 25:6400 (ORNL-4618)
reprocessing of molten fluoride, 23:38059
reprocessing of molten fluoride, 23:38043
reprocessing of molten fluoride, by liquid—liquid extraction, 24:4361(P)
reprocessing of molten fluoride, by reductive extraction, 25:51585 (ORNL-TM-3139)
reprocessing of molten fluoride, using bismuth—tin solutions, 24:19062(P)
reprocessing of molten salt, 24:16625 (ORNL-4449, pp 214-47)
reprocessing of molten salt, 24:22731 (ORNL-4366, pp 41-98)
reprocessing of molten salt, 25:34694 (ORNL-TM-3138)
reprocessing of molten salt, 22:23107
reprocessing of molten salt, 23:49895(R) (ORNL-4235)
reprocessing of molten salt, 24:13998 (ORNL-4400, pp 31-56)
reprocessing of molten salt, 24:16486 (ORNL-4449, pp 96-163)
reprocessing of molten salt, by fluoride volatility process, 23:40805 (ORNL-TM-2578)
reprocessing of molten salt, by reductive extraction, 25:54712 (ORNL-4682, pp 1-38)
reprocessing of molten salt, by selective reduction and extraction using molten bismuth, 25:41903(P)
reprocessing of molten salt, design of processing test stand and molybdenum reduction extraction equipment for, 24:46308 (ORNL-4548, pp 277-333)
reprocessing of molten salt, development of contactor for, 24:46308 (ORNL-4548, pp 277-333)
reprocessing of molten salt, energy and material balance calculations for, 24:16625 (ORNL-4449, pp 214-47)
reprocessing of molten salt, equipment for continuous, 24:46308 (ORNL-4548, pp 277-333)
reprocessing of molten salt, evaluation of contactors for, 24:266 (ORNL-4422, pp 1-47)
reprocessing of molten salt, flowsheet analysis for, 25:57522 (ORNL-4676, pp 234-71)
reprocessing of molten salt, for protactinium-233 recovery and separation of fission products, 24:9277
reprocessing of molten salt, frozen-wall corrosion protection for metallic walls of equipment for, 24:19050 (ORNL-4365, pp 21-61)
reprocessing of molten salt, progress report on studies of, 24:19050 (ORNL-4365, pp 21-61)
reprocessing of molten salt, reductive extraction engineering studies on, 24:16625 (ORNL-4449, pp 214-47)
reprocessing of molten salts by low-pressure distillation, removal of lanthanide fission products by, (E), 25:10210 (ORNL-4434)
reprocessing of molten-salt, 22:47204 (ORNL-4254, pp 241-78)
reprocessing of molten-salt, 23:19829 (ORNL-4344, pp 291-327)
reprocessing of molten-salt, 22:27861 (ORNL-4204, pp 60-7)
reprocessing of molten-salt breeder, analysis of flowsheet for, 24:266 (ORNL-4422, pp 1-47)
reprocessing of molten-salt, by distillation, 22:14565 (ORNL-4139, pp 48-72)
reprocessing of molten-salt, by vacuum distillation, 23:2379 (ORNL-TM-2213)
reprocessing of molten-salt, measurement of relative volatilities in, 22:47204 (ORNL-4254, pp 241-78)
reprocessing of molybdenum—uranium, 23:35291(P)
reprocessing of molybdenum—uranium, by solvent extraction of phosphomolybdic complex, 23:35263(P)
reprocessing of molybdenum—uranium, flow diagram for first decontamination cycle in, 23:47607
reprocessing of molybdenum—uranium, industrial, 23:47606
reprocessing of molybdenum—uranium, recovery of fission products in, 23:47604
reprocessing of MSBR, 23:352 (ORNL-4272, pp 1-33)
reprocessing of MSBR, 23:49896(R) (ORNL-4364)
reprocessing of MSBR, by fluorination—reductive extraction and metal transfer process, 24:46308 (ORNL-4548, pp 277-333)
reprocessing of MSBR, by fluorination—reductive extraction and metal transfer, 25:2313 (ORNL-4572, pp 1-36)
reprocessing of MSBR, by reductive extraction, 24:36355 (ORNL-4586, pp 50-66)
reprocessing of MSBR, chemical separations method for continuous, 24:11199
reprocessing of MSBR, flowsheet for, 25:2313 (ORNL-4572, pp 1-36)
reprocessing of MSBR, proposed reductive extraction processing flowsheet for, 23:45369 (ORNL-4396, pp 269-301)
reprocessing of MSBR, semicontinuous engineering experiments on reductive extraction for, 25:4138 (ORNL-TM-3053)
reprocessing of MSRE, 22:47112 (ORNL-4254, pp 88-173)
reprocessing of MSRE, by fluoride volatility techniques, 23:38046
reprocessing of MSRE, chemistry of, 23:45182 (ORNL-4396, pp 129-209)
reprocessing of MTR-type, equipment and procedures for, 23:47598
reprocessing of MTR-type, flow diagram for, 23:47600
reprocessing of natural uranium, enriched uranium oxides, uranium dioxide—plutonium dioxide, and aluminum—uranium, uranium—zirconium alloys, 22:47223
reprocessing of NPR Lot XIV, test reports from West Valley, 24:41398 (SRO-344-5)
reprocessing of NPR, operation of Nuclear Fuel Services, Inc., West Valley Facility for, 24:16626 (SRO-344-4)
reprocessing of oxide, by direct chlorination volatility techniques, 23:38054
reprocessing of oxide, by fluoride volatility method, 23:2396
reprocessing of oxide, by fluoride volatility process, 23:49908
reprocessing of oxide, by fluoride volatility techniques, 23:38050
reprocessing of oxide, by fluoride volatility techniques, pilot plant experience in, 23:38049
reprocessing of oxide, carbide, or alloy, fluorination method for, 23:40812(P)
reprocessing of oxide, design and operation of Windscale plant for, 25:51559 (A/CONF.49/P-491)
reprocessing of oxide, economics of, 24:29357 (CEA-CONF-1534)
reprocessing of oxide, economics of, 25:4134(T) (AEC-tr-7198)
reprocessing of oxide, fluorination method for, 25:51557 (A/CONF.49/P-448)
reprocessing of oxide, fluorination process for, 23:35306(P)
reprocessing of oxide, for gas-cooled reactors, 23:49888 (CEA-CONF-1380)
reprocessing of oxide, liquid-metal head-end process for, 25:57507(R) (ANL-7799)
reprocessing of oxide, material balance flowsheets for, 24:267 (ORNL-4422, pp 48-106)
reprocessing of oxide, nitric acid dissolution of particles in Thorex process for, 25:39564 (JUL-733-CT)
reprocessing of oxide, Windscale plant for, 25:15735
reprocessing of plutonium and uranium, design and performance of centrifugal mixer—settler for, 24:9566
reprocessing of plutonium dioxide—uranium dioxide, by chloride volatility methods, 24:11645 (BARC-406)
reprocessing of plutonium dioxide—uranium dioxide, by fluoride volatility process, 23:49910
reprocessing of plutonium oxide—uranium oxide, by TBP process, 23:49884 (CEA-CONF-1361)
reprocessing of plutonium, by ion exchange process, 23:38075
reprocessing of plutonium- and uranium-containing, by extraction using quaternary ammonium nitrates, 25:239(P)
reprocessing of plutonium- and uranium-containing, fused salt method for, 25:21149(P)
reprocessing of plutonium—uranium, by solvent extraction using TBP, 24:16649
reprocessing of plutonium-containing, potentiometric determination of plutonium in solutions from, 24:4202
reprocessing of plutonium-containing, radiation protection problems in Trombay facility for, 24:31661
reprocessing of power plant, at the Hague Centre, review on, 23:7620
reprocessing of power reactor, analysis of economics for, 22:48705
reprocessing of power reactor, description of U.K.A.E.A. facilities for, 23:40165 (CONF-681064-7)
reprocessing of power, fission product production in, 24:16818 (ORNL-4473)
reprocessing of power, recovery of americium, curium, and neptunium in Purex Process for, 23:47585 (KFK-976)
reprocessing of power, salt mine disposal of solidified high-level radioactive wastes from, 24:5864
reprocessing of pyrocarbon-coated, by chloride extraction process, 25:57542
reprocessing of RA, 24:19044 (IBK-832)
reprocessing of Rapsodie, by TBP process, 23:49884 (CEA-CONF-1361)
reprocessing of Rapsodie, improvements in AT.1 process in Cyrano cell for, 24:11653 (CEA-N-1148, pp 183-271)
reprocessing of Rapsodie, improvements in AT.1 process in Cyrano cell for, 24:22723(T) (ANL-Trans-799)
reprocessing of silicon carbide-coated thorium carbide—uranium carbide, head-end steps in, 23:19831 (ORNL-TM-2389)
reprocessing of slightly enriched oxide, decontamination factors in, 22:47222
reprocessing of slightly enriched uranium oxide, using TBP, 23:49881 (CEA-CONF-1358)
reprocessing of solid, method for calculating ionization-excitation rates in process fluid for, 23:24300
reprocessing of spent graphite-coated, process for, 22:30657(P)
reprocessing of spent molten fluoride, 24:4360(P)
reprocessing of spent uranium dioxide, by fluidized-bed fluoride volatility process, 23:21779 (ORNL-TM-2170)
reprocessing of spent uranium, by nitride precipitation, 25:4149
reprocessing of spent uranium, chlorination process for, 23:9523(P)
reprocessing of spent, decontamination of hot cells for, 25:51781
reprocessing of spent, design and operation of plant in Karlsruhe, Germany for, 24:9567
reprocessing of spent, design of Eurochemic plant for, 24:46462
reprocessing of spent, design of plant for chop—leach, 24:9628
reprocessing of spent, economics of aqueous, 24:9570
reprocessing of spent, economics of dry radiochemical, 24:9462
reprocessing of spent, in Japan for recovery of plutonium, 24:16629
reprocessing of spent, in Japan for recovery of plutonium, 25:21141
reprocessing of spent, international aspects of, 23:37524
reprocessing of spent, predictions for commercial, 23:11621
reprocessing of spent, proposed improved methods for wet, 24:9461
reprocessing of spent, use of boron poison for criticality control in, 23:35278
reprocessing of spent, use of soluble neutron absorbers for criticality control during storage of fissile solutions from, 24:5862
reprocessing of spent, using tridodecylamine, effects of alkylbenzene diluents on, 25:6393 (CEA-N-1341, pp 245-315)
reprocessing of spent, using tridodecylamine, effects of alkylbenzene diluents on, 25:26330(T) (ORNL-tr-2410, pp 14-78)

reprocessing of stainless steel- and Zircaloy-clad, simultaneous electrolytic cutting and lixiviation head-end method for, 24:2293
reprocessing of stainless steel-clad oxide, by fluoride volatility process, 23:49887 (CEA-CONF-1379)
reprocessing of stainless steel-clad, pilot-plant studies on electrolytic dissolution in, 25:51579 (IN-1196)
reprocessing of thorium oxide (ThO$_2$)—uranium oxide (UO$_2$) coated particle, 25:48260(R) (ORNL-4637)
reprocessing of thorium, aqueous processes for, 22:40173 (KR-126, pp 298-323)
reprocessing of thorium, review of methods for, 22:42387 (KR-126, pp 279-97)
reprocessing of thorium, with high burnup by Thorex two-stage process, 25:57541
reprocessing of thorium—uranium, 23:49903
reprocessing of thorium—uranium, evaluation of aqueous and fluoride volatility methods for, 24:16648
reprocessing of thorium-based, engineering cost studies of, 22:23191 (CONF-660524-, pp 509-35)
reprocessing of thorium-containing, 24:29364(T) (ORNL-tr-2302)
reprocessing of thorium-containing spent, by Thorex process, effects of EDTA on fission product removal in, 25:48583
reprocessing of thorium-containing, by aqueous KFA-TBP 23/25 process, 23:38061
reprocessing of thorium-containing, by volatility process, sorption of uranium hexafluoride from gases from, 25:245
reprocessing of thorium-containing, development of processes for, 25:8324(T) (ORNL-tr-2406)
reprocessing of thorium-containing, flowsheets for KFA—TBP 23/25 process for, 25:8324(T) (ORNL-tr-2406)
reprocessing of thorium-containing, flowsheets for CHLORINEX, KFA-TBP 23/25, and THOREX methods for, 24:33761(T) (ORNL-tr-2320)
reprocessing of thorium-containing, hydrofluorination process in, 25:23695
reprocessing of thorium-type high-burnup, acid Thorex process for, 25:244
reprocessing of TRISO-coated ceramic, head-end separation of uranium-233 oxide and uranium-235 carbide particles in, 25:41906
reprocessing of uranium alloy, by skull reclamation methods, plant-scale equipment for, 25:23642 (ANL-7772)
reprocessing of uranium carbide, pyrochemical, 23:38047
reprocessing of uranium dioxide, by chlorination and distillation, 23:38053
reprocessing of uranium dioxide, molten halogenation and reduction method for, 23:35315(P)
reprocessing of uranium oxide, fluoride volatility process for, 24:16652(P)
reprocessing of uranium- and plutonium-containing, by fluoride volatility process, 23:15948(P)
reprocessing of uranium- and plutonium-containing, chlorine monofluoride process for, 23:15958(P)
reprocessing of uranium-base, economics of nonaqueous, 23:13804(T) (ANL-Trans-704)
reprocessing of uranium-containing, by electrolysis in molten salt bath, 24:11679
reprocessing of uranium-containing, by fluorination at two different temperatures, 23:35296(P)
reprocessing of uranium-containing, chlorine chloride volatility process for, 22:30673(P)
reprocessing of uranium-containing, fused salt method for, 23:35304(P)
reprocessing of uranium-containing, solvent extraction method for, 25:57534(P)
reprocessing of Zircaloy-2-clad uranium, potentiometric determination of fluorine in, 23:24284
reprocessing of Zircaloy-clad, zirconium decontamination in Zirflex and Purex processes in, 25:41889 (BNWL-1573)
reprocessing of, accountability analysis for plutonium in, 24:2129
reprocessing of, advantages and economics of automation of plants for, 24:2263 (CEA-CONF-1316)
reprocessing of, air-pulsing methods for extraction columns for, 25:2383 (AAEC/TM-547)
reprocessing of, amine extraction process for, 22:40169 (KR-126, pp 201-28)
reprocessing of, amine solvent extraction processes in, 24:46319
reprocessing of, analytical chemistry in, 22:39983 (KR-126, pp 143-52)
reprocessing of, analytical control of intermediate and end products from, 24:259(T) (ANL-Trans-775)
reprocessing of, analytical control of products from, 23:47605
reprocessing of, analytical methods for, 22:39984 (KR-126, pp 153-71)
reprocessing of, application of ion exchange to, 25:48584
reprocessing of, aquafluor process for, 22:40176 (KR-126, pp 361-84)
reprocessing of, aqueous and nonaqueous methods for, 23:38040
reprocessing of, at Eurochemic Plant, Mol, Belgium, review on, 23:7621
reprocessing of, atomic absorption spectrophotometry for control of, 24:36345 (CEA-R-3973)
reprocessing of, behavior of tritium during head-end, 24:19051 (ORNL-TM-2793)
reprocessing of, bibliography on safety in, 24:16219 (ORNL-NSIC-72)
reprocessing of, book on, 24:22734
reprocessing of, chemical and radiolytic stability of diluents and solvents in, 22:47226
reprocessing of, chemistry and economics of, in France, 24:16667
reprocessing of, chemistry of fission products in, 24:38815
reprocessing of, chloride volatility method for, 24:9419 (BARC-404)
reprocessing of, chloride volatility methods for, 24:9420 (BARC-405)
reprocessing of, chloride volatility methods for, 24:9418 (BARC-397)
reprocessing of, comparison of economics of wet and dry, 23:40851
reprocessing of, construction and operation of West Valley, N.Y., plant for, 24:9564
reprocessing of, control of iodine release in, 23:33249
reprocessing of, corrosion of niobium and titanium in electrolytic dissolvers for, 23:48321 (IN-1191)
reprocessing of, corrosion of Type 304L and Uranus S stainless steels by Purex Process waste solutions from, 24:8051 (BNWL-1237)
reprocessing of, criticality and safety studies on furnaces for use in, 24:41385 (CEA-N-1260)
reprocessing of, criticality calculations on strongly absorbing fuel pins in water lattices for, 24:31471
reprocessing of, criticality data on, 24:16316 (ARH-600(Vol.2))
reprocessing of, criticality problems in, 24:4362
reprocessing of, criticality problems in, 23:28968
reprocessing of, decontamination of waste solutions from, 25:41911(P)
reprocessing of, description of AT1 plant for, 22:25472(T) (ORNL-tr-1765)
reprocessing of, description of The Hague Center for, 22:45148(T) (ORNL-tr-1785)
reprocessing of, design and operation of equipment and plant for, 22:51061
reprocessing of, design and operation of Eurex and ITREC plants in Italy for, 24:16669
reprocessing of, design of apparatus for semicontinuous dissolution in, 24:25101(P)
reprocessing of, design of auxiliary equipment for, 23:425
reprocessing of, design of fast contactors for, 23:49894 (KFK-989)
reprocessing of, design of fast contactors for solvent-extraction, 22:40180 (KR-126, pp 415-24)
reprocessing of, design of γ-absorption analyzer for on-line control during, 23:40788(T) (AEC-tr-7076, pp 73-107)
reprocessing of, design of hot cells for improvements in aqueous, 23:49990 (CEA-R-3840)
reprocessing of, design of level indicator for, 23:40817
reprocessing of, design of plant for, 23:426
reprocessing of, design of remote monitoring equipment for solutions from, 23:19847(P)
reprocessing of, development of equipment for use in, 23:28953(T) (ORNL-tr-2146)
reprocessing of, development of Eurex process for, 24:31439(R) (EUR-4419)
reprocessing of, development of fluoride volatility methods for, 23:38076
reprocessing of, development of fluoride volatility processes for, 23:19820 (CONF-680610-, pp 65-78)
reprocessing of, development of frozen-wall fluorinator for, 24:46308 (ORNL-4548, pp 277-333)
reprocessing of, development of future market for, 22:40162 (KR-126, pp 21-30)
reprocessing of, development of nitrofluor methods for, 24:22745
reprocessing of, development of nonaqueous methods for, 25:37479
reprocessing of, developments and problems in Purex Process for, 24:36369
reprocessing of, developments in aqueous, 23:17545
reprocessing of, disposal of wastes from, 25:54726
reprocessing of, dissolution process for, 22:40165 (KR-126, pp 74-96)
reprocessing of, distribution coefficients for nitric acid, plutonium, and uranium in TBP in, 24:11660 (ORNL-TM-2711)
reprocessing of, dry methods for, 22:40183 (KR-126, pp 468-75)
reprocessing of, economic and technical aspects of, 23:28968
reprocessing of, economic and technical aspects of aqueous methods for, 23:49888 (CEA-CONF-1380)
reprocessing of, economic optimization of, 24:272 (ORNL-4422, pp 306-11)
reprocessing of, economic, technical, and safeguards aspects of, 24:16619 (CONF-681219-4)
reprocessing of, economics and uses of radioisotopes from, 24:31457
reprocessing of, economics of, 23:428
reprocessing of, economics of aqueous methods for, 22:40161 (KR-126, pp 9-20)
reprocessing of, effects of fission product chloride volatility on chloride volatility process for, 25:39578
reprocessing of, effects of fission-product chemistry on TBP process for, 22:40052 (KR-126, pp 101-19)
reprocessing of, effects of radiolysis of toluene on zirconium extraction in, 25:13093
reprocessing of, efficiency of solvent extraction processes in, 23:49889 (CEA-CONF-1381)
reprocessing of, efficiency of titanium phosphate ion exchanger for separation of cesium in, 23:35286
reprocessing of, electrolytic reduction of plutonium in, 24:19048 (NP-18167)
reprocessing of, electrolytic reduction of solutions during, 22:10262(P)
reprocessing of, engineering for, 23:415
reprocessing of, equilibrium data for Eurex process for, 25:29182 (RT/CHI-(70)31)
reprocessing of, equipment and methods for automatic control of, 25:6411
reprocessing of, equipment for solvent extraction processes for, 23:422
reprocessing of, evaluation of chloride volatility process for, 24:13866
reprocessing of, evaluation of minor isotope safeguard techniques in, 24:36359 (WASH-1154)
reprocessing of, evaluation of problems relative to flowsheet development for, 25:32045 (RT/CHI-(71)3)
reprocessing of, expansion planning of industry for, 24:31466
reprocessing of, flotation treatment of liquid waste from, 23:15953
reprocessing of, flowsheets for amine extraction in, 24:22741
reprocessing of, fluidized-bed methods in, 25:46552
reprocessing of, fluidized-bed techniques in, 23:47593
reprocessing of, fluoride volatility process for, 23:26320 (ANL-7550, pp 23-34)
reprocessing of, fluorination method for, 23:35317(P)
reprocessing of, French plants for, 22:12412
reprocessing of, French research on, 23:43386
reprocessing of, from fast breeder reactors, 22:40177 (KR-126, pp 385-93)
reprocessing of, from fast breeder reactors, aqueous methods for, 22:40179 (KR-126, pp 405-14)
reprocessing of, German research on, 23:43240 (NP-17899)
reprocessing of, Hanford research on, 25:39562(R) (HEDL-TME-71-55)
reprocessing of, head-end centrifuge for use in solvent extraction, 25:37459 (IN-1471)
reprocessing of, head-end methods and separation processes for, 24:9450
reprocessing of, heat transfer operations associated with, 23:421
reprocessing of, hydrocyclone contactor for, 24:44070(T) (ORNL-tr-2358)
reprocessing of, IAEA inspection of US plants for, 23:43496 (CONF-680506-, pp 29-33)
reprocessing of, impact of large-scale plants on, 24:5717
reprocessing of, in-line colorimetric determination of uranium in solutions from, 25:8197 (BARC-510)
reprocessing of, industrial plutonium production in, 23:19846
reprocessing of, input tank calibrations at Eurochemic plant for, 23:31404 (NP-17894)
reprocessing of, instrumentation associated with, 23:424
reprocessing of, investigations of accountability tank in, 24:13996 (KFK-996)
reprocessing of, ion exchange separation of fission products from plutonium and uranium in, 23:47609
reprocessing of, ion exchange separation of plutonium in, 24:22743
reprocessing of, ion-exchange method for final purification in, 22:40170 (KR-126, pp 229-44)
reprocessing of, isotope analysis for in-process inventory in plant for, 24:9432 (KFK-904)
reprocessing of, jet grinders for particle-size control in fluidized-bed denitrator in, 25:8323 (IN-1439)
reprocessing of, Karlsruhe plant for, 23:28952(T) (ORNL-tr-2116)
reprocessing of, kinetics of fluidized-bed combustion in, 23:24295
reprocessing of, kinetics of fluorination in, 25:54736
reprocessing of, large-scale recovery and use of xenon from, 25:26347
reprocessing of, licensing of plant operators for, 23:31405 (ORNL-TM-2573)
reprocessing of, long-range considerations involved in siting of plant for, 24:5721
reprocessing of, management of tritium in aqueous wastes from, 22:25444 (ANL-7375, pp 180-9)
reprocessing of, management of wastes from, 25:51590
reprocessing of, mass-transfer operations in, 23:423
reprocessing of, mechanical operations associated with, 23:419
reprocessing of, mechanical structures for fluid flow in plant for, 23:420
reprocessing of, method and plant for, 23:19842
reprocessing of, method for, 23:35289(P)
reprocessing of, methods used in Trombay plant for, 24:9451
reprocessing of, mixing of fluids in tanks of large length-to-diameter ratio by recirculation for, 22:33538
reprocessing of, molten ammonium nitrate method for, 22:47229(P)
reprocessing of, Netherlands—Norwegian Reactor School course on, Aug. 21 to Sept. 1, 1967, 22:40160 (KR-126)
reprocessing of, nitride forming reactions in liquid uranium alloys for, 25:8325(R) (SU-326-P-28-X-2)
reprocessing of, nuclear materials management in, 24:39201 (WASH-1147, pp 170-1)
reprocessing of, nuclear materials management in, 24:38988 (BNWL-1473)
reprocessing of, nuclear materials management in, 24:39181 (WASH-1147, pp 17-20)
reprocessing of, nuclear materials management in Purex Process plant for, 24:27185 (BNWL-1384)
reprocessing of, on-line analysis in, 24:44061 (CEA-N-1292, pp 29-52)
reprocessing of, on-line determination of uranium, plutonium, and fission products in streams in, 24:11413 (BARC-433)
reprocessing of, operation of Eurochemic plant for, 25:2324
reprocessing of, operation of West Valley Processing Plant for, 23:49891 (DOCKET-50201-20)
reprocessing of, optimization of plants for, 25:41894 (INR-1297)
reprocessing of, partition chromatography on silica gel for plutonium separation in, 24:22742
reprocessing of, performance of centrifugal contactors in solvent extraction, 23:35274
reprocessing of, performance of centrifugal extractor in, 24:29358 (CEA-CONF-1536)
reprocessing of, performance of centrifugal extractor in, 25:44408(T) (ANL-Trans-885)
reprocessing of, performance of EUROCHEMIC plant for, 24:16668
reprocessing of, performance of ICPP process for, 24:9429(R) (IN-1314)

reprocessing of, performance of stacked-clone solvent extraction contactor in, 23:49896(R) (ORNL-4364)
reprocessing of, pilot plant and sampling methods for, 22:27846 (CEA-N-816, pp 277-323)
reprocessing of, pilot plant for nonaqueous, 25:8342
reprocessing of, plant operation for, 23:427
reprocessing of, polarographic analysis for uranium in solutions from, 23:40536(T) (EURFNR-631)
reprocessing of, pretreatment of aqueous feed solutions prior to solvent extraction in, 22:40166 (KR-126, pp 87-100)
reprocessing of, problems encountered during construction of Italian Eurex plant for, 24:9563
reprocessing of, processing and disposal of radioactive wastes from, 25:2316 (ORNL-4572, pp 98-108)
reprocessing of, processing and storage of fuel from high-activity, 25:34697 (SZS-3/71 (pp 20-32))
reprocessing of, processing of radioactive waste from plants for, 24:36365
reprocessing of, progress in operation of EUREX and ITREC plants for, in Italy, 25:51549 (A/CONF.49/P-182)
reprocessing of, projected needs of Western European facilities for, 25:51565 (A/CONF.49/P-640)
reprocessing of, properties of plant accountability data for, 24:31467
reprocessing of, prospects and problems for, 24:33765
reprocessing of, pyrochemical and pyrometallurgical methods for, 24:22747
reprocessing of, pyrometallurgical processes for, 22:40182 (KR-126, pp 452-67)
reprocessing of, radiation shielding in, 23:416
reprocessing of, radioactive waste production by 1980 from, 23:38232
reprocessing of, radioisotope recovery in, 24:22687
reprocessing of, recovery of elements by, 23:47582 (BNWL-SA-1945)
reprocessing of, recovery of mercury from aqueous wastes from, 23:40848(P)
reprocessing of, recovery of neptunium, plutonium, and uranium in, 25:4144(P)
reprocessing of, recovery of plutonium in, 25:21144
reprocessing of, recovery of plutonium-238 in, 25:18492 (ANL-7709)
reprocessing of, redox properties of plutonium in, 23:26328(T) (RFP-Trans-55)
reprocessing of, reduction of waste from, 24:11682
reprocessing of, regulatory controls on environmental contamination from, 24:22975
reprocessing of, remote-handling equipment for analytical operations in, 24:26995 (UJV-2315-A-Ch)
reprocessing of, removal of alkyl halides by sorption on amine-impregnated carbon in, 23:40840(P)
reprocessing of, removal of iodine-131 from process gas in, 24:44067 (KFK-1025)
reprocessing of, research at Idaho Chemical Processing Plant on, 25:34690(R) (IN-1457)
reprocessing of, research progress in, 25:26328(T) (ORNL-tr-2410)
reprocessing of, review of, 24:4031
reprocessing of, review of British experience in, 24:2265 (CONF-671056-2)
reprocessing of, review of commercial experience in, 23:33250
reprocessing of, review of developments in, 24:19082
reprocessing of, review of halide volatility method for, 22:40174 (KR-126, pp 324-41)
reprocessing of, review of methods for, 23:417
reprocessing of, review of processes in, 23:40835
reprocessing of, review of progress on, 23:34887
reprocessing of, review of special engineering problems associated with, 23:416
reprocessing of, review on, 23:40811
reprocessing of, review on chemical and mechanical methods for, 24:16666
reprocessing of, review on economic and technical aspects of, in Italy, 23:24292
reprocessing of, review on methods for, 24:39035
reprocessing of, review on safeguard methods for, 24:38758
reprocessing of, role of radiolysis of process solutions in, 25:26349
reprocessing of, safeguard costs at plants for, 25:21082 (KFK-1107)
reprocessing of, safeguards methods for plant for, 25:21079 (IAEA-R-712-F)
reprocessing of, safeguards system at facilities for, 25:21289
reprocessing of, safety analysis of denitration step in, 24:19045 (IN-1293)
reprocessing of, safety aspects of aqueous methods for, 22:40185 (KR-126, pp 494-504)
reprocessing of, safety aspects of nonaqueous, 22:40186 (KR-126, pp 505-18)
reprocessing of, safety measures for, 23:24289
reprocessing of, safety regulations in disposal of waste from, 25:21143
reprocessing of, salt cycle for, 24:22746
reprocessing of, salt transport process for, 23:26319 (ANL-7550, pp 7-22)
reprocessing of, salt transport techniques in, 23:38058
reprocessing of, selection critieria for siting of plants in Europe for, 24:5720
reprocessing of, separation of iodine from off-gas from plant for, 24:20852 (NP-18166)
reprocessing of, separation of lanthanide rare earths and strontium from waste solutions from, 25:37490(P)
reprocessing of, separation of plutonium from uranium in, 23:35292(P)
reprocessing of, separation of silicon from uranium in, 23:26317(T) (AEC-tr-7045)
reprocessing of, separation of strontium and cesium ions from uranyl ions in, 22:47227(P)
reprocessing of, siting of plants for, 24:319 (ORNL-4422, pp 326-8)
reprocessing of, solvent extraction and fluorination methods for, 22:8203(P)
reprocessing of, solvent extraction process for, 23:4728(P)
reprocessing of, Spanish M-1 plant for, 25:10667(T) (LIB/Trans-310)
reprocessing of, starting materials for fluidized-bed preparation of uranium hexafluoride from, 25:26207 (BLG-448)
reprocessing of, status of U.S. commercial plants for, 25:37453 (A/CONF.49/P-65)
reprocessing of, steam distillation purification of solvents used in, 23:33255(P)
reprocessing of, steps in chemical, 23:26335
reprocessing of, study of reductants at Hanford Plant for, 24:50440 (ARH-SA-69)
reprocessing of, summary of 1964 Geneva Conference papers on, 24:22735
reprocessing of, summary of technical problems in, 24:2274
reprocessing of, survey of nonaqueous methods for, 23:28956
reprocessing of, Swedish plans and forecasts for, 25:41896 (NP-18878)
reprocessing of, Swiss studies on, 25:37473
reprocessing of, TBP extractions in, 24:16627 (UJV-2283-Ch)
reprocessing of, technical and economic evaluation of, 22:40187 (KR-126, pp 519-32)
reprocessing of, technology and economics in India for, 23:38062
reprocessing of, tests on centrifugal extractor for use in, 25:6394 (CEA-N-1341, pp 317-35)
reprocessing of, tests on centrifugal extractor for use in, 25:26331(T) (ORNL-tr-2410, pp 79-97)
reprocessing of, thermodynamics of chloride volatility process for, 23:43383 (JUL-565-CT)
reprocessing of, tracer technique for determination of plutonium and uranium in dissolver solutions for, 25:13081 (NP-18577)
reprocessing of, treatment and disposal of wastes from, 22:40171 (KR-126, pp 245-66)
reprocessing of, treatment and disposal of wastes from, 24:269 (ORNL-4422, pp 120-53)
reprocessing of, treatment of wastes from, 23:47581 (ARH-SA-51)
reprocessing of, tritium behavior in fluidized-bed fluoride volatility and pyrochemical methods for, 22:25444 (ANL-7375, pp 180-9)
reprocessing of, use of alkaline oxidizing melt to remove fission products in first step of, 24:9438(T) (ORNL-tr-1881)
reprocessing of, use of borosilicate-glass raschig rings as neutron absorber for criticality control in, 25:29197
reprocessing of, use of long-chain tertiary amines in, 23:47608
reprocessing of, use of NPH diluent in Purex Process for, 24:50441 (ARH-SA-73)
reprocessing of, use of soluble poison for criticality safety control in, 24:9453
reprocessing of, use of solvent extraction processes in, 24:9445
reprocessing of, use of TBP solvent extraction in, 24:22740
reprocessing of, use of tetravalent uranium as plutonium reductant in Purex Process for, 23:40795(T) (BNWL-tr-35)
reprocessing optimization for, 21:27835
reprocessing optimization for, 22:25472(T) (ORNL-tr-1765)
reprocessing plant for, description of AT1, 21:27835
reprocessing plant for, description of EUREX, 22:40197
reprocessing plant for, environmental radiation monitoring near Ashford, N. Y., 1965 through 1967, 24:2322
reprocessing plant in Cattaraugus County, New York, 1964-1967, environmental radiation surveillance of, 23:21794
reprocessing plants for, description of U.K, 22:48797
reprocessing plants for, effects on economics of large scale, 23:28423
reprocessing plants for, mathematical model for optimization of, 22:27521(R) (ORNL-4236)
reprocessing plants for, requirements for optimum economic site of, 24:7374
reprocessing plants for, use of advanced dynamic programming computational procedures in planning of, 24:18589 (TID-25349)
reprocessing program in Japan, effects on fuel cycle of, 24:31073
reprocessing requirements for fast power reactors, 23:52349(T) (JPRS-48330, pp 109-22)
reprocessing studies for gas cooled, silicon carbide coatings depositions for, 22:46911(R) (ORNL-4266)
reprocessing time for spent, effects on economic performance of fast breeder reactors, 24:11145
reprocessing times for light water power, 22:44841 (WASH-1082)
reprocessing, review on problems in equipment and methods for, 24:11668
requirements for all types of reactors, computer analysis of, 24:11125
requirements for Canadian, anticipated future, 22:42157 (AECL-3136)
requirements for Candu reactors, relationship of Canadian nuclear fuel industry growth to, 23:37549
requirements for future fast breeders, 21:34145
requirements for future power reactor development, 22:39822
requirements for Japanese power production, 23:11673
requirements for life span of power reactors, description of, 23:28387
requirements for natural uranium in power systems, linear programming technique for optimization of, 25:18152
requirements for power plants, review of worldwide, 24:26741
requirements for power production to year 2000, 23:37459
requirements for power stations, economics of uranium, 22:39814
requirements for power, projections of, 25:51103
requirements for uranium, 21:21669
requirements for Western Europe power reactors during 1990 to 2010, effects of fabrication and reprocessing on, 23:17167 (NP-17767(App.))
requirements for Western Europe power reactors during 1990 to 2010, computer programs for predicting, 23:28485 (NP-17556(App.))
requirements for Western Europe power reactors during 1990 to 2010, computer programs for predicting, 23:17167 (NP-17767(App.))
requirements for Western Europe power reactors during 1970 to 2010, 23:17166 (NP-17767)
requirements for Western world, uranium, 22:14312
requirements for world-wide power production, 21:21664
requirements for, 1970 to 1985 forecast of, 25:43994 (WASH-1139)
requirements for, evaluation of, 21:21647 (SGAE-RE-5/1966)
requirements for, technical and economic aspects of, 23:40324
requirements for, US gaseous diffusion plant capabilities for supplying, 23:17698 (ORO-665, pp 121-45)
requirements in Austria during 1975 to 1990, 24:43607 (SGAE-RT-31/1970)
requirements in Europe during 1970 to 2010, effects of variations in reactor programs on, 25:44127 (CONF-700903-17)
requirements in Europe for 60000 MW(e) capacity by 1980, 24:38391 (EUR-4453)
requirements in Europe for, projections to 1980, 23:45419
requirements in Japan for power reactors to 1978, 23:15749
requirements in U.S. during 1970 to 1990, 24:24723
requirements in United States for, 21:15790
requirements of uranium for, calculation of, 21:13981 (NP-16364)
requirements of uranium, worldwide, 21:19400
requirements of various reactor types, 21:38589
research and development on ceramic, in Yugoslovia, review on, 25:52424 (A/CONF.49/P-350)
research at Commissariat a l'Energie Atomique, 23:47815(R) (NP-17994)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research on laboratory techniques for, 22:4315
research on, review of recent developments in, 21:20466
research programs at Juelich on, 21:14127(R) (NP-16420)
research progress on, 25:39521(R) (HMI-B-107)
research progress on, in Japan, 22:30420
reserves and long-range requirements for, estimates of, 25:60020
reserves of U. S. uranium, 21:17490
reserves of, prediction of, 25:44217
resources and requirements for, review of uranium, 22:25155
resources in Canada for, comparison with fossil fuels, 25:39350
resources in Canada, trends in utilization of, 23:13510
resources in Latin America, 22:39965 (PRNC-112)
resources of, estimates of world wide, 25:54025 (A/CONF.49/P-359)
restructuring of mixed oxide fast, temperatures and kinetics for in-pile, (E/T), 25:44124 (ORNL-TM-3387)
rheological properties of, computer model for analysis of in-pile, 21:8165
rhodium-102 content of irradiated, 23:38173(R) (BNWL-1085)
rolling dispersion type stainless steel matrix borosilicate—uranium dioxide, stability during, 23:16515 (ORNL-TM-2417)
safeguarding of, tamper-resistant unattended methods for, 24:39177(R) (SC-DC-70-4947)
safeguards methods for, use of burnup data in, 25:4274
sampling of irradiated, laser-beam vaporization for micro-, 22:36543 (ANL-7450, pp 39-74)
self-shielding calculations of particle-type, comparisons of analytical methods for, 21:31941(R) (LA-3708(Pt.1))
separation of americium, curium, and neptunium from irradiated, 23:19769
separation of americium, curium, and promethium from irradiated blanket, 23:35128 (BNWL-SA-1492)
separation of cerium-144, cesium-137, and zirconium-95 from irradiated, for burnup determination, 24:18913
separation of cesium from irradiated, by ion exchange using titanium phosphate, 23:38066
separation of chlorides from MSBR, by reaction with hydrogen fluoride, 24:36355 (ORNL-4586, pp 50-66)
separation of fission products from circulating fluid, by sorption on carbon, 23:349 (NP-17651)
separation of fission products from irradiated, melt refining method for, 21:45191 (ANL-7325, pp 19-49)
separation of fission products, plutonium, and uranium from spent, by solvent extraction using TBP in kerosene, 22:25484
separation of iodine and rare earths from, methods for, 21:4594 (ORNL-P-2601)
separation of mixtures of elements from irradiated, by thin-layer chromatography, 21:40976
separation of mixtures of, by thin-layer chromatography, 24:20869
separation of molybdenum from, by solvent extraction using amyl acetate, 21:21873
separation of neodymium from irradiated, by solvent extraction using DEHPA, 23:47415
separation of neptunium and plutonium from irradiated, 24:22681
separation of neptunium and uranium from zirconium-alloyed, using boric acid and hydrofluoric acid, method for, 22:23095 (IN-1091)

separation of neptunium from spent, by solvent extraction and ion exchange, 23:40789(T) (AEC-tr-7076, pp 108-29)
separation of neptunium from spent, survey of facilities and quantities available through 1980 for, 24:2262 (BNWL-1205)
separation of neptunium hexafluoride from, by fluoride volatility process, chemistry of, 23:19823 (CONF-680610-, pp 140-60)
separation of neutron-irradiated, from fused salts, continuous-gas-phase volatility process for, 21:3167(P)
separation of plutonium and uranium from fast breeder, pyrochemical process for, 22:25442 (ANL-7375, pp 19-45)
separation of plutonium and uranium from, by fluoride volatility process, 24:39029(P)
separation of plutonium and uranium in mixed oxide, effects of temperature gradient on, (E/T), 25:8138 (NP-18556)
separation of plutonium from irradiated, 21:24104(P)
separation of plutonium from irradiated, by pulverization and solvent extraction using tertiary alkylamine nitrate, 23:35319(P)
separation of plutonium from irradiated, by solvent extraction using tridodecylamine and direct precipitation, 23:347 (NP-17553)
separation of plutonium from LMFBR, by solvent extraction, centrifugal contactor for, 25:2306(R) (ANL-7735)
separation of plutonium from LMFBR, development of mixer-settler for, 25:57508 (ANL-7810)
separation of plutonium from spent, 25:18517
separation of plutonium from, by solvent extraction using tributyl phosphate, electronic control of, 22:23123(P)
separation of plutonium from, criticality problems in Marcoule plant for, 23:7587 (CEA-R-3581)
separation of plutonium, thorium, and uranium from, by solvent extraction, 23:33258(P)
separation of protactinium and rare earths from molten salt, 23:49896(R) (ORNL-4364)
separation of protactinium from MSBR, flowsheet analysis for, 24:16625 (ORNL-4449, pp 214-47)
separation of protactinium from MSBR, using molten bismuth, 24:16486 (ORNL-4449, pp 96-163)
separation of protactinium-231 from, 25:13100
separation of rare earth fluorides from molten fluoride, using uranium trifluoride, 22:23126(P)
separation of rare earth fluorides from MSBR, evaluation of low pressure distillation for, 21:17707 (ORNL-TM-1730)
separation of rare earths and thorium from MSBR, 24:16625 (ORNL-4449, pp 214-47)
separation of rare earths from molten salt, 24:16486 (ORNL-4449, pp 96-163)
separation of rare earths from spent, by extraction chromatography and cation exchange, 21:21876
separation of ruthenium from effluents from irradiated, precipitation method for, 22:37842(P)
separation of strontium from nitric acid solutions of irradiated, ion exchange method using antimonic acid for, 23:35316(P)
separation of transuranium elements from MSBR, using liquid bismuth, 24:16625 (ORNL-4449, pp 214-47)
separation of uranium dioxide from, by fluoride volatility process, 21:32228(R) (ORNL-TM-1849)
separation of uranium from irradiated molten salt, by fluorination, 23:49896(R) (ORNL-4364)
separation of uranium from irradiated, dynamic behavior and regulation of mixer—settler plant for, 24:36480
separation of uranium from Rover, by burn-leach process, 23:6 (IN-1203, pp 37-51)
shape changes in, equipment for detection of pellet, 21:12263
shielding design for irradiated, in FFTF systems, 21:12234 (BNWL-342)
shipping and storage of radioactive, geometric programming method for minimization of cost of, 25:31649
shipping and storage of, criticality parameters of, 21:23659
shipping and storage of, in Germany, legal restrictions on, 25:34857
shipping container for, safety standards for inspection of, 23:11743
shipping fresh and spent, from 1970 to 2020, economics of, 23:365 (ORNL-4272, pp 225-37)
shipping in Federal Republic of Germany, legal aspects of, 24:44231
shipping LMFBR, cask designs for, 23:353 (ORNL-4272, pp 34-55)
shipping of high-temperature gas-cooled, economics of, 21:38450(R) (GA-7181)
shipping of irradiated, design of container for, 23:35445
shipping of irradiated, from future U.S. power reactors, development of equipment and methods for, 25:37557 (A/CONF.49/P-61)
shipping of irradiated, IAEA regulations for, 24:16824
shipping of irradiated, in India, 25:48825 (CONF-710801-(Vol.1), pp 322-35)
shipping of irradiated, safety studies of casks for, 21:45324 (ORNL-4145, pp 303-8)
shipping of power, design of metallic impact absorbers for shielded containers for, 25:48864 (CONF-710801-(Vol.2), pp 887-904)
shipping of spent LMFBR, liquid-sodium-cooled containers for, 25:2314 (ORNL-4572, pp 37-84)
shipping of spent, in Japan, safety programs for, 25:21730
shipping of spent, methods for, 25:48891 (PB-189506, pp 100-6.A)
shipping of spent, regulations for design of containers for, 24:2433
shipping of spent, summary of safety studies on, 22:53395
shipping of, cost reduction methods for, 23:40975
shipping of, design of casks for, 22:290
shipping of, safety studies for, 21:40571(R) (ORNL-TM-1913)
sintering of oxide, correction factor for in-reactor, 23:6047
sintering of oxide, effects of atmospheric conditions on, 22:12006(R) (ANL-7399)
sintering of thoria for, shrinkage measurements of, 21:32975 (TID-23882)
sintering plutonium or uranium compound, high-temperature furnace design for, 22:42950(P)
sintering uranium dioxide, method for, 23:3113(P)
size sorting apparatus for spherical pellets, 21:15809(P)
solubility of irradiated mixed oxide, in hydrochloric acid at high pressures, 25:58344(R) (LA-4693)
sound velocity in molten, development of methods for measuring, 25:52318(R) (ANL-7820)
specific heats of SNAP, drop-calorimeter determination of, 21:27788 (NAA-SR-Memo-12324)
stability of beryllium oxide—uranium dioxide—yttrium oxide, at high temperatures, 23:8315
stability of carbon-coated particulate, 21:10230(P)
stability of coated-particle, at high burnup, 22:26093 (ORNL-4229, pp 125-41)
stability of uranium carbide, effect of tungsten doping on irradiation, 23:1991(R) (AI-AEC-12680)
stability of, design of test furnace for studies of, 25:37527
stability of, effect of fission gases on, 22:26045
stabilization of thorium dioxide—uranium dioxide, by heating in fluidized bed at 2500°C, 23:36262
stochiometry of oxide, effects of high burnup on shift in, (E/T), 25:8137 (KFK-1181)
stoichiometric properties of oxide, comparisons of, 22:12006(R) (ANL-7399)
stoichiometry of mixed ceramic, determination by oxygen-to-metal ratios, 24:23505 (BNWL-1279, pp 2.1-26)
stoichiometry of plutonium dioxide—uranium dioxide, effects of temperature gradients on, 23:34117
storage and disposal of irradiated MSR, 25:155 (ORNL-TM-3144)
storage facilities for, standards for the design of, 25:29322
storage of irradiated, equipment and methods for dry, 21:41189
storage of liquid, design of vessel containing neutron absorbers for, 24:19190(P)
storage of radioactive, pool facility design for, 21:19486
storage of, cleanup system for basin for, 23:13824(R) (IN-1201)
stress analysis in pebble-bed reactor spherical, axisymmetric heat transfer solution for temperature and thermoelastic, (T), 22:32803
stress analysis of, thermo-elastic, 21:35770 (AAEC/TM-371)
stress distribution on shell surface of loose kernel type, for pebble bed reactors, (T), 24:50108 (AAEC/TM-535)
stresses and temperatures in spherical pellet-type, determination using computer programs, 21:35769 (AAEC/TM-366)
stresses in carbon—silicon carbide-coated particulate, model for calculation of, 23:46133
structure of coated particle, effects on thermal neutron spectra of heterogeneous, (T), 25:28658
sublimation of, enthalpy of, 21:42725(R) (ANL-7357)
supplies in European Communities, commission report on, 25:10327
supply effects on development of optimum economic 1000 MW(e) U. S. power reactors, analysis of, 22:48703
supply for Euratom power plants, status of, 25:5880
supply in Germany in 1968, tables of import and export, 24:16330
supply in West Germany, 21:46874
supply of North and South America, analysis of, 22:48796
supply of power, British facilities and services for, 23:28490
supply of uranium, projections for U.S, 23:7434
supply outside U. S., AEC policies on, 23:43210 (CONF-670338, pp 245-50)
supply policy in U.S. of, basic principles of, 23:19582 (ORO-665, pp 9-29)
supply requirements for fast power reactors, 23:52349(T) (JPRS-48330, pp 109-22)
supply services for U. K. reactors, description of, 22:47045 (NP-17599, pp 41-4)
supply-and-demand for Germany power reactors, analysis of 1966 and 1967, 23:5991
survey study on the U. S. uranium market, 22:18623
swelling and fission gas release from operating oxide, review of mechanisms for, 25:782 (WAPD-TM-980)
swelling and gas release in oxide, models for describing, 25:32796
swelling behavior of uranium, creep-rupture mechanisms in, 21:45907
swelling in carbide, metallic, and oxide, 25:35550
swelling of ceramic, effects of fission products on, (T), 24:7346
swelling of ceramic, model for solid fission product-induced, 24:14965 (GEAP-5583)
swelling of irradiated ceramic, (T), 24:46130
swelling of irradiated plutonium dioxide—uranium dioxide, 21:8156
swelling of irradiated urania and plutonia—urania, effects of fission products on, 21:38759
swelling of irradiated, effects of fission-gas bubble growth on, 23:9262
swelling of oxide, BUBL-1 computer program for effects of fission gas on, 24:7345
swelling of oxide, effects of transients on, (T), 24:7309
swelling of refractory, effects of fission gas on, 24:7356
swelling of space vehicle cermet, effects of strengthening and void spacing on, 23:49602(R) (UCRL-50004-67-4(Pt.1))
swelling of, BUBL-1 code statistical model for, 24:52987 (WAPD-TM-942)
swelling of, development of model for, 24:25762(R) (BMI-1839)
swelling of, effects of fission gas re-solution on, (T), 24:46131
swelling of, effects of re-solution of fission products on, (T), 24:7312
swelling of, effects of silicon and carbon on, 22:9988(R) (ANL-7391)
swelling of, effects of trace element impurities on, 22:9988(R) (ANL-7391)
swelling of, statistical model of fission gas induced, 24:46132
technology of fast breeder, 22:18501
tellurium release from ceramic, effects of helium and oxygen atmospheres on, 23:35109
temperature changes of HWOCR, systems for control of, 21:23587(R) (AI-CE-31)
temperature distribution in clad pellet-type, effects of coefficient of heat transfer on, 25:18589
temperature distribution in cylindrical ceramic, revision of PROFIL code for steady-state, 23:45141 (ORNL-TM-2443(Add.))
temperature distribution in mixed oxide, effects of densification and restructuring on, (E), 25:41420
temperature distribution in pebble bed, at high temperatures, 25:36980 (JUL-725-RG)
temperature distribution on shell surface of loose kernel type, for pebble bed reactors,(T), 24:50108 (AAEC/TM-535)
temperature profiles for PRTR powder and pellet uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), calculation of, 23:7396 (BNWL-CC-604)
tensile properties of composite dispersion-type, review on, 23:45989
test facility for, design of EOCR as, 21:8043 (IN-1049)
test methods for particulate carbon-coated Dragon, review of, 24:46770 (DP-Report-153)
testing and evaluation of coated-particle, by chemical analysis, metallography, and metrology, 24:42229 (DP-Report-295)
testing in TREAT, plans for, 23:20530 (BMI-1857, Sect.A)
testing of clad carbide, incorporating voids for accommodation of swelling, 25:4889(R) (UNC-5263)
testing of Dragon carbide prticle, nondestructive methods for, 24:44782 (DP-Report-326)
testing of Dragon, equipment and methods for post-irradiation, 25:4262 (DP-Report-446)
testing of irradiated and nonirradiated, using neutron radiography, 23:33353
testing of irradiated, autoradiographic method for, 24:7601(T) (NP-tr-1867)
testing of irradiated, equipment and method for neutron radiographic, 23:33352
testing of irradiated, techniques for preparation of autoradiographs for, 23:36224 (RT/CHI-(69)5)
testing of irradiated, use of cellulose nitrate in alpha autoradiographic, 25:29944(T) (LB/G-2916)
testing of irradiated, use of cellulose nitrate in alpha autoradiographic, 23:36223 (RT/CHI-(69)2)
testing of urania and uranium carbide, postirradiation, 21:25630(R) (ORNL-4071)
testing of, application of neutron transient characteristics in heavy moderators for nondestructive, 25:6204
testing of, description of computer-based NUFTIC data acquisition system for nondestructive, 23:47718
testing of, Halden program for in-pile, 22:12027(R) (HPR-88)
testing of, nondestructive, 21:31903(R) (BNWL-CC-500)
testing of, radiographic method for, 25:21258
thermal characteristics of, 22:33093 (KFK-700(Pt. II))
thermal characteristics of, 22:53273(T) (EURFNR-472)
thermal conductivity at low burnup of thorium dioxide—uranium dioxide, in-pile measurements of, 23:36271 (WAPD-TM-758)
thermal conductivity integration, correction for density in, 22:41097 (GEAP-5493)
thermal conductivity measurement at high temperatures in ceramic, method for, 21:11297 (KFK-415)
thermal conductivity measurements in thoria—urania and urania, effects of heat on, 21:46006
thermal conductivity of ceramic, balanced oscillator method for determination of, 24:42233 (KFK-1125)
thermal conductivity of ceramic, balanced oscillator method for in-pile measurement of, (E/T), 25:15411
thermal conductivity of ceramic, method of determining in-pile, 23:46130
thermal conductivity of cylindrical coated-particle, under helium and argon, effects of pressure and temperature on, 22:41099 (JUL-511-RX)
thermal conductivity of high burnup plutonium oxide (PuO_2)—uranium oxide (UO_2), measurement of 1200°C to melting, (E), 25:54288 (GEAP-13703)
thermal conductivity of irradiated plutonium dioxide—thorium dioxide, 23:36268 (AECL-3294)
thermal conductivity of loose coated particle beds, 21:8148
thermal conductivity of oxide, computer analysis of, 21:8163
thermal conductivity of oxide, effects of porosity on, 25:4858
thermal conductivity of porous ceramic, for fast breeder reactors, 21:38584
thermal conductivity of porous, effects of radiative heat transfer across spherical voids in a linear temperature gradient on, (T), 23:21885 (WAPD-TM-777)
thermal conductivity of pyrolytic-carbon coated particle, in helium at 1800 to 2700°F, 21:43683
thermal conductivity of sintered uranium oxide (UO_2) to 2300°C, Cyrano capsule measurements on, 23:9154 (CEA-R-3618)

thermal conductivity of substoichiometric plutonia—urania pellets and powders for, 21:40698(T) (EURFNR-286)
thermal conductivity of, equipment for measuring, 21:1228
thermal conductivity of, error analysis for Balanced Oscillator Method for in-pile measurement of, 24:38633 (KFK-1140)
thermal conductivity of, in-pile, 24:14967 (ORNL-4400, pp 103-17)
thermal conductivity of, produced by sol-gel process, 21:44961 (ORNL-TM-1971)
thermal diffusivity at 1,000 to 3,000°C, flash heating method for measurement of, 25:22089
thermal diffusivity measurements on, during irradiation, 24:37002 (ORNL-4586, pp 87-97)
thermal diffusivity of plutonium monocarbide for, 21:23589(R) (ANL-7308)
thermal diffusivity of, during irradiation, theory of time-dependent heat diffusion determination of, (T), 25:24630 (ORNL-4478)
thermal effects on microstructure of uranium nitride, incorporating uranium dioxide, 23:1050
thermal expansion at 1700°C of uranium dioxide, 23:36288
thermal expansion of cracked pellet-type, stress and strain distributions in collapsed cladding from, (T), 22:50844 (TRG-Report-1547)
thermal expansion of plutonia—urania solid solutions, 21:8150
thermal expansion of, fused-quartz dilatometer for measurement of, 24:19256 (ANL-7643)
thermal performance and restructuring of pellet and sphere-pac mixed oxide, in-pile, (E/T), 25:5992
thermal performance of fast reactor mixed-oxide, effects of smeared neutron density on, 23:4229
thermal properties of ceramic, equipment and methods for measurement of, 25:32795 (RT/ING-(70)23)
thermal properties of, analysis of digital computer input for, (E/T), 22:35665 (KAPL-3300)
thermal stability of plutonium ceramics for, 21:23589(R) (ANL-7308)
thermodynamic and optical properties of uranium plasma, for rocket reactors, 22:18541 (GA-8244)
thermodynamic properties of carbide and nitride, review on, 23:41534
thermodynamic properties of molten salt, 23:37958
thermodynamic properties of plutonium ceramic, methods of determining, 21:19496(R) (LA-3607)
thermodynamic properties of plutonium nitride—uranium nitride, 23:3118
thermodynamics of, mass-spectrometric studies for determination of, 22:7788(R) (ANL-7382)
thorium/uranium surface contamination of coated particles of, 25:40106 (SGAE-CH-69/1970)
transfer during processing, design of hopper feeder for, 25:54841(P)
transfer from preparation facility to analytical facilities, design of pneumatic tube system for, 25:51793
transfer of powdered radioactive, machine for, 21:6862
transfer of radioactive samples of ceramic, between ANL facilities, design and operation of pneumatic system for, 25:4306
transient testing of mixed oxide, 25:5996
transient testing of mixed oxide, capsule calibration for, 24:16317(R) (BNWL-1289)
transport containers for high-burnup, neutron shielding calculations for, 24:6604
transport containers for high-burnup, neutron shielding calculations for, 24:6584
transport from breeder reactors, economics of plutonium, 24:9629
transport of spent, economic and safety aspects of, 24:267 (ORNL-4422, pp 48-106)
transport of, design and testing of shipping casks for, 25:48290(R) (ORNL-TM-2663)
uranium emission from irradiated urania, mechanisms of atomic, 21:9251 (RT/FI-(66)18)
uranium fission in, ASTM method for determination of percent, 25:28998
uranium fission in, ASTM method for determining percentage of, 25:28980
uranium requirements and reserves for, 24:17236
uranium requirements and reserves for light water and gas cooled, 23:13381
uranium resources for, development of computer program for evaluating, 23:11663 (GJO-115-1)
uranium resources for, survey of European, 22:25000
uranium-235 burnup in thorium-containing, methods for determination of, 25:39405 (JUL-715-CT)
uranium-236 content in, obtained by recycling spent uranium, effects of, on separative work, 22:30681
use in fast breeder reactors of fused chlorides of plutonium, NaK, and uranium, 22:16151 (INR-842/C)
use in Federal Republic of Germany, legal aspects of, 21:12867
use in Japan, estimates of future, 23:13513
use in nuclear power plants, problems of future, 21:35584 (P-3589(RAND))
use of ceramics for, 22:4880
use of plutonia—urania in 1000 MW(e) sodium-cooled fast reactor, 21:23657
use of plutonium in thermal water-cooled reactor reloads, feasibility of, 23:4215(T) (AEC-tr-6946)
use of thorium in, development of, 21:35540 (AEET-269)
use of uranium, production of plutonium-238 by, 21:35595
use of, analysis of optimum economic, 24:18800
utilization at various Italian power stations, 22:16169
utilization in high power test reactors, model for optimum, 24:38614
utilization of beryllium oxide (BEO)-matrix plutonium and thorium, effects of fabrication processes on, 23:13504(R) (GA-6742)
utilization requirements in Yugoslavia for uranium power, analysis from 1975 to 2025 of optimum, 23:15645
vaporization of, 21:42725(R) (ANL-7357)
vaporization of plutonia and urania, aerosol properties of, (E), 21:46962 (BNL-11612)
vaporization rates and thermodynamics of carbide and nitride, 24:6267
void fraction in MSRE circulating, measurement of helium, (E/T), 23:23913 (ORNL-TM-2318)
void fraction in MSRE fused salt, use of neutron-noise for analysis of, 23:2010 (ORNL-TM-2315)
voids in reflector-controlled reactors caused by cermet, effects on specific mass of, 22:16318 (UCID-15268)
volatilization of unirradiated molten-salt, 23:45182 (ORNL-4396, pp 129-209)
volume of porous pellet-type, design of pycnometer for measurement of bulk, 24:41591
warranties for water cooled reactors, advantages and disadvantages of complete, 23:28489
xenon release from coated particle, effects of surface contamination on, 24:41001 (DP-Report-334)
Young's modulus of urania and molybdenum—urania cermets, effects of density on isothermal, 21:32992
zoning in Fort St. Vrain, effects on power distribution of, 21:38447(R) (GA-6830)
criticality of uranyl fluoride solutions with cylindrical configuration in ZPR-II, 21:15768 (N-66-33021)

Reactor Fuses
  see Reactor Control Elements

REACTOR LOADING MACHINES
alignment mechanism for, design of, 21:8009(P)
centering device for, description of, 23:9255(P)
centering device for, design of vertical tubular, 25:60254(P)
components for LMFBR, development program for, 23:2041 (WASH-1103)
configuration of 17 heavy water-moderated, description of, 22:46921 (TID-24679(Vol.2))
configuration of centrally-supported lateral extension-movement, 22:42407(P)
configuration of light-activated transducer system for remote position-indication, description of, 22:48763(P)
configuration of liquid-cooled reactor rotating-drum shielded tank-storage, description of, 22:48794(P)
configuration of multiple tube-connected coolant-sampling fuel element failure-detecting, description of modified, 22:42569(P)
configuration of pebble-bed reactor, description of, 23:4262
configuration of roller bearing-connected screw-activated multiple-link chain-drive, description of, 22:50876(P)
configuration of spherical-connection multiple movable jaws for, 22:42457(P)
control of EL-4, performance of digital computer system for, 23:40302
control system for, remotely operated, 21:27849(P)
cooling circuit for, design of auxiliary, 21:8010(P)
coupling device for fuel elements, design of, 21:32044(P)
criticality safety of, for Fort St. Vrain Reactor, 21:38449(R) (GA-6950)
decontamination of DIORIT, following removal of failed fuel rod, 23:28552 (EIR-148)
description for reactors with top rotating biological shield covers, 22:16238(P)
description for sodium-cooled reactor, 22:3872(P)
description of 550 MW integral unit gas cooled reactor, 22:3852
description of Beznau Power Reactor Unit 1, 23:21425
description of control rod three member pivotally coupled, 22:25166(P)
description of door-sealed lock-chamber with remote control, for gas-cooled reactors, 22:14218(P)
description of EBR-II, 21:35631
description of enclosed twin-arm, for gas-cooled reactors, 22:18640(P)
description of fluid-cooled external-overhead-movable, for pressurized fluid-cooled reactor, 22:35523(P)
description of gas pressure balanced liquid-sodium filled, for liquid sodium-cooled reactors, 22:16237(P)
description of gas-cooled reactor, 22:18628(P)
description of gas-cooled reactor, located in shielded gas-filled chamber above core, 22:10112(P)
description of gas-cooled reactor, with magazine for rapid fuel element transfer, 22:10114(P)
description of gas-cooled reactor, with means for monitoring refueling through a periscope, 22:10113(P)
description of gas-cushion bearing supported radial arm, for gas-cooled reactors, 22:10041(P)
description of heavy water-cooled and -moderated boiling reactor, 22:30266
description of heavy water-moderated boiling water-cooled plutonium self-sustaining power, 22:30238
description of heterogeneous gas-cooled reactor pressure vessel enclosed rotating arm, 22:20872(P)
description of Indian Point system, 21:46878
description of liquid metal-cooled reactor valve sealed overhead high temperature cover gas, 23:23923(P)
description of lock-chamber tunnel, for gas-cooled reactors, 22:10035(P)
description of pebble-bed reactor multiple-jet liquid injecting, 22:37578(P)
description of pneumatically-driven telescoping coaxial tubes for, 22:25196(P)
description of pressure vessel enclosed, 22:3950(P)
description of pressurized heavy water-cooled reactor valve sealed overhead flexible grab, 23:23922(P)
description of rotatable cylindrical, with sealed storage area, 22:3955(P)
description of single access drum cam regulated chute type, 23:31239(P)
description of vertical pressure vessel, for organic-cooled reactors, 22:3860
description of water-filled double-wall containment vessel guide duct connected, 22:14337(P)
description with means for positioning fuel elements in central position under access port, 22:25047(P)
design and development of, for SEFOR, 21:8039(R) (GEAP-5208)
design and operation of, 22:8252 (EUR-3629)
design and operation of Windscale Advanced Gas-Cooled Reactor, 21:42775
design and performance for EBR-II, 21:7855 (ANL-7201)
design characteristics of core handling, for liquid metal cooled fast test reactor, 25:54216(P)
design characteristics of high temperature gas cooled graphite moderated reactor, 25:60031(P)
design characteristics of liquid cooled shield penetrating, 25:57197(P)
design characteristics of liquid sodium cooled fast reactor, 25:60087
design characteristics of overhead mechanical linkage, 25:57210(P)
design characteristics of, effects of earthquake stresses on, (E/T), 25:51116
design characteristics of, with compartment for shielded single fuel element storage, 25:37151(P)
design concept for on-line refueling of twin high temperature gas cooled reactors, 23:43082 (GA-8471)
design configuration of 1000 MW(e) LMFBR, 23:33024 (BAW-1316(Vol.5))
design for advanced converter reactor, 21:38454 (GAMD-7867)
design for Essor reactor, 25:18627
design for fast breeder reactors, 21:12206(P)
design for Fort St. Vrain Power Reactor, 21:38451(R) (GA-7314)
design for Fort St. Vrain Reactor, 21:38447(R) (GA-6830)
design for gas cooled reactors, 21:25681(P)
design for gas-cooled reactor, 21:4418(P)
design for gas-cooled reactor, 21:4425(P)
design for gas-cooled reactors, 21:23772(P)
design for gas-cooled reactors, 21:19505(P)
design for HWOCR, 21:23587(R) (AI-CE-31)
design for Lucens Reactor, 21:38591
design for organic-cooled reactors, 21:23650
design for Oskarshamn Power Reactor, 21:46884
design for particulate fuel elements, 25:2395(P)
design for PFR, 21:23636
design for pressure tube reactor, 23:13923(P)
design for pressure tube reactors, 23:13923(P)
design for ROVI, 24:18670
design for SEFOR, 21:8087
design for SGHWR on-load, 21:38617
design for SNEAK, 21:30280
design for sphere shaped fuel elements and rod type control elements, 24:53008(P)
design for transfer of used fuel elements, 21:4417(P)
design for unloading fuel from containers, 22:19019(P)
design for use during reactor operation, 21:4419(P)
design of, 21:2910(P)
design of, 21:19443(P)
design of, 21:46974(P)
design of, 21:23780(P)
design of, 21:23777(P)
design of, 21:23782(P)
design of, 21:45291(P)
design of Atomics International conceptual 1000 MW(e) LMFBR, 24:18580 (AI-AEC-12792(Vol.4))
design of AVR remote, 23:52366
design of below core, with above core interlocking key device, 22:1893(P)
design of boiling reactor variable position end-to-end, 24:24844(P)
design of charging system for pebble bed fuel elements, 25:1903
design of cylindrical overhead, with swivelling plug and movable trolley, 22:14322(P)
design of device for research reactors, 21:2889(P)
design of gas cooled, 24:28864
design of gas cooled, 24:52935
design of gas cooled carousel type, for stringer type fuel assemblies, 24:9168(P)
design of hot cell for 1000 MW(e) LMFBR, 23:33023 (BAW-1316(Vol.4))
design of HWOCR on-line, 21:42724(R) (AI-CE-56)
design of HWOCR on-line, 21:38432(R) (AI-CE-4)
design of liquid sodium cooled fast, 25:31581(P)
design of low profile horizontal, for vertical core reactors, 25:28825(P)
design of Marviken PHW, 21:31959
design of movable-arm, for graphite-moderated gas-cooled reactors, 22:12071(P)
design of overhead beam, for gas-cooled reactors, 22:12070(P)
design of power reactor, problems and requirements for standardization of, 24:18607
design of power-driven, for vertical channels, 21:42841(P)
design of pressure vessel enclosed, for gas cooled reactors, 25:23417(P)
design of remote-control, 21:15663 (RT/ING-(66)5)
design of safe, for fuels, 24:39127(P)
design of vertical-overhead pressure-vessel contained, for gas-cooled graphite-moderated reactors, 23:17195(P)
design of, description of conceptual, 24:20647(P)
design of, for gas-cooled reactor, 21:5731(P)
design of, for gas-cooled reactors, 21:10192(P)
design parameters for 1000 MW(e) HTGR concept, 23:34896(R) (GA-8356)
design parameters for 1000 MW(e) HTGR-type reactor, updated conceptual, 23:4165(R) (GA-7553)
design parameters for Bohunice Power Reactor Unit 1 on-load, 23:26007
design parameters for fixed shield plug vertical core FFTF, 23:31192 (APDA-187)
design parameters for gas cooled fast reactors, 25:41439 (CONF-710315-7)
design parameters for gas cooled reactor on-load, 25:20738
design parameters for liquid sodium cooled, 24:24783 (JAERI-1177(Pt.1))

design parameters for liquid sodium-cooled and steam-cooled plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled European fast reactors, analysis of, 22:35498
design parameters for PM-1 and PM-3A Type 4 replacement core, 23:40419 (HIT-329-R(Vol.1))
design parameters for pneumatic actuated flexible tube gripper type, 23:47345(P)
design parameters for sealed casing enclosed, for liquid metal cooled reactors, 24:47873(P)
design parameters for Swedish Reactor (R-4) internal on-load, 23:28409
design parameters for Vandellos Power Reactor on-power, 24:13495
design parameters for vertical core water cooled, with electric inductance position indicator, 23:47205(P)
design parameters of 1000 MW(e) high temperature gas cooled, 24:52852 (GA-9400(Vol.1))
design parameters of Atucha Power Reactor, 23:34882
design parameters of BN-350 Reactor, 24:13510
design parameters of carriage type, 25:54294(P)
design parameters of conceptual 300 MW(e) prototype LMFBR, in Japan, 24:13532
design parameters of double prehension, for water cooled reactors, 25:10329(P)
design parameters of EBR-2, 24:18646 (CONF-690910-, pp 71-102)
design parameters of flexible tube connected vertical channel, 24:4171(P)
design parameters of gas cooled on-load, 24:28865
design parameters of gas cooled on-load, 24:29023
design parameters of gas cooled reactor pressure vessel enclosed, 25:20838(P)
design parameters of grab type, for stacked cluster arranged fuel elements, 24:47988(P)
design parameters of Hartlepool Power, 23:47146
design parameters of heavy water moderated reactor on-load magazine type, 24:5529(P)
design parameters of hollow tube rotating arm grab operation, 24:38639(P)
design parameters of hydraulic actuated telescopic ram, for steam generating heavy water moderated reactors, 24:50133(P)
design parameters of latch secured standpipe connected, 24:18792(P)
design parameters of liquid cooled, for liquid moderated pressure tube type reactors, 24:11192(P)
design parameters of liquid metal cooled, 24:52760
design parameters of liquid metal cooled, 24:52968
design parameters of liquid metal cooled, 24:52932
design parameters of liquid sodium cooled, 24:52759
design parameters of liquid sodium cooled, 24:52967
design parameters of liquid sodium cooled fast test reactor, 25:60174
design parameters of LMFBR and helium cooled fast breeder reactor, comparison of, 24:18611
design parameters of overhead standpipe, 24:47872(P)
design parameters of pantograph, for rotating vessel covers, 25:37154(P)
design parameters of periscope aligned cask type, 24:13643(P)
design parameters of Phenix Fast Reactor, 24:18578(T) (AEC-tr-7130)
design parameters of pivoting gantry type, for multiple core reactor systems, 24:53003(P)
design parameters of pneumatic actuated telescoping tubes with pivoting grapple head, 24:26851(P)
design parameters of pressurized water, 24:29097
design parameters with movable shaft, 25:10331(P)
design problems for prototype liquid sodium cooled fast breeder reactors, 25:18115
design requirements for heavy water moderated boiling power, 24:20571
design requirements of Bohunice Power Reactor Unit 1, 24:18512 (ZJE-60)
design safety criteria for FTR, revised, 24:18695 (BNWL-823)
design specifications for LMFBR, 25:1895
design with auxiliary equipment, 21:32045(P)
design with ball-driven members for unlocking fuel channel seals, 25:44214(P)
design with improved means for supporting and handling core elements within pressure vessels, 25:1904(P)
design with interchangeable component units for handling spherical fuel elements, 25:54296(P)
design with means for handling fuel elements with separable sections, 25:44212(P)
design with means for minimizing volume of coolant water in machine head, 25:44213(P)
design with means for separately handling fuel string and closure plug assembly, 25:44216(P)
design with means to compensate for misalignments between machine head and fuel channel, 25:44215(P)
design with two-link fluid flow, 21:30309(P)
designs for FTR, analysis of conceptual, 23:31193(R) (BNWL-567)
development for fast breeders, 25:23295
development for SEFOR, 21:19357(R) (GEAP-5301)
development in Canada of digital computer controlled, 25:39154 (IAEA-119, 12p.)
development of conceptual 1000 MW(e) HTGR, 23:45053(R) (GA-9372)
development of conceptual on-line high temperature gas cooled, 24:26770 (GA-8660)
development of gas cooled, 25:10166 (GA-10265)
development of gas cooled reactor, 25:25958(R) (GA-10444)
development of gas cooled reactor, 25:18099(R) (GA-10313)
development of grapple head operated gas cooled, 24:28984(R) (GA-8420)
development of grapple head operated gas cooled, 24:28986(R) (GA-9130)
development program for liquid sodium cooled, 24:52759
drive design for, electric powered screw-nut translational, 22:1901(P)
electromagnets for, device for remotely verifying operation of, 23:13592(P)
engaging and supporting device for, design of, 21:12268(P)
engineering studies on, sodium cooled fast reactor, 22:18503
fabrication of high-temperature power reactor, state-of-the-art for, 23:15603(T) (ORNL-tr-3010)
fabrication of Yugoslav power, 22:10087
fast liquid metal-cooled reactor shielded valve sealed dual oblique ramp, description of, 23:23920(P)
fuel element cladding-failure-detection-system, description of reactor access loop with temperature and pressure test chamber in, 23:15740(P)
fuel element gripper device for, 24:2076(P)
fuel element position indicator for, development of γ monitoring, 24:46058 (PG-Report-971)
fuel element storage facility for overhead-connected, description of vertical rotating carousel, 23:11369(P)
fuel element storage magazine for, description of coolant-filled cylindrical-shaped radial-arranged telescoping-arm-loaded, 23:9260(P)
fuel hoist for, with rotating-grabber and key-guided extending tube, 23:17288(P)
grab for vertically mounted fuel assemblies, description of water cooled, 22:44932(P)
grab type with extension tube, for liquid sodium cooled fast breeder reactors, 24:52943(P)
grabheads for, description of cam activated jaws and plunger for, 23:24050(P)
grabheads for, description of current variation position indicator for jaws of, 23:24052(P)
grabheads for, description of solenoid operated, 25:15414(P)
grabs for cable-suspended power-driven hoist-type, description of dual coaxial tube ball-latched, 22:42568(P)
grapples and cable development for, 21:15679
grippers for, description of wire-actuated double-hook, 22:39928(P)
grippers for, design of fuel element, 24:20646(P)
guide tube for gas cooled, description of vibration reducing wire mesh, 24:52941(P)
guide tubes for, description of reactor bottom penetrating, 25:28836(P)
guides for, description of internally grooved three rib rotating, 23:37836(P)
installation of EDF-2, problems in, 23:1987
lifting chain for compact winding and storage in, 25:44211(P)
modification of EBR-2, 24:18671 (ANL-7585)
operation of AVR remote, 23:52366
operation of Dungeness B, 23:37393
operation of gas cooled, 24:28864
operation of gas cooled, 24:52935
operation of gas cooled on-load, 24:29023
operation of high temperature gas cooled power, procedures for, 23:47203
operation of large power reactor, summary of, 22:16146 (GA-8075)
operation of LMFBR, description of optimum, 23:11245 (CONF-680419-, pp 403-21)
operation of Phenix Fast Reactor, 23:45040
operation of SEFOR, 24:20601 (GEAP-13565)
operation of SEFOR, mockup testing for optimum, 23:52363 (GEAP-5701)
operation of THTR, use of reliability analysis for optimum, 24:16199
operation procedures for uranium-233 fueled Molten Salt Reactor Experiment, 23:47212 (ORNL-4396, pp 1-47)
operation requirements of liquid metal cooled, 24:52932
operation sequence for gas cooled fast reactors, 25:41439 (CONF-710315-7)
operation sequence for overhead tube shaped gripper type, 24:22514(P)
operation sequence of Bohunice Power Reactor Unit 1, 24:18512 (ZJE-60)
overhead tube-shaped varying-pressure, description of liquid sodium-cooled reactor, 23:17198(P)
performance in graphite moderated carbon dioxide cooled power reactors, 24:28931
performance of 17 heavy water-moderated, analysis of, 22:46920 (TID-24679(Vol.1))
performance of Fermi Fast Breeder, summary of, 23:1972 (APDA-225)
performance of FUM, 21:34076(R) (ANL-7342)
performance of gas cooled power reactor, 25:53901 (A/CONF.49/P-470)
performance of graphite moderated carbon dioxide cooled power, 24:28929
performance of liquid sodium cooled, 24:52967
position control system for, description of multiple-row varying-number receiving coils for electromagnetic exciter coil varying-frequency position, 22:48784(P)
position indicators for, description of sound transducer, 25:54300(P)
positioning device for, design of, 21:46972(P)
positioning of, system for automatic precision, 24:18799
pressure lock tube for, description of vertical-access dual-section with removable plug, 22:39941(P)
pressure vessel-penetrating externally-driven vertical axis-rotating turntable with extending arm and grippers, description of liquid sodium-cooled fast reactor, 22:39801(P)
pressure vessel-penetrating horizontal pivot and transverse member vertical-access, description of liquid sodium-cooled fast reactor, 22:39800(P)
pressure vessel-penetrating internal electric-driven standpipe-guided spool-wound cable with sling-connection, description of, 22:39913(P)
pressure-vessel-type rotating-magazine fuel storage, description of gas-cooled reactor sealable, 23:9172(P)
reliability analysis of 300 MW(e) pebble bed, 25:6039 (RISO-214, pp 213-46)
rotating magazine, description of shielded, 23:45152(P)
safety systems of pressurized water, description of, 24:29097
screw-and-nut gripper drive for hollow cylinder contained, description of, 22:30396(P)
sealed mobile under-core magazine-type, for on-load refueling of downward-flow vertical core reactor, 23:17289(P)
sealing system for, design of, 21:1230(P)
shielding calculations for high temperature gas-cooled 1000 MW(e) reactor on-line "A", 23:26052 (GA-8639)
shielding design for SGHWR, 21:38616
shielding for gas cooled, description of standpipe, 23:23888(P)
shielding for, description of ring shaped support, 25:57209(P)
shielding of, survey of performance of, 23:13351 (AERE-R-5773(Vol.4), pp 1069-96)
shielding requirements for critical assembly, 25:44161 (WANL-TME-1895)
stress analysis for PM-1 and PM-3A Type 4 replacement core, 23:40420 (HIT-329-R(Vol.2))
stress analysis of PM-1 and PM-3A Type 4 replacement core, 23:40419 (HIT-329-R(Vol.1))
support for, description of, 22:18630(P)
testing of Fort St. Vrain Power Reactor Unit 1, 24:22381(R) (GA-9720)
testing of Fort St. Vrain Power Reactor Unit 1, preparation program for, 23:47169(R) (GA-9440)
testing of gas-cooled reactor on-power, description of, 22:46975
transducers for, description of sodium-immersed ultrasonic, 22:22654 (APDA-220)
transport tube container design for, 21:15801(P)
tube connected, for water cooled reactors, 23:52355(P)
vertical underneath core, with rotating magazine and pressurized coolant flow, 23:45153(P)
winches for, design of, 25:8460
winches for, design of, 24:48252
winding device design for fuel element cables, 21:32047(P)

REACTOR MODERATORS
(For general studies. Moderators for specific reactors or reactor types are treated at the reactor or reactor-type entry.)
assembly method for regular polygonal column from blocks of, 23:37798(P)
atom velocity spectra in, (T), 25:37108 (UARAEE-52)
behavior of various, radiation effects on, 23:40318 (NP-17868)
book: Nuclear Graphite, 22:34106
buckling calculations for boundary conditions of slab geometry, development of equations for, 21:23591 (CEA-R-3070)
configuration of pulsed reactor, development of calculations for optimum, 25:12827
core structure for solid, description of brick-type multiple hexagonal column key-coupled, 22:39945(P)
crystal defect structures of refractory materials, determination of, 21:40564(R) (NAA-SR-12395)
description of deuterium bearing substance and hydrogen bearing substance mixtures, 22:20971(P)
description of prismatic graphite rods for, with minimum transverse thermal expansion in reactor cold zone, 22:3948(P)
description of rod, with lateral surface helical slots, 22:3960(P)
description of solid multi-side polygon column, with key slots and control rod holes, 22:14323(P)
description of solid prismatic block, key-joined, 22:10107(P)
design of dimensionally stable graphite, 22:23874(P)
design of solid, 21:30222(P)
development and testing graphite, 21:23659
development of olefin polymers for, 21:39713(P)
development of organic compounds for, 21:40712(P)
development of refractory materials for, 22:30155(R) (NAA-SR-12296)
development of, review of, 23:9263
disadvantage factors for, methods for calculating, 22:50850
dump gate valve design for liquid, for reactor control, 21:21725(P)
effects of beryllium oxide, on FFTF neutron physics parameters, 21:46938(R) (BNWL-501)
effects on neutron damage flux of incorporation of fast, in thermionic fast space reactors, 23:15696
efficiency of pressurized water, effects of boron concentration, temperature, and density in, 22:30164(R) (WCAP-3703)
efficiency of pressurized water, effects of boron concentration, temperature, and density on, 22:30165(R) (WCAP-3706)
fabrication of plate-type clad, by compaction of ceramic or metallic powders, 24:19404
flow through reactor cores, tube arrangement for, 21:31989(P)
keying systems for graphite block, description of, 25:12770(P)
level of liquid, in pressure vessel, pneumatic device for measuring, 23:721(P)
materials development for, 22:614
materials development for, review of, 21:30303
materials development for, review on, 23:41734
materials for development of, 23:20531
materials for water-cooled reactors, summary of properties and performance of, 23:11174
materials for, development of, 22:21749
materials for, development status of, 25:8828 (BNWL-SA-3426)
materials for, properties of metal hydride, 25:32818
materials for, properties of transition metal hydrides as, 22:19528
materials for, review of, 22:52192
materials for, review of, 21:15797
materials for, review on development of, 24:44719
materials for, review on production and properties of graphitic, 25:35562
mechanical properties of, testing methods for, 22:30385

neutron absorption cross sections for, pulsed-source technique for measuring, 23:13179 (IEA-129)
neutron absorption theorem for poison-bearing, explanation of apparent violation of maximum, (T), 23:3908
neutron absorption time distribution in poison-bearing, (T), 22:20406 (FEI-85)
neutron age in, Monte Carlo code for calculation of, 23:30907 (AEEW-M-833)
neutron ages in, tables of calculated values for, (T), 22:32466
neutron attenuation in nonhydrogenous infinite homogeneous, solution of differential equations for, (T), 22:25149
neutron attenuation in, calculations using inelastic scattering data, 23:32892
neutron behavior in, use of time-dependent transport equation for describing thermal, 22:30372
neutron buckling calculations in, determination of diffusion length from, 22:30371
neutron buckling in, integral transport equation for calculation of, 21:31965
neutron cross sections for, few-speed model for calculation of, (T), 23:42832 (UCRL-71645)
neutron cross sections for, models for calculating Doppler-broadened effective, (T), 22:15927 (UCRL-50323)
neutron decay constants for injected pulsed beam in, mathematical development for, 21:23642
neutron decay constants in interacting, use of pulsed neutron method for determination of, (E/T), 24:2066 (CTH-RF-17)
neutron decay in crystalline, (T), 22:5749
neutron decay states in noncrystalline, energy dependent transport theory for determining unstable pulsed, 22:33155
neutron density distributions from pulsed sources in time-dependent, (T), 22:20417(T) (JPRS-43682, pp 106-22)
neutron density from pulsed source in finite moderating volumes, time-dependent, (T), 22:29882
neutron diffusion and rethermalization in hydrogenous, thermal, (E), 22:29874
neutron diffusion coefficients for, pulsed-source measurements of effect of cylindrical void channels on, (E), 23:13192
neutron diffusion in, review of calculations of spectra at vacuum interface of thermal, (T), 25:36650 (UARAEE-60)
neutron diffusion parameters in water, 23:15752
neutron distributions in, spectrum of relaxation lengths for, (T), 23:15339
neutron energy and time distributions from hydrogen-bearing radiators, (T), 22:44572(T) (ANL-Trans-638)
neutron flux decay in systems of heterogeneous, review of pulsed source measurements on, 25:54280 (A/CONF.49/P-310)
neutron flux depression in, effects of foil detectors on, (E/T), 25:8136
neutron flux distribution in multilayer, effective boundary conditions for, (T), 24:50209
neutron flux distribution in, instabilities in solution of initial-value problem for, 25:39337
neutron flux distributions in, solution of three-dimensional transport equation for monoenergetic, 23:19123 (RT/FI-(68)43)
neutron flux in cavity-containing hydrogenous, effects of cavity enlargement on slow, (E), 23:23615
neutron flux in heavy gaseous, Laguerre polynomials in calculation of thermal, 22:50852
neutron flux in strong anisotropic, measurement of thermal, (E/T), 25:6184
neutron flux in, effects on resonance integral of nonuniformity of, 22:30381
neutron flux measurements in, method for absolute thermal, 23:5750 (KURRI-TR-45)
neutron flux spectra in monatomic, numerical solution of thermal, (T), 25:37120 (UARAEE-69)
neutron flux spectra in, calculations of effects of re-entrant hole on, 23:13576 (RPI-328-142, pp 132-51)
neutron inelastic scattering by, measurements of, 23:6042
neutron inelastic scattering in, characteristics of thermal, (E/T), 24:50244 (IN-1427)
neutron interaction parameters between two cylinder shaped polyethylene disks, (E/T), 24:50255
neutron leakage flux for hydrogenous, measurement of cold, (E/T), 25:6203
neutron leakage in hydrogenous and polycrystalline, effects on extrapolated endpoint of thermal, (T), 25:48010
neutron leakage spectra from hydrogenous, angular- and energy-dependent thermal, (T), 22:29866
neutron leakage spectra scattering kernel measurements for hydrogenous, 21:30193
neutron plane-wave propagation in, calculations using linear Boltzmann equation for thermal, (T), 23:21226
neutron population in heavy, use of time response of threshold detector for determining, 23:37761
neutron pulse decay and distribution in, effects of inelastic scattering on fast, (T), 25:10315
neutron pulse decay constant from transport equation with pulsed source, discrete, 23:15333
neutron pulse decay constants and density in, thermal, (T), 22:29861
neutron pulse propagation in, 23:1756 (EUR-4071)
neutron pulse propagation in, discussion of experimental techniques for studying, 22:33157
neutron pulse propagation in, frequency dependence of thermal, (T), 25:48007
neutron pulse widths for, use of linear accelerator for experimental determination of, 23:26121 (IN-1218, pp 57-72)
neutron resonance absorption in systems of fuel—, analysis using Kantovorich variational method, (T), 23:49303
neutron scattering angle in energy-dependent problems, average, 23:13576 (RPI-328-142, pp 132-51)
neutron scattering by crystalline, computer program for calculations including long-range Coulomb interactions in, 23:23604 (IN-1280)
neutron scattering by molecular and crystalline, MVFC input preparation program for calculations of slow, 23:28601 (IN-1282)
neutron scattering cross section for hexagonal shaped polycrystalline, computer program calculation of, 25:48341 (INR-1300)
neutron scattering cross sections for GAMBIT program in thermal region, library of, 23:19127 (WANL-TME-1830)
neutron scattering cross sections for, data summary on thermal, 24:22056 (JAERI-1181)
neutron scattering in organic, calculations of thermal neutron spectrum and, 22:30379
neutron scattering in polyphenyl, calculation of thermal, 22:30380
neutron scattering in, research using pulsed-source technique, (E/T), 23:5749 (KURRI-TR-40)
neutron scattering kernels for various, mathematical models for, 21:46859 (KFK-602)
neutron scattering kernels for, modified FLANGE and FLANGE-II codes calculations of epithermal, 24:26825 (GA-9950)
neutron scattering law data for, at various temperatures, 22:48411 (AERE-R-5778)
neutron scattering law for, effect of incident energy broadening on, 23:44808
neutron slowdown in heavy, calculations for space- and time-dependent, 25:41194
neutron slowing down in hydrogen and nonhydrogenous, space and time dependent fast, (E/T), 24:29086
neutron slowing down in hydrogenous, measurements and Monte Carlo calculations for fast, (E/T), 23:49308
neutron slowing down in infinite, homogeneous, and weakly absorbing mixtures of elements, approximate solution for asymptotic fast, (T), 24:29082
neutron slowing down in, time moments of, (T), 22:48426 (RPI-328-133, pp 60-100)
neutron slowing down in, transient solutions of equation for time-dependent, 24:11307
neutron slowing down times in, effects of pulse shapes on, (T), 25:60232
neutron slowing-down distributions for, accuracy of methods for calculating space-dependent, (T), 23:3925
neutron slowing-down equation for weakly absorbing mixtures, analytic solution for, (T), 23:21228
neutron slowing-down times in thin slabs of hydrogenous, fast, (E), 23:10908 (CEA-R-3489)
neutron spectra emerging from cooled light water and heavy-light water mixtures in cylindrical geometries, (E), 21:23738
neutron spectra emerging from fast pulsed, time-focused crystal spectrometer technique for measurement of, 25:6186
neutron spectra in resonance poison-bearing, calculations and time-of-flight measurements of, (E/T), 23:10917
neutron streaming in, effects of anisotropic hole systems on, (T), 23:24002
neutron thermalization in hydrogenous, time-dependent, (E), 22:48412(T) (AERE-Trans-1088)
neutron thermalization in organic, Monte Carlo analyses of time-dependent, 22:30382
neutron thermalization in small crystalline, analysis of pseudo-mode in space-dependent, (T), 25:23408
neutron thermalization in two-temperature, pulsed experiments on, 24:8796 (CISE-R-103)
neutron thermalization in, asymptotic properties of energy distribution during, (T), 22:5711
neutron thermalization in, development of scattering kernels for, (T), 25:34423(R) (GULF-RT-10469)
neutron thermalization in, nonisotropic scattering kernels for calculations of time-dependent, (T), 23:1757 (INR-P-925)
neutron thermalization in, slow, (T), 25:46332
neutron thermalization in, survey on, (E/T), 22:15929
neutron thermalization in, time-dependent, (T), 22:41929
neutron thermalization in, with nonuniform temperature distribution, calculations using heavy-gas model, (T), 22:11887
neutron thermalization measurement in, use of time of flight diffraction techniques for, 24:16314
neutron thermalization power of Miramid plastic, method for measuring, (E), 22:53068
neutron thermalization with isotropic scttering, solution of initial-value problem for, (T), 23:15338
neutron time and energy distributions in heavy, calculation of pulse width as function of mean energy of pulse for determining, 24:7302
neutron time distributions for, calculation of, 23:26121 (IN-1218, pp 57-72)
neutron transport in finite homogeneous, Laplace-transform solution of eigenvalue problem for, (T), 25:45876
neutron transport in fuel-moderator slabs with anisotropic scattering, disadvantage factor for, 24:30683
neutron transport in polycrystalline, theory for pulsed, (T), 23:28222
neutron transport in, effect of periodic temperature distribution on, (T), 24:4138
neutron wave propagation experiments on, effects of cold neutrons in, (E/T), 23:5748 (KURRI-TR-36)
neutron wave propagation in continuum region, (T), 23:3907
neutron wave propagation in crystalline, limiting critical frequency for, (T), 23:17054
neutron wave propagation in crystalline, limiting critical frequency for, (T), 23:17053
neutron wave propagation in noncrystalline and polycrystalline, eigenvalue spectrum of velocity-dependent Boltzmann transport operator for, (T), 23:3901
neutron wave propagation in noncrystalline and polycrystalline, eigenvalue spectrum of velocity-dependent Boltzmann transport operator for, (T), 23:3926
neutron wave propagation in polycrystalline, velocity-dependent transport theory analysis of, (E/T), 22:35714
neutron wave propagation in, interpretation of thermal, (T), 23:21220
neutron wave propagation in, pseudo-mode analysis of, (T), 23:17056
optimization of pulsed source, 25:48333
phonon frequency distributions in, temperature dependence of, (T), 22:48414(R) (GA-8773)
physics calculations for bundles of rods, albedo method for, (T), 25:54262 (IAE-1981)
production plants in Euratom countries for, survey of, 23:19475
production process for porous metal hydride particles with capacity for controlled absorption and release of hydrogen, 25:10334(P)
properties and structure of, review of, 23:45496
properties evaluation of, analysis of, 22:48791
properties of metal hydrides for, review of, 23:9263
properties of, handbook on, 21:23699
radiation effects on refractory materials, measurement of, 21:40564(R) (NAA-SR-12395)
radiation heating rate calculations in, use of shielding point source exponential attenuation kernel method for, 23:13458 (AERE-R-5773(Vol.2), pp 370-93)
reactivity coefficient calculations for pressurized-water, effects of localized coolant boiling on, 21:38499
reactor control using variable phase liquid, 22:25051(P)
research on, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
stacking of prismatic blocks of, keying method for, 23:40501(P)
structure of solid, description for heterogeneous reactors, 22:3874(P)
structure of solid, description of key aligned, 22:3873(P)
system design for fluid, for reactor control, 21:21692(P)
tank for pressure-tube type, description of collapsible, 22:25192(P)
temperature monitoring of, method for, 24:50095(P)
temperature of, effects on core stability, 21:17472 (WCAP-2987)
use of ceramics for, 22:4880
voids in, pulsed source techniques for measurement and calculation of effects of, 22:39778 (JUL-518-RG)

Reactor Multiplication Factor
see Reactivity

REACTOR OSCILLATORS
calibration of epithermal, 22:37615
control system of Balanced Oscillator Tests, description of automatic analog, (E/T), 22:35662 (EURFNR-498)
description of Milan Polytechnic L-54, 22:50834
design characteristics of RITMO, general, 23:26092 (RT/FI-(68)35)
design for measuring epithermal neutron absorption cross sections, 21:40358
design of in-core, description of circuits and instruments used in, 24:18719 (NP-18138)
design of, state-of-technology survey of, 24:4087 (BNWL-1036)
design requirements for measurement of fast reactor transfer function, 24:47893 (BNWL-1314)
development and performance of, in DR-1, 21:17525 (RISO-134)
drives for multiple upper-side-open square tube, description of switch-actuated gear, 22:53472(P)
electrohydraulic servo drive for, design for HTLTR of, 21:46939 (BNWL-535)
performance of local, theory of, 21:8050
physics of local, (E/T), 21:17530
pulse generator for, description of electromagnetic, 22:18637(P)
rod assembly for Sioux Falls, fabrication and testing of, 21:38429 (ACNP-67522)
temperature distribution in Saxton, design analysis of maximum, 21:40584(R) (WCAP-3696-4)
use for measurement of low reactivity, 22:44910
use for zero power transfer function of Kansas State University TRIGA Mark 2 reactor, description of, (E/T), 22:44899 (TID-24579)
use in burnup parameter determinations for irradiated fuel pins, (E/T), 22:48749 (AE-326)
use of local, for measurement of neutron resonance absorption in fuel materials, 24:47910
use of ROB-1, for measuring kinetics of Yugoslav RB reactor, 21:19489
use of, description of opposite movement for known and unknown absorption cross section samples for improved, 22:37589(P)
voltmeter for square-wave, design of digital, 21:28296 (AAEC/M-74)

Reactor Pressure Vessels
see Pressure Vessels

REACTOR SAFETY
(Theoretical or experimental investigations of the time-dependent behavior of various reactor types and designs, and in particular, the behavior of reactor types and designs under various real or hypothetical accident conditions.)
accident analyses for FFTF, 23:49584(R) (BNWL-1090)
accident analyses for FTR, outlines of parametric, 23:31193(R) (BNWL-567)
accident analyses for water cooled, analytical evaluation of emergency core cooling for, 23:28503(R) (BMI-1861)
accident analysis, 24:50940(T) (UCRL-Trans-10471)
accident analysis at BR-3, 23:15690
accident analysis for AARR, 21:30091(R) (ANL-7210)

accident analysis for fast reactors, 21:12139 (GEAP-4787)
accident analysis for FFTF, work energy release from core expansion in maximum hypothetical, (T), 23:23953 (BNWL-760)
accident analysis for HFIR, 21:23724 (ORNL-3573)
accident analysis for power reactors using SNAP 10A statistical technique, 21:34075 (AI-65-Memo-212)
accident analysis for TAPIRO fast source reactor, analog model methods for reactivity insertion, 23:15680
accident analysis for, basic concepts for maximum credible, 21:40551(T) (EURFNR-284)
accident analysis in fast critical assemblies, 21:30278
accident analysis in pulsed fast reactors, numerical method for, 21:14099
accident analysis in water-moderated reactors due to helium-3 loss in core, 21:38461 (NASA-TN-D-4093)
accident analysis methods development, 21:21755(R) (ANL-7302)
accident analysis of fuel element failure due to overheating, 21:38462 (ORNL-3981)
accident analysis of linkage of heat transfer and two-phase coolant flow modules, 21:23589(R) (ANL-7308)
accident analysis using existing data, research on, 21:15641(R) (BMI-1790)
accident at Lucens Reactor, description and investigation of, 23:34913
accident conditions in water-cooled reactors, pressure generations in, 21:40575(R) (STL-372-50)
accident description and procedures for HFR, during fuel irradiation capsule failure, 23:2073 (RCN-99)
accident during testing of Phoebus 1A, decontamination of test cell after, 21:14047 (LA-3633)
accident evaluation for boiling water power, analytical methods for hypothetical, 23:47095 (APED-5756)
accident evaluation for large reactors, methods for quantitative, 21:30151 (KFK-530)
accident flooding system, description of dry pool containment, 22:7873(P)
accident in fast breeder reactor, analysis of energy release for maximum hypothetical, (T), 24:43790 (JAERI-1188)
accident in zoned fast reactor, analysis of maximum credible, 23:4283
accident models for water reactors, use of existing data in coolant-loss, 21:7859(R) (BMI-1777)
accident probability concept for, analysis of, 22:22723
accident radiation dose calculations, computer program for, 24:38585
accident release of aerosols in liquid metal cooled fast reactors, 24:52949 (EURFNR-816)
accident release of iodine-131 in reactor containment systems, behavior patterns of, 23:26062
accident report recording and storage, computer system for United Kingdom reactors, 21:40523 (AHSB(S)R-127)
accident reports for incidents prior to January 1967, 21:44940 (LA-3611)
accident simulation for Kiwi, computerized analysis using MARS for, 21:38632
accidental contamination of environment, 23:47149
accidents associated with, tabular summary of, 22:12044
accidents at British power reactors, emergency action plans for, 24:43684
accidents at reactors, listing, classification, and analysis of, 24:4080
accidents due to reactivity inserts, loss-of-coolant and power overshoot in water-cooled reactors, computer code for calculating effects of, 21:27715
accidents in AGR-type power plants, analysis of coolant loss, blower failure, and air entry into cooling system, (E/T), 24:24869
accidents in fast breeder power reactors, Bethe—Tait model analysis of severe, 24:47879(T) (EURFNR-748)
accidents in fast breeder power reactors, Bethe—Tait model analysis of severe, 24:29037 (KFK-1057)
accidents in fast burst faciiities, review of, 24:11247 (CONF-690102-, pp 373-84)
accidents in fast reactors, analysis of potential, 24:47877 (ANL-7610, pp 259-367)
accidents in fast reactors, behavior of oxide fuel aerosols from, (E/T), 24:4072 (BNL-14070)
accidents in fast reactors, sodium superheat required for nucleation during, 21:38515
accidents in liquid sodium cooled fast reactors, effects of design parameters on hypothetical, 23:47151 (ANL-7520(Pt.2), pp 3-19)
accidents in LOFT, effects on power transients of, 23:52406(R) (IDO-17302)
accidents in oxide fueled water-cooled reactors, analysis of core melting, (E), 21:13988(R) (STL-372-47)
accidents in oxide fueled water-cooled reactors, analysis of core melting, (T), 21:13987(R) (STL-372-44)
accidents in power reactors, economic aspects of, 24:47888
accidents in prototype power reactors, risk criterion for analysis of, (T), 24:22371
accidents in research reactors, analysis of maximum credible, 23:23977
accidents in site independent power plants, procedures for prevention of, 24:11101 (IRS-T-16(1969), pp 55-66)
accidents in U.K. liquid sodium cooled fast reactors, effects of design characteristics on, 24:31088
accidents in U.S. power reactors, benefit—risk analysis of possible, 24:45925 (CONF-700810-47)
accidents in water cooled reactors, analysis of explosive interactions for molten fuel and coolant, 24:33400
accidents in water cooled reactors, propagation and reflection of underwater pressure waves from, 23:28506 (EUR-4101, pp 23-74)
accidents in world-wide reactors, review of 1945 to 1961, 23:37558 (NP-17851, pp 15-24)
accidents, fission product release in reactor loss-of-coolant, 21:7963
accidents, forces produced by reactor reactivity, analysis of, 21:7936
accidents, radiation dose to personnel following, 23:14169
accidents, reactor loss-of-coolant, calculation of heat transfer in, 21:8096
accidents, reactor loss-of-coolant, lumped parameter bubble-rise model of, 21:7965
accidents, reactor loss-of-coolant, water—zirconium, reactions in, 21:8097
accidents, reactor, facility for absorbing pressure released by, 21:5650(P)
accidents, reactor, performance of spray cooling devices for, 21:10146
accidents, sodium cooled fast reactor, fission product release and sodium fires in, 21:7885(R) (NAA-SR-12175)
acoustic effects of water reactor system blowdown, 21:7964
ACRS evaluation of use of partial plutonium loading in Saxton Reactor core, 23:17218 (DOCKET-50146-16)
ACRS letter on Monticello Power Reactor Unit 1, 23:4124 (DOCKET-50263-17)
ACRS letter on Monticello Power Reactor, Unit 1, 23:4123 (DOCKET-50263-16)
ACRS report on NBS Research Reactor, 23:23961 (DOCKET-50184-6)
ACRS report on Rancho Seco Power Reactor Unit 1, 23:7368 (DOCKET-50312-7)
aerosol agglomeration in LMFBR design basis accident, analysis of sodium oxide (Na_2O) and uranium oxide (U_3O_8), 23:52376 (AI-AEC-12837)
aerosol behavior in Containment Systems Experiment, 21:31902(R) (BNWL-367)
aerosols for Containment Systems Experiment, generation and preparation procedures and release and sampling systems for, 23:31181 (BNWL-1001)
aerosols in fast reactors, effects of accident conditions on distribution of high number density, (T), 24:7311
air cleaning in accidents, review of conference on, 21:25687
air cleaning system development for containment systems, review of, 23:23936 (CONF-680821)
air cleaning systems use and effectiveness, conference on, 21:31907 (CONF-660904-(Vol.1 and 2))
air sampler for containment systems, development of silver plated aluminum inlet for May pack, 23:24026 (CONF-680821-, pp 235-62)
analyses for FFTF and NPTF, July—Sept. 1968, 23.17245(R) (BNWL-917)
analyses for, tables of available computer codes for, 23:15663
analyses of EURATOM power reactors, description of methods for, 23:37364 (CONF-681101-37)
analyses of SNEAK, 21:30267
analyses of, IAEA guidelines for preparation of reports on, 25:15337 (STI/PUB-272)
analysis and evaluation of inspection methods, review, 22:30799
analysis for dual purpose reactors in U.K, 21:23707
analysis for dual-purpose power-desalination reactor, 21:23705(R) (ORNL-4087)
analysis for EOCR modified to a fast reactor test facility, 21:8043 (IN-1049)
analysis for Livermore Pool-Type Reactor, 21:14089 (UCRL-50147)
analysis for Los Alamos Critical Assembly Facility, 24:5548 (LA-4273)
analysis for Marcoule G-2 and G-3 Reactors, 21:31007(T) (ORNL-tr-1689)
analysis for NRX Reactor, 21:32004 (AECL-2692)
analysis for nuclear power plants, evaluation of systems engineering methods for, 23:23838
analysis for plutonium recycle in EBWR, 21:21754 (ANL-6841)
analysis for small portable reactors, 21:35644(R) (ORNL-4136)
analysis for sodium-cooled reactors, measurements of two-phase flow and boiling for, 21:40564(R) (NAA-SR-12395)
analysis from pulsed neutron measurements of the kinetics parameters, 22:12116
analysis in Japan, procedures for, 25:23318
analysis in U.S., application of, to radiation protection, 23:831
analysis in West Germany, review of procedures for, 24:52952
analysis of 1000 MW(e) LMFBR reference conceptual design, 23:43131 (CEND-337(Vol.3))
analysis of BNL Critical Assembly Facility, 21:40673 (BNL-11636)
analysis of conceptual 1000 MW(e) LMFBR reference design, 23:45054 (GEAP-5710)
analysis of Connecticut Yankee Power Reactor, 21:5623 (NYO-3250-5(Vol.1))
analysis of Connecticut Yankee Power Reactor, 21:5624 (NYO-3250-5(Vol.2))
analysis of core design concepts for sodium-cooled 1000 MW(e) fast reactor, 23:33027 (GEAP-5618)
analysis of critical parameters for, handbook on, 22:1862(T) (JPRS-42322)
analysis of CVTR operations, 21:40547(R) (CVNA-279)
analysis of equilibrium pressures and temperatures generated during sodium combustion in air, (T), 21:46886
analysis of European water power reactors, treatment of specific technical problems in, 23:4153
analysis of failure of emergency reactor core cooling systems, 22:12057
analysis of fast power reactor maximum accident, theoretical, 21:7989
analysis of fast reactor kinetics, dynamics simulator development for, 23:1991(R) (AI-AEC-12680)
analysis of fission product release after assumed core meltdown in FARET, 21:42832
analysis of FTR preliminary designs, 21:34152 (APDA-194)
analysis of German 1000 MW(e) fast steam-cooled, 21:44847 (KFK-613)
analysis of HWOCR cooling system dynamics, 21:42724(R) (AI-CE-56)
analysis of hypothetical maximum energy release accidents for zoned fast, method for treatment of discontinuous derivatives at interfaces for, 23:49572 (ANL-7410, pp 229-337)
analysis of Japanese reactors, 21:14014
analysis of MSRE, 21:25685
analysis of NASA Cavity Reactor Critical Experiment using uranium hexafluoride, 21:35714 (GEMP-402(Add.1))
analysis of NASA Cavity Reactor Critical Experiment, 21:35713 (GEMP-402)
analysis of nuclear engineered safeguards using probabilistic methods, 21:46903
analysis of nuclear power plants, perturbation-time-dependent and group function-model for, 24:20592
analysis of pipe failure mechanisms, in reactors, 21:15730
analysis of pressurized-water, 21:30178 (WCAP-3269-60)
analysis of Rapsodie Reactor systems, 21:35755
analysis of reactivity oscillator for Saxton Reactor core, 23:17223 (DOCKET-50146-21)
analysis of reactivity-addition accidents in EVESR, 21:7879(R) (GEAP-5269)
analysis of reactor accidents, mathematical and graphical, 24:43783(R) (BMI-1885)
analysis of Saxton Reactor Zircaloy-4 and stainless steel clad fuel elements test, 23:17213 (DOCKET-50146-8)
analysis of SEFOR, mockup testing in ZPR-3, 21:40674 (GEAP-5294)
analysis of transients in large reactors, 21:14036
analysis of UHTREX, 21:30153 (LA-3556(Rev.))
analysis of water cooled power reactors, review of European techniques for, 24:52947 (EUR-4467)
analysis of water moderated power reactors, review of problems in, 24:33364 (JAERI-1054)
analysis of, AIROS II-A program for, 21:46966 (NAA-SR-12452)
analysis of, comparison of MCA concept and reliability method for, 25:37039 (IRS-T-18(1970), pp 21-36)
analysis of, data collection system for quantitative, 24:50165
analysis of, description of methods for, 24:18690
analysis of, for 40000 to 50000 shp marine reactors, 21:42794
analysis of, for control system safety check of RTM and RITMO, 21:19472 (RT/ING-(66)17)
analysis of, individual mortality risk method for, 24:50168
analysis of, individual risk criteria for, 24:50161
analysis of, individual risk method for, 24:50167
analysis of, listing of computer programs for, 25:60127
analysis of, methods and models for Accident Analysis and Safety System Design Study, 25:28729 (BAW-1342)
analysis of, operational and economic, 21:46883
analysis of, outline of program for, 24:33407 (BNWL-1059)
analysis of, principles of unified systems method for, (T), 24:50169
analysis of, probability consequences technique for, 24:50166
analysis of, probability technique for quantitative, 24:50160
analysis of, quantitative reliability techniques for, 24:50162
analysis of, quantitative reliability techniques for, 24:50163
analysis of, quantitative risk evaluation for, 25:51145
analysis of, risk evaluation methods for, 25:37051
analysis of, summary of procedures for, 25:18157 (WHAN-SA-43)
analysis of, use of mortality risk concept in, (T), 24:50157
analytical description of a blowdown accident, activities during Oct. to Dec. 1967, 22:16108(R) (BMI-1825)
analytical description of accidents for, 21:38438(R) (BMI-1810)
analytical description of coolant-loss accidents using FRACREL and NURLOC codes, (T), 21:5601 (BMI-1779)
antiseismic design of reactors, 21:25630(R) (ORNL-4071)
argon-41 measurement instruments for, 21:12262
aspects of Dungeness B, summary of, 21:34123
aspects of, in space programs, 21:14056
assessment methods for reactor site and operation, review of, 25:41461
automation of ORNL reactor control and safety systems, 24:16251
auxiliary equipment design requirements for, 22:42222
behavior of Merlin reactor in the loss of forced cooling, 21:14078 (JUL-407-RE)
Bethe—Tait calculation of second excursions with delayed neutrons and Doppler feedback for cylindrical cores, (T), 22:20944
bibliography of current literature, 21:23615 (ORNL-NSIC-32)
bibliography on, 23:45096 (ORNL-NSIC-67)
bibliography on, 24:38582 (TID-3525(Rev.5)(Suppl.5))
bibliography on, 25:37047 (TID-3525(Rev.5)(Suppl.6))
bibliography on, 21:1170 (ORNL-NSIC-19)
bibliography on, 23:45097 (TID-3525(Rev.5)(Suppl.4))
bibliography on, 24:16219 (ORNL-NSIC-72)
bibliography on, 21:10874 (ORNL-NSIC-20)
bibliography on, 21:25630(R) (ORNL-4071)
bibliography on advanced and high-temperature gas-cooled, 23:9120 (JUL-Bibl.-14)
bibliography on current safety literature for, 21:30159 (ORNL-NSIC-34)
bibliography on U.S.S.R. shielding studies for, 22:50806 (ORNL-RSIC-23)
bibliography on, 1957—1968, 24:16210 (AED-C-1-17(1969))

bibliography on, April 1969, 23:23942 (ORNL-NSIC-59)
bibliography on, covering Sept. 1965 through Dec. 1966, 22:30160 (TID-3525(Rev.5)(Suppl.3))
bibliography on, Feb., 1968, 22:22710 (ORNL-NSIC-42)
bibliography on, indexed, 21:40568 (ORNL-NSIC-36)
bibliography on, indexed, 23:4275 (ORNL-NSIC-52)
bibliography on, indexed, 24:26793 (ORNL-NSIC-73)
bibliography on, indexed, 23:17233 (ORNL-NSIC-58)
bibliography on, indexed, 23:23943 (ORNL-NSIC-60)
bibliography on, indexed NSIC, 22:32780 (ORNL-NSIC-44)
bibliography on, January 1969, 23:13525 (ORNL-NSIC-54)
bibliography on, January 1970, 24:9134 (ORNL-NSIC-71)
bibliography on, July 1968, 22:42203 (ORNL-NSIC-45)
bibliography on, June 1969, 23:33003 (ORNL-NSIC-62)
bibliography on, October 1969, 23:52389 (ORNL-NSIC-70)
bibliography to Nov. 1967 on, indexed, 22:7815 (ORNL-NSIC-40)
blast shield design for pressure vessels, 21:23745 (IITRI-578-P-21-19)
blast shields for fast reactor cores, description of radially arranged cylinders and tubes for, 23:45099(P)
blowdown accident analysis for Indian Point Unit 1, 23:49488 (DOCKET-50003-9)
blowdown analyses for, 21:40541(R) (BNWL-492)
blowdown analysis during coolant losses in pressurized-water reactors, computer program for, 21:44859 (TID-24031)
blowdown analysis in pressurized water reactors, RELAP3 code for, 24:43788 (IN-1321)
blowdown analysis in pressurized-water power reactors, simulation of double-ended pipe rupture for, (E/T), 23:15665
blowdown calculations for, description of models for, 22:39774 (IDO-17272)
blowdown calculations for, development of pressure-coupled core-cooling model for, 22:42160(R) (BMI-1844)
blowdown conditions in pressurized water reactors, BRUCH-D computer program for analysis of, 24:24871
blowdown conditions in water cooled reactors, BLODWN-2 computer program for pressure undershooting during subcooled to saturated, 24:33401
blowdown conditions in water cooled reactors, comparison of Containment Systems Experiment and RELAP3 computer program calculations for, (E/T), 24:36047(R) (IN-1319)
blowdown effects on, subcooled and saturated, 22:39774 (IDO-17272)
blowdown experiments for, description of, 22:39774 (IDO-17272)
blowdown in pressurized water reactors, calculation and measurement of pressure profiles during, 24:22427(R) (IDO-17303)
blowdown in pressurized water reactors, transient wave propagation phenomena in, (E/T), 23:28508 (EUR-4101, pp 89-123)
blowdown in pressurized-water reactor, one-dimensional approximation for inlet pipe failure-initiated annular region, (E/T), 23:19512(R) (IDO-17266)
blowdown in water cooled reactors following coolant loss accident, (E/T), 23:33060(T) (AEC-tr-7047)
blowdown in water cooled reactors, mathematic model analysis for, (T), 24:7322
blowdown in water-cooled reactors, analysis of liquid—vapor action in pressure vessel for, (E/T), 23:21554
blowdown of two-phase two-component media, analysis of rarefaction wave propagation in, (T), 22:33182
blowdown pressure in water cooled reactors, reaction of core barrel to, 24:33403
blowdown pressure transient effects on pressurized water reactors, comparison of measured and calculated, 23:37366 (CONF-690609-8)
blowdown tests in CSE, pressure and temperature transients during subcooled, (E/T), 23:43130(R) (BNWL-1084)
blowdown tests in CSE, pressure and temperature transients during, 23:52378(R) (BNWL-1187)
boiling burnout in boiling power reactors, effects of steady-state and transient heat flux on transient, 23:19478
boiling in sodium cooled reactors, review of noise detection systems for nucleate, 23:31170 (AI-67-Memo-92)
boiling in swimming-pool reactors, use of neutron noise analysis for detection of pre-burnout, 23:23956 (CEA-R-3686)
book: Nuclear Reactor Radiation Safety, in Russian, 22:32801
book: Physical Research into Reactor Safety, in Russian, 21:30232
book: Radiation Safety in Nuclear Reactors, 21:40645
book: Radiation Safety of Nuclear Critical Assemblies, 23:50565
boron-injection system for Sioux Falls Power Reactor, 21:38469(R) (TID-23919)
buildings of power reactors, effects of seismic stress loading on movement in foundations of, (E/T), 24:5503 (TID-25271)
burnout during accident conditions, ISPRA study of factors affecting, 21:15770(T) (ORNL-tr-1563)
calculation code for fast power transients, 21:13986 (RT/FIMA-(66)4)
calculational methods in France, 25:53984 (A/CONF.49/P-579)
calculational methods of accident analysis for fast reactors, 21:30154 (LA-3683)
calculations for, effects of calculational and experimental uncertainties on sensitivity of, 21:35548 (ANL-7320, pp 263-9)
calculations for, formulation of statistical methods for, 22:22721
calculations for, modification of NURLOC-1.0 computer code for, 22:1753(R) (BMI-1815)
characteristics of helium-cooled power reactor 20 MW(e) non-integrated and 600 MW(e) integrated gas turbines, comparison of, 23:28529
characteristics of high temperature gas cooled power reactor, with integrated boiler, 23:28477
chemical aspects of, bibliography on, 22:24962 (HMI-B-68)
chemical aspects of, literature survey on, 22:1764 (HMI-B-64)
chemical aspects of, literature survey on, 22:53276 (HMI-B-76)
chemical aspects of, review of, 25:1908 (HMI-B-99)
chemical aspects of, review of, 25:60116 (HMI-B-113)
chemical reaction products from uranium oxide (UO_2) fuel, fission products, and water and sodium coolants decomposition at 1000 to 3000°K, (T), 23:2052(T) (AEC-tr-6961)
CHEMLOC-2 computer program for, description and listing of, 23:4269 (ANL-7361)
circuit description for proposed ALRR control safety system, 23:2066 (IS-1900, Paper 7)
cladding reactions following loss-of-coolant accidents, review on, 23:45991
codes and standards for reactors in U.S, 23:23941 (ORNL-NSIC-57)
coincidence circuit monitoring for, maintenance manual for Coincidence Matrix Monitor Model Q-2624 used for, 22:16937 (ORNL-TM-1638(Pt.24))
combustion of reactor materials, 21:14120
combustion rate of dispersed liquid sodium reactor coolant, effects of nitrogen—oxygen atmosphere on, 24:2004 (ANL-7575, pp 130-5)
committee activities for power, 24:7016
committee activities for power, 24:7017
committee activities on power, 24:7015
committee responsibilities for power, 24:7018
comparison of experimental and calculated analyses of, 25:54149 (A/CONF.49/P-477)
comparison with industrial safety, criteria for, 23:47145
component failure analyses for FFTF, preliminary fault tree, 23:37611 (BNWL-874)
computational techniques for reactor criticality safety, requirements and approximations for, 21:44827 (DP-MS-66-70)
computer programs and analytical models for assessing, 23:11255 (DP-1168)
computer programs for fast reactor, review of, 24:22439
conference on criticality, 21:17556 (SC-DC-67-1305)
considerations on early history of, 23:19511 (CONF-680909-, pp 1-5)
construction requirements for water-cooled power reactors, review of U.S. and Denmark, 23:31187
containment air particulate activity monitoring, alarm set point for, 21:30157 (NUS-TM-S-35)
containment concept for, description of subatmospheric pressure, 21:38495
containment data for, recording system codes for, 21:13950 (BNWL-CC-796)
containment design using ice to condense steam, 21:38767
containment filter charcoal ignition by fission products decay, 21:23727 (ORNL-TM-1739)
containment foam for accident-released noble gases, method for production of, 24:51238 (DUN-SA-141)
containment fog spray system reliability in N-reactor, 23:45123 (DUN-5890)
containment for gas-cooled heavy water-moderated reactor, cost and efficiency of, 21:42781
containment for large power reactors using offshore underwater caisson for, 21:34115 (ORNL-4073)
containment for spherically symmetric reactor systems, hydrodynamic analysis of, 21:30092 (ANL-7214)
containment integrity for, maintenance of, 21:46905
containment leakage rate measurements in CVTR, efficiency of system for continuous, 23:1979 (IDO-17273)
containment of accidental release of iodine-131 and methyl iodide, information review of performance of system for, 23:26057 (UJV-2114-Ch)
containment of accidentally released fission products, design of pressure equipment for, 21:46924(P)
containment of fission products during reactor accidents, 21:31918 (CONF-660904-Vol.1 and 2, pp 371-88)
containment of hydrogen—oxygen explosions in recombiner failures, 21:30989 (AERE-M-1471)
containment of large desalination reactor plants using evaporators, 21:21751 (ORNL-TM-1586)
containment of large offshore power reactors, feasibility of underwater caisson, 21:38511
containment shell loads in severe accidents, 21:14015
containment spray system effectiveness for fission product aerosol removal and pressure suppression, 23:43130(R) (BNWL-1084)
containment spray system effectiveness for fission product aerosol removal and pressure suppression, 23:52378(R) (BNWL-1187)
containment structure fabrication experience, 21:12169
containment structure inelastic response to high energy excursions, (T), 24:20643 (ANL-7499)
containment structure spray and pool sorption systems for pressurized-water and boiling reactors, development of high efficiency, 23:23940 (ORNL-4360)
containment structure vibrations, model analysis of earthquake actuated, 23:24033
containment structures for boiling and pressurized water reactors, test procedures for evaluation of protective coatings on, 23:19513 (IN-1253)
containment structures for reactors, analysis of required structural design criteria for secondary, 23:21575
containment system design and testing, 21:23659
containment system design parameters, current state-of-the-art of pressure suppression, 23:21569
containment system for atmospheric reactors, description of sub-atmospheric container with pressure relief valve-connected gas tight, 22:30401(P)
containment system leak rate for design basis accident in liquid metal-cooled fast breeder reactor, agglomeration modeling for effects of aerosol particle size on, 23:23938 (CONF-680821-, pp 330-4)
containment system moisture separator design and testing, 23:24017 (CONF-680821-, pp 56-64)
containment system pebble bed heat sink and bag filter cleanup system for FFTF, design parameters for, (T), 23:21517 (NYO-841-17)
containment system response to hypothetical maximum accidents in fast reactors, ASPRIN computer code for calculating, 24:16213 (BNWL-1166)
containment system strength estimation for, of nuclear power plants, 21:4385
containment systems criteria for large boiling water power reactors, 23:15564
containment systems for pressurized water reactors, design considerations for spray, 23:31172 (ORNL-TM-2412(Pt.1))
containment systems for water reactors, design of, 21:46905
containment systems research and development, 21:31903(R) (BNWL-CC-500)
containment systems testing methods, 21:19458(R) (BNWL-300)
containment systems, comparison of design characteristics for, 24:11219
containment vessel design for Phenix Fast Reactor, 21:35708 (DRP/ML/FAR R-187)
containment vessel for Elk River Power Reactor, suggested technical specification changes for, 21:23618 (SwRI-1228-P-4-29)
containment vessel leakage measurements at DR-3, 21:35724 (RISO-137)
containment vessel leakage, computer program for calculation of, 21:44888
containment vessel leakage, effects of temperature and pressure on, 23:4301(R) (BNWL-894)
containment vessel standards design for nuclear reactors, steel, 21:23669
containment vessel testing using acoustic emissions, 21:30285 (IDO-17230)
containment vessels for, effects of sudden compression of reactor coolant on, 21:27684(R) (IITRI-578-P-21-28)
containment vessels, standards development for air decontamination, 21:12258 (NYO-841-6)
containment vessels, standards for steel, 21:23669
control and instrumentation systems for, conference on, 21:2840
control and protection systems for, common mode failure considerations for design of, 23:9188
control of Hanford Production Reactors (N) reactivity, physics calculations and measurements for, 23:52438 (DUN-SA-120)
control of large loosely-coupled reactors, space-time effects on, 21:40550 (DUN-SA-35)
control of large reactor reactivity, physics calculations and measurements for, 23:52438 (DUN-SA-120)
control rod drive support for Big Rock Point Power Reactor, design requirements for, 23:26098
control rod drive system for PBF, fault tree analysis of transient, 23:9195 (IDO-17274)
control rod ejection accident analysis for power, accuracy of point kinetics method for, 24:11305
control system testing circuit, description of independent double coil actuating relay, 23:24053(P)
control systems for, at Kyoto University, 23:12063 (KURRI-TR-32)
control systems for, design specifications for, 21:40625
control systems of power reactors, instrumentation criteria and problems in, 23:1983
control systems to compensate for reactor power bursts, design of, 21:46923(P)
coolant accident in liquid sodium-cooled fast reactor, analytical methods for analysis of sodium fire during, (E/T), 23:13521 (AI-AEC-12721, pp 111-29)
coolant blowdown in Containment Systems Experiment simulator vessel, comparison of calculated and measured pressure and temperature transients for, 23:23935(R) (BNWL-1009)
coolant blowdown in pressurized-water reactors, Containment Systems Experiment simulation of, 23:9183(R) (BNWL-816)
coolant blowdown in simulated pressurized-water reactor, pressure transients for, 23:11252(R) (BNWL-926)
coolant blowdown in simulated pressurized-water reactor, pressure vessel pressure transients for 600°F and 2500 psi, 23:9182(R) (BNWL-754)
coolant blowdown in simulated reactor, Containment Systems Experimental simulation of, 23:11251(R) (BNWL-433)
coolant blowdown simulation tests, machine plotting of data from, 23:2053(R) (BNWL-885)
coolant blower failure in gas cooled reactors, transient processes following, (T), 23:52385(T) (JPRS-48330, pp 385-95)
coolant boiling behavior in sodium cooled fast reactors, (E), 23:28512 (EURFNR-626)
coolant boiling in liquid sodium cooled fast reactors, analysis of, (E), 24:22432 (RT/ING-(69)29)
coolant boiling in liquid sodium cooled reactors, SAS1A computer program calculations of, 24:47877 (ANL-7610, pp 259-367)
coolant combustion for LMFBR, test programs for liquid sodium spray, (E/T), 24:20545(R) (AI-AEC-12912)
coolant combustion in liquid sodium cooled reactor, effects on containment structure stresses of, 24:43787(T) (EURFNR-754)
coolant cross flow control system, design of emergency, 21:27779(P)
coolant dynamics of sodium-cooled systems, 21:12231(R) (ANL-7267)
coolant ejection in liquid sodium cooled breeder reactor, use of water to simulate, 24:13575(T) (EURFNR-656)
coolant ejection mechanisms for liquid metal-cooled fast breeder reactor, computer program models for analysis of, (T), 23:19515

coolant ejection of sodium cooled breeder, use of water for simulation of, 23:52388 (KFK-940)
coolant expulsion dynamics for liquid sodium cooled fast breeder reactors, nonmetallic fluid simulation of, (E), 24:38583
coolant flow blockage in water cooled reactors, effects on fuel assembly integrity of, 24:46070 (NEDO-10174)
coolant flow diverters for boiling reactors, description of fuel element-enclosing multiple split ring, 23:2045(P)
coolant flow effects on, study of partially confined nonmetallic fluids in rapidly heated tubes to determine, (E), 22:8293 (ANL-7337)
coolant flow instability effects on water-cooled reactors, 21:27714
coolant flow inversion transient from primary pump power loss in plate type research reactors, (T), 23:47245 (CNM-R-2(Vol.2), pp 709-25)
coolant flow loss accident in GTR at 10 MW, performance of afterheat removal system following, 21:38701
coolant flow phase effects on power, 21:25662
coolant loss accident analyses for light water power, evaluation of potential effects of metal—water reactions for, 23:43074
coolant loss accident analysis for, systems engineering approach to, 22:39774 (IDO-17272)
coolant loss accident conditions in 1000 MW(e) pressurized water reactor, description of semiscale blowdown and emergency core cooling test program for, (E), 24:43770 (IN-1384)
coolant loss accident conditions in gas cooled fast power reactors, analog computer simulation of, 24:46073
coolant loss accident conditions in pressurized water reactor, effects of 75 to 100 percent flow blockage on bottom flooding heat transfer for, (E), 24:43794 (WCAP-5353)
coolant loss accident conditions in pressurized water reactors, performance of single and multiple Zircaloy 4 tubes under, 24:33369
coolant loss accident conditions in pressurized water reactor, effects of core deformations on cooling system effectiveness during, (E), 24:38569 (CONF-700608-9)
coolant loss accident conditions in reactors, fuel rod cladding failures under, 24:33371
coolant loss accident conditions in water cooled reactors, effects of Zircaloy tube cladding deformation on coolant channel reduction for, 24:33370
coolant loss accident conditions in water cooled reactors, fuel element performance under, 24:33372
coolant loss accident effects on component supports in pressurized water reactors, 24:45847
coolant loss accident effects on core support structures in water cooled reactors, 24:45988
coolant loss accident effects on pipe bending in pressurized water reactor, 24:45848
coolant loss accident heat transfer in simulated boiling reactor, effects of core spray cooling on, 23:7392
coolant loss accident in Lucens plant, preliminary summary of, 23:34881
coolant loss accident in Lucens Reactor, description of and observations during rise to power, 23:34880
coolant loss accidents for water, effects of void fraction and residual water on, 23:4287
coolant loss accidents in BN-350 Reactor and BOR, description of emergency systems for, 23:25979(T) (ANL-Trans-744)
coolant loss accidents in boiling and pressurized water reactors, analytical description of, 24:7141(R) (BMI-1871)
coolant loss accidents in boiling water and pressurized water reactors, analytical description of, 23:45095(R) (BMI-1867)
coolant loss accidents in boiling water reactors, effects of fuel rod failures on performance of emergency core cooling system during, (E), 24:38556 (CONF-700608-6)
coolant loss accidents in boiling water reactors, effects of fuel rod failures on performance of emergency core cooling system during, (E), 24:38557 (CONF-700608-14)
coolant loss accidents in boiling water reactors, fuel rod deformation effects on performance of spray cooling system following, (E), 24:38581 (NEDG-13064)
coolant loss accidents in boiling water reactors, BWR—FLECHT tests of thermal and hydraulic phenomena from emergency coolant injection following, 24:38576 (IN-1385)
coolant loss accidents in boiling water reactors, heat transfer effectiveness of core bottom flooding system following, (E), 24:47868 (GEAP-10117)
coolant loss accidents in boiling water reactors, effectiveness of core spray heat transfer system following, (E/T), 24:47869 (GEAP-13086)
coolant loss accidents in Cabri Reactor, effects of, 23:9201 (TID-24857)
coolant loss accidents in LOFT ECCS, RELAPSE 3 and MOXY computer programs for heat transfer conditions during, 23:13540 (CONF-680832-5)
coolant loss accidents in pressurized water reactors, hydrogen gas generation in containment system following, 24:45989
coolant loss accidents in pressurized water reactors, containment spray additive systems for fission product removal following, 24:38555 (CONF-700608-4)
coolant loss accidents in pressurized water reactors, effects of fuel rod deformation on performance of emergency core cooling system during, (E), 24:38570 (CONF-700608-10)
coolant loss accidents in pressurized water reactors, simulated emergency flow effects following, 24:38577 (IN-1387)
coolant loss accidents in pressurized water reactors, dissolved gas effects on decompression forces from, 24:16214 (BNWL-SA-2746)
coolant loss accidents in pressurized water reactors, reactor internals stress and deflection from, (T), 24:38568 (BAW-10008(Pt.1)(Rev.1))
coolant loss accidents in pressurized water reactors, hydrogen production from radiolysis of containment spray solutions following, (E/T), 24:38571 (CONF-700608-12)
coolant loss accidents in pressurized-water reactors, digital computer program analysis of, (T), 23:23945
coolant loss accidents in reactors, FLASH-2 program for simulation of, 21:40581 (WAPD-TM-666)
coolant loss accidents in sodium cooled and water cooled reactors, shock waves and transient loading from chemical reactions following, 23:28507 (EUR-4101, pp 75-88)
coolant loss accidents in sodium cooled fast reactors, characteristics of aerosols from, 23:37562 (NYO-841-18)
coolant loss accidents in water cooled power reactors, critical flow condition during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in water cooled power reactors, rod bundle critical heat flux during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in water cooled power reactor, CHEMLOC 2 computer program analysis of, 24:2004 (ANL-7575, pp 130-5)
coolant loss accidents in water cooled reactors, analytical model development for, 24:33362 (IN-1382)
coolant loss accidents in water cooled reactors, analytical description of, 24:16211(R) (BMI-1877)
coolant loss accidents in water cooled reactors, analytical description of, 24:29034(R) (BMI-1881)
coolant loss accidents in water cooled reactors, analytical description of, 24:43783(R) (BMI-1885)
coolant loss accidents in water cooled reactors, analytical model development for, 24:33363 (IN-1383)
coolant loss accidents in water cooled reactors, BRUCH model for thermal and hydraulic processes during, 24:20593
coolant loss accidents in water cooled reactors, characteristics of, 24:33402
coolant loss accidents in water cooled reactors, description of flow pipe screen barriers for vaporizing water outflow from, 23:28494(P)
coolant loss accidents in water cooled reactors, depressurization and pressure wave propagation in, 23:28505 (EUR-4101, pp 9-22)
coolant loss accidents in water cooled reactors, effects of cladding materials and temperature on emergency cooling system performance following, (E), 24:38562 (NEDO-10179)
coolant loss accidents in water cooled reactors, effectiveness of emergency spray injection strategies during, (E), 24:46072 (WAPD-T-2222)
coolant loss accidents in water cooled reactors, heat transfer characteristics in bundle type fuel elements for, (E/T), 24:47884
coolant loss accidents in water cooled reactors, method for pressure suppression following, 24:4082(P)
coolant loss accidents in water cooled reactors, model for blowdown pressure and temperature transients during, 24:36053
coolant loss accidents in water cooled reactors, model for analysis of structural damage from, 24:36049 (IN-1362)
coolant loss accidents in water cooled reactors, probability analysis for, 24:50063
coolant loss accidents in water cooled reactors, pressure transients in reactor buildings during, (T), 24:38586
coolant loss accidents in water cooled reactors, subcooled blowdown forces on cooling system components from, (E/T), 24:36048 (IN-1354)
coolant loss accidents in water cooled reactors, violent phase change effects from depressurization in, (E/T), 24:29039
coolant loss accidents in water moderated power reactors, effects on fission product transport of, 24:36050 (IN-1380)
coolant loss accidents in water-cooled reactors, chemical and γ-radiation stability of sprays used in, 23:35167
coolant loss accidents in water-cooled reactors, metal—water reactions during, 23:9264
coolant loss accidents in water-cooled reactors, modified FLASH bubble rise velocity model for void fraction and residual water predictions during, (E/T), 23:15659 (WAPD-T-2155)
coolant loss accidents in water-cooled systems, depressurization and core heat transfer processes in, (E/T), 23:15653 (CONF-680832-6)
coolant loss accidents, analysis of radiolytic production of hydrogen during, 22:42160(R) (BMI-1844)
coolant loss accidents, calculation of metal—water reactions and core heating during, 21:46837 (ANL-7325, pp 136-78)
coolant loss accidents, computer program for calculating containment pressure-temperature response to, 21:40556 (IDO-17220)
coolant loss accidents, computer program for hydraulic and thermal analysis of reactor core channel, 22:22656 (BMI-1832)
coolant loss accidents, computer program for thermal analysis of, 21:40539 (BMI-1807)
coolant loss accidents, core response during, 22:39774 (IDO-17272)
coolant loss accidents, effects on emergency core cooling system performance of fuel element cladding failure following, 24:50128 (NEDO-10208)
coolant loss accidents, effects on emergency core cooling on peak temperatures of fuel element cladding during, 25:44140 (NEDO-10329(Suppl.1))
coolant loss accidents, primary system response during, 22:39774 (IDO-17272)
coolant loss conditions for pressurized water reactor, effects of dissolved nitrogen on decompression in, (E), 24:7160
coolant loss conditions for water-moderated reactors, analysis of radiolytic decomposition of water in, 23:28528
coolant loss conditions in FTR, effects of pipe rupture on, 23:26069(R) (BNWL-660)
coolant loss conditions in pressurized water power reactor, analysis of mass and energy distribution for, (T), 24:47881(R) (IN-1320)
coolant loss in 300 MW(e) liquid sodium cooled reactor, design analysis for, 21:46848 (EURFNR-368)
coolant loss in boiling reactors, BRUCH-S computer program for hydraulic stresses during, 23:33070
coolant loss in water cooled reactor, analysis of safety injection strategies during, (E), 24:7158
coolant outflow plug for reactor coolant loss, description of pressure controlled inflated bag, 22:44930(P)
coolant pipe rupture pressure release for, description of hydraulic water sprays from, 22:14338(P)
coolant piping rupture in water reactors, initiation and extent of, (E), 21:44959(R) (BMI-1813)
coolant reaction with water vapor in high temperature gas-cooled reactors, potential consequences of, 23:21506
coolant slug-type ejection from asymmetrically heated channels, dynamics of sodium, (E/T), 24:33393
coolant slug-type expulsion from fuel subassemblies, model for analysis of, 24:33392
coolant superheat and flashing in sodium-cooled reactors, analysis of, 21:46871(T) (EURFNR-353)
coolant—fuel reactions at high temperatures, laser heating studies of, 23:51037 (RD/B/N-1448)
coolant-loss accident analysis in power reactors, 21:21666
coolant-loss accident analysis in water-cooled reactors, description of FLASH-2 method for, 23:11260
coolant-loss accident analysis methods in light-water power reactors, 21:25664
coolant-loss accident simulation in ORNL Research Reactor, 21:25630(R) (ORNL-4071)
coolant-loss accident simulation in pressurized-water loops, (E/T), 21:21659
coolant-loss accident, analysis using ACT-I code, 21:30177 (WAPD-TM-693)
coolant-loss accidents in boiling water reactors, analysis by NURLOC computer code, 21:27665(R) (BMI-1797)
coolant-loss accidents in French swimming-pool reactors, tabulation of data on, 21:27817
coolant-loss accidents in power reactors, causes and countermeasures for, 21:42759
coolant-loss accidents in sodium cooled reactors, 21:23589(R) (ANL-7308)
coolant-loss accidents in sodium cooled reactors, filtration of airborne vapors in, 21:31924 (CONF-660904-Vol.1 and 2, pp 877-904)
coolant-loss accidents, reactivity calculations in light water cell following, 21:21622 (AECL-2649)
coolant-structure response to power bursts, analysis of, (T), 21:13947(R) (ANL-7286)
coolant-void prevention in liquid metal-cooled reactors, hydraulic counterflow brake for, 23:4483(P)
cooling circuit rupture in gas cooled reactors, transient processes following primary, (T), 23:52384(T) (JPRS-48330, pp 369-84)
cooling system cylindrical header failure in Babcock and Wilcox Test Reactor, revised procedure for, 23:26098
cooling system flaw detection in operating reactors, nondestructive method for, 21:38496
cooling system for fast reactor, analysis of boiling in liquid sodium, 23:4285
cooling system for gas-cooled heavy water-moderated power reactor, effects of scram conditions and main blower failures on dynamics of, 23:26042 (ZJE-34)
cooling system of integrated gas cooled power reactor, 23:28531
cooling system of water cooled and moderated power reactor, description of ASME inservice inspection code for, 23:31188
cooling system pumps for pressurized water reactor, failure characteristics of primary, 24:13556
cooling system rupture, effects of fatigue cracking on, 21:17449(R) (GEAP-5279)
cooling system temperature fluctuations in San Onofre Power Reactor Unit 1, effects of boiler tube design variations on, 23:26098
cooling systems for boiling reactors, performance of emergency, 21:15729
core behavior for accident conditions in fast reactors, 24:7168(R) (BNWL-1240)
core cooling system for power plants, digital computer for evaluating reliability of safety injection, 23:37431
core cooling systems for BWR power, depressurization performance of high pressure coolant injection, 24:18469 (APED-5447)
core cooling systems for, reliability analysis of emergency, 21:46904
core disassembly accidents in FFTF, calculations of sodium-in conditions for, 23:31194 (BNWL-760(Suppl.1))
core disintegration analysis during SNAP-10A reentry, (T), 21:1200 (NAA-SR-Memo-11847)
core failure for fast reactor, effects of coolant loss on, (T), 24:46075
core failure in 1000 MW(e) pressurized-water reactor, coolant flow requirements for, 23:4270(R) (BMI-1850)
core heat transfer—neutronics behavior in fast liquid sodium-cooled reactors, MELT-1 computer program for major excursion effects on, 23:13524 (BNWL-944)
core instrumentation of FFTF, requirements for accident-detecting, 23:4371
core loading analysis for, plastic deformation of cylindrical shells in, (T), 22:22653(R) (ANL-7419)
core meltdown excursions in liquid metal cooled fast reactors, effects on primary containment system of high energy, (T), 24:29033 (ANL-7498)
core meltdown in coolant loss accidents, heat transfer during, (T), 23:7420
core meltdown in fast power reactors, Bethe—Tait method analysis of second excursions following, 23:15655(T) (EURFNR-579)

core meltdown in fast reactors, Doppler and disassembly effects on energy release during, (T), 24:22484
core meltdown in fast reactors, fuel interaction with concrete floor following, (T), 24:46069 (BNWL-CC-2369)
core meltdown in fast reactors, fuel interaction with concrete following, (T), 24:33397
core meltdown in FTR, calculation of maximum energy release from cermet, metal alloy, mixed-carbide, and mixed-oxide, 23:21509 (APDA-208)
core meltdown in helium cooled fast breeder reactors following coolant loss accidents, analysis of, 24:50154 (CONF-700401-, pp 890-906)
core meltdown in sodium cooled fast reactors, simulation of heat transfer and pressure behavior following, 24:33367
core meltdown, fission product release from molten fuel mass following, (T), 24:38587
core spray cooling system for boiling water reactors, description of movable-nozzle emergency, 23:19503(P)
core spray cooling system for, cooling effects of, (E), 21:2841
core spray systems for, experimental evaluation of, 21:44843(R) (IDO-17239)
core test facility for analyses for, description of proposed, 22:32735 (ANL-7310, pp 249-375)
core-cooling systems for, reliability analysis of emergency, 21:46903
criteria for design of large fast-breeders, 21:7940
criteria for fast reactors, development of, 21:40531 (ANL-7290, pp 188-215)
criteria for fast sodium-cooled reactor design, 21:27673 (GEAP-4939)
criteria for seismic and faulting displacement for, 23:11116 (HN-189(Rev.))
criteria in Germany for, description of development of, 23:19446
critical heat flux for water cooled fuel element assembly, analysis of 150 to 725 psia, (E/T), 24:43789 (IN-1412)
criticality aspects of, review of, 21:40621
criticality hazards control for ZPPR fuel elements, description of, 23:4372
criticality studies for parts array of plutonium, effects of unit cell shape on, 23:4373
criticality studies for plutonium and uranium solutions, description of, 23:4368
criticality studies for plutonium and uranium systems, description of, 23:4369
criticality studies for, comparison of measurements and calculated values for, 21:46944 (IN-1120)
criticality studies on plutonium systems, description of Pacific Northwest Laboratory, 23:4370
data acquisition system for reliability analyses in, 25:37040 (IRS-T-18(1970), pp 123-43)
data processing system for, operation of CHORD-S, 23:52304 (CTC-INF-32(Rev.1))
deactivation of Sodium Reactor Experiment, procedures for, 23:13522 (AI-AEC-12721, pp 149-53)
decay heat cooling system capacity for Peach Bottom Reactor, during shutdown, 21:12132 (GAMD-5632)
decompression effects during blowdown, shock-tube simulation, 21:40557 (IITRI-578-P-21-29)
decontamination and decommissioning of Hallam Power Reactor Facility, 21:38460 (NAA-SR-Memo-12340(Rev.))
decontamination of containment system in, methods for, 21:27690 (ORNL-TM-1718)
deposition of radioactive materials on containment vessel walls, effects of geometry on, 21:14103(R) (ORO-3414-2)
derivation of space-dependent kinetics for coupled, use of vector matrices for, 21:40604
description of aspects of THTR, 23:21440
design alterations for Oyster Creek Power Reactor Unit 1, description of required, 23:49533
design characteristics for THTR, 23:11261
design characteristics of graphite moderated gas cooled power reactor, analysis of earthquake resistant, 23:37564
design criteria in Japan for liquid sodium cooled fast reactor, 23:47218 (ANL-7520(Pt.2), pp 67-76)
design features of SGHWR systems, review of, 23:13400
design features of sodium cooled fast power reactors, review of, 23:43140
design improvements in boiling water reactor systems for, 24:24695
design limits for power reactors, systematic analytical procedure for effects of seismic stresses on, 24:24773
design modifications of Saxton Reactor supercritical loop, 23:17224 (DOCKET-50146-24)
design of control system for marine reactors, 21:44914(P)
design of electronic safety trip device for, 21:10713(P)
design of equipment for emergency reactor shutdown, 21:44900(P)
design of fast breeder reactor for inherent, 21:40611
design of prestressed concrete reactor vessels for, requirements and features of, 23:2061
design of shutdown control system, 21:46990(P)
design parameters for conceptual 350 MW(e) Demonstration Fast Breeder Reactor, review of required, 24:7156
design parameters for power, probability method for optimum economic, 24:11217 (TRG-Report-1949)
design parameters for Vaertan Power Reactor, 23:28377
design requirements for fast breeder, 24:18693
design requirements for water-cooled power reactors, review of U.S. and Denmark, 23:31187
design standards for advanced power reactors, 24:50066
detection systems for, logic circuits for transient, 22:32961 (ANL-7310, pp 377-430)
development and use of CHORD-S information retrieval system for design of power, 23:21418 (ORNL-TM-2447)
development at Argonne National Laboratory, April and May 1970, 24:38470(R) (ANL-7688)
development at Argonne National Laboratory, August 1970, 24:52850(R) (ANL-7737)
development at Argonne National Laboratory, December 1969, 24:18581(R) (ANL-7655)
development at Argonne National Laboratory, February 1970, 24:24781(R) (ANL-7669)
development at Argonne National Laboratory, February 1971, 25:25957(R) (ANL-7783)
development at Argonne National Laboratory, January 1970, 24:18582(R) (ANL-7661)
development at Argonne National Laboratory, January 1971, 25:23231(R) (ANL-7776)
development at Argonne National Laboratory, July 1970, 24:45993(R) (ANL-7726)
development at Argonne National Laboratory, June 1970, 24:43686(R) (ANL-7705)
development at Argonne National Laboratory, March 1970, 24:28983(R) (ANL-7679)
development at Argonne National Laboratory, November 1970, 25:10164(R) (ANL-7758)
development at Argonne National Laboratory, October 1970, 25:8047(R) (ANL-7753)
development at Argonne National Laboratory, September 1970, 25:1848(R) (ANL-7742)
development in France, review of, 24:24865
development in France, review of, 24:24775
development in Japan, 22:18659
development of Argonne National Laboratory, December 1970, 25:15339 (ANL-7765)
development of criteria for power plants, 24:24866
development of power reactor, effects of fossil fuel power plant experience on, 24:22373
development of TSR-II control mechanism for operational, 21:35748
development of, coal industry briefing on, 21:17438 (CONF-660930)
development of, review of, 24:22440
development of, U. S. AEC water reactor safety program plan for, 24:22433 (WASH-1146)
development programs for boiling and pressurized-water reactors, review of, 23:26059
development, report to the President on, 21:19387 (TID-23729)
developments at Brookhaven National Laboratory during 1967, 22:39875 (BNL-50082, pp 1-18)
developments in AEC licensing functions as of 15 December 1966, 21:25691
developments in power and research reactors, review of, 23:26061
developments in, review of, 21:2837
diffusion membrane studies for rare gas separation, 21:7890 (ORNL-P-2531)
diffusion of radioactive molecules in containment vessels, 21:7969
dispersion of sodium oxide aerosols from fast reactor accident, 21:43552 (BNL-50068)
dry-out margins for superheating heavy water moderated boiling power, analysis of optimum economic, 23:37563 (RD/B/N-1285)
dynamics calculation methods for evaluation of, review of, 23:43191 (CONF-670846-, pp 95-135)
earthquake effects on, 24:39092 (ORNL-4446, pp 23-5)
earthquake effects on building and systems for power plants, response spectrum method for calculating, 23:37436
earthquake resistance of power plant components, conservatism in design criteria for, 23:33064 (DUN-SA-83)
earthquake resistance of reinforced concrete containment structures for water cooled reactors, recommended allowable shear stresses in membranes for, 24:11216 (SWND-5)
earthquake resistance studies in Japan for power reactors, review of, 23:11262
earthquake resistant design criteria for power plants, 23:32974 (CONF-681101-35)
earthquake resistant design requirements for U.S. power, 23:49578
earthquake resistant designs for, basic factors in, 22:53283(T) (ORNL-tr-1940)
earthquake resistant designs for, detailed analysis of, 22:37440 (HN-192)
earthquake-proof characteristics of AGR design, 22:3854
earthquake-resistant design of nuclear facilities, IAEA panel recommendations on, 23:52390 (STI/DOC-10/88)
earthquake-resistant design of nuclear power plants, 23:4291
earthquake-resistant reactor design for, functional and economic evaluation of, 23:2055 (KE-68-4)
economic aspects of site selection and engineered safety features of large dual-purpose power and desalination plants, 23:28593(R) (ORNL-4409)
economics of, 21:40620
effect of earthquakes on, 21:4640 (AECL-2597)
effects of coolant boiling in liquid sodium cooled fast reactors, 23:47215 (ANL-7520(Pt.1), pp 12-16)
effects of coolant critical flow on, 22:1820
effects of double reactor containers on, 21:12170
effects of earthquakes on, 23:9681 (ORNL-4316, pp 1-69)
effects of integrated primary cooling system design in EDF-4 on, analysis of, 23:1988
effects of nuclear data accuracy on superheating fast power, 24:9133 (KFK-1045)
effects of plant engineered safeguard reliability on, 21:21675
effluent control at USSR power reactors, 21:12160
effluent of Windscale Advanced Gas-Cooled Reactor, analysis of human exposure from, 23:6018
electric power systems for emergency and operational demands of pressurized-water reactors, 21:40642
electrical circuits for, standards for, 21:38595
electromagnets for lifting control elements, design and testing of one and three coil coincidence, (E/T), 23:33121 (ORNL-TM-2572)
emergency aftercooling equipment performance following A-1 reactor gas circulator failures, 23:40292
emergency coolants for, descriptions of single-rod and multi-rod test apparatus for, 23:4276(R) (SNE-46)
emergency coolants for, results of screening tests for additives to, 23:4276(R) (SNE-46)
emergency core coolants for water-cooled power reactor, enhanced cooling effects of chemical additive aqueous solutions in, 23:28492 (SNE-50)
emergency core cooling for boiling water, results of tests on bottom entry flooding, 23:4273 (IDO-17278)
emergency core cooling for, description of photographic studies for fluid flow and heat transfer during, 23:37571
emergency core cooling for, effects of molten fuel on requirements for, 23:37572
emergency core cooling system for boiling reactor, effects of fuel rod failures on design requirements of, 24:33375
emergency core cooling system for boiling reactor, effects of fuel rod failures on performance of, 24:33374
emergency core cooling system for pressurized water reactors, effects of fuel cladding deformation and swelling on performance of, 24:36038 (CONF-700608-11)
emergency core cooling system for pressurized water reactors, effects of fuel element failures on performance of, 24:33376
emergency core cooling system for pressurized water reactors, effects of fuel element failures on heat transfer performance of, 24:33377
emergency core cooling system for pressurized water reactors, effects of fuel element failures on heat transfer performance of, 24:33378
emergency core cooling system for pressurized water reactor, FLECHT simulated coolant loss accident testing of, (E), 24:29036 (IN-1386)
emergency core cooling system for pressurized water power reactors, effects of partial core blockage on performance of, (E), 24:47881(R) (IN-1320)
emergency core cooling system for water cooled reactors, effects of Zircaloy cladding swelling on performance of, (T), 24:36045 (CONF-700608-8)
emergency core cooling system for water cooled reactors, design of pressurized, 24:16223(P)
emergency core cooling system for water cooled reactors, probability analysis for, 24:50064
emergency core cooling system for water cooled reactors, effects of Zircaloy tube swelling on performance of, 24:33373
emergency core cooling system for water cooled, SECHT 3 testing program for optimum, (E), 24:20578 (IN-1355)
emergency core cooling system of high temperature gas cooled power reactor, description of ventilated turbine system for, 24:13555
Emergency Core Cooling Systems for, design parameters and analyses for, 23:4274 (ORNL-NSIC-24)
emergency power systems for power reactors, reliability testing of fast starting auxiliary diesel, 23:31171 (CONF-690113-7)
emergency power units for power reactors, testing of diesel-electric, 23:2047
emergency procedures for nuclear and non-nuclear incidents at BONUS, 21:40573 (PRWRA-113)
emergency procedures in U.K. for power, 23:34945 (CONF-680625-8)
emergency procedures manual for Hanford facilities, 23:23994 (DUN-M-2)
emergency shutdown of reactor, description of three stage, 23:43214(P)
emergency spray cooling system for boiling and pressurized-water reactor, effectiveness of coolant-loss accident, (E/T), 23:2049
emergency spray cooling system for reactor containment structures, with pressure actuated overhead nozzle, 23:49673(P)
engineered safeguards development by Israel Atomic Energy Commission, 24:13576 (IA-1190, pp 257-70)
engineered safeguards effects on coolant loss accidents, 22:39774 (IDO-17272)
engineered safeguards for power reactor, review of, 23:37382 (NP-17851, pp 101-26)
engineered safeguards for power reactors, STRAP computer program for performance analysis of, 24:22427(R) (IDO-17303)
engineered safeguards for water cooled reactors, Scalbatraio Center programs for development of, 24:43784 (CONF-700608-13)
engineered safeguards for, design basis for, 24:33282
engineered safeguards of heavy water moderated boiling reactors, design requirements for, 24:20584
engineered safeguards systems analysis for, (E/T), 24:36044(R) (BNWL-1315-2)
engineered safety features for light water power, air-cleaning methods as, 23:9189
engineers for, systems engineering approach to education of, 22:12062
environmental problems in power reactor siting, 24:13583
equipment and inspections for EBOR, 21:7868(R) (GA-7318)
equipment for power reactors, 21:23697(P)
errors in criteria for analysis of power, 23:45026
evaluation and siting policy in the U.K., summary of, 24:13504
evaluation in HWOCR, 21:23610 (ORNL-3921)
evaluation methods for, state-of-the-art review of, 25:51139 (NP-18987)
evaluation of 1000-MW(e) coupled-core fast reactor designs, 21:17459 (NAA-SR-11378(Vol.1))
evaluation of benefits versus risks of power, 24:11150
evaluation of fast, 23:9187
evaluation of FR-2 fuel burnup loop, 21:14079 (KFK-397)

evaluation of Humboldt Bay Power Reactor, USAEC Division of Reactor Licensing, 23:19402 (DOCKET-50133-2)
evaluation of Piqua Power Reactor core and control rod drive modifications for restart operation, 23:28363 (NAA-SR-12516)
evaluation of plutonium heterogeneity effect on fast reactors, 21:23598(R) (EURFNR-268)
evaluation of U.K. power plants, use of probability analysis for, 23:37365 (CONF-681129-1)
evaluation of Yankee Power Reactor, 23:40234 (DOCKET-50029-85)
evaluation of, acceptable risk concept for, 25:56983 (NP-18992)
evaluation of, design and operation factors in, 25:48292
evaluation of, review of trends in principles for, 24:24776
excursion analyses for boiling water power, control rod withdrawal patterns and worth distributions for, 23:47222 (APED-5528)
excursion analyses for fast and thermal, use of quasistatic method for space-dependent, 23:28609
excursion analyses for, effects of fuel element rupture on, 22:5981
excursion analyses for, effects of short time delays in temperature feedback for superprompt-critical, 24:16164
excursion analysis for fast, effects of short delay time in reactivity feedback on superprompt-critical, 24:7327
excursion analysis for, analysis of delayed neutron effects for self-limiting, 23:37638
excursion analysis in small test reactors, effects of different fuel types, 21:38690
excursion analysis using nonlinear differential equations, 21:30201
excursion analysis, range of validity study on Hansen-Fuchs model for, 21:38568
excursion calculation for fast, use of temperature-density dependent equations of state for, 24:7149
excursion calculations for, eigenfunction expansion method for, 22:5999
excursion calculations for, use of hydrodynamic equations for determining containment response for high energy, 24:7150
excursions analysis for fast, use of computerized time-step control for coupling of dynamics models for, 23:40425 (CONF-690401-, pp 30-50)
excursions caused by shock wave generation, estimate of magnitude of, 22:5972
excursions in cylindrical two zone fast reactor cores, FAUN-Z code for severe, 24:16216 (KFK-1044)
excursions in fast power reactor, Bethe-Tait-Method for analysis of second, (T), 23:11257 (KFK-813)
excursions in fast reactor cores, FAUN-Z code for severe, 24:22425(T) (EURFNR-703)
excursions in fast reactors, EEM computer program for energy release analysis of superprompt critical, 23:19509 (AE-347)
excursions in fast reactors, effects of liquid sodium coolant on, 23:4284
excursions in fast reactors, effects on vessel cover design of disassembly, (T), 24:33398
excursions in fast reactors, MARS code for energy release in, 24:33389
excursions in fast reactors, method for analysis of disassembly, 24:33391
excursions in fast reactors, work energy from sodium vapor explosion in disruptive, (T), 24:33396
excursions in French reactors, simulation of, 21:27717
excursions in large modular core of fast-thermal reactor, space-dependent effects on, 21:40613
excursions in reactors, effects on coolant expulsions and pressure pulses of, (T), 23:19564 (ANL-7502)
excursions in sodium cooled fast power reactors, SPES-1 code for analysis of prompt critical uncontrolled, 23:23944 (RT/FI-(68)45)
excursions in water-cooled and -moderated reactor, analysis of self-limiting power, (E/T), 23:13547
excursions in water-moderated reactor, HYDRAX computer program for energy release from, 23:21504 (IDO-17275)
excursions of homogeneous reactors, calculations for prompt, 21:30204
excursions of water cooled power reactors, self control of boiling in, (T), 24:43719 (RT/FI-(70)2)
excursions, spatial distribution of energy released in, 21:38566
experience at selected U. S. reactors, 21:30144 (HN-185(Vol.1))
experience at selected U. S. reactors, 21:30145 (HN-185(Vol.2))
experience in U. K. of power reactor operation, 24:22363
experimental facilities for FR2 reactor, description of helium-cooled cold neutron source in R3 horizontal hole, 23:7402 (KFK-818)
explosive design for simulated reactor runaway experiments, 21:46928(P)
failure analyses of safety rod guide tubes in HWCTR, 21:32011 (DP-1077)
failure data handbook for liquid metal cooled power and research reactors, 24:22428 (LMEC-Memo-69-7(Vol.1))
failure data on liquid metal cooled power and research reactors, handbook on, 24:22429 (LMEC-Memo-69-7(Vol.2))
failure detection methods in France for gas- and sodium-cooled fuel elements, 23:13447 (NP-17751)
failure mechanisms of Dungeness B Reactor prestressed concrete pressure vessels, ultimate load analysis of, 23:11137
failure modes of boiling and pressurized-water reactor Zircaloy 2 clad fuel rods, effects of coolant loss conditions on, 23:26048 (ORNL-TM-2548)
failure rate data for, VARO computer program for calculation of, 23:26058
failure rate probability for, mathematical model for determination of, 23:40377(T) (BNWL-tr-29)
failures in complicated reactors, analog and digital computer simulation of system, 23:2136
fast reactor meltdown accident analysis code PREAX, 21:30091(R) (ANL-7210)
fault analysis for power reactors, comparison with other methods of, 24:50057
fault analysis of gas cooled power, statistical model for, 24:5537
filter banks testing at ALRR, 21:1207 (IS-1425)
filter system efficiency for aerosol removal in accident environments, 21:19383 (ORNL-TM-1707)
filters for radioiodine removal, performance of charcoal, 21:35617
fire intrusion and heat effects on air filter units, (E), 21:31913 (CONF-660904-Vol.1 and 2, pp 96-105)
fire protection practice for, 25:37050
fire protection practice for, 25:37048
fission gas removal and containment system for Maritime Pressurized-Water Reactor, engineering details and design criteria for, 23:2097 (TID-24753)
fission gas removal and containment system for Maritime Pressurized-Water Reactor, calculations for conceptual, 23:2098 (TID-24753(App.))
fission product adsorption by amine containing polymers during coolant loss accidents, 24:18685 (BMI-1874)
fission product aerosol activity release in sodium-cooled fast breeder accidents, Karlsruhe research program on, 23:2056 (KFK-798)
fission product aerosol concentration in containment structure of water-cooled reactor, analysis of particle formation, mechanics, and surface chemistry for severe accident, (T), 23:15657 (ORNL-4337)
fission product aerosol removal from containment systems, effectiveness of spray systems for, 23:11251(R) (BNWL-433)
fission product aerosol removal from containment systems, effectiveness of spray systems for, 23:9183(R) (BNWL-816)
fission product aerosol simulation, comparison of methods for, 23:37595
fission product behavior bibliography, 21:30148 (IDO-17237)
fission product behavior in containment system, 21:27690 (ORNL-TM-1718)
fission product behavior in coolant during normal operation of LMFBR, analysis of, (E/T), 23:13520 (AI-AEC-12721, pp 83-109)
fission product behavior in Nuclear Safety Pilot Plant tests, 21:15661 (ORNL-TM-1698)
fission product behavior in sodium coolant, 21:38514
fission product behavior in sodium cooled reactor atmospheres following explosive sodium oxidation, 23:47217 (ANL-7520(Pt.1), pp 555-61)
fission product behavior in swimming-pool reactor accidents, 21:27813
fission product behavior under high-temperature gas-cooled reactor accident conditions, 21:38463(R) (ORNL-4133)
fission product behavior under simulated coolant-loss accident conditions, 23:23939 (IN-1172)
fission product containment in accidents, design of expansion vessel for, 21:8001(P)
fission product containment under accident conditions, comparison of simulated and radioactive aerosol behavior, 21:38700
fission product deposition behavior, effects of containment system size on radioiodine, 21:38756
fission product deposition in accidents, mechanisms of, 21:15642(R) (BMI-X-10179)
fission product deposition in reactors, effect of containment system size on, (E/T), 21:13983 (ORNL-4033)
fission product deposition on primary system surfaces during coolant loss accidents in water cooled reactors, 23:33061 (BMI-1863)
fission product deposition on systems surfaces during coolant loss accidents in water cooled reactors, 23:33062 (BMI-X-10244)
fission product deposition on systems surfaces during coolant loss accidents in water cooled reactors, 23:33063(R) (BMI-X-10252)
fission product dispersions to environment from reactor failures, computer programs for, 23:4288
fission product distribution following nuclear incident, analysis of, 21:42731 (ORNL-TM-1899)
fission product distribution from failed Zircaloy-clad uranium oxide (UO_2) fuel elements, effects of ECCS on, 23:17205(R) (BMI-1856)
fission product distribution in containment atmosphere, detection by low-pressure cascade impactor, 21:36151
fission product filtration after accidents, efficiency of system for, (E), 21:12147 (NYO-3250-6)
fission product formation under accident conditions, chemical equilibrium studies of organic iodide, 21:25630(R) (ORNL-4071)
fission product identification and transport in power reactors, 21:40571(R) (ORNL-TM-1913)
fission product inventory in event of accident, 21:34141
fission product iodine removal by containment air cleaning system activated carbon beds, effect of γ radiation on, 23:23937 (CONF-680821-, pp 204-26)
fission product iodine transport in containment vessels for, natural convection model for predicting elemental, 23:4279
fission product release and sodium fire characterization during coolant-loss accidents, 21:40564(R) (NAA-SR-12395)
fission product release and transport in liquid metal-cooled fast breeder power reactor, state-of-the-art review of, 23:19514 (ORNL-NSIC-37)
fission product release characteristics and consequences, conference on, 25:31602
fission product release from centermelt failure of Big Rock Point Power Reactor fuel elements, 23:49513 (GEAP-10039)
fission product release from NERVA/ROVER fuel irradiated in seawater, 21:2869 (USNRDL-TR-1046)
fission product release from overheated bonded uranium carbide (UC_2) fuel in simulated HTGR coolant loss accidents, (E), 23:17234 (ORNL-TM-2388)
fission product release from reactor accidents, 21:30175 (WAPD-TM-599)
fission product release from SNAPTRAN-2 destructive excursion, radiological aspects of, 23:13555
fission product release from sodium fires, test programs for, 23:23950 (AI-AEC-12744, pp 31-51)
fission product release from uranium-metal fuels in production reactors, 21:38737
fission product release in accidents, analysis of iodine, 21:27706
fission product release in coolant-loss accidents, boundary-layer diffusion model of, 22:48792
fission product release in Fermi fuel meltdown, analysis of extent of, 21:38516
fission product release in gas-cooled, sodium-cooled, and water-cooled reactor accidents, 21:35701(R) (BNL-50023)
fission product release in simulated NPR loss-of-coolant accident, 21:8117 (HW-70652)
fission product release safeguards, 21:35611
fission product release suppression methods, for accidents, 21:10170
fission product release under normal and accident operating conditions, review of analytical methods for, 23:52383 (IDO-17292)
fission product releases from coolant loss accidents, analysis of volatile, 24:26794 (SZS-15/69)
fission product releases from destructive excursions of SNAP-10A/2, effects of air and water environment on, 23:13554
fission product removal from air—steam mixtures, effects of condensation on, (T), 23:4451
fission product removal from containment atmospheres, use of hydrazine for methyl iodide, 21:25618 (BNWL-SA-821)
fission product removal from containment atmospheres, effects of drop size on effectiveness of sprays for, (T), 24:41035 (CONF-700608-5)
fission product removal from containment atmospheres, effectiveness of recirculating filter system for, 23:23927 (CONF-680821-, pp 27-54)
fission product removal from containment atmospheres, efficiency of reactive solutions for iodine and methyl iodide, 23:43134 (ORNL-TM-2412(Pt.2))
fission product removal from containment systems for, computer program for calculating iodine, 21:44852 (ORNL-TM-1911)
fission product removal from containment systems, review of air cleaning systems for, 23:23926 (CONF-680821-, pp 13-26)
fission product removal from reactor buildings, use of activated charcoal filters for iodine, 22:50872
fission product removal from reactor containment, effectiveness of reactive foams for iodine and methyl iodide, 23:2059 (NYO-841-14)
fission product removal under accident conditions, efficiency of charcoal filter for, (E), 24:4081
fission product transport by natural processes in containment vessels, time-dependent, (E/T), 23:15652 (BNWL-943)
fission product transport from vapor—noncondensable gas mixtures to containment vessel walls, effects of condensation on, (T), 23:15666
fission product vaporization from sodium-coolant systems, (E/T), 23:11190 (BNL-13099)
fission product yields and decay energy release from plutonium-239 fast fission and uranium-235 thermal fission, (E/T), 23:4447 (LA-3954)
fission products in ZPR-6 and ZPR-9, GASOUT computer program for design basis accident release of gaseous, 24:29040 (ANL-7534)
fission products released by accidents, behavior and trapping of, (E/T), 24:11208 (BNL-14242)
fission-product gas removal from containment vessel by permselective membranes, 21:27692 (ORNL-TM-1822)
fission-product transport and deposition studies for containment systems, 21:38439(R) (BMI-X-10193)
flowdown of boiling reactor, simulation for up to 30 psig, (E), 24:5535(T) (NP-tr-1865)
fog spray spacing for contamination confinement, 21:5617 (HW-60726)
French studies on, outline of, 22:14176
fuel assembly temperature transient in EWA-2 and EWA-4, effects of coolant loss and ramp reactivity on, 24:4090 (INR-1090)
fuel cladding failures in gas-cooled reactor, description of multiple delayed neutron detectors and electrostatic collectors for detection of, 23:9185(P)
fuel element behavior during Fast Ceramic Reactor transients, 23:43115(R) (GEAP-5753)
fuel element behavior during Fast Ceramic Reactor transients, 23:43116(R) (GEAP-10028)
fuel element behavior during Fast Ceramic Reactor transients, 23:37507(R) (GEAP-5700)
fuel element behavior during Fast Ceramic Reactor transients, 23:37506(R) (GEAP-5677)
fuel element deformation during transients, computer program for analysis of, 21:40537 (ANL-7349, pp 115-33)
fuel element failure detection in Elk River Power Reactor, development of dry sipping technique for, 23:11122 (NUS-TM-ES-5)
fuel element failure detection systems for liquid metal cooled fast breeder power reactors, use of delayed neutron monitoring for, 23:31179 (ANL-7533)
fuel element failure in fast reactor, TREAT simulation of zero-burnup plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type, 23:4224
fuel element failure in water cooled reactors, effects of coolant loss accident conditions on Zircaloy clad, (E), 24:36046 (CONF-700608-15)

fuel element failure in water cooled reactors, effects of coolant loss conditions on Zircaloy 2 uranium oxide (UO_2) pellet type on, 24:2004 (ANL-7575, pp 130-5)
fuel element failure, release of fission products from, 21:40592
fuel element failure, review of detection and location techniques for, 23:31242
fuel element performance effects on, 21:2899
fuel irradiation experiments in Fermi Fast Breeder Reactor for, 21:42727 (KFK-586)
fuel meltdown at Fermi Fast Breeder Reactor, 21:30156 (NP-16750)
fuel meltdown in coolant loss accidents, size classification of aerosols released during, 23:24027 (CONF-680821-, pp 263-311)
fuel meltdown in KW Hanford Production Reactor, recovery procedures and damage analysis for, 23:52436 (DUN-SA-112)
fuel meltdown in TREAT Mark 2 loop, development of annular linear induction pumps for, 23:4354
fuel meltdown, effects of time and temperature on fission product behavior in uranium oxide (UO_2), 23:4364
fuel pin bond failure in EBR-2, survival analysis for TREAT simulation of, 23:4225
fuel pin bond failure in EBR-2, transient behavior of TREAT simulation of, 23:4226
fuel reactions following loss-of-coolant accidents, review on, 23:45989
fuel storage pool for boiling water reactor, effects of tornado damage on spent, (E/T), 23:43129 (APED-5696)
fuel-flow restrictor screens for fast reactor melted fuels, testing of metallic and ceramic, 23:4263
functions of OECD Committee on, description of, 23:33072
gamma doses to environment from accidents, effects of meteorological conditions on, 24:22423(R) (BNWL-1315-1)
gaseous effluent studies for, 21:31903(R) (BNWL-CC-500)
hazard estimates for insurance rates, 21:25623 (EUR-3078.f)
hazards analyses of PRTR, 21:27799 (HW-61236(Suppl.7))
hazards analysis and control in, review of developments in, 22:53393
hazards analysis and control in, review of developments in, 24:13579
hazards analysis and control in, technical progress review on, 22:20854
hazards analysis for 2600-liter cores for ZPR-6 and ZPR-9, 21:8034 (ANL-6271(Add.))
hazards analysis for Brookhaven Chemonuclear In-Pile Research Loop, 23:7394 (BNL-13001)
hazards analysis for β radioactive aerosols in reactor environs, 23:38588
hazards analysis for HTGR-type critical assembly, 21:14071 (GA-6452(Rev.2))
hazards analysis for manned and unmanned Nuclear Auxiliary Power Systems, effects of aerospace mission characteristics on, 23:21534 (NP-17783)
hazards analysis for Nuclear Test Gage, 23:21515 (GEMP-663)
hazards analysis for PELINDUNA-0 critical facility, 23:4318 (PEL-170)
hazards analysis for PM-type cores, 21:17450 (HIT-3583-43(Vol.1))
hazards analysis of Hanford Test Reactor, 21:19462 (HW-80600)
hazards analysis of Malibu Unit No. 1, 21:12148(R) (NYO-3266-1)
hazards analysis of P122 folded-flow radial air gaps mockup, 21:19456 (APEX-537)
hazards analysis of SRE, preoperational, 21:42785
hazards analysis of stored energy distribution in MTR graphite pebble bed reflector, 23:2064 (IN-1248)
hazards analysis of tungsten nuclear rocket critical facility, 21:21801 (GA-5846(Rev.))
hazards analysis using STREAK code, 21:23721 (NP-16480)
hazards evaluation for power reactors, probability technique of, 24:24777
hazards evaluation methods for radioiodine release to population surrounding large power reactors, (T), 23:28501 (AHSB(S)R-159)
hazards from hypothetical accidents, analysis of environmental, 21:7880 (IA-1082, pp 217-34)
hazards of CEND Critical Facility Experiments for BONUS, analysis of, 21:32007 (CEND-105(Suppl.2))
hazards of U.S. nuclear power plants, benefits versus risks evaluation of, 24:33217
hazards review of PM-3A experience and modifications, 21:12214 (MND-3315-1)
hazards summary for NERVA testing in Plum Brook facility, 21:12238 (N-66-23840)
hazards summary report on BONUS, final, 21:12154 (PRWRA-GNEC-5(Rev.))
hazards to public from power reactor operation, 21:15703
heat exchanger operation, analysis of high temperature graphite moderated gas cooled power reactor, 23:37490
heat exchanger system design, 21:23677(P)
heat transfer properties of fuel elements, effects of repeated ECCS flooding on, 23:37573
high energy excursions in fast reactors, numerical method for inelastic response of containment systems to, 24:43796
high energy excursions in fast reactors, numerical method for two-dimensional hydrodynamic response of containment systems to, 24:43795
hot channel factors for liquid sodium cooled fast breeder, statistical method for analysis of, (T), 24:18616 (KFK-964, Sect. 6.1-13)
human error effects on reactor operation reliability, analysis of, (T), 23:15656 (HN-194)
hydraulic systems, FLASH-4 computer program for analysis of transients in, 24:5536 (WAPD-TM-840)
hydrodynamic aspects of accident conditions, use of computer codes for analysis of, (E/T), 25:57102
ignition temperatures of charcoal filter material in air, 21:14121
improvement in, use of non-1/V absorber material in fuels for, 21:23678(P)
incident collection, evaluation, and dissemination for, procedure for, 21:2839
incidents in boiling water, pressurized water, gas liquid metal, and fused salt cooled reactors, bibliography on, 24:43682 (ORNL-NSIC-69)
incidents involving, compilation of 1966, 22:22751
incidents related to, February-March 1969 summary of, 23:33076
index to Nuclear Safety TPR, Vols. 1 to 8, 22:16158 (ORNL-NSIC-41)
index to Nuclear Safety, Vol. 1 through 7, 21:10875 (ORNL-NSIC-31)
information center for, description of operation and functioning of, 23:37599
information in, handling at Nuclear Safety Information Center, 21:15821
information on, thesaurus for use in retrieval of, 21:38464 (ORNL-NSIC-35)
information operations at Nuclear Safety Information Center on, summary of, 22:50842 (ORNL-NSIC-46)
information storage for, description of CHORD-S data bank system for, 22:20909(R) (ORNL-TM-2095)
information system on, development of CHORD-S, 24:43860 (ORNL-TM-2928)
inspection of AGR while loaded, 21:38610
inspection of Elk River Power Reactor pressure vessel after 2 years operation, ultrasonic, 21:44857 (SwRI-1228-P-9-13)
inspection of Peach Bottom Power Reactor Unit 1 fuel elements, control elements, and reflector elements, analysis of 150 full-power day γ scan and visual, 23:15554 (GAMD-8703)
instrumentation and circuits for, summary description of, 23:26053
instrumentation for, 21:358
instrumentation for FFTF fuel elements, minimum requirements for, 23:15674 (BNWL-CC-1012)
instrumentation for FFTF, evaluation of, 21:35704 (BNWL-SA-1332)
instrumentation for power plants, method for reliability evaluation of, 23:37433
instrumentation for, design of geophysical and seismological, 22:19221
instrumentation for, factor against film boiling at SRP, 21:15782
instrumentation system requirements for fast burst reactors, survey of, 24:11251 (CONF-690102-, pp 455-68)
instrumentation systems in boiling and pressurized water power reactors, design comparisons of protection, 24:22374
iodine contamination from water-cooled reactors, 21:34245 (CEA-R-3199)
iodine filters, testing at HFIR, 21:7896 (ORNL-TM-1677)
iodine released in water-cooled-reactor accidents, development of containment vessel coatings for adsorption of fission product, 23:34888
iodine removal after accidents, filter design for, 21:6118
iodine removal from containment vessel air, 21:12149 (ORNL-4040)
irradiation capsule explosion in Cornell University TRIGA reactor, 23:26098
irradiation capsule failure in High-Flux Reactor (Nederland), 23:26098
journal on, dated summer 1967, 21:40618
kinetics analyses for fast sodium-cooled, space-dependent, 21:38457(R) (GEAP-5491)
kinetics analysis for fast sodium cooled reactors, 23:37444(R) (ANL-7577)
kinetics equations for, description of MOVER program for solution to one-group space independent excursion, 22:33086 (ANL-7310, pp 431-511)
kinetics of heterogeneous water reactors, 21:7897(R) (STL-372-30)
kinetics of large, fast-reactors, 21:27698
leak rate testing of PRTR containment vessels, 21:44933 (BNWL-504)
legal aspects and controls for accident prevention in power reactors, review of, 23:15529(T) (ANL-Trans-712)
legal aspects in Netherlands for, review of, 24:20583
legal aspects in U. S. of power and research reactors, review as of February 1970, 24:22377
legal aspects of, 21:30226
legal aspects of predicted earthquakes, 23:26060
license applications for boiling and pressurized-water power reactors, comparison of USAEC required supplementary information during, 23:26009
licensing of power reactors, comparison of procedures for worldwide, 23:33013
licensing requirements in U.S, 24:11160
loss-of-coolant accident analysis, CHEMLOC-I program for, 21:12231(R) (ANL-7267)
maintenance and operation procedures for Elk River Power Reactor, 21:46861(R) (NUS-401)
maintenance of radioactive MSRE components, 21:7924
maintenance of reactors, development of program for optimum preventive, 23:33116 (DUN-SA-109)
marine, role of Coast Guard in, 21:15748
mathematical analysis of steam-graphite reactions, 21:25630(R) (ORNL-4071)
mathematical model for determining effects of destructive phenomena from reactor accidents, 23:26056 (RT/ING-(68)18)
meltdown accidents in power reactors, in-core pressures from, 21:40575(R) (STL-372-50)
meltdown in weakly coupled cores, mathematical model for coupled core time-lag kinetics of, 23:28535
meltdown of irradiated metallic fast-reactor fuel in inert-gas atmosphere, (E), 21:34124
meltdown studies on clad-urania fuels in water reactors, 21:7967
metal—water reactions during loss-of-coolant accidents, 21:5598 (ANL-7125, pp 150-99)
metal—water reactions in coolant-loss accidents, 21:30305
metal-water reaction from small leaks in sodium coolant loops, 21:35564(R) (APDA-193)
meteorological program for, at Savannah River, 21:41061 (DP-MS-67-68)
methods for AVR, 21:12164
methods for Marviken station, 21:46893
model of nuclear excursion followed by metal—water reaction, 21:21755(R) (ANL-7302)
model simulation of advanced gas-cooled reactor for validity of, 23:15660
model study for nuclear ship collisions, 21:42790
modifications in BSR for 2 MW operation, description of, 23:6023 (ORNL-TM-2231)
modules and electronic control circuits for, 21:2897 (TRG-Report-933(Pt.2))
monitoring aerosol effluent of GTR, equipment for, 21:35726
monitoring of effluents from ORNL research reactors, development of, 21:31920 (CONF-660904-Vol.1 and 2, pp 586-611)
monthly progress report on, Argonne National Laboratory, 22:42158(R) (ANL-7460)
monthly progress report on, Argonne National Laboratory, 23:4164(R) (ANL-7478)
monthly progress report on, Argonne National Laboratory, 22:35422(R) (ANL-7445)
monthly progress report on, Argonne National Laboratory, 22:37401(R) (ANL-7457)
monthly progress report on, Argonne National Laboratory December 1968, 23:19461(R) (ANL-7527)
monthly progress report on, Argonne National Laboratory February 1969, 23:23848(R) (ANL-7553)
monthly progress report on, Argonne National Laboratory January 1969, 23:19462(R) (ANL-7548)
monthly progress report on, Argonne National Laboratory June 1969, 23:45046(R) (ANL-7581)
monthly progress report on, Argonne National Laboratory July 1969, 23:45047(R) (ANL-7595)
monthly progress report on, Argonne National Laboratory March 1969, 23:26018(R) (ANL-7561)
monthly progress report on, Argonne National Laboratory November 1969, 24:13520(R) (ANL-7640)
monthly progress report on, Argonne National Laboratory September 1968, 23:11153(R) (ANL-7500)
monthly progress report on, Argonne National Laboratory September 1969, 24:4023(R) (ANL-7618)
monthly progress report on, Argonne National Laboratory, October 1968, 23:11154(R) (ANL-7513)
monthly progress report on, Argonne National Laboratory, November 1968, 23:13409(R) (ANL-7518)
monthly progress report on, Argonne National Laboratory, August 1969, 24:1963(R) (ANL-7606)
monthly progress report on, Argonne National Laboratory, October 1969, 24:9077(R) (ANL-7632)
monthly progress report on, Argonne National Laboratory August 1968, 22:50699(R) (ANL-7487)
monthly progress report on, Pacific Northwest Laboratory December 1966, 23:23850(R) (BNWL-369)
monthly progress report on, Pacific Northwest Laboratory January 1967, 23:23851(R) (BNWL-375)
monthly progress report on, Pacific Northwest Laboratory February 1967, 23:23852(R) (BNWL-404)
monthly progress report on, Pacific Northwest Laboratory November 1966, 23:23849(R) (BNWL-359)
monthly progress report on, Pacific Northwest Laboratory March 1967, 23:23853(R) (BNWL-425)
monthly progress report on, Pacific Northwest Laboratory April 1967, 23:23854(R) (BNWL-444)
monthly progress report on, Pacific Northwest Laboratory May 1967, 23:23855(R) (BNWL-468)
monthly progress report on, Pacific Northwest Laboratory June 1967, 23:23856(R) (BNWL-499)
neutron Doppler coefficient measurements in ZPR-6, effects of temperature and sodium-voiding on, 21:38730
neutron flux calculations for fast reactor, comparison of multigroup diffusion analysis and one-dimensional static condition spectrum synthesis method for, (T), 23:13405 (AI-AEC-12721, pp 69-81)
nickel—steam reaction, isothermal, 21:23589(R) (ANL-7308)
noise analysis applications in, 21:2838
nuclear engineering education for, social responsibilities of, 22:12061
Nuclear Safety Information Center, description of functions of, 21:25630(R) (ORNL-4071)
Nuclear Safety Information Center, summary of 1967 activities of, 22:27416(R) (ORNL-4228)
nuclear superheaters for Sioux Falls Power Reactor, testing of, 21:25613 (ACNP-6103)
numerical evaluation of risk method for, description of, 22:53357
operating limits analysis for pool reactors, 21:35727
operating limits for BSR, 21:1212 (ORNL-TM-1667)
operating limits for MSRE, 21:1172 (ORNL-TM-733(Rev.2))
operating limits requirements for U.S. AEC-owned facilities, 25:51144
operating occurrences summary for Oct. to Nov. 1969, 24:16113
operating procedures for HFIR, 21:1211 (ORNL-TM-1532(Rev.))
operation criteria for, review of, 22:22925
operation in U.S. of nuclear power plants, analysis of AEC public meetings on, 24:50051

operation monitoring of Dresden Power Reactor Unit 1, description .75 to 3.00 MHz noise analysis, 23:4271 (BNWL-867)
operation of AGR type reactors, effects of systems design on, 23:43136
operation of Argonne National Laboratory zero power, review of rules and procedures for, 23:47261 (CNM-R-2(Vol.3), pp 1611-24)
operation of Kansas State University TRIGA Mark 2, analysis of containment structure radon concentration during, 24:22463
operation of Los Alamos Critical Assembly Facility, procedures for, 23:28559 (LA-4037)
operation of testing reactor, effects of fuel element and experiment failures on, 23:4343
operation procedure for 100 MW ORNL High-Flux Isotope Reactor, 23:40394 (ORNL-TM-1532(Rev.2))
operation procedures for radioactivity from corrosion product buildup in boiling and pressurized-water reactors, description of emergency, 23:15668
operation procedures for Thermionic Critical Facility, 24:4089 (GA-8091)
operation procedures for Triga Mark F, 21:42810 (AD-645546)
operation requirements for water-cooled power reactors, review of U.S. and Denmark, 23:31187
operation with the HFIR protection system, 21:40569 (ORNL-P-3249)
operations incidents in critical assemblies and reactors during 1966 to 1968, review of abnormal, 24:4073 (ORNL-NSIC-64)
operations incidents in nuclear facilities during 1969, listing of, 25:48224 (ORNL-NSIC-87)
operations incidents in U.S. power reactors during April to May 1970, 24:50054
operator functions in, quantitative method for analysis of, 23:28502 (AHSB(S)R-160)
organization at Chinon reactor, 23:12116
organization at the University of Virginia, 21:2877
performance of differentiating amplifiers for control systems, 21:31982
performance of GETR systems for, reliability analysis of, 21:38734
performance of high temperature gas cooled power reactor accident and failure response, 23:37565
performance of nuclear rocket test stand, 21:23701 (TID-22929)
personnel safety requirements for power reactors, review of, 23:31186
personnel training and safety check for Gundremmingen Power Reactor, 23:5985
personnel training for IGR reactor, use of analog computer simulator for optimum, 23:9136
philosophy of Canadian, evaluation of basic principles and application of, 23:37362 (CONF-681101-34)
philosophy of, evaluation of USAEC, 22:22723
physics measurements for support of, 21:27750
physics measurements in Calder Hall and Chapelcross, application of, 21:27761
pipe failure in PEGASE out-of-pile mockup, effects on burnout parameters of, (E/T), 23:9194 (CEA-R-3477)
pipe flaw growth detection with acoustic sensing device, 21:35566 (BNWL-SA-1076)
planning for ESADA—VESR hot maintenance, 21:7926
poison introduction system for, with gaseous neutron absorbers for shutdown or shim control, 23:9175(P)
poison solution introduction system for, with hollow rods passing through reactor core, 23:9176(P)
policies affecting public in nuclear power development, review of, 23:37389
policies in Sweden, summary of, 25:53976 (A/CONF.49/P-304)
policies on public protection in power plant engineering, critique on, 23:31134
population characteristics of power reactor sites, probabilistic method for determining, 23:37434
power distributions in reactor cores during transients, space-time analysis of, 22:25130 (KAPL-P-3425)
power excursion analyses for, modified Helmholtz modal expansion method with internal feedback for space dependent, 23:13579
power excursion calculations for, asymptotic expansions for approximate, 22:5998
power excursion in water cooled reactor low pressure coolant channel, hydraulics and thermodynamics of, (E), 24:1976 (CEA-R-3497)
power excursion in water moderated ROSPO reactor, analog computer simulation of moderated level actuated, 24:29054 (RT/FI-(69)21)
power excursion tests under natural convection, results of, 21:30265(T) (ANL-Trans-468)
power excursions from step insertions of reactivity in reactors, point kinetics equations for description of, 23:47300 (CNM-R-2(Vol.2), pp 943-59)
power excursions in fast breeder reactors, analysis of coupled hydrodynamic—neutronic, (T), 24:47877 (ANL-7610, pp 259-367)
power excursions in reactors, use of transfer function analysis for, 21:38526
power plant operating experience, 21:7952
power plant siting analysis, 21:42782
power reactor environment radiation monitors, analysis of optimum locations for, 23:49538
power reactor reliability data, description of classification and processing systems for, 23:15555 (HN-193)
power reactor, correction of printed errors concerning, 23:4290
power systems for power reactors, performance requirements for standby diesel, 23:31173
power transient effects on thermal and hydraulic phenomena, 21:30264(T) (ANL-Trans-467)
power transients in HIFAR, analog computer simulation of effects of loss of single coarse control arm blade on, 23:19520 (AAEC/TM-479)
pressure changes inside containment vessels of water-moderated reactors, method for calculation of, 21:25744
pressure generation by liquid hydrogen—liquid air reaction in FR-2 cold neutron source, 23:9197 (KFK-789)
pressure generation caused by particle-coolant energy transfer, 22:16265(R) (ANL-7403)
pressure glass cable bushing, manufacture and installation of, 21:25652
pressure pulses from accidents, localized plastic deformation of tubes from, (T), 24:33395
pressure pulses in water cooling channels from rapid heating, (E/T), 24:13581
pressure suppression device for pressurized-water reactors, 21:2855(P)
pressure suppression in containment, use of steam condensation at surface of liquid reservoir for, 23:9174(P)
pressure suppression system for boiling reactor, description of overhead suppression pond and air space for, 23:28495(P)
pressure suppression system for boiling reactor, description of overhead suppression pond and air space for non-gaseous production in, 23:28493(P)
pressure tube failure in ESSOR reactor vessel, full scale simulation of, 23:28553 (EUR-4101, pp 345-77)
pressure vessel brittle fracture, conference on, 21:4895 (EUR-3121.d,f,e)
pressure vessel codes, IAEA survey of, 21:1174 (STI/DOC-10/56)
pressure vessel crack failure, finite element techniques for simulation of prestressed concrete, 23:4277
pressure vessel damage resulting from severe excursion, empirical calculation of, 21:27676 (GEAP-5163)
pressure vessel design using models, 21:2824 (GA-6949)
pressure vessel for boiling water reactors, development of, 24:9097
pressure vessel fracture reliability, effects of proof testing and warm prestressing procedures on water moderated reactor, 23:47197 (HSSTP-TR-1)
pressure vessel pressure transients for water-cooled reactor, computer program analysis of cooling system rupture-initiated, 23:4289
pressure vessel rupture, design of criteria for prestressed concrete, 23:11135
pressure vessel structural fault location by acoustic triangulation, ACOUST-code for, 23:9241 (IDO-17280)
pressure vessel support-skirt stress analysis, effect of simulated earthquake asymmetric load on, (E/T), 23:11259
pressure wave propagation in two-phase flow, effects of flow regime on velocity of, (E/T), 22:33181
pressure-temperature transients in water cooled power reactors during coolant loss accidents, mathematical model for CONTEMPT—PS program for predicting, 23:11256(R) (IDO-17265)
principles for evaluation of, 21:30108 (CEA-R-3114)
principles for power plants, review of basic, 23:6016
principles of, summary of, 23:13527
probability analysis for, 24:50171
probability analysis for AGR type reactors, 24:50060
probability analysis for high temperature gas cooled reactors, 24:50061
probability analysis for power reactors, 24:50056
probability analysis for SGHWR, 24:50062
problems in prevention of criticality accidents, 23:9949
problems with fast power liquid sodium-cooled reactor single-wall sodium and water liquid—liquid heat exchanger, analysis of, 23:17183(T) (CONF-670916-4)
procedures and licensing requirements in Germany for power, 23:19448
procedures and safeguards at Ispra-1, 21:17526 (RT/ING-(66)15)
procedures and systems for GETR, 21:35729
procedures and systems for, discussion of, 24:9130 (CEA-CONF-1368)
program at Nine Mile Point Power Reactor, 21:30190
program for maintenance and operation, guide to, 23:29544 (THAI.-AEC-1(Rev.1))
programs in U.S. during February to March 1970, review of, 24:31087
programs in USA for, historical review of, 24:27606 (BNL-14581)
progress review on, 21:25683
prompt-critical excursion analysis for, coherence effects on, 22:16265(R) (ANL-7403)
protection instrument systems for, design principles for, 22:50843 (ORNL-NSIC-51)
protection system design diversity for pressurized water reactors, 23:31185 (WCAP-7306)
protection system for HFIR, 21:35730
protection system for power reactor, development of criteria for, 24:11149
protection systems for power plants, comparison of reliability techniques for, 23:28527
protection systems for power plants, design requirements of, 24:13511
protection systems for, computer code for evaluation of fault tree models of, 25:51134 (DUN-7697)
protection systems for, design principles of, 24:24867
protection systems for, principles of design of, 22:12059
protective measures during emergency conditions, effectiveness of, 25:48293
protective system design techniques for, bibliography on, 23:49573 (NYO-3986-1(Vol.2))
protective system for coolant loss accidents in pressure tube reactors, 21:46922(P)
protective system performance in, testing of automatic and manual, 24:18794
public relations aspects of, proposals for improving, 22:12048
pulsed reactor, description of shear pin-retained screw-drive rotating disc for, 22:48761(P)
quality assurance for reactor components, 21:7975
quality assurance programs for power plant construction, 24:24778
radiation control in Tokai-Mura Power Reactor, description of inspection and operation, 23:9104
radiation dose estimates for 1000 MW reactor accident in SRL area, 23:7638 (DP-1163)
radiation dose to man following maximum credible accident, effects of meteorological conditions on, 23:455 (ANL-7360, pp 149-84)
radiation effects on BR-3 pressure vessel steel, 21:34153 (BLG-372)
radiation effects on ferritic steel in LACBWR pressure vessel, 21:40517 (ACNP-66513)
radiation fields for rocket reactors, comparison of computer programs for calculation of, 24:16262 (N-70-12633)
radiation hazards for fuel elements and turbines of boiling power reactors, 25:3894
radiation monitoring for Kyoto University Research Reactor during 1965, safety log of, 23:26088 (KURRI-TR-11)
radiation protection for normal and accident operations in power reactors, analysis of and methods for, 23:11130
radiation protection procedures at Chinon reactors, 21:14023
radiation release incidents at NRTS, review of, 23:13551
radioactive effluents from power plants, origin and release of gaseous, 24:16220 (SGAE-RT-23/1969)
radioactive gas release during operation of KUR, control methods to minimize, 23:28558 (KURRI-TR-44)
radioactive gas rise from nuclear accidents, mechanics of, 21:41033
radioactivity release, on-line computer data analysis for, 21:1156 (BNWL-CC-700)
radioisotope behavior in coolant during normal operation of LMFBR, analysis of, (E/T), 23:13520 (AI-AEC-12721, pp 83-109)
radiological survey program for deactivated Hanford reactors, 21:1216 (DUN-SA-14)
RDT Standards for, development of, 22:20861
reactivity accidents in high temperature gas-cooled reactors, delayed Doppler coefficient effects on, 21:35576 (GAMD-7547)
reactivity accidents in power reactors, review of research programs on, 24:33366
reactivity analysis in water reactor accidents, 21:15727
reactivity balance calculation for operating MSRE, 21:38513
reactivity control by mercury or bismuth—mercury alloys releasable through temperature dependent rupture disk in fuel element, 21:38773(P)
reactivity effects in Fermi fuel meltdown incident, time history of anomalous, 21:38517
reactivity excursions in boiling power reactors, analysis of potential, 23:31183 (CONF-650681-1)
reactivity in steam cooled fast breeder reactor, effects of steam density at 3600, 2500, and 1200 psi on, 23:31158 (ORNL-TM-2582)
reactivity insertions for HFIR, performance for positive, (T), 21:21643 (ORNL-TM-1747)
reactivity stability in large plutonium-fueled liquid sodium-cooled fast power reactors, sodium void and Doppler effects on, 23:19477 (IA-1177)
reactivity transients analyses for, asymptotic solution to kinetics equations for reducing computer time for, 24:7143
reactivity transients for boiling water power reactors, analysis of, 23:47221 (APED-5455)
reactivity transients in boiling reactor, energy release for, 24:33404
reactivity transients in small cores, PARET code for analysis of nondestructive, 23:17232 (IDO-17282)
reactivity transients in water cooled cores, PARET code for analysis of nondestructive, 23:47223 (CNM-R-2(Vol.2), pp 664-80)
reactivity variations during fast reactor core meltdown, 23:52386(T) (JPRS-48331, pp 407-25)
reactivity variations in fast superheating reactors, use of SNEAK-3A for effects of hydrogen concentration on, (E/T), 23:13542(T) (EURFNR-550)
reactivity variations in University of Washington Educator Reactor, effects of fuel-box shield plug multiple section gasket on, 23:26098
reactor coolant expulsion analysis for, effects of coolant-structure coupling on, 22:5956
reactor siting criteria in the United Kingdom, 22:6056
reentry ablation of SNAP-19 plutonia fuel, 21:34398 (SC-CR-67-2573)
regulations in France on, 24:22364
regulations in Spain, summary of, 25:53988 (A/CONF.49/P-734)
regulatory actions relating to, review of, 21:2928
release of iodine isotopes from PM-3A containment vessel after maximum credible accident, 21:12215 (MND-M3A-3108(Pt.B))
release of radioactive substances to atmosphere, safeguards against, 21:12151 (ORNL-NSIC-13)
reliability analyses for, use of failure statistics in, 25:37041 (IRS-T-18(1970), pp 223-39)
reliability analysis of power reactor safety circuits, 24:16100
reliability analysis of protective systems for, 22:10000(R) (HN-190)
reliability analysis of, Monte Carlo digital computer simulation program for, 24:16315
reliability criteria for marine reactor systems, 24:13627(T) (JPRS-49698)
reliability engineering methods for, 25:60125
reliability factors in design of sodium cooled fast reactors, 24:24872
reliability of engineered safety systems, functional testing method for, (T), 24:33383
reliability of power reactors, data acquisition system for failure information concerning, 24:52848
reliability of power reactors, statistical analysis of failure information for determining, 24:52849
reliability of safeguards for reactor plants, 21:7951
reliability of systems for, effects on power reactor availability of, (E/T), 24:26788 (CEA-CONF-1453)
reliability requirements in evaluation of, 25:60122

requirements for circuit breaker supervision procedures and equipment in power reactors, 23:15560
requirements for economic gas-cooled fast power reactor closed-cycle gas-turbine, analysis of, 23:13367 (EIR-141)
requirements for Japan maritime reactor, analysis of, 23:2099
requirements for power reactor licensing, analysis of, 23:7375
requirements for, general, 25:23228
requirements of, for AVR boiler, 21:12173
research activities in Japan, summary of April to October 1970, 25:20763(R) (JAERI-Memo-4229)
research activities on, during 1967, summary of French, 23:2821 (NP-17597, pp 137-50)
research and development at ORNL, 22:1772(R) (ORNL-TM-1986)
research and development for, 22:22744
research and development of fast and gas cooled, summary of progress to July 1969 on, 23:33075
research and development on, January-February 1969 journal on, 23:9186
research and development on, status of U. S. programs for, 25:39270 (A/CONF.49/P-39)
research and development program at ORNL during January and February 1971, 25:34393(R) (ORNL-TM-3342)
research and development program during January to December 1970, review of ORNL, 25:34392(R) (ORNL-4647)
research and development program during January to February 1970, analysis of ORNL, 24:29038(R) (ORNL-TM-2919)
research and development program during January to December 1969, analysis of ORNL, 24:22431(R) (ORNL-4511)
research and development program during January to February 1969, analysis of ORNL, 23:33067(R) (ORNL-TM-2533)
research and development program during January to December 1968, analysis of ORNL, 23:33066(R) (ORNL-4374)
research and development program during July and August 1970, 24:52951 (ORNL-TM-3122)
research and development program during July to August 1968, analysis of ORNL, 24:4075(R) (ORNL-TM-2368)
research and development program during July to August 1969, analysis of ORNL, 24:4077(R) (ORNL-TM-2718)
research and development program during March and April 1971, 25:48291(R) (ORNL-TM-3411)
research and development program during March to April 1970, summary of ORNL, 24:36051(R) (ORNL-TM-2984)
research and development program during March to April 1969, analysis of ORNL, 23:33068(R) (ORNL-TM-2588)
research and development program during May and June 1971, 25:57092(R) (ORNL-TM-3483)
research and development program during May and June 1971, 25:48290(R) (ORNL-TM-2663)
research and development program during May to June 1968, analysis of ORNL, 24:4074(R) (ORNL-TM-2283)
research and development program during May to June 1970, 24:46071(R) (ORNL-TM-3061)
research and development program during November and December 1970, 25:23313(R) (ORNL-TM-3263)
research and development program during November and December 1968, analysis of ORNL, 23:17235(R) (ORNL-TM-2479)
research and development program during November to December 1969, analysis of ORNL, 24:20581(R) (ORNL-TM-2829)
research and development program during September to October 1968, analysis of ORNL, 24:4076(R) (ORNL-TM-2425)
research and development program during September and October 1970, 25:10244(R) (ORNL-TM-3212)
research and development program during September to October 1969, analysis of ORNL, 24:11214(R) (ORNL-TM-2777)
research and development programs for water cooled, summary of progress in, 23:9190
research and development programs for water cooled reactor, review of, 24:22443
research and development programs for, outline of, 22:44855
research and development programs on, review of, 23:43132 (CONF-670846-, pp 70-94)
research and development projects for, November—December 1969 summary of, 23:52395
research and development projects for, summary of, 22:20861
research and development projects on water cooled reactors, progress summary on, 24:50159
research and development projects on, review of, 25:12805
research and development studies on, April 1969 summary of, 23:15664
research at ORNL, Sept. 1969—1970, 25:13318(R) (ORNL-4620)
research in Germany during July to December 1969, 25:26004(R) (IRS-F-4)
research on, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
research on, ACRS comments on, 21:25690
research on, program in Japan for, 25:51137 (JAERI-13508)
research program for high-temperature gas-cooled reactors, 21:25630(R) (ORNL-4071)
research programs on, 21:36073(R) (ANL-7350)
research programs on, 21:25935(R) (ANL-7225)
research programs on structural design of nozzle and piping components, 25:48765(R) (ORNL-4693)
research programs on, proposals for German, 25:20687
research programs on, review of, 23:41529 (BNL-50179)
research programs on, summaries of, 25:57096 (WCAP-7722)
research progress during June 1970 through May 1971, 25:57090 (ORNL-4717, pp 91-107)
research progress on, 24:16217 (ORNL-4400, pp 118-26)
research progress on, 25:39521(R) (HMI-B-107)
research progress on, 24:13803 (ORNL-4400, pp 142-6)
research projects on, progress summaries to Nov. 1969, 24:16225
research projects on, review of current, 21:25689
research review on, 21:15731
retirement plan revision for Hallam Power Reactor, 21:7886 (NAA-SR-Memo-12209)
retirement procedures for Hallam Power Reactor, description of, 23:13523 (AI-AEC-12721, pp 309-12)
review of, 25:36973
review of fast reactor status and problems, 23:37597
review of thermal reactor status, 23:37596
review of, journal for, 21:46901
reviewing process in Germany for, summary of, 23:13526
risk assessment criteria for fast burst reactors, 24:11256 (CONF-690102-, pp 543-7)
risk estimates for urban sited reactors, 25:51014
risk evaluations for power, effects of engineered safeguards on, 24:7037
risk probability method for assessment of, 25:31529
risks associated with, reliability theory for assessing, 23:40319 (NP-17946)
rod ejection accident analysis for water reactors, evaluation of point kinetics methods for, 23:37592
role in Italy of Minister of the Interior in, 24:22367
role in Italy of Ministry of Labor in, 24:22369
role of National Center for Radiological Health in U. S. power, 24:22437
sabotage in power plants, consequences of industrial, 24:16110
safeguards analysis methods for fast burst reactors, review of, 24:11255 (CONF-690102-, pp 533-41)
safeguards in fused-salt breeder reactors, 21:30168 (ORNL-TM-1858)
safeguards in U. S. power reactors, siting effects of engineered, 21:2842
safeguards philosophy for, deterministic factors and probability theory in, 24:20594
safety analysis of 3700-liter uranium oxide (UO_2) core in ZPR-6 and -9, 23:4298 (ANL-6271(Add.2))
safety analysis of James A. FitzPatrick Power Reactor, preliminary, 23:11108 (DOCKET-50333-2)
safety analysis of use of cooling towers for Vermont Yankee Power Reactor, Division of Reactor Licensing, 23:9082 (DOCKET-50271-12)
safety analysis on Browns Ferry Power Reactor Unit 3, Division of Reactor Licensing, 23:4128 (DOCKET-50296-3)
safety analysis report for Robert E. Ginna Power Reactor Unit 1, final, 23:9072 (DOCKET-50244-8)
safety analysis report of Robert E. Ginna Power Reactor Unit 1, 23:4100 (DOCKET-50244-7)
safety analysis report on Barnwell Nuclear Fuel Processing Plant, preliminary, 23:7427 (DOCKET-50332-2)
safety analysis report on Barnwell Nuclear Fuel Processing Plant, preliminary, 23:7426 (DOCKET-50332-1)
safety analysis report on Beaver Valley Power Reactor Unit 1, preliminary, 23:11110 (DOCKET-50334-1)
safety analysis report on Beaver Valley Power Reactor, preliminary, 23:11112 (DOCKET-50334-3)
safety analysis report on Beaver Valley Power Reactor, preliminary, 23:11111 (DOCKET-50334-2)
safety analysis report on Bell Power Reactor, preliminary, 23:4132 (DOCKET-50319-5)
safety analysis report on Bell Power Reactor, preliminary, 23:4131 (DOCKET-50319-4)
safety analysis report on Calvert Cliffs Power Reactor Units 1 and 2, preliminary, 23:11105 (DOCKET-50317-8)
safety analysis report on Calvert Cliffs Power Reactor Unit 1 and Unit 2, preliminary, 23:7369 (DOCKET-50317-7)
safety analysis report on Crystal River Power Reactor Units 3 and 4, preliminary, 23:9083 (DOCKET-50302-9)
safety analysis report on Donald C. Cook Power Reactor Units 1 and 2, preliminary, 23:4129 (DOCKET-50315-11)
safety analysis report on Donald C. Cook Power Reactor Units 1 and 2, preliminary, 23:4130 (DOCKET-50315-12)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4141 (DOCKET-50331-5)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4140 (DOCKET-50331-4)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:11106 (DOCKET-50331-7)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4139 (DOCKET-50331-3)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4137 (DOCKET-50331-1)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4138 (DOCKET-50331-2)
safety analysis report on Duane Arnold Power Reactor, preliminary, 23:4142 (DOCKET-50331-6)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:4127 (DOCKET-50286-8)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:4125 (DOCKET-50286-6)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:11101 (DOCKET-50286-10)
safety analysis report on Indian Point Power Reactor Unit 2, final, 23:4101 (DOCKET-50247-1)
safety analysis report on Indian Point Power Reactor Unit 2, final, 23:4102 (DOCKET-50247-2)
safety analysis report on Indian Point Power Reactor Unit 2, preliminary, 23:9074 (DOCKET-50247-5)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:7367 (DOCKET-50286-9)
safety analysis report on Indian Point Power Reactor Unit 3, index to questions on preliminary, 23:11102 (DOCKET-50286-11)
safety analysis report on Indian Point Power Reactor Unit 2, final, 23:4104 (DOCKET-50247-4)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:11103 (DOCKET-50286-12)
safety analysis report on Indian Point Power Reactor Unit 2, final, 23:4103 (DOCKET-50247-3)
safety analysis report on Indian Point Power Reactor Unit 3, preliminary, 23:4126 (DOCKET-50286-7)
safety analysis report on James A. FitzPatrick Power Reactor, preliminary, 23:11107 (DOCKET-50333-1)
safety analysis report on James A. FitzPatrick Power Reactor, preliminary, 23:11109 (DOCKET-50333-3)
safety analysis report on Kewaunee Power Reactor, preliminary, 23:1975 (DOCKET-50305-2)
safety analysis report on Kewaunee Power Reactor, preliminary, 23:1977 (DOCKET-50305-4)
safety analysis report on Kewaunee Power Reactor, preliminary, 23:1978 (DOCKET-50305-5)
safety analysis report on Kewaunee Power Reactor, preliminary, 23:1974 (DOCKET-50305-1)
safety analysis report on Kewaunee Power Reactor, preliminary, 23:1976 (DOCKET-50305-3)
safety analysis report on Millstone Point Power Reactor Unit 1, final, 23:7364 (DOCKET-50245-6)
safety analysis report on Monticello Power Reactor Unit 1, final, 23:4109 (DOCKET-50263-2)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4119 (DOCKET-50263-12)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4122 (DOCKET-50263-15)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4118 (DOCKET-50263-11)
safety analysis report on Monticello Power Reactor Unit 1, final, 23:4111 (DOCKET-50263-4)
safety analysis report on Monticello Power Reactor Unit 1, proposed Technical Specifications for, 23:11099 (DOCKET-50263-18)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4120 (DOCKET-50263-13)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4113 (DOCKET-50263-6)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4114 (DOCKET-50263-7)
safety analysis report on Monticello Power Reactor Unit 1, final, 23:4108 (DOCKET-50263-1)
safety analysis report on Monticello Power Reactor Unit 1, final, 23:4110 (DOCKET-50263-3)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4121 (DOCKET-50263-14)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4112 (DOCKET-50263-5)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4116 (DOCKET-50263-9)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4117 (DOCKET-50263-10)
safety analysis report on Monticello Power Reactor Unit 1, preliminary, 23:4115 (DOCKET-50263-8)
safety analysis report on Oyster Creek Power Reactor, Unit 2, preliminary, 23:4133 (DOCKET-50320-7)
safety analysis report on Oyster Creek Power Reactor, Unit 2, preliminary, 22:27409 (DOCKET-50320-1)
safety analysis report on Oyster Creek Power Reactor Unit 2, preliminary, 23:7370 (DOCKET-50320-8)
safety analysis report on Quad-Cities Power Reactor Units 1 and 2, final, 23:4106 (DOCKET-50254-11)
safety analysis report on Quad-Cities Power Reactor Units 1 and 2, technical specifications for, 23:4107 (DOCKET-50254-12)
safety analysis report on Quad-Cities Power Reactor Units 1 and 2, final, 23:4105 (DOCKET-50254-10)
safety analysis report on Rancho Seco Power Reactor Unit 1, preliminary, 23:9084 (DOCKET-50312-2)
safety analysis report on Rancho Seco Power Reactor Unit 1, preliminary, 23:9086 (DOCKET-50312-4)
safety analysis report on Rancho Seco Power Reactor Unit 1, preliminary, 23:9087 (DOCKET-50312-5)
safety analysis report on Rancho Seco Power Reactor Unit 1, preliminary, 23:9085 (DOCKET-50312-3)
safety analysis report on Rancho Seco Power Reactor Unit 1, preliminary, 23:9088 (DOCKET-50312-6)
safety analysis report on Robert E. Ginna Power Reactor Unit 1, preliminary, 23:11088 (DOCKET-50244-12)
safety analysis report on Robert E. Ginna Power Reactor Unit 1, preliminary, 23:11085 (DOCKET-50244-9)
safety analysis report on Robert E. Ginna Power Reactor Unit 1, final, 23:11089 (DOCKET-50244-13)
safety analysis report on Robert E. Ginna Power Reactor Unit 1, preliminary, 23:11086 (DOCKET-50244-10)
safety analysis report on Robert E. Ginna Power Reactor Unit 1, preliminary, 23:11087 (DOCKET-50244-11)
safety analysis report on San Onofre Power Reactor Unit 1, final, 23:4099 (DOCKET-50206-16)
safety analysis report on San Onofre Power Reactor Unit 1, preliminary, 23:4094 (DOCKET-50206-11)
safety analysis report on San Onofre Power Reactor Unit 1, final, 23:4087 (DOCKET-50206-4)
safety analysis report on San Onofre Power Reactor Unit 1, preliminary, 23:4091 (DOCKET-50206-8)
safety analysis report on San Onofre Power Reactor Unit 1, final, 23:4089 (DOCKET-50206-6)
safety analysis report on San Onofre Power Reactor Unit 1, preliminary, 23:4096 (DOCKET-50206-13)
safety analysis report on San Onofre Power Reactor Unit 1, final, 23:4088 (DOCKET-50206-5)
safety analysis report on San Onofre Power Reactor Unit 1, preliminary, 23:4095 (DOCKET-50206-12)
safety analysis report on San Onofre Power Reactor Unit 1, preliminary, 23:4093 (DOCKET-50206-10)
safety analysis report on Seabrook Power Reactor, Unit 1, preliminary, 23:25993 (DOCKET-50340-1)

safety analysis report on SEFOR, preliminary, 23:11084 (DOCKET-50231-24)
safety analysis report on Sequoyah Power Reactor Units 1 and 2, preliminary, 23:4136 (DOCKET-50327-3)
safety analysis report on Sequoyah Power Reactor Units 1 and 2, preliminary, 23:4134 (DOCKET-50327-1)
safety analysis report on Sequoyah Power Reactor Units 1 and 2, preliminary, 23:4135 (DOCKET-50327-2)
safety analysis report on Sioux Falls Power Reactor, 23:11083 (DOCKET-50130-1)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11095 (DOCKET-50250-7)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11090 (DOCKET-50250-2)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11092 (DOCKET-50250-4)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11098 (DOCKET-50250-11)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11093 (DOCKET-50250-5)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11094 (DOCKET-50250-6)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11096 (DOCKET-50250-8)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, 23:11097 (DOCKET-50250-10)
safety analysis report on Turkey Point Power Reactor Units 3 and 4, preliminary, 23:11091 (DOCKET-50250-3)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9081 (DOCKET-50271-9)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9076 (DOCKET-50271-2)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9079 (DOCKET-50271-7)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9080 (DOCKET-50271-8)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9077 (DOCKET-50271-3)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9078 (DOCKET-50271-6)
safety analysis report on Vermont Yankee Power Reactor, preliminary, 23:9075 (DOCKET-50271-1)
safety analysis reports for power, analysis of required supplementary material to preliminary, 23:4154
safety analysis reports for, guide to preparation of, 22:44836 (TID-24631)
safety evaluation of Rancho Seco Power Reactor, USAEC Division of Reactor Licensing, 23:2054 (DOCKET-50312-1)
safety evaluation of Saxton Reactor operating conditions during pH studies, 23:17222 (DOCKET-50146-20)
safety evaluation of Saxton Reactor operation at 35 MW(t), Technical Specifications change and Division of Reactor Licensing, 23:17216 (DOCKET-50146-13)
safety evaluation of use of fuel elements with burnable poisons in Saxton Reactor, Technical Specifications change and Division of Reactor Licensing, 23:17220 (DOCKET-50146-18)
safety evaluation of use of instrumented subassembly in Saxton Reactor core, Technical Specifications change and Division of Reactor Licensing, 23:17219 (DOCKET-50146-17)
safety evaluation of use of pressurized fuel rods in Saxton Reactor core, Technical Specifications change and Division of Reactor Licensing, 23:17221 (DOCKET-50146-19)
safety instrumentation for Lingen, description of, 23:5988
safety problems in Hungary power reactors, review of, 23:37380 (NP-17851, pp 7-14)
safety systems for reactors, fault tree analysis computer program for evaluation of, 23:31139 (DUN-5508)
safety valves for Saxton Reactor, Technical Specifications change regarding anti-simmer device for, 23:17226 (DOCKET-50146-28)
sampling of iodine-131 in simulated reactor accident, testing materials for, 21:46838 (BMI-1814)
Saxton Reactor, analysis of hazards associated with use of plutonium fuel elements in, 23:17212 (DOCKET-50146-7)
scram reduction procedures at GETR, 21:35728
scram requirements for single channel fuel meltdown, 21:46938(R) (BNWL-501)
seismic analysis of containment structures, mathematic model for, (T), 24:24863
seismic analysis of equipment mounted in containment structures, (T), 24:24862
seismic design criteria for power plants, evaluation of, 23:37435
seismic design for JPDR, 21:14011
seismic effects on stress and deflection of reactor internals, (T), 24:38568 (BAW-10008(Pt.1)(Rev.1))
seismic protection of large nuclear power plants, economics and feasibility of floating-barge concept for, 23:28525
seismic research for, ACRS comments on, 22:32900
seismic stress limitations for, containment structures, (T), 24:24864
shielding calculations for portable power reactors, (T), 24:18754
shutdown channels and fitted interlocks in French reactors, tabular summary of, 23:11254 (CEA-R-3550)
shutdown conditions for MZFR, description of, 23:5995
shutdown cooling of sodium cooled fast reactors, transient processes in emergency, 23:52364(T) (JPRS-48330, pp 325-54)
shutdown criteria for, procedures for determining trip set-points for, 22:44867
shutdown device for heavy water reactors, 21:10182(P)
shutdown flooding system for coolant loss accident, description of, 22:10030(P)
shutdown mechanisms in Spert-I type reactors, theoretical self-limiting inherent, 21:42831
shutdown monitor for reactor to prevent unauthorized use, 22:6181(P)
shutdown of gas-cooled reactors using natural coolant circulation, emergency, 21:17500
shutdown safing mechanism for Hanford reactors, design of, 21:17493
shutdown system for heavy boiling water-cooled and -moderated reactors, description of valve-regulated heavy water-heating pressure-suppressing, 23:6015(P)
shutdown system for reactors, description of gas-pressure-injected valve-regulated constant-flow liquid poison, 23:11361(P)
shutdown system with poison gas in coolant tubes, 22:18652(P)
shutdown temperature transients for Fast Flux Test Facility, description of scram, 23:4300(R) (BNWL-880)
shutdowns in Connecticut Yankee Power Reactor, analysis of unscheduled, 23:26098
site analyses factors for U.S. power plants, 23:37361 (CONF-681101-33)
site evaluation using meteorological data from Savannah River analyses, 21:41018 (DP-MS-67-69)
site for 340 MW(e) heavy water moderated reactor, effects on plant design parameters and safety standards of, 24:20588
site of Trosa Power Reactor, review of environment conditions for, 24:4009
site selection effects on, 24:11100 (IRS-T-16(1969), pp 33-40)
site selection parameters in California, 21:17480
site selections for future power reactors, summary of public interest considerations affecting, 23:15658 (TID-24936)
sites in Yugoslavia for power plants, design requirements and safety standards for, 24:20589
siting and containment for, evaluation of interrelations of, 23:37598
siting aspects of, JCAE comments on, 22:22753
siting criteria for, 22:12054
siting criteria for power reactors, 21:31955
siting criteria for, consideration on relaxation of, 21:27720
siting criteria for, development of, 21:31942 (NP-16793)
siting evaluation by radiation dose distribution estimation from measured meteorology data, WRED code for, 23:28530
siting for German power plants, effects of engineered safeguards and refined analytical techniques on urban, 23:37360 (CONF-681101-32)
siting for power plants, probabilistic method for evaluating risk associated with, 23:37591
siting for, analysis of meteorological factors involved in, 22:5958
siting for, evaluation of factors affecting AEC decisions on, 22:12055
siting guide development for undersea reactors, 23:52391
siting in Netherlands of reactors, analysis of, 22:35683
siting in U. K. of power reactor, policies and procedures for, 24:50058
siting in U. K. of power reactors, standards for, 24:50059
siting of 1000 MW(e) pressurized water reactor, mortality risk calculations for, 24:33214 (LA-4316)
siting of AGR type and high temperature gas cooled power reactors, analysis of urban, 23:37566
siting of Canadian, relation of design and containment to, 21:31895 (AECL-2863)
siting of dual purpose desalination and power, effects of engineered safeguard requirements on, 24:20618 (ORNL-TM-2380)
siting of gas cooled power reactors, analysis of urban, 24:50065
siting of gas-cooled power reactors, analysis of design requirements for urban, 23:2060
siting of high temperature gas cooled power reactor, comparison of system characteristics for urban, 23:37567
siting of power reactors, effects of earthquake fault zones on, 23:21435
siting of power reactors, factors affecting urban, 23:37359 (CONF-681008-9)
siting of power reactors, legal aspects of, 23:26060
siting of power reactors, review of world-wide standards for, 23:37381 (NP-17851, pp 73-100)
siting of power, effects on accident hazards of urban, 23:49539
siting of reactors, 24:50056
siting of reactors, analysis of potential hazards of, 24:50170
siting policies for, comparison of Canadian and U. S, 22:50697 (AECL-3156)
siting standards for, 21:44894
siting standards for, proposed risk criterion for determination of, 21:38512
SNAPTRAN 10A/2 transient and destruct tests, 21:1197 (NAA-SR-11906)
sodium boiling in fast reactors, analysis of ejection, superheat, and recondensation for, (E/T), 23:4203 (EURFNR-564)
sodium boiling transients for fast, calculated feedback reactivities and void coefficients for, 23:49572 (ANL-7410, pp 229-337)
sodium boiling transients for fast, calculated temperature and mass flow rate profiles for, 23:49572 (ANL-7410, pp 229-337)
sodium fires in Cabri Reactor, analysis of possible, 23:9201 (TID-24857)
sodium fires in LMFBR, aerosol release and transport following, 23:1991(R) (AI-AEC-12680)
sodium superheating transients, comparison at 5 and 15 psia of 100 liquid, 23:23934 (AI-AEC-12744, pp 53-60)
sorbent beds for Fort St. Vrain Power Reactor Unit 1 steam leaks in helium coolant, performance requirements for, 23:9118(R) (GA-7634)
sorbent beds for Fort St. Vrain Power Reactor Unit 1 steam leak in helium coolant, performance requirements for, 23:9117(R) (GA-7453)
spray efficiency for iodine vapor removal for, NSPP tests of, 22:32796
stability analysis for thermionic power reactors, effects of delayed collector and structure coefficients on, (T), 23:21462 (GA-8943)
stability control at positive power coefficients, 21:15706
stability control in fast sodium-cooled reactors, 21:14025
stability requirements of in-core thermionic power reactors, effects of design parameters on, 23:40415
stainless steel—steam reactions, isothermal, 21:23589(R) (ANL-7308)
standards and codes for, evaluation of use of, 22:44852
standards developments in West Germany, review of 1968 and 1969, 25:1913
standards for development of water cooled reactors, 24:4074(R) (ORNL-TM-2283)
standards for development of water cooled reactors, 24:4075(R) (ORNL-TM-2368)
standards for development of water cooled reactors, 23:33068(R) (ORNL-TM-2588)
standards for development of water cooled reactors, 24:4076(R) (ORNL-TM-2425)
standards for development of water cooled reactors, 23:33067(R) (ORNL-TM-2533)
standards for development of water cooled reactors, 24:22431(R) (ORNL-4511)
standards for development of water cooled reactors, 23:33066(R) (ORNL-4374)
standards for power reactor operation in U.S, 25:8046
standards for power, effects of social costs on standards for, 24:7045
standards for, compilation of national and international nuclear, 25:1912 (ORNL-NSIC-78)
standards for, compilation of national and international nuclear, 22:48653 (ORNL-NSIC-50)
standards for, compilation of national and international nuclear, 24:2007 (ORNL-NSIC-63)
standards for, effects of public acceptance of non-nuclear hazards on, 25:54150 (A/CONF.49/P-671)
standards for, handbook on, 22:33123
standards for, historical development of AEC, 21:23653
standards for, national and international, 21:45624 (ORNL-NSIC-38)
standards for, review of international, 23:37379 (NP-17851)
standards in Italy for power, description of ENEL technical, 24:22370
standards in Netherlands for, review of, 24:20583
standards in U.S. for power reactors, review of, 24:33215
standards in U.S. for power reactors, review of, 24:33216
standards in U.S. for water cooled power reactors, information program for, 24:50052
standards in United Kingdom in relation to policy on nuclear plant siting, 24:7921
startup of 1000 MW boiling reactor, procedures for black-plant, 23:19507
startup of CABRI Reactor, description of MAXTREL method for blind, 23:34921(T) (ORNL-tr-1938)
static component failure effects on reactor operation reliability, analysis of, (T), 23:15656 (HN-194)
status of U. S. AEC water reactor projects, 24:13582
steam graphite reaction rate analysis, 21:38463(R) (ORNL-4133)
steam line failure in boiling reactor, analysis of systems response to, (E/T), 24:11211 (NEDO-10045)
steam line rupture in boiling pressurized-water, theoretical analysis of, 21:27724
steam pressure production in reactors, effects of hot metal spheres in water on, 24:2004 (ANL-7575, pp 130-5)
steam-graphite reactions in HTGR systems, studies of, 21:25630(R) (ORNL-4071)
stress analysis for power reactor prestressed or reinforced concrete containment structures, effects of aircraft crash impact forces on, 23:21431
stress analysis of ESSOR reactor vessel, 21:13968 (EUR-3159.e)
stress-testing of pressure vessels, economics and feasibility evaluation for large-scale prestressed concrete reactor, simulated, 23:15739 (ORNL-TM-2390)
structural effects of pressure tube rupture in EL-4 type reactors, 23:28510 (EUR-4101, pp 324-44)
structural loading under accident conditions, model techniques in simulation of, 23:28509 (EUR-4101, pp 143-51)
structural response of PFR to dynamic loading from internal explosions, calculation methods for model and full scale, 23:28511 (EUR-4101, pp 379-91)
structural response of RAPSODIE to internal explosions, scale model simulation of, 23:28554 (EUR-4101, pp 393-410)
structural response of reactor vessels to internal shock loading, conference on, 23:28504 (EUR-4101)
structural response of scale models to mechanical transients, instrumentation for measuring, 23:26605 (EUR-4101, pp 153-92)
studies for HWOCR, 21:38432(R) (AI-CE-4)
studies in reactor kinetics, summary of, 22:12063
studies of earthquake-proofing in Japan, 21:10147
summary in U.S. for February to March 1971, 25:48166
summary of AEC research and development projects on, 22:53395
summary of research and development on, March to April, 1970, 24:16224

summary of research and development on, March—April 1969, 23:15661
system analysis for PM-3A Reactor, 21:8012 (MND-M3A-3146)
system for liquid-cooled and moderated reactors, description of, 22:18627(P)
systems design for, statistical methods for, 25:36979 (IRS-T-18(1970), pp 205-15)
systems development for, activities of Munich laboratory for, 24:20549
systems for U. S. power reactors, reliability of, 21:17492
systems for, assessment of sensing channels for, 22:53480
systems for, book on, 22:30273
systems for, methods for analysis of reliability of circuits in, 25:28740
systems for, use of on-line digital computers for reactor control and, 24:16221 (UJV-2277-R,P,A)
systems reliability analysis from component failure-rate data, development of techniques for, 22:53487
systems transient testing for Peach Bottom Power Reactor Unit 1, analysis of, 23:9095 (GAMD-7900)
technical aspects of, review of, 25:26011
technical progress review of, Sept.—Oct. 1968, 22:44849
technical progress review on, index to, 25:44141 (ORNL-NSIC-86)
technical progress review on, July-August 1968, 22:32901
technical progress review on, July-August 1969, 23:33071
technical progress review on, Nov.—Dec. 1969, 23:52393
technical progress review on, September—October 1969, 23:43139
technical specifications development for, principles and practices of, 25:51142
technical specifications development for, systems analysis method for, 25:51143
Technical Specifications for Millstone Point Power Reactor Unit 1, proposed, 23:9073 (DOCKET-50245-7)
temperature excursion actuated fail-safe latch for use in, 25:15812(P)
temperature of fires of dispersed sodium reactor coolant, effects of nitrogen—oxygen atmosphere on, 24:2004 (ANL-7575, pp 130-5)
test facilities for components and systems of LMFBR reactors, evaluation of required, 23:11162 (CONF-680419-, pp 422-33)
test program for Phenix Fast Reactor, review of, 23:45042
testing HFIR for operational, 21:35736
testing of KRB for operational, 21:35623
testing of PCTR Fast neutron cavity, 23:23955 (BNWL-CC-1704)
testing of pressure-components for reactors, description of Huber-Hencky method of stress, 22:39907
testing of Rapsodie, comparison of calculated and measured results of startup, 23:19524 (CEA-R-3626)
testing of SNAP 8 (S8DR) components and systems, description of failure, 23:11310 (NAA-SR-Memo-11373(Add.1))
testing of sodium-cooled reactor components for, 21:35593(T) (EURFNR-267)
thermal transient requirements for LMFBR-type reactor components, effects of heat capacities and time delays on, 23:4282
thermomechanical analysis of burst-type fast reactor, methods for calculation of, (T), 23:15710 (SC-DC-69-1630-A)
tornado effects on water cooled power reactor fuel storage pool building, 23:37429
training course on, lecture notes for, 23:2057 (NP-17649(Vol.1))
training course on, lecture notes for, 23:2058 (NP-17649(Vol.2))
training problems for Hanford Production Reactors (N) startup, 21:35768
training program for, summary of UKAEA, 22:42210 (TID-24564)
training programs for MSRE, 21:35634
transient accident behavior of plutonium recycle fuel elements, 23:37568
transient analyses for fast, results of FREADM calculations for, 23:40425 (CONF-690401-, pp 30-50)
transient analysis in CVTR under postulated accident conditions, 21:34081 (CVNA-283)
transient analysis of rod withdrawal accidents in Fort St. Vrain Power Reactor, 21:38451(R) (GA-7314)
transient behavior of Zircaloy clad uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel rods, 24:43857(R) (BNWL-1442)
transient boiling of coolant water during exponential heat flux increases, 21:43162
transient conditions in, mathematical models for calculating pressure-temperature, 21:40543 (BNWL-SA-844)
transient overpower and coolant loss flow effects on ceramic fueled fast, 24:43762(R) (GEAP-10028-33)
transient overpower effects on Fast Ceramic Reactor fuel elements, 24:16190(R) (GEAP-10028-32)
transient response of high enthalpy water for, coolant loss accident effects on pressure-time, 22:32799
transient sodium boiling effects in large fast breeders, 21:17495
transient sodium coolant boiling in fast breeders, analytic model of, (T), 21:13945 (ANL-7222)
transient testing in SNAPTRAN-1, 21:8027
transients accompanying accident conditions, analysis of, 25:46324 (AD-717561)
transients in SRE, effect of dissolved helium on flux, 21:35618
transistorized trip circuit for, 21:2898
tritium activities in, calculations of, 21:7860 (BMI-1787)
turbine dump valve failure in Sioux Falls Power Reactor, 21:38469(R) (TID-23919)
use of nuclear electronics in, conference on, 21:1224 (STI/PUB-115)
vacuum pump operation in Vermont Yankee Power Reactor, effects of control-rod-drop-accident conditions on mechanical, 23:11100 (DOCKET-50271-10)
vapor container leak rate test for CVTR, 21:7864 (CVNA-266)
vapor suppression in boiling water reactor containment systems, for metal—water reactions following coolant loss accidents, 23:47220 (APED-5454)
verification of Peach Bottom, using reactor simulator, 21:23600(R) (GA-7830)
vibration testing of reactor systems and components, analysis of earthquake response by, (E/T), 23:40380
void fraction effects on pressure vessel blowdown for, calculation of, 23:4286
void fraction profile in water cooled pressure vessel, analysis of blowdown actuated, (E/T), 24:29035 (BNWL-1295)
waste disposal methods for fast reactor fuels, description of, 23:4301(R) (BNWL-894)
waste disposal methods for power reactors, 21:38587
water cooling system pressure and temperature following primary rupture, 21:12176
water level standpipe gage for LaCrosse Boiling-Water Reactor, revised insulation requirements for, 23:26098
water removal rates from thermal insulation in Fort St. Vrain Power Reactor Unit 1, analysis for fibrous Kaowool of, 23:31126 (GAMD-9115)

REACTOR SAFETY EXPERIMENTS
see also Containment Mockup Facility
see also Containment Research Installation
see also Containment Systems Experiment
see also Nuclear Safety Pilot Plant
accident analysis in TREAT, review of programs for LMFBR, 24:22441
accident in TREAT, simulation of transient, 22:27416(R) (ORNL-4228)
accident simulation in TREAT, nuclear-excursion and loss-of-coolant, 21:36073(R) (ANL-7350)
analysis of meteorological variables in, for LOFT, 21:10461(R) (IDO-12057)
analytical chemistry support program for LOFT-ECCS, 23:10 (IN-1203, pp 69-101)
analytical methods for LOFT, 21:30345(R) (IN-1063)
anemometer for air—steam convection currents in LOFT, description of ultrasonic, 23:17253 (IDO-17293)
blowdown analysis for LOFT, dynamic hydraulic forces calculations for reactor loop component, 22:1766(R) (IDO-17240)
blowdown analysis for LOFT, oscillatory pressure phenomena measurements in semiscale, 22:1766(R) (IDO-17240)
blowdown analysis for LOFT, using BURST code, 21:12219(R) (IDO-17167)
blowdown analysis for LOFT, WATER-HAMMER program for, 22:6517 (TID-24137)
blowdown analysis in LOFT, BURST program for, 21:12220(R) (IDO-17186)
blowdown analysis of LOFT, calculation of transient hydraulic forces on reactor loop components for, 21:44843(R) (IDO-17239)
blowdown behavior in LOFT, reactor internal effects on, 21:30147(R) (IDO-17214)
blowdown behavior in subcooled region, BURST-1-code for, 21:30147(R) (IDO-17214)
blowdown in LOFT quarter scale mockup, testing for, (E/T), 24:7162
blowdown in LOFT quarter-scale Tests 704 and 706, WHAM computer code calculated pressure profiles for, 23:19512(R) (IDO-17266)
blowdown in LOFT quarter-scale Tests 704 and 706, measured pressure profiles for, 23:19512(R) (IDO-17266)
blowdown in LOFT scale model tests, measurement of pressure profiles during, 24:22427(R) (IDO-17303)
blowdown in LOFT scale model tests, RELAP 3 and WHAM computer programs calculation of pressure profiles during, 24:22427(R) (IDO-17303)
blowdown in LOFT, testing for, (E/T), 24:7161
blowdown loop system in LOFT, operational requirements of, 23:52382(R) (IDO-17267)
blowdown pressure transients in LOFT, comparison of calculated and measured values for subcooled, 23:37576
blowdown process testing in quarter-scale LOFT vessel, hydrodynamics and mechanical response measurements during, 22:37532(R) (IDO-17242)
blowdown test program, semiscale, 21:23602(R) (IDO-17187)
blowdown testing of LOFT, equipment and procedure for, 21:12219(R) (IDO-17167)
blowdown testing using simulated LOFT core, semiscale, 21:44843(R) (IDO-17239)
blowdown tests at high pressures and temperatures, pressures in, 21:30146(R) (IDO-17213)
blowdown tests in LOFT, semiscale, 21:12220(R) (IDO-17186)
chemical studies for LOFT, 24:9429(R) (IN-1314)
construction of LOFT, 21:46906
containment atmosphere in LOFT, continuous sampler-monitor for sampling, 22:4231(R) (IN-1087)
containment during unperturbed LOFT-ECC tests, analysis of iodine-131, 23:19512(R) (IDO-17266)
containment shell coating decontamination for LOFT, 21:5991(R) (IDO-14680)
containment shell coatings for LOFT, 22:4231(R) (IN-1087)
containment vessel for LOFT, flat rectangular finite element method for stress analysis of, 23:17646
containment vessel particulate iodine sampling system for LOFT-ECCS, 23:10 (IN-1203, pp 69-101)
contamination-decontamination studies on LOFT, 23:13824(R) (IN-1201)
Continuous-Sampler-Monitor development for LOFT, 21:31926 (CONF-660904-Vol.1 and 2, pp 974-6)
control rod drive system for excursion-type reactor, description of bi-directional variable-speed, 23:9213(P)
control rod worths and temperature coefficients of SPERT III, 21:27801(R) (IDO-17228)
control rods for LOFT, comparison of solid cruciform and open-lattice designs for, (T), 23:52382(R) (IDO-17267)
control system for operation and shutdown of SNAPTRAN-2, 21:12219(R) (IDO-17167)
control system for SPERT, PDP-5 computer, 21:8640(R) (IDO-17211)
control systems for LOFT, dynamic analysis of, 23:52406(R) (IDO-17302)
conversion to fast reactor subassembly testing of TREAT, description of configuration for, 23:4351
converter-system design for fast fuel cluster testing in TREAT, 22:22653(R) (ANL-7419)
coolant decompression and analysis under severe transient conditions, 21:42726(R) (IITRI-578-P-21-30)
coolant ejection in TREAT Mark II loop, suppression of sodium slug impacts from, 24:33446
coolant expulsion and fuel meltdown in TREAT, 21:34076(R) (ANL-7342)
coolant expulsion and fuel meltdown in TREAT, 21:7856(R) (ANL-7255)
coolant level indicator for LOFT, development of ultrasonic, 25:10267 (IN-1442)
coolant loss accident in LOFT, cooling system fluid response and fuel pin thermal response during, (T), 23:52382(R) (IDO-17267)
coolant loss accident in water cooled reactors, full-length emergency core cooling heat transfer tests in LOFT-ESS program on, 23:28518 (IDO-17258-E)
coolant loss accident simulation in LOFT, analysis of iodine-131 release and distribution for, 23:4272(R) (IDO-17264)
coolant loss accident simulation in LOFT, BURST-2 computer program requirements for, 23:4272(R) (IDO-17264)
coolant loss accident simulation in LOFT, core length parameters for, 24:46087 (IN-1391)
coolant loss accident simulation in LOFT, RELAPSE somputer program analysis of blowdown during, 23:4272(R) (IDO-17264)
coolant loss accidents in LOFT, emergency systems response to, 25:41495
coolant loss accidents in water cooled reactors, CVTR in-plant testing for LOFT-ESS program, 23:28521 (IDO-17258-H)
coolant loss accidents in water cooled reactors, containment and primary systems response and analytical models for LOFT-ESS, 23:28514 (IDO-17258-A)
coolant loss accidents in water cooled reactors, fission product behavior analytical models for LOFT-ESS, 23:28515 (IDO-17258-B)
coolant loss accidents in water cooled reactors, fission product sampling and decontamination techniques for LOFT-ESS, 23:28522 (IDO-17258-I)
coolant loss accidents in water cooled reactors, fuel heatup simulation tests for LOFT-ESS, 23:28519 (IDO-17258-F)
coolant loss accidents in water cooled reactors, LOFT instrument development support program for, 23:28520 (IDO-17258-G)
coolant loss accidents in water cooled reactors, LOFT semiscale blowdown and emergency core cooling simulation of, 23:28516 (IDO-17258-C)
coolant loss accidents in water cooled reactors, LOFT Integral Test Program for, 23:28524 (IDO-17258-K)
coolant loss accidents in water cooled reactors, ORNL fission product behavior analysis for LOFT-ESS, 23:28523 (IDO-17258-J)
coolant loss accidents in water cooled reactors, program plan summary for LOFT-ESS investigations of, 23:28513 (IDO-17258)
coolant loss accidents in water cooled reactors, scoping emergency core cooling heat transfer tests in LOFT-ESS program on, 23:28517 (IDO-17258-D)
coolant loss conditions in TREAT, effects on fuel element failures of, (E), 25:41509
coolant loss conditions in TREAT, fuel rod failure under, 24:33416
coolant loss experiments in TREAT, calculation of gamma dose rates inside containment shells during, 21:44842 (IDO-17238)
coolant loss from LOFT reactor, total fission product gamma dose after, 21:44843(R) (IDO-17239)
coolant loss simulation in TREAT, reactions of Zircaloy-2-clad urania fuel clusters during, 21:46837 (ANL-7325, pp 136-78)
coolant loss tests in LOFT, analysis by FLASH-2 computer code of, 22:5976
coolant losses in LOFT, analyses of blowdown stresses due to, 21:46906
coolant temperature effects on excursion behavior of highly enriched plate core in SPERT III, 21:27800 (IDO-17138)
coolant temperature profiles in TREAT, effects of oxide and carbide fuel power transients on, 22:32735 (ANL-7310, pp 249-375)
coolant-loss accident model for LOFT, using FRACREL and NURLOC codes, (T), 21:5601 (BMI-1779)
cooling system for LOFT, effect of pump and valve seal leakage rates on warmup and cooldown of, (T), 23:52405 (GEMP-621)
cooling system heat balance power calibration in Spert III high-power transient testing, 23:7400(R) (IDO-17279)
core design for LOFT with Zircaloy-clad fuel, 21:34157 (IDO-17219)
core design for LOFT, calculational methods for stainless clad, 21:27680 (IDO-17235)
core for LOFT, use of thermal symmetry to simulate post-blowdown heatup temperature transients in, 23:11256(R) (IDO-17265)

core for TREAT, design parameters for softer spectrum, 22:30118 (ANL-7438)
core for TREAT, fission neutron density ratios and neutron flux lethargy distributions in, 22:32735 (ANL-7310, pp 249-375)
core for TREAT, physics parameters for thermal-to-fast converters for, 22:32735 (ANL-7310, pp 249-375)
core for TREAT, physics parameters of fast neutron converter region, 24:47877 (ANL-7610, pp 259-367)
core heat transfer and kinetics for LOFT, (T), 23:52406(R) (IDO-17302)
core loading analysis in LOFT blowdown tests, comparison of techniques for, 22:37532(R) (IDO-17242)
core meltdown in liquid metal-cooled fast reactor by TREAT, analysis of simulated, 22:39813
core reactivity measurements in Spert III E-, 21:19464(R) (IDO-17207)
core support design for LOFT, 21:8092
critical flow in core coolant channels, analysis of steam-water, 21:13947(R) (ANL-7286)
criticality studies by computer program analysis for, 22:14293 (DP-1121)
cross-spectral density measurements in SPERT-III E-core, 21:45345(R) (IDO-17234)
data processing system for LOFT, 23:41131(R) (IDO-17299)
decontamination spray system for LOFT, effects of heat losses on, 25:34690(R) (IN-1457)
description of French, 22:18464
description of French, 23:17674 (CEA-CONF-1109)
description of LOFT, 22:39774 (IDO-17272)
description of SPERT 3 E-core, 23:17252 (IDO-17291)
description of Spert 3 E-core uranium oxide (UO_2)-fueled, 22:35596(R) (IDO-17260)
design and construction of LOFT, 22:12063
design and operation of LOFT, SPERT, and TREAT, 21:23659
design data for LOFT, tables of, 21:25630(R) (ORNL-4071)
design modifications of TREAT, for photographic observation of fuel meltdown experiments, 25:15384 (ANL-7578)
design objectives of LOFT, 24:46090
design of LOFT, 21:23602(R) (IDO-17187)
design of LOFT, 21:44843(R) (IDO-17239)
design of LOFT, analysis of nuclear, 21:12220(R) (IDO-17186)
design of Mark II integral sodium TREAT loop, 24:33448
design of Spert-III Core-C, 21:23719 (IDO-17223)
design parameters for Capsule Driver Core for SPERT 4, 23:47268 (IN-1313)
design parameters of Japanese pulse reactor for, 25:44162
design parameters of LOFT, 25:6104
design parameters of TREAT, 24:18701 (CONF-690910-, pp 52-8)
destructive testing of SNAPTRAN-2, 21:23602(R) (IDO-17187)
destructive testing of Snaptran-2, fission product release and dispersion from, 21:30254 (IDO-17194)
development and status of LOFT, 21:15771
development for in-pile tests of LMFBR safety, bootstrap concept of, 25:15380
development of GREET, for gas-cooled reactors, 21:5687 (GA-6178(Suppl.2))
development of GREET, for gas-cooled reactors, 21:5685(R) (GA-6178)
development of GREET, for gas-cooled reactors, 21:5686 (GA-6178(Suppl.1))
development of, review on, 21:15731
emergency core coolant injection in LOFT, boron poison concentration in, (T), 22:37532(R) (IDO-17242)
emergency core coolant injection in simulated LOFT tests, heat transfer mechanisms during, (E), 22:37532(R) (IDO-17242)
emergency-coolant-spray, effectiveness of, 21:31898(R) (ANL-7329)
evaluation of SNAPTRAN-2, nuclear and physical, 21:12220(R) (IDO-17186)
evaluation of, for determining hazards of uncontrolled plutonium oxidation, 21:8802 (RFP-799)
excursions in SPERT pressurized-water oxide core mockup, effects of cold-startup and hot-standby conditions on short-period, 22:48648(R) (IDO-17271)
excursions predictions for Spert-I type, 21:42831
experimental capabilities of TREAT, for liquid metal cooled fast breeder reactor safety programs, 25:57069(R) (ANL-7800)
experimental facilities and techniques for TREAT, development of, 24:18700 (CONF-690910-, pp 38-51)
experimental facilities of TREAT, 24:18701 (CONF-690910-, pp 52-8)
experimental facilities of TREAT, description of proof testing for Mark 2 sodium loop, 24:47877 (ANL-7610, pp 259-367)
experimental facilities of TREAT, oxide meltdown performance in Mark 2 sodium loop, 24:47877 (ANL-7610, pp 259-367)
experimental facilities of TREAT, sodium slug impact stress loading of Mark 2 sodium loop, (T), 24:47877 (ANL-7610, pp 259-367)
experiments irradiated in TREAT, description of shipping cask for, 23:49572 (ANL-7410, pp 229-337)
fission gas release to fuel rod plenum during LOFT tests, (T), 22:37532(R) (IDO-17242)
fission product abundance at meltdown time in, 21:30345(R) (IN-1063)
fission product behavior in accidents, proposed scale-up experiments on, 21:8125 (ORNL-4021)
fission product behavior in LOFT, characterization of, 22:7816(R) (ORNL-TM-2057)
fission product behavior testing in LOFT, assistance program for analytical model support of, 22:46910 (ORNL-4265)
fission product behavior under reactor coolant-loss accident simulation in Contamination-Decontamination Experiment, 23:23939 (IN-1172)
fission product concentrations during LOFT, continuous sampler-monitor for measurement of, 25:34690(R) (IN-1457)
fission product diffusion from clad urania fuels in Nuclear Safety Pilot Plant tests, 21:15661 (ORNL-TM-1698)
fission product distribution in TREAT, tabulated data of, 21:25630(R) (ORNL-4071)
fission product release for LOFT, simulation of, 21:40571(R) (ORNL-TM-1913)
fission product release from fuels in TREAT, simulation of prompt, 21:40571(R) (ORNL-TM-1913)
fission product release from LOFT, parametric studies of the effects of time and temperature on, 21:25630(R) (ORNL-4071)
fission product release in Nuclear Safety Pilot Plant runs, 21:1222 (ORNL-TM-1588)
fission product release in TREAT simulation of water-reactor transient accidents, 21:38699
fission product release sampling in LOFT, effectiveness of removable plateout capsules for, (E), 22:37532(R) (IDO-17242)
fission product release studies in TREAT, 22:1772(R) (ORNL-TM-1986)
fission product removal in LOFT, effects of spray injection on, 22:20909(R) (ORNL-TM-2095)
fission product removal under LOFT conditions, charcoal filters for methyl iodide, 21:31916 (CONF-660904-Vol.1 and 2, pp 199-229)
fission product sampling and packaging from LOFT-ECCS, 23:10 (IN-1203, pp 69-101)
fission product sampling systems for LOFT, development of, 21:46906
fission product transport and deposition studies for LOFT, 22:1772(R) (ORNL-TM-1986)
flowmeters for LOFT, development of drag disk, 21:8640(R) (IDO-17211)
fluid density measurements in semiscale blowdown facility, γ attenuation method for two-phase, (E/T), 25:48286 (IN-1487)
fuel capsule fabrication for TREAT, processes for plutonium dioxide—uranium dioxide-loaded, 24:4827 (ORNL-4440, pp 3-28)
fuel cladding failure analysis in LOFT, TCP code for, 22:37532(R) (IDO-17242)
fuel cladding reactions with water in SPERT 4, effects of energy bursts on Type-304 stainless steel and Zircaloy 2, 23:4378
fuel depletion calculations for Zircaloy-clad core of LOFT, using TURBO code, 21:27681 (IDO-17236)
fuel element cladding for, calculation of temperatures of Zircaloy, 22:27416(R) (ORNL-4228)
fuel element fabrication for meltdown studies in TREAT, 24:25767 (ANL-7417, pp 23)
fuel element failure behavior in TREAT, use of transparent autoclave for observation of excursion accident, 24:18708 (CONF-690910-, pp 378-400)
fuel element failure in SPERT transient tests, 21:35750
fuel element failure in TREAT, effects of coolant loss on Zircaloy clad uranium oxide (UO_2) rod type, (E), 25:34392(R) (ORNL-4647)
fuel element failure in TREAT, effects of coolant loss on Zircaloy clad uranium oxide (UO_2) rod type, (E), 24:22431(R) (ORNL-4511)
fuel element failure in TREAT, transient tests on Zircaloy clad, 24:36051(R) (ORNL-TM-2984)
fuel element failure in TREAT, transient tests on Zircaloy clad, 24:46071(R) (ORNL-TM-3061)
fuel element failure limits in SPERT 4, analysis of Type 304 stainless steel-clad uranium oxide (UO_2) pellet-type, 23:4377
fuel element failure tests in TREAT, heat transfer analyses of EBR-II, 21:38572
fuel element failure transient testing in TREAT, evaluation of irradiated Zircaloy clad, 24:18688 (ORNL-TM-2774)
fuel element irradiation in TREAT, analysis of stainless steel clad plutonium nitride—uranium nitride, (T), 25:28687 (BMI-1898, Sect.A)
fuel element irradiation in TREAT, analysis of stainless steel clad plutonium nitride—uranium nitride, (T), 25:44118(R) (BMI-1905)
fuel element mechanical properties in SPERT-1, effects of transient power increase and waterlogging on, 22:30170
fuel element meltdown in TREAT simulated excursion accidents, 22:27397 (ANL-7375, pp 135-59)
fuel element meltdown in TREAT, analysis of sodium cooled Type 304 stainless steel clad uranium oxide (UO_2), (E), 24:7175
fuel element meltdown in TREAT, power pulse testing of EBR-2, (E/T), 24:43798
fuel element performance in SPERT 4 CDC, effects of transient over-power conditions on uranium oxide (UO_2), (E), 24:36047(R) (IN-1319)
fuel element performance in TREAT, effects of loss of bond failure on EBR-2 driver, (E/T), 24:43797
fuel element power transients in TREAT, analysis of sodium cooled Type 340 stainless steel clad uranium oxide (UO_2) pellet type, (E), 24:7176
fuel element radiation levels following LOFT critical experiment, (T), 22:37532(R) (IDO-17242)
fuel element rupture testing in SPERT, analysis of, 21:38703
fuel element rupture testing in SPERT, mechanical energy release in, 21:38702
fuel element swelling in SPERT, effects of impurity carbon on, 25:49570 (IN-ITR-115)
fuel element testing in TREAT, design changes to allow fast reactor, 23:49572 (ANL-7410, pp 229-337)
fuel element testing in TREAT, effects of flowing sodium on EBR-2 Mark I, 22:32735 (ANL-7310, pp 249-375)
fuel element testing in, radiation and transient effects on partial-burnup fast oxide, 22:32735 (ANL-7310, pp 249-375)
fuel element transient heating to failure in TREAT, 24:11185 (ANL-7552)
fuel element transient irradiation in, remote fabrication process for, 24:16741 (CONF-690910-, pp 759-74)
fuel element transient testing in Transient Reactor Test (TREAT), failure analysis of uranium oxide (UO_2), 23:9237(R) (BNWL-907)
fuel elements for SPERT 3 E-core, deformation analysis of Type 348 stainless steel-clad uranium oxide (UO_2) pellet-type rod-shaped, 23:17252 (IDO-17291)
fuel elements for SPERT 4 CDC, deformation analysis of Type 304 stainless steel-clad uranium oxide (UO_2) F-type, 23:17252 (IDO-17291)
fuel elements for SPERT 4 CDC, design characteristics of Zircaloy 2-clad uranium oxide (UO_2) pellet-type rod-shaped SPX, 23:17254(R) (IDO-17294)
fuel elements for SPERT 4 CDC, failure testing assemblies of Type 304 stainless steel-clad uranium oxide (UO_2) pellet-type rod-shaped SPX, 23:17250(R) (IDO-17287)
fuel elements for SPERT 4 CDC, failure testing assemblies of Zircaloy 2-clad uranium oxide (UO_2) pellet-type rod-shaped SPX, 23:17254(R) (IDO-17294)
fuel elements for SPERT 4 CDC, inspection of Type 304 stainless steel-clad uranium oxide (UO_2) F-type, 23:17250(R) (IDO-17287)
fuel elements for SPERT IV, transient neutron radiation effects on stainless steel-clad uranium oxide (UO_2) pellet-type, 22:33066
fuel elements for TREAT liquid sodium Mark 2 loop, effects of coolant loss conditions on pin type, 25:41541
fuel elements for TREAT liquid sodium Mark 2 loop, energy release from failed pin type, 25:41538
fuel elements for TREAT, fuel-sodium interaction during meltdown of uranium oxide (UO_2) pin type, 25:41542
fuel elements for TREAT, fuel-sodium interaction during meltdown of, 25:41482
fuel elements for TREAT, sodium boiling during overpower transient on unfailed pin type, 25:41540
fuel elements in TREAT, effects of coolant loss conditions on failure of Zircaloy clad uranium oxide (UO_2) rod type, (E), 25:23342 (ORNL-4635)
fuel elements in TREAT, effects of power transient fission gas pressure on failure of mixed oxide, 25:6098
fuel elements in TREAT, effects of power transients on performance of liquid sodium cooled mixed oxide pin type, 25:6016
fuel elements in TREAT, effects of transient radiations on Zircaloy-2-clad uranium oxide (UO_2) rod, 22:32984
fuel elements in TREAT, failure limits for mixed oxide pin type, 25:6096
fuel elements in TREAT, meltdown of uranium oxide (UO_2) pin type, 25:6097
fuel elements in TREAT, physical post-test examination of, 21:25630(R) (ORNL-4071)
fuel elements of SPERT 4 CDC, failure testing of LMFBR Type 304 stainless steel clad, (E), 24:36065(R) (IN-1370)
fuel elements of SPERT Capsule Driver Core, particle size distribution from power burst failure of uranium oxide (UO_2) rod type, 25:8075 (IN-1428)
fuel elements of SPERT4 CDC, failure testing of irradiated stainless steel clad and unirradiated Zircaloy-2 clad uranium oxide (UO_2) and plutonium oxide (PuO_2)-uranium oxide (UO_2), (E), 24:36065(R) (IN-1370)
fuel elements of TREAT, effects of power transients on performance of Zircaloy clad uranium oxide (UO_2), 24:7190
fuel elements of TREAT, meltdown testing of uranium oxide (UO_2) S-3, 24:47877 (ANL-7610, pp 259-367)
fuel meltdown in sodium, 21:46837 (ANL-7325, pp 136-78)
fuel meltdown in sodium loop in TREAT, effects of high specific energy input on, 21:38573
fuel meltdown in TREAT, 21:30093(R) (ANL-7317)
fuel meltdown in TREAT, fast neutron hodoscope observation of, 25:41552
fuel meltdown in TREAT, summary of studies on, 22:53450
fuel meltdown in, Type 304 stainless steel-clad urania, 21:46837 (ANL-7325, pp 136-78)
fuel meltdown loop for TREAT, description of instrumentation for sodium, 22:32735 (ANL-7310, pp 249-375)
fuel meltdown measurements on vibrationally compacted uranium oxide (UO_2) rods in TREAT, 22:24925(R) (ANL-7427)
fuel meltdown studies in TREAT, 21:13946(R) (ANL-7279)
fuel meltdown studies in TREAT, 21:13947(R) (ANL-7286)
fuel meltdown studies in TREAT, 21:21755(R) (ANL-7302)
fuel meltdown studies in TREAT flowing sodium loop, 21:40537 (ANL-7349, pp 115-33)
fuel meltdown studies in TREAT, ceramic, 22:12006(R) (ANL-7399)
fuel meltdown studies in TREAT, fast reactor, 21:42725(R) (ANL-7357)
fuel meltdown studies in TREAT, metallic, 22:9988(R) (ANL-7391)
fuel meltdown studies with TREAT, 21:12231(R) (ANL-7267)
fuel meltdown testing in TREAT, 21:8109
fuel meltdown testing in TREAT, 21:8108
fuel meltdown testing in TREAT, improvements in fast neutron hodoscope used in, 22:28076
fuel microanalysis after Kiwi destructive test, PBF, 21:18203(R) (IDO-17218)
fuel pin explosive burst testing in SPERT, feasibility of, 23:37506(R) (GEAP-5677)

fuel pin failure in flowing sodium, TREAT testing of oxide fast, 24:33450
fuel pin failure tests in TREAT, heat transfer analysis of EBR-II, 21:38572
fuel pin failures in TREAT sodium coolant loop, method for analysis of, (E/T), 25:57110 (CONF-710302-(Vol.1), pp 97-101)
fuel pin meltdown in TREAT, preliminary performance data on fast neutron hodoscope for studying, 24:7234
fuel pin thermal properties for LOFT, calculation of optimum, 23:4272(R) (IDO-17264)
fuel pins for LOFT effects on reactivity of variations in, 23:11256(R) (IDO-17265)
fuel processing for LOFT, 21:5991(R) (IDO-14680)
fuel rod failure in SPERT-4, generation of mechanical energy from, 22:6095(R) (IDO-17245)
fuel rod failure testing in SPERT 4 Capsule Driver Core, summary of Zircaloy-2 clad pelletized uranium oxide (UO_2), 23:15676(R) (IDO-17289)
fuel rod meltdown in TREAT, photographic studies of water-logged urania, 21:38733
fuel rod performance in Spert IV Capsule Driver Core, failure testing of F-type, 23:7400(R) (IDO-17279)
fuel rods for SPERT, design characteristics of F-type, 22:48648(R) (IDO-17271)
fuel-water reactions in TREAT, 21:30216
fuels from SPERT-III, equipment and methods for shipping, 25:48877 (DPSPU-71-124-4)
gamma heating in LOFT core during operation, QAD-B code analysis of, 22:37532(R) (IDO-17242)
heat transfer in LOFT, calculations of, 21:8096
heat transfer in LOFT, calculations using NURLOC code, 21:15641(R) (BMI-1790)
heat transfer in TREAT, with high temperature water-immersed aluminum fuel plates, measurements of transient, 23:47690 (ANL-7563)
heat transfer models for LOFT meltdown program, computer programs and numerical methods for analysis of annular ring and X-Y, 21:8640(R) (IDO-17211)
heat transfer properties of simulated LOFT core, radiation and convection, 21:8640(R) (IDO-17211)
hodoscope for TREAT, description and schematic for digital photographic readout system for fast neutron, 23:49572 (ANL-7410, pp 229-337)
in-pile loops for TREAT, development of Mark 1 and Mark 2 liquid sodium, 24:18700 (CONF-690910-, pp 38-51)
instrumentation for TREAT, design and performance of fast neutron hodoscope, 24:47877 (ANL-7610, pp 259-367)
instrumentation for TREAT, performance of fuel element motion detection, 24:47877 (ANL-7610, pp 259-367)
insulation material evaluation for LOFT, high-temperature water immersion, 21:8640(R) (IDO-17211)
iodine releases at NRTS to assess radioiodine behavior, results of planned, 21:31928 (CONF-660904-Vol.1 and 2, pp 1169-74)
iodine retention on filters in LOFT, 21:30255 (IN-1078)
kinetic behavior of SPERT-3 E-core, temperature-dependent, 22:5957
kinetic measurements in Spert-III Core-C, in transient tests, 21:23719 (IDO-17223)
kinetics for SPERT 3 E-core, analysis of prompt moderator heating, (T), 23:17250(R) (IDO-17287)
large-loop-test-section for TREAT, calibration mockup of, 21:30091(R) (ANL-7210)
loop for TREAT, calculation of expansion of supercritical sodium vapor released in test, 23:49572 (ANL-7410, pp 229-337)
loop for TREAT, design of Mark II sodium, 21:30091(R) (ANL-7210)
loss-of-coolant accident in TREAT, fuel element failure in, 24:16217 (ORNL-4400, pp 118-26)
loss-of-coolant simulation in TREAT, 21:25935(R) (ANL-7225)
loss-of-coolant studies in TREAT, analysis of energy sources in, 21:13947(R) (ANL-7286)
meltdown analysis in LOFT, annular ring and X-Y models for, 21:12220(R) (IDO-17186)
meltdown experiments in TREAT, single pin loop analyses, 21:30091(R) (ANL-7210)
meltdown experiments in TREAT, use of Mark I integral sodium loop, 21:30091(R) (ANL-7210)
meltdown models of LOFT, 21:12219(R) (IDO-17167)
meltdown of clad-urania fuels in TREAT, 21:7967
metal—water reactions at high temperatures, TREAT studies on, 21:14037
metal-water reactions during meltdown of Zircaloy-2-clad urania fuel rods in TREAT, 21:40537 (ANL-7349, pp 115-33)
metal-water reactions in loss-of-coolant accidents, TREAT studies on, 21:13947(R) (ANL-7286)
metal-water reactions in TREAT experiments, 21:25630(R) (ORNL-4071)
meteorology studies at NRTS for LOFT, 22:10375(R) (IDO-12059)
monitoring equipment for LOFT, development of continuous containment atmosphere sampling, 25:23330 (CONF-700816-(Vol.2), pp 653-67)
monitoring equipment for LOFT, performance of continuous containment atmosphere sampling, 25:23331 (CONF-700816-(Vol.2), pp 668-82)
monthly progress report on TREAT, Argonne National Laboratory, 22:37401(R) (ANL-7457)
monthly progress reports on TREAT, Argonne National Laboratory, 22:35422(R) (ANL-7445)
neutron converter section for TREAT core, design of fast, (T), 25:41502 (ANL-7816)
neutron detector calibration constants for Spert III from flux wire activation data, 23:7400(R) (IDO-17279)
neutron hodoscope for TREAT, circuit diagrams for amplifier discriminator boards for fast, 22:32735 (ANL-7310, pp 249-375)
nuclear explosion mockup in KEWB, underwater, 21:34160 (USNRDL-TR-67-45)
operation of TREAT, 21:23589(R) (ANL-7308)
operation of TREAT during November 1970, 25:10164(R) (ANL-7758)
operation of TREAT, calculations for fast reactor simulation by, 24:1061 (BMI-1868, Sect.A)
operation of TREAT, Dec. 1966, 21:13947(R) (ANL-7286)
operation of TREAT, during April and May 1971, 25:41365(R) (ANL-7825)
operation of TREAT, during August 1971, 25:60005(R) (ANL-7854)
operation of TREAT, during July 1971, 25:51026(R) (ANL-7845)
operation of TREAT, during June 1971, 25:48234(R) (ANL-7833)
operation of TREAT, during March 1971, 25:31533(R) (ANL-7798)
operation of TREAT, Nov. 1966, 21:13946(R) (ANL-7279)
operation summary for TREAT, February 1969, 23:23848(R) (ANL-7553)
operations summary for TREAT, 22:16265(R) (ANL-7403)
operations summary for TREAT during April—May 1969, 23:37444(R) (ANL-7577)
operations summary for TREAT, April and May 1970, 24:38470(R) (ANL-7688)
operations summary for TREAT, August 1968, 22:50699(R) (ANL-7487)
operations summary for TREAT, August 1969, 24:1963(R) (ANL-7606)
operations summary for TREAT, August 1970, 24:52850(R) (ANL-7737)
operations summary for TREAT, December 1968, 23:19461(R) (ANL-7527)
operations summary for TREAT, December 1969, 24:18581(R) (ANL-7655)
operations summary for TREAT, December 1970, 25:15339 (ANL-7765)
operations summary for TREAT, February 1970, 24:24781(R) (ANL-7669)
operations summary for TREAT, February 1971, 25:25957(R) (ANL-7783)
operations summary for TREAT, January 1969, 23:19462(R) (ANL-7548)
operations summary for TREAT, January 1970, 24:18582(R) (ANL-7661)
operations summary for TREAT, July 1968, 23:4164(R) (ANL-7478)
operations summary for TREAT, July 1969, 23:45047(R) (ANL-7595)
operations summary for TREAT, July 1970, 24:45993(R) (ANL-7726)
operations summary for TREAT, June 1968, 22:42158(R) (ANL-7460)
operations summary for TREAT, June 1969, 23:45046(R) (ANL-7581)
operations summary for TREAT, June 1970, 24:43686(R) (ANL-7705)
operations summary for TREAT, March 1969, 23:26018(R) (ANL-7561)
operations summary for TREAT, March 1970, 24:28983(R) (ANL-7679)
operations summary for TREAT, November 1968, 23:13409(R) (ANL-7518)
operations summary for TREAT, November 1969, 24:13520(R) (ANL-7640)
operations summary for TREAT, October 1968, 23:11154(R) (ANL-7513)
operations summary for TREAT, October 1969, 24:9077(R) (ANL-7632)
operations summary for TREAT, October 1970, 25:8047(R) (ANL-7753)
operations summary for TREAT, September 1968, 23:11153(R) (ANL-7500)
operations summary for TREAT, September 1969, 24:4023(R) (ANL-7618)
operations summary for TREAT, September 1970, 25:1848(R) (ANL-7742)
performance of spray cooling devices of light water power reactor, 21:10146
physics calculations for LOFT, computer programs for, 21:12219(R) (IDO-17167)
physics calculations of power distributions in TREAT test fuels, 25:58344(R) (LA-4693)
physics characteristics of LOFT core, effects of control rod and fuel pin configuration on, 22:22819(R) (IDO-17241)
physics measurements for Capsule Driver Core for SPERT 4, 23:47268 (IN-1313)
physics measurements for EBR-2 and GETR fuel pins in TREAT, 24:31041(R) (BNWL-1381-1)
physics measurements in pulsed SPERT, simulation of large core dynamics by, (E/T), 24:36065(R) (IN-1370)
physics measurements of excursions in SPERT III pressurized-water reactor, analysis of, 22:33030
power distribution calculations for LOFT, computerized variational synthesis techniques for, 22:1766(R) (IDO-17240)
power excursion in SPERT 3 E-core, description of unplanned, 23:15676(R) (IDO-17289)
power level effects on excursion behavior of highly enriched plate core in SPERT III, initial, 21:27800 (IDO-17138)
power transient testing of E-core of SPERT-3, 22:6095(R) (IDO-17245)
pressure and temperature effects in KEWB, measurement of, 21:40575(R) (STL-372-50)
pressure transducer assemblies for TREAT integral sodium loops, stand-off, 21:30091(R) (ANL-7210)
pressure transducers for TREAT, design parameters and testing of NaK isolating, 24:4084 (ANL-7107)
pressure vessel for LOFT, nil-ductility transition temperature calculation for, 21:44843(R) (IDO-17239)
pressure, temperature, and fission heat variation in TREAT, effects of time on, 21:25630(R) (ORNL-4071)
pump for TREAT, design of in-pile loop liquid sodium annular induction, 23:7680
pump stress analysis in, use of computers for, 21:22066 (I-A-2412-4-1)
pumps for Mark 2 loop of TREAT, development of annular linear induction, 23:4354
pumps for TREAT sodium loop, development of annular linear induction, 22:32735 (ANL-7310, pp 249-375)
pumps for TREAT, development of Mark-2 in-pile loop liquid sodium annular linear-induction, 22:44884 (ANL-7369)
radiation dose rates in containment building following LOFT emergency core cooling system test, (T), 22:37532(R) (IDO-17242)
radiation from LOFT, measurement of total direct gamma, 21:44843(R) (IDO-17239)
radiation monitoring program for LOFT, design of, 25:16168
radiation monitoring system design for LOFT, 21:45345(R) (IDO-17234)
radiation target cans for TREAT, development of, 24:18700 (CONF-690910-, pp 38-51)
radioactive contamination in, on-line computer analysis of, 21:1156 (BNWL-CC-700)
radiological aspects of SNAPTRAN-2 test, (E), 21:34150 (IDO-17203)
radiological studies on plateout in LOFT, 21:30147(R) (IDO-17214)
reactions of aluminum—uranium oxide cermets with water in, 21:5598 (ANL-7125, pp 150-99)
reactions of metal-clad uranium dioxide with water in TREAT, 21:5598 (ANL-7125, pp 150-99)
reactions of Zircaloy-2-clad urania fuel clusters in coolant loss simulation, 21:46837 (ANL-7325, pp 136-78)
reactivity accident tests in oxide-fueled SPERT-3, comparison of CHIC-KIN and PARET calculations of, 23:4281
reactivity accident tests on SPERT III E-core, nuclear behavior during nondamaging, 23:21516 (IDO-17281)
reactivity analysis of SNAPTRAN-3, destructive experiment using TSN code, 21:35720 (NAA-SR-9780(Add.1))
reactivity feedback during short-period power excursion in SPERT-1, Doppler, 21:19465 (IDO-17224)
reactivity measurements for large loop and test-section mockup in TREAT, 21:31898(R) (ANL-7329)
reactivity measurements in Capsule Driver Core in SPERT IV, 21:1206(R) (IDO-17206)
reactivity measurements in SPERT III E-core, 21:1206(R) (IDO-17206)
reactivity of SNAPTRAN-1, energy feedback coefficient for, 21:12219(R) (IDO-17167)
reactivity oscillations in SPERT, simulation of natural circulation boiling reactor, 23:33044
reactivity transients in SPERT, one-point model for calculation of, (T), 22:44913
reactivity transients in SPERT-III E-core, prompt moderator heating feedback effects on, (E/T), 25:60179
reactor kinetic measurements in SPERT 3, results of simulated pressurized water, 23:28445
sampler-monitor for LOFT, description of continuous, 23:19512(R) (IDO-17266)
shield for TREAT Mark II sodium loop, development of thermal neutron, 24:33449
shutdown mechanisms of Spert-I type, theoretical self-limiting inherent, 21:42831
simulation of EBR-2 Mark-1 fuel pin bond failure, survival analysis for TREAT, 23:4225
simulation of EBR-2 Mark-1 metallic driver fuel pin bond failure, transient behavior of TREAT, 23:4226
simulation of fast reactor zero-burnup plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type fuel element failure, analysis of TREAT, 23:4224
sodium coolant flow coastdown transients in TREAT, analysis of, 22:32735 (ANL-7310, pp 249-375)
sodium coolant for TREAT, hydrodynamics equations for, 22:32735 (ANL-7310, pp 249-375)
sodium loop experiments in TREAT, analysis of metallic fuel meltdown in, 22:12006(R) (ANL-7399)
sodium loop for TREAT, standards, quality control, and fabrication of integral, 23:49572 (ANL-7410, pp 229-337)
sodium vapor void fraction profiles in TREAT, effects of oxide and carbide fuel power transients on, 22:32735 (ANL-7310, pp 249-375)
SS materials accountability procedures at LOFT and SPERT, 22:6204 (IDO-17246)
status of fast, review of, 21:25686
steam void measurements for LOFT, use of gamma-ray attenuation for, 21:8640(R) (IDO-17211)
steam—water density in LOFT, ultrasonic void fraction detector for measurement of, 25:3905 (IN-1441)
steam-void collapse and growth in KEWB, measurements of transient, 21:7897(R) (STL-372-30)
subassembly testing in Burst Irradiation Facilities, 21:19793 (CONF-660511-, pp 8.1.1-30)
temperature calculations for TREAT, analog-digital computer program for transient, 22:14122 (ANL-7374)
temperature coefficient for SNAPTRAN, comparison of calculation and measurement of, 21:38567
temperature coefficient for, analytical determination of, 22:32735 (ANL-7310, pp 249-375)
temperature profiles for FHUST and MODY-simulated, comparison of, 23:19512(R) (IDO-17266)
test program for SPERT 4 Capsule Driver Core, schedule for FY 1969 and 1970, 23:47268 (IN-1313)
testing in NSPP of prototype LOFT, 22:10012 (ORNL-TM-1908(Pt.1))
testing of FFTF fuel elements in TREAT, hazards analysis for, 24:48859 (BNWL-1368)
testing of Spert 4 Capsule Driver Core, analysis of transient, 22:35596(R) (IDO-17260)
testing program for TREAT, review of, 22:18515

testing programs in CDC of SPERT 4, review of fuel rod failure, 24:50123
testing SPERT ID, pressure generation mechanisms in destructive, 21:7897(R) (STL-372-30)
testing uranium dioxide—zirconium oxide in TREAT, 22:11068
transient accidents in TREAT, simulated, 21:25630(R) (ORNL-4071)
transient behavior of Spert 4 Capsule Driver Core, analysis of short period, (E), 22:44890(R) (IDO-17270)
transient behavior of uranium oxide (UO_2)-fueled Spert 3 Oxide Core Kinetics Test E-core, analysis of 0.67 to 1.25$ step reactivity, (E/T), 22:44890(R) (IDO-17270)
transient behavior of zirconium-hydride-uranium fuels in SNAPTRAN, 21:44938 (IDO-17204)
transient conditions in SNAPTRAN-1 nondestructive test series, analyses of, 21:35648 (NAA-SR-11850)
transient effects on fuel rods in Capsule Driver Core in SPERT IV, 21:1206(R) (IDO-17206)
transient sodium behavior under accident conditions in TREAT, 22:16265(R) (ANL-7403)
transient testing in SNAPTRAN-1, 21:8027
transient testing of mixed oxide fuels in SPERT, 25:5996
transient testing of oxide E-core in Spert III at elevated initial power, 23:7400(R) (IDO-17279)
transients in sodium superheating, pressure and temperature, 21:13946(R) (ANL-7279)
transients in TREAT, properties of irradiated urania pins prior to, 21:30091(R) (ANL-7210)
transients in TREAT, system for computer control of prompt critical, 24:33424
TREAT core use as fast-flux loop-meltdown facility, 21:8098
use of SPERT 3 and SPERT 4, for kinetics of uranium oxide (UO_2) fueled pressurized water reactor, 24:16160 (BNL-50117, pp 275-305)
use of TREAT core as a fast flux loop meltdown facility, 21:30091(R) (ANL-7210)
use of TREAT, for meltdown analysis of Zircaloy-2-clad pelletized and vibra-packed uranium oxide (UO_2), 22:53260 (ANL-7425, pp 130-71)
vessel atmosphere analysis in LOFT, 23:10 (IN-1203, pp 69-101)

Reactor Shielding
see Shielding

Reactor Shielding Materials
see Shielding Materials

REACTOR SIMULATORS
see also Computers

accuracy of Chezem-Helmick coupled-core analog, 22:35687
AIROS II-A program for dynamics reactor behavior, 21:46966 (NAA-SR-12452)
analog computer model for dynamics of steam-cooled direct-cycle fast reactor, description of, 23:7386(T) (EURFNR-496)
analog control studies for HTGR steam generator, 21:7870 (GAMD-6992)
analog system for PFB, use for fault tree analysis of transient rod drive system of, 23:9195 (IDO-17274)
BRENDA code for boiling heavy water dynamics, 21:21646 (RISO-129)
computer codes for pressurized water, FLASH-3 FORTRAN 4, 24:11218 (WAPD-TM-800)
control system for 0.1 MW(e) boiling, 22:22787(R) (ORNL-4216)
control system for Manchester and Liverpool Universities', description of analog computer, 22:12104
coolant loss accident simulation for LOFT system, use of analog system for, 21:44843(R) (IDO-17239)
description for Magnox and AGR systems, 22:7921
description of analog iterative model of coolant density in channels of pressure-tube boiling reactor, 22:20820 (RT/ING-(67)16)
description of analog, for analysis of hydraulic and nuclear stability of boiling light water-cooled heavy water-moderated reactors, 22:20777 (BNWL-574)
description of analog, for analysis of nuclear rocket engine dynamic behavior, 22:32953
description of Babcock and Wilcox PWR, 24:18525
description of General Electric BWR, 24:18526
description of hybrid analog—digital, for optimization of plant control, 22:49009
description of Westinghouse PWR, 24:18524
design and operation of desalting-plant, 21:15760(R) (TID-23511)
design and performance of SNAP-8, 21:38628 (NASA-TN-D-4095)
design and performance of, using Costanza—Cylindrical code, 21:15648 (EUR-3171.e)
design characteristics of analog, analysis of, (T), 23:4272(R) (IDO-17264)
design of analog computer, for pressurized-water maritime reactors, 21:13965 (EUR-3111.i)
design of analog computer, for pressurized-water plants using space—time core equations, 21:13966 (EUR-3112.i)
design of electronic, for start-stop processes, 21:42769
development at ORNL, Sept. 1969—Aug. 1970, 25:13318(R) (ORNL-4620)
development in Japan of power reactor, 23:43219
development in Japan of reactor operator training, 23:43220
development in U.S. for power plant operator training, 24:40793
development of analog computer, for power reactor transients, (T), 24:52782
development of analog computer, for pressurized water reactor dynamics, (T), 24:52859
development of analog computer, for pressurized water reactor control systems, 24:52864
development of digital, for fast reactor dynamics characterization, 21:40564(R) (NAA-SR-12395)
development of hybrid analog and digital computers, 25:1919 (BNWL-1498)
development of hybrid computer, for graphite moderated gas cooled power reactor kinetics, 25:1869 (CEA-CONF-1580)
development of hybrid computer, for reactor kinetics, 25:1870 (CEA-CONF-1582)
development of hybrid, for analysis of reactor transients, 24:38628
development of memory and logic circuits for AGR type reactor control analysis, 24:38399
development of Monte Carlo digital computer program for reliability analysis, 24:16315
digital input to analog system for natural circulation boiling, 22:35482
display system for hybrid digital computer, description of four color CRT, 24:29042 (BNWL-1330)
dynamic characteristics for self-regulated power reactor by, effects of natural and forced circulation in one- and two-circuit systems on, 23:2007 (FEI-114)
malfunction mockups using boiling water, description of programmed, 23:28395
model analysis by analog and digital computers, description of heat transfer transients in self-pressurized pressurized-water reactor, 22:53290
modeling coolant loss accidents in pressurized water reactors, nodal sensitivity in, 25:31592 (CONF-710302-8)
multidecade simulations by, use of hybrid computer automatic rescaling techniques for, 23:45138 (BNWL-1099)
nonlinear dynamic analog and digital computer, description of fast power reactor, 23:13439 (AE-341)
Nuclear Engine Analysis Program, use for NERVA analyses, 21:14054 (TID-23654)
operation for NERVA analysis, 21:27791 (NASA-TN-D-3979)
operation for verification of Peach Bottom safety system, 21:23600(R) (GA-7830)
operation of analog, for analysis of FR-O, 21:14062 (AE-262)
operation of deactivated Hanford Production Reactors control center, 23:37684
operation of personnel training, for 600 MW and 800 MW reactors, 25:6208
operation of personnel training, for boiling reactors, 25:6209
operation of personnel training, for power reactor operator license examinations, 25:6212
operation of personnel training, for pressurized water reactors, 25:6210
operation procedures for 800 MW(e) boiling reactor digital computer real-time, 23:47344
operation procedures for hybrid computer, for production reactors, 25:3920 (BNWL-B-8)
operations personnel training using, description of program for, 23:37425
performance of analog and digital computer, for reactor kinetics analysis, 23:52476
performance of analog computer, for boiling water power reactors, 25:3933
performance of analog computer, for error analysis of power reactor neutron flux and period measurement control systems, 22:39819
performance of complex analog and digital computer, 24:33243
performance of digital computer display system, for phase space analysis of reactor kinetics, 25:10311
performance of digital computer, effects of data processing methods on, 22:53469
performance of digital computer, for fast liquid metal cooled reactor automatic control system, 25:28804(T) (EURFNR-835)
performance of digital computer, for neutron flux in AGR type reactors, 25:1871 (RD/B/N-1749)
performance of hybrid computer for analysis of digital computer control schemes, 24:38509
performance of hybrid computer for dynamics simulation of fast cores, 24:38497
performance of hybrid computer, for core dynamics of 1000 MW(e) fast reactor, 24:33544 (ANL-7626)
performance of hybrid computers for analysis of nuclear rocket propulsion systems, 24:38617
performance of hybrid computers for analysis of two-phase flow during blowdown transients, 24:38533
performance of hybrid computers for generation of stochastic models of noise spectra, 24:38629
performance of hybrid computers for, review of, 24:38621
performance of log scaled, for reactor kinetics analysis, 23:52475
performance of pulsed neutron source in non-multiplying medium, for neutron flux characteristics, (E/T), 25:3932
performance of resistance analog computer for transient heat transfer analysis, 24:38631
program for analog computer potentiometer setting record and storage in linked analog-digital, 22:48753 (LA-DC-9838)
program for xenon spatial oscillation effects on stability, 25:10306 (NP-18547)
reactivity insertion accident analysis using TAPIRO reactor analog, description of, 22:39883
review of CEA, using analog and hybrid computers, 24:20743 (CEA-CONF-1451)
startup analysis of natural convection water cooled power plants using analog, (E/T), 23:40356
transient analysis in uranium-233 fueled MSRE with analog, 23:37483 (ORNL-4397)
Transient Engine Simulation Program, use for NERVA operation analysis, 21:14050 (TID-23639)
UHXCOM program for dynamics of UHTREX system, 21:7883 (LA-3561)
use for control system analysis for liquid metal cooled fast breeder reactors, use of digital and analog computers for, 23:49549 (BAW-1330)
use for development of on-line digital computer control systems, 23:40344
use for operator training of computerized, evaluation of, 23:43073
use for safety studies of advanced gas-cooled reactors in Japan, 23:15660
use for simulation of reactor conditions of, error analyses and evaluations of, 23:40440 (CONF-690401-, pp 391-414)
use for tabulation of Dounreay flux and reaction rates, 24:34923 (BNWL-1349-1, pp 5.1-33)
use for training U.S. power reactor personnel, 25:39221 (CONF-710416-, Paper 11)
use in analysis of graphite reactors, 21:19426
use in analysis of xenon spatial oscillations, 21:21641 (KAPL-M-6596)
use in evaluating coefficients of reactivity in heterogeneous reactors, 21:31978
use in evaluation of IGR reactivity, 21:31972
use in nuclear power engineering, 23:40322
use in optimization of dual-purpose desalting plants, 21:10199 (ORNL-TM-1564)
use in reactor operator training, 21:35635
use in temperature calculations for reactor cores, 21:34143
use in transient analysis for space thermionic reactors, 21:19453
use of analog and digital computer, for analysis of breakdowns in complicated reactors, 23:2136
use of analog and digital computer, for calculating the effects of heat capacities and time delays on thermal transient requirements of LMFBR-type reactor components, 23:4282
use of analog and digital computer, for optimum core performance of boiling reactors, 25:18151
use of analog and digital computers, for ESSOR reactor control rod calibration, 23:9135
use of analog and digital computing methods for fast steam-cooled reactor cooling system dynamics, (T), 23:13573 (KFK-786)
use of analog computer for 1000 MW(e) single fluid molten salt breeder, 23:40340 (ORNL-TM-2489)
use of analog computer for 250 MW ORGEL Reactor forced flow heat transfer system dynamics, 23:15619 (EUR-4092)
use of analog computer for automatic speed control in Aborigine reactor gas turbine rig, description of, 23:4295 (AAEC/TM-472)
use of analog computer for comparison of digital computer calculation of fast and thermal reactor physics measurements, (T), 23:15708 (BNWL-940)
use of analog computer for testing PBF acoustic filter, description of, 23:4272(R) (IDO-17264)
use of analog computer for training operators of natural-uranium gas-cooled and water-cooled power reactors, description of, 23:11371
use of analog computer for, multiloop control program development, 21:14105 (BNWL-348)
use of analog computer MIDAS circuit for PRTR transient analysis, 23:13539(R) (BNWL-921)
use of analog computer, for analysis of power reactor multiple parameter systems, 24:36006 (ZJE-73)
use of analog computer, for control characteristics of MPRE, 23:28587 (ORNL-TM-1494)
use of analog computer, for cooling system of superheating reactors, 24:9101
use of analog computer, for design of boiling heavy water power reactor automatic control system, 25:39155 (IAEA-119, 12p.)
use of analog computer, for development of 1000 MW(e) single fluid molten salt breeder reactor control system, 25:31544 (ORNL-TM-3102)
use of analog computer, for dynamic analysis of salt—supercritical water heat exchanger for MSBR, 23:13486 (ORNL-TM-2405)
use of analog computer, for effects of loss of single coarse control arm blade on power transients in HIFAR, 23:19520 (AAEC/TM-479)
use of analog computer, for marine reactor kinetics and thermodynamics, 25:37093 (CEA-CONF-1750)
use of analog computer, for multi-node analysis of FFTF primary loop tube and shell heat exchanger heat transfer, 23:23954 (BNWL-CC-664)
use of analog computer, for Peach Bottom Power Reactor Unit 1 control and safety system transient testing, 23:9095 (GAMD-7900)
use of analog computer, for reactivity meter simplification analysis, 22:18586 (CONF-661056-1)
use of analog computer, for reactivity meter simplification analysis, (T), 22:18594
use of analog computer, for rod-drop method calculation of reactor less-than-unity effective multiplication factor, 23:13574(T) (ORNL-tr-2084)
use of analog computer, for teaching research reactor control and design parameter analysis, 23:26126 (AAEC/TM-498)
use of analog computers for economic optimum power reactor development, 23:11165(T) (JPRS-47209, pp 74-89)
use of analog computers for noise analysis of reactors, description of, (E/T), 23:2113
use of analog, digital, and hybrid computers as, for training of reactor operators, 23:31237 (CONF-681058-1)
use of analog, for mapping operation of tungsten-reactor rocket engine, 21:25703 (NASA-TN-D-3840)
use of analog, for reactor design and personnel training, 23:9136
use of analog—digital calculator for, 21:46876
use of analytical and digital computers for, for optimum control analysis, (T), 23:49555
use of computer, for training boiling water reactor operator personnel, 24:50134
use of digital computer with CAESAR, AILMOE, and GRISM program linking for single-run calculation of region-dependent neutron spectrum, 23:13403 (AI-AEC-12721, pp 43-5)

- use of digital computer, development of, program for, 23:13402 (AI-AEC-12721, pp 5-27)
- use of digital computer, for automatic control characteristics of liquid sodium cooled fast reactors, 25:10186 (KFK-1179)
- use of digital computer, for calculating fast reactor design parameters, 25:23392 (ANL-7713)
- use of digital computer, for optimum design of power conversion system for gas cooled power reactors, 24:13586
- use of digital computer, for training operation personnel of pressurized water reactors, 24:24722
- use of digital computer, for training pressurized water reactor operator personnel, 24:50135
- use of digital-analog computer for, 21:46888
- use of GE/PAC 4020 process digital computer, for training of boiling power reactor personnel, 23:45150
- use of Hanford D Reactor for operator training, 23:43211 (DUN-SA-88)
- use of hybrid analog computers, for optimum fast reactor core design, 25:15406 (NP-18646)
- use of hybrid computer for ATR, description of console mockup for operator training, 23:33119 (IN-1228, pp 111-13)
- use of hybrid computer, for control of liquid sodium cooled fast power reactor, 23:49548(T) (ANL-Trans-771)
- use of hybrid computer, for coolant temperature control schemes for liquid metal cooled reactors, 25:10185 (CEA-R-3988)
- use of hybrid computer, for neutron density transients in LMFBR, 24:4037 (AD-692446)
- use of hybrid computer, for reactor dynamics, (E/T), 23:49552
- use of hybrid computers for large nuclear power plant, mathematical techniques for, 23:40315 (CONF-690401-, pp 369-90)
- use of hybrid, for nuclear rocket propulsion system analysis, 23:2083 (LA-DC-9642)
- use of IBM 7094 digital computer for, testing direct digital control system by, 22:6066
- use of inverse electrical, for design of power distribution control system, 23:49674
- use of Nomad 3 analog computer for Monte Carlo shielding calculations, description of, 23:13471 (AERE-R-5773(Vol.3), pp 904-34)
- use of RELAPSE 3 and MOXY computer programs for heat transfer conditions during coolant loss accidents in LOFT ECCS, 23:13540 (CONF-680832-5)
- use of remote computer, for nuclear engineering instruction, 25:6193
- use of two TR-10 Pace analog computers and Hanford D Reactor control room for training of reactor operators, 23:31175 (DUN-5381)
- use of, for automatic control systems analysis, 21:12174
- use with steam turbine for power plant operator training, 25:39168

Reactor Stability
  - see Reactivity

Reactor Testing Station
  - see National Reactor Testing Station

REACTOR THERMAL COLUMNS
  - see also Reactor Experimental Facilities
- camera for liquid metal diffraction recording, design and performance of neutron diffraction, 21:41288
- critical experiments in AARR internal, 21:38681
- design for DOSAR thermal neutron facility, 22:2272 (ORNL-TM-2009)
- design for Italian RC-1 reactor, 21:21773 (RT/ING-(66) 19)
- development of variable-energy, 24:52374(P)
- neutron flux in NRL Research Reactor, measurement of thermal, 23:4296 (AD-671182)
- neutron flux measurements in PRCF, 21:23711(R) (BNWL-340)
- neutron spectra converter for Juggernaut, design of, 21:12230 (ANL-7244)
- performance of Kyoto University Reactor heavy water-cooled, analysis of, 23:9198 (KURRI-TR-28)
- physics characteristics of AARR internal, 21:30091(R) (ANL-7210)
- sample handling equipment for, design of pneumatic, 21:12243
- use at IRR-1 during 1965, 21:8041 (IA-1082, pp 1-19)
- use in burnup parameter determinations for irradiated fuel pins by measurement of fast neutron production, (E/T), 22:48749 (AE-326)

REACTORS
  - see also Army Reactors
  - see also Critical Assemblies
  - see also Exponential Piles
  - see also Naval Reactors
  - see also Reactors, AGR-type
  - see also Reactors, Aircraft
  - see also Reactors, Beryllium-Moderated
  - see also Reactors, Boiling
  - see also Reactors, Breeder
  - see also Reactors, Canada
  - see also Reactors, CANDU-type
  - see also Reactors, Enriched
  - see also Reactors, Fast
  - see also Reactors, Fluid-Fueled
  - see also Reactors, France
  - see also Reactors, Gas-Cooled
  - see also Reactors, Gas-Fueled
  - see also Reactors, Germany
  - see also Reactors, Graphite-Moderated
  - see also Reactors, Great Britain
  - see also Reactors, Heavy Water-Moderated
  - see also Reactors, Heterogeneous
  - see also Reactors, Homogeneous
  - see also Reactors, Hydrogen-Moderated
  - see also Reactors, India
  - see also Reactors, Intermediate
  - see also Reactors, Japan
  - see also Reactors, Liquid Metal-Cooled
  - see also Reactors, Maritime
  - see also Reactors, Molten-Salt
  - see also Reactors, Organic-Cooled
  - see also Reactors, Organic-Moderated
  - see also Reactors, Pebble-Bed
  - see also Reactors, Power
  - see also Reactors, Pressurized-Water
  - see also Reactors, Process-Heat
  - see also Reactors, Production
  - see also Reactors, Reflector-Moderated
  - see also Reactors, Research
  - see also Reactors, Rocket
  - see also Reactors, Sodium-Graphite
  - see also SReactors, Sweden
  - see also Reactors, Swimming-Pool
  - see also Reactors, Test
  - see also Reactors, Thermal
  - see also Reactors, U.S.S.R.
  - see also Reactors, Water-Cooled
  - see also Reactors, Water-Moderated
- accident analyses for, summary of, 22:12054
- accident analysis for, description of one-dimensional computer program for maximum hypothetical, 22:25124 (BNWL-612)
- accident analysis for, using existing data, 21:15641(R) (BMI-1790)
- accident conditions in, fission product deposition under, 21:38439(R) (BMI-X-10193)
- accident conditions in, formation of iodomethane under, 22:2017 (BMI-1816)
- accident in, techniques for iodine 131 measurement following, 23:34912
- accident models for, development of consistency in, 25:31603
- accidents at Hanford, installation for treatment of injuries following, 22:36270
- accidents in, analysis of aerosol release for, 25:31619
- accidents in, analysis of environmental hazards from hypothetical, 21:7880 (IA-1082, pp 217-34)
- accidents in, biological significance of radioactive fallout contamination of river water following extreme, 25:8660 (HMI-B-87)
- accidents in, calculation of γ radiation dose from fission product release following hypothetical, 25:6707
- accidents in, comparison of determinism and probability analysis concepts for, 25:3896
- accidents in, comparison of determinism and probability analysis concepts for, 25:3895
- accidents in, comparison of late mortality risk from leukemia and thyroid carcinomas in personnel following hypothetical, 25:6808
- accidents in, computer method for calculation of radiation dose to human population following release of radioisotopes to atmosphere during, 25:42393 (BNWL-B-69)
- accidents in, computer programs for fission product dispersion to environment from, 23:4288
- accidents in, containment of fission products during, 21:31918 (CONF-660904-Vol.1 and 2, pp 371-88)
- accidents in, design of explosives for simulation of runaway, 21:46928(P)
- accidents in, filtration technology developments for, 22:25333 (ORNL-4229, pp 162-79)
- accidents in, fission product escape integral concept analysis of radiation hazards for, 25:31621
- accidents in, instrumentation for environmental radiation monitoring following, 25:39273 (JAERI-1193)
- accidents in, iodine deposition during, 22:22749
- accidents in, iodomethane formation by, 21:22411 (ORNL-4076, pp 141-74)
- accidents in, large-scale simulations of loss-of-coolant, 21:25935(R) (ANL-7225)
- accidents in, listing of computer programs for analysis of, 25:60127
- accidents in, Mean Annual Severity quantitative analysis of, (T), 23:33069
- accidents in, methyl iodine formation in simulated, 23:29022
- accidents in, PILAX code for calculation of radiological risks following, 25:44135 (CEA-R-4136)
- accidents in, production of aerosols in, 21:25687
- accidents in, radiation dose to man from radioisotopes released in, 25:18974 (AHSB(S)R-192)
- accidents in, release of radioactive materials to atmosphere from, 22:16356 (KR-116)
- accidents in, review of 1945 to 1961 world-wide, 23:37558 (NP-17851, pp 15-24)
- accidents in, review of U.S. safety programs on, 25:60132
- accidents in, tabular summary of, 22:12044
- accidents involving operation of, review of, 21:1762
- accidents occurring at, listing, analysis, and classification of, 24:4080
- accidents of, radiation exposure of persons in environment of, 21:12882
- accidents with, medico-legal aspects of, 21:26436
- accidents, effects on contamination of environment by fission products, 21:24406 (IA-1090)
- Advisory Committee on Reactor Safeguards for, listing of members of 1968, 22:22753
- aerosols released in accidents in, characteristics of, 24:52949 (EURFNR-816)
- air-cleaning systems for removal of iodine and methyl iodide in, 21:25687
- alarm system for heat rise in, description of transducer melting plug-activated boiling liquid-generated acoustic, 22:42563(P)
- alarm systems for cooling system failure and fuel element leakage in reactors, description of gas-activated whistle, 22:42410(P)
- analysis of, 1107 PHYSICS CHAIN Manual for, 21:27825 (BNWL-413)
- analysis of, impulse response and transfer function methods for dynamic, 21:38526
- ANL Reactor Physics Division Annual Report, 1 July 1967—30 June 1967, 23:49541(R) (ANL-7410)
- annual research report from Ames Laboratory July 1, 1966—June 30, 1967, 21:42845(R) (IS-1600)
- applications in therapy, 23:45609 (CNM-R-2(Vol.2), pp 797-825)
- argon-14 monitoring near, gamma spectrometer for, 22:45357(R) (UCRL-50007-68-1)
- argon-41 from, calculation of radiation dose due to, 21:22438
- Argonne National Lab. annual report, July 1, 1966-June 30, 1967, 22:32733(R) (ANL-7310)
- autocorrelation function for, use of statistical properties of stochastic processes for calculating, 23:11329 (RCN-98, pp 27-39)
- auxiliary equipment in, performance of metallic seals for viewing parts in pressurized, 22:1891
- auxiliary power supplies for, availability and reliability of, 25:41438 (EUR-4517, pp 179-99)
- behavior of, comparison of reflected slab and bare pulsed time, 21:27678(R) (GEAP-5276)
- bibliographies on, 23:11385 (STI/DOC-11(Vol.6)(No.3))
- blasting near, control measures for, 22:35956
- blowdown calculations for, use of NURLOC-1 for, 21:40539 (BMI-1807)
- blowdown of two-phase two-component media, analysis of rarefaction wave propagation in, (T), 22:33182
- boilers for water, design of once-through, 21:43190(P)
- boilers for, design of integral, 21:23682(P)
- boilers for, digital computer calculation of transient conditions for, (T), 24:50236
- Boltzmann equations for, C/sub N/ method of approximating, 23:4424
- book: Analysis of Reactor Vessel Radiation Effects Surveillance Programs, 25:32755
- book: Annual Review of Nuclear Science, Vol. 18, 23:11394
- book: Basic Nuclear Engineering, 23:52318
- book: Certain Questions of Reliability of Nuclear Reactors, in Russian, 23:21551
- book: Computing Methods in Reactor Physics, 23:2114
- book: Control and Electronics of Nuclear Reactors, 22:30273
- book: Coolants For Nuclear Power Engineering Installations, 21:13993(T) (JPRS-38717)
- book: Design of Nuclear Plants, 22:10013(T) (AEC-tr-6722)
- book: Dynamics of Nuclear Reactors, 25:39342
- book: Energy Conversion, 22:31679
- book: Engineering Design and Structural Analysis of Nuclear Reactors, 21:23625(T) (AEC-tr-6640)
- book: Fast Neutron Spectra Penetration in Various Materials of Nuclear Reactor Shielding, in Russian, 24:36015
- book: Gas Dynamics of Two-Phase Media (In Russian), 25:10772
- book: Installation of Nuclear Reactors, 24:33177
- book: Introduction to Reactor Physics, 22:30274
- book: Mathematical Methods in Nuclear Reactor Dynamics, 25:46335
- book: Nuclear Chemistry, 21:36053
- book: Nuclear Heat Transport, 25:60222
- book: Nuclear Radiation and Atomic Reactors, in Russian, 22:35520
- book: Nuclear Reactor Instrumentation (In-Core), 24:50253
- book: Nuclear Reactor Materials, 22:15137
- book: Nuclear Reactor Physics 7th Refresher Course of the Vaudoise Association on Research in Physics, 21:27782
- book: Nuclear Reactor Physics. A Collection of Articles, in Russian, 24:4147
- book: Nuclear Reactor Physics. Number 2, 24:47963
- book: Optimal Control of Nuclear Reactors, 24:50207
- book: Physics of Heat Transfer in Nuclear Reactors, in Russian, 25:46260
- book: Pressure Vessel Engineering Technology, 25:49346
- book: Problems in Reactor Shielding Physics, 24:13632
- book: Problems in the Physics of Reactor Shielding, 24:43728(T) (JPRS-51083)
- book: Problems in Thermal Physics of Nuclear Reactors, 24:33489
- book: Problems of Thermal Physics of Nuclear Reactors, 22:30391
- book: Proceedings of the First International Symposium on the Decontamination of Nuclear Installations, 21:43419
- book: Random Noise Techniques in Nuclear Reactors, 24:38495
- book: Reactor Material Science (In Russian), 23:43938
- book: Reactor Materials. Part 2. Ceramic and Powder-Metallurgy Materials (In German), 23:45987
- book: Reactor Physics in the Resonance and Thermal Regions, Vol. 2, Resonance Absorption, 21:9924
- book: Reactor Physics in the Resonance and Thermal Regions, Vol. 1, Neutron Thermalization, 21:9923
- book: Reactor Physics, Vols. 1 and 2, 22:42559
- book: space-time nuclear reactor kinetics, 24:18771
- book: Stresses in Shells of Revolution, 23:13917
- building materials for, fabrication history of, 21:28729 (BNWL-CC-236)
- building materials for, irradiation testing of, 21:28799(R) (HW-79345)
- building materials for, irradiation testing of, 21:26866(R) (HW-75500)
- building materials for, irradiation testing of, 21:26868(R) (HW-77281)
- building materials for, irradiation testing of, 21:31059(R) (HW-84517)
- building materials for, radiation testing of, 21:31054(R) (BNWL-CC-1053)
- building materials for, review of developments in, 21:14788
- burnable poisons for, MIRAGE-2 computer program for calculation of burnup limits for, 25:48340 (EUR-4559)
- burnable poisons for, sol-gel method for preparation of gadolinium oxide microspheres for use as, 25:10571 (EUR-4550)
- burnup calculations for, neutron cross sections for, 21:27502 (AAEC/TM-343)

calculations for, comparison of semiempirical methods with multigroup, 21:23628
calculations for, description of CARONTE modular system for linked, 23:40435 (CONF-690401-, pp 297-303)
calculations for, description of CODNUC modular system for, 23:40436 (CONF-690401-, pp 304-12)
calculations for, description of NCCS modular system for, 23:40437 (CONF-690401-, pp 313-23)
calculations for, effects of accuracy of nuclear constants on, 22:18107
calculations for, evaluation of fast-critical experiments as integral tests of ENDF/B, 24:7276
californium-252 production in, economic and physical aspects of, 23:31360 (CONF-681032-, pp 151-7)
calorimeter calibration for radiation heating measurements in, (T), 22:39918
calorimetry for dosimetry in, methods for, 22:18590(T) (UCRL-Trans-10217)
chemical studies in support of technology for, 24:9429(R) (IN-1314)
chemistry in, research progress on, 22:6313 (HMI-B-53)
chemistry of, developments in, 24:13874(R) (ORNL-4400)
chemistry of, research progress on, 24:36204(R) (ORNL-4586)
chemistry of, research progress on, 25:54531(R) (ORNL-4717)
chemistry of, research progress on, 22:16356 (KR-116)
chemistry of, research progress on, 1966, 21:21917(R) (ORNL-4076)
chemistry of, Swedish research progress on, 23:47480
chemistry research progress for, 22:25462(R) (ORNL-4229)
CHORD-S program for data on, description of hardware and procedures development for, 22:27416(R) (ORNL-4228)
circulating shield, design for space power, 21:30091(R) (ANL-7210)
classification system for, USA standards on, 25:25962
cleaning solution introduction system for, with hollow rods passing through reactor core, 23:9176(P)
coaxial cable for use in, development of radiation hardened, 25:18881(P)
codes and standards for, 22:30156 (ORNL-NSIC-43)
codes and standards for U.S, 23:23941 (ORNL-NSIC-57)
component construction for, legislative standards of, 22:32804
component fabrication for, description of machine tools for, 23:43446
component fabrication for, development of welding methods for, 24:8077
component in-pile fatigue testing, instrumentation for, 21:8640(R) (IDO-17211)
component life in turbulent fluid flow in, effects of acoustical fatigue on, 21:38766
component reliability in, development of techniques for prediction of, 22:53487
component reliability, conference on, 25:6062 (RISO-214)
component testing at Ispra, Italy, 1961 to 1967, 23:17645 (EUR-3940-3)
components and materials for, description of NRTS equipment for handling and testing of, 22:25571 (IN-1176)
components and systems for, mathematical model for determination of failure probability of mechanically and thermally loaded, 23:40377(T) (BNWL-tr-29)
components and systems for, mathematical model for failure probabilities for, 23:21553
components for, AUTOTEM computer program for thermal analysis of, 23:38159 (CONF-690401-, pp 519-41)
components for, cleaning standards for, 25:31676
components for, fault tree analysis of reliability of, 24:33361 (DUN-SA-139)
components for, Laplace-variational method for calculation of transient temperature distribution in, 24:19154
components for, method for application of antifriction coatings to structural, 23:36036(P)
components for, method for calculation of thermal shock-induced stresses in, 25:34776(T) (EURFNR-794)
components for, nondestructive method for testing metallic, 23:17716
components for, nondestructive testing methods for, 23:31502
components for, operating characteristics of equipment for ultrasonic testing of, 25:6485
components for, preoxidation method for zirconium alloy, 25:19180(P)
components for, problems with efficient fabrication of, 24:38640
components for, quality control scheme for fabrication of, 24:50254
components for, reliability analyses of, 25:18110
components for, review of Neratoom Group development and fabrication of, 23:21572
components for, standard for fabrication and testing of metal products for, 25:42817 (RDT-F-3-37-T)
components for, standards for cleaning and cleanliness of, 25:44089 (RDT-F-5-1-T)
components for, stress analysis of graphite, 23:35383
components for, TRACK II computer program for calculation of steady state and transient heat transfer for, 23:38161 (CONF-690401-, pp 586-610)
components for, vacuum brazing methods for fabrication of, 25:35327
components in, effects of unsteady two-phase flow on vibration of, (E/T), 24:52871 (ANL-7685, pp 91-111)
components of, computer program for calculating deflections and stresses in, 21:15787 (WAPD-TM-312(Add.1))
components of, evaluation of chemical vapor deposition for fabricating, (E), 22:8709 (ORNL-TM-2066)
components of, heat transfer characteristics of convectively cooled temperature dependent thermal conductivity, (T), 25:10203
computer programs for, bibliography of, 21:25565 (AED-C-34-01)
conference on mathematics for, Mexico, May 2 to 4, 1967, Vol. 1, 23:47235 (CNM-R-2(Vol.1))
conference on mathematics for, Mexico, May 2 to 4, 1967, Vol. 3, 23:47249 (CNM-R-2(Vol.3))
conference on radiation effects on materials for, Vienna, June 2 to 6, 1969, 24:14813 (STI/PUB-230(Vol.1))
conference on radiation effects on materials for, Vienna, June 2 to 6, 1969, 24:14814 (STI/PUB-230(Vol.2))
conference on radioinduced void formation in materials for, Reading, Eng., March 24 to 25, 1971, 25:58304
conference on water chemistry in, Rome, May 20 to 22, 1963, 22:27740
configuration of, effects of moderator level on control and xenon poison in enriched fuel element bundles on, 22:53293(P)
construction and operation of, listing of approved DRDT tentative standards for, 22:7816(R) (ORNL-TM-2057)
construction materials for, properties of, 21:30307
construction materials for, properties of zirconium oxide as, 22:17127
construction of, properties of chromium—iron—manganese—nickel—niobium—titanium alloy welding electrodes and wires for use in, 24:36911
construction of, welding methods for, 21:4920
containment and siting of, meteorological research for, 22:40242 (AECL-2787, pp 415-25)
containment buildings for, protective coatings for, 23:13824(R) (IN-1201)
containment concept for, description of subatmospheric pressure, 21:38495
containment design of, economics of ice systems for steam condensation, 21:38767
containment for, hydrodynamical analysis of spherically symmetric, 21:30092 (ANL-7214)
containment of, concrete pressure vessels for, 21:12171
containment of, concrete structure specifications for, 21:15788(T) (ORNL-tr-1466)
containment of, design of concrete vessels for, 21:2824 (GA-6949)
containment of, pressure vessel support for, 21:1497(P)
containment of, prestressed concrete vessels for, 21:15678
containment of, removal of noble gas fission products from, 21:27692 (ORNL-TM-1822)
containment of, structure fabrication for, 21:12169
containment of, water decompression effects on, 21:17452(R) (IITRI-578-P-21-25)
containment shells for, strength of thin-walled steel cylindrical, (E/T), 21:2843
containment structure for spherically symmetric, results of accident on primary, 21:27775
containment structure leakage, errors in estimating, 21:23751
containment structures for, designs for double, 21:12170
containment system size effects on fission product deposition in, model for analysis of, (E/T), 21:13983 (ORNL-4033)
containment systems for, air cleaning in, 21:40627
containment systems for, bibliography on, 21:40568 (ORNL-NSIC-36)
containment systems for, design parameters for, (T), 22:39908
containment systems for, September—October 1969 summary of research on integrity of, 23:43138
containment systems for, sorption measurements on coatings of, 21:38439(R) (BMI-X-10193)
containment vessel blowdown with flow-area changes in, analysis of, 21:27684(R) (IITRI-578-P-21-28)
containment vessel coatings for, mathematical model for finite thicknesses of, 21:21661
containment vessel construction, development of stainless steel cladding on heavy gage steel for, 21:30977(R) (EURAEC-1813)
containment vessel for, design of reinforced concrete, 21:44903(P)
containment vessel for, method for underground erection of, 21:5717(P)
containment vessel leakage for, computer program for calculation of, 21:44888
containment vessel safety tests for, review of, 21:25689
containment vessel testing using acoustic emissions, 21:30285 (IDO-17230)
containment vessels for, correlation of temperature with meteorological variables, 21:12146 (IDO-12055)
containment vessels for, deposition of radioactive materials on, 21:14103(R) (ORO-3414-2)
containment vessels for, design of blast shielding for, 21:23745 (IITRI-578-P-21-19)
containment vessels for, effects of sudden compression of reactor coolant on, 21:27684(R) (IITRI-578-P-21-28)
containment vessels for, fission product dispersion in non-quiescent atmosphere in, 21:35588(R) (TID-23868)
containment vessels for, standards development for air decontamination, 21:12258 (NYO-841-6)
contamination from, control of airborne, 21:26133(R) (NYO-841-4)
control and dynamics of, theory of automatic, 21:15753(R) (N-66-23593)
control and instrumentation systems for, conference on, 21:2840
control and operation of, use of on-line computers for, 22:35483
control and safety instrumentation systems for, high-performance, 21:27833 (ORNL-P-3011)
control and safety of reactors use of neutron thermopiles for direct, 23:41157
control and stability analysis of spatially dependent, 22:10073 (ANL-7322)
control by computers, heuristic algorithms and learning programs for, 23:40343
control by regulating pressure of absorbent gas, 21:4399(P)
control by sample-data analysis, stability analysis of, 21:25657
control by time-optimal system, (T), 21:25650
control materials development for, review of, 23:9263
control of coupled-core, linearized model for decoupling and multivariable, 23:37737
control of distributed parameter, model for optimum, 24:36082
control of distributed parameter, space-time description of power level changes for, 22:5987
control of distributed-parameter, direct technique for analysis of optimal, (T), 22:22876
control of large loosely-coupled, space-time effects on, 21:40550 (DUN-SA-35)
control of large, cross-power spectral density method for, 21:40577 (TID-23946)
control of liquid-moderated, design of moderator dump gate valves for, 21:21725(P)
control of multiregion, use of feedback for, 21:40597
control of pulsed, by measurement of subcritical state, (T), 22:18595
control of spatially dependent, application of variational synthesis methods to optimal, 24:11304
control of spatially dependent, optimal, 21:38583
control of spatially-dependent, analysis of optimum, (T), 22:25171
control of, analog-digital transducer device for, 21:7991(P)
control of, analysis of reactivity rate-constrained time-optimal, 23:19563
control of, classical calculus derivation of simple algorithm for optimum, (T), 23:26116
control of, comparison of anti- and cross-correlation functions for, 21:44823 (CEA-R-3221)
control of, comparison of anti- and cross-correlation functions for, 22:42396(T) (SC-T-68-1532)
control of, conference on use of nuclear electronics in, 21:1224 (STI/PUB-115)
control of, criteria for time-optimum, 21:10160
control of, derivation of algorithm for direct digital, 21:38570
control of, description of electronic equipment for, 21:34546
control of, design of log-n period system for, 21:358
control of, development of linear structural model with feedforward and feedback effects for, 24:7331
control of, development of modular instrumentation for, 21:32513
control of, development of modular instrumentation for, 21:32529
control of, efficiency of gas detector in electric system for, 21:4415
control of, electronic equipment for automatic, 21:19388 (UJV-1632)
control of, elementary physics of, 22:30273
control of, error analysis for cross-spectral and auto-spectral density measurements for, 22:1785
control of, frequency-response testing of, 21:40623
control of, method of, 21:4400(P)
control of, neutron detectors used in, 22:30273
control of, Newton sequential method for calculation of optimum, 24:36012
control of, nonlinear programming for optimum, (T), 25:6152
control of, operation of measuring channels for, 21:31980
control of, optimal stationary feedback law for digital computer, 24:41066
control of, Pontryagin theory of optimum, 22:20946
control of, Pontryagin's maximum principle method for optimum, (T), 22:22856 (ITEF-539)
control of, quantization, sampling frequency, and dispersion with correlation measurements in analyzing random signals in, 23:9792 (RCN-98, pp 101-30)
control of, review of University of Arizona research programs on, 24:16300 (BNL-50117, pp 106-39)
control of, time optimal digital computer method for, 21:10165
control of, use of analytical and digital simulators for analysis of optimum, (T), 23:49555
control of, use of boric acid for, 21:23768(P)
control of, use of Campbell method in instrumentation for, 21:22172
control of, use of computers for, 21:15786 (NP-16490)
control of, use of computers for, 21:15728
control of, use of non-1/V absorber materials for, 21:23678(P)
control of, using automatic motor-driven rods, 21:31974
control of, using period—power calculation units, 21:13953 (CEA-R-3026)
control of, using variable-pressure neutron absorbing gases, 21:15808(P)
control of, variational synthesis for optimal, 22:5986
control requirements for, effects on computer system structure of, 23:40347
control rod worth calculations for, method using diffusion codes, 21:27699
control rods for, design of ultrasonic position sensing system for, 21:43126(P)
control solution recovery loop in, flow diagram for boric acid, 22:39943(P)
control system component failures in, procedure for reporting, 21:2839
control system for pulsed, 21:31975
control system for, design of, 21:7998(P)
control system for, design of automatic power regulation device for, 21:2882
control system for, design of coolant temperature and reactor load, dependent, 21:5656(P)
control system for, design of fluid-operated, 21:30221(P)
control system for, design of transistorized fail-safe trip amplifiers for, 21:32516
control system for, using varying density of neutron-absorbing gas, 21:5651(P)
control system stability analyses, 21:34130

control system transfer function measurements using noise analysis, 21:30129 (CONF-660206, pp 439-53)
control system using neutron absorbing liquid in tube network, design of, 21:5645(P)
control systems design for, 21:15713(P)
control systems for U.S., performance of, 21:17492
control systems for, analysis of automatic, 21:12174
control systems for, design of, 21:23695(P)
control systems for, design of solid-state error detector for, 21:8653
control systems for, development at C.E.A, 21:34544
control systems for, electronic, 21:2897 (TRG-Report-933(Pt.2))
control systems for, stability analysis of sampled-data, 21:12191
control systems for, using magnetized bodies, 21:15717(P)
control systems of, noise calculations for, 21:34136
control theory for, asymptotically stable analysis of nonlinear, 21:38582
control using differentiating amplifiers, 21:31982
control using gaseous fuels, 23:26431(P)
control using triode logarithmic amplifiers, 21:31981
control with feedback of, development of stationarity and stability criteria for stochastic analysis of, 23:43202
coolant analysis for chlorine, gamma-gamma coincidence method for, 21:4 (AI-CE-35)
coolant behavior in, methods for predicting forced-convection, 21:30612 (IDO-17226)
coolant boiling detection in, review of methods for, 22:16311 (CONF-671011-, pp 41-55)
coolant boiling in rod arrays of, COBRA computer program for, 25:12784 (KFKI-70-20-RPT)
coolant boiling in, impedance method for determinating bulk, 22:24986
coolant boiling in, prediction of departure from nucleate, 21:31966
coolant boiling in, vibration transducer for detection of subcooled, (E), 24:47984
coolant burnout in, instrument for determining, 22:6679 (RISO-M-643)
coolant channel heat transfer in, effects of wall heat flux on, 21:8142
coolant channel kinetics in, analytical solution for, 21:14003
coolant channels for, Laplace and finite Hankel transform solution for dynamic analysis of response of, 23:7418
coolant channels of, analysis of axial temperature distributions in, (T), 22:48762
coolant expulsion from, effects of coolant-structure coupling on, 22:5956
coolant expulsion from, pressure distribution for axisymmetric two dimensional flow during, (T), 25:12808
coolant flow and mixing in rod bundle fuel elements in, 21:26045 (BNWL-371(Pt.1))
coolant flow channel fabrication for, 21:15800(P)
coolant flow control system for, description of movable partitions in concentric cylindrical sleeves for, 22:25186(P)
coolant flow distribution during transients, TAMER computer code for analysis of, 21:14112 (GAMD-7397)
coolant flow during blowdown, decompression effects on, 21:40557 (IITRI-578-P-21-29)
coolant flow in bundles of cylindrical fuel rods in, pressure drop and velocity distribution characteristics of, (T), 22:30360
coolant flow in core of, GAKIT computer program for temperature feedback in two dimensional heat transfer, 23:13413 (GA-8576)
coolant flow in rod-packed channels in, resistance and velocity fields in turbulent, 25:18576(T) (AEC-tr-7189)
coolant flow in rotating tube shaped, model analysis for, (T), 24:18770
coolant flow in, control by venturi tubes, 21:46977(P)
coolant flow in, design of device to control, 22:10466(P)
coolant flow in, effect on fuel element heat transfer of, 21:1517
coolant flow in, equations for transport of decaying activity through laminar and turbulent, 22:32961 (ANL-7310, pp 377-430)
coolant flow in, measurement of two-phase critical, 24:374
coolant flow in, multirod geometry measurements of two-phase, 21:5616(R) (GEAP-5207)
coolant flow in, use in actuation and movement of control rods, 21:31988(P)
coolant flow rate in, equipment and methods for measurement of, 22:8282(P)
coolant flow through, description of device for regulating, 22:12155(P)
coolant flow transients during pressure loss accidents in, use of Venturi tube measurements for analysis of, (T), 22:35674 (WAPD-TM-735)
coolant flow velocity in fuel elements of, effects of, 21:19495 (ANL-7261)
coolant flow-induced cavitation in, spectra of acoustical noise emitted by, 23:7425
coolant gas impurities in, use of microwave cavity resonators for determining, 22:4509
coolant heat transfer in, solution of differential equations for maximum, (T), 23:47330
coolant loop failure in, ground disposal of coolant from primary, 23:6278 (BNWL-SA-2016)
coolant loop for, description of overhead upward flow, 22:7868(P)
coolant loss accidents in LOFT ECCS, RELAPSE 3 and MOXY computer programs for analysis of heat transfer conditions during, 23:13540 (CONF-680832-5)
coolant loss accidents in, computer program for thermal analysis of, 21:40539 (BMI-1807)
coolant loss accidents in, effects on fuel cladding, 24:46703
coolant loss accidents in, fission product release during, 22:27490 (ORNL-4229, pp 149-55)
coolant loss accidents in, FLASH-2 program for simulation of, 21:40581 (WAPD-TM-666)
coolant loss accidents in, heat generation model for analysis of, 21:40539 (BMI-1807)
coolant loss accidents in, September—October 1969 summary of research on hypothetical, 23:43138
coolant loss in, liquid—vapor action mechanisms of blowdown from, 21:17435 (APED-5177)
coolant nucleate boiling in, use of infrared detectors for determining, 21:25750(P)
coolant pipe failure in, mechanisms of, 21:15730
coolant pipes for, fracture behavior under operating conditions of flawed steel, 25:22076
coolant pipes of, failure mode of Types A106B steel and 316 stainless steel, 23:46041 (BMI-1866)
coolant piping rupture in, relations of ductility with initiation and extent of, 24:29935(R) (BMI-1880)
coolant pump removal from pressure vessel of, device design for, 21:30311(P)
coolant pumps for, development of internal axial-mounted, 22:25147
coolant purification for, by ion exchange, 21:24105(P)
coolant system for, design of, 21:35782(P)
coolant-loss accident simulation in primary systems of, (E/T), 21:21659
coolant-loss accidents in, analysis using ACT-I code, 21:30177 (WAPD-TM-693)
coolant-loss accidents in, fission product release from, 21:7963
coolant-loss accidents in, water—zirconium reactions of, 21:8097
coolant-loss accidents of, mechanisms of sodium, 21:30093(R) (ANL-7317)
coolants and moderators for, device for measuring activity of, 21:14463(P)
coolants for, corrosive effects of lithium and potassium, 21:9055 (ORNL-P-2655)
coolants for, development of organic compounds for, 21:40712(P)
coolants for, effects of corrosion products and impurities on heat transfer in organic, 21:19342 (AECL-2642)
coolants for, effects of velocity on bubble formation in, 21:36240
coolants for, handbook on, 21:23699
coolants for, LUPO computer program for calculation of heat transfer and hydraulic behavior of, 22:10482 (EUR-3643)
coolants of, effects on neutron capture by uranium-238 in carbide fuels, 21:17534 (EUR-3152.e)
cooling channels in, effects of power flattening on hot channel factors for, (T), 25:39343
cooling channels in, power excursion transient heat transfer performance of, 25:10773
cooling channels in, use of Hankel transforms for Lie series analysis of transient temperatures in, 22:22704 (LA-3833)
cooling circuit structural materials for, hazards from activation of, 21:13998
cooling circuits in, decontamination of steel or zirconium, 21:39438(P)
cooling of, using magnetically stabilized jet-driven vortex flow, 21:45294 (ORNL-TM-1896)
cooling system channel burnout in, effect of nonuniform heat flow on, (E/T), 22:18580 (BAW-3238-13)
cooling system failure alarm for, description of melting plug-release gas-activated whistle for, 22:42410(P)
cooling system flow regulators for, description of radially finned cylindrical, 22:25198(P)
cooling system for description of cooling tubes embedded in fissile material for, 22:42241(P)
cooling system for integral heat exchanger-enclosed, description of sealed annular-shaped secondary flow, 22:42291(P)
cooling system for, analysis of reactivity self-controi by mass transfer in heat-pipe, 23:11168 (UCRL-71198)
cooling system for, description of dual interconnected piston-actuated temperature sensors for valve-operated flow control in, 22:48782(P)
cooling system for, description of gag valve regulating pressurized-fluid, 22:20972(P)
cooling system for, description of intermediate controlled-flow steam and superheat forced-flow, 23:2139(P)
cooling system for, design of channel closure valve for, 25:8401(P)
cooling system for, design of glandless pumps for, 25:54857
cooling system for, design of improved, 21:15805(P)
cooling system for, method for fabrication of coolant-fuel channels for, 25:11366(P)
cooling system for, structural design requirements for piping of primary, 25:18254
cooling system for, structural design requirements for piping of primary, 25:18255
cooling system for, structural design requirements for piping of primary, 25:18253
cooling system for, structural design requirements for piping of primary, 25:18256
cooling system for, using pressurized liquids, 22:18616(P)
cooling system heat transfer and fluid flow characteristics for, analysis of incompressible fluid, (T), 23:13485(T) (LA-tr-68-53)
cooling system heat transfer in slurry-fueled, 21:43152
cooling system integrity in, acoustic emission detector for detecting in presence of hydraulic noise, 23:37497
cooling system jet pump for, description of controlled reverse-flow, 23:2142(P)
cooling system metal component integrity monitoring in presence of hydraulic noise in, sensitivity of acoustic emission detection for, (E), 23:13483 (BNWL-933)
cooling system of, analysis of low cycle fatigue crack growth in pipes of, 24:13543(R) (GEAP-10072)
cooling system of, calculation of stationary modes of natural circulation in single phase, (T), 24:33497
cooling system of, probability analysis for failure in pipes of, 24:18631(R) (GEAP-10120)
cooling system of, probability analysis for failure in pipes for, 24:36016(R) (GEAP-10143)
cooling system pipes for, estimation of reliability of primary, 21:7878(R) (GEAP-5192)
cooling system pipes for, research on ductile rupture in, 24:12391(R) (BMI-1876)
cooling system piping for, bibliography on in-service failure of, 24:26750 (CEA-Bib-79(Add.1))
cooling system piping for, standards formulas for thermal stresses in, 24:1985
cooling system pump design for, 21:30228(P)
cooling system structural materials for, properties of Zircaloy-2, 22:19526
cooling system subsonic fluid flow for, analysis of losses in, 23:13587
cooling systems for, computer program for monitoring, 25:20710 (DP-1244)
cooling systems for, conference on stress analysis of, 25:54052
cooling systems for, coolant temperature variation program for thermal stress minimization in, (T), 24:50208
cooling systems for, corrosion-resistant materials for, 24:9997 (KFK-985, pp 113-33)
cooling systems for, design of improved, 21:15806(P)
cooling systems for, flow-induced vibration for, 22:1817
cooling systems for, heat transfer characteristics of, (T), 22:27501
cooling systems for, heat transfer in, (E/T), 25:46260
cooling systems for, heat transfer mechanics for boiling in, 22:30391
cooling systems for, inspection methods for pressurized, 22:30803
cooling systems for, inspection standards for materials subject to wear in, 25:44210 (RDT-F-3-7-T)
cooling systems for, method for calculation of convective transport and deposition of fission products in, 22:5964
cooling systems for, out-of-pile simulation of fission product behavior in, 22:33100 (RT/ING-(68)4)
cooling systems for, September—October 1969 summary of research on integrity of primary, 23:43138
cooling systems for, shock wave theory for burnout in, 24:2389
cooling systems for, sigma method for hot channel and hot spot statistical analysis in, 25:10194 (CEA-R-3895)
cooling systems for, testing of water additives for emergency, 22:25135(R) (SNE-38)
cooling systems for, theoretical efficiency of vapor, 23:7690 (DLR-FB-67-85)
cooling systems for, time behavior of heat transfer in two-loop, (T), 24:50232
cooling systems for, transient boiling in, (E), 21:1223 (SAN-1013(Vol.2))
cooling systems for, turbulent fluid flow and heat transfer in, (T), 21:17496
cooling systems of, analysis of failures in pipes of, (E/T), 22:35459(R) (GEAP-5587)
cooling systems of, deposition of fission products in, 21:40697 (ORNL-P-3205)
cooling systems of, fission product deposition and distribution in, (T), 25:20730
cooling systems of, fission-product dispersion in, 21:33954(R) (AECL-2687)
cooling water from, effects on plants and soils of irrigation with warm, 23:28655 (DUN-SA-59)
core access tubes for, design of end-cap seals for, 21:21811(P)
core assembly of liquid-moderated, description of flange-braced standpipes for multiple pressure tube, 22:25202(P)
core assembly of multi-tube, with calandria with standpipe terminated pressure tubes, 22:14362(P)
core clamping system for, description of upper and lower multi-shoe torsion bar-actuated, 22:37607(P)
core components for, conference on shock and vibration analysis of, 25:54051
core components for, conference on stress analysis in, 25:54050
core components in, conference on coolant-flow-induced vibration of, 24:52866 (ANL-7685)
core components in, effects of boundary layer pressure fluctuations on rod type, (T), 24:52869 (ANL-7685, pp 47-63)
core components in, effects of near-field noise on parallel-flow-induced vibrations of, (E), 24:52868 (ANL-7685, pp 32-46)
core components in, effects of near-field noise on parallel-flow-induced vibrations of, (E/T), 24:52867 (ANL-7685, pp 5-31)
core components in, effects of nearfield noise on parallel-flow-induced vibrations of rod type, (E/T), 24:52872 (ANL-7685, pp 112-40)
core components in, effects of structural support excitation on parallel-flow-induced vibrations of tube type, (E/T), 24:52870 (ANL-7685, pp 64-90)
core composition and configuration in, geometric programming method for optimization of, 25:31649
core configuration for, description of longitudinally elongated trifid fuel elements with three slab-type angularly displaced fins for self-aligning and self-supporting, 22:37590(P)
core configuration for, with means for assuring uniform neutron flux distribution, 25:20837(P)
core configuration for, with tube arrangement for introduction of gaseous poison, 25:20714(P)
core configuration of solid moderator, 22:3957(P)
core cooling systems for, reliability analysis of emergency, 21:46904
core corrosion protection for, metal plating method for, 22:28747(P)
core deformation under impulsive loading, analysis of cylindrical, (T), 22:22653(R) (ANL-7419)

core design calculations for, WIMS E program modules for, 25:44193 (EACRP-A-135, pp 21-9)
core design for, 21:4398(P)
core design for easy access, 21:30224(P)
core design for, adjoint trial spectra for calculating thermal group constants used in, 25:44202
core design for, using clustered rods with spaced guide tubes for control pins and coolant flow, 22:30398(P)
core design with solid interlocking moderator blocks, 21:21812(P)
core design with variable space between elements, 21:19506(P)
core for reflector-controlled, effects on specific mass of voids in, 22:16318 (UCID-15268)
core for, air—water mixing in two-channel model of, 23:45465 (WW-30-M-75)
core for, calculation of hot channel and hot spot factors for, (E/T), 24:46114
core for, description of natural circulation fluid fuel in vertical parallel channel, 24:11191(P)
core for, description of use of neutron moderator for obtaining constant thermal neutron flux over, 22:42251(P)
core for, description of varied moderator-to-fuel volume, 22:42249(P)
core for, design of cellular, 21:23779(P)
core for, design of long lifetime seed-blanket type, 21:19445(P)
core for, DINPEC-code for calculating temperature and power distribution in, 22:39784 (RT/FIMA-(68)1)
core for, equipment for remote positioning of thermocouples in, 25:20842(P)
core for, exact general solution for effective equally limiting hot channels in, (T), 24:11293
core for, formulation of equations for use of Compton recoil-continuum in continuous γ spectroscopy in, 23:49582 (ANL-7410, pp 339-86)
core for, mathematical expression for fuel concentration for thermal flux flattening in, 22:16323 (UJV-1904)
core for, plastic deformation determinations for, 22:16265(R) (ANL-7403)
core for, SSF computer program for calculating self-shielding factors for 2 region cell in, 24:16282 (ORNL-TM-2786)
core for, statistical model for calculating hot channel factors for, 22:50870
core for, synthesis method for uncertainty analysis of thermal design of, 22:18608
core gamma distribution in, use of Langevin's technique for analysis of data from gaseous Cherenkov detectors used in measuring, 22:30832
core grid and support structure for, 25:37149(P)
core grid structure for, with means for prevention of fuel element assembly vibration, 23:47348(P)
core handling safety in, description of control rod locking device for, 22:39926(P)
core lifetime in, optimal control theory model for optimization of, 25:54257
core loading and unloading, design of hoist for, 23:13914(P)
core materials for, fast neutron transmission in, (E/T), 25:34333(R) (COO-2049-4)
core measurements in, device for magnetic transmission of, 25:60245(P)
core neutron flux distribution in multizone, variational method for, (T), 21:21731
core neutron flux in one-dimensional, equations for, 21:14010
core neutron thermalization in, diffusion theory calculation of, 21:13949 (BMwF-FBK-66-20)
core neutronics calculations for, description of KINF Monte Carlo program for, 23:13571 (EIR-140)
core of liquid-moderated, description of corrugated-symmetric-wall-separated multiple calandria square-lattice, 22:25188(P)
core of uranium-238—metal and uranium oxides (UO$_2$) system for, numerical determination of neutron resonance parameters for, 23:9230 (UJV-1999)
core of, calculation of neutron first-flight scattering in, 21:14077 (JAERI-1072)
core of, calculation of temperature transients in cylinder shaped, (T), 24:2062
core of, description of internal reflectors to separate varying thermal neutron fluxes in, 23:11368(P)
core poisoning by fission products, calculation using CINDER, 21:8132
core power and temperature distributions, SCANAL computer program for, 23:49654 (GA-9423)
core power distribution in, determination of fuel temperature and moderator parameters from, 21:13991 (WAPD-TM-639)
core simulation of, testing of tungsten and uncarburized thoriated tungsten electron bombardment heater for, 22:33142
core solutions for, recovery of boric acid by ion exchange from, 21:24102(P)
core structural dynamics in, displacement—time responses from flow tests on, (E/T), 22:24925(R) (ANL-7427)
core structure for liquid-moderated, design of segmented, 21:19508(P)
core structure for solid-moderator, description of brick-type multiple hexagonal column key-coupled, 22:39945(P)
core structure for, computer analysis of fuel burnup in uranium and plutonium—uranium fueled graphite and heavy water moderated, 22:22832
core structure formation from solid moderator columns, 22:14323(P)
core structure vibrations in, analysis of flow-induced, 21:30093(R) (ANL-7317)
core support design, 21:23688(P)
core support for, MAIN computer program for stress analysis of coupled axisymmetric two-plate, 22:50836 (ANL-7162(Suppl.))
core support for, stress analysis for two axisymmetric interconnected multiregion plates for, (E/T), 22:10072 (ANL-7162)
core support grid for, description of multiple layer interconnected three-directional parallel vertical-edge strips in hexagonal, 22:48771(P)
core support materials for, friction and wear in carbon and graphite, 22:15250 (GAMD-8374)
core support structure for liquid-cooled, with hydraulic counterflow brake device, 22:39938(P)
core support structure for, description of cylindrical skirt with bearing plate separated multi-pillar compression bars, 22:14328(P)
core support structure for, description of positioning of upper, 22:42250(P)
core support structure for, with resilient load bearing columns, 23:40496(P)
core support structures for, conference on stress analysis of, 25:54052
core support structures for, description of concentric cylinders and graphite brick, 24:24926(P)
core support structures for, description of enclosed heat exchanger post type, 24:24925(P)
core support structures for, design parameters for rolling contact, 24:47990(P)
core tube spacers in, annular self-locking wedge ring support assembly for, 24:47982(P)
core void detection in, description of insulated wire in clad fuel element for, 22:18648(P)
core with interchangeable parts for, design of, 21:23685(P)
core—reflector interfaces in, neutron flux measurements at, 21:13943 (AECL-2580)
core-cooling systems for, reliability analysis of emergency, 21:46903
core-heat exchanger, description of pressure vessel-contained, 22:35693(P)
cores for undermoderated, effects of composite reflectors on reactivity of plutonium slab, (T), 24:38635
cores for, analysis of neutron response in coupled, 22:6005
cores for, calculation of convective transient heat transfer for, 23:38160 (CONF-690401-, pp 561-85)
cores for, CITATION code for depletion and dynamics analysis of, 24:16281 (ORNL-TM-2496(Rev.1))
cores for, computer program RABBLE for calculating resonance absorption in, 21:40533 (ANL-7326)
cores for, geometric buckling determinations for polygonal, 22:48800
cores for, hot spot factor analysis for cylindrical, 24:33287
cores for, kinetics calculations for systems of multiple, 21:40603
cores for, mathematical model for meltdown analysis for two weakly coupled, 23:28535
cores for, problems associated with high-velocity coolant flow induced vibration of, 22:7927
cores for, resistance analog computer for simulation of heat transfer in, 24:38631
cores for, three-dimensional analysis of plutonium fueled MTR-type, 21:23711(R) (BNWL-340)
cores for, time synthesis calculations for coupled-, 22:5982
cores for, transient thermal stress analysis in, 21:31897 (ANL-7294)
cores of, transport equation solution for water-moderated slab lattice, (T), 21:13952 (CEA-R-3014)
corrosion by liquid alkali metals in, 21:40710
corrosion of alloys and metals in, by water, problems in, 21:6761
coupled-cores for, determination of dynamic coupling coefficient for, 23:4438
coupling between core regions in, use of correlation and probability techniques for determination of, 23:52464 (RCN-110)
coupling of multicore, spectral-spatial effects on, 21:40616
creep measurements in, development of pneumatic gaging system for, 23:727
critical dimensions of, code for two-group two-region calculations of, 25:37122 (UARAEE-79)
critical mass and power output of, simultaneous differential equations for, 21:19397
critical mass of cylindrical-core, analytical continuation calculation of, 21:14030
critical mass of, use of constant thermal neutron density zones for minimization of, (T), 25:28809
critical mass reduction determination for, 21:23606 (LA-3651)
critical parameter of cavity-core, (T), 21:21742
critical parameters for hydrogen moderated enriched uranium fueled, three-groups diffusion theory calculations of, (E/T), 25:37124 (UARAEE-84)
critical parameters of one-dimensional multiregion, computer code for calculation of, 25:37126 (UARAEE-89)
critical parameters of, effects of neutron streaming in empty channels on, (T), 24:46113
critical parameters of, handbook on, 22:33123
critical size of bare, Lie series method for solution of multi-dimensional multigroup diffusion equation for, 25:60233
critical size of slab, use of Lagrange multipliers for optimization of, 25:51237
critical size of unreflected slab, calculation of, 21:21736
criticality accidents in, design of equipment for separation of krypton and xenon from gas streams in, 22:8253(R) (K-1725)
criticality accidents in, performance of activation detectors for measuring fast neutron dose from, 25:10181
criticality analyses of pulsed, method for ensuring consistent, (T), 25:12860
criticality analysis in, using operator semi-eigenvector theorem, 21:14007
criticality calculations by direct iteration of finite-difference eigenvalue problem equations, (T), 23:17267 (ORNL-TM-2381)
criticality calculations for spheroidal homogeneous, 21:14034
criticality calculations for, effects of hydrogenous moderators and reflectors on, 21:38548
criticality calculations for, iterative procedure for solution to Chebychev elliptic boundary value problems occurring in, 22:20935 (KAPL-P-3400)
criticality calculations for, use of ergodic theory for asymptotic, 22:30375
criticality calculations using neutron diffusion theory, computer program for, 21:7973
criticality changes with composition in, use of perturbation formula for computing, (T), 22:14310
criticality conditions for, use of adjoint biasing technique in Monte Carlo calculations of, 22:32982
criticality equations for multiregion, method for solving multigroup, 21:38165
criticality equations for, determination of, 22:48694
criticality equations for, examination of albedo formulation of, (T), 22:26771
criticality factor of two-core, experimental design and regression analysis technique for, (T), 25:18238
criticality of high-leakage thermal, core and reflector temperature parametric effects on, (E/T), 22:5745
criticality of one dimension multiple region, solution of Helmholtz equations for, (T), 24:13635
criticality of reflected finite cylinder shaped, CRITDM one group one dimensional computer program for, 24:11318 (GAMD-8718)
criticality of reflected-core, calculation using wave methods, 21:21807
criticality of secant-shaped, bipolar co-ordinates method for lowest Helmholtz equation eigenvalue in, 22:44947
criticality of slab shaped, solution of Helmholtz equations for, (T), 24:4124 (CISE-R-113)
criticality of triangle shaped, use of group theory for solution of, 24:4133
criticality of two-zone reflected, effects of flat central zone on calculations of, (T), 22:5927 (IBK-466)
criticality of, analysis using positive-element matrices, 21:5696
criticality of, asymptotic approximation for, (T), 24:18774
criticality of, basic theory and concepts for, 24:33541
criticality of, definition and calculation techniques for concepts of, 23:15723
criticality of, effects of core component statistical weights on, 24:47957 (NP-18367)
criticality of, La Salle theory for Liapunov kinetic equation analysis of, (T), 23:6039
criticality of, LIFE computer program for calculation of, 25:48337 (BAW-TM-402(Rev.1))
criticality of, N-SOUSI computer program for, 24:2059 (RISO-M-926)
criticality of, nonlinear equation analysis for calculation of, (T), 24:18775
criticality of, one group approximation analysis for excited fuel density oscillations, (T), 23:43208
criticality of, performance of minimum error few group programming technique for, 25:3930
criticality of, solution of multigroup finite difference equations for, (T), 23:47293 (CNM-R-2(Vol.1), pp 206-18)
criticality of, two group neutron transport equations for, (T), 25:6157
criticality perturbation of, time-discontinuous calculation using time-dependent neutron-group diffusion equations for, 21:42756
criticality safety of, computational techniques in, 21:44827 (DP-MS-66-70)
criticality safety of, review of, 21:40621
criticality studies for, mathematical formulation of, 21:40587(T) (JPRS-42067)
criticality studies for, use of energy-dependent Boltzmann equation for, 22:27493
dashpots for, design of, 24:9572(P)
decontamination of, methods for, 24:38584
decontamination of, use of RD16F solution for, 21:43421
decontamination research for, 23:13824(R) (IN-1201)
description of fluid-cooled, 22:18633(P)
description of liquid-cooled, 22:16245(P)
description of liquid-cooled and liquid-moderated integral, 22:25179(P)
description of multiple hexagonal fuel tube liquid-cooled, 22:16240(P)
description of rotatable core, with fixed subcritical masses for supercritical periods, 22:3917(P)
description of Spanish, general, 22:1787
description of U. S. facilities, 22:14142 (TID-8200(17th Rev.))
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
description with spray coolant conduits on core assembly guide tubes, 22:10037(P)
design analyses using Monte Carlo techniques, discussion of, 22:33133
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and construction of, educational requirements of engineering personnel for, 24:9221
design and physics calculations for, description of ARC program system for, 22:33086 (ANL-7310, pp 431-511)
design calculations for, DATATRAN syntax oriented data file management and program interface modular system for, 24:16279 (KAPL-P-3871)
design calculations for, use of finite element variational methods in, 25:41596
design calculations for, use of finite element variational methods in, 25:41595
design characteristics of, affecting radiation safety, 21:28426 (ANL-7291)

design criteria for economic, 21:42740
design criteria for, effects of nuclear materials safeguards requirements on, 25:21312
design for simultaneous production of polymers from different monomer streams, 23:11563(P)
design for, development of antiseismic, 21:25630(R) (ORNL-4071)
design of dual-cycle, for nitrogen fixation, (T), 22:15141 (BNL-50057, pp 79-100)
design of earthquake-resistant, model for, 23:43420
design of high-temperature, having in-core temperature variations, 21:30220(P)
design of large modular, DATATRAN data-handling system for, 21:25628 (KAPL-P-3320)
design of liquid cooled and moderated, 21:30225(P)
design of mixed-spectra, 21:14123(P)
design of pulse, equations for effects of thermoelastic mediums on, 21:23756
design of seed-blanket, 21:40643(P)
design of thermal-radiation cooled, with cylindrical core and reflector, 21:8115(P)
design of variably controlled and moderated, 21:23679(P)
design of, college courses for training in, 24:7068
design of, computer programs for, 24:52989 (ANL-7684)
design of, computer uses in, 21:38768
design of, critical evaluation and exchange of nuclear data information for, 25:37107 (INDC(NDS)-29/U)
design of, digital computer requirements for use in, 25:44090 (WAPD-T-2358)
design of, discussion of Monte Carlo codes for, 22:33131
design of, effects of earthquake characteristics on, 22:6436 (ORNL-4168, pp 1-60)
design of, effects of, on neutron capture therapy of neoplasms in mice, 22:31148
design of, for radiant heat transfer from core to heat exchanger, 21:15715(P)
design of, module definitions for NOVA computer programs for, 22:44921 (KAPL-P-3397)
design of, performance of SIMPL-1 hybrid computer on problems with, 24:16307 (BNWL-1278)
design of, review of advanced and classic, 21:10156
design of, standard neutron cross sections and high-precision neutron flux measurements for, 25:14877
design of, training personnel for, 21:8091
design of, use of DATATRAN input language for NOVA Program for, 22:5929 (KAPL-P-3372)
design of, use of diffusion-like transport approximations in, 22:48802
design of, use of digital computers for, 25:39335
design of, utilization of past operating experience in, 21:40619
design of, with ceramic fuel-moderator mixture, 21:8172(P)
design of, with core containing fueled and fuel free zones, 21:23691(P)
design parameters for, perturbation methods for calculating optimum, (T), 23:49666
design with access to fuel channels in core of, 21:23684(P)
design with concentric pressure tubes, 21:23692(P)
design with integral coolant circuit and heat exchanger, 21:19421(P)
design with liquid moderator, 21:23685(P)
development and research at UKAEA, 25:4088(R) (NP-18528)
development by USAEC, JCAE hearings on, 22:10168
development devices for, description of mathematic and computer, 23:2132 (NP-17579, pp V.3-7)
development for peaceful applications, 21:12254
development for production of desalted water, 22:23204
development in Egypt, review of information on, 21:4406 (AD-632925)
development in Euratom countries, 22:4303 (EUR-3568)
development in Europe by NATO member nations in, summary of economic-technical, 21:25669
development in Mexico, review of, 25:54058
development in Netherlands during 1970 to 1980, projections of, 24:24806
development in South Africa, review of, 22:10903
development in United Kingdom, 1966, 21:2826 (NP-16347)
development in, research at Studsvik, Sweden on, 22:33399
development of future, technological possibilities in, 22:27425
development of technology during 1967, 22:22925
development of U. S., JCAE hearings on, 22:10045
development of U. S., JCAE hearings on, 22:10046
development of U. S., JCAE hearings on, 22:10044
development of U.S., JCAE hearings on, 23:40321
development of, conference on mathematics applications for, 25:57071 (CONF-710302-(Vol.1))
development of, conference on mathematics applications for, 25:57147 (CONF-710302-(Vol.2))
development of, educational programs at U.S. universities for, 23:43234 (CONF-670846)
development of, for use with ion engine in unmanned space flight, 21:10505(R) (NP-16505)
development of, Germany, 1969, 24:33704(R) (HMI-B-91)
development of, in Euratom, March 1965 to February 1966, 21:14129(R) (NP-16468(Vol.2))
development of, in France, 21:30341(T) (AEC-tr-6853)
development of, plutonium technology in, 22:35726 (BNWL-672)
development of, quality assurance program standards for, 25:44088 (RDT-F-2-2-T)
development of, research at AECL on, 25:37001 (AECL-3787)
development of, review of 1966, 21:5608 (CONF-661108-1)
development of, review of ANL program for, 23:41529 (BNL-50179)
development of, technical progress review on, 22:1816
development of, technical progress review on, 22:25172
development of, use of digital computers at Argonne National Laboratory during 1949 to 1969, 24:13644
development program for, progress for June 1967, 21:40534(R) (ANL-7349)
development programs for, 1964 JCAE hearings on, 22:12218
development, economical and technological aspects of, 1955-1965, 21:15689
differential equations for, summary of numerical techniques for solutions to ordinary and partial, 22:50853
diffusion equations for, derivation of numerical algorithm for solution of two-dimensional time-dependent multigroup, 23:40428 (CONF-690401-, pp 76-101)
diffusion equations for, use of cyclic Chebychev polynomials to solve space-time, 23:40427 (CONF-690401-, pp 55-75)
distillation equipment for desalting, design of, 24:2363(P)
Doppler broadening calculations for, use of 6-point Gauss quadrature with the complex integral for, 22:33136
Doppler-broadened line shape for, analytic approximation of, (T), 24:33507
dose estimation in accidents of, use of neutron-induced reactions in sodium chloride solutions for, 21:1752
dosimetry for, review of EURATOM programs during July 1964 to June 1968, 23:52379 (EUR-4386)
dosimetry of fast neutrons in man-rated SNAP, dose weighting factors for, 21:6512
dosimetry of tubes of, performance of ethylene for, 21:4563
dynamic behavior of, determination of instability bounds for linearly stable, 23:15714
dynamic equations for, descriptions of methods of solution of Volterra-type integrals for evaluating, 23:43200
dynamic models of, sum approximation of integral representation of one-dimensional, 25:26071
dynamic parameters for, use of linearized Kalman filter for determination of, 23:28606
dynamics analysis of, CLASSIC code for stability and frequency response calculations in, 25:20830 (AAEC/TM-551)
dynamics and operation of, book on, 22:30273
dynamics calculations for, discussion of computer systems for, 22:10088
dynamics equations for, asymptotic behavior of nonlinear Volterra integral, (T), 25:6180
dynamics equations for, location of higher spatial harmonic stability criteria for, 23:9226 (BNL-13053)
dynamics equations for, method for constructing Lyapunov functions using frequency domain concepts for solutions to, 23:4437
dynamics equations for, use of quasilinearization procedure for solution of nonlinear space-dependent, 24:7326
dynamics equations for, use of semi-group theory to obtain upper-bound flux transient values and stability criteria from nonlinear space-time, 23:37736
dynamics for, analytical bounds on complex roots of inhour equation for, (T), 25:41615
dynamics for, effects of fission products on, (T), 23:37479
dynamics for, multiple input describing functions method for, (T), 25:41612
dynamics measurements for, frequency domain transformation corrections of Winfrith binary cross correlator responses in, 22:53453 (AEEW-R-602)
dynamics of coupled-core, summary of, 22:20860
dynamics of cylindrical, COSTANZA (R,Z) code for analysis of transient, 25:57187 (EUR-4673)
dynamics of liquid-cooled, COSTANZA programs for computing, 22:5920 (EUR-3633)
dynamics of nonlinear, perturbation theory analysis of, 21:38536
dynamics of, application of Lie series to, (T), 24:16301 (BNL-50117, pp 306-21)
dynamics of, boundedness and stability of differential equation models for, (T), 24:18780
dynamics of, comparison of weighted residual methods for space dependent, (T), 24:24914
dynamics of, crosscorrelation method for pseudorandom signal analysis of spatially dependent, (E/T), 24:4156
dynamics of, DAS-2 digital computer program for calculating, 25:39341(T) (EURFNR-815)
dynamics of, deterministic signals for frequency response measurements for, (E/T), 24:47953 (CONF-680980-, pp 249-66)
dynamics of, effects of reactivity transients on, (T), 25:26070 (LFEN-NL-47-a)
dynamics of, hybrid computer method for invariant imbedding approach to spatial, (T), 25:41616
dynamics of, hybrid computer program analysis of spatial, (T), 25:6179
dynamics of, integrodifferential equations for effects of delayed neutrons on, (T), 23:24001
dynamics of, integrodifferential system for, (T), 24:46121
dynamics of, mathematical methods in, 25:46335
dynamics of, optimum binary signals for frequency response testing of, (E/T), 25:1965 (ORNL-TM-3198)
dynamics of, review of University of Arizona research programs on, 24:16300 (BNL-50117, pp 106-39)
dynamics of, study of space—time behavior using semidirect modal synthesis, (T), 25:18240
dynamics of, weighted residual methods for space dependent, (T), 24:2065 (ANL-7565)
economic and technical feasibilities of advanced, evaluations of, 21:46863 (ORNL-4145, pp 275-81)
economic study of chemonuclear single and dual-purpose, 21:8116 (BNL-50006)
economics of dual-purpose, for production of fresh water and electric power, 22:10445
economics of dual-purpose, for production of fresh water and electric power, 22:10446
economics of dual-purpose, for water desalination and electric power production, 22:14626
economics of mobile, low-power, for water desalination, 22:14630
economics of plutonium-fueled, effects of long-term cost variations on, 21:25741 (SGAE-RT-10/1967)
economics of various types of, 23:7664 (ORNL-4370, pp 212-18)
economics of various types of, 21:27720
economics of, mathematical model for, 22:27521(R) (ORNL-4236)
effects on environmental contamination, copper-64 tracer studies of, 24:36410 (JUL-603-ST, pp 227-42)
effluent cloud from, atmospheric diffusion measurements of, 21:43061 (UCRL-70540)
effluent disposal into soil systems, 22:12008(R) (BNWL-537)
effluent from, effects of, on radioactive contamination of foodstuffs, methods for monitoring, 21:43418
effluent water from, development of procedure for using lithium-drifted germanium spectrometer for monitoring, 23:24426 (IN-1218, pp 181-316)
effluents from, control of atmospheric contamination from release of radioactive gaseous, 22:2225(R) (NYO-841-11)
effluents from, filters for removal of radioactive particles from gaseous, 25:28829(P)
effluents from, method of calculating atmospheric dilution of gaseous, 22:30719
effluents from, tritium tracer measurements of atmospheric diffusion of gaseous, 24:41450
eigenvalues for cylindrical, use of control rod sectioning technique for calculating, 22:39903 (KFK-741)
eigenvalues of shutdown, asymmetry source experiment for measuring, 22:14297 (WAPD-T-1955)
electric circuit failure in, detection method for, 24:39393
electronic systems for, reliability analyses of, 22:37904 (DUN-SA-66)
emergency core cooling system of, effectiveness of, 25:1901
energy conversion from, thermoelectric cell for, (E), 22:15394(P)
energy production from, economics and use in underdeveloped countries of, 24:5533 (NP-18081)
energy release from power transients in, use of fissionable materials for determining, 21:45345(R) (IDO-17234)
energy release in excursions, asymptotic solutions of boundary-value problems for, (T), 23:5759
engineering problems of, 21:21729
entropy increase in, contributions by individual nuclear processes to total, (T), 23:17271
environmental monitoring at Seibersdorf, Austria, 25:21682
equipment for, international nucleon industries offerings in, 24:16151
equipment reliability data collection program for, development and application of, 23:37432
equivalence relation for, derivation of lattice dependent, 24:11301
evaluation as power sources for manned space stations, 23:38200
excursion analyses for, effects of short time delays in temperature feedback for superprompt-critical, 24:16164
excursion analysis for, effects of delayed neutrons and nonadiabatic systems on, (E/T), 25:39338
excursion analysis for, range of validity study on Hansen-Fuchs model for, 21:38568
excursions in cylindrical core, Bethe—Tait calculation with delayed neutrons and Doppler feedback for second, 22:20944
excursions in one-dimensional, hybrid computer analysis of spatial effects in prompt critical, 25:15408
excursions in, analysis of delayed neutron effects on self-limiting, 23:37638
excursions in, analysis of feedback induced spatial effects during, (T), 25:6161
excursions in, approximate calculation of prompt critical, (T), 24:29087
excursions in, coherence effects in super prompt critical, (T), 22:22653(R) (ANL-7419)
excursions in, effects of shock wave generation on, 22:5972
excursions in, effects on coolant expulsions and pressure pulses of, (T), 23:19564 (ANL-7502)
excursions in, model including delayed neutrons for self-limiting, 25:60223 (AD-721076)
excursions in, nonlinear differential equations for, 21:30201
excursions in, pulse characteristics for ramp reactivity insertion and energy-shutdown, (T), 24:22487
excursions in, singular perturbation methods and nonlinear boundary value solutions to equations describing, 22:33129
excursions in, spatial distribution of energy released in, 21:38566
excursions with nonlinear feedback in, prompt approximation of ramp, 21:34134
excursions with ramp reactivity insertion in, effects of delayed neutrons on, (T), 24:22486
experimental equipment for high-flux, design of high-resolution cold neutron spectrometer, 22:8368(T) (AERE-Trans-1080)
experimental facilities for, EPR spectrometer, 23:29268(P)
experimental facilities for, microphone switch for controlling pneumatic tube transfer system, 23:16210
experimental facilities in, description of shielded rod-actuated ring-type sample-cutting device for, 22:48739(P)
experiments in, reasons for administrative control of, 21:40544 (BNWL-SA-1360)
export and import of, digest of USAEC regulations for, 25:51772 (WASH-1163)
fabrication of, electron beam welding technique for, 21:11197 (KFK-404)

failures in complicated, analog and digital computer simulation of system, 23:2136
fast advantage factor in seed-blanket, neutron leakage effects on, 21:25638 (WAPD-TM-638)
fast fission factor in, multigroup and Monte Carlo methods for effects of backscattering in interaction on, (T), 22:44944
feasibility of small subcritical, for neutron radiography, 25:51736
fire protection of, recommended practices and national codes for, 22:18610
fissile material production in, system of international nuclear safeguards for control of, 22:37445 (KFK-800)
fission density distribution in, use of solid-state track detectors for determining, 21:30706
fission factor determination in, method for use of noise analysis for, 23:47329
fission fragment buildup in, semiconductor detector for selectively monitoring, 25:18651(P)
fission gas holdup beds for, theoretical chamber model for performance of, (T), 24:31130
fission gases in, calculation of asymptotic bubble spectrum for, (T), 25:12847
fission product adsorption in, use of activated carbon for, 23:40360
fission product behavior and control in, research summary on, for September—October 1969 on, 23:43138
fission product buildup in, use of Nephew's principle for determining thermal and epithermal absorption parameters for, 24:5560 (CISE-R-111)
fission product content in operating, ICON code for calculation of, 25:10236 (AERE-R-6242)
fission product decay heating in, (T), 25:10299
fission product distribution in uranium oxide (UO_2) fueled, effects of coolant loss conditions on, 24:7153
fission product iodine release into containment vessel of, removal of, 21:12149 (ORNL-4040)
fission product monitoring in, Geiger—Mueller detector system for, 25:37147(P)
fission product release from accidents in, calculations for, 21:30175 (WAPD-TM-599)
fission product release from, computer program for radiological safety analysis of, 22:42866 (IDO-17261)
fission product release from, relative inhalation hazards to man from, 25:29420 (LF-43, pp 1-7)
fission product release from, safety analysis of, 25:31620
fission product release to atmosphere during hypothetical accident in, radiation dose to man following, 25:46814 (BNWL-B-69(App.E))
fission product release to atmosphere from, review of meteorological developments for measurement of, 22:45191 (TID-24190, pp 1-12)
fission product removal heat exchanger system for liquid-cooled liquid-moderated, description of, 22:16342(P)
fission product removal units for, in-place efficiency testing of iodine, 21:31927 (CONF-660904-Vol.1 and 2, pp 1108-32)
fission product trapping system for, use of impregnated charcoal for methyl iodide, 22:44927(P)
fission products in, maximum permissible concentrations for water-sorbed, 21:35587 (SZS-4/67)
fission products in, on-line γ-spectrometer for detection of fuel-released gaseous, 23:17291
fission-product activity in shutdown, computer program for calculating, 21:7768 (HW-71984)
fission-product poisoning of, nuclide chains for evaluation studies of, 21:4381 (ORNL-TM-1658)
fission-product trappings in air released from, tracer studies of performance of charcoal bed in, 22:6807 (TRG-Report-1548)
fluctuations and stochastic processes in, models of, 21:30121 (CONF-660206, pp 531-65)
fluctuations of, pulse detector system for determination of, 21:27832 (ORNL-P-2880)
flux perturbation by probe tubes, calculations using 2DF two-dimensional transport code, 21:29828(R) (GA-7683)
four-factor-formula for, use of first collision probability for determination of, 22:50854
frequency characteristics of subcritical, analysis of phase and amplitude, 21:14090
frequency response in, use of test signal for determining, 21:5693 (ORNL-TM-1662)
frequency response of coupled-core, effects of localized oscillation of neutron absorber on spatially dependent, (T), 25:6148
frequency response of, low to intermediate range calculations of, 21:40610
frequency response tests for, comparison of signals for nonlinear effects during, 25:5967
frequency response tests for, optimum discrete level signals for, 25:5968
fuel burnup for, LIFE computer program for calculation of, 25:48337 (BAW-TM-402(Rev.1))
fuel channel diameters of, design of equipment for measuring, 21:39107(P)
fuel cycle economics for, review of 1964 Geneva Conference papers on, 24:22735
fuel cycle for, economics of reprocessing phase of, 24:46463
fuel cycles at equilibrium management in, MOICANO-2 code model for continuous, 24:31128
fuel cycles for, role of US industry in, 24:46311
fuel element cans for, design of thermocouple terminal connector for measuring temperature of, 21:43119(P)
fuel element defect detection in, electron paramagnetic resonance spectrometer for, 21:32048(P)
fuel element failure in, Cherenkov detector for detecting, 24:39272(P)
fuel element heat source distribution in, calculations of, 21:31949 (UJV-1724)
fuel element rupture in, analysis of iodine release from urania, 21:27706
fuel requirements for, equations and evaluation of, 21:21647 (SGAE-RE-5/1966)
fuel rod removal from, design of remote handling system for, 21:39111(P)
fuel tube access through shielding to, design for, 21:23778(P)
fuel tubes for, design of device for flow control in, 21:32323(P)
fuels for, production method for hollow spherical, 21:43101(P)
gamma absorption coefficients from spectra of, mean-energy, (T), 21:40055
gamma and neutron dose determinations in accidents with, 21:3412
gamma dose rate measurements in, use of chemical dosimeters for, 21:30276
gamma dosimetry in, use of calorimetric dosimeter for, 23:2676
gamma dosimetry in, use of metaphosphate glass photoluminescent dosimeters for, 23:2590
gamma flux in, computer program for calculation of, 25:46329 (INR-1276)
gamma flux in, performance of microcalorimeters for measuring, 21:19983 (CONF-651154-3)
gamma flux measurements in, design of thermometer for, 22:43055
gamma heating in, design of differential calorimeter to measure, 21:19819
gamma radiation fluctuation measurements in, determination of dynamic parameters by, (T), 24:47945 (CONF-680980-, pp 25-33)
gamma spectra from pulsed, dispersive Compton spectrometer for measuring, 25:412 (AD-708877)
gamma spectra in, solid state Compton spectrometer for measurement of, 21:30091(R) (ANL-7210)
gamma transport equations for, Monte Carlo integration of adjoint, 22:6148
gamma-neutron fields in, use of polymethylmethacrylate for dosimetry of, 22:2434
gaseous effluent from, filters for, 21:31915 (CONF-660904-Vol.1 and 2, pp 149-57)
gases in, analysis of, 21:30345(R) (IN-1063)
geometries of, spherical harmonics calculations for approximations of cylindrical, 22:6153
graphite component design for, to prevent brittle fracture, 21:16671
graphite corrosion in, method of inhibiting, 23:34060(P)
graphite development for high-temperature, 22:11021(R) (GA-7390)
graphite materials development program for, 22:34108(R) (LA-3932)
graphite sampling in, design of remotely controlled equipment for, 22:6525(P)
heat exchange platens between core and pressure vessel in, description of location of, 22:20963(P)
heat exchange system for, safety device design for, 21:23677(P)
heat exchanger design for, 21:23776(P)
heat exchanger for, description of outlet coolant temperature dynamics system for feedback control optimization in, 22:20948
heat exchanger for, design of, 23:21865(P)
heat exchanger supports for, description of rotating, 25:20840(P)
heat exchanger supports for, design of coolant submerged, 22:1896(P)
heat exchangers for, description and arrangement of, 22:18611(P)
heat exchangers for, description of variable flow rate counter current, 22:3953(P)
heat exchangers for, description of variable length liquid-liquid, 22:1911(P)
heat exchangers for, tube vibration in primary circuit, 23:24348 (ORNL-4399)
heat flux distribution in, axial, (E), 21:36248
heat flux studies for, critical, (E/T), 25:57647
heat from nuclear, feasibility of recovering iron from ores using, 23:43960
heat from, prevention of atmospheric advection fog formation using waste, 25:51636
heat from, use of heat pipe for direct energy conversion of, 22:25046(P)
heat generation in, thermal-radiation model for calculation of, 21:40539 (BMI-1807)
heat measurement in, instruments for, 21:5708
heat transfer and fluid flow studies for, equipment and techniques for, (E), 22:10490 (WAPD-TM-386)
heat transfer and fluid mechanics of, bibliography on, 22:6528 (WAPD-315(Vol.1))
heat transfer and fluid mechanics of, bibliography on, 22:6529 (WAPD-315(Vol.2))
heat transfer from, to thermionic converters, simulation of radiant, (E), 21:22088 (BMwF-FBK-67-08)
heat transfer from, to thermionic converters, use of heat pipes for simulation of, 22:47282 (BMwF-FBK-68-18)
heat transfer in cores of, synthesis method for calculation of, 23:2507
heat transfer in, effect of power density, mass flow, and pressure on, 21:22098
heat transfer in, method for calculation and measurement of, 25:8413
heat transfer in, Monte Carlo methods for estimation of steady-state, 24:36488
heat transfer in, multirod geometry measurements of, 21:5616(R) (GEAP-5207)
heat transfer system for, description of liquid metal superheater, reheater and evaporator heat exchanger, 22:18646(P)
heat transfer systems for thermionic conversion, design of, 21:10179(P)
heat transfer systems for, techniques for computing hot-channel factors for, 23:9132
heating of materials in, use of differential calorimeters for measuring, 21:28324
heating of working medium, description of improved, 22:33120(P)
history of the first nuclear, 22:14315
hot cells associated with, design concepts for, 24:31554
hydraulic systems of, FLASH-4 computer program for analysis of transients in, 24:5536 (WAPD-TM-840)
hydrodynamics for, (T), 24:33489
incidents reported during August to September 1970, 25:12807
instrument connections, design of, 21:30213
instrument connections, design of, 21:30214
instrument systems for protection of, design principles of, 22:50843 (ORNL-NSIC-51)
instrument systems for protection of, principles of design of, 22:12059
instrument systems for, noise problems in, 22:36123 (CONF-680303-, pp 235-8)
instrument systems for, reliability of, 21:40626
instrumentation and safety circuits for, summary description of, 23:26053
instrumentation development at Idaho Nuclear Corp., 1970, 25:46650 (IN-1407, pp 255-415)
instrumentation development for detection of incipient malfunctions in, application of noise analysis techniques to, 22:16312 (CONF-671011-, pp 71-86)
instrumentation development for, conference on, 24:39394
instrumentation duct system for concrete-shielded, design of, 21:8169(P)
instrumentation for, data sheets for design of time constants for log-N period meters, 23:38358
instrumentation for, design and performance of in-core, 24:50253
instrumentation for, design requirements for accident monitoring, 25:3895
instrumentation for, development at ORNL during Sept. 1966 to Sept. 1967, 22:22858 (ORNL-4219, pp 87-109)
instrumentation for, development at ORNL of, 25:13318(R) (ORNL-4620)
instrumentation for, development in Denmark, 22:6678(R) (RISO-M-578)
instrumentation for, development of microwave, 22:390 (BNWL-SA-1314)
instrumentation for, notes for safety lectures on, 23:2057 (NP-17649(Vol.1))
instrumentation for, performance of wide range linear channel for neutron flux detection, 25:6207
instrumentation for, redundance and independence of logic systems in, 23:17815 (CEA-CONF-1062)
instrumentation for, reliability analysis of mechanical, 25:6189 (RISO-214, pp 11-20)
instrumentation for, reliability analysis of protection system, 25:36996
instrumentation for, reliability of, 22:51278 (RISO-M-722)
instrumentation for, standardization of, 25:37673
instrumentation for, summary of development at ORNL, Sept. 1968—Aug. 1969, 24:9080 (ORNL-4459, pp 85-115)
instrumentation for, testing of OZH-1 and OZH-2 measuring devices, 21:1494
instrumentation for, transmission characteristics of in-core coaxial cables used for, 22:8407(R) (GEAP-4797)
integral characteristic of, derivation of neutron production over neutron losses ratio for, 25:60227
internals for, mathematical model for determining stationary temperature distributions of, 22:47050
iodine containment in, 22:25333 (ORNL-4229, pp 162-79)
iodine production in operating, effects of isotopic dilution on, 22:6546
iodine-131 release from, evaluation of risk to population from accidental, 21:43443
irradiation facilities for activation analysis in, 22:7992(R) (NBS-TN-428)
irradiation facilities of, instrumentation for, 21:14500(R) (RISO-M-501)
isotope buildup and depletion in, TURBO-40 code for two-dimensional calculations of, 22:47043 (IN-1184)
kinetic analysis of, analog simulation for, 21:38538
kinetic calculations for, method for approximating resonance integrals in, 23:37722
kinetic calculations of, use of WICLE program for space dependent, 21:30091(R) (ANL-7210)
kinetic equations for complicated geometry, method for synthesizing collision probability matrices for determining approximate solutions to, 23:37686 (AEEW-M-857)
kinetic equations for coupled-core, modal analysis method for space-time, (T), 22:35688
kinetic equations for coupled-core, transport equation solution of, (T), 22:6173
kinetic equations for multiregion, analytical method for solution one-dimensional few-group system of Helmholtz, 24:5563 (CISE-R-150)
kinetic equations for multiregion, RIVV computer program for solving one-dimensional two-group diffusion, 24:5562 (CISE-R-149)
kinetic equations for numerical solution to Gaussian quadrature of integrals for, 24:16287 (WAPD-TM-773)
kinetic equations for spherical, jump boundary condition solution to two-group homogeneous transport, 24:7299
kinetic equations for zero-power, amplitude dependent asymptotic solution for, (T), 22:25137
kinetic equations for, anomalies in variational flux synthesis calculations for, 23:37718
kinetic equations for, application of Monte Carlo eigenfunction iteration strategies to solution of, 23:37714
kinetic equations for, approximation method of Boltzmann, (T), 23:47292 (CNM-R-2(Vol.1), pp 176-205)
kinetic equations for, block inversion technique for solving multigroup collision probability, 23:40423 (AAEC/E-197)
kinetic equations for, canonical formulation of transport theory for, 21:38473 (WAPD-TM-681)

kinetic equations for, comparison of converged-method and P/sub N/ and S/sub N/ methods for solution to two-group transport, 24:7298
kinetic equations for, derivation of optimum integrating factors for solutions to coupled first order nonlinear differential, 24:4128 (LA-4252)
kinetic equations for, description of computer codes which utilize finite differences and iterative methods for solving diffusion, 23:40445 (RT/FIMA-(69)1)
kinetic equations for, description of hybrid-computer methods for solving, 23:37690 (NP-17858)
kinetic equations for, development of integral reactivity functionals in, 23:37692
kinetic equations for, digital computer analytic continuation method for calculation of, 21:42757
kinetic equations for, effects of delayed neutrons on spectral properties of multigroup transport operator for solution to, 23:52470
kinetic equations for, error analyses of linked-difference, 23:49651 (ANL-7410, pp 387-442)
kinetic equations for, formulation using S/sub n/ approximation of transport theory, (T), 23:1761
kinetic equations for, formulations of microscopic multigroup cross sections for solution to, 23:49651 (ANL-7410, pp 387-442)
kinetic equations for, hybrid analog—digital techniques for solving partial differential, 24:2064
kinetic equations for, iterative methods for solution to space-dependent fast adiabatic excursion, 23:19557
kinetic equations for, method for solving, 22:20420(T) (JPRS-43682, pp 150-64)
kinetic equations for, methods for solving, 22:20414(T) (JPRS-43682, pp 43-62)
kinetic equations for, modifications to angular and spatial quadratures for machine time reduction during solving, 23:40433 (CONF-690401-, pp 234-46)
kinetic equations for, monograph on method for solution to space-time, 24:18771
kinetic equations for, NOWIG computer program with temperature feedback for solution to one-dimensional two-group diffusion and precursor, 23:24000 (WAPD-TM-806)
kinetic equations for, numerical method for integrating, (T), 21:5630 (RT/FIMA-(66)1)
kinetic equations for, stable explicit finite difference technique for solution to one- and two-dimensional spatial, 23:37731
kinetic equations for, use of discontinuous Green's function modes for time synthesis solution to, 24:7293
kinetic equations for, use of Fourier series methods for oscillatory solutions to nonlinear space-independent, 24:7328
kinetic equations for, use of Green's function modes for time synthesis solution to, 24:16283 (RPI-328-163)
kinetic equations for, use of Langevin technique for iterative solutions of nonlinear feedback, 22:42386 (BNWL-SA-2003)
kinetic equations for, use of modular system IT computer code for iterative solution to two-dimensional multigroup multiregion, 23:40434 (CONF-690401-, pp 247-55)
kinetic equations for, use of transport trial functions in synthesis of three-dimensional, 24:7283
kinetic equations for, use of unperturbed spectrum to obtain few-group constants for, 23:37703
kinetic equations for, use of variational principles in Lagrange multiplier solution of, (T), 23:47296 (CNM-R-2(Vol.1), pp 250-66)
kinetic equations for, variational deviation of discrete ordinate-like approximations for solving, 23:4431
kinetic equations for, weighted residual technique for solving space-time, 24:7292
kinetic equations of, mathematical development of metastatic solutions to space-dependent, 23:33104
kinetic equations with arbitrary reactivity insertions for, use of watched asymptotic expansions for solving, 24: 5569
kinetic parameters of, pulsed source and noise measurements on, (E/T), 23:52479 (INR-1045)
kinetic theory for space-energy dependent, use of last collision probability method for developing stochastic, 23:28619
kinetics analysis methods for, development of nonlinear space-independent and space-time, 23:43189 (BNL-50149, pp 1-14)
kinetics analysis of, approximation to nonlinear differential equations for, 21:40559 (KAPL-3359)
kinetics analysis of, nonlinear methods for, 21:19430
kinetics analysis of, use of Langevin method for fluctuation problems in, 24:16295
kinetics analysis of, use of neutron-waves and neutron-pulses for, 21:30112 (CONF-660206, pp 1-19)
kinetics analysis of, use of weighted residual methods in space dependent, 24:16294
kinetics analysis of, using RAPID code, 21:8045(R) (LA-3625)
kinetics analysis techniques for, development in Italy during 1967 to 1969, 25:23411 (RT/FI-(70)29)
kinetics analysis using ANCON code, 21:19496(R) (LA-3607)
kinetics analysis using UNIVAC-1108, review of two-dimensional multigroup methods for, 21:46850 (GA-8169)
kinetics calculations for coupled cores of, macroscopic nodal method for, 21:40608
kinetics calculations for, CITATION computer program for, flexible approach to one to three dimensional, 23: 34900 (ORNL-TM-2496)
kinetics calculations for, comparison of diffusion model and nodal model for, 21:40603
kinetics calculations for, computer codes TRIFID and RAVEN for, 21:35589 (TRG-Report-1374)
kinetics calculations for, computer program for fast neutron spectra and average multigroup cross sections for, 25:37113 (IN-1435)
kinetics calculations for, effects of increased computer capacity on, 23:47299 (CNM-R-2(Vol.2), pp 927-42)
kinetics calculations for, finite difference space-angle synthesis equations for, 22:48803
kinetics calculations for, mathematical models for, (T), 22:42495
kinetics calculations for, method for space-energy-angular dependent, (E/T), 25:54276
kinetics calculations for, operation principles of analog computer for, 23:17272
kinetics calculations for, phase space time evolution procedure for calculating time dependent neutron distributions for, 23:37710
kinetics calculations for, relative importance of delayed neutrons in few-group, 24:16277 (IN-1356)
kinetics calculations for, space-time variational flux synthesis model for, 25:44200
kinetics calculations for, two-group time-dependent S/sub n/ transport equation solution for spatially dependent, 22:10078 (NAA-SR-Memo-12319)
kinetics calculations for, use of time synthesis technique for nodal analysis of, 22:6146
kinetics calculations for, use of WIGL2 computer code for, 21:46851 (GAMD-7545)
kinetics calculations for, using neutron diffusion theory, 21:35772 (AD-650529)
kinetics calculations with temperature feedback for, spatial-dependent, 21:38567
kinetics code using LIE series, ARLEKIN, 21:38743 (EIR-111)
kinetics equation for, continuous analytic continuation solution of coupled nonlinear, 21:8044 (LA-3518)
kinetics equations for, 21:35599
kinetics equations for coupled core, numerical solution techniques for, 22:32822
kinetics equations for coupled, use of reactivity-coupling for derivation of point, 21:40607
kinetics equations for coupled, use of transport theory to obtain, 21:40606
kinetics equations for coupled-core, space-time nodal solution to, 21:40609
kinetics equations for coupled-core, use of canonical notation for solution to linearized point-, 23:43199
kinetics equations for coupled-core, use of natural mode approximation for solution to space-time dependent, 23:34937
kinetics equations for loosely coupled-core, modal expansion interpretation of nodal space-time, 22:32823
kinetics equations for multiregion, analytic solution to time linearized, 22:6145
kinetics equations for multiregion, analytic solution for space-time, 22:7911 (KAPL-P-3389)
kinetics equations for one-dimensional bare, use of Lie series for solution to, 23:37689 (IA-1187)
kinetics equations for one-dimensional multiregion, analytical solution of Helmholtz, 24:7267
kinetics equations for point model, ANCON code for solution of, 25:34426 (LA-4616)
kinetics equations for time-varying, analytical and numerical determination of variances and covariances of neutron and precursor populations for, 23:15724
kinetics equations for zero power, optimum parameters of two-group approximation of, 25:23404
kinetics equations for, analysis of delayed neutron emitters and secondary decay processes in, (T), 25: 20828
kinetics equations for, analysis of multinode, (T), 25: 44191 (ANL-7710, pp 365-463)
kinetics equations for, applications of variational synthesis techniques to, 24:18776
kinetics equations for, approximate analytical solution of, (T), 22:32462
kinetics equations for, approximate zero-power describing functions in, 24:11309
kinetics equations for, block inversion technique for solutions to, 23:40432 (CONF-690401-, pp 211-33)
kinetics equations for, comparison of numerical methods for solution of one point, (T), 25:51238
kinetics equations for, comparison of numerical methods for solution of, 23:47302 (CNM-R-2(Vol.2), pp 994-1014)
kinetics equations for, comparison of time synthesis and model analysis methods for solution of, 21:10132 (WAPD-TM-641)
kinetics equations for, comparisons of variational techniques for solving, 23:43205
kinetics equations for, computer calculations for cylindrical geometry, 21:42753
kinetics equations for, derivation of adjoint equations for use in source-sink method of solving, 23:52472
kinetics equations for, derivation of general multigroup and spectral synthesis, 24:22488
kinetics equations for, derivation of generating functions of probability codistributions for solution to, 23:11329 (RCN-98, pp 27-39)
kinetics equations for, derivation of recursion formulas for iterative solutions to, 23:7412 (BNL-12911)
kinetics equations for, derivation of two-mode, 21:7881 (KAPL-M-6576)
kinetics equations for, description of C/sub N/ method for solution to Boltzmann, 23:4423
kinetics equations for, determination of eigenvalue preparatory to solution to, 21:38458 (KAPL-3160)
kinetics equations for, determination of properties of composite matrix used in solution of, 22:48766
kinetics equations for, evaluation of Lyapunov and comparison functions for solution to space dependent, 23:4427
kinetics equations for, exact solution of non-linear prompt, (T), 23:24010
kinetics equations for, extrapolated implicit method for numerical analysis of, 24:47961
kinetics equations for, formulation of time-dependent importance distribution for, 22:33158
kinetics equations for, formulation using neutron transport theory, (T), 22:3599
kinetics equations for, formulation using telegraphers equation, (T), 22:39558
kinetics equations for, formulation using variational method, 21:42524 (RPI-328-97, pp 35-95)
kinetics equations for, hybrid computer techniques for automatic rescaling of, 24:38627
kinetics equations for, inclusion of energy dependent bucklings in B/sub N/ approximations to, 23:37711
kinetics equations for, Liapunov's direct method and extensions for stability analysis of, (T), 23:2112
kinetics equations for, linearized matrix formulism with feedback for solution to space dependent, 23:37476
kinetics equations for, mathematical properties of matrix of coefficients which arises in multigroup finite difference representation of, 23:11326 (KAPL-M-7030)
kinetics equations for, matrix techniques for computing nonlinear coupling of spatial modes for, 23:7413 (BNL-12912)
kinetics equations for, method for evaluating matrix exponential for solving point, 24:7290
kinetics equations for, method for obtaining stable solution with low truncation error for two dimensional, 23:37740
kinetics equations for, methods development for solution of, (T), 22:48426 (RPI-328-133, pp 60-100)
kinetics equations for, methods of resolving interface ambiguities in discontinuous variational solutions to, 23:4430
kinetics equations for, modal analysis technique for solution to space-time and space-frequency dependent, 23:34942
kinetics equations for, nodal model for space dependent, 23:4425
kinetics equations for, normal-mode expansion in spherical geometry for, 22:6161
kinetics equations for, numerical methods for solution of one-point, 25:10312
kinetics equations for, operator-algebraic formulation of, 22:6163
kinetics equations for, review of approximate methods for solution to space-time, 23:40424 (CONF-690401-, pp 3-15)
kinetics equations for, RKC program for solving, 21: 7882 (KAPL-M-SR-1(Rev.A))
kinetics equations for, semidirect least squares variational methods for solution to, 22:6157
kinetics equations for, solution including higher harmonics of neutron flux, (T), 22:46696 (FEI-103)
kinetics equations for, solutions of, 21:21640 (KAPL-M-6581)
kinetics equations for, temperature formulation of, 23: 4426
kinetics equations for, temperature formulation of space averaged, (E/T), 25:20829
kinetics equations for, time-dependent doublet Boltzmann, 22:3937
kinetics equations for, two-dimensional double spherical harmonics method for solving, 24:7275
kinetics equations for, undetermined parameters method for integration of multimode, 24:47934 (ANL-7610, pp 465-537)
kinetics equations for, use of alternating-direction explicit procedure for numerical solution to, 24:18778
kinetics equations for, use of alternating-direction implicit method for solving, 24:7294
kinetics equations for, use of Helmholtz equation and natural mode techniques for numerical solution to space-time, 22:44929
kinetics equations for, use of macroscopic nodal technique for solutions to space dependent, 23:43201
kinetics equations for, use of matrix notation for eigenfunction solution to, (T), 22:32811
kinetics equations for, use of optimum integrating factors for solving, 24:7291
kinetics equations for, use of orthogonal polynomial expansions with arbitrary weight functions for solution to, 23:43195
kinetics equations for, use of random walk process for determining neutron distributions for Boltzmann, 23: 9232
kinetics equations for, use of synthesis techniques for solving one-group space dependent, 22:42558
kinetics equations for, use of three-dimensional nodal analysis for, 22:6155
kinetics equations for, use of undetermined parameters method for integration of multimode, 24:7286
kinetics equations for, variances and covariances of neutrons and precursors in, 22:18609
kinetics equations in cylindrical geometry for, use of expanded synthesis techniques for solution to, 22: 39920
kinetics equations in rectangular geometry for, use of expanded synthesis techniques for solution to, 22: 39919
kinetics equations of coupled core, derivation of nodal, 24:33490
kinetics equations with positive feedback for, use of comparison function technique for determining stability from spatially dependent nonlinear, 22:42286
kinetics for coupled core, two group analysis of, (T), 24: 5567
kinetics for coupled systems of, calculation of interaction parameters using steady state transport theory, 21: 19365 (LA-DC-8511)
kinetics for coupled, perturbation method for multigroup analysis of, (T), 23:24008
kinetics for double coupled core, analysis of transient, (T), 24:5568
kinetics for double coupled core, Ziya Akkasu analysis of, (T), 24:5566
kinetics for finite convex shaped, transport theory analysis of, (T), 24:33525
kinetics for slab shaped, solution of P/sub L/ approximation to transport equation analysis of, (T), 24:33517
kinetics for sphere shaped, solution of P/sub L/ approximation to transport equation analysis of, (T), 24:33518

kinetics for two-zone, analysis of two-point statistical calculation of, (T), 22:44916(T) (ANL-Trans-651)
kinetics for, acceleration technique for solution of Boltzmann integral equation for, (T), 25:48338 (CEA-CONF-1762)
kinetics for, ADEP computer program for one and two dimensional few-group, 25:46328 (BMI-1911)
kinetics for, angle dependent biasing in Monte Carlo calculations of, (T), 24:33522
kinetics for, anisotropic sources in two dimensional transport theory analysis of, (T), 24:33520
kinetics for, BASHAN computer program for few group three dimensional diffusion theory calculations of, 25:48336 (AEEW-R-669)
kinetics for, comparison of Volterra series and nonlinear operator for calculation of, (T), 22:50880
kinetics for, computer program for solution of temperature feedback few group space-time dependent diffusion equation analysis of, 25:34424 (IA-1217)
kinetics for, computer programs for, 25:44191 (ANL-7710, pp 365-463)
kinetics for, CONDOR 3 computer program for lifetime, 25:10304 (EUR-4539)
kinetics for, convergence of integral transform method in transport theory analysis of, (T), 24:33524
kinetics for, effects of space distribution of power and feedback reactivity on, (T), 25:54264 (JAERI-Memo-4352)
kinetics for, error analysis for B/sub N/ and B/sub N+1/ approximations for, (T), 25:34425 (IA-1232)
kinetics for, FORGAD computer program for, 25:10300 (AECL-3671(Add.1))
kinetics for, generalization of finite difference approximation method for solution of space—time, (T), 24:11291
kinetics for, hybrid computer solution of energy and space dependent, (T), 24:33510
kinetics for, mathematical methods and models for analysis of space-dependent, 23:19559
kinetics for, method of combining diffusion and integral transport equations for analysis of, (T), 24:33519
kinetics for, review of space dependent and space independent, (T), 24:47960 (WAPD-TM-960)
kinetics for, stability domains in nonlinear point, (T), 25:28800 (COO-2109-3)
kinetics for, transport theory analysis of, (T), 24:33527
kinetics for, truncation error calculation of finite difference approximations to transport equation analysis of, (T), 24:33523
kinetics measurements in, calculation of parameters for, 25:26066 (UJV-2389-R)
kinetics models for, stability domains in nonlinear point, 25:23406
kinetics of bare slab, BIGG 2 computer program for, 25:12842 (INR-1193)
kinetics of beryllium reflected, space-time dependence of, (E/T), 25:44201
kinetics of coupled core and zoned core, errors in few group diffusion theory calculations for, (E/T), 25:6162
kinetics of coupled core, (E/T), 25:6185
kinetics of coupled core, derivation of Avery's equations for, (T), 24:4139
kinetics of coupled core, Lie series solution for, (T), 24:13631
kinetics of coupled fast—thermal, correlation technique determinations of, (E/T), 25:20833 (RCN-132)
kinetics of coupled, formulation of equations for, (T), 21:12186
kinetics of coupled, invariant imbedding method for calculation of, 21:40605
kinetics of coupled, use of vector matrix differential equations for space-dependent, 21:40604
kinetics of coupled-core, 21:40617
kinetics of coupled-core, conference on, 21:40600
kinetics of coupled-core, delay-time distribution function for, (T), 22:6173
kinetics of doubly reflected, calculation of space dependent, (T), 25:41611
kinetics of infinite slab, weighting function choices for spatial, 24:47934 (ANL-7610, pp 465-537)
kinetics of large, quasistatic model of spatial effects in, 21:14028
kinetics of liquid-cooled multi-channel, calculation using Costanza—Cylindrical code, 21:15648 (EUR-3171.e)
kinetics of modular, coupled fission mode approach for, (T), 24:20631
kinetics of one dimensional, CORA computer program for, 24:50214 (IN-1416)
kinetics of pulsed, calculation methods for, (T), 24:7212
kinetics of space-dependent, application of optimal control theory to space-time, 25:28813
kinetics of spectral shift, 21:35763
kinetics of sphere shaped, Green's function technique for one-speed transport theory, (T), 24:20628
kinetics of statistical analysis of, 21:34127
kinetics of steady-state, effects of neutron population fluctuations on, (T), 22:6191
kinetics of thermionic, multivariable feedback synthesis with cross-coupling for, (T), 25:6163
kinetics of two coupled core, effects of first-flight neutrons on, 22:14311
kinetics of two dimensional two region, effects of redefined boundary conditions on P/sub N/ approximation for, (T), 24:50222
kinetics of two-region, model for analysis of, (E/T), 24:29091 (KFKI-23/1969)
kinetics of, (T), 24:47963
kinetics of, 3DDT computer program for, 24:47824 (LA-4396)
kinetics of, academic research programs and industrial needs in, 24:16155 (BNL-50117)
kinetics of, ADEP-1 and ADEP-2 computer programs for one and two dimensional few group, 24:43841 (BMI-1888)
kinetics of, alternating direction methods for solution of, (T), 24:46120
kinetics of, analysis of composite moderating parameters for Goertzel—Greuling continuous slowing down theory for, (T), 24:33526
kinetics of, analysis of nonlinear oscillations and stability for two reactivity feedbacks, (T), 24:50227
kinetics of, analysis of optimum space and time dependent, (T), 24:33498
kinetics of, analysis of point, (T), 25:6150
kinetics of, analysis of space dependent nonlinear prompt, (T), 24:43846
kinetics of, application of asymmetric discontinuity approach to initial value and boundary valve problems for discontinuous trial function method for, (T), 25:54265 (RPI-328-231)
kinetics of, application of Krasovskii instability theorem to, 24:4134
kinetics of, application of statistical weights concept to calculation of, (T), 24:4129
kinetics of, approximate calculation method for eigenvalue problems of group diffusion equation, (T), 24:43849
kinetics of, asymptotic formulas for space dependent, (T), 24:20623 (KAPL-P-3875)
kinetics of, beryllium oxide (BeO) moderator crystalline binding effects on, (T), 24:18773
kinetics of, bibliography of synthesis methods and variational methods for, 24:47956 (LA-4461)
kinetics of, BNL research during 1969 on, 24:46013 (BNL-50205, pp 1-15)
kinetics of, bounded positive solutions of equations for, (T), 25:12845
kinetics of, calculation of material dependent correction factor for mean chord length for, (T), 25:10310
kinetics of, calculation of reflection and transmission functions for, (E/T), 24:4144
kinetics of, coarse mesh acceleration of iterative solution of diffusion equation for, (T), 24:33514
kinetics of, coarse mesh acceleration of S/sub N/ interactions for, (T), 25:6154
kinetics of, comparison of 1966 to 1967 group constants data for, 24:4153 (JAERI-1176)
kinetics of, comparison of analog and digital computer simulators for measurement of, 23:52476
kinetics of, comparison of point and space models for analysis of, 24:43844 (FEI-177)
kinetics of, comparison theorem for bounds of nonlinear parabolic equations for negative temperature feedback, (T), 25:6147
kinetics of, comparison theorems for stability domains and solution estimates for point, (T), 25:6153
kinetics of, computer analysis of nonlinear point, 24:16292
kinetics of, computer program algorithm based on Simpson's rule for, (T), 25:18237
kinetics of, conference on statistical methods and related techniques for analyzing, 23:11328 (RCN-98)
kinetics of, DAC1 computer program for calculation of, 24:22497 (LA-4342)
kinetics of, DARCID computer program for one dimensional, 25:41597 (ANL-7715)
kinetics of, degenerate thermalization kernel for calculations of, (T), 25:6166
kinetics of, derivation of equations for, 21:13995
kinetics of, determination of space-time using MUMKIN-2 code, 21:31950 (WAPD-TM-635)
kinetics of, discussion of mathematical and experimental treatments of, 22:6137 (CONF-670431)
kinetics of, DTK computer program for one dimensional multigroup transport equation for, (T), 25:48343 (KFK-1381)
kinetics of, effects of gadolinium burnable poison on, (T), 24:47959 (RT/FI-(70)21)
kinetics of, effects of short-time reactivity response on, (E/T), 24:50219
kinetics of, equations for linearized energy- and space-dependent, (T), 21:8074
kinetics of, error analysis of few group diffusion theory approximation for space dependent, (T), 25:48347 (WAPD-T-2368)
kinetics of, error analysis of prompt-jump approximation for, (T), 25:34434
kinetics of, evaluation of functionals with discontinuous trial functions in analysis of, (T), 24:33511
kinetics of, finite difference approximation technique for nodal model of space-dependent, (T), 23:24011
kinetics of, finite difference methods for multimode space-time synthesis of, 21:31950 (WAPD-TM-635)
kinetics of, HYBSHOV computer program for, 25:1870 (CEA-CONF-1582)
kinetics of, implicit time differencing methods for two-dimensional, 24:33535
kinetics of, Lie series method for solution of one dimensional multi-zone multi-group diffusion equation for, (T), 25:12855
kinetics of, method for calculation of J(theta,β), (T), 24:4142
kinetics of, methods for measurement of, 22:12114
kinetics of, model perturbation method for, (T), 24:43848
kinetics of, modified Helmholtz modal expansion method for space-dependent, 24:47954 (CONF-680980-, pp 307-20)
kinetics of, multigroup model for spatial, 25:23402
kinetics of, neutron wave technique for heterogenous effects in, (T), 24:7316
kinetics of, numerical integration of equations for, 21:31979
kinetics of, optimum closed- and open-loop control of, (T), 21:7916
kinetics of, optimum integrating factors for analysis of, (T), 24:20632
kinetics of, optimum two dimension S/sub N/ calculation methods for, 25:60224(T) (EURFNR-899)
kinetics of, P_3 approximation equations for, (T), 25:6155
kinetics of, parameter identification by spaced reactivity insertions for, (E/T), 22:7933
kinetics of, performance of digital computer display system for phase space analysis of, 25:10311
kinetics of, performance of rod drop technique for feedback and stability, (E/T), 25:1867 (ANL-7686)
kinetics of, periodic positive solutions of equations for, (T), 25:12846
kinetics of, polynomial approximations for point, (T), 25:41603
kinetics of, problems of persisting mode time constant in Monte Carlo calculations of, (T), 25:12848
kinetics of, quasistatic method for spatial, (T), 24:16274 (BNL-50117, pp 192-212)
kinetics of, review of ORNL research programs on, 24:16306 (BNL-50117, pp 213-29)
kinetics of, review of pulsed neutron research in Japan on, 25:3927 (JAERI-Memo-4109)
kinetics of, review of University of California Berkeley research programs on, 24:16273 (BNL-50117, pp 174-91)
kinetics of, review of University of Florida research programs on, 24:16272 (BNL-50117, pp 166-73)
kinetics of, revisions in MC^2 computer program for, 25:44191 (ANL-7710, pp 365-463)
kinetics of, solution of Boltzmann neutron transport equation in plane geometry by Double P/sub n/ method for, (T), 24:38623
kinetics of, solution of energy dependent Boltzmann equation in fast domain for, (T), 24:20629
kinetics of, solution of multigroup equations for neutron, (T), 24:26832
kinetics of, solution of transport equation for, (T), 24:16298
kinetics of, solution of transport equation for, (T), 24:50226
kinetics of, spherical harmonics solution of two group linear transport equation for, (T), 25:6158
kinetics of, stability analysis of nonlinear space-dependent, (T), 22:15938
kinetics of, strongly implicit iterative procedure for, (T), 24:33512
kinetics of, transport theory analysis of, 25:10317
kinetics of, transport theory analysis of, (T), 23:21560 (RCN-101)
kinetics of, two-point approximation equation of, 21:40360
kinetics of, TWOTRAN computer program for, (T), 24:33485 (LA-4432)
kinetics of, use of array processor for partial differential equations solution for, (T), 24:33513
kinetics of, use of cross correlation techniques for stability of nonlinear, (E/T), 23:33110 (KAPL-P-3812)
kinetics of, use of neutron count distribution in calculations of, 21:4414 (TID-23382)
kinetics of, use of partial differential operator for analysis of, (T), 24:50211 (BARC-492)
kinetics of, use of Volterra series for boundary conditions of, (T), 24:4137
kinetics of, variational methods for transport theory in, 25:33373 (CONF-710107-, pp 211-57)
kinetics of, verification of space—time, (E/T), 24:29081
kinetics parameters for, mathematical procedure for obtaining boundary conditions for calculating few-group diffusion theory R-Z, 23:34933 (KAPL-P-3830)
kinetics parameters of coupled core, correlation method for analysis of, 25:20827
kinetics parameters of, DAC2 code for two-dimensional S/sub n/ perturbation calculations of, 25:46330 (LA-4703)
kinetics parameters of, Garelis—Russell method for calculation of β/Λ, (T), 24:50224
kinetics problems in, natural mode approximations for space-time, 22:3938
kinetics studies for, September—October 1969 summary of research on, 23:43138
kinetics studies in Belgium, summary of, 23:11181 (RCN-98, pp 1-15)
kinetics studies in Netherlands, summary of, 23:11182 (RCN-98, pp 17-23)
krypton-85 release from, permissible limits for, 22:12463 (UCID-15251)
lattice array in, determination of anisotropic neutron diffusion parameters for homogenization of three-dimensional heterogeneous, 23:49663
lattice calculation techniques in neutron thermalization and transport theory, review of approximation, 22:6177
lattice calculations using integral transport equation, polynomial approximation for, 23:25764
lattice cell calculations for, description of WIMS code for, 21:10174
lattice cell reaction rates in, effects of fuel element bowing on, (T), 25:10319
lattice cells in, albedo method for neutron distribution calculations in multiregion, (T), 24:4132
lattice cells in, coarse mesh correction for neutron collision probabilities in, 23:52440 (AEEW-M-889)
lattice cells in, Saclay Nuclear Center methods for calculations on, 24:16275 (CEA-N-1243)
lattice cells in, TOFFEE code for calculating directed neutron flux spectra from, 23:52441 (AEEW-M-903)
lattice cells of, PRIZE code for collision probability calculations in R—Z geometry in, 24:9161 (RD/B/N-1410)
lattice parameters for uranium oxide (UO_2) 19-cluster, analysis using RBV Monte Carlo code for, 22:14251(R) (BNWL-534)
lattice parameters in multitube enriched uranium fueled, epithermal cell, (E/T), 25:44203 (INR-P-1266)
lattice parameters in, JOSHUA code subsystem for, 25:28801 (DP-MS-70-78)
lattice physics measurements for, reentrant hole neutron spectra perturbations in, (E), 22:44920(R) (GA-8622)
lattice physics of, (E/T), 22:20934(R) (GA-8462)
lattices for, temperature coefficient calculations for uranium-233 oxide (UO_2)—thorium-232 oxide, 22:14251(R) (BNWL-534)

lattices for, thermal disadvantage factor calculations for hexagonal, 21:38545
lattices in, BUG-2/BUGTRI codes for burnup calculations in rectangular and hexagonal, 24:4126 (GA-8272)
licensing and regulation of U. S., JCAE hearings on, 22:10025
licensing and regulation of, JCAE hearings on, 22:20879
licensing fees for, proposed changes to 10 CFR Parts 30, 40, 50, 70, 170 concerning, 21:46908
licensing in Canada, 21:2848
licensing of U.S., procedures and requirements for, 24:11161
licensing of U.S., safety requirements for, 24:11160
list of U. S., complete, 23:13416 (TID-8200(19th Rev.))
list of U.S., complete, 23:43086 (TID-8200(20th Rev.))
loading configuration, description of perpendicular coolant flow for sandwich fresh-used-fresh row-arranged fuel elements in, 22:48768(P)
loading device for, method for locating fuel channels for, 21:19834(P)
loading of, analysis of continuous bi-directional, (T), 22:22879
loading of, design of mobile equipment for, 21:34382(P)
loading systems for, reliability and safety of, 21:26031
location and production of, effect on fuel reprocessing plant location, 23:7658 (CEA-R-3592)
maintenance and refueling of, design and operation of elevator for use in, 22:49000
maintenance of, calculation of optimum economic, 24:47875
maintenance of, description of computerized data recording and evaluation system for, 24:4025 (DUN-SA-124)
maintenance of, development of program for optimum preventive, 23:33116 (DUN-SA-109)
maintenance of, development of teletype actuated computer operated remote handling equipment for, 25:20841
maintenance of, portable shielding for remote, 21:8139
materials corrosion by gases in, at 400 to 800°C, 21:18211
materials development, 23:6630(R) (GEMP-1004)
materials development for, 22:21649
materials development for advanced, 23:39015(R) (BMI-1862)
materials development for advanced, 24:34838 (BMI-1882)
materials development for, review of, 21:2901
materials development for, review of, 23:45988
materials development for, review on, 23:41535
materials development for, summary for 1965, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
materials development for, technical progress review on, 21:40706
materials development for, Technical Progress Review on, 23:9257
materials development programs supported by AEC Division of Reactor Development and Technology, summaries, 21:1225 (TID-6506(Pt.1)(4th Ed.))
materials fabrication for, powder-metallurgy techniques for, 22:6951
materials fabrication for, review of recently developed processes for, 21:14808
materials for advanced, development of, 23:20461(R) (BMI-1857)
materials for components of, properties and selection of, 24:4792
materials for construction of, review of corrosion resistant, 22:34061
materials for nuclear, 22:14463
materials for nuclear, corrosion mechanisms in, (E), 22:23718
materials for thermoelectric conversion in, performance of molybdenum silicide, 21:31102(P)
materials for use in, requirements for, 22:6933
materials for welding, review of, 22:19499
materials for, computer prediction of radiation effects on, 24:14843
materials for, conference on basic neutron data for, 25:14988 (STI/PUB-259(Vol.2))
materials for, conference on basic neutron data for, 25:14987 (STI/PUB-259(Vol.1))
materials for, conference on radiation effects on, 24:14808(R) (BNWL-1020)
materials for, cyclotron simulation of fast neutron effects on, 25:16557
materials for, data compilation on thermal properties of carbonaceous, 25:13750 (GAMD-9335)
materials for, design of in-pile capsule for measuring creep of, 25:11464 (KFK-1281)
materials for, development and testing of high-temperature, 24:25652(R) (GEMP-727)
materials for, development of, 22:49739
materials for, development of, 23:20463
materials for, development of, 23:46088(R) (BNWL-1144)
materials for, development of, 24:941(R) (GEMP-1012(Pt.2))
materials for, development of, 24:9986(R) (GEMP-1012(Pt.1))
materials for, development of, 24:14640(R) (GEMP-1013)
materials for, development of, 24:21337(R) (BMI-1878)
materials for, development of, 24:44652(R) (ORNL-4560)
materials for, development of, 24:46693
materials for, development of, 25:11458(R) (IN-1437)
materials for, development of, 25:49344(R) (ORNL-TM-3416)
materials for, development of cladding and structural, 22:21651
materials for, effects of fast neutrons on, 22:21734
materials for, effects of neutrons on, 22:19676
materials for, equations of state at high temperature and pressure for, 21:30091(R) (ANL-7210)
materials for, evaluation of zirconium alloys as, 21:16603
materials for, fabrication methods for, 24:44687
materials for, fabrication techniques and properties of, 22:613
materials for, handbook on corrosion resistance of, 22:33109
materials for, high-temperature radiation damage to, 21:32940
materials for, irradiation testing of nickel-base alloy, 21:36877 (BNWL-SA-1112)
materials for, method for determining fatigue of structural, 24:51153 (KFK-1168)
materials for, methods for measuring corrosion by steam, 24:12364
materials for, methods for stress analysis of, 25:18616
materials for, methods for testing structural, 21:36849
materials for, methods of testing irradiated, 23:24409
materials for, neutron radiation damage effects on mechanical properties of bcc, 21:6837(R) (GA-7436)
materials for, plane-strain displacement equations for stress analysis of, 22:14667 (WAPD-TM-737)
materials for, progress on development of, 24:17189(R) (IN-1335)
materials for, properties of cobalt-base alloys for, 25:45042
materials for, properties of fast-neutron-irradiated graphite, 21:31113
materials for, properties of silicon carbide, 25:756
materials for, radiation effects at high temperatures and high ratings on, 22:12037
materials for, radiation effects on, 25:32756
materials for, radiation effects on, 25:32751(R) (HEDL-TME-71-43)
materials for, radiation effects on properties of, 25:45102
materials for, radiation effects on properties of metallic, 25:4812 (BNWL-SA-3495)
materials for, radiation effects on structural, 25:44093
materials for, radiation effects review on, 23:20465
materials for, radiation effects testing using accelerators, 24:46757
materials for, radiation testing program on, 24:14811 (GEMP-1013, pp 167-223)
materials for, relations of neutron cross section with radiation effects on, 25:39977(R) (AI-AEC-12993)
materials for, research on, 21:32883
materials for, research on radiation effects on structural, 24:34920(R) (AD-703617)
materials for, research programs on development of, 25:29757(R) (ORNL-4630)
materials for, research programs on effects of cold neutrons on, 23:14374
materials for, research progress on development of, 25:49343(R) (ORNL-TM-3300)
materials for, review of, 22:12955
materials for, review of fast neutron effects on structural, 24:6222
materials for, review of sintering methods for fabrication of, 25:22140
materials for, review on, 21:20495
materials for, review on corrosion by liquid metals and fused salts, 24:17209
materials for, review on development of, 24:2873
materials for, review on development of, 24:44653
materials for, review on metallurgical properties of refractory, 24:17276
materials for, review on properties of, 24:17274
materials for, selection and improvement of, 25:27219
materials for, selection criteria and machining aspects of, 25:57207
materials for, testing of, 24:19380(T) (JPRS-49787)
materials for, testing of, 21:5707
materials for, USSR research on effects of radiation on, 25:52393(T) (JPRS-53800)
materials in lead slowing-down-time spectrometer for measurement of neutron resonance absorption in, 25:15921
materials of construction, properties of zirconium alloys for, 21:26835(P)
materials of construction, properties of zirconium alloys for, 21:26834(P)
materials research for, Technical Progress Review, Winter 1966 - 1967, 21:20465
materials research progress for, Technical Progress Review, Fall 1966, 21:15795
materials research progress on, Technical Progress Reviews, Spring 1967, 21:30215
materials selection for, nondestructive testing methods for, 21:8159
materials selection for, quality assurance criteria for, 21:8158
materials testing for physical properties and economics in building, 21:42740
materials used in, use of neutron spectrometer for analysis of, 21:36339 (KAPL-M-6591)
mathematical models of, hybrid computer simulation of large, 24:47934 (ANL-7610, pp 465-537)
matrix technique applications for, bibliography on, 22:47042 (IFA-FR-66)
measurement and control of, development of broadband high-temperature magnetostrictive and piezoelectric ultrasonic transducers for, 25:57898
metal-water systems of, Monte Carlo calculations of neutron slowing-down anisotropy in, 21:38549
metals for use in, physicochemical properties of, 24:32338
metals for, radiation damage to, 22:13036 (BNWL-473, pp 7.1-71)
moderator design for, solid-rod stack, 21:2912(P)
moderator material development for, review of, 21:1897
moderator materials for, development of nuclear graphite as, 21:28824
moderator materials for, review of, 21:20467
moderator space in, thermal insulation for, 21:6881(P)
monitoring of pre-operational environmental contamination in environment of, in India, 23:14182
monitoring of radioactive gaseous wastes from, at ORNL, 21:8799 (ORNL-TM-1569)
multiplication factor change in, calculation by PERTR code, 21:25626 (IA-1105)
multiplication factors for, correction terms for two—group approximation of infinite, (T), 25:37111 (BNWL-1560)
multiplication factors in reflected, CORONA code for control rod position effects on, 25:3926 (EIR-166)
neutron absorbing materials for, description of high temperature, 21:5023(P)
neutron absorption cross sections in, factors affecting time for calculation of, (E/T), 21:21755(R) (ANL-7302)
neutron absorption in materials with anisotropic microscopic self-shielding factors, 21:35390 (KAPL-P-3340)
neutron absorption in, effects of interference and resonance asymmetry on, (T), 21:33864
neutron activation measurements in undermoderated, techniques for, 21:19970
neutron activation rates in, computer program for, 21:7636 (ORNL-TM-1674)
neutron activation rates in, use of invariant imbedding method to calculate local, 24:7274
neutron activation, fission, and emission rate measurements in, method for absolute, 21:21810
neutron albedo and critical slab problems in, use of transfer matrix method for numerical solution to one-speed, 22:6149
neutron angular density in, use of NP/sub L/ formulism for unified modal-nodal calculations of, 23:37728
neutron angular distribution in one dimensional spherical or cylindrical, (T), 23:47331
neutron angular distribution in slab, 21:21737
neutron anisotropic scattering in homogeneous, effects on eigenvalues of one-group transport analysis of, (T), 24:11299
neutron balance equations for, use of time-integrated approximation for converting from multiple variable dependence to single variable dependence in, 22:3944
neutron beams from, use of transmission and reflection matrices for flux determinations for, 22:27496
neutron buckling calculations of, development of Lie series expressions in multigroup theory, 21:25654
neutron buckling in reflected, importance-shape method for geometric, (T), 22:14296 (RPI-328-100, pp 140-87)
neutron buckling in simulated boiling water cooled heavy water moderated 28 element uranium oxide (UO_2) lattice, effects of coolant density on, (E/T), 24:28992 (AECL-3513)
neutron buckling measurements from neutron space distribution in, (T), 22:3865
neutron capture in, Westcott formalism for, (T), 25:15405 (LFEN-NI.-45-a)
neutron collision probabilities for cylindrical and slab lattices, methods for calculating first-flight, 23:23995 (AAEC/TM-489)
neutron collision probabilities for three-dimensional cell geometry, computer program for calculation of, 21:7637 (ORNL-TM-1699)
neutron collision probabilities in cluster-type fuel lattices in, (T), 25:60231
neutron collision probabilities in nonuniform lattice, calculation of multigroup two dimensional, (T), 25:41608
neutron collision probabilities in, method for cluster geometry calculation of, 24:24906
neutron collision probability in, calculation of two dimensional, (T), 25:41607
neutron collision probability matrices in lattice cells of, MINOS code for production of, 22:14317
neutron collision probability theory in, cell parameters in multigroup, 21:5611 (EUR-3075.e)
neutron count rate in, nonlinear time dependent autocorrelation function from, 23:4453
neutron counting statistics in, interval distributions in, 21:25723
neutron counting statistics in, method for determining, 21:17521 (KR-114)
neutron cross sections for core of, computer program for calculation of mean thermal, 25:28803 (EUR-4555)
neutron cross sections for enriched uranium—boron-10-Zircaloy—water cores in, CAINE Library 51 of, 22:33091 (KAPL-M-6738)
neutron cross sections for, calculation of plutonium-239 and uranium-238 resonance cross shielding, (T), 25:1954 (BNWL-1509)
neutron cross sections for, method for calculation of, (T), 24:33506
neutron cross sections in, effects of temperature and boundary motion on Doppler broadening of, (T), 24:11294
neutron decay constant for reflected, prompt, (T), 22:5734
neutron decay constant in, techniques for determination of prompt, 24:13628 (BARC-431)
neutron decay constants in highly enriched uranium-metal, calculation of prompt, 21:38188
neutron decay constants in reflected fast burst, model for prompt, (E/T), 25:44198
neutron decay constants in, comparison of waiting-time alpha and Rossi-alpha techniques for measuring prompt-mode, (E/T), 22:5731
neutron decay in reflected, analysis by two-group time-dependent solution of the diffusion equations, (T), 22:5733
neutron decay in, effects of system size on mathematical representation of pulsed, 23:33111
neutron density fluctuation analysis in integrated systems of detectors and, adjoint weighting in equations for, 24:11303
neutron density fluctuations in bare cubical, calculation of, 21:30122 (CONF-660206, pp 623-48)
neutron density fluctuations in, slowing down kernels for thermal, 21:31961

neutron density in two-region spherical, solution to integral transport equation for, 23:4416
neutron density in, spatial and angular effects of time moments of, 23:37734
neutron detection and measurement in, development of thick organic scintillator spectrometers for fast, 21: 19963
neutron detection in, design and performance of U-234—U-235 coated fission chambers for thermal, 21:36363
neutron detection instrumentation for, survey of, 23: 38246 (KAPL-M-6961)
neutron detector response for, two stage Monte Carlo calculations for delayed, (T), 25:6151
neutron detectors for, instrumentation associated with, 22:30273
neutron detectors for, optimal estimation technique for spatial power profile determination from, 22:32880
neutron dieaway in reflected, two-group time dependent diffusion equation analysis of, 23:15735
neutron diffusion analysis for, use of CRAM edit compiler in, 21:27694 (TRG-Report-1355)
neutron diffusion and transport equations for supercritical, with external source, solution using source iteration method, 21:44536
neutron diffusion and transport equations for, variational rebalancing method for linear iterative convergence schemes of, 24:11308
neutron diffusion calculations for, method for phase space reduction in, 25:12853
neutron diffusion calculations for, self-initializing version of WIGL2 code for, 25:60209 (DUN-7538)
neutron diffusion calculations for, use of group-space-dependent bucklings to simulate coordinate system transformations for, 23:49651 (ANL-7410, pp 387-442)
neutron diffusion coefficient for cylindrical, derivation of Benoist's formula for axial, 22:53477
neutron diffusion coefficient in fueled cells, Monte Carlo calculations of thermal, 24:46110 (RD/B/N-1674)
neutron diffusion coefficient in, effect of thin regions in inhomogeneous media on, (T), 22:37619
neutron diffusion coefficients for cylindrical voids in, 21: 29835 (RT/FI-(66)44)
neutron diffusion coefficients for lattice cell calculations, methods for calculating, (T), 23:4446
neutron diffusion coefficients for, modified Benoist formula for, (T), 25:41609
neutron diffusion coefficients of moderators for, energy-dependent, (T), 21:5457 (CEA-R-3010)
neutron diffusion equations for coupled-core, 21:19154
neutron diffusion equations for large cores in, solution method for multigroup space-time, 23:47301 (CNM-R-2(Vol.2), pp 960-82)
neutron diffusion equations for reflected spherical, adjoint method for solution of multigroup, 24:38626
neutron diffusion equations for reflected, material bucklings of multigroup, 25:41598
neutron diffusion equations for reflected, two-group space-dependent, 22:33086 (ANL-7310, pp 431-511)
neutron diffusion equations for spherical geometry, PERDIF code for, 21:23744 (IA-1069)
neutron diffusion equations for two-dimensional cylindrical, use of discontinuous variational synthesis technique for solution static multigroup, 23:49651 (ANL-7410, pp 387-442)
neutron diffusion equations for two-group reflected slab, Green's function formulation of Laplace-transformed multigroup, (T), 25:6176
neutron diffusion equations for, combined space-time synthesis method for solution to two-group two-dimensional time-dependent, 23:2118
neutron diffusion equations for, comparison of alternative time differencing methods with other implicit methods for solution to, 23:37720
neutron diffusion equations for, comparison of finite differences and differential equations solutions to, 22: 14321
neutron diffusion equations for, computer program for solution of one-dimensional, 21:7627 (ANL-7223)
neutron diffusion equations for, computer program for solving multigroup one-dimensional, 22:20407 (GA-8286)
neutron diffusion equations for, computerized solution to one-group three-dimensional, 22:1881 (KAPL-P-3381)
neutron diffusion equations for, development and application of consistent P_1 multigroup, 23:37724
neutron diffusion equations for, error determination using reciprocal variational principles for, 22:14320
neutron diffusion equations for, existence theorems for discrete form of multigroup, 22:6156
neutron diffusion equations for, illustration and analysis of anomaly encountered in flux weighted collapsed group synthesis solution to, 23:28611
neutron diffusion equations for, matrix methods for solution to, 22:50864
neutron diffusion equations for, numerical algorithm for solution to two-dimensional time-dependent multigroup, 23:34934 (MIT-3903-1)
neutron diffusion equations for, positivity theorems for discrete form of multigroup, 22:48801
neutron diffusion equations for, series expansion transformation for Fredholm integral solution to steady-state Boltzmann, 23:28600 (GA-8716)
neutron diffusion equations for, use of matrix algebra for direct solution to periodic and rotational symmetry boundary conditions in, 24:7297
neutron diffusion equations for, use of polynomial representation for flux distribution in, 22:7923
neutron diffusion equations for, use of splitting techniques for solution to two-dimensional multigroup, 23:34935 (MIT-3903-2)
neutron diffusion equations for, variational iterative method for solution of energy dependent, 23:37716
neutron diffusion equations for, WIGL3 computer program for solution to one-dimensional two-group space-time, 23:19552 (WAPD-TM-788)
neutron diffusion in axially symmetric, multigroup calculations of, 22:18089
neutron diffusion in multiregion, Laplace-transform solution of one-dimensional equation for, (T), 22:1571
neutron diffusion in one-dimensional one-region systems, linearly anisotropic extensions of asymptotic, (T), 24: 43850
neutron diffusion in one-dimensional, method for solution of equations for, 25:18234
neutron diffusion in planes of, solutions for quasi-linear steady state equations for, 23:40449
neutron diffusion in three-dimensional, formulation of double P-0 approximation for, (T), 25:23391
neutron diffusion in, ARC system perturbation modules for, 24:47934 (ANL-7610, pp 465-537)
neutron diffusion in, comparison of computer programs for multigroup analysis of, (T), 24:41062 (RT/FIMA-(69)3)
neutron diffusion in, nodal method for analysis of, (T), 24:41065
neutron diffusion in, simplified eigenvalue problem solutions for, 25:6173
neutron diffusion in, SISYPHUS code for few-group two-dimensional, 25:1955 (KFKI-70-13-RPT)
neutron diffusion in, synthesis of three-dimensional flux shapes using trial functions for, 21:30191
neutron diffusion theory calculations for, transport-corrected boundary conditions for, (T), 23:5752 (UCRL-50443)
neutron diffusion theory equations for, computer program utilizing polynomial expansions for, 22:12141 (GA-7544)
neutron diffusion theory equations for, use of adjoint weighting in collapsed group-space synthesis solutions for, 22:16329
neutron diffusion theory for two-region, two-group, 21: 7666
neutron diffusion theory for, computer program for fitted constants on, 22:7616 (WAPD-TM-671)
neutron diffusion theory for, mathematical study of one-dimensional, multigroup, time-dependent, (T), 21:7854 (ANL-7189)
neutron diffusion theory for, numerical solution to time-dependent, 22:14304
neutron diffusion theory for, transport effects in, 22: 6158
neutron diffusion-depleting equations for, computer program for solution of one-, two-, or three-dimensional, 21:29839 (WAPD-TM-678)
neutron disadvantage factor for clad fuel cell, computer program for, 22:20932 (BNWL-515)
neutron disadvantage factor measurements in, thermal, (E/T), 21:12239 (WAPD-T-1943)
neutron disadvantage factors and spectra in water moderated uranium lattices, thermal, (E/T), 24:22500
neutron disadvantage factors and thermal utilization in plutonium and uranium, 21:8105
neutron disadvantage factors for, foil effects on measurements of, 21:8099
neutron distribution in adjacent half infinite media, energy dependent transport theory for, (T), 25:12857
neutron distribution in core and reflector of, effects of control rod arrangement on, 21:21658
neutron distribution in cylinder shaped, spherical function solution for, (T), 24:20622 (NP-18028)
neutron distribution in thin homogeneous natural uranium slab, synthesis solution of multigroup Boltzmann equation for, 25:60214
neutron distribution in water-moderated, calculation using K-7 Thermos code, 21:19362 (KR-113)
neutron distribution in, algorithms for space-energy and angular, 23:52455(T) (JPRS-48331, pp 106-22)
neutron distribution in, analysis of Shotkin space—time calculation of, (T), 24:11292
neutron distribution in, corrections for Shotkin space—time calculation of, (T), 24:11297
neutron distribution in, effects of moderator cavity shape on surface, (E/T), 24:16311
neutron distribution in, stochastic operator method of calculating probability distribution functions for, 23: 13580
neutron distribution predictions in, using LARC code, time-dependent, 21:35773 (AD-650544)
neutron distributions in numerical solutions for time-dependent initial-value, 24:7270
neutron distributions in, design and performance of activation detectors for measuring, 25:23829
neutron distributions in, neutron conserving Russian Roulette analysis of, (T), 24:33521
neutron distributions in, single-channel flux synthesis for determining static and dynamic, 22:32825
neutron distributions in, solutions to stationary neutron diffusion equations for, 22:6139
neutron dose equivalent rate measurements near, performance of detectors for, 22:14746 (AERE-M-1848)
neutron dosimetry in, use of activation detectors for, 23: 11873
neutron dosimetry in, use of calorimetric dosimeter for, 23:2676
neutron effects in linear two-temperature model for, instability caused by delayed, 21:38565
neutron emission probability in, binomial distributions of prompt, 25:18239
neutron energy spectra in heterogeneous, calculation of thermal, (T), 22:1574
neutron energy spectra in, methods for evaluation using activation measurements of spectral indices, 23:25761 (RT/FI-(68)49)
neutron escape probability in complex geometry, MOCUP computer program for, 23:21546 (AEEW-R-243)
neutron escape probability in, analysis of fast, (T), 21: 1190
neutron field in subcritical, correlation functions with Poisson primary distribution of, 23:43209
neutron fission measurements using uranium foils, corrections for fast, 22:10565
neutron fluctuation and propagation in, use of hybrid computer for simulation of, 21:31986
neutron fluctuations in seed-blanket, analysis of space-correlated, 22:32877
neutron fluctuations in, equations for, 21:40614
neutron fluctuations in, use of stochastic processes for obtaining probability codistributions for, 23:11330 (RCN-98, pp 41-61)
neutron fluence determination in, calculation of equations incorporating multiple-cycle irradiation and daughter burnup for activation detectors used in, 23: 35458 (GEMP-699)
neutron fluence in, method for standard measurement of fast, 25:46231
neutron fluence measurements in, handbook on activation detectors for, 24:36560 (STI/DOC-10/107)
neutron fluence measurements in, performance of lithium fluoride thermoluminescent dosimeters for, 23:33535 (HASL-206)
neutron flux and fluence in, TIMH computer program for effects of varying power levels on, 24:46014 (BNWL-1492)
neutron flux and gamma background measurement in mockup of WWR-S, 22:18605
neutron flux and spectra measurements in, accuracy of foil detectors for, 24:11334
neutron flux and spectral calculations for, use of multienergy first-collision probability method for simplified, 23:34939
neutron flux bounds for, linear programming for calculation of optimum, (T), 25:41613
neutron flux calculations for cylindrical use of combined multigroup P/sub N/-collision probability methods for, 23:37687 (EIR-147)
neutron flux calculations for, properties of spherical integrodifferential Boltzmann equation for, 22: 10084(T) (ORNL-tr-1505)
neutron flux calculations for, use of variational functionals with arbitrarily discontinuous trial functions for, 24:7279
neutron flux calculations using collapsed group-space synthesis, 21:38205
neutron flux calculations using conversion of energy- and space-dependent integral transport equation into energy-dependent form, (T), 22:48419 (RCN-95)
neutron flux calculations using S/sub n/ equations with solution by synthetic method, (T), 23:3911
neutron flux density distribution in, activation system for measuring, 22:28116
neutron flux density in reactor—detector systems, role of adjoint in fluctuation analysis of, 23:46899
neutron flux density in, use of microwave cavity resonators for determining thermal, 22:4509
neutron flux detectors for, optimum wire diameter for, 25:6206
neutron flux detectors in, calculation of optimum efficiency for multiple, (T), 22:35677
neutron flux determination in, use of Boltzmann equation with fluctuating parameters for, 22:30321
neutron flux determinations for, method for approximating adjoint from, 22:33138
neutron flux distribution and neutron importance in, multigroup collision method for calculation of, 23: 28613
neutron flux distribution by branching processes, (T), 21:44886
neutron flux distribution calculations in fuel rod uniform clusters, Neutron Absorption Synthetic Approach (NASA) method for, 23:21557
neutron flux distribution control in, analysis of, (T), 22: 25138
neutron flux distribution in cores of, synthesis method for determination of, 23:13939 (GAMD-8842)
neutron flux distribution in critical, use of stationary Boltzmann equation for, 22:12146
neutron flux distribution in cylindrical lattice cell, one-group, (T), 21:35380 (AECL-2709)
neutron flux distribution in fuel assemblies of, description of integral transport methods for analysis of, 22:30390
neutron flux distribution in infinite homogeneous, effects of cavities on, (T), 25:12851
neutron flux distribution in moderator of, effects of temperature gradients on, thermal, 21:44879
neutron flux distribution in multiregion cylinder shaped, two group diffusion approximation for, (T), 24:4124 (CISE-R-113)
neutron flux distribution in non-uniform lattices in, modified collision probability method for calculation of, 25:57155 (CONF-710302-(Vol.2), pp 644-54)
neutron flux distribution in radially reflected, effects of partially inserted control rods on epithermal and thermal, (T), 25:37131
neutron flux distribution in sub-regions of, analysis of multiple collision probabilities for, (T), 25:28805 (EURFNR-898)
neutron flux distribution in two region, effects of reflector thickness on, (E/T), 24:33496
neutron flux distribution in, accuracy of anisotropic diffusion theory for, (T), 24:11310
neutron flux distribution in, automatic counting of large sets of activation detectors for evaluating, 21:19966
neutron flux distribution in, computer program for calculation of thermal, 25:51231 (INR-1296)
neutron flux distribution in, control of, (T), 25:48349
neutron flux distribution in, description of multiple-capsule feeder for measurement of, 22:48757(P)
neutron flux distribution in, determination of function moments of, (T), 25:57179
neutron flux distribution in, development of device for plotting, 25:26460(P)
neutron flux distribution in, effect of black body on, 21: 10137
neutron flux distribution in, effect of random boiling zones on variations in, (T), 24:4131

neutron flux distribution in, effects of cavities on, (T), 25:26069
neutron flux distribution in, effects of cylindrical water cavities on, (T), 25:37117 (UARAEE-58)
neutron flux distribution in, effects of empty cooling channels on, (T), 25:1958
neutron flux distribution in, effects of neutron cross section on analysis of, (T), 24:33250
neutron flux distribution in, error analysis for few measured value calculation of, (T), 23:47315 (CNM-R-2(Vol.3), pp 1407-27)
neutron flux distribution in, finite element solution of diffusion and transport equations for calculation of, 25:57159 (CONF-710302-(Vol.2), pp 723-38)
neutron flux distribution in, formulation of equations for unique positive critical, 22:48801
neutron flux distribution in, improved fuel element configuration for, 21:15714(P)
neutron flux distribution in, interface conditions for discontinuous synthesis of, 24:47962
neutron flux distribution in, irreversible process transport theory for, (T), 22:14160
neutron flux distribution in, iterative behavior of direct search and eigenvalue solutions of, 23:49661
neutron flux distribution in, methods for optimum control of, (T), 25:46245 (KURRI-TR-75, pp 76-82)
neutron flux distribution in, Monte Carlo calculation of adjoint, 25:57162 (CONF-710302-(Vol.2), pp 803-32)
neutron flux distribution in, N-SOUSI computer program for, 24:2059 (RISO-M-926)
neutron flux distribution in, non-iterative method for calculation of time dependent, 25:57157 (CONF-710302-(Vol.2), pp 679-700)
neutron flux distribution in, nonlinear model of steady-state, 25:44197
neutron flux distribution in, one- and two-group model analysis of optimum, (T), 22:53468
neutron flux distribution in, P_3 approximation for calculation of, 25:57149 (CONF-710302-(Vol.2), pp 561-4)
neutron flux distribution in, reduction of ray effect in discrete ordinates calculations of, 25:12852
neutron flux distribution in, S/sub n/ programming techniques for calculation of, 25:57148 (CONF-710302-(Vol.2), pp 557-60)
neutron flux distribution in, solution of non-stationary and quasi-critical transport equations for, 25:57186
neutron flux distribution in, spatial differencing method for analysis of material motion effects on space—time, 25:23405
neutron flux distribution in, spherical harmonic equations for elimination of ray effects in, 25:57151 (CONF-710302-(Vol.2), pp 577-607)
neutron flux distribution in, SYNTH 2 computer program for calculation of, 25:12844 (TKK-F-A-121)
neutron flux distribution in, synthetic transport theory method for calculation of, 25:57154 (CONF-710302-(Vol.2), pp 625-43)
neutron flux distribution in, THERMOS type method for calculation of thermal, 24:47939
neutron flux distribution in, time discretization of transport equation for calculation of, 25:57158 (CONF-710302-(Vol.2), pp 701-22)
neutron flux distribution in, use of calorimeters for determining thermal, 21:39194
neutron flux distribution in, use of solid-state track detectors for determining fast and thermal, 21:30706
neutron flux distribution in, variational derivation of discrete ordinate-like approximations for, (T), 25:12858
neutron flux distribution in, variational treatment of DP-0 method for calculation of, 25:57152 (CONF-710302-(Vol.2), pp 608-16)
neutron flux distribution in, weighted diamond difference approximations for calculation of, 25:57150 (CONF-710302-(Vol.2), pp 565-76)
neutron flux distribution in, XEKE computer program for examining time stability in presence of xenon-135, 21:12257 (LA-3588)
neutron flux distribution near absorbers in, VISTA technique for measurements of, (E/T), 25:20831 (JAERI-Memo-4238)
neutron flux distribution variations in point model, LFEN—FR6 code for spatial, 25:23396 (LFEN-NI.-48-a)
neutron flux distributions and spectra in complicated cells of, integral transport theory method for, 24:50218 (RISO-M-1289)
neutron flux distributions for epithermal bursts in, (T), 24:33508
neutron flux distributions in europium containing mockups of plutonium fueled lattices, (E/T), 24:50243
neutron flux distributions in multiregion, use of transfer matrix method for determining, 24:7303
neutron flux distributions in spheroidal, method for analysis of, 21:14034
neutron flux distributions in, calculations using integral transport methods, 21:33847 (AE-279)
neutron flux distributions in, comparison of models for space correlated, (E/T), 24:24910
neutron flux distributions in, computer code for calculating, (T), 25:36651 (UARAEE-107)
neutron flux distributions in, effects of fuel element deformations on, (T), 25:18233
neutron flux distributions in, effects of neutron absorbers on, 22:33148
neutron flux distributions in, generalized multiple collision probabilities for calculation of, (T), 25:10313
neutron flux distributions in, iterative calculations using multipole source-sink method, (T), 21:17482
neutron flux distributions in, multichannel space-time synthesis technique formulation from discontinuous expansion coefficients for, 22:48799
neutron flux distributions in, recording system for detectors used in measuring, 22:43025 (EUR-3943)
neutron flux distributions in, scattering resonance effects on, (T), 21:9906
neutron flux distributions in, THERMNIL computer program for thermal, 21:15463 (CONF-660221-, pp 291-5)
neutron flux flattening by non-uniform fuel distribution in, effect of resonance capture on, (T), 22:7910 (JINR-P4-3581)
neutron flux flattening in a flat central zone natural uranium fuel, method for thermal, (T), 22:5928 (IBK-532)
neutron flux flattening in central zone of, continual fuel exchange method for, (T), 22:22881
neutron flux flattening in multiregion, analysis of thermal, (T), 21:19410
neutron flux flattening in multiregion, analytical method for determining, 22:14171
neutron flux flattening in, calculation of fuel distribution effects on thermal, (T), 23:45136
neutron flux from point source in, use of transform techniques for determining, 23:37727
neutron flux functions in, use of perturbation theory to calculate variations in, 23:52458(T) (JPRS-48331, pp 147-70)
neutron flux in cells of finite square lattices in, source-sink theory analysis of, 25:60228
neutron flux in cylinder shaped, collision probability method for calculation of thermal, 24:50229
neutron flux in hexagon core, CONCORDE synthesis program for axial, (E/T), 25:8130 (CEA-N-1276)
neutron flux in plate type, analysis of albedo problem for, (T), 24:26828(T) (ORNL-tr-2036)
neutron flux in reflected, CORONA code for control rod position effects on, 25:3926 (EIR-166)
neutron flux in slab, comparison of boundary value and Cauchy's value for stability of flat thermal, (T), 23:15711
neutron flux in spherical cavity regions of, time and space dependent thermal, (E/T), 24:33551
neutron flux in two-dimensional geometry during fast transients, alternating-direction implicit methods for analysis of, 25:31654
neutron flux in, calorimetric dosimeters for measuring thermal, 21:22180
neutron flux in, coaxial activation detectors for monitoring, 22:10572(P)
neutron flux in, comparison of higher order variational principles and iterative processes for calculation of, (T), 24:46116
neutron flux in, design and performance of Campbelling detection system for measuring, 22:6605
neutron flux in, effects of fuel element bowing on, (T), 25:10319
neutron flux in, hybrid computer system for real-time dynamic display of space-time, 25:41600
neutron flux in, information theory for detector monitoring of, (T), 24:46119
neutron flux in, JASON-code for P3 approximation to Boltzmann transport equations for, in FORTRAN II or IV, 22:42357 (BNWL-482)
neutron flux in, solution of one-group diffusion equations with angular singularities, (T), 25:18228 (HUX-3971-5)
neutron flux in, statistical gamma discrimination method for measurement of, 22:35684
neutron flux in, temperature feedback effects on fluctuations of, (T), 24:31129
neutron flux in, transmission method for measurement of thermal, 24:43721
neutron flux in, use of gold activation detectors for determining, 21:39173 (ABS-THH-1022)
neutron flux in, use of molybdenum and tungsten for determination of, 24:50195
neutron flux level in, design and performance of log n-period converters for, 21:12723
neutron flux limits for, nonlinear space—time calculations for optimum, (T), 25:41614
neutron flux linear extrapolation distance for convex curved free surface in, analysis of, (T), 23:24009
neutron flux mapping in, activation wire system for, 24:50568
neutron flux mapping using fission-foil wire spark chambers, spatially continuous, (E), 23:5793
neutron flux measurement in non-uniform lattice core, 21:38742 (EIR-100)
neutron flux measurement in, description of improved in-core high temperature ionization chambers for, 23:22034
neutron flux measurements from cores of, design and performance of electron current activation detectors for, 23:41016
neutron flux measurements in, BETA code for extracting delayed neutron parameters from, 22:12140 (BNWL-CC-788)
neutron flux measurements in, by prompt gamma counting, 21:35780
neutron flux measurements in, calibration of activation detectors for fast, 22:21321(T) (ORNL-tr-1843)
neutron flux measurements in, current variations from ionization chambers for, 22:25638
neutron flux measurements in, design and performance of miniaturized ADIT fission thermocouples for, 22:30905
neutron flux measurements in, design of activation detectors based on electron current measurements from beta decay for, 23:649(P)
neutron flux measurements in, design of fission thermocouples for, 22:30838
neutron flux measurements in, design of in-core regenerative fission chamber for, 22:30837
neutron flux measurements in, design of transistorized log-linear counting rate system for, 21:34481
neutron flux measurements in, development of regenerative fission-chamber detectors for thermal, 22:304 (BNWL-430)
neutron flux measurements in, efficiency of thermopiles for thermal, 21:10209
neutron flux measurements in, fission and ionization chambers for, 22:12568 (AEEW-M-492)
neutron flux measurements in, improved techniques for, 23:2042
neutron flux measurements in, methods for various energy, 23:4470
neutron flux measurements in, microwave technique for in-core, 25:10326 (RT/FI-(70)7)
neutron flux measurements in, performance of averaging and rms type detector circuits using Campbelling technique for, 22:28084
neutron flux measurements in, polynomial method for analysis of data from activation detectors for, 22:2368
neutron flux measurements in, schematics for live-timer corrections for foil-counting data for, 23:49582 (ANL-7410, pp 339-86)
neutron flux measurements in, use of activation detectors for thermal, 21:41204 (EUR-3567.f)
neutron flux measurements in, use of copper activation detectors for, 22:16857 (CEA-R-3295)
neutron flux measurements in, use of flow-thru air activation for perturbed thermal, 22:18585 (CEA-R-3338)
neutron flux measurements using copper activation, fast, 21:12635 (NP-16449)
neutron flux measurements using isomer production by neutron inelastic scattering, (E/T), 22:7705
neutron flux measuring system for, description of closed-circuit multiple valved-regulated tubes in outside-core forced-flow oxygen-containing fluid, 23:2145(P)
neutron flux monitoring channels for, standards for wide-range, 25:44209 (RDT-C-15-2-T)
neutron flux monitoring in, 10-decade wide range fission detector system for thermal, 25:2502 (GEAP-11094)
neutron flux monitoring in, description of continuous in-core primary emission activation detectors for thermal, 23:24036
neutron flux monitoring in, description of single fixed-position fission chamber for, 21:32442
neutron flux monitoring in, design and performance of vanadium beta emission detectors for, 23:38240 (AE-359)
neutron flux monitoring in, design of digital counting system for, 23:50118 (NYO-3738-15)
neutron flux monitoring in, development of fast-response miniature fission thermocouple for, 23:38247 (LA-4126)
neutron flux monitoring in, development of regenerative fission chamber for in-core, 22:36025 (BNWL-SA-1621(Rev.))
neutron flux monitoring in, method for measuring activities of activation probe bodies for, 25:18719(P)
neutron flux monitoring in, proportional counter with gamma discrimination for, 22:49084
neutron flux monitoring in, use of electronic safety trip devices for, 21:10713(P)
neutron flux monitoring in, use of fission chambers, pulse transformers, and balanced cables for, 21:32443
neutron flux monitoring in, use of radiation detectors based on Campbell's theorem for, 21:32441
neutron flux monitoring system for, design of wide-range Campbelling, 22:303 (ANL-7224)
neutron flux optimization in, 22:6150
neutron flux perturbation analysis in, use of Green's function modes and variational methods for, (T), 22:14296 (RPI-328-100, pp 140-87)
neutron flux perturbations by foil activation detectors, method for avoiding thermal, 22:53470
neutron flux phase space distribution in, analysis of adjoint, (E/T), 22:1833
neutron flux plane determination in continuous plates in, empirical method for, 21:5610 (EIR-96)
neutron flux profile measurements in, during zero power experiments, small semiconductor detectors for in-core, 22:37989 (CONF-670545, pp 191-9)
neutron flux shapes in, WANSY computer program for two dimensional, 23:45128 (WAPD-TM-891)
neutron flux spectra for, variational synthesis technique for reduction of activation detector data to obtain, 24:16858
neutron flux spectra for, variational synthesis technique for reduction of activation detector data to obtain, 24:16859
neutron flux spectra from foil activation measurements in, computer program for determining, (T), 25:18641 (IN-1446)
neutron flux spectra in, effects of resonance-scattering interfaces on, 22:33086 (ANL-7310, pp 431-511)
neutron flux spectra in, integral transport theory calculation of epithermal, 25:37115 (RISO-234)
neutron flux spectra in, one-group Milne method solution of thermal, (E/T), 25:37116 (UARAEE-56)
neutron flux spectra in, plural foil technique for measuring epithermal, 23:39910
neutron flux spectra measurements in slab and rod geometries in multiplying and nonmultiplying lattices, spatially dependent, (E/T), 21:19461 (GA-7508)
neutron flux synthesis approximation for annularly rodded cylindrical, analysis of anomalous behavior of flux-weighted collapsed-group, 23:34932 (KAPL-P-3811)
neutron flux synthesis approximations for, anomaly arising in flux-weighted collapsed-group, 23:37717
neutron flux synthesis for, use of asymmetric discontinuities in trial function expansions for, 23:4443
neutron flux synthesis for, using Green's function modes, (T), 21:7912
neutron flux synthesis for, variational models for space-time, (T), 25:44191 (ANL-7710, pp 365-463)
neutron flux synthesis in, functionals for discontinuous trial function, (T), 25:37130
neutron flux synthesis in, SYN code for two-dimensional, 25:37112 (GEAP-13672)
neutron flux synthesis in, SYNTRON code for three-dimensional, 25:26062 (RISO-M-1346)
neutron flux synthesis in, variational method for, (T), 22:22653(R) (ANL-7419)
neutron flux synthesis methods for, review of, 24:52990 (LA-4472)

neutron flux synthesis model for moveable material interface effects analysis, 25:8131 (WAPD-TM-978)
neutron flux variations in, descriptions of reactor-noise time-analysis methods for, (T), 23:2103 (BNWL-875)
neutron flux variations in, optimum infinite multiplication factor distribution for minimization of, 25:54266
neutron flux variations in, REDUX computer program for statistical parameters of, 24:4154 (WAPD-TM-811)
neutron fluxes in, calculations of general and adjoint, 21:25629 (KFK-508)
neutron fluxes in, mathematical properties and selection methods for base functions for time-dependent variational synthesis computations of, 23:23998 (KAPL-P-3803)
neutron fluxes in, superimposed activation foils technique for measurement of epithermal and thermal, 24:43722
neutron fluxes in, use of functionals with discontinuous trial functions for variational synthesis solutions for, 24:18757 (ANL-7627)
neutron fluxes in, use of radial trial functions for synthesis computations of, 23:4442
neutron fluxes in, use of stabilized march technique for synthesis of, 24:7284
neutron fluxes in, use of Wigner-Wilkins method for spectral fitting of, 22:50868
neutron fraction of, absolute power and statistical weights methods for measurement of effective delayed, (E/T), 24:4155
neutron generation time measurements in pulsed, GRIPE II computer program for, 21:46942 (IN-1085)
neutron group constants for, computer program using solution of energy- and space-dependent integral transport equation for calculation of thermal, 23:23607 (RCN-94)
neutron group constants for, method for determining optimal structure of, (T), 23:3912
neutron group constants in regular lattices of, determination of thermal, (E/T), 22:10063 (RCN-62)
neutron group constants in single pin lattice cells of, calculation methods for thermal, 24:22482
neutron group diffusion equations for, comparison of alternating direction time differencing methods with other implicit methods for, 23:47320
neutron group fluxes and power distribution plot from GAMBLE-4 by ICON-4, 21:7866 (GA-7017)
neutron group structure in, calculation of optimum and non-optimum space-energy, 23:37709
neutron guide tubes for, construction and use of, 24:47552
neutron importance and adjoint functions in, phase space distribution of, (E/T), 22:18587 (CURL-15)
neutron importance functions in, use of perturbation theory to calculate variations in, 23:52458(T) (JPRS-48331, pp 147-70)
neutron kinetics equation for, thermal fission based tables of coefficients and roots for, 23:47324
neutron kinetics equation in cylindrical geometry, method for solution of space—energy, 23:19121 (RT/FI-(68)38)
neutron kinetics in nonlinear, space-time analysis of, 21:38582
neutron kinetics in point two-zone, model for, 21:5701 (JINR-P-2828)
neutron kinetics of cylindrical-cavity, 22:6167
neutron lattice parameters for, effects of fuel element vibrations on multigroup, (T), 25:12850
neutron leakage at core—reflector interfaces, effects on multigroup cross section averaging, 25:31183
neutron leakage determinations in, use of Eigenvalue bias method to compare age measurements with age calculations for, 22:32991
neutron leakage from, Monte Carlo method for calculation of, 25:57163 (CONF-710302-(Vol.2), pp 857-70)
neutron lifetime for, measurements using statistical and 1/V method for prompt, (E), 23:11293 (RCN-98, pp 219-28)
neutron lifetime in, comparison of definitions for prompt, (T), 25:12856
neutron measurements in, interpretation of data from pulsed, 21:40593
neutron migration area in reflected cylinder shaped, pulsed neutron technique for determination of, 25:51228 (JAERI-13711)
neutron migration in lattices of fuel rods and liquid coolant, anisotropic, (E/T), 25:31660
neutron moderation in, exact solution of slowing down equation for, (T), 24:46117
neutron monitoring in cores of, development of stable semiconductor probe for, 23:26509 (BMwF-FBK-69-6)
neutron multigroup constants for, XSDRN discrete ordinates code for fast, resonance, and thermal, 23:40444 (ORNL-TM-2500)
neutron multigroup diffusion equations for slab, solution of finite-difference approximation to, 21:12152 (ORNL-TM-1729)
neutron multiplication factor in, EINDIF computer program for, 24:11317 (FMRB-28/69)
neutron multiplication factors for, formulation of correlated neutron triplets for determination of prompt, 23:34938
neutron multiplication factors in, measurement using differential reactivity, 21:30202
neutron multiplication factors in, use of collision probability technique for calculating, 23:37725
neutron multiplication in, measurements using Rossi α method, 21:27739
neutron multiplication in, use of californium-252 in fuels to increase, 22:12498(P)
neutron multiplication rates in lattice cell, computer program for calculating, 21:46643(R) (ORNL-4134)
neutron noise analysis for, use of Langevin's technique for two-group, (T), 23:13577
neutron noise analysis in, design of computer for on-line, 23:41147
neutron noise analysis in, design of computer for on-line, 23:41110 (EUR-4289, pp 277-81)
neutron noise and fluctuations in, comparison of methods for analysis of, (T), 22:47049
neutron noise experiments in, adjoint-weighted detector efficiency for, 22:30833
neutron noise in, methods for analysis of, 24:38495
neutron noise spectra, use of Fokker—Planck equation for describing density probability function for calculation of, 24:18777
neutron perturbation equations for, CIAP-1D-code for determining importance function for, 22:42395 (RT/FI-(68)9)
neutron perturbation theory for, results of numerical analyses of higher order, 23:43203
neutron physics equations for, solution in terms of albedo operators to, 22:1789
neutron physics for, Legendre moments of elastic scattering cross section for S-wave, (T), 24:33542
neutron physics of, research progress on, 21:42523(R) (RPI-328-97)
neutron physics parameters for, bulletin of information centers, 21:25399(T) (ANL-Trans-168)
neutron physics parameters of, effects of anisotropic scattering on, (T), 21:44534
neutron physics research program for, international co-operation in, 22:29843
neutron population fluctuations in, Monte Carlo and experimental analyses of, 22:33124
neutron population in, P-zero condition in Rossi-α experiments on, (E/T), 22:26776
neutron populations in one-mode stochastic model for, use of time-dependent Monte Carlo computer program for corrections to, 22:14307
neutron populations in point, calculation method for probability distribution of, (T), 24:18767
neutron power shaping by fuel zoning and poison dispersion in, computer program for burnup-independent, 21:4375 (GA-6689)
neutron probability distribution without temperature feedback in stationary, (T), 23:33098 (WAPD-TM-855)
neutron pulse decay in, multigroup solution for, 21:42754
neutron pulse decay measurements in, description of instrumentation, gate widths, and time variables for, 24:16163 (KFKI-31/1969)
neutron pulse half-width calculation in, approximation for, 21:30195
neutron pulse propagation in, use of time-dependent P_1-approximation of one velocity transport equation for describing, 23:11339
neutron pulsed source measurements in, analyzer recycling between pulses during, 24:33550
neutron reaction rate integrals in, optimized dual perturbation method for evaluation of, 23:47309 (CNM-R-2(Vol.2), pp 1121-35)
neutron reaction rates in systems with thermal resonance absorbers, correlation method for spectral indexes for evaluation of, (E/T), 24:22499
neutron reaction rates in, application and difficulties of Monte Carlo adjoint sampling for determination of, 23:15730 (ANS-RPD-1, Paper 3A)
neutron resonance absorption by fertile isotopes in, maximum Doppler effect for, (T), 21:27616
neutron resonance absorption by uranium-238 in cylindrical cell, epithermal, (T), 22:44581
neutron resonance absorption in, approximate Monte Carlo method for, (T), 25:41606
neutron resonance absorption in, characteristics of, 24:46013 (BNL-50205, pp 1-15)
neutron resonance absorption in, computer calculations of, 21:21369 (IDO-17212)
neutron resonance absorption in, effect of resonance width on, (E/T), 22:26768
neutron resonance absorption in, method for intermediate treatment of, (T), 25:51233 (JAERI-13700)
neutron resonance absorption in, use of Boltzmann integral equation for calculation of, 22:12147
neutron resonance absorption integrals for cylindrical heterogeneous, use of neutron penetrability factors for calculation of, 24:2061
neutron resonance cross section determinations for, 1968 summer ANS conference at Toronto on, 23:15725 (ANS-RPD-1)
neutron resonance cross sections for, calculation of, 25:37115 (RISO-234)
neutron resonance escape probability calculations for heavy-water-moderated, RESCUE method for, (T), 22:1578
neutron resonance integral determinations in, use of adjoints in Monte Carlo analysis of, 23:47310 (CNM-R-2(Vol.2), pp 1136-40)
neutron resonance integrals for hexagonal or square lattice, IRESINT computer program for, 24:50215 (NP-18281)
neutron resonance integrals in cylindrical, relations with heterogeneity and homogeneity, 21:30091(R) (ANL-7210)
neutron resonance integrals in square lattice cells, MCSUP code for, 24:50217 (RISO-M-1257)
neutron resonance integrals in, effects of inelastic collisions on effective, (T), 25:48331 (RT/FI-(70)46)
neutron resonance integrals in, numerical and semi-analytic calculations of, 25:37115 (RISO-234)
neutron resonance reaction rates in square lattices of, Dancoff correction effects on, 22:12085 (BNWL-472, pp 3.1-33)
neutron scattering in, equations for biased adjoint kernel determination for adjoint Monte Carlo calculations of, 23:15730 (ANS-RPD-1, Paper 3A)
neutron scattering in, two sided Laplace integral method transport theory for anisotropy of, (T), 24:20630
neutron scattering in, upward and downward kernels for thermal, (T), 25:37123 (UARAEE-80)
neutron scattering transfer kernel for, discrete ordinates quadrature method representations of, 23:47306 (CNM-R-2(Vol.2), pp 1086-98)
neutron shielding calculations for, cross-section requirements for, 22:18102
neutron slowing down in thorium oxide ($\mathrm{ThO_2}$)—water—heavy water lattices, (E/T), 24:33488 (WAPD-T-2346)
neutron slowing down in, time moments in space-time, 22:6159
neutron slowing-down density in cylindrical, Fermi age-diffusion heterogeneous kernel for fast, (T), 23:7416 (UJV-2072-R)
neutron source shape calculations for, Monte Carlo eigenfunction uncertainties in, 25:41605
neutron sources for high flux, description of, 22:3913
neutron space-time effects in coupled core, analysis of multimode time synthesis approximation for, (E/T), 22:30351
neutron spatial distribution in, design and performance of miniature primary emission activation detectors for measuring, 21:19969
neutron spectra analysis using transport theory codes, 21:26868(R) (HW-77281)
neutron spectra calculations for, degenerate kernel expansion method for thermal, 25:54268
neutron spectra for, formulation of discontinuous trial functions for space-dependent multichannel synthesis of thermal, 23:23998 (KAPL-P-3803)
neutron spectra in activation methods for determining, 25:23799
neutron spectra in lattice cell, computer program for multigroup calculations of, 21:44496 (AECL-2759)
neutron spectra in plutonium-fueled, estimation of, 21:21371 (RT/FI-(66)28)
neutron spectra in pulsed, simplified mathematical model for determining, 22:14309
neutron spectra in uranium-plutonium fueled, discrete energy formulation of thermal, 23:28612
neutron spectra in water-moderated plutonia—urania fueled, 21:17536(R) (EURAEC-1742)
neutron spectra in zirconium hydride-moderated, calculation of, 21:40700
neutron spectra in, activation data unfolding by RF01 and RF07 codes for determination of, (T), 25:31648 (KFKI-70-30-RPT)
neutron spectra in, conference on, 22:29856 (STI/PUB-160(Vol.1))
neutron spectra in, conference on, (E/T), 22:29872 (STI/PUB-160(Vol.2))
neutron spectra in, effects of probe on space—energy distribution of thermal, (E/T), 25:37137 (UARAEE-75)
neutron spectra in, foil-activation measurement of thermal, 21:44527
neutron spectra in, LATSP computer program for thermal, 21:15464 (CONF-660221-, pp 296-9)
neutron spectra in, measurement using neutron resonance detectors, 21:2687
neutron spectra in, measurement using scintillation counters, (E), 22:7619
neutron spectra in, measurement using transmission method, 21:15462 (CONF-660221-, pp 268-72)
neutron spectra in, performance of Au—Co—La—Mn sandwiched activation detectors for measuring, 21:30689 (CEA-R-3200)
neutron spectra in, review of thermal, (E/T), 25:37118 (UARAEE-62)
neutron spectra in, symposium on, 22:20412(T) (JPRS-43682)
neutron spectra in, temperature effects on, (T), 25:28814
neutron spectra in, threshold detector measurements of fast, (T), 25:37109 (UJV-2423-RF)
neutron spectra in, transmission method for measuring, 22:23288
neutron spectra in, two-dimensional few-group transport theory calculations of, 24:7272
neutron spectra in, use of threshold detectors for measurement of fast, (T), 24:16312
neutron spectra measurements in the keV range using resonance foils, (E/T), 22:5737
neutron spectra measurements in, cross and auto noise, 21:40685
neutron spectra measurements in, efficiency of semiconductor detectors for, 22:36090
neutron spectra measurements in, lithium-6-sandwiched semiconductor detectors for, 22:36055
neutron spectra variations in large, spatial effects on, (T), 22:50879
neutron spectra with respect to detector activity in, minimax formalism of risk function for determination of, 24:36088
neutron spectrum in one-dimensional, successive approximation method for calculation of eigenvalue and eigenfunction, 23:19550 (FEI-118)
neutron spectrum of, CAESAR, AILMOE, and GRISM computer program linking for single-run calculation of region-dependent, 23:13403 (AI-AEC-12721, pp 43-5)
neutron streaming effects and collision probabilities in, methods for calculating, 23:4446
neutron streaming in channels, (T), 21:25724
neutron streaming in, anisotropic effects of voids on, (E), 25:46331
neutron studies in, calculation of finite medium parameters for, 21:23592 (CEA-R-3080)
neutron thermal disadvantage factor in, Multiple Sauer method for calculation of, 23:47323
neutron thermal utilization factor in slab lattices of, multiple collision method for, 24:24912
neutron thermal utilization in, measurement of, 21:14082 (NP-16426)
neutron thermalization calculations for, degenerate kernel expansion method for, 25:54267
neutron thermalization in crystalline moderators in, variational method for pulsed-, (T), 25:31175
neutron thermalization in, calculations, 21:2864(R) (KR-109)

neutron transfer equations for, using lethargy subgroups, (T), 21:21735
neutron transport calculations for graphite-natural uranium cell, mesh requirements for, 21:44497 (AEEW-M-760)
neutron transport calculations for, description of MORSE Monte Carlo computer code for, 24:7268
neutron transport calculations for, use of optimum biasing functions for Monte Carlo, 22:6147
neutron transport calculations for, use of recursive technique for solution of the B_1 equations for, 22:33135
neutron transport equation for, computerized solution to the multigroup discrete S/sub n/ approximation to Boltzmann, 22:3925 (AEEW-R-498)
neutron transport equation for, solution of linear time-dependent, 25:41593
neutron transport equation for, solution using ergodic theory of semigroups for time-dependent, (T), 21:44528
neutron transport equation for, tensor form of, 25:23390
neutron transport equation in doubly-periodic lattices in, PL/K method for solution of one-velocity, 25:1962
neutron transport equation in doubly-periodic lattices in, PL/K method for solution of one-velocity, 25:1961
neutron transport equations for infinite cylindrical, Fourier series solution to, 23:2116
neutron transport equations for reflected, use of singular integral equations for solution to monoenergetic, 23:43198
neutron transport equations for, alternating direction form of iteration for combining discrete ordinates solutions to, 23:31222 (LA-4072)
neutron transport equations for, application of synthetic kernel technique for solution to one-velocity, 23:33106
neutron transport equations for, assembly language version of GRIND subroutine for two-dimensional discrete ordinates, 23:40448 (WANL-TME-1809)
neutron transport equations for, degenerate kernel technique for calculation of thermalization in, 24:7296
neutron transport equations for, determination of heterogeneous resonance integrals in terms of lethargy for, 22:33088 (EIR-132)
neutron transport equations for, development of bounded Monte Carlo flux estimator for rapid convergence of solutions to, 23:37715
neutron transport equations for, development of zero-variance and coupled sampling procedures for adjoint Monte Carlo solutions to, 23:19548 (CONF-680909-, pp 12-17)
neutron transport equations for, error bounds determinations using P/sub N/ solutions for, 22:10085
neutron transport equations for, error bounds for eigenvalue approximations for, 22:33086 (ANL-7310, pp 431-511)
neutron transport equations for, Fourier transformation and matrix element definitions for j/sub N/ solution to, 23:28614
neutron transport equations for, illustration of equivalence of integral transforms and spatial spherical harmonics methods for solution to, 23:28615
neutron transport equations for, j/sub N/ method for solution to space-angle energy-time dependent, 23:2115
neutron transport equations for, mathematical techniques for solving, 22:12142 (JEN-171-DF/I-51)
neutron transport equations for, Monte Carlo eigenfunction iteration strategies for solving, 24:5565 (WAPD-TM-878)
neutron transport equations for, non-multigroup adjoint Monte Carlo technique based on variance reduction method for solution to, 23:37697
neutron transport equations for, numerical method for solution to three dimensional, 23:4434
neutron transport equations for, solution by transformation of integrodifferential form into singular integral equation for, 22:3932 (TID-24099)
neutron transport equations for, spatial difference equations for two dimensional, 23:4432
neutron transport equations for, use of coupled sampling Monte Carlo computer program for solving multi-generation time-dependent, 24:7271
neutron transport equations for, use of Neumann series expansion for solution to Fredholm form of, 23:4415
neutron transport equations for, use of normal mode expansion technique for solution to, 23:43204
neutron transport equations for, use of stabilized march technique for solutions to inhomogeneous, 23:37730
neutron transport equations for, use of variational principles with arbitrary adjoint source for solution to monoenergetic Boltzmann, 22:33139
neutron transport equations for, use of variational techniques for developing generalized, 23:37732
neutron transport equations theory for, development of asymptotic P_1 formulation for approximations for, 23:4413
neutron transport in coupled core, application of j/sub N/ method to, 25:34428
neutron transport in cylindrical annular, internal boundary conditions of, (T), 25:20824
neutron transport in moderators in, bounds of integral operators in Hilbert space for, (T), 25:37129
neutron transport in pulsed source measurements, separation and continuation in, (T), 24:33534
neutron transport in slab geometry, moments matching spectral method for, 23:47307 (CNM-R-2(Vol.2), pp 1099-1108)
neutron transport in spherical, 25:52894
neutron transport in, approximate procedures for numerical solution of, (T), 25:36647 (ANL-7779)
neutron transport in, elementary solutions for two dimensional, 23:4414
neutron transport in, integral transform method for, (T), 24:24909
neutron transport in, low order discrete ordinates model for analysis of three dimensional, (E/T), 24:33499
neutron transport in, Monte Carlo digital simulation for planar region, (T), 24:36081 (RT/FIMA-(69)6)
neutron transport in, Monte Carlo method for combined adjoint and transport equation analysis of, (T), 24:18768
neutron transport in, numerical solution of linear integral Boltzmann equation for, (T), 25:18231
neutron transport in, point source Green's function for, (T), 24:24908
neutron transport in, properties of vector solution to Boltzmann equation for, 22:30349 (WAPD-TM-730)
neutron transport in, transfer matrix method for calculation of, 25:28798 (NYU-4090-1)
neutron transport in, variational synthesis method for analysis of multidimensional, (T), 25:34427 (ORNL-TM-3200)
neutron transport problems in, use of space-angle synthesis techniques for, 22:14305
neutron transport theory calculations for, polynomial flux approximations for integral, 22:6154
neutron transport theory equations for, method for numerical solution to singular integral, 23:37721
neutron transport theory for noncylindrical cell containing cylindrical fuel rod, 21:7656
neutron transport theory for, calculation of disadvantage factors with linearly anisotropic scattering from, 23:4417
neutron transport theory for, formulation of S/sub n/ discrete ordinates method for, 22:7914 (LA-DC-9092)
neutron transport theory for, invariant-embedding techniques in, 21:35771 (AD-650428)
neutron transport theory for, Legendre formulation of neutron flux expression in, 24:7266
neutron transport theory for, relation of variational principle to pseudoentropy production, (T), 22:7626
neutron transport theory for, use of quadrature for solving directly the singular integral form of one-velocity, 22:33141
neutron transport theory for, use of reflection-transmission matrix methods for, 22:33140
neutron transport theory for, using space-angle synthesis approximation, 21:38203
neutron transport theory in R-Z geometry for, use of Green's function for determining boundary conditions for, 23:37723
neutron utilization in, thermal flux trap for increased, 22:33179
neutron wave propagation in slab, solution of telegrapher's equation for, 23:47322
neutron waves in, analysis of source-transient region of, (T), 24:50220
neutronics analysis of, use of Feinberg—Galanine method for, 23:49656(T) (N-69-32562)
neutronics calculations for, discussion of IBM-704 computer programs for, 22:50867
neutronics characteristics of, use of three-time-point Rossi-α technique for measuring, 23:52473
neutrons in, description of supercooled and superheated gas loop for cold, 24:16170(P)
noise analyses for, critical review of, 23:33097 (TID-24512)
noise analyses for, use of pulse-type detector for, 21:38531
noise analyses of, description of NOISY1 computer code for space dependent auto and cross spectral density, 23:40431 (CONF-690401-, pp 193-207)
noise analysis (Feynman), measuring time bias in, 21:21645 (RCN-64)
noise analysis for, calculation of partition of numbers for higher derivatives of composite functions for, (T), 25:23398 (UCRL-20215)
noise analysis for, development of polarity correlation in frequency domain for, 24:4151
noise analysis for, measurement of prompt decay eigenvalue by covariance method for, 23:15736
noise analysis for, method for fast fission factor determination from, 23:47329
noise analysis for, modal effects in triple-correlation, (T), 22:35704
noise analysis for, review of techniques for at-power, 23:19479
noise analysis for, use of low pass filters for, 24:7341
noise analysis in coupled core, analytic solution of space-dependent coherence function in, 25:41602
noise analysis in coupled core, coherence functions for, (E/T), 25:41618
noise analysis in external control loop of, delayed and prompt neutron, (T), 23:13573 (KFK-786)
noise analysis in low power, (E/T), 24:9162
noise analysis in low-power, application and accuracy of autocorrelation and cross-correlation function method for, (E/T), 23:21560 (RCN-101)
noise analysis in zero-power, two-group point model for, 23:47328
noise analysis in, averaging of Fast Fourier Transform periodograms for, 25:41601
noise analysis in, development of Rossi-α measurement methods for, 22:47044(T) (LA-tr-68-39)
noise analysis in, effects of space and reflection on count-rate fluctuation spectra from, (E), 25:37134 (DP-MS-70-101)
noise analysis in, fast Fourier transform algorithm for on-line digital, 25:34431
noise analysis in, instrumentation for accurate, 23:28624
noise analysis in, mathematical formulation for, 21:25658
noise analysis in, performance of Cherenkov detector system for, 22:32976(R) (MIT-2344-12)
noise analysis in, review of data extraction methods for, 25:20822 (TKK-F-A-137)
noise analysis in, review of techniques for, 25:39333
noise analysis in, use of information theory for, 24:33531
noise analysis of, analog computer techniques for, (E/T), 23:2113
noise analysis of, detection system for measuring probability of zero counts for various time intervals in, 22:12087 (BNWL-472, pp 5.1-16)
noise analysis of, methods of time-dependent neutron count conditional probabilities for, (T), 23:2108
noise analysis of, probability generating function for, 21:40701
noise analysis of, use of p-method for, (T), 23:11331 (RCN-98, pp 63-70)
noise calculations for, JITER code for statistical parameters in, 23:40447 (WAPD-TM-877)
noise calculations for, use of generalized Langevin technique for temperature, 23:37693
noise characteristics in, comparison of space-dependent and space-independent auto spectral density, 24:7334
noise characteristics of, general method for frequency domain analysis of, 24:7342
noise equations for, probabilistic analysis of, 21:40614
noise experiments on, Monte Carlo method analysis of, 23:49672
noise in at-power, Langevin technique with feedback effects for analysis of, (T), 24:47952 (CONF-680980-, pp 211-25)
noise in coupled-core Argonaut-type, modal-analysis formulation of space-dependent, 23:19562
noise in point at-power, with one and two loop reactivity feedback, (T), 24:47944 (CONF-680980-, pp 11-24)
noise in two node coupled, stochastic coherence function for spatially dependent, (E/T), 24:47970 (CONF-680980-, pp 285-306)
noise in, analysis of space dependence of, 21:15705
noise in, conference on analysis of, 24:47935 (CONF-680980)
noise in, control system optimization of, 21:27737
noise in, determination of correlation amplitude in Rossi-α measurements of, (E/T), 24:47946 (CONF-680980-, pp 35-50)
noise in, exact probability distribution of, (T), 25:41599
noise in, NOISY1 computer program for spectral density functions of, 25:1868 (BNWL-1260)
noise in, shift registers for measurement of, 25:3931
noise in, theoretical research in Japan on analysis of, 24:47943 (CONF-680980-, pp 1-9)
noise in, use of pulsed neutron source in non-multiplying media for simulation of, 24:47949 (CONF-680980-, pp 175-83)
noise level effects on pulse amplifier sensitivity, 22:14292 (CEA-R-3333)
noise measurement and analysis in, auto- and cross-spectra methods for, 23:4406 (RISO-M-791)
noise measurement in, correlator with real time operation for, (E/T), 24:47948 (CONF-680980-, pp 161-73)
noise measurement in, information theory aspects of, 25:20821 (TKK-F-A-102)
noise measurements for, time domain sequential estimation of kinetics from, 25:39235 (IAEA-119, 17p.)
noise measurements in steady-state, calculation of subcritical reactivity from, (T), 25:23409
noise measurements in steady-state, calculation of subcritical reactivity from, (T), 25:23407
noise measurements in, by prompt fission gamma ray detection, 22:22846
noise measurements in, comparison of accuracy of autocorrelation and crosscorrelation techniques for, 23:34941
noise measurements in, comparison of autocorrelation and cross-correlation methods for, 23:40395 (RISO-M-792)
noise measurements in, effects of higher harmonics and constant neutron source on Rossi-α, (E), 24:50241
noise measurements in, effects of signal to noise ratio on polarity correlation, 24:33529
noise measurements in, review of methods used for, 22:14316
noise measurements in, summary descriptions of techniques for, 23:49581 (ANL-7410, pp 73-227)
noise measurements in, techniques for analysis of, (T), 24:47947 (CONF-680980-, pp 51-70)
noise measurements in, theoretical and experimental use of threefold correlation for, 23:11332 (RCN-98, pp 291-9)
noise measurements in, use of two detector correlation method for, 21:28321
noise measurements on, use of, probability generating function to interpret digital flash-start, 23:49670
noise measurements using counters and digital computers, analysis of, 21:40681 (RCN-75)
noise of periodically pulsed, analysis of, (T), 21:2831
noise parameters for, use of maximum likelihood method for calculating, 24:7340
noise power spectral density in, with external control loops, (T), 22:35724
noise probability distributions in, comparison of exact and approximate, 24:33530
noise probability distributions in, methods for calculation of, 25:44199
noise spectra for on-line, use of fast Fourier transform algorithm for real-time computations of, 23:37704
noise spectra for, transport theory formulation of cross-correlation space-dependent, 24:20633
noise spectra in at-power, comparison of sources of, (E), 24:47969 (CONF-680980-, pp 227-32)
noise spectra in at-power, Markoffian description of, 23:31228
noise spectra in at-power, NESAP-2 code for calculation of, 24:16278 (JAERI-1186)
noise spectra in, effects of neutron energy on, (E/T), 25:20832 (ORNL-TM-3245)
noise spectra in, neutron energy effects on, (E/T), 25:60238
noise-equivalent source model for, development of, 21:30196
noise-source calculations for, 21:30194
nuclear analysis of, discussion of Monte Carlo computer programs for, 22:33134

nuclear data compilation and evaluation for calculations on, 22:18099
nuclear data evaluation and compilation at UKAEA library, developments in, 22:35195 (AEEW-M-802)
nuclear data file for, ENDF/B, 22:3586 (BNL-50066)
nuclear data for, conference on, Vol. 1, 22:18078 (STI/PUB-140(Vol.1))
nuclear data for, conference on, Vol. 2, 22:18079 (STI/PUB-140(Vol.2))
nuclear data for, EURATOM research programs on, 22:37340(R) (EANDC(E)-89(U))
nuclear incidents in, analysis of fission product distribution following, 21:42731 (ORNL-TM-1899)
nuclear materials safeguards system for, 25:21289
nuclide buildup and depletion in, SINBAD computer program for space independent, 23:21465 (IDO-17217)
nuclide population in, DECAYWT code for CDC 6600 determination of, 23:11324 (KAPL-M-6937)
operation and components of, 21:36905 (NP-16716)
operation and performance of, analog simulation of, 24:9705 (CEA-CONF-1364)
operation and startup of coupled, xenon burnup method for, 21:23671(P)
operation during on-line fueling, method for minimizing reactivity changes in, 21:46919(P)
operation efficiency of, thorium—uranium-233 fuel management for, 22:20970(P)
operation experience of, conference on, 21:35615
operation in U. S. of, safety incidents during February to March 1970, 24:31034
operation method for, with fission product removal from in-core fuel elements, 23:40376(P)
operation of coupled-core, analysis of N. N. Krasovkii's theory for stable, (T), 22:18591
operation of fusion—fission, approximation equations for, 23:36733
operation of land-based nuclear, French legislation on civil responsibilities for, 22:33622 (NP-17432)
operation of two-region, method of, 21:15718(P)
operation of, analysis using VARI-QUIR-III program, 21:7900 (WANL-TME-1526)
operation of, application of control theory and nonlinear analysis to, 21:31984
operation of, calculation of optimum economic, 24:47875
operation of, description of computerized data recording and processing systems for, 24:4025 (DUN-SA-124)
operation of, economic evaluation of, 24:2341 (ORNL-4470, pp 199-203)
operation of, instabilities arising under severe conditions during non-adiabatic flow, 21:38466 (RT/ING-(67)2)
operation of, mathematical model for determining limits on controller gain for stable, 23:2123
operation of, nuclear materials management in, 21:15827
operation of, organization and instruction of personnel for, 23:4174 (RISO-M-809)
operation of, protection problems in control of, 23:37559 (NP-17851, pp 25-72)
operation of, review of basic principles for, 22:27513
operation of, statistical analysis of limiting conditions for, (T), 25:31638
operation of, use of digital computers for data processing associated with, 23:26618
operation of, use of hydraulic mapping method for optimum, (T), 24:33492
operation of, use of pulse generators for simulation of, 21:12209(P)
operation parameters of, use of lithium-drifted germanium gamma spectrometers for measuring, 21:43236
operational safety, summary of experience on, 21:40629
operations for, USAEC licensing requirements for, 23:37423
operations in Belgium during 1966, 23:28561(R) (NP-17819)
operations incidents during 1966 to 1968, review of abnormal, 24:4073 (ORNL-NSIC-64)
operations incidents in U.S. during May to July 1970, 25:7977
operations incidents in, analysis of reactivity perturbations for detection of, 25:60123
operations personnel for, training of, 22:22683 (DUN-1617)
operator licensing practices for, review of, 21:2927
operator training for, basic physics notes for course in, 22:5917 (APIO-1038)
operator training for, handbook on radiation safety and control for, 22:10011 (ORNL-TM-2034(Vol.2))
operator training for, heat theory and fluid flow handbook for, 23:7414 (ORNL-TM-2034(Vol.4))
operator training for, instrumentation and controls handbook for, 22:35670 (ORNL-TM-2034(Vol.5))
operator training for, reactor physics instruction handbook for, 22:35669 (ORNL-TM-2034(Vol.3))
operator training program for, detailed curriculum and schedule for, 22:37450 (WCAP-7170)
operator training programs for, problems in, 21:35636
operators and senior operators for, guide for licensing of, 22:46919 (TID-24662)
operators for, training and licensing requirements for, 24:18523
operators for, use of analog, digital, and hybrid computers for training, 23:31237 (CONF-681058-1)
operators for, use of electroencephalograph for determination of fitness of, 23:26147
operators for, use of two TR-10 Pace analog computers and Hanford D Reactor control room for training, 23:31175 (DUN-5381)
operators of, indices of health and clinical observations of, 21:8835
operators of, physical and psychological requirements for, 21:12885
parametric studies for, use of multidimensional least squares technique for, 22:6151
particle transport from core region of, design and performance of electrostatic guide for, 21:19497
performance analysis of, RAPID computer program for steady-state and transient, 21:35578 (LA-3694)
performance of prototype, collection and use of data and information on, 21:17528
performance of pulsed and steady-state, as neutron sources for radiography, 21:36304
performance of, comparison of isotopic sources and particle accelerators with, 22:30365
performance of, WIGL2 program for analysis of temperature, xenon, and control feedback effects on, 21:27696 (WAPD-TM-532(Add.1))
performance reliability of critical components of, 21:7975
period and power measurement in, comparison of wide-range analog, wide-range digital, and counting-Campbelling channels for, 22:53488
period and power measurements for, use of simultaneous linear and logarithmic circuits for, 22:10627 (CEA-R-3368)
period measurement of, description of circuit using radiation detectors with pulse integrators, 22:10091(P)
period measurement of, design of pulse integrator for, 22:7934(P)
period measurement of, digital system for, 23:7904(P)
period measurement of, linear-output integration comparison meter for, 23:6330(P)
period measurement of, logarithmic-conversion integration comparison type meter for, 23:6326(P)
period measurement of, method for continuous, 23:47335
period measurement of, voltage-dividing circuit with Zener diodes for, 23:9815(P)
period meter for, 22:27508(P)
period meter for, 22:27509(P)
period meters for control of, design of, 21:23686(P)
period meters for, performance during compromising scram-delay and fluctuation, 22:42390(T) (NSJ-tr-101)
period of, development of digital instrument for determining, 21:32511
period of, development of electronic equipment for measuring, 21:28312(T) (AD-645794, pp 25-45)
period of, digital device for measurement and control of, 25:1970(P)
period simulation in, ramp generator for very long, 22:37620
period simulators for, fabrication of solid-state circuits for, 21:36423 (DP-1119)
personnel at, method for quantitative assessment of reliability and errors of operator, 23:31141 (SC-R-69-1236)
personnel cooperation with hospitals and nuclear establishments in France for treatment of accident victims, 24:2687 (CEA-CONF-1338)
personnel for, elementary mathematic study handbook for operator, 23:4463 (ORNL-TM-2034(Vol.1))
personnel radiation exposure control in, budget measurement and analysis program for, 25:51122
personnel radiation monitoring in, economic gains from advancements in, 25:51121
perturbation location in operating, by out-of-core γ detectors, 23:15621
perturbation theory applications to, bibliography on, 21:27683 (IFA-FR-54)
perturbation theory for, use of importance conservation principle in, 23:11336
perturbation theory of, variational analogy between quantum mechanics and, 21:44893
perturbations in, correlation of change in fast neutron source worth to, 22:3943
photon transport in, numerical solution of linear integral Boltzmann equation for, (T), 25:18231
physics analyses at Bhabha Centre during 1969, summary of, 24:46109(R) (BARC-481)
physics analysis methods for, development of, 23:43189 (BNL-50149, pp 1-14)
physics analysis of hexagonal lattice, coordinate system generation for, (T), 22:44945
physics analysis of one dimensional, multigroup method for, 25:12841 (IAE-1938)
physics analysis of, computer code development for, 22:27480(R) (BNWL-634)
physics analysis of, computer code development for, 22:27481 (BNWL-634, pp 2.1-8)
physics analysis of, description of Argonne Reactor Computation (ARC) system for, 22:47039 (ANL-7332)
physics analysis of, experimental and theoretical methods for, 22:50847
physics analysis of, EXPOSUM code for, 25:12837 (RISO-M-1279)
physics analysis of, open-ended computational system for, 23:2102 (AI-AEC-Memo-12735)
physics analysis of, use of Monte Carlo method for numerical, 22:3941
physics and technology of, developments in, 24:41313 (IJS-252)
physics calculation methods for, comparison of quadrupole theory and transmission matrix, 22:48778
physics calculations and measurements on, progress summary Jan. to Mar. 1967, 22:12138(R) (BNWL-472)
physics calculations for uniform material-moderated and -reflected, two-group approximation for heterogeneous analysis of, (T), 22:37559 (ITEF-563)
physics calculations for various core geometries, TIMOC computer program subroutines for, 25:15404 (EUR-4536)
physics calculations for, 1968 summer ANS conference at Toronto on Monte Carlo applications to, 23:15725 (ANS-RPD-1)
physics calculations for, analytic solution of multigroup equations for, 23:43196
physics calculations for, anomaly in second order form of discontinuous variational method for, 24:26829 (RPI-328-188)
physics calculations for, application of combined third generation computer-Monte Carlo Method for large three-dimensional, 23:40443 (CONF-690401-, pp 659-75)
physics calculations for, application of Monte Carlo techniques to, 22:50849
physics calculations for, application of Monte Carlo methods to, 22:39902 (KAPL-P-3432)
physics calculations for, bibliography on use of Monte Carlo method in, 22:30344 (IFA-FR-53)
physics calculations for, bilinear averaging procedure for determining few group perturbation cross sections for, 23:28599 (EURFNR-612)
physics calculations for, capabilities of ARC system for, 24:47934 (ANL-7610, pp 465-537)
physics calculations for, CARONTE modular coding system for, 25:44187 (EACRP-A-135, pp 63-8)
physics calculations for, CITATION code for, 25:57169 (CONF-710302-(Vol.2), pp 939-52)
physics calculations for, coarse lattice technique for shortening two-dimensional SN-method, 25:31653 (KFK-1361)
physics calculations for, code optimization effects on machine independence of multilevel computer codes for, 23:40441 (CONF-690401-, pp 451-70)
physics calculations for, computer equipment conversion of Argonne Reactor Computation system for, 25:57140 (CONF-710302-(Vol.1), pp 464-71)
physics calculations for, computer system for automatic, 25:6149
physics calculations for, conference on modular coding systems for, 25:44181 (EACRP-A-135)
physics calculations for, conference on software developments and projected computational requirements for, 23:40314 (CONF-690401)
physics calculations for, COSTANZA computer codes for, 23:26108 (EUR-3940-1, pp 3-25)
physics calculations for, data acquisition and processing systems for, 25:46337 (ANL-7711)
physics calculations for, description of ARC modular computer system for large scale, 23:40439 (CONF-690401-, pp 337-43)
physics calculations for, description of JOSHUA computational modular system for large scale, 23:40438 (CONF-690401-, pp 324-36)
physics calculations for, description of NOVA computer system for, 22:33150
physics calculations for, design of modular systems for, 25:44186 (EACRP-A-135, pp 60-2)
physics calculations for, development and evaluation of computer codes for, 22:20779 (BNWL-624, pp 3.1-159)
physics calculations for, development of CODNUC system for, 25:44182 (EACRP-A-135, pp 5-10)
physics calculations for, development of synthesis methods for, (T), 25:28808
physics calculations for, difference method for solution of two-dimensional multigroup time-independent diffusion equations in, 25:28807 (ZJE-101)
physics calculations for, effects of scattering resonances in unresolved region on, 23:15726 (ANS-RPD-1, Paper 1)
physics calculations for, finite difference methods for, (T), 25:26067
physics calculations for, generation of neutron cross section data, 21:42780
physics calculations for, international co-operation in nuclear data compilation and evaluation for, 22:18109
physics calculations for, interpolation schemes for neutron cross section structure factors for, 25:31647 (HEDL-TME-71-40)
physics calculations for, IT method for, (T), 24:16299
physics calculations for, Japanese modular coding systems for, 25:44188 (EACRP-A-135, pp 69-86)
physics calculations for, mathematical models for, 22:42559
physics calculations for, method for approximating J-function in resonance integrals for, 23:52466 (WAPD-TM-893)
physics calculations for, modular code development for, 25:44183 (EACRP-A-135, pp 11-14)
physics calculations for, modularization of iteration procedures in, 25:57143 (CONF-710302-(Vol.1), pp 494-504)
physics calculations for, Monte Carlo computer codes available for, 22:14290 (BNWL-SA-1513)
physics calculations for, multigroup method of, 21:21656
physics calculations for, network organization of automated system for, 25:57146 (CONF-710302-(Vol.1), pp 516-30)
physics calculations for, numerical technique for convergence acceleration of fixed source and upscatter in, 23:37729
physics calculations for, PRODGROUP code for production of multigroup constants for, 25:20820 (KFKI-71-4)
physics calculations for, scheme for peripheral storage of data for, 25:44184 (EACRP-A-135, pp 38-49)
physics calculations for, solution of linear coupled differential equations for, (T), 24:16291
physics calculations for, summary of Canada trends in, 23:4418
physics calculations for, summary of heterogeneous methods for, 25:57184
physics calculations for, summary of trends in British, 23:4421
physics calculations for, summary of trends in Germany, 23:4419
physics calculations for, summary of trends in Japan, 23:4420
physics calculations for, summary of trends in U.S.A, 23:4422
physics calculations for, survey of Danish Monte Carlo methods for, 25:57166 (CONF-710302-(Vol.2), pp 887-900)
physics calculations for, theory and methods development for, 24:47934 (ANL-7610, pp 465-537)

physics calculations for, TR4 computer programs on, 21:25616 (BMwF-FBK-67-06)
physics calculations for, U. S. modular coding systems for, 25:44185 (EACRP-A-135, pp 50-9)
physics calculations for, use of DATATRAN modular system for, 25:57141 (CONF-710302-(Vol.1), pp 472-7)
physics calculations for, use of digital computer for, 22:6165
physics calculations for, use of ELEA 6001 computer for, 22:50869
physics calculations for, use of evolution operator method in, 25:60221
physics calculations for, use of Hamilton's principle for, (T), 24:16290
physics calculations for, use of JOSHUA Terminal System for, 25:34421 (TID-25691)
physics calculations for, use of modern perturbation theory in, 22:20849
physics calculations for, use of reflection and transmission functions in, 24:16293
physics calculations for, user experience with Argonne Reactor Computation system for, 25:57142 (CONF-710302-(Vol.1), pp 478-93)
physics calculations of periodically pulsed, point neutron kinetics model for, 21:35609
physics calculations of, use of digital systems for Boltzmann equation and group constants, 22:1889
physics characteristics of, description in Russian of computer program for, 23:52467
physics constants and parameters for, (E/T), 25:9948
physics constants for, computer program for calculation of thermal neutron, 25:60225 (JAERI-Memo-4394)
physics experiments, data processing by on-line computer, 21:8643
physics measurements for design of, SCORE computer program development for, 23:13402 (AI-AEC-12721, pp 5-27)
physics measurements for, description of college course for, 22:33104
physics measurements for, development of techniques for in-core, 24:20546
physics measurements for, techniques for calculation for, (T), 22:18658
physics measurements for, WHIST computer program for processing WIMS computer program output, 24:28995 (RD/B/N-1579)
physics measurements in fuel assemblies of, one-group calculations for multi-group effects on, (T), 22:27505
physics measurements in, formulation of waiting time analysis methods for processing neutron counting statistics from, 24:16288
physics measurements of plutonium fueled, europium oxide (Eu_2O_3)—uranium oxide (UO_2) core mockup for, 24:28996 (RT/FI-(69)23)
physics measurements of, use of single rod experiments for, (E/T), 24:24916
physics measurements on water—plutonium—aluminum lattices, 23:17265(R) (GA-9051)
physics of liquid moderated, METHUSELAH III code for, 23:52442 (AEEW-R-631)
physics of, analytic method for error estimate in, 25:15403
physics of, bibliography of data on, 24:5559 (LA-4225)
physics of, bibliography on computer programs for, 22:3585 (AED-C-34-02)
physics of, book on elementary, 22:30274
physics of, book on use of matrix calculations in, 22:35680
physics of, developments in Israel of, 24:36078
physics of, lecture notes on, 21:35719 (KR-117)
physics of, lecture notes on numerical methods in, 23:4402 (AEEW-M-677)
physics of, list of abstracts of AEK computer programs on, 23:45126 (RISO-M-924)
physics of, methods for calculation of, 24:4147
physics of, Netherlands research during 1969 to 1970 on, 25:26031(R) (NP-18711)
physics of, numerical analysis and computing methods in, 23:2114
physics of, one-dimensional slab invariant imbedding equations for, 24:50221
physics of, reactivity invariant integral relations for solutions of problems in, (E/T), 23:26109 (FEI-142)
physics of, summary of 1966 Israel research activities on, 22:25128 (IA-1128, pp 1-11)
physics of, summary of research progress on, 23:17269 (WASH-1125)
physics of, survey of nuclear data requirements for analysis of, 25:15402
physics of, Technological University of Delft course study on, 23:4428
physics parameter calculations for, HAMMER system of linked programs for, (T), 21:17518 (DP-1064)
physics parameter measurements for, mathematical correlation method for, 21:38710
physics parameters for slab-type two-dimensional, multigroup eigenfunction method for calculation of, 23:15715
physics parameters for split-cylindrical, use of group-space-dependent bucklings to simulate, 23:4412
physics parameters for, bibliography on, 22:7912 (LA-3740)
physics parameters for, comparison of theoretical and experimental values for, 22:33154
physics parameters for, description of NOVA modular system for, in Fortran, 22:39901 (KAPL-P-3431)
physics parameters for, developmental methods for Monte Carlo computer codes for, 23:15728 (ANS-RPD-1, Paper 2A)
physics parameters for, evaluation of Single Element Method for determination of, 22:3893 (MIT-2344-10)
physics parameters for, GMS 3 code for preparation of multigroup macroscopic, 23:2101 (AEEW-M-825)
physics parameters for, perturbation theory code PERT-IV for computing, 21:30104 (BNWL-409)
physics parameters from counting tube signals analysis, determination of subcritical multiplication factor, neutron lifetime, fission rate, and power, (E/T), 24:24919
physics parameters in water moderated uranium fueled lattices, (E/T), 24:22501
physics parameters of hydrogenous lattices in, modifications to PERSEUS code for, 25:8129 (AEEW-M-952)
physics parameters of multizone, calculation method for, 21:21733
physics parameters of multizone, few-group computation method for, (T), 21:21732
physics parameters of uranium—plutonium lattices, theoretical methods for analysis of, 25:54255 (A/CONF.49/P-351)
physics parameters of, effects of space dependent resonance self-shielding at zone boundaries on, (T), 25:31652 (KFK-1353)
physics parameters of, identification using quasilinearization, 21:38498
physics parameters of, methods for optimization of, (T), 25:57180
physics parameters of, solution of nonstationary kinetic equations with depletion for, (T), 24:36085
physics parameters of, variational method for optimization of, 24:52995
physics problems of, in Italy, 21:17469 (RT/FI-(66)13)
physics research programs for, description of joint Norway, Poland, Yugoslavia, and IAEA, 25:54261 (A/CONF.49/P-330)
physics research programs on, experimental and theoretical, 21:23710 (BNL-994, pp 45-69)
physics research using pulsed-source technique, summaries of, (E/T), 23:5749 (KURRI-TR-40)
physics studies at Kjeller, 21:2864(R) (KR-109)
physics studies in India in, annual report on theoretical, 24:16270(R) (BARC-418)
physics studies in India on, annual report on theoretical, 24:16010(R) (BARC-423)
physics studies on, digital computer programs for, 23:33080(R) (BNWL-1053)
physics studies on, digital computer programs for, 23:47233(R) (BNWL-1150)
physics studies on, digital computer programs for, 24:7168(R) (BNWL-1240)
physics studies on, digital computer programs for, 24:18697(R) (BNWL-1304)
physics studies on, digital computer programs for, 24:31041(R) (BNWL-1381-1)
physics, calculations for, pseudo-fission product formalism for unresolved resonance region, 23:5780
pipe joint seals in, description of inclined radial groove, 22:10092(P)
pipe seal for, description of concentric cylinder with sphere covered hole for horizontal, 22:7867(P)
pipes for, research program status on rupture mechanisms of, 25:22070
pipes for, rupture of primary coolant system, 23:24887
pipes for, time-to-damage method for estimating reliability of, 23:37799
piping for, description of plug-seal coaxial pipe for coolant, 22:30402(P)
piping for, use of acoustical emission for crack detection in pressure, 22:12008(R) (BNWL-537)
piping in, acoustic sensing device for flaw growth detection in pressure, 21:35566 (BNWL-SA-1076)
piping of, testing by acoustic emission, 22:21294(R) (BNWL-CC-763)
piping systems for, analysis of thermal ratchetting in cylinder shaped, (T), 25:54311
plasma production in, microwave analysis of, 21:7203
plug for description of limit switch controlled chain-pulley drive horizontal, 22:14345(P)
poison introduction system for, with gaseous neutron absorbers for shutdown or shim control, 23:9175(P)
poison materials development for, review of, 21:1898
poison materials development for, review of, 23:9263
poison transients in coupled, with ING booster neutron source, 23:23746(R) (AECL-3257)
poisoning by isomeric cobalt-58 and copper-64, (T), 23:3963(T) (BNL-tr-224)
poisoning by isomeric cobalt-58 and copper-64, (T), 22:44674
poisoning by self-shielded bodies of gadolinium oxide, computer programs for depletion calculations for, (T), 23:1759 (RD/B/N-1042)
poisoning during operation, graph-analytic calculations of samarium, 23:28608
poisoning materials for, metallic and nonmetallic, 21:30304
poisoning of, review of materials used for, 21:15798
poisoning of, review of recent developments in materials used for, 21:20468
poisoning optimization in, calculation for solid burnable, 21:42738
poisoning oscillations in, global stability for xenon, 21:42774
power bursts with prompt negative temperature coefficient of reactivity in, statistical fluctuations of, 21:25674
power calculations for, effects of choice of trial functions and weighting functions on synthesis technique of, 22:1882 (KAPL-P-3392)
power change with internal feedback in, methods for space-time optimal, (T), 25:60241
power coefficients of reflected plane, minimization of variations in, (T), 25:41594
power density measurements in, design of fission thermocouples for, 22:30838
power density spectral determination in, design of digital transferometer for fission chamber for, 22:23261 (CEA-R-3241)
power determination for, evaluation of neutron fluctuation method for, 21:34079 (BNWL-SA-1111)
power distribution in irradiated fuels, determination of, 21:40695(R) (EURAEC-1886)
power distribution in multizone, γ scanning method for, (E), 25:48342 (JAERI-Memo-4329)
power distribution in non-uniform lattices in, nodal integral transport method for calculation of two-dimensional, 25:57156 (CONF-710302-(Vol.2), pp 655-78)
power distribution in undermoderated, techniques for measuring, 21:19970
power distribution in, explicit model for space and time dependent, 24:24913
power distribution in, LEIDI code for calculation of, 25:57000
power distribution in, out-of-core γ detectors for measurement of local, (E/T), 24:47966 (CONF-680980-, pp 103-22)
power distribution in, out-of-core γ detectors for measurement of local in-core, 23:15745
power distribution in, response of out-of-core radiation detectors for measuring, 22:30839
power distribution in, thermal criteria for optimum axial, (T), 24:47940
power distribution in, use of modern control theory for analysis of spatial, 25:60213
power excursion calculation in multi-region, SPEX-1 code for space-dependent, 22:35718
power excursion calculations for, asymptotic expansions for approximate, 22:5998
power excursion calculations for, use of canonical coordinate transformations for, 23:15714
power excursion in, expansion method for solution of nonlinear boundary-value problems for distribution of energy release from, 22:18593
power excursions from step insertions of reactivity in, point kinetics equations for description of, 23:47300 (CNM-R-2(Vol.2), pp 943-59)
power excursions with ramp reactivity insertion in, effect of delayed neutrons on, 21:7988
power level deviation in, design and performance of automatic ranging picoammeter for indicating, 23:35564
power level measurements in, fission electric cell for, 22:45289
power level monitoring in, gaseous Cherenkov detector for detection of prompt high-energy gamma rays for, 22:4440
power level stability of, methods of analysis of nonlinear, 21:25659
power levels of, digital data acquisition system for monitoring and displaying, 21:38745 (NYO-3738-7)
power levels of, digital data acquisition system for monitoring and displaying rate-of-change, 21:38745 (NYO-3738-7)
power levels of, plasma production and analysis technique for determining, 22:37613(P)
power measurement for, performance of fixed position fission chamber for wide range, 23:34903
power measurement in, use of Cherenkov radiation detector with quartz emitter for, 23:4479
power measurements for, period, reactivity, and transfer function techniques for, 23:21422
power measurements in, design of comparator circuit for, 22:23392(P)
power measurements in, development of multipurpose current amplifiers for, 21:32515
power measurements in, method of deriving signal, 21:2908(P)
power measurements in, use of space-dependent neutron-fluctuation method for, 21:38532
power monitoring in, development of in-core gamma detector for, 25:366 (AECL-3564)
power monitoring in, microwave diagnosis of plasma produced in gas-filled cavity resonator by γ heating for, 22:37585
power of, development of digital ratemeter for determining, 21:32511
power of, digital device for measurement and control of, 25:1970(P)
power of, effects of collapsed group cross sections on calculations of, 22:33086 (ANL-7310, pp 431-511)
power of, maintenance of log current and period amplifier used with gamma-compensated ionization chamber for monitoring reactor power, 22:43029 (ORNL-TM-1638(Pt.36))
power of, noise analysis for measurement of absolute, 25:37114 (JAERI-Memo-4276)
power of, use of xenon poisoning variation for calculation of, (E/T), 24:22503
power oscillations in, analysis of xenon induced, (E/T), 24:50231
power oscillations in, analysis of xenon-induced spatial, (E/T), 21:21641 (KAPL-M-6596)
power oscillations in, derivation of equations for periodic, (T), 24:33495
power oscillations in, effects of delayed neutrons on autonomous nonlinear, (T), 24:50228
power oscillations owing to linear feedback, 21:23661
power oscillations use to derive describing function, (T), 21:5602 (BNL-9563)
power output of, description of combined neutron flux and heat detectors for, 22:35701(P)
power output of, use of detector and neutron density fluctuation proportionality for measurement of, 23:43213(P)
power perturbations in, source importance function of ratio perturbation theory for analysis of, (T), 25:41604
power regulating device for, design for, 21:23695(P)
power response to reactivity inputs, use of idempotent matrices for determination of, 25:10302 (BARC-502)
power spectral densities in, statistical analysis of, 21:21793
power spectral density estimates for, statistical analysis of, 21:35608
power spectral density for, digital computer analysis of noise data for calculation of, 24:43714 (IN-1374)
power supplies for vital functions of, evaluation of, 21:2900

power transients in, use of modal analysis methods for describing fast, 24:2060
pressure systems for, acoustic emission testing for incipient failure in, 23:26479 (BNWL-997)
pressure systems for, acoustic emission testing method for detecting flaw growth in, 25:44562 (BNWL-SA-3147)
pressure systems for, detection of acoustic emission in, 23:29115
pressure tube design for, 21:27844(P)
pressure tubes for, acoustic emission behavior of, 22:268 (BNWL-545)
pressure tubes for, description of fluid filled annular, 25:39355(P)
pressure tubes for, description of stop valve for sealing, 25:39254(P)
pressure tubes for, design of equipment for monitoring, 21:43121(P)
pressure tubes for, destructive and nondestructive testing of SAP, 24:33851 (CONF-671061-(Vol.1), pp 121-41)
pressure tubes for, effects of enthalpy and pressure on inner-wall temperatures and heat transfer coefficients in, 23:6037
pressure tubes for, with coolant flow from center to both ends, 24:2073(P)
pressure tubes of, reliability analysis of zirconium, 25:6191 (RISO-214, pp 255-87)
pressure vessel closure in, material evaluation for O-ring, 21:21626 (APED-4856)
pressure vessel construction for, prestressing methods used in concrete, 23:23898
pressure vessel cooling system design and analysis for, KULAID program for concrete, 21:7869 (GAMD-6928)
pressure vessel deformation, strain-gage measurement of, 21:8140
pressure vessel design and fabrication for, 22:27450
pressure vessel design for, spherical, 21:32043(P)
pressure vessel fabrication for, 22:7915 (NUCLEX-66)
pressure vessel for integral heat exchanger-type, description of cylindrical prestressed concrete, 23:19593(P)
pressure vessel for pressure tube type, description of free-expansion, 23:45147(P)
pressure vessel for, concrete mix and prestressing cable specifications for spherical prestressed concrete, 22:22863 (TRG-Report-1204(Pt.5))
pressure vessel for, description of corrugated foil thermal insulation partitions in, 24:9166(P)
pressure vessel for, description of cylindrical prestressed concrete, 22:25193(P)
pressure vessel for, description of multi-section cylindrical prestressed concrete, 22:39922(P)
pressure vessel for, description of opposing horizontal-cable-anchored multiple longitudinal ribs for, 23:19485(P)
pressure vessel for, description of permeable barrier coolant flow regulator for prestressed concrete, 22:37591(P)
pressure vessel for, description of prestressed concrete, 22:20964(P)
pressure vessel for, design of prestressed concrete, 21:17768(P)
pressure vessel for, design of shielded closure for, 23:13922(P)
pressure vessel for, effects of coolant loss conditions on stress failure of, 24:24861 (NP-18198)
pressure vessel for, fabrication of prestressed concrete, 21:43100(P)
pressure vessel for, failure test data for spherical prestressed concrete, 22:22864 (TRG-Report-1204(Suppl.1))
pressure vessel for, long-term temperature loading prediction methods for spherical prestressed concrete, 22:22862 (TRG-Report-1204(Pt.4))
pressure vessel for, structural behavior and safety of spherical prestressed concrete, (E/T), 22:22859 (TRG-Report-1204(Pt.1))
pressure vessel for, test data on structural behavior and safety of spherical prestressed concrete, 22:22860 (TRG-Report-1204(Pt.2))
pressure vessel for, with magnetically fastened pressure relief ports, 22:20967(P)
pressure vessel for, with prefabricated prestressed concrete segments, 23:2151(P)
pressure vessel linings, welding of stainless-steel, 22:2601
pressure vessel materials, use of nickel steel as, 22:2671
pressure vessel of, description of frustum shaped cover for reinforced concrete, 25:54301(P)
pressure vessel of, design requirements of support for prestressed concrete, 24:4167 (GAMD-9282)
pressure vessel of, development of gas seal for, 23:49562
pressure vessel penetrations for, description of hermetically sealed drive shaft assembly for, 25:12863(P)
pressure vessel shielding for, optimization of, (T), 23:45063(T) (JPRS-48590)
pressure vessel specifications for, 21:12194
pressure vessel steel for, fatigue crack propagation in, 22:23767
pressure vessel steel for, radiation effects on, 21:20544
pressure vessel support for, description of prestressed concrete, 24:53005(P)
pressure vessel support for, design of load-absorbing, 22:10097(P)
pressure vessels for description of liquid-cooled support structures for pressure tubes in, 22:25163(P)
pressure vessels for elastic analysis of model of spherical prestressed concrete, 23:11215
pressure vessels for liquid-cooled and -moderated, description of sealed and lined prestressed concrete, 23:11195(P)
pressure vessels for, ACOUST-code for structural fault location by acoustic triangulation in, 23:9241 (IDO-17280)
pressure vessels for, AEC proposed design criteria for, 22:22884
pressure vessels for, analysis of deformation stresses in lining of, (T), 25:54315
pressure vessels for, analysis of neutron fluence levels on steel, (E/T), 25:41622
pressure vessels for, analysis of thermal ratchetting in cylinder shaped, (T), 25:54311
pressure vessels for, approximate method for calculation of time dependent stresses in prestressed concrete, 25:56988
pressure vessels for, automatic ultrasonic inspection of welds in, 25:12790
pressure vessels for, axial rib effects on stresses in prestressed concrete, (T), 25:56990
pressure vessels for, bibliography on in-service failures of, 24:26750 (CEA-Bib-79(Add.1))
pressure vessels for, bibliography on prestressed concrete, 23:28456 (AED-C-1-15)
pressure vessels for, bibliography on prestressed concrete, 23:16011 (ORNL-TM-1675(Rev.1))
pressure vessels for, bibliography on steel, 23:28457 (AED-C-1-16)
pressure vessels for, BODFO 2 computer program for stress analysis of prestressed concrete, 23:21571
pressure vessels for, brittle—fracture design concepts for, 21:38747
pressure vessels for, brittle—fracture design concepts for, 21:38748
pressure vessels for, calculation of long-term thermal stresses in prestressed concrete, 23:11216
pressure vessels for, calculations for fabrication of laminated steel, 22:30354
pressure vessels for, calculations for optimum radiation and thermal shielding for steel, 23:23886
pressure vessels for, computer program for evaluation of creep and shrinkage effects on spherical prestressed concrete, 23:10313
pressure vessels for, computer program for optimum design parameters of cylindrical steel, 23:15748
pressure vessels for, conference on development of prestressed concrete, 25:31546 (EUR-4531)
pressure vessels for, conference on stress analysis in steel, 25:54053
pressure vessels for, description of design stress analysis and quality control for fabrication of large steel, 23:21573
pressure vessels for, description of earthquake-proof circumference-ringed cylindrical concrete, 22:48755(P)
pressure vessels for, description of enclosed multiple coolant channels and instrumentation channels in, 22:30399(P)
pressure vessels for, description of prestressed concrete, 25:26078(P)
pressure vessels for, description of prestressed concrete, 24:50107(P)
pressure vessels for, description of prestressed reinforced concrete cylinder shaped, 25:28823(P)
pressure vessels for, description of prestressed, lined concrete, 22:12152(P)
pressure vessels for, description of steel lined prestressed concrete, 24:53006(P)
pressure vessels for, design and development in Europe and UK, 25:22071
pressure vessels for, design and fabrication of prestressed concrete, 22:27953 (ORNL-4227)
pressure vessels for, design and inspection of Swedish, 22:30801
pressure vessels for, design and testing of prestressing tendon systems for concrete, 23:11233
pressure vessels for, design and testing of steel, 22:27499
pressure vessels for, design characteristics of steel lined prestressed concrete, 25:57203(P)
pressure vessels for, design data on radial nozzles in, (E/T), 22:30347 (TID-24342)
pressure vessels for, design of anchorage systems for prestressed concrete, 23:9612 (ORNL-TM-2378)
pressure vessels for, design of closure for penetrations in walls of, 22:10469(P)
pressure vessels for, design of closure plug for standpipes for, 21:44962(P)
pressure vessels for, design of cylindrical prestressed concrete, 25:1887(P)
pressure vessels for, design of flange joint for, 21:43113(P)
pressure vessels for, design of flanged joints for, (T), 24:47973 (ZJE-61)
pressure vessels for, design of gas-tight seals for, 23:19893(P)
pressure vessels for, design of large reinforced holes in prestressed concrete, 23:11204
pressure vessels for, design of liners for prestressed concrete, 23:11224
pressure vessels for, design of prestressed concrete, 21:23752
pressure vessels for, design of prestressed concrete, 21:46975(P)
pressure vessels for, design of reinforced concrete, 21:23681(P)
pressure vessels for, design of seal for entry port of, 21:46996(P)
pressure vessels for, design of thermal insulation for prestressed concrete, 24:47976(P)
pressure vessels for, design of thermal insulation for concrete, 22:6180(P)
pressure vessels for, design of thermal insulation for prestressed concrete, 24:47977(P)
pressure vessels for, design of thermal insulation for, 23:19899(P)
pressure vessels for, design optimization of thick-walled, 23:26416
pressure vessels for, design parameters for dual-layer load-carrying prestressed concrete, 23:21576
pressure vessels for, design parameters of cylinder shaped prestressed concrete, 25:39352(P)
pressure vessels for, design, construction, and testing of prestressed concrete, 23:11232
pressure vessels for, determination of stresses in cylindrical models of, (E), 22:27498
pressure vessels for, determination of time-dependent deformations of prestressed concrete, 21:38765
pressure vessels for, development in Germany of prestressed concrete, 25:31662 (EUR-4531, pp 59-71)
pressure vessels for, development of prestressed concrete, 21:17541
pressure vessels for, development of prestressed concrete, 22:6186
pressure vessels for, development of prestressed concrete, 22:15267(R) (BMI-X-10220)
pressure vessels for, development of prestressed concrete, 25:19297
pressure vessels for, development of prestressed concrete, (E/T), 24:18790(R) (GA-9488)
pressure vessels for, development of steel cylindrical, 22:3936 (ZJE-9-67)
pressure vessels for, dynamic relaxation method application to local stress distribution around anchorage zones and holes in prestressed concrete, 23:11201
pressure vessels for, dynamic relaxation method for calculation of stress and strain in concrete, 24:16754
pressure vessels for, dynamic relaxation method for stress calculations for prestressed concrete, 25:56987
pressure vessels for, economics and feasibility evaluation for simulated stress-testing of large scale prestressed concrete, 23:15739 (ORNL-TM-2390)
pressure vessels for, effect of stress concentration around holes on strength of prestressed concrete, 23:11205
pressure vessels for, effect of temperature distribution in walls on design of prestressed concrete, 23:11221
pressure vessels for, effects of fast neutrons and hydrogen concentration on tensile properties of steel, 23:33117 (IN-1228, pp 1-19)
pressure vessels for, effects of high temperatures on mechanical properties of prestressed concrete, 23:18285 (BMI-1855)
pressure vessels for, effects of inspection standards on fabrication on, 25:44110 (CONF-700224-, Paper 5)
pressure vessels for, effects of long-term thermal creep in prestressed concrete, 23:11214
pressure vessels for, effects of neutron radiation on embrittlement of steel, 25:39351
pressure vessels for, effects of prestressing, material strength, environmental conditions, and long-term stresses on safety of prestressed concrete, 23:11228
pressure vessels for, effects of temperature and compressive stresses on strain behavior in prestressed concrete, 23:10317
pressure vessels for, effects of temperature on prestressed concrete, 25:25975
pressure vessels for, effects of temperature on prestressed concrete, (E/T), 25:25976
pressure vessels for, effects of temperature on relaxation of prestressing wires in concrete, 23:10204
pressure vessels for, effects of wire relaxation behavior on life of prestressed concrete, 23:10205
pressure vessels for, equipment for radiographic inspection of, 25:44112 (CONF-700224-, Paper 7)
pressure vessels for, evaluation of steel and prestressed concrete for, 21:14365(T) (ORNL-tr-1568)
pressure vessels for, fabrication and failure testing of model prestressed concrete, 24:20553 (TID-25367(Vol.1))
pressure vessels for, fabrication and failure testing of model prestressed concrete, 24:20554 (TID-25367(Vol.2))
pressure vessels for, fabrication and welding methods for, 25:22033
pressure vessels for, fabrication of end closures for large, 21:41068
pressure vessels for, fabrication of steel, 23:36032 (ZJE-37)
pressure vessels for, fabrication of tube plates for, 22:10474(P)
pressure vessels for, failure testing of prestressed concrete, 25:56992
pressure vessels for, fatigue and fracture reliability analysis of, 25:39344 (CONF-710512-7)
pressure vessels for, finite element method for analysis of thermal effects on stresses in prestressed concrete, 23:11217
pressure vessels for, finite element method for design of, (T), 25:18257
pressure vessels for, finite element method for stress analysis of prestressed concrete, 23:11212
pressure vessels for, fracture testing of steels for, 22:3935(R) (WCAP-3677-5)
pressure vessels for, French regulations concerning prestressed-concrete, 21:32037(T) (ORNL-tr-1678)
pressure vessels for, heat treatment for improving material properties of thick-walled, 22:7917 (NUCLEX-66, Paper 2)
pressure vessels for, high stress fatigue analysis of nozzle positions on, 24:11335
pressure vessels for, high temperature effects on strength of prestressed concrete, 22:44917(R) (BMI-X-10236)
pressure vessels for, high-stress low-cycle fatigue testing of nozzles for, 22:6174
pressure vessels for, hooping cable system for prestressed concrete, 23:11220
pressure vessels for, industry-sponsored development of in-service inspection methods for, 25:21259
pressure vessels for, instrumentation, construction and tensioning, and testing methods for structural behavior and safety of prestressed concrete, 22:22861 (TRG-Report-1204(Pt.3))
pressure vessels for, instruments and techniques for inspection of prestressed concrete, 23:11198
pressure vessels for, International Standards Organization activities for development of standards for, 24:16131
pressure vessels for, international survey of codes for, 25:39231

pressure vessels for, liner design and construction for prestressed concrete, 23:11223
pressure vessels for, mathematical model of creep behavior in spherical prestressed concrete, 23:10315
pressure vessels for, mechanical properties of heavy-section steel plates for, 22:10524(R) (ORNL-4176)
pressure vessels for, model study for stress analysis of prestressed concrete, (E), 24:29095 (ORNL-4346)
pressure vessels for, model testing for long-term performance of prestressed concrete, (E), 25:10325 (ORNL-TM-3246)
pressure vessels for, neutron irradiation effects on embrittlement of, 25:23277
pressure vessels for, optimum shapes for maximum strength of large, 22:7916 (NUCLEX-66, Paper 1)
pressure vessels for, overload and ultimate load behavior of end slabs of prestressed concrete, (E/T), 25:56986
pressure vessels for, performance of linear accelerator for radiographic inspection of, 25:44113 (CONF-700224-, Paper 8)
pressure vessels for, plastic fatigue embrittlement of steels for, 22:2609 (EURAEC-1892)
pressure vessels for, powder underlay strip welding of liners for, 23:29044
pressure vessels for, practical and economic design aspects of cylindrical prestressed concrete, 23:11225
pressure vessels for, pressure and thermal testing of cylindrical model prestressed concrete, 23:11209
pressure vessels for, pressure testing and evaluation of model of prestressed concrete, 23:11213
pressure vessels for, pressure testing of end slabs of prestressed cylindrical, 22:12485
pressure vessels for, prestressing method with tensioned cables around vessel circumference for concrete, 23:11219
pressure vessels for, prestressing methods for prestressed concrete, 24:47851(P)
pressure vessels for, prestressing procedure for concrete, 21:21800 (EUR-3264.f)
pressure vessels for, prestressing tendon requirements for concrete, 23:11218
pressure vessels for, properties affecting failure behavior of prestressed concrete, 23:10316
pressure vessels for, properties of high-strength alloys as, 22:15181 (GEMP-1002, pp 108-22)
pressure vessels for, properties of steels for, 23:28641
pressure vessels for, properties of welds used in fabrication of, 22:634
pressure vessels for, properties requirements for steel, 23:28467
pressure vessels for, radiation effects on mechanical properties of, 25:49493
pressure vessels for, radiation effects on prestressed concrete, 23:10319
pressure vessels for, radiation effects on steel components of prestressed concrete, 23:10243
pressure vessels for, radiography of nozzle components for, 24:395
pressure vessels for, recurring inspection of, 22:30799
pressure vessels for, relation of design criteria to safety of prestressed concrete, 23:11230
pressure vessels for, relationships between long- and short-term compressive strength in prestressed concrete, 23:10318
pressure vessels for, reliability evaluation using fracture mechanics, 25:22074
pressure vessels for, research on enlargement of, 22:3945
pressure vessels for, results of theoretical and experimental studies on mockups of externally prestressed concrete, 24:16320 (EUR-4280(Vol.1), pp 187-222)
pressure vessels for, review of concrete properties in prestressed, 23:10314
pressure vessels for, review of development and fabrication techniques of prestressed concrete, 23:47200
pressure vessels for, review of development of prestressed concrete, 25:30019 (EUR-4531, pp 27-58)
pressure vessels for, review of failure mechanisms in steel, 22:30802
pressure vessels for, review of instrumentation for prestressed concrete, 23:11199
pressure vessels for, review of photoelastic method analysis of thermal stresses in, (E/T), 23:21477
pressure vessels for, safety analysis of prestressed concrete, (T), 22:20945
pressure vessels for, safety design requirements for prestressed concrete, 23:11227
pressure vessels for, scattered-light photoelastic analysis of stress distributions in small axisymmetric epoxy models of prestressed concrete, 23:17283 (ORNL-TM-2444)
pressure vessels for, shear strength of end slabs of prestressed concrete, (E/T), 25:54292 (UILU-ENG-71-2019)
pressure vessels for, shrinkage-induced stresses in reinforced concrete, 21:23755
pressure vessels for, spatial temperature distribution in walls of prestressed concrete, (T), 24:38531
pressure vessels for, static model tests on stresses in, 23:23899
pressure vessels for, statistical evaluation of failure behavior of, 23:21505 (IRS-I-34(1968))
pressure vessels for, strain distributions around holes in prestressed concrete, 23:11202
pressure vessels for, strain measurement techniques in prestressed concrete, 23:11200
pressure vessels for, stress analyses on model of prestressed concrete spherical, 23:11210
pressure vessels for, stress wave emission failure testing of cylinder shaped prestressed concrete, (E), 23:52482 (AGC-4190)
pressure vessels for, stress wave emission techniques for incipient failure detection in, 25:44137 (CONF-700224-, Paper 3)
pressure vessels for, stress-strain behavior of prestressed concrete, (E/T), 25:56993
pressure vessels for, stress-wave analysis technique for detection of incipient failure of, 22:16313 (CONF-671011-, pp 127-62)
pressure vessels for, stresses in cable anchorage zone of prestressed concrete, 23:11203
pressure vessels for, structural mechanics of prestressed concrete, 25:56882
pressure vessels for, surveillance methods for measuring neutron dose and spectra in, 25:32760
pressure vessels for, surveillance program for steel, 25:39142 (IAEA-117, Paper 5a)
pressure vessels for, system for automatic ultrasonic inspection of welds in, 25:44111 (CONF-700224-, Paper 6)
pressure vessels for, temperature distribution evaluation and cooling system design for liners of prestressed concrete, 23:11222
pressure vessels for, tensile and Charpy V-notch data for A533 Grade B Class 1 steels for, 22:44926(R) (WCAP-3677-8)
pressure vessels for, tensile properties of carbon and nickel steels used in, 22:17147 (NRL-6649)
pressure vessels for, tensile properties of high-strength steel cables for prestressed concrete, 23:21568
pressure vessels for, testing of thick A533 steel, 23:991
pressure vessels for, testing of thick-section Type A533B steel for, 25:22073
pressure vessels for, thermal conductivity measurements of support skirts of, 22:1829
pressure vessels for, thermal stress analysis and design requirements for prestressed concrete, 24:11336
pressure vessels for, three dimensional stress analysis of concrete, (T), 25:54075
pressure vessels for, two-dimensional thermoelasticity computer program for stress analysis of prestressed concrete, 23:21472
pressure vessels for, two-dimensional time-dependent deformation analysis of perforated end caps for prestressed concrete, (E/T), 25:56985
pressure vessels for, use of model structures to determine temperature loading of prestressed concrete, 23:11206
pressure vessels for, use of models in design of prestressed concrete, 23:11211
pressure vessels for, use of moisture gages for indication of drying patterns in prestressed concrete, 23:9818
pressure vessels for, use of mortar model for stress analysis of, 23:24357
pressure vessels for, use of prestressed concrete for fabrication of, 21:30086 (AED-C-01-14)
pressure vessels for, use of scale models for strength testing of prestressed concrete, 23:11208
pressure vessels for, use of steel cover on prestressed concrete, 25:60258(P)
pressure vessels for, vertical stress limits for clamp anchors of prestressed concrete, 25:31663 (EUR-4531, pp 489-505)
pressure vessels for, with thin steel shells surrounded by metal girders and rings, 25:60070(P)
pressure vessels of concrete, description of central column secured reactor core with peripheral expansion supports in, 22:37574(P)
pressure vessels of, analysis of anisotropic small strain plasticity in, (T), 24:24930
pressure vessels of, calculation of fast and thermal neutron and γ radiation heat generation in cylinder shaped, (T), 24:20625
pressure vessels of, construction requirements and techniques for prestressed concrete, 24:24822
pressure vessels of, crack initiation and propagation mechanics for sphere shaped steel, 23:52499
pressure vessels of, description of dual cover safety closures for prestressed concrete, 23:52496(P)
pressure vessels of, design requirements and seismic stress analysis of multiple column support for prestressed concrete, 24:4166 (GAMD-9281)
pressure vessels of, effects of seismic stresses on design requirements of support for prestressed concrete, 24:4168 (GAMD-9283)
pressure vessels of, inspection procedures and requirements for steel, 24:7100 (STI/DOC-10/99)
pressure vessels of, lumped parameter method for calculation of crack propagation in prestressed concrete, 24:24830
pressure vessels of, stress analysis of prestressed concrete, (T), 24:26845
pressure vessels, fabrication and welding methods for, 21:30297
pressure-tube, description of concentric independent expansion tubes for, 22:12066(P)
primary coolant purification using oxide-covered iron pellet beds, 21:39098(P)
process tubes of, development of thermal-EMF detector for determination of zirconium hydride in zirconium alloy, 25:23909 (DUN-4238)
prompt-power coefficient for linearly stable, use of canonical coordinate transformations for simplified, 23:15714
protection and safety systems for, assessment of sensing channels for, 22:53480
protection systems for, design and performance requirements of, 24:24867
protection systems for, design of reliable, (T), 25:51249
protection systems for, design procedure for optimum noise filter for, 25:60248
protection systems for, standards for, 25:44142 (RDT-C-16-1-T)
protection systems of, development of integrated, 25:6045
pulse duration of pulsed, linear accelerator for shortening, 23:49275
pulsed-neutron experiments with reflected, interpretation of, (E/T), 22:5753
pumps for, description of coolant, 25:37142
pumps for, description of water cooling system for shaft seals and radial bearings of primary, 25:37145(P)
rabbit systems for neutron activatable pellets, design of, 24:20992(P)
radiation conditions in, effects on californium-252 production of, 25:57067
radiation damage on steels in, correlation of, 23:50978(R) (BNWL-971)
radiation detectors for use in, design of ionization chamber, 23:19963(P)
radiation dose from, to population, calculation of, 21:45640
radiation dose rate from, chemical method for determining α and γ, 24:48561
radiation dose rate in, chemical method for determining fast-neutron fraction of, 21:38753
radiation effects on materials for, use of high energy particle accelerators for, 24:7057
radiation effects on pressure vessels for, effects of annealing on, 21:22897 (WAPD-T-1834)
radiation effects studies in, design of EPR spectrometers for, 21:17943(P)
radiation facilities of, measurement of neutron energy spectrum and intensity in, 21:42830
radiation fields in pulsed, microwave interferometric method for instantaneous measurement of, 25:51054
radiation hazards associated with operation of, review of, 23:43509
radiation hazards from, QJHAZ computer program for analysis of, 25:8104 (IA-1206)
radiation magnitudes and units, 22:17024
radiation measurement of, methods of internal, 21:40645
radiation measurements in, developments in calorimetric, 21:16208 (UCRL-50173(Suppl.1))
radiation measurements in, instrumentation and techniques for, 21:19959
radiation monitoring in areas of, use of doorpost on exit monitors for, 22:43300 (AERE-PR/HPM-12)
radiation monitoring in vicinity of Italian, 21:39055(R) (PROT.-SAN.-02/66)
radiation monitoring in vicinity of Italian, 21:39056(R) (PROT.-SAN.-10/66)
radiation monitoring near, use of photoluminescent dosimeters for, 22:33674
radiation monitoring of environment of, in South Africa, 23:26773
radiation monitoring of, programs of U.S. Public Health Service for, 23:6451 (PHS-PUBL.-1224)
radiation monitoring system for, automatic, 25:46652(P)
radiation protection at Chinon, organization of, 23:12116
radiation protection for personnel of, using barrier creams, 21:4842
radiation protection of personnel in vicinity of, code of practice for, 22:4628
radiation survey near, performance of methane gas flow proportional detector for, 23:26526
radioactive aerosol release from, Pacific Northwest Laboratory research on, 21:43062
radioactive contamination of milk following accidents at, 21:24417 (RA-8)
radioactive debris from destruction of nuclear, effects of, on skin of mammals, β, 22:36249 (AD-661489)
radioactive effluents from, accumulation by marine organisms of, 25:55149 (BNWL-SA-4048)
radioactive effluents from, mathematical evaluation of environmental contamination from, 24:31487 (JUL-637-ST)
radioactive effluents from, safety analysis of, 25:31604
radioactive gases from, efficiency of activated charcoal and molecular sieves for trapping, (E), 25:37796(R) (CEA-N-1364)
radioactive releases by, environmental monitoring program for accidental, 24:7844
radioactive waste disposal systems for, performance of activated charcoal delay lines for cover gas and offgas, 25:51251
radioactivity from, equipment and methods for monitoring, 23:50130
radioactivity monitoring in environs of nuclear, 22:51570 (NP-17401)
radioactivity monitoring in environs of, equipment and method, 24:44130
radioactivity release from, computer program for calculation of dose from accidental, 22:19332 (ORNL-4086)
radioactivity release from, method for calculating downwind radiation dose for, 25:49187
radioisotope production in US, review of programs for, 22:8316
radioisotope production in, calculations and nomograms for, 24:31591 (IAN-ARI-2)
radioisotope production in, optimization of irradiation schedules for, 23:325
radioisotope release from, contamination of ruminants by accidental, review of, 21:28460
radionuclides in effluent water from, reduction of, by addition of sodium silicate to process water, 21:22364(R) (BNWL-235-2)
random processes in, partial differential equations for functional analysis of, 21:25673
rapid heating in, monitoring with intrinsic thermocouples, 21:28164
rating similar, thermal performance index for, (T), 21:8020
RDT standards for, listing of tentatively approved, 22:25098(R) (ORNL-TM-2164)
RDT Standards Program for, listing of standards for, 22:27416(R) (ORNL-4228)
reaction diffusion theory calculations for, RECAP-D depletion and edit code for RECAP-4C Monte Carlo, 23:11345 (KAPL-M-6940)
reaction kinetics for small regions in, non-multigroup adjoint Monte Carlo calculation of, (T), 23:21558 (AI-AEC-12774)
reactivity accidents in, modified Helmholtz modal expansion method for space-dependent reactor dynamics analyses of, 23:13579

reactivity calculations for, determined from single uranium and uranium—plutonium fuel element neutron flux perturbation, 22:1874
reactivity calculations for, development of analytical expressions for, 23:37480
reactivity calculations for, ETA BETA program for one-dimensional two-group long-term, 24:5561 (CISE-R-148)
reactivity calculations for, materials safeguards method using ISOCHECK, 21:46865 (WASH-1076, pp 73-81)
reactivity calculations for, using EXTERMINATOR-2 code, 21:25631 (ORNL-4078)
reactivity calibration by digital analysis of neutron flux transients in, (E/T), 22:35681
reactivity coefficients for, use of synthesis techniques for calculation of three-dimensional, 22:16328
reactivity coefficients for, use of transport perturbation theory in GAPER code for determination of, 22:44817 (GA-8667)
reactivity compensation of, use of laminar burnable poisons for, 21:34125
reactivity control by mass transport of hydrogen between zirconium hydride beds in, effectiveness and load-following capabilities of, 23:15624
reactivity control of spectral shift, use of two-phase cocurrent flow in, 22:12530
reactivity control of, by diffusing gas through liquid moderator, 21:14040(P)
reactivity control of, operation of hydrogen system for, 21:38580
reactivity distribution in one-dimensional cylindrical, REPO code for optimal, 25:44192 (CEA-N-1367)
reactivity distribution in, description of Garelis-Russell, Gozani, and pulsed neutron methods for analysis of, (T), 22:35703
reactivity doubling time in, description of multiple digital circuits for measuring, 22:25199(P)
reactivity during fuel density oscillations in, effects of delayed neutrons on, (T), 25:10305 (IAE-1955)
reactivity effect in, higher order perturbation method for calculation of, (T), 23:40452
reactivity effective multiplication factor for, analog computer model for rod-drop method calculation of less-than-unity, 23:13574(T) (ORNL-tr-2084)
reactivity excursion effects in oxide-fueled, model for, 21:19465 (IDO-17224)
reactivity feedback in, Volterra functional series for linear, 25:12843 (INR-1206)
reactivity feedbacks in, nonlinear oscillations and stability analysis for two, 24:16296
reactivity for various types of cores for, comparison of calculated to measured values of, 21:25722
reactivity for, errors in kinetic phenomena analysis of static, (T), 23:24007
reactivity in pulsed, calculational methods for analysis of, (T), 24:52991 (LA-4505)
reactivity in, description of multi-region movable medium for pulsed, 22:10100(P)
reactivity in, method for automatic measurement of, 23:49655 (IAE-1689)
reactivity input in, quasi-periodic vector solutions for integration of point-reactor kinetic equations for periodic, (T), 23:23996 (BARC-371)
reactivity input noise source for at-power, calculation of, (T), 23:45135
reactivity insertions in, use of singular perturbation theory for determining excursion parameters from ramp, 22:42380
reactivity insertions near and above prompt critical in, asymptotic solution to kinetics equations which reduces computing time for, 24:7143
reactivity integral theorem for critical, 22:20933 (FEI-77)
reactivity measurement by use of inverse kinetics computer program, 21:35746
reactivity measurement in subcritical, pulsed neutron methods for, (T), 25:10309
reactivity measurement in, sigma reduction method for, 22:25026
reactivity measurement of, automatic adjustment of simulated source of analog meter for, 25:18855(P)
reactivity measurements for plutonium fueled, (E/T), 25:18170 (BNWL-1481)
reactivity measurements for, continuous run method for, (E/T), 25:28799 (CEA-N-1385)
reactivity measurements from core or reflector in, 21:2885
reactivity measurements in subcritical, application of space-energy techniques for determining, 23:2117
reactivity measurements of, use of pulse-type detectors for subcritical, 21:34523 (ORNL-4091, pp 136-82)
reactivity meter for, design based on reactor noise using two-detector cross correlation, 23:14108
reactivity meter for, detailed description of continuous on-line, 22:53486
reactivity noise analysis of, testing of on-line digital auto- and cross-correlation for, 23:2149
reactivity noise in, theory of, 24:24812 (JAERI-1187)
reactivity nonlinear oscillations and stability in, solution of autonomous nonlinear differential equations for dual feedback, (T), 23:45127 (TID-25131)
reactivity of multi-group multi-region, FIRE-2 code for, 21:23616 (PEL-131)
reactivity of pulsed, computer program for calculation of, 25:26072 (UJV-2381.RF.)
reactivity of shutdown, direct measurement of asymptotic eigenvalue, 21:38555
reactivity of shutdown, measuring meter for, 21:10181(P)
reactivity of spherical-cavity, solution of prompt neutron kinetics equations to determine, 21:42755
reactivity of subcritical multiregion, inhour equation for interpretation of, 24:11302
reactivity of subcritical, double over-compensation method for determination of reserve, (E/T), 25:10321
reactivity of subcritical, measurement using pulsed-neutron-source technique, 21:40687
reactivity of thermionic, computer analysis of fast, (T), 21:7920
reactivity of three-dimensional, calculation of, (E/T), 21:7911
reactivity of, analysis of integral of, (T), 24:43847
reactivity of, calculation by multigroup perturbation theory, 21:19361 (KAPL-P-3186)
reactivity of, computer program for two-dimensional four-group calculation with partial neutron buckling for, 23:6036 (KURRI-TR-33)
reactivity of, description of fuel element surface-to-mass ratio control for changing, 22:42535(P)
reactivity of, effects of control rod vibrations on, (T), 25:28835
reactivity of, effects of core configuration on effective multiplication coefficient analysis of, (T), 22:35690
reactivity of, effects of digital Kalman filter on neutron flux measurements for calculations of, (E/T), 24:24907
reactivity of, effects of gaseous fuel density oscillations on, (T), 25:23394 (IAE-1964)
reactivity of, equations for, 21:7932
reactivity of, equations for perturbation condition, 21:7986
reactivity of, evaluation of rod-drop measurements for, (E/T), 24:38624
reactivity of, GAPOTKIN computer program for calculation of, 22:39770 (GA-8204)
reactivity of, method for optimum control of xenon oscillation effects on, (T), 24:4143
reactivity of, neutron cross sections and resonance parameters for calculation of, 21:7633 (LA-3560)
reactivity of, noise technique for measurement of, 25:6174
reactivity of, personnel training in, using computers, 21:8089
reactivity of, ramp input technique for measurement of temperature coefficients of, (E/T), 23:49669
reactivity of, statistical weight factor for calculation of xenon-135 effects on, (T), 24:52992(T) (LIB/Trans-303)
reactivity of, use of multilevel formalism for calculation of Doppler effects on, (T), 24:11295
reactivity oscillations in pulsed neutron coupled-core, analysis of, (E/T), 22:25162
reactivity oscillations in, approximation methods for calculation of nonlinear, 22:25154
reactivity oscillations in, model analysis of xenon induced, (T), 24:52996
reactivity period measurements for low power, technique for large neutron source asymptotic, (T), 22:39934
reactivity period meter design for, 21:4422(P)
reactivity period of, design of delayed anticoincidence system for monitoring, 21:17922
reactivity period of, measurement by Rossi-α method, 21:4382 (TID-23381)
reactivity period of, use of neutron counter with logarithmic output for measuring, 21:7904
reactivity perturbations in, Monte Carlo analysis of, 21:14026
reactivity perturbations in, space and time dependent neutron flux distribution during, (T), 24:20634
reactivity reserve in, statistical model for, 25:18235
reactivity temperature coefficients in nonlinear space-dependent systems, (T), 24:33537
reactivity temperature coefficients in uranium fueled zirconium hydride—water moderated, prompt, (T), 24:41064
reactivity transfer function for, noise analysis of, (T), 23:2119
reactivity transfer function measurements using ionization chambers, 21:8590
reactivity transients in large, analysis of, 21:14036
reactivity transients in small cores, PARET code for analysis of nondestructive, 23:17232 (IDO-17282)
reactivity transmission functions for, two-group diffusion approximation of, (T), 22:35689
reactivity variations in, analysis of gross power tilt allowance on, (T), 22:30366
reactivity variations in, computer codes for instruction on, 21:8090
reactivity variations in, perturbation theory calculations of, 25:23400 (UJV-2398-RF)
reactivity variations in, perturbation theory expressions for small, 25:31655
reactivity worth determinations in, by method of statistical weights, (E/T), 22:27504
reactivity worth measurements in, system for, 24:46126(P)
reactivity worth of materials in; integral relation for statistical weights of, 22:35719
reflector dimensions in flattened-flux slab, effects of fuel configuration and distribution on, (T), 21:21775 (UJV-1660)
reflector for, configuration of liquid containing variable geometry segmented, 23:47351(P)
reflector for, description of liquid-solid combination, 22:20962(P)
reflector savings of completely reflected cylindrical, SAVE code for, 25:37128 (UARAEE-96)
reflectors for, analysis of Wigner effect for credible operational failure in graphite, 22:3890 (CONF-670640-1)
reflectors for, development of organic compounds for, 21:40712(P)
regulation in Japan, law for, 25:23235
regulatory actions relating to U. S., review of, 21:2928
regulatory activity of AEC concerning, recent developments in, 21:25691
regulatory programs for, predictions of future, 24:434
reliability analysis of, ELRAFT computer program for fault tree, 25:6090
reliability of, effects of redundant systems on, 25:41619 (EUR-4517, pp 45-55)
reliability of, time—step method for Monte Carlo calculations for, 25:41490
remote handling equipment and procedures for, development of, 24:46125
research at Argonne Reactor Physics Division from July 1, 1968 to June 30, 1969, 24:47805(R) (ANL-7610)
research at Brookhaven National Laboratory Dept. of Applied Science during 1969, 24:45994(R) (BNL-50205)
research at Center for Nuclear Energy Studies in Belgium, 23:2068(R) (NP-17579)
research at Inst. of Nuclear Research, Warsaw, 1968, 23:51857(R) (INR-1100)
research at Inst. of Nuclear Research, Warsaw, 1969, 25:2497(R) (INR-1180)
research at Israel AEC, Jan.—Dec. 1967, 22:48806(R) (IA-1168)
research at Juelich Nuclear Research Center, 1967, 23:40512(R) (NP-17718)
research at Juelich Nuclear Research Center, 1969, 25:15964(R) (NP-18602)
research at Juelich, 1968, 24:27470(R) (NP-18083)
research at Rensselaer Polytechnic Inst., Jan. 1, 1971—March 31, 1971, 25:48036(R) (RPI-328-218)
research at Tunisian CEA, 21:26066(R) (NP-16474)
research by Danish Atomic Energy Commission, 1967-1968, 23:13604(R) (NP-17754)
research in, 22:14416
research in, centers for, 21:29850
research in, use of on-line computers for, 21:16251
research on components for, at Risoe, Denmark, 24:17195
research on, review of AEC, 23:17316
research on, review of AEC, 22:21017
research program at Ames Laboratory, July 1, 1967 to June 30, 1968, 23:2155(R) (IS-1900)
research programs at ANL on, review of, 23:18182 (BNL-50153)
research progress on, AEC, 25:26205
research projects using, IAEA sponsored, 24:39470 (STI/DOC-10/105)
response characteristics of, matrix calculations for, 21:40605
response to oscillating neutron source, 21:30091(R) (ANL-7210)
responses of, computer program for analysis of frequency, 21:21623 (AEEW-R-492)
safeguards for accountability of nuclear materials in, analysis of optimum economic, (T), 24:26790 (KFK-909)
safety aspects of, probability analysis for, 24:50056
safety aspects of, reliability engineering methods for, 25:60125
safety circuitry for, block diagrams and schematics for, 23:21422
safety data of, operation of CHORD-S data processing system for, 23:52304 (CTC-INF-32(Rev.1))
safety literature for, bibliography on current, 21:30159 (ORNL-NSIC-34)
safety of, compilation of 1966 incidents involving, 22:22751
safety of, effects of tube deformations due to small in-reactor explosions on, (T), 24:2338 (ANL-7562)
safety of, methods for evaluating radiological, 24:31544
safety regulation of, administrative activities in, 25:12806
safety switching system for, description of multiple-signal, 23:15747(P)
safety system for pulsed, description of self-screwing rotating disk, 22:14287(P)
safety system for rotating disc pulsed, description of shear pin-retained screw-drive, 22:48761(P)
safety system for, description of in-core liquid poison injection, 25:39357(P)
safety system for, description of magnetic amplifier tripping circuit for, 22:12072(P)
safety system reliability for, effects of human error and static component failure on operation of, (T), 23:15656 (HN-194)
safety systems for liquid-cooled and moderated, description of, 22:18627(P)
safety systems for, circuit algebra and logic for redundance in, 24:9130 (CEA-CONF-1368)
safety systems for, fault tree analysis computer program for evaluation of, 23:31139 (DUN-5508)
safety systems for, maintenance manual for electronic equipment for testing response of components of, 21:28305 (ORNL-TM-1638)
safety systems for, maintenance manual for gating circuits used in, 22:2454 (ORNL-TM-1638(Pt.12))
safety systems for, reliability of, 21:46904
safety-systems for, design specifications for, 21:40625
safing system for, design of tamper-indicating, 22:37910 (RL-REA-2228)
samarium-149 determination in, by promethium-150 measurements, (E), 21:14100
sample irradiation in, design of holding device for, 23:9626(P)
sealing and sliding surfaces in, plating using welded facings, 21:3474
seals for dividing membrane of split-flow type, description of peripheral resilient, 24:38485(P)
seals for, design of fluid-tight, 21:23783(P)
seismic response of internal components of, effects of structure—foundation interaction on, (T), 25:18160
seismic study for siting of, 21:40571(R) (ORNL-TM-1913)
servicing machines for, design of disconnects for, 21:39089(P)
servosystems for, noise reduction in closed loop, (T), 25:6188 (AE-404)
shield for, design of, 21:30232
shielding blocks in, temperature calculations for, 21:25635 (UJV-1663)
shielding calculations for small, methods for, 22:20965
shielding calculations for, (E/T), 25:9948
shielding calculations for, approximation of transport equation by finite difference equations in, 23:13455 (AERE-R-5773(Vol.1), pp 153-60)

shielding calculations for, comparison of removal-diffusion programs for neutron, 23:13452 (AERE-R-5773(Vol.1), pp 76-85)
shielding calculations for, cross-section requirements for, 24:6577
shielding calculations for, description of Nomad 3 analog computer for Monte Carlo, 23:13471 (AERE-R-5773(Vol.3), pp 904-34)
shielding calculations for, development of methods for, 21:15214(T) (ORNL-tr-1381)
shielding calculations for, development of multigroup spherical harmonics code for, 23:12943 (AERE-R-5773(Vol.1), pp 261-97)
shielding calculations for, ENDF/B data files for, 22:13904 (LA-3801)
shielding calculations for, McBEND program using removal-diffusion and Monte Carlo methods for, 23:13451 (AERE-R-5773(Vol.1), pp 41-75)
shielding calculations for, method for determination of γ radiation transmission and reflection matrices in, 23:19483
shielding calculations for, S2 version of McNID computer program for Monte Carlo analysis of neutron, 23:13532 (AERE-R-5773(Vol.2), pp 571-96)
shielding calculations for, SABINE computer code for, 23:26108 (EUR-3940-1, pp 3-25)
shielding calculations for, SABINE program for one-dimensional, (E/T), 23:13450 (AERE-R-5773(Vol.1), pp 5-40)
shielding calculations for, solution of neutron transport equation in one dimension for, 23:13456 (AERE-R-5773(Vol.1), pp 163-71)
shielding calculations for, WSRPG modular programming system for, 25:44107 (EACRP-A-135, pp 15-20)
shielding configuration with faces formed by hollow concrete walls filled with low-melting-point metals, reduction of temperature gradient by, 23:4478(P)
shielding design and fabrication for, 22:27450
shielding design for planned, using test data from existing reactors, 21:17477(T) (ORNL-tr-1509)
shielding design for, book on, 22:33122
shielding design for, configuration optimization methods, 21:23748(T) (ORNL-tr-1526)
shielding design for, development of calculation techniques for, 23:13457 (AERE-R-5773(Vol.2))
shielding design for, development of calculation techniques for, 23:13449 (AERE-R-5773(Vol.1))
shielding design for, development of calculation techniques for, 23:13472 (AERE-R-5773(Vol.4))
shielding design for, development of calculation techniques for, 23:13462 (AERE-R-5773(Vol.3))
shielding design for, survey of calculation methods for, 23:13477 (AERE-R-5773(Vol.5))
shielding for core of, design of, 21:12211(P)
shielding for high-temperature, properties of chromite and fireclay concretes as thermal, (T), 21:10134
shielding for pressure vessel contained, construction procedures for side, 24:50257(P)
shielding for pressure-tube type, design of zone, 24:47975(P)
shielding for thermal neutrons in, effects of time on calculation of efficiency of cadmium, (T), 23:17286
shielding for, calculation of optimum physical characteristics of, 21:21031
shielding for, calculation of optimum structure for, (T), 21:21038
shielding for, calculational and experimental techniques in France for design of, 25:46250
shielding for, calculational and experimental techniques for design of, 25:46251
shielding for, comparison of multigroup diffusion calculations to transport solutions on, 23:13454 (AERE-R-5773(Vol.1), pp 122-52)
shielding for, description of removable access well, 25:57199(P)
shielding for, design of γ and neutron, 23:33045(T) (AEC-tr-6879)
shielding for, design of standpipes for access through, 24:47981(P)
shielding for, design parameters of liquid metal filled sandwich arranged hollow wall, 24:16327(P)
shielding for, design parameters of neptunium containing liquid, 24:50098(P)
shielding for, design requirements for optimum economic, 23:37560 (NP-17851, pp 127-62)
shielding for, effects of configuration on performance of neutron, (T), 24:50096 (CEA-CONF-1566)
shielding for, effects of gaps on performance of concrete, (T), 23:17292
shielding for, effects of slowing down neutron buildup on calculations for, 23:23885
shielding for, effects of thermal stresses on concrete, (T), 23:47352
shielding for, gamma and neutron transport and thermoelastic equations for formulating, 21:12256 (INR-685/IX/RP)
shielding for, gamma and neutron transport and thermoelastic equations for formulating, 21:12256 (INR-685/IX/RP)
shielding for, measurement of neutron and gamma intensity distributions in, 22:14162
shielding for, methods for calculation of γ and neutron transport in ducts and slots of, (E/T), 24:1982
shielding for, monitoring system for dosimetry at surfaces of, 25:57779
shielding for, Monte Carlo calculations for neutron, 25:23328 (CEA-CONF-1730)
shielding for, Monte Carlo computer programs for neutron calculations for voids in, 23:13470 (AERE-R-5773(Vol.3), pp 834-57)
shielding for, neutron and γ-ray fields and heat balance for, (T), 25:44108
shielding for, neutron penetration through homogeneous and multilayer, (E/T), 23:13475 (AERE-R-5773(Vol.4), pp 1152-72)
shielding for, optimization of plane and spherical metal—water, (T), 23:47353
shielding for, optimum selection and arrangement of materials in design of, 22:14611
shielding for, optimum water content in concrete for, 21:2903
shielding for, physics aspects of, 24:16177(T) (JPRS-49745)
shielding for, problems in design and construction of, 23:4200
shielding for, radiation effects on thermal, 25:48362
shielding for, RAGA code for γ-ray transport in multiregion slab, 25:57026 (RCN-146)
shielding for, standards for testing biological, 25:31677
shielding for, summary of conference on, 22:53467
shielding for, SUNCYL and SUNSPHER computer programs for neutron fluxes in multilayer, 23:26033 (UJV-2125-R)
shielding for, SUNCYL and SUNSPHER computer programs for neutron fluxes in multilayer, 24:31055(T) (ORNL-tr-2304)
shielding for, technology of design of thermal, 25:36999
shielding for, thermal neutron streaming through water filled bent cylinder shaped ducts, (E), 25:1874 (EUR-4498)
shielding for, transmission matrix methods for optimum weight of, 25:3859
shielding for, UNAMIT code for optimization of 4π multilayer spherical, 25:1875 (N-70-32598)
shielding for, use of diffusion theory for transport calculations on, 23:13453 (AERE-R-5773(Vol.1), pp 89-121)
shielding for, use of variational methods calculations for optimization of, 23:13474 (AERE-R-5773(Vol.4), pp 1098-1123)
shielding for, various materials, applications, and configurations for, 21:42784
shielding material for, evaluation of serpentine sand as biological, 21:10135
shielding material for, properties of calcium sulfate ($CaSO_4$)—boric acid (H_3BO_3) thermal neutron, 24:31134
shielding materials for, economic efficiency of, 24:34984
shielding materials testing by monodirectional beam hole measurements, gamma and neutron, 21:42737
shielding of, analysis of safety requirements for, 23:52492
shielding of, bibliography on, 25:48245 (ORNL-RSIC-5(Vol.3))
shielding of, bibliography on, 23:20975 (ORNL-RSIC-5(Vol.2))
shielding of, bibliography on, 22:29533 (AED-C-33-04)
shielding of, COSANI code for calculations on, 25:8063 (CEA-N-1384)
shielding of, development and testing concrete for, 21:17543
shielding of, effect of temperature coupling on radiation attenuation analysis of, (T), 22:30367
shielding of, efficiency of boron-containing concretes for, 22:25150
shielding of, errors in computer programs for iron-water, (E/T), 23:33122
shielding of, estimation of spatial distributions of neutron capture in, (T), 25:1967 (N-70-24799)
shielding of, evaluation of computer codes for analysis of, 25:12782 (CEA-CONF-1683)
shielding of, multigroup calculation method for neutron, 24:36077
shielding of, neutron cross section measurements for calculation of, 24:6579
shielding of, neutron monitoring outside, contribution of intermediate energy neutrons to dose, 21:6540
shielding of, performance of non-hydrogenous neutron, 21:15789
shielding of, reduction of capture γ radiation by, (T), 23:47355
shielding of, review of neutron spectroscopy for studying, 21:32363 (ANS-SD-2, Paper 1)
shielding of, use of lithium fluoride thermoluminescent dosimeters for evaluation of neutron, 21:19979
shielding optimization for, analytical approximation of layer thickness for, 23:13478 (AERE-R-5773(Vol.5), pp 1269-87)
shielding optimization for, problems in, 23:46527
shielding properties of metal—water unit cells in, (T), 23:47354
shielding requirements for, computer program for calculation of secondary γ radiation, (E/T), 25:31671 (ORNL-TM-3367)
shielding, bibliography on, 21:7301 (ORNL-RSIC-5(Rev.1))
shielding, survey of problems in physics of, 21:33509(T) (NASA-TT-F-411)
shields for, design of lead, 21:8003(P)
shields with inner cooling pipes for, temperature distributions in thermal, (T), 23:52332 (INR-959)
shutdown amplifier design for, 21:41298
shutdown control under xenon poisoning of, direct and nonlinear programming analysis of optimal, (T), 22:30355
shutdown criteria for short time operation of, effects of xenon on optimum, (T), 22:3862
shutdown criteria for, procedures for determining trip set-points for, 22:44867
shutdown in, calculation of limiting xenon poisoning by Pontryagin's theory, 21:1193
shutdown margin determination using neutron noise, equations for, (T), 21:8137
shutdown margin for, use of asymmetric source method for measuring, (T), 22:32811
shutdown margin measurements in, effects of high gamma fluxes on, 21:34523 (ORNL-4091, pp 136-82)
shutdown of high flux, optimum samarium-149 burnup during, (T), 24:47941
shutdown of KS-type, analysis of optimum transition processes during, (T), 23:15623
shutdown of stable, STABFALL code for decrease in thermal neutron flux following, 24:18762 (FMRB-5/69)
shutdown of, description of three stage emergency, 23:43214(P)
shutdown of, device for monitoring, 21:5713(P)
shutdown of, partial moderator dump system for, 24:2074(P)
shutdown of, Pontryagin maximum principle for analysis of optimum samarium 149, (T), 23:17266 (ITEF-600)
shutdown of, use of Pontryagin's theory for determining xenon energy-optimal, 22:14308
shutdown optimization of controls of, discussion of, 21:23664
shutdown system for liquid-moderated, description of floating spherical vacuum-supported neutron absorbers for, 22:30394(P)
shutdown system for, description of electromagnet actuated rod type, 24:9165(P)
shutdown system for, description of gas-pressure-injected valve-regulated constant-flow liquid poison, 23:11361(P)
shutdown system for, design parameters of horizontal gas propelled rod, 24:47874(P)
shutdown, calculation of fission product decay heat during, 24:16198
simulation of, applications of hybrid computers for, 23:40440 (CONF-690401-, pp 391-414)
site abandonment, legal aspects of, 21:43441
site evaluation using Savannah River Plant meteorological data, 21:41018 (DP-MS-67-69)
site selection for, effect of earthquake frequency on, 21:4640 (AECL-2597)
site selection for, effect of ground surface faulting on, 22:8207 (TID-24124)
site selection for, effects of earthquake characteristics on, 22:6436 (ORNL-4168, pp 1-60)
site selection for, effects of meteorological factors on, 21:45251
site selection for, effects of meteorology on, 23:13877
site surveillance by public health agencies, manual for, 21:20176 (NP-16616)
sites for, computer program for accident radiation dose calculations for, 24:38585
siting distance requirements for, computer program for calculation of, 21:16337 (KAPL-M-6592)
siting evaluation in relation to emergency situations and radiation hazards to human population, 24:7880
siting in Netherlands of, analysis of economic and safety parameters for, 22:35683
siting of Canadian, relation of design and containment to, 21:31895 (AECL-2863)
siting of, analysis of British weight-factor procedure in, 22:22723
siting of, analysis of meteorological factors involved in, 22:5958
siting of, analysis of potential hazards of, 24:50170
siting of, analysis of USAEC criteria for, 22:22723
siting of, cloud gamma calculations for, 25:54797
siting of, computer program for estimating dose probability distribution from meteorology data for, 23:13869 (DP-MS-68-7)
siting of, conference on health physics aspects of, Vol. I, Idaho Falls, Idaho, Nov. 3 to 6, 1970, 25:57103
siting of, conference on health physics aspects of, Vol. III, Idaho Falls, Idaho, Nov. 3 to 6, 1970, 25:55193
siting of, conference on health physics aspects of, Vol. II, Idaho Falls, Idaho, Nov. 3 to 6, 1970, 25:55157
siting of, effects of containment on, 23:37598
siting of, evaluation of criteria for, 22:30195
siting of, evaluation of steadiness of wind during stable conditions for, 25:54794
siting of, geologic environmental map of Greater Los Angeles Area, Calif, for use in safe, 24:29406 (TID-25363)
siting of, meteorological considerations in, 25:54793
siting of, method for probabilistic assessment of risk associated with, 23:37591
siting of, notes for lectures on, 23:2058 (NP-17649(Vol.2))
siting of, probability analysis for safety aspects of, 24:50171
siting of, public health factors affecting, 23:43064
siting of, safety aspects of, 24:50056
siting of, thermal pollution factors in, 23:47640
siting requirements for, effects of wind variability on, 21:14326 (BNWL-SA-1058)
spatial characteristics of, use of statistical methods for analysing, 23:11265 (RCN-98, pp 71-7)
stability analyses for large-system, computerized modified Mikhailov method for, 24:7329
stability analyses for, use of variable gradient method for generating Liapunov functions for, 24:7330
stability analysis of coupled core, by second method of Liapunov, 21:14035
stability analysis of, analog computer for transport delay effects in, 21:38538
stability analysis of, GASA code for, 21:27829 (GAMD-7242)
stability analysis of, methods for nonlinear, (T), 24:50212 (BARC-493)
stability analysis of, Mikhailov criteria with time delay for, (T), 25:6164
stability characteristics of, use of pseudorandom signals for numerical evaluation of spatially dependent, 23:37741
stability characteristics of, use of space-dependent transfer function for calculating spatial, 24:7339
stability criteria for large, analysis of Liapunov's method for determining, 23:49572 (ANL-7410, pp 229-337)
stability criteria for space-dependent, analytical models for, 25:3929
stability criteria for space-dependent, formulation of algebraic and integral feedback effects on, 22:32889
stability criteria for, Liapunov solution of autonomous functional-differential equations for, (T), 23:6041
stability criteria for, use of comparison functions for solution of nonlinear multigroup diffusion equations with temperature feedback for determining, 23:33105

stability criterion for spatially dependent nonlinear, formulation of asymptotic, 22:33160
stability determination by adjoint flux, 21:35781
stability domain of nonlinear, use of weighting transformation technique for optimizing, 23:37739
stability domains for space-dependent, comparison of Lyapunov, semigroup, and comparison function methods for calculating, 23:37694
stability domains for, use of comparison functions formulism for solving a coupled set of space dependent nonlinear differential equations describing, 23:37735
stability domains in, nonlinear point kinetics model analysis of, 25:51240
stability for equilibrium state, one-group diffusion approximation analysis of, (T), 22:30359
stability for in-core thermionic space application, analysis of fast neutron spectrum, (T), 23:4397
stability of closed-circuit, effect of xenon oscillations on, 21:17488
stability of coupled core reflected, 21:40602
stability of coupled, effects of linear power feedback on asymptotic, 21:23631
stability of coupled-core, effects of temperature and xenon feedback on, 21:40610
stability of coupled-core, effects of xenon-induced spatial oscillations on, (T), 22:42399
stability of coupled-core, kinetics equations for, 21:34132
stability of coupled-core, time-varying parameter method of analyzing, 24:7332
stability of multiregional cylindrical and rectangular core, description of XKINEQ computer program for calculating effects of Xenon-135 on, 22:25131 (LA-DC-8100)
stability of nonlinear, analysis using Lyapunov's method, (T), 21:8075
stability of nonlinear, effects of delayed neutrons on, 23:37738
stability of point model, Popov criterion neglecting delayed neutrons for, (T), 24:4135
stability of point model, Popov criterion neglecting delayed neutrons for, (T), 24:4130
stability of point, calculation with arbitrary feedback of asymptotic, (T), 24:20627
stability of spatially-dependent, analysis of optimum, (T), 22:25171
stability of two-temperature, model of, 21:8076
stability of, analysis by means of asymptotic expansion of equations for, 21:25672
stability of, analysis of asymptotic, (T), 24:16271 (BNL-50117, pp 140-63)
stability of, calculation methods for, (T), 22:44919 (EIR-119)
stability of, comparison function method for solution to nonlinear space-dependent kinetics determining, 22:14319
stability of, comparison of concepts for stochastic, (T), 24:33543
stability of, derivation of Lyapunov functions for nonlinear, (T), 24:11296
stability of, effects of delayed neutrons on, 21:31948 (TID-23844)
stability of, effects of delayed neutrons on, (T), 24:4141
stability of, effects of flux and temperature variations on, 21:38543
stability of, effects of moderator temperature on core, 21:17472 (WCAP-2987)
stability of, effects of positive feedback on, 22:5988
stability of, effects of positive moderator coefficient of reactivity on asymptotic, 23:4436
stability of, effects of prompt positive coolant void reactivity coefficient on, (T), 25:34433
stability of, effects of xenon oscillations on, 22:5984
stability of, kinetics descriptions for analysis of, 21:13997
stability of, Liapounov method for calculation of, (T), 25:60239
stability of, matrix derivation of, 21:40604
stability of, parameter fitting of model calculations in frequency domain with weighting function for, (E/T), 25:31650 (AEEW-M-1012)
stability of, review of mathematical models for nonlinear, (T), 23:28620
stability of, simplified method for calculating, (T), 25:10316
stability of, solution of kinetic equations for, (T), 24:11298
stability of, spatial shape dependence of, 21:38537
stability of, use of Liapunov's second method for determining, 22:47041 (EIR-125)
stability of, use of semi-group method for analysis of space-dependent, 24:7333
stability of, use of stochastic processes with feedback for analysis of, 23:37695
stability of, XITRAN-2 computer program for xenon spatial oscillation effects on, 25:18229 (ORNL-TM-2580)
stability with discrete stochastic control system, (T), 23:40450
standards in U.S. for, listing of, 25:48288 (ORNL-NSIC-85)
standards program at NSIC, description of, 22:1772(R) (ORNL-TM-1986)
standpipe access in, description of metal sealing plug for, 24:11329(P)
start-up using computer signal for uniform withdrawal of control rods, 22:14339(P)
startup and shutdown processes in, electronic simulation of, 21:42769
startup of, computer evaluation of algorithms for optimal, 23:40342
startup of, design of time-to-power instrument for controlling, 21:32520
startup of, method and apparatus for controlling, 22:20870(P)
startup of, RKC program analysis of transients during, 21:7882 (KAPL-M-SR-1(Rev.A))
startup of, transistorized pulse channel for neutron flux meaurements during, 25:37146
startup systems for, stability analysis of relay circuits for automatic, (T), 24:50235
steam generator for, control system for, 21:12565(P)
steel pipes in, methods for welding, 21:45876
steels for, radioinduced embrittlement of, 21:6838 (NRL-6420)
steels for, research on hydrogen embrittlement of, 23:22591 (BNWL-790, pp 7.1-7)
stochastic fluctuations in two-node coupled-core, fundamental properties of coherence function for, 22:42561
stress analysis for, study and application of, 24:7069
stress measurements in, development of pneumatic gaging system for, 23:727
structural components for, conference on shock and vibration analysis of, 25:54051
structural loading under accident conditions, model techniques in simulation of, 23:28509 (EUR-4101, pp 143-51)
structural materials development for, review of, 21:1899
structural materials development for, review of, 23:9264
structural materials erosion in, by flowing suspension of graphite powder in carbon dioxide gas, 23:4456 (AEEW-R-510)
structural materials for, brazing and welding of, 21:1879
structural materials for, corrosion effects of steam—water mixtures on Zircaloy-2, 21:35571 (EURAEC-1862)
structural materials for, cyclotron irradiation of, 22:6015
structural materials for, development of beryllium steel and zirconium steel for, 21:42842(P)
structural materials for, evaluation of neutron capture cross sections for, 25:14971
structural materials for, fabrication techniques for, 21:1878
structural materials for, fracture under static loading of, 22:4791
structural materials for, mechanical properties of, 21:1900
structural materials for, meeting on radiation effects on, 22:16109 (BNWL-609)
structural materials for, metallurgical properties of, 21:1901
structural materials for, prepartion of vanadium-base composite, 25:32667(P)
structural materials for, radiation damage to, 21:31903(R) (BNWL-CC-500)
structural materials for, radiation effects on, 21:1922
structural materials for, research on irradiation effects on, 23:22582(R) (BNWL-790)
structural materials for, research on irradiation effects on, 23:24942(R) (BNWL-870)
structural materials for, review of fabrication techniques for, 23:9265
structural materials for, role of accelerators and reactors in testing of, 24:29471
structural materials for, self-welding under sodium at 580 to 700°C, 24:39631 (NP-18289)
structural plate bending in, finite element method for analysis of, 25:18575
structures for, conference on methods for stress analysis of, 25:54056
structures for, conference on thermal and mechanical stress analysis of, 25:54055
structures for, development of matrix properties and load-deflection characteristics of linear-elastic, 23:9231 (WAPD-TM-749)
structures for, dynamic behavior of circular plates and beams with damping, 21:8119 (ANL-7239)
structures for, effects of earthquake ground motions on, (T), 25:48248 (CEA-CONF-1772)
structures for, effects of earthquakes on soil interaction with foundation, 25:10245 (ORO-3822-5)
subcriticality measurements in, optimal filtering method for, (E/T), 25:60234
subcriticality of, optimal filtering method for measurement of, (E/T), 24:47967 (CONF-680980-, pp 123-40)
support structure for, design, 21:30227(P)
support structures for, description of multi-cylinder concentric blankets for seismic protection, 22:14343(P)
systems analysis of, hybrid computers for, 21:30091(R) (ANL-7210)
systems variations in, PERC code for calculating effects on neutron multiplication factor of, 22:7908 (ANL-7304)
technology of, progress review on, 22:22883
technology of, technical progress review on, 22:7983
tellurium-132 release by, hazards to population from accidental, 21:36581 (RT/PROT-(66)27)
temperature and xenon control of, asymptotic stability of, 21:31957
temperature calculation in, using analog simulation, 21:34143
temperature control system for, design of, 23:26614(P)
temperature control to 2300°C in, characteristics of thermocouples for, 21:43298 (CEA-R-3182)
temperature distribution in, use of coarse control rods to control axial, 24:36011
temperature limits for, nonlinear space—time calculations for optimum, (T), 25:41614
temperature measurement in, design and performance of microwave cavities for, 25:15967 (WHAN-SA-24)
temperature measurements above 1000°C in, thermocouples for, 21:19796 (CONF-660511-, pp 7.2.1-5)
temperature measurements in core of, thermocouple errors in, 24:5944 (CEA-R-3916)
temperature measurements in, chemical indicators for, 23:35562
temperature measurements in, microwave technique for in-core, 25:10326 (RT/FI-(70)7)
temperature measurements in, techniques and equipment for, 23:24038
temperature measurements in, thermocouple circuit for, 23:726
temperature measurements in, use of liquid semiconductors for resistance, 22:28260
temperature measurements in, use of platinum resistance thermometers for, 25:41621
temperature measurements on, design and performance of high-speed scanning system for, 21:26267 (DUN-SA-32)
temperature monitoring in, design of microwave instruments for, 22:2446 (BNWL-399)
temperature transients in, use of Laplace transform method for determining space-time dependent, 22:12022 (EURFNR-415)
temperatures in, device for continuously measuring high, 23:7908(P)
temperatures in, use of microwave cavity resonators for determining, 22:4509
terminology on, classification according to International Standards Organization of, 21:46875
testing of nuclear, measurement of fission products dose to thyroid and whole-body of offsite population, 22:23519
testing of pressure-components for, description of Huber-Hencky method of stress, 22:39907
testing of, development of computer system for operation and performance, 25:46275 (DUN-SA-167(Rev.1))
theory for, non-Hermitian Hamiltonians in, 22:35403
theory of, bibliography on application of variational methods in, 21:27682 (IFA-FR-52)
theory of, bibliography on use of matrix calculus in, 21:31937 (IFA-FR-55)
theory of, calculations of P/sub L/ blackness theory for slab absorbers in, 22:6152
theory of, Cauchy's initial value problem description of slab flat flux reactor, 21:5633 (UJV-1585)
theory of, general introduction to, 22:44954 (NTO-T-0026)
theory of, neutron importance and variational formulation in, 21:27663 (AD-634843)
theory, stochastic problem solution in non-linear systems, 21:5561 (EUR-3074.e)
thermal energy from, method for storage of, 25:15830(P)
thermal insulation for, 22:10496(P)
thermal insulation for, conference in development of, 25:31546 (EUR-4531)
thermal insulation for, description of laminated metal, 25:10335(P)
thermal insulation for, performance of circulating gas screen, 25:31576 (EUR-4531, pp 1035-53)
thermal insulation of core channels in, 22:18612(P)
thermal shielding for, model testing of chromite concrete, 24:31056
thermal utilization factor for three-zone cylindrical lattice cell in, asymptotic diffusion theory calculations of, 25:37119 (UARAEE-64)
thermionic cells for use with, review, 21:3732
thermocouple cable removal from, by severing from tension on cable loops, 22:44928(P)
thermocouples for use in, design and irradiation testing of miniature-sheathed, 23:38381
thermocouples for, effects of gamma radiation on calibration of, 22:4561
thermodynamic cycles for, description and flow diagrams for, 23:40318 (NP-17868)
thermodynamic parameters for chemonuclear, effects of fuel element configuration on, 23:11342
thermodynamic reliability analysis methods for, 23:21551
thermodynamics for, (T), 24:33489
transfer function determination for, step-response method of zero-power, 23:19579
transfer function determinations for, time frequency transformations for obtaining space-dependent, 22:44929
transfer function for, use of spatial eigenfunction expansion method for calculating multigroup space-dependent, 23:52469
transfer function measurements in, correlation method for, 25:23397 (LFEN-NL-58-a)
transfer function measurements in, effect of higher space mode excitations on, (E/T), 22:22845
transfer function measurements in, use of pseudorandom neutron source excitation for, 21:27678(R) (GEAP-5276)
transfer function of, few-pole expansion method calculation of space-dependent, (E/T), 22:35700
transfer function with temperature feedback, prediction of spatially dependent source, (E/T), 25:44204
transfer functions for subcritical, at constant neutron flux, (E/T), 23:47319
transfer functions for, external pulsing of accelerators for measurement of, 25:45864
transfer functions for, method for calculation of coefficients of, (T), 25:60229
transfer functions for, use of inherent noise method for determination of, 21:38525
transfer functions for, use of Langevin technique for determining feedback, 22:42386 (BNWL-SA-2003)
transfer functions in coupled core reflected, 21:40602
transfer functions of, NOISE code for determination of, 25:57181 (BNWL-1609)
transfer functions with feedback for zero-power, method for calculation of space-dependent source, 23:19554
transfer functions with feedback for, derivation of space-time expression for, 22:12143 (WCAP-2873)
transient accident parameters for recycle plutonium fueled, 23:37568
transient analysis for, use of TER4 for, 21:40561 (KAPL-M-6713(Rev.A))
transient behavior of zirconium-hydride-uranium fuels in SNAPTRAN, 21:44938 (IDO-17204)
transient calculations for, NOAH code for solving one-dimensional one-energy group space-time diffusion equation in, 23:45124 (BNL-50157)

- transient calculations in, effects of fast group scaling factor on collapsed-group two-mode eigenvalues for, 22:32825
- transient heat transfer and steam formation in, review of, 21:30612 (IDO-17226)
- transient power distributions in, space-time analysis of, 22:25130 (KAPL-P-3425)
- transients in adiabatic, space-time behavior of, 22:5989
- transients in, calculations using feedback and non-feedback conditions for, 22:3938
- transients in, effects of coolant inlet temperature on, 22:18592
- transients in, effects of neutron leakage delay time distribution on fast, 23:21556
- transients in, effects of space and energy dependent neutrons on, (T), 25:48348
- transients in, formulation of multichannel space-time synthesis method for calculation of nonseparable, 22:30151 (KAPL-M-6742)
- transients in, hybrid simulation of, 24:38628
- transients in, iodine-131 determination following, 24:43969
- transients in, modal synthesis solution of xenon, 24:7335
- transients in, multichannel space-time synthesis model for calculation of nonseparable, 22:48799
- transients in, quasistatic treatment of space-dependent, 21:30091(R) (ANL-7210)
- transients in, variational multichannel space-time synthesis model for analysis of nonseparable, 22:32829
- transport equations for, BE 21 code for discrete ordinates solution to few-group slab geometry, 23:40446 (WAPD-TM-781)
- transport equations for, variational synthesis solution to Boltzmann, 23:28617
- transport equations with arbitrary adjoint source for, use of spherical harmonics expansions as trial functions for variational solution to, 23:23999 (WAPD-TM-771)
- transport theory equations for multiregion variational synthesis techniques for determining eigenvalues for, 24:18763 (KAPL-P-3869)
- tritium hazards to personnel of, review of, 24:31959 (HASL-229)
- tritium measurement on surfaces of, 21:6484 (AD-640810)
- tritium production in, effects of neutron reactions with nitrogen on, (E/T), 24:47885
- tritium release from, permissible limits for, 22:12453
- tubes for, properties of alloys for, 25:2678
- turbine design for, 21:39102(P)
- use as energy source for endothermic reactions, 22:8153
- use as energy source in space vehicles, 21:28172
- use as energy source in space vehicles, applicability limits of, 21:28173
- use as γ irradiation facility by absorption of thermal neutrons, 21:21795(P)
- use as heat source in Brayton power cycle for space applications, 21:4671 (NASA-SP-131, pp 95-145)
- use as heat sources with nuclear Stirling engines for electric power generation, 21:26111
- use as radiation source in plant mutation experiments, program for, 24:21325
- use as radiation sources, review of, 23:16853
- use for excitation of low-voltage arc lasers, 22:30907
- use for heat treatment of oxide feed materials to improve thermal conductivity, 21:21814(P)
- use for underwater power production, 21:26012
- use in medicine as neutron sources, 23:6505
- use in seawater desalting, (T), 21:43098(T) (AEC-tr-6893)
- use of dual-purpose, for water desalination, 21:4648
- use of low power, for calibration of neutron dosimeters, 22:4489
- use of nuclear, in medicine, 22:25923
- use of portable, for heat supply to retort petroleum from underground nuclear chimneys, 22:42937 (UCRL-50380)
- use of, for local irradiation of mouse tumors with thermal neutrons, 21:3434 (JUL-356-ME)
- use to produce plasma columns for gigantic ionospheric MHD generator, 23:5265(T) (JPRS-46941)
- uses in industrial radiation chemistry, 21:40922
- uses of NRL 1-MW, nonnuclear, 22:37211 (AD-660658)
- uses underwater, review on, 21:14022
- valve assembly for, design of fluid, 23:38156(P)
- valve for use in, design of gas-tight fluid flow control, 24:19131(P)
- vessels for, perforated plate fabrication methods for, 21:39099(P)
- vibration testing of, analysis of earthquake response by, (E/T), 23:40380
- viewing equipment for, design of remote-, 21:5733(P)
- waste gases from, design of equipment for monitoring ground-level, 22:18947 (BNL-12154)
- waste heat from, use for melting ice on St. Lawrence seaway, 22:37925 (AECL-3061)
- water and aqueous solution decomposition in, 21:5925
- water loops for, two-dimensional analysis of thermodynamic behavior of boiling liquids in, 21:19836 (CEA-R-3141)
- welding in, design of remote handling equipment for, 21:28145(P)
- xenon buildup in, use of soluble poisons for control of, 22:30176
- xenon instability phenomenon in, 24:33259
- xenon oscillations in large, calculation of optimum control rod strategy for, (T), 25:60236
- xenon oscillations in, analysis of natural modes in presence of temperature and control feedback, 21:38474 (WAPD-TM-695)
- xenon oscillations in, optimization of control procedures for, 24:7338
- xenon oscillations in, semianalytic method for space dependent nonlinear, 24:18760 (EIR-164)
- xenon spatial oscillations in, lambda-mode analysis of, 22:3942
- xenon spatial oscillations in, stability and frequency spectra of, (T), 24:13630 (ITEF-663)
- xenon spatial oscillations in, variational calculation of complex modes of, 21:38558
- xenon stability criterion for spatially dependent model, derivation of nonlinear, 23:15720
- xenon stability with feedback for, analysis of, 21:38561
- xenon transients in, GALAHAD computer program for optimum control of, 23:33038 (GA-9166)
- xenon transients in, modal synthesis solution of, 24:7289
- xenon transients in, optimal control of spatial, 22:5985
- xenon transition processes in, (T), 25:54263 (ITEF-817)
- xenon-135 content in cyclic operated, model analysis and computer programs for, (T), 24:18765 (SRRC-32/69)
- xenon-135 oscillations in, effects of core parameters on, (T), 22:50839 (DPST-68-372)
- xenon-135 poisoning in, use of analog techniques for simulation of, 24:9163
- xenon-power spatial transients in, application of dynamic programming to the optimal control of, (T), 22:33090 (KAPL-M-6725)
- zirconium requirements for Japanese, 23:12289

REACTORS, AGR-TYPE
- see also Windscale Advanced Gas-Cooled Reactor
- accidents in, analysis of coolant loss, blower failure, and air entry into cooling system, (E/T), 24:24869
- bibliography on, 23:9120 (JUL-Bibl.-14)
- blowers for, design principles of coolant, 24:1995
- boilers for, design parameters of pressure vessel mounted pod type, 24:28882
- boilers for, development of, 25:3900
- construction of, use of prestressed concrete for, 23:1025
- control of, memory and logic circuits for simulation of, 24:38399
- control of, use of digital computers for, 23:40308
- control system for, computer interface problems in, 23:31132
- control system for, design of computer, 24:46028
- control systems for, description of digital computer, 24:47692
- coolant for, thermodynamic diagnosis of carbon dioxide, 22:39737 (CEA-N-831)
- cooling channel thermal performance improvement in, optimization of axial rating shapes for, (T), 23:28461 (RD/B/N-1328)
- cooling system for, design of direct carbon dioxide, 22:39737 (CEA-N-831)
- cooling system for, economics of excess capacity in, 24:16185
- cooling system for, fabrication of, 25:34346
- cooling system of, design parameters for simulated loop, 23:33120 (ORNL-TM-2532)
- core for, design of removable graphite blocks containing fuel tubes for, 25:51036(P)
- core structure for, earthquake resistance of, (T), 24:24868
- core structure for, fabrication of, 25:34346
- design characteristics of, 22:39827
- design characteristics of, 25:60030
- design characteristics of, advantages for export, 22:3855
- design features of, 24:24698
- design features of, review of, 25:23233
- design with steam generators in wall of prestressed concrete pressure vessel, 25:20698
- development in U. K, 25:36863 (CONF-700653-1)
- development in U.K. of, 23:47211 (CNM-R-2(Vol.1), pp 58-69)
- development of, conference on, 23:37448 (STI/PUB-197)
- development of, review, 21:15684
- development of, review of, 23:28438
- development of, review of, 24:33232 (TRG-Report-1926)
- development of, review of, 24:50069 (CONF-700401-, pp 113-41)
- development of, review of, 24:46009
- development progress for large power, 23:15563
- dynamics characteristics of, computer simulation of transient, 24:31046
- economic aspects of 600 MW(e), 22:6057
- economic aspects of, comparison with light water reactors, 22:6059
- economics of dual purpose, for industrial power and steam production, 24:4111
- economics of German, 22:53338
- economics of Great Britain and United States, comparison of, 22:14223
- economics of power, comparison of various reactor types to, 24:50149
- economics of power, comparison with other common reactor types of, 25:20749
- economics of, comparison with other reactor types of, 25:15240
- fission product content in, use of FISP code for calculation of, 23:52353 (RD/B/N-1428)
- fuel assemblies for, analysis of fluid flow pressure drop in 36-rod-cluster, 23:13492
- fuel cycle costs for, effects of various supply schemes on, (T), 25:1905
- fuel cycle for U.K., comparison with Magnox and high temperature gas cooled reactor design parameters for optimum, 23:37518
- fuel cycle for, reduced initial loading effects on economics of, 24:13559
- fuel element assemblies for, helical ribs for uniform temperature distribution in, 25:25990(P)
- fuel element cladding for, effects of acoustic noise on, (T), 23:43123
- fuel element cladding for, effects of chamfered rib height and volume on heat transfer and pressure drop of, (E), 24:29017 (RD/B/N-1595)
- fuel element cycle management for, analysis of continuous on-load, 24:38548
- fuel element failure in, performance of detection system for, 24:4018
- fuel element handling in, equipment and procedures for on-load, 25:20738
- fuel elements for, analysis of radiations from, 25:25985 (RD/B/N-1887)
- fuel elements for, design and fabrication of, 22:46937
- fuel elements for, design, development, and supply of, 22:6061
- fuel elements for, development of, 24:52924
- fuel elements for, development of silicon carbide (SiC) coated ceramic pin type, 23:37523
- fuel elements for, effects of surface shape on performance of, (T), 25:26000
- fuel elements for, fabrication of high-temperature, 22:36533(P)
- fuel management in, use of ODYSSEUS-6 code for optimization of, (T), 24:50138 (AEEW-R-652)
- fuel pin cladding of, effects of heat source boundary conditions on temperature distributions in finned, 25:39253 (RD/B/N-1932)
- fuels for, preparation of spherical carbide, 22:49788
- fuels for, thermal and radiation effects on uranium oxide (UO_2), 25:54090 (A/CONF.49/P-501)
- heat exchangers for, deaerator system for feedwater supply to, 25:51118(P)
- instrumentation for, review of, 23:746
- loading machines for, conceptual design requirements of, 24:52939
- loading machines for, design, development, and operation of, 24:28864
- loading machines for, development and operations of, 24:52936
- loading machines for, performance of, 25:53901 (A/CONF.49/P-470)
- moderator for, fast neutron radiation effects on mechanical properties of isotropic graphite, 23:36295
- moderator for, mathematical model of methane concentrations in graphite, 25:57044
- neutron buckling in lattices of, axial, (E/T), 25:28806 (RD/B/N-1837)
- neutron diffusion coefficients for, corrections to Benoist, (T), 24:38622 (RD/B/N-1645)
- neutron flux in, performance of digital computer simulator for, 25:1871 (RD/B/N-1749)
- neutron reaction rates in lattice of, measurement of manganese, 25:28816 (RD/B/N-1518)
- operation in U. S. of, economics for, 23:23847
- operation of, description of design features for, 22:46906 (NP-17599, pp 1-6)
- operations aspects of, analysis of load following, 25:53942 (A/CONF.49/P-479)
- performance in U.K. of, review of, 23:31135
- potential of German, for power—process steam plants, 22:53338
- power conversion system for, coolant temperature control of power output from, 25:54170(P)
- pressure vessels for, earthquake resistance of prestressed concrete, (T), 24:24868
- safety aspects of, 25:54147 (A/CONF.49/P-475)
- safety aspects of, probability analysis for, 24:50060
- safety features of, description of, 22:46906 (NP-17599, pp 1-6)
- safety features of, review of, 23:43136
- safety of, ability of design to withstand earthquakes, 22:3854
- shielding for, calculation method for design of internal axial, 23:13482 (AERE-R-5773(Vol.5), pp 1400-38)
- shielding problems in, calculational techniques for solution of, 23:13353 (AERE-R-5773(Vol.4), pp 1175-1204)
- shutdown of, method for core cooling during, 25:54080(P)
- shutdown of, optimum control of xenon dominated, (T), 23:31230
- simulator for, description of analog computer for, 22:7921
- siting of, safety aspects for urban, 23:37566
- steam generators for, design of once-through, 23:45100 (CONF-681064-4)
- structural materials for, requirements for corrosion resistance of, 22:47660 (CONF-671007-2)
- use of coaxial core high temperature helium cooled and carbon dioxide cooled, for electricity and steel production, 24:9154

Reactors, Air-Cooled
- see Reactors, Gas-Cooled

REACTORS, AIRCRAFT
- see also Aircraft Reactor Experiment
- see also Initial Engine Test
- configuration of dual-purpose atmosphere-fueled rocket and, evaluation of conceptual, (T), 22:50784
- containment vessel for, impact speed and angle criteria for design of, 25:60192 (N-71-25411)
- core meltdown in, criticality of fuel mass configurations following, (T), 25:18199 (N-70-36660)
- description of fuselage mounted, with wing mounted propulsion units and auxiliary gas turbine systems, 25:12831(P)
- design for use with plasma jet propulsion engine, 24:24897(P)
- design of, for ramjet engines, 21:2870(P)
- design parameters for high speed peripheral jet, calculation for surface effects machine of, 24:4116 (N-69-36757)
- design parameters for liquid metal cooled, conceptual, 25:51207
- design parameters of closed cycle helium cooled, with wing mounted propulsion turbines, 25:20810(P)
- design parameters of fuselage mounted, with wing mounted propulsion units, 25:12832(P)
- development for large long-range aircraft, 24:18747
- development for large long-range aircraft, 24:18748
- development potential for, 25:18201
- development program for gas-cooled, description of feasible, 22:35581
- economics of large, on long range flights, 24:18746
- engine for, cycle optimization for steam-driven turbofan, (T), 24:13616 (N-69-40060)
- heat pipe system for, design parameters of, 24:31118 (N-70-23226)

heat pipe system for, design study of, 24:29063 (N-70-12923)
physics measurements for Aircraft Nuclear Propulsion, analysis of, (E/T), 22:50782 (APEX-918)
shielding calculations for Aircraft Nuclear Propulsion, analysis of, (E/T), 22:50782 (APEX-918)
Reactors, Army
see Army Reactors
Reactors, Auxiliary Power
see Nuclear Auxiliary Power Systems
REACTORS, BERYLLIUM-MODERATED
see also Beryllium Oxide Reactor Experiment
see also Salem Power Reactor, Unit 2
see also Submarine Intermediate Reactor
control rod worths in pebble-bed type, 21:35537 (AAEC/TM-375)
cores for high-temperature gas-cooled, design study of parallel-channel and pebble-bed, 21:12116 (AAEC/E-153)
design concept for rocket, 25:6136
design of, with fuel and moderator in a glass melt, 21:14039(P)
design parameters of air cooled beryllium oxide moderated ABORIGINE concept, 24:43685 (AAEC/TM-534)
fuel cycles for high-temperature, gas-cooled, 21:1192
fuel cycles for pebble bed, thorium, 21:1195
fuel element and moderator matrix materials for, 21:8178(P)
fuels for, computer analysis of thermal stresses in, 21:35770 (AAEC/TM-371)
kinetic behavior of, effect of fuel particle size on, 21:35661 (AAEC/E-167)
loading machine for gas-cooled, design of, 21:10192(P)
Reactors, Biphenyl-Moderated
see Reactors, Organic-Moderated
Reactors, Bismuth-Cooled
see Reactors, Liquid Metal-Cooled
REACTORS, BOILING
see also Army Reactors (PL-2)
see also Army Reactors (SL-1)
see also Bailly Power Reactor, Unit 1
see also Barsebaeck Power Reactor, Unit 1
see also Bell Station Power Reactor
see also Beloyarsk Power Reactor, Unit 1
see also Beloyarsk Power Reactor, Unit 2
see also Big Rock Point Power Reactor
see also Bilibiu Power Reactor
see also Bodega Bay Power Reactor
see also Boiling Reactor Experiments
see also Browns Ferry Power Reactor, Unit 1
see also Browns Ferry Power Reactor, Unit 2
see also Brunsbuettel Power Reactor
see also Brunswick Power Reactor, Unit 1
see also Brunswick Power Reactor, Unit 2
see also Chinshan Power Reactor, Unit 1
see also Chinshan Power Reactor, Unit 2
see also Cooper Power Reactor
see also Dodewaard Power Reactor
see also Dresden Power Reactor, Unit 1
see also Dresden Power Reactor, Unit 2
see also Dresden Power Reactor, Unit 3
see also Easton Power Reactor
see also Edwin I. Hatch Power Reactor, Unit 1
see also Edwin I. Hatch Power Reactor, Unit 2
see also Elk River Power Reactor
see also Experimental Boiling Water Reactor
see also Fermi Power Reactor, Unit 2
see also Fukushima Power Reactor, Unit 1
see also Fukushima Power Reactor, Unit 2
see also Fukushima Power Reactor, Unit 3
see also Garigliano Power Reactor
see also Gentilly Power Reactor
see also GKN Reactor
see also Gundremmingen Power Reactor
see also Halden Boiling Reactor
see also Hamaoka Power Reactor, Unit 1
see also Humboldt Bay Power Reactor
see also James A. Fitzpatrick Power Reactor
see also Japanese Advanced Thermal Reactor
see also Kashima Power Reactor, Unit 1
see also La Crosse Boiling-Water Reactor
see also La Salle County Power Reactor, Unit 1
see also La Salle County Power Reactor, Unit 2
see also Leningrad Power Reactors
see also Limerick Power Reactor, Unit 1
see also Limerick Power Reactor, Unit 2
see also Lingen Power Reactor
see also Maritime Nuclear Steam Generator
see also Mendocino Power Reactor, Unit 1
see also Mendocino Power Reactor, Unit 2
see also Millstone Point Power Reactor, Unit 1
see also Monticello Power Reactor, Unit 1
see also Muehleberg Power Reactor
see also Newbold Island Power Reactor, Unit 1
see also Newbold Island Power Reactor, Unit 2
see also Nine Mile Point Power Reactor
see also Oskarshamn Power Reactor
see also Oyster Creek Power Reactor, Unit 1
see also Peach Bottom Power Reactor, Unit 2
see also Peach Bottom Power Reactor, Unit 3
see also Philippsburg Power Reactor
see also Prototype Advanced Thermal Reactor
see also Puerto Rico Power Reactor
see also Quad Cities Power Reactor, Unit 1
see also Quad Cities Power Reactor, Unit 2
see also Reactors, Pressurized Water
see also Santa Maria de Garona Power Reactor
see also Shoreham Power Reactor, Unit 1
see also Sioux Falls Power Reactor
see also Steam-Generating Heavy-Water-Moderated Reactor
see also Supercritical Once-Thru Tube Reactor
see also Susquehanna Power Reactor, Unit 1
see also Susquehanna Power Reactor, Unit 2
see also Swedish Reactors (R-4)
see also Tohoku Power Reactor, Unit 1
see also Trino Power Reactor
see also Tsuruga Power Reactor
see also VAK Reactor
see also Vallecitos Boiling-Water Reactor
see also Vermont Yankee Power Reactor
see also VK-50 Reactor
see also William H. Zimmer Power Reactor, Unit 1
see also William H. Zimmer Power Reactor, Unit 2
see also Wuergassen Power Reactor
accident evaluation for large power, analytical methods for hypothetical, 23:47095 (APED-5756)
accident simulation for 3300 MW(t), CHEMLOC-2 computer program for coolant loss, 22:53260 (ANL-7425, pp 130-71)
accidents in power, assumptions for evaluation of radiation hazards from steam line break, 25:28744
auxiliary power systems for, performance requirements for standby diesel, 23:31173
bibliographies on foreign and domestic power, 23:17175 (BNWL-936(Vol.1))
bibliography on power, 22:44841 (WASH-1082)
blowdown analysis for, use of dimensional analysis technique for, 22:39808
blowdown characteristics for, effects of pressure vessel with perforated sieve plate separator on, 25:26001 (BNWL-1463)
blowdown in pressure tube, effects of transients on, (E), 24:9096
blowdown in, MATRA computer program for hydrodynamics of, 24:9095
blowdown in, pressure vessel liquid level during, (E/T), 24:7159
blowdown of, simulation for up to 30 psig, (E), 24:5535(T) (NP-tr-1865)
blowdown parameter measurements for, tabular summary of CSE, 22:12008(R) (BNWL-537)
blowdown simulation programs for, considerations in establishing, 23:37578
burnout correlation for flow in vertical rod bundles of, 21:30607 (AE-276)
burnout in channels of, effect of loss of coolant flow on, 21:39114 (TID-23986)
chemical aspects of, comparison with JPDR of, 21:46855 (JAERI-1135)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
components for German, development and testing of, 24:47812
components for, earthquake resistant design requirements for, 25:31601
computer systems for on-line measurements in, 21:34175
configuration of integral pressure vessel-enclosed, with upper end-condenser and downward capillary-return, 23:1994(P)
construction in industrialized and developing countries, cost variations for, 24:28911
construction of power, problems of, 23:47149
containment buildings for, evaluation of protective coatings for, 22:42191 (IN-1169)
containment cooling sprays for, efficiency of, 22:46912 (ORNL-NSIC-25)
containment for, effects of sudden pressure loss on, 24:13524(T) (ORNL-tr-2244)
containment spray solutions for, post accident radiolytic gas production and concentration from, (E), 25:6035 (ORNL-TM-2412(Pt.8))
containment spray system for, radiolytic hydrogen generation by, 25:34392(R) (ORNL-4647)
containment sprays for, analysis of iodine removal, 25:10238(R) (BMI-1890)
containment structure for, description of accident safety, 22:30182
containment structures for 600 MW(e), design and performance of prestressed concrete, 25:31551 (EUR-4531, pp 615-45)
containment structures for, advantages and economics of using heated walls in prestressed concrete, 23:28533
containment structures for, design modifications of, 25:5885
containment structures for, performance of protective paint coatings for, 24:33347
containment structures for, test procedures for evaluation of protective coatings on, 23:19513 (IN-1253)
containment structures of, development of high efficiency pool sorption system for, 23:23940 (ORNL-4360)
containment system for power, performance during coolant loss accident of pressure suppression, 25:54118 (NEDO-10320)
containment system for, estimated radiolytic hydrogen produced by spray and coolant decomposition in, 22:42160(R) (BMI-1844)
containment system for, evaluation of pressure suppression/gravity flooding, (T), 24:47880 (GEAP-5536)
containment system for, iodine deposition on coatings of, 22:22657(R) (BMI-X-10222)
containment system for, scale model test of fission product removal in pressure suppression, 25:39257 (GEAP-13172)
containment system of heavy water moderated power, design parameters for pressure suppression, 24:20586
containment systems for power, analytical modeling methods for coolant loss accident induced transient in pressure suppression, 25:57057 (NEDO-10320(Suppl.1))
containment systems for power, effect on site selection of, 23:15564
containment systems for power, evaluation of missile generation and protection in, 23:33073
containment systems for power, evaluation of testing of, 22:46913 (ORNL-NSIC-26)
containment systems for, CONTEMPT-PS code for determining effects of coolant loss accidents on pressure suppression, 22:32881
containment systems for, description of fission product, 22:30203
containment systems for, evaluation of effects of metal—water reactions under coolant loss accident conditions on, 23:47220 (APED-5454)
containment systems for, summary of safety features of air-cleaning equipment for, 22:46912 (ORNL-NSIC-25)
containment systems for, systems approach to design of, 22:18440
containment vessels for, description of inside-outside separation valves in double-wall, 22:14212(P)
control element bottom-drive system for, description of folded-plate drag device for accident fall of, 23:11365(P)
control element bottom-drives for, description of concentric-cylinder hydraulic, 23:11366(P)
control element drives of, performance of operation and shutdown, 24:28874
control element programming in, effects of refueling schemes on optimum, (T), 25:60101
control elements for two region, calculation of optimum performance of rod type, (E/T), 24:11322
control elements for, analysis of field testing requirements for, 25:54098 (NEDO-10017)
control elements of, development of boron—stainless steel alloy and boron carbide (B_4C), 24:28874
control of 300 to 500 MW(e), technical aspects of, 25:28721
control of heterogeneous, design of system for, 21:5657(P)
control of power, effects of steady-state and transient heat flux on transient boiling burnout, 23:19478
control of power, prompt load characteristics by extraction flow, (E/T), 23:49556
control of power, system partitioning approach for transient digital, (T), 24:46027
control of, parametric studies on use of coolant flow for, 23:13441 (APED-5640)
control of, use of buoyant reflector and fuel assemblies for, 21:44899(P)
control rod drive mechanism for power, results of impact testing of collect assembly for, 23:47187 (APED-5555)
control rod drive mechanism for, performance of, 21:30210
control rod drives for, description of double-sealed pressure equalizing cylinder for, 22:20871(P)
control rod drives for, description of dual interconnected hydraulic piston, 25:10188(P)
control rod drives for, development of, 22:25012
control rod materials for, summary of properties and performance of, 23:11174
control rod worth minimization in, use of computers for, 21:25684
control rods for power, detailed description of design and operation of worth minimizer for, 23:52191 (APED-5449)
control rods for, effects on reactivity excursions of withdrawal patterns and worth distributions of, 23:47222 (APED-5528)
control rods for, results of development and testing of velocity limiter for, 23:47186 (APED-5446)
control system for dual purpose power and process heat, description of single circuit, 24:26747
control system for power, design characteristics of on-line process computer, 24:47839
control system for power, with load actuated rapid opening water supply valves, 24:11175(P)
control system for water cooled, development of automatic, 24:24689
control system for, description of instrumentation and power supply for, 22:20835
control system for, description of liquid poison and coolant water separate flow channels for, 22:18537(P)
control system for, description of power stabilizing boiling moderator, 25:39243(P)
control system for, description of water injection, 24:26746(P)
control system for, design of, 21:5661(P)
control system for, design of, 21:21692(P)
control system for, design parameters for coolant inlet valve, 24:47846(P)
control system for, design requirements of, 25:28675
control system for, review of, 21:17502
control system of 500 MW(e) heavy water moderated, use of on-line digital computer for, 24:20548
control system of power, development of neutron in-core monitor for, 23:15580
control system of power, use of on-line digital computer for, 24:7012
control system transfer function measurements using noise analysis, 21:30129 (CONF-660206, pp 439-53)
control systems for power, development in U.S. of instrumentation for, 25:39163 (IAEA-119, 29p.)
control systems for power, use of digital computers in, 22:48685
control systems for self-regulated power, analysis of startup and shutdown behavior of, 23:4197
control systems for water cooled, digital control algorithm for on-line noise analysis in, 24:38508
control systems for, analysis of safety flow-scheme for, 22:53314
control systems for, description of, 23:2015
control systems for, description of, 22:42220
control systems for, description of fast response, 25:34332
control systems for, effects of gadolinium additions to fuel on, (T), 24:40933 (RT/FI-(70)20)
control systems for, effects of two turbine power plant on, 24:47842
coolant blowdown in, transient and dynamic pressures, temperatures, stresses, flow rates, and hydraulic forces from, (E/T), 25:44133 (BNWL-1524)
coolant boiling in, bubble growth rate during transient, (E/T), 22:22873
coolant boiling in, critical heat flux and heat transfer for, (E/T), 25:23281
coolant boiling in, critical heat flux for, (E/T), 25:28660

coolant channel void fraction in, simulation of, 21:14082 (NP-16426)
coolant channels in water-cooled, wick-boiling in porous magnetite-coated, (T), 25:54862 (AEEW-R-711)
coolant channels in, burnout heat flux measurements in, 21:19351(R) (EURAEC-1524)
coolant channels in, comparison of hydrodynamics models for determining static and dynamic behavior in, 23:28446
coolant channels in, randomness effects on neutron intensity attenuation factors in, 23:34904
coolant cycles for, 22:1788
coolant density variation disturbances in, model of, 21:43173
coolant flow and pressure oscillations in natural-circulation, 21:12167
coolant flow and thermodynamics of heavy-water, calculations of, 21:19427
coolant flow and thermodynamics of heavy-water, three-zone calculation of, 21:19428
coolant flow and thermodynamics of, three-zone calculation of, 21:19428
coolant flow blockage in, effects on fuel assembly integrity of, 24:46070 (NEDO-10174)
coolant flow control system for, with distributing vessel for feedwater, 23:40357(P)
coolant flow in core of, effects on heat transfer of turbulence in, 22:14202
coolant flow in parallel channels of, effects of orifice pressure drop on burnout heat flux for, 23:4205(T) (NSJ-tr-131)
coolant flow in water cooled, density-wave oscillations in two-phase, (E), 24:33305
coolant flow in, description of fuel element-enclosing multiple split-ring flow diverters for, 23:2045(P)
coolant flow in, design of plate for increasing pressure of, 23:13918(P)
coolant flow in, full scale mockup for hydrodynamic stability in parallel channel, (E), 24:1989
coolant flow in, hydrodynamic instabilities of, 21:12193
coolant flow in, stability of two-phase, (T), 24:44190
coolant flow instabilities in channels of, effects of by-pass characteristics on parallel-channel, (E), 24:373
coolant flow regime and heat transfer in, equipment and methods for analysis of, 21:10529 (GEAP-5287)
coolant for heavy water moderated power, steam drying for recovery of, 24:20565
coolant for, suppression of radiolytic oxygen production by ammonia additive in, 23:37502(P)
coolant incipient boiling in liquid-cooled, (E/T), 22:22874
coolant leak detection in drywell of primary containment of, instrumentation for, 22:16127 (CONF-671011-, pp 228-37)
coolant level indicator for, design of, 21:30759(P)
coolant loops for, dynamics of two-phase stationary flow in, 23:32988 (DOCKET-50010-14)
coolant loss accident conditions in, analysis of pressure suppression containment system transients during, 25:57057 (NEDO-10320(Suppl.1))
coolant loss accident conditions in, computer simulation of, 25:10238(R) (BMI-1890)
coolant loss accident heat transfer in simulated, effects of core spray cooling on, 23:7392
coolant loss accident simulation for 3300 MW(t), CHEMLOC-2 computer program for, 22:53260 (ANL-7425, pp 130-71)
coolant loss accidents for conceptual 3300 MW(t), analysis of, 22:16265(R) (ANL-7403)
coolant loss accidents in burst release of fission products from uranium oxide (UO$_2$) fuels during, (T), 24:29034(R) (BMI-1881)
coolant loss accidents in power, assumptions for evaluation of radiation hazards from, 25:28743
coolant loss accidents in water cooled, thermal and hydraulic phenomena from emergency coolant injection following, (E), 24:38576 (IN-1385)
coolant loss accidents in Zircaloy-clad uranium oxide (UO$_2$)-fueled, thermal and hydraulic reactions to, 22:27399(R) (BMI-1835)
coolant loss accidents in Zircaloy-clad uranium oxide (UO$_2$)-fueled, fission product behavior in, 22:27399(R) (BMI-1835)
coolant loss accidents in, analysis of effects of metal-water reactions during, 22:42202 (ORNL-NSIC-23)
coolant loss accidents in, analysis of radiolytic production of hydrogen during, 22:42160(R) (BMI-1844)
coolant loss accidents in, analytical description of, 25:60111(R) (BMI-1917)
coolant loss accidents in, analytical description of, 22:16108(R) (BMI-1825)
coolant loss accidents in, analytical description of, 25:37036(R) (BMI-1904)
coolant loss accidents in, analytical description of, 24:43783(R) (BMI-1885)
coolant loss accidents in, blowdown and core heatup during, 25:54168
coolant loss accidents in, CHEMLOC-II code calculations of metal-water reaction, core heating, and core motion following, 22:27397 (ANL-7375, pp 135-59)
coolant loss accidents in, computer codes for analysis of, 23:37574
coolant loss accidents in, description of Japanese blowdown test facility for simulating, 22:42267
coolant loss accidents in, effects of pressure drop, power level, and boiling on coolant evaporation following, 23:28503(R) (BMI-1861)
coolant loss accidents in, evaluation of bottom flooding for core temperature transient control following, 22:32860
coolant loss accidents in, evaluation of data for analytical description of, 23:45095(R) (BMI-1867)
coolant loss accidents in, evaluation of data for analytical description of, 24:16211(R) (BMI-1877)
coolant loss accidents in, evaluation of data for analytical description of, 24:29034(R) (BMI-1881)
coolant loss accidents in, evaluation of data for analytical description of, 24:7141(R) (BMI-1871)
coolant loss accidents in, evaluation of recorded data for safety analysis of, 25:18155(R) (BMI-1897)
coolant loss accidents in, formulation of physical model for determining fuel cladding behavior under, 23:28503(R) (BMI-1861)
coolant loss accidents in, guide for evaluation of radiological consequences from, 25:31526 (TID-25697)
coolant loss accidents in, long term core recovery cooling requirements during, 23:28503(R) (BMI-1861)
coolant loss accidents in, methods for reducing fission product concentration in containment vessel following, 22:46912 (ORNL-NSIC-25)
coolant loss accidents in, model analysis of, 25:34390 (NEDO-10329)
coolant loss accidents in, radiolytic gas production and concentration following, (E), 25:6035 (ORNL-TM-2412(Pt.8))
coolant loss accidents in, use of NURLOC code for analysis of, 21:46906
coolant loss conditions for, analysis of radiolytic production of hydrogen in, 23:28528
coolant loss conditions in, calculation of critical flow for, (T), 24:7163
coolant loss in, BRUCH-S computer program for hydraulic stresses during, 23:33070
coolant loss in, computer programs for analysis of core heatup during, 22:35424 (BMI-1841)
coolant of power, purification system for, 24:7013
coolant pipe rupture in, extent and initiation of primary, 22:646(R) (BMI-1817)
coolant pipe rupture in, initiation and extent of, (E), 21:44959(R) (BMI-1813)
coolant pipes in, effects of defect size on ductile rupture of, 21:14816(R) (BMI-1793)
coolant pump design for, 21:23647
coolant pumps for, design of internal axial-mounted, 22:25014
coolant quality in heavy water moderated power, calculation methods for, 24:20566
coolant recombiner for, development of catalytic, 23:33049
coolant reconcentration in heavy water moderated power, procedures for optimum, 24:20567
coolant stability and boiling in, dynamic analysis of, 22:12028 (KR-121)
coolant system for, steady state and dynamic behavior of, (E), 21:1219(R) (EURAEC-1682)
coolant systems for 10,000 MW, design of primary recirculating, 21:40555 (GECR-5155)
coolant systems for, crack initiation and propagation in pipes of, 24:2914(R) (BMI-1873)
coolant systems of, efficiency of leak detection methods for on-line monitoring of primary, 22:6680 (SNE-36)
coolant two-phase flow in, design of electric void meter for studying, 22:28246
coolant void fraction fluctuations in, effects on reactivity and isotopic composition of fuel elements from, (T), 23:47339(R) (BNWL-1106)
coolant void fractions in, design of void-meters for measuring, 22:12691
coolant water chemistry in hermetically sealed, 22:26029 (ORNL-4229, pp 71-83)
coolant-loss accident model for 600-Mw(t), using FRACREL and NURLOC codes, (T), 21:5601 (BMI-1779)
coolant-loss accident model of, evaluation of existing data for, 21:7859(R) (BMI-1777)
coolant-loss accidents in, analysis by NURLOC computer code, 21:27665(R) (BMI-1797)
coolant-loss accidents in, performance of core standby cooling systems following, 22:50701 (APED-5458)
coolants for, calculational model for thermodynamics and hydrodynamics of, 22:25003
coolants for, evaluation of data on density of two phase mixtures in, 23:26123
cooling channel blockage in, effects on cladding temperatures of, (T), 24:43783(R) (BMI-1885)
cooling channel heat transfer characteristics during coolant loss accidents in, (E/T), 23:45095(R) (BMI-1867)
cooling channels for, stochastic methods for analyzing hydrodynamic instabilities in, 23:28466
cooling channels for, use of Freon to model dryout in, 25:37001 (AECL-3787)
cooling channels of, dynamic model for high pressure forced circulation, (T), 23:4202 (EUR-4052)
cooling system comonents form requirements and responsibilities of ASME code for inservice inspection of, 24:18642
cooling system corrosion in, effects of water purification on, 22:3844 (ORNL-4173)
cooling system corrosion in, methods for inhibiting, 25:39998
cooling system design for, 21:35639(P)
cooling system design for water cooled, control aspects of, 24:31059
cooling system dynamic and steady state behavior in, analysis of, 21:15651(R) (EURAEC-1745)
cooling system dynamic behavior in, hydrodynamic model analysis of, (E/T), 22:37441 (HPR-97)
cooling system for emergency shutdown of heavy water-moderated water-cooled, description of perforated central-tube lateral flow water, 22:42279(P)
cooling system for heavy water-cooled and -moderated, description of pressure control by steam-cooled moderator tank in, 22:39804(P)
cooling system for heavy water-cooled and -moderated, description of indirect cycle, 23:23904(P)
cooling system for power, description of multiple downward flow impellers in forced circulation, 23:28463(P)
cooling system for superheating, description of core extended superheat tube, 23:43107(P)
cooling system for, description of closed loop upward core flow with vertical pump for, 23:49560(P)
cooling system for, description of feedwater dual-jet pump for, 22:37482(P)
cooling system for, description of fuel assembly multi-hole nozzle spray, 23:9147(P)
cooling system for, description of restricted flow downcomer for uniform flow in core, 23:23909(P)
cooling system for, description of restricted-flow closed-loop, 23:11197(P)
cooling system for, description of spaced in-core ducts with multiple injection nozzles, 25:10200(P)
cooling system for, description of turbine pump for, 25:37014(P)
cooling system for, design modifications of, 25:5885
cooling system for, design of dual gas—liquid, 21:5643(P)
cooling system for, design requirements and performance of valves for primary, 25:37002 (AECL-3858)
cooling system for, effects of corrosion on low-cycle fatigue life of piping in, 24:46034(R) (GEAP-11069)
cooling system for, evaluation of effects of metal—water reactions under coolant loss accident conditions on, 23:47220 (APED-5454)
cooling system for, flow oscillations in fuel channel of, (E/T), 21:23666
cooling system for, performance of low-alloy steel and austenitic stainless steel in primary, 24:18641
cooling system for, ring-electrode meter for measuring void fraction in, 22:21390(T) (AEC-tr-6930)
cooling system for, rupture characteristics of primary steam, (E), 24:36052
cooling system for, use of electroslag welding and ultrasonic testing for primary, 24:18641
cooling system for, water chemistry in, 24:14646 (ORNL-4400, pp 57-68)
cooling system hydrogen—oxygen recombiner for, testing for optimum alumina-supported palladium catalyst in, 23:2025
cooling system internally-heated steam—water separators for, description of, 22:37489(P)
cooling system of, description of direct cycle, 23:37499(P)
cooling system of, description of method for reducing voids in, 25:46165(P)
cooling system of, description of peak-pressure valve for steam bypass in, 22:37468(P)
cooling system of, description of ring arranged jet pumps for, 23:47198(P)
cooling system of, hydrodynamic transfer functions for, (T), 24:4149 (CISE-R-120)
cooling system of, low cycle fatigue testing of steel pipes for, 24:18631(R) (GEAP-10120)
cooling system of, low cycle fatigue testing of steel pipes for, 24:36016(R) (GEAP-10143)
cooling system of, reliability analysis of, 21:38456(R) (GEAP-5474)
cooling system of, use of overhead jet pumps in, 24:5525(P)
cooling system of, VAPOTRON principle for, 22:1759 (EURAEC-1890)
cooling system parameters affecting power level at hydrodynamic instability in natural circulation two-phase flow in, (E), 22:35532
cooling system pipes of, fracture mechanisms of steel primary, 22:45763(R) (BMI-1847)
cooling system pipes, stress reliability model for, 21:25625(R) (GEAP-5427)
cooling system piping for, design calculation model for stress analysis of primary, 23:47195 (GEAP-5724)
cooling system recombiner for, mechanical properties and performance of aluminum oxide-supported palladium catalysts for, 23:4209
cooling systems for heavy water cooled, design of indirect cycle, 25:25977(P)
cooling systems for water-cooled power, performance following coolant-loss accidents of core standby, 22:50701 (APED-5458)
cooling systems for, corrosion product migration into steam in, 21:13999
cooling systems for, critical flow measurements for, 22:1820
cooling systems for, demineralizing water treatment in, 24:14034
cooling systems for, description of entrance and exit nozzle for flow tubes for, 22:10039(P)
cooling systems for, effects of corrosion in, 25:25972 (BNWL-SA-3807)
cooling systems for, effects of corrosion on low cycle fatigue life of piping in, (E), 25:12783(R) (GEAP-10207-22)
cooling systems for, effects of corrosion on low-cycle fatigue life of piping in, (E), 25:60061(R) (GEAP-10207-24)
cooling systems for, effects of corrosion on low-cycle fatigue life of piping in, (E), 25:1880(R) (GEAP-10207)
cooling systems for, heat transfer and stability characteristics of, (E/T), 22:22686 (EURAEC-1996)
cooling systems for, testing of low-cycle fatigue life of carbon and stainless steel piping in, (E), 25:28680(R) (GEAP-10207-23)
cooling systems for, use of constant speed pumps and feedwater driven pumps in, 25:60067(P)
cooling systems heat transfer in, effects of pressure drop in parallel flow channels on, (E/T), 22:35456(R) (EURAEC-1965)
cooling systems of heavy water moderated power, PRETOR-6 computer program for thermal and hydraulics performance of, 24:20563
cooling systems of power, integrated analytical model for two-phase flow stability in, (T), 23:15716
cooling systems of water cooled, effects of twisted tapes on dynamic behavior of, (E/T), 24:36028

cooling systems of, deposition of steel corrosion products in, (E), 25:51071
cooling systems of, design and performance of internal axial pumps for, 24:1990
cooling systems of, drop type cyclones for steam separation in, (E/T), 21:12128(R) (EURAEC-1699)
cooling systems of, power transient effects on hydrodynamics of, (E/T), 25:46262
cooling systems of, review of critical heat flux analysis methods for, 23:4204 (FEI-111)
cooling water from, processing of, 25:21152
cooling water radiolysis in, 25:10491 (ORNL-4636, pp 20-33)
copper-64 content of cooling water in, 23:28734
core barrel and support structure for, design parameters for stress relieved, 24:47864(P)
core behavior in, effects of steam voids on, (E/T), 23:45061
core configuration of water-cooled heavy water-moderated superheating power, description of improved, 22:44837 (TRG-Report-1692)
core cooling system for, description of overhead steam-sampling and -venting movable-nozzle emergency, 23:19503(P)
core design for 600-MW(e), high power density, 21:17448(R) (GEAP-4974)
core design parameters for, 21:40555 (GECR-5155)
core emergency cooling for, cooldown rates and heat transfer coefficients for, 23:28503(R) (BMI-1861)
core for variable-gravity-operating, description of multiple parallel fuel elements with helical-twisted strip-shaped coolant deflectors in, 23:15617(P)
core for, analysis of load following effects on spatial power distributions in, 23:13441 (APED-5640)
core for, depressurization performance of high pressure coolant injection system for emergency cooling of, 24:18469 (APED-5447)
core for, description of horizontal coolant-fuel channels with external vapor-liquid separator connection for, 22:10033(P)
core for, description of multiple vertical fuel bundles with right angle four point leaf spring and stop spacers in, 23:21497(P)
core for, description of parallel arranged removable guide tubes in, 25:10218(P)
core for, mathematical model for calculation of dynamics of, 22:25003
core for, methematical model for forced convection cooling of partially crumbled, 23:28503(R) (BMI-1861)
core for, results of tests on bottom entry flooding for emergency cooling for, 23:4273 (IDO-17278)
core for, use of thermal symmetry to simulate post-blowdown heatup temperature transients in, 23:11256(R) (IDO-17265)
core lifetime for, effects of physics parameter uncertainties on, 22:44841 (WASH-1082)
core meltdown accidents in, methods for containment of molten mass and fission products following, (T), 25:48281 (BMI-1910)
core of, mockup for high-pressure analysis of maximum heat flux in, 23:6007
core parameters for heavy water, three zonal calculation method for thermal and hydraulic, 22:10015
core performance in water cooled, review of computer methods for prediction of, 24:47724
core performance of, computer analysis of three-dimensional power and void distributions for, 22:22763
core performance of, real-time simulation and monitoring requirements for optimum, 25:18151
core physics for, effects of steam voids on, (E/T), 25:10175
core power density in, effects of burnout on, 23:17679
core reactivity calculations in light water moderated, 21:21622 (AECL-2649)
core shroud for, design of, 24:9108(P)
core standby cooling systems for General Electric, compliance to industry criteria of, 24:38394 (NEDO-10139)
core with upward-flow coolant and annular spaced downward-flow steam separators for, description of cylindrical, 22:30275(P)
cores for, design and performance parameters of, 25:41393
cores of, calculation of optimum design parameters for, 25:54085 (A/CONF.49/P-312)
corrosion product activation in, 21:12189
corrosion product mass transfer equations for, 21:12189
corrosion products build-up and behavior in core of, 21:25677
corrosion products build-up and behavior in out-of-core parts of, 21:25677
cost analysis for 70 MW(t) open vessel well-type, for desalination, 25:28793
cost analysis for medium power, 25:28715
cost analysis for medium power, for developing countries, 25:28637
cost analysis for underground 1000 MW(e), 25:31600
cost trends for dual-purpose power, net unit, 23:13418 (TID-24767)
costs of power, methods for calculating German and international, 24:16093
critical heat flux for conceptual 250 MW heavy water-moderated, effects of heated and unheated central rod on 19-rod bundle-type core, 23:17190 (TID-24956)
critical heat flux for, Freon-22 simulation of two-phase flow, (E/T), 23:15635
critical heat flux in pressurized-water, method and apparatus for increasing, 21:23675(P)
critical heat flux simulation in Inconel-X nine-rod test channels, effects of flow rate and pressure on steam—water two phase flow, 22:53275 (GEAP-5616)
criticality measurements for uranium dioxide fueled water-cooled, effects of superheat regions on, 22:1855 (CEND-115)
cyclone separators for 160 MW(e) and 600 MW(e), testing programs for development of steam separating, 24:18629 (EURAEC-2127)
cyclone separators for 600 MW(e) direct cycle, test program for development of downflow, 23:43105(R) (EURAEC-1966)
cyclone separators for power, testing programs for development of steam separating, 24:18630(R) (EURAEC-2132)
cyclone separators for, test program for optimum design parameters of single downflow, 23:43106(R) (EURAEC-2029)
cyclone steam separators for, design and testing of, 22:12475(R) (EURAEC-1945)
cyclones for steam separation in, testing of, 21:35775(R) (EURAEC-1835)
decontamination of equipment and surfaces of, 25:53989 (A/CONF.49/P-799)
description of 0.1 MW(e) water-cooled, 22:22787(R) (ORNL-4216)
description of 1.5 MW(e) water-cooled, 22:22787(R) (ORNL-4216)
description of cylindrical coolant-flow-control natural circulation, 22:42242(P)
description of dual- and single-purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of fast fused-salt, 21:19396
description of heavy water-cooled and -moderated, 22:30266
description of heterogeneous and homogeneous fast breeder, 22:16151 (INR-842/C)
description of Japanese heavy water-moderated water-cooled plutonium self-sustaining, 22:30238
description of Sweden, 23:13376
design, 21:4402(P)
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and dynamic analysis of earthquake-proof, 23:13930
design and economics of, 21:23689(P)
design and economics of 300- and 607-MW(e) superheating, 21:12142(R) (GEAP-5087)
design and operations characteristics in Germany of conceptual 1100 MW power, 23:28419
design basis accidents in, containment conditions for, 22:30121(R) (BMI-X-10229)
design calculations of heavy water moderated water cooled, UoV computer program for, 24:20641
design characteristics of, 22:3836 (NP-16983)
design characteristics of, 25:23205
design characteristics of conceptual integrated 600 MW(e) indirect cycle heavy water cooled, 23:28430
design characteristics of power, effects of plutonium recycle on, 24:33316
design data for low-powered terrestrial, 22:7814(R) (ORNL-4178)
design improvements for light and heavy water, 22:46946
design improvements in power, review of, 22:46944
design improvements since 1955, analysis of, 21:40638
design of 10,000 MWT, 21:40664
design of 1000 MW(e), 21:21635(R) (GEAP-5195)
design of 1000 MW(e), conceptual earthquake-resistant, 22:39786 (TID-24530)
design of 1000 MW(e), with prestressed concrete pressure vessel, 22:24999
design of 1500 kW(e) portable, 21:35644(R) (ORNL-4136)
design of heavy water cooled and moderated, 25:28645(P)
design of heavy water moderated power, effects of seismic criteria on, 24:20585
design of self-controlled heavy water-moderated, 23:29085(P)
design of superheat, with effective steam separation, 21:21739(P)
design of superheating, 21:7999(P)
design of water cooled power, features of ASEA—ATOM, 24:24696
design of water cooled, improvements in safety and economic features of, 24:24695
design of water cooled, with segmented core for reactor control, 21:10186(P)
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, for marine applications, 21:15750
design of, initial engineering studies for, 21:12145 (GEAP-5201)
design of, safety standards for, 22:30208
design of, use of presently existent physics measurements for future, 21:27750
design of, using prestressed concrete pressure vessel, 21:13976(R) (GEAP-5151)
design of, with floating fuel or reflector assembly, 21:4393(P)
design of, with liquid moderator, 21:2862(P)
design of, with nuclear superheat, 21:5721(P)
design parameters for 3300 MW(t), conceptual, 22:16265(R) (ANL-7403)
design parameters for 400 MW(e) heavy water-cooled, conceptual, 23:15616
design parameters for 70 MW(t) open vessel well-type, for desalination, 25:28793
design parameters for dual-purpose, 23:13418 (TID-24767)
design parameters for heavy water moderated Yugoslav power, 22:25019
design parameters for nominal 515, 762, and 1075 MWe, 22:44841 (WASH-1082)
design parameters for plutonium-fueled heavy-water-moderated light water-cooled, 22:22702 (JAERI-1151)
design parameters for superheating heavy water moderated desalination and power, analysis of optimum economic, 25:28642
design parameters for underground 1000 MW(e), conceptual, 25:31600
design parameters in Japan for advanced thermal 165 MW(e) prototype heavy water-moderated water-cooled, 23:13420
design parameters of 500 MW(e) heavy water moderated, calculation of optimum economic, 24:20543
design parameters of medium power, 25:28715
design parameters of power, 24:45894
design parameters of proposed, in Norway, 24:43608
design parameters of, analysis of optimum economic, 24:2003
design simulation for, description of BWR computational modular system for operation optimization and, 23:40333 (CONF-690401-, pp 344-65)
design using leakage neutron flux for superheating, 21:27776(P)
design with combined forced and natural coolant circulation, 21:19438(P)
design with coolant recirculation for reactivity control, 21:10185(P)
design with efficient steam removal system, 21:23687(P)
design with fissile elements for drying and superheating steam, 21:19444(P)
design with liquid moderator, 21:2857(P)
design with pressure operated fluid control system, 21:44901(P)
design with secondary water coolant vaporized and superheated in once-through operation, 21:25694(P)
development and economics of, in U. S, 21:19408
development by ASEA-ATOM, 24:47704
development during 1969, review of, 24:52858
development in Brazil of power, analysis of optimum economic, 24:3990 (IEA-142)
development in Canada of 0.5 to 30 MW(e), economics for predicted 1976 to 1980, 23:37411
development in Germany of power, review of, 25:53957 (A/CONF.49/P-806)
development in Japan of advanced thermal prototype 200 MW(e) heavy water moderated light water cooled, 23:33033
development in Japan of conceptual 165 MW(e) Advanced Thermal Reactor, review of, 23:43091
development in Japan of power, review of, 25:23234
development in Japan of water-cooled heavy water-moderated advanced thermal, review of, 23:28421
development in Sweden of 100 to 300 MW(e) heavy water moderated and water moderated, comparison of economics for, 23:37401
development in Sweden of heavy water cooled, review of, 24:24788
development in U. S., status and prospects for, 25:39206 (A/CONF.49/P-34)
development in U.K. of 200 and 300 MW(e) heavy water moderated superheating, comparison of economics for, 23:37414
development in U.S.S.R. of small and medium power, 25:28716
development of boiling, survey of, 23:13379
development of dual-purpose power—desalination, 21:46936
development of heavy water-moderated, computer programs for optimum designs in, 22:30258
development of liquid metal-cooled fast, use of EBR-I facility for, 21:19343 (ANL-7212)
development of marine propulsion, effects of operating experience and component modifications on, 23:26105
development of portable 2 to 10 MW(e), analysis optimum economic, 23:4400
development of power, review of, 22:18493
development of power, review of technical and economic, 23:13425
development of power, technical and economic aspects of, 22:18500
development of power, trends in, 25:23237
development of Swedish heavy water-moderated, 22:1807
development of water moderated power, review of, 24:13509
development of water moderated power, review of, 24:18566
development of, economic and technical aspects of, 21:7987
development of, increased system performance from, 21:21676
development of, progress review of safety projects for, 23:26059
development of, review, 21:15684
development of, review of, 24:22383
development of, review of, 24:47817
development of, summary of progress in, 21:23660
development program for Canada heavy water-moderated water-cooled natural uranium-fueled, description of, 23:2003
development program in Japan of prototype heavy water-moderated power, 23:17181
development program in Japan of water-cooled heavy water-moderated 200 MW(e) thermal, description of, 22:30243
development program in U.S.S.R. for power, review of, 23:17172
dry-out margins for superheating heavy water moderated power, analysis of optimum economic, 23:37563 (RD/B/N-1285)
dynamic behavior of natural circulation, use of digital input to analog system for simulation of, 22:35482
dynamic constants for boiling zone in, comparison between theory and measurement of, 21:46842(R) (EURAEC-1834)
dynamic effects on, analytical model and analog computer simulation of neutron and parallel flow, 23:32987 (DOCKET-50010-13)
dynamic response of, mathematical model for calculating control rod effects on, 23:40429 (CONF-690401-, pp 102-15)
dynamics analysis of ship, 21:2864(R) (KR-109)

dynamics of, computer program analysis of axial, 25: 31541 (EUR-4497)
dynamics of, linear one-dimensional one-channel model for, (E/T), 25:46336
economic analysis of, tabulated, 22:3839 (NP-16986)
economic and technical evaluation of, 23:37552 (WASH-1087)
economic aspects in Argentina, 22:3840 (NP-16988)
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economics and performance of large, 21:15699
economics of, 21:46897
economics of 1000 MW(e) earthquake-resistant, 22: 39786 (TID-24530)
economics of 1060 MW(e), effects of site location on, 23:31100 (BNWL-960)
economics of 600 MW(e) twisted tape, (T), 22:9996(R) (EUR-3651)
economics of CANDU-type, 25:54124 (A/CONF.49/P-151)
economics of further European development, 21:34121
economics of Great Britain and United States, comparison of, 22:14223
economics of power production from, 22:18479
economics of power, comparison with other common reactor types of, 25:20749
economics of, comparison with other reactor types of, 25:15240
effluents from power, decontamination systems for gaseous, 25:1902
electricity from, production of commercial, 22:12038
electricity production from, comparison with other reactor types of, 24:16090
emergency core cooling system for, computer for simulation of, 25:10238(R) (BMI-1890)
emergency core cooling system for, design requirements of, 25:34390 (NEDO-10329)
emergency core cooling system for, effects of cladding temperature and materials on performance of, (E), 24: 38562 (NEDO-10179)
emergency core cooling system for, effects of fuel rod failures on performance of, 24:33374
emergency core cooling system for, effects of fuel rod failures on heat transfer performance of, (E), 24:38557 (CONF-700608-14)
emergency core cooling system for, effects of fuel rod failures on heat transfer performance of, (E), 24:38556 (CONF-700608-6)
emergency core cooling system for, effects of fuel rod failures on design requirements of, 24:33375
emergency core cooling system for, effects on cladding swelling during coolant loss accident conditions of FLECHT, (E), 25:46267 (GEAP-13112)
emergency core cooling system for, fuel rod deformation effects on performance of spray, (E), 24:38581 (NEDG-13064)
emergency core cooling system for, post-accident effectiveness of bottom flooding, (E), 24:47868 (GEAP-10117)
emergency core cooling system in, effects on prompt fission product release of failure of, (T), 24:43783(R) (BMI-1885)
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer codes for analysis of, 23:45095(R) (BMI-1867)
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer programs for analysis of, 24:7141(R) (BMI-1871)
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer code for, 24:16211(R) (BMI-1877)
emergency core cooling system performance in, effects of fuel element swelling on, (T), 24:29034(R) (BMI-1881)
emergency core cooling system performance in, effects of Zircaloy cladding failure on spray, (E/T), 25:41464
emergency core cooling systems for, comparison of flooding and spray, 25:31579 (MRR-79)
Emergency Core Cooling Systems for, design parameters and analyses for, 23:4274 (ORNL-NSIC-24)
emergency core cooling systems for, effects of fuel rod failure on performance of spray, (E), 25:41440
emergency core cooling systems for, effects of swelling of fuel rod cladding on performance of, (E/T), 24:50128 (NEDO-10208)
emergency core cooling systems for, effects on fuel element cladding peak temperatures of, (T), 25:44140 (NEDO-10329(Suppl.1))
emergency core cooling systems for, model for heat transfer analysis of top-injected spray, 25:37036(R) (BMI-1904)
emergency core cooling systems for, performance of molybdenum filaments in heat transfer tests of, (E/T), 24:47867 (GEAP-10092)
emergency core cooling systems for, post-accident heat transfer effectiveness of spray, (E/T), 24:47869 (GEAP-13086)
emergency spray cooling system for, effectiveness of coolant-loss accident, (E/T), 23:2049
engineered safeguards of 500 MW(e) heavy water moderated, design requirements for, 24:20584
excursions in, adiabatic aproximation model for analysis of control rod drop, (T), 25:57084 (CONF-710302-(Vol.1), pp 259-81)
fabrication in Japan of, problems associated with, 22: 42280
fabrication of, description of safety aspects in, 22:30196
fabrication of, safety analysis and testing for, 22:30206
feasibility of use as power plant of 10,000 MW, 21: 40555 (GECR-5155)
fission product base in, effects of burnup on, 23: 17205(R) (BMI-1856)
fission product removal by pressure suppression pools in, effects of sodium metavanadate (NaVO$_3$) on methyl iodide, (E), 25:46279 (GEAP-13193(Add.))
flow instability in parallel channels of, effect of orifice pressure drop on, 21:8519
fluid flow stability in, SKALVAN simulation of power oscillations on two-phase, 21:40518 (AE-285)
frequency response for, analysis of noise measurements for, (E/T), 24:52860
fuel assemblies burnout in, description of four detector systems for, 23:9169
fuel assemblies for, description of enriched uranium flow tube with symmetric multi-rod, 22:25040(P)
fuel assemblies for, description of thermal-insulated multiple vertical-sheathed rod-type, 22:42258(P)
fuel assemblies for, description of vertical suspended collar braced pressure tube type, 23:23924(P)
fuel assemblies for, measurement of thermal-hydraulics characteristics with instrumented, 23:25996 (GEAP-4750)
fuel assemblies of, description of sectioned spiral baffles for parallel rod type, 23:37844(P)
fuel assemblies of, FROST computer program for kinetics of square, 23:33039 (KR-133)
fuel assembly for, description of coolant deflecting grid with peripheral flow channels in, 22:20890(P)
fuel assembly for, description of square lattice helical twist support structure for, 22:20886(P)
fuel burnout and hydraulic properties of, computer program analysis for, 21:40522 (AEEW-R-524)
fuel burnup in, methods for analysis of, 22:22737
fuel cladding rupture in, detection and location methods for, 23:17194 (CEA-R-3654)
fuel cycle costs for 880 MW(e), effects of plutonium price on, 22:53344
fuel cycle costs for, evaluation of, 21:5628 (ORNL-P-2532)
fuel cycle economics for, 21:35605
fuel cycle economics in Argentina, methods of calculation of, 22:3931 (NP-16987)
fuel cycle economics in natural uranium fueled, comparison with heavy water reactors of, 24:11127
fuel cycle economics of, 21:30110 (CNEA-183)
fuel cycle for 300 to 500 MW(e), 25:28721
fuel cycle for power, MINFUL computer program for optimum economic scatter loading management of, 23: 49665
fuel cycle for, economics of re-use, 22:42162(R) (BNWL-254)
fuel cycle management for, calculation of optimum, 25: 54085 (A/CONF.49/P-312)
fuel cycle performance for heavy water-moderated, analysis of optimum, 22:30260
fuel cycles economics for, effects of burnup on, 23: 28384
fuel cycles for, use of thoria—urania, 21:2835
fuel development for, analysis of plutonium, 21:19347 (BNWL-SA-926)
fuel element assemblies for power, RAHDT computer program for radiation heat transfer in bundle type, 24: 47881(R) (IN-1320)
fuel element assemblies for water cooled, critical heat flux in simulated 16-rod, (E), 23:52345
fuel element assemblies for, analysis of two phase coolant flow pressure drop in bundle arranged rod type, 25: 41429
fuel element assemblies for, COLIBRI code for subchannel thermal performance analysis in, (E/T), 25:37003 (CONF-710317-1)
fuel element assemblies for, description of pencil type, 25:23288(P)
fuel element assemblies for, design of pressure tube, 21: 44905(P)
fuel element assemblies for, method of increasing burnout heat flux in, 21:43189(P)
fuel element assemblies for, uses of Monte Carlo programs for evaluating neutronics characteristics of, 23:15732 (ANS-RPD-1, Paper 4A)
fuel element assemblies of, effects of configuration on coolant crossflow mixing in 19 rod bundle, (E/T), 23: 31168 (RT/ING-(69)2)
fuel element burnout simulation for, critical heat flux measurements on, 21:17443 (EURAEC-1610)
fuel element cladding failure in, effects of oxygen dissolution on Zircaloy, (E/T), 23:45095(R) (BMI-1867)
fuel element cladding for advanced, testing Zircaloy-2 and -4, 23:22460 (BAW-3765-7)
fuel element cladding for, design criteria for fission product retention by, 22:27492
fuel element cladding for, development of zirconium , alloy, 21:1917 (BNWL-SA-672)
fuel element cladding for, effects of coolant loss on swelling of, 24:16211(R) (BMI-1877)
fuel element cladding for, effects of coolant loss on swelling of, (T), 24:29034(R) (BMI-1881)
fuel element cladding for, effects of coolant loss on swelling of, 24:7141(R) (BMI-1871)
fuel element cladding of, effects of coolant loss accident conditions on swelling and failure of Zircaloy, (E), 25: 46267 (GEAP-13112)
fuel element cladding swelling during coolant loss accidents, heat transfer and metal creep model for, 23: 45095(R) (BMI-1867)
fuel element clusters for 600 MW(e), fabrication and testing of twisted tape, 22:9996(R) (EUR-3651)
fuel element configuration for, description of flow tube spray and seal device in, 22:20889(P)
fuel element cycle management in Japan for, development of economic, 24:36035
fuel element fabrication for, description of improved processes for, 23:4222
fuel element failure in, effects of coolant flow blockage on propagation of, (T), 23:45095(R) (BMI-1867)
fuel element fibrations in, effects of turbulent fluid flow on, (E/T), 23:47201 (AECL-3371)
fuel element flow tube in, cooling system spray device for, 22:20889(P)
fuel element for, with means for flooding prevention from core spray cooling system, 23:40371(P)
fuel element heat transfer improvement in, by fins and undulated coolant channel walls, 21:38623(P)
fuel element in, analysis of burnup of Zircaloy-clad uranium oxide (UO$_2$), 22:32894
fuel element management in heavy water moderated power, ROTOR computer program for optimum, 24: 20570
fuel element minimum critical heat-flux ratio calculation for, 21:40636
fuel element performance in, tabular summary of, 22: 44841 (WASH-1082)
fuel element spacers for, description of right angle four point leaf spring and stop, 23:21498(P)
fuel element surface temperature calculations in superheating, 21:27734
fuel elements for Canadian, performance of zirconium-clad uranium oxide (UO$_2$), 22:42155 (AECL-3068)
fuel elements for Canadian, use of uranium oxides (UO$_2$) in, 22:3808 (AECL-2928)
fuel elements for heavy and light water cooled, heat transfer and hydrodynamic performance of, 24:22410
fuel elements for superheating and, mathematical simulation of double-side-cooled tubular, (T), 23:9168
fuel elements for, analysis of field testing requirements for, 25:54098 (NEDO-10017)
fuel elements for, analysis of mechanical and physical properties of, 22:35461 (GEMP-482)
fuel elements for, description of, 22:20953(P)
fuel elements for, description of cluster arranged pin type uranium oxide (UO$_2$), 24:26785(P)
fuel elements for, description of gas insulated tube type, 23:45088(P)
fuel elements for, description of vortex-flow liquid-cooled helical-ribbed cylindrical, 22:25121(P)
fuel elements for, design and performance of Zircaloy clad uranium oxide (UO$_2$), 25:23289
fuel elements for, design criteria for optimum economic power density in, 23:28491
fuel elements for, design parameters and irradiation testing of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) rod type, (E), 25:23285(R) (NEDC-12152)
fuel elements for, effects of coolant loss accident conditions on Zircaloy-2 clad, (E), 25:37038 (IN-1453)
fuel elements for, effects of coolant loss conditions on swelling of, (E), 25:41468
fuel elements for, effects of coolant loss conditions on failure modes of Zircaloy 2 clad rod, 23:26048 (ORNL-TM-2548)
fuel elements for, effects of coolant loss conditions on temperature and performance of Zircaloy clad, (E), 25: 48285 (GEAP-13174)
fuel elements for, effects of emergency core cooling conditions on failure of, (E), 25:41466
fuel elements for, effects of geometry on thermodynamics for, 22:3825(R) (EURAEC-1899)
fuel elements for, effects of steam quality, mass flow rate, and rod diameter on burnout heat flux for, 23: 32990(R) (DOCKET-50010-16)
fuel elements for, enthalpy imbalance analysis for dryout performance of bundle arranged rod type, (E/T), 25: 51081 (AECL-3968)
fuel elements for, evaluation of purchase options and warranties for supply of, 23:28384
fuel elements for, fabrication of uranium silicide, 22: 43642(P)
fuel elements for, k/sub infinity/ and local power distribution of, (E/T), 22:44839 (UNC-5195)
fuel elements for, lateral vibration characteristics of, (E), 25:20740
fuel elements for, measurement of post-dryout heat transfer characteristics of bundle type, (E/T), 25:3865 (AECL-3414)
fuel elements for, mechanical and thermodynamic tests on, (E/T), 25:25979
fuel elements for, Monte Carlo calculation of resonance escape probability in uranium and uranium oxide, 22: 32989
fuel elements for, natural circulation cooling of, (E), 25: 37009 (UARAEE-110)
fuel elements for, performance data for, 22:46938
fuel elements for, performance of, 21:35604
fuel elements for, performance of plutonium recycle, (E), 25:15365(R) (NEDC-12111)
fuel elements for, power density increase using twisted tapes inside, 22:12045
fuel elements for, power distributions and reactivity worth of rod type uranium oxide (UO$_2$) and plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), (E/T), 24: 43857(R) (BNWL-1442)
fuel elements for, power limit tests on, 23:32990(R) (DOCKET-50010-16)
fuel elements for, reference design parameters for, 22: 44841 (WASH-1082)
fuel elements for, use of plutonium in, 22:6021
fuel elements for, use of ROBOT computer program for determining effects of bowing of, 23:40366 (CONF-690401-, pp 611-30)
fuel elements from, relation between burnup and uranium-236/uranium-238 ratio in, (E), 25:21321
fuel elements of power, effects of power bursts on failure of low burnup Zircaloy 2 clad uranium oxide (UO$_2$) rod, (E), 25:51090 (IN-ITR-113)
fuel elements of power, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO$_2$) pellet and powder, (E), 25:51085 (IDO-ITR-103)
fuel elements of power, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO$_2$) rod, (E), 25: 51089 (IN-ITR-112)
fuel elements of power, effects of power bursts on failure of Zircaloy 2 clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pellets, (E), 25:51093 (IN-ITR-117)
fuel elements of power, radiation hazards for, 25:3894
fuel elements of water cooled, fission product release and detection of failed Zircaloy 2 clad uranium oxide (UO$_2$) rod, 25:57047 (JAERI-Memo-4157, pp 2-22)
fuel elements of, errors in γ spectroscopy methods for burnup calculations of rod type, 24:36036

fuel elements, fission product releases to coolant and off-gas from leaks in, (T), 25:48295
fuel fabrication in Japan for, 24:36035
fuel for, economic and technical aspects of plutonium, 21:7945
fuel management for, calculation of optimum cycles for, (E/T), 22:22777
fuel management for, dynamic programming algorithm analysis of economic optimum, 23:4253
fuel management in, accelerated exhaustive search algorithm for optimization of, 24:18680
fuel materials for, summary of properties and performance of, 23:11174
fuel pellets for, performance of Zircaloy-2-clad uranium dioxide, 24:36969 (NEDO-10173)
fuel performance in, experience of clad ceramic, 21:12183
fuel pins for, maximum power density for vapor transport type, (T), 25:44122 (N-71-17463)
fuel recycle for power, effects of uranium-236 content on economics of, 23:37420
fuel recycle in power, demonstration program for plutonium, 23:37539
fuel requirements for, in Japan, 1975 to 1990, 21:21668
fuel rod arrays for, dose rates from high exposure plutonium containing, (E), 24:26835(R) (BNWL-1358)
fuel rod bundle stability in, 21:7962
fuel rod fabrication costs for, RODCOST computer program for uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:44809 (BNWL-789)
fuel rod vibration characteristics in water cooled, (E), 24:33304
fuel rods for, characteristics of zoned uranium dioxide—plutonium dioxide recycle, 22:6016
fuel storage pool for, effects of tornado damage on spent, (E/T), 23:43129 (APED-5696)
fuel substitutions in, evaluation of plutonium, 21:30149 (JAERI-1123)
fuel temperature distribution in 3300 MW(t), measurement of axial, 22:37402 (ANL-7450, pp 75-89)
fuel transfer in tandem 400 MW(e), design and performance of, 21:42776
fuel utilization in, process computers for optimization of, 22:48680
fuels and cladding materials for, radiation effects on, 21:38519
fuels for power, economics of plutonium, 24:11141
fuels for water cooled, utilization of plutonium in, 24:24840
fuels for, anticipated demand for, 21:8126 (ORNL-P-2535)
fuels for, calculations for use of plutonia—urania, 21:40541(R) (BNWL-492)
fuels for, development status of, 21:8138
fuels for, economics of plutonium, 22:6024
fuels for, economics of plutonium-enriched, 21:5622 (NUS-259)
fuels for, fabrication and performance of uranium dioxide as, 23:10270 (ORNL-TM-2357)
fuels for, proposed performance test code for, 22:28885
fuels for, two-dimensional method for burnup analysis of, 25:18111
heat exchangers for, description of removable integrated, 24:52911(P)
heat exchangers leak control method for dual-purpose, 21:21750 (ACNP-65568)
heat flux in, method for increasing, 23:13918(P)
heat flux in, method of predicting critical, 21:17436 (APED-5286)
heat transfer and two-phase fluid flow in, analysis of, 21:30610 (EUR-3459.e)
heat transfer and two-phase fluid flow in, review of developments in, 21:16066
heat transfer characteristics of CANDU type, (E/T), 25:1865 (AECL-3691)
heat transfer coefficient calculations for, 22:1753(R) (BMI-1815)
heat transfer in fuel channels of, design and operation of test loop for studying two-phase, 25:34793 (UARAEE-81)
heat transfer in simulated natural circulation, 21:41129
heat transfer in two-phase gas-liquid, effects of two-phase gas-liquid flow in vertical pipes on, (T), 22:14299
heat transfer in, MOXY computer program for X-Y, 23:17189 (IDO-17283)
heat transfer in, nucleate boiling conditions for, 21:30084 (AECL-2876)
heat transfer measurements for, 21:46842(R) (EURAEC-1834)
heat transfer system for power, description of high- and low-pressure turbine circuits with external superheating, 22:37466(P)
heat transfer systems in, reliability of emergency, 21:15729
hydraulics of, REPP computer program for thermal, 23:26027 (BNWL-1013)
hydrodynamics of power, stability analysis for, 24:13524(T) (ORNL-tr-2244)
hydrodynamics of, design problems for, 25:60065
hydrodynamics of, non-linear digital computer program for transient, 23:23877
hydrodynamics of, simulation of, (T), 25:57022 (MRR-73)
inspection of, access requirements and design provisions for in-service, 23:47208 (APED-5450)
instrumentation for physics measurements in Marviken heavy water, in-core, 21:27772
instrumentation for, response to flow control of average power range, 23:13444 (APED-5706)
instrumentation for, summary of in-core hydraulic and thermodynamic, 22:48662
instrumentation in, analysis of functional common mode failures in control and protection, 25:1899 (NEDO-10189)
instrumentation system for, use of in-core neutron flux, 21:27771
instrumentation systems for power, design comparisons of protection, 24:22374
instrumentation systems for, logic diagrams for in-core, 23:13444 (APED-5706)
iodine-131 release to atmosphere during operation of, programs for monitoring, 25:42388
jet pumps for cooling system of, design and performance of, 23:33047 (APED-5460)
kinetics calculations for, comparison of point and spatial, 24:29034(R) (BMI-1881)
kinetics equations for, finite difference method for solution of multigroup space-time, 23:45095(R) (BMI-1867)
kinetics equations for, modifications in ADEP code for spatial, 24:16211(R) (BMI-1877)
kinetics equations for, modifications in ADEP-1 and ADEP-2 computer programs for one and two dimensional, 24:7141(R) (BMI-1871)
kinetics of 200-MW(t), adiabatic model calculations of space-time, 21:23656
kinetics of large power, methods of analysis and experimental results for, 24:16156 (BNL-50117, pp 1-36)
kinetics of, model of space-dependent, 21:10161
kinetics of, review of elemental, 21:19385 (RISO-128)
lattice array in, homogenization of three-dimensional heterogeneous, 23:49662
legal aspects in Argentina, 22:3840 (NP-16988)
license applications for power, review of USAEC required supplementary information during, 23:26009
licensing of, analysis of types of supplementary material to preliminary safety analysis report required for, 23:4154
load frequency control in water cooled, effects of twin turbines on, 24:24780
loading machine for, description of variable position end-to-end, 24:24844(P)
loading machine of heavy water moderated power, design requirements for, 24:20571
loading of plutonium-fueled, procedures and configuration for optimum, 23:2130 (BNWL-SA-2065)
lubrication problems in, 23:35437
materials for, properties of, 24:7375
mockup of tube-type, use of on-line computer for continuous data processing from dynamic measurements in, 23:11299 (RCN-98, pp 381-95)
moderator and reflector materials for, summary of properties and performance of, 23:11174
neutron cross sections for, combined MC^2 and THERMOS computer programs for thermal and epithermal, 23:47332 (CNM-R-2(Vol.3), pp 1446-59)
neutron distributions in nonuniform lattice, transport solutions for two-dimensional multigroup thermal, 23:4188
neutron flux calculations for, description of one-dimensional two-group code for, 22:50763
neutron flux distribution in, design and testing of in-core ionization chamber for, 25:8061
neutron flux distribution in, method for flattening, 21:15724(P)
neutron flux in concentric annular lattice cells of, three dimensional multigroup P/sub L/ variable parameter calculation of, (T), 23:24003
neutron flux monitoring system for, description of in-core, 24:40940
neutron flux profile analysis in, BOLERA code for, 22:18588 (RT/FI-(67)28)
neutron monitoring system for, detailed description of in-core, 23:13444 (APED-5706)
neutron multiplication factors for, description of one-dimensional two-group code for determination of effective, 22:50763
neutron multiplication factors in, effects of temperature and density on effective, 23:37467
noise in, determination of power spectrum from, (T), 24:47951 (CONF-680980-, pp 197-210)
off-gas system for power, description of burner flame arrester for, 24:50132(P)
off-gas system for, catalytic recombiner for, 22:42674
operating aspects of heavy water moderated, analysis of load following, 25:53942 (A/CONF.49/P-479)
operation economics and efficiency, 21:44884
operation economics of 200 MW(e) dual-purpose desalination heavy water-moderated, design of, 22:12082
operation of AEG-type power, analysis of optimum economic and technical, 22:48696
operation of power, physics measurements for optimum, 24:18676 (NP-18157)
operation of, economics for, 24:49997
operation of, procedures for startup and long-term, 24:45894
operation of, reactivity oscillations analysis for stability, 22:35537
operation of, use of Haling principle for power distribution control during, 24:7031
operator training for power, use of simulator for, 23:28395
operator training for, description of GE-Dresden, 22:37499
operators for, experience with General Electric simulator for training, 24:18526
oxygen concentrations in, use of ammonia to reduce, 21:20469
performance characteristics of heavy water-moderated power, evaluation of, 23:15613
performance of heavy water moderated, with natural uranium or plutonium-enriched natural uranium fuel cycles, (T), 25:8081(T) (NSJ-tr-162)
performance of heavy water pressure tube type, effects of water coolant on, (T), 25:10205
performance of power, analysis of load following, 25:34332
performance of power, detailed analyses of stability and dynamic, 23:47092 (APED-5652)
performance of U. S., analysis to year 2000 of thermal, 22:37469
performance of water cooled, physics and dynamics calculation methods for, 24:40906 (AEEW-R-691)
performance parameters for dual-purpose, effects of brine heater leakage on, 22:32955
performance parameters of 600 MW(e) twisted tape, (T), 22:9996(R) (EUR-3651)
personnel for power, use of simulator for training operator, 24:50134
physics characteristics of heavy water moderated pressure tube, 25:18126
physics characteristics of operating, description of methods for measuring, 24:7024
physics characteristics of plutonium enriched cores in, (E/T), 24:47820 (BNWL-1379)
physics measurements for heavy-water-moderated plutonium-enriched natural uranium-fueled superheating, 22:30239
physics measurements for non-uniform lattices of, review of, (E/T), 22:22768
physics measurements for, use of OCF critical assembly for, 23:11307
physics parameters for, effects of use of plutonium fuel on, 22:22658 (BNWL-475)
physics parameters of, heterogeneous method for calculation of, 25:57168 (CONF-710302-(Vol.2), pp 920-38)
pipes for, effects of environment on fatigue of type 304 stainless steel, 22:2610(R) (GEAP-5512)
piping for Japanese, design and fabrication of field, 22:32851
power conversion system for, design modifications of, 25:5885
power conversion system of power, radiation induced activation hazards for, 25:3894
power distribution in large, effects of transients in spatial distribution of xenon on, (T), 23:28443
power distribution in, coarse-mesh three-dimensional diffusion method for calculation of gross, 25:23262
power excursion and blowdown analysis for, RELAP2 computer program for, 22:39773 (IDO-17263)
power oscillations in, harmonic linearization analysis of, 21:8111
power output from, use of twisted-tape fuels for increased, 22:25001
power output of, analysis of optimum reactor response for varying, 22:35536
power peaking factors for, tabular summary of, 22:44841 (WASH-1082)
power plant parameters of, trends of, 21:27704
power production and desalination using, economics of, 22:48661
power production efficiency of, economic comparison with coal-fired and PWR plants, 21:13980 (NP-16276)
power supplies for, reliability of auxiliary emergency, 21:15729
power supply system for, design for emergency, 22:18484
pressure loss incidents in, use of glass vessel models for simulation in, 24:9135
pressure suppression pools for, efficiency of, 22:46912 (ORNL-NSIC-25)
pressure suppression system for, description of overhead suppression pond and air space for, 23:28495(P)
pressure suppression system for, description of overhead suppression pond and air space for non-gaseous production in, 23:28493(P)
pressure tubes for, crack opening displacement method for prediction of failure of zirconium, 23:30021
pressure vessel for 1000 MW(e), design of prestressed concrete, 21:17444(R) (EURAEC-1688)
pressure vessel for 1000 MW(e), design of prestressed concrete, 21:34103(R) (EURAEC-1789)
pressure vessel for 1000 MW(e), design of prestressed concrete, 21:17441(R) (EURAEC-1553)
pressure vessel for 750 MW, test model development in Sweden for prestressed concrete, 25:31548 (EUR-4531, pp 507-16)
pressure vessel for conceptual 1000 MW(e), optimization of design of prestressed concrete, 22:25009
pressure vessel for, performance of low-alloy steel and austenitic stainless steels in, 24:18641
pressure vessel for, safety concept for development of prestressed concrete, 24:9097
pressure vessel for, thermal insulation for walls of prestressed concrete, 24:36093(P)
pressure vessels for 1000 MW(e), design and cost data for prestressed concrete, 24:16182 (EUR-4280(Vol.1), pp 393-416)
pressure vessels for 1000 MW(e), design and development of prestressed concrete, 21:21635(R) (GEAP-5195)
pressure vessels for 600 MW(e), design and performance of prestressed concrete, 25:31551 (EUR-4531, pp 615-45)
pressure vessels for heavy water moderated power, temperature distribution in prestressed concrete, 25:60080
pressure vessels for heavy water moderated power, thermal stress limits for prestressed concrete, 25:60081
pressure vessels for large power, design and analysis of control rod drive penetrations in, 23:47188 (APED-5703)
pressure vessels for power, design characteristics of metal foil thermal insulation of prestressed concrete, 23:28472
pressure vessels for power, techniques for site assembly of steel, 23:15627
pressure vessels for water cooled, effect of design basis accident on brittle fracture of, (T), 24:11210 (NEDO-10029)
pressure vessels for, cost and performance of prestressed concrete, 21:13974(R) (GEAP-5086)
pressure vessels for, description of teflon discs and glass fiber seal for lead wire penetrations in, 23:47206(P)
pressure vessels for, description thermal-insulated water-cooled concrete, 22:37495(P)

pressure vessels for, design of prestressed concrete, 22:19004 (EURAEC-1943)
pressure vessels for, development of prestressed concrete, 25:54070 (A/CONF.49/P-307)
pressure vessels for, effects of thickness on fracture characteristics of steel, 25:60075
pressure vessels for, elastic and plastic methods of crack analysis for, 22:39892 (AD-663882)
pressure vessels for, fast neutron effects on Type A533B steel, 23:22581 (APED-5490)
pressure vessels for, in-service inspection requirements of, 25:39245 (CONF-710512-5)
pressure vessels for, materials properties and design requirements for steel, 25:10197
pressure vessels for, performance of prestressed concrete, 21:15654(R) (GEAP-4969)
pressure vessels for, radiation damage effects on design of, 21:46969
pressure vessels for, stress analysis of Type A302-B steel for, 23:24361
pressure vessels for, use of prestressed concrete, 21:31935(R) (GEAP-5282)
pressure vessels of heavy water moderated power, analysis of thermal stresses in prestressed concrete, 24:26762
pressure vessels of heavy water moderated power, calculation of temperature distribution in one wall prestressed concrete, (T), 24:26758
pressure vessels of heavy water moderated power, effects of design parameters on temperature distribution in concrete, 24:26759
pressure-vessel rupture in, analysis of fission-product iodine release from, 21:27665(R) (BMI-1797)
protection system for water cooled, Common Mode Failure analysis of, 24:40942
protection systems for General Electric, compliance to industry criteria of, 24:38394 (NEDO-10139)
pumps for power, flow characteristics for, 25:57009
pumps for power, flow characteristics for, 25:57039
pumps for, description of multiple reverse flow nozzle jet, 23:28464(P)
pumps for, description of pressure vessel contained multiple jet, 23:23903(P)
pumps for, description of replaceable movable nozzles for back flow-preventing jet, 22:44845(P)
pumps for, design problems for primary, 25:57038
pumps for, efficiency and performance of jet coolant, 23:13931
pumps for, optimum performance limits for jet, 25:57037
radioactive effluents from power, distribution of and dose rates from, 25:56979
radioactive effluents from power, monitoring requirements and dose limits for, 24:45991
radioactive effluents from power, release rates for, 25:6080
radioactive effluents from, design of control systems for, 24:46074
radioactive effluents from, review of procedures for control of, 24:45910 (CONF-700810-23)
radioactive emissions from power, comparison of fossil fuel plant with, 24:20541
radioactive waste disposal systems for, 25:23205
radioactive waste from, processing and shipping of solid, 25:48834 (CONF-710801-(Vol.1), pp 478-89)
radioactive waste of power, procedures for high concentration of low-level liquid, 24:31037
radioactive waste water from KRB, processing of, 24:7490
radioactivity from corrosion product buildup in, safety procedures for emergency operations caused by, 23:15668
reactivity calculations for, use of computer code ANDREA for, 21:21741
reactivity calculations in light water moderated lattice cells, using LATREP, POOOF, and METHUSELAH II codes, 21:21622 (AECL-2649)
reactivity excursion characteristics of, description and classification of, 23:47222 (APED-5528)
reactivity excursions in power, analysis of potential, 23:31183 (CONF-650681-1)
reactivity excursions in, effects of fuel element rupture on analysis of, 22:5981
reactivity of, boiling moderator system for stabilizing, 25:34330(P)
reactivity oscillations in natural circulation, simulation of, (E/T), 23:33044
reactivity transients in large power, methods for analysis of hypothetical superprompt critical, 23:47219 (APED-5448)
reactivity transients in, detailed quantitative description of, 23:47221 (APED-5455)
reactivity transients in, energy release for, 24:33404
reactivity transients in, RAMONA 1 computer program for, 23:43096 (KR-135)
recombiner for, performance of dish-shaped aluminum oxide-supported palladium catalyst, (E/T), 23:7388
regression analysis for U.S, 22:16169
safety analysis and testing for, description of, 22:30206
safety aspects of, 22:25017
safety aspects of dual purpose, for industrial electricity and steam production, 24:4113
safety evaluation for power, systems approach to, 25:8043
safety evaluation methods for, state-of-the-art review of, 25:51139 (NP-18987)
safety instrumentation for German power, development of, 23:28449
safety of desalination, analysis of leakage in brine heater, operation, 22:30289 (ORNL-TM-2049)
safety of, summary of research and development May—June 1968 on, 22:22752
safety system for water-cooled, reliability of Dual Bus Reactor Protection System as, (T), 22:24931 (APED-5179)
safety systems for, analysis of engineered, 22:32859
safety systems for, analysis of failures in, 22:30207
safety systems for, reliability factors for, (T), 25:1898 (MRR-57)
separator for, description of multi-stage vapor and water vertical rotating guide blade, 22:7872(P)
separators for direct cycle, calculation of optimum design parameters for downflow cyclone, 23:52334(R) (EURAEC-2104)
shutdown instrumentation for power, analyses of testability and circuit or component failures in, 24:3992 (ORNL-NSIC-29)
shutdown safety system for heavy water-moderated, description of pipe-connected moderator tank for steam condensation, 22:30276(P)
shutdown system for heavy water-cooled and -moderated, description of valve-regulated heavy water-heating pressure-suppressing, 23:6015(P)
shutdown system for, description of valve release water supply, 22:14213(P)
shutdown system for, optimum test intervals for, (T), 24:47841
shutdown system of power, safety analysis of transients during failure of, 25:54160 (NEDO-10349)
shutdown systems for, availability and reliability analysis of, 25:6036 (RISO-214, pp 41-55)
simulation of 800 MW(e), training schedule and operation procedures for digital computer real-time, 23:47344
simulation of heavy-water, using BRENDA code, 21:21646 (RISO-129)
simulation of power, use of GE/PAC 4020 process digital computer for personnel training, 23:45150
simulation of, hybrid computer for real time, 25:60218
simulator for power, performance of analog computer, 25:3933
simulator for, operation of personnel training, 25:6209
simulators for pressure-tube, description of analog iterative model of coolant density in channels for, 22:20820 (RT/ING-(67)16)
stability analyses for, effects of void distribution and core dimensions on three-dimensional spatial, 23:28444
stability analysis for, 21:34102(R) (EURAEC-1786)
stability experiments for, 21:5613(R) (EURAEC-1698)
stability of 250 MW(e) prototype CANDU—BLW, design criteria for, 24:16161 (BNL-50117, pp 365-79)
stability of large, coupled core model for analysis of, 24:47955 (CONF-680980-, pp 351-61)
stability of natural-circulating water, digital computer program for hydrodynamic, 21:44885
stability of power, Nyquist criteria for, 24:13524(T) (ORNL-tr-2244)
stability of water-cooled heavy water-moderated, analog simulation of hydraulic and nuclear, 22:20777 (BNWL-574)
stability of, analysis of thermohydraulic, (E/T), 22:30147 (EURAEC-1984)
stability of, effect of external high frequency signal on, 21:5641
stability of, effects of feedback on, 22:25018
stability of, effects of operating conditions on, 21:7874(R) (GEAP-3898)
stability of, effects of self-oscillation conditions on, (T), 25:60037
stability of, effects of subcooled boiling on, (E), 21:7917
stability of, effects of void fractions on coolant flow and power, (E/T), 24:4049 (EURAEC-2092)
stability of, linear one-dimensional one-channel model for, (E/T), 25:46336
stability of, measurement of stationary local steam bubble component and frequency response for testing of, (E/T), 22:7801 (EURAEC-1917)
stability of, model for analysis of, (E/T), 24:50092
stability of, models of hydrodynamic, 21:7897(R) (STL-372-30)
stability of, out-of-pile loop study of hydrodynamic, 21:13951 (CEA-R-2884)
stability of, two-phase flow hydrodynamics equations for determining xenon, 23:37465
stability of, XBWR code analysis of xenon oscillation effects on, 25:34422 (EUR-4603)
stability testing of, effects of flow oscillations on, 22:20811(R) (EURAEC-1964)
startup of 1000 MW, procedures for black-plant, 23:19507
startup of 300 to 500 MW(e), technical aspects of, 25:28721
steam condensate treatment systems for, 25:18145
steam condensers for, automated air ejectors for, 24:16102
steam generation in, design of boiler for, 21:43124(P)
steam line failure in, safety analysis of systems response to, (E/T), 24:11211 (NEDO-10045)
steam line isolation valves for power, safety aspects of Y-pattern globe type, 23:21500
steam line isolation valves for, reliability analysis of, 25:6040 (RISO-214, pp 247-53)
steam line rupture in, guide for evaluation of radiological consequences from, 25:31526 (TID-25697)
steam line rupture in, theoretical analysis of, 21:27724
steam lines for large power, performance under coolant loss accident conditions, 23:47094 (APED-5750)
steam lines for, production of isolation valve for, 24:16099
steam separation for, studies on cyclone, 21:21633(R) (EURAEC-1734)
steam separation in, design of radial vane separator for mechanical, 21:30589 (GEAP-5283(Vol.1))
steam separation in, development of gravity-type cyclones for, 22:3826(R) (EURAEC-1900)
steam separation in, stand for testing cyclones for, 24:13542(R) (EURAEC-2128)
steam separator for 600 MW(e), calculation of optimum design parameters for downflow cyclone-type, 23:17238(R) (EURAEC-2048)
steam separator for, design and testing of radial vane, 22:30150(R) (GEAP-5597)
steam separator for, design of, 23:38152(P)
steam separator for, performance of cyclone, 21:30588(R) (EURAEC-1787)
steam separator performance for, evaluation of radial vane, 21:39087
steam separators for, description of variable speed centrifugal, 22:20875(P)
steam separators for, design data for, 22:25013
steam separators for, design parameters and performance of, 24:43748
steam separators for, fundamental vibration frequency of radial vane internal, (E/T), 24:52883 (ANL-7685, pp 335-43)
steam separators for, optimum design parameters for downflow cyclone, 23:23895(R) (EURAEC-2062)
steam systems for, design for moisture separator—reheaters for, 24:18534
steam systems for, method of condensate treatment in, 22:24983
steam temperature calculations in superheating, 21:27734
steam treating system for, description of attachment mechanism for removable overhead, 24:50178(P)
steam void fraction measurements in, solenoid-type and digital-type void meters for in-core, 23:2696(T) (NSJ-tr-135)
structural materials for, summary of properties and performance of, 23:11174
systems for, detailed descriptions of, 22:44841 (WASH-1082)
thermodynamics of 500 MW(e) heavy water, 25:15344
transfer function determination for, from noise analysis, (T), 22:14291 (CEA-R-3327)
transfer functions for, thermal and hydrodynamic, (E/T), 25:60038
transients from imposed time variations in core dynamics in, CIRE code for analysis of, 22:16314 (EUR-3665)
transients in, model for dynamic analysis of flow, 22:12028 (KR-121)
tritium production in, sources and levels of, 25:41471
turbine for, health physics aspects of inspection and maintenance of, 25:25897 (BARC-524)
turbine speed control system for, design of load-following, 25:51059(P)
turbines for power, design problems for optimum saturated-steam, 23:19518
turbines for water cooled, trends in design of, 24:24779 (CONF-690549)
uranium requirements in Czechoslovakia from, 23:11166(T) (KFK-tr-274)
use as marine power plants, adaptation of space system for, 21:42788
use by AEG of, reasons for, 21:35596
use for desalting, extrapolation of existing models for, 21:23705(R) (ORNL-4087)
use in unattended terrestrial automated power system design, 21:38581
use of stainless steels in Japanese power, description of, 22:32850
valve design for, 25:54842
valves for, design of steam line isolation, 23:47094 (APED-5750)
waste disposal system for, 23:13973
water technology in, 24:36207 (ORNL-4586, pp 67-86)
xenon dynamic behavior in large, analysis of three-dimensional zonal control system for, 24:7099
xenon effects in, analysis of nonlinear, 23:4191
xenon oscillations in, analysis of load following effects on spatial, 23:13441 (APED-5640)
xenon oscillations in, three-dimensional analysis of spatial, 23:28444

REACTORS, BREEDER
    see also BN-350 Reactor
    see also BN-600 Reactor
    see also BOR-60 Reactor
    see also Cadarache Reactors (Rapsodie)
    see also Dounreay Fast Reactor
    see also Experimental Breeder Reactor
    see also Fermi Fast Breeder Reactor
    see also Hanford Dual-Purpose Reactor
    see also Indian Point Power Reactor, Unit 1
    see also Japanese Experimental Fast Reactor
    see also Liquid Metal Fast Breeder Reactor
    see also Pressurized Heavy Water Reactor
    see also PRO Reactor
    see also Spectral Shift Control Reactor
    see also ZEBRA
  accident analysis for large fast, relationship of double containment and aerosol behavior to, 22:7805 (EURFNR-425)
  accident in fast, analysis of energy release for maximum hypothetical, (T), 24:43790 (JAERI-1188)
  accidents in fast power, Bethe—Tait model analysis of severe, 24:29037 (KFK-1057)
  accidents in fast, analysis of aerosol release for, 25:31617
  accidents in fast, Bethe—Tait model analysis of severe, 24:47879(T) (EURFNR-748)
  accidents in fast, properties of plutonium—uranium aerosols produced in, 23:29017
  accidents in liquid sodium cooled fast, analysis of sodium combustion, 25:31568(T) (EURFNR-823)
  accidents in liquid sodium cooled fast, analysis of aerosol release for, 25:31618
  accidents in liquid sodium-cooled fast, plutonium oxide (PuO_2)—sodium—uranium oxide (UO_2) aerosol behavior simulation for, 22:53262 (BNL-12757)
  accidents in sodium-cooled fast, properties of aerosols produced in, 23:29018
  accidents in, review of U.S. safety programs on, 25:60132
  bibliography on fast, 1966 to 1969, 25:15340 (NEIC-RR-41)
  blanket management scheme for fast, development of optimum, 23:28500
  blanket material for, compaction process for fabrication of, 21:13249(P)

blanket optimization for sodium-cooled fast, radial, 21:30209
blanket optimization of 1000 MW(e) steam-cooled fast, alteration of 26-group-ABN-set for few-energy-group, (T), 22:44864
blankets for fluid-fueled, analysis of optimum economics for sodium—uranium nitride (UN) paste-type, 23:13501 (ANL-7475)
blowers for steam-cooled fast power, design criteria for optimum steam, 23:17197
boiler development for LMFBR-type, analysis of optimum recirculating and once-through, 23:2062
boiler for superheating fast power, performance of spray type, 23:28480
boilers for fast, development in Japan of liquid metal heated, 25:18133
boilers for liquid sodium cooled fast power, design and construction of high power test loop for, 24:52954
boilers for liquid sodium cooled fast, development of module type, 25:23326
boilers for prototype liquid metal cooled fast, development in Japan of, 24:52897
book: Economic Strategy for Developing Nuclear Breeder Reactors, 24:31083
book: Fast Reactor Technology: Plant Design, 21:17506
breeder material growth laws for, plutonium, 21:2832
breeding characteristics of graphite-moderated high-temperature thorium spherical pile-type, GAPS computer program calculations for optimum, 23:2009(T) (N-68-30369)
breeding coefficient for, variations with neutron flux of, 21:14008
breeding cycle of high temperature, minimum doubling time calculation for, 21:46857 (JUL-474-RG)
breeding gain in, comparison of thorium-232 to uranium-233 and uranium-238 to plutonium-239, 21:44872
breeding rates in cylindrical, effects of excess reactivity and depth of control rod insertion on, (T), 22:44815(T) (EURFNR-502)
breeding ratio in, definition and evaluation of, 24:7278
breeding ratio of fast, algorithm for optimization of, 23:52326(T) (JPRS-48331, pp 456-60)
breeding ratio of light water, effects of neutron resonance overlap of uranium-233 and protactinium-233 on, 24:33330
burnup performance of fast power, analysis of fuel cycle management for optimum, 22:53291
cesium carbide formation in graphite in, 21:21918 (ORNL-4076, pp 1-54)
chemical research and development for molten-salt, 21:30163 (ORNL-TM-1853)
cladding tubes for fast, production of Type 316 stainless steel, 25:35305
component design for experimental fused-salt, 21:30165 (ORNL-TM-1855)
component development for fast, 21:7943
components development for advanced, 21:38454 (GAMD-7867)
components for conceptual 500 MW(e) liquid sodium-cooled fast, 23:19465 (NP-17784)
components for fast, design requirements in Japan for, 25:18113
components for prototype liquid sodium cooled fast, development problems in Japan with, 25:18115
components for, electron beam welding of, 21:11197 (KFK-404)
components of fast, testing programs for, 23:13519(R) (AI-AEC-12721)
components of LMFBR-type, effects of heat capacities and time delays on thermal transient requirements for, 23:4282
conrol rod for steam cooled fast, description of ejection preventing safety lock for, 25:54068(P)
containment for Karlsruhe prototype sodium cooled fast, safety analysis of, 22:18450
containment system design for 1000 MW(e) steam cooled, effects of maximum credible accident on, (T), 25:28738 (NP-18781)
containment system leak rate for design basis accident in liquid metal-cooled fast, agglomeration modeling for effects of aerosol particle size on, 23:23938 (CONF-680821-, pp 330-4)
containment systems for fast, effects of vented plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel elements on design of, 23:47090 (ANL-7520(Pt.2), pp 154-66)
containment vessel for, analysis of leakage after excursion from, 21:30137 (EURFNR-289)
control aspects of fast, 21:10133(T) (EURFNR-102-F)
control by digital computers, development by LMFBR Computer Control Center, 21:34080 (BNWL-SA-1129)
control element locations in cores of, effects on breeding ratio and fuel temperature of, (T), 25:60045
control in Japan of, use of digital computers for, 23:40344
control materials for, development of boron carbide, 25:2790 (ORNL-4570, pp 98-102)
control of 1000 MW(e) single fluid molten salt, analog computer simulation of, 24:38501 (ORNL-TM-2927)
control of coupled, state-variable feedback means of, 21:17458 (LA-DC-8352)
control of sodium cooled, instrumentation development for, 25:28667 (HEDL-SA-170)
control of water cooled, three dimensional space-time analysis for movable fuel, (T), 25:15353 (WAPD-TM-968)
control rod drives for conceptual liquid sodium cooled fast power, testing of, 24:1981
control rod drives for liquid sodium cooled fast, environment testing of magnetic jack, 23:37487
control rod location and management for 1000 MW(e) superheating fast D-1, calculation of optimum, (T), 22:53274 (EURFNR-544)
control rods for steam cooled fast, design criteria for, 22:53367
control system design for fast, with tube carrying liquid control material through core, 21:46920(P)
control systems for 1000 MW(e) single fluid molten salt, analog computer simulation of, 23:40340 (ORNL-TM-2489)
control systems for fast, development in Japan of, 25:18120
coolant and/or heat transfer fluid for, properties of molten fluorides as, 23:40622(P)
coolant boiling in fast sodium-cooled, analysis of voiding effects in transient, 21:17495
coolant boiling in fast, analysis of transient sodium, (T), 21:13945 (ANL-7222)
coolant boiling in liquid sodium cooled fast, detection methods for, (T), 25:3864
coolant boiling in sodium cooled, time for thermal process propagation of, (T), 25:23320
coolant cavitation in, mechanisms of liquid metal, 22:17114 (NP-17279)
coolant channels of, transient vaporization of sodium in, 21:30091(R) (ANL-7210)
coolant combustion in liquid sodium cooled fast, analysis of sodium oxide (Na_2O) aerosol release for, 23:37589
coolant depressurization incidents in gas cooled, performance of emergency core cooling systems following, (T), 25:20767
coolant ejection mechanisms for liquid metal-cooled fast power, computer program models for analysis of, (T), 23:19515
coolant expulsion dynamics for liquid sodium cooled fast, nonmetallic fluid simulation of, (E), 24:38583
coolant flow for, ETNA-code for analysis of two-phase transient sodium, 22:42205 (RT/ING-(68)10)
coolant flow in fast, effects of fuel element deformation and spacing on velocity and temperature distribution in turbulent, (T), 24:18652 (KFK-964, Sect. 5.1-12)
coolant flow in open duct of radial blanket of fast, performance of, (E/T), 25:51078
coolant flow through breeder fuel clusters in, method for control of, 25:28649(P)
coolant for liquid metal cooled fast, safety problems with liquid sodium, 25:37011
coolant for liquid metal-cooled fast, advantages and disadvantages of liquid sodium, 23:15632
coolant for, development of sodium, 21:17476(T) (NP-tr-1491)
coolant for, discrete ordinates study of neutron attenuation in sodium, 23:4199
coolant for, thermodynamic data analysis of cesium for, 21:31001 (ORNL-TM-1755)
coolant loss accident for gas cooled fast, cooling system response to, 25:41494
coolant loss accidents in helium cooled fast, analysis of core meltdown following, 24:50154 (CONF-700401-, pp 890-906)
coolant of liquid sodium cooled fast, measurement of incipient boiling characteristics of liquid sodium, (E), 24:18687 (KFK-964, pp Sect. 8.1-12)
coolant pump for liquid-metal fast-, design testing for liquid sodium, 22:32870
coolant pump power failure in 3500 MW(t) sodium-cooled bare-metal fast, flywheel-augmented flow coastdown following, (T), 22:37449 (ORNL-TM-2132)
coolant pumps for fast, design of large sodium, 23:49993 (SAN-681-1)
coolant pumps for fast, systems considerations in design of sodium, 23:28450
coolant pumps for sodium-cooled fast, development of electromagnetic, 25:15820
coolant purity in, requirements for sodium, 21:34114 (NAA-SR-Memo-12394)
coolants for fast, tabulation of advantages and disadvantages of sodium, steam, and helium, 23:28427
coolants for fast, use of helium as, 22:5938
coolants for liquid metal cooled fast, development of composite tungsten/rhenium thermocouple—ultrasonic probe for temperature measurements in, 23:38351(R) (NYO-3906-7)
coolants for molten salt, corrosion of structural materials by, (E), 24:17199 (JUL-608-RW)
coolants for, description of, 21:23634
cooling circuit concepts for steam cooled, 24:1971
cooling system for ceramic-fueled liquid sodium-cooled fast, analysis of overpower transients in boiling in, (T), 22:20832
cooling system for fast, use of heavy water steam in, 22:32857
cooling system for heavy water steam cooled fast, 25:54073(P)
cooling system for liquid sodium-cooled fast, analysis of two-dimensional velocity distribution for turbulent single-phase flow in, 22:24961 (GEAP-5411)
cooling system for sodium-cooled fast, fission product behavior in, (E/T), 22:39734 (AI-AEC-12687)
cooling system for steam-cooled fast, application of Loeffler cycle to, 22:53363
cooling system for superheating fast power, flow diagram for primary and secondary, 23:40280(P)
cooling system for, design and development of liquid metal bearings for, 24:14129(R) (NYO-3930-6)
cooling system of conceptual 1000 MW(e) sodium cooled, effects of pump perturbations on, (T), 24:38529
cooling system of helium cooled fast, design parameters for, 24:18611
cooling system of liquid sodium cooled fast, statistical method for analysis of hot channel factors for, (T), 24:18616 (KFK-964, Sect. 6.1-13)
cooling system reheat in LMFBR-type, analysis of optimum liquid sodium, 23:4207
cooling system valves for LMFBR, analysis of design requirements and types of, 22:53333
cooling systems for 1000 MW(e) LMFBR, corrosion testing of four conceptual, 22:44819 (GEAP-4881)
cooling systems for fast, fission product deposition in, 22:6020
cooling systems for liquid metal cooled fast, development in Japan of piping, pumps, and valves for, 25:18132
cooling systems for steam cooled fast, THEDYBER program for computing thermodynamic performance of, 24:18694(T) (EURFNR-655)
cooling systems for, design aspects of, 24:18644
cooling systems of, corrosion product and fission product activity levels in, (E), 25:60010(T) (EURFNR-902)
core configuration for fast, design of optimum, 22:35514
core configuration for fast, to reduce coolant void reactivity coefficient, 22:48669(P)
core configuration of fast power, effects of central blanket on optimum, (T), 23:33043
core design for steam cooled, with increased coolant flow in central region, 25:20697(P)
core design for, with fuel pins containing blanket material in end sections, 25:60028(P)
core design optimization for 1000 MW(e) sodium cooled fast, nonlinear programming methods for, 25:8051 (KFK-1238)
core development for gas cooled fast, during November 1968 to January 1969, 23:45083(R) (GA-9229)
core development for gas cooled fast, summary from May to July 1969 of, 23:49564(R) (GA-9639)
core development for gas cooled, Aug. to Oct. 1969, 24:13551(R) (GA-9811)
core development for gas cooled, during February 1970 through January 1971, 25:51083(R) (GA-10517)
core development for gas cooled, during February through April 1971, 25:51084(R) (GA-10654)
core development for gas cooled, Feb.—Apr. 1969, 23:43114(R) (GA-9359)
core development for gas cooled, November 1969 to February 1970, 25:18136(R) (GA-9838)
core development for gas-cooled fast power, July 1966 to July 1967, 23:17188(R) (GA-8107)
core development for gas-cooled, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
core for 1000 MW(e) LMFBR-type, effects of economic parameter varitions on optimum cylindrical, 23:4255
core for conceptual 1000 MW(e) gas cooled fast, design comparisons of, 23:45082(R) (GA-8787)
core for fast, description of orifice regulated flow multiple zone, 23:40320(P)
core for fast, design parameters of, 22:16205
core for fast, with unclad fuel elements of uniform enrichment, 25:10170(P)
core for large, performance of Bundle Controlled Expansion, (T), 21:1180 (WCAP-3589-2)
core for liquid sodium cooled fast power, effects of wrapper tube fuel elements on performance of step, 24:22413
core for molten salt, with tubular cells for passage of fissile and fertile fuel salts, 25:1858(P)
core for, design and development of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:40365 (APDA-211)
core for, ultrasonic transmission system for temperature measurements in, 24:16326(P)
core materials for molten salt, development of, 24:11159
core meltdown accident in 1000 MW(e) gas cooled fast, analysis of cooling and containment requirements for, 25:54161 (ORNL-TM-3546)
core monitoring in, instrumentation and signal processing for, (E/T), 25:60010(T) (EURFNR-902)
core of gas cooled fast power, design modifications for radiation induced swelling of, 25:6020
core optimization for sodium cooled, nonlinear programming method for, 25:28655(T) (EURFNR-830)
core optimization methods for, survey of, 22:42204 (RT/ING-(68)7)
core parameters for, effect of nuclear constant accuracy on, (T), 24:16280(T) (KFK-tr-301)
core power and temperature distributions in, RADYVAR code for, 24:7323 (KFK-781/2)
core reaction parameters of thoria-blanket, nuclear, 21:17533 (WAPD-TM-615)
cores for helium cooled fast, nuclear and structural properties of oxide, metal-cermet, and carbide, 23:26029 (KFK-864)
cores for steam-cooled fast, design parameters for, 22:6010
cores for, analytical methods for calculating kinetic behavior of coupled, 22:53348
cores for, comparison of optimum cylinder shaped and modular, 24:18593
cores for, effects of bred-plutonium content on breeder efficiency and neutronics characteristics of, 23:52463 (KFK-846)
cores of fast, design aspects of, 25:23284 (BARC/I-48)
corrosion product distribution in liquid metal cooled fast, STP-1 computer program for, 23:43094 (AI-AEC-12847)
cover gas for vented fuel fast, purification system for, 24:47870 (RT/ING-(70)7)
critical experiment using annular blanket seed elements containing enriched uranium oxide, 21:21653 (WAPD-TM-621)
critical heat flux in pressurized water, model analysis for closely spaced lattice of, (E), 23:26041 (WAPD-TM-466)
critical mass for bounded power density fast, calculation method of optimum fuel distribution for minimum, (T), 24:18618
criticality calculation methods for cylindrical, with partially inserted control rods, (T), 22:44815(T) (EURFNR-502)
criticality control following water entry in GCFR core, simulation of, 22:12087 (BNWL-472, pp 5.1-16)
criticality of plutonium-239—uranium and thorium—uranium-233 metal, carbide, and oxide fast, calculation of, (T), 22:47052
description of 1000 MW(e) ceramic fuel LMFBR, 22:18517
description of 1000 MW(e) gas-cooled fast, 22:16221
description of 1000 MW(e) liquid metal-cooled fast, reference design plant, 22:9990(R) (BAW-1312)
description of 1000-MW low-pressure-steam-cooled, 22:5943

description of 300 MW(e) liquid metal-cooled fast, 22:6036
description of 300 MW(e) liquid sodium-cooled fast, 22:39826
description of boiling fast, 22:16151 (INR-842/C)
description of fast, 22:18531(P)
description of JAERI, 21:25728
description of light water-cooled, using thorium-232 blanket and uranium-233 fuel, 22:1877(P)
description of liquid-sodium-cooled, with unclad metal fuel for desalination of seawater, 22:27455 (ORNL-4229, pp 188-90)
description of molten-salt-fueled, with multiple graphite fuel cells, 22:46973(P)
description of multi-region supercritical pressurized-water cooled fast, 22:20884(P)
description of Russian BN-350, 21:19394
description of Russian fast, 22:7827
description of UK and USA fast, 22:22717
description of US, 22:24990
design advances in U. K. program for, 21:27710
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and development of 1000 MW(e), 21:5596 (ANL-7001)
design and development of fast, in Germany, 21:17491
design and evaluation studies of thermal molten-salt, summary, 22:24935 (CONF-660524-, pp 41-63)
design and operation of, 21:12207(P)
design and performance of 1000 MW(e) steam-cooled fast, 21:10153
design and performance of German experimental, 21:30187
design characteristics for gas cooled fast, problems with, 25:41388
design characteristics of fast, 25:1861
design characteristics of gas cooled fast, in Germany, 25:60013 (KFK-1375)
design characteristics of high temperature gas cooled advanced converters, review of, 23:43079 (CONF-670338, pp 197-214)
design characteristics of world-wide prototype fast, comparison of, 23:2004
design characteristics of, tabular summary of, 24:18593
design concept for 1000 MW(e) steam-cooled, with prestressed concrete vessel, 22:44816 (EURFNR-522)
design concept for advanced converter, in Brazil, 23:43080 (CONF-670338, pp 215-28)
design concepts for fast, technical and economic evaluation of gas cooled and steam cooled, 23:34897 (WASH-1090)
design concepts for steam cooled, technical and economic evaluation of, 23:43087 (WASH-1088)
design concepts in Japan for 1000 MW(e) liquid sodium cooled fast, comparison of component characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
design description for 300 MW(e) liquid sodium-cooled fast Na-2, 22:37439(T) (EURFNR-462)
design evaluation of unclad metal-fueled, for process heat or power, 22:27630 (ORNL-TM-2203)
design for 1000 MW(e) steam-cooled fast, 21:23604 (KFK-392)
design for 330 MW(e) gas cooled fast, description of, 24:18594
design for carbide-fueled, effects of physics characteristics on, 24:7098
design having negative coefficient of reactivity, 21:23696(P)
design of 10,000 MW(t) fast sodium-cooled, 21:23588 (ANL-7183)
design of 10,000 MW(t) sodium-cooled fast, 21:40532 (ANL-7290, pp 216-26)
design of 1000 MW(e) fast, using computer program, 21:40552 (EURFNR-320)
design of 1000 MW(e) sodium-cooled, 21:30093(R) (ANL-7317)
design of 1000 MW(e) sodium-cooled fast, 21:23657
design of 1000 MW(e) steam-cooled fast, 21:19393(T) (ORNL-tr-1541)
design of 300 MW(e) liquid sodium cooled, 21:46848 (EURFNR-368)
design of 350 MW(e) demonstration fast, conceptual, 24:7055
design of fast, 21:23589(R) (ANL-7308)
design of fast, effects of nuclear data uncertainties on, 25:15345
design of fast, engineering for, 22:18501
design of fast, evaluation of nuclear data for, 22:6138(R) (LA-3820)
design of fast, review of technical and economic requirements in, 22:42272
design of fast, with checkerboard pattern of seed and blanket regions, 24:47813(P)
design of fast, with core configuration to minimize coolant void effect, 25:1863(P)
design of fast, with fuel handling device, 21:12206(P)
design of fast, with supercritical steam coolant, 21:10189(P)
design of fused-salt-fueled, 21:23643
design of gas cooled, with direct cycle helium turbine, 24:24798
design of gas cooled, with moveable fissile and fertile fuel assemblies, 25:1862(P)
design of heavy water enriched-uranium, 21:4395(P)
design of helium cooled and sodium cooled, system and component requirements in, 24:18603
design of Japan prototype, description of conceptual, 22:53332
design of large fast, safety aspects of, 21:7940
design of large HTGR advanced converters, 21:1159 (GA-7149)
design of large sodium-cooled fast, using plutonium—uranium-238 cycle, 21:4391(P)
design of liquid-metal-cooled fast, 21:8011(P)
design of sodium, description of computer program for treating coolant phase changes during transients for liquid, 22:53376
design of sodium-cooled, evaluation of, 21:30136 (EURFNR-287)
design of steam cooled fast, economic and technical evaluation of, 23:26019 (KFK-918)
design of steam-cooled, evaluation of, 21:30136 (EURFNR-287)
design of Swedish fast steam cooled, 22:16199
design of water-moderated thoria—uranium-233 epithermal, 21:31901 (BNL-11463)
design of, computer codes for neutron physics calculations for, 21:44848 (LA-3724)
design of, with rotary fuel units, 21:2854(P)
design parameters for 1000 MW(e) fast; 21:40528 (ANL-7290, pp 139-69)
design parameters for 1000 MW(e) gas cooled fast, conceptual, 23:28432
design parameters for 1000 MW(e) gas-cooled fast, limiting factors of, 23:11157 (CONF-680419-, pp 63-88)
design parameters for 1000 MW(e) liquid sodium-cooled fast, description of optimum, 22:37504
design parameters for 1000 MW(e) steam-cooled uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled fast, 22:18525
design parameters for 300 MW(e) prototype liquid sodium cooled fast, in Japan, 24:11162
design parameters for 300 MWe conceptual liquid sodium cooled fast, safety, 22:53360
design parameters for conceptual 1000 MW(e) gas cooled, 25:41387
design parameters for conceptual 1000 MW(e) liquid sodium-cooled fast, 23:31143
design parameters for conceptual 500 MW(e) liquid sodium-cooled fast, 23:19465 (NP-17784)
design parameters for dual-purpose power and desalting fast, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters for European fast, 21:42758
design parameters for General Public Utilities—Atomics International demonstration fast, 23:28428
design parameters for liquid sodium-cooled unclad plutonium—thorium—uranium-fueled dual-purpose desalting and power, analysis of optimum economic, 23:13556 (ORNL-4202)
design parameters for low-pressure-steam-cooled, 22:5944
design parameters for mixed uranium carbide (UC)—plutonium carbide (PuC) fueled liquid sodium cooled, analysis of optimum economic, 25:28664
design parameters in Italy for reference 1000 MW(e) PCC-2 liquid sodium cooled fast, analysis of optimum economic, 23:47160 (ANL-7520(Pt.2), pp 254-68)
design parameters in Japan for prototype 200 to 400 MW(e) liquid sodium cooled fast, analysis of optimum, 23:47156 (ANL-7520(Pt.2), pp 110-20)
design parameters in Japan for two conceptual 1000 MW(e) liquid sodium cooled fast, comparison of, 23:47153 (ANL-7520(Pt.2), pp 77-85)
design parameters in Japan of prototype 200 to 300 MW(e) fast, comparison of preliminary, 23:40323
design parameters in Japan of prototype liquid metal cooled fast, 25:3855
design parameters of 1000 MW(e) helium cooled fast, 25:54011 (A/CONF.49/P-23)
design parameters of 1000 MW(e) steam cooled, 25:28634 (NP-18782)
design parameters of 300 MW(e) demonstration gas cooled fast, 25:41367 (CONF-710315-15)
design parameters of 300 MW(e) gas cooled fast, 24:50075 (CONF-700401-, pp 795-811)
design parameters of fast, 25:28651
design parameters of fast power, 24:4030
design parameters of fast power, calculations for optimium economics of, 25:23251 (BARC/I-58)
design parameters of fast, conceptual, 22:16186
design parameters of gas cooled fast power, 25:3854
design parameters of liquid plutonium modular, calculational model, 21:42729(R) (LA-3745)
design parameters of liquid sodium-cooled plutonium oxide (PuO_2)-uranium oxide (UO_2)-fueled 350 to 500 MW(e) fast GPU/AI, analysis of conceptual, 22:37463
design parameters of molten salt, with boiling coolant, 23:52335(T) (JPRS-48330, pp 188-227)
design philosophy for first German sodium, 23:23860
design problems in Japan for conceptual 1000 MW(e) liquid sodium cooled fast, 23:47154 (ANL-7520(Pt.2), pp 86-9)
design problems with gas cooled fast, 25:60009 (CONF-710922-5)
design problems with liquid sodium cooled fast, review of, 25:60008 (CONF-710922-4)
design requirements for sodium cooled dual-purpose power and desalination, 23:49627
design specifications for development of LMFBR, description of conceptual, 22:32906
design studies on molten-salt, 21:23612(R) (ORNL-4037)
design with long lifetime seed-blanket core, 21:19445(P)
development, 21:19420
development and economics of, 21:46899
development and economics of fast, 21:42779
development and performance of fast, in U.K, 21:15721
development and use, report to the President on international and U. S, 21:19387 (TID-23729)
development by EURATOM of, description of, 22:18529
development during January to March 1970, 25:28632(T) (EURFNR-824)
development for economic electric power production, requirements for, 25:21231 (CONF-700816-(Vol.2), pp 459-66)
development for thorium—uranium cycle, 21:30207
development in Belgium, Denmark, Germany, and Netherlands of liquid metal cooled fast, review of joint, 25:54026 (A/CONF.49/P-366)
development in Europe, 21:30136 (EURFNR-287)
development in Europe of power fast, review of, 23:23859
development in Europe of, status of programs for, 25:18103
development in Europe, status of, 25:31536
development in France of fast, 25:25961
development in France, status of, 25:54036 (A/CONF.49/P-583)
development in future of, discussion on, 23:7378
development in Germany, 25:34204
development in Germany during 1970, 25:31538
development in Germany during April to June 1970, 25:41364(T) (EURFNR-849)
development in Germany during October to December 1970, 25:60010(T) (EURFNR-902)
development in Germany of 300 MW(e) prototype steam cooled fast, review of, 25:12767 (BMBW-FBK-70-20)
development in Germany of fast, 24:22382
development in Germany of fast power, analysis of optimum economic, 24:28988 (KFK-1066)
development in Germany of fast, description of, 23:9108
development in Germany of fast, during July to August 1970, 25:51028(T) (EURFNR-867)
development in Germany of fast, during July to August 1970, 25:25959 (KFK-1270/3)
development in Germany of gas cooled fast, 25:41389
development in Germany of liquid metal cooled fast, 25:60012 (JUL-775-RG)
development in Great Britain, 21:15647(R) (CONF-660450-1)
development in Italy of liquid metal cooled fast power, cost analysis for, 25:54019 (A/CONF.49/P-175)
development in Japan of liquid metal-cooled fast, review of, 23:28421
development in Japan of liquid sodium cooled fast, description of O-Arai Engineering Center for, 24:50193
development in Japan of liquid sodium-cooled fast power, technology for, 23:13421
development in U. S. of fast, analysis of economics for 1986 to 2005, 23:19450
development in U.S. of fast gas-cooled, 23:15608
development in U.S. of fast power, predicted schedule for, 24:24786
development in U.S. of liquid metal cooled fast power, cost—benefit analysis of optimum economic, 23:33058 (WASH-1126)
development in U.S., economic strategy for, 24:31083
development in U.S., states of, 24:16138
development in U.S., summary of program for, 22:16214
development in U.S.S.R, 25:34204
development in U.S.S.R. of fast power, review of, 23:13370(T) (JPRS-46747, pp 1-13)
development in U.S.S.R., review of, 25:31534 (WASH-1175)
development in West Germany, 21:46874
development in West Germany during 1969, summary of, 24:24800
development in western Europe of fast, 21:46885
development of, 21:23634
development of, 21:27738
development of, 22:40177 (KR-126, pp 385-93)
development of 1000 MW sodium- and steam-cooled, 21:30206
development of 1000 MW(e) molten salt fueled, predicted economic, 23:31149
development of 1000 MW(e) sodium-cooled fast, system effectiveness approach for optimum, 23:19470
development of 330 MW(e) helium cooled, 24:24796
development of advanced converter, by Euratom, 22:16211
development of advanced converter, economics of, 21:2847
development of advanced converter, trends in, 25:23239
development of Belgian—Dutch—German 300 MW(e) prototype liquid sodium cooled fast, review of design considerations and experimental programs for, 23:47157 (ANL-7520(Pt.2), pp 130-46)
development of boiling liquid-metal, use of EBR-I facility for, 21:19343 (ANL-7212)
development of breeder, economics in Europe of, 22:3857
development of conceptual gas cooled fast power, economic and technical criteria for, 23:33030 (WASH-1089)
development of coupled, safety and technological aspects of, 21:17456 (LA-DC-8288)
development of fast, 25:23116
development of fast and thermal, effects on uranium economics of, 23:23917
development of fast helium cooled, sodium cooled, and steam cooled, comparison of potential for, 25:39232
development of fast liquid metal-cooled, monthly progress report on Argonne National Laboratory, 22:37401(R) (ANL-7457)
development of fast liquid sodium-cooled, comparison with advanced thermal and steam-cooled fast breeder reactor, 23:11176
development of fast power, 24:16135
development of fast power, effects on economics of world-wide, 23:23933
development of fast power, problems of, 24:4030
development of fast power, review of world-wide, 24:5516
development of fast power, utility company economic requirements for, 23:11164 (CONF-680419-, pp 454-8)
development of fast, 30 year projection of objectives and requirements for, 23:52316
development of fast, analysis of joint manufacturer-utility-government efforts for optimum, 22:35506
development of fast, basic nuclear data for, 21:35546 (ANL-7320, pp 3-14)

development of fast, conference on, 24:18586 (KFK-964)
development of fast, description of program for, 22:1823
development of fast, economics and technology in Germany, 21:15658 (KFK-480)
development of fast, engineering aspects of, 22:16220
development of fast, in European Community, 25:60032
development of fast, in Germany, 22:6094 (EURFNR-403)
development of fast, in U.S.S.R, 23:15612
development of fast, needs and ways for joint government-industry participation in, 23:28426
development of fast, review of, 25:20708
development of fast, review of EBR-2 operations history for, 23:26055
development of fast, review of programs for, 24:26738(T) (EURFNR-714)
development of fast, review of worldwide, 24:40905
development of fast, technical and economic aspects of, 23:47181
development of fast, U. S. program for, 21:17481
development of first generation fast, review of, 24:18610
development of full-scale fast power, utility company perspective on, 23:11160 (CONF-680419-, pp 127-32)
development of fused-salt, 21:30162 (ORNL-TM-1851)
development of gas cooled fast, 25:54013 (A/CONF.49/P-116)
development of gas cooled fast, 25:41390
development of gas cooled fast, 24:16141
development of gas cooled fast power, problems with, 24:46002
development of gas cooled fast, review of, 25:60009 (CONF-710922-5)
development of gas cooled fast, technical and economic aspects of, 25:31535
development of gas-cooled breeder, 21:42728 (KFK-595)
development of gas-cooled fast, 21:19354(R) (GA-6667)
development of gas-cooled fast, component and material requirements for, 22:35466 (KFK-689)
development of gas-cooled fast, technical advancements in, 21:46847 (EURFNR-367)
development of German steam cooled fast, summary of experience gained by research and industrial groups in, 23:23862
development of heavy water moderated, concepts for, 24:24823
development of high gain, effects on fuel economics of, 23:31144
development of high-gain liquid sodium-cooled 200 to 400 MW(e) fast, description of prototype, 22:35504
development of high-gain, effects on economic fuel production of, 23:11172
development of high-temperature, problems of, 21:13979 (JUL-382-RG)
development of Japanese fast power, description of, 22:35485
development of Japanese fast, description of, 22:18526
development of liquid fueled thermal, technical and economic aspects of, 25:23245
development of liquid metal cooled fast, review of world wide, 24:18610
development of liquid metal fuel, LMFBR, 22:10438(R) (NAA-SR-12585)
development of liquid sodium cooled fast power, conference on, 23:47150 (ANL-7520(Pt.2))
development of liquid sodium cooled fast power, summary of, 25:60029
development of liquid sodium cooled fast, in Japan, 25:54043 (A/CONF.49/P-819)
development of liquid sodium cooled fast, review of, 24:46009
development of liquid sodium-cooled power, review of general trends in, 23:31145
development of LMFBR, conference on systems, materials, and components for, 23:11155 (CONF-680419)
development of molten salt, history and potential for, 24:11156
development of molten salt, review of, 25:18106
development of ordered bed, 21:38440 (BNL-50044)
development of power, 25:25963
development of power, future prospects for, 22:20843
development of power, review of worldwide, 22:25034
development of power, technical and economic aspects of, 22:18500
development of sodium cooled fast, programs for and problems in, 23:23867
development of sodium cooled, European cooperation in, 24:4034
development of sodium cooled, European program for, 24:40903
development of sodium cooled, in United Kingdom, 24:4032
development of sodium-cooled fast, 21:13946(R) (ANL-7279)
development of sodium-cooled fast, 21:13947(R) (ANL-7286)
development of sodium-cooled fast, in Germany, 23:15609
development of Soviet, 21:27703
development of steam cooled, progress summary on, 24:41016
development of steam cooled, review of, 25:39225 (KFK-1370)
development of steam-cooled fast, comparison with advanced thermal and liquid sodium-cooled fast breeder reactor, 23:11176
development of thorium, 23:23917
development of U. S. advanced fast and thermal, analysis of 1968 to 1974, 23:15567
development of U. S. fast, analysis of optimum, 22:35508
development of U. S., program for, 25:34203
development of U.S. fast, 25:54047
development of U.S. fast power, economic incentives for, 23:11080 (CONF-680419-, pp 9-24)
development of U.S., government and industry roles in, 24:47816
development of U.S.A. fast, description of proposed, 22:53298
development of United States fast, description of, 22:18527
development of, comparison of liquid sodium cooled, gas cooled, and steam cooled concepts for, 24:24797
development of, economic and performance aspects of, 24:16142
development of, economics and technical aspects of, 21:7987
development of, effect on uranium production and demand, 21:10482
development of, industrial aspects of, 21:34145
development of, market analysis for support industries in, 23:19441 (NYO-3853-1)
development of, monthly progress report on Argonne National Laboratory, 22:42158(R) (ANL-7460)
development of, monthly progress report on Argonne National Laboratory, 22:35422(R) (ANL-7445)
development of, objectives and directions for, 22:16208
development of, outlook for 1970 to 1985, 24:13530
development of, outlook for industrial, 24:18522
development of, program for U. S, 21:35562 (ANL-7320, pp 737-45)
development of, program in Japan for, 25:23240
development of, reasons for and USAEC role in, 23:28425
development of, review of, 23:31140 (KFK-881)
development of, review of, 24:18604
development of, review of, 24:18602
development of, review of, 24:18542
development of, review of economic and technical aspects to 1965, 23:11171
development of, review of materials and operating problems in, 24:13535
development of, review of theoretical and technical, 23:40328
development of, role of TR-SRE in, 21:1209 (NAA-SR-11359)
development of, status report on, 25:3891 (ORO-1171-1, pp 206-55)
development of, technical and economic aspects of, 24:24857
development of, U.S. program for, 24:16145
development potential of German sodium, short term, 23:23860
development program for 300 MW(e) and 1000 MW(e) liquid sodium-cooled fast, description of, 23:11173
development program for European, analysis of, 22:35501
development program for European, discussion on, 22:35491
development program for fast, analysis of optimum, 22:37464
development program for fast, emphasis on, 21:38589
development program for gas cooled fast, summary of, 23:23866
development program for German 300 MW(e) sodium-cooled, 22:53336
development program for German liquid sodium- and steam-cooled fast, description of optimum economic, 22:37461
development program for German liquid sodium- and steam-cooled fast, description of, 22:35539
development program for German steam cooled, costs and problems in, 23:23863
development program for Germany power fast, description of, 22:48670
development program for Great Britain liquid sodium-cooled fast, description to 1985 of, 22:42231
development program for liquid metal-cooled fast, description of U.S, 22:30216
development program for liquid sodium-cooled fast, use of ING, DFR, EBR-2, and FFTF in, 23:21447 (AECL-3251)
development program for LMFBR, 23:9129
development program for U. S, 23:43089
development program for U. S. 1000 MW(e) power, effects of fuel supply on optimum economic, 22:48703
development program for U. S. A. liquid metal-cooled fast, description of, 22:46951
development program for U.S. power fast, description of, 22:35541
development program for Yugoslavia fast power, analysis of optimum economic, 22:48667
development program in Japan of prototype liquid sodium-cooled fast power, 23:17181
development program in the United Kingdom, 22:6053
development program in U.K. for fast power, 24:31036 (TRG-Report-1925)
development program in U.K. for fast power, description of economic, 23:21457
development program to year 2000 of, 22:12050
development programs for fast power, economics of world-wide, 22:37448 (NP-17521)
development programs for fast, description of, 22:35471 (STI/PUB-165(Vol.1))
development programs for heavy water-moderated carbon dioxide-cooled, description of Czechoslovakian, French, and German, 22:39832
development programs for, comparison of Europe and U.S.A, 22:53287
development programs in Europe, review of, 24:18600
development programs in U.S.S.R. for liquid sodium cooled, review of, 24:43707
development status of fast power, review of, 23:21453
development status of fast, discussion of, 21:25646
developmental program for German steam cooled fast, 22:16201
Doppler coefficients for, review of methods for calculating, (T), 23:6001
Doppler effect in fast, effects on design and safety characteristics of, (T), 22:20852
dynamic behavior of 1000 MW(t) sodium-cooled fast, analysis of, 22:6027
dynamic behavior of fast, thermohydraulic and neutronics models for computing, 24:2058 (EURFNR-652)
dynamic behavior of, effects of variation of neutronic characteristics during core lifetime on, 22:53385
dynamic characteristics of heavy water moderated thorium, detailed parametric analysis of, 23:52313 (JUL-584-RG)
dynamics of 300 MW(e) liquid sodium cooled fast, time discontinuous approximation analysis of external actuated excursion effects on, (T), 24:18615 (KFK-964, Sect. 1.1-12)
dynamics of, RADYVAR code for calculation of place-dependent, 24:11311(T) (EURFNR-682)
economic analysis for agro-industrial complexes, 23:11167 (ORNL-4290)
economic aspects of, 21:8126 (ORNL-P-2535)
economic aspects of gas cooled fast, in Germany, 25:60013 (KFK-1375)
economic aspects of heavy water, cost comparisons for various fuel cycles for evaluating, 23:43126
economic comparison of gas cooled, with sodium cooled and steam cooled concepts, 24:4035
economic factors of, method for calculating, 22:1815
economic prospects for fast, 21:23617 (RISO-M-532)
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economics for 1000 MW(e) molten-salt, effects of graphite performance on, (T), 23:15602 (ORNL-TM-2136)
economics for desalting, 21:23705(R) (ORNL-4087)
economics for power production, projection of, 21:21664
economics for power, in New England to 1985, 21:46862 (NYO-3530-1)
economics for uranium conservation, 21:21667
economics in development of European, 21:30136 (EURFNR-287)
economics in Europe of uranium fueled, 21:44880
economics in Great Britain, 21:42746
economics of, 22:16208
economics of, 21:27721
economics of 1000 MW liquid metal-cooled fast, effects of safety on, 22:5970
economics of 1000 MW(e) liquid sodium cooled fast, effects of parameter variation on, 22:16166(T) (EURFNR-384)
economics of advanced converters for desalting, 21:23705(R) (ORNL-4087)
economics of advanced converters, tables of capital cost estimates for, 21:19384 (ORNL-TM-1773)
economics of CIRENE, 21:42763
economics of desalination, 21:40666
economics of dual-purpose, in the Soviet Union, 21:17514 (NP-16558)
economics of epithermal power, neutron and monetary, 22:9991 (BNL-10809)
economics of fast power, 22:5936(T) (JPRS-43265)
economics of fast power, effects of blanket management on optimum, 23:28500
economics of fast power, effects of fuel reprocessing time and thermal efficiency on, 24:11145
economics of fast, in mixed electrical generating systems with light water reactors, (T), 25:57061 (MLM-1851)
economics of fast, predictions of future, 23:15651
economics of fast, siting, 21:44850 (NYO-3530-2)
economics of fused salt power, 23:33031
economics of future, 21:30198
economics of gas cooled fast power, effects of fuel element thermal limits on, 25:5902
economics of gas cooled fast, (T), 25:57065
economics of gas cooled, effects of fuel element performance on, (T), 25:44131
economics of heavy water-moderated, 22:18482
economics of light water-moderated epithermal, 21:38575
economics of operation in nuclear power production, 22:12049
economics of operation of fast, for desalination, 22:18544 (STI/DOC-10/80)
economics of power, BAKO code for, 22:32764(T) (EURFNR-459)
economics of power, BAKO computer program for calculating, 22:16154 (KFK-644)
economics of power, comparison with other common reactor types of, 25:20749
economics of power, in 1986—2005, 22:16219
economics of power, review of, 21:23655
economics of Russian fast, 22:7827
economics of sodium cooled fast, effects of carbon dioxide gas turbine cycle on, (T), 25:8079 (BMBW-FBK-70-18)
economics of steam cooled fast, 23:23861
economics of steam cooled fast, effects of steam system pressure on fuel cycle and power production, 23:34907
economics of water-moderated thoria—uranium-233 epithermal, 21:31901 (BNL-11463)
economics of, analysis for optimization of, 25:37033
economics of, short-term and long-term criteria for, 21:30152 (KFK-569)
economy of production, 21:27709
effects of size on, 21:27709
effects on economics in U.S. of nuclear power generation, 23:19442 (ORO-665, pp 31-71)
effects on nuclear fuel cycle costs and uranium costs, 21:25644
electricity from, prediction of future production of, 22:12040
electricity production from fast power, economic potential of, 23:43088
emergency core cooling system for gas cooled fast, description of melted core, 25:1900(P)
experiment capsules for, design of, 21:38590
feasibility of gas cooled, with high thermal efficiency, 23:52310(T) (JPRS-48330, pp 164-87)
feasibility study for Brazilian thorium, 22:3818 (DER-7(Rev.))

fission product aerosol activity release following accidents in, Karlsruhe research program on, 23:2056 (KFK-798)
fission product distribution in liquid metal cooled fast, STP-1 computer program for, 23:43094 (AI-AEC-12847)
fission product release and transport control in sodium-cooled, review of methods for, 22:53396
fission product release and transport in liquid metal-cooled fast power, state-of-the-art review of, 23:19514 (ORNL-NSIC-37)
fuel analysis for converter, 21:31994(P)
fuel and breeder materials from, reprocessing of, 22:48909
fuel assemblies for liquid metal cooled fast, analysis of interchannel coolant mixing in wire wrapped pin type, 25:41426
fuel assemblies of fast, effects of bundle configuration on coolant cross-mixing in finned and unfinned, 23:45076
fuel assemblies of fast, pressure measurements for turbulent coolant flow in spiral spaced rod type, 24:11195
fuel breeding in, optimization of rate of, (T), 25:1960
fuel burnup in 2000 and 8000 liter core fast, FARED computer program calculation of, 23:9153(R) (BAW-3867-5)
fuel burnup in fast, calculation of optimum plutonium—thorium—uranium alloy, (T), 23:49568
fuel burnup in LMFBR-type, analysis of plutonium-containing, 23:4236
fuel burnup in multi-zone fast, refueling method for optimum, (T), 23:2037
fuel cans for fast, properties of alloys of chromium, molybdenum, nickel, and vanadium for, 25:27213
fuel cladding and structural materials development for, 24:988 (GEMP-1012(Pt.2), pp 41-79)
fuel cladding development for sodium-cooled, using stainless steels, 21:30208
fuel cladding development for steam-cooled, using nickel-base alloys, 21:30208
fuel cladding for fast, effects of high-temperature sodium and helium environment on mechanical properties of Type 304 stainless steel and Type 316 stainless steel tube-type, 23:13498 (AI-AEC-12721, pp 165-84)
fuel cladding for fast, effects of injected helium on tensile properties of thin-walled Types 304 and 316 stainless steel tube-type, 23:13499 (AI-AEC-12721, pp 243-54)
fuel cladding for fast, FBR development program purchase requirements for Type 304 stainless steel, Type 316 stainless steel, Incoloy 800, and Inconel 625 tubes for, 23:13497 (AI-AEC-12721, pp 161-3)
fuel cladding for fast, properties of stainless steel and vanadium-base alloys for, 24:17194
fuel cladding for liquid sodium cooled fast, corrosion and compatibility of metal alloy, 25:31568(T) (EURFNR-823)
fuel cladding for Sweden steam-cooled fast, pressure testing of, 23:11237 (CONF-680419-, pp 291-300)
fuel cladding for use in, fabrication and mechanical properties of vanadium-base alloy, 21:34900(R) (WCAP-3487-16)
fuel cladding for, creep rupture at 550 to 700°C of Type 316 stainless steel, 25:52355
fuel cladding for, development of refractory metal, 23:6650 (GEMP-1004, pp 178-97)
fuel cladding for, development of vanadium-base alloy, 21:36839
fuel cladding materials for fast, corrosion by sodium, 24:9996 (KFK-985, pp 71-91)
fuel composition in, integrated model for time-dependent and equilibrium, (T), 25:18150
fuel conversion ratio in, effects of neutron flux distribution on, 22:42284
fuel costs and requirements for 1000 MW(e) sodium cooled, 21:30185
fuel cycle analysis for 1000 MW(e), formulas for economic, 21:21804
fuel cycle analysis for fast, collapsing method effects on spatial mesh data for, (T), 25:60100
fuel cycle costs for fast, effects of transuranium isotope production on, (T), 23:6003
fuel cycle costs for, estimation of, 24:272 (ORNL-4422, pp 306-11)
fuel cycle costs for, estimation of plutonium—uranium nitride, 21:19458(R) (BNWL-300)
fuel cycle costs, comparison with high-temperature reactor, 21:25656
fuel cycle development for light water, 24:33760(R) (ORNL-TM-3015)
fuel cycle economics for liquid metal-cooled power-desalination fast, analysis of optimum, 22:32910
fuel cycle economics for liquid-metal-cooled, 21:40950 (CONF-670542-, Paper 5)
fuel cycle economics for, comparison with light water reactor fuel cycle economics and, 22:48635 (BNWL-SA-2052)
fuel cycle economics for, evaluation of, 21:46863 (ORNL-4145, pp 275-81)
fuel cycle economics of fast, 21:27686 (KFK-567)
fuel cycle economics of fast, methods of calculating, 24:11132
fuel cycle economics of liquid metal cooled fast, 24:31079 (CONF-700502-, pp 12-29)
fuel cycle economics of thorium blanketed, in combination with uranium-233 fueled light water reactors, (T), 24:46066
fuel cycle for fast power, analysis of optimum, (T), 23:33055
fuel cycle for fast power, burnup model for optimum, 23:37419
fuel cycle for fast power, reactivity worth calculations for optimum, 23:23875(R) (BAW-3867-6)
fuel cycle for fast, accuracy of space collapse techniques for multigroup calculations of, (T), 25:5965
fuel cycle for fast, effect of burnup model parameters on economics of, (T), 24:46065
fuel cycle for fast, effect of collapsing cross section data on calculation of, (T), 25:15352
fuel cycle for large liquid sodium cooled fast power, effects of sodium void coefficient on optimum economic mixed, 23:43100
fuel cycle for liquid metal cooled fast power, calculation of optimum economic, 23:49565 (LA-4187)
fuel cycle for liquid sodium cooled fast, chemical processing requirements for, 25:31568(T) (EURFNR-823)
fuel cycle for on-load refueled, use of digital computers for optimum, 23:13507
fuel cycle for thermal, economic advantages for uranium-thorium, 22:42156 (AECL-3081)
fuel cycle for, analysis of optimum thorium, 22:35492
fuel cycle for, characteristics of continuous loading, 24:43709 (DP-Report-249)
fuel cycle for, economic analysis of, (T), 24:33351 (SRARI-P-11)
fuel cycle for, economic comparison of aqueous and nonaqueous reprocessing in, 23:13808(T) (ANL-Trans-708)
fuel cycle for, economics of, 24:18662
fuel cycle for, economics of plutonium, 21:31940 (LA-3655)
fuel cycle for, protactinium production from thorium, 23:4604
fuel cycle in fast, analysis of plutonium—thorium—uranium, (T), 23:45085
fuel cycle management for fast power, mathematical model analysis of, (T), 24:18769
fuel cycle management for plutonium—thorium—uranium fueled fast, analysis of optimum, (T), 23:23925
fuel cycle of fast, economics using enriched uranium in, 21:27691 (ORNL-TM-1800)
fuel cycle of fast, effects of neutron energy group structure on, 24:7136
fuel cycle performance in, economic comparison of helium cooled and sodium cooled, 24:24841
fuel cycle schedules to 1995 of, analysis of optimum, 22:35535
fuel cycles for fast, development in Japan of optimum long term, 24:52784
fuel cycles for thermal, economics of thorium—uranium-233, (T), 25:20746 (JUL-644-RG)
fuel cycles for, economics of nitride, (T), 22:22659 (BNWL-606)
fuel cycles for, factors affecting optimization of, 25:34384(T) (JPRS-53069, pp 147-55)
fuel cycles for, model for optimization of, (T), 25:20752
fuel cycles for, optimum fuel utilization in, (T), 25:48279
fuel cycles for, use of thoria—urania, 21:2835
fuel development and testing for, 22:720 (BMI-1809, Sect.A)
fuel development for, 21:23598(R) (EURFNR-268)
fuel development for, 22:8739 (ORNL-4170, pp 97-102)
fuel development for fast, 21:25935(R) (ANL-7225)
fuel development for fast, status of, 21:7938
fuel development for LMFBR-type, description of plutonium carbide (PuC)—uranium carbide (UC), 23:4220(R) (UNC-5224)
fuel development for seed—blanket type, 23:8343 (WAPD-TM-630)
fuel development for, thorium, 21:35718 (IN-1104)
fuel development in Japan for fast, present state of mixed oxide, 23:11244
fuel doubling time in, comparison of uranium oxide (UO_2) and uranium carbide (UC), 24:43707
fuel economics of, effects of power requirements on, 22:3832 (KFK-566)
fuel element assemblies for liquid metal cooled fast, coolant pressure loss in spiral rib spaced 37 rod bundle, (E), 24:38545 (KFK-1038)
fuel element assemblies for liquid sodium cooled fast, effects of spacer configurations on heat transfer and fluid flow in, 25:31568(T) (EURFNR-823)
fuel element assemblies for, heat transfer and pressure losses in axial flow through, 21:41097 (IRB-2/66)
fuel element assemblies in experimental program fast, fabrication and testing in Japan of, 24:18718(T) (JAPFNR-2)
fuel element cladding for, 22:4753
fuel element cladding for fast, development of materials for, 23:24848 (GEMP-1008, pp 115-41)
fuel element cladding for liquid metal cooled fast power, effects of burnup and neutron spectra on failure of, 23:37526
fuel element cladding for liquid metal-cooled fast, analysis of economics of type 316 stainless steel and vanadium alloys for, 22:32909
fuel element cladding for liquid sodium cooled fast, mechanical properties of austenitic stainless steel, 24:18649 (KFK-964, Sect. 2.1-11)
fuel element cladding for liquid sodium cooled fast, corrosion problems for titanium—vanadium alloy, 25:37016 (CONF-700211-9)
fuel element cladding for LMFBR, economics and performance testing of Type 316 stainless steel and VANSTAR-7 and -9, 22:46925 (WARD-3791-19)
fuel element cladding for LMFBR-type, compatibility of uranium nitride (UN) with metal, 23:4230
fuel element cladding for superheating fast, effects of operating conditions and configuration on stress and temperature distribution in spiral spacer type, 23:33052(T) (EURFNR-607)
fuel element cladding for, development of molybdenum—rhenium—tungsten alloy, 23:6651 (GEMP-1004, pp 198-215)
fuel element cladding for, development of refractory metal, 23:6663 (GEMP-1004, pp 216-41)
fuel element cladding for, requirements of, 24:9988 (KFK-985, pp 1-16)
fuel element cladding materials for liquid-metal-cooled fast, review of properties of, (E), 22:35425 (BMI-1900)
fuel element cladding materials for LMFBR, corrosive effects of liquid sodium on, 22:44821(R) (GEAP-5546)
fuel element cladding of Type 304 and Type 316 stainless steels and Incoloy 800 for LMFBR-type, analysis of liquid sodium corrosive effects on, 23:4234
fuel element configuration for 1000 MW(e) liquid metal-cooled fast, economic analysis of, 22:10005 (KFK-568)
fuel element cycle management in 1000 MW(e) liquid sodium coded fast, calculation of optimum, 24:22412
fuel element design and fabrication for fast, plutonium carbide-uranium carbide, 21:7899 (UNC-5137)
fuel element development and testing for gas cooled fast, during November 1968 to January 1969, 23:45083(R) (GA-9229)
fuel element development for, 22:725 (BMI-1809, Sect.E)
fuel element for 1000 MW(e) gas-cooled fast, fabrication and irradiation testing of Hastelloy X-clad uranium oxide (UO_2) pellet-type, 23:7389(R) (GA-7645)
fuel element for fast, description of helical rib spaced cylinder clad rod type, 25:37027(P)
fuel element for liquid metal-cooled fast, description of radial-cooled conical annular, 22:35488(P)
fuel element for, design of plutonium—uranium monocarbide, for liquid metal-cooled fast, 21:45977(R) (WCAP-3791-8)
fuel element for, fabrication and properties of plutonium carbide—uranium carbide, 21:22908(R) (WCAP-3791-2)
fuel element for, temperature scanner for bubbles in sodium bond, 25:31571
fuel element management during startup of, in-core, (T), 25:6054
fuel element management in conceptual 250 MW(e) fast, calculation of optimum, 24:22411
fuel element processing for, design and cost estimate of facility for, 22:27954 (ORNL-TM-2050)
fuel element reprocessing for fast, 23:2397
fuel element supports for, effects of fuel element ovality and diameter change on dimple spacing of, (T), 25:10167 (WAPD-TM-714)
fuel elements for conceptual fast Na-1, eigenfrequencies and eigenfunctions of transverse vibrations of rod, 23:43118 (KFK-923)
fuel elements for fast liquid metal cooled power, performance requirements for delayed neutron monitoring, for detection of failure of, 23:31179 (ANL-7533)
fuel elements for fast pebble-bed, description of liquid metal-cooled tube-and-shell heat exchanger, 22:35490(P)
fuel elements for fast power, design parameters for optimum, (E/T), 22:39810
fuel elements for fast power, effects of molten chloride fuel bonding and chloride vapor coolant on performance of plutonium carbide (PuC)—uranium carbide (UC), 24:13549 (EIR-167)
fuel elements for fast, CYGRO-1 computer program for design parameters of, 23:37528
fuel elements for fast, design criteria for type-304 and -316 austenitic stainless steel cladding for, 22:6019
fuel elements for fast, design parameters for, 22:33092 (KFK-700(Pt. I))
fuel elements for fast, design parameters for, 22:53273(T) (EURFNR-472)
fuel elements for fast, development of, 25:10101
fuel elements for fast, economics of plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:27423
fuel elements for fast, effect of internal geometry on radial temperature distribution in cylindrical low-density oxide, (T), 22:44825 (KFK-751)
fuel elements for fast, effects of internal fins on power of, (T), 25:10223
fuel elements for fast, effects of internal fins on performance of rod type, 25:18141
fuel elements for fast, fabrication and testing of mixed-carbide, 22:53463(R) (UNC-5217)
fuel elements for fast, fabrication of ceramic and cermet, 23:43120
fuel elements for fast, French production of ceramic, 24:12458
fuel elements for fast, method for calculation of swelling pressure at high burnup in, 25:47181
fuel elements for gas cooled fast power, development during August 1967 to July 1968, 23:45082(R) (GA-8787)
fuel elements for gas cooled fast, irradiation testing of, 25:5990(R) (ORNL-4589)
fuel elements for gas cooled fast, radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:44125 (ORNL-TM-3427)
fuel elements for gas cooled, development of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:41431
fuel elements for gas cooled, irradiation testing of, 25:48260(R) (ORNL-4637)
fuel elements for gas-cooled fast power, development during July 1966 to July 1967 of, 23:17188(R) (GA-8107)
fuel elements for heavy water moderated and cooled thorium, development of prototype, (E/T), 25:10209 (JUL-654-RG)
fuel elements for helium cooled fast, development of metal clad mixed plutonium oxide (PuO_2)—uranium oxide (UO_2), 24:50120 (CONF-700401-, pp 864-78)
fuel elements for helium cooled fast, performance of vanadium alloy clad, 24:50119 (CONF-700401-, pp 854-63)
fuel elements for helium-cooled 1000 MW(e), mechanical and thermal properties of, 25:58410 (BLG-456)
fuel elements for light water, CYGRO-3 model for stress analysis in oxide rod type, 24:33332
fuel elements for light water, effects of power transients on stress in, (T), 24:33333
fuel elements for light water, power and pressure cycling effects on progressive elongation of, (T), 24:46049

fuel elements for light water, use of narrow resonance approximation for computing resonance integrals in cladding of, 24:7081
fuel elements for liquid metal cooled fast, design of, 24: 31066 (CONF-700502-, pp 49-58)
fuel elements for liquid metal cooled fast, fabrication of thorium—uranium alloy compacted powder, 24: 31124(R) (ORNL-4538)
fuel elements for liquid sodium cooled fast, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), uranium oxide (UO_2), uranium oxide (UO_2) cermets, uranium carbide (UC), and uranium nitride (UN), 25:31568(T) (EURFNR-823)
fuel elements for liquid-metal fast-, analysis for optimum vibration stability in, (E/T), 22:32970(R) (GEAP-5584)
fuel elements for sodium cooled fast, design and safety optimizations of plutonium—uranium carbide, 22: 53368
fuel elements for sodium cooled fast, radiation histories of oxide, 23:23867
fuel elements for sodium cooled, development of uranium oxide (UO_2) and uranium carbide (UC), 25:31572
fuel elements for steam cooled fast, coolant mixing and heat transfer characteristics of helical ribbed cylindrical, 23:23915
fuel elements for steam cooled fast, design data for various types of, 23:23916
fuel elements for steam cooled fast, economic effects of using inner ribbed, 23:34907
fuel elements for steam cooled fast, effects of high temperatures and pressures on, 23:23916
fuel elements for steam cooled fast, radiation effects and mechanical properties testing of, 23:23914
fuel elements for steam cooled fast, radiation testing of Inconel clad uranium oxide (UO_2), 25:23286
fuel elements for testing of cladding plutonium nitride (PuN)—uranium nitride (UN) at 700 to 1000°C for, 22:32816
fuel elements for unclad-metal, literature review of thorium-uranium, 24:34924 (ORNL-4557)
fuel elements for water cooled power, revised FIGRO computer program for swelling and temperature distribution in cylinder shaped bulk oxide, 24:29019 (WAPD-TM-618(Add.2))
fuel elements for water cooled, CYGRO-3 computer program for deformation and stresses in mixed oxide, 24:36032 (WAPD-TM-961)
fuel elements for water cooled, FIGRO computer program for steady state temperature in Zircaloy clad bulk oxide, 24:11190 (WAPD-TM-757)
fuel elements for water cooled, in-pile dimensional changes of Zircaloy-4 cladding for, (E/T), 25:51098 (WAPD-TM-973)
fuel elements for water cooled, model for analysis of in-pile behavior of, 25:51101
fuel elements for water cooled, radiation effects on swelling in Zircaloy 4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) pellet type, 24:33313
fuel elements for water moderated fast, radiation effects on swelling of Zircaloy-4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) rod type, 25:15366 (WAPD-TM-986)
fuel elements for, conference on development of, 22: 32771 (KFK-700)
fuel elements for, description of, 21:40622
fuel elements for, description of vanadium clad pin, chrome cermet, and ceramic coated particle, 23:28368
fuel elements for, design of graphite matrix-incorporated fertile material, 24:2352(P)
fuel elements for, development of mixed carbide, 23: 15679(R) (UNC-5193)
fuel elements for, effect of internal geometry on radial temperature distribution in, (T), 23:4217(T) (EURFNR-532)
fuel elements for, effects of inner ribs on thermal performance of, (T), 24:29013 (KFK-1118)
fuel elements for, effects of sodium vapor condensation on deformation of, (E/T), 24:9093 (NP-18060)
fuel elements for, fabrication for in-pile radiation testing, 22:732 (EURFNR-318)
fuel elements for, fabrication of unclad metal, 25:58185 (ORNL-TM-3499)
fuel elements for, internal pressure limits at high burnup rates in, (E/T), 25:20741
fuel elements for, method for production of compacted coated-particulate, 25:49522(P)
fuel elements for, properties of thorium—uranium, 21: 11190 (ANL-7155, pp 1-166)
fuel elements for, selection criteria for cladding for, 22: 32772 (KFK-700(Pt. III))
fuel elements for, selection criteria for cladding for, 22: 53273(T) (EURFNR-472)
fuel elements for, techniques for examination of irradiated, 22:53273(T) (EURFNR-472)
fuel elements for, techniques for examination of irradiated, 22:32778 (KFK-700(Pt. XII))
fuel elements for, use of vanadium cladding on, 23: 18199
fuel elements of fast, description of uranium metal thermal insulation for mixed oxide pin type, 24: 26782(P)
fuel elements of fast, effects of coolant hydrodynamic forces on oscillations of, (E/T), 24:18651 (KFK-964, Sect. 4.1-15)
fuel elements of fast, performance of Incoloy 800 helical fin spacer tubes for, 24:26769(T) (EURFNR-721)
fuel elements of fast, radiation testing programs in BR-2, FR-2, and MZFR for, 24:18653 (KFK-964, Sect. 10.1-14)
fuel elements of gas cooled fast power, pressure equalization system for, 25:6019
fuel elements of liquid metal cooled fast, development of delayed neutron monitoring failure detection system for, 25:57055 (JAERI-Memo-4157, pp 84-8)
fuel elements of liquid sodium cooled fast, development of failure detection systems for, 25:57056 (JAERI-Memo-4157, pp 89-100)
fuel elements of water cooled, effects of power transients on deformation of metal clad cylinder shaped uranium oxide (UO_2) pellet type, (E/T), 24:20569 (WAPD-TM-652)
fuel elements with spiral spacers for, design parameters and fabrication techniques for, 23:11239 (KFK-768)
fuel fabrication for 1000 MW(e) GE-LMFBR, economics of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23: 2033 (ORNL-TM-2344)
fuel fabrication for, economics of, 24:11279
fuel for 1000 MW(e) LMFBR-type, computer analysis of fabrication costs for, 23:4254
fuel for fast, comparison of NUPAC and VIPAC fabrication costs for, 23:4246
fuel for fast, preparation of sodium—uranium nitride, 21: 45988(P)
fuel for fast, use of thorium and uranium-233 in, 21: 14033
fuel for fast, utilization of plutonium, 23:2130 (BNWL-SA-2065)
fuel for Japanese 1000 MWe fast, optimization of plutonium dioxide—uranium dioxide mixes for, 23: 10271
fuel for molten-salt, helium bubble mass transfer removal of xenon-135 from, 22:46916 (ORNL-TM-2245)
fuel for thorium converter-type, economics of plutonium, 24:11142
fuel for, design of coated-particle, 21:4394(P)
fuel for, economics of plutonium, 21:2846
fuel for, preparation of plutonium phosphide—uranium carbide, 22:11037(P)
fuel handling systems for, development of, 25:23295
fuel inventory of fast, economic aspects of, 21:7942
fuel lifetime in fast, model for prediction of, 24:10212
fuel loading system of helium cooled fast, design parameters for, 24:18611
fuel management in 1000 MW(e), optimization of radial blanket, (T), 25:15378
fuel pellet and rod failure in, probability analysis of, 25: 51105
fuel pellets for, fabrication experiment design for, 21: 21652 (WAPD-TM-589)
fuel pin cladding for sodium cooled, CRASH computer program for strain and stress analysis in, 24:16309 (KFK-1050)
fuel pin design for, reliability margin analysis for, 22: 32837
fuel pins for fast, development program in Germany for, 24:41013 (TRG-Report-1911, pp 82-100)
fuel processing for, 22:27863(R) (ORNL-4204)
fuel processing for, 21:45199 (ORNL-4145, pp 29-57)
fuel processing for molten-salt, volatility method for, 21: 14310
fuel production efficiencies and requirements for, 21: 42829
fuel production for integrated thermal reactor, economics of plutonium, 24:11137
fuel production of high-gain, performance by 1990, 22: 35691
fuel recycle scheme for molten-salt, development of, 23: 4227
fuel reload for LMFBR-type, analysis of optimum plutonium carbide (PuC)—uranium carbide (UC), 23: 4257
fuel reloading of 1000 MW(e) liquid metal-cooled fast, description of, 22:9990(R) (BAW-1312)
fuel reprocessing costs for fast, effects of cooling time on, 24:9463
fuel reprocessing for, 22:27867 (ORNL-4204, pp 52-9)
fuel reprocessing for fast, 23:26319 (ANL-7550, pp 7-22)
fuel reprocessing for fast, 24:44060 (ANL-7650, pp 1-14)
fuel reprocessing for fast, Purex process for, 23:6204
fuel reprocessing for fast, pyrochemical head-end, 25: 34688 (EUR-4615)
fuel reprocessing for fast, pyrochemical head-end, 25: 34687 (EUR-4614)
fuel reprocessing for liquid metal-cooled, aqueous methods for, 23:21781(R) (ORNL-TM-2552)
fuel reprocessing for liquid metal-cooled, choice of solvent extractor for, 22:47205 (ORNL-TM-2290)
fuel reprocessing for molten-salt, 23:19829 (ORNL-4344, pp 291-327)
fuel reprocessing for, by fluoride volatility methods, 24: 5727
fuel reprocessing for, comparison of economics of wet and dry, 23:40851
fuel reprocessing for, comparison of economics of aqueous and nonaqueous, 25:199 (CEA-R-4075)
fuel reprocessing for, development of fluoride volatility processes for, 23:19820 (CONF-680610-, pp 65-78)
fuel reprocessing for, developments in pyrochemical methods for, 23:17543
fuel reprocessing for, economics and methods for dry radiochemical, 24:9462
fuel reprocessing for, evaluation of problems in, 25: 10672
fuel reprocessing for, pyrochemical methods for, 22: 51063
fuel requirement in the United Kingdom for fast-type, estimates of plutonium, 23:10196
fuel requirements for fast, evaluation of plutonium, 22: 7804 (EURFNR-422)
fuel requirements in the United States for fast-type, estimates of plutonium, 23:10197
fuel rod assemblies for gas cooled fast, effects of coolant flow blockage on failure propagation in, 25:41437
fuel rod cladding for steam cooled fast power, effects of spiral spacer configurations on stress and temperature distributions in, 23:31165 (KFK-805)
fuel rod development for gas-cooled, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
fuel rods for, heat transfer studies with simulated, 23: 47694 (KFK-894)
fuel subassemblies for, use of conical array for reduction of coolant pressure drop in, 25:34377(P)
fuel subassembly for liquid metal cooled fast, description of bundle arranged pin type, 23:45086(P)
fuel system design for fast, 21:19436(P)
fuel temperature distribution in liquid sodium-cooled fast, effects of stationary fission gas bubbles on stainless steel-clad sodium-bonded mixed-carbide, (E/T), 23: 15639 (CONF-680832-2)
fuel transport from, economics of plutonium, 24:9629
fuel-cycle costs for 1000 MW(e) gas-cooled, (T), 22: 27413 (GA-8032)
fuels and components for steam cooled fast, review of development of, 23:23861
fuels development for, 21:2896 (TID-6506(Pt.3)(4th Ed.))
fuels for 1000 MW(e) high-temperature gas-cooled fast, physics parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2) and plutonium carbide (PuC)—uranium carbide (UC), 23:11238 (EURFNR-580)
fuels for breeder—converter, economics of using thorium—uranium crossed progeny, 23:33050 (DUN-SA-72)
fuels for fast, conceptual prochemical process for reprocessing, 22:51044 (ANL-7425, pp 19-41)
fuels for fast, corrosive effects of ceramic—sodium paste-type, on stainless steel, 22:2573
fuels for fast, development of carbide, 24:38542(T) (EURFNR-722)
fuels for FBR development program of breeder, carbon activities in plutonium carbide (PuC)—uranium carbide (UC), 23:13500 (AI-AEC-12721, pp 255-60)
fuels for gas cooled fast, development of coated particle, 24:50118 (CONF-700401-, pp 833-53)
fuels for gas cooled, chemical reactions of cladding with mixed oxide, (E/T), 25:44123 (ORNL-TM-3385)
fuels for high-gain, use of unclad-metal, 22:5945
fuels for liquid metal cooled fast, development in Japan of plutonium bearing, 25:54094 (A/CONF.49/P-821)
fuels for liquid metal-cooled fast, criticality of, effects of composition and configuration on, 23:17522 (Y-DR-9)
fuels for liquid metal-cooled fast, preparation by Sphere-Pac and pelletization of sol-gel particles, 24:30019 (CONF-700502-, pp 323-41)
fuels for LMFBR-type, burnup performance of plutonium nitride (PuN)—uranium nitride (UN), 23:4240
fuels for LMFBR-type, development of optimum plutonium carbide (PuC)—uranium carbide (UC) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 23: 4237
fuels for sodium-cooled fast, development of ceramic, 21:34109(R) (GEAP-5292)
fuels for sodium-cooled fast, properties of ceramic, 22: 30123 (BNWL-SA-1550)
fuels for sodium-cooled, development of ceramic, 21: 34108(R) (GEAP-5198)
fuels for steam-cooled fast power, effects of new plutonium-239-α data on breeding potential of, 23: 17187(T) (EURFNR-586)
fuels for, analysis of advantages and disadvantages of thorium, 23:52357
fuels for, burnup and heat rating parameters of, 24: 18660
fuels for, conference on carbide type, 24:17226 (KFK-1111)
fuels for, development and testing stainless steel—uranium dioxide cermet, 23:8363
fuels for, development of, 21:35572 (EURFNR-312)
fuels for, development of, 22:16265(R) (ANL-7403)
fuels for, development of burnup determination methods for, 25:34352 (IN-1456)
fuels for, development of plutonia—urania, 21:35574 (EURFNR-314)
fuels for, development of plutonium—uranium, 21:30216
fuels for, development of unclad metal, 24:2895 (ORNL-4470, pp 145-7)
fuels for, developments of plutonium alloys and ceramics for use as, 21:11191 (CONF-661003-13)
fuels for, economics of plutonium, 23:24809(T) (NP-tr-1749)
fuels for, economics of plutonium, 23:33918 (DUN-SA-81)
fuels for, economics of plutonium, 22:28729
fuels for, economics of plutonium, 24:11125
fuels for, effects of time after discharge on transuranium element composition of, (T), 24:26775 (ORNL-TM-2897)
fuels for, fabrication of plutonium carbonitride—uranium carbonitride, 21:32951(R) (BMI-1798)
fuels for, methods for fabrication of ceramic, 25:32774 (GEAP-13582)
fuels for, performance of plutonium—uranium carbide and oxide as, 21:7941
fuels for, performance of sol-gel-produced, 24:30049 (CONF-700502-, pp 359-73)
fuels for, properties of carbide and nitride, 25:42956 (JAERI-13517)
fuels for, properties of thorium uranium carbide and thorium uranium nitride, 22:11072 (ORNL-TM-2015)
fuels for, reprocessing of, 22:40177 (KR-126, pp 385-93)
fuels for, salt transport method for reprocessing ceramic, 22:40184 (KR-126, pp 476-93)
fuels for, sintering methods for fabrication of plutonium nitride—uranium nitride, 21:32951(R) (BMI-1798)
fuels for, steady state time effects on isotopic composition of, 22:18476
fuels for, thermal conductivity of porous ceramic, 21: 38584
fuels from, aqueous methods for reprocessing, 22:40179 (KR-126, pp 405-14)
fuels from, equipment and methods for safe shipping of irradiated, 24:20968 (KFK-666)
fuels from, pyrometallurgical processes for reprocessing, 22:40182 (KR-126, pp 452-67)
fuels in France for fast, development of, 24:33321

fuels in, burnup efficiency of, 25:54135 (A/CONF.49/P-709)
graphite performance in one- and two-fluid molten-salt, effects of fast and intermediate neutrons on, (E/T), 23:15602 (ORNL-TM-2136)
heat exchangers for molten salt, computer programs for design of, 25:25974 (ORNL-TM-2815)
heat exchangers for sodium-cooled fast, description of intermediate and secondary, 25:18574
heat exchangers in Japan for fast, development of liquid metal—liquid metal intermediate, 25:18133
industrial aspects of fast, review of 3rd Foratom Congress on, 21:42758
instrumentation for, 21:30166 (ORNL-TM-1856)
kinetic characteristics of heavy water moderated thorium, detailed parametric analysis of, 23:52313 (JUL-584-RG)
kinetic equations for, use of Kantorovitch variational principle for solution to time- and position-dependent multigroup transport, 23:52462 (KFK-781/I)
kinetics equations for fast, analysis of, (E/T), 22:35471 (STI/PUB-165(Vol.1))
kinetics for gas-cooled fast, review of elementary design, 23:26026 (ANL-7532)
kinetics of 1000 MW(e) liquid sodium cooled fast, effects of burnup and fuel cycle management on, (T), 24:4043
kinetics of conceptual Japan 1000 MW(e) liquid sodium cooled fast, calculation of optimum, 23:47182 (ANL-7520(Pt.2), pp 99-109)
kinetics of coupled, use of vector matrix differential equations for space-dependent, 21:40604
kinetics of fast power, comparison of ABN, KFK-SNEAK, and KFK 26-10 group constant sets for, 23:33037 (EURFNR-625)
kinetics of fast, (T), 25:20708
kinetics of superheating fast, effects of Loeffler boiler characteristics on, 23:43099
LMFBR, monthly progress report on Argonne National Laboratory, 22:35422(R) (ANL-7445)
LMFBR, monthly progress report on Argonne National Laboratory, 22:37401(R) (ANL-7457)
LMFBR, monthly progress report on Argonne National Laboratory August 1968, 22:50699(R) (ANL-7487)
loading machine for liquid sodium cooled fast, description of extension tube grab type, 24:52943(P)
maintenance of helium cooled fast, requirements for, 24:18611
materials development for, 21:2896 (TID-6506(Pt.3)(4th Ed.))
materials development for, 21:30164 (ORNL-TM-1854)
materials development for, 21:9083 (GEMP-61, pp 111-18)
materials for fast, effects of fast neutrons and temperature on void formation in, 25:34325
materials for fast, effects of liquid sodium at 1200 to 1500°F on mechanical properties of, 21:30971
materials for fast, effects of sodium on properties of, 23:43944(R) (GEAP-10008)
materials for high-temperature, development of core and fuel, 22:16168
materials for liquid metal-cooled fast, properties of, 24:7375
materials for liquid-metal fast, research on, 21:26864 (BNWL-SA-972)
materials for LMFBR, development of, 23:35980 (BNL-50170)
materials for LMFBR, testing at high temperatures with sodium, 23:18185(R) (MSAR-69-7)
materials for sodium-cooled, 21:17476(T) (NP-tr-1491)
materials for, creep testing of Type 316 stainless steel, 25:2660 (JAERI-Memo-4097)
materials for, development of control, reflector, and shielding, 24:949 (GEMP-1012(Pt.2), pp 311-64)
materials for, effects of high temperature sodium on, 22:8725(R) (MSAR-67-207)
materials for, properties of stainless steel and steel, 25:4770
moderator spheres for pebble bed, fabrication, properties, and irradiation behavior of beryllium oxide (BeO), 23:26128 (JUL-552-RW)
moderators for high temperature thermal, radiation effects on beryllium oxide, 22:46901 (JUL-528-RW)
monthly progress report on LMFBR, Argonne National Laboratory October 1968, 23:11154(R) (ANL-7513)
monthly progress report on LMFBR, Argonne National Laboratory September 1968, 23:11153(R) (ANL-7500)
monthly progress report on LMFBR, Argonne National Laboratory, November 1968, 23:13409(R) (ANL-7518)
monthly progress report on, Argonne National Laboratory, 23:4164(R) (ANL-7478)
neutron absorption resonance calculation with Doppler broadening effects in, digital system for, 21:40582 (WAPD-TM-675)
neutron Doppler coefficient in, effects of isotopic composition of plutonium on, 21:21660
neutron energy and flux distributions in thorium blanket of plutonium-239-fueled, (E), 22:44580
neutron flux calculations for, effects of interfaces between resonance—scattering media on, 22:9988(R) (ANL-7391)
neutron flux distribution in fast, comparison of modal and difference method for, (T), 25:25968
neutron flux distribution in fast, solution of two dimensional few group diffusion equations for, 24:11172
neutron flux distribution in sodium-cooled fast, analysis of static and dynamic, 21:17454 (KFK-448)
neutron flux distribution in water cooled, effects of delayed neutron fractions on few group space—time analysis of, (T), 24:28997 (WAPD-TM-938)
neutron flux spectra in fast, effects on fuel cycle parameters of, 24:7131
neutron fluxes in fast, technique for calculating ultrafine adjoint, 23:49651 (ANL-7410, pp 387-442)
neutron fractions for water cooled, BE-21 computer program calculation of effective delayed, 24:28998 (WAPD-TM-941)
neutron leakage effects on fast advantage factor in, (E/T), 21:7930
neutron physics of fast, research on theoretical, 22:15141 (BNL-50057, pp 79-100)
operating experience with sodium cooled, summary of, 24:4070
operation aspects of 1000 MW(e) gas cooled fast, 25:41367 (CONF-710315-15)
operation by U.S. utilities, planning for, 25:34204
operation experience of U.S.S.R., summary of, 25:54136 (A/CONF.49/P-750)
operation in European nuclear power systems, effects on 1970 to 2010 uranium requirements of, 25:44127 (CONF-700903-17)
operation in United States of fast, description of, 22:18527
operation of fast, description of, 22:18501
operation of gas core pinch-fission fast, control and stability analysis of, (T), 25:34331
operation of molten-salt, effects of graphite stability and xenon-135 removal on, 23:4266
operation of power fast, analysis of optimum fuel cycle, 22:37504
operation of, method for, 21:40644(P)
operations aspects for mixed uranium carbide (UC)—plutonium carbide (PuC) fueled liquid sodium cooled, analysis of optimum economic, 25:28664
performance analysis methods for, survey of thermal and hydraulic, 22:42204 (RT/ING-(68)7)
performance characteristics of gas-cooled fast, comparison with liquid sodium-cooled fast breeder reactor of, 23:15610
performance data for conceptual 1000 MW(e) helium-cooled fast, description of, 23:15608
performance of 1000 MW(e) fast-thermal coupled, effects of fuel management on, 21:25661
performance of desalting advanced, analysis of optimum economic, 23:11081 (CONF-680419-, pp 27-40)
performance of fast, effects of multiple enrichment radial core zoning on neutronic and economic, (T), 25:34386
performance of U. S., analysis to year 2000 of thermal, 22:37469
performance of, effects of core parameters on, 25:34385(T) (JPRS-53069, pp 156-65)
performance of, effects of plutonium-239 capture-to-fission ratio on, 22:32791
physics analysis of fast, FARED code development for static, 22:42159(R) (BAW-3867-3)
physics analysis of, evaluation of nuclear data for, 22:27487(R) (LA-3880)
physics calculations for 500 MW(e) fast, effects of region dependent multigroup neutron cross sections on, 24:1975 (AI-AEC-12843)
physics calculations for conceptual gas fueled fast power, 25:5971
physics calculations for fast, development of computer codes for static, 22:48634(R) (BAW-3867-4)
physics calculations for fast, one-dimensional multigroup diffusion AIMPDS-A computer program for, 23:49668
physics calculations for fast, review of research programs for, 24:20621(T) (EURFNR-679)
physics calculations for gas cooled, review of methods and data for, 25:51083(R) (GA-10517)
physics calculations for liquid sodium cooled fast, comparison of methods for, (T), 25:51048 (TRG-Report-2133)
physics calculations for sodium cooled fast, comparison of international, 25:44101 (TRG-Report-2133)
physics calculations for, validity of assumptions in, 21:27709
physics characteristics in Japan for steam cooled fast, advantages and disadvantages, 24:1980
physics measurements for 1000 MW(e) liquid sodium cooled fast, analysis of optimum economic, 23:47177
physics measurements for conceptual 1000 MW(e) fast, performance of FARED calculation method for, 24:13590 (BAW-3867-9(Vol.4))
physics measurements for fast power, FARED computer program development for, 23:23875(R) (BAW-3867-6)
physics measurements for fast steam-cooled, effects of core shape and steam pressure and temperature on, 22:27401 (BNWL-713)
physics measurements for fast, computer programs for calculation of, 22:50841(R) (LA-3993)
physics measurements for liquid sodium cooled fast, effects of core loading and configuration on, 25:31568(T) (EURFNR-823)
physics measurements for plutonium carbide (PuC)—uranium carbide (UC)-fueled 1000 MW(e) LMFBR-type, effects of fuel cycle costs on optimum, 23:4256
physics measurements for, economic and operational aspects of, 21:27751
physics measurements in operating fast-power, 21:30091(R) (ANL-7210)
physics measurements of fast, computer programs for static, 23:40454(R) (BAW-3867-8)
physics of fast, 25:1861
physics of, FARED code for analysis of, 24:11166 (BAW-3867-9(Vol.2))
physics of, FARED code for analysis of, 24:11167 (BAW-3867-9(Vol.3))
physics of, FARED code for analysis of, 24:11165 (BAW-3867-9(Vol.1))
physics parameters for fast steam-cooled, effects of steam pressure and core configuration on optimum, 22:53265 (BNWL-SA-2063)
physics parameters for fast, description of one-dimensional criticality and depletion computer code for calculating, 22:18356(R) (BAW-3867-2)
physics parameters for fast, description of optimum, 22:35505
physics parameters for plutonium oxide fueled fast, 22:32734 (ANL-7310, pp 137-248)
physics parameters for seed-blanket, determination in critical assemblies of, 22:6116
physics parameters for, use of zone-loaded critical experiments for measurement of, 21:32019
physics parameters of 1000 MW(e) uranium oxide (UO_2) fueled liquid sodium cooled, effects of burnup on, 24:43724
physics parameters of, (E/T), 25:60010(T) (EURFNR-902)
physics parameters of, effects of accuracy of calculated constants on, (T), 25:23255(T) (JPRS-52290, pp 1-24)
piping flexibility in liquid metal-cooled fast power, design and analysis of, 22:39812
plutonium fuels for, dose rate calculations for, 22:23247(T) (EURFNR-385)
plutonium production by fast power, effects on fuel economics of predicted, 23:23921
power conversion system for 1000 MW(e) helium cooled fast, design parameters for closed cycle gas turbine, 25:60137 (KFK-1409)
power conversion system for liquid sodium cooled fast power, analysis of chemical compatibility and power cycles for carbon dioxide gas turbine, 23:47228 (ANL-7520(Pt.2), pp 147-53)
power cycles for, thermodynamic analysis of optimum, (T), 25:20596
power cycles of fast, analysis of optimum initial steam conditions for, 22:46949
power excursions in fast, analysis of coupled hydrodynamic—neutronic, (T), 24:47877 (ANL-7610, pp 259-367)
power monitors for, development of all-solid in-core rhodium, 22:14128 (ANL-7380, pp 140-5)
power peaking in, effects of neutron flux distribution on, 22:42284
power shift in sodium cooled fast, effects of long-term operation on, (T), 25:60044
power supplies for, integration of auxiliary and emergency, (T), 22:35484
pressure sensors for, description of miniaturized, 22:14127 (ANL-7380, pp 63-4)
production of plutonium in, comparison of project statistics for, 21:42771
production of plutonium in, economics and power requirements to year 2060, 21:42777
pumps for liquid metal cooled fast, development in France of liquid sodium, 24:52892
pumps for sodium cooled, review of development of coolant, 24:4055
pumps for, design and testing of sodium-lubricated bearings for, 23:11692(R) (NYO-3930-3)
radiation detectors for fast power, design parameters of in-core activation, 25:6044
radiation detectors for use in LMFBR, design of self-powered, 22:12570 (ANL-7380, pp 139)
radiation dose rates from reprocessed fuels from, 22:10322 (KFK-603)
radiation effects on fuel element cladding of fast, 22:32776 (KFK-700(Pt. X))
radiation effects on fuel element cladding of fast, 22:53273(T) (EURFNR-472)
reactivity coefficients of steam-cooled fast, effect of design parameters on, (T), 22:35556
reactivity excursions in fast, comparison of computer programs for modified Bethe—Tait analysis of, 24:16305 (BNL-50117, pp 55-76)
reactivity formulation for analysis of characteristics of, (T), 23:2124
reactivity in liquid metal cooled, effects of sodium coolant boiling on, 21:35612
reactivity in steam cooled fast, effect of steam density at 3600, 2500, and 1200 psi on, 23:31158 (ORNL-TM-2582)
reactivity insertions in modular fast, response to ramp, 21:40611
reactivity measurement in, development of analog ionization chamber for, 25:26014 (ANL-7700)
reactivity multiplication factor and void effect for liquid sodium cooled fast, effects of calculational methods on errors for, 25:8056 (KFK-1180)
reactivity of ceramic-fuel fast, effects of core composition and configuration on, 22:1775 (RT/FI-(67)23)
reactivity of coupled fast-thermal, lifetime characteristics, 21:35613
reactivity of fast, analysis of Doppler effect on, 22:18514
reactivity of oxide-fueled, effects of fuel disintegration on, 21:12178
reactivity of uranium-235 fast, 21:23589(R) (ANL-7308)
reactivity period analysis of, using TERM-1 code, 21:17455 (KFK-462)
reactivity transients in fast, effects of time-dependent feedback on superprompt critical, 24:2006 (KFK-961)
reactivity variations in 1000 MW(e) fast, effects of fuel element bending on, (T), 23:9229(T) (EURFNR-540)
reactivity variations in, sodium void coefficients for, 21:26876(R) (LA-3686)
reactivity void coefficient in, core loading method for reduction of positive, 25:34326(P)
relationship to gas-cooled reactors, 22:1812
research program on fast, at Karlsruhe, 21:12210
research program scheduling using TERM-1 program, 21:30135 (EURFNR-215-F)
response during liquid sodium boiling accidents in, physical models and equations for calculating, 22:53383
role in reactor programs of thorium, analysis of, 23:52357
safeguards problems of plutonium produced in, world-wide, 21:40574 (RM-5148-PR)
safety analysis for large fast, relationship of double containment and aerosol behavior to, 22:7805 (EURFNR-425)
safety analysis methods for, survey on, 22:42204 (RT/ING-(68)7)
safety analysis of German 1000 MW(e) fast, 21:44847 (KFK-613)

- safety analysis of liquid sodium cooled fast, 25:48287 (IRS-T-18(1969), pp 191-4)
- safety aspects of fast, 25:60136
- safety aspects of liquid sodium cooled fast, effects of carbide fueled core on, 24:7157
- safety considerations for fast, 24:18693
- safety features of 1000 MW(e) steam cooled, description of, 25:28634 (NP-18782)
- safety of EURATOM fast, 22:18529
- safety of fused-salt, 21:30168 (ORNL-TM-1858)
- safety of German 1000 MWe steam cooled fast, analysis of, 22:53365
- safety of helium cooled fast, development of criteria for, 24:50153 (CONF-700401-, pp 879-89)
- safety of high temperature gas cooled fast, discussion on, 23:28368
- safety of sodium cooled, health physics aspects of, 25:51153
- safety program for sodium-cooled fast, 22:53356
- safety studies on, (E/T), 25:60010(T) (EURFNR-902)
- safety tests on, design of facility for, 23:45484 (ANL-7520(Pt.1), pp 374-83)
- shielding construction for sodium-cooled, 22:27435
- shielding construction principles for, 22:27434
- shielding for liquid metal cooled fast, design requirements of, 25:1876
- shielding of fast, relationship of core characteristics to problems in, (T), 23:23887
- simulation of steam-cooled fast, use of analog computer for, (T), 22:32770 (KFK-657)
- sodium coolant for, results of water-simulation of ejection of, 23:52388 (KFK-940)
- sodium cooling system for GPU/NR, pipe rupture considerations in, 24:7103
- sodium expulsion due to boiling in, hydrodynamic calculations for, 22:1793
- sodium fires in, studies on energy release and transport during, 22:53352
- sodium void coefficients for conceptual fast, use of critical assembly measurements for analyzing, 23:37468
- sodium void effects in single-zone fast, flux synthesis method for calculating, 22:32734 (ANL-7310, pp 137-248)
- sodium void reactivity calculations for, effects of zone enrichment on, 22:32734 (ANL-7310, pp 137-248)
- stability calculations for steam-cooled fast, 23:21549(T) (EURFNR-583)
- stability of large seed-blanket, 21:38560
- stability of light water, effective delayed neutron fractions for few-group space time analysis of, 24:33260
- stability of operating, effects of nuclear weapon shock waves on, 25:42506(R) (ORNL-4566(Pt.1))
- stability of steam cooled fast, calculation of inherent, 25:31542(T) (EURFNR-813)
- stability of steam cooled fast, calculation of inherent, 25:3856 (KFK-851)
- stability of steam-cooled fast, effects of coolant feedback during accidents on, 22:3829 (EURFNR-406)
- stability of steam-cooled, effect of integrated cooling cycle on, (T), 22:20846
- stability parameters for steam-cooled fast, measurement of, 22:5921 (EURFNR-398)
- steam cycle for gas-cooled fast power, design parameters and flow diagrams for conceptual straight, 23:21507
- steam cycles for 300 MW(e) and 1000 MW(e) liquid sodium cooled fast, analysis of optimum economic, 25:28750
- steam cycles in fast sodium-cooled, economics of, 21:17494
- steam generating systems for very large, conceptual design for sodium-heated, 21:35592 (WCAP-2872)
- steam generator for fast, design of 527 MW(t) sodium-heated, 22:35465 (KFK-654)
- steam generators for sodium cooled, review of development of, 25:23324
- steam generators for, modular design for, 24:7164
- strain gages for, testing of high-temperature electric resistance, 22:12673 (ANL-7380, pp 79-90)
- structural materials for LMFBR, effects of liquid sodium on mechanical properties of, (E), 22:42194(R) (MSAR-68-77)
- structural materials for LMFBR, mass transfer testing in liquid sodium corrosion loops of, 23:43943(R) (GEAP-5719)
- structural materials for, effect of high temperature sodium on mechanical properties of, 21:43089(R) (MSAR-67-149)
- subcriticality of fast, static method for determination of, (T), 24:46015(T) (EURFNR-757)
- technologic experience and problems with liquid sodium cooled fast power, summary of, 23:11152(T) (AEC-tr-6974)
- temperature measurements in LMFBR, development of ultrasonic systems for, 22:28209(R) (NYO-3906-2)
- thermocouple development for, 24:14893 (GEMP-1013, pp 339-78)
- thermocouple development for, 23:30140 (GEMP-1010, pp 260-90)
- thermocouples for, development of, 24:967 (GEMP-1012(Pt.2), pp 253-309)
- thermocouples for, testing at 2300°C for 1000 hours of tungsten and tungsten/rhenium, 23:35565
- thermometry program for LMFBR, summary of, 23:16189 (ORNL-4335, pp 60-71)
- transfer functions of coupled, high frequency measurements of, 21:17457 (LA-DC-8299)
- transients in large, effects of space-time perturbations with feedback on, 24:7324
- transients in, analysis of spectral effects on, 24:7344
- turbine cycles for integrated carbon dioxide-cooled fast power, design characteristics of direct and indirect, 23:28539
- turbines for helium cooled fast, characteristics of gas, 24:36055 (EIR-181)
- types of, summary of, 21:25644
- ultrasonic thermometry for LMFBR-type, testing of, 22:53281(R) (NYO-3906-3)
- use for desalting, 21:23705(R) (ORNL-4087)
- waste from, estimation of, 23:356 (ORNL-4272, pp 72-91)
- xenon diffusion in graphite in molten-salt, 21:21918 (ORNL-4076, pp 1-54)
- xenon spatial stability in large seed-blanket, 21:30176 (WAPD-TM-606)

REACTORS, CANADA

- see also CANDU Reactor
- see also Gentilly Power Reactor
- see also NPD Reactor
- see also NRU Reactor
- see also NRX Reactor
- see also Pickering Power Reactor, Unit 1
- see also Pickering Power Reactor, Unit 2
- see also Pressurized Heavy Water Reactor
- see also Reactors, CANDU-type
- see also ZEEP
- auxiliary and emergency systems of, safety requirements of, 25:41266 (EUR-4517, pp 57-84)
- construction for foreign country markets, 25:28718
- containment structures for power, construction of air tight concrete, 24:5513
- containment systems of, safety requirements of, 25:41266 (EUR-4517, pp 57-84)
- control of, use of digital computers for, 23:40310
- control system performance for natural uranium heavy water moderated, 21:34128
- control systems for, development of, 25:39154 (IAEA-119, 12p.)
- control systems of, performance of automatic, 25:34204
- coolant economics for heavy water-moderated and -cooled power, analysis of, 22:30250
- cooling system of pressurized heavy water cooled, design requirements for downflow thermal siphoning, 24:20559
- cooling systems of, safety requirements of, 25:41266 (EUR-4517, pp 57-84)
- design for foreign country markets, 25:28718
- design of CANDU-BLW type, 21:46896
- development and economics of power, 21:19408
- development during 1968—1969, review of, 23:37358(R) (AECL-3326)
- development forecast for, economic aspects of, 23:45091 (AECL-3367)
- development of 0.5 to 30 MW(e) boiling water, pressurized water, and superheating, economics for predicted 1976 to 1980, 23:37411
- development of optimum cost analysis for power, 25:53929 (A/CONF.49/P-149)
- development of power, description of, 23:5986
- development of power, review of present and future, 23:23846
- development of research and power, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
- development of, engineering aspects of, 21:13944 (AECL-2830)
- development of, review of, 24:47701
- development program for heavy water-moderated water-cooled boiling natural uranium-fueled, description of, 23:2003
- development program for power, analysis to 1978, 22:42226
- development program for power, description of AECL participation in, 22:42148 (AECL-3067)
- development program for power, description of AECL research in, 22:42151 (AECL-3067, pp 35-43)
- development program for power, description of AECL research in, 22:42354 (AECL-3067, pp 21-8)
- development program for, description of, 22:32902
- development program of power, analysis of economics for, 22:42149 (AECL-3067, pp 1-19)
- development programs for gas-cooled and water-cooled, description of, 22:42212 (TRG-Report-1695)
- economics of heavy water moderated power, effects of heavy water characteristics on, 24:11116
- electrical systems for, reliability analysis of, 25:41266 (EUR-4517, pp 57-84)
- electrical systems for, safety requirements and reliability standards for, 25:41270 (EUR-4517, pp 235-41)
- environmental monitoring near, April 1967, 21:39051 (NP-16878)
- environmental monitoring near, May 1967, 21:39053 (NP-16971)
- environs monitoring at, during 1967, 22:4606 (NP-17146)
- environs monitoring at, during June 1968, 23:12065 (NP-17691)
- environs monitoring at, February 1968, 23:4748 (NP-17505)
- environs monitoring at, Jan. 1968, 23:4747 (NP-17498)
- environs monitoring at, March 1968, 23:4929 (NP-17515)
- environs monitoring for, April 1968, 23:4749 (NP-17653)
- environs monitoring in vicinity of, during January 1966, 21:43367 (NP-17029)
- environs monitoring of Canadian, during January 1967, 21:26415 (NP-16730)
- environs monitoring of, during 1967, 21:32650 (NP-16802)
- environs monitoring of, during June 1966, 21:10868 (NP-16324)
- environs monitoring of, during June 1966, 21:10870(R) (NP-16383)
- environs monitoring of, during June, 1967, 22:2505 (NP-17042)
- environs monitoring of, during May 1966, 21:10869 (NP-16371)
- environs monitoring of, in 1966, 21:1742 (NP-16325)
- environs monitoring, March 1967, 21:45616 (NP-16900, pp 35-44)
- fuel assemblies of heavy water-moderated, analysis of performance of Zircaloy-2 uranium oxide (UO_2), 22:30263
- fuel cycles for power, analysis of optimum economic, 22:42154 (AECL-3067, pp 61-4)
- fuel cycles in heavy-water moderated, economics of plutonium, 24:11143
- fuel elements in boiling and pressurized-water, analysis of burnup of Zircaloy-clad uranium oxide (UO_2), 22:32894
- fuels for, costs and methods of producing, 21:8128
- fuels for, isotopic composition of natural uranium, 21:21621 (AECL-2631(Rev.))
- industrial investments for development of power, 25:53887 (A/CONF.49/P-155)
- instrumentation for, development of, 25:39154 (IAEA-119, 12p.)
- loading machines for, development of digital computer controlled, 25:39154 (IAEA-119, 12p.)
- monitoring of environment of, during May 1968, 23:7999 (NP-17647)
- monitoring of environment of, during November and December 1968, 23:33693 (NP-17914)
- monitoring of radioactive noble gases in atmosphere near, 21:43053 (AECL-2696)
- operation experiences of heavy water moderated power, review of, 24:18567
- operation of power, review of, 25:53928 (A/CONF.49/P-148)
- operation of, availability and reliability requirements for optimum, 25:41266 (EUR-4517, pp 57-84)
- performance of heavy water-moderated, systems design for economic, 22:32903
- performance of power, comparison of, 22:48656 (RT/EC-(68)1)
- performance of, review of, 25:34204
- physics measurements for dual-purpose heavy water-moderated natural uranium oxide (UO_2)-fueled power, description of, 22:30240
- protection systems for power, reliability analysis of, 25:5936 (RISO-214, pp 127-69)
- radiation dose to personnel of, during 1967, β and γ, 22:33806 (AECL-3063)
- radiation monitoring in environment of, during 1967, 22:38258 (NP-17119)
- radioactivity in milk samples from environs of, during December 1966, 21:20177 (NP-16654)
- research uses of Canadian, 25:50193 (AECL-3907)
- safety of, review of criteria for, 25:54142 (A/CONF.49/P-150)
- safety standards for power, 25:5936 (RISO-214, pp 127-69)
- siting of power, evaluation of basic safety philosophy and its application to, 23:37362 (CONF-681101-34)
- siting of, requirements for, 22:18429

REACTORS, CANDU-TYPE

- see also CANDU Reactor
- see also Kalpakkam Power Reactors
- see also RAPP Power Reactor
- breeding performance of thorium oxide (ThO_2)—uranium oxide (UO_2)-fueled, WATCH-TOWER-3T computer program for effects of lattice configuration on, 23:19480
- buildings and facilities for power, design economics of, 22:48710
- control absorber elements in, neutron density distributions in, 21:35539 (AECL-2694)
- control system for conceptual EL 600, 25:34329 (CEA-N-1421)
- coolant loss accident conditions in, finite difference method for calculation of transient two phase compressible flow during, (T), 25:8083 (AAEC/TM-558)
- coolant loss accidents in, PRESCON code for containment pressure transients from, 25:57087 (CONF-710302-(Vol.1), pp 436-51)
- coolants for, review of developments in liquid metal, 25:11343 (AECL-3778)
- cooling system for, design requirements and performance of valves for primary, 25:37002 (AECL-3858)
- cost analysis for, development of optimum, 25:53929 (A/CONF.49/P-149)
- cost analysis for, review of development, operating, and fuel cycle, 25:51126
- cost of 1000 MW(e), factors affecting, 21:13942 (AECL-2534(Rev.))
- description of BLW-250, 22:30233
- design characteristics of, 25:48255 (CONF-680989-, pp 52-9)
- design characteristics of, 25:28544
- design parameters of, calculation of optimum economic, 24:43778 (UJV-2413-RT)
- development in Brazil of power, analysis of optimum economic, 24:3990 (IEA-142)
- development in Canada of 100 to 400 MW(e) heavy water moderated, review of economics for, 23:37412
- development in Canada, industrial investments for, 25:53887 (A/CONF.49/P-155)
- development in South Africa of, economics for, 23:19506
- development of, 21:41292(R) (NP-16972)
- development of pressurized heavy water power, review of, 24:24787
- development of, analysis of optimum economic, 24:24847 (AECL-3553)
- development of, predictions of future, 23:13423
- development of, problems with, 24:46003
- development of, review, 21:15684
- development prospects for, 24:45992 (AECL-3660)
- development status of, 22:16212
- economics of, 22:16106 (AECL-2795)
- economics of, 22:16212
- economics of, comparison of cooling systems for, 25:54124 (A/CONF.49/P-151)
- economics of, comparison with other reactor types of, 25:15240
- economics of, RECAL code for calculation of, 25:23298 (UJV-2412.R,T.)
- economics to year 2000 in Canadian power stations, 22:35416 (AECL-3083)

electricity from, production of commercial, 22:12038
fission energy release in, analysis of mass balance for, 22:37400 (AECL-3109)
fuel burnup in, digital computer program for calculation of, 25:12797 (IEA-186)
fuel burnup in, methods for analysis of, (E/T), 25:60093 (AECL-3995)
fuel channels for, configuration of improved annular-space gas-insulated pressure vessel-penetrating pressurized and sealed, 22:42289(P)
fuel channels for, development of, 22:35419 (AECL-3126)
fuel cladding failure in, γ spectrometer coolant monitor for detecting, 22:9984 (AECL-2786)
fuel cycle costs for, effects of various supply schemes on, (T), 25:1905
fuel cycles for, 21:15644 (CONF-660221-, pp 283-6)
fuel cycles for pressurized heavy water, effects of plutonium recycle on optimum economic, 25:60092 (AECL-3910)
fuel cycles for, cost factors for thorium, 25:48255 (CONF-680989-, pp 52-9)
fuel element critical heat flux limits for BLW-250, 21:40635
fuel element cycle management for, calculation of optimum, 25:3866 (CEA-N-1379)
fuel element dump tank for, description of shielded integral, 23:45064(P)
fuel elements for, burnup of, (E/T), 25:41283
fuel elements for, burnup performance of deflected Zircaloy 2-clad uranium silicide (U_3Si), 23:4249
fuel elements for, cover and fission gas analysis procedures for, 25:10227
fuel elements for, fabrication and operation cost analysis for uranium oxide (UO_2), 25:53888 (A/CONF.49/P-156)
fuel elements for, fabrication costs for, 25:20731 (AECL-3780)
fuel elements for, neutron spectra in lead—bismuth cooled, (E), 24:13540 (AECL-3192)
fuel requirements for, relationship of Canadian nuclear fuel industry growth to, 23:37549
fuel tubes for, comparison of fabrication methods for zirconium alloy, 24:16202
fuels for, predicted economics in Canada of uranium oxide (UO_2), 23:31098 (AECL-3114)
fuels for, properties of uranium silicide, 21:34073 (AECL-2874)
fuels for, review of management methods of, 24:11134
heat transfer characteristics of boiling water and pressurized heavy water cooled, (E/T), 25:1865 (AECL-3691)
maintenance of, freeze blocking moderator of tubes for, (E), 25:31537
marketing of, problems of, 25:53884 (70-CNA-647)
moderator voids from coolant pressure tube failure in, reactivity effect of, (E/T), 22:20775 (AECL-3002)
operation economics and efficiency of, 21:44884
operation in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
operations history for, review of, 24:47706 (AECL-3569)
performance of, physics and dynamics calculation methods for, 24:40906 (AEEW-R-691)
physics measurements for conceptual 600 MW(e) EL 600, 25:12775 (CEA-N-1395)
physics parameters for, 23:19466
plutonium fuels for, future requirements for, 22:42157 (AECL-3136)
power production from, projection of economics to year 2000 of, 23:4158
pressure tubes for, description of ultrasonic-controlled electrochemical finish machining system for, 23:21479 (AECL-3252)
pressure tubes for, metallurgical properties of niobium—zirconium-base alloy, 25:52385 (A/CONF.49/P-159)
refueling of, effects on lattice reactivity, 21:30246 (AECL-2667)
stability of 250 MW(e) prototype CANDU—BLW, design criteria for, 24:16161 (BNL-50117, pp 365-79)
stability of, effects of xenon oscillations on, 24:16097
thermal efficiency of, economic effects of improvements in, 23:45094 (AECL-3332)

Reactors, Circulating-Moderator
see Reactors, Homogeneous

Reactors, Converter
see Reactors, Breeder

Reactors, Coupled
see Reactors, Power

Reactors, Dust-Fueled
see Reactors, Fluid-Fueled

Reactors, Electric
see Electronic Equipment

REACTORS, ENRICHED
see also Argonne Research Reactor
see also Bulk Shielding Facility
see also Experimental Breeder Reactor
see also Los Alamos Power Reactor Experiment
see also NRL Research Reactor
development in Yugoslavia of, economics for, 22:24995

REACTORS, FAST
see also Aberdeen Fast Pulse Reactor Facility
see also Argonne Fast Reactor Experiment Test
see also Argonne Fast Source Reactor
see also BN-350 Reactor
see also BN-600 Reactor
see also BOR-60 Reactor
see also Cadarache Reactors (Rapsodie)
see also Dounreay Fast Reactor
see also Experimental Breeder Reactor
see also Experimental Breeder Reactor-II
see also Fast Ceramic Reactor
see also Fermi Fast Breeder Reactor
see also Japanese Experimental Fast Reactor
see also Liquid Metal Fast Breeder Reactor
see also ORNL Fast Burst Reactor
see also PEC Fast Test Reactor
see also Phenix Fast Reactor
see also Prototype Fast Reactor
see also Southwest Experimental Fast Oxide Reactor
see also Weisweiler Power Reactor
see also ZEBRA
accelerator-booster targets of pulsed research, neutron yields from, (E), 22:18557 (GA-8087)
accident analysis code for, capabilities and limits of SAS1A, 23:40426 (CONF-690401-, pp 51-4)
accident analysis for, summary of computer programs for, 25:54203 (HEDL-TME-71-30)
accident analysis for, using computers, 21:7856(R) (ANL-7255)
accident analysis in, induced by coolant—flow—loss and reactivity increases, 21:12139 (GEAP-4787)
accident analysis of pulsed, numerical method for, 21:14099
accident analysis of, computer development for, 21:13947(R) (ANL-7286)
accident conditions in sodium cooled, aerosol and particulate release and transport under, 24:20579 (NP-18150)
accident conditions in, behavior of uranium oxide (UO_2) aerosols from, 24:26791 (KFK-1032)
accident in breeder, analysis of energy release for maximum hypothetical, (T), 24:43790 (JAERI-1188)
accident simulation for, use of chemical explosives for rapid energy release, 22:22655 (AWRE-R-5/65)
accidents in breeder power, Bethe—Tait model analysis of severe, 24:47879(T) (EURFNR-748)
accidents in breeder power, Bethe—Tait model analysis of severe, 24:29037 (KFK-1057)
accidents in breeder, analysis of aerosol release for, 25:31617
accidents in breeder, properties of uranium dioxide aerosols produced in, 23:29017
accidents in coupled-core, parametric analysis of hypothetical, 23:28535
accidents in gas cooled, calculated effects of reactivity insertions simulating, 24:7151
accidents in gas cooled, effects on core structures of severe, (T), 25:51151
accidents in large power, theoretical analysis of maximum, 21:7989
accidents in large sodium cooled, effects of core configuration on explosive yield during, 22:53390
accidents in liquid metal cooled breeder, analysis of sodium combustion, 25:31568(T) (EURFNR-823)
accidents in liquid sodium cooled breeder, analysis of aerosol release for, 25:31618
accidents in liquid sodium cooled, effects of fuel element failures and coolant flow blockage on, 25:60117 (KFK-1380)
accidents in liquid sodium-cooled breeder, plutonium oxide (PuO_2)—sodium—uranium oxide (UO_2) aerosol behavior simulation for, 22:53262 (BNL-12757)
accidents in pulsed SORA-type, theoretical models for analysis of maximum hypothetical, 22:35644
accidents in sodium cooled, air cleaning processes for use following, 23:24415(R) (NYO-841-16)
accidents in sodium cooled, limitation of hypothetical, 25:57072 (CONF-710302-(Vol.1), pp 1-24)
accidents in sodium, acoustic and inertial constraints for molten fuel and liquid sodium interaction, 25:6099
accidents in sodium-cooled breeder, properties of uranium dioxide aerosols produced by, 23:29018
accidents in sodium-cooled, measurement of liquid superheat required for nucleation during, 21:38515
accidents in zoned, analysis of maximum credible, (T), 23:4283
accidents in zoned, method for treatment of discontinuous derivatives at interfaces for hypothetical maximum energy release, 23:49572 (ANL-7410, pp 229-337)
accidents in, behavior of fission product aerosols following, 25:12768(R) (EURFNR-855)
accidents in, behavior of fission product aerosols following, 24:24785(R) (RCN-114)
accidents in, behavior of oxide fuel aerosols from, (E/T), 24:4072 (BNL-14070)
accidents in, calculations for energy release of, (T), 25:6065
accidents in, calculations of energy release of implosion, (T), 25:6066
accidents in, digital computer system for analysis of, 24:31041(R) (BNWL-1381-1)
accidents in, phenomenological description of events during hypothetical, 23:49572 (ANL-7410, pp 229-337)
accidents in, properties of aerosols produced by, 23:29019
accidents in, properties of uranium dioxide aerosols produced by, 23:29018
accidents in, review of U.S. safety programs on, 25:60132
accidents in, severity level criteria for, 25:8088 (BNWL-SA-3093(Vol.1), pp III.1-27)
accidents, dispersion of sodium oxide aerosols from, 21:43552 (BNL-50068)
adjoint function for liquid sodium cooled, heterogeneity effects on, (T), 24:43720 (RT/FI-(70)19)
aerosols in, effects of accident conditions on distribution of high number density, (T), 24:7311
aerosols released in accidents in liquid metal cooled, characteristics of, 24:52949 (EURFNR-816)
analysis of heat transfer in cores of, using subsonic turbulent air, 21:12581
analysis of plutonium-fueled, effects of reactivity variations on, 22:53387
availability of, effects of core instrumentation on, 22:32872
bibliography on, 21:35586 (STI/PUB-21/22)
bibliography on breeder, 1966 to 1969, 25:15340 (NEIC-RR-41)
blanket for, evaluation of molten uranium chloride mixtures for use as, 21:5840 (LA-3579)
blanket management scheme for breeder, development of optimum, 23:28500
blanket optimization of 1000 MW(e) steam-cooled breeder, alteration of 26-group-ABN-set for few-energy-group, (T), 22:44864
blankets for fluid-fueled, analysis of optimum economics for sodium—uranium nitride (UN) paste-type, 23:13501 (ANL-7475)
blankets for, critical size and eigenvalues for, 21:1188
blankets for, MIT Research Reactor facility for simulation of, 24:22450 (MIT-4105-2)
blowers for steam-cooled breeder power, design criteria for optimum steam, 23:17197
boiler for superheating power breeder, performance of spray type, 23:28480
boilers for breeder, development in Japan of liquid metal heated, 25:18133
boilers for liquid metal cooled, development in France of, 24:52898
boilers for liquid metal cooled, development in Netherlands of, 24:52896
boilers for liquid sodium cooled breeder power, design and construction of high power test loop for, 24:52954
boilers for liquid sodium cooled breeder, development of module type, 25:23326
boilers for liquid sodium cooled, design and development of, 24:52899
boilers for liquid sodium cooled, development in France of, 24:52909
boilers for liquid sodium cooled, development of leak detectors for, (E/T), 25:1878(T) (ANL-Trans-857)
boilers for liquid sodium cooled, heat transfer and pressure drop characteristics of once through evaporators of, 24:52905
boilers for prototype liquid metal cooled breeder, development in Japan of, 24:52897
boilers liquid metal cooled, testing program for liquid sodium, 24:52903
book: Fast Neutron Reactor Technology, 24:18598
book: Fast Reactor Technology: Plant Design, 21:17506
book: Fast Reactors, 21:30230
breeding blankets for, optimization of radial urania, 21:30209
breeding performance in low flux spectrum of, effects of plutonium-239 and uranium-235 capture-to-fission ratio on, (E/T), 24:18729
breeding potential for thorium—uranium-233-fueled, analysis of, (E/T), 22:47051
breeding ratio for, definition of, (T), 24:50091
breeding ratio for, definition of, (T), 24:50090
breeding ratio in, definition and evaluation of, 24:7278
breeding ratio of, algorithm for optimization of, 23:52326(T) (JPRS-48331, pp 456-60)
breeding ratios in, effect of increases in plutonium-239 capture cross sections on, (T), 23:17182 (ORNL-TM-2459)
burnup in plutonium fueled, DTF-BURN computer program for, 23:47183 (CNM-R-2(Vol.3), pp 1371-83)
burnup in, PYGMY computer program for, 24:22496 (EURFNR-739)
cladding materials for liquid metal-cooled, radiation effects on mechanical properties of, 21:32951(R) (BMI-1798)
component development for breeder, 21:7943
component response to internal explosions, effects of rapid strain rate on stainless steel, 23:26482 (EUR-4101, pp 211-16)
component testing for, nondestructive methods for, 24:25229 (ANL-7417, pp 41-7)
components and structures of sodium-cooled, niobium-base alloy composition for, 23:33941(P)
components for breeder, design requirements in Japan for, 25:18113
components for conceptual 500 MW(e) liquid sodium-cooled breeder, 23:19465 (NP-17784)
components for prototype liquid sodium cooled breeder, development problems in Japan with, 25:18115
components for sodium cooled, CNEN development program for, 24:16226
components for, design of container for shipping of irradiated, 25:44568 (LA-4686)
components for, electron beam welding of, 21:11197 (KFK-404)
components of breeder, testing programs for, 23:13519(R) (AI-AEC-12721)
components of, fast-neutron radiation effects on mechanical properties of Type 304 stainless steel, (E/T), 23:5084 (BNWL-SA-1876)
conference on, Obninsk, USSR, 1967, 23:52305(T) (JPRS-48330)
conference on, Obninsk, USSR, 1967, 23:52451(T) (JPRS-48331)
configuration of 1080 MW(e) plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled superheating, description of optimum, 22:50757
configuration of liquid sodium-cooled, analysis of electrical and mechanical design problems in, 22:48712
configuration of rocket, 22:39865 (N-68-19830)
construction and design problems of sodium cooled, 22:16196
construction in United Kingdom, program for, 25:57012
construction of liquid sodium-cooled, analysis of engineering and design problems in, 22:48711
construction of liquid sodium-cooled, description of quality control methods during, 22:30205
construction of sodium cooled, requirements and problems in, 25:60007 (CONF-710922-1)
containment for Karlsruhe prototype sodium cooled breeder, safety analysis of, 22:18450
containment for sodium cooled, design criteria for, (T), 25:28739 (RT/ING-(70)25)
containment structure for liquid sodium cooled, design of roof for, 24:36014(P)
containment structure for liquid sodium cooled, description of liquid sodium thermal insulation for, 25:10199(P)

containment structure penetrations for sodium cooled, problems of design of, 22:16197
containment structures for sodium cooled, problems of analysis of complex, 22:16197
containment system design for 1000 MW(e) steam cooled, effects of maximum credible accident on, (T), 25:28738 (NP-18781)
containment system for liquid metal cooled, effects of high energy excursion on two-dimensional hydrodynamic response of primary, (T), 24:29033 (ANL-7498)
containment system for, safety and cost feasibility of new, 21:25689
containment system leak rate for design basis accident in liquid metal-cooled breeder, agglomeration modeling for effects of aerosol particle size on, 23:23938 (CONF-680821-, pp 330-4)
containment systems for breeder, effects of vented plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel elements on design of, 23:47090 (ANL-7520(Pt.2), pp 154-66)
containment systems for, computer program for calculating accident loadings to evaluate, 24:16213 (BNWL-1166)
containment systems of, analysis of aerosol behavior of, 21:31921 (CONF-660904-Vol.1 and 2, pp 626-45)
containment systems research for, 21:40531 (ANL-7290, pp 188-215)
containment technology for, analysis of, 22:50812 (TID-24706)
containment vessel for, analysis of leakage after excursion from, 21:30137 (EURFNR-289)
containment vessel material for, liquid sodium corrosion and erosion tests on, 21:43602
control aspects of breeder, 21:10133(T) (EURFNR-102-F)
control by digital computers, development by LMFBR Computer Control Center, 21:34080 (BNWL-SA-1129)
control by variation of coolant neutron cross section, 21:25697(P)
control by variation of moderating fluid in core of, 21:23674(P)
control characteristics for Na 2, effects of correct dead time simulation on automatic, 25:10186 (KFK-1179)
control devices for, effectiveness of absorber materials in, 23:52330(T) (JPRS-48331, pp 301-42)
control drum worth for rocket, calculation of, 23:2090 (N-68-30750)
control element design for, 21:15811(P)
control element locations in cores of, effects on breeding ratio and fuel temperature of, (T), 25:60045
control elements for 300 MW(e) oxide fueled, calculation of antishadowing and shadowing effects on reactivity worth of, 23:37471
control elements for liquid metal cooled breeder, description of gas venting capillary valve for rod type, 25:10189
control elements for liquid metal-cooled, description of multiple vertical core surrounding shutter-actuated graphite bar, 23:23884(P)
control elements for liquid metal-cooled, description of overhead, 22:10052(P)
control elements for power, methods for design of, 23:43119
control elements for, characteristics of boron carbide (B_4C), 24:33280
control elements for, description of improved neutron absorber- and moderator-type, 22:14224(P)
control elements for, description of overhead thermal expansion actuated drives for, 23:28451(P)
control elements for, description of pump regulated liquid filled tube type, 24:33278(P)
control elements for, gripping device for handling, 25:60259(P)
control elements for, properties requirements of materials for, 25:37140 (SRARI-P-96)
control elements for, reactivity worth and γ heating of tantalum, (E), 24:46011(R) (AI-AEC-12969)
control in Japan of, use of digital computers for, 23:40344
control materials for, development of boron carbide, 25:2790 (ORNL-4570, pp 98-102)
control of coupled, state-variable feedback means of, 21:17458 (LA-DC-8352)
control of liquid sodium cooled power, use of hybrid computer analysis of cooling system dynamics for, 23:49548(T) (ANL-Trans-771)
control of rocket, evaluation of reflector-based, 21:12218 (ANL-7099)
control of sodium cooled, instrumentation development for, 25:28667 (HEDL-SA-170)
control of, method for Doppler coefficient, 21:8173(P)
control rod calibration in, using multigroup diffusion theory, 22:35469 (PNR/SETR-R.-022)
control rod drives for conceptual liquid sodium cooled breeder power, testing of, 24:1981
control rod drives for liquid sodium cooled breeder, environment testing of magnetic jack, 23:37487
control rod for steam cooled breeder, description of ejection preventing safety lock for, 25:54068(P)
control rod installation in fuel element channel of, description of, 22:10028(P)
control rod location and management for 1000 MW(e) superheating breeder D-1, calculation of optimum, (T), 22:53274 (EURFNR-544)
control rod worth calculations for, numerical comparison of diffusion and transport programs for, 23:31156 (BNWL-992)
control rods drive mechanism for, design of, 21:44907(P)
control rods for liquid metal cooled, development of capillary valve for ventilation of, 25:39244
control rods for steam cooled breeder, design criteria for, 22:53367
control rods for, method for minimizing effects on Doppler coefficient of, 23:37701
control system design for breeder, with tube carrying liquid control material through core, 21:46920(P)
control system of steam cooled superheating, description of movable blanket fuel assemblies for, 24:18624(P)
control systems design for large sodium-cooled, 21:17505
control systems for breeder, development in Japan of, 25:18120
control systems for liquid sodium-cooled, use of variable lithium concentration for spectral shift, 22:16246(P)
control systems for multi-zone cylindrical rocket, description of yttrium hydride self-regulating, 22:46999 (N-68-24559)
control systems for Na-2, analysis of real dead-time effects on computer simulation of automatic, 25:28804(T) (EURFNR-835)
control systems for, design of fluid, 22:1832
control systems using reflector motion in high temperature space power, reactivity and power variations from, (E), 24:13619
coolant accident in liquid sodium-cooled, analytical methods for analysis of sodium fires during, (E/T), 23:13521 (AI-AEC-12721, pp 111-29)
coolant activation in liquid metal-cooled, effect on shielding of lithium, potassium, and sodium, (T), 22:39782 (N-68-20355)
coolant behavior in sodium-cooled, 24:940(R) (AI-AEC-12817)
coolant boiling and flashing in, safety analysis of liquid sodium, 22:20834
coolant boiling for liquid sodium-cooled, analysis of coolant expulsion and pressure transients from, 22:53374
coolant boiling in breeder, analysis of transient sodium, (T), 21:13945 (ANL-7222)
coolant boiling in liquid metal-cooled, analysis of superheating and bubble nucleation from transient, (T), 23:15667
coolant boiling in liquid sodium cooled breeder, detection methods for, (T), 25:3864
coolant boiling in liquid sodium cooled, acoustic standing wave method for detection of, 25:41443
coolant boiling in liquid sodium cooled, analysis of, (E), 24:22432 (RT/ING-(69)29)
coolant boiling in liquid sodium cooled, characteristics of, (E/T), 24:29004(T) (EURFNR-701)
coolant boiling in liquid sodium cooled, effects of fuel element failures and coolant flow blockage on, 25:60117 (KFK-1380)
coolant boiling in liquid sodium cooled, effects of noncoherence on, (T), 24:7111
coolant boiling in liquid sodium cooled, neutronic-acoustic detection system for, 25:54078
coolant boiling in liquid sodium cooled, safety aspects of, 23:47215 (ANL-7520(Pt.1), pp 12-16)
coolant boiling in liquid sodium cooled, SAS1A computer program calculations of, 24:47877 (ANL-7610, pp 259-367)
coolant boiling in sodium cooled, acoustic detection of, (E), 25:37052
coolant boiling in sodium cooled, MULTI-TRABLL code numerical solutions of transient, 25:51066 (JAERI-13682)
coolant boiling in sodium cooled, MULTI-TRABLL code for transient, 25:51065 (JAERI-13611)
coolant boiling in sodium cooled, time for thermal process propagation of, (T), 25:23320
coolant boiling in sodium cooled, TRABLL code for transient, 25:51064 (JAERI-13602)
coolant boiling in sodium-cooled breeder, analysis of voiding effects in transient, 21:17495
coolant boiling in sodium-cooled, core conditions affecting, 22:37403(T) (ANL-Trans-625)
coolant boiling in, analysis of liquid sodium, (T), 24:33292
coolant boiling in, hydrodynamics and thermodynamics of liquid sodium, (E/T), 25:15382
coolant channels in, solution to heat transfer equations for calculating temperature distribution across, 22:46959
coolant channels of, transient vaporization of sodium in, 21:30091(R) (ANL-7210)
coolant combustion in liquid sodium cooled breeder, analysis of sodium oxide (Na_2O) aerosol release for, 23:37589
coolant combustion in sodium cooled, aerosol release and transport from, (E/T), 25:31615
coolant combustion in sodium cooled, energy release from, 25:8101 (BNWL-SA-3093(Vol.2), pp XIX.1-43)
coolant combustion in sodium cooled, release of fission products from, (E/T), 25:51030(R) (NAA-SR-12492)
coolant cross mixing in steam-cooled power, effects of natural turbulence on, (T), 23:17185
coolant depressurization incidents in gas cooled, performance of emergency core cooling systems following, (T), 25:20767
coolant dynamics for sodium-cooled, 21:42725(R) (ANL-7357)
coolant effects on excursions in, calculation of liquid sodium, 23:4284
coolant ejection from fuel elements in Na-2, simulation of sodium, 23:52380(T) (EURFNR-628)
coolant ejection from pulsed liquid metal cooled, effects of acoustic waves on, 22:12093 (EUR-3654)
coolant ejection mechanisms for liquid metal-cooled breeder power, computer program models for analysis of, (T), 23:19515
coolant expulsion dynamics for liquid sodium cooled breeder, nonmetallic fluid simulation of, (E), 24:38583
coolant expulsion from sodium cooled, dynamic mechanisms for, 25:8092 (BNWL-SA-3093(Vol.1), pp IX.1-38)
coolant failure in sodium-cooled, chemical reactions from, 21:46837 (ANL-7325, pp 136-78)
coolant flow for, ETNA-code for analysis of two-phase transient sodium, 22:42205 (RT/ING-(68)10)
coolant flow in breeder, effects of fuel element deformation and spacing on velocity and temperature distribution in turbulent, (T), 24:18652 (KFK-964, Sect. 5.1-12)
coolant flow in liquid sodium cooled, design and testing of fuel element thermostat for control of, 24:52862
coolant flow in open duct of radial blanket of breeder, performance of, (E/T), 25:51078
coolant flow in triangular fuel rod clusters of, temperature and velocity distribution in turbulent liquid sodium, (T), 25:15363
coolant flow in, analysis of laminar and turbulent, (E/T), 23:52339(T) (JPRS-48331, pp 601-50)
coolant flow in, distribution of argon in sodium, 24:39133 (RD/B/N-1630)
coolant flow in, mechanics of two-phase critical, 22:4347
coolant flow meters for liquid sodium cooled, development of electromagnetic, 25:23279
coolant flow through breeder fuel clusters in, method for control of, 25:28649(P)
coolant flow transients in liquid metal cooled, effects of gas release from fuel subassembly failure on, (E/T), 25:25971 (ANL-7651)
coolant flow transients in, effects of rapid fission gas release on, (E/T), 25:39278
coolant for liquid metal cooled breeder, safety problems with liquid sodium, 25:37011
coolant for liquid metal cooled, purification techniques and equipment for liquid sodium, 25:18128
coolant for liquid metal-cooled breeder, advantages and disadvantages of liquid sodium, 23:15632
coolant for liquid metal-cooled, boiling mechanisms in forced-convection of, 23:15636
coolant for liquid sodium cooled, solubility of inert gases in, (E/T), 25:15379(T) (EURFNR-785)
coolant for, discrete ordinates study of neutron attenuation in sodium, 23:4199
coolant for, heat transfer and aerosol characteristics of liquid sodium, 25:51031(R) (RCN-143)
coolant for, method for determining hydrogen and oxygen content in, sodium, 25:18863
coolant for, thermodynamic data analysis of cesium for, 21:31001 (ORNL-TM-1755)
coolant impurities in, microwave detection of, 21:31903(R) (BNWL-CC-500)
coolant level in liquid metal-cooled, description of NaK-filled kerosene-insulated cylindrical ultrasonic gage for measurement of, 22:42292(P)
coolant loops for, design of sodium, 21:17476(T) (NP-tr-1491)
coolant loss accident conditions for direct cycle gas turbine gas cooled, computer program analysis of, 25:20765
coolant loss accident conditions in gas cooled power, analog computer simulation of, 24:46073
coolant loss accident for gas cooled breeder, cooling system response to, 25:41494
coolant loss accidents in helium cooled breeder, analysis of core meltdown following, 24:50154 (CONF-700401-, pp 890-906)
coolant loss accidents in liquid sodium cooled, analysis of Bethe-Tait type excursions from, 25:15381
coolant loss accidents in sodium cooled, methods for simulation of, 25:8096 (BNWL-SA-3093(Vol.2), pp XII.1-126)
coolant loss accidents in, characteristics of aerosols from sodium, 23:37562 (NYO-841-18)
coolant loss accidents in, effects on fuel elements of liquid sodium, 22:53381
coolant mixing in fuel element bundles of liquid sodium-cooled, analytic methods for determining, (E/T), 22:35476 (WASH-1096)
coolant of liquid sodium cooled breeder, measurement of incipient boiling characteristics of liquid sodium, (E), 24:18687 (KFK-964, pp Sect. 8.1-12)
coolant pump power failure in 3500 MW(t) sodium-cooled bare-metal breeder, flywheel-augmented flow coastdown following, (T), 22:37449 (ORNL-TM-2132)
coolant pumps for breeder, systems considerations in design of sodium, 23:28450
coolant purity in, requirements for sodium, 21:34114 (NAA-SR-Memo-12394)
coolant slug impact in liquid metal cooled, analysis of accident condition, 25:41483
coolant slug-type ejection from asymmetrically heated channels, dynamics of sodium, (E/T), 24:33393
coolant slug-type expulsion from fuel subassemblies, model for analysis of, 24:33392
coolant system for 1000 MW(e) gas cooled, recuperator for direct gas turbine, 24:9099
coolant technology for sodium cooled, specialists meeting on, 24:43702 (UNC-SPLM-1059)
coolant technology for sodium cooled, specialists meeting on, 24:43698 (IAEA/NPR-9)
coolant void effects in, effect of parameter uncertainties on sodium, 21:30091(R) (ANL-7210)
coolant void effects in, flux synthesis method for calculation of sodium, 21:38682
coolant void reactivity effect in sodium-cooled power, methods for reduction of, (T), 22:35559
coolant void reactivity effects in, generalized perturbation method for analysis of, 22:6179
coolants for breeder, tabulation of advantages and disadvantages of sodium, steam, and helium, 23:28427
coolants for, corrosive properties and impurity monitoring in liquid sodium, 25:41364(T) (EURFNR-849)
coolants for, properties of dissociating gases as, 23:52338(T) (JPRS-48330, pp 640-66)
coolants for, thermo-physical properties of liquid metal, 22:27449
coolants for, use of helium as, 22:5938
coolants of liquid metal cooled, analysis of gas bubble formation and distribution in liquid solution, (T), 25:51070 (RD/B/N-1854)

coolants of liquid metal cooled, interface corrosion and heat transfer characteristics of liquid sodium, (T), 25:51069 (RD/B/N-1721)
coolants, comparison of heat transfer characteristics for gas, liquid sodium, and steam, 24:18669
cooling channels for liquid sodium cooled, hot spot analysis for optimum design of, (T), 25:18122 (EURFNR-863)
cooling circuit concepts for steam cooled, 24:1971
cooling circuits for, incorporation into reactor vessel of primary sodium, 22:12020 (DRP/ML/CANd-1011)
cooling system corrosion mockup for liquid sodium-cooled, description of, 22:44819 (GEAP-4881)
cooling system design for, 21:35639(P)
cooling system design for dual-core power, 21:46917(P)
cooling system for breeder, use of heavy water steam in, 22:32857
cooling system for ceramic-fueled liquid sodium-cooled breeder, analysis of overpower transients in boiling in, 22:20832
cooling system for GPU/NR breeder, pipe rupture considerations in primary sodium, 24:7103
cooling system for heavy water steam cooled breeder, 25:54073(P)
cooling system for lead-cooled, description of integral steam—water heat transfer system for, 22:25049(P)
cooling system for liquid metal cooled, development of pumps for, 24:43744
cooling system for liquid metal cooled, sodium vapor control in, 24:43742 (NP-18331)
cooling system for liquid metal-cooled, description of closed cycle core and heat exchanger, 23:9139(P)
cooling system for liquid sodium cooled power, description of intermediate closed loop carbon dioxide, 23:31163(P)
cooling system for liquid sodium cooled power, development and test programs for components of, 24:47855
cooling system for liquid sodium cooled, description of cold trap with filter for, 24:36021(P)
cooling system for liquid sodium cooled, development of components for, 24:43689 (CONF-700307-5)
cooling system for liquid sodium cooled, performance of molten salts for intermediate, 24:52906
cooling system for liquid sodium-cooled breeder, analysis of two-dimensional velocity distribution for turbulent single-phase flow in, 22:24961 (GEAP-5411)
cooling system for sodium cooled, effects of gas entrainment on thermal and hydraulic performance of, (T), 24:33288
cooling system for sodium-cooled breeder, fission product behavior in, (E/T), 22:39734 (AI-AEC-12687)
cooling system for steam cooled, safety considerations in design of components for, 22:53366
cooling system for steam-cooled breeder, application of Loeffler cycle to, 22:53363
cooling system for steam-cooled, analog and digital computing methods for dynamics of, (T), 23:13573 (KFK-786)
cooling system for superheating breeder power, flow diagram for primary and secondary, 23:40280(P)
cooling system for, control and monitoring of sodium, 23:52336(T) (JPRS-48330, pp 293-312)
cooling system for, DYSYS computer program for analysis of transient boiling in, 25:13158
cooling system for, flow diagram and design parameters for dual stream supercritical steam, 23:9143(P)
cooling system for, hydraulic characteristics and design requirements of, 24:52753
cooling system for, safety analysis of boiling in liquid sodium, 23:4285
cooling system of conceptual 1000 MW(e) sodium cooled, effects of pump perturbations on, (T), 24:38529
cooling system of gas cooled power, description of prestressed concrete pressure vessel contained closed loop, 23:52320(P)
cooling system of gas cooled power, description of prestressed concrete enclosed, 23:52340(P)
cooling system of helium cooled breeder, design parameters for, 24:18611
cooling system of liquid sodium cooled breeder, statistical method for analysis of hot channel factors for, (T), 24:18616 (KFK-964, Sect. 6.1-13)
cooling system of liquid sodium cooled power, design of, 23:52344
cooling system of liquid sodium-cooled, maintenance equipment and procedures for, 22:46960
cooling system of power, effects of pump shutdown on hydrodynamics for, (T), 24:33290
cooling system of sodium cooled, distribution of fission products in, (E/T), 25:51030(R) (NAA-SR-12492)
cooling system of, advantages of high pressure helium over liquid sodium in intermediate, 24:5526
cooling system safety in, analysis of liquid sodium ejection, superheat, and recondensation for, (E/T), 23:4203 (EURFNR-564)
cooling systems for breeder, fission product deposition in, 22:6020
cooling systems for liquid metal and gas cooled power, comparison of design requirements for, 24:47854
cooling systems for liquid metal cooled breeder, development in Japan of piping, pumps, and valves for, 25:18132
cooling systems for sodium cooled, design variations in primary, 25:37005 (KFK-1379)
cooling systems for sodium cooled, development of components for, 25:8069 (EURFNR-828)
cooling systems for space vehicle thermionic, calculations for heat pipes for, 25:57134
cooling systems for steam cooled breeder, THEDYBER program for computing thermodynamic performance of, 24:18694(T) (EURFNR-655)
cooling systems for, analysis of sodium boiling processes in, (E/T), 24:9092 (KFK-1020)
cooling systems for, corrosion product and fission product activity levels in, (E), 25:28632(T) (EURFNR-824)
cooling systems for, description of RIBD code for calculating fission product inventory in, 23:37590
cooling systems for, design aspects of, 24:18644
cooling systems for, performance of gas, 21:35603
cooling systems for, safety of gas, 21:35603
cooling systems of, corrosion product and fission product activity levels in, (E), 25:60010(T) (EURFNR-902)
core behavior in liquid sodium-cooled, MELT-1 heat transfer—neutronics computer program for major excursion effects on, 23:13524 (BNWL-944)
core behavior in, effects of accident conditions on, 24:7168(R) (BNWL-1240)
core bending stresses in Na-1, calculation of multiple subassembly, (T), 23:11179(T) (EURFNR-542)
core blast shields of, description of radially arranged cylinders and tubes for, 23:45099(P)
core chamber for liquid sodium cooled, description of metal ring sealed, 24:36020(P)
core clamping system for, radiation and thermal effects on, (E), 24:7133
core components for power, effects of radioinduced voids on design of, 25:58331
core components for, fast neutron radiation and thermal effects on deformation of, 24:52958 (BNWL-1430)
core components of liquid sodium cooled, use of silicone rubber replication techniques for inspection of, 24:7138
core configuration for breeder, design of optimum, 22:35514
core configuration for breeder, to reduce coolant void reactivity coefficient, 22:48669(P)
core configuration for liquid sodium-cooled, description of multiple concentric region, 22:39803(P)
core configuration for, description of moderator-reflector multiple concentric annular cylindrical, 22:48699(P)
core configuration of breeder power, effects of central blanket on optimum, (T), 23:33043
core configuration of water-cooled, description of dual coolant channels in zirconium-enclosed multiple region, 23:2002(P)
core configuration, description of dual-region multiple, 22:48701(P)
core design for easy access, 21:30224(P)
core design for gas cooled, with flat plate fuel elements at different spacings, 25:23247(P)
core design for SEFOR, 21:19467 (KFK-467)
core design for steam cooled, with increased coolant flow in central region, 25:20697(P)
core design for supercritical steam-cooled, with means for reactivity control on flooding, 22:16241(P)
core design for, with central reflector material zone, 21:7995(P)
core design for, with fuel pins containing blanket material in end sections, 25:60028(P)
core design optimization for 1000 MW(e) sodium cooled, nonlinear programming methods for, 25:8051 (KFK-1238)
core development for gas cooled breeder, during November 1968 to January 1969, 23:45083(R) (GA-9229)
core development for gas cooled breeder, summary from May to July 1969 of, 23:49564(R) (GA-9639)
core development for gas cooled, Aug. to Oct. 1969, 24:13551(R) (GA-9811)
core development for gas cooled, during February 1970 through January 1971, 25:51083(R) (GA-10517)
core development for gas cooled, during February through April 1971, 25:51084(R) (GA-10654)
core development for gas cooled, Feb.—Apr. 1969, 23:43114(R) (GA-9359)
core development for gas cooled, November 1969 to February 1970, 25:18136(R) (GA-9838)
core development for gas-cooled breeder power, July 1966 to July 1967, 23:17188(R) (GA-8107)
core development for gas-cooled, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
core disassembly accidents in, FREADM-1 code for dynamics of, 25:10241 (GEAP-13608)
core disassembly accidents in, two-dimensional integral model of, 25:31599
core disassembly and meltdown accidents in, performance of cooling system and containment structure during, 25:54206 (HEDL-TME-71-50)
core dynamics for 1000 MW(e), hybrid computer simulation of, 24:33544 (ANL-7626)
core dynamics of, digital computer development for simulation of, 21:40564(R) (NAA-SR-12395)
core for breeder, description of orifice regulated flow multiple zone, 23:40320(P)
core for breeder, design parameters of, 22:16205
core for breeder, with unclad fuel elements of uniform enrichment, 25:10170(P)
core for conceptual 1000 MW(e) gas cooled breeder, design comparisons of, 23:45082(R) (GA-8787)
core for dilute, critical mass calculations for, 22:50832
core for FFTF, design of skewed array for, 21:21756 (APDA-186)
core for gas cooled, effects of severe accidents on performance of, (T), 25:51151
core for gas cooled, heat transfer and fluid flow characteristics of, 25:41391
core for gas-cooled, synthesis method for uncertainty analysis of thermal design of, 22:18608
core for Italian conceptual, design characteristics of, 23:37628
core for large, performance of Bundle Controlled Expansion, (T), 21:1180 (WCAP-3589-2)
core for liquid sodium cooled breeder power, effects of wrapper tube fuel elements on performance of step, 24:22413
core for liquid sodium cooled, hydraulic and structural problems in design of, 24:52920
core for Na-1, coolant profiles for, 22:53278 (KFK-539/3)
core for Na-1, design parameters and material compositions for, 22:53278 (KFK-539/3)
core for PEC, static and dynamic characteristics of, 22:16207
core for power, optimum configuration for variable height, 25:41386
core for sodium-cooled power, design and development of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:11234 (APDA-231)
core for sodium-cooled, design of zoned fuel, 21:7909
core for steam cooled, design parameters of, 22:16200
core for steam cooled, design parameters of, 24:11196(P)
core for thermionic, description of spaced cylinder shaped discs, 24:36057(P)
core for, analog techniques for determining optimum peak power for oxide, 23:19494 (CEA-CONF-1126)
core for, analysis of meltdown transients in, 22:32892
core for, description of coupled fissile and fertile zone, 24:26779(P)
core for, design and development of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:40365 (APDA-211)
core for, effects of coolant loss on failure characteristics of, (T), 24:46075
core for, effects of stainless steel swelling on design limitations of, 23:37458
core for, heat transfer and hydraulics in, 25:12768(R) (EURFNR-855)
core for, layered panels for use as thermal insulation of, 24:16184(P)
core for, statistical method for hot channel and hot spot analysis in, (T), 24:52948 (EURFNR-814)
core for, temperature coefficient of thorium metal, 22:27396(R) (AI-AEC-12638)
core for, thermodynamic and hydrodynamic design of, (E/T), 25:28632(T) (EURFNR-824)
core for, ultrasonic transmission system for temperature measurements in, 24:16326(P)
core for, use of hybrid analog computers for optimum design parameters of, 25:15406 (NP-18646)
core for, use of linear programming for optimum design parameters of, 24:18784
core grid plate displacement in pulsed, design of displacement gages for, 22:30904
core handling equipment for liquid metal cooled test, 25:54216(P)
core heterogeneity of, Monte Carlo investigation of, 21:7694 (IA-1082, pp 27-74)
core hot channel temperatures in superheating, effects of cross coolant mixing on, 23:26035(T) (EURFNR-598)
core kinetics of, effects of time-dependent coupling coefficients on, (T), 22:35544
core materials for 710, generation of space-dependent multigroup effective neutron cross sections for, 21:44838 (GEMP-548)
core materials for, effects of fast neutron spectra characteristics on displacement damage in, 24:40897 (TRG-Report-1911, pp 377-86)
core meltdown accident in 1000 MW(e) gas cooled breeder, analysis of cooling and containment requirements for, 25:54161 (ORNL-TM-3546)
core meltdown accidents in 1000 MW(e), modified Bethe-Tait method analysis of, (T), 22:20853
core meltdown accidents in sodium cooled, effects of energy release from, 25:8100 (BNWL-SA-3093(Vol.2), pp XVIII.1-41)
core meltdown accidents in sodium cooled, energy release mechanisms during, 25:8099 (BNWL-SA-3093(Vol.2), pp XVII.1-49)
core meltdown accidents in sodium cooled, methods for analysis of, 25:8098 (BNWL-SA-3093(Vol.2), pp XVI.1-62)
core meltdown accidents in, Bethe—Tait method analysis of second excursions following, 23:15655(T) (EURFNR-579)
core meltdown accidents in, decay heat removal and fuel containment following, (T), 25:41489
core meltdown accidents in, Doppler and disassembly effects on energy release during, (T), 24:22484
core meltdown accidents in, methods for analysis of mechanical work energy produced during, 25:60121
core meltdown accidents in, retention of fuel debris in secondary containment following, (E), 25:41488
core meltdown calculation methods, 21:7968
core meltdown experiments for, using TREAT, 21:8098
core meltdown in liquid metal-cooled, use of TREAT reactor for analysis of simulated, 22:39813
core meltdown in sodium cooled, simulation of heat transfer and pressure behavior following, 24:33367
core meltdown in, analytical method for, 22:53391
core meltdown in, fuel interaction with concrete floor following, (T), 24:46069 (BNWL-CC-2369)
core meltdown in, fuel interaction with concrete following, (T), 24:33397
core meltdown in, variation of reactivity during, 23:52386(T) (JPRS-48331, pp 407-25)
core monitoring in, instrumentation and signal processing for, (E/T), 25:28632(T) (EURFNR-824)
core monitoring in, instrumentation and signal processing for, (E/T), 25:60010(T) (EURFNR-902)
core neutronics analysis for, models for, 21:38457(R) (GEAP-5491)
core of gas cooled breeder power, design modifications for radiation induced swelling of, 25:6020
core of liquid metal cooled, design parameters for liner tube, 24:28990(P)
core of liquid sodium cooled, review of AEC programs on safety aspects of, 25:6087
core of liquid sodium cooled, safety aspects of, 25:6086
core of, hydrodynamic and thermodynamic design of, (E/T), 25:60010(T) (EURFNR-902)
core operation of, model of long-term plutonium isotope changes in, 21:19418
core optimization for sodium cooled, nonlinear programming method for, 25:28655(T) (EURFNR-830)

core optimization methods for, survey of, 22:42204 (RT/ING-(68)7)
core parameter study, 21:23589(R) (ANL-7308)
core parameters for, effect of nuclear constant accuracy on, (T), 24:16280(T) (KFK-tr-301)
core parameters of 1000 MW(e) sodium cooled, optimization of, 23:52311(T) (JPRS-48331, pp 372-406)
core physics measurements for, analysis of optimum operational, (T), 23:4233
core positions in, neutron cross section calculations for off-axis, 25:11474(R) (BNWL-842)
core power and temperature distributions in, RADYVAR code for, 24:7323 (KFK-781/2)
core structural dynamics for, 21:42725(R) (ANL-7357)
core structural dynamics in, simulation of, 21:31898(R) (ANL-7329)
core structure for sodium cooled, with orificing pattern for hydraulic clamping, 25:18109(P)
core structure of liquid metal cooled, fast neutron radiation effects on swelling of, 25:48256 (CONF-710601-4)
core structures for, neutron streaming effects on, 25:41382
core support structure for, description of multiple valve-regulated coolant distributor pipes in, 23:4180(P)
core transient temperature calculations in, hybrid computer program for, 23:47224 (CNM-R-2(Vol.2), pp 682-708)
core vessel cover for, design characteristics of thermal insulated ductile pressure relieving, 25:57058(P)
core vessel for liquid sodium cooled, liquid sodium thermal insulation for, 25:39263(P)
core vessels for, effects of explosive loading on, (E/T), 25:57102
core-displacement reactivity coefficient for pulsed, measurement of, 23:4333
cores for ceramic, temperature distribution for, 21:46854(R) (GEAP-5098)
cores for helium cooled breeder, nuclear and structural properties of oxide, metal-cermet, and carbide, 23:26029 (KFK-864)
cores for steam-cooled breeder, design parameters for, 22:6010
cores for, analytical interpretation of zone-loading experiments for, 21:35555 (ANL-7320, pp 421-8)
cores for, analytical model for calculating energy release in disassembly transient for zone-fueled cylindrical, 24:7086
cores for, comparison of optimum cylinder shaped and modular, 24:18593
cores for, design of zone-loaded, 21:35555 (ANL-7320, pp 421-8)
cores for, effects of bred-plutonium content on breeder efficiency and neutronics characteristics of, 23:52463 (KFK-846)
cores for, heat transfer phenomena in, 24:24785(R) (RCN-114)
cores for, hybrid computer model for simulation of temperature distributions in, 24:38497
cores for, two-dimensional parametric study on meltdown energy release for, 22:32871
cores for, use of fine-group cross sections for calculating spatially dependent fine-group fluxes for, 23:49581 (ANL-7410, pp 73-227)
cores of breeder, design aspects of, 25:23284 (BARC/I-48)
corrosion product distribution in liquid metal cooled breeder, STP-1 computer program for, 23:43094 (AI-AEC-12847)
coupled-cores for, analytical methods for calculating kinetic behavior of, 22:53348
coupling coefficients in bare two-slab, Monte Carlo technique for calculation of, 24:50223
cover gas for vented fuel breeder, purification system for, 24:47870 (RT/ING-(70)7)
critical experiments in, international conference on, 21:35667 (ANL-7320)
critical mass for bounded power density breeder, calculation method of optimum fuel distribution for minimum, (T), 24:18618
critical size of, few-group microscopic cross section calculation for, (T), 22:48751 (IFA-FR-68)
criticality calculations for, 22:47021
criticality calculations for oxide fueled, effects of core configuration on, 24:47818 (ANL-7610, pp 61-258)
criticality calculations for, EXPANDA-4 code for, 25:51232 (JAERI-13660)
criticality calculations on, EWA—TAPE and TEINTRA codes for, 23:52456(T) (JPRS-48331, pp 125-38)
criticality measurements for uranium-235 fueled, effects of 50 to 500 keV neutron spectra on, 21:40671(R) (AWRE-R-4/63)
criticality measurements for, use of computer program for, 22:16308 (BNWL-640)
criticality of plutonium-239—uranium and thorium—uranium-233 metal, carbide, and oxide breeder, calculation of, (T), 22:47052
criticality of, 2DB computer program for, 23:52444 (BNWL-831(Rev.1))
criticality of, 3DB computer program for calculation of, 24:22387 (BNWL-1264)
criticality of, development of computer program for design measurements of, 22:9989(R) (BAW-3867-1)
criticality of, errors in data and methods for calculation of, (E/T), 24:22506
criticality of, methods for physics measurements for, (T), 22:39875 (BNL-50082, pp 1-18)
criticality of, use of critical assemblies and research reactors for calculation of, 24:22458
criticality perturbation by flux tilting, method for calculating, 22:22527 (RPI-328-112, pp 62-103)
decay heat removal following core meltdown, (T), 25:41489
delayed neutron fraction for, effects of neutron spectra on, (E/T), 24:47818 (ANL-7610, pp 61-258)
description of .1 MW(e) lithium-cooled enriched uranium carbide-fueled, 22:25063 (DLR-MITT-66-07, pp 87-99)
description of 1000 MW(e) gas-cooled breeder, 22:16221
description of 1000 MW(e) liquid metal-cooled breeder, reference design plant, 22:9990(R) (BAW-1312)
description of 250 MW(e) prototype, with 3 primary and 3 secondary liquid sodium coolant loops, 22:18519
description of 300 MW(e) liquid metal-cooled breeder, 22:6036
description of 300 MW(e) liquid sodium-cooled breeder, 22:39826
description of boiling breeder, 22:16151 (INR-842/C)
description of breeder, 22:18531(P)
description of double-window synchronized rotating pre- and excess-pulse screens for, 22:22853(P)
description of fluid-fueled, 22:18524
description of French, 22:18528
description of fused-salt boiling, 21:19396
description of gas -cooled, 22:18524
description of heterogeneous, 22:18533(P)
description of JAERI, 21:25728
description of liquid-sodium-cooled, with unclad metal fuel for desalination of seawater, 22:27455 (ORNL-4229, pp 188-90)
description of multi-region core, with proportional fuel density and coolant flow rate, 22:14219(P)
description of multi-region supercritical pressurized-water cooled breeder, 22:20884(P)
description of PEC, for fast fuel element testing, 22:1867(T) (ORNL-tr-1786)
description of proposed European, for economic power production, 21:42734
description of Russian BN-350, 21:19394
description of Russian breeder, 22:7827
description of SAWA and WARS concepts of, 21:42772
description of sodium-cooled, in France, 22:18503
description of Spanish CORAL-I research, 23:21525
description of steam-cooled, 22:18524
description of synchronized rotating pre- and excess-pulse screens, 22:22852(P)
description of zoned fuel liquid sodium-cooled, 22:18539(P)
description of, utilizing increasing fuel abundance from center to radius in core, 22:20873(P)
design advances in U. K. program for, 21:27710
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and construction of Italian TAPIRO research, use of PERT for administration of, 23:28565
design and development of 1000 MW(e), 21:5596 (ANL-7001)
design and development of breeder-type, in Germany, 21:17491
design and operation of, use of radiation measurements in, 21:21679
design and performance of 1000 MW(e) steam-cooled breeder, 21:10153
design and performance of German experimental, 21:30187
design and performance of pulsed accelerator-boosted, (E/T), 21:8056
design calculations for power, Belgian computer codes for, 22:35558
design calculations for, SNARC1D code in ARC system for, 25:31651 (ANL-7717)
design characteristics for 30 MW repetitively pulsed research, conceptual, 23:21510 (BNL-13208)
design characteristics for gas cooled breeder, problems with, 25:41388
design characteristics of breeder, 25:1861
design characteristics of gas cooled breeder, in Germany, 25:60013 (KFK-1375)
design characteristics of liquid sodium cooled, comparison of, 25:60094 (CONF-710922-2)
design characteristics of world-wide prototype breeder, comparison of, 23:2004
design characteristics of, tabular summary of, 24:18593
design concept for 1000 MW(e) steam-cooled, with prestressed concrete vessel, 22:44816 (EURFNR-522)
design concept for dual spectrum, for safeguards assay of plutonium—uranium fuels, 25:54217
design concept for heat-pipe-cooled space power, with plutonium-239 fuel, 23:7405 (ANL-7422)
design concepts for breeder, technical and economic evaluation of gas cooled and steam cooled, 23:34897 (WASH-1090)
design concepts for liquid sodium cooled, review of problems in, 23:47151 (ANL-7520(Pt.2), pp 3-19)
design concepts for steam cooled, technical and economic evaluation of, 23:43087 (WASH-1088)
design concepts in Japan for 1000 MW(e) liquid sodium cooled breeder, comparison of component characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
design criteria in Japan for liquid sodium cooled, safety considerations for, 23:47218 (ANL-7520(Pt.2), pp 67-76)
design data for, use of zoned fast critical assemblies to obtain, 21:38688
design description for 300 MW(e) liquid sodium-cooled Na-2, 22:37439(T) (EURFNR-462)
design features of 500-MW(e) second-generation sodium-cooled, 21:10176
design for 1000 MW gas cooled, use of direct cycle gas turbine in conceptual, 24:16121 (EIR-163)
design for 330 MW(e) gas cooled breeder, description of, 24:18594
design for breeder use with supercritical steam coolant, 21:10189(P)
design for carbide-fueled, effects of physics characteristics on, 24:7098
design for combination thermal and, 21:23676(P)
design for fuel testing, 21:32028(P)
design having negative coefficient of reactivity, 21:23696(P)
design improvements using fast critical experiment data, (E/T), 21:35669 (ANL-7320, pp 66-78)
design methods for, computer codes for thermal-group constants calculations, 21:34133
design model for optimum liquid metal-cooled reflector-controlled rocket, description of, 22:39869
design of 10,000 MW(t) sodium-cooled breeder, 21:23588 (ANL-7183)
design of 10,000 MW(t) sodium-cooled breeder, 21:40532 (ANL-7290, pp 216-26)
design of 1000 MW(e) breeder, using computer program, 21:40552 (EURFNR-320)
design of 1000 MW(e) gas-cooled, 21:38506
design of 1000 MW(e) sodium cooled breeder, 21:23657
design of 1000 MW(e) steam-cooled breeder, 21:19393(T) (ORNL-tr-1541)
design of 1000 MW(e) steam-cooled breeder, 21:23604 (KFK-392)
design of 1000 MW(e) uranium carbide (UC) fueled ordered pebble bed, economics of conceptual, 22:9992 (BNL-50027)
design of 1000-MW(e) sodium-cooled, economics and feasibility of coupled-core, 21:17459 (NAA-SR-11378(Vol.1))
design of 300 MW(e) liquid sodium cooled, 21:46848 (EURFNR-368)
design of 350 MW(e) demonstration breeder, conceptual, 24:7055
design of accelerator-booster pulsed, 21:30252 (GA-7381)
design of breeder, 21:23589(R) (ANL-7308)
design of breeder, effects of nuclear data uncertainties on, 25:15345
design of breeder, engineering for, 22:18501
design of breeder, evaluation of nuclear data for, 22:6138(R) (LA-3820)
design of breeder, review of technical and economic requirements in, 22:42272
design of breeder, with checkerboard pattern of seed and blanket regions, 24:47813(P)
design of breeder, with core configuration to minimize coolant void effect, 25:1863(P)
design of breeder, with fuel handling device, 21:12206(P)
design of compact, 21:32018
design of direct-cycle water-cooled supercritical pressurized, 21:23680(P)
design of fused-salt-fueled, 21:23643
design of gas cooled, with direct cycle helium turbine, 24:24798
design of gas cooled, with moveable fissile and fertile fuel assemblies, 25:1862(P)
design of gas-cooled, GAZELLE-5 computer code for, 22:12024 (GAMD-6754)
design of German 300 MW(e) sodium-cooled, conceptual, 22:16187
design of heavy water—light water cooled, 21:23674(P)
design of helium cooled and sodium cooled, system and component requirements in, 24:18603
design of large breeder, (T), 21:2880
design of large breeder, safety aspects of, 21:7940
design of large sodium-cooled breeder, using plutonium—uranium-238 cycle, 21:4391(P)
design of liquid metal cooled, effects of liquid sodium hydraulic characteristics on, 24:46032 (CONF-700307-3)
design of liquid-metal-cooled, 21:8011(P)
design of PEC, conceptual, 22:16207
design of power, with dissociating nitrogen tetroxide coolant, 25:48240
design of pulsed, 21:23694(P)
design of pulsed, for beam experiments, 21:35701(R) (BNL-50023)
design of rocket, computer programs for optimum, 23:19540 (UCRL-50429)
design of Russian BN-350, for desalting, 21:21752(T) (CEA-tr-R-1538)
design of Russian BOR, 21:21655
design of sodium cooled test, 24:47911(P)
design of sodium cooled, based on updated safety and design criteria, 21:27673 (GEAP-4939)
design of sodium cooled, optimum thermodynamic parameters for, (T), 25:48239
design of sodium cooled, reliability of safety systems in, 24:24872
design of sodium, description of computer program for treating coolant phase changes during transients for liquid, 22:53376
design of sodium-cooled, evaluation of, 21:30136 (EURFNR-287)
design of steam cooled breeder, economic and technical evaluation of, 23:26019 (KFK-918)
design of steam-cooled, comparison of EVESR with, 22:16184
design of steam-cooled, evaluation of, 21:30136 (EURFNR-287)
design of supercritical water-cooled, with plutonium-enriched ceramic fuel elements, 21:38620(P)
design of superheating, 21:15719(P)
design of Swedish steam cooled breeder, 22:16199
design of, central compilation of differential cross sections for, 25:26063 (RPI-328-219)
design of, computer codes for neutron physics calculations for, 21:44848 (LA-3724)
design of, neutron cross section requirements for, 25:23253 (HEDL-SA-163)
design of, review of standard nuclear data for, 25:54256 (CONF-701002-, pp 12-24)
design of, uncertainties in nuclear data for, 21:35548 (ANL-7320, pp 263-9)
design of, use of critical experiment data in, 24:33267
design of, use of microscopic and integral nuclear data in, 25:15346
design of, utilization of fast critical assembly data for, 21:35692 (ANL-7320, pp 543-8)

design optimization of, iteration method using linear perturbation theory for, 23:52312(T) (JPRS-48331, pp 438-55)
design parameters for, 21:40622
design parameters for 100 MW(t) Japan Fast Experimental Reactor, description of, 22:35538
design parameters for 1000 MW(e) breeder, 21:40528 (ANL-7290, pp 139-69)
design parameters for 1000 MW(e) gas cooled breeder, conceptual, 23:28432
design parameters for 1000 MW(e) gas-cooled breeder, limiting factors of, 23:11157 (CONF-680419-, pp 63-88)
design parameters for 1000 MW(e) liquid sodium-cooled, NAPS computer program for optimum, 23:5992 (BAW-1326)
design parameters for 1000 MW(e) liquid sodium-cooled breeder, description of optimum, 22:37504
design parameters for 1000 MW(e) steam-cooled uranium oxide (UO$_2$)—plutonium oxide (PuO$_2$) fueled breeder, 22:18525
design parameters for 300 MW(e) prototype liquid sodium cooled breeder, in Japan, 24:11162
design parameters for 300 MWe conceptual liquid sodium cooled breeder, safety, 22:53360
design parameters for 500 to 1000 MW(e) liquid sodium-cooled, description of optimum, 22:32736(T) (ANL-Trans-588)
design parameters for conceptual 1 to 5 kW(e) plutonium phosphide (PuP)-fueled heat-pipe thermoelectric, 23:19543
design parameters for conceptual 1000 MW(e) liquid sodium-cooled breeder, 23:31143
design parameters for conceptual 118 MW(t) liquid sodium cooled plutonium carbide (PuC)—uranium carbide (UC) fueled test, 24:40902 (TRG-Report-1911, pp 545-63)
design parameters for conceptual 500 MW(e) liquid sodium-cooled breeder, 23:19465 (NP-17784)
design parameters for dual-purpose power and desalting breeder, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters for European breeder, 21:42758
design parameters for European liquid sodium-cooled and steam-cooled, analysis of, 22:35498
design parameters for gas cooled, analysis of optimum economic, 25:34324
design parameters for General Public Utilities—Atomics International demonstration breeder, 23:28428
design parameters for German sodium cooled, conceptual, 22:22703 (KFK-660)
design parameters for Germany 300 MW(e) prototype steam-cooled, description of, 23:11159 (CONF-680419-, pp 111-26)
design parameters for Japan 100 MW(t) liquid sodium-cooled plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)-fueled, description of, 23:9123
design parameters for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled, effects of coolant type on optimum, 23:23896 (EURFNR-615)
design parameters for power, analysis of optimum economic, 23:47176
design parameters for power, base point method for calculation of optimum, (T), 23:49551
design parameters for power, effects of neutron cross section errors on calculation of, (T), 24:22393
design parameters for space vehicle of conceptual 1 kW(e) to 1 MW(e) lithium cooled uranium nitride (UN) fueled high temperature, calculation of optimum, 23:49603 (UCRL-71149)
design parameters for U.S.S.R., tabular collection of, 23:26095
design parameters for, digital computer programs for calculating, 25:23392 (ANL-7713)
design parameters for, methods for optimization of, (T), 25:60217
design parameters for, tabulation of conceptual, 23:9187
design parameters in Italy for reference 1000 MW(e) PCC-2 liquid sodium cooled breeder, analysis of optimum economic, 23:47160 (ANL-7520(Pt.2), pp 254-68)
design parameters in Japan for prototype 200 to 400 MW(e) liquid sodium cooled breeder, analysis of optimum, 23:47156 (ANL-7520(Pt.2), pp 110-20)
design parameters in Japan for two conceptual 1000 MW(e) liquid sodium cooled breeder, comparison of, 23:47153 (ANL-7520(Pt.2), pp 77-85)
design parameters in Japan of prototype 200 to 300 MW(e) breeder, comparison of preliminary, 23:40323
design parameters in Japan of prototype liquid metal cooled breeder, 25:3855
design parameters of, 21:13981 (NP-16364)
design parameters of 1000 MW(e) helium cooled, 25:54011 (A/CONF.49/P-23)
design parameters of 1000 MW(e) steam cooled, 25:28634 (NP-18782)
design parameters of 300 kW(e) Rankine cycle lithium cooled, analysis for space vehicles of optimum, 24:16257 (N-70-11975)
design parameters of 300 MW gas-cooled ceramic, prototype reference, 22:16189
design parameters of 300 MW(e) demonstration gas cooled breeder, 25:41367 (CONF-710315-15)
design parameters of 300 MW(e) gas cooled breeder, 24:50075 (CONF-700401-, pp 795-811)
design parameters of breeder, 25:28651
design parameters of breeder power, 24:4030
design parameters of breeder, conceptual, 22:16186
design parameters of conceptual direct cycle gas cooled power, effects of silicon carbide (SiC) coated ceramic fuel on, 23:37510
design parameters of gas cooled breeder power, 25:3854
design parameters of liquid plutonium modular, calculational model, 21:42729(R) (LA-3745)
design parameters of liquid sodium-cooled plutonium oxide (PuO$_2$)-uranium oxide (UO$_2$)-fueled 350 to 500 MW(e) breeder GPU/AI, analysis of conceptual, 22:37463
design parameters of lithium cooled, for space power, 25:41578
design parameters of lithium cooled, for space power, 25:41579
design parameters of molten salt, with boiling coolant, 23:52335(T) (JPRS-48330, pp 188-227)
design parameters of nitrogen tetroxide cooled, with gas-liquid heat transfer cycle, 25:34323(T) (JPRS-53069, pp 166-75)
design parameters of power breeder, calculations for optimum economics of, 25:23251 (BARC/I-58)
design philosophy for first German sodium, 23:23860
design problems in Japan for conceptual 1000 MW(e) liquid sodium cooled breeder, 23:47154 (ANL-7520(Pt.2), pp 86-9)
design problems of, 21:19432
design problems with gas cooled breeder, 25:60009 (CONF-710922-5)
design problems with liquid sodium cooled breeder, review of, 25:60008 (CONF-710922-4)
design requirements for sodium cooled dual-purpose power and desalination, 23:49627
design specifications for development of LMFBR, description of conceptual, 22:32906
design with fluid cooling and control system for, 21:40647(P)
design with neutron source located in reflector, 21:30218(P)
design with pulsed neutron source located in reflector, 21:30217(P)
design with thermionic converter for power range from 5 to 50 kW(e), 21:30241
development, 21:19420
development activities during April—May 1969, 23:37444(R) (ANL-7577)
development and economics of breeder, 21:42779
development and financing of, contrast of utility executive and AEC personnel concepts of priorities for, 23:28383
development and operation of, conference on, 22:16180
development and performance of breeder-type, in U.K, 21:15721
development at RCN during January to March 1969, 24:13525 (RCN-111)
development at Reactor Centrum Nederland during January to March 1970, 25:12768(R) (EURFNR-855)
development by EURATOM of, description of, 22:18529
development during January to March 1970, 25:28632(T) (EURFNR-824)
development for future use of, 21:27708
development in Belgium during 1968, 24:9079(R) (NP-18052)
development in Belgium during 1969, 25:39226(R) (NP-18809)
development in Belgium during 1969, 25:39227 (NP-18809, pp 1.1-33)
development in Belgium, Denmark, Germany, and Netherlands of liquid metal cooled breeder, review of joint, 25:54026 (A/CONF.49/P-366)
development in Belgium, fuel requirements for, 23:10195
development in Britain and France, review of fuels and materials technology from, 22:12088 (BNWL-569)
development in Czechoslovakia, projections of, 23:52307(T) (JPRS-48330, pp 12-17)
development in Europe, 21:30136 (EURFNR-287)
development in Europe of Power breeder, review of, 23:23859
development in Europe of, status of programs for, 25:18103
development in Europe, status of, 25:31536
development in FORATOM countries of, survey of, 22:3861
development in France, 24:13534
development in France of breeder, 25:25961
development in France of, review of, 24:33354
development in France, status of, 25:54036 (A/CONF.49/P-583)
development in Germany, 25:34204
development in Germany during 1970, 25:31538
development in Germany during April to June 1970, 25:41364(T) (EURFNR-849)
development in Germany during October to December 1970, 25:60010(T) (EURFNR-902)
development in Germany of 300 MW(e) prototype steam cooled breeder, review of, 25:12767 (BMBW-FBK-70-20)
development in Germany of breeder, 24:22382
development in Germany of breeder power, analysis of optimum economic, 24:28988 (KFK-1066)
development in Germany of breeder, description of, 23:9108
development in Germany of breeder, during July to August 1970, 25:25959 (KFK-1270/3)
development in Germany of breeder, during July to August 1970, 25:51028(T) (EURFNR-867)
development in Germany of gas cooled breeder, 25:41389
development in Germany of liquid sodium cooled breeder, 25:60012 (JUL-775-RG)
development in Great Britain, 21:15647(R) (CONF-660450-1)
development in Italy of liquid metal cooled power, cost analysis for, 25:54019 (A/CONF.49/P-175)
development in Japan of liquid metal-cooled breeder, review of, 23:28421
development in Japan of liquid sodium cooled breeder, description of O-Arai Engineering Center for, 24:50193
development in Japan of liquid sodium-cooled breeder power, technology for, 23:13421
development in Japan of prototype, 24:20607
development in Japan of repetition type pulsed, 25:1857
development in Japan of, review of, 23:31151
development in U. S. of breeder, analysis of economics for 1986 to 2005, 23:19450
development in U. S., survey of, 25:10102
development in U.K. of, 23:47211 (CNM-R-2(Vol.1), pp 58-69)
development in U.K. of liquid sodium cooled, 25:54030 (A/CONF.49/P-481)
development in U.K. of power, economic objectives for, 23:28417 (TRG-Report-1801(Rev.))
development in U.S. of breeder power, predicted schedule for, 24:24786
development in U.S. of gas-cooled breeder, 23:15608
development in U.S. of liquid metal cooled breeder power, cost—benefit analysis of optimum economic, 23:33058 (WASH-1126)
development in U.S., economic strategy for, 24:31083
development in U.S.S.R, 25:34204
development in U.S.S.R. of liquid sodium cooled power, review of, 24:18598
development in U.S.S.R. of, problems related to, 25:10099
development in U.S.S.R. of, review of, 23:33032
development in U.S.S.R., review of, 25:31534 (WASH-1175)
development in United Kingdom, 21:38594
development in United Kingdom, description of, 22:27440
development in various countries, review of problems in, 22:24994
development in West Germany during 1969, summary of, 24:24800
development in western Europe of breeder, 21:46885
development of, 25:51031(R) (RCN-143)
development of, 22:40177 (KR-126, pp 385-93)
development of 1000 MW steam- and sodium-cooled, 21:30206
development of 1000 MW(e) sodium-cooled breeder, system effectiveness approach for optimum, 23:19470
development of 1000 Mw(e) sodium-cooled, feasibility of, 21:1166 (NAA-SR-11378(Vol.2))
development of 330 MW(e) helium cooled, 24:24796
development of 500 to 1000 MW(e) liquid sodium-cooled, analysis of problems in, 22:32736(T) (ANL-Trans-588)
development of Belgian—Dutch—German 300 MW(e) prototype liquid sodium cooled breeder, review of design considerations and experimental programs for, 23:47157 (ANL-7520(Pt.2), pp 130-46)
development of boiling liquid-metal, use of EBR-I facility for, 21:19343 (ANL-7212)
development of breeder, 25:23116
development of breeder power, 24:16135
development of breeder power, effects on economics of world-wide, 23:23933
development of breeder power, problems of, 24:4030
development of breeder power, review of world-wide, 24:5516
development of breeder power, utility company economic requirements for, 23:11164 (CONF-680419-, pp 454-8)
development of breeder, 30 year projection of objectives and requirements for, 23:52316
development of breeder, analysis of joint manufacturer-utility-government efforts for optimum, 22:35506
development of breeder, basic nuclear data for, 21:35546 (ANL-7320, pp 3-14)
development of breeder, conference on, 24:18586 (KFK-964)
development of breeder, description of program for, 22:1823
development of breeder, economics in Europe of, 22:3857
development of breeder, effects on uranium economics of, 23:23917
development of breeder, engineering aspects of, 22:16220
development of breeder, in European Community, 25:60032
development of breeder, in Germany, 22:6094 (EURFNR-403)
development of breeder, in U.S.S.R, 23:15612
development of breeder, needs and ways for joint government-industry participation in, 23:28426
development of breeder, review of, 25:20708
development of breeder, review of EBR-2 operations history for, 23:26055
development of breeder, review of programs for, 24:26738(T) (EURFNR-714)
development of breeder, review of worldwide, 24:40905
development of breeder, technical and economic aspects of, 23:47181
development of breeder, U. S. program for, 21:17481
development of breeding, reasons for and USAEC role in, 23:28425
development of British, 21:30230
development of ceramic, 21:8122(R) (GEAP-5158)
development of ceramic-fueled, 22:647(R) (BNL-50077)
development of commercial power, review of programs in U.S. and Europe for, 23:28436
development of conceptual gas cooled breeder power, economic and technical criteria for, 23:33030 (WASH-1089)
development of European, program for, 22:1796
development of first generation breeder, review of, 24:18610
development of French, long term program for, 22:1803
development of full-scale breeder power, utility company perspective on, 23:11160 (CONF-680419-, pp 127-32)
development of gas cooled and liquid metal cooled, review of, 24:43703
development of gas cooled breeder, 25:54013 (A/CONF.49/P-116)
development of gas cooled breeder, 24:16141
development of gas cooled breeder, 25:41390

development of gas cooled breeder power, problems with, 24:46002
development of gas cooled breeder, review of, 25:60009 (CONF-710922-5)
development of gas cooled breeder, technical and economic aspects of, 25:31535
development of gas cooled, survey of, 25:51029 (JAERI-13620)
development of gas-cooled breeder, 21:19354(R) (GA-6667)
development of gas-cooled breeder, 21:42728 (KFK-595)
development of gas-cooled breeder, component and material requirements for, 22:35466 (KFK-689)
development of gas-cooled breeder, technical advancements in, 21:46847 (EURFNR-367)
development of German steam cooled breeder, program for, 22:16201
development of German steam cooled breeder, summary of experience gained by research and industrial groups in, 23:23862
development of high flux research and test, review of trends in, 23:28566
development of high-gain liquid sodium-cooled 200 to 400 MW(e) breeder, description of prototype, 22:35504
development of high-temperature gas-cooled, 21:19381(R) (ORNL-4036)
development of Italy liquid sodium-cooled power, program for, 23:4177
development of Japanese breeder power, description of, 22:35485
development of Japanese breeder, description of, 22:18526
development of liquid metal cooled breeder, review of world wide, 24:18610
development of liquid metal fuel breeder, 22:10438(R) (NAA-SR-12585)
development of liquid metal-cooled breeder, monthly progress report on Argonne National Laboratory, 22:37401(R) (ANL-7457)
development of liquid sodium cooled, 24:52854 (STI/PUB-256)
development of liquid sodium cooled breeder power, conference on, 23:47150 (ANL-7520(Pt.2))
development of liquid sodium cooled breeder power, summary of, 25:60029
development of liquid sodium cooled breeder, in Japan, 25:54043 (A/CONF.49/P-819)
development of liquid sodium cooled breeder, review of, 24:46009
development of liquid sodium cooled, review of RCN program for, 24:47811
development of liquid sodium-cooled breeder, comparison with advanced thermal and steam-cooled fast breeder reactor, 23:11176
development of liquid sodium-cooled, description of, 22:18524
development of materials for liquid sodium- and NaK-cooled, analysis of problems in, 23:11163 (CONF-680419-, pp 445-8)
development of power, 25:25963
development of power, European program for, 22:18497
development of power, French program for, 23:4162(T) (AEC-tr-6985)
development of power, in U.S.S.R, 22:39806
development of power, outlook for 1970 to 1985, 24:13530
development of power, review of worldwide, 22:25034
development of power, technical and economic aspects of, 22:18500
development of settled-bed, 21:35701(R) (BNL-50023)
development of sodium cooled breeder, programs for and problems in, 23:23867
development of sodium cooled, CNEN project schedule for, 25:8049 (EURFNR-829)
development of sodium cooled, during July 1, 1966 to June 30, 1967, 25:51030(R) (NAA-SR-12492)
development of sodium cooled, European cooperation in, 24:4034
development of sodium cooled, European program for, 24:40903
development of sodium cooled, in United Kingdom, 24:4032
development of sodium cooled, summary of CNEN activities on, 25:8048 (EURFNR-825)
development of sodium-cooled breeder, 21:13946(R) (ANL-7279)
development of sodium-cooled breeder, 21:13947(R) (ANL-7286)
development of sodium-cooled breeder, in Germany, 23:15609
development of sodium-cooled, review of European programs for, 23:4173(T) (ORNL-tr-1783)
development of Soviet, 21:27703
development of steam cooled, progress summary on, 24:41016
development of steam cooled, review of, 25:39225 (KFK-1370)
development of steam cooled, sodium cooled, and helium cooled, comparison of potential for, 25:39232
development of steam-cooled breeder, comparison with advanced thermal and liquid sodium-cooled fast breeder reactor, 23:11176
development of U. S. advanced breeder, analysis of 1968 to 1974, 23:15567
development of U. S. breeder, analysis of optimum, 22:35508
development of U. S., conference on role of university nuclear engineering programs in, 25:36976 (CONF-680818)
development of U. S., program for, 25:34203
development of U.K. power, analysis of economic, 23:9100 (TRG-Report-1631)
development of U.S. breeder, 25:54047
development of U.S. power breeder, economic incentives for, 23:11080 (CONF-680419-, pp 9-24)
development of U.S.A. breeder, description of proposed, 22:53298
development of U.S.S.R. breeder power, review of, 23:13370(T) (JPRS-46747, pp 1-13)
development of United States breeder, description of, 22:18527
development of USSR, review of, 25:34321(T) (JPRS-53069)
development of, analytical methods for physical problems in, 21:15711
development of, college research programs for, 24:7059
development of, college research programs for, 24:7070
development of, comparison of liquid sodium cooled, gas cooled, and steam cooled concepts for, 24:24797
development of, conference on systems, materials, and components for, 23:11155 (CONF-680419)
development of, core-parameter research for, 21:30093(R) (ANL-7317)
development of, coupled safety and technological aspects of, 21:17456 (LA-DC-8288)
development of, economic and performance aspects of, 24:16142
development of, effects on future nuclear fuels requirements, 25:51103
development of, industrial aspects of, 21:34145
development of, monthly progress report on Argonne National Laboratory, 22:35422(R) (ANL-7445)
development of, monthly progress report on Argonne National Laboratory, 22:42158(R) (ANL-7460)
development of, objectives and directions for, 22:16208
development of, outlook for industrial, 24:18522
development of, program for U. S, 21:35562 (ANL-7320, pp 737-45)
development of, program in Japan for, 25:23240
development of, review of, 23:31140 (KFK-881)
development of, review of, 24:18599
development of, review of, 24:18602
development of, review of, 24:18604
development of, review of French program for, 24:24794
development of, review of materials and operating problems in, 24:13535
development of, review of theoretical and technical, 23:40328
development of, review of world wide, 24:4028
development of, role of TR-SRE in, 21:1209 (NAA-SR-11359)
development of, status report on, 25:3891 (ORO-1171-1, pp 206-55)
development of, summaries of national programs for, 24:50076 (NP-18365)
development of, summary of incentives for, 25:23244
development of, technical and economic aspects of, 24:24857
development of, U.S. industrial activities in, 24:13523 (IRI-131-69-1)
development of, U.S. program for, 24:16145
development potential of German sodium, short term, 23:23860
development prediction in U.S. during 1970 to 2020, systems analysis for optimum economic, 25:10095 (WASH-1098)
development program for 300 MW(e) and 1000 MW(e) liquid sodium-cooled, description of, 23:11173
development program for breeder, analysis of optimum, 22:37464
development program for ceramic fueled, description of United States, 22:18502
development program for European, analysis of, 22:35501
development program for European, discussion on, 22:35491
development program for European, economic analysis of, 22:35496
development program for French, 22:35479
development program for gas cooled breeder, summary of, 23:23866
development program for German 300 MW(e) sodium-cooled, 22:53336
development program for German liquid sodium- and steam-cooled breeder, description of optimum economic, 22:37461
development program for German liquid sodium- and steam-cooled breeder, description of, 22:35539
development program for German steam cooled, costs and problems in, 23:23863
development program for Germany power breeder, description of, 22:48670
development program for Great Britain liquid sodium-cooled breeder, description to 1985 of, 22:42231
development program for Italian CNEN, 23:26023
development program for Japanese liquid sodium-cooled, description of, 22:35538
development program for liquid metal-cooled breeder, description of United States, 22:30216
development program for liquid sodium-cooled breeder, use of ING, DFR, EBR-2, and FFTF in, 23:21447 (AECL-3251)
development program for liquid sodium-cooled power, analysis of uncertainties for physics parameters and fuel costs in, 22:50733 (GEAP-5635)
development program for LMFBR, 23:9129
development program for U. K. liquid metal-cooled, description of, 22:46950
development program for U. S, 23:43089
development program for U. S. A. liquid metal-cooled breeder, description of, 22:46951
development program for U.K. power, description of, 22:44859
development program for U.S. power breeder, description of, 22:35541
development program for UK, description of, 22:35540
development program for USSR, economics of, 22:35480
development program for Yugoslavia breeder power, analysis of optimum economic, 22:48667
development program for zirconium hydride thermal, thermionic, and liquid metal-cooled space-power, description of AEC, 23:11308 (CONF-680419-, pp 41-60)
development program for, emphasis on, 21:38589
development program in Belgium for power, review of 1966, 23:28562 (NP-17819, Chap. 1)
development program in Japan of prototype liquid sodium-cooled breeder power, 23:17181
development program in the United Kingdom, 22:6053
development program in U.K. for breeder power, description of economic, 23:21457
development program in U.K. for breeder power, review of, 24:31036 (TRG-Report-1925)
development program in U.S.S.R. for power, review of, 23:17172
development program in United Kingdom, 21:40639
development program of French, description of, 22:35625
development programs for breeder power, economics of world-wide, 22:37448 (NP-17521)
development programs for breeder, description of, 22:35471 (STI/PUB-165(Vol.1))
development programs for Europe power, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
development programs for, description of, 22:46952
development programs for, review of, 24:22386
development programs in Europe, review of, 24:18600
development programs in France for, review of April to June 1968, 24:46084(R) (EURFNR-778)
development programs in France for, review of July to September 1968, 24:46085(R) (EURFNR-779)
development programs in U.S.S.R. for liquid sodium cooled, review of, 24:43707
development programs in western Europe, 23:11249(T) (ORNL-tr-1784)
development status of breeder power, review of, 23:21453
development status of breeder, discussion of, 21:25646
diffusion equations for, BISYN-code for synthesis solution to two-dimensional adjoint-weighted, 24:16276 (GEAP-4922(Suppl.1))
dimensions for fast alkali-metal-cooled space, comparison of heat-pipe and convection-cooled outside radius, 23:2092 (UCRL-71206)
disassembly of, sensitivity of calculations for, 25:41492
Doppler and sodium-loss effects in heterogeneous media of, perturbation calculation of, 21:35553 (ANL-7320, pp 394-402)
Doppler coefficient for carbide fueled power, statistical uncertainty in calculations of, (T), 24:24813
Doppler coefficient for heavy elements in, effect of chemical form, surface-to-mass ratio, and neutron spectrum on, 21:35551 (ANL-7320, pp 334-40)
Doppler coefficient measurements for, review and evaluation of, (E/T), 25:44094(R) (AI-AEC-12991)
Doppler coefficient measurements in coupled fast-thermal, pile oscillator method for, (E/T), 25:37135 (KFK-1350)
Doppler coefficient measurements in, effects of temperature and environment on thorium and uranium-238, 22:33038
Doppler coefficient measurements in, pile oscillator method for, (E/T), 25:37135 (KFK-1350)
Doppler coefficient measurements in, temperature dependence of, 21:35552 (ANL-7320, pp 341-4)
Doppler coefficient measurements in, use of heated samples for, 21:27733
Doppler coefficient of reactivity determination in, use of transmittance measurements for, 23:52325(T) (JPRS-48331, pp 280-300)
Doppler coefficient of reactivity for plutonium-239 in, numerical evaluation of expression for, 22:46955
Doppler coefficient of uranium-235 and -238 in, sodium void effects on, (E/T), 21:35678 (ANL-7320, pp 319-33)
Doppler coefficients for breeder, validity of methods for calculating, (T), 23:6001
Doppler coefficients for large dilute-core, isolated and strongly overlapping resonance region calculations of, 23:21552
Doppler coefficients for, detailed method for calculating, 23:28447
Doppler coefficients for, effects of unresolved resonance parameters on, 22:33086 (ANL-7310, pp 431-511)
Doppler coefficients for, effects of uranium dioxide crystalline binding on, 21:34078 (BNWL-442)
Doppler coefficients for, methods development for calculation of, 24:22481(T) (EURFNR-697)
Doppler coefficients for, methods for calculation of, (T), 24:4127 (KFK-983)
Doppler coefficients of, Monte Carlo method for calculating, (E/T), 24:28999
Doppler effect analysis in unresolved region for, application of statistical theory and multilevel formalism to, 23:19556
Doppler effect analysis in unresolved region for, application of statistical theory and multilevel formalism to, 23:19555
Doppler effect calculations for sodium cooled test, perturbation theory and programming techniques for optimizing, 23:40386 (CONF-690401-, pp 256-96)
Doppler effect calculations in, collision density fluctuations effects on, 21:30091(R) (ANL-7210)
Doppler effect calculations in, description of Monte Carlo code for, 22:35720
Doppler effect evaluation for homogeneous dilute oxide, effects of two-level formula on, 22:53377
Doppler effect in, contribution of uranium-238 temperature dependent resonance parameters to, (T), 24:47938 (NP-18369)
Doppler effect in, effects of neutron flux variations and fuel heterogeneity on, (T), 25:10176
Doppler effect in, effects on design and safety characteristics of, (T), 22:20852

Doppler effect measurements on dilute carbide cores of, 21:30091(R) (ANL-7210)
Doppler effect of mixtures of uranium-235 and uranium-238 in, comparison of measurements with theory for, 21:35678 (ANL-7320, pp 319-33)
Doppler measurements at 2000°K on uranium-238 and refractory metals for, 23:4187
Doppler measurements in FR-0, use of foil activation techniques for, 21:35673 (ANL-7320, pp 159-84)
Doppler reactivity coefficients in, measurements of, 21:40564(R) (NAA-SR-12395)
Doppler reactivity effect in uranium fueled, calculation and measurement of, 24:50086 (CEA-R-4035)
Doppler reactivity effects in, generalized perturbation method for analysis of, 22:6179
Doppler reactivity in, (E/T), 24:33249
Doppler temperature coefficients for, calculations with resonance overlap for, (T), 25:54061
dynamic behavior of 1000 MW(t) sodium-cooled breeder, analysis of, 22:6027
dynamic behavior of breeder, thermohydraulic and neutronics models for computing, 24:2058 (EURFNR-652)
dynamic behavior of liquid metal cooled power, computer program for feedback control theory for small signal, 23:34899 (ANL-7529)
dynamic behavior of sodium-cooled power, analysis of, 22:46958
dynamic behavior of, effects of variation of neutronic characteristics during core lifetime on, 22:53385
dynamic behavior of, use of time-discontinuous synthesis method for determining space-dependent, 23:4440
dynamics calculations for, development of computer codes for, 22:12006(R) (ANL-7399)
dynamics calculations for, use of time-step control in FREADM code for coupling of, 23:40425 (CONF-690401-, pp 30-50)
dynamics model for steam cooled, linear, 23:15620
dynamics of 300 MW(e) liquid sodium cooled breeder, time discontinuous approximation analysis of external actuated excursion effects on, (T), 24:18615 (KFK-964, Sect. 1.1-12)
dynamics of breeder, RADYVAR code for calculation of place-dependent, 24:11311(T) (EURFNR-682)
dynamics of in-core thermionic concepts, (T), 25:44097(R) (COO-2109-5)
dynamics of in-core thermionic converter in space, analysis of two region stability and nonlinear, (T), 23:45114(R) (TID-25121)
dynamics of large, effects of isotopic content of fuel on, 22:14180
dynamics of liquid metal cooled, space-time effects in, (T), 24:50234
dynamics of liquid sodium cooled, computer programs for calculation of, 25:46241 (NP-18890)
dynamics of steam-cooled direct-cycle, analog computer simulation of, 23:7386(T) (EURFNR-496)
dynamics of, effects of delayed neutron spectra on, (T), 24:31045
dynamics of, effects of delayed neutron spectra uncertainties on, 23:4439
dynamics of, neutron spectral synthesis equations for, (T), 25:6178
dynamics of, time discontinuous synthesis method for space dependent, (T), 24:33245
dynamics with in-core thermionic converters, (T), 24:50088(R) (TID-25528)
economic analysis for agro-industrial complexes, 23:11167 (ORNL-4290)
economic aspects of gas cooled breeder, in Germany, 25:60013 (KFK-1375)
economic characteristics of 1000 MW(e) sodium-cooled, 22:20851
economic comparison of gas cooled, with sodium cooled and steam cooled concepts, 24:4035
economic comparison with thermal reactors, 22:1797
economic optimization of, effects of breeding ratio, thermal efficiency, and power costs on, 23:52371(T) (JPRS-48331, pp 426-37)
economic prospects for breeder, 21:23617 (RISO-M-532)
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economics and technology of gas cooled, review of, 23:31147
economics for power, in New England to 1985, 21:46862 (NYO-3530-1)
economics in development of European, 21:30136 (EURFNR-287)
economics in Europe of uranium fueled, 21:44880
economics in Great Britain, 21:42746
economics in large power systems, 23:52308(T) (JPRS-48330, pp 39-108)
economics of, 21:46899
economics of, 22:16208
economics of, 21:27721
economics of 1000 MW liquid metal-cooled breeder, effects of safety on, 22:5970
economics of 1000 MW(e) liquid sodium cooled breeder, effects of parameter variation on, 22:16166(T) (EURFNR-384)
economics of breeder power, effects of fuel reprocessing time and thermal efficiency on, 24:11145
economics of breeder siting, 21:44850 (NYO-3530-2)
economics of breeder, predictions of future, 23:15651
economics of dual-purpose power-desalination, in U.S.S.R, 23:15699
economics of dual-purpose, in the Soviet Union, 21:17514 (NP-16558)
economics of French power, prediction to year 2000 of, 21:42749
economics of fuel cycle in sodium cooled 1000 MW(e), effects of plutonium composition on, 22:5922 (EURFNR-399)
economics of gas cooled breeder power, effects of fuel element thermal limits on, 25:5902
economics of gas cooled breeder, (T), 25:57065
economics of gas cooled, effects of fuel element performance on, (T), 25:44131
economics of Japanese, power production analysis of, 21:44881
economics of liquid metal cooled breeder, in mixed electrical generating systems with light water reactors, (T), 25:57061 (MLM-1851)
economics of operation of breeder, for desalination, 22:18544 (STI/DOC-10/80)
economics of plutonium and uranium fuels in, 21:44870
economics of power breeder, 22:5936(T) (JPRS-43265)
economics of power breeder, effects of blanket management on optimum, 23:28500
economics of power, comparison of various reactor types to, 24:50149
economics of power, comparison with other common reactor types of, 25:20749
economics of power, effects of neutron data uncertainties on, (T), 23:5779
economics of Russian breeder, 22:7827
economics of self-sustaining mixed fast and thermal systems, (T), 25:3888 (DP-Report-581)
economics of sodium cooled, effects of carbon dioxide gas turbine cycle on, (T), 25:8079 (BMBW-FBK-70-18)
economics of sodium cooled, effects of fuel cycle on, (T), 24:29026
economics of steam cooled breeder, 23:23861
economics of steam cooled breeder, effects of steam system pressure on fuel cycle and power production, 23:34907
economics of steam cooled, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
economics of steam, helium, and sodium cooled, comparative evaluation of, 24:33356
economics of, analysis for optimization of, 25:37033
economics of, comparison of heavy water reactor economics to, 24:29024 (AECL-3066)
economics of, effects of use of plutonium fuels on, 22:1797
economics of, effects of variations in nuclear data on, 22:5997
economics of, short-term and long-term criteria for, 21:30152 (KFK-569)
economics of, skewed core design of FFTF, 21:21756 (APDA-186)
efficiency criteria for power, 22:39785 (SRARI-P-4)
efficiency criteria for power, description of, 23:31176
electricity production from power breeder, economic potential of, 23:43088
electricity production from power, economic criteria for, 23:31176
emergency core cooling in high pressure gas cooled, description of intermediate pressure secondary system for, 24:38564(P)
emergency core cooling system for gas cooled breeder, description of melted core, 25:1900(P)
emergency core cooling system for liquid metal cooled, description of laminated metal core casing for, 24:50137(P)
energy releases from hypothetical accidents in, calculation and assessment of, 25:54204 (HEDL-TME-71-34)
evaluation of small core, 21:32018
excursion analysis in pulsed, DOPPELAS and SOREX 1 codes for, 22:32966 (EUR-3915)
excursion calculations for, mathematical model with feedback for, 22:53389
excursion calculations for, use of quasistatic method for space-dependent, 23:28609
excursion calculations in, use of temperature-density dependent equations of state for, 24:7149
excursions in cylindrical two-region cores of, FAUN-Z code for severe, 24:22425(T) (EURFNR-703)
excursions in effects of short delay time in reactivity feedback on superprompt-critical, 24:7327
excursions in large modular cores of thermal-, space-dependent effects on, 21:40613
excursions in liquid metal cooled, effects of core trapped coolant on fuel energy release during, (T), 23:43135
excursions in liquid sodium-cooled power, SPES-1 computer program for energy release in uncontrolled prompt critical, 23:23944 (RT/FI-(68)45)
excursions in power, Bethe-Tait-Method for safety analysis of second, (T), 23:11257 (KFK-813)
excursions in sodium cooled, energy release in prompt critical, (T), 24:47883 (RT/ING-(70)2)
excursions in sodium cooled, hydrodynamic response of containment to high energy, (T), 24:43795
excursions in sodium cooled, inelastic response of containment to high energy, (T), 24:43796
excursions in steam-cooled, mechanical damage from kinetic energy release in, (T), 22:18419 (FOA-2-2498-44)
excursions in two zone cylindrical cores of, FAUN-Z code for severe, 24:16216 (KFK-1044)
excursions in, calculation of time distribution of reactivity in super-prompt critical, 23:49572 (ANL-7410, pp 229-337)
excursions in, coupled neutronic-hydrodynamic disassembly analysis of, 24:33387
excursions in, EEM computer program for energy release analysis of superprompt critical, 23:19509 (AE-347)
excursions in, effects of radial fuel zoning on energy release in disassembly, (T), 24:33388
excursions in, effects on vessel cover design of disassembly, (T), 24:33398
excursions in, MARS code modification for calculation of energy release in, 24:33389
excursions in, method for analysis of disassembly, 24:33391
excursions in, pressure generation from molten fuel interactions with sodium coolant in, (T), 24:33390
excursions in, qualitative analysis of effects of shock wave-induced, 22:32735 (ANL-7310, pp 249-375)
excursions in, two-dimensional integral model for analysis of superprompt critical, 25:31599
excursions in, work energy from sodium vapor explosion in disruptive, (T), 24:33396
experiment capsules for, design of, 21:38590
experimental facilities for world-wide, review of operation of, 23:34906
feasibility of gas cooled, with high thermal efficiency, 23:52310(T) (JPRS-48330, pp 164-87)
feedback function of, accuracy of oscillator and rod-drop measurements on, 23:9130 (ANL-7476)
fission density spiking in space, thin europium neutron filters for reduction of, 22:32939
fission product aerosol activity release following accidents in, Karlsruhe research program on, 23:2056 (KFK-798)
fission product concentrations and heat generation in plutonium-239 fueled, calculation of, 23:23912 (KFK-722)
fission product containment following core meltdown, (T), 25:41489
fission product content in, use of FISP code for calculation of, 23:52353 (RD/B/N-1428)
fission product distribution in liquid metal cooled breeder, STP-1 computer program for, 23:43094 (AI-AEC-12847)
fission product release and transport control in sodium-cooled, review of methods for, 22:53396
fission product release and transport in liquid metal-cooled breeder power, state-of-the-art review of, 23:19514 (ORNL-NSIC-37)
fission product release from sodium cooled, safety analyses of containment systems for prevention of, 22:53353
fission product retention in secondary containment following core meltdown accidents, (T), 25:41488
fission product vapor pressure over irradiated fuel elements in, (E/T), 25:44206 (CEA-R-4181)
fission products in liquid sodium cooled, chemical behavior of, 24:13544 (RD/B/N-1512)
fission products in sodium-cooled, chemical behavior of, 24:11661 (RD/B/N-1513)
fission products in, integral measurement of reactivity worths of, (E/T), 25:60034 (AE-428)
fission products in, reactivity worth measurements for, 25:60159 (RCN-150)
fission products in, reactivity worths of, (E/T), 25:15350
fission products in, uncertainties in calculation of decay heat for, 23:37586
fission products released by accidents in liquid sodium cooled, behavior and trapping in containment and cooling systems of, (E/T), 24:11208 (BNL-14242)
fission rates in power, calculations of ratio of photo- and neutron-induced, (T), 23:6002
fuel and material development for, irradiation testing needs and facilities for, 21:38741 (BNWL-CC-511)
fuel assemblies for gas cooled, with water flooding safety system, 22:16244(P)
fuel assemblies for liquid metal cooled breeder, analysis of interchannel coolant mixing in wire wrapped pin type, 25:41426
fuel assemblies for liquid metal-cooled, description of sleeve-enclosed upper fissile material pin and lower fertile material pin cluster-type, 22:42244(P)
fuel assemblies for liquid metal-cooled, description of upward-flow-cooled bundle-arranged multiple tubular pin-type, 23:11243(P)
fuel assemblies for liquid metal-cooled, description of multiple vertical and parallel elongated triple-region, 22:50775(P)
fuel assemblies for liquid metal-cooled, description of helix-shaped coolant duct in tubular-shaped bundle-arranged pin-type, 23:11241(P)
fuel assemblies for liquid-cooled, description of multiple vertical hexagonal-shaped, 22:42252(P)
fuel assemblies for, description of varying thermal expansion materials in support structure of, 24:11198(P)
fuel assemblies for, design requirements of shipping casks for irradiated, 22:42168 (BNWL-SA-2002)
fuel assemblies of breeder, effects of bundle configuration on coolant cross-mixing in finned and unfinned, 23:45076
fuel assemblies of breeder, pressure measurements for turbulent coolant flow in spinal spaced rod type, 24:11195
fuel assemblies of liquid sodium cooled, bubble and vapor slug growth for superheat conditions in, (E/T), 23:49557 (RD/B/N-1418)
fuel assemblies of, description of failure-disconnecting multi-section vertical-suspended, 22:39833(P)
fuel burnup analysis in, computer codes for, (T), 23:13539(R) (BNWL-921)
fuel burnup analysis of plutonium-fueled, DTF—BURN code for, 21:27831 (LA-3671)
fuel burnup and management for large, calculations for, 22:18508
fuel burnup and refueling history of, PHENIX computer program for, 24:29014 (LA-4231)
fuel burnup calculations for, FURNACE computer program for two-dimensional, 23:9119 (JAERI-1164)
fuel burnup calculations for, use of computer program for, 22:16308 (BNWL-640)
fuel burnup for, analysis of mixed-carbide, 23:4238
fuel burnup in 2000 and 8000 liter core breeder, FARED computer program calculation of, 23:9153(R) (BAW-3867-5)
fuel burnup in breeder, calculation of optimum plutonium—thorium—uranium alloy, (T), 23:49568
fuel burnup in multi-zone breeder, refueling method for optimum, (T), 23:2037
fuel burnup in power, use of isotopic analyses of irradiated samples of fissile and fertile materials for calculation of, (T), 23:47321
fuel burnup in sodium cooled converter, effects on physics parameters of, (T), 25:51043 (JAERI-13505)
fuel burnup in, 2DB computer program for, 23:52444 (BNWL-831(Rev.1))

fuel burnup in, analytical methods for, 21:7856(R) (ANL-7255)
fuel burnup in, calculation using DTFBUR code, 21:19496(R) (LA-3607)
fuel burnup in, determination of, 22:39976 (ANL-7450, pp 108-11)
fuel burnup in, methods for measuring, 24:1996 (ANL-7575, pp 177-80)
fuel burnup in, methods of determining, (E/T), 21:21755(R) (ANL-7302)
fuel burnup in, updated computer program for calculation of, 25:26060 (GEAP-5355-A)
fuel burnup measurements in, 21:36073(R) (ANL-7350)
fuel burnup performance in power breeder, analysis of fuel cycle management for optimum, 22:53291
fuel cladding and structural materials development for, 24:988 (GEMP-1012(Pt.2), pp 41-79)
fuel cladding development for sodium-cooled, using stainless steels, 21:30208
fuel cladding development for steam cooled, using nickel-base alloys, 21:30208
fuel cladding for breeder, effects of high-temperature sodium and helium environment on mechanical properties of Type 304 stainless steel and Type 316 stainless steel tube-type, 23:13498 (AI-AEC-12721, pp 165-84)
fuel cladding for breeder, effects of injected helium on tensile properties of thin-walled Types 304 and 316 stainless steel tube-type, 23:13499 (AI-AEC-12721, pp 243-54)
fuel cladding for breeder, FBR development program purchase requirements for Type 304 stainless steel, Type 316 stainless steel, Incoloy 800, and Inconel 625 tubes for, 23:13497 (AI-AEC-12721, pp 161-3)
fuel cladding for breeder-type, properties of stainless steel and vanadium-base alloys for, 24:17194
fuel cladding for liquid sodium cooled breeder, corrosion and compatibility of metal alloy, 25:31568(T) (EURFNR-823)
fuel cladding for Sweden steam-cooled breeder, pressure testing of, 23:11237 (CONF-680419-, pp 291-300)
fuel cladding for, creep rupture at 550 to 700°C of Type 316 stainless steel, 25:52355
fuel cladding for, development of thin-walled small-diameter, 24:29995
fuel composition for fused salt, 21:4420(P)
fuel composition for power, calculation of equilibrium, 23:19497
fuel composition in, integrated model for time-dependent and equilibrium, (T), 25:18150
fuel costs and requirements for 1000 MW(e) sodium cooled, 21:30185
fuel cycle analysis for 1000 MW(e), formulas for economic, 21:21804
fuel cycle analysis for breeder, collapsing method effects on spatial mesh data for, (T), 25:60100
fuel cycle costs for breeder, effects of transuranium isotope production on, (T), 23:6003
fuel cycle costs for converter, 22:32734 (ANL-7310, pp 137-248)
fuel cycle costs for, estimation of plutonium—uranium nitride, 21:19458(R) (BNWL-300)
fuel cycle costs, comparison with high-temperature reactor, 21:25656
fuel cycle economics for liquid metal-cooled power-desalination breeder, analysis of optimum, 22:32910
fuel cycle economics for, comparison with light water reactor fuel cycle economics and, 22:48635 (BNWL-SA-2052)
fuel cycle economics for, evaluation of, 21:46863 (ORNL-4145, pp 275-81)
fuel cycle economics of breeder, 21:27686 (KFK-567)
fuel cycle economics of breeder, methods of calculating, 24:11132
fuel cycle economics of liquid metal cooled breeder, 24:31079 (CONF-700502-, pp 12-29)
fuel cycle for breeder power, analysis of optimum, (T), 23:33055
fuel cycle for breeder power, burnup model for optimum, 23:37419
fuel cycle for breeder power, reactivity worth calculations for optimum, 23:23875(R) (BAW-3867-6)
fuel cycle for breeder, accuracy of space collapse techniques for multigroup calculations of, (T), 25:5965
fuel cycle for breeder, effect of burnup model parameters on economics of, (T), 24:46065
fuel cycle for breeder, effect of collapsing cross section data on calculation of, (T), 25:15352
fuel cycle for large liquid sodium cooled breeder power, effects of sodium void coefficient on optimum economic mixed, 23:43100
fuel cycle for liquid metal cooled breeder power, calculation of optimum economic, 23:49565 (LA-4187)
fuel cycle for liquid sodium cooled breeder, chemical processing requirements for, 25:31568(T) (EURFNR-823)
fuel cycle for thermal converter and, calculation of plutonium, 25:26068
fuel cycle for, chemistry of, 21:10162
fuel cycle for, economic analysis of, (T), 24:33351 (SRARI-P-11)
fuel cycle for, economics of, 25:48276 (CEA-R-4190)
fuel cycle for, economics of, 24:18662
fuel cycle for, economics of plutonium, 21:31940 (LA-3655)
fuel cycle for, economics of re-use, 22:42162(R) (BNWL-254)
fuel cycle for, model analysis for optimum, (T), 23:47312 (CNM-R-2(Vol.3), pp 1348-67)
fuel cycle for, technical and economic aspects of, 23:21580
fuel cycle in breeder, analysis of plutonium—thorium—uranium, (T), 23:45085
fuel cycle in U. K. of 1000 MW(e) power, analysis of performance for, 22:46909 (NP-17599, pp 30-40)
fuel cycle management for breeder power, mathematical model analysis of, (T), 24:18769
fuel cycle management for plutonium—thorium—uranium fueled breeder, analysis of optimum, (T), 23:23925
fuel cycle management procedures for, calculation of optimum, 25:44096 (ANL-7710, pp 53-262)
fuel cycle of breeder, effects of neutron energy group structure on, 24:7136
fuel cycle of breeding, economics using enriched uranium in, 21:27691 (ORNL-TM-1800)
fuel cycle of, effects of startups on thorium, 24:7135
fuel cycle optimization for, 2DBCOST computational system for, 25:44130
fuel cycle performance in, economic comparison of helium cooled and sodium cooled, 24:24841
fuel cycle studies for, 22:33086 (ANL-7310, pp 431-511)
fuel cycles for breeder, development in Japan of optimum long term, 24:52784
fuel cycles for European, description of optimum, 22:35496
fuel cycles for European, development program for optimum, 22:35500
fuel cycles for high temperature, evaluation of, 22:1811
fuel cycles for power, economics of short, 24:11144
fuel cycles for, BICYCL computer program for equilibrium, 24:22405 (GEAP-13556)
fuel cycles for, calculation of uranium burnup and plutonium buildup in various, 25:60095(R) (IAEA-R-742-F)
fuel cycles for, description of optimum uranium-233, 22:35497
fuel cycles for, economics of nitride, (T), 22:22659 (BNWL-606)
fuel cycles for, factors affecting optimization of, 25:34384(T) (JPRS-53069, pp 147-55)
fuel cycles for, model for optimization of, (T), 25:20752
fuel cycles for, optimum fuel utilization in, (T), 25:48279
fuel cycles for, problems and economics of plutonium, 25:54285 (A/CONF.49/P-496)
fuel cycles for, REBUS system for calculation of equilibrium operating conditions of, 25:41445
fuel cycles for, TRACE code for analysis of equilibrium, 25:57020 (EUR-4709)
fuel depletion rate in, development of computer program for design measurements of, 22:9989(R) (BAW-3867-1)
fuel development and testing for, 22:720 (BMI-1809, Sect.A)
fuel development for, 21:23598(R) (EURFNR-268)
fuel development for, 21:13946(R) (ANL-7279)
fuel development for, 21:13947(R) (ANL-7286)
fuel development for breeder, 21:25935(R) (ANL-7225)
fuel development for breeder, status of, 21:7938
fuel development for, mixed uranium—plutonium carbide and nitride, 21:34973 (CEA-R-3223)
fuel development for, thorium, 21:35718 (IN-1104)
fuel development in Japan for breeder, present state of mixed oxide, 23:11244
fuel development program for, operations during April to June 1968 for plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:2032(R) (NUMEC-3524-55)
fuel development program for, operations during July to September 1968 for plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:31166(R) (NUMEC-3524-58)
fuel development program for, operations during October to December 1968 for plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:31167(R) (NUMEC-3524-62)
fuel development, sol-gel process for, 21:30437(R) (BAW-3714-3)
fuel economics of, effects of power requirements on, 22:3832 (KFK-566)
fuel element assemblies for experimental program breeder, fabrication and testing in Japan of, 24:18718(T) (JAPFNR-2)
fuel element assemblies for liquid metal cooled breeder, coolant pressure loss in spiral rib spaced 37 rod bundle, (E), 24:38545 (KFK-1038)
fuel element assemblies for liquid sodium cooled breeder, effects of spacer configurations on heat transfer and fluid flow in, 25:31568(T) (EURFNR-823)
fuel element assemblies for liquid sodium cooled power, design of spacers for bundle type, 24:46048
fuel element assemblies for liquid sodium cooled, hydraulic characteristics of rod type bundle, 24:52917
fuel element assemblies for liquid sodium cooled, vibrations and pressure drops in pin type bundle, 24:52919
fuel element assemblies for liquid sodium cooled, effects of spacer designs on pressure drop in rod type bundle, 24:52918
fuel element assemblies for steam cooled, description of spaced rod bundle, 25:28695(P)
fuel element assemblies for, heat transfer and pressure losses in axial flow through, 21:41097 (IRB-2/66)
fuel element assemblies for, two-dimensional multiregion analysis of temperature fields in clustered rod tube bundles, (T), 22:10022
fuel element assemblies in, heat transfer model for, 23:52339(T) (JPRS-48331, pp 601-50)
fuel element assemblies of liquid metal cooled, description of fission gas plenums for pin type, 24:26786(P)
fuel element assembly for gas-cooled, description of six-fin interlocking, 23:6011(P)
fuel element assembly for, design of, 21:44908(P)
fuel element box deformation in gas-cooled, calculations of, 25:51102
fuel element bundles in gas cooled, heat transfer and fluid flow in, (E/T), 25:60059 (CONF-710606-14)
fuel element burnout in, study of factors affecting occurrence during accidents, 21:15770(T) (ORNL-tr-1563)
fuel element burnup in, 3DB computer program for calculation of, 24:22387 (BNWL-1264)
fuel element burnup in, effects of stoichiometry on Inconel 625-clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin-type, 23:4235
fuel element cladding for liquid metal cooled breeder power, effects of burnup and neutron spectra on failure of, 23:37526
fuel element cladding for liquid metal-cooled, stress analysis of, 23:19495(T) (EURFNR-570)
fuel element cladding for liquid sodium cooled breeder, corrosion problems for titanium—vanadium alloy, 25:37016 (CONF-700211-9)
fuel element cladding for liquid sodium cooled breeder, mechanical properties of austenitic stainless steel, 24:18649 (KFK-964, Sect. 2.1-11)
fuel element cladding for superheating breeder, effects of operating conditions and configuration on stress and temperature distribution in spiral spacer type, 23:33052(T) (EURFNR-607)
fuel element cladding for, compatibility of plutonium carbide (PuC)—uranium carbide (UC) with Type 304 stainless steel, 23:4231
fuel element cladding for, compatibility of plutonium carbide (PuC)—uranium carbide (UC) with vanadium alloys, 23:4232
fuel element cladding for, computer program simulation of neutron radiation damage in stainless steel, 23:4250
fuel element cladding for, development of materials for, 23:24848 (GEMP-1008, pp 115-41)
fuel element cladding for, development of molybdenum—rhenium—tungsten alloy, 23:6651 (GEMP-1004, pp 198-215)
fuel element cladding for, development of refractory metal, 23:6663 (GEMP-1004, pp 216-41)
fuel element cladding for, dimensional stability of, 22:3859
fuel element cladding for, fast neutron radiation effects on creep in, 25:54110
fuel element cladding for, fast neutron radiation effects on, 25:54108
fuel element cladding for, performance of chromium—nickel—austenitic stainless steel alloy, 24:18661
fuel element cladding for, radiation testing programs in Sweden for, 24:40894 (TRG-Report-1911, pp 36-43)
fuel element cladding for, stress and strain calculations for, 25:54114
fuel element cladding materials for liquid-metal-cooled breeder, review of properties of, (E), 22:35425 (BMI-1900)
fuel element cladding of breeder, radiation effects in, 22:53273(T) (EURFNR-472)
fuel element cladding of Type 304L stainless steel, effects of fast neutrons on swelling in, 23:4248
fuel element configuration for 1000 MW(e) liquid metal-cooled breeder, economic analysis of, 22:10005 (KFK-568)
fuel element configuration for, for low coolant volume fraction, 23:2510(P)
fuel element cycle management for gas cooled power, calculation of optimum economic blanket, (T), 24:50093
fuel element cycle management in 1000 MW(e) liquid sodium cooled breeder, calculation of optimum, 24:22412
fuel element cycle testing, 22:3853
fuel element design and fabrication for breeder, plutonium carbide-uranium carbide, 21:7899 (UNC-5137)
fuel element design for liquid metal-cooled breeder, (E), 22:8807(R) (WCAP-3791-10)
fuel element design for, effects of irradiated-materials properties on optimization of, 21:38553
fuel element design to control reactivity of, 21:8167(P)
fuel element development and testing for gas cooled breeder, during November 1968 to January 1969, 23:45083(R) (GA-9229)
fuel element failure in liquid metal cooled, apparatus and methods for detection of, 23:40458(P)
fuel element failure in liquid sodium cooled, effects of fission gas release on propagation of, 23:37587
fuel element failure in U. S. liquid metal cooled power, performance of detection system for, 24:4019
fuel element failure in, analysis of TREAT simulated zero-burnup plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type, 23:4224
fuel element failures in sodium cooled, mechanisms and consequences of, (E), 25:54141 (A/CONF.49/P-27)
fuel element for 1000 MW(e) gas-cooled breeder, fabrication and irradiation testing of Hastelloy X-clad uranium oxide (UO_2) pellet-type, 23:7389(R) (GA-7645)
fuel element for liquid metal-cooled breeder, description of radial-cooled conical annular, 22:35488(P)
fuel element for, comparison of methods for isotopic analysis of, 22:16120 (CEND-308)
fuel element for, with zoned fuel arrangement to reduce effects of irradiation-induced swelling, 23:9244(P)
fuel element management during startup of, in-core, (T), 25:6054
fuel element management in conceptual 250 MW(e) breeder, calculation of optimum, 24:22411
fuel element meltdown and dispersal effects in sodium-cooled, (E/T), 22:27397 (ANL-7375, pp 135-59)
fuel element meltdown in sodium cooled, CABRI in-pile loop program on, 23:31182 (CEA-CONF-1259)
fuel element melting in, calculation of reactivity variations associated with ceramic, 22:53382
fuel element of, effects on coolant flow and fuel assembly deformation of failed pin type, 25:6017
fuel element performance in, computer program model analysis of, 24:7134
fuel element performance in, use of BRAV code for analysis of, 24:52922
fuel element processing for, economics and evaluation of methods for, 21:4592 (ANL-7125, pp 107-18)

fuel element radiation damage in gas-cooled, 22:26093 (ORNL-4229, pp 125-41)
fuel element roughness in, effects on performance of, 21:38491
fuel element spacers for steam-cooled, analysis of optimum design parameters for spiral-shaped, 23:17186(T) (EURFNR-571)
fuel element support apparatus for, design of, 22:1839(P)
fuel element thermal behavior in, model of oxide, 22:4906
fuel element transfer bucket for liquid sodium cooled, description of spill resistant, 25:31582(P)
fuel elements cladding for, stress-rupture strength and creep of cylindrical, (T), 23:52352(T) (JPRS-48331, pp 576-600)
fuel elements for breeder pebble-bed, description of liquid metal-cooled tube-and-shell heat exchanger, 22:35490(P)
fuel elements for breeder power, design parameters for optimum, (E/T), 22:39810
fuel elements for breeder, CYGRO-1 computer program for design parameters of, 23:37528
fuel elements for breeder, description of helical rib spaced cylinder clad rod type, 25:37027(P)
fuel elements for breeder, design criteria for type-304 and -316 austenitic stainless steel cladding for, 22:6019
fuel elements for breeder, design parameters for, 22:33092 (KFK-700(Pt. I))
fuel elements for breeder, design parameters for, 22:53273(T) (EURFNR-472)
fuel elements for breeder, development of, 25:10101
fuel elements for breeder, economics of plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:27423
fuel elements for breeder, effect of internal geometry on radial temperature distribution in cylindrical low-density oxide, (T), 22:44825 (KFK-751)
fuel elements for breeder, effects of internal fins on performance of rod type, 25:18141
fuel elements for breeder, effects of internal fins on power of, (T), 25:10223
fuel elements for breeder, fabrication and testing of mixed-carbide, 22:53463(R) (UNC-5217)
fuel elements for breeder, fabrication of ceramic and cermet, 23:43120
fuel elements for breeder, method for calculation of swelling pressure at high burnup in, 25:47181
fuel elements for conceptual breeder Na-1, eigenfrequencies and eigenfunctions of transverse vibrations of rod, 23:43118 (KFK-923)
fuel elements for gas cooled breeder power, development during August 1967 to July 1968, 23:45082(R) (GA-8787)
fuel elements for gas cooled breeder, irradiation testing of, 25:5990(R) (ORNL-4589)
fuel elements for gas cooled breeder, radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:44125 (ORNL-TM-3427)
fuel elements for gas cooled power, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 24:24836 (ORNL-4508, pp 71-112)
fuel elements for gas cooled, design parameters of, (T), 25:5998
fuel elements for gas cooled, irradiation testing of, 24:4061 (ORNL-4424, pp 75-98)
fuel elements for gas cooled, irradiation testing of, 25:48260(R) (ORNL-4637)
fuel elements for gas cooled, pressure equalization system for, (E), 25:51100
fuel elements for gas cooled, radiation testing of Type 316 stainless steel and Hastelloy X clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:33312
fuel elements for gas-cooled breeder power, development during July 1966 to July 1967 of, 23:17188(R) (GA-8107)
fuel elements for gas-cooled power, radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 23:28488 (ORNL-4353, pp 111-39)
fuel elements for gas-cooled, design of, 21:38463(R) (ORNL-4133)
fuel elements for gas-cooled, effects of surface roughening on performance of, 22:5939
fuel elements for gas-cooled, radiation testing of, 21:38486
fuel elements for helium cooled breeder, development of metal clad mixed plutonium oxide (PuO_2)—uranium oxide (UO_2), 24:50120 (CONF-700401-, pp 864-78)
fuel elements for helium cooled breeder, performance of vanadium alloy clad, 24:50119 (CONF-700401-, pp 854-63)
fuel elements for Japan Experimental, fabrication and testing of, 24:5528 (JAERI-1182)
fuel elements for liquid metal cooled breeder power, performance requirements for delayed neutron monitoring, for detection of failure of, 23:31179 (ANL-7533)
fuel elements for liquid metal cooled breeder, design of, 24:31066 (CONF-700502-, pp 49-58)
fuel elements for liquid metal cooled breeder, fabrication of thorium—uranium alloy compacted powder, 24:31124(R) (ORNL-4538)
fuel elements for liquid metal-cooled, description of tubular-shaped bundle-arranged multiple-chamber pin-type, 23:11242(P)
fuel elements for liquid sodium cooled breeder, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2), uranium oxide (UO_2), uranium oxide (UO_2) cermets, uranium carbide (UC), and uranium nitride (UN), 25:31568(T) (EURFNR-823)
fuel elements for liquid sodium cooled, design of fission gas vented, 24:38546(P)
fuel elements for liquid sodium cooled, development of stainless steel and Incoloy 800 clad plutonium carbide (PuC)—uranium carbide (UC) and plutonium carbide (Pu_2C_3)—uranium carbide (U_2C_3) rod type, 24:7116 (UNC-5229)
fuel elements for liquid sodium cooled, development of hydraulic venting device for ceramic, 25:34360 (RT/ING-(70)29)
fuel elements for liquid sodium cooled, effect of rotating wire spacers on heat transfer in bundle arranged pin type, (E/T), 25:37020 (WHAN-SA-76)
fuel elements for liquid sodium cooled, failure testing of uranium oxide (UO_2) cluster arranged, (E/T), 24:33318
fuel elements for liquid sodium-cooled, description of rod-shaped vented annular, 23:9163(P)
fuel elements for liquid sodium-cooled, radiation effects on, 22:18511
fuel elements for Na-1, analysis of liquid sodium flow induced vibrations in assemblies of pin type, (E/T), 24:43761(T) (EURFNR-745)
fuel elements for Na-1, effects of test loop on parallel flow-induced vibration of, (E), 25:48249 (KFK-1385)
fuel elements for Na-1, reactivity effects of deformation of, 22:53278 (KFK-539/3)
fuel elements for power breeder, development programs for, 24:41015 (TRG-Report-1911, pp 266-86)
fuel elements for sodium cooled breeder, design and safety optimizations of plutonium—uranium carbide, 22:53368
fuel elements for sodium cooled breeder, radiation histories of oxide, 23:23867
fuel elements for sodium cooled, development of, 25:8074 (EURFNR-827)
fuel elements for sodium cooled, development of uranium oxide (UO_2) and uranium carbide (UC), 25:31572
fuel elements for sodium cooled, friction and erosion between spacer grids and, (E), 25:44087(T) (EURFNR-854)
fuel elements for sodium cooled, methods and analysis of failure propagation in, 24:20579 (NP-18150)
fuel elements for sodium cooled, properties of Type 316 stainless steel cladding for, (E), 25:37139 (CONF-700211-7)
fuel elements for sodium cooled, spacer design effects on pressure drop and temperature profile of, (E/T), 24:26773 (KFK-1154)
fuel elements for sodium-cooled, neutron radiation effects on, 22:7808(R) (GEAP-5522)
fuel elements for steam cooled breeder, coolant mixing and heat transfer characteristics of helical ribbed cylindrical, 23:23915
fuel elements for steam cooled breeder, design data for various types of, 23:23916
fuel elements for steam cooled breeder, economic effects of using inner ribbed, 23:34907
fuel elements for steam cooled breeder, effects of high temperatures and pressures on, 23:23916
fuel elements for steam cooled breeder, radiation testing of Inconel clad uranium oxide (UO_2), 25:23286
fuel elements for steam cooled breeder, radiation effects and mechanical testing of, 23:23914
fuel elements for water moderated breeder, radiation effects on swelling of Zircaloy-4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) rod type, 25:15366 (WAPD-TM-986)
fuel elements for, analysis of deformation of, 22:32735 (ANL-7310, pp 249-375)
fuel elements for, analysis of temperature transient-induced cladding failure for, 23:49572 (ANL-7410, pp 229-337)
fuel elements for, behavior during accidents of sodium-bonded metallic, 22:22747
fuel elements for, behavior under transient heating to failure, (E), 24:11185 (ANL-7552)
fuel elements for, BIPPY code for correlation of burnup and cladding damage in, 24:13547 (BNWL-1247)
fuel elements for, burnup analysis of, 21:42725(R) (ANL-7357)
fuel elements for, calculation of stress in cylindrical, (T), 25:48354
fuel elements for, calculation of stresses for optimum design parameters of cylinder shaped, (T), 25:20732 (AERE-R-6516)
fuel elements for, comparison of thermal and fast flux facilities for irradiation testing of, (T), 24:1999 (ORNL-TM-2716)
fuel elements for, compatibility of mixed carbide fuel with cladding in, (E), 25:48270
fuel elements for, conference on, 25:48353
fuel elements for, conference on development of, 22:32771 (KFK-700)
fuel elements for, conference on development of, 25:34361
fuel elements for, description of, 21:40622
fuel elements for, description of central void low enrichment and annular high enrichment regions of ceramic, 25:15369(P)
fuel elements for, description of equipment for high speed photographic analysis of failed, 23:49572 (ANL-7410, pp 229-337)
fuel elements for, description of high-temperature high-pressure, 22:42240(P)
fuel elements for, description of hook-connected longitudinal fin-cooled and -stabilized, 22:42263(P)
fuel elements for, description of insulated creep-resistant sheath-enclosed ceramic, 23:9164(P)
fuel elements for, description of multiple pellet ceramic-filled metal-clad cermet-cylinder, 22:39834(P)
fuel elements for, description of optimum sintered oxide cylindrical pellet-type, 22:32838
fuel elements for, description of porous end plug for rod type, 25:37026(P)
fuel elements for, description of thermal stress resistant metal clad ceramic, 24:9107(P)
fuel elements for, description of vanadium clad pin, chrome cermet, and ceramic coated particle, 23:28368
fuel elements for, design of suspended, 21:31990(P)
fuel elements for, development and fabrication of, 21:11190 (ANL-7155, pp 1-166)
fuel elements for, development and radiation testing of, 24:16200
fuel elements for, development in Italy of, 25:53889 (A/CONF.49/P-188)
fuel elements for, development of analytical procedures for fission-product burnup monitors for, 22:7788(R) (ANL-7382)
fuel elements for, development of fission product hydraulic vents for liquid sodium-cooled ceramic, (E/T), 23:4243
fuel elements for, development of mixed carbide, 23:15679(R) (UNC-5193)
fuel elements for, development of mixed carbide, (E), 25:48271
fuel elements for, development of spacer grids for, 25:48355
fuel elements for, development of vented-to-coolant, (E), 25:48357
fuel elements for, dimensional control problems in fabrication of plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31167(R) (NUMEC-3524-62)
fuel elements for, distribution uniformity of plutonium oxide (PuO_2) in plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, (E/T), 25:18140 (WHAN-SA-7)
fuel elements for, economics analysis of fabrication of, 21:35573 (EURFNR-313)
fuel elements for, effect of internal geometry on radial temperature distribution in, (T), 23:4217(T) (EURFNR-532)
fuel elements for, effects of cladding—pellet parameters on heat transfer from, 25:13155
fuel elements for, effects of core configuration on optimum performance of pin type, (T), 23:21482 (EURFNR-610)
fuel elements for, effects of filtered thermal reactor spectrum on fission distribution in, (T), 25:41400
fuel elements for, effects of fuel-clad gap thermal conductivity on performance of, (E), 25:5999
fuel elements for, effects of fuel-clad interaction at startup on, (E/T), 25:6002
fuel elements for, effects of inner ribs on thermal performance of, (T), 24:29013 (KFK-1118)
fuel elements for, effects of reactor accidents on coolant boiling in clusters of, 22:53373
fuel elements for, effects of smeared neutron density on burnup and thermal performance of mixed-oxide pin, (T), 23:4229
fuel elements for, effects of sodium vapor condensation on deformation of, (E/T), 24:9093 (NP-18060)
fuel elements for, effects of thermal stresses on deformation of, (T), 25:34353(T) (JPRS-53069, pp 204-14)
fuel elements for, effects on Doppler coefficient of diametral variations in, 22:14227
fuel elements for, equipment for disassembly of, 21:30525(P)
fuel elements for, evaluation of cobalt alloys as cladding for, 21:32857 (BNL-11530)
fuel elements for, fabrication and mechanical properties of vanadium and vanadium alloy cladding materials for, 24:8098
fuel elements for, fabrication and properties of vanadium alloys for cladding of, 21:24746 (CEA-R-3152)
fuel elements for, fabrication by vapor cementation, 21:8157
fuel elements for, fabrication costs by sol-gel process, 21:44853 (ORNL-TM-1979)
fuel elements for, fabrication for in-pile radiation testing, 22:732 (EURFNR-318)
fuel elements for, fabrication of plutonium alloy, 21:32938
fuel elements for, fabrication procedures for plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31166(R) (NUMEC-3524-58)
fuel elements for, fast neutron effects and corrosion behavior of canning materials for, 24:24785(R) (RCN-114)
fuel elements for, fatigue strength of stainless steel cladding for, (T), 25:48269
fuel elements for, first startup thermal swelling of mixed oxide, (E/T), 25:6000
fuel elements for, fission product buildup and release rates for uranium oxide (UO_2), (T), 23:28484(T) (AERE-Trans-1109)
fuel elements for, fission product identification for detection of failed, 25:39252 (CEA-Bib-195)
fuel elements for, fission yields from, 21:42725(R) (ANL-7357)
fuel elements for, heat transfer and coolant flow in rod bundle, (T), 25:12801
fuel elements for, hydrodynamic and thermodynamic tests of spacers for, 25:48356
fuel elements for, integral transport theory calculations of resonance absorption in, 22:33012
fuel elements for, internal pressure limits at high burnup rates in, (E/T), 25:20741
fuel elements for, irradiation testing of stainless steel clad mixed oxide, 25:34371
fuel elements for, irradiation testing of stainless steel clad mixed oxide, 25:34372
fuel elements for, ISUNE 1 computer program for performance of mixed oxide, 24:33322
fuel elements for, LIFE 1 computer program for performance of cylinder shaped, 25:12794 (ANL-7736)
fuel elements for, loop design for meltdown in flowing sodium of, 21:38571
fuel elements for, meltdown studies in TREAT, 21:42725(R) (ANL-7357)
fuel elements for, method for forming assemblies of, 25:28652(P)
fuel elements for, nonsteady-state factors in models for, 24:38553

fuel elements for, optimum power gradient in mixed oxide, (T), 24:38554
fuel elements for, performance limits of stainless steel clad uranium oxide (UO_2) pin type, 25:51031(R) (RCN-143)
fuel elements for, problems in development of, 23:34906
fuel elements for, problems in development of, 24:52921
fuel elements for, problems in development of, 25:34355(T) (JPRS-53069, pp 225-35)
fuel elements for, radial temperature distribution in oxide pin-type, 24:12453 (BNWL-1241)
fuel elements for, radiation effects at high temperatures on T-111 clad uranium nitride (UN) pin type, 24:33320
fuel elements for, radiation effects on NUMEC Series B and Series C plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31167(R) (NUMEC-3524-62)
fuel elements for, radiation effects on NUMEC Series A plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet type, 23:31166(R) (NUMEC-3524-58)
fuel elements for, radiation effects on stresses in pin-type, 25:54086 (A/CONF.49/P-392)
fuel elements for, review of development of, 23:52350(T) (JPRS-48331, pp 462-80)
fuel elements for, review of irradiation testing of, 25:51084(R) (GA-10654)
fuel elements for, selection and performance of cladding materials for, 23:22548
fuel elements for, selection criteria for cladding for, 22:32772 (KFK-700(Pt. III))
fuel elements for, selection criteria for cladding for, 22:53273(T) (EURFNR-472)
fuel elements for, shielded container for shipping of irradiated, 25:57720
fuel elements for, solid interlayer to accommodate swelling in, 24:11333(P)
fuel elements for, steady-state irradiation effects on physical properties of uranium oxide (UO_2), (E), 24:13546 (ANL-7571)
fuel elements for, swelling of mixed oxide, (E/T), 25:6001
fuel elements for, techniques for examination of irradiated, 22:32778 (KFK-700(Pt. XII))
fuel elements for, techniques for examination of irradiated, 22:53273(T) (EURFNR-472)
fuel elements for, thermal expansion reactivity coefficients for axially segmented, 24:33262
fuel elements for, thermal, radiation, and mechanical analysis of cylindrical oxide, (T), 25:15371
fuel elements for, transient boiling of liquid sodium in coolant channels of, 21:38493
fuel elements for, transient irradiation testing of mixed oxide, 25:34373
fuel elements for, use of γ spectrometry for cladding failure detection in encapsulated, (E), 25:34359 (LA-4675)
fuel elements for, use of neutron filters for temperature profiles in, 21:27674 (GEAP-5035)
fuel elements for, use of thermal reactor for testing of, 23:49572 (ANL-7410, pp 229-337)
fuel elements for, use of thermal reactors for testing, (T), 25:44165
fuel elements for, use of vanadium cladding on, 23:18199
fuel elements from, design and performance of anticoincidence gamma spectrometer for inspection of, 24:404
fuel elements from, neutron radiographic method for inspection of spent, 24:402
fuel elements in, computer programs for determination of effects of swelling of, 22:53277 (KFK-539/2)
fuel elements of breeder, description of uranium metal thermal insulation for mixed oxide pin type, 24:26782(P)
fuel elements of breeder, effects of coolant hydrodynamic forces on oscillations of, (E/T), 24:18651 (KFK-964, Sect. 4.1-15)
fuel elements of breeder, performance of Incoloy 800 helical fin spacer tubes for, 24:26769(T) (EURFNR-721)
fuel elements of breeder, radiation testing programs in BR-2, FR-2, and MZFR for, 24:18653 (KFK-964, Sect. 10.1-14)
fuel elements of ceramic fueled liquid sodium cooled, performance of hydraulic vents for gaseous fission products in, (E/T), 24:22407 (RT/ING-(69)30)
fuel elements of gas cooled breeder power, pressure equalization system for, 25:6019
fuel elements of gas cooled, irradiation testing program in ORR for manifold vented plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:26771 (GA-9896)
fuel elements of liquid metal cooled breeder, development of delayed neutron monitoring failure detection system for, 25:57055 (JAERI-Memo-4157, pp 84-8)
fuel elements of liquid metal cooled, description of integral gas collecting liquid metal cooled failure sensor for, 23:43122(P)
fuel elements of liquid metal cooled, failure thresholds and mechanisms for, (E), 25:6018
fuel elements of liquid metal cooled, fast neutron radiation effects on swelling of, 25:48256 (CONF-710601-4)
fuel elements of liquid sodium cooled breeder, development of failure detection systems for, 25:57056 (JAERI-Memo-4157, pp 89-100)
fuel elements of liquid sodium cooled Na-1, coolant flow induced vibrations in pin type, (E/T), 25:15370
fuel elements of liquid sodium cooled power, fission gas collection system for, 25:54119 (RT/ING-(71)2)
fuel elements of steam cooled power, calculation of power for highly enriched rod type, (E/T), 24:4063
fuel elements of steam cooled, analysis of burnup and fission product characteristics in, 24:46053
fuel elements of steam cooled, neutron radiation effects on Inconel 625 clad uranium oxide (UO_2) and Incoloy 800 clad plutonium oxide (PuO_2)-uranium oxide (UO_2), 24:7125
fuel elements of, calculation methods for swelling in pin type, 24:7122
fuel elements of, comparison of performance for pin-type, 23:15673(R) (BNWL-541)
fuel elements of, effects of transients on deformation of uranium oxide (UO_2), (E/T), 24:47877 (ANL-7610, pp 259-367)
fuel elements of, FMODEL computer program for mechanical and thermal performance of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:7121
fuel elements of, krypton and xenon fission products in meltdown of plutonium oxide (PuO_2)—uranium oxide (UO_2), (E), 24:7123
fuel elements of, LIFE-1 computer program for in-core performance of, 25:6032
fuel elements of, xenon tagging techniques for failure detection of, 25:6025
fuel elements with spiral spacers for, design parameters and fabrication techniques for, 23:11239 (KFK-768)
fuel fabrication for European, economics of, 22:35499
fuel for breeder power, effects of molten chloride fuel bonding and chloride vapor coolant on performance of plutonium carbide (PuC)—uranium carbide (UC), 24:13549 (EIR-167)
fuel for breeder, comparison of NUPAC and VIPAC fabrication costs for, 23:4246
fuel for breeder, preparation of sodium—uranium nitride, 21:45988(P)
fuel for Japanese 1000 MWe breeder, optimization of plutonium dioxide—uranium dioxide mixes for, 23:10271
fuel for power breeder, use of thorium and uranium-233 in, 21:14033
fuel for, advantages and disadvantages of plutonium-240, 23:37537
fuel for, chemical feasibility of molten chloride, 23:38045
fuel for, development of plutonium, 21:46895
fuel for, economic and technical aspects of plutonium, 21:7945
fuel for, effects of stoichiometry on thermal expansion of plutonium dioxide—uranium dioxide, 22:4878
fuel for, effects on safety of use of uranium-235 in place of plutonium as, 22:53384
fuel for, performance of plutonium oxide (PuO_2) high-burnup, 23:4239
fuel for, preparation of plutonium phosphide—uranium carbide, 22:11037(P)
fuel handling systems for, development of, 25:23295
fuel inventory of breeder, economic aspects of, 21:7942
fuel irradiation for Settled Bed, design of in-pile capsule for, 21:31900 (BNL-998)
fuel lifetime in breeder-type, model for prediction of, 24:10212
fuel loading in, effect of increases in plutonium-239 capture cross sections on required, (T), 23:17182 (ORNL-TM-2459)
fuel loading system of helium cooled breeder, design parameters for, 24:18611
fuel loop for, flow testing of high-temperature sodium—uranium paste, 21:35564(R) (APDA-193)
fuel management and burnup in, FUMBLE code for calculation of, 25:23296 (GEAP-13599)
fuel management in 1000 MW(e), optimization of radial blanket, (T), 25:15378
fuel materials for pulsed, identification of potential, 21:1205 (BMI-X-10170)
fuel materials for, preparation and properties of mixed-carbide, 23:1991(R) (AI-AEC-12680)
fuel meltdown accidents in, distribution of uranium oxide (UO_2) aerosols from, (E/T), 24:43786(T) (EURFNR-738)
fuel meltdown energy release studies for, 22:32871
fuel meltdown experiments in liquid sodium loop for, 22:5974
fuel meltdown transients for, analysis of, 22:32892
fuel melting in, computer code for calculation of ceramic, 22:30202
fuel particles for gas cooled, operating limits for graphite and silicon carbide coated plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:3875 (EURFNR-834)
fuel pellet and rod failure in, probability analysis of, 25:51105
fuel pellets for gas-cooled, fabrication and microstructure of plutonium dioxide—uranium dioxide, 21:32951(R) (BMI-1798)
fuel pellets for ordered-bed, cladding performance under static loads, 21:30101 (BNL-50010)
fuel pellets for ordered-bed, performance under thermal cycling, 21:30101 (BNL-50010)
fuel pellets for, microstructure of plutonium—uranium oxide, 23:36252
fuel performance for test, computer analysis of, 21:38698
fuel performance in, analysis of metal-clad plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:48657 (TID-24680)
fuel performance in, effects of phase segregation on ceramic, 24:19496(R) (GEAP-12047)
fuel performance in, effects of phase segregation on ceramic, 24:19495(R) (GEAP-12032)
fuel performance in, program for analysis of, 25:12768(R) (EURFNR-855)
fuel pin cladding for sodium cooled, CRASH computer program for strain and stress analysis in, 24:16309 (KFK-1050)
fuel pin design for, reliability margin analysis for, 22:32837
fuel pin failure in sodium cooled, TREAT tests of oxide, 24:33450
fuel pins for breeder, development program in Germany for, 24:41013 (TRG-Report-1911, pp 82-100)
fuel pins for Na-1 and Na-2, vibration frequencies of mockup, (E/T), 25:36993 (KFK-1337)
fuel pins for Na-1 concept, effects of spacer grid distribution on vibration of, (E), 25:54095(T) (EURFNR-903)
fuel pins for Na-1, effects of test loop on parallel flow induced vibration of, 25:44119 (EURFNR-923)
fuel pins for, design of helium-bonded plutonium carbide—uranium carbide, 21:8145
fuel pins for, effects of severe overpower transients on, (E), 25:46268 (ORNL-TM-3384)
fuel pins for, evaluation of model for prediction of deformation of, 24:38551
fuel pins for, pressure and temperature effects on failure of, (E), 25:23310 (EURFNR-884)
fuel pins for, sodium-loop experiments on, 21:46906
fuel preparation process for, 21:27824(R) (BAW-3714-2)
fuel processing for, 22:27863(R) (ORNL-4204)
fuel processing for, salt-transport method of, 21:14310
fuel reactions with coolant in, 21:25935(R) (ANL-7225)
fuel reloading of 1000 MW(e) liquid metal-cooled breeder, description of, 22:9990(R) (BAW-1312)
fuel reprocessing costs for breeder, effects of cooling time on, 24:9463
fuel reprocessing for, 22:27867 (ORNL-4204, pp 52-9)
fuel reprocessing for, 21:30093(R) (ANL-7317)
fuel reprocessing for, 21:31898(R) (ANL-7329)
fuel reprocessing for breeder, 24:44060 (ANL-7650, pp 1-14)
fuel reprocessing for breeder, 23:26319 (ANL-7550, pp 7-22)
fuel reprocessing for European, economics of, 22:35499
fuel reprocessing for, development of fluoride volatility processes for, 23:19820 (CONF-680610-, pp 65-78)
fuel reprocessing for, developments in pyrochemical methods for, 23:17543
fuel reprocessing for, economics of, 21:19401
fuel reprocessing for, evaluation of problems in, 25:10672
fuel reprocessing for, in Germany, 25:39582
fuel requirements for breeder, evaluation of plutonium, 22:7804 (EURFNR-422)
fuel requirements in the United Kingdom for breeder-type, estimates of plutonium, 23:10196
fuel requirements in the United States for breeder-type, estimates of plutonium, 23:10197
fuel rod assemblies for gas cooled breeder, effects of coolant flow blockage on failure propagation in, 25:41437
fuel rod cladding for steam cooled breeder power, effects of spiral spacer configurations on stress and temperature distributions in, 23:31165 (KFK-805)
fuel rod development for gas-cooled, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
fuel rods for gas cooled, effects of surface roughening on heat transfer characteristics of, (T), 25:28696
fuel subassemblies for, computer programs for deformation and expansion effects of, 23:15599(T) (EURFNR-541)
fuel subassemblies for, use of conical array for reduction of coolant pressure drop in, 25:34377(P)
fuel subassembly ducts for, structural analysis of, (T), 24:33394
fuel subassembly for liquid metal cooled breeder, description of bundle arranged pin type, 23:45086(P)
fuel supply and processing requirements for power, 23:52349(T) (JPRS-48330, pp 109-22)
fuel supply for world-wide power, forecast of plutonium, 22:48693
fuel swelling in, analysis of stainless steel-clad mixed-oxide, 23:4242
fuel system design for breeder, 21:19436(P)
fuel system for, calculation of optimum economic thorium oxide (ThO_2)—uranium-233, plutonium oxide (PuO_2)—uranium oxide (UO_2), and enriched uranium oxide (UO_2), (T), 22:46961
fuel temperature distribution in liquid sodium-cooled breeder, effects of stationary fission gas bubbles on stainless steel-clad sodium-bonded mixed-carbide, (E/T), 23:15639 (CONF-680832-2)
fuel test facility for, EOCR modification for, 21:8043 (IN-1049)
fuel transmutations in, effects of neutron radiation on plutonium-239, 22:32893
fuel use in power, comparison with thermal reactors of power, efficiency of, 23:52370(T) (JPRS-48330, pp 18-38)
fuel vaporization during postulated accidents, 22:5949
fuel-cycle costs for 1000 MW(e) gas-cooled, (T), 22:27413 (GA-8032)
fuel-flow restrictor screens for, testing of metallic and ceramic for melted, 23:4263
fueling of, calculation of parameters for uranium-233, 21:31903(R) (BNWL-CC-500)
fuels and components for steam cooled breeder, review of development of, 23:23861
fuels for 1000 MW(e) high-temperature gas-cooled breeder, physics parameters of plutonium oxide (PuO_2)—uranium oxide (UO_2) and plutonium carbide (PuC)—uranium carbide (UC), 23:11238 (EURFNR-580)
fuels for breeder, corrosive effects of ceramic—sodium paste-type, on stainless steel, 22:2573
fuels for breeder, development of carbide, 24:38542(T) (EURFNR-722)
fuels for breeder, utilization of plutonium, 23:2130 (BNWL-SA-2065)
fuels for FBR development program of breeder, carbon activities in plutonium carbide (PuC)—uranium carbide (UC), 23:13500 (AI-AEC-12721, pp 255-60)
fuels for gas cooled, chemical reactions of cladding with mixed oxide, (E/T), 25:44123 (ORNL-TM-3385)
fuels for gas-cooled, performance analysis of coated particle, 22:42215
fuels for helium cooled breeder, development of coated particle, 24:50118 (CONF-700401-, pp 833-53)
fuels for homogeneous, properties of uranium and plutonium trichlorides for, 21:40589

fuels for liquid metal cooled breeder, development in Japan of plutonium bearing, 25:54094 (A/CONF.49/P-821)
fuels for liquid metal-cooled breeder, criticality of, effects of composition and configuration on, 23:17522 (Y-DR-9)
fuels for liquid metal-cooled breeder, preparation by Sphere-Pac and pelletization of sol-gel particles, 24:30019 (CONF-700502-, pp 323-41)
fuels for power, economic comparison of plutonium and uranium, 24:11146
fuels for sodium cooled, physics parameter effects of carbide and oxide, 25:51096 (JAERI-13661)
fuels for sodium-cooled breeder, properties of ceramic, 22:30123 (BNWL-SA-1550)
fuels for sodium-cooled, development of ceramic, 21:34108(R) (GEAP-5198)
fuels for sodium-cooled, development of ceramic, 21:34109(R) (GEAP-5292)
fuels for sodium-cooled, radiation effects on carbide, 21:26925 (BMI-1799)
fuels for steam-cooled breeder power, effects of new plutonium 239-α data on breeding potential of, 23:17187(T) (EURFNR-586)
fuels for superheating, description of thermal or epithermal neutron resonance absorber, 23:21494(P)
fuels for, aerosol properties of vaporized, 22:5950
fuels for, analysis of fission products for burnup of, 24:52926
fuels for, analysis of thermal performance of plutonium nitride (PuN)—uranium nitride (UN), 22:32818
fuels for, analysis of transient performance of mixed oxide powder, 23:37570
fuels for, Belgian programs for development of, 25:54083 (A/CONF.49/P-275)
fuels for, best-equations solution for effects of fission products on heating in plutonium, (T), 23:13443
fuels for, bibliography covering 1958 to 1968 on, 24:14658 (CEA-Bib-149)
fuels for, burnup and heat rating parameters of, 24:18660
fuels for, chemical behavior during irradiation of, 21:36073(R) (ANL-7350)
fuels for, chemistry of, 24:43935 (ANL-7650, pp 35-40)
fuels for, chemistry of, 22:52257 (ANL-7425, pp 94-129)
fuels for, comparison of burnup and heat rating values of carbide, metal alloy, and oxide, 24:18668
fuels for, comparison of fissile inventories and doubling times for plutonium-239 and uranium-233, 23:52357
fuels for, correction factor for in-reactor sintering of oxide, 23:6047
fuels for, density control of plutonium dioxide—uranium dioxide, 22:4860
fuels for, description of revised nuclear data library for irradiated, 23:31155 (BNWL-962)
fuels for, development and testing stainless steel—uranium dioxide cermet, 23:8363
fuels for, development of, 21:35572 (EURFNR-312)
fuels for, development of, 22:16265(R) (ANL-7403)
fuels for, development of, 23:11235(R) (BNWL-919)
fuels for, development of burnup determination methods for, 25:34352 (IN-1456)
fuels for, development of ceramic, 21:8122(R) (GEAP-5158)
fuels for, development of ceramic, 21:23659
fuels for, development of compacted rod-type plutonium dioxide—uranium dioxide, 23:10301
fuels for, development of metallic, 21:23659
fuels for, development of mixed oxide, 21:38457(R) (GEAP-5491)
fuels for, development of plutonia—urania, 21:35574 (EURFNR-314)
fuels for, development of plutonium—uranium, 21:30216
fuels for, development of reprocessing techniques for, 21:42725(R) (ANL-7357)
fuels for, developments of plutonium alloys and ceramics for use as, 21:11191 (CONF-661003-13)
fuels for, economics of plutonium, 21:2846
fuels for, economics of plutonium and uranium-235, 21:42748
fuels for, economics of plutonium stockpiling for, (T), 25:23301
fuels for, effects of densification and restructuring on temperature distribution in, (E), 25:41420
fuels for, effects of fabrication variables on reprocessing of nonirradiated, 25:39583
fuels for, effects of high burnup on stoichiometry shift in mixed uranium oxide (UO_2)—plutonium oxide (PuO_2), (E/T), 25:28690(T) (EURFNR-836)
fuels for, effects of pressure and temperature on melting behavior of plutonium nitride (PuN)—uranium nitride (UN), 23:11236 (BNWL-919, pp 6.1-3)
fuels for, effects of reactor transients on heat transfer characteristics of ceramic, 22:32735 (ANL-7310, pp 249-375)
fuels for, effects of time after discharge on transuranium element composition of, (T), 24:26775 (ORNL-TM-2897)
fuels for, evaluation of advanced driver, 21:27827 (BNWL-SA-1042-S(Rev.B))
fuels for, fabrication of plutonium carbide nitride—uranium carbide nitride, 21:32951(R) (BMI-1798)
fuels for, fast neutron radiation effects on, 25:54108
fuels for, fast neutron radiation effects on creep in, 25:54110
fuels for, heat capacity of uranium oxide (UO_2), 22:53260 (ANL-7425, pp 130-71)
fuels for, in-pile creep of uranium oxide (UO_2), (E/T), 25:41415
fuels for, integral measurements of α for, (E/T), 25:15348
fuels for, irradiation capsule for in-pile creep measurements on, 25:44086(T) (EURFNR-853)
fuels for, irradiation testing of mixed oxide, 23:52351(T) (JPRS-48331, pp 481-94)
fuels for, irradiation testing of stainless steel—plutonium dioxide cermets, 21:8149
fuels for, long-term variations in balance parameters of, (T), 25:15377
fuels for, long-term variations in isotopic composition of enriched uranium, (T), 25:15376
fuels for, low-mass atom production in fast-neutron fission of plutonium and uranium, 22:46859 (ANL-7434)
fuels for, melt decladding of, 25:39584
fuels for, method of fabricating plutonium dioxide—uranium dioxide, 22:7032(R) (NUMEC-3524-43)
fuels for, methods for fabrication of ceramic, 25:32774 (GEAP-13582)
fuels for, neutron capture to fission ratio in, (E/T), 24:22502
fuels for, neutron irradiation effects on, 22:6138(R) (LA-3820)
fuels for, neutron irradiation effects on, 22:27487(R) (LA-3880)
fuels for, nonstoichiometric effects on microstructure of irradiated plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:4241
fuels for, postirradiation examination of plutonium dioxide—uranium dioxide, 21:8155
fuels for, preparation and properties of ceramic, 22:6138(R) (LA-3820)
fuels for, preparation of plutonium dioxide—uranium dioxide, 21:8154
fuels for, preparation techniques for carbide, 22:12006(R) (ANL-7399)
fuels for, production of high quality mixed oxide, 24:46769 (BNWL-1445)
fuels for, properties of plutonium nitride—uranium nitride, 24:10206
fuels for, properties of uranium carbide (UC)—plutonium carbide (PuC), 25:34354(T) (JPRS-53069, pp 215-24)
fuels for, radiation performance of clad plutonium—uranium-base, in-pile, 23:10240
fuels for, radiation performance of dense clad plutonium dioxide—uranium dioxide at high burnups, 23:10300
fuels for, radiation testing programs for, 24:41014 (TRG-Report-1911, pp 101-15)
fuels for, radioinduced swelling of, 24:10195(T) (WAPD-Trans-124)
fuels for, reprocessing of, 22:40177 (KR-126, pp 385-93)
fuels for, review of development and testing of, 22:16330
fuels for, review of properties of, 24:48889
fuels for, review of properties of plutonium carbide—uranium carbide, 25:24625 (BARC/I-61)
fuels for, safety aspects of use of recycle plutonium as, 22:53386
fuels for, salt transport method for reprocessing ceramic, 22:40184 (KR-126, pp 476-93)
fuels for, sintering methods for fabrication of plutonium nitride—uranium nitride, 21:32951(R) (BMI-1798)
fuels for, steady state and transient performance of, 24:24785(R) (RCN-114)
fuels for, steady state time effects on isotopic composition of, 22:18476
fuels for, swelling of irradiated plutonium dioxide—uranium dioxide, 21:8156
fuels for, temperatures and kinetics for restructuring of mixed oxide, (E/T), 25:44124 (ORNL-TM-3387)
fuels for, thermal analysis of uranium dioxide, 23:36230
fuels for, use of hybrid computer for solution to energy equations for, 24:7118
fuels for, use of plutonium, 23:40373
fuels for, utilization of plutonium in, 25:54126 (A/CONF.49/P-185)
fuels from, aqueous methods for reprocessing, 22:40179 (KR-126, pp 405-14)
fuels from, equipment and methods for safe shipping of irradiated, 24:20968 (KFK-666)
fuels from, pyrometallurgical processes for reprocessing, 22:40182 (KR-126, pp 452-67)
fuels in France for breeder, development of, 24:33321
fuels in, burnup efficiency of, 25:54135 (A/CONF.49/P-709)
fuels of, effects of accident conditions on heat transfer of plutonium carbide (PuC)—uranium carbide (UC) particle shaped, 24:47877 (ANL-7610, pp 259-367)
gamma radiation energy deposition in, distribution of, 25:5970
gamma radiation fluctuation measurements in, determination of dynamic parameters by, (T), 24:47945 (CONF-680980-, pp 25-33)
gas turbine plants for gas cooled power, temperature-eutropy diagrams and efficiency of steam and helium, 23:11266
gas turbine system for gas-cooled power, thermodynamics and safety requirements for economic closed cycle, 23:13367 (EIR-141)
heat exchanger for, design of improved, 23:7689(P)
heat exchangers for direct cycle gas turbine helium cooled, optimum design parameters of, 25:20775
heat exchangers for gas turbine incorporating, review of development of, 25:23724 (EIR-187)
heat exchangers for liquid metal cooled, development in Netherlands of, 24:52896
heat exchangers for liquid metal cooled, testing program for intermediate, 24:52903
heat exchangers for liquid sodium-cooled power, safety problem analysis for single-wall sodium and water liquid—liquid, 23:17183(T) (CONF-670916-4)
heat exchangers for sodium-cooled breeder, description of intermediate and secondary, 25:18574
heat exchangers for, design of helical coiled-, and straight tube-bundle, 23:47227 (ANL-7520(Pt.1), pp 515-26)
heat exchangers in Japan for breeder, development of liquid metal—liquid metal intermediate, 25:18133
heat transfer calculations for gas cooled, numerical methods for analyzing steady-state, 24:18781
heat transfer calculations for steam cooled, 22:16200
heat transfer characteristics of liquid metal cooled, (E), 25:1851(R) (EURFNR-822)
heat-release distribution in, effect of boron absorber rods for burnup compensation on, (E/T), 22:35551
helium production in structural materials by (n,α) reactions, method for measuring, 23:5860
heterogeneity effects in, computer program for calculation of, (E/T), 22:35470 (RT/FI-(68)11)
hot channel factors for liquid sodium-cooled, statistical method for evaluating, (T), 23:19549 (EURFNR-604)
hydraulics in liquid sodium cooled, design problems with liquid sodium, 24:52910
industrial aspects of breeder, review of 3rd Foratom Congress on, 21:42758
instrumentation cables for, measurement of radiation induced noise in metal oxide insulation of, (E), 25:15354 (WHAN-IR-42)
instrumentation for, descriptions and requirements for nuclear startup and operations, 23:37481 (CONF-680625-3)
instrumentation for, development of coolant flow-linked protective, 24:7148
instrumentation for, review of, 23:746
integral experiments in, model for correlation of fast neutron spectra with, 22:50833
integral measurements by propagation methods in, theory of, 21:35561 (ANL-7320, pp 714-23)
kinetic distortion for, calculation of, (T), 24:7319
kinetic equations for periodically pulsed, development of inhour equation from formulation of discrete, 23:37696
kinetic equations for, description of reaction-coefficient method for calculating heterogeneity effects in, 23:52461 (KFK-743)
kinetic equations for, energy models for overlapping-group solutions to, 24:7280
kinetic equations for, formulations of microscopic multigroup cross sections for solution to, 23:49651 (ANL-7410, pp 387-442)
kinetic equations for, use of continuous slowing down theory in inelastic region for solution of, 24:18764 (RPI-328-184)
kinetic equations for, use of Kantorovitch variational principle for solution to time- and position-dependent multigroup transport, 23:52462 (KFK-781/I)
kinetic parameters for gas cooled, calculation of effects of delayed neutron data uncertainties on, 23:37463
kinetics analysis of, use of multiple weighting functions in space—energy synthesis method for, 25:12854
kinetics calculations for, effects of flux shape-function time derivative on spatial, 22:33159
kinetics calculations for, space-time dependent, 21:40531 (ANL-7290, pp 188-215)
kinetics description of, use of spatially discontinuous Green's function modes for, 23:13576 (RPI-328-142, pp 132-51)
kinetics equations for coupled-core thermal-, exponential approximation for solution to, 21:40612
kinetics equations for large, evaluation of accuracy of factoring methods for space-dependent, 23:49651 (ANL-7410, pp 387-442)
kinetics equations for large, shape functions for solution to quasistatic, 23:49651 (ANL-7410, pp 387-442)
kinetics equations for power, multigroup two-dimensional synthesis calculations for, 22:6012
kinetics equations for TAPIRO research, approximate analytical solution for, (E/T), 22:30313
kinetics equations for, development of synthetic scattering kernel for solution to multigroup, 23:37713
kinetics equations for, heterogeneity effects on adjoint function in, (E/T), 25:26059 (RT/FI-(70)19)
kinetics equations for, solution by indirect analogy technique to, 22:1878 (ANL-7307)
kinetics equations for, space-energy synthesis techniques for solution to, 22:32826
kinetics equations for, technique for use of reaction rates as weighting functions in space-energy synthesis solutions to, 23:37726
kinetics equations for, use of increased time steps in iterating prompt-jump approximation for solution to, 23:37719
kinetics equations for, use of prompt jump approximation for solution of, 24:4140
kinetics equations for, use of synthesis method in spectrum form for solution to one-dimensional multigroup diffusion-, 23:52443 (AI-AEC-12820)
kinetics for pulsed, analysis of periodic function reactivity and asymptotic quasi-periodic flux conditions on, (T), 23:4407 (RT/ING-(68)16)
kinetics for, digital computer programs for calculating, 25:23392 (ANL-7713)
kinetics for, formulation of separable kernel slowing down theory for, (T), 24:50225
kinetics for, FRIC computer program for multigroup point model of, 23:21466 (RD/B/N-1304)
kinetics for, research at Argonne National Laboratory during July 1969 to June 1970, 25:44190(R) (ANL-7710)
kinetics model for, description of modified adiabatic spatial, 22:33086 (ANL-7310, pp 431-511)
kinetics of 1000 MW(e) liquid sodium cooled breeder, effects of burnup and fuel cycle management on, (T), 24:4043
kinetics of 2500 MW(t) helium cooled, effects of fuel and cladding materials on, 23:33036(T) (EURFNR-609)
kinetics of breeder power, comparison of ABN, KFK-SNEAK, and KFK 26-10 group constant sets for, 23:33037 (EURFNR-625)
kinetics of breeder, (T), 25:20708
kinetics of conceptual Japan 1000 MW(e) liquid sodium cooled breeder, calculation of optimum, 23:47182 (ANL-7520(Pt.2), pp 99-109)
kinetics of coupled core thermal, calculation of linear time variation, (T), 25:34328
kinetics of coupled thermal-, description of model for space-dependent, 22:33086 (ANL-7310, pp 431-511)
kinetics of coupled, use of vector matrix differential equations for space-dependent, 21:40604

kinetics of gas cooled, in regions of small perturbations, 23:52450(T) (JPRS-48330, pp 355-68)
kinetics of gas-cooled breeder, review of elementary design, 23:26026 (ANL-7532)
kinetics of liquid sodium cooled, effects of fuel element deformation on, 24:18650 (KFK-964, Sect. 3.1-15)
kinetics of multi-region, regional neutron-balance method for analysis of, 21:10166
kinetics of multizone subcritical, multigroup model for time dependent, 24:33409 (GA-9946)
kinetics of plutonium—uranium alloy fueled, effects of fission products on, 23:40338
kinetics of power, comparison of Euler and Kantorovich methods for, (T), 24:22493
kinetics of pulsed, effects of periodic reactivity and quasi-periodic neutron flux conditions on, (T), 25:44196(T) (LA-tr-71-44)
kinetics of pulsed, numerical method for analysis of, 21:14099
kinetics of rocket, effects of yttrium hydride (YH) moderator on, 23:2087 (N-68-29950)
kinetics of sodium-cooled, 21:27698
kinetics of sodium-cooled, review of, 21:15731
kinetics of superheating breeder, effects of Loeffler boiler characteristics on, 23:43099
kinetics of symmetrically reflected, validity of point model for subcritical, 25:10307 (ORNL-TM-3136)
kinetics of two-zone, two-point multigroup model for time-dependent analysis of, (E/T), 23:52404(R) (GA-9669)
kinetics of, analysis of discrete ordinate ray effects on, (T), 25:6159
kinetics of, analysis of few rod experiment programs for, (E/T), 24:36002 (EUR-4470)
kinetics of, book on, (T), 24:26830
kinetics of, calculation of narrow resonance reaction rates and neutron slowing down density, (T), 24:46020
kinetics of, comparison of MELT 2 and FORE 2 and NUTIGER computer programs for, 23:33080(R) (BNWL-1053)
kinetics of, comparison of methods for, (T), 24:31048
kinetics of, comparison of three dimensional diffusion theory computer programs for, 25:15343 (WHAN-IR-48)
kinetics of, comparison with thermal reactors of, 24:47825
kinetics of, description of multimode analysis for space dependent, (T), 24:22492
kinetics of, development of accurate group constants for, 24:46017
kinetics of, effects of plutonium oxide (PuO_2)—uranium oxide (UO_2) inhomogeneity on transient, 24:7078
kinetics of, effects of plutonium-239 neutron capture-to-fission ratio uncertainties on, (T), 24:46019
kinetics of, ETOX computer program for group constants calculations for, 23:31231 (BNWL-1002)
kinetics of, multiple reaction rate weighting for space-energy synthesis of, (T), 25:5966
kinetics of, one dimensional multigroup diffusion computer program for, 25:36992 (JAERI-Memo-4331)
kinetics of, PERT-5 computer program for, 23:52445 (BNWL-1162)
kinetics of, QX1 code for analysis of transient spatial, 25:51039 (ANL-7769)
kinetics of, research on, 21:23659
kinetics of, review of development programs for, (E/T), 24:16157 (BNL-50117, pp 77-85)
kinetics of, semidirect least squares variational methods for initial—value problems in, (T), 22:14296 (RPI-328-100, pp 140-87)
kinetics of, slowing down theory for, (T), 25:23258 (RPI-328-217)
kinetics of, solution of transport theory mass-energy flux synthesis equations for, (T), 23:45129
kinetics of, space-energy synthesis calculations of, 24:33491
kinetics of, successive space-energy synthesis method for, (T), 25:5962
kinetics of, use of binary cross-correlation method for dynamic responses in, 24:11163 (AEEW-M-548)
kinetics parameters of, few-group and modal method calculations of, 25:15407
loading machine for demonstration 300 MW(e) gas cooled, design parameters and operation sequence for, 25:41439 (CONF-710315-7)
loading machine for liquid metal-cooled, description of shielded valve sealed dual oblique ramp, 23:23920(P)
loading machine for liquid sodium cooled, 25:31581(P)
loading machine for liquid sodium cooled breeder, description of extension tube grab type, 24:52943(P)
loading machine for liquid sodium-cooled, description of pressure vessel-penetrating externally-driven vertical axis-rotating turntable with extending arm and grippers, 22:39801(P)
loading machine for liquid sodium-cooled, description of pressure vessel-penetrating horizontal pivot and transverse member vertical-access, 22:39800(P)
loading machines for liquid sodium cooled, design parameters and operation requirements of, 24:52932
maintenance of helium cooled breeder, requirements for, 24:18611
malfunction detection in, design and standards for systems for, 22:53370
materials development for, 21:7939
materials development for, 21:9083 (GEMP-61, pp 111-18)
materials development for, 21:7885(R) (NAA-SR-12175)
materials for breeder, effects of fast neutrons and temperature on void formation in, 25:34325
materials for breeder, effects of liquid sodium at 1200 to 1500°F on mechanical properties of, 21:30971
materials for compact space power, testing of, 25:40035
materials for high-temperature, development of core and fuel, 22:16168
materials for Japanese, development of structural, 24:14666
materials for liquid metal-cooled breeder, properties of, 24:7375
materials for liquid-metal breeder, research on, 21:26864 (BNWL-SA-972)
materials for, development in high-temperature design criteria for, 25:49342 (CONF-710315-25)
materials for, development of control, reflector, and shielding, 24:949 (GEMP-1012(Pt.2), pp 311-64)
materials for, effects of high temperature sodium on, 22:8725(R) (MSAR-67-207)
materials for, neutron data evaluation for, 21:33853 (EANDC(E)-78(U))
materials for, properties of stainless steel and steel, 25:4770
materials for, radiation effects on cladding and structural, 24:34920(R) (AD-703617)
materials for, review of neutron energy spectra for analyzing radiation effects on, 24:7082
meltdown accident analysis using PREAX code, 21:30091(R) (ANL-7210)
meltdown accident of 1000 MW(e) ceramic-fueled, Bethe-Tait analysis of parameters for, 22:1761 (GEAP-4809)
metal swelling in, design, development, and research implications of core-, 25:45090 (ANL-7786)
metals for, effects of interstitial loop-void interactions on radioinduced swelling in structural, 23:36157
model development for steam-cooled power, description of nonlinear dynamic analog and digital computer, 23:13439 (AE-341)
moderator distribution in core of, Doppler coefficient control by, 21:8173(P)
monthly progress report on, Argonne National Laboratory, 23:4164(R) (ANL-7478)
neutron adjoint flux measurements in, reactivity oscillator method for, 21:35560 (ANL-7320, pp 688-92)
neutron buckling determination in multizone, progressive substitution method for, 21:35556 (ANL-7320, pp 429-38)
neutron capture in, methods for analysis of, 24:33271
neutron capture rates in uranium-238 in, 21:25721
neutron capture to fission rates in, absolute measurements of, (E/T), 24:16168
neutron capture-to-fission ratios in, measurement of plutonium-239, (E/T), 24:33247
neutron capture-to-fission ratios in, measurement of plutonium-239, uranium-235, and uranium-239 effective, (E/T), 24:33248
neutron characteristics in pulsed, 24:46013 (BNL-50205, pp 1-15)
neutron collision densities in, analysis of effects of resonances of moderating elements on, 23:49581 (ANL-7410, pp 73-227)
neutron collision density for, 21:7694 (IA-1082, pp 27-74)
neutron collision density in, effects of elastic slowing down in Doppler region on, 23:49581 (ANL-7410, pp 73-227)
neutron collision density spectrum of superheating steam-cooled, KFK-SNEAK 26-group set for, (T), 23:9131(T) (EURFNR-533)
neutron column for, description of center-core concentric-cylinder-spaced ring-arranged fuel elements for fast, 23:15604(P)
neutron cross section calculations using the F.D.2 computer file, 21:5456 (AEEW-R-491)
neutron cross section measurements in, using spherical shell method, (E), 21:21526
neutron cross section values for, 1DX computer program for generating effective, 23:31154 (BNWL-954)
neutron cross sections and resonance parameters for, tables of, 22:46695 (EURFNR-537)
neutron cross sections for liquid sodium cooled, effects of component compositions on effective inelastic, (T), 24:36007
neutron cross sections for superheating, combined MC^2 and THERMOS computer programs for thermal and epithermal, 23:47332 (CNM-R-2(Vol.3), pp 1446-59)
neutron cross sections for, codes for calculation of effective multigroup, 24:47934 (ANL-7610, pp 465-537)
neutron cross sections for, detailed method for calculating low energy multigroup, 23:28447
neutron cross sections for, digital computer programs for large scale generation of, 23:31153 (AEEW-R-622)
neutron cross sections for, error incurred in collapsing five group, 21:23711(R) (BNWL-340)
neutron cross sections for, MC^2-THERMOS generation of thermal, 22:33086 (ANL-7310, pp 431-511)
neutron cross sections for, method for calculating resonance-screened group, (T), 23:5745 (AE-334)
neutron cross sections for, method for condensed calculations of, (T), 24:26831
neutron cross sections for, PROF GROUCH-G code for processing, 24:40924 (JAERI-1192)
neutron cross-section data for, status of, 23:5797
neutron cross-section measurements for, effects on Doppler coefficient of temperature-dependent, (T), 22:35709
neutron damage flux in thermionic space-power, effect of moderator incorporation on fast, (T), 23:15696
neutron decay constant of, noise analysis method for determination of prompt, 23:28625
neutron decay constants in, comparison of Rossi-alpha and pulsed-neutron techniques for measuring prompt, (E/T), 22:5732
neutron decay in, statistical technique for measurement of prompt, 21:25671
neutron detectors for, review of in-core, 24:4044
neutron diffusion equation for, spectral-synthesis method for solution of, 25:23263
neutron diffusion equations for sodium- and steam-cooled, 26-group constants for, (T), 22:53066 (KFK-770)
neutron diffusion equations for two-dimensional cylindrical, use of discontinuous variational synthesis technique for solution static multigroup, 23:49651 (ANL-7410, pp 387-442)
neutron diffusion equations for, use of discontinuous overlapping groups without staggered discontinuities for solution to, 23:4444
neutron diffusion equations for, use of line inversion acceleration scheme for iterative solution to two-dimensional multigroup, 23:26107 (BNWL-SA-2164)
neutron diffusion in small, analysis using asymptotic methods, 21:25634 (UCRL-70012)
neutron diffusion in, spectra from space—energy synthesis of multigroup, (T), 25:18232
neutron diffusion theory for, multigroup, 21:7694 (IA-1082, pp 27-74)
neutron distribution in, calculation by modal approximations of stationary, 21:46914
neutron distribution in, neutron flux factorization for calculation of space and energy, 25:54269
neutron Doppler coefficient in, effects of isotopic composition of plutonium on, 21:21660
neutron Doppler coefficient in, effects of varying fuel element diameter on, 22:1878 (ANL-7307)
neutron Doppler coefficient of, semiempirical formulation of, 21:15707
neutron Doppler coefficients for, calculation of resonance-averaged multigroup cross sections for, 22:6008
neutron Doppler effect in, effect of cross section changes on, 21:7694 (IA-1082, pp 27-74)
neutron dosimetry procedure for, assessment of irradiation effects on materials by, (E/T), 22:30298 (BNWL-SA-1488)
neutron dosimetry techniques for, 25:44102
neutron effective delayed fraction calculations for, LAMB code for, 23:21550 (WCAP-7082)
neutron elastic removal and transport cross sections for evaluation of, methods for calculating, 21:11931 (RT/FIMA-(66)3)
neutron elastic removal cross sections for light and medium elements near sodium resonance in, effect of approximation methods on accuracy of, 23:2121
neutron elastic scattering of 300 MW(e) liquid sodium-cooled, KFK-NAP group set for, (T), 23:9131(T) (EURFNR-533)
neutron emission from fast fission of fuels in, integral method for determination of effective, (E/T), 24:50239 (NP-18366)
neutron energy spectra measurements in zero-power, use of time-of-flight and proton-recoil methods for, 22:6101
neutron energy spectrum in dilute uranium carbide-fueled, 21:30091(R) (ANL-7210)
neutron energy spectrum in, space-energy synthesis method for calculation of, (T), 24:11290
neutron fast fission in, calculation of heterogeneity correction for, 24:7353(R) (BNWL-1224)
neutron fast fission in, calculation of heterogeneity correction for, 24:7168(R) (BNWL-1240)
neutron fine structure in, method for measuring, 21:35585 (RT/FI-(67)11)
neutron fission cross sections in, SIGBAR code for average, 24:47934 (ANL-7610, pp 465-537)
neutron fission reactions in, integral method for measurement of effective neutron production from, 25:23338(T) (JPRS-52290, pp 103-8)
neutron fluence and flux measurements in, evaluation of foil activation techniques for, 22:48746
neutron fluence and spectra distributions in, use of nuclear reaction rates in stainless steel for determination of, 23:40337
neutron flux and importance spectra for, methods development for calculating, (T), 22:48426 (RPI-328-133, pp 60-100)
neutron flux and importance spectra in, slowing down theory model for analytic solution of, 25:60211 (RPI-328-189)
neutron flux and importance spectra of, analytic model for, (T), 25:5954
neutron flux and importance spectra of, model analysis for, (T), 24:31042 (RPI-328-189)
neutron flux and spectra in, pulsed assembly measurements on, 23:37138(R) (RPI-328-160)
neutron flux calculations for, analytic representation for, 22:32884
neutron flux calculations for, BISYN two-dimensional synthesis program for, 21:12140 (GEAP-4922)
neutron flux calculations for, comparison of multigroup diffusion analysis and one-dimensional static condition spectrum synthesis method for, (T), 23:13405 (AI-AEC-12721, pp 69-81)
neutron flux calculations for, iterative techniques for time-energy dependent, 23:33113
neutron flux distribution in breeder, comparison of modal and difference method for, (T), 25:25968
neutron flux distribution in breeder, solution of two dimensional few group diffusion equations for, 24:11172
neutron flux distribution in multiregion, use of analog computer for calculation of fast, 22:46956
neutron flux distribution in sodium-cooled breeder, analysis of static and dynamic, 21:17454 (KFK-448)
neutron flux distribution in, methods for determination of, (T), 25:51030(R) (NAA-SR-12492)
neutron flux distribution in, successive space—energy synthesis for, (T), 25:12780
neutron flux distributions in, re-entrant hole perturbation of, 22:22527 (RPI-328-112, pp 62-103)
neutron flux fine structure in one-dimensional cells of, (E/T), 25:39238
neutron flux fine structure in plate geometry cells of, (E), 25:39237
neutron flux fine structure variations in lattice cells of, (E), 24:33257

neutron flux flattening in 1000 MW(e) two-zoned, effects of fuel enrichment and composition on radial, (E/T), 22:35468 (PNR/SETR-R.-010)
neutron flux in, analysis and measurement of, 24:7075
neutron flux measurements in, threshold detectors for, 21:35567 (BNWL-SA-1102)
neutron flux measurements in, use of activation detectors for, 21:16147 (UJV-1712)
neutron flux of, comparison with heavy ion accelerator for vacancy production in stainless steel, 24:7074
neutron flux spectra analysis of, development of methods for region dependent, 23:1991(R) (AI-AEC-12680)
neutron flux spectra analysis of, development of methods for region dependent, 24:24784(R) (NAA-SR-12570)
neutron flux spectra for, development of methods for calculating, 23:13576 (RPI-328-142, pp 132-51)
neutron flux spectra for, slowing down in scattering resonance mixtures of, (T), 24:7080
neutron flux spectra for, synthesis using spatially discontinuous basis spectra, (T), 23:3913
neutron flux spectra in breeder, effects on fuel cycle parameters of, 24:7131
neutron flux spectra in, methods development for calculating, (T), 22:39551 (RPI-328-123, pp 39-52)
neutron flux spectra in, variational spectral synthesis methods for space-energy, 25:31656
neutron flux spectra measurements in, multiple foil activation iterative method for, (E/T), 23:19560
neutron flux spectra of, performance of fission foils for, 25:5973
neutron flux spectrum and adjoint flux in, successive approximation method for calculation of, 21:40598
neutron flux spectrum in ECEL Core 13 and 14, 24:14866(R) (BNWL-658)
neutron flux with resonances effects in, computer program for B_1 equations solutions for, 22:35663 (GA-7542(Vol.1))
neutron fluxes and currents in, ultrafine multigroup methods for calculating real and adjoint, 22:16265(R) (ANL-7403)
neutron fluxes for, effects of unresolved resonance parameters on adjoint, 22:33086 (ANL-7310, pp 431-511)
neutron fluxes for, numerical comparison of diffusion and transport programs for calculating, 23:31156 (BNWL-992)
neutron fluxes in 9:1 oxide core, multigroup and analytical calculation for greater than 0.1 keV, 23:31224 (RPI-328-148, pp 27-38)
neutron fluxes in breeder, technique for calculating ultrafine adjoint, 23:49651 (ANL-7410, pp 387-442)
neutron fraction measurements for, analysis of effective delayed, 24:33414
neutron generation time in, description of discrete time and discrete state Markov process for, (E/T), 22:35545
neutron importance measurements in test region of, containing polyethylene test cells, 21:21809
neutron importance spectrum for large oxide fueled, analytic representation of, 22:32884
neutron inelastic scattering in, integral studies of modifications to ENDF/B values for uranium-238, 24:7288
neutron kinetics calculations for ceramic, use of multigroup two-dimensional computer code for, 21:46854(R) (GEAP-5098)
neutron lifetime calculations for, LAMB code for prompt, 23:21550 (WCAP-7082)
neutron lifetime calculations in, prompt, 21:38556
neutron lifetime in, design parameters of Rossi—α time correlator for prompt, 24:16325
neutron moderation in, (T), 25:6165
neutron moderation in, asymptotic slowing down equations for inelastic, 24:47934 (ANL-7610, pp 465-537)
neutron moderation in, continuous slowing down theory for elastic, (T), 24:46018
neutron moderation in, continuous slowing down theory for anisotropic elastic, (T), 24:46115
neutron noise analysis in, use of on-line computer for, 21:38530
neutron physics for liquid sodium-cooled, analysis of, 22:39875 (BNL-50082, pp 1-18)
neutron physics of breeder-type, research on theoretical, 22:15141 (BNL-50057, pp 79-100)
neutron physics of, research progress on, 21:42524 (RPI-328-97, pp 35-95)
neutron physics parameters of, effects of fission neutron density and spectra on, 21:7927
neutron reaction rates and moderation in, method for calculating resolved resonance, 24:33270
neutron reaction rates in steam cooled SNEAK assembly, comparison of calculated and measured, 24:4146
neutron resonance absorption in, integral transport theory analysis of, 25:5959
neutron resonance capture and fission cross sections for, calculation of group-averaged, (T), 25:45882
neutron resonance cross sections of, improved treatment of unresolved resonances for calculating effective, 23:31221 (AI-AEC-Memo-12756)
neutron resonance interaction effects in, method for calculation of, 25:46327
neutron resonance parameters for, effects on Doppler coefficients of statistical selection of, 23:37700
neutron resonance reactions in, effects of heterogeneity in periodic lattice cell structures on, (T), 23:52447(T) (EURFNR-613)
neutron self-shielding factors for, heterogeneity effects on, (T), 24:22489
neutron slowdown theory for, derivation of elastic, (T), 25:44191 (ANL-7710, pp 365-463)
neutron slowing down in, calculational models for, (T), 25:18227 (EURFNR-864)
neutron slowing down in, calculations as Markov process, (T), 22:50520
neutron slowing down in, improvements in analytical methods for calculation of, (T), 24:16284 (RPI-328-164)
neutron slowing down processes in, stochastic formulation of multiple collision method for, 22:42533
neutron spectra across material interfaces in, variation of fast, (E), 25:41407
neutron spectra distribution in, analysis of energy and spatial, (T), 22:30155(R) (NAA-SR-12296)
neutron spectra for large carbide and oxide cores in, evaluation of adjoint, (T), 22:14296 (RPI-328-100, pp 140-87)
neutron spectra for, analytical representation of, (T), 24:33246
neutron spectra for, development of proton-recoil spectrometer for sodium, 23:13440 (AI-AEC-12721, pp 47-59)
neutron spectra for, effects of cross section errors on, 22:33086 (ANL-7310, pp 431-511)
neutron spectra for, improvements in analytical methods for calculation of, (T), 24:16285 (RPI-328-165)
neutron spectra for, method for calculating fundamental mode, 22:14166
neutron spectra for, modal method for calculation of, (T), 24:33486(R) (RLO-2058-1)
neutron spectra for, modal method for calculation of, (T), 24:33487 (RLO-2058-2)
neutron spectra for, one group cross section set for calculation of, (T), 25:41406
neutron spectra for, threshold detector method for reconstruction of, (T), 25:23403
neutron spectra in core mockups of, time-of-flight measurements of, (E/T), 24:33409 (GA-9946)
neutron spectra in sodium cooled, review of determination techniques and data on, (E/T), 24:47830
neutron spectra in soft spectrum, measurement of, 24:47818 (ANL-7610, pp 61-258)
neutron spectra in uranium-235 fueled, comparison of proton recoil counter and time-of-flight, (E), 24:47891 (ANL-7610, pp 369-464)
neutron spectra in zoned oxide fueled cores of, (E/T), 23:43147(R) (GA-9259)
neutron spectra in, analytic method for calculating, 22:22527 (RPI-328-112, pp 62-103)
neutron spectra in, analytical model for representing fast, 23:31224 (RPI-328-148, pp 27-38)
neutron spectra in, approximate formula for homogeneous mixture of fast elements for describing, 24:7300
neutron spectra in, approximate solution for asymptotic slowing down of fast, (T), 24:29082
neutron spectra in, calculations of energy and spatial distribution of, 21:40564(R) (NAA-SR-12395)
neutron spectra in, comparison of multigroup and analytic methods for calculating, 24:7301
neutron spectra in, description of computer programs for measurement of, 22:10077 (GA-7920)
neutron spectra in, determination by activation of foils, (E), 21:14080 (KFK-474)
neutron spectra in, determination from measurements on STSF assemblies, 23:21559(R) (GA-9140)
neutron spectra in, effects of anisotropic elastic scattering on, (T), 25:39340
neutron spectra in, effects of coolant and structural materials on, (E/T), 25:51030(R) (NAA-SR-12492)
neutron spectra in, formulation of adjoint, 21:40346 (RPI-328-87, pp 22-59)
neutron spectra in, multigroup synthesis methods for, (T), 25:5961
neutron spectra in, performance of threshold detectors for measurement of fast, (T), 24:41063 (TRG-Report-1911, pp 411-29)
neutron spectra in, resonance absorbers for measurement of, (E/T), 25:28656(T) (EURFNR-842)
neutron spectra in, scattering process technique analysis of, 23:4404 (KURRI-TR-35)
neutron spectra in, small sample surface-to-mass and homogeneity effects in fast, 22:53378
neutron spectra in, STSF measurements of, 25:48306(R) (GULF-RT-10655)
neutron spectra in, STSF measurements on, 23:52404(R) (GA-9669)
neutron spectra in, STSF measurements on, 24:50185(R) (GA-10280)
neutron spectra in, synthesis of 50 energy-group, 25:60215
neutron spectra in, use of threshold detector data for reconstruction of, (E/T), 24:50210
neutron spectra measurements in, computer program for analyzing proton-recoil proportional detector data for, 22:25631 (AWRE-O-9/68)
neutron spectra of, continuous slowing down models for, (T), 25:5955
neutron spectra of, improved treatment of unresolved resonances for calculating, 23:31221 (AI-AEC-Memo-12756)
neutron spectral calculations for, effects of iterating on elastic removal cross sections on, 22:6013
neutron spectral shift effects of transients in, spectral synthesis methods for, (T), 24:43852
neutron spectrum calculations for, description of GAFGAR program for, 23:37462(R) (GA-9386)
neutron spectrum formulation for, derivation of approximate form for, 22:42285
neutron spectrum in, effects of elastic and inelastic scattering on, 22:42285
neutron spectrum in, measurements during August to October 1969 of, (E/T), 24:13538(R) (GA-9817)
neutron spectrum measurements for, time-of-flight methods for fast, (E/T), 25:36991(R) (GULF-RT-10523)
neutron time-of-flight spectra in, evaluation of feasibility of two-dimensional analysis of, 23:37462(R) (GA-9386)
neutron transport equations for plate-type, use of bilinear weighting of cross sections for variational synthesis solution to, 24:7273
neutron transport equations for, numerical solution of time-dependent monoenergetic DP/sub L/, 23:37712
neutron transport theory equations for, use of overlapping group method for solution to, 23:37472
neutron wave propagation in, use of multigroup transport theory for analyzing, 23:49651 (ANL-7410, pp 387-442)
neutronic decoupling of pulsed, 21:38569
neutronics characteristics of pulsed, definition of figure-of-merit for optimizing and comparing, 24:7243
neutronics characteristics of, effects of fuel cladding, coolant, and geometry on, 24:16133
neutronics equations for, matrix formulation of, 22:16309 (CEA-R-3351)
neutronics of 1000-MW gas-cooled, (E/T), 21:7908
neutrons in, spatial distribution of importance of fission, (E/T), 21:7922
noise analyses for plutonium fueled, use of integrating sampler for, 22:32961 (ANL-7310, pp 377-430)
noise analysis for, probability distribution for p-method, (E/T), 22:35705
noise analysis for, use of polarity cross correlation technique for, 22:32961 (ANL-7310, pp 377-430)
noise analysis in, use of on-line digital computer for, 21:40694 (ANL-7349, pp 92-109)
noise analysis method for, use of on-line digital computer for polarity cross-correlation of scintillation detector outputs in, 23:28625
noise characteristics of, methods for detection and identification of, 23:52324(T) (JPRS-48331, pp 269-79)
noise in at-power, Langevin technique with feedback effects for analysis of, (T), 24:47952 (CONF-680980-, pp 211-25)
noise in at-power, on-line digital computer method for measurement of, (E/T), 24:47968 (CONF-680980-, pp 141-60)
noise measurements in, cross-spectral density technique for, 21:45345(R) (IDO-17234)
nuclear data requirements for design and operation of, 22:18101
nuclear heating analysis for, 21:40545 (CONF-660606-58)
operating aspects of power, analysis of load following, 25:53942 (A/CONF.49/P-479)
operating experience with liquid sodium cooled, review of, 25:60094 (CONF-710922-2)
operating experience with sodium cooled, summary of, 24:4070
operation aspects of 1000 MW(e) gas cooled breeder, 25:41367 (CONF-710315-15)
operation experience of U.S.S.R., summary of, 25:54136 (A/CONF.49/P-750)
operation in European nuclear power systems, effects on 1970 to 2010 uranium requirements of, 25:44127 (CONF-700903-17)
operation insuring uniform distribution of specific power, 21:25699(P)
operation of 1000 MW(e) steam-cooled, systems analysis for optimum, 22:5924 (EURFNR-405)
operation of breeder, description of, 22:18501
operation of gas core pinch-fission breeder, control and stability analysis of, (T), 25:34331
operation of liquid sodium-cooled, description of optimum, 22:18516
operation of plutonium fueled, effects of time on power level, (T), 22:5934 (RT/EC-(67)1)
operation of power breeder, analysis of optimum fuel cycle, 22:37504
operation of, effects of absorber rod configuration on heat fluctuations for continuous, (E), 22:10014(T) (ANL-Trans-542)
operation of, review of, 24:22386
operation potential of subcritical, as university research facility, 25:6095
operations aspects of power, 25:54133 (A/CONF.49/P-472)
operations experience with liquid sodium cooled BR-5, 23:11269(T) (AEC-tr-6976)
optimum operation of French 1000 MW(e) prototype, 22:18518
performance analysis methods for, survey of thermal and hydraulic, 22:42204 (RT/ING-(68)7)
performance characteristics of gas-cooled breeder, comparison with liquid sodium-cooled fast breeder reactor of, 23:15610
performance characteristics of high temperature gas cooled, 22:16198
performance data for conceptual 1000 MW(e) helium-cooled breeder, description of, 23:15608
performance evaluation of, accuracy of integral experiments for, 22:50830
performance of 1000 MW(e) helium-cooled, effect of artificially roughened fuel elements on, (T), 22:44863
performance of 1000 MW(e) steam-cooled, effect of core design parameter variations on, (T), 22:35554
performance of 1000 MW(e) thermal-coupled, effects of fuel management on, 21:25661
performance of breeder, effects of multiple enrichment radial core zoning on neutronic and economic, (T), 25:34386
performance of fuel elements in 1000 MW(e) gas-cooled, effects of partial surface roughening on optimum heat transfer, (T), 22:50728 (GA-8268)
performance of power, effect of plutonium recycling on long-time, (T), 22:35552
performance of, effects of core parameters on, 25:34385(T) (JPRS-53069, pp 156-65)
performance of, effects of plutonium-239 capture-to-fission ratio on, 22:32791
perturbation analysis of, CIAP and GLOBPERT codes for, 21:46864 (RT/FI-(67)16)
physics analyses of, effects of multigroup cross section refinement on, 22:33086 (ANL-7310, pp 431-511)

physics analysis by CIAP and GLOBPERT codes using improved perturbation theory, 21:35550 (ANL-7320, pp 304-15)
physics analysis during April to June 1970, 24:46122(R) (BNWL-1381-2)
physics analysis of breeder, FARED code development for static, 22:42159(R) (BAW-3867-3)
physics analysis of plutonium fueled, role of microscopic and integral nuclear data measurements in, 25:15347
physics analysis of, evaluation of nuclear data for, 22:27487(R) (LA-3880)
physics analysis of, fundamental methods for, 25:8091 (BNWL-SA-3093(Vol.1), pp VII.1-15)
physics analysis of, integral measurements of high-energy nuclear data for, (E/T), 25:15349
physics analysis of, refinements in multigroup cross section preparation for, 23:47298 (CNM-R-2(Vol.2), pp 612-50)
physics analysis of, use of MC^2 code for automated preparation of multigroup cross sections for, 21:35382 (ANL-7320, pp 27-30)
physics analysis of, use of Monte Carlo methods for, 23:1991(R) (AI-AEC-12680)
physics calculations for 2.17 MW Lithium-7 cooled, 24:16254 (N-69-40061)
physics calculations for 500 MW(e) breeder, effects of region dependent multigroup neutron cross sections on, 24:1975 (AI-AEC-12843)
physics calculations for 800 and 20000 liter core, comparison of 22 group neutron cross section data, 24:16313
physics calculations for breeder, development of computer codes for static, 22:48634(R) (BAW-3867-4)
physics calculations for breeder, one-dimensional multigroup diffusion AIMPDS-A computer program for, 23:49668
physics calculations for breeder, review of research programs for, 24:20621(T) (EURFNR-679)
physics calculations for conceptual gas fueled breeder power, 25:5971
physics calculations for gas cooled, review of methods and data for, 25:51083(R) (GA-10517)
physics calculations for large, procedure for, 22:9997 (EURFNR-416)
physics calculations for liquid sodium cooled breeder, comparison of methods for, (T), 25:51048 (TRG-Report-2133)
physics calculations for plutonia—urania, 21:23711(R) (BNWL-340)
physics calculations for sodium cooled uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled, 25:44194 (FEI-213)
physics calculations for sodium cooled, comparison of international, 25:44101 (TRG-Report-2133)
physics calculations for, committee on computer code coordination for, 25:57018 (CONF-710302-(Vol.1), pp 452-63)
physics calculations for, comparison of S/sub N/ and characteristics methods for, (T), 25:26064 (RT/FI-(70) 15)
physics calculations for, comparison of various cross section sets for, 23:49581 (ANL-7410, pp 73-227)
physics calculations for, comparisons of methods for neutron cross section generation for, 23:37462(R) (GA-9386)
physics calculations for, computer library for use with RIBD program for, 21:23712 (BNWL-CC-868)
physics calculations for, determination of effects of neutron cross section variations on, 22:50760
physics calculations for, development of mathematical models for, 21:30192
physics calculations for, development of RABBLE and VIM codes for, 25:54060(R) (AI-AEC-13005)
physics calculations for, development of VIM computer program for, 25:23250(R) (AI-AEC-12985)
physics calculations for, development of VIM computer program for, 25:44094(R) (AI-AEC-12991)
physics calculations for, development of VIM-1 code for, 25:8053(R) (AI-AEC-12978)
physics calculations for, effects of delayed neutron data errors on, (T), 25:10179
physics calculations for, energy modal synthesis method for, (T), 25:20709
physics calculations for, FCC-IV multipurpose code for, 21:44820 (BNWL-450)
physics calculations for, Flotran modular scheme for, 25:44098 (EACRP-A-135, pp 30-7)
physics calculations for, Monte Carlo computational technique for treatment of unresolved resonance region in, 23:37461(R) (AI-AEC-12815)
physics calculations for, multigroup cross section library for, 25:28657 (HEDL-TME-71-36)
physics calculations for, neutron cross section 26 group set for, 25:57115 (HEDL-TME-71-65)
physics calculations for, preparation of multigroup neutron cross sections for, 22:13900 (IA-1144)
physics calculations for, space—energy factorization method for, 25:57170 (CONF-710302-(Vol.2), pp 953-67)
physics calculations for, use of Monte Carlo methods for, 24:24784(R) (NAA-SR-12570)
physics calculations for, using uranium and plutonium trichloride fuels, 21:40589
physics calculations on, accuracy of nuclear constants measurements for, 23:52453(T) (JPRS-48331, pp 51-73)
physics calculations on, effect of nuclear data on accuracy of, 23:52452(T) (JPRS-48331, pp 2-50)
physics calculations on, review of Soviet computer programs for, 23:52459(T) (JPRS-48331, pp 171-6)
physics calculations on, review of Soviet numerical algorithms and computer programs for, 23:52454(T) (JPRS-48331, pp 82-105)
physics characteristics in Japan for steam cooled breeder, advantages and disadvantages of, 24:1980
physics characteristics of carbide fueled sodium cooled, transport and diffusion theory calculations of, 25:28812
physics characteristics of pulsed, 25:28760(T) (JPRS-52907)
physics characteristics of sodium cooled and steam cooled, (E/T), 24:29000
physics characteristics of uranium 235 and plutonium fueled, comparison of, 22:1803
physics characteristics of, conference on, 22:35472 (STI/PUB-165(Vol.2))
physics characteristics of, effects of plutonium-239 fission product yields on, (T), 25:20819 (JAERI-Memo-4165)
physics characteristics of, evaluation of nuclear data and methods for calculation of, 24:33264
physics characteristics of, group constants for analysis of, 24:52361 (JAERI-1195(Pt.1))
physics characteristics of, INQUANT code analysis of, 25:23348 (UJV-2419.R,F.)
physics characteristics of, neutron cross section evaluation for, (E/T), 22:30155(R) (NAA-SR-12296)
physics characteristics of, Rensselaer Polytechnic Institute studies on, (E/T), 25:9945(R) (RPI-328-190)
physics characteristics of, use of multigroup diffusion constants for analysis of, 25:23347 (UJV-2408-RF)
physics measurement program for, outline of U.S, 21:35562 (ANL-7320, pp 737-45)
physics measurements for, 25:1851(R) (EURFNR-822)
physics measurements for, 25:51031(R) (RCN-143)
physics measurements for, 24:46013 (BNL-50205, pp 1-15)
physics measurements for 100 MW(e) steam-cooled. use of SNEAK 3A-1 reactor for, 22:6091 (EURFNR-396)
physics measurements for 1000 MW(e) liquid sodium cooled breeder, analysis of optimum economic, 23:47177
physics measurements for breeder power, FARED computer program development for, 23:23875(R) (BAW-3867-6)
physics measurements for breeder, computer programs for calculation of, 22:50841(R) (LA-3993)
physics measurements for conceptual 1000 MW(e) breeder, performance of FARED calculation method for, 24:13590 (BAW-3867-9(Vol.4))
physics measurements for design of, 22:18515
physics measurements for large plutonium-fueled sodium-cooled, interpretation of, (E/T), 23:6030
physics measurements for liquid sodium cooled breeder, effects of core loading and configuration on, 25:31568(T) (EURFNR-823)
physics measurements for liquid sodium-cooled, perturbation method of error analysis for, (T), 22:35708
physics measurements for power, effects of neutron data errors on, (E/T), 22:35542
physics measurements for prototype, 22:18509
physics measurements for steam cooled, (E), 25:28659
physics measurements for steam-cooled breeder, effects of core shape and steam pressure and temperature on, 22:27401 (BNWL-713)
physics measurements for superheating, (E/T), 23:49547 (AEEW-R-560)
physics measurements for tungsten-based uranium fueled, using aluminum reflectors, 21:30090 (ANL-7007)
physics measurements for uranium-fueled steam-cooled power, use of SNEAK 3A assemblies for, 23:21464 (EURFNR-608)
physics measurements for, 2DB two-dimensional multigroup diffusion analysis computer program for, 22:50838 (BNWL-831)
physics measurements for, ABBN convention for calculation of neutron cross sections in, (E/T), 24:22389
physics measurements for, comparison of Theta 1, Theta 2, Theta 3, and trapezoidal integration calculations of, (T), 23:15708 (BNWL-940)
physics measurements for, economic and operational aspects of, 21:27751
physics measurements for, effects of neutron cross sections on, 24:16165
physics measurements for, errors in neutron cross sections for calculation of, (E/T), 24:22508
physics measurements for, review of Studsvik, program of, 23:43168
physics measurements for, use of computer programs for, 22:6028
physics measurements for, use of Monte Carlo method for, 24:13519(R) (AI-AEC-12884)
physics measurements in liquid metal-cooled rocket, effects of gaseous fission product venting on, 23:2089 (N-68-30516)
physics measurements in operating power-breeder, 21:30091(R) (ANL-7210)
physics measurements in zoned uranium carbide core for, 21:30091(R) (ANL-7210)
physics measurements in, experimental techniques for, 21:35696 (ANL-7320, pp 657-62)
physics measurements in, use of, 21:27768
physics measurements of breeder, computer programs for static, 23:40454(R) (BAW-3867-8)
physics measurements of power, calculation methods for, 24:14246 (CONF-681210-(Vol.2))
physics measurements of steam cooled plutonium and uranium fueled, use of SNEAK-3A and B for, (E/T), 24:22459
physics measurements of, analysis of one- and two-dimensional method for, 22:18508
physics measurements of, collision method and perturbation technique for, (T), 24:22505
physics measurements of, development of computer programs and nuclear data for calculation of, 24:22504
physics measurements on, review in Poland of methods for, 23:52323(T) (JPRS-48331, pp 258-68)
physics measurements on, use of BR-1, IBR, and BFS facilities for, 23:52411(T) (JPRS-48331, pp 199-257)
physics of, 25:23251 (BARC/I-58)
physics of breeder, 25:1861
physics of multizone, application of space-energy synthesis to interpretation of, 21:35554 (ANL-7320, pp 439-46)
physics of steam cooled, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
physics of, compilation critical experiment data on, 25:51041 (BNL-15746(Vol.1))
physics of, compilation of critical experiment data on, 25:51042 (BNL-15746(Vol.2))
physics of, data acquisition and analysis for, 24:33268
physics of, development activities for July to Sept. 1967, 22:27480(R) (BNWL-634)
physics of, effect of Doppler coefficient on, 21:2878
physics of, effects of delayed fission neutron data on, 24:31044
physics of, effects of fission products on core, 24:24785(R) (RCN-114)
physics of, FARED code for analysis of, 24:11167 (BAW-3867-9(Vol.3))
physics of, FARED code for analysis of, 24:11166 (BAW-3867-9(Vol.2))
physics of, FARED code for analysis of, 24:11165 (BAW-3867-9(Vol.1))
physics of, program for analysis of, 25:12768(R) (EURFNR-855)
physics of, summary of research progress on, 23:17269 (WASH-1125)
physics of, use of neutron transport measurements in bare metal spherical systems for analysis of, 24:33258
physics parameter calculations for RB-3 thermal-, 22:50871
physics parameter calculations for, evaluation of neutron cross section systems for, 22:53379
physics parameters for, 23:19466
physics parameters for 1000 MW(e) liquid sodium-cooled, analysis of, (T), 22:18601
physics parameters for 2700 liter uranium carbide (UC) core, comparison of ZPR-6 Assembly 5 measurements and ENDF/B data for, 24:47818 (ANL-7610, pp 61-258)
physics parameters for breeder, description of one-dimensional criticality and depletion computer code for calculating, 22:18356(R) (BAW-3867-2)
physics parameters for breeder, description of optimum, 22:35505
physics parameters for closed-cycle gas-cooled power, calculation of optimum economic, 23:17204
physics parameters for cylinder shaped split core, group-space-dependent buckling simulation of two dimensional, (T), 24:47818 (ANL-7610, pp 61-258)
physics parameters for design of, (T), 22:18510
physics parameters for dilute uranium-233-plutonium and thorium-uranium-233, 22:50832
physics parameters for plutonium oxide fueled breeder, 22:32734 (ANL-7310, pp 137-248)
physics parameters for power, effects of neutron data uncertainties on, (T), 23:5779
physics parameters for steam-cooled breeder, effects of steam pressure and core configuration on optimum, 22:53265 (BNWL-SA-2063)
physics parameters for uranium-235 oxide fueled converter, 22:32734 (ANL-7310, pp 137-248)
physics parameters for, adjoint Monte Carlo sampling schemes for calculation of, 23:13404 (AI-AEC-12721, pp 61-7)
physics parameters for, analysis of single-core-zone, 21:42725(R) (ANL-7357)
physics parameters for, analysis of, (E/T), 22:18513
physics parameters for, asymptotic diffusion theory method for analysis of, 22:33108
physics parameters for, calculations using group-diffusion code for, 21:23601 (IA-1113)
physics parameters for, dynamic analysis of, 21:27713
physics parameters for, effects of neutron cross section calculations on, (E/T), 24:47818 (ANL-7610, pp 61-258)
physics parameters for, evaluation of, 21:38457(R) (GEAP-5491)
physics parameters for, EXPANDA 2 computer program for calculation of, 21:21639 (JAERI-1118)
physics parameters for, numerical comparison of computer codes for calculating, 23:37473
physics parameters for, use of zone-loaded critical experiments for measurement of, 21:32019
physics parameters for, VIM computer program for optimum, 23:23874 (AI-AEC-12744, pp 27-9)
physics parameters in liquid metal-cooled, economic effects of uncertainties in, 22:22740
physics parameters of 1000 MW(e) liquid sodium cooled, nonlinear programming methods for optimum, (T), 25:15351
physics parameters of 1000 MW(e) uranium oxide (UO_2) fueled liquid sodium cooled, effects of burnup on, 24:43724
physics parameters of dilute plutonium fueled, (E), 25:28752 (ANL-7759)
physics parameters of sodium cooled converter, (T), 25:51044 (JAERI-13590)
physics parameters of steam cooled, mockup measurements on, (E/T), 25:10258 (EURFNR-848)
physics parameters of, (E/T), 25:28632(T) (EURFNR-824)
physics parameters of, (E/T), 25:60010(T) (EURFNR-902)
physics parameters of, comparison of calculational methods for, (E/T), 25:15387 (EURFNR-858)
physics parameters of, comparison of calculations and integral measurements of, 25:60036 (EURFNR-945)
physics parameters of, development of methods for calculation of, 25:39227 (NP-18809, pp 1.1-33)
physics parameters of, effects of accuracy of calculated constants on, (T), 25:23255(T) (JPRS-52290, pp 1-24)
physics parameters of, effects of fuel composition and type on, 23:24855 (JAERI-1172)
physics parameters of, evaluation of neutron cross section sets for analysis of, 25:60210 (JAERI-Memo-4406)

physics parameters of, FORE-II thermal hydraulics-point kinetics computer code for calculation of, 21:44835 (GEAP-5273)
physics parameters of, intercomparison calculations of, 24:13536 (BARC-415)
physics parameters of, monographs on, 25:23254(T) (JPRS-52290)
physics parameters of, techniques for measurement of, 24:50191
physics program for FR-0, experimental and theoretical, 21:35673 (ANL-7320, pp 159-84)
physics research at Rensselaer Polytechnic Institute, 23:13183 (RPI-328-142, pp 68-116)
physics studies for power, review of programs for, (E/T), 24:22394
physics studies from April to June 1969 on, summary of, 23:47233(R) (BNWL-1150)
physics studies on, summary of January to March 1969, 23:33080(R) (BNWL-1053)
physics studies on, summary of January to March 1970, 24:31041(R) (BNWL-1381-1)
physics studies on, summary of July to September 1969, 24:7168(R) (BNWL-1240)
physics studies on, summary of Oct. to Dec. 1968, 23:17246(R) (BNWL-985)
physics studies on, summary of October to December 1969, 24:18697(R) (BNWL-1304)
piping flexibility in liquid metal-cooled breeder power, design and analysis of, 22:39812
piping systems with large temperature differentials for sodium cooled, problems of design of, 22:16197
plutonium production by breeder power, effects on fuel economics of predicted, 23:23921
plutonium-239 effective cross section in, effect of interaction between plutonium-239 and uranium-238 resonances on, 21:7694 (IA-1082, pp 27-74)
plutonium-239 neutron capture-to-fission ratios in, methods for measuring, 21:21536
power conversion system for 1000 MW(e) helium cooled breeder, design parameters for closed cycle gas turbine, 25:60137 (KFK-1409)
power conversion system for 50 MW(e) steam-cooled, description of Loeffler cycle, 23:11263 (CONF-680419-, pp 303-25)
power conversion system for liquid metal-cooled power, description of multiple-loop superheat, 23:11267(P)
power conversion system for liquid sodium cooled breeder power, analysis of chemical compatibility and power cycles for carbon dioxide gas turbine, 23:47228 (ANL-7520(Pt.2), pp 147-53)
power conversion system for liquid sodium cooled power, description of metal vapor operating magnetohydrodynamic, 23:40381(P)
power conversion systems for liquid lithium-cooled space-flight power, development of alkali metal Rankine, 23:6033
power conversion systems for liquid metal and gas cooled power, comparison of design requirements for, 24:47854
power cost reduction in, by use of uranium-233 production in thorium blankets, 23:2038
power cycles for, thermodynamic analysis of optimum, (T), 25:20596
power cycles of breeder, analysis of optimum initial steam conditions for, 22:46949
power distribution in ceramic, determination of, 21:46854(R) (GEAP-5098)
power excursions in breeder, analysis of coupled hydrodynamic—neutronic, (T), 24:47877 (ANL-7610, pp 259-367)
power excursions in sodium cooled, use of MELT-II code for analysis of, 25:8097 (BNWL-SA-3093(Vol.2), pp XV.1-68)
power excursions in, effects of molten fuel movement and fission gases on oxide fuel pin failures from, (E), 24:22426 (GEAP-13543)
power excursions in, VENUS code for calculation of energy release by, 25:28728 (ANL-7701)
power generation from, cost characteristics of, 23:28385
power monitors for, development of all-solid in-core rhodium, 22:14128 (ANL-7380, pp 140-5)
power production from, experimental program for, 22:10010(R) (NP-17126)
power production from, prediction of, 22:1802
power production in France by, effects of plutonium cost on, 21:42748
power production of, prediction of future, 22:12040
power shift in sodium cooled breeder, effects of long-term operation on, (T), 25:60044
power supplies for, integration of auxiliary and emergency, (T), 22:35484
power transients in liquid sodium-cooled, model simulation analysis of bulk boiling, 22:39811
power transients in, effects of plutonium oxide (PuO$_2$) particle size on, 25:57107
power transmission systems for, development of underground, 25:60109
pressure sensors for, description of miniaturized, 22:14127 (ANL-7380, pp 63-4)
pressure vessel for liquid sodium cooled, design parameters of inner and outer face dip seal plug for, 24:47852(P)
pressure vessel of liquid sodium cooled, damage assessment method for effects of accidents on, 25:6064
pressure vessel of liquid sodium cooled, model study for shock wave effects on, 24:29005
pressure vessel plug for liquid metal cooled, design parameters of penetration access, 24:28990(P)
pressure vessels for, radiation testing programs in Sweden for steel, 24:40894 (TRG-Report-1911, pp 36-43)
pressure vessels for, stress analysis of prestressed concrete, 25:31553 (EUR-4531, pp 797-812)
properties of highly enriched fuels in, evaluation of integral, 21:40598
protection systems for, basic requirements of, 25:8077 (BNWL-SA-3093(Vol.2), pp XIII.1-29)
pumps for liquid metal cooled breeder, development in France of liquid sodium, 24:52892
pumps for liquid metal cooled, development in Japan of mechanical liquid sodium, 24:52894
pumps for liquid metal cooled, development in Netherlands of liquid sodium, 24:52893
pumps for liquid metal cooled, development in U.K. of electromagnetic and mechanical liquid metal, 24:52756
pumps for liquid metal cooled, development in U.S.S.R. of liquid metal, 24:52891
pumps for liquid sodium cooled, development of electromagnetic, 25:23279
pumps for liquid sodium-cooled, development of optimum 50,000 to 100,000 gpm, 22:46962
pumps for sodium cooled, review of development of coolant, 24:4055
radiation detectors for breeder power, design parameters of in-core activation, 25:6044
radiation detectors for use in LMFBR, design of self-powered, 22:12570 (ANL-7380, pp 139)
radiation effects in fuel element cladding of breeder, 22:32776 (KFK-700(Pt. X))
radiation streaming in liquid sodium cooled, design requirements for γ and neutron, 25:5976
radiation testing facilities in, design and operation of, 24:40892 (TRG-Report-1911)
radiation testing in, criteria for fuel element, 22:32777 (KFK-700(Pt. XI))
radiation testing in, criteria for fuel element, 22:53273(T) (EURFNR-472)
reactivity accidents in, computational methods for analysis of, 25:8095 (BNWL-SA-3093(Vol.2), pp XI.1-33)
reactivity analyses for, polarity spectral method for evaluating errors in, 24:7287
reactivity and thermal shock in super-prompt-critical pulsed, (T), 22:15141 (BNL-50057, pp 79-100)
reactivity calculations for, comparison of two and three dimensional models for, (T), 25:18181 (WHAN-SA-11)
reactivity calibrations in pulsed, method for pre-pulse, 25:51179
reactivity change in, from Doppler effect due to melting of uranium oxide (UO$_2$) fuel, (T), 22:27402 (BNWL-717)
reactivity changes in WARS and SAWA, 21:27712
reactivity coefficient of, analysis of theoretical Doppler, 21:19344 (ANL-7269)
reactivity coefficients for plutonium-fueled, analysis of sodium and Doppler, 22:53387
reactivity coefficients for power, synthesis method for determining, 22:32800
reactivity coefficients for, determination of feedback, 22:32735 (ANL-7310, pp 249-375)
reactivity coefficients in carbide fueled, calculations of sodium-void, 21:30091(R) (ANL-7210)
reactivity coefficients in power, (T), 24:38496
reactivity coefficients in, analysis of principal, 25:8055 (BNWL-SA-3093(Vol.1), pp VIII.1-15)
reactivity coefficients in, perturbation technique for calculation of sodium-void, 21:31898(R) (ANL-7329)
reactivity coefficients of steam-cooled breeder, effect of design parameters on, (T), 22:35556
reactivity component of sodium voiding in, effects of thin slab heterogeneities on non-leakage, 21:30091(R) (ANL-7210)
reactivity control of liquid metal-cooled, effects of 1 percent lithium in primary coolant on, 23:2017(P)
reactivity effect calculations for, effects of neutron cross section refinement on, 22:33086 (ANL-7310, pp 431-511)
reactivity excursions in breeder, comparison of computer programs for modified Bethe—Tait analysis of, 24:16305 (BNL-50117, pp 55-76)
reactivity excursions in, use of quasi static model for analysis of, 22:53347
reactivity in liquid metal cooled, effects of sodium coolant boiling on, 21:35612
reactivity in steam cooled breeder, effect of steam density at 3600, 2500, and 1200 psi on, 23:31158 (ORNL-TM-2582)
reactivity in, analysis using diffusion and transport equations of, 22:18569
reactivity in, effects of sodium voids on, (E/T), 24:47853(R) (APDA-262)
reactivity in, fuel burnup effects on, (T), 22:20966
reactivity in, perturbation methods for calculating optimum beryllium distribution for control of Doppler, (T), 23:49666
reactivity insertions in modular breeder, response to ramp, 21:40611
reactivity insertions with feedback in, calculational method for analyzing effects of large step, 22:53388
reactivity measurement in, development of analog ionization chamber for, 25:26014 (ANL-7700)
reactivity measurements in, on-line reactivity meter for shutdown, 21:38527
reactivity meters for, design and use of analog, 22:7820 (TRG-Report-1526)
reactivity multiplication factor and void effect for liquid sodium cooled breeder, effects of calculational methods on errors for, 25:8056 (KFK-1180)
reactivity of breeder, analysis of Doppler effect on, 22:18514
reactivity of ceramic-fuel breeder, effects of core composition and configuration on, 22:1775 (RT/FI-(67)23)
reactivity of coupled breeder, lifetime characteristics, 21:35613
reactivity of large carbide cores of, sodium void effects on, (T), 21:35681 (ANL-7320, pp 369-73)
reactivity of oxide-fueled, effects of fuel disintegration on, 21:12178
reactivity of oxide-fueled, effects of fuel disintegration on, 21:12178
reactivity of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled, (E/T), 25:18173 (EURFNR-861)
reactivity of pulsed, TIMOC computer program for calculation of reflector worth, 23:47241 (CNM-R-2(Vol.1), pp 488-508)
reactivity of zoned-core, analysis of sodium void effects on, 21:35722 (NP-16853)
reactivity of, EDEN computer program for effects of heterogeneity on, 23:33041 (RT/FI-(69)1)
reactivity of, effects of configuration on safety analysis of, (E/T), 22:53292
reactivity of, effects of fuel burnup on, (T), 21:21734
reactivity of, effects of temperature and power on, 23:52330(T) (JPRS-48331, pp 301-42)
reactivity of, measurement using pulsed source technique, 22:35207
reactivity of, second order perturbation method for error estimation in measurement of, 22:37558 (IA-1156)
reactivity period analysis of, using TERM-1 code, 21:17455 (KFK-462)
reactivity perturbations in, Monte Carlo analysis of, (E/T), 24:24918
reactivity pulsing device for, design of, 21:44904(P)
reactivity stability in large liquid sodium-cooled plutonium-fueled power, sodium void and Doppler effects on, 23:19477 (IA-1177)
reactivity temperature coefficient for, multigroup formalism for Doppler activation analysis of, (T), 23:24013
reactivity transients in breeder, effects of time-dependent feedback on superprompt critical, 24:2006 (KFK-961)
reactivity transients in DFR-type, calculation methods for, (T), 22:46954
reactivity transients in, effects of Doppler pulse on, (T), 24:7073
reactivity variation from reflector block movement in pulsed, Monte Carlo method for geometry coefficient of, (T), 24:43851
reactivity variations in 1000 MW(e) breeder, effects of fuel element bending on, (T), 23:9229(T) (EURFNR-540)
reactivity variations in superheating, use of SNEAK-3A for effects of hydrogen concentration on, (E/T), 23:13542(T) (EURFNR-550)
reactivity variations in, Doppler measurements on, 22:30155(R) (NAA-SR-12296)
reactivity variations in, sodium void coefficients for, 21:26876(R) (LA-3686)
reactivity variations with coolant density in steam-cooled, (T), 22:35557
reactivity void coefficient in, core loading method for reduction of positive, 25:34326(P)
reactivity worths for, effects of resonance self-shielding on calculation of, (T), 24:47818 (ANL-7610, pp 61-258)
reflector for, design of in-core, 21:19503(P)
reflectors for liquid metal-cooled, description of overhead, 22:10052(P)
reflectors for, calculation of effects of carbon, beryllium oxide (BeO), and aluminum oxide (Al$_2$O$_3$),, 22:47021
reflectors for, effects of cross-section averaging spectra on worth of nickel, (E/T), 24:33256
reflectors for, reactivity worth of beryllium oxide and molybdenum, (T), 23:45113 (N-69-29593)
refueling of sodium cooled, open-reactor hot-cell concept for, 25:48273 (CONF-710315-21)
relationship to gas-cooled reactors, 22:1812
remote handling devices for liquid metal cooled, development of, 24:43744
remote handling equipment for liquid sodium cooled, design parameters and operation requirements of fuel storage, 24:52932
remote handling equipment for liquid sodium cooled, description of thermocouple, 24:50136(P)
research and development at Rensselaer Polytechnic Institute, quarterly progress on, 23:31223(R) (RPI-328-148)
research on, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
research program on breeder, at Karlsruhe, 21:12210
research program scheduling using TERM-1 program, 21:30135 (EURFNR-215-F)
resonance absorption in, description of RABBLE and RABZPR codes for calculating, 22:33086 (ANL-7310, pp 431-511)
response during liquid sodium boiling accidents in, physical models and equations for calculating, 22:53383
response during sodium boiling accidents in, theoretical analysis of, 22:5971
response to neutron source, equations for determining, 22:16309 (CEA-R-3351)
safeguards problems of plutonium produced in, world-wide, 21:40574 (RM-5148-PR)
safety analyses and experiments for, review, 21:25686
safety analysis for, 24:47877 (ANL-7610, pp 259-367)
safety analysis for gas-cooled, using coated particle fuel, 22:42215
safety analysis for large breeder, relationship of double containment and aerosol behavior to, 22:7805 (EURFNR-425)
safety analysis for possible fires in sodium-cooled plutonium-fueled, 21:44882
safety analysis in U.K. for liquid sodium cooled, 24:31088
safety analysis methods for, survey on, 22:42204 (RT/ING-(68)7)
safety analysis of German 1000 MW(e) steam-cooled breeder, 21:44847 (KFK-613)
safety analysis of liquid sodium cooled breeder, requirements of, 25:48287 (IRS-T-18(1969), pp 191-4)
safety analysis of, calculational methods for, 21:30154 (LA-3683)
safety analysis of, dynamics simulator development for, 23:1991(R) (AI-AEC-12680)
safety analysis of, review of computer programs for, 24:22439
safety aspects of breeder, 25:60136

safety aspects of liquid sodium cooled, 25:60113 (CONF-710922-3)
safety aspects of liquid sodium cooled breeder, effects of carbide fueled core on, 24:7157
safety aspects of, notes for lectures on, 23:2058 (NP-17649(Vol.2))
safety aspects of, review of research and development programs on, 25:8045
safety aspects of, survey of, 25:8110
safety assessment of, use of method of numerical evaluation of risk for, 22:53357
safety assessment of, use of probabilistic techniques for, 22:53358
safety characteristics of 1000 MW(e) sodium-cooled, 22:20851
safety conference on, Aix-en-Provence, France, Sept. 19 to 22, 1967, 22:53380
safety considerations for breeder, 24:18693
safety estimate of, method for, 22:30193
safety evaluation for liquid metal cooled, equation of state for, (T), 25:8109
safety evaluation for sodium cooled, boiling and two-phase flow in, 21:7885(R) (NAA-SR-12175)
safety evaluation for, neutron spectra for, 21:7885(R) (NAA-SR-12175)
safety experiments in TREAT, advanced heat-transfer analysis model for, 22:16265(R) (ANL-7403)
safety features of 1000 MW(e) steam cooled, description of, 25:28634 (NP-18782)
safety features of, analysis of, 23:9187
safety in, contamination and fission product control for, 21:7885(R) (NAA-SR-12175)
safety of 1000 MW(e) steam cooled, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
safety of conceptual PCC, effects of ramp reactivity excursions on, (T), 25:23314 (RT/ING-(70)3)
safety of French 1000 MW(e), 22:18518
safety of German 1000 MWe steam cooled breeder, analysis of, 22:53365
safety of helium cooled breeder, development of criteria for, 24:50153 (CONF-700401-, pp 879-89)
safety of high temperature gas cooled breeder, discussion on, 23:28368
safety of liquid sodium cooled, lecture series on, 25:8085 (BNWL-SA-3093(Vol.1))
safety of liquid sodium cooled, regulatory requirements and procedures for, 25:8086 (BNWL-SA-3093(Vol.1), pp I.1-22)
safety of sodium cooled, effects of coolant boiling on, (E), 23:28512 (EURFNR-626)
safety of sodium cooled, health physics aspects of, 25:51153
safety of sodium cooled, review of design measures for, 23:43140
safety of sodium cooled, review of problems in, 25:20764 (NP-18487)
safety of space power, effects of control drum and cooling system malfunctions on, (T), 25:46309 (N-71-12568)
safety of steam-cooled, effects of integrated cooling cycle on, 22:20846
safety of, conference at Aix-en-Provence, France, Sept. 19 to 22, 1967 on, 22:25172
safety of, discussion of papers at conference on, 22:22746
safety of, effects of Doppler coefficient temperature dependence and sodium-voiding on, 21:38730
safety of, effects of negative Doppler coefficient on, (T), 25:10176
safety of, effects of radiation protection standards on, 25:8089 (BNWL-SA-3093(Vol.1), pp IV.1-29)
safety of, lecture series on, 25:8093 (BNWL-SA-3093(Vol.2))
safety of, research progress summaries to Nov. 1969, 24:16225
safety of, review of technical problems in, 25:8087 (BNWL-SA-3093(Vol.1), pp II.1-26)
safety of, state-of-the-art review of, 23:37597
safety of, summary of April 1969 research and development on, 23:15664
safety of, survey of development programs for, 25:8102 (BNWL-SA-3093(Vol.2), pp XX.1-66)
safety of, UCLA curriculum on, 25:6063
safety program for sodium cooled breeder, U. S, 22:53356
safety program for, summary of UKAEA, 22:42210 (TID-24564)
safety programs for, outline of, 22:44855
safety programs for, review of, 25:26008
safety programs in U.S. for, review of, 24:31089
safety requirements for steam, 22:53364
safety requirements for, use of probability methods for analysis of, 22:35543
safety research and development for, summary of, 21:40629
safety research and development projects for, summary of, 22:53395
safety research for, 21:40531 (ANL-7290, pp 188-215)
safety studies for, 21:25935(R) (ANL-7225)
safety studies for liquid sodium-cooled, analysis of high temperature physical properties, coolant energy transfer, reaction with air, and fuel migration, (E), 22:37402 (ANL-7450, pp 75-89)
safety studies for, summary of, 22:20861
safety studies on French, outline of, 22:14176
safety studies on sodium-cooled, 21:36073(R) (ANL-7350)
safety studies on, (E/T), 25:28632(T) (EURFNR-824)
safety studies on, (E/T), 25:60010(T) (EURFNR-902)
safety surveillance count channels for, statistical performance of, 24:47891 (ANL-7610, pp 369-464)
safety tests on, design of facility for, 23:45484 (ANL-7520(Pt.1), pp 374-83)
shielding analysis for the proposed Los Alamos Molten Plutonium Burnup Experiment, 21:44942 (LA-DC-8538)
shielding calculations for, COMPRASH and ATTOW computer programs for neutron, 23:13461 (AERE-R-5773(Vol.2), pp 515-53)
shielding calculations for, effects of material heterogeneity on neutron, (E/T), 23:13496 (AERE-R-5773(Vol.2), pp 554-70)
shielding calculations for, including effects of anisotropic neutron elastic scattering, (T), 22:50510
shielding construction for sodium-cooled, 22:27435
shielding construction principles for, 22:27434
shielding for liquid metal cooled breeder, design requirements of, 25:1876
shielding for, effects of iron contents on performance of concrete, (E), 25:57027 (RCN-147)
shielding for, neutron attenuation properties of sodium as, (E/T), 23:13460 (AERE-R-5773(Vol.2), pp 483-514)
shielding for, preparation of improved concrete, 22:52250(P)
shielding in Japan of experimental, description of, 23:15626
shielding of breeder, relationship of core characteristics to problems in, (T), 23:23887
shielding of liquid lithium-cooled space-power, design parameters for, 22:39860 (N-68-18197)
shielding of liquid metal cooled, development program for, 24:26804 (BNWL-1333)
shielding of, basic criteria for, 25:8062 (BNWL-SA-3093(Vol.1), pp V.1-33)
shielding of, July 1971 research progress on, 25:51060(R) (ORNL-TM-3538)
shielding of, properties of materials for, 23:52333(T) (JPRS-48331, pp 343-71)
shielding studies for, neutron attenuation and propagation, 22:18510
shields for, heat deposition in, 21:26876(R) (LA-3686)
shutdown cooling of liquid sodium cooled, transient processes in emergency, 23:52364(T) (JPRS-48330, pp 325-54)
shutdown margins for, two frequency reactor noise method for worth measurements for, (T), 25:60043
shutdown of liquid sodium cooled, effectiveness of lithium-6 coolant additive for emergency, 24:20547 (KFK-1048)
shutdown of liquid sodium cooled, effects of neutron absorbing coolant additives on emergency, 24:38561(T) (EURFNR-728)
shutdown of lunar-based lithium cooled, afterheat removal following, (T), 24:52888 (N-70-31885)
shutdown system for liquid sodium cooled, effectiveness of coolant carried lithium-6 for, 24:52934
shutdown system for pulsed, requirements for hydraulic, 24:50197
simulation of steam-cooled breeder, use of analog computer for, (T), 22:32770 (KFK-657)
sites of European, trip report on visits to, 22:12009 (BNWL-602)
siting of, safety criteria for, 25:8090 (BNWL-SA-3093(Vol.1), pp VI.1-32)
sodium boiling accidents for large power, physical models and equations for analysis of liquid, 22:53383
sodium boiling accidents in, theoretical analysis of response during, 22:32735 (ANL-7310, pp 249-375)
sodium boiling in, comparison of experimental and calculated data on liquid, 22:53392
sodium boiling in, hydrodynamic simulation of liquid, 22:53373
sodium boiling in, safety analysis of liquid, 22:53392
sodium boiling transients in carbide fueled, calculated temperature and mass flow rate profiles for, 23:49572 (ANL-7410, pp 229-337)
sodium boiling transients in carbide fueled, calculated feedback reactivities and void coefficients for, 23:49572 (ANL-7410, pp 229-337)
sodium coolant boiling in, analysis of coolant expulsion and pressure transients resulting from liquid, 22:53374
sodium coolant for, analysis of incipient and pool boiling processes in, 24:20579 (NP-18150)
sodium coolant for, thermodynamic and neutronic effects of boiling of, 24:20579 (NP-18150)
sodium coolant removal from, effects on flux and asymptotic power shape of, 22:33086 (ANL-7310, pp 431-511)
sodium coolant superheat and flashing in, safety analysis of, 21:46871(T) (EURFNR-353)
sodium coolants for, analysis of thermal and hydraulic behavior of liquid, 22:53381
sodium expulsion due to boiling in, hydrodynamic calculations for, 22:1793
sodium fires in sodium cooled, fission product behavior in atmosphere surrounding, 22:53351
sodium fires in, studies on energy release and transport during, 22:53352
sodium void coefficients for conceptual sodium cooled breeder, use of critical assembly measurements for analyzing, 23:37468
sodium void effects in single-zone breeder, flux synthesis method for calculating, 22:32734 (ANL-7310, pp 137-248)
sodium void effects in, comparison of theoretical and experimental analyses of, 23:49572 (ANL-7410, pp 229-337)
sodium void reactivity calculations for, effects of zone enrichment on, 22:32734 (ANL-7310, pp 137-248)
sodium void reactivity effects in, accuracy of standard sets of multigroup constants for, (T), 22:35517
sodium voiding in converter, effects on reactivity of, 22:32734 (ANL-7310, pp 137-248)
spectra measurements in, use of foil-activation technique for, 21:35567 (BNWL-SA-1102)
stability bounds in, effects of two reactivity feedbacks on, (T), 25:51241
stability calculations for steam-cooled breeder, 23:21549(T) (EURFNR-583)
stability of 1000 MW(e) steam cooled, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
stability of 1000 MW(e) steam-cooled power, effects of design parameters and control systems on, (T), 22:37399 (AE-321)
stability of gas cooled, effects of data uncertainties on, 24:7091
stability of operating, effects of nuclear weapon shock waves on, 25:42506(R) (ORNL-4566(Pt.1))
stability of pulsed, effects of Doppler coefficient on, (T), 23:34902
stability of sodium cooled, optimum control parameters for, (T), 25:51053 (JAERI-13537)
stability of steam cooled breeder, calculation of inherent, 25:3856 (KFK-851)
stability of steam cooled breeder, calculation of inherent, 25:31542(T) (EURFNR-813)
stability of steam-cooled breeder, effects of coolant feedback during accidents on, 22:3829 (EURFNR-406)
stability of steam-cooled, effect of cooling cycle parameters on, (T), 22:35555
stability of steam-cooled, effect of integrated cooling cycle on, (T), 22:20846
stability of steam-cooled, effects of cooling cycle design on, 22:7803 (EURFNR-421)
stability of thermionic, effects of nonlinear feedbacks on, 22:33078
stability of thermionic, use of prompt-jump approximation with two-region lumped parameter system for analysis of linear, 22:33078
stability of, calculation of, (T), 24:18772
stability of, effects of delayed neutron spectra uncertainties on, 23:4439
stability of, safety analysis of effects of reactivity feedback on, 22:32735 (ANL-7310, pp 249-375)
stability parameters for steam-cooled breeder, measurement of, 22:5921 (EURFNR-398)
stability with in-core thermionic converters, (T), 24:50088(R) (TID-25528)
startup of sodium-cooled, effects of core coolant flow variations on, 21:45297 (UJV-1815)
startup of sodium-cooled, effects of core coolant flow variations on, 22:45236(T) (BNL-tr-220)
startup of, in-core thermionic converter performance during, (T), 24:50088(R) (TID-25528)
steam cycle for gas-cooled breeder power, design parameters and flow diagrams for conceptual straight, 23:21507
steam cycles for 300 MW(e) and 1000 MW(e) liquid sodium cooled breeder, analysis of optimum economic, 25:28750
steam cycles for liquid sodium cooled, analysis of optimum economic straight and reheat, 24:52955
steam cycles in sodium-cooled, economics of, 21:17494
steam generating systems for very large, conceptual design for sodium-heated, 21:35592 (WCAP-2872)
steam generator for breeder, design of 527 MW(t) sodium-heated, 22:35465 (KFK-654)
steam generator for liquid sodium-cooled, thermal shock and corrosion analysis for austenite tubes, 22:39794
steam generators for liquid sodium-cooled, effects of sodium fires caused by leaks in, 22:53355
steam generators for sodium cooled, review of development of, 25:23324
steam generators for, modular design for, 24:7164
strain gages for, testing of high-temperature electric resistance, 22:12673 (ANL-7380, pp 79-90)
structural materials for, effect of high temperature sodium on mechanical properties of, 21:43089(R) (MSAR-67-149)
structural materials for, fast neutron effects on swelling of stainless steel, (T), 25:37982 (HEDL-SA-159)
structural materials for, helium degradation effects on, 23:1991(R) (AI-AEC-12680)
structural materials for, irradiation capsule for in-pile creep measurements on, 25:44086(T) (EURFNR-853)
structural materials for, properties of stainless steel, 23:50986(T) (JPRS-48331, pp 512-52)
structural materials for, radiation effects on austenitic steel, 23:51077(T) (JPRS-48331, pp 495-511)
structural materials for, radiation effects on stainless steel, 23:51078(T) (JPRS-48331, pp 553-75)
structures for, temperature effects on, 23:4182 (KFK-539/1)
subcriticality of, static method for determination of, (T), 24:46015(T) (EURFNR-757)
subcriticality of, statistical method for determination of, 24:31132 (KFK-1148)
technologic experience and problems with liquid sodium cooled power, summary of, 23:11152(T) (AEC-tr-6974)
temperature calculations for TREAT, analog-digital computer program for transient, 22:14122 (ANL-7374)
temperature distribution in ceramic, determination of, 21:46854(R) (GEAP-5098)
temperature measurements in LMFBR, development of ultrasonic systems for, 22:28209(R) (NYO-3906-2)
temperature measurements in, microwave technique for in-core high, 24:46023
temperature transients in, computer analysis of fuel element deformation during, 25:45038
thermal hydraulic analysis for, 21:38457(R) (GEAP-5491)
thermocouple development for, 23:30140 (GEMP-1010, pp 260-90)
thermocouples for, development of, 24:967 (GEMP-1012(Pt.2), pp 253-309)
thermocouples for, testing at 2300°C for 1000 hours of tungsten and tungsten/rhenium, 23:35565
thermodynamic efficiency of, improvements for, 21:25682(P)
thermomechanical analysis of burst-type, methods for calculation of, (T), 23:15710 (SC-DC-69-1630-A)
thermometry program for LMFBR, summary of, 23:16189 (ORNL-4335, pp 60-71)
transfer functions for pulsed, calculation of sampled, (T), 25:46289 (EUR-4462)

  transfer functions of coupled, high frequency measurements of, 21:17457 (LA-DC-8299)
  transfer functions of sodium cooled, analysis of space-dependent, (T), 25:36987 (ANL-7788)
  transfer functions of, TEMPLE program for conversion to time domain, 21:30088 (AEEW-R-728)
  transient calculational methods for, development of, 21:46854(R) (GEAP-5098)
  transients analysis by use of computers, 21:23663
  transients in large, effects of space-time perturbations with feedback on, 24:7324
  transients in oxide fueled, procedures for computing disassembly effects of reactivity, 23:37569
  transients in sodium cooled, multigroup spatially dependent analysis of mild, 25:60237
  transients in, analysis of spectral effects on, 24:7344
  transients in, SAS1A code for analysis of power and coolant flow, 25:28727 (ANL-7607)
  transients in, space-time kinetics description of, 23:37138(R) (RPI-328-160)
  transients in, spectral synthesis method analysis of spatially dependent, 25:54279
  transport equations for, perturbation theory solution to multigroup integral, 24:5547 (KFK-844)
  transport equations for, perturbation theory solution to multigroup integral, 24:13599(T) (EURFNR-669)
  turbine cycles for integrated carbon dioxide cooled breeder power, design characteristics of direct and indirect, 23:28539
  turbines for helium cooled breeder, characteristics of gas, 24:36055 (EIR-181)
  turbines for helium-cooled, effects of intermediate cooling on efficiency of, 23:47669 (EIR-156)
  ultrasonic thermometry system for liquid metal-cooled, description of, 22:14139(R) (NYO-3906-1)
  use for desalting, 21:23705(R) (ORNL-4087)
  use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
  use in USSR power generation system, evaluation of projected, 23:52306(T) (JPRS-48330, pp 6-11)
  vessels for sodium-cooled, review of design of, 25:51115
  vibrations in pulsed, effects of repeated thermal shocks on amplification of, (T), 22:53413 (EUR-4060)
  void formation in sodium-cooled, method for calculating, 21:6137
REACTORS, FLUID-FUELED
    see also Aircraft Reactor Experiment
    see also KEMA Suspension Test Reactor
    see also Liquid-Metal-Fuel Reactor
    see also Los Alamos Molten Plutonium Reactor Experiments
    see also Molten Salt Breeder Experiment
    see also Molten Salt Breeder Reactor
    see also Molten Salt Reactor Experiment
    see also Pebble Bed Reactor Experiment (ORNL)
    see also Reactors, Molten-Salt
  blankets for fast breeder, analysis of optimum economics for sodium—uranium nitride (UN) paste-type, 23:13501 (ANL-7475)
  boiling detection in, ultrasonic instrumentation for, 21:23609(R) (NYO-3622-7)
  book: The Surface Chemistry of Carbon: Studies on the Use of Carbon as an Adsorbent in Nuclear Reactors of the Aqueous Suspension Type, 23:24253
  chemical research and development for breeder, 21:30163 (ORNL-TM-1853)
  components for, review of corrosion problems in molten-salt, liquid-metal, and aqueous-slurry, 25:55395
  coolant for pellet fueled, description of inert gas dust suspension, 23:43112(P)
  coolants for MOSEL, properties of fused fluoride salt mixtures for, 21:27685 (JUL-422-RG)
  cooling system for, development of, 21:7857(R) (APDA-195)
  core for superheating, description of circulating-fuel dual-region fuel-separated, 23:15605(P)
  core for, computer program for calculation of optimum design parameters of, 25:57048 (ORNL-TM-3359)
  core for, description of multiple spaced vertical parallel plates in wall-and-channel, 23:9126(P)
  core of rocket, dust curtain in vortex flow of, 24:29065
  criticality calculations for, with variable-density circulating fuel, 21:7907
  description of fast, 22:18524
  description of heterogeneous, 22:42245(P)
  description of liquid-fueled liquid-cooled and -reflected, 22:37521(P)
  description of, liquid sodium-cooled rotating centrifugal force-controlled plutonium, 22:25070(P)
  design and operation, 21:5666(P)
  design criteria for uranyl sulfate fueled fast burst disposable core, conceptual, 23:26089 (LA-DC-10055)
  design of heterogeneous liquid-metal cooled, using core confined floating canned liquid fuel pellets, 21:17547(P)
  design of Kinetic Intense Neutron Generator concept, with aqueous liquid fuel core, 25:46303 (LA-4723)
  design of powdered-uranium-fueled heavy-water-moderated, 21:4396(P)
  design parameters for gas-cooled dust-fueled, 23:15614(P)
  design parameters of, 21:13981 (NP-16364)
  design parameters of liquid plutonium modular, calculational model, 21:42729(R) (LA-3745)
  design parameters of uranium-233 colloid fueled concept, with vortex fuel containment, 25:20811
  design parameters of water cooled and beryllium reflected supercritical, with annular core, 25:28650(P)
  design with pressurized system for reduction of start-up problems, 21:21740(P)
  development of liquid metal breeder, LMFBR, 22:10438(R) (NAA-SR-12585)
  development of ordered bed, 21:38440 (BNL-50044)
  development of rocket, review of, 23:52428
  development of thermal breeder, technical and economic aspects of, 25:23245
  development programs for Europe power, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
  dynamics equations for, derivation of, 22:12042
  economics in Europe of uranium fueled, 21:44880
  fuel cladding for, development of vanadium-base alloy, 21:36839
  fuel cycle economics for liquid plutonium, 21:31940 (LA-3655)
  fuel cycle for, computer program for calculation of optimum, 25:57048 (ORNL-TM-3359)
  fuel decomposition in, effects of radial velocity distribution on uranyl sulfate, (E/T), 24:38492 (LA-4294)
  fuel development for breeder type fast, 22:8847(R) (NUMEC-3524-37)
  fuel element cladding for LMFBR, development of vanadium-base, 22:45757(R) (WARD-3791-20)
  fuel elements for, description of sealed cylindrical inner-body, 23:7433(P)
  fuel for homogeneous thermal, description of fused oxyceramic, 24:16203(P)
  fuel heat transfer in, analysis of vertical-tube laminar and turbulent upward-flow, (E/T), 23:7390
  fuel loop for, testing flowable sodium—uranium paste, 21:35564(R) (APDA-193)
  fuel reprocessing for, 22:8187
  fuel suspension flow at 250°C in, analysis of optimum thorium oxide (ThO_2)—uranium oxide (UO_2), 22:35531
  fuel system design for fast breeder-type, 21:19436(P)
  fuel tubes for, two-dimensional analysis of heat transfer and fluid flow in triangular-shaped bundle-type, (T), 23:2030 (LA-DC-9807)
  fuels for, development of plutonium alloy, 23:8254
  heat transfer and power density in MOSEL, 21:27685 (JUL-422-RG)
  heat transfer in, use of partial differential operator for analysis of, (T), 24:50211 (BARC-492)
  instrumentation for, review of, 23:746
  kinetics equations for power, description of steady-state, (T), 22:35509
  kinetics of two dimensional circulating liquid metal fueled, calculation of high power, 23:23985 (N-68-36055)
  kinetics of two dimensional, effects of radial temperature distribution on, (T), 23:45137
  noise analysis of homogeneous, high and low frequency, 23:11298 (RCN-98, pp 359-79)
  operation with thickened fuel slurries, 21:2858(P)
  performance criteria for 500 MW 10^{17} neutron flux, description of, 22:32936
  physics parameters of uranium carbide—zirconium carbide fueled fluidized bed, with rotating annular core, 25:41586
  reactions in, use of thermodynamics to predict, 21:1189
  shielding for, effects of fission product decay on, (T), 24:50099
  shielding of, approximate formula for n-bend calculation of gamma streaming through air ducts in, (E/T), 23:13468 (AERE-R-5773(Vol.3), pp 755-78)
  stability limits for large, (T), 24:33493
  stability of, 21:17484
  stability of power, analysis of, 21:14009
  stability of shutdown equilibrium state in, Krasovskii's functional method for asymptotic, (T), 25:3857
  stability of shutdown equilibrium state of, space independent differential-difference linear model of asymptotic, 25:28810
  stability of, effects of fuel density on, (T), 24:50237
  transfer functions for direct-contact sodium, analytic derivation and computer calculations for, 21:44849 (LA-3734)
  ultrasonic flowmeter for use in, 21:23609(R) (NYO-3622-7)
  use of stainless steel in, evaluation of types 304 and 316 for, 22:8694 (MSAR-67-216)
Reactors, Fluidized-Powder
    see Reactors, Fluid-Fueled
Reactors, Fused Salt-Fueled
    see Reactors, Molten-Salt
Reactors, Fog-Cooled
    see Reactors, Water-Cooled
REACTORS, FRANCE
    see also Brittany Power Reactor (EL-4)
    see also Bugey Reactors (EDF-5)
    see also Cadarache Reactors
    see also Chinon Reactors
    see also Fessenheim Power Reactor, Unit 1
    see also Fontenay-aux-Roses Reactors
    see also Grenoble Reactors
    see also Marcoule Reactors
    see also Saclay Reactors
    see also Saint Laurent-des-eaux Reactor (EDF-4)
    see also Saint Laurent-des-Eaux Reactor, Unit 2
    see also ZOE Reactor
  book: Nuclear Engineering Volume III, in French, 21:19432
  control of, use of digital computers for, 23:40306
  control of, use of digital computers for, 23:40307
  description of carbon dioxide-cooled heavy water-moderated 600 MW(e), 22:30241
  descriptions of power, 21:38482
  design parameters for 250 MW(e) liquid sodium-cooled plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled Phenix, analysis of, 22:35498
  design parameters for Franco—German Research, at Max von Laue—Paul Langevin Institute, 23:33090
  development and economics of power, 21:19408
  development and engineering of, 21:25651
  development of, 21:27708
  development of desalination, review of program for, 23:49610
  development of dual purpose desalination and power, 25:18216
  development of fast breeder, 25:25961
  development of fast, review of, 24:33354
  development of fast, review of program for, 24:24794
  development of fast, summary of program for, 25:25964
  development of gas cooled graphite moderated, review of, 24:24683
  development of high temperature, summary of, 25:54037 (A/CONF.49/P-585)
  development of liquid sodium cooled, review of, 23:47152 (ANL-7520(Pt.2), pp 20-3)
  development of power, economics for, 23:47210 (CNM-R-2(Vol.1), pp 34-45)
  development of power, economics of, 23:19466
  development of power, present trends for, 23:23868
  development of power, problems in and proposals for economic, 23:52373
  development of, review of, 25:57002
  development program for fast, 22:35479
  development program for fast, description of, 22:35625
  development program for heavy water-moderated carbon dioxide-cooled breeder, description of, 22:39832
  development program of fast breeder power, description of, 22:37448 (NP-17521)
  development program of heavy water-cooled and -moderated, description of, 22:30251
  development programs for power, 25:54035 (A/CONF.49/P-569)
  development programs of power, analysis of independent and joint, 23:33006
  development with integrated primary circuits, technical, economic, and safety aspects of, 23:13426
  effluents from, legal aspects of air and water contamination by, 23:35763 (CEA-CONF-1281)
  equipment for, production of heavy, 23:40934
  excursions in, simulation of, 21:27717
  fuel cycles for fast, development program for optimum plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:35500
  fuel element design for, 21:27726
  fuel element failure in, detection system for, 24:4015
  fuel elements for gas cooled graphite moderated power, design modifications for, 25:3877
  fuel elements for gas cooled graphite moderated power, optimum economic operating limits for, 25:3878
  fuel elements for, methods for fabricating, 25:6847
  fuel elements of gas cooled graphite moderated power, failure in France of cladding of, 25:3879
  fuel fabrication for fast, economics of, 22:35499
  fuel reprocessing for fast, economics of, 22:35499
  fuels for fast breeder, development of, 24:33321
  fuels for fast, production of plutonium, 25:6846
  fuels for power, technical and economic aspects of natural and enriched uranium, 24:38642
  fuels for, reprocessing of, chemistry and economics of, 24:16667
  fuels for, safety and economic aspects of uranium processing and reprocessing of, 23:15638 (CEA-CONF-1093)
  fuels from, research on equipment and methods for shipping spent, 25:51752 (A/CONF.49/P-611)
  instrumentation for, development of, 22:14156
  instrumentation in power, use of, 21:27769
  operation experiences of gas cooled power, review of, 24:18570
  operation of power, 1967 summary of, 23:4171 (NP-17597, pp 41-73)
  operation of power, power-generating cost analysis for optimum, 22:39766 (EUR-3079(Rev.))
  operation of research, 1967 summary of, 23:4316 (NP-17597, pp 151-65)
  performance of power, comparison of, 22:48656 (RT/EC-(68)1)
  policies and requirements for power, evaluation of various design concepts and economics to determine, 23:21429
  pressure vessels for power, design safety recommendations for prestressed concrete, 22:44832(T) (ORNL-tr-1966-e)
  pressure vessels for, standards for prestressed concrete, 25:10160(T) (ORNL-tr-2402)
  pressure vessels for, use of models for measuring tensile strength of prestressed concrete, 23:51124
  radiation protection methods for, summary of Electricite de France, 25:53990 (A/CONF.49/P-848)
  safety aspects of, 25:36892
  safety experimental program for, data from, 22:18464
  safety instrumentation in, data tables on, 23:11254 (CEA-R-3550)
  shielding calculation for power, methods development for, 23:13476 (AERE-R-5773(Vol.4), pp 1247-68)
  shutdowns of power, analysis of unscheduled, 22:53286
  siting of power, safety considerations in urban, 22:18444
  survey of, general, 22:10017
  water treatment for CEA research reactors, 22:27871
REACTORS, GAS-COOLED
    see also Army Reactors (ML-1)
    see also AVR Reactor
    see also Belgian Reactor-1
    see also BEPO
    see also Berkeley Reactors
    see also Beryllium Oxide Reactor Experiment
    see also Bohunice Power Reactor, Unit 1
    see also Bradwell Reactors
    see also Brittany Power Reactor (EL-4)
    see also Brookhaven Medical Reactor
    see also Brookhaven Reactor
    see also Bugey Reactors (EDF-5)
    see also Calder Hall Reactors
    see also Chapelcross Reactors
    see also Chinon Reactors (EDF-1)
    see also Chinon Reactors (EDF-2)
    see also Chinon Reactors (EDF-3)
    see also Dungeness A Reactors
    see also Dungeness B Reactors
    see also Experimental Gas-Cooled Reactor
    see also Fessenheim Power Reactor, Unit 1
    see also Fort St. Vrain Power Reactor, Unit 1
    see also Gas-Cooled Reactor Experiment
    see also Gas-Cooled Reactor Experiment-II

see also Geesthacht Power Reactor
see also GLEEP
see also Hartlepool Power Reactors
see also Heysham Power Reactors
see also High-Temperature Gas-Cooled Reactor Experiment
see also Hunterston Reactors
see also Latina Power Reactor
see also Los Alamos Turret Reactor
see also Lucens Reactor
see also Marcoule Reactors (G-1)
see also Marcoule Reactors (G-2)
see also Marcoule Reactors (G-3)
see also Maritime Gas-Cooled Reactor
see also Niederaichbach Power Reactor
see also Oldbury Reactors
see also ORNL Graphite Reactor
see also Peach Bottom Power Reactor, Unit 1
see also Pebble-Bed Reactor Experiment (ORNL)
see also Reactors, AGR-type
see also Reactors, Magnox
see also Reactors, Pebble-Bed
see also Saclay Reactors (EL-2)
see also Saint Laurent-des-eaux Reactor (EDF-4)
see also Saint Laurent-des-Eaux Reactor, Unit 2
see also Sizewell Reactors
see also SLEEP Reactor
see also TARGET Reactor
see also Tokai-Mura Power Reactor
see also Trawsfynydd Reactors
see also Vandellos Power Reactor
see also Windscale Advanced Gas-Cooled Reactor
see also Windscale Production Reactors
see also Wylfa Reactors
accident analysis for high-temperature, 22:13062 (BNWL-473, pp 5.19-23)
accident analysis of, methods used in U.S., Canada, and U.K. for, 22:30195
accidents in fast, calculated effects of reactivity insertions simulating, 24:7151
accidents in fast, effects on core structures of severe, (T), 25:51151
accidents in high temperature power, review of U.S. safety programs on, 25:60130
accidents in high temperature, response dynamics for, 25:41493
accidents in U.K., analysis of fission product release from pressure loss, 25:57106
accidents in, fission product distribution from, 21:31908 (CONF-660904-Vol.1 and 2, pp 4-27)
accidents in, Graphite Oxidation Program for calculating possible consequences of, 23:15829 (BNWL-974)
auxiliary power systems for, performance requirements for standby diesel, 23:31173
bibliographies on foreign and domestic power, 23:17175 (BNWL-936(Vol.1))
bibliography on advanced and high-temperature, 23:9120 (JUL-Bibl.-14)
blower for conceptual 1000 MW(e) HTGR concept, design criteria for reheat steam driver helium, 23:45053(R) (GA-9372)
blowers for conceptual 1000 MW(e) high temperature, design parameters of helium, 24:4026(R) (GA-9660)
blowers for graphite moderated, description of removable pressure vessel mounted, 24:22401(P)
blowers for high temperature power, development of steam turbine driven helium, 24:46039
blowers for high temperature, development of helium, 25:10166 (GA-10265)
blowers for power, design characteristics of, 23:28406
blowers for, description of angularly adjustable vanes for gas flow control to, 25:46159(P)
blowers for, description of removable, 25:39246(P)
blowers for, description of variable frequency ac motor drive, 24:26757(P)
blowers for, design of fluid-tight high capacity axial flow, 23:13912(P)
blowers for, design principles of coolant, 24:1995
blowers of, model testing of starting and stopping aerodynamics of, 23:26045
boiler for high temperature, development of, 25:10166 (GA-10265)
boiler for, design of once-through steam, 24:5807(P)
boiler for, design of tubular, 21:19827(P)
boiler tubing for, fabrication of finned, 22:7858
boilers for 1000 MW(e) HTGR-type, updated conceptual design parameters of, 23:4166(R) (GA-7801)
boilers for 1000 MW(e) reference design high temperature, design parameters of, 24:38490 (DP-Report-135(Pt.2))
boilers for high temperature power, computer calculations for optimum design parameters of, 25:1916
boilers for high temperature power, design parameters for, 23:37606
boilers for integrated 600 MW(e), effects of engineering and economic factors on design of, 23:28481
boilers for integrated power, effects of configuration on design parameters of, 23:28478
boilers for power, design characteristics of, 25:3898
boilers for power, development in U.K. of, 24:28877
boilers for power, development of, 24:29010
boilers for power, development of, 25:3900
boilers for, design of, 21:46997(P)
boilers for, thermodynamics of water—steam secondary system of, (E/T), 24:52913
boilers for, with horizontal coolant flow through steam generator pipes, 23:1997(P)
buildings for 1000 MW(e) high temperature, layout designs for, 24:52852 (GA-9400(Vol.1))
buildings for 1000 MW(e), construction methods and economics of reactor, 24:16122 (GA-9400(Vol.3))
capital investments in advanced, developments for reduction of initial, 23:31147
carbon dioxide—graphite reactions in, use of hydrocarbons to inhibit, 21:46985(P)
carbon transport in high temperature, reaction kinetics and corrosion rates for, 22:30145 (EUR-3900)
cesium contamination deposition on stainless steel in, 21:30995 (GAMD-7525)
chemistry of, review of research on, 21:21919 (ORNL-4076, pp 81-115)
component design and construction for, 23:45051 (CONF-681064-2)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
components and materials development and testing, 21:13226 (ORNL-3970, pp 150-63)
components for, review of corrosion problems in, 25:55393
compressors for power, design parameters of nitrogen pressurized labyrinth gland seal for turbo, 23:47144(P)
configuration of concrete pressure vessel-enclosed graphite-moderated internal closed-loop-cooled, description of, 22:42293(P)
configuration of high-temperature helium, description of optimum conceptual, 23:2020 (ORNL-TM-2297)
configuration of integral heat exchanger and multi-channel suspended core for, 22:39839(P)
configuration of multiple-zone spherical-fueled pneumatically-controlled, description of, 22:42290(P)
configuration of pressure vessel-enclosed graphite-supported and graphite-moderated multiple vertical fuel channel, description of, 22:50776(P)
configuration of pressure vessel-enclosed heat exchangers and shielded graphite-moderated core of, use of upward coolant flow in, 22:37491(P)
configuration of prestressed concrete-enclosed and -shielded power, with integral loading device and heat exchanger, 22:39844(P)
construction of graphite-moderated power, standards for steel pressure components in, 22:30183
construction of power, review of, 24:35957 (TRG-Report-1924)
construction of, engineering aspects of, 24:43791 (NP-10130)
containment for advanced, safety evaluation of design features of, 22:18453
containment structures for power heavy water-moderated, analyses of types of, 22:18449
containment structures for, design requirements and problems with, 23:28534
containment structures of conceptual 1000 MW(e) HTGR, design parameters for, 23:45053(R) (GA-9372)
containment system for, description of penetration seals for coolant, 23:45074(P)
containment vessel fabrication for, 22:12488
containment vessel for, radiation testing aluminous concrete, 24:14988 (CEA-CONF-1474)
containment vessels for 1000 MW(e), construction methods and economics of, 24:16122 (GA-9400(Vol.3))
containment vessels for, evaluation of safety of, 22:30195
control characteristics of high temperature, review of, 25:18162
control elements for 1000 MW(e) HTGR-type, reactivity worth of, (E/T), 23:4165(R) (GA-7553)
control elements for 1000 MW(e) HTGR-type, reactivity worth of, (E/T), 23:4168(R) (GA-7981)
control elements for 1000 MW(e) HTGR-type, reactivity worth of, (E/T), 23:4166(R) (GA-7801)
control elements for heavy water-moderated power, reactivity worth calculations for vertical movement of horizontal grid, (T), 23:26032 (ZJE-42)
control elements for, description of electromagnetic driven boron steel chain, 22:20868(P)
control elements for, radioinduced dimensional change in boron—graphite, fast neutron, 23:51144 (GAMD-9276)
control of natural uranium fueled graphite moderated, use of computer programs for analysis of, (T), 24:16173 (BNL-50117, pp 347-64)
control requirements for direct cycle gas turbine power, computer program analysis of, 25:20766
control rod design without mechanical drive for natural uranium fueled heavy water-moderated, 22:1826
control rod drives for integrated power, design characteristics of, 23:28455
control rod drives for power, reliability analysis in Europe of, 24:26745 (CONF-690951-1)
control rod shock absorbers for, design of compressed gas, 21:46912(P)
control rod standpipes for, description of top and bottom pressure vessel penetrating, 25:54066(P)
control rods for 1000 MW(e) reference design high temperature, reactivity worth of, 24:38491 (DP-Report-135(Pt.3))
control rods of, temperature coefficients at 15 to 210°C of, 21:21681
control system for conceptual 1000 MW(e) high temperature, description of, 24:4026(R) (GA-9660)
control system for direct cycle gas turbine power, development of flowing gas, 25:20777
control system for direct cycle gas turbine power, development of flowing gas, 25:20712
control system for graphite moderated, description of circulating particle type fuel, 23:52331(P)
control system for graphite-moderated, design of, 21:19433(P)
control system for power, description of neutron-flux- and coolant-temperature-activated flow-regulating, 23:13382(P)
control system for, description of coolant temperature actuated, 24:11178(P)
control system for, design of, 21:5664(P)
control system for, design requirements of, 25:28675
control systems for 1000 MW(e) reference design high temperature, design parameters of, 24:38490 (DP-Report-135(Pt.2))
control systems for high-temperature power, development of digital computer, 23:13446 (GAMD-8734)
control systems for, description of, 23:2015
control systems for, design and performance of automatic, 21:17503
control systems for, design characteristics of neutron flux monitoring automatic, 25:60054(P)
control systems for, design of fluid, 22:1832
control systems for, review of, 21:17502
coolant additives for carbon dioxide cooled graphite moderated, decreased coolant radiolytic reaction with graphite by methane, 25:54074(P)
coolant blower failure in, transient processes following, (T), 23:52385(T) (JPRS-48330, pp 385-95)
coolant blower for, description of removable externally-driven horizontally-mounted, 23:19491(P)
coolant blower for, design of liquid shaft seal for, 24:4403(P)
coolant blowers for helium-cooled high-temperature, description of gas bearings for, 22:42223
coolant blowers for large, trends in design of, 22:7846
coolant blowers for, description of centrifugal, 22:7860
coolant blowers for, description of interchangeable, 25:26082(P)
coolant blowers for, design of high pressure low flow, 25:28833
coolant blowers for, development of gas turbine, 25:34204
coolant blowers for, development of oil-fed hydrodynamic shaft seals for, 22:7849
coolant blowers for, operation of mixed flow, 23:45449
coolant channel for, equations for heat transfer kinetics in, 23:38164 (SGAE-RT-20/1969)
coolant channels of, design of gas flow regulator for, 24:38528(P)
coolant circuits for high temperature, constriction of integrated and nonintegrated, 23:28542
coolant circulation in, evaluation of, 21:31968
coolant circulation unit for, secondary pressure containment means for removable, 25:28831(P)
coolant circulator for 1000 MW(e) HTGR concept, design criteria for reheat steam-driven helium, 23:43083(R) (GA-9227)
coolant circulator for, design of shrouded step thrust bearings for helium, 22:8279
coolant circulator for, liquid shaft seal device for, 21:8002(P)
coolant circulator for, with two independent turbine drive systems, 24:16187(P)
coolant circulator intake duct for, sound absorbing device for, 25:28832(P)
coolant contaminant removal from, design for filter for, 21:25752(P)
coolant depressurization incidents in fast breeder, performance of emergency core cooling systems following, (T), 25:20767
coolant development for, review of, 22:7834
coolant dynamics of Czechoslovakian A—1, determination of primary cycle, 21:27735
coolant flow analysis for, 21:40553 (GA-6881)
coolant flow analysis for high temperature power, FLAC computer program for, 23:45060 (GA-9482)
coolant flow distribution in, analysis of three-dimensional, 21:38490
coolant flow in cores of, effects of flow rate on temperature rise of, (T), 23:15634
coolant flow in high temperature, effects of graphite contraction on, 22:42189 (GAMD-8423)
coolant flow in, design of control device for, 21:46986(P)
coolant flow path for, description of power fuel axial entrance and radial exit, 25:54076(P)
coolant flow patterns for direct cycle gas turbine, control system for core by-pass, 25:60073(P)
coolant flow regulating device for, use of sonic venturi throat for downward pressure in, 22:25041(P)
coolant flow stability in, analysis of laminar, 21:42764
coolant for fast, heat transfer characteristics of, 24:18669
coolant for graphite moderated, carbon dioxide—graphite reaction suppression by fluid paraffin hydrocarbon additive in, 23:40350(P)
coolant for graphite moderated, catalytic method for purification of carbon dioxide, 24:4052(P)
coolant for graphite-moderated, effects of organic additive on graphite reaction with carbon dioxide, 23:9149(P)
coolant for helium cooled power, world supply and demand for, 24:9100
coolant for high temperature, diffusion studies on, 21:38450(R) (GA-7181)
coolant for high temperature, electrolytic hygrometer for measurement of water and hydrogen in, 25:3882 (DP-Report-487)
coolant for high-temperature, performance and requirements of helium, 21:15736
coolant for, description of primary loop bypass purification loop for, 24:20556(P)
coolant for, infrared absorption hygrometer for measurement of water impurities in, 24:4502 (BNWL-1134)
coolant for, method for removal of carbon dioxide and water from, 22:25053(P)
coolant for, purification system for, 24:46061(P)
coolant for, system for control of fission products in, 25:57033
coolant gas flow regulator for, 21:6365(P)
coolant gases for, development of Brayton cycle turbocompressor for pumping, 21:41089(R)
coolant impurities in, development of infrared absorption hygrometer for detection of, 21:22189 (BNWL-377)
coolant ionization in graphite moderated, determination of carbon dioxide, (E/T), 24:43855 (CEA-R-3985)
coolant loop for, description of double high-pressure vessel ducts for, 22:16235(P)
coolant loss accident conditions for direct cycle gas turbine fast, computer program analysis of, 25:20765

coolant loss accident conditions for direct cycle gas turbine power, computer program analysis of, 25:20766
coolant loss accident conditions in fast power, analog computer simulation of, 24:46073
coolant loss accident for fast breeder, cooling system response to, 25:41494
coolant loss accidents in helium cooled fast, analysis of core meltdown following, 24:50154 (CONF-700401-, pp 890-906)
coolant loss accidents in high-temperature, fission product release from overheated bonded uranium carbide (UC_2) fuel in simulated, (E), 23:17234 (ORNL-TM-2388)
coolant mixing and pressure drop in, determination of, 23:6038
coolant moisture content measurement in, description of optical dewpoint detector for, 22:28244
coolant moisture detection systems for, evaluation of potential, 22:24958 (GAMD-5109)
coolant of high-temperature, design of cavity resonator for detection of water vapor in, 23:35566
coolant oxidizing reactions with graphite in, computer calculation of, 24:23536 (BNWL-1279, pp 7.1-7)
coolant pressure equalizer for liquid moderated, description of piping and valve system for, 25:23274(P)
coolant properties in, thermodynamic comparison of, 22:7835
coolant purification for, method and apparatus for oxidation—reduction, 21:40641(P)
coolant purification in, description of heat exchangers and activated charcoal filters for, 22:37497(P)
coolant purification in, sorption bed for, 21:5724(P)
coolant purification in, with addition of methane, 23:35116(P)
coolant purification system for high-temperature power helium-cooled, comparison of direct cycle expansion-cooled and indirect cycle, 23:15630(T) (ORNL-tr-3012)
coolant purification system for, design of helium, 25:50891
coolant purifying system for, design of, 22:30175
coolant radioactivity from helium-3 (n,p) tritium reactions in, (T), 22:42217
coolant reaction with graphite in carbon dioxide cooled, additives for preventing radiation induced, 23:37493(P)
coolant reaction with water vapor in high temperature, safety consequences of, 23:21506
coolant sampling in, description of valve-regulated gas-tight filling head for multiple-point, 23:19516(P)
coolant storage for high temperature graphite moderated, description of high pressure steel piping for, 23:31174(P)
coolant temperature control system for power, description of, 23:6005(P)
coolant temperature profiles in, determination of heat balances from, 23:6038
coolant temperatures in, effects on uranium oxide (UO_2) pellet and fuel can expansion of regulated, 24:11180(P)
coolant transport property variations in, effects of turbulent thermal entry on, 22:5942
coolants for fast breeder, use of helium as, 22:5938
coolants for gaseous core, radiant heat transfer parameters of aerosol, (E), 24:33469
coolants for high temperature, chemistry and molecular sieve purification of helium, 25:51072
coolants for high temperature, properties of helium, 25:57040
coolants for high temperature, removal of impurities and fission products from helium, 24:40869 (DP-Report-83)
coolants for high-temperature, microwave equipment for measurement of moisture in, 23:50220
coolants for, development of molecular sieves for removal of water and carbon dioxide from helium, 23:4210
coolants for, economic analysis of helium, neon, and carbon dioxide as, 23:28369
coolants for, economic comparison of helium and neon, (T), 25:20729
coolants for, gage for determination of water vapor in, 24:36665(P)
coolants for, gas-solids suspensions development as, 22:7836
coolants for, heat transfer properties of carbon dioxide as primary and secondary, 23:40355
coolants for, properties of dissociating gases as, 23:52338(T) (JPRS-48330, pp 640-66)
coolants for, review of research programs on properties of dust, 24:18638
cooling channel pressure and temperature curves for, PRAWDA computer program for, 23:17178(T) (EURFNR-582)
cooling circuit rupture in, transient processes following primary, (T), 23:52384(T) (JPRS-48330, pp 369-84)
cooling circuits for heavy water moderated carbon dioxide, analysis of advantages and disadvantages of integrated primary, 23:28540
cooling circuits in graphite-moderated, iodine reactions in, 24:25025 (ORNL-TM-2916)
cooling circuits of high temperature, measurement of adsorption isotherm for iodine on low chromium alloy steel at 400°C in, 23:52343
cooling cycles for, method for thermodynamic analysis of, 23:43113
cooling effects of gas flow in, operational and emergency, 21:42768
cooling streams for, performance of sand-bed filters for removing radioactive aerosols from, 25:29315 (ANL-7683)
cooling system cyclone separator for fission product removal in, description of, 22:42234(P)
cooling system ducts for, design and testing bellows-type joints for, 24:2358
cooling system failure in, counterflow brake for depressurization reduction following, 22:47056(P)
cooling system flow and temperature distribution in core of, analysis of, (T), 22:32874
cooling system flow channels for, analysis of design criteria for improved, 23:13489
cooling system for 1000 MW(e) fast, recuperator for direct gas turbine, 24:9099
cooling system for 1000 MW(e) high temperature, design parameters of primary, 24:52852 (GA-9400(Vol.1))
cooling system for advanced power, design restrictions of, 23:28411
cooling system for carbon dioxide cooled power, description of regenerative heat exchanger, 24:11181(P)
cooling system for closed circuit gas-turbine, description of dual-stage turbine-drive, 22:39836(P)
cooling system for conceptual 1000 MW(e) high temperature, performance of, 24:4026(R) (GA-9660)
cooling system for conceptual 1000 MW(e) HTGR, flow diagrams of, 23:45053(R) (GA-9372)
cooling system for concrete pressure vessel-enclosed integral, description of controlled parallel flow paths with dome-sealed external secondary, 22:37492(P)
cooling system for concrete-enclosed, description of multiple wall-mounted fan-cooled heat exchanger in, 23:9148(P)
cooling system for desalination and power, description of compressor and turbine effluent brine heaters in, 22:37524(P)
cooling system for graphite moderated power, description of baffled core, 23:52314(P)
cooling system for graphite-moderated, configuration of closed-loop upward-core-flow, 23:11196(P)
cooling system for graphite-moderated, description of multiple core-extending inlet plenums in, 23:9150(P)
cooling system for graphite-moderated, description of core supporting multiple heat exchangers closed loop, 23:23905(P)
cooling system for graphite-moderated, description of dual stream fuel and moderator, 23:28483(P)
cooling system for graphite-moderated, description of nickel catalyst for methane production in carbon dioxide, 22:48663(P)
cooling system for graphite-moderated, description of nickel catalyst-bed for methane production from hydrogen and carbon monoxide in, 23:17184(P)
cooling system for graphite-moderated, mathematical simulation of carbon dioxide flow conditions in, 24:36482(T) (ANL-Trans-834)
cooling system for heavy water-moderated power, effects of scram conditions and main blower failures on dynamics of, 23:26042 (ZJE-34)
cooling system for heterogeneous water- cooled, description of dual-medium superheating, 22:37481(P)
cooling system for high temperature power, advantages and disadvantages of helium, 25:12789
cooling system for high temperature power, design problems for integrated boiler configuration in, 23:28477
cooling system for high temperature, adsorption of iodine on metal surfaces of, 24:20581(R) (ORNL-TM-2829)
cooling system for high temperature, adsorption of iodine on metal surfaces of, 24:29038(R) (ORNL-TM-2919)
cooling system for high temperature, decontamination of stainless steel pipes of, 24:50103 (DP-Report-410)
cooling system for high temperature, design, construction, and operation of helium purification system in, 24:38530
cooling system for high-temperature power, description of direct-cycle, 23:19487(P)
cooling system for integral graphite moderated, description of improved access, 23:43111(P)
cooling system for integral, description of core-enclosing -annular-arranged multiple-tube heat exchanger of upward-core-flow, 22:53312(P)
cooling system for integral, description of vertically-stacked multiple horizontal flat tube coil heat exchangers for downward-core-flow, 22:53311(P)
cooling system for integrated, description of, 25:23275(P)
cooling system for liquid-moderated, description of dual heat exchanger, 22:10040(P)
cooling system for liquid-moderated, description of balance tank-regulated pressure equalizer for, 23:4214(P)
cooling system for moderator and pressure vessel of graphite moderated, description of bleed duct by-pass, 25:31565(P)
cooling system for power, effects of pod boilers on design of, 23:28474
cooling system for power, flow diagram for valve actuated emergency loop for direct cycle, 23:40281(P)
cooling system for, acoustically induced vibration and fatigue in, 24:7583
cooling system for, computer program for calculating hot channel temperatures and factors for, 23:26039 (KFK-815)
cooling system for, control of fission products in, 23:40359
cooling system for, description of flow control dual heat exchanger, 24:36023(P)
cooling system for, description of flow regulating, 25:57041(P)
cooling system for, description of pressurized carbon dioxide turbine drive, 22:10042(P)
cooling system for, description of radio-chemical processes in, 22:35679
cooling system for, description of steam generating heat exchangers in multiple ducts for circumferential-flow, 22:39845(P)
cooling system for, description of turbine adiabatic expander for gas cooling in, 23:4211(P)
cooling system for, design and operation of carbon dioxide loop for development of, 24:38525 (ZJE-68)
cooling system for, design characteristics of, 25:53900 (A/CONF.49/P-469)
cooling system for, design of dual gas—liquid, 21:5643(P)
cooling system for, design requirements for, 25:54147 (A/CONF.49/P-475)
cooling system for, effects of gas flow conditions on acoustic vibrations in, 25:34348
cooling system for, flow configuration for dual-temperature dual-stream, 22:48675(P)
cooling system for, performance of turbines for two-cycle helium—steam and one-cycle helium, 22:30219
cooling system for, thermodynamic analysis of, (T), 24:31063
cooling system for, thermodynamic performance at 700 to 1000°C of intermediate, 22:39796
cooling system gas circulators for, model analysis of optimum inlet configuration of, 23:13490
cooling system insulation in, heat transfer performance of stainless steel foil for, 22:7839
cooling system model for Tokyo University, description of, 21:21672
cooling system of fast breeder, design parameters for, 24:18611
cooling system of fast power, description of prestressed concrete enclosed, 23:52340(P)
cooling system of fast power, description of prestressed concrete pressure vessel contained closed loop, 23:52320(P)
cooling system of French, design and operation of blowers for, 21:14021
cooling system of graphite moderated, description of channeled core passages for, 24:26754(P)
cooling system of graphite moderated, EDITH code for dynamic and thermal characteristics of, 24:11179 (CEA-R-3915)
cooling system of high temperature, carbon transport in, (T), 24:43733 (DP-Report-383)
cooling system of high temperature, FREVAP-8 model for calculation of metallic fission product release to, 23:33053 (GAMD-7535(Rev.))
cooling system of high temperature, use of triethylsilane additive for prevention of carbon deposition in, 23:49561(P)
cooling system of integrated power, safety considerations for, 23:28531
cooling system of, adsorption equilibria of helium—krypton—methane gas mixtures on surface active charcoal in, 23:19489
cooling system of, analysis of pressure waves in cylinder shaped wave guide for, (T), 24:5523 (ZJE-54)
cooling system of, corrosion problems from carbon dioxide in, 23:16464(T) (UCRL-Trans-10326)
cooling system of, description of hydrogen extracting membrane system for carbon dioxide, 22:25039(P)
cooling system of, description of magnetic filters for, 25:1884(P)
cooling system of, description of pressure vessel-contained core and boiler for closed cycle, 23:9141(P)
cooling system of, description of quick release non-return valves for, 24:11182(P)
cooling system piping in, shutdown thermal loading analysis for, 25:39640 (ZJE-67)
cooling system pressure sensor for, use of hydrogenated terphenyl for transmitting fluid for, 22:22782(P)
cooling system seal design, 21:8007(P)
cooling system thermal insulation in, properties of pumice concrete for, 22:7838
cooling system thermal insulation in, thermal conductivity of granular mineral, 22:7840
cooling system turboblowers for, description of containment vessel-mounted self-cooled, 22:25055(P)
cooling system turboblowers for, description of containment vessel-mounted self-cooled, 22:25057(P)
cooling systems for fast power, design requirements for, 24:47854
cooling systems for fast, design aspects of, 24:18644
cooling systems for helium cooled, performance of bearings in, (T), 25:46256 (EUR-4343)
cooling systems for high temperature, calculations of efficiency of, 22:32807
cooling systems for high temperature, design requirements for primary and secondary, 25:18134
cooling systems for high temperature, fission product distribution in, (E/T), 25:48257(R) (GA-10661)
cooling systems for high temperature, fission product distribution in, 25:57092(R) (ORNL-TM-3483)
cooling systems for high temperature, heat transfer and fluid flow characteristics of, 25:60076
cooling systems for high temperature, kinetics of carbon deposition reactions in, (E/T), 25:10195 (DP-Report-500)
cooling systems for integral prestressed concrete pressure vessel-contained carbon dioxide power, description of, 22:53323(P)
cooling systems for, acoustic stresses induced in, (T), 22:7843
cooling systems for, actuating members and adjustable guide vanes for blowers in, 25:25980(P)
cooling systems for, analysis of fission products in, 25:10244(R) (ORNL-TM-3212)
cooling systems for, characteristics of cylindrical acoustic waves in, (E/T), 22:7845
cooling systems for, coolant flow control in fuel channels of, (E), 22:7844
cooling systems for, description of double cooling passage, 25:10202(P)
cooling systems for, description of multiple vertical concrete-enclosed removable heat exchangers for closed-loop, 23:19490(P)
cooling systems for, design of blower diffusers for, 22:1838(P)
cooling systems for, detection and measurement of acoustic and structural vibration in, 22:7842
cooling systems for, development of high pressure, 22:7833
cooling systems for, instrumentation system for fission product monitoring in, 24:9094 (ORNL-TM-2791)

cooling systems for, loop design for testing components of, 24:19126 (NP-18146)
cooling systems for, primary circuit design for, 22:7837
cooling systems for, sound propagation in high pressure, (T), 22:7841
cooling systems in high-temperature graphite-moderated power, effects of water and carbon dioxide impurities on carbon transport in, (E/T), 23:13484 (GA-8624)
cooling systems in high-temperature, thermodynamics of graphite—helium reactions in, 25:10518 (RD/B/N-1816)
cooling systems of high temperature, comparison of radiation detectors for fission product monitoring in, 25:25998
cooling systems of, activation and fission product deposition during turbulent flow in, (E/T), 25:31566
cooling systems of, fission product distribution in, (E), 25:34393(R) (ORNL-TM-3342)
cooling systems of, transient heat transfer behavior of, 24:31064
cooling systems of, transport and deposition of gaseous fission products in, (T), 25:48250 (RD/B/N-1906)
core access for, description of top closure with dual purpose fuel loading and control element standpipes, 25:10225(P)
core assembly of, method of, 21:44954(P)
core cells of, design of wall between hot and cold, 21:5658(P)
core components for advanced power, fabrication and construction requirements for, 23:28433
core components for high temperature, analysis of corrosion of graphite, 24:50151 (CONF-700401-, pp 293-310)
core components for high temperature, corrosion of graphite, 24:40869 (DP-Report-83)
core components for, corrosion inhibition system for graphite, 24:47838(P)
core components in high temperature, gasification reaction rates of graphite, (T), 25:5985
core components of, corrosion of graphite, 25:3860 (DP-Report-491)
core configuration for closed loop, description of flat coolant and moderator separators in loading tube supported, 23:28420(P)
core configuration for concrete pressure vessel-enclosed graphite-moderated, description of multiple vertical fuel channels in base-supported, 23:1999(P)
core configuration for, with parallel prismoidal columns of moderator material containing fuel, 25:10168(P)
core cooling system of, design of pipe coupling for, 21:44955(P)
core design for fast, with flat plate fuel elements at different spacings, 25:23247(P)
core design for water-moderated, 21:7996(P)
core design for, materials and engineering aspects of, 21:15745
core design for, thermal aspects of, 21:34106 (GA-7941)
core design for, with improved alignment between fuel channels and fuel charge tubes, 25:20695(P)
core design of graphite-moderated, reduction of radial column differential shrinkage by, 21:19501(P)
core design of, for gas turbine power conversion, 21:34099 (EUR-2757.e, pp 423-)
core design with double coolant channels, 25:10202(P)
core development for fast breeder power, July 1966 to July 1967, 23:17188(R) (GA-8107)
core development for fast breeder, Aug. to Oct. 1969, 24:13551(R) (GA-9811)
core development for fast breeder, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
core development for fast breeder, during February 1970 through January 1971, 25:51083(R) (GA-10517)
core development for fast breeder, during February through April 1971, 25:51084(R) (GA-10654)
core development for fast breeder, during November 1968 to January 1969, 23:45083(R) (GA-9229)
core development for fast breeder, Feb.—Apr. 1969, 23:43114(R) (GA-9359)
core development for fast breeder, November 1969 to February 1970, 25:18136(R) (GA-9838)
core development for fast breeder, summary from May to July 1969 of, 23:49564(R) (GA-9639)
core elements for, system for supporting and handling of, 25:1904(P)
core for conceptual 1000 MW(e) fast breeder, design comparisons of, 23:45082(R) (GA-8787)
core for fast, effects of severe accidents on performance of, (T), 25:51151
core for fast, heat transfer and fluid flow characteristics of, 25:41391
core for fast, synthesis method for uncertainty analysis of thermal design of, 22:18608
core for graphite moderated, design of distortion resistant keyed graphite blocks for, 24:22417(P)
core for graphite moderated, three dimensional calculation of power density and temperature in, 24:18761 (EUR-4385)
core for graphite-moderated, description of half core length spaced keys for prismatic graphite block, 23:28418(P)
core for high temperature pebble bed, temperature distribution and corrosion in, 25:36980 (JUL-725-RG)
core for high temperature, coolant flow and pressure distribution measurements in simulated, 22:42189 (GAMD-8423)
core for, keying system for graphite block structure in, 25:12770(P)
core graphite corrosion in high temperature helium cooled, effects of coolant impurities on carbon transport from, (T), 24:40973 (DP-Report-330)
core lifetime for graphite-moderated, determination for natural and enriched uranium fuels of, 22:50762
core materials for high temperature, radiation testing programs for, 24:40895 (TRG-Report-1911, pp 116-41)
core meltdown accident in 1000 MW(e) fast breeder, analysis of cooling and containment requirements for, 25:54161 (ORNL-TM-3546)
core of fast breeder power, design modifications for radiation induced swelling of, 25:6020
core of heavy water-moderated, effects of lattice parameters on resonance absorption in, 22:10003 (ITEF-518)
core of high temperature, effects of steam on graphite, 24:29038(R) (ORNL-TM-2919)
core of, description of key connected parallel stacked columns of moderator for, 24:24805(P)
core of, effects of fixed geometry—variable power and fixed power—variable geometry on economics of, 22:16740 (WB-KE-2004)
core orifices for 1000 MW(e) HTGR-type, design parameters for elimination of, 23:13412(R) (GA-8530)
core parameters for 1000 MW(e) HTGR-type, 23:13412(R) (GA-8530)
core parameters for thermal high temperature, summary of, 24:9084
core performance for high temperature, effects of fixed fuel temperature on, 22:32807
core physics measurements for uranium oxide (UO$_2$) and plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled, analysis of two- and three-ring cluster, (E/T), 22:22762
core seals for, description of multiple ring with overlapping graphite blocks for, 22:25058(P)
core structure for graphite-moderated, with multi-layered shield inside core vessel, 22:25054(P)
core structure for, description of keyed graphite block, 24:38484(P)
core structure for, description of multiple-column keyed-block pivot-secured graphite, 23:19476(P)
core structure for, with non-fissile support and pressure sensing member in stacked vertical fuel channels, 22:20892(P)
core structure of graphite moderated, description of graphite columns for, 25:57010(P)
core structure of helium cooled, reaction of steam with graphite in, (E), 25:46229 (EUR-4344)
core structure of, design of lagging box for, 21:44953(P)
core structure of, design of two-part, 21:44952(P)
core support design for, 21:23766(P)
core support grid for, 21:4401(P)
core support structure for graphite moderated, design of rigid grid metal plate, 24:22416(P)
core support structure for, design of graphite block separated metal plate, 24:22414(P)
core supports for, design of, 21:44956(P)
core with fuel elements surrounding moderator tubes in, design of, 21:25701(P)
cores for beryllia-moderated high-temperature, design study of parallel-channel and pebble-bed, 21:12116 (AAEC/E-153)
cores for fast breeder helium, nuclear and structural properties of oxide, metal-cermet, and carbide, 23:26029 (KFK-864)
cores for high temperature, design and performance parameters of, 25:41392
cores for integrated, description of, 25:23275(P)
corrosion control in, method of, 21:2834
corrosion of graphite in, method of inhibiting, 21:44902(P)
corrosion of graphite moderator in carbon dioxide, effects of coolant additives on, 23:52342(P)
cost analysis for 250 MW(e) high temperature, 25:28719
cost analysis for, review of development, operating, and fuel cycle, 25:51126
cost estimates for, summary of construction, operation, and maintenance, 24:9084
costs for 1000 MW(e), analysis of 1970 to 2020 capital, 25:37030 (ORNL-TM-3243)
description and economics of European, 21:42734
description and economics of Japanese 300 and 600 MW, 21:30211
description of 1000 MW(e) fast breeder, 22:16221
description of British, 21:38484
description of British dual-purpose desalination and power, 22:14239
description of fast, 22:18524
description of French heavy water-moderated 600 MW(e) carbon dioxide, 22:30241
description of fuel tube supported liquid-moderated, 22:12067(P)
description of graphite moderated high temperature, 22:42439(P)
description of graphite-moderated dual purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of heavy water-moderated dual purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of integral 550 MW unit, 22:3852
description of liquid-moderated concrete pressure vessel enclosed, 22:12068(P)
description of multi-stage turbine carbon dioxide, 22:27419(T) (NP-tr-1655)
description of multiple cartridge-type fuel tube for, with moderator jacket and coolant ducts, 22:16239(P)
description of multiple fuel channel on-load refuelling pressurized, with minimum cross section access tubes at pressure vessel penetration, 22:16236(P)
description of power, with closed-cycle gas turbine and secondary surface heat exchanger, 23:9127(P)
description of pressure vessel enclosed graphite-moderated, 22:20874(P)
description of sectioned fuel, for minimum coolant flow variation during unloading, 22:3875(P)
description of uranium oxide (UO$_2$)-fueled direct Brayton cycle maritime, 22:27451
description with core in upper portion of a prestressed concrete pressure vessel, 22:6049(P)
description with heat shield and multi-conduits for cooling for high-pressure, 22:10036(P)
description with inert gas system for prevention of moderator combustion during depressurization leakage, 22:6052(P)
descriptions of French natural-uranium graphite-moderated, 21:38482
design and development of 1000 MW, 21:35575(R) (GA-7010)
design and operation of, 21:12207(P)
design and operation of high-temperature, economics of, 23:8262
design characteristics for fast breeder, problems with, 25:41388
design characteristics of, 22:3836 (NP-16983)
design characteristics of fast breeder, in Germany, 25:60013 (KFK-1375)
design characteristics of gas fueled, 25:36985(P)
design characteristics of graphite moderated power, analysis of earthquake resistant, 23:37564
design characteristics of heavy water moderated power pressure tube and integrated, comparison of, 23:28429
design characteristics of high temperature, 25:36983
design characteristics of high temperature, 25:60030
design characteristics of high temperature advanced converters, review of, 23:43079 (CONF-670338, pp 197-214)
design characteristics of high temperature power, 25:5884
design characteristics of high-temperature power, 22:46943
design concept for fast breeder, technical and economic evaluation of, 23:34897 (WASH-1090)
design concept for maritime, with direct Brayton cycle, 23:7409
design development of British, 21:38483
design features of British, 24:24698
design features of, review of, 24:13527
design for 1000 MW fast, use of direct cycle gas turbine in, 24:16121 (EIR-163)
design for 1200 MWe high temperature pebble bed, conceptual, 22:39779 (JUL-519-RG)
design for 330 MW(e) fast breeder, description of, 24:18594
design for ship propulsion with helium turbine, 21:42796
design of 10,000 MWT, 21:40664
design of 1000 MW(e) fast, 21:38506
design of 20 MW(e) prototype, with gas turbines, 21:14006
design of 528 MW(e) high temperature power, assessment of conceptual, 22:5932(R) (NP-17118)
design of advanced, economics of, 22:1786
design of advanced, summary of physics characteristics for, 23:4193
design of Brayton cycle maritime, description of conceptual, 22:35563
design of carbon dioxide cooled, with gas turbine upstream of coolant inlet, 23:37494(P)
design of fast breeder, with moveable fissile and fertile fuel assemblies, 25:1862(P)
design of fast, GAZELLE-5 computer code for, 22:12024 (GAMD-6754)
design of fast, with direct cycle helium turbine, 24:24798
design of graphite-moderated power, evaluation of integrated, 23:9170 (CEA-CONF-1033)
design of helium cooled fast breeder, system and component requirements in, 24:18603
design of helium cooled, for producing hydrogen gas in endothermic system, 25:10294(P)
design of high-temperature, 21:15744
design of high-temperature pebble-bed, 21:15743
design of integrated heavy water moderated carbon dioxide, evaluation of, 23:2005
design of large high-temperature, 21:1159 (GA-7149)
design of pebble bed, 21:46916(P)
design of power, with dissociating nitrogen tetroxide coolant, 25:48240
design of refueling device, 21:25681(P)
design of vapor-cooled, 21:5644(P)
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, book on, 24:38396
design of, coupled to closed-cycle MHD generator, 21:19404
design of, using chemically combined fuel and moderator, 21:5653(P)
design of, using gas turbine cycle in high-temperature, 21:34093 (EUR-2757.e, pp 217-)
design of, with movable heat exchangers, 21:5668(P)
design parameters for 1000 MW(e) fast breeder, conceptual, 23:28432
design parameters for 1000 MW(e) fast breeder, limiting factors of, 23:11157 (CONF-680419-, pp 63-88)
design parameters for 1000 MW(e) high temperature, review of FY-69, 24:52852 (GA-9400(Vol.1))
design parameters for 1000 MW(e) HTGR concept, cost analysis of, 23:34896(R) (GA-8356)
design parameters for 1000 MW(e) HTGR concept, development during Dec. 1968—Feb. 1969, 23:43083(R) (GA-9227)
design parameters for 1000 MW(e) HTGR concept, development during March-May 1968, 23:40317(R) (GA-8662)
design parameters for 1000 MW(e) integrated and non-integrated direct cycle gas turbine, analysis of optimum, 25:20703
design parameters for 1000 MW(e) reference design high temperature, 24:38476 (DP-Report-135(Pt.1))
design parameters for carbon dioxide cooled pod boiler for power, 23:28482
design parameters for conceptual 1000 MW(e) breeder, 25:41387
design parameters for conceptual 1000 MW(e) HTGR, development during March to May 1969 of, 23:45053(R) (GA-9372)

design parameters for conceptual 1250 MW(t) high temperature, 24:40880 (DP-Report-255(Pt.II)(Vol.4))
design parameters for conceptual 1250 MW(t) high temperature, 24:40879 (DP-Report-255(Pt.II)(Vol.3))
design parameters for conceptual 1250 MW(t) high temperature, 24:40877 (DP-Report-255(Pt.II)(Vol.1))
design parameters for conceptual 1250 MW(t) high temperature, 24:40878 (DP-Report-255(Pt.II)(Vol.2))
design parameters for conceptual 1250 MW(t) high temperature, 24:40876 (DP-Report-255(Pt.1))
design parameters for conceptual 640 MW(e) prismatic core, 25:54130 (A/CONF.49/P-346)
design parameters for conceptual high temperature power, development during September to November 1968, 23:45052(R) (GA-9090)
design parameters for conceptual high temperature gas cooled, development during June to August 1969, 24:4026(R) (GA-9660)
design parameters for conceptual uranium oxide (UO_2) fueled high temperature power, development of optimum, 23:47180
design parameters for dust-fueled power, 23:15614(P)
design parameters for fast breeder power, description of optimum, 22:37448 (NP-17521)
design parameters for fast, analysis of optimum economic, 25:34324
design parameters for gas turbine high temperature power, 23:28435
design parameters for heavy water moderated carbon dioxide, calculation of optimum, 23:49542(T) (NSJ-tr-151)
design parameters for heavy water moderated power, 24:22384(P)
design parameters for heavy water-moderated natural uranium fueled power, analysis of optimum economics, 23:26020 (ZJE-33)
design parameters for heavy water-moderated, economic aspects of physical and thermodynamic, 22:1825
design parameters for high temperature power and process heat, analysis of optimum economic, 23:45055
design parameters for high temperature power, with direct cycle gas turbines, 25:20700
design parameters for high-temperature, 21:40553 (GA-6881)
design parameters for low enrichment uranium oxide (UO_2) fueled homogeneous helium cooled power, 23:37451
design parameters for plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled fast, effects of coolant properties on optimum, 23:23896 (EURFNR-615)
design parameters for U. S. power, 22:32912
design parameters for U.S. 768 and 1015 MW(e), 23:13356 (CONF-680601-45)
design parameters in Czechoslovakia of 500 MW(e) heavy water-moderated, description of optimum conceptual, 23:26021
design parameters in Italy for proposed 620 MW(e) advanced graphite moderated, 23:28431
design parameters in U.K. for prismatic fueled high temperature power, improvements in, 23:37509
design parameters of 1000 MW(e) helium cooled fast, 25:54011 (A/CONF.49/P-23)
design parameters of 1000 MW(e) high temperature, review of conceptual, 24:11155 (WASH-1085)
design parameters of 1100 MW(e) high temperature, 25:18105
design parameters of 1100 MW(e) high temperature helium cooled, 24:50073 (CONF-700401-, pp 195-213)
design parameters of 250 MW(e) high temperature, 25:28719
design parameters of 300 MW fast ceramic, prototype reference, 22:16189
design parameters of 300 MW(e) demonstration fast breeder, 25:41367 (CONF-710315-15)
design parameters of 300 MW(e) fast breeder, 24:50075 (CONF-700401-, pp 795-811)
design parameters of 50 MW(t) experimental high temperature helium cooled, 25:60011 (JAERI-Memo-4419)
design parameters of 600 MW(e), with closed cycle helium turbine, 24:50074 (CONF-700401-, pp 214-30)
design parameters of air cooled beryllium oxide moderated ABORIGINE concept, 24:43685 (AAEC/TM-534)
design parameters of aircraft closed cycle helium, with wing mounted propulsion turbines, 25:20810(P)
design parameters of conceptual direct cycle fast power, effects of silicon carbide (SiC) coated ceramic fuel on, 23:37510
design parameters of conceptual high temperature, for propulsion of surface-effects craft, 23:37681
design parameters of direct cycle gas turbine power, analysis of optimum economic, 25:20702
design parameters of fast breeder power, 25:3854
design parameters of fast breeder power, 24:5516
design parameters of graphite-moderated, 21:13981 (NP-16364)
design parameters of HTR type, 24:24791
design parameters of nitrogen tetroxide cooled fast, with gas-liquid heat transfer cycle, 25:34323(T) (JPRS-53069, pp 166-75)
design parameters of power, 24:45894
design parameters of proposed, in Norway, 24:43608
design problems with fast breeder, 25:60009 (CONF-710922-5)
design studies on fast, description of United States, 22:18502
design trends for helium cooled power, review of, 24:33231 (ORNL-TM-2946)
design with closed cycle carbon dioxide gas turbines and two compression and expansion stages, 25:28646(P)
design with closed cycle carbon dioxide gas turbine and means for turbine speed control, 25:28648(P)
design with closed cycle carbon dioxide gas turbine and means for maintaining constant pressure at reactor inlet, 25:28647(P)
design with closed cycle carbon dioxide gas turbines and automatic control of throttle and gas flow, 25:28653(P)
design with direct cycle carbon dioxide turbines, 25:60016(P)
design with direct cycle gas turbine and secondary indirect cycle turbine, 25:60027(P)
design with direct cycle turbine and means for load following, 25:51038(P)
design with internal fission by-product trapping means, 21:10188(P)
design with prestressed concrete pressure vessel and direct cycle gas turbine, 25:23249(P)
development, 21:15733
development and operation of British, during 1956 to 1967, 22:10018
development during Oct. 1968 to Mar. 1969, 24:4059(R) (ORNL-4424)
development during October 1969 to March 1970, 25:5990(R) (ORNL-4589)
development for commercial use, survey of Euratom, 22:1800
development history of, 22:20850
development in Czechoslovakia of heavy water-moderated power, analysis of future, 23:11119(T) (JPRS-47209, pp 57-73)
development in Czechoslovakia of heavy water-moderated, analysis of optimum design for, 22:30231
development in England of advanced, general discussion of, 23:26013
development in Europe of high temperature power, 25:12707
development in Europe, summary of, 24:13533
development in France and U. K, 21:19408
development in France of graphite moderated, review of, 24:24683
development in France, economic and industrial aspects of, 23:34898
development in Germany and U.K. of power, comparison of economics for, 23:37453
development in Germany of fast breeder, 25:41389
development in Germany of high temperature pebble bed, review of, 24:35999
development in Germany of high temperature power, effects of fuel cycle on predicted economic, 23:37512
development in Germany, review of, 24:50070 (CONF-700401-, pp 145-60)
development in Japan of dual purpose power and process heat, 25:37092
development in Japan of high temperature, effects of thorium fuel cycle on, 25:1856
development in U. K. of power, description of, 22:46905 (NP-17599)
development in U. S. of high temperature, 22:1812
development in U. S., survey of, 25:10102
development in U.K, 25:34204
development in U.K. of advanced, 23:13380
development in U.K. of high temperature Mark 3, 24:28989 (TRG-Report-1996)
development in U.K. of power, review of, 23:47147
development in U.K., review of, 23:28438
development in U.S. of fast breeder, 23:15608
development in Yugoslavia of, economics for, 22:24995
development of, 21:17555(R) (ORNL-3911)
development of 1000 MW(e) high temperature, review of, 24:11155 (WASH-1085)
development of 1000 MW(e) high temperature, review of FY-69, 24:52852 (GA-9400(Vol.1))
development of 1000 MW(e) HTGR concept during December 1970 through February 1971, 25:36977(R) (GA-10501)
development of 1000 MW(e) HTGR concept during December 1969 to February 1970, 24:28987(R) (GA-9944)
development of 1000 MW(e) HTGR concept during June through August 1970, 25:8050(R) (GA-10288)
development of 1000 MW(e) HTGR concept during March through May 1971, 25:48257(R) (GA-10661)
development of 1000 MW(e) HTGR concept during March through May 1970, 24:43697(R) (GA-10088)
development of 1000 MW(e) HTGR concept during Sept. through Nov. 1969, 24:18585(R) (GA-9815)
development of 1000 MW(e) HTGR concept during September through November 1970, 25:28633(R) (GA-10399)
development of 330 MW(e) fast breeder, 24:24796
development of AGR-type, review, 21:15684
development of boilers for, 21:22094
development of British, survey of, 22:14200
development of conceptual fast breeder power, economic and technical criteria for, 23:33030 (WASH-1089)
development of direct cycle gas turbine power, 25:20699
development of direct cycle gas turbine power, analysis of optimum economic, 25:20701
development of direct cycle helium turbine, engineering and materials requirements for, 24:50173 (CONF-700401-, pp 268-90)
development of direct cycle high temperature power, analysis of optimum economic, 24:46008
development of dual purpose process heat and power, for economic iron production in Japan, 24:16266
development of fast breeder, 25:41390
development of fast breeder, 21:19354(R) (GA-6667)
development of fast breeder, 24:16141
development of fast breeder, 25:54013 (A/CONF.49/P-116)
development of fast breeder, 25:1861
development of fast breeder power, problems with, 24:46002
development of fast breeder, component and material requirements for, 22:35466 (KFK-689)
development of fast breeder, operational and economic comparisons with steam cooled and liquid sodium cooled, 24:24797
development of fast breeder, review of, 25:60009 (CONF-710922-5)
development of fast breeder, technical advancements in, 21:46847 (EURFNR-367)
development of fast, conference on systems, materials, and components for, 23:11155 (CONF-680419)
development of fast, review of, 24:43703
development of fast, survey of, 25:51029 (JAERI-13620)
development of German high temperature, commercial and safety aspects of, 23:23864
development of heavy water moderated dual purpose desalination and power, review in U. K. of optimum economic, 24:26820
development of helium cooled fast breeder, technical and economic factors in, 25:39232
development of high temperature, 21:19381(R) (ORNL-4036)
development of high temperature dual purpose desalting and power, analysis of economic and technical possibilities for, 23:37677
development of high temperature fast breeder, technical and economic aspects of, 25:31535
development of high temperature helium cooled, conference on, 24:50068 (CONF-700401)
development of high temperature helium cooled, estimates in England to year 1990 of, 25:54029 (A/CONF.49/P-480)
development of high temperature helium cooled, review of potential for, 24:52857
development of high temperature helium cooled, review of U.K, 24:16136
development of high temperature power and process heat, 25:28794
development of high temperature power, conference on, 23:37448 (STI/PUB-197)
development of high temperature power, problems with, 24:45999
development of high temperature power, review of, 24:18682
development of high temperature power, summary of, 23:13377
development of high temperature, during April to September 1970, 25:48260(R) (ORNL-4637)
development of high temperature, for process heat production, 25:60202
development of high temperature, in France, 25:54037 (A/CONF.49/P-585)
development of high temperature, in Germany, 25:60012 (JUL-775-RG)
development of high temperature, problems associated with, 23:52316
development of high temperature, review of, 24:18605
development of high temperature, review of, 25:18114
development of high temperature, review of, 24:50069 (CONF-700401-, pp 113-41)
development of high temperature, review of worldwide programs for, 25:46238
development of high temperature, status of German program for, 25:5944
development of high temperature, with direct cycle helium turbine, 24:22385
development of high-temperature fast breeder, 21:42728 (KFK-595)
development of high-temperature power, review of U. S, 21:27725
development of HTR type, review of, 24:24790
development of HTR type, review of, 24:24789
development of HTR type, with direct cycle helium turbines, 24:24686
development of large HTGR type, review of U. S, 24:24685
development of Magnox-type, review, 21:15684
development of natural uranium-fueled graphite-moderated, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
development of power, economic potential of, 22:18498
development of power, in United Kingdom, 22:6060
development of power, review of, 22:18494
development of power, review of world-wide, 23:31136
development of power, technical and economic aspects of, 22:18500
development of power, with direct cycle gas turbines, 24:18601
development of thermal high temperature, summary of, 24:9084
development of U. S. advanced, analysis of 1968 to 1974, 23:15567
development of U.K. advanced power, description of, 22:48678
development of U.K. power, review of and predictions for, 23:19469
development of, survey of, 25:51029 (JAERI-13620)
development of, trends in, 25:23238
development potential of high-temperature, 22:39820
development prediction in U.S. during 1970 to 2020, systems analysis for optimum economic, 25:10095 (WASH-1098)
development program for advanced and high-temperature power, description of, 23:11169
development program for aircraft, description of feasible, 22:35581
development program for fast breeder, summary of, 23:23866
development program for Great Britain, description to 1985 of, 22:42231
development program for high temperature power, ORNL April to September 1969, 24:24834(R) (ORNL-4508)
development program for high temperature power, review of ORNL April to September 1968, 23:28486(R) (ORNL-4353)
development program for HTGR, analysis of ORNL April to September 1967, 22:42200(R) (ORNL-4200)
development program for U.K. power, description of, 22:44859
development program in the United Kingdom, 22:6053
development programs for carbon dioxide-cooled heavy water-moderated breeder, description of Czechoslovakian, French, and German, 22:39832

development programs for Europe power, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
development programs for high temperature power, description of, 22:48689
development programs for U.K., U.S.A., and Canada, description of, 22:42212 (TRG-Report-1695)
development programs in U. S, 25:39133 (A/CONF.49/P-833)
development progress for AGR-type, 23:15563
development trends in power, using carbon dioxide coolant, 22:6062
dynamic behavior of, effects of operating conditions on, (T), 23:45134
dynamics characteristics of, computer simulation of transient, 24:31046
dynamics of high temperature power, COSTANZA BBK computer program for one dimensional, 24:24811 (EUR-4410)
economic advantages of British advanced, evaluation of, 22:42211 (TRG-Report-1693)
economic analysis of, tabulated, 22:3839 (NP-16986)
economic and technical evaluation of high temperature, 23:37552 (WASH-1087)
economic aspects in Argentina, 22:3840 (NP-16988)
economic aspects of European high-temperature, 22:6041
economic aspects of fast breeder, in Germany, 25:60013 (KFK-1375)
economic aspects of, for power generation for production of aluminum and aluminum oxides, 23:48381
economic comparison of fast breeder, with sodium cooled and steam cooled concepts, 24:4035
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economics and technology of fast, review of, 23:31147
economics for high temperature dual purpose desalination and power, analysis of optimum, 24:38618 (JUL-656-PA)
economics for iron ore reduction, coal gasification, and petroleum cracking, 25:51213 (JUL-745-RG)
economics in Europe of uranium fueled, 21:44880
economics of 1000 MW(e) high temperature, review of conceptual, 24:11155 (WASH-1085)
economics of dual purpose, for desalination and aluminum production, 24:18750
economics of dual-purpose advanced, 22:42350 (TRG-Report-1691)
economics of fast breeder power, effects of fuel element thermal limits on, 25:5902
economics of fast breeder, (T), 25:57065
economics of fast, effects of fuel element performance on, (T), 25:44131
economics of first-generation high temperature, for use in developing countries, 24:29027
economics of helium cooled fast, comparison with sodium cooled and steam cooled fast reactor of, 24:33356
economics of high temperature helium cooled, for energy supply in iron ore reduction processes, 24:41058 (EUR-4420)
economics of high temperature, capital and fuel cycle cost factors in, 24:29030
economics of high temperature, effects of power density and cooling system pressure increase on, (T), 24:41030 (EUR-4328)
economics of high temperature, in closed cycle gas turbine power and desalination plants, 23:49628
economics of high temperature, in closed cycle gas turbine power and desalination plants, 23:49631
economics of high temperature, in West German power grid, (T), 22:35526
economics of high-temperature, 21:40553 (GA-6881)
economics of high-temperature, for commercial power production, 21:17479
economics of integrated power, effects of design parameters on, 23:28498
economics of natural uranium fueled graphite moderated, in desalination plants, 23:49633
economics of natural uranium-fueled graphite-moderated desalination, for various distillation processes, 23:28596
economics of operation for high-temperature, 21:42733
economics of operation of desalination, 22:18544 (STI/DOC-10/80)
economics of operations of, effects of cross-section uncertainties on,, 22:24973 (ORNL-TM-2157)
economics of power, comparison of various reactor types to, 24:50149
economics of power, comparison with other common reactor types of, 25:20749
economics of power, in Czechoslovakia, 22:50747 (ZJE-26)
economics of power, review of, 21:23655
economics of power, trends in optimization of, 24:24859
economics of power, using helium turbines, (T), 25:1853
economics of, comparison of United States and United Kingdom, 21:46897
economics of, parameters for optimization of, 23:28369
economics with gas turbines and MHD generators, 25:8112
economy of advanced, 21:30172 (TRG-Report-1432)
efficiency of 500 MW(e) graphite-moderated, effect of steam-cycle characteristics on, (T), 22:30144 (EUR-3892)
effluent from, economics of coal decomposition using 1200°C helium, 23:11319 (JUL-554-RG)
effluents from, monitoring of gaseous, 23:33381 (AAEW-M-891)
electric generators for direct cycle, development of hydrostatic gas bearings for, 24:43799
electricity production from, comparison with other reactor types of, 24:16090
electricity production from, evaluation for Austrian, 23:5982
emergency core cooling in high pressure fast, description of intermediate pressure secondary system for, 24:38564(P)
emergency core cooling system for fast breeder, description of melted core, 25:1900(P)
Emergency Core Cooling System for high temperature, description of, 22:32853
emergency core cooling system for, design of carbon dioxide filled aqueous foam, 24:38566(P)
emergency core cooling system for, design of carbon dioxide filled aqueous foam, 24:38567(P)
emergency core cooling system of high temperature power, description of ventilated turbine system for, 24:13555
emergency power supply for power, reliability requirements of, 25:34380
emergency shutdown system for, description of pressure actuated liquid poison, 24:36040(P)
engineered safeguards for high temperature thorium fueled power, design requirements of, 25:1914
environmental contamination from natural uranium-fuel graphite-moderated, 22:16112 (CEA-R-3311)
fabrication in Japan of advanced, problems associated with, 22:42280
failure of plate-type fuel elements in, dynamic pressure limits for, (E/T), 22:42389 (N-68-16227)
feasibility of fast breeder, with high thermal efficiency, 23:52310(T) (JPRS-48330, pp 164-87)
fissile materials control at heavy water-moderated, IAEA safeguards methods for, 23:50100
fission product behavior in HTGR systems, (E/T), 23:40317(R) (GA-8662)
fission product behavior in HTGR systems, (T), 23:43083(R) (GA-9227)
fission product behavior in, high-temperature gas-borne, 21:25689
fission product buildup in, effects on core lifetime of, 22:50762
fission product content in high temperature, use of FISP code for calculation of, 23:52353 (RD/B/N-1428)
fission product deposition in closed cycle helium turbine circuit of, program for analysis of, 24:50100 (CONF-700401-, pp 251-67)
fission product deposition in, iterative solution of model for, 24:47942
fission product distribution in, effects of steam leakage and depressurization on, (E), 25:23313(R) (ORNL-TM-3263)
fission product distribution in, studies of condensable, (E), 21:12235 (GA-6957)
fission product monitoring in high-temperature, 24:37002 (ORNL-4586, pp 87-97)
fission product release and transport in high temperature, (E/T), 25:8050(R) (GA-10288)
fission product release and transport in high temperature, (E/T), 25:28633(R) (GA-10399)
fission product release and transport in high temperature, (E/T), 24:43697(R) (GA-10088)
fission product release and transport in high temperature, (E/T), 25:36977(R) (GA-10501)
fission product release from high temperature, effects on design and operation of limits for, 24:50152 (CONF-700401-, pp 311-60)
fission product release from high temperature, methods for analysis of, 24:50151 (CONF-700401-, pp 293-310)
fission product release in carbon dioxide, in-pile measurements of, 21:31910 (CONF-660904-Vol.1 and 2, pp 52-61)
fission product release in high-temperature power, FIPER-1 computer program for, 22:50729 (GA-8564)
fission product release in HTGR-type metal fuel elements for, testing of FREVAP-8 computer program for, (E/T), 23:4247
fission product transport and deposition in, calculational techniques for convective, 22:46915 (ORNL-TM-2218)
fission product transport in high temperature, (E/T), 24:26752 (GA-10073)
fission products from, release of gaseous, 25:1915
fluid systems for fission—electric cell space, design of, 21:35647 (N-67-19877)
fuel assemblies for fast, water flooding safety system for, 22:16244(P)
fuel assemblies for graphite-moderated, description of suspended central control rod for bottom-supported vertical multiple, 22:53328(P)
fuel assemblies for high-temperature, description of hexagonal-shaped sleeve-covered columnar moderator block with multiple parallel symmetrically-arranged, 22:48671(P)
fuel assemblies for, description of grid-supported thermal-insulated multiple parallel clad rod-type, 22:42273(P)
fuel assemblies for, description of multiple parallel vertical-sheathed, 22:42257(P)
fuel assemblies for, description of sleeve-insulated, 22:35515(P)
fuel assemblies for, description of spigot ring supported parallel tie-rod spaced pencil type, 24:4062(P)
fuel assemblies for, description of uranium oxide (UO_2) multi-rod, 22:25045(P)
fuel assemblies for, description of vertical-sheathed bottom-plugged reflected tubular, 22:42260(P)
fuel assemblies of, static aeroelasticity of spacer grids for, (T), 23:43121
fuel assembly design for, 21:10229(P)
fuel assembly of, Monte Carlo method for axial power distribution in cluster, 22:22872
fuel blanket for 1000 MW(e) high-temperature power, analysis of optimum thorium-232, 23:21485 (ORNL-TM-2477)
fuel burnup in advanced, methods for calculating, 21:35541 (AEEW-M-740)
fuel burnup in graphite-moderated power, analysis of fuel cycle management for optimum, 22:53291
fuel burnup in heavy water-moderated power A2, effects of plutonium-239 and plutonium-240 concentrations on thermal and epithermal spectra and, (T), 23:11186 (UJV-2027)
fuel burnup in Mark 3, effects of core configuration and core management on, (T), 24:31069 (RD/B/N-1550)
fuel cans for, effects of fabrication on grain size of AL80, 21:4921
fuel channels of, design of device to control gas flow in, 22:10466(P)
fuel cladding failures in, description of multiple delayed neutron detectors and electrostatic collectors for detection of, 23:9185(P)
fuel cladding for carbon dioxide-cooled, effects of metallic coatings on corrosion protection of zirconium and zirconium alloy, 23:17281 (CEA-R-3612)
fuel cladding for heavy water-moderated power, tangential elongation testing of beryllium, 22:15218
fuel cladding for high-temperature, development of materials for, 25:19179
fuel cladding in, use of copper—zirconium-base alloy for, 23:33931
fuel cladding ruptures in, development of system for detecting, 24:9706 (CEA-CONF-1366)
fuel cladding temperature in graphite-moderated, description of aluminum oxide-insulated gas-cleaned thermocouple connections for measuring, 23:11246(P)
fuel clusters of, effect of gas mixing on heat transfer in, 23:26450
fuel cycle characteristics of high temperature power, analysis of optimum economic, 23:28487 (ORNL-4353, pp 1-109)
fuel cycle characteristics of high-temperature, 21:5614 (GA-7276)
fuel cycle costs for French, total, 23:15638 (CEA-CONF-1093)
fuel cycle costs for high temperature, 23:4219 (ORNL-TM-2173)
fuel cycle costs for high temperature advanced converters, review of, 23:43079 (CONF-670338, pp 197-214)
fuel cycle development for, 24:41396(R) (ORNL-TM-3112)
fuel cycle development for, 24:41395(R) (ORNL-TM-3088)
fuel cycle development for, thorium, 24:9436(R) (ORNL-TM-2792)
fuel cycle development for, thorium, 24:9437(R) (ORNL-TM-2846)
fuel cycle development for, thorium, 24:19052(R) (ORNL-TM-2886)
fuel cycle economics for, 21:38463(R) (ORNL-4133)
fuel cycle economics for beryllium oxide-moderated high-temperature pebble-bed, 21:45188 (AAEC/E-175)
fuel cycle economics for graphite moderated high temperature power, 24:11139
fuel cycle economics for high temperature, 22:46911(R) (ORNL-4266)
fuel cycle economics for high-temperature power, 21:38505
fuel cycle economics for high-temperature, role of reprocessing BISO-coated particles in, 25:41907
fuel cycle economics for large high-temperature, 21:40553 (GA-6881)
fuel cycle economics in Argentina, methods of calculation of, 22:3931 (NP-16987)
fuel cycle economics of, 21:30110 (CNEA-183)
fuel cycle economics of graphite moderated natural uranium, 22:24982
fuel cycle for 1000 MW(e) high temperature, calculation of optimum economic, 24:5501 (ORNL-TM-2704)
fuel cycle for high temperature power, analysis of optimum economic, 23:37516
fuel cycle for high temperature power, comparison of design studies for optimum, 23:37508
fuel cycle for high temperature power, development of thorium, 25:1891
fuel cycle for high temperature power, process development for optimum economic, 23:37513
fuel cycle for high temperature, analysis of optimum economic, 23:49563 (CONF-681219-2)
fuel cycle for high temperature, characteristics and cost analysis of, 24:16197
fuel cycle for high temperature, development of thorium, 25:1890
fuel cycle for high temperature, economics of, 21:44830(R) (GA-7396)
fuel cycle for high temperature, economics of thorium—uranium-233, (T), 25:20746 (JUL-644-RG)
fuel cycle for high temperature, statistical analysis of optimum economic, 25:6024
fuel cycle for HTGR type, economics of, 24:31078 (CONF-700502-, pp 2-11)
fuel cycle for HTGR type, evaluation of low enrichment uranium, (E/T), 23:43083(R) (GA-9227)
fuel cycle for HTGR, economics of, 24:31065 (CONF-700502-, pp 31-48)
fuel cycle for HTGR-type, computer program for optimum, 23:4244
fuel cycle for power, calculation of optimum economic, 25:54134 (A/CONF.49/P-497)
fuel cycle for U.K. high temperature, comparison with AGR type and Magnox reactor design parameters for optimum, 23:37518
fuel cycle for, analysis of optimum thorium, 22:35492
fuel cycle for, economic analysis of, 23:28369
fuel cycle for, summary of time schedules and economics of, 23:13381
fuel cycle in U. K. of 1000 MW(e) power thermal, analysis of performance for, 22:46909 (NP-17599, pp 30-40)
fuel cycle management for 1000 MW(e) HTGR-type, analysis of optimum, 23:4165(R) (GA-7553)
fuel cycle management for 1000 MW(e) HTGR-type, analysis of optimum, 23:4168(R) (GA-7981)
fuel cycle management for conceptual 640 MW(e) prismatic core, 25:54130 (A/CONF.49/P-346)

fuel cycle management in, information theory applications to, 24:16087
fuel cycle managment for 1000 MW(e) HTGR-type, analysis of optimum, 23:4166(R) (GA-7801)
fuel cycle performance potential of helium cooled fast breeder, comparison of sodium cooled reactor with, 24:24841
fuel cycle physics measurements for high-temperature, 21:42733
fuel cycles for high temperature, comparison of thorium, plutonium, and low-enrichment uranium, 24:50143 (CONF-700401-, pp 694-709)
fuel cycles for high temperature, comparison of various thorium, (T), 25:3884 (DP-Report-469)
fuel cycles for high temperature, development of thorium—uranium, 25:31586
fuel cycles for high temperature, development of thorium—uranium, 25:39269 (A/CONF.49/P-837)
fuel cycles for high temperature, development of thorium—uranium-233, 25:48260(R) (ORNL-4637)
fuel cycles for high temperature, economic parameters of low enrichment, 24:50141 (CONF-700401-, pp 649-70)
fuel cycles for high temperature, economics of high conversion thorium, (T), 25:6051 (DP-Report-434)
fuel cycles for high temperature, economics of high enriched and low enriched uranium, 25:54131 (A/CONF.49/P-389)
fuel cycles for high temperature, economics of plutonium, 24:40996 (DP-Report-265)
fuel cycles for high temperature, economics of plutonium, 25:60097 (ORNL-TM-3525)
fuel cycles for high temperature, economics of thorium—uranium, (T), 24:43774 (DP-Report-211)
fuel cycles for high temperature, economics of thorium with uranium-233 recycle in, 24:50144 (CONF-700401-, pp 710-25)
fuel cycles for high temperature, economics of uranium-235 and thorium, 24:46064 (DP-Report-336)
fuel cycles for high temperature, effects of heavy isotope buildup on, (T), 25:41450
fuel cycles for high temperature, effects of plutonium use on economics of, (T), 25:41449
fuel cycles for high temperature, fuel element design effects on economics of, 24:50145 (CONF-700401-, pp 726-53)
fuel cycles for high temperature, fuel element design effects on economics of, 24:50142 (CONF-700401-, pp 671-93)
fuel cycles for high temperature, optimization of thorium—uranium, 24:52945 (DP-Report-286)
fuel cycles for high temperature, optimization of plutonium, 24:46063 (DP-Report-335)
fuel cycles for high temperature, parametric analysis of low enriched uranium, 25:3883 (DP-Report-466)
fuel cycles for high-temperature, 21:15794
fuel cycles for high-temperature helium-cooled, 21:17447 (GA-7482)
fuel cycles for homogeneous and heterogeneous high temperature power, analysis of optimum economic, 23:37517
fuel cycles for off-load refueled, HELTOT program system for thorium—uranium-235, 25:6052 (DP-Report-440)
fuel cycles for power, market estimates in U.S. for thorium, 25:48252 (CONF-680989-, pp 23-6)
fuel cycles for, beryllium oxide moderated high-temperature, 21:1192
fuel cycles for, description of optimum uranium-233, 22:35497
fuel cycles for, economics of, 23:40372
fuel cycles for, effects of uranium-233 recycle on, (T), 25:6057
fuel cycles for, effects of uranium-233 recycle on, (T), 25:6056
fuel cycles in high temperature, effects of radial power distribution on, (T), 24:43776 (DP-Report-418)
fuel cycles of advanced power, factors affecting economics of approach to equilibrium in, 24:11130
fuel development for high-temperature, 23:8292
fuel element assemblies for 1000 MW(e) high temperature, design parameters of, 24:52852 (GA-9400(Vol.1))
fuel element assemblies for high temperature graphite moderated, description of end connected multiple section graphite sleeve cluster type, 24:26780(P)
fuel element assemblies for, COMIX 1, 2, and 3 computer programs for optimum hot channel temperatures with transverse coolant mixing in, 23:19496(T) (EURFNR-584)
fuel element assemblies for, coupling device for, 21:5654(P)
fuel element assemblies for, description of vented pin type bundle, 25:28694(P)
fuel element assemblies for, design with heat-insulating and vibration-absorbing material, 21:19439(P)
fuel element assemblies for, effects of rod arrangement on temperature distribution in, (T), 25:46156 (ZJE-100)
fuel element assemblies for, fluid dynamic and heat transfer characteristics of 7 element rod type cluster arranged, (E), 24:26774 (ORNL-4356)
fuel element assemblies for, Freon simulation of coolant mixing in and behind, (E), 25:48265 (ZJE-103)
fuel element assemblies of, effects of rod pitch on burnout power and pressure drop in Freon-12 cooled 7 rod clusters, 24:24832 (AEEW-R-655)
fuel element assembly for fast, description of six-fin interlocking, 23:6011(P)
fuel element assembly for, design parameters for on-load refueled granule filled tube shaped, 24:5531(P)
fuel element assembly of, design of spacer fins for, 22:1836(P)
fuel element behavior in high-temperature, in accidents with steam entering core, 22:27490 (ORNL-4229, pp 149-55)
fuel element box deformation in fast, calculations of, 25:51102
fuel element bundles in fast, heat transfer and fluid flow in, (E/T), 25:60059 (CONF-710606-14)
fuel element cans for, design of magnesium—zirconium alloy, 22:1840(P)
fuel element cans for, heat transfer and friction coefficients at 1000°C for walls of, (E/T), 22:7856
fuel element cans for, heat transfer and pressure drop along herringbone finned, (E), 22:7853
fuel element cans for, heat transfer and pressure drop along herringbone finned, (T), 22:7851
fuel element cans for, helium convective heat transfer correlations for, (E/T), 22:7855
fuel element cans for, high performance heat transfer surface development for, (E), 22:7852
fuel element cans for, performance of roughened heat transfer surfaces of, (E/T), 22:7854
fuel element cladding corrosion in, 21:31993(P)
fuel element cladding defects in, detection of, 21:35779
fuel element cladding failure detection in, design of γ radiation monitoring system for, 24:36039
fuel element cladding for carbon dioxide cooled, description of copper—nickel alloy or nickel, 23:37551(P)
fuel element cladding for carbon dioxide, oxidation of beryllium—copper alloy, 23:52360(P)
fuel element cladding for carbon dioxide-cooled, fabrication of coated iron- or nickel-base alloy, 22:42281(P)
fuel element cladding for graphite moderated power, effects on heat transfer of herringbone pattern fins on cylinder shaped, (E), 24:43752 (CEA-N-1329)
fuel element cladding for natural uranium fueled graphite moderated, effects of fin configuration on optimum heat transfer of tube shaped, (E/T), 24:20568 (JUL-618-RB)
fuel element cycle management for 1000 MW(e) reference design high temperature, calculation of optimum economic, 24:38491 (DP-Report-135(Pt.3))
fuel element cycle management for 1000 MW(e) reference design high temperature, calculation of optimum economic, 24:38539 (DP-Report-135(Pt.4))
fuel element cycle management for fast power, calculation of optimum economic blanket, (T), 24:50093
fuel element cycle management for high temperature power, calculation of optimum economic low enrichment uranium, 25:8076 (GA-9715)
fuel element debris receptacles for, with means for securing in place by coolant flow, 25:12769(P)
fuel element design for, 21:10191(P)
fuel element design for, 21:27843(P)
fuel element design for high temperature, clustered elongated pin-type, 22:12156(P)
fuel element design for high-temperature, effects on reprocessing costs of changes in, 23:17513 (GAMD-9089)
fuel element design for, to prevent diffusion of plutonium, 21:5660(P)
fuel element design for, with central purge gas system, 21:8168(P)
fuel element design with improved heat transfer properties, 21:38793(P)
fuel element development and testing for fast breeder, during November 1968 to January 1969, 23:45083(R) (GA-9229)
fuel element development for, 22:725 (BMI-1809, Sect.E)
fuel element development for high temperature, 21:38463(R) (ORNL-4133)
fuel element fabrication costs for low-enrichment high-temperature concept Dragon Project, 22:48654 (ORNL-TM-2241)
fuel element failure detection for high temperature, fission product activity release monitoring method for, 25:15373 (AERE-R-6475)
fuel element failure detection in, hot gas type detector for, 25:23419
fuel element failure detection methods for, 23:40294
fuel element failure detector for, description of, 22:6050(P)
fuel element failure detector for, design of, 23:37547(P)
fuel element failure in carbon dioxide, detection of, 22:1885
fuel element failure in U.K. power, performance of detection system for, 24:4018
fuel element failure monitoring system for, design of scintillation detector, 23:35476(P)
fuel element failures in, detection methods for, 23:4477
fuel element failures in, fission product release from, (E), 25:31608
fuel element for 1000 MW(e) fast breeder, fabrication and irradiation testing of Hastelloy X-clad uranium oxide (UO_2) pellet-type, 23:7389(R) (GA-7645)
fuel element for graphite-moderated, description of annular, 22:42264(P)
fuel element for, design of grooved, 21:46927(P)
fuel element loading installation for, design of pressure vessel enclosed, 25:23417(P)
fuel element performance in 1000 MW(e) fast, effects of partial surface roughening on optimum heat transfer, (T), 22:50728 (GA-8268)
fuel element position indicator for on-load refueling in, development of γ monitoring, 24:46058 (PG-Report-971)
fuel element radiation damage in fast, 22:26093 (ORNL-4229, pp 125-41)
fuel element removal apparatus for, design of, 21:5731(P)
fuel element roughness in, effects on performance of, 21:38491
fuel element shipping costs for high-temperature, to 1000-mile distances, 22:2321 (GAMD-7979)
fuel element shock absorbers for heavy water moderated power, description of stress failing flared sleeve, 23:45090(P)
fuel element spacer grid for, static aeroelasticity of, (E/T), 24:2002
fuel element standpipes for, description of pressure equalizing locking plugs for, 25:54107(P)
fuel element storage in deactivation pools for, corrosion of magnesium alloy coating during, 21:14797
fuel element surface temperature in, determination of safety factor for, (T), 23:52387(T) (JPRS-48331, pp 658-91)
fuel elements design for, with concentric graphite sleeves separated by longitudinal graphite fins, 21:38622(P)
fuel elements for 1000 MW(e) HTGR-type, effects of pressure and temperature on performance of laminar carbon- and silicon carbide (SiC)-coated particle-type uranium carbide (UC_2), 23:13412(R) (GA-8530)
fuel elements for advanced, hazard ratings for fission products released from irradiated, 22:51572 (RD/B/N-1143)
fuel elements for advanced, performance data for, 22:46938
fuel elements for breeder, development of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:41431
fuel elements for carbon dioxide, development of cladding for, 21:39573(P)
fuel elements for fast breeder power, development during July 1966 to July 1967 of, 23:17188(R) (GA-8107)
fuel elements for fast breeder power, development during August 1967 to July 1968, 23:45082(R) (GA-8787)
fuel elements for fast breeder, radiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 25:44125 (ORNL-TM-3427)
fuel elements for fast power, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 24:24836 (ORNL-4508, pp 71-112)
fuel elements for fast power, radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 23:28488 (ORNL-4353, pp 111-39)
fuel elements for fast, design of, 21:38463(R) (ORNL-4133)
fuel elements for fast, design parameters of, (T), 25:5998
fuel elements for fast, effects of surface roughening on performance of, 22:5939
fuel elements for fast, irradiation testing of, 24:4061 (ORNL-4424, pp 75-98)
fuel elements for fast, pressure equalization system for, (E), 25:51100
fuel elements for fast, radiation testing of, 21:38486
fuel elements for fast, radiation testing of Type 316 stainless steel and Hastelloy X clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pin type, 24:33312
fuel elements for graphite moderated power, design modifications in France for, 25:3877
fuel elements for graphite moderated power, optimum economic operating limits in France for, 25:3878
fuel elements for graphite moderated, analysis of heat transfer and pressure losses from, 22:1767 (JUL-486-RB)
fuel elements for graphite moderated, description of radial spring bristles for vibration prevention in, 25:34374(P)
fuel elements for graphite moderated, description of outer magnesium alloy clad chevron finned inner zirconium alloy clad annular, 23:37550(P)
fuel elements for graphite moderated, description of annular metal brush seal stabilizer for stringer type, 25:1893(P)
fuel elements for graphite-moderated, description of flow-diverting multiple interlocking-sleeve on-load refueling, 22:53327(P)
fuel elements for heavy water moderated, heat transfer characteristics of smooth and finned rod type, 25:41414 (ZJE-98)
fuel elements for heavy water-moderated, fabrication of silicon oxide (SiO_2)—uranium oxide (UO_2) cylindrical rod, 22:30262
fuel elements for helium cooled fast, development of metal clad mixed plutonium oxide (PuO_2)—uranium oxide (UO_2), 24:50120 (CONF-700401-, pp 864-78)
fuel elements for helium cooled fast, performance of vanadium alloy clad, 24:50119 (CONF-700401-, pp 854-63)
fuel elements for helium-cooled, in-pile heat transfer measurements on roughened, 22:22725
fuel elements for high temperature power, development of ceramic coated uranium oxide (UO_2) particle type, 23:37521
fuel elements for high temperature power, development and irradiation testing of, 24:24835 (ORNL-4508, pp 3-70)
fuel elements for high temperature power, fission product release from heated, 23:33066(R) (ORNL-4374)
fuel elements for high temperature power, fission product release from failed, 24:22431(R) (ORNL-4511)
fuel elements for high temperature power, FREVAP 8 computer program for release of metallic fission products from, 23:28413 (GA-8476)
fuel elements for high temperature power, radiation effects on bonded bed pyrolytic carbon coated uranium oxide (UO_2) and uranium carbide (UC_2) particle type, 23:28487 (ORNL-4353, pp 1-109)
fuel elements for high temperature throium-232 Doppler coefficient measurements in, 23:4228
fuel elements for high temperature, BLOOST-6 computer program for thermodynamics calculations for, 21:46965 (GAMD-8119)
fuel elements for high temperature, computer program for estimating fission product release from, 23:9184 (GAMD-7629)
fuel elements for high temperature, conversion ratios for, 21:38463(R) (ORNL-4133)
fuel elements for high temperature, design effects on reprocessing of, 21:44830(R) (GA-7396)
fuel elements for high temperature, design of, 24:31065 (CONF-700502-, pp 31-48)

fuel elements for high temperature, design of, 21:35640(P)
fuel elements for high temperature, design of prismatic, 24:50110 (CONF-700401-, pp 474-93)
fuel elements for high temperature, development and irradiation testing of, 24:4060 (ORNL-4424, pp 3-72)
fuel elements for high temperature, development and irradiation testing of, 25:48260(R) (ORNL-4637)
fuel elements for high temperature, development and irradiation testing of, 25:5990(R) (ORNL-4589)
fuel elements for high temperature, development of fabriction methods for, 25:54087 (A/CONF.49/P-494)
fuel elements for high temperature, development of bonded coated particle beds for, 24:50109 (CONF-700401-, pp 456-73)
fuel elements for high temperature, economics of on-site storage of, 21:46852 (GAMD-7994)
fuel elements for high temperature, effects of coolant moisture content on graphite loss from, (T), 24:50078
fuel elements for high temperature, effects of transverse flow on fission gas transport through, (E/T), 25:6011
fuel elements for high temperature, fabrication and irradiation testing of recycle, (E), 24:43697(R) (GA-10088)
fuel elements for high temperature, fabrication and irradiation testing of recycle, (E/T), 25:8050(R) (GA-10288)
fuel elements for high temperature, fabrication and irradiation testing of recycle, (E/T), 25:28633(R) (GA-10399)
fuel elements for high temperature, fabrication and irradiation testing of recycle, (E/T), 25:36977(R) (GA-10501)
fuel elements for high temperature, fabrication and irradiation testing of recycle, 25:48257(R) (GA-10661)
fuel elements for high temperature, fabrication of, 25:6005
fuel elements for high temperature, fission gas release from, (E), 25:6009
fuel elements for high temperature, fission gas release from, (E), 25:6010
fuel elements for high temperature, fission product release from, 22:1772(R) (ORNL-TM-1986)
fuel elements for high temperature, fission product retention times for, (E/T), 24:41008 (DP-Report-416)
fuel elements for high temperature, FREVAP-9 code for calculation of fission product release from, 23:15642 (GAMD-8813)
fuel elements for high temperature, heat transfer and pressure drop in internally cooled annular, (T), 25:5979 (DP-Report-435)
fuel elements for high temperature, methods for long-term storage of spent, (T), 25:20745 (DP-Report-450)
fuel elements for high temperature, optimum economic design parameters for pin type, 25:54088 (A/CONF.49/P-495)
fuel elements for high temperature, performance during irradiation of, 22:46911(R) (ORNL-4266)
fuel elements for high temperature, plant designs and costs for reprocessing, 25:8050(R) (GA-10288)
fuel elements for high temperature, plant designs and costs for reprocessing, 25:28633(R) (GA-10399)
fuel elements for high temperature, plant designs and costs for reprocessing, 25:36977(R) (GA-10501)
fuel elements for high temperature, plant designs and costs for reprocessing, 25:48257(R) (GA-10661)
fuel elements for high temperature, plant designs and costs for reprocessing, 24:43697(R) (GA-10088)
fuel elements for high temperature, radiation testing of graphite matrix BISO and TRISO coated particle, 24:33327
fuel elements for high temperature, radiation testing of graphite matrix BISO and TRISO coated particle, 24:33328
fuel elements for high temperature, results of in-pile oxidation of, 22:27416(R) (ORNL-4228)
fuel elements for high-temperature, description of, 21:40622
fuel elements for high-temperature, description of multiple coated polyhedral-shaped particles in Zircaloy-clad annular-shaped, 23:9162(P)
fuel elements for high-temperature, design and preparation of, 21:35641(P)
fuel elements for high-temperature, design of, 22:14659(P)
fuel elements for high-temperature, fabrication and properties of sintered beryllium oxide (BeO) for use as moderator, fuel matrix, and fission-product-retentive coating in ceramic dispersion-type spherical, 23:9152 (AAEC/E-193)
fuel elements for homogeneous high temperature, performance requirements for, 24:50112 (CONF-700401-, pp 518-46)
fuel elements for HTGR type, fast neutron radiation effects on BISO and TRISO coated ceramic particle graphite matrix, 24:29012 (GA-10012)
fuel elements for Latina-type, fabrication of uranium coated, 21:44910(P)
fuel elements for, analysis of turbulent heat transfer in simulated concentric annulus, 23:26051
fuel elements for, annular graphite centering sheath for finned, 25:23291(P)
fuel elements for, basic factors in design of, 22:6044
fuel elements for, bonding of coated particles for, 22:46911(R) (ORNL-4266)
fuel elements for, computer program for estimation of effects of time on creep deformation of Hastelloy X- and Type 316 stainless steel-clad, 23:51033 (GAMD-9623)
fuel elements for, description of, 22:18619(P)
fuel elements for, description of finned tubular uranium, 22:14217(P)
fuel elements for, description of multiple-fin dual-layer Magnox-sheathed uranium, 22:42545(P)
fuel elements for, description of perforated tapered annular tube particle type, 25:12800(P)
fuel elements for, description of vanadium clad pin, chrome cermet, and ceramic coated particle, 23:28368
fuel elements for, description of vibration resistant stringer type, 24:52925(P)
fuel elements for, design of ceramic, 22:12508(P)
fuel elements for, design of ceramic, 22:12509(P)
fuel elements for, design of pressure tube, 21:38813(P)
fuel elements for, design with interior mechanical reinforcement, 21:38812(P)
fuel elements for, detection of cracks in cladding of, 25:48238
fuel elements for, development and fabrication of bonded beds of graphite-coated particles for, 24:32489
fuel elements for, development in Italy of, 25:53889 (A/CONF.49/P-188)
fuel elements for, development of electrically heated mockups of finned, 25:15410 (ZJE-92)
fuel elements for, development of method for production of carbide, 25:2771 (ORNL-4570, pp 161-9)
fuel elements for, developments in, 21:5996(R) (ORNL-4001)
fuel elements for, economic aspects of fabrication, packaging, and storage of, 23:48347 (GAMD-9367)
fuel elements for, effects of surface shape on performance of, (T), 25:26000
fuel elements for, efficiency of stainless-steel-clad urania, 21:30172 (TRG-Report-1432)
fuel elements for, fabrication of components for, 22:11040(P)
fuel elements for, fabrication of thin foil clad uranium, 22:20865(P)
fuel elements for, head-end facility design for reprocessing, 21:144 (GA-7107)
fuel elements for, heat transfer characteristics and temperature distributions for vitreous-ceramic, 22:46899 (IFA-TR-55)
fuel elements for, HOTSPOT computer program for heat transfer in rod cluster, 24:31058 (TRG-Report-1961)
fuel elements for, in-pile heat-transfer studies on roughened, 22:5941
fuel elements for, method for fabrication of, 25:58355(P)
fuel elements for, method of failure detection for, 22:25052(P)
fuel elements for, optimal design of longitudinally finned, 22:16320 (UJV-1840)
fuel elements for, performance of boron carbide and boronated graphite, 21:30291
fuel elements for, performance of methods for detection of failures of, (T), 25:34378(T) (JPRS-53069, pp 131-8)
fuel elements for, possibility of using direct venting devices on, 21:21919 (ORNL-4076, pp 81-115)
fuel elements for, preparation of, 22:8718(P)
fuel elements for, pressure balance closures for vented, 25:48358
fuel elements for, reprocessing of, 24:294
fuel elements for, thermal calculations for tubular, 22:16319 (UJV-1839)
fuel elements for, thermal parameter calculations for smooth and longitudinally-finned concentric tube, (T), 23:9160 (UJV-2023-R)
fuel elements for, with fission product trap, design of high temperature graphite jacketed, 21:38621(P)
fuel elements for, with means for prevention of vibrations, 25:60084(P)
fuel elements in France of, methods of detection of rupture of, 23:13447 (NP-17751)
fuel elements in helium, effects of roughened surface on heat transfer from, 21:40678 (ORNL-P-3202)
fuel elements of 1100 MW(e) HTGR type, testing programs in Peach Bottom Power Reactor Unit 1 for fast neutron radiation effects on BISO and TRISO coated ceramic particle, 24:28857 (GA-10065)
fuel elements of fast breeder power, pressure equalization system for, 25:6019
fuel elements of fast, irradiation testing program in ORR for manifold vented plutonium oxide (PuO_2)—uranium oxide (UO_2) rod type, 24:26771 (GA-9896)
fuel elements of graphite moderated power, failure in France of cladding of, 25:3879
fuel elements of graphite moderated, description of annular spacer for cluster arranged, 24:26781(P)
fuel elements of heavy water moderated power, PBS-1 computer program for burnup calculations of cluster type, 24:46052
fuel elements of high temperature pebble bed power, calculation of statistical temperature distribution in, (E/T), 24:11323
fuel elements of high temperature power, thorium-232 reactivity worth and Doppler coefficient in, 24:7137
fuel elements of high temperature, effects of temperature on fission product release in, 24:4076(R) (ORNL-TM-2425)
fuel elements of high temperature, effects of temperature on fission product release in, 24:4075(R) (ORNL-TM-2368)
fuel elements of power, description of rotation engaged lugs of tube and sleeve coupling system for, 24:24838(P)
fuel elements of, description of coolant flow levitation resistant stringer type, 24:24837(P)
fuel elements of, foil activation method for calibration factor of fast fission ratio measurements in, (E), 25:8052 (AEEW-M-975)
fuel elements of, performance uranium tube, 25:54091 (A/CONF.49/P-608)
fuel elements of, static aeroelasticity of spacers for, (E/T), 24:11194
fuel fabrication for high-temperature, economics of recycle uranium-233 in, 24:30017 (CONF-700502-, pp 281-309)
fuel fabrication for, economic aspects and flowsheets for recycle, 24:1080 (GAMD-9478)
fuel failure simulation of, fission product dispersion from, 21:40571(R) (ORNL-TM-1913)
fuel flow in, vortex breakdown in, 22:244
fuel for, burnup analysis at 1250 to 1400°C of small sphere, 22:22688 (GA-7549)
fuel inserts for, disintegration method for, 22:35888
fuel loading machine for heterogeneous, description of pressure vessel enclosed rotating arm, 22:20872(P)
fuel loading system of fast breeder, design parameters for, 24:18611
fuel loadings and cycle times for high temperature, effects on materials balances of, 22:32810
fuel management for advanced, calculation of optimum cycles for, (E/T), 22:22778
fuel management for high-temperature, effects of partial-recycle technique on optimum economic, 23:15641 (GAMD-7284)
fuel management system for advanced, calculation of optimum equilibrium cycle for, (E/T), 22:22779
fuel particle performance for high-temperature, effects of irradiation-induced pyrolytic-carbon creep on, (T), 21:34174
fuel particles and geometries for advanced, description of increased rating-type, 23:31147
fuel particles for advanced high temperature, steam oxidation of bonded pyrolytic carbon coated, 22:42201 (ORNL-4269)
fuel particles for fast, operating limits for graphite and silicon carbide coated plutonium oxide and silicon carbide coated plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:3875 (EURFNR-834)
fuel particles for high temperature, fission product diffusion in coatings of, (E/T), 25:51097 (JUL-752-RG)
fuel particles for high temperature, properties of, 25:18144
fuel particles for, design and performance criteria for pyrolytic carbon-coated ceramic, 22:24957 (GA-7698)
fuel particles for, equipment and methods for measurement of fission product release from pyrolytic carbon coated, (E), 25:25984 (JUL-707-RW)
fuel particles for, fission product release by coated, (E), 25:23313(R) (ORNL-TM-3263)
fuel pellets for, fabrication and microstructure of plutonium dioxide—uranium dioxide, 21:32951(R) (BMI-1798)
fuel performance in mixtures of steam and helium for, 24:36356 (ORNL-4586, pp 98-117)
fuel production for high-temperature, trial, 25:49525
fuel recycle development program for, 24:33760(R) (ORNL-TM-3015)
fuel recycle development program for HTGR-type, analysis of economics and technology of, 23:2034 (ORNL-TM-2377)
fuel recycle for high temperature power, analysis of optimum economic of, 23:45052(R) (GA-9090)
fuel recycle for HTGR type, 24:28987(R) (GA-9944)
fuel recycle for HTGR type, 24:18585(R) (GA-9815)
fuel recycle for HTGR, facility design and economics, 23:29982 (GAMD-9145)
fuel recycle for HTGR, research development in, 24:48149(R) (ORNL-TM-3124)
fuel recycle in HTGR type, reprocessing methods for, (E/T), 23:43083(R) (GA-9227)
fuel recycle in HTGR type, reprocessing methods for, 23:40317(R) (GA-8662)
fuel recycle program for high temperature, development in U.S. of, 25:48261 (ORNL-4702)
fuel recycle schedule for HTGR-type, analysis of optimum economic, 23:15600(R) (GA-8860)
fuel recycles for high temperature power, analysis of optimum economic reprocessing methods of, 24:4026(R) (GA-9660)
fuel recycling in, neutron loss reduction for uranium, 21:27672 (GAMD-4583)
fuel reprocessing for 1000 MW(e) HTGR-type, economics of, 23:4165(R) (GA-7553)
fuel reprocessing for 1000 MW(e) HTGR-type, economics of, 23:4166(R) (GA-7801)
fuel reprocessing for 1000 MW(e) HTGR-type, economics of, 23:4168(R) (GA-7981)
fuel reprocessing for high-temperature, 25:34690(R) (IN-1457)
fuel reprocessing for high-temperature, economics of, 22:42812 (GAMD-8458)
fuel reprocessing for high-temperature, head-end process in, 23:4711 (GAMD-7294)
fuel reprocessing for, development of head-end methods in, 25:54714 (ORNL-4682, pp 80-94)
fuel reprocessing for, equipment and methods in TURF for, 23:16511 (ORNL-4275, pp 57-87)
fuel reprocessing studies for, silicon carbide coatings depositions for, 22:46911(R) (ORNL-4266)
fuel reprocessing study for 10,000-MW(t) high-temperature, 22:23092 (CONF-660524-, pp 617-45)
fuel requirements for high temperature power, calculation of 1970 to 1995, 23:37511
fuel rod assemblies for fast breeder, effects of coolant flow blockage on failure propagation in, 25:41437
fuel rod development and testing for fast breeder, Aug.—Oct. 1968, 23:15640(R) (GA-8895)
fuel rods for fast, effects of surface roughening on heat transfer characteristics of, (T), 25:28696
fuel rods for power, fabrication of central-insulated molded molten metallic, 22:44848(P)
fuel storage for, equipment and methods for dry, 21:41189
fuel supply for, summary of uranium requirements, economics, and reserves for, 23:13381
fuel tubes for high temperature, calculation of stresses in graphite, (E/T), 25:57051
fuel-cycle costs for 1000 MW(e) fast breeder, (T), 22:27413 (GA-8032)
fuel-cycle economics for unclad urania-graphite, 21:30161 (ORNL-TM-1789)
fuels and fuel cycles for high temperature, analysis of, 22:32810

fuels for 1000 MW(e) high-temperature fast breeder, physics parameters for plutonium oxide (PuO_2)—uranium oxide (UO_2) and plutonium carbide (PuC)—uranium carbide (UC), 23:11238 (EURFNR-580)
fuels for Australian 200-MW(e) pebble-bed, use of beryllia in, 21:14038
fuels for fast, performance analysis of coated particle, 22:42215
fuels for helium cooled breeder, development of coated particle, 24:50118 (CONF-700401-, pp 833-53)
fuels for helium-cooled, direct cooling method for, 25:57645
fuels for high temperature helium cooled, fission product release from, (E/T), 24:40979 (DP-Report-105)
fuels for high temperature power, analysis of economics for plutonium, 23:37514
fuels for high temperature power, computer program for burnup calculations for coated particles, 25:57021 (JAERI-Memo-4449)
fuels for high temperature power, fission product release from failed particle type, 25:34392(R) (ORNL-4647)
fuels for high temperature, development and irradiation testing of coated particle, 25:48260(R) (ORNL-4637)
fuels for high temperature, development in Germany of, 24:50114 (CONF-700401-, pp 586-97)
fuels for high temperature, development of carbon coated particle type, 25:23290
fuels for high temperature, development of coated particle, 25:10166 (GA-10265)
fuels for high temperature, fabrication of graphite shell particle type, 25:37023(P)
fuels for high temperature, irradiation testing of coated particle, 24:4060 (ORNL-4424, pp 3-72)
fuels for high temperature, irradiation testing of coated particle, 25:5990(R) (ORNL-4589)
fuels for high temperature, irradiation testing of bonded bed coated particle, 24:24835 (ORNL-4508, pp 3-70)
fuels for high temperature, irradiation testing of coated particle, 25:6008
fuels for high temperature, preparation and properties of coated particle, 24:50113 (CONF-700401-, pp 547-85)
fuels for high temperature, preparation of coated particle, 25:39228 (NP-18809, pp 2.1-14)
fuels for high temperature, program in Belgium for development of, 25:54084 (A/CONF.49/P-288)
fuels for high temperature, properties of coated particle, 25:57052
fuels for high temperature, radiation effects on bonded beds of coated particle, 25:40132 (ORNL-TM-3361)
fuels for high temperature, release of heavy metallic isotopes from, 23:4259
fuels for high temperatures, design and performance of coated particle, (E), 24:50111 (CONF-700401-, pp 494-517)
fuels for high-temperature, analysis of fission product retention at 1100 and 1300°C by pyrolytic-carbon-coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle-type, 23:9156 (GA-8524)
fuels for high-temperature, design of carbon-coated particle, 21:38554
fuels for high-temperature, irradiation testing of coated ceramic, 24:30052 (CONF-700502-, pp 567-84)
fuels for homogeneous high temperature, design of coated particle, 24:50112 (CONF-700401-, pp 518-46)
fuels for HTGR type, development of coated particle, 23:40317(R) (GA-8662)
fuels for HTGR type, development of coated particle, (E), 23:43083(R) (GA-9227)
fuels for power, stress limits for coated particle uranium oxide (UO_2), (E), 25:1889 (RD/B/N-1622)
fuels for, burn-leach method for reprocessing of graphite base, 24:13997 (ORNL-4120)
fuels for, design and irradiation performance of coated particle, 25:6003
fuels for, design of German pilot plant for reprocessing of, 25:39585
fuels for, design of remote handling equipment for particulate, 24:19186 (ORNL-TM-2782)
fuels for, development of, 23:11235(R) (BNWL-919)
fuels for, development of clad graphite, 21:453 (CONF-611003-2)
fuels for, development of coated particle, 24:18585(R) (GA-9815)
fuels for, development of coated particle ceramic, 24:28987(R) (GA-9944)
fuels for, fabrication and reprocessing facilities in U. S. for, 25:39130 (A/CONF.49/P-62)
fuels for, facilities for interim storage of spent, 23:47721 (GAMD-9272)
fuels for, head-end burn-leach methods for reprocessing of, 24:268 (ORNL-4422, pp 107-19)
fuels for, head-end reprocessing of, 25:39586
fuels for, high temperature performance of silicon carbide (SiC) coated particle type, 25:57053
fuels for, high-temperature method for production of spherical particulate graphite, 23:8297(P)
fuels for, irradiation performance of coated particle, (E), 24:43866
fuels for, irradiation performance of coated particle, (E), 25:6004
fuels for, irradiation testing of, 25:49568 (GA-10468)
fuels for, measurement of relative conversion ratio for particle type, 25:10217
fuels for, performance of coated-particle, 21:8147
fuels for, performance of coated-particle, (E/T), 21:8146
fuels for, preparation and properties of coated particle, 25:6007
fuels for, radiation testing of, 21:18354 (ORNL-TM-1653)
fuels for, thermal conductivity of beds of coated particle, 21:8148
fuels for, use of hybrid computer for solution to energy equations for, 24:7118
fuels of, fission product release from coated particles, 25:48291(R) (ORNL-TM-3411)
gas turbine plants for fast power, temperature-eutropy diagrams and efficiency of steam and helium, 23:11266
gas turbine system for fast power, thermodynamics and safety requirements for economic closed cycle, 23:13367 (EIR-141)
gas turbine systems for carbon dioxide-cooled power, analysis of thermodynamic characteristics for optimum economic, 23:4292 (TRG-Report-1734)
graphite burnoff in high temperature, effects of steam concentration on, 24:4076(R) (ORNL-TM-2425)
graphite burnoff in high temperature, effects of steam concentration on, 24:4074(R) (ORNL-TM-2283)
graphite burnoff in high temperature, effects of steam concentration on, (E/T), 24:4075(R) (ORNL-TM-2368)
graphite burnoff in high temperature, effects of steam concentration on, 23:33067(R) (ORNL-TM-2533)
graphite burnoff in high-temperature, effects of steam concentration on, 23:17235(R) (ORNL-TM-2479)
graphite corrosion in graphite moderated, effects of gaseous hydrogen and silicon compound additives on, 23:37500(P)
graphite corrosion in graphite moderated, effects of carbonaceous material decomposition on, 23:37498(P)
graphite fabrication and production for, 21:45987(P)
graphite oxidation in high-temperature, computer analysis of, 22:13062 (BNWL-473, pp 5.19-23)
heat exchanger design for, 21:46909(P)
heat exchanger design for steam generation by, 21:41115
heat exchanger for carbon dioxide, description of gas—gas parallel tube-bend-connected finned-tube, 23:9140(P)
heat exchanger for closed-loop, description of grate supported multiple element, 23:23907(P)
heat exchanger for, description of removable concrete-pressure-vessel-contained, 23:15607(P)
heat exchanger for, description of tube-bend-connected multiple parallel finned-tube, 23:9144(P)
heat exchanger for, design of high pressure carbon dioxide, 23:33300(P)
heat exchanger performance testing for steam generation by, 21:41117
heat exchangers for carbon dioxide, design concepts and requirements for, 23:28545
heat exchangers for direct cycle gas turbine fast, optimum design parameters of, 25:20775
heat exchangers for direct cycle gas turbine power, development of dry air, 25:20777
heat exchangers for direct cycle high temperature gas turbine power, design requirements for, 25:20776
heat exchangers for high temperature graphite moderated power, safety problems of, 23:37490
heat exchangers for high temperature, heat transfer characteristics of, (E), 25:20780
heat exchangers for, arrangement of, 22:18635(P)
heat exchangers for, description of helically coiled tubes in telescoping multi-section concentric cylinder, 22:37496(P)
heat exchangers for, description of multiple self-supporting ladder-type side-to-side flow tube bank, 22:39799(P)
heat exchangers for, description of prefabricated removable, 22:20885(P)
heat exchangers for, description of removable integrated, 24:52911(P)
heat exchangers for, description of vertical-axis bell-shaped forced-flow once-through tube-and-shell, 23:2028(P)
heat exchangers for, design characteristics of secondary, 25:60074(P)
heat exchangers for, design of pressure-tube supports for, 21:46978(P)
heat exchangers for, design of sealed, 21:40648(P)
heat exchangers for, design of shell-and-tube, 22:1908(P)
heat exchangers for, economic analysis of design and size of, 23:28369
heat exchangers for, effects of step change of gas inlet temperatures on gas outlet temperatures of counter-flow, (T), 25:20779
heat exchangers for, heat transfer and hydrodynamic resistance in steam generating, (E), 24:16227
heat exchangers for, leak protection system for, 21:1183(T) (ORNL-tr-1309)
heat exchangers for, vibration of tubes in, 25:23230
heat exchangers for, with means to allow for expansion of tubes, 25:12811(P)
heat transfer and fluid flow calculations for, PRAWDA computer program for, 23:26112 (KFK-725)
heat transfer calculations for fast, numerical methods for analyzing steady-state, 24:18781
heat transfer circuit of graphite-loaded carbon dioxide, device for measuring pressure drop in, 23:7910(P)
heat transfer in heavy water-moderated, analysis of natural convection, 23:31474 (ZJE-29)
heat transfer in, pressurized carbon dioxide test loop for studies of, 23:26397(T) (AERE-Trans-1091)
heat transfer parameters for, HECTIC-2 computer program for calculation of, 25:23256 (KFKI-70-33-RPT)
heat transfer system for direct-cycle gas-turbine, with means for emergency cooling, 22:39817(P)
heat transfer system for dual-purpose high-temperature power and iron ore-reduction, flow diagrams for, 23:15700
heat transfer system for graphite-moderated, description of secondary superheat steam producing, 22:22783(P)
heat transfer system for, description of closed-loop pressure vessel contained, 22:25043(P)
heavy water dosimetric inspection and radiochemical analysis procedures for heavy water moderated, (E), 24:13585
helium circulator for, development of process-fluid lubricated bearings for, 21:14357 (MTI-66TR66, pp 8.3.1-22)
in-pile test loop for experimental, equations governing steady state and transients for fuel elements in, 22:16295 (UJV-1937)
instrumentation for graphite moderated, description of gas cleaned electrical insulators for in-core, 25:10191(P)
instrumentation for, description of temperature monitoring in-core, 25:39259 (IAEA-119, 4p.)
instrumentation for, descriptions and requirements for nuclear startup and operations, 23:37481 (CONF-680625-3)
instrumentation in France of, description and performance of electronic, 23:13447 (NP-17751)
instrumentation in French power, use of, 21:27769
kinetic parameters for fast, calculation of effects of delayed neutron data uncertainties on, 23:37463
kinetics calculations for, space-dependent, 21:38450(R) (GA-7181)
kinetics computer codes for high-temperature, development of space-time, 21:44830(R) (GA-7396)
kinetics for conceptual HTGR-type, two-dimensional diffusion theory and one- and two-dimensional kinetics codes for analysis of, 23:19464(R) (GA-8200)
kinetics of 2500 MW(t) helium cooled fast, effects of fuel and cladding materials on, 23:33036(T) (EURFNR-609)
kinetics of fast breeder, review of elementary design, 23:26026 (ANL-7532)
kinetics of fast, in regions of small perturbations, 23:52450(T) (JPRS-48330, pp 355-68)
kinetics of graphite moderated power, hybrid computer simulator for, 25:1869 (CEA-CONF-1580)
kinetics of high temperature, comparison of one and two dimensional codes for, (E/T), 24:16304 (BNL-50117, pp 40-54)
kinetics of high temperature, GYMEA computer program for, 23:47311 (CNM-R-2(Vol.3), pp 1333-47)
kinetics of natural uranium fueled graphite moderated, COREGRAF 2 computer program for, 25:12774 (CEA-N-1344(1))
kinetics of thorium oxide (ThO_2)—uranium carbide (UO_2) fueled, (E/T), 25:20787 (GAMD-10231)
kinetics of water moderated, effects of axial reflector configurations on, 23:40335
kinetics of, review on, 21:15731
kinetics-heat transfer code for, description and listing of BLOOST-6 combined, 22:22689 (GA-8416)
lattice cell resonance parameters for heavy water moderated, P-1 transport method for calculation of, 23:47184 (ZJE-48)
legal aspects in Argentina, 22:3840 (NP-16988)
list of coated-particle fuel using, 23:6715 (ORNL-4324)
loading access for, description of shield structure with removable plug retainer for standpipe, 23:23888(P)
loading device design for, 21:4418(P)
loading device for, description of door-sealed lock-chamber with remote control, 22:14218(P)
loading facilities for, with secured fuel element access tubes penetrating concrete pressure vessel, 22:20893(P)
loading facility for, design of pressure vessel enclosed, 25:20838(P)
loading machine design for, 21:19505(P)
loading machine design for, 21:4425(P)
loading machine for, 21:23772(P)
loading machine for 1000 MW(e) high temperature, design parameters of, 24:52852 (GA-9400(Vol.1))
loading machine for conceptual 1000 MW(e) HTGR, development of, 23:45053(R) (GA-9372)
loading machine for demonstration 300 MW(e) fast, design parameters and operation sequence for, 25:41439 (CONF-710315-7)
loading machine for graphite moderated, design parameters for overhead standpipe, 24:47872(P)
loading machine for graphite-moderated, description of vertical overhead pressure-vessel-contained, 23:17195(P)
loading machine for high temperature 1000 MW(e), shielding calculations for on-line "A", 23:26052 (GA-8639)
loading machine for high temperature graphite moderated, 25:60031(P)
loading machine for high temperature power, design concept for on-line, 23:43082 (GA-8471)
loading machine for solid-moderated, design of, 21:10192(P)
loading machine for, description of, 22:18628(P)
loading machine for, description of enclosed twin-arm, 22:18640(P)
loading machine for, description of gas-cushion bearing supported radial arm, 22:10041(P)
loading machine for, description of lock-chamber tunnel, 22:10035(P)
loading machine for, description of sealable pressure-vessel-type rotating-magazine fuel storage, 23:9172(P)
loading machine for, description of vibration reducing wire mesh guide tube of, 24:52941(P)
loading machine for, design of movable-arm, 22:12071(P)
loading machine for, design of overhead beam, 22:12070(P)
loading machine for, lifting chain for compact winding and storage in, 25:44211(P)
loading machine for, located in shielded gas-filled chamber above core, 22:10112(P)
loading machine for, testing of on-power, 22:46975
loading machine for, with magazine for rapid fuel element transfer, 22:10114(P)
loading machine for, with periscope for monitoring refueling, 22:10113(P)
loading machines for 1000 MW(e) HTGR-type, design parameters of, 23:4165(R) (GA-7553)
loading machines for high temperature pebble bed, design and operation of, 24:52940
loading machines for high temperature, development of, 25:10166 (GA-10265)
loading machines for Yugoslav, fabrication of, 22:10087

loading machines for, design and operation of, 24:52935
loading machines for, design, development, and operation of, 24:28864
loading machines in U.K. for, development and operations of, 24:52936
loading of high temperature power, description of equipment and procedures for, 23:47203
loading of, evaluation of on-line, 22:16146 (GA-8075)
loading of, system of standpipes and guides for, 25:10230(P)
loading systems for high temperature, comparison of conceptual on-line, 24:26770 (GA-8660)
loading tubes for graphite moderated, description of jointed concentric steel, 25:1860(P)
lubrication problems in, 23:35437
maintenance of fast breeder, requirements for, 24:18611
maintenance of power, procedures for remote, 25:57066
maintenance of, design requirements for access and inspection for, 25:60026
materials for carbon dioxide cooled, development of, zirconium—copper—vanadium alloys for, 21:39579(P)
materials for high-temperature, development of core and fuel, 22:16168
materials for high-temperature, review of properties of heat-resisting, 25:4779
materials for HTGR type, radiation effects on graphite, 23:40317(R) (GA-8662)
materials for, constituents of zirconium-base alloy, 21:45878(P)
materials for, development of, 24:2983 (ORNL-4470, pp 148-59)
materials for, development of corrosion resistant structural zirconium alloys for, 21:39574(P)
materials for, development of zirconium—copper alloy for, 21:39578(P)
materials for, development of zirconium-base corrosion resistant alloy for, 21:39582(P)
materials for, properties of heat-resisting alloy and metal, 25:19197
metallography for, pyrolytic carbon- or tungsten-coated urania and uranium carbide fuel spheres for, 21:30980 (LA-DC-8676)
mockup of high temperature, redesign of, 21:35575(R) (GA-7010)
moderator circuits of, determination of corrosion product radioactivity in heavy water, 23:40361
moderator corrosion by carbon dioxide in, effects of silicon hydrides (SiH$_4$ and Si$_2$H$_6$) and ethyl silicate (Si(OC$_2$H$_5$)$_4$) on graphite, 22:30400(P)
moderator corrosion in high temperature, mechanisms and reaction kinetics of graphite, 22:30175
moderator corrosion in, inhibitors for graphite, 22:17158(P)
moderator corrosion in, inhibitors for graphite, 21:18310(P)
moderator corrosion in, mass balance equations for graphite, (T), 22:35548
moderator damage problems in, graphite, 22:6058
moderator for 1000 MW(e) reference design high temperature, stress analysis of graphite, 24:38490 (DP-Report-135(Pt.2))
moderator for graphite moderated carbon dioxide cooled, description of coolant ventilated brick type, 24:29003(P)
moderator for graphite moderated carbon dioxide cooled, effects of repeated impregnation on surface area of, 24:11173(P)
moderator pressure equalizer for liquid moderated, description of piping and valve system for, 25:23274(P)
moderator storage for high temperature graphite moderated, description of high pressure steel piping for liquid, 23:31174(P)
moderator stresses in graphite-moderated, tables of formulas for calculating, 23:2104 (CEA-R-3518)
moderator structure for graphite moderated, description of coolant channels in, 24:52942(P)
moderators for carbon dioxide cooled, effects of coolant composition on corrosion of graphite, 25:54032 (A/CONF.49/P-504)
moderators for conceptual 1000 MW(e) pebble bed high temperature, neutron flux and temperature effects on pebbles of beryllium oxide (BeO), 23:11180 (JUL-525-RW-RG)
moderators for high temperature, effects of neutron flux of temperature coefficient of, (T), 25:51047 (JUL-746-RG)
moderators for high temperature, kinetics of steam reaction with graphite, 25:51141
moderators for high temperature, thermal and radiolytic reactions of coolant impurities with graphite, (T), 25:51073
moderators for, radiation effects on graphite, 22:52298
moisture content in coolants of, use of microwave equipment for measuring, 21:26266 (BNWL-406)
multiplication factor for thorium oxide (ThO$_2$)—uranium oxide (UO$_2$) fueled, temperature dependence of infinite, (E), 25:36988 (BNWL-1561)
multiplication factor for thorium oxide (ThO$_2$)—uranium oxide (UO$_2$) fueled high temperature, temperature dependence of infinite, (E), 25:39233 (BNWL-SA-3756)
multiplication factor in thorium oxide (ThO$_2$)—uranium-233 oxide (UO$_2$) lattices in high temperature, (E), 24:33252
neutron cross sections for high-temperature graphite-moderated, effects of uncertainties in, 22:5995
neutron effects on graphite core and moderator for high-temperature, fast, 21:40553 (GA-6881)
neutron flux distribution in graphite moderated, adjusted computer program for, (E/T), 25:28654 (CEA-N-1344(2))
neutron flux distribution in heavy water moderated, calculation of fine structure intermediate, (T), 23:43194 (ZJE-47)
neutron flux distribution in hexagonal core of power, GATT computer program for spatial, 23:26028 (GA-8547)
neutron flux flattening in power, use of, 22:50765
neutron flux flattening in, analysis of problems and effects of, 22:50765
neutron flux in heavy water moderated, integral transport theory modification for, (T), 23:43098 (ZJE-50)
neutron flux in, development of ionization chambers for measuring thermal, 21:19968
neutron flux-shaped spatial modes in graphite-moderated Calder Hall-type, stability analysis of, (T), 22:35546
neutron multiplication factors for natural uranium, determination of, 22:50762
neutron resonance absorption in heavy water-moderated, effects of lattice pitch on, (T), 22:44806(T) (ANL-Trans-652)
neutron resonance capture in, model for calculations, 21:1116
neutron spectra in high temperature, model for effects of fuel burnup on, (T), 24:41060 (DP-Report-155)
neutron spectra in plutonium fueled high temperature, calculation of stationary state thermal, 25:12778
neutronics of 1000-MW fast, (E/T), 21:7908
operating aspects of high temperature, analysis of load following, 25:53942 (A/CONF.49/P-479)
operation and performance of European, improvements in, 22:20831
operation and performance of, in Great Britain, 21:15647(R) (CONF-660450-1)
operation aspects of 1000 MW(e) fast breeder, 25:41367 (CONF-710315-15)
operation economics and efficiency, 21:44884
operation experience of European high-temperature, 22:6041
operation experiences in France of power, review of, 24:18570
operation experiences of world wide power, review of, 24:18569
operation in U.S. of 768 and 1015 MW(e), economics for, 23:13356 (CONF-680601-45)
operation of coated particle fueled helium cooled power, characteristics for optimum, 23:37553
operation of graphite moderated, problems in, 23:43127
operation of high-temperature, effects of chemical reactions on steady-state gas compositions in, 23:15829 (BNWL-974)
operation of pebble bed, 21:46916(P)
operation of power, review of, 22:18494
operation of U. K. dual-purpose desalting heavy water-moderated power, analysis of economics of, 23:6014
operation of, economics for, 24:49997
operation of, procedures for startup and long-term, 24:45894
operation of, safety of, 21:40571(R) (ORNL-TM-1913)
performance characteristics of fast breeder, comparison with liquid sodium-cooled fast breeder reactor of, 23:15610
performance characteristics of heavy water-moderated power, evaluation of, 23:15613
performance characteristics of high temperature fast, 22:16198
performance data for conceptual 1000 MW(e) fast breeder, description of, 23:15608
performance of 1000 MW(e) helium-cooled fast, effect of artificially roughened fuel elements on, (T), 22:44863
performance of 1000 MW(t) high temperature, effects of power density, fuel loading, and thorium to uranium ratio on, (T), 24:41026 (DP-Report-173)
performance of carbon dioxide cooled heavy water moderated, with natural uranium and plutonium-enriched natural uranium fuel cycles, (T), 25:8081(T) (NSJ-tr-162)
performance of heavy water pressure tube type, effects of carbon dioxide coolant on, (T), 25:10205
performance of power, review of, 24:35957 (TRG-Report-1924)
performance of U.K. power, 22:48678
performance of world-wide graphite-moderated power, comparison of, 23:23830
performance with steam turbine plant, 21:31991(P)
physics calculation methods for HTGR type, development of, 23:34896(R) (GA-8356)
physics calculations for fast breeder, review of methods and data for, 25:51083(R) (GA-10517)
physics calculations for, methods for solution of heterogeneities in, (E/T), 25:36989 (CEA-N-1398)
physics calculations of, use of digital computers for, 21:40521 (AEEW-M-754)
physics characteristics of heavy water moderated pressure tube carbon dioxide cooled, 25:18126
physics characteristics of high temperature, (E/T), 24:33253
physics characteristics of high temperature, summary of, 25:36986 (AEEW-M-985)
physics measurements for 1 MW, effects for Brayton cycle of hydraulic and thermodynamic calculations on optimum, 23:28580 (N-69-17313)
physics measurements for 1 MW, for Brayton cycle in space applications, 23:28581 (N-69-17314)
physics measurements for 1000 MW(e) HTGR-type, model analysis of, (E), 23:4165(R) (GA-7553)
physics measurements for 1000 MW(e) HTGR-type, model analysis of, 23:4168(R) (GA-7981)
physics measurements for 1000 MW(e) HTGR-type, model analysis of, 23:4166(R) (GA-7801)
physics measurements for 70 MW(t) plutonium fueled maritime, calculation of optimum economic, 23:37678
physics measurements for conceptual heavy water-moderated power, analysis of optimum, 22:53330
physics measurements of 1000 MW(e) high temperature, review of conceptual, 24:11155 (WASH-1085)
physics measurements on HTGR Lattice Assembly 1, 23:34896(R) (GA-8356)
physics of HTGR type, (E/T), 23:43083(R) (GA-9227)
physics of HTGR type, (E/T), 23:40317(R) (GA-8662)
physics parameters for 1000 MW(e) HTGR-type, calculation of, 23:4168(R) (GA-7981)
physics parameters for 1000 MW(e) HTGR-type, calculation of, 23:4166(R) (GA-7801)
physics parameters for 1000 MW(e) HTGR-type, digital computer programs for, 23:13412(R) (GA-8530)
physics parameters for 1000 MW(e) HTGR-type, one- and two-dimensional multigroup diffusion calculations of, (T), 23:4165(R) (GA-7553)
physics parameters for 1000 MW(e) HTGR-type, updated conceptual design, 23:19464(R) (GA-8200)
physics parameters for 1000 MW(e) HTGR-type, updated conceptual design, 23:4168(R) (GA-7981)
physics parameters for 1000 MW(e) reference design high temperature, 24:38490 (DP-Report-135(Pt.2))
physics parameters for 1000 MW(e) reference design high temperature, 24:38491 (DP-Report-135(Pt.3))
physics parameters for advanced, 23:19466
physics parameters for AGR, calculations of, 21:27729
physics parameters for closed-cycle fast power, calculation of optimum economic, 23:17204
physics parameters for high temperature, 25:20707
physics parameters for high temperature, evaluation of coarse mesh rebalancing technique for use in computing, 23:40441 (CONF-690401-, pp 451-70)
physics parameters of uranium carbide—zirconium carbide fueled fluidized bed, with rotating annular core, 25:41586
pipes for, analysis of temperature gradients and thermoelastic stresses in gas-outlet, (E/T), 23:13516
piping for, effects of thermal shocks on stresses in cooling system, 23:26003 (ZJE-43)
plutonium buildup in graphite-moderated, effects on core lifetime of, 22:50762
power conversion system for 1000 MW(e) fast breeder, design parameters for closed cycle gas turbine, 25:60137 (KFK-1409)
power conversion system for 1000 MW(e) high temperature, thermal cycle for, 24:52852 (GA-9400(Vol.1))
power conversion system for carbon dioxide cooled power, flow diagram and design parameters for reheat gas turbine, 23:28541
power conversion system for compact, optimum arrangement of, 25:1854(P)
power conversion system for helium cooled, description of carbon dioxide turbine, 25:37053(P)
power conversion system for high temperature, thermodynamics of direct-cycle gas turbine, (T), 24:46076 (DP-Report-339)
power conversion system for power, description of closed-loop gas turbine and direct MHD, 23:17241(P)
power conversion system for power, description of closed cycle, 24:36056(P)
power conversion system for power, description of closed cycle gas turbine, 25:60141(P)
power conversion system for power, digital simulation for optimum design of, 24:13586
power conversion system for, analysis of optimum design parameters for closed cycle helium turbine, 24:38588
power conversion system for, description of carbon dioxide gas turbine, 25:31625(P)
power conversion system for, design parameters of direct cycle gas turbine, 24:47890(P)
power conversion system for, operating characteristics of secondary air cooling system with closed Brayton cycle gas turbines, 25:60140
power conversion system for, performance of combined closed cycle helium gas turbine and Rankine steam cycle for, 25:60139
power conversion system for, principles for economic closed cycle gas turbine, 23:34914
power conversion systems for fast power, design requirements for, 24:47854
power conversion systems for helium, temperature-entropy diagrams for, 22:46940
power conversion systems for high temperature 1000 to 2000 MW(e), comparison of gas and steam turbine, 24:16229
power conversion systems for, design and operating parameters of magnetoplasmadynamic, (T), 25:20768
power cycle for direct cycle gas turbine, analysis of optimum, 25:15383(P)
power cycle for high temperature closed loop helium turbine, analysis of optimum economic, 25:34400
power cycles for direct cycle, development of, 25:23325(P)
power cycles for high temperature power, calculation of optimum, 25:12809
power cycles for power, comparison of steam and direct gas turbine, 25:20770
power density of graphite moderated, three dimensional calculation of, (T), 24:46016
power distribution in hexagonal core of power, GATT computer program for, 23:26028 (GA-8547)
power generation in, by combining thermionic or thermoelectric process with magnetogasdynamic process, 22:39843(P)
power plant parameters of, trends of, 21:27704
power production by, using closed-cycle turbines, 21:21727(P)
power production system for, with means for heat storage during off-peak operation, 25:28747(P)
power removal from, design parameters for MHD generator for, 21:23038 (AERE-R-5030)
pressure equalizer for cooling system of liquid-moderated, description of moderator and coolant fluid piston-connected dual-compartment, 23:15633(P)
pressure tube rupture in, mechanical effects on core structures from, 23:28510 (EUR-4101, pp 324-44)
pressure tubes of, thermal insulation for zirconium alloy, 24:5532(P)
pressure vessel design and testing for high-temperature, prestressed concrete, 21:34104 (GA-7097)
pressure vessel for 1000 MW(e) high temperature, design parameters of prestressed concrete, 24:52852 (GA-9400(Vol.1))

pressure vessel for 1000 MW(e) HTGR-type, strain analysis for prestressed concrete, 23:4168(R) (GA-7981)
pressure vessel for 1000 MW(e) HTGR-type, strain analysis for prestressed concrete, 23:19464(R) (GA-8200)
pressure vessel for 1000 MW(e) HTGR-type, strain analysis for prestressed concrete, 23:4165(R) (GA-7553)
pressure vessel for 200 MW(e) pebble-bed, design of prestressed concrete cylindrical, 23:11207
pressure vessel for advanced power, fabrication and construction requirements for prestressed concrete, 23:28433
pressure vessel for conceptual 1000 MW(e) high temperature, analysis of optimum design parameters for prestressed concrete, 23:45068 (GA-8439(Rev.))
pressure vessel for Czechoslovakia carbon dioxide-cooled heavy water-moderated, description of hydrostatic testing of cylindrical mild steel, 22:42230
pressure vessel for graphite moderated, use of prestressing tendons for securing heat exchanger access closures in prestressed concrete, 25:10198(P)
pressure vessel for graphite-moderated power, method for prestressing concrete, 23:28462(P)
pressure vessel for high temperature power, elastic behavior of penetrated upper slab of, 23:28469
pressure vessel for high temperature, development of prestressed concrete, 25:10166 (GA-10265)
pressure vessel for, construction method for multiple layer prestressed concrete, 24:4046(P)
pressure vessel for, description of coolant tube-lined prestressed concrete, 22:3877(P)
pressure vessel for, description of heat exchanger containing concrete, 25:15364(P)
pressure vessel for, description of multiple horizontal metal cable hoops in vertical cylindrical prestressed concrete, 23:23889(P)
pressure vessel for, design characteristics of thermal insulation of prestressed concrete, 23:28471
pressure vessel for, design criteria and quality control for prestressed concrete, 22:22855 (GA-8511)
pressure vessel for, design of metal-lined concrete, 22:12511(P)
pressure vessel for, design parameters for triple chambered prestressed concrete integral, 23:43108(P)
pressure vessel for, lumped-parameter stress analysis of cylindrical prestressed concrete, 23:23897 (TID-25012)
pressure vessel for, prestressing method for cylindrical concrete, 24:4170(P)
pressure vessel for, scale-model failure testing of prestressed concrete, 23:21473
pressure vessel for, thermal insulation for concrete, 25:49591(P)
pressure vessel prestressing for, use of steel rings for concrete, 22:44829(T) (ORNL-tr-1966-b)
pressure vessel thermal insulation for, design of, 21:28740(P)
pressure vessels for 500 MW heavy water moderated power, fast neutron radiation effects on prestressed concrete, 25:23270 (UJV-2390-RT)
pressure vessels for 500 MW heavy water moderated, fast neutron radiation effects on prestressed concrete, 25:37007(T) (ORNL-tr-2470)
pressure vessels for France graphite-moderated, design safety recommendations for prestressed concrete, 22:44832(T) (ORNL-tr-1966-e)
pressure vessels for graphite-moderated, description of stainless steel pad—foil sandwich thermal insulation for prestressed concrete, 22:44830(T) (ORNL-tr-1966-c)
pressure vessels for heavy water-moderated natural uranium fueled power, design parameters and fabrication techniques for carbon steel, 23:26002 (ZJE-36)
pressure vessels for helium-cooled, with boiler units in vessel walls, 23:11231
pressure vessels for high pressure, design of prestressed concrete, 22:12471 (AAEC/TM-390)
pressure vessels for high temperature power, development of prestressed concrete, 23:28460 (ORNL-4353, pp 141-278)
pressure vessels for high temperature power, development of prestressed concrete, 24:24821 (ORNL-4508, pp 113-58)
pressure vessels for high temperature, design requirements of prestressed concrete, 25:18134
pressure vessels for high temperature, development of prestressed concrete, 21:44830(R) (GA-7396)
pressure vessels for high-temperature, development of prestressed concrete, 21:40553 (GA-6881)
pressure vessels for power, design criteria for prestressed concrete, 23:11229
pressure vessels for power, development of gas wall thermal insulation for prestressed concrete, 23:37492
pressure vessels for power, effects of pod boilers on design of prestressed concrete, 23:28474
pressure vessels for power, model analysis of 60°C effects on creep behavior of prestressed concrete, 23:7387 (GA-8776)
pressure vessels for power, optimum design characteristics for thermal insulation of prestressed concrete, 23:28473
pressure vessels for, comparison of internal thermal insulations for reinforced concrete, 25:51079
pressure vessels for, construction in USSR of prestressed ferroconcrete, 24:11200(T) (JPRS-49481)
pressure vessels for, description of ceramic or glass thermal insulation for prestressed concrete, 24:9102(P)
pressure vessels for, description of prestressed concrete, 22:18625(P)
pressure vessels for, description of prestressed concrete, 23:13380
pressure vessels for, description of removable overhead cover for prestressed concrete, 23:28465(P)
pressure vessels for, design parameters of prestressed concrete, 25:31550 (EUR-4531, pp 601-13)
pressure vessels for, design requirements for prestressed concrete, 25:54147 (A/CONF.49/P-475)
pressure vessels for, designs of prestressed concrete, 22:1790
pressure vessels for, development of prestressed concrete, 25:5990(R) (ORNL-4589)
pressure vessels for, development of prestressed concrete, 25:48260(R) (ORNL-4637)
pressure vessels for, development of prestressed concrete, 24:4050 (ORNL-4424, pp 101-241)
pressure vessels for, effects of coolant conditions on design and safety criteria for prestressed concrete, 23:11226
pressure vessels for, elastic stress and creep analyses for concrete, 21:35575(R) (GA-7010)
pressure vessels for, evaluation of safety of, 22:30195
pressure vessels for, inspection of materials for Japanese, 22:30805
pressure vessels for, review of prestressed concrete, 24:13641
pressure vessels for, scale model testing of prestressed concrete, 23:45075
pressure vessels for, shear failures in end slabs of prestressed concrete, (E), 24:50101 (CONF-700401-, pp 387-402)
pressure vessels for, standpipe design for prestressed concrete, 21:19437(P)
pressure vessels for, summary of model studies for prestressed concrete, 22:46911(R) (ORNL-4266)
pressure vessels for, survey of materials and design of insulation for prestressed concrete, 25:37006 (ORNL-TM-2929)
pressure vessels for, testing methods for prestressed concrete, 25:29302
pressure vessels for, thermal insulation for prestressed concrete, 25:20727(P)
pressure vessels for, time-dependent behavior of prestressed concrete, (E), 24:50102 (CONF-700401-, pp 403-31)
pressure vessels in U.S.S.R. for, construction of prestressed ferro-concrete, 23:21474
pressure vessels of prestressed concrete with split chamber for coolant diversion, 24:9104(P)
protection system for, design requirements for, 25:54147 (A/CONF.49/P-475)
radiation detectors in U. K. for power, performance of high temperature, 25:39258 (IAEA-119, 4p.)
radiation heating in HTGR materials, analysis of gamma, (T), 23:40317(R) (GA-8662)
reactivity accidents in, high-temperature delayed Doppler coefficient effects on, 21:35576 (GAMD-7547)
reactivity measurements for mixed oxide fueled high temperture, 25:48235(R) (BNWL-1522-2)
reactivity measurements in high temperature reactor core mockups, 21:7872 (GAMD-7230)
reactivity of high temperature power, effects of plutonium fuel on, 24:4026(R) (GA-9660)
reactivity of, use of pulse neutron technique for measuring subcritical, 21:21681
reactivity oscillation in 1000 MW(e) HTGR-type, behavior of xenon in, 23:13412(R) (GA-8530)
refueling in U.K. of high temperature, economics of on-load and off-load, 25:34234
relationship to fast breeder reactors, 22:1812
remote handling and viewing equipment for conceptual 1000 MW(e) HTGR, development of, 23:45053(R) (GA-9372)
remote handling and viewing equipment for, requirements for, 23:7380
safety aspects of high temperature, 25:54147 (A/CONF.49/P-475)
safety aspects of high temperature power, 25:60130
safety aspects of high temperature, probability analysis for, 24:50061
safety aspects of, notes for lectures on, 23:2057 (NP-17649(Vol.1))
safety aspects of, review of research and development programs on, 25:8045
safety characteristics of high temperature power, analysis of accident and failure response, 23:37565
safety characteristics of high temperature power, with integrated boiler, 23:28477
safety characteristics of high temperature, review of, 25:18162
safety of advanced, analysis for urban siting of, 22:18443
safety of helium cooled fast, development of criteria for, 24:50153 (CONF-700401-, pp 879-89)
safety of high temperature fast breeder, discussion on, 23:28368
safety of high temperature, analysis of conditions affecting, 22:12056
safety of power, statistical fault analysis for, 24:5537
safety of, chemical aspects of, 25:57090 (ORNL-4717, pp 91-107)
safety of, research progress summaries to Nov. 1969, 24:16225
safety of, summary of April 1969 research and development on, 23:15664
safety program for, summary of UKAEA, 22:42210 (TID-24564)
safety programs for, outline of, 22:44855
safety programs for, review of, 25:26008
safety programs in U.S. for, review of, 24:31089
safety research and development for, summary of, 21:40629
safety research and development projects for, summary of, 22:53395
safety studies for high temperature, March to April 1970, 24:36051(R) (ORNL-TM-2984)
safety studies for high temperature, May to June 1970, 24:46071(R) (ORNL-TM-3061)
safety studies for high temperature, Sept. to Oct. 1969, 24:11214(R) (ORNL-TM-2777)
safety studies for high-temperature, description of, 22:25098(R) (ORNL-TM-2164)
safety studies for, review of, 25:48294
safety studies for, summary of, 22:20861
safety studies of advanced, model simulation for, 23:15660
safety studies on French, outline of, 22:14176
safety system for pressure tube, design of, 21:46922(P)
safety systems for, reliability factors for, (T), 25:1898 (MRR-57)
shielding for graphite moderated, support structure for top, 24:18628(P)
shielding for graphite-moderated power, calculations for neutron, (E/T), 23:13463 (AERE-R-5773(Vol.3), pp 600-26)
shielding for high temperature, calculation of optimum, 23:49586(R) (EUR-4230)
shielding of graphite-moderated, description of vertical helical-grooved graphite cylinders and interspaced iron bars for, 23:19484(P)
shutdown of high temperature, afterheat removal system for, 25:60110
shutdown of, rupture sealed compartment containing poison material for, 24:38565(P)
shutdown safety system for, description of electromagnet-retained multiple boron steel spheres in, 22:53329(P)
shutdown using natural coolant circulation, emergency, 21:17500
site for 1000 MW(e) high temperature, design requirements of, 24:52852 (GA-9400(Vol.1))
siting of high temperature power, comparison of system characteristics for safe urban, 23:37567
siting of high temperature power, safety aspects for urban, 23:37566
siting of, analysis of potential hazards for urban, 24:50065
siting of, engineering aspects of, 24:43791 (NP-10130)
siting policy in U.K. of prestressed concrete-contained power, presentation of new, 23:15578
siting safety of, analysis of design requirements for urban, 23:2060
stability of 1000 MW(e) HTGR, effect of xenon oscillations on, 23:34896(R) (GA-8356)
stability of conceptual A2 heavy water-moderated natural uranium fueled power, analysis of xenon, (T), 23:26030 (UJV-2120-R)
stability of fast, effects of data uncertainties on, 24:7091
stand pipe closure and loading machine connections for high temperature, elastomer O-ring seals for, (E), 25:20742 (DP-Report-496)
standpipe closure for, description of sealing arrangement in, 22:48760(P)
steam cycle for fast breeder power, design parameters and flow diagrams for conceptual straight, 23:21507
steam cycle for high temperature, effects of variations in turbine parameters on thermodynamics of, 23:28542
steam generator and piping optimization for, 21:4649
steam generator circuit for, CYTHERE code for transient phenomena in, (E/T), 24:43731 (CEA-R-4012)
steam generator evaporator sections of, nucleate boiling effects on heat transfer in, 21:41128
steam generator for, design of high-pressure, 23:2489(P)
steam generator for, design of improved heat transfer, 23:33314(P)
steam generator for, use of computers to determine steady partial load of once-through, 21:34402
steam generator in high-temperature, analog control studies for, 21:7870 (GAMD-6992)
steam generators for high temperature power, development in U.S. of, 25:31623 (GA-10338)
steam generators for high temperature, corrosion of welds in, 25:48260(R) (ORNL-4637)
steam generators for high temperature, corrosion resistance of nickel alloy welds in, 24:4060 (ORNL-4424, pp 3-72)
steam generators for high temperature, corrosion resistance of nickel alloy welds in, 25:5990(R) (ORNL-4589)
steam generators for, MEDEA code for pressure and temperature distribution in helium—water, 25:31624 (JUL-698-RG)
steam generators for, summary of design characteristics of, 24:9084
steam systems for, method of condensate treatment in, 22:24983
steam-graphite reactions in, fission product release during, 21:46906
stresses in structural members of, method for calculating acoustically-induced, 24:33852 (RD/B/N-1607)
structural materials for, development of zirconium—copper—chromium—molybdenum alloys for, 21:39585(P)
structures and foundations for 1000 MW(e) HTGR concept, design criteria for, 23:43083(R) (GA-9227)
support for, design of, 21:44957(P)
support structures for, design of earthquake resistant, 25:54151 (A/CONF.49/P-672)
temperature coefficient of reactivity for, description of methods for measuring, 22:50753
temperature distribution in graphite moderated, three dimensional calculation of, (T), 24:46016
temperature measurements in, development of microwave techniques for, 25:48244 (HEDL-SA-122)
temperature measurements in, errors in thermocouples from insulating materials for, 24:36642 (DP-Report-77)
thermal behavior of, effects of operating conditions on, (T), 23:45134
thermal characteristics of heavy water-moderated carbon dioxide, 22:3831 (JAERI-1145)
thermal insulation for high temperature, heat transfer systems and equipment for testing, 25:31575 (EUR-4531, pp 953-64)
thermal insulation for internal surfaces of, description of, 23:40354(P)
thermal insulation for power, effects of helium atmosphere on free convection in porous medium and metal, (E/T), 23:37491

thermal insulation for, design of, 21:28739(P)
thermal insulation for, high-pressure performance of, 25:30029 (EUR-4531, pp 841-81)
thermal insulation for, performance of honeycomb metal, 25:31577 (EUR-4531, pp 1063-78)
thermal shielding for, design of boron-containing cast iron, 21:46989(P)
thermal shielding for, properties of aluminous and Super Secar-type concretes for, 25:30031 (EUR-4531, pp 975-1018)
thermodynamics of heavy water moderated power, effects of core configuration on optimum, 24:35998
thorium fuel cycle development for, 25:2320(R) (ORNL-TM-3204)
transient tests on HTGR, preliminary calculations on proposed Transient Simulation Assembly for, 23:34896(R) (GA-8356)
transients in high temperature, space effects and spectra effects for rod withdrawal, (T), 24:33261
turbine cycles for high temperature, use of gas, 21:34097 (EUR-2757.e, pp 331-)
turbine cycles for integrated fast breeder power carbon dioxide cooled, design characteristics of direct and indirect, 23:28539
turbine cycles in, economics of gas, 21:34098 (EUR-2757.e, pp 353-)
turbine design for high-temperature, 21:15742
turbine development for, potential of direct cycle gas, 21:10163
turbine for closed-cycle, description of optimum helium-drive, 22:46941
turbine for, design parameters of closed cycle carbon dioxide gas, 25:10249(P)
turbine for, design parameters of closed cycle carbon dioxide gas, 25:10250(P)
turbine systems for high-temperature power, development of optimum helium, 23:17240
turbines for 1200 MW(e), design requirements for integrated direct cycle gas, 25:20778
turbines for carbon dioxide, design parameters for, 23:28545
turbines for carbon dioxide-cooled, design for closed cycle gas, 25:51679(P)
turbines for direct cycle high temperature power, design parameters for gas, 23:28544
turbines for direct cycle power, effects of design on economics of gas, 23:37603
turbines for helium cooled fast, characteristics of gas, 24:36055 (EIR-181)
turbines for helium cooled power, development problems for integrated gas, 23:28543
turbines for helium cooled, design problems for direct cycle gas, 24:50177
turbines for helium cooled, design problems of direct cycle, 25:60145
turbines for helium high temperature power, performance of control system for helium gas, 23:37485
turbines for high temperature power, development of, 23:26063(T) (CEA-tr-A-1968)
turbines for high temperature, development of helium, 24:50172 (CONF-700401-, pp 231-50)
turbines for high temperature, efficiency of direct cycle, 23:28546
turbines for high-temperature helium-cooled, design problems for closed-loop gas, 23:26064
turbines for high-temperature power, problems with optimum design of direct-cycle helium, 23:15670(T) (ORNL-tr-3011)
turbines for high-temperature, development potential for direct-cycle carbon dioxide, 23:17239(T) (ORNL-tr-3013)
turbines for high-temperature, performance of closed-cycle gas, 22:39821
turbines for integral power, analysis of optimum economic design parameters for gas, 23:43142
turbines for integrated circuit high temperature, use of helium, 24:9082
turbines for power, comparison of design requirements for closed cycle carbon dioxide and helium gas, 23:37604
turbines for power, comparison of operation of carbon dioxide, helium, and neon gas optimum economic, 23:37605
turbines for power, description of direct cycle gas, 23:40281(P)
turbines for power, design parameters for closed cycle gas, 24:50176(P)
turbines for power, design requirements for direct cycle gas, 25:20772
turbines for power, design requirements for integrated direct cycle gas, 25:20774
turbines for power, development of, 22:18488
turbines for power, development of closed cycle gas, 25:20690
turbines for power, development of direct cycle gas, 25:20771
turbines for power, development of indirect cycle carbon dioxide, 25:20773
turbines for power, development testing of closed cycle gas, 23:37602
turbines for power, enthalpy-entropy diagrams for helium, 23:28537
turbines for, component sizes of argon and helium closed-cycle, 22:7850
turbines for, development of closed-cycle helium, 25:34204
turbines for, development of direct-cycle helium, 21:42766
turbines for, economic analysis of design and size of, 23:28369
turbines for, economics and operating characteristics of gas, 24:9137
turbines for, part load performance of direct cycle gas, (T), 25:10251
turbines for, performance of direct and indirect cycle carbon dioxide, 23:26065
turbines for, performance of helium, 23:15562
turbines in helium cooled power, comparison of safety characteristics for 20 MW(e) non-integrated and 600 MW(e) integrated gas, 23:28529
turbo-compressor labyrinth gland and shaft bearing for power, description of, 22:42278(P)
use for desalination of high-temperature, 21:40553 (GA-6881)
use for space power systems, 21:42807
use in MHD energy conversion, (E), 22:7204(P)
use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
void tubes in, design of, 21:44958(P)
xenon instabilities in large high-temperature, effects of size on, 21:40553 (GA-6881)
xenon stability in high temperature, nonlinear analyses of, 21:1161 (GAMD-6924)

REACTORS, GAS-FUELED
acoustic wave propagation in rocket, effects of configuration on, (T), 24:52980
analysis for rocket propulsion, 23:42017
aspect ratio variations in, effects on vortex flow, 21:15756 (N-66-38502)
bibliographies on foreign and domestic power, 23:17175 (BNWL-936(Vol.1))
configuration for parallel coaxial propellant flow in cavity-core rocket, description of, 23:2093(P)
coolant flow behavior in vortex cavity, 21:15754(R) (N-66-37315)
coolant flow in gas core, characteristics and reactivity effects of, 25:41585
core cell for light bulb concept, design and in-reactor performance of model unit, (T), 25:23366 (N-71-10373)
core development for light bulb rocket, testing program and procedures for, 25:26024 (GEMP-670)
core development for light bulb rocket, testing program and procedures for, 25:26025 (GEMP-684)
core for cavity-core power concept, heat transfer, pressures, and temperatures in, (T), 24:16148
core of cavity, heat transfer in, 22:32940
core of, radiant heat transfer in, 22:6072
core walls for light bulb concept, development and testing of fused silica models of, 25:23367 (N-71-10379)
critical mass change, calculation of effects of hot hydrogen gas on, 21:27792
critical mass for open cycle gas core rocket, (E/T), 24:33468
critical mass for open-cycle gas core, effects of operating conditions and uranium-233 fuel on, (t), 25:51196
critical mass for open-cycle gas core, using uranium-233 and uranium-235 fuels, (T), 24:52977 (N-70-29993)
critical masses for cylindrical cavity gas core, (T), 25:1944 (N-70-33276)
criticality and performance of space propulsion, (T), 21:2865 (AD-635232)
criticality calculations for cylindrical, reflected, finite, use of two-group diffusion theory for, (T), 22:6065
criticality calculations for, with variable-density circulating fuel, 21:7907
criticality measurements for light bulb and open-cycle rocket, analysis of uranium-233, 22:35571 (N-68-10931)
criticality measurements in large cavity reactor mockup, 21:38696
criticality of sphere shaped uranium fluoride (UF$_4$) gas core, effects of composition and configuration on, 25:23363 (IN-1443)
criticality of, effects of acoustical actuated density oscillations on, (T), 23:31157 (IAE-1641)
criticality parameter determinations for, 22:6086
design characteristics of gas cooled, 25:36985(P)
design characteristics of gaseous core closed-cycle light bulb concept, 24:31112 (N-70-17470)
design concept for gas core, with MHD power plant, 25:6137
design of cavity core, with thermionic converters and turbogenerators, 25:28635(P)
design of cavity-core rocket, 22:12078
design of vortex stabilized rocket, with helium gas buffer layer between fuel and propellant, 25:20806(P)
design parameters for vortex core, binary diffusion model analysis of optimum, (E/T), 23:26101
development for rockets, 24:49979
development of light bulb and coaxial flow gas core concepts, in U.S, 25:51202
development of light bulb and coaxial flow rocket, 25:12834
development of rocket, 24:50202
development of rocket, review of, 23:52428
Doppler reactivity for high temperature cavity core, 25:5957
evaluation of open-cycle rocket, parameter comparison criteria for, 23:4391 (N-68-27231)
flow stabilization in coaxial-jet gaseous-core, by magnetic nozzle, (T), 24:18743
fuel containment and vortex flow testing of open-cycle and light-bulb types of cavity-core rocket, analysis of optimum, 22:44877
fuel containment characteristics of radial-inflow vortexes in light bulb concept, simulation of heated and unheated, (E), 25:23370 (N-71-10413)
fuel containment in coaxial flow gas core, effects of propellant-to-fuel flow ratio on, (T), 25:51195
fuel containment in gaseous core, turbulent coaxial-flow analysis of, (E/T), 24:33470
fuel containment in open cycle rocket engine concept, flow mockup testing of, 24:4107
fuel containment in rocket, description of magnetic field, 22:32948
fuel development for light bulb rocket, testing program and procedures for, 25:26026 (GEMP-691)
fuel development for light bulb rocket, testing program and procedures for, 25:26027 (GEMP-693)
fuel development for light bulb rocket, testing program and procedures for, 25:26023 (GEMP-654)
fuel for, thermodynamic and optical properties of uranium plasma, (T), 22:18541 (GA-8244)
fuel loss rate for open-cycle gas core, (T), 24:52973 (N-70-25447)
heat transfer for particle-seeded rocket, analysis of radiant, 22:35570 (N-68-10561)
kinetics equations for design of, (T), 22:6032
kinetics of, analysis of hydrodynamic and neutronic, (T), 25:6175
kinetics of, nonlinear oscillation analysis for, (T), 23:33099
neutron collision probabilities in thermal, 21:25743
neutron flux distribution in cylindrical, reflected, finite, use of two-group diffusion theory for, (T), 22:6065
operation dynamics of, description of oscillating and pulse, (T), 22:6032
operation of cavity core pinch-fission fast breeder, control and stability analysis of, (T), 25:34331
performance of open-cycle gas core, simulations of, (E), 25:46317 (N-71-20295)
performance of regeneratively cooled gas core, for various space missions, (T), 25:54227 (N-71-22618)
performance studies on vortex-stabilized light bulb and open cycle cavity-core rocket, analysis of, 22:37515 (N-68-22038)
physics calculations for conceptual fast breeder power, 25:5971
physics parameters of spherical gas core, (E), 25:6133
power production from, experimental program for, 22:10010(R) (NP-17126)
propellant for gas core, radiant heat transfer in refractory aerosol containing, (T), 25:6135
propellant for gas core, thermal radiation transmission through refractory aerosol containing, (T), 25:6134
propellant heating in light bulb concept, use of dc arc energy source to simulate radiant, (E), 25:23369 (N-71-10405)
radiation transfer control in nuclear rocket engine, optical properties of particles and gases for, (T), 21:604 (NP-16338)
radiative flux emission from light bulb concept, spectral distribution of, (T), 25:23371 (N-71-10431)
radiative flux in light bulb concept, use of high-intensity RF energy source to simulate, (E), 25:23372 (N-71-10501)
reactivity measurements for light bulb rocket, testing program and procedures for, 25:26022 (GEMP-647)
recirculation zone in cylindrical gas-core cavity, simulation of flow patterns in, (E), 22:32952
simulation of, operation of 1 MW argon plasma jet for, 23:47282
stability of cavity-core rocket, analysis of acoustic, (T), 22:32949
stability of gaseous core rocket, model of acoustic, 24:31123
stability of, analysis of acoustic, (T), 24:50233
stability of, criteria for acoustic, (T), 23:47283
stability of, effects of acoustic instabilities on, (T), 24:52999
startup of light bulb concept, operating conditions during, (T), 25:23368 (N-71-10404)
temperature distributions in fuel region of nuclear rocket engine, radiant heat transfer calculations of, 21:1202 (NP-16337)
temperature fields in plasma core, (T), 25:36990 (DLR-FB-70-18)
transient response of light bulb concept, analytical model of, (T), 25:23368 (N-71-10404)
weight of open-cycle gas core, effects of fuel loss rate on, (T), 24:52973 (N-70-25447)

REACTORS, GERMANY
see also AVR Reactor
see also Biblis Power Reactor
see also Brunsbuettel Power Reactor
see also Lingen Power Reactor
see also MZFR (Siemens Reactor)
see also Niederaichbach Power Reactor
see also NWK Reactor
see also Obrigheim Power Reactor
see also Otto Hahn Reactor
see also Philippsburg Power Reactor
see also Stade Power Reactor
see also VAK Reactor
see also Weisweiler Power Reactor
see also Wuergassen Power Reactor
construction of power, proposals of authorization procedures for, 25:20689
construction of power, status of, 25:20568
construction of power, status of, 25:25861
construction of power, status of, 25:25860
construction of, review of, 23:47174
construction schedule for power, 24:24702
construction status of power, 24:24703
control of, review of instrumentation used in, 22:53485
control of, use of digital computers for, 23:40309
control systems for, development of digital computer, 25:39158 (IAEA-119, 15p.)
description of AGR-type, 22:53338
description of high-temperature, 22:27426
description of light and heavy-water pressurized, 22:53339
description TRIGA type, for use in medical research, 24:34485
design and development of fast breeder, 21:17491
design and performance of GfK experimental, 21:30187
design of 20 MW(e) prototype gas-cooled, with gas turbines, 21:14006
design of 300 MW(e) fast sodium cooled, conceptual, 22:16187
design parameters for 300 MW(e) liquid sodium-cooled and steam-cooled plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)-fueled, analysis of, 22:35498
design parameters for 300 MW(e) prototype steam-cooled fast, description of, 23:11159 (CONF-680419-, pp 111-26)
development, 21:35597

development during 1970 to 2020 of power, effects of reactor types on optimum economic, 23:28414 (JUL-556-PA-RG)
development during 1971, proposed budget for, 25:3853
development for power production, 22:8536
development history of, 23:43240 (NP-17899)
development of 300 MW(e) prototype steam cooled fast breeder, review of, 25:12767 (BMBW-FBK-70-20)
development of dual purpose desalination and power, comparison of reactor types for optimum economic, 24:22467 (BMwF-FBK-69-40)
development of fast breeder power, 24:22382
development of fast breeder power, analysis of optimum economic, 24:28988 (KFK-1066)
development of fast breeder, 1970 status of, 24:24800
development of fast breeder, description of, 23:9108
development of fast breeder, during July to August 1970, 25:25959 (KFK-1270/3)
development of fast breeders during 1970, 25:31538
development of fast, economics and technology of, 21:15658 (KFK-480)
development of gas cooled power, comparison with U.K. of economics for, 23:37453
development of heavy-water-moderated power, review of, 23:13436
development of high temperature gas cooled pebble bed power, review of, 24:35999
development of high temperature gas cooled power, effects of fuel cycle on predicted economic, 23:37512
development of high temperature helium cooled gas turbine power, review of programs for, 24:22385
development of high-temperature power, effects on economics to 1990 of, 23:23932
development of high-temperature thermal, 21:44828 (EUR-3493.e)
development of pebble bed, 23:49546
development of power, 21:19417
development of power, 25:10105
development of power, analysis of optimum economic, 23:47214
development of power, description of, 23:9108
development of power, effects of electric power market on, 24:52785
development of power, present trends for, 23:23868
development of power, problems related to, 25:10097
development of power, survey of progress of, 21:21673
development of power, type comparisons for optimum economic, 23:1996
development of thorium fueled, review of, 23:37452
development of West, 21:46874
development program for fast breeder power, description of, 22:48670
development program for heavy water-moderated carbon dioxide-cooled breeder, description of, 22:39832
development program for liquid sodium- and steam-cooled fast breeder, description of, 22:35539
development program for liquid sodium- and steam-cooled fast breeder, description of, 22:37461
development program for power, 22:46933
development program of fast breeder power, description of, 22:37448 (NP-17521)
development programs for, description of, 22:24981
developmental program for fast steam-cooled breeder, 22:16201
economics for dual-purpose multiflash desalination, analysis of optimum, 22:44879 (EUR-4034)
economics of prototype power, in future electricity supply system, 24:22419
economics of thermal water-moderated power, 22:48709
electric distribution systems for power, analysis of optimum economic, 23:11128
equipment for, production of heavy, 23:40934
fuel cycles for fast, development program for optimum plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), 22:35500
fuel development and economics of, 21:15657 (KFK-466)
fuel fabrication for fast, economics of, 22:35499
fuel processing requirements for, estimation to 2000 AD, 22:35985
fuel reprocessing for fast, economics of, 22:35499
fuels for power, economics of, 22:37502
fuels for power, supply-and-demand for 1966 and 1967, 23:5991
gas turbines for GHH 22-MW(e) prototype gas-cooled, design of, 21:14005
instrument development for, 21:35598
licensing of power, discussion of policy reforms for, 22:37505
licensing of power, requirements for, 23:33013
licensing procedures for power, proposed modifications to, 22:22724
operating experience of, 22:22720
operation during 1970, summary of, 25:46183
operation of power, power-generating cost analysis for optimum, 22:39766 (EUR-3079(Rev.))
operation of power, summary of 1968, 24:13493
performance of power, comparison of, 22:48656 (RT/EC-(68)1)
personnel access locks in, standard for, 25:43996
power production by, politico-economic effects of, 22:30154 (KFK-675)
power production from, comparison with petroleum-fired plants of economy of, 22:30169
radiation monitoring of environment at, 21:22434
reactivity period analysis of fast breeder, using TERM-1 code, 21:17455 (KFK-462)
safety of power, proposals for research programs on, 25:20687
safety of water cooled, design and performance of systems for, 25:54146 (A/CONF.49/P-365)
safety of, German authorization procedures, site evaluation, and criteria for, 25:20688
safety of, licensing criteria and procedures for, 25:54145 (A/CONF.49/P-364)
safety systems for power, testing experiences with, 23:1984
shielding experiments at Geesthacht, flux density correction for, 21:21776(T) (ORNL-tr-1513)
shielding experiments in FRG, 21:13964 (EUR-2960.d)
siting of power, effects of engineered safeguards and refined analytical methods on urban, 23:37360 (CONF-681101-32)
siting of, environmental effects on, 22:18466
tabulation and description of power and research, 23:21456
tabulation of power, 23:49530
testing of, legal requirements and standards for, 22:48704
thermal effluents from, effects on surface water of, 23:52294

REACTORS, GRAPHITE-MODERATED
see also Argonaut Reactor
see also Argonne Low-Power Research Reactor
see also AVR Reactor
see also Belgian Reactor-1
see also Beloyarsk Power Reactor, Unit 1
see also Beloyarsk Power Reactor, Unit 2
see also BEPO
see also Berkeley Reactors
see also Bradwell Reactors
see also Brookhaven Reactor
see also Bugey Reactors (EDF-5)
see also Cadarache Reactors (Cesar)
see also Calder Hall Reactors
see also Chapelcross Reactors
see also Chinon Reactors (EDF-1)
see also Chinon Reactors (EDF-2)
see also Chinon Reactors (EDF-3)
see also Dungeness A Reactors
see also Dungeness B Reactors
see also Experimental Gas-Cooled Reactor
see also Fessenheim Power Reactor, Unit 1
see also Fort St. Vrain Power Reactor, Unit 1
see also GLEEP
see also Hallam Power Reactor
see also Hanford Dual-Purpose Reactor
see also Hanford Production Reactors
see also Hanford Production Reactors (N)
see also Hanford Test Reactor
see also High-Temperature Gas-Cooled Reactor Experiment
see also Hunterston Reactors
see also Latina Power Reactor
see also Leningrad Power Reactors
see also Liquid-Metal-Fuel Reactor
see also Los Alamos Turret Reactor
see also Marcoule Reactors (G-1)
see also Marcoule Reactors (G-2)
see also Marcoule Reactors (G-3)
see also Obninsk Power Reactor
see also Oldbury Reactors
see also ORNL Graphite Reactor
see also Peach Bottom Power Reactor, Unit 1
see also Pebble Bed Reactor Experiment (ORNL)
see also Physical Constants Testing Reactor
see also Reactors, AGR-type
see also Reactors, Magnox
see also Reactors, Sodium-Graphite
see also Saint Laurent-des-eaux Reactor (EDF-4)
see also Saint Laurent-des-Eaux Reactor, Unit 2
see also Sizewell Reactors
see also Sodium Reactor Experiment
see also Tokai-Mura Power Reactor
see also Trawsfynydd Reactors
see also Vandellos Power Reactor
see also Windscale Advanced Gas-Cooled Reactor
see also Windscale Production Reactors
see also Wylfa Reactors
blowers for gas cooled, description of removable pressure vessel mounted, 24:22401(P)
breeding characteristics of high-temperature thorium spherical pile-type, GAPS computer program calculations for optimum, 23:2009(T) (N-68-30369)
breeding cycle of high temperature, minimum doubling time calculation for, 21:46857 (JUL-474-RG)
configuration of concrete pressure vessel-enclosed internal closed-loop gas-cooled, description of, 22:42293(P)
configuration of pressure vessel-enclosed graphite-supported gas-cooled multiple vertical fuel channel, description of, 22:50776(P)
configuration of pressure vessel-enclosed heat exchangers and shielded gas-cooled core of, use of upward coolant flow in, 22:37491(P)
construction of gas-cooled power, standards for steel pressure components in, 22:30183
containment vessel for, radiation testing aluminous concrete, 24:14988 (CEA-CONF-1474)
containment vessels for, evaluation of safety of, 22:30195
control of natural uranium fueled gas cooled, use of computer programs for analysis of, (T), 24:16173 (BNL-50117, pp 347-64)
control rods for, data compilation of reactivity worth of, 23:26031 (JAERI-1173)
control system for gas cooled, description of circulating particle type fuel, 23:52331(P)
control system for gas-cooled, design of, 21:19433(P)
coolant additives for carbon dioxide cooled, decreased coolant radiolytic reaction with graphite by methane, 25:54074(P)
coolant flow in gas-cooled, design of control device for, 21:46986(P)
coolant for carbon dioxide cooled, carbon dioxide—graphite reaction suppression by fluid paraffin hydrocarbon additive in, 23:40350(P)
coolant for, calculation of energy dissipation in carbon dioxide, 24:37007 (CEA-N-1236)
coolant for, catalytic method for purification of carbon dioxide, 24:4052(P)
coolant ionization in, determination of carbon dioxide, (E/T), 24:43855 (CEA-R-3985)
coolant reactions with graphite in, methods of inhibiting carbon dioxide, 23:35995(P)
coolant storage for high temperature helium cooled, description of high pressure steel piping for, 23:31174(P)
cooling system for carbon dioxide-cooled, description of nickel catalyst-bed for methane production from hydrogen and carbon monoxide in, 23:17184(P)
cooling system for gas cooled power, description of baffled core, 23:52314(P)
cooling system for gas-cooled, configuration of closed-loop upward-core-flow, 23:11196(P)
cooling system for gas-cooled, description of core supporting multiple heat exchangers closed loop, 23:23905(P)
cooling system for gas-cooled, description of dual stream fuel and moderator, 23:28483(P)
cooling system for gas-cooled, description of multiple core-extending inlet plenums in, 23:9150(P)
cooling system for gas-cooled, description of nickel catalyst for methane production in carbon dioxide, 22:48663(P)
cooling system for integral gas cooled, description of improved access, 23:43111(P)
cooling system for moderator and pressure vessel of gas cooled, description of bleed duct by-pass, 25:31565(P)
cooling system of gas cooled, description of channeled core passages for, 24:26754(P)
cooling system of gas cooled, EDITH code for dynamic and thermal characteristics of, 24:11179 (CEA-R-3915)
cooling systems for high temperature, kinetics of carbon deposition reactions in, (E/T), 25:10195 (DP-Report-500)
cooling systems in high-temperature gas-cooled power, effects of water and carbon dioxide impurities on carbon transport in, (E/T), 23:13484 (GA-8624)
core assembly of, method of, 21:44954(P)
core configuration for concrete pressure vessel-enclosed graphite-moderated, description of multiple vertical fuel channels in base-supported, 23:1999(P)
core cooling system of, design of pipe coupling for, 21:44955(P)
core design for sodium-cooled, 21:10184(P)
core design of gas-cooled, reduction of radial column differential shrinkage by, 21:19501(P)
core for gas cooled, design of distortion resistant keyed graphite blocks for, 24:22417(P)
core for gas cooled, three dimensional calculation of power density and temperature in, 24:18761 (EUR-4385)
core for gas-cooled, description of half core length spaced keys for prismatic graphite block, 23:28418(P)
core for, design characteristics of spaced graphite columns for, 25:57208(P)
core for, fabrication of drawn and heat treated bars for, 23:23869(P)
core lifetime for graphite-moderated, determination for natural and enriched uranium fuels of, 22:50762
core of multiple column bricks for, under axial compression, 23:23873(P)
core structure for gas-cooled, with multi-layered shield inside core vessel, 22:25054(P)
core structure for, description of interlocking and self stabilizing graphite columns, 25:1859(P)
core structure of gas cooled, description of graphite columns for, 25:57010(P)
core structure of, design of lagging box for, 21:44953(P)
core structure of, design of two-part, 21:44952(P)
core support structure for gas-cooled, design of rigid grid metal plate, 24:22416(P)
core support structure for, design of thermal insulated metal load bearings for corrugated steel plate, 24:22415(P)
core supports for, design of, 21:44956(P)
corrosion of graphite in, method of inhibiting, 21:44902(P)
corrosion of moderator in carbon dioxide cooled, effects of coolant additives on, 23:52342(P)
cover gas system of gas cooled, description of control system for inert, 24:26751 (DUN-SA-118)
description and economics of European, 21:42734
description of gas-cooled dual purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of high temperature gas cooled, 22:42439(P)
description of pressure vessel enclosed gas-cooled, 22:20874(P)
descriptions of French natural-uranium gas-cooled, 21:38482
design and economics of chemonuclear, for nitrogen fixation, 21:15759 (BNL-10628)
design and operation of, 21:12207(P)
design characteristics of gas cooled power, analysis of earthquake resistant, 23:37564
design for ship propulsion with helium turbine, 21:42796
design of 10,000-MW(t) dual purpose, 21:25710 (RL-GEN-925)
design of gas-cooled power, evaluation of integrated, 23:9170 (CEA-CONF-1033)
design of graphite, structural components for, 22:23874(P)
design of, with fuel and moderator in a glass melt, 21:14039(P)
design parameters for water cooled power and process heat, 25:28538
design parameters for water-cooled dual purpose power and desalting, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters in Italy for proposed 620 MW(e) advanced gas cooled, 23:28431
design parameters of gas-cooled, 21:13981 (NP-16364)
development in France of gas cooled, review of, 24:24683
development in France, economic and industrial aspects of, 23:34898

development of natural uranium-fueled gas-cooled, 1967 summary of French, 23:4171 (NP-17597, pp 41-73)
development of power, 25:25963
development of power, economic potential of, 22:18498
development of power, review of, 22:18494
development program in U.S.S.R. for power, review of, 23:17172
economics of 10,000-MW(t) dual purpose, 21:25710 (RL-GEN-925)
economics of natural uranium, 21:27752
economics of natural uranium fueled gas cooled, in desalination plants, 23:49633
economics of natural uranium-fueled gas-cooled desalination, for various distillation processes, 23:28596
efficiency of 500 MW(e) gas-cooled, effect of steam-cycle characteristics on, (T), 22:30144 (EUR-3892)
fission distribution in high power density, effects of graphite crystalline binding on, 22:6071
fission product buildup in, effects on core lifetime of, 22:50762
fuel assemblies for gas-cooled, description of suspended central control rod for bottom-supported vertical multiple, 22:53328(P)
fuel assemblies for, description of multiple parallel rod-type, 22:42539(P)
fuel burnup in advanced gas-cooled, methods for calculating, 21:35541 (AEEW-M-740)
fuel burnup in gas-cooled power, analysis of fuel cycle management for optimum, 22:53291
fuel burnup in power, analysis of plutonium, (E/T), 23:47202 (CNM-R-2(Vol.3), pp 1713-36)
fuel burnup in thermal, manipulation of fission product data for calculation of, 25:12776 (JUL-678-RG)
fuel burnup measurements for, analysis of, (E/T), 22:22772
fuel cladding temperature in gas-cooled, description of aluminum oxide-insulated gas-cleaned thermocouple connections for measuring, 23:11246(P)
fuel cycle analysis for molten-salt breeder, 21:12187
fuel cycle costs for French, total, 23:15638 (CEA-CONF-1093)
fuel cycle economics for high temperature gas cooled power, 24:11139
fuel cycle economics of, 21:30110 (CNEA-183)
fuel cycle economics of gas-cooled natural uranium, 22:24982
fuel cycles for high temperature, economics of uranium-235 and thorium, 24:46064 (DP-Report-336)
fuel cycles for, HELIOS code for optimization of, 24:41028 (DP-Report-309)
fuel element assemblies for high temperature gas cooled, description of end connected multiple section graphite sleeve cluster type, 24:26780(P)
fuel element cladding for gas cooled power, effects on heat transfer of herringbone pattern fins on cylinder shaped, (E), 24:43752 (CEA-N-1329)
fuel element cladding for natural uranium fueled gas cooled, effects of fin configuration on optimum heat transfer of tube shaped, (E/T), 24:20568 (JUL-618-RB)
fuel element deflection in, effect of lateral restraint on creep-induced, 22:220
fuel element for gas-cooled, description of annular, 22:42264(P)
fuel element for, design of grooved, 21:46927(P)
fuel elements for carbon dioxide cooled, description of outer magnesium alloy clad chevron finned inner zirconium alloy clad annular, 23:37550(P)
fuel elements for gas cooled power, design modification in France for, 25:3877
fuel elements for gas cooled power, optimum economic operating limits in France for, 25:3878
fuel elements for gas cooled, description of annular metal brush seal stabilizer for stringer type, 25:1893(P)
fuel elements for gas cooled, description of radial spring bristles for vibration prevention in, 25:34374(P)
fuel elements for gas-cooled, analysis of heat transfer and pressure losses from, 22:1767 (JUL-486-RB)
fuel elements for gas-cooled, description of flow-diverting multiple interlocking-sleeve on-load refueling, 22:53327(P)
fuel elements for Latina-type, fabrication of uranium coated, 21:44910(P)
fuel elements for, description of, 22:18619(P)
fuel elements of gas cooled power, failure in France of cladding of, 25:3879
fuel elements of gas cooled, description of annular spacers for cluster arranged, 24:26781(P)
fuel elements of water cooled, analysis of uranium-236 and neptunium-237 buildup in, 24:43840 (DUN-SA-132)
fuel-cycle economics for urania gas-cooled, 21:30161 (ORNL-TM-1789)
heat exchangers for high temperature gas cooled power, safety problems of, 23:37490
heat transfer system for carbon dioxide-cooled, description of secondary superheat steam producing, 22:22783(P)
instrumentation for gas cooled, description of gas cleaned electrical insulators for in-core, 25:10191(P)
instrumentation in French power, use of, 21:27769
kinetics of gas cooled power, hybrid computer simulator for, 25:1869 (CEA-CONF-1580)
kinetics of natural uranium fueled gas cooled, COREGRAF 2 computer program for, 25:12774 (CEA-N-1344(1))
loading device design for, 21:25681(P)
loading facilities for, with secured fuel element access tubes penetrating concrete pressure vessel, 22:20893(P)
loading machine for, 21:23772(P)
loading machine for gas cooled, design parameters for overhead standpipe, 24:47872(P)
loading machine for gas-cooled, description of vertical overhead pressure-vessel-contained, 23:17195(P)
loading machine for gas-cooled, design of, 21:10192(P)
loading machine for high temperature gas cooled, 25:60031(P)
loading machines for Yugoslav, fabrication of, 22:10087
loading tubes for gas cooled, description of jointed concentric steel, 25:1860(P)
moderator assembly for, means for replacement of blocks in, 25:28828(P)
moderator bricks for, description of juxtapose column-arranged multiple symmetric projection—recess-interconnected, 22:50773(P)
moderator corrosion by carbon dioxide in, effects of silicon hydrides (SiH$_4$ and Si$_2$H$_6$) and ethyl silicate (Si(OC$_2$H$_5$)$_4$) on, 22:30400(P)
moderator corrosion in carbon dioxide cooled, effects of carbonaceous material decomposition on, 23:37498(P)
moderator corrosion in carbon dioxide cooled, effects of gaseous hydrogen and silicon compound additives on, 23:37500(P)
moderator corrosion in gas-cooled, inhibitors for, 22:17158(P)
moderator corrosion in gas-cooled, inhibitors for, 21:18310(P)
moderator damage problems in gas-cooled, 22:6058
moderator distortion in, effects of radiation on, 21:6896
moderator for carbon dioxide cooled, description of coolant ventilated brick type, 24:29003(P)
moderator for carbon dioxide cooled, effects of repeated impregnation on surface area of, 24:11173(P)
moderator of, power-producing, radioinduced damage stresses in, 23:10307
moderator rods for, with minimum transverse thermal expansion in reactor cold zone, 22:3948(P)
moderator stack assembly for, support and keying means for, 25:18108(P)
moderator storage for high temperature helium cooled, description of high pressure steel piping for fluid, 23:31174(P)
moderator stresses in gas-cooled, tables of formulas for calculating, 23:2104 (CEA-R-3518)
moderator structure assembly method for, 23:37798(P)
moderator structure for gas cooled, description of coolant channels in, 24:52942(P)
moderator thermal stability in, distribution of graphite with varying coefficients of expansion for, 22:39942(P)
moderators for carbon dioxide cooled, effects of coolant composition on corrosion of, 25:54032 (A/CONF.49/P-504)
moderators for, description of molding process for 4.5 x 10^{-6} per °C thermal expansion coefficient, 22:25177(P)
neutron cross sections for high-temperature gas-cooled, effects of uncertainties in, 22:5995
neutron diffusion parameters for, analysis of thermal, (E/T), 25:25966 (JUL-690-RG)
neutron flux distribution in gas cooled, adjusted computer program for, (E/T), 25:28654 (CEA-N-1344(2))
neutron flux distribution in natural uranium fueled, rhodium threshold detector measurement of fast, (E/T), 25:23412
neutron flux flattening in, analysis of problems and effects of, 22:50765
neutron flux in heterogeneous, spatial and energy variations of thermal, (T), 24:43842 (DP-Report-357)
neutron flux-shaped spatial modes in gas-cooled Calder Hall-type, stability analysis of, (T), 22:35546
neutron leakage from, pulsed-source measurements on effects of voids on, (E/T), 25:57190
neutron multiplication factors for natural uranium, determination of, 22:50762
neutron pulse propagation in, Fourier analysis of, 21:30118 (CONF-660206, pp 161-86)
neutron resonance absorption in homogeneous, interference effects of thorium-232 and protactinium-233, 25:5958
neutron spectra distribution in large, simple-point kinetics analysis of, (E/T), 23:2013
neutron spectra in natural uranium fueled lattices in, foil activation measurements of thermal, (E/T), 25:15409
neutron spectra in uranium fueled lattices, correlation method for analysis of, (E/T), 24:41067 (RT/FI-(69)54)
neutron streaming in, pulsed neutron analysis of effects of empty channels on, (E/T), 22:25148
neutron transport in, pulsed-source measurements on effects of voids on, (E/T), 25:57189
operation of gas cooled, problems in, 23:43127
operation of power, review of, 22:18494
performance as source for neutrons used in radiography, 22:4373
performance of world-wide gas-cooled power, comparison of, 23:23830
physics calculations for water cooled coupled core, cross spectral density sink frequency for, (E/T), 25:10278
physics calculations for water cooled coupled core, cross spectral density sink frequency for, (T), 25:10275
physics calculations for water cooled coupled core, cross spectral density sink frequency for, (E/T), 25:10279
physics calculations for, methods for solution of heterogeneities in, (E/T), 25:36989 (CEA-N-1398)
physics calculations of, use of digital computers for, 21:40521 (AEEW-M-754)
physics parameters for AGR, calculations of, 21:27729
plutonium buildup in gas-cooled, effects on core lifetime of, 22:50762
power density of gas cooled, three dimensional calculation of, (T), 24:46016
power plant parameters of, trends of, 21:27704
pressure vessel design for, effects of gas coolant channels on, 22:1837(P)
pressure vessel for gas cooled, use of prestressing tendons for securing heat exchanger access closures in prestressed concrete, 25:10198(P)
pressure vessel for gas-cooled power, method for prestressing concrete, 23:28462(P)
pressure vessels for France gas-cooled, design safety recommendations for prestressed concrete, 22:44832(T) (ORNL-tr-1966-e)
pressure vessels for gas-cooled, description of stainless steel pad—foil sandwich thermal insulation for prestressed concrete, 22:44830(T) (ORNL-tr-1966-c)
pressure vessels for, evaluation of safety of, 22:30195
pressure vessels for, scale model testing of prestressed concrete, 23:45075
reactions of carbon dioxide coolant with moderator, use of hydrocarbons to inhibit, 21:46985(P)
safety studies on French, outline of, 22:14176
shielding for gas cooled, support structure for top, 24:18628(P)
shielding for gas-cooled power, calculations for neutron, (E/T), 23:13463 (AERE-R-5773(Vol.3), pp 600-26)
shielding of gas-cooled, description of vertical helical-grooved graphite cylinders and interspaced iron bars for, 23:19484(P)
shielding of, calculation of requirements for, 23:52492
support for, design of, 21:44957(P)
temperature distribution in gas cooled, three dimensional calculation of, (T), 24:46016
thermal shielding for, design of boron-containing cast iron, 21:46989(P)
use for desalination, applicability of, 22:39872
use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
void tubes in, design of, 21:44958(P)

REACTORS, GREAT BRITAIN
see also BEPO
see also Calder Hall Reactors
see also DIDO Reactors
see also Dounreay Fast Reactor
see also Dungeness A Reactors
see also Dungeness B Reactors
see also GLEEP
see also Heysham Power Reactors
see also High-Temperature Gas-Cooled Reactor Experiment
see also LIDO
see also Reactors, AGR-type
see also Reactors, Magnox
see also Windscale Advanced Gas-Cooled Reactor
see also Windscale Production Reactors
see also ZEBRA
accidents at power, emergency action plans for, 24:43684
boilers for gas cooled power, development of, 24:28877
components of, design and fabrication requirements for, 23:34945 (CONF-680625-8)
construction in England and Wales, selection requirements for future, 23:13430
construction of power, description of present and planned, 23:15578
construction of, engineering aspects of, 24:43791 (NP-10130)
construction of, national program for, 22:6042
containment systems for, description of, 22:18458
control of, use of digital computers for, 23:40308
control systems for power, performance of, 25:39260 (IAEA-119, 5p.)
control systems for, design trends in, 21:10171
cost analysis for low and medium output pressurized water and superheating heavy water moderated, small, 25:28720
description of, 21:21738
description of gas-cooled power, 21:38484
design development of power, 21:38483
design features of gas cooled, 24:24698
design features of, review of, 24:13527
design parameters for 250 MW(e) liquid sodium-cooled plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)-fueled PFR, analysis of, 22:35498
design parameters for prismatic fueled high temperature gas cooled power, improvements in, 23:37509
development and economics of power, 21:19408
development during, 1968—1969, 24:38482(R) (NP-18112)
development of 200 and 300 MW(e) heavy water moderated boiling superheating, comparison of economics for, 23:37414
development of advanced gas cooled, 21:38593
development of advanced gas cooled, general discussion of, 23:26013
development of advanced gas-cooled power, description of, 22:48678
development of advanced types, long-term program for, 23:13429
development of AGR and HTR type, review of, 23:28438
development of dual purpose desalination and power, 25:18210
development of dual-purpose power and desalination, summary of program for, 23:49609
development of fast power, analysis of economic, 23:9100 (TRG-Report-1631)
development of fast power, economic objectives for, 23:28417 (TRG-Report-1801(Rev.))
development of gas cooled power, comparison with Germany of economics for, 23:37453
development of gas cooled power, review of, 23:47147
development of gas-cooled power, 22:6060
development of gas-cooled power, description of, 22:46905 (NP-17599)
development of gas-cooled power, review of and predictions for, 23:19469
development of heavy water moderated gas cooled dual purpose desalination and power, review of optimum economic, 24:26820
development of high temperature gas cooled Mark 3, 24:28989 (TRG-Report-1996)
development of high temperature helium cooled, estimates to year 1990 of, 25:54029 (A/CONF.49/P-480)
development of high temperature helium cooled, review of, 24:16136
development of HTR and FR, 21:38594
development of liquid sodium cooled fast, 25:54030 (A/CONF.49/P-481)

development of power, 25:60030
development of power, 25:25852
development of power, 25:36863 (CONF-700653-1)
development of power, 21:27732
development of power, analysis of optimum economic, 24:11113
development of power, predictions to 1995 for, 25:1806
development of power, review of, 23:28437
development of power, review of, 23:49544
development of power, review of, 23:33009
development of power, review of, 23:47211 (CNM-R-2(Vol.1), pp 58-69)
development of power, review of program for, 22:16213
development of power, review of program for, 22:6053
development of pressurized-water maritime, economics for container ship, 23:15703
development of SGHWR-type, economics for, 23:19508
development of sodium cooled fast breeder, 24:4032
development of, economic potential of, 24:28897
development of, industrial structure for, 24:47700
development of, Parliamentary committee report on, 22:35549
development of, review of, 23:28412
development of, review of, 24:33232 (TRG-Report-1926)
development program for fast breeder power, description of economic, 23:21457
development program for fast breeder power, review of, 24:31036 (TRG-Report-1925)
development program for fast liquid metal-cooled, description of, 22:46950
development program for fast, description of, 22:35540
development program for power, description of, 22:44859
development program for power, description of, 23:15574
development program of fast breeder power, description of, 22:37448 (NP-17521)
development program of power, analysis of economics for, 22:42149 (AECL-3067, pp 1-19)
development programs for gas-cooled and water-cooled, description of, 22:42212 (TRG-Report-1695)
development programs for power, description to 1985 of, 22:42231
development programs for power, effects of engineering on, 22:53258 (AERE-PGEC/L-194)
development since 1964, summary of, 25:53899 (A/CONF.49/P-467)
development status of, 22:6043
economics for power, effects on coal industry of, 23:15573
economics of power, 23:28499
electrical systems of, collection and processing of reliability data for, 25:41272 (EUR-4517, pp 251-68)
equipment for, production of heavy, 23:40934
experimental facilities of research, 24:26813
export of, economic factors affecting, 22:14153
filters for power, methods for testing, 22:18461
fuel cycle for AGR type, Magnox, and high temperature gas cooled, comparison of design parameters for optimum, 23:37518
fuel cycles for fast, development program for optimum plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:35500
fuel cycles for, optimization of out-of-pile, 24:11131
fuel cycles for, safety in nuclear materials handling and shipping for, 24:22939
fuel element failure in gas cooled power, performance of detection system for, 24:4018
fuel element failure testing at 400°C for pulsed, 22:40331 (NP-17544)
fuel fabrication for fast, economics of, 22:35499
fuel fabrication for, review of methods for, 24:17350
fuel reprocessing for fast, economics of, 22:35499
fuel services for, description of, 22:47045 (NP-17599, pp 41-4)
fueling of commercial Magnox, economics of on-load, 21:27727
fuels for power, economics of plutonium utilization in, 24:24850
information on UK Nuclear Reactor Program, comments on recommendations concerning, 23:9125
instrumentation for power, performance of, 25:39260 (IAEA-119, 5p.)
loading machines for gas cooled, development and operations of, 24:52936
maintenance of power, review of in-pile, 25:59925
neutron flux monitoring in, trends in instrumentation for thermal, 23:38345 (CONF-681064-5)
operation and performance of, 21:15647(R) (CONF-660450-1)
operation of dual-purpose desalting gas-cooled heavy water-moderated power, analysis of economics of, 23:6014
operation of power, analysis of economics for, 22:44843
operation of power, analysis of optimum economic, 23:37395
operation of power, review of 1962 to 1968, 23:37395
operation since 1964, summary of, 25:53899 (A/CONF.49/P-467)
operations aspects of power, comparison of reactor types for load following, 25:53942 (A/CONF.49/P-479)
operations aspects of research, review of, 25:54179 (A/CONF.49/P-485)
performance of gas-cooled power, 22:48678
performance of power, comparison of, 22:48656 (RT/EC-(68)1)
performance of power, review of, 23:31135
performance of power, review of, 25:53939 (A/CONF.49/P-468)
performance of power, statistical summary of, 24:24724
physics calculations of, use of digital computers for, 21:40521 (AEEW-M-754)
physics characteristics of high temperature, summary of, 25:36986 (AEEW-M-985)
pressure vessels for, stress analysis of prestressed concrete, 22:40335
pressure vessels for, stress analysis of prestressed concrete, 22:40336
pressure vessels for, survey of failures in, 23:26398 (AHSB(S)R-162)
radiation detectors for gas cooled and liquid sodium cooled power, performance of high temperature, 25:39258 (IAEA-119, 4p.)
radiation protection in power, analysis of standards and procedures for, 22:53313
refueling program for power, health physics experience in on-load, 23:13530
safety analysis for liquid sodium cooled fast, 24:31088
safety and siting policy for, summary of, 24:13504
siting of power, safety evaluation policies and procedures for, 24:50058
siting of power, safety procedures and requirements for, 24:1918 (CONF-681101-39)
siting of power, standards for, 24:50059
siting of, engineering aspects of, 24:43791 (NP-10130)
siting of, numerical evaluation of risk in, 22:18433
siting policies for, review from industrial point-of-view of legal framework and, 23:37365 (CONF-681129-1)
siting policy for prestressed concrete-contained gas-cooled power, presentation of new, 23:15578
siting policy for, results of application of practical, 22:18434
thermodynamics of, review of two phase heat transfer development program for, 25:48247 (AEEW-M-1025)
turbine design for power, review of, 22:18487

REACTORS, HEAVY WATER-MODERATED
see also Ames Research Reactor
see also Argonne Mighty Mouse Research Reactor
see also Argonne Research Reactor
see also Atucha Power Reactor
see also Bohunice Power Reactor, Unit 1
see also Brittany Power Reactor (EL-4)
see also Brookhaven Beam Research Reactor
see also CANDU Reactor
see also Carolinas-Virginia Tube Reactor
see also DIDO Reactors
see also Gentilly Power Reactor
see also Halden Boiling Reactor
see also Heavy Water Organic-Cooled Reactor
see also Homogeneous Reactor Experiment
see also Homogeneous Reactor Test
see also Japanese Advanced Thermal Reactor
see also JEEP Reactor
see also JEEP Reactor-II
see also Kalpakkam Power Reactors
see also Karachi Power Reactor
see also Lucens Reactor
see also MIT Research Reactor
see also MZFR (Siemens Reactor)
see also NBS Research Reactor
see also Neutron Production Reactor
see also Niederaichbach Power Reactor
see also NPD Reactor
see also NRU Reactor
see also NRX Reactor
see also ORGEL Reactor
see also Pickering Power Reactor, Unit 1
see also Pickering Power Reactor, Unit 2
see also Plutonium Recycle Test Reactor
see also Pressurized Heavy Water Reactor
see also Prototype Advanced Thermal Reactor
see also RAPP Power Reactor
see also Reactors, CANDU-type
see also Saclay Reactors (Aquilon)
see also Saclay Reactors (EL-2)
see also Saclay Reactors (EL-3)
see also Savannah River Components Test Reactor
see also Savannah River Power Reactor Experiment
see also Savannah River Production Reactors
see also Savannah River Reactor Mockup
see also SLEEP Reactor
see also Spanish Reactors (DON)
see also Steam-Generating Heavy-Water-Moderated Reactor
see also Swedish Reactors (R-0)
see also Swedish Reactors (R-3)
see also Swedish Reactors (R-4)
see also Vulcain Maritime Reactor
see also Whiteshell Reactor No. 1
see also ZEEP
see also ZOE Reactor
bibliographies on foreign and domestic power, 23:17175 (BNWL-936(Vol.1))
bibliography on power and research, 24:22239 (STI/PUB-21/37)
blowdown analysis for, use of dimensional analysis technique for, 22:39808
boiler dynamics of pressure-tube, (T), 22:6048
burnup processes in cell of, computer code for calculations of, 21:23621 (UJV-1736)
cell parameters for, description of mockup for measuring, 22:50818
characteristics of thorium-fueled ORGEL-type, 22:24937 (CONF-660524-, pp 119-28)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
containment for gas-cooled, cost and efficiency of, 21:42781
containment structures for power gas-cooled, analyses of types of, 22:18449
containment structures for, advantages and economics of using heated walls in prestressed concrete, 23:28533
containment system of boiling power, design parameters for pressure suppression, 24:20586
control elements and systems for, review of, 23:31159 (BNWL-1031)
control elements for gas-cooled power, reactivity worth calculations for vertical movement of horizontal grid, (T), 23:26032 (ZJE-42)
control method for, description of neutron spectral shift, 22:7906(P)
control of, effects of positive power coefficients on, 22:14174
control rod calibration in, direct reactivity meter for, 21:40588
control rod design without mechanical drive for natural uranium fueled gas-cooled, 22:1826
control rod drives for, description of pneumatic, 22:37470(P)
control system dynamics for TR-O, analysis of optimum hydraulic, (T), 22:44838 (UJV-1944)
control system for, purification of boric acid solution in, 21:46973(P)
control system for, review of, 21:17502
control system for, use of heavy water variable-volume concentric cylinders for, 22:18534(P)
control system of 500 MW(e) boiling, use of on-line digital computer for, 24:20548
control system performance for Canadian natural uranium, 21:34128
control systems for intrinsically unstable, development of direct digital, (T), 25:46334 (RT/EL-(69)7, Paper 5)
control systems requirements for, 21:34523 (ORNL-4091, pp 136-82)
coolant change from heavy water to gas cooled to light water during refueling operation, method for, 25:1864(P)
coolant economics in Canada of, analysis of heavy water, 22:30250
coolant flow and thermodynamics of, calculations of, 21:19427
coolant flow and thermodynamics of, three-zone calculation of, 21:19428
coolant for boiling power, steam drying for recovery of, 24:20565
coolant for, silicon detector for monitoring nitrogen-16 in, 24:39270
coolant leak detector for, description of color changing, 25:10206(P)
coolant loss accidents in, calculation of containment pressure transient during, 25:57087 (CONF-710302-(Vol.1), pp 436-51)
coolant loss conditions in organic cooled ORGEL-type, stress analysis of core during, (E), 25:1907 (EUR-4493)
coolant pumps for, description of glandless flywheels for, 25:46161(P)
coolant quality in boiling power, calculation methods for, 24:20566
coolant reconcentration in boiling power, procedures for optimum, 24:20567
coolant replacement process for spent fuel handling in, 21:19500(P)
coolant separation from alumina by ion exchange, 21:25620 (CEA-R-2990)
coolant voiding accidents in fast, method for analysis of, 25:57082 (CONF-710302-(Vol.1), pp 215-40)
coolants for breeder, comparison of various, 24:24823
coolants for pressure tube type, nuclear properties of carbon dioxide, heavy water, and light water, (T), 25:10205
coolants for pressure-tube type, comparison of carbon dioxide, heavy water, and boiling water, 25:18126
cooling circuits for carbon dioxide cooled, analysis of advantages and disadvantages of integrated primary, 23:28540
cooling system for conceptual 600 MW(e), design parameters for, 23:28475
cooling system for emergency shutdown of water-cooled boiling, description of perforated central-tube lateral-flow water, 22:42279(P)
cooling system for gas-cooled power, effects of scram conditions and main blower failures on dynamics of, 23:26042 (ZJE-34)
cooling system for heavy water-cooled boiling, description of pressure control by steam-cooled moderator tank in, 22:39804(P)
cooling system for heavy water-cooled boiling, description of indirect cycle, 23:23904(P)
cooling system for, method for inhibition of corrosion of stainless steel in, 24:25639 (DP-1089)
cooling system of closed-loop heavy water-cooled, description of, 22:37488(P)
cooling system of pressure-tube type, inspection and testing procedures for, 24:29009
cooling system of, description of ion exchanger for purification of, 22:20827 (ZFK-RN-31, pp 98-109)
cooling systems for heavy water cooled, design of indirect cycle, 25:25977(P)
cooling systems for power, comparison of light water and heavy water, 23:13494
cooling systems of boiling power, PRETOR-6 computer program for thermal and hydraulics performance of, 24:20563
core configuration of water-cooled superheating power, description of improved, 22:44837 (TRG-Report-1692)
core design for light-water cooled, with means for equalizing coolant and moderator pressures, 21:46910(P)
core for pressurized, maximum unit power in, 25:51027 (EUR-4363)
core materials of, economic evaluation of, 22:35528
core melt-through accident in fast breeder, safety aspects and containment methods for, 25:57093 (ORNL-TM-3504)
core of gas-cooled, effects of lattice parameters on resonance absorption in, 22:10003 (ITEF-518)
core parameters for boiling, three zonal calculation method for thermal and hydraulic, 22:10015
core parameters for natural uranium fueled, analysis of, (E), 22:22765
core perturbation in square lattices of, effects on neutron fluxes, 21:5639
core physics measurements for superheating calculation of model, (E/T), 22:22840
core support for pressure tube type, description of upper and lower horizontal shielded flange, 23:45065(P)
cost analysis for small and medium power superheating, 25:28720
costs for, evaluation of investment, 22:35528

critical heat flux for conceptual 250 MW boiling, effects of heated and unheated central rod on 19-rod bundle-type core, 23:17190 (TID-24956)
critical height in TR-O, effects of conical reflector and surfaced fuel elements on, (T), 25:23345 (UJV-2387-RF)
criticality measurement on Ispra, analysis of, (E/T), 22:22839
criticality measurements in, comparison of spectral analysis and maximum likelihood methods for, (E/T), 25:10091 (NP-18595)
criticality of superheating thermal power, LILLY computer program for, 23:31152 (AEEW-M-834)
description and economics of European, 21:42734
description of boiling, 22:30266
description of dual- and single-purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of French carbon dioxide-cooled 600 MW(e), 22:30241
description of graphite insulated pressure tube type, 22:20877(P)
description of Japanese boiling water-cooled plutonium self-sustaining, 22:30238
descriptive parameters of, tabulation of, 21:27723
design, 21:19426
design and analysis of pressure vessels for 250 MW(e), 21:4650
design and development of thorium-fueled 1000-MW(e), economics of, 21:5600(R) (BAW-393-8)
design and economics of, 21:23689(P)
design and economics of, for desalination, 21:15760(R) (TID-23511)
design and operation of, use of PRTR operating experience for, 21:38661 (BNWL-SA-1269)
design calculations of boiling water cooled, UoV computer program for, 24:20641
design characteristics of, 22:3836 (NP-16983)
design characteristics of gas cooled power pressure tube and integrated, comparison of, 23:28429
design characteristics of pressure tube, 25:54031 (A/CONF.49/P-483)
design characteristics of, state-of-the-art survey of, 23:1992 (BNWL-854)
design concept for advanced converter, in Brazil, 23:43080 (CONF-670338, pp 215-28)
design criteria for heavy water-cooled vertical pressure-tube, description of, 22:30235
design evaluation of organic-cooled thorium-fueled, 21:35565(R) (BAW-393-10)
design of, 21:5648(P)
design of 10,000 Mwt sodium, 21:40664
design of boiling power, effects of seismic criteria on, 24:20585
design of CANDU-BLW type, 21:46896
design of fluidized fuel, 21:4396(P)
design of heavy water cooled, with flexible steam chamber connected to moderator tank, 24:4027(P)
design of integrated carbon dioxide cooled, evaluation of, 23:2005
design of organic cooled, with coolant collector compartment below the core, 22:1822(P)
design of organic-cooled thermal, THREDES computer program for, 23:21448 (AI-CE-Memo-11)
design of self controlled boiling light water-cooled, 23:29085(P)
design of uranium—zirconium hydride fueled, with controlled negative temperature coefficient of reactivity, 21:46923(P)
design of water cooled pressure-tube, with increased core power density, 25:60033(P)
design of water-cooled variable temperature moderator, 22:37485(P)
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, review of, 22:14163
design parameter of heavy water cooled boiling, 25:28645(P)
design parameters for 1000 MW(e) boiling light water cooled, 24:13526 (WASH-1086)
design parameters for 400 MW(e) boiling power, conceptual, 23:15616
design parameters for 80 to 300 MW(e) pressurized, analysis of optimum economic, 23:37405
design parameters for 87 to 150 MW(e) pressurized Vulcain type, analysis of optimum economic, 23:37410
design parameters for boiling Yugoslav power, 22:25019
design parameters for carbon dioxide cooled power, calculation of optimum, 23:49542(T) (NSJ-tr-151)
design parameters for conceptual pressure tube type steam—water cooled, review of hydrodynamic and thermodynamic, 24:13522 (CISE-R-154)
design parameters for downward coolant flow underneath core loaded pressure tube type, 23:45057(P)
design parameters for gas cooled power, 24:22384(P)
design parameters for gas-cooled natural uranium fueled power, analysis of optimum economic, 23:26020 (ZJE-33)
design parameters for gas-cooled, economic aspects of physical and thermodynamic, 22:1825
design parameters for plutonium-fueled boiling light-water-cooled, 22:22702 (JAERI-1151)
design parameters for power, comparison of, 24:18571
design parameters for superheating boiling desalination and power, analysis of optimum economic, 25:28642
design parameters in Czechoslovakia of 500 MW(e) gas-cooled, description of optimum conceptual, 23:26021
design parameters in Japan for advanced thermal 165 MW(e) prototype water-cooled boiling, 23:13420
design parameters of, 21:13981 (NP-16364)
design parameters of 500 MW(e) boiling, calculation of optimum economic, 24:20543
design parameters of ORGEL-type, digital computer programs for, 23:23857 (EUR-4211)
design parameters of, analysis of optimum economic, 24:2003
design with pressure vessel cooling, 21:46915(P)
design with self-regulating cooling and control system for, 21:40647(P)
development and economics of, in Canada and India, 21:19408
development criteria for, analysis of economic power, 21:40520 (AECL-2827)
development for thorium—uranium cycle, 21:30207
development in Brazil of thorium-converter, engineering and economics of, 22:30249
development in Canada of 100 to 400 MW(e) CANDU type, review of economics for, 23:37412
development in Czechoslovakia of gas-cooled power, analysis of future, 23:11119(T) (JPRS-47209, pp 57-73)
development in Czechoslovakia of gas-cooled, analysis of optimum design for, 22:30231
development in France, economic and industrial aspects of, 23:34898
development in Japan of advanced thermal prototype 200 MW(e) water cooled boiling, 23:33033
development in Japan of boiling water-cooled advanced thermal, review of, 23:28421
development in Japan of conceptual 165 MW(e) Advanced Thermal Reactor, review of, 23:43091
development in Japan of, description of O-Arai Engineering Center for, 24:50193
development in Sweden of 100 to 300 MW(e) boiling, economics for, 23:37401
development in Sweden of boiling, review of, 24:24788
development in U.K. of 200 and 300 MW(e) boiling superheating, comparison of economics for, 23:37414
development in U.K. of water cooled, for desalination and power, 25:18210
development in Yugoslavia of, economics for, 22:24995
development in Yugoslavia, conditions for, 21:15691
development of boiling, computer programs for optimum designs in, 22:30258
development of Canadian, engineering aspects of, 21:13944 (AECL-2830)
development of CIRENE concept, 23:13437
development of economic power, review of, 23:13435
development of French, 22:1805
development of gas cooled dual purpose desalination and power, review in U. K. of optimum economic, 24:26820
development of German, 22:1806
development of German power, review of, 23:13436
development of heavy water-cooled thorium-converter, fuel cycle economics for, (E/T), 22:30248
development of heavy water-cooled uranium oxide (UO_2) -fueled 600 MW(e) prestressed concrete-contained, description of, 22:30234
development of power, 25:25963
development of power, economic potential of, 22:18498
development of power, economics of international, 22:25038
development of power, present status of world-wide, 24:22253 (AECL-3558)
development of power, review of, 23:13389
development of power, USAEC—AECL program for, 22:20808(R) (DPST-68-83-2)
development of prototype water cooled, facilities in Japan for, 24:31040
development of steam-generating power, design parameters for economic, 22:35495
development of Swedish boiling, 22:1807
development of Swedish power, review of, 23:13438
development of U. S. advanced, analysis of 1968 to 1974, 23:15567
development of Western Europe, review of, 22:18496
development of zirconium-base alloy for pressure tubes for, 21:39577(P)
development of, CIRENE program for, 21:23652
development of, evaluation of present state of, 24:9129
development of, status of, 25:60019
development prediction in U.S. during 1970 to 2020, systems analysis for optimum economic, 25:10095 (WASH-1098)
development program for 1000 MW(e) organic-cooled, description of, 22:50741 (WASH-1083)
development program for Canada water-cooled boiling natural uranium-fueled, description of, 23:2003
development program for India, description of, 22:30242
development program for South African liquid sodium-cooled natural uranium-fueled 1000 MW(e), description of, 22:27421
development program for U. S. 1000 MW(e) power, effects of fuel supply on optimum economic, 22:48703
development program for Yugoslavia power, analysis of optimum economic, 22:48667
development program in France of, description of, 22:30251
development program in Japan of boiling water-cooled 200 MW(e) thermal, description of, 22:30243
development program in Japan of prototype boiling power, 23:17181
development program in U. S. of organic-cooled 1000 MW(e), 22:30244
development program in US of water-cooled, description of, 22:30245
development programs for carbon dioxide-cooled breeder, description of Czechoslovakian, French, and German, 22:39832
development programs for Europe power, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
development programs for power, review of, 24:18571
development prospects for, 24:45992 (AECL-3660)
dry-out margins for superheating boiling power, analysis of optimum economic, 23:37563 (RD/B/N-1285)
dump valve design for, 21:27848(P)
dynamic characteristics of thorium converter, detailed parametric analysis of, 23:52313 (JUL-584-RG)
economic analysis of, tabulated, 22:3839 (NP-16986)
economic and technical evaluation of, 23:37552 (WASH-1087)
economic aspects in Argentina, 22:3840 (NP-16988)
economic aspects of breeder, cost comparisons for various fuel cycles for evaluating, 23:43126
economic evaluation of, 21:27742
economic evaluations for reference 1000 MW(e) indirect cycle, capital and unit energy, 22:39736 (BNWL-802)
economics for power, 24:18571
economics for, review of, 22:14163
economics in Canada of power, effects of heavy water characteristics on, 24:11116
economics in Europe of uranium fueled, 21:44880
economics in India for medium power, 25:28580
economics of, 22:3811 (AECL-2946)
economics of breeder, 22:18482
economics of Canadian, 21:15701
economics of CIRENE, 21:42763
economics of dual-purpose steam-generating and power, 22:42350 (TRG-Report-1691)
economics of power, comparison of various reactor types to, 24:50149
economics of power, comparison with other common reactor types of, 25:20749
economics of power, in Czechoslovakia, 22:50747 (ZJE-26)
economics of power, review of, 21:23655
economics of, comparison of fast reactor economics to, 24:29024 (AECL-3066)
economics of, comparison with other reactor types of, 25:15240
economics of, predictions of future, 23:37443 (AECL-3369)
electricity production from, evaluation for Austrian, 23:5982
engineered safeguards of 500 MW(e) boiling, design requirements for, 24:20584
evaluation of small core, 21:32018
exhaust system for CIRUS, analysis of release rate for tritium from, 21:46955
experimental facility for, nitrogen gas cooling system for neutron activation analysis, 24:7244
fabrication of uniform parts for construction of, method for, 22:18472
feasibility study for Brazilian thorium, 22:3818 (DER-7(Rev.))
fissile materials control at gas-cooled, IAEA safeguards methods for, 23:50100
fuel assemblies for heterogeneous heavy water-cooled, description of multiple moderator-spaced, 22:42274(P)
fuel assemblies for, description of jacket-enclosed thermal-insulated multiple rod-type, 22:42253(P)
fuel assemblies for, heat transfer analysis of, 21:1504 (DP-1024)
fuel assemblies for, performance analysis for optimum configuration of uranium oxide (UO_2), 22:30264
fuel assemblies in Canadian, analysis of performance of Zircaloy-2 clad uranium oxide (UO_2), 22:30263
fuel burnup analysis of plutonium-fueled, 21:14118
fuel burnup in gas-cooled power A2, effects of plutonium-239 and plutonium-240 concentrations on thermal and epithermal spectra and, (T), 23:11186 (UJV-2027)
fuel burnup in Sweden, comparison of computer programs for point and cell, 23:34943 (RISO-M-897)
fuel burnup in, effects of fuels and physics parameters on calculation of, (T), 22:44866
fuel burnup in, effects on physics parameters of, (T), 25:51046 (JAERI-13724)
fuel burnup measurements for, analysis of, (E/T), 22:22772
fuel burnup performance of power, analysis of cycle management for optimum, 22:53291
fuel channel failure in organic cooled ORGEL-type, thermodynamic effects of, (E), 25:1907 (EUR-4493)
fuel channels for heavy water-cooled, description of shielded tubular top-loading, 22:37608(P)
fuel channels for, description of gas-insulated flow-restricting pressure tube-enclosed, 23:6010(P)
fuel cladding for gas-cooled power, testing beryllium, 22:15218
fuel cladding for, mechanical properties and testing of, 23:41644
fuel costs and requirements for 10,000 MW(e) organic-cooled, 23:13514
fuel cycle analysis and costs for crossed-progeny systems, 21:21670
fuel cycle development for organic-cooled, thorium, 21:13948(R) (BAW-393-9)
fuel cycle economics for, 22:3812 (AECL-2947)
fuel cycle economics for boiling water cooled Cirene type, economics of, 24:11140
fuel cycle economics for power, 23:21483 (NIJS-P-228)
fuel cycle economics in Argentina, methods of calculation of, 22:3931 (NP-16987)
fuel cycle economics of, 21:30110 (CNEA-183)
fuel cycle economics of natural uranium fueled, comparison with boiling light water reactors of, 24:11127
fuel cycle efficiency in Romania, model for analysis of, 25:20750
fuel cycle for steam generating pressure tube power, calculation of optimum economics, 25:54134 (A/CONF.49/P-497)
fuel cycle for, analysis of optimum economic, 23:49563 (CONF-681219-2)
fuel cycle for, analysis of optimum thorium, 22:35492
fuel cycle for, economics of re-use, 22:42162(R) (BNWL-254)
fuel cycle for, economics of thorium—uranium-233, (T), 25:20746 (JUL-644-RG)
fuel cycle management for 1000 MW(e) Pickering-type, computer program analysis of optimum economic, 22:53264 (BNWL-833)
fuel cycle performance for 1000 MW(e), analysis of optimum economic, 22:30255
fuel cycle performance for boiling and pressurized, analysis of optimum, 22:30260
fuel cycle performance for water-cooled 500 MW, analysis of optimum economic, 22:30261

fuel cycle performance for, analysis of long-term optimum economic, 22:30254
fuel cycle performance for, analysis of optimum, 22:30252
fuel cycle performance in U. S., analysis of optimum economic, 22:30253
fuel cycle performance of organic-cooled 1000 MW(e), analysis of economic thorium oxide (ThO_2), (E/T), 22:30247
fuel cycle schedules to 1995 of, analysis of optimum, 22:35535
fuel cycles for organic cooled, economics of thorium, 25:54125 (A/CONF.49/P-157)
fuel cycles for power, effect of neptunium-237 and uranium-236 on value of feed uranium in, (T), 22:46903 (MIT-2073-7)
fuel cycles for, analysis of optimum economic, 25:25988
fuel cycles for, description of optimum uranium-233, 22:35497
fuel cycles for, economics of, 21:8120 (CONF-660220-3)
fuel cycles in Canada of, economics of plutonium, 24:11143
fuel cycles in, economics of thorium, 22:37506
fuel development and processing for, 21:30503 (ORNL-4109)
fuel element assemblies for boiling, COLIBRI code for subchannel thermal performance analysis in, (E/T), 25:37003 (CONF-710317-1)
fuel element assemblies for power, HEROIC computer program for physics calculations of cluster type, 24:33241 (EUR-4464)
fuel element assemblies for SGHWR-type, design of, 22:14632(P)
fuel element assemblies for, design of pressure tube, 21:44905(P)
fuel element assemblies for, design of urania rod for economic high power, 21:44812 (AECL-2945)
fuel element assemblies of boiling water cooled, description of pressure tube, 25:54106(P)
fuel element assembly for, description of organic-cooled finned multi-rod, 22:20866(P)
fuel element cycle management for power, calculation of optimum, 25:3866 (CEA-N-1379)
fuel element design for, 21:34179(P)
fuel element design for pressure tube, with continuous thermal shield, 21:19442(P)
fuel element designs for dual-purpose power-desalination organic-cooled, economic evaluation of conceptual, 23:21537 (AI-CE-Memo-59)
fuel element fabrication for, Zircaloy-clad uranium-core, 21:14808
fuel element failure in fast, effects on safety of propagation of, 25:57089 (GEAP-13639-2)
fuel element failure in fast, effects on safety of propagation of, 25:57088 (GEAP-13639-1)
fuel element failure in U. S. power, performance of detection system for, 24:4019
fuel element management in boiling power, ROTOR computer program for optimum, 24:20570
fuel element replacement in heavy water cooled pressure vessel type, method for direct visual observation of, 25:1864(P)
fuel element shock absorbers for gas cooled power, description of stress failing flared sleeve, 23:45090(P)
fuel element surface temperature in, determination of safety factor for, (T), 23:52387(T) (JPRS-48331, pp 658-91)
fuel elements for boiling and pressurized, fabrication of uranium dioxide by vibratory compaction, 22:28891
fuel elements for Canadian, heat transfer rates in, 21:1517
fuel elements for gas cooled, heat transfer characteristics of smooth and finned rod type, 25:41414 (ZJE-98)
fuel elements for gas-cooled, fabrication of silicon oxide (SiO_2)—uranium oxide (UO_2) cylindrical rod, 22:30262
fuel elements for heavy water cooled thorium breeder, development of prototype, (E/T), 25:10209 (JUL-654-RG)
fuel elements for power, calculation of burnout heat flux in cluster type, 24:46056
fuel elements for use with pressure tubes in, design of, 22:1899(P)
fuel elements for, description for interchangeability with light water reactors of, 24:35945(P)
fuel elements for, description of digital system for automatic detection of failed, 23:21493
fuel elements for, design of spherical, 21:44911(P)
fuel elements for, development and fabrication of tubular Zircaloy-clad uranium dioxide, 24:8169 (DP-997)
fuel elements for, fabrication methods for, 22:12486
fuel elements for, high burnup to 10,000 Mwd/t of natural and enriched uranium, 22:1830
fuel elements for, optimal design of longitudinally finned, 22:16320 (UJV-1840)
fuel elements for, production of uranium, 23:41713
fuel elements for, thermal calculations for tubular, 22:16319 (UJV-1839)
fuel elements for, WELWING computer program for neutron buckling calculations of annular shaped, 24:28994 (PEL-183)
fuel elements of gas cooled power, PBS-1 computer programs for burnup calculations of cluster type, 24:46052
fuel elements of, effects of burnup on thermal neutron flux distribution in, (T), 24:31043 (UJV-2352-R,T)
fuel fabrication costs and evaluation for organic-cooled, 21:14113 (ORNL-3970, pp 204-8)
fuel for, economics and performance of metallic uranium, 22:8754
fuel lattice uranium-238 to uranium-235 fission ratios for, MONTE computer program for one-group Monte Carlo calculation of, 23:9166
fuel loading of, use of depleted uranium from light water reactors for, 23:11240
fuel loading schemes for, REFLOS computer program for optimum, 23:33034 (EUR-4250)
fuel management for steam-generating, analysis of optimum schemes of, 22:30259
fuel processing for, 21:45199 (ORNL-4145, pp 29-57)
fuel production in, economic aspects of plutonium, 22:5914 (AECL-2944)
fuel recycle cost studies for thorium-fueled HWOCR's, 22:23854 (CONF-660524-, pp 157-84)
fuel slugs for, surface finishing of, 21:36901 (AI-CE-48)
fuel transfer in tandem boiling water-moderated reactor at 400 MW(e), 21:42776
fueling of, comparison with light water moderated reactors, 22:12004 (AECL-2790)
fuels for power, fabrication and performance of ceramic, 24:43751 (BNWL-1435)
fuels for thorium converter, physics and economics of plutonium recycling in, 24:43769
fuels for, isotopic composition of natural uranium, 21:21621 (AECL-2631(Rev.))
heat exchangers for, design of pressure-tube supports for, 21:46978(P)
heat transfer between channels and moderator in, 23:26449
heat transfer in gas-cooled, analysis of natural convection, 23:31502
heat transfer in, design for improved, 23:29085(P)
kinetic characteristics of thorium converter, detailed parametric analysis of, 23:52313 (JUL-584-RG)
kinetics equations for enriched uranium fueled, analysis of Keepin and Cox, 22:24965 (IS-1808)
kinetics measurements of optimum performance, calculational models for, (E/T), 22:30257
kinetics of Yugoslav RB, determination using ROB-1 reactor oscillator, 21:19489
kinetics of, research on, 21:23659
lattice cell resonance parameters for gas cooled, P-1 transport method for calculation of, 23:47184 (ZJE-48)
lattice measurements on mixtures of urania and thoria rods, 21:2884
lattice parameters for, physical model for calculation of, 21:38726
lattice physics calculations in, PROCELLA code for, 22:37555 (EUR-3921)
lattice physics measurements in natural uranium-fueled, control and fuel requirements of critical assembly for, (T), 22:39873 (AAEC/TM-433)
legal aspects in Argentina, 22:3840 (NP-16988)
loading machine for steam generating pressure tube type, description of hydraulic actuated telescopic ram, 24:50133(P)
loading machine for, design parameters of on-load magazine type, 24:5529(P)
loading machine for, with ball-driven members for unlocking fuel channel seals, 25:44214(P)
loading machine for, with means for separately handling fuel string and closure plug assembly, 25:44216(P)
loading machine for, with means for uncoupling and securing fuel elements with separable sections, 25:44212(P)
loading machine for, with means to compensate for misalignments between machine head and fuel channel, 25:44215(P)
loading machine of boiling power, design requirements for, 24:20571
loading machines for pressure tube type, design parameters of liquid cooled, 24:11192(P)
loading machines for Yugoslav, fabrication of, 22:10087
loading systems for 17, description and operation of, 22:46921 (TID-24679(Vol.2))
loading systems for 17, operation and performance of, 22:46920 (TID-24679(Vol.1))
material buckling in organic-cooled, uranium-233-fueled, (E/T), 21:8101
materials for, properties of zirconium alloy, 25:58217 (ZJE-107)
moderator activity monitoring procedures for gas-cooled, (E), 24:13585
moderator circuits of gas cooled, determination of corrosion product radioactivity in, 23:40361
moderator for, development of columns for production of heavy water, 25:10764
moderator level detector in TR-O, device for measuring performance of, 25:23346 (UJV-2388-A)
moderator level in, design of microwave indicator for determining, 23:20054(P)
moderator monitoring in, determination of radioactive impurities by, 22:25146
moderator production for, summary of, 25:26076 (INIS-mf-23)
moderator purification for, description of aluminum removal using anionic and cationic ion exchangers for, 22:48673(P)
moderator reactivity coefficients for, comparison of methods for measurement of, (E/T), 24:11319
multiplication factor measurements for multi-fueled, use of Methuselah code for, 22:37477
multiplication factors for natural uranium lattices in, WIMS code analysis of effective, (T), 25:20818 (AAEC/TM-553)
neutron absorption in diphenyl-cooled natural-uranium, resonance, (E), 22:5818 (RT/FI-(67)13)
neutron absorption resonance escape probabilities for, method for calculating, 22:1578
neutron buckling measurements in lattices of, theoretical analysis of, 21:31962
neutron buckling measurements in superlattice in ZED-2, 22:33047
neutron collision probabilities in natural uranium fueled lattices in, effects of axial leakage on, (T), 25:48328 (AAEC/E-215)
neutron density ratios in, comparison of calculated and experimental thermal, 22:10086
neutron dispersion law for natural uranium subcritical, 21:30117 (CONF-660206, pp 135-59)
neutron filter assemblies for production of hard resonance spectrum in, design of lithium, 25:41591
neutron fission in uranium-235 fueled systems, delayed neutron parameters for, 24:33536
neutron fission reactions in uranium-235 fueled, delayed neutron and photoneutron parameters for, (E/T), 25:18242
neutron flux control in, analysis of spatial, 23:4190
neutron flux distribution in gas cooled, calculation of fine structure intermediate, (T), 23:43194 (ZJE-47)
neutron flux distributions in ORGEL-type, comparison of THIHET and EQUIPOISE computer programs for, 23:23876 (EUR-4205)
neutron flux fine structure calculation in, heterogeneous source-sink method for thermal, 25:8132
neutron flux in gas cooled, integral transport theory modifications for, (T), 23:43098 (ZJE-50)
neutron flux in natural uranium fuel rod cluster geometry in, multigroup collision probability calculations of, 24:31126 (AAEC/E-205)
neutron flux spectra in, measurement of fast, 21:5688 (IS-1448)
neutron fraction in pressure tube type, effects of photonuclear reactions on delayed, (T), 25:51045 (JAERI-13699)
neutron parameters in, performance of improved rod-drop method for measurement of delayed, (E/T), 23:47185
neutron parameters of, delayed, 21:8080
neutron resonance absorption in gas-cooled, effects of lattice pitch on, (T), 22:44806(T) (ANL-Trans-652)
neutron resonance escape probability for, (E/T), 24:16166
neutron slowing down in thorium oxide (ThO_2) lattices in, (E/T), 24:33538
neutron spectra in uranium oxide (UO_2) fueled, analytical two-group formalism for epithermal, (E/T), 25:10320 (AE-405)
neutron spectra measurements in, 21:38655 (AECL-2707)
neutron streaming in channels, (T), 21:25724
neutron yield in pressure tube type, effects of photoreactions on effective delayed, (T), 25:18118
operating aspects of boiling, analysis of load following, 25:53942 (A/CONF.49/P-479)
operation and performance analysis of Vulcain Reactor, 21:46930
operation and performance of, review of, 22:14163
operation economics for pressure-tube, 22:30235
operation economics of 200 MW(e) dual-purpose desalination boiling, 22:12082
operation experiences in Canada of power, review of, 24:18567
operation experiences of power, review of, 24:18568
operation of 140, 500, and 1000 MW(e), analysis of economic optimum, (T), 23:2051
operation of U. K. dual-purpose desalting gas-cooled power, analysis of economics of, 23:6014
operation of, economics for, 24:49997
operation on low-enrichment fuels, economics of, 21:12177
performance characteristics of power gas-cooled and boiling, comparison of, 23:15613
performance of boiling light water cooled, with natural uranium or plutonium-enriched natural uranium fuel cycles, (T), 25:8081(T) (NSJ-tr-162)
performance of carbon dioxide cooled advanced converter, with natural uranium and plutonium-enriched natural uranium fuel cycles, (T), 25:8081(T) (NSJ-tr-162)
performance of prototype power, comparison of, 24:22253 (AECL-3558)
performance of, design analysis for economic, 22:30158 (STI/PUB-163)
performance of, systems design for economic, 22:32903
physics analysis of, review of methods for, 23:45125 (BNWL-1119)
physics analysis of, use of ENDF/B data for, 24:33540
physics calculations for single rod natural uranium fueled, performance of CAROL and DUMLAC computer programs for, (E/T), 24:16167
physics calculations for, use of HWOCR-SAFE code for, 22:32886
physics characteristics of highly enriched, analytical procedures for, (E/T), 25:10318
physics measurements for boiling plutonium-enriched natural uranium-fueled superheating, 22:30239
physics measurements for conceptual gas-cooled power, analysis of optimum, 22:53330
physics measurements for dual-purpose natural uranium oxide (UO_2)-fueled, description of, 22:30240
physics measurements for natural uranium fueled fog cooled, effects of core configuration on, (E/T), 24:4040 (CISE-R-116)
physics measurements for uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled, 22:18471
physics measurements for, analysis of computer programs for calculating, 22:22766
physics measurements in, computer programs for, 22:24963 (IBK-241)
physics measurements in, use of progressive substitutions in perturbation method of, (T), 22:6171
physics measurements on core of, description of two group diffusion theory for, (T), 22:35659 (AEEW-R-594)
physics of, computer codes for analysis of, 21:15643 (CONF-660221-, pp 279-82)
physics parameters as a function of localized burnup in, calculational method for, 21:25636 (UJV-1704)
physics parameters for DIORIT, use of power transients for determining, 21:30279
physics parameters of cluster lattices in, WIMS code analysis of, (E/T), 25:6181 (AEEW-R-549)
physics parameters of pressure tube type, single-element methods for, (T), 24:33528

physics parameters of, physical-thermokinetic program for calculation of, 21:34126
plutonium fuel for thermal, feasibility studies for use of, 22:39776 (JAERI-1154)
poisoning in, separation of boron and lithium, 22:1835(P)
power excursions in natural uranium fueled pressure tube type, model for self-limiting, (T), 25:10281
power output of, analysis of optimum reactor response for varying, 22:35536
power perturbations in, use of computer for optimization of control rod-induced, 22:42183 (CEA-R-3499)
power plant parameters of, trends of, 21:27704
power production economics for, 22:48649 (NEB-SS-21)
power production using, economics of, 22:1804
power production using, economics of, 22:14164
power transients in, calculation using SCR code, 21:13986 (RT/FIMA-(66)4)
pressure tube design for, 21:7997(P)
pressure tubes for organic cooled, optimum operating temperature for zirconium alloy, (E/T), 22:18483
pressure tubes for organic cooled, reliability analysis of SAP, 25:5984 (RISO-214, pp 335-43)
pressure tubes for organic cooled, statistical analysis of creep rupture behavior of SAP, (E/T), 24:26765
pressure tubes for, correlation of destructive and nondestructive testing of stainless steel—Zircaloy welded joints in, 23:47719
pressure tubes for, design criteria for Zircaloy-2, 23:16480 (BNWL-746, pp 3.1-5)
pressure tubes for, equipment for in-pile gaging of, 24:4162 (AECL-3426)
pressure tubes for, reliability and sensitivity analysis data for design of, 23:16483 (BNWL-746, pp 11.1-5)
pressure vessel for Czechoslovakia carbon dioxide-cooled, description of hydrostatic testing of cylindrical mild steel, 22:42230
pressure vessel for heavy water cooled, design of prestressed concrete, 25:56989
pressure vessel for integrated 600 MW(e), design characteristics of prestressed concrete, 23:28470
pressure vessel for, thermal insulation for concrete, 21:23648
pressure vessels for 500 MW gas cooled power, fast neutron radiation effects on prestressed concrete, 25:23270 (UJV-2390-RT)
pressure vessels for 500 MW gas cooled, fast neutron radiation effects on prestressed concrete, 25:37007(T) (ORNL-tr-2470)
pressure vessels for boiling power, temperature distribution in prestressed concrete, 25:60080
pressure vessels for boiling power, thermal stress limits for prestressed concrete, 25:60081
pressure vessels for European, data compilation on, 21:25622 (DANATOM-01-67)
pressure vessels for gas-cooled natural uranium fueled power, design parameters and fabrication techniques for carbon steel, 23:26002 (ZJE-36)
pressure vessels for, designs of prestressed concrete, 22:1790
pressure vessels of boiling power, analysis of thermal stresses in prestressed concrete, 24:26762
pressure vessels of boiling power, calculation of temperature distribution in one wall prestressed concrete, (T), 24:26758
pressure vessels of boiling power, effects of design parameters on temperature distribution in concrete, 24:26759
pumps for, description of hermetically sealed, 22:22784
radiation protection of personnel of, review of tritium β, 24:12090 (CEA-R-3874)
reactivity change in, effects of light water additions to coolant channels on positive, (E), 25:12830
reactivity control in, by bubbling helium through moderator, 22:39831(P)
reactivity control in, description of double burnable poison solution for, 22:25044(P)
reactivity control in, description of moderator level regulating system for, 24:4045(P)
reactivity fuel temperature coefficient in, effects of burnup on, (T), 23:23918
reactivity measurements for, accuracy of zero-reactivity method for, (E/T), 22:30338
reactivity of thermal, effects of coolant boiling on, (E/T), 24:7077
reactivity of thorium oxide (ThO_2)—uranium oxide (UO_2) lattices in, effects of thorium-232 capture cross section on, (E/T), 25:20377 (WAPD-TM-971)
reactivity of, effects of positive coolant coefficient of, 22:14174
reactivity of, effects of water leakage into cooling system on, 25:41561
reflectors for, evaluation of bismuth-impregnated graphite, (T), 25:44129 (EUR-4357)
review of power, 21:2822 (EUR-2966.f)
safety analysis of heavy water-cooled, description of probability methods for, 22:30267
safety studies on French, outline of, 22:14176
safety system for pressure tube, design of, 21:46922(P)
shield arrangement for, design of dual light water-hydrocarbon, 21:8112(P)
shielding of, SABINE code calculations of neutron flux in iron—water, 25:10192 (CEA-N-1354)
shutdown of organic cooled, techniques for control of transients in, 23:40336
shutdown of, control valve for, 21:10182(P)
shutdown safety system for boiling, description of pipe-connected moderator tank for steam condensation, 22:30276(P)
shutdown system for boiling heavy water-cooled, description of valve-regulated heavy water-heating pressure-suppressing, 23:6015(P)
shutdown system for pressure tube, reliability analysis of liquid rod, 25:6037 (RISO-214, pp 57-70)
shutdown system for, with moderator dumping actuator connected to primary cooling circuit, 24:47974(P)
simulation of boiling, using BRENDA code, 21:21646 (RISO-129)
site for 340 MW(e), effects on plant design parameters and safety standards of, 24:20588
stability of boiling water-cooled, analog simulation of hydraulic and nuclear, 22:20777 (BNWL-574)
stability of conceptual A2 gas-cooled natural uranium fueled power, analysis of xenon, (T), 23:26030 (UJV-2120-R)
startup of organic cooled, techniques for control of transients in, 23:40336
startup of, beryllium—plutonium neutron source rods for, 25:41372(P)
steam cycle studies for, 21:27742
steam generators in pressurized water, core configuration and piping system for, 25:60146(P)
target cans for, description of water-filled, 22:35616(P)
thermal characteristics of carbon dioxide-cooled, 22:3831 (JAERI-1145)
thermal insulation of fuel channels in, heat transfer across vertical annular gas layers of, 24:9590
thermodynamics of 500 MW(e) boiling, 25:15344
thermodynamics of carbon dioxide cooled power, effects of core configuration on optimum, 24:35998
thermohydraulic performance of ORGEL-type, PERFOR I computer program for, 23:15598 (EUR-4193)
tritium release from, measurement in air in presence of γ radiation of, 23:13531
tritium removal from, continuous extraction process for, 24:43743
turbines for Pakistan 138.6 MW(e), description of wet steam-driven, 23:9105
uranium requirements in Czechoslovakia from, 23:11166(T) (KFK-tr-274)
use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
ventilation of power, calculation of design requirements for, 24:20572
water poisoning in, 21:45220
water-d_2 content in, fast neutron slowing down method for determination of, 24:31246
xenon dynamic behavior in large, analysis of three-dimensional zonal control system for, 24:7099

Reactors, Helium-Cooled
see Reactors, Gas-Cooled

REACTORS, HETEROGENEOUS
book: Elementary Reactor Physics, 21:40646
configuration of variable opposing flow coolant channels for fuel arrangement in spherical pebble-bed, description of, 22:48700(P)
control elements for, description of multiple suspended rectangular plates in cross-shaped cross-section for, 22:48672(P)
control of liquid-moderated, design of system for, 21:5657(P)
control of, computer system for, 21:7994(P)
control rod drives for, description of telescoping tubular sleeves with, multiple concentric spring-type, 23:11189(P)
control rod efficiencies in, comparison of calculated and measured, 21:30274
control rod worth for, two group approximation analysis of, (T), 23:52465 (UJV-2225-R)
control rods for concentric multi-region, description of vertical axial operation of T-shaped cross section, 22:37582(P)
coolant flow and thermodynamics of boiling heavy water, calculation of, 21:19427
cooling system for gas- and water-cooled, description of dual-medium superheating, 22:37481(P)
cooling system for, description of closed loop heat exchanger in, 22:20894(P)
core configuration for power superheating, description of opposing-flow dual-region, 23:28422(P)
core for batch-type refueled, configuration of initial, 23:19498(P)
core for pressure vessel type superheating, 24:38486(P)
core melting accidents in oxide fueled water-cooled, analysis of, (E), 21:13988(R) (STL-372-47)
core melting accidents in oxide fueled water-cooled, analysis of, (T), 21:13987(R) (STL-372-44)
core structure for, description of, 25:57015(P)
criticality calculations for bare, summary of methods for, 25:23399 (UJV-2397.R,F.)
criticality calculations on cylindrical, P_1-multigroup approximation method for, 23:52460(T) (JPRS-48331, pp 177-98)
criticality condition for reflected lattices, two group three-dimensional theory for, 22:10083 (RISO-M-645)
criticality problems in, use of coupled transport and diffusion theories, 21:32022
description of boiling mercury-cooled, 22:16151 (INR-842/C)
description of concentric spherical, using small spherical fuel, 22:20883(P)
description of fast, 22:18533(P)
description of liquid fueled, 22:42245(P)
description of liquid sphere fueled graphite moderated shell, 22:20882(P)
description of pressure vessel type, with supercritical water moderator and coolant, 22:48668(P)
design of liquid metal-cooled, using core-confined floating canned liquid fuel pellets, 21:17547(P)
design of spherical core, 21:19422(P)
design of supercritical steam and pressure, operated by valves in supply and moderator tubes, 21:27777(P)
design of, with liquid moderator, 21:2862(P)
design with irregular fuel and geometrical moderator arrangements for, 21:40585(T) (AEC-tr-6894)
design with lattice fuel and coolant moderator, 21:40586(T) (AEC-tr-6895)
Doppler coefficient determinations for, 22:32790
dynamics analysis of, derivation of equations for, 22:27500
equivalence relation between homogeneous and, 21:30080 (AAEC/E-166)
excursion calculations for, eigenfunction expansion method for, 22:5999
fuel assemblies for heavy water-cooled and -moderated, description of multiple moderator-spaced, 22:42274(P)
fuel assemblies for, description of key-coupled longitudinal radially-directed straight fins for multiple parallel cluster-type, 22:42235(P)
fuel cycle for high-temperature, analysis of optimum economic, 23:9179 (NP-17696)
fuel cycles for high temperature gas cooled power, analysis of optimum economic, 23:37517
fuel element assemblies for, design of, 21:44895(P)
fuel element spacer fins design for, 22:1836(P)
fuel elements for, description of, 22:18619(P)
fuel loading machine for gas-cooled, description of pressure vessel enclosed rotating arm, 22:20872(P)
fuel rod characterization parameter determination in, (E/T), 22:32976(R) (MIT-2344-12)
fuels for, molten salt-technique for reprocessing, 22:40183 (KR-126, pp 468-75)
heat flux in, effects of fuel element distribution on flattening of, 24:18620
heat transfer in two-phase counter-current flow system for power, advantages of, 23:15611
heterogeneity effects in fast, computer program for calculation of, (E/T), 22:35470 (RT/FI-(68)11)
kinetics and stability of, with multipass and single-pass coolant flow, (T), 21:7921
kinetics calculations for uranium—water, analysis of two-group diffusion, (T), 22:42493
kinetics calculations for uranium—water, analysis of two-group diffusion, (T), 22:42494
kinetics equations for, calculational techniques for solution to, 22:50861
kinetics for, calculation of space and time dependent, (T), 25:54274
kinetics of bare uniform lattice, HEPAR computer program for, 25:26065 (UJV-2367.RP.)
kinetics of power, stochastic technique for analysis of, (T), 22:37459
kinetics of water, 21:7897(R) (STL-372-30)
kinetics of, collision probability method for anisotropic scattering, (T), 25:6156
kinetics of, development of space—time formalism for, 23:28629
kinetics of, two dimensional multigroup open cell method for calculation of, (T), 24:13629 (EIR-160)
lattice characteristics analysis in, unit cell simulation for, (T), 22:32976(R) (MIT-2344-12)
lattice characteristics of, neutron pulsed source technique for determination of graphite, (E/T), 23:33108 (CEA-R-3640)
lattice parameter analysis in, determination of fuel rod interaction kernels for, (E/T), 22:32976(R) (MIT-2344-12)
moderator structure for, description of key-aligned solid, 22:3873(P)
moderator structure for, description of solid fuel-containing, 22:3874(P)
neutron albedo boundary conditions between breeding and absorbing cylindrical zones of, Monte Carlo method for, 24:36087
neutron buckling in full lattices of, use of single rod measurements for analysis of axial, (E/T), 24:53000(R) (MIT-3944-1)
neutron cross section libraries for, CLETA code for, 24:41061 (RT/FI-(69)43)
neutron density distributions in, method for calculating, 22:20413(T) (JPRS-43682, pp 1-42)
neutron diffusion coefficients for, integral transport theory and P/sub N/ approximation methods for calculation of, (T), 25:54272
neutron diffusion coefficients for, use of first flight probability theory for determining, 23:11340
neutron diffusion equations for, iterative-variational techniques for solution to elliptical, 22:50863
neutron economy in, albedo method of calculating, 21:30275
neutron flux and resonance escape probability in, PEARLS code for calculation of energy dependent, 25:39332 (AAEC/E-213)
neutron flux calculations using diffusion theory, computer program for, 22:18077 (EIR-126)
neutron flux distribution analysis for, thermal three dimensional, 21:44890
neutron flux distribution in multiblanket cylindrical, use of unreflected end P_1 approximation for, (T), 22:35678
neutron flux distribution in thermal, computer program for, 25:3925 (DP-1238)
neutron flux distribution in unreflected, source-sink theory method for, 25:48339 (EIR-200)
neutron flux distribution in, approximation methods for calculation of, 25:18236
neutron flux distribution in, derivation of time-energy dependent, 22:42492
neutron flux distribution in, variational-iteration method for calculation of, 25:1963
neutron flux distribution near a weak perturbation in, (T), 21:35582 (NP-16822)
neutron flux flattening calculations for, (T), 22:7909 (JINR-P4-3580)
neutron flux for thermal, configuration of moderator for flat thermal, (T), 25:25969
neutron flux in graphite moderated, spatial and energy variations of thermal, (T), 24:43842 (DP-Report-357)
neutron flux in, calculation of space- and time-dependent, 23:15721
neutron flux in, description of fuel assembly enclosed absorbing material for shaping, 25:54065(P)
neutron flux in, numerical solution using a linear differential equation for scalar, 22:37622
neutron flux spectra and energy deposition in, NEVEMOR code for fast, 24:29080 (AECL-3423)
neutron population in, kinetics of, 21:30197
neutron reaction rates in, method for calculation of foil perturbation effects on, (E/T), 25:31659

neutron resonance absorption in, calculation of materials constants for, 22:44901 (UJV-2010)
neutron resonance absorption in, cross sections and approximation methods for resonance integrals for, 23:26110 (JEN-196-DF/I-60)
neutron resonance absorption in, first collision probability method for calculation of surface, (T), 24:4125 (CISE-R-125)
neutron resonance integral equivalence relation between homogeneous systems and, 23:31229
neutron resonance integral in, calculation of effective, 23:49664
neutron resonance integrals for, IRESINT 2 code for calculation of, 25:20823 (TKK-F-A-139)
neutron spectra calculation in square water-moderated and hexagonal zirconium hydride-moderated lattices in, MEGMOC code for region-dependent, 22:37618
neutron spectra calculation in, use of integral form of transport equation for, 22:39906
neutron spectra calculations in, methods for space and energy dependent thermal, 22:44943
neutron spectra for cells with different moderators in, analytical method using generalized heavy gas model for calculation of space and energy dependent, 23:9225 (BMwF-FBK-68-32)
neutron spectra for, computer program calculation of resonance energy, 25:57182 (JAERI-Memo-4481)
neutron spectra in, integral transport equation for measurement of thermal, (E/T), 22:35634
neutron spectra in, method for calculating thermal, 21:29865
neutron spectrum of multiple geometry, use of diffusion theory and heavy gas model for analytical calculation of, (T), 23:9235
neutron thermalization in one-dimensional, DEMETRA code for quasi-diffusion method calculations of, 25:44195 (IAE-2010)
neutron thermalization theory for cores of, 21:17536(R) (EURAEC-1742)
neutron transport in, semigraphical method for P/sub infinity/ solution of, (T), 25:34430
neutron trnsport in, (T), 24:36080 (RT/FI-(69)46)
neutron wave axial propagation in, analysis of plane-thermal, (T), 23:15722
neutron wave propagation in, analysis of thermal, 21:30113 (CONF-660206, pp 49-54)
neutron wave propagation in, multigroup diffusion theory analysis of, (T), 23:2120
noise spectrum analysis for systems of homogeneous and, comparison of, 22:1783
operation stability of, calculation of, 22:20828
physics calculations of water moderated uranium fueled, two group diffusion method for, (T), 24:20635
physics parameters for, perturbation theory calculation of, (T), 24:33494
physics parameters of, single and few rod methods for determination of, (E/T), 24:53001(R) (MIT-3944-4)
physics parameters of, single and few rod methods for determination of, (E/T), 24:53000(R) (MIT-3944-1)
physics parameters of, use of fuel rod γ spectroscopy for determination of, (E/T), 24:53000(R) (MIT-3944-1)
power and thermal neutron flux in, intrinsic method for determining, 21:40591
reaction parameters of, self-consistent criticality calculation method for, (T), 22:50865
reactivity effects of plutonium formation in fuel elements of, (T), 22:50848
reactivity effects on transients in, 21:31978
reactivity worths in, variational-iteration method for calculation of, 25:1963
Reactors, Heterogeneous Boiling
see Reactors, Boiling
Reactors, High-Temperature
see Reactors, Power
REACTORS, HOMOGENEOUS
see also Reactors, Fluid-Fueled
book: Elementary Reactor Physics, 21:40646
book: The Surface Chemistry of Carbon: Studies on the Use of Carbon as an Adsorbent in Nuclear Reactors of the Aqueous Suspension Type, 23:24253
components for, review of corrosion problems in molten-salt, liquid-metal, and aqueous-slurry, 25:55395
configuration of semi-, description of experimental facilities in, 22:53434(P)
control system for, root-loci stability analysis of, (T), 24:40939
core for liquid metal cooled small process heat solid, description of metal hydride moderated concentric circle arranged, 23:40369(P)
core-evolved gases in Berlin Research Reactor, catalyst for recombination of, 21:30269
critical dimensions of prolate ellipsoidal, (T), 21:25666
critical experiments in enriched uranyl fluoride solution, analysis of heterogeneous void-type, 21:38725
critical parameters of, compensated perturbations method for determination of, (T), 24:2063
critical uranium-235 fuel concentration, 21:35657
description of boiling aluminum chloride ($AlCl_3$)-cooled, 22:16151 (INR-842/C)
design of fluid-fuel, for reduction of start-up problems, 21:21740(P)
design of uranium-aqueous, theory and methods for, (T), 22:1864(T) (JPRS-42322, pp 14-101)
design of, with fuel and moderator in a glass melt, 21:14039(P)
design of, with liquid moderator, 21:2862(P)
Doppler effect evaluation for dilute fast oxide, effects of two level formula on, 22:53377
equivalence relation between heterogeneous and, 21:30080 (AAEC/E-166)
excursions of, simple calculations for prompt, 21:30204
fuel burnup in, multigroup calculation of, (T), 23:47326
fuel cycles for high temperature gas cooled power, analysis of optimum economic, 23:37517
fuel for thermal, description of fused oxyceramic, 24:16203(P)
fuels for fast, properties of uranium and plutonium trichlorides for, 21:40589
fuels for power, calculations of energy availability for, (T) , 25:1896
fuels for, burnup effects on cerium dioxide—uranium dioxide and uranium dioxide—zirconium dioxide, 21:32951(R) (BMI-1798)
kinetics of two-dimensional circulating fuel, temperature dependent, 22:32888
kinetics of, calculation of eigenvalues for Helmholtz equation analysis of, (T), 24:33515
kinetics of, development of space—time formalism for, 23:28629
kinetics of, use of Volterra functional series for space-independent, (T), 23:17279
neutron buckling determination in two-dimensional, one group method for critical, 22:35725
neutron decay constants of injected pulsed beam in, mathematical development for, 21:23642
neutron detectors in, analytical expressions for auto- and cross-correlation functions for, 23:11333 (RCN-98, pp 301-37)
neutron fission rates in, equations describing temperature dependence of, 22:42382
neutron flux distribution analysis for, geometry effects on one group, 21:44890
neutron flux distribution in slab, algorithm for optimal control of steady state, (T), 25:39336
neutron flux distribution in slab, SP/sub N/-P/sub L/ method for solution of, 25:39331
neutron flux in infinite, Sokolov method for solution of multigroup equations of, 24:36084
neutron flux of natural uranium fueled one dimensional, two group diffusion approximation for flattening of, (T) , 24:13633
neutron multigroup diffusion in steady state bare, calculation of real eigenvalues for, (T), 23:2109
neutron multiplication in bare analytical expression for stochastic process of, 23:11333 (RCN-98, pp 301-37)
neutron resonance absorption in graphite moderated, interference effects of thorium-232 and protactinium-233, 25:5958
neutron resonance absorption in, cross sections and approximation methods for resonance integrals for, 23:26110 (JEN-196-DF/I-60)
neutron resonance integral equivalence relation between heterogeneous systems and, 23:31229
neutron scattering in, effects on reactor operation, (T), 21:13994
neutron slowing down parameters for, development of discrete stochastic model for, 23:33103
neutron spectra in, thermal and epithermal, (T), 22:29853
noise analyses of circulating fuel, high and low frequency, 23:11298 (RCN-98, pp 359-79)
oscillators in DR-1, description and performance of, 21:17525 (RISO-134)
physics calculations for, using uranium and plutonium trichloride fuels, 21:40589
power production from, experimental program for, 22:10010(R) (NP-17126)
reactivity coefficients for, energy-dependent kinetic equation analysis for volume related integral, (T), 22:42385(T) (ANL-Trans-645)
reactivity of, equations for Doppler temperature coefficient of, 21:21657
stability of, solution to Liapunov equations for determining asymptotic, 22:30363
Reactors, Homogeneous Boiling
see Reactors, Boiling
REACTORS, HYDROGEN-MODERATED
design of, description of Solid Homogeneous Assembly experiments for, 21:38664 (KAPL-M-6701)
neutron spectrum in, effects of physical parameters on fission peak shape in, 21:38459 (KAPL-M-6714)
REACTORS, INDIA
see also RAPP Power Reactor
see also Tarapur Power Reactor
cesium-137 content in coolant from, uptake of, by mollusks, 21:22306
development and economics of power, 21:19408
development for agro-industrial complex, 25:26056
development of 200 to 300 MW(e), analysis of economic, 23:37404
development of agro-industrial process heat and power, analysis of optimum economic, 24:20617 (BARC-453)
development of Apsara, Cirus, and Zerlina, 21:41292(R) (NP-16972)
development of medium power heavy water moderated, 25:28580
development of power, 25:18076
development of power, analysis of optimum economic, 25:25859
development program for heavy water-moderated power, description of, 22:30242
economics for agro-industrial complex, 25:25845 (BARC/INF-2)
REACTORS, INTERMEDIATE
see also Submarine Intermediate Reactor
control of, method for Doppler coefficient, 21:8173(P)
control rod evaluation for, 21:30091(R) (ANL-7210)
core for steam cooled, design parameters of, 24:11196(P)
design of water-moderated thoria—uranium-233 breeding, 21:31901 (BNL-11463)
economics of light-water-moderated breeder, 21:38575
economics of water-moderated thoria—uranium-233 breeder, 21:31901 (BNL-11463)
moderator distribution in core of, Doppler coefficient control by, 21:8173(P)
neutron cross sections and resonance parameters for, tables of, 22:46695 (EURFNR-537)
neutron decay in, statistical technique for measurement of prompt, 21:25671
neutron spectra in small highly-enriched-fuel, variational and Bubnov-Galerkin synthesis of spatially dependent, 22:35722
operation of research, review of, 23:47267 (IAE-1693)
physics parameters of uranium-235 and plutonium-239 fuels in mixed system, (E/T), 24:16249
plutonium-238 production in, economics of, 21:38576
shielding calculations for, using Nordheim Integral Treatment, 25:40744
spectral indices for, 24:1723
thermodynamic efficiency of, improvements for, 21:25682(P)
uranium fuels for production of plutonium-238 in, 21:35595
REACTORS, JAPAN
see also Fukushima Power Reactor, Unit 1
see also Fukushima Power Reactor, Unit 2
see also Fukushima Power Reactor, Unit 3
see also Hamaoka Power Reactor, Unit 1
see also Japanese Advanced Thermal Reactor
see also Japanese Materials Testing Reactor
see also Japanese Power Demonstration Reactor
see also Japanese Power Demonstration Reactor (II)
see also Kashima Power Reactor, Unit 1
see also Kyushu Power Reactor, Unit 1
see also Mihama Power Reactor, Unit 1
see also Mihama Power Reactor, Unit 2
see also Mutsu Reactor
see also Prototype Advanced Thermal Reactor
see also Takahama Power Reactor, Unit 1
see also Tohoku Power Reactor, Unit 1
see also Tsuruga Power Reactor
boilers for fast breeder, development of liquid metal heated, 25:18133
components for fast breeder, design requirements of, 25:18113
components for prototype liquid sodium cooled fast breeder, development problems with, 25:18115
configuration of 36 MW(t) pressurized-water maritime, reference design, 22:46994
construction applications for, requirements on, 21:15665
construction of marine, economics and schedule for, 23:15705
construction of power, review of, 24:24707
containment structure for marine, model study for optimum configuration of, 24:2047
control of, use of digital computers for, 23:40344
control systems for fast breeder, 25:18120
control systems for marine, instrumentation requirements of, 24:2046
cooling system for marine, design parameters of primary, 24:2048
cooling system model for Tokyo University, description of, 21:21672
cooling system of Kinki University, corrosion inhibition methods for, 23:16469
cooling systems for liquid metal cooled fast breeder, development of piping, pumps, and valves for, 25:18132
cooling systems for marine, description of auxiliary and emergency, 24:2049
cooling water for, design of intake for, 24:9573
core fabrication for, description of domestic, 22:35486
description of, 22:22717
description of Japanese heavy water-moderated boiling water-cooled plutonium self-sustaining, 22:30238
design concepts for 1000 MW(e) liquid sodium cooled fast breeder, comparison of component characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
design criteria for liquid sodium cooled fast, safety considerations for, 23:47218 (ANL-7520(Pt.2), pp 67-76)
design of, earthquake resistant criteria for, 25:53974 (A/CONF.49/P-226)
design parameters for 100 MW(t) liquid sodium-cooled plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled fast, description of, 23:9123
design parameters for 300 MW(e) prototype liquid sodium cooled fast breeder, 24:11162
design parameters for advanced thermal 165 MW(e) prototype heavy water-moderated water-cooled boiling, 23:13420
design parameters for marine, description of, 23:9223
design parameters for maritime, 23:23993
design parameters for prototype 200 to 400 MW(e) liquid sodium cooled fast breeder, analysis of optimum, 23:47156 (ANL-7520(Pt.2), pp 110-20)
design parameters for water-moderated marine, analysis of, (E/T), 23:9222 (JAERI-1166)
design parameters in Japan for two conceptual 1000 MW(e) liquid sodium cooled fast breeder, comparison of, 23:47153 (ANL-7520(Pt.2), pp 77-85)
design parameters of prototype liquid metal cooled fast breeder, 25:3855
design problems for conceptual 1000 MW(e) liquid sodium cooled fast breeder, 23:47154 (ANL-7520(Pt.2), pp 86-9)
design requirements of power, analysis of earthquake resisting, 25:5939
development during April 1969 to March 1970, description of,, 24:1974
development of advanced thermal prototype 200 MW(e) heavy water moderated light water cooled boiling, 23:33033
development of conceptual 165 MW(e) Advanced Thermal Reactor, review of, 23:43091
development of desalination, review of program for, 23:49613
development of dual purpose desalination and power, 25:18217
development of dual purpose desalination and power, 25:18221
development of fast breeder liquid sodium-cooled power, technology for, 23:13421
development of fast breeder power, description of, 22:35485
development of gas cooled dual purpose power and process heat, 25:37092
development of high temperature gas cooled, effects of thorium fuel cycle on, 25:1856

- development of liquid sodium cooled fast breeder, 25:54043 (A/CONF.49/P-819)
- development of molten salt, economics for, 25:1855
- development of power, analysis of optimum economic, 25:3804
- development of power, analysis of present and future, 23:17180
- development of power, economics for, 23:9102
- development of power, economics of, 23:11150
- development of power, for use in Tokyo area, 23:13433
- development of power, planned program through 1976 for, 23:17173
- development of power, predicted, 25:28582
- development of power, programs for future, 23:13428
- development of power, status of, 25:5945
- development of prototype fast, 24:20607
- development of, review of, 24:1973
- development of, review of, 23:31151
- development program for liquid sodium-cooled fast, description of, 22:35538
- development program for power, description of, 22:46972
- development program for prototype liquid sodium-cooled fast breeder power, 23:17181
- development program for, description of, 23:15574
- development program in Japan of prototype boiling heavy water-moderated power, 23:17181
- development program of boiling water-cooled heavy water-moderated 200 MW(e) thermal power, description of, 22:30243
- development program of fast breeder power, description of, 22:37448 (NP-17521)
- development programs for fast breeder and advanced thermal, review of, 23:28421
- development status and prospects for power, 22:46934
- earthquake resistance studies for power, review of, 23:11262
- environs monitoring during April 1965 to April 1966, 21:36575(R) (JAERI-5015)
- fuel cycle economics of, 24:11135
- fuel cycle for power, analysis of long-term, 25:25896
- fuel cycle for power, effects of reprocessing program on, 24:31073
- fuel cycle for, establishment of domestic, 24:24731
- fuel cycle for, plutonium effects on economics of, 24:31075
- fuel cycles for boiling power, analysis of fuel sources and economics for, 22:32849
- fuel cycles for power, analysis of optimum, 21:17487
- fuel cycles for water cooled power and fast breeder, development of optimum long term, 24:52784
- fuel cycles of, evaluation of long range economics of, 24:11136
- fuel development for fast breeder, present state of mixed oxide, 23:11244
- fuel development for power, analysis of, 23:15749
- fuel element assemblies for experimental program fast breeder, fabrication and testing of, 24:18718(T) (JAPFNR-2)
- fuel element testing for, hot cell design for, 21:12613 (JAERI-1110)
- fuel elements for water cooled power, irradiation testing of uranium oxide (UO_2), 25:1892
- fuels for power, enrichment requirements for uranium, 24:24730
- heat exchangers for fast breeder, development of liquid metal—liquid metal intermediate, 25:18133
- heavy water leakage in JRR-2, procedures for handling, 21:25727
- inspection of power, procedures of IAEA safeguard, 25:1846
- kinetics of conceptual 1000 MW(e) liquid sodium cooled fast breeder, calculation of optimum, 23:47182 (ANL-7520(Pt.2), pp 99-109)
- materials for, development of, 25:58194
- materials for, development of structural, 24:14666
- materials for, evaluation and testing of structural, 24:8111
- materials for, evaluation and testing of structural, 24:8108
- materials for, evaluation and testing of structural, 24:8110
- materials for, evaluation and testing of structural, 24:8109
- materials testing programs for, 22:30805
- performance of marine, model analysis of wave motion, 23:15701
- performance of power, comparison of, 22:48656 (RT/EC-(68)1)
- physics characteristics for steam cooled fast breeder, advantages and disadvantages of, 24:1980
- piping for boiling, design and fabrication of field, 22:32851
- procurement to 1978 for power, 24:20644(T) (LIB/Trans-240)
- radioactive effluents from research and power, release limits for coastal areas of, 24:45923 (CONF-700810-42)
- reliability analysis of power, 25:5937 (RISO-214, pp 457-79)
- research on development of marine, description during April 1964 to March 1968, 23:15702
- safety criteria for maritime, analysis of, 23:2099
- shielding analysis for first marine, (E/T), 23:13566 (AERE-R-5773(Vol.5), pp 1346-72)
- shielding for maritime, effects of lead and concrete wall junction on γ, 23:21543
- shielding of HTR, radiation dose rate on surface of secondary, (E/T), 21:17529
- sites for multiple unit power, safety criteria for, 23:33017
- siting of, analysis of problems in, 22:18427
- siting of, factors affecting, 22:18426
- siting requirements for research and power, analysis for coastal areas of, 24:45923 (CONF-700810-42)
- structural components of, review of safety programs for, 25:54143 (A/CONF.49/P-225)
- uranium requirements for future, development of centrifuge process for supplying enriched, 25:39649 (CONF-700211-12)
- use of stainless steels in boiling-water and pressurized-water, description of, 22:32850
- uses in biology and medicine, advantages of Linac dynamic booster for, 25:13548
- waste disposal from JAPC, instrumentation and operation of facilities for, 22:16794
- wastes from, methods for disposing of liquid and solid radioactive, 23:16066 (KURRI-TR-9, pp 6-10)
- wastes from, research on disposal of radioactive, 23:16065 (KURRI-TR-9, pp 3-5)

Reactors, Liquid-Fueled

- see Reactors, Fluid-Fueled

REACTORS, LIQUID METAL-COOLED

- see also Argonne Fast Reactor Experiment Test
- see also BN-350 Reactor
- see also BN-600 Reactor
- see also BOR-60 Reactor
- see also Cadarache Reactors (Rapsodie)
- see also Dounreay Fast Reactor
- see also Experimental Breeder Reactor
- see also Experimental Breeder Reactor-II
- see also Fermi Fast Breeder Reactor
- see also Hallam Power Reactor
- see also Japanese Experimental Fast Reactor
- see also KNK Power Reactor
- see also Liquid Metal Fast Breeder Reactor
- see also Liquid Metal Fuel Reactor
- see also Los Alamos Molten Plutonium Reactor Experiment
- see also Phenix Fast Reactor
- see also Reactors, Sodium-Graphite
- see also Sodium Reactor Experiment
- see also Submarine Intermediate Reactor
- see also Weisweiler Power Reactor
- accident analyses for fast breeder, 25:41491
- accident analysis for fast, review of, 25:44132 (AI-AEC-12992)
- accident analysis for, generation of reproducible sodium aerosols for, 21:31922 (CONF-660904-Vol.1 and 2, pp 848-59)
- accident analysis for, summary of computer programs for, 25:54203 (HEDL-TME-71-30)
- accident analysis in, induced by coolant-flow-loss and reactivity increases, 21:12139 (GEAP-4787)
- accident analysis of, 21:25689
- accident conditions in fast sodium, aerosol and particulate release and transport under, 24:20579 (NP-18150)
- accidents in fast breeder sodium, properties of aerosols produced in, 23:29018
- accidents in fast breeder, analyses of dynamics of, 25:57069(R) (ANL-7800)
- accidents in fast breeder, analysis of aerosol release for, 25:31618
- accidents in fast breeder, analysis of sodium combustion, 25:31568(T) (EURFNR-823)
- accidents in fast breeder, mathematical analysis of aerosol distribution following, 25:57105
- accidents in fast breeder, plutonium oxide (PuO_2)—sodium—uranium oxide (UO_2) aerosol behavior simulation for, 22:53262 (BNL-12757)
- accidents in fast, effects of fuel element failures and coolant flow blockage on, 25:60117 (KFK-1380)
- accidents in fast, sodium superheat required for nucleation during, 21:38515
- accidents in large fast sodium, effects of core configuration on explosive yield during, 22:53390
- accidents in sodium cooled, limitation of hypothetical, 25:57072 (CONF-710302-(Vol.1), pp 1-24)
- accidents in sodium, acoustic and inertial constraints for molten fuel and liquid sodium interaction, 25:6099
- accidents in, analysis of acoustic wave propagation in two phase media during, 25:6079
- accidents in, fission product behavior in containment atmosphere following sodium oxidation, 23:47217 (ANL-7520(Pt.1), pp 555-61)
- accidents in, review of U.S. safety programs on, 25:60132
- adjoint function for fast, heterogeneity effects on, (T), 24:43720 (RT/FI-(70)19)
- aerators for coolants of, description of core arranged spray nozzle shaped, 23:40353(P)
- aerosol distribution in containment of, following accidental reactor vessel rupture, 25:60148 (AI-69-Memo-95)
- aerosol transport during sodium spills in, analysis of, 21:31909 (CONF-660904-Vol.1 and 2, pp 28-48)
- aerosols released in accidents in fast, characteristics of, 24:52949 (EURFNR-816)
- bearing development technology for, description of optimum design data and instrumentation for, 22:42199(R) (NYO-3930-1)
- bearings and seals for large, development of, 21:14356 (MTI-66TR66, pp 8.1.1-6)
- bibliography on foreign and domestic power, 23:19400 (BNWL-936(Vol.2))
- boilers for fast breeder power, design and construction of high power test loop for, 24:52954
- boilers for fast breeder, development of module type, 25:23326
- boilers for fast, design and development of, 24:52899
- boilers for fast, development in France of, 24:52898
- boilers for fast, development in France of sodium heated, 24:52909
- boilers for fast, development in Netherlands of, 24:52896
- boilers for fast, development of leak detectors for, (E/T), 25:1878(T) (ANL-Trans-857)
- boilers for fast, heat transfer and pressure drop characteristics of once through evaporators of, 24:52905
- boilers for fast, testing program for liquid sodium, 24:52903
- boilers for liquid sodium-cooled, construction characteristics of, 22:53294
- boilers for power, design characteristics of, 25:3898
- boilers for power, development of, 24:29010
- boilers for power, maintenance requirements and economics for, 24:52900
- boilers for prototype fast breeder, development in Japan of, 24:52897
- boilers for, analysis of sodium—water reactions in, (E), 24:47853(R) (APDA-262)
- boilers for, description of, 25:28746(P)
- boilers for, effects of sodium and nitrogen on physical properties of ferritic and austenitic steel tubes of, 24:52895
- boilers for, leak detection systems for, 24:52931
- boilers for, safety analysis of liquid sodium heated, (E/T) , 25:39280 (CEA-N-1392)
- boiling in core of, acoustic methods for detection of incipient, 24:16772 (TID-25328)
- boiling in, effect of liquid superheat on, 21:1501 (ANL-7184)
- boiling studies for, 21:46906
- book: Marine and Stationary Liquid Metal Nuclear Power Installations, 23:52319
- book: Physico-chemical Analysis of Handling Liquid Metal Coolants (In Russian), 25:11342
- book: Simulation Methods for Thermal Hydrodynamics of Liquid Metal Cooled Nuclear Reactors, in Russian, 25:46326
- breeding blankets for, optimization of radial urania, 21:30209
- burnout in, study of factors affecting occurrence during accidents, 21:15770(T) (ORNL-tr-1563)
- carbon content in sodium, instrument for determining, 21:10131(R) (UNC-5160)
- cavitation damage in, 21:36792
- cladding materials for, radiation effects on mechanical properties of, 21:32951(R) (BMI-1798)
- cleaning system for used fuel elements of, effectiveness of liquid lead, 24:52933
- component construction for sodium-cooled, 22:32804
- component design and construction for sodium cooled, 23:45051 (CONF-681064-2)
- component development for, design of SCTI for, 23:9609(R) (LMEC-68-1)
- component development for, design of SCTI for, 23:9610(R) (LMEC-68-13)
- component development for, operation of SCTI for, 22:48982(R) (LMEC-68-20)
- component development for, operations history of Sodium Component Test Installation for, 22:16204
- component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
- components development for sodium, committee reports on, 21:19379 (ORNL-3955(Vol.2))
- components development for sodium, coordination reports of, 21:19380 (ORNL-3955(Vol.3))
- components development for sodium, history of, 21:19378 (ORNL-3955(Vol.1))
- components for advanced, design of, 21:8045(R) (LA-3625)
- components for conceptual 500 MW(e) fast breeder, 23:19465 (NP-17784)
- components for fast sodium, CNEN development program for, 24:16226
- components for fast, fabrication of chromium—vanadium alloys for, 23:36037(P)
- components for Japanese fast breeder-type, design and operation of sodium loop for testing of, 25:4191
- components for prototype fast breeder, development problems in Japan with, 25:18115
- components for, material selection for minimum wear in sodium, 25:22011 (KFK-1251)
- components for, review of corrosion problems in, 25:55392
- configuration of fast liquid sodium-cooled, analysis of electrical and mechanical design problems in, 22:48712
- configuration of integral, description of, 22:53331(P)
- configuration of liquid lead-cooled floating molten-salt and graphite core, 22:39841(P)
- construction and design problems of fast sodium, 22:16196
- construction of fast liquid sodium-cooled, analysis of engineering and design problems in, 22:48711
- construction of fast, description of methods during, 22:30205
- construction of sodium cooled, requirements and problems in, 25:60007 (CONF-710922-1)
- containment for Karlsruhe prototype fast breeder sodium, safety analysis of, 22:18450
- containment for sodium cooled, design criteria for, (T), 25:28739 (RT/ING-(70)25)
- containment structure for fast, description of liquid sodium thermal insulation for, 25:10199(P)
- containment structure for fast, design of roof for, 24:36014(P)
- containment structure penetrations for fast sodium, problems of design of, 22:16197
- containment structures for fast sodium, problems of analysis of complex, 22:16197
- containment system for fast, effects of high energy excursion on two-dimensional hydrodynamic response of primary, (T), 24:29033 (ANL-7498)
- containment system leak rate for design basis accident in fast breeder, agglomeration modeling for effects of aerosol particle size on, 23:23938 (CONF-680821-, pp 330-4)
- containment systems for, review of charcoal filter air cleaning systems in, 23:23926 (CONF-680821-, pp 13-26)
- containment systems of, design requirements for contamination control of sodium fires in, 25:6049
- containment vessel for, analysis of leakage after excursion from, 21:30137 (EURFNR-289)
- control by coolant neutron cross section, 21:25697(P)

control by digital computers, development by LMFBR Computer Control Center, 21:34080 (BNWL-SA-1129)
control characteristics for Na 2, effects of correct dead time simulation on automatic, 25:10186 (KFK-1179)
control elements for fast breeder, description of gas venting capillary valve for rod type, 25:10189
control elements for fast, description of multiple vertical core surrounding shutter-actuated graphite bar, 23:23884(P)
control elements for fast, description of overhead, 22:10052(P)
control elements for sodium cooled, survey on elastomeric seals for, 24:36061 (BNWL-1387)
control elements for, description of helium vented rod type, 25:28673(P)
control elements for, gripping device for handling, 25:60259(P)
control elements in, description of U-shaped closed-end tube with pressurized liquid metal for regulating, 23:4198(P)
control of fast power, use of hybrid computer analysis of cooling system dynamics for, 23:49548(T) (ANL-Trans-771)
control of sodium cooled, instrumentation development for, 25:28667 (HEDL-SA-170)
control rod drive coupling system for, 25:28670(P)
control rod drive system for, description of hydraulic, 25:28676(P)
control rod drives for conceptual fast breeder power, testing of, 24:1981
control rod drives for fast breeder, environment testing of magnetic jack, 23:37487
control rod drives for sodium cooled, standards for collapsible-rotor roller-nut, 25:44105 (RDT-E-6-5-T)
control rod drives for, description of coupling system for, 25:28671(P)
control rod external access control mechanism for, design of, 22:3876(P)
control rods drive mechanism for, design of, 21:44907(P)
control rods for fast, development of capillary valve for ventilation of, 25:39244
control schemes for, analysis of coolant temperature, (E/T), 25:10185 (CEA-R-3988)
control systems design for large fast, 21:17505
control systems for fast sodium, use of variable lithium concentration for spectral shift, 22:16246(P)
coolant accident in fast liquid sodium-cooled, analytical methods for analysis of sodium fires during, (E/T), 23:13521 (AI-AEC-12721, pp 111-29)
coolant activation in fast, effect on shielding of liquid lithium, potassium, and sodium, (T), 22:39782 (N-68-20355)
coolant boiling and condensation in, effects of fuel—sodium interactions on voiding transients caused by, 25:41478
coolant boiling and expulsion from, analysis of molten fuel and liquid sodium reactions for model of, (E/T), 25:23309 (EUR-4592)
coolant boiling and expulsion in fast breeder, effects of coolant loss and flow blockage accidents on, 25:41476
coolant boiling and two-phase flow in sodium, (E/T), 22:30155(R) (NAA-SR-12296)
coolant boiling during severe overpower transient in unfailed fuel pins of sodium, effects of, 25:41540
coolant boiling from severe transients in, TRANSFUGUE-IIa code for analysis of, 22:22705 (NAA-SR-12503)
coolant boiling in fast breeder sodium, detection methods for, (T), 25:3864
coolant boiling in fast breeder, analysis of voiding effects in transient, 21:17495
coolant boiling in fast breeder, compressible model analysis of power excursion and coolant loss effects on transient, 25:41475
coolant boiling in fast, acoustic standing wave method for detection of, 25:41443
coolant boiling in fast, analysis of liquid sodium, (T), 24:33292
coolant boiling in fast, analysis of liquid sodium, (E), 24:22432 (RT/ING-(69)29)
coolant boiling in fast, analysis of superheating and bubble nucleation from transient, (T), 23:15667
coolant boiling in fast, characteristics of liquid sodium, (E/T), 24:29004(T) (EURFNR-701)
coolant boiling in fast, effects of fuel element failures and coolant flow blockage on, 25:60117 (KFK-1380)
coolant boiling in fast, effects of noncoherence on liquid sodium, (T), 24:7111
coolant boiling in fast, hydrodynamics and thermodynamics of liquid sodium, (E/T), 25:15382
coolant boiling in fast, neutronic-acoustic detection system for, 25:54078
coolant boiling in liquid sodium cooled, design of stainless steel acoustic waveguide for detection of, (E/T), 25:18130
coolant boiling in liquid sodium cooled, safety aspects of, 23:47215 (ANL-7520(Pt.1), pp 12-16)
coolant boiling in liquid sodium cooled, stable and transient flow characteristics for, 25:60112 (CEA-CONF-1797)
coolant boiling in potassium, ultrasonic instrumentation for detection of incipient, 21:12713(R) (NYO-3622-6)
coolant boiling in sodium cooled, acoustic detection of, (E), 25:37052
coolant boiling in sodium cooled, MULTI-TRABLL code for transient, 25:51065 (JAERI-13611)
coolant boiling in sodium cooled, MULTI-TRABLL code numerical solutions of transient, 25:51066 (JAERI-13682)
coolant boiling in sodium cooled, NEMI code for thermohydraulic analysis of, (E/T), 25:37046 (RT/ING-(70)18)
coolant boiling in sodium cooled, system for detection of, 25:18146(P)
coolant boiling in sodium cooled, time for thermal process propagation of, (T), 25:23320
coolant boiling in sodium cooled, TRABLL code for transient, 25:51064 (JAERI-13602)
coolant boiling in sodium, analysis of transient, (T), 21:13945 (ANL-7222)
coolant boiling in, detection of nucleate, 21:21821(P)
coolant boiling in, effects of flow velocity on, 25:41474
coolant boiling in, hydraulic and thermal problems from, 23:19493
coolant boiling in, multiple bubble slug ejection model for, 25:41477
coolant boiling in, survey of acoustic methods for detection of, 25:1906 (ANL-7469)
coolant carbon potential, design and performance of UNC carbon meter for measuring sodium, 23:45572 (ANL-7520(Pt.1), pp 254-61)
coolant cavitation in, review of, 22:17114 (NP-17279)
coolant channel plugging accidents in, propagation of sodium boiling and fuel element failures from, (T), 25:54167
coolant channels for, variable wall heat flux effects on turbulent liquid-metal heat transfer coefficients for, 21:38492
coolant channels in, heat transfer calculations for, 22:30118 (ANL-7438)
coolant channels of, transient vaporization of sodium in, 21:30091(R) (ANL-7210)
coolant chemistry in, procedures for analysis of sodium, 21:40564(R) (NAA-SR-12395)
coolant circulation in, evaluation of, 21:31968
coolant combustion in fast breeder, analysis of sodium oxide (Na_2O) aerosol release for, 23:37589
coolant combustion in fast, analysis of liquid sodium, (E/T), 25:57112 (HEDL-TME-71-31)
coolant combustion in sodium cooled, aerosol release and transport from, (E/T), 25:31615
coolant combustion in sodium cooled, energy release from, 25:8101 (BNWL-SA-3093(Vol.2), pp XIX.1-43)
coolant combustion in sodium cooled, release of fission products from, (E/T), 25:51030(R) (NAA-SR-12492)
coolant combustion in, effects on containment structure streses of liquid sodium, 24:43787(T) (EURFNR-754)
coolant cover gas for, analyzer development for, 22:43629(R) (LA-3933)
coolant cover gas for, purification by sorption of radioactive gases from, 22:21760 (TRG-Report-1578)
coolant cover gas impurities in sodium-cooled, bibliography on, 22:50702 (BNWL-849)
coolant cover gases for, method for fission product determination in, 25:4736(R) (ANL/ST-3)
coolant cover-gas purification in, performance of solid-state silica-glass diffusers for helium, 23:2040 (LA-3794)
coolant development and testing for, review on, 23:48314 (BNL-50190)
coolant dynamics for fast, 21:42725(R) (ANL-7357)
coolant ejection from pulsed fast, effects of acoustic waves on, 22:12093 (EUR-3654)
coolant ejection in sodium, simulation of, 23:47695 (KFK-925)
coolant ejection mechanisms for fast breeder power, computer program models for analysis of, (T), 23:19515
coolant expulsion dynamics for fast breeder sodium, nonmetallic fluid simulation of, (E), 24:38583
coolant expulsion from coolant channels during transient in sodium, single-bubble model of, 25:51152
coolant expulsion from sodium cooled fast, dynamic mechanisms for, 25:8092 (BNWL-SA-3093(Vol.1), pp IX.1-38)
coolant expulsion from, effects of sodium, 21:23589(R) (ANL-7308)
coolant expulsion in fast breeder, liquid film thickness for single bubble slug, 25:41479
coolant fires in sodium, mathematical model for determining behavior of aerosols during, 22:5953
coolant fires in, energy and fission product release in sodium, (E/T), 22:30155(R) (NAA-SR-12296)
coolant fission product distribution in, after 1000 to 3000 hr operation, 21:43644 (LA-3737)
coolant flow blockage effects on sodium, boiling in fuel element subassemblies, 25:41481
coolant flow corrosion product distribution in, 21:25640(T) (ANL-Trans-425)
coolant flow for, ETNA-code for analysis of two-phase transient sodium, 22:42205 (RT/ING-(68)10)
coolant flow in fast, design and testing of fuel element thermostat for control of, 24:52862
coolant flow in fuel bundles of sodium cooled, description of flow measuring device for, 25:18123(P)
coolant flow in sodium, design and performance of 1200°F magnetic flowmeter for measuring, 21:32518
coolant flow in triangular and polygonal channel, Nusselt number and temperature distribution for turbulent, (T), 23:7421
coolant flow in triangular fuel rod clusters of fast, temperature and velocity distribution in turbulent liquid sodium, (T), 25:15363
coolant flow in, design of electromagnetic flowmeter for measurement of, 25:8400(P)
coolant flow in, design of ultrasonic flowmeter for measuring, 21:36428(R) (NYO-3622-9)
coolant flow in, development of ultrasonic instrumentation for measuring of, 21:26275(R) (NYO-3622-8)
coolant flow in, noise induced by fluctuations in at-power, (T), 24:38625
coolant flow measurements in, calibration and stability of permanent magnet in-core flowmeter for, 22:28215
coolant flow measurements in, performance of eddy-current flowmeter for, (T), 22:28216
coolant flow meters for liquid sodium fast, development of electromagnetic, 25:23279
coolant flow transients in fast, effects of gas release from fuel subassembly failure on, (E/T), 25:25971 (ANL-7651)
coolant for fast breeder, advantages and disadvantages of liquid sodium, 23:15632
coolant for fast breeder, safety problems with liquid sodium, 25:37011
coolant for fast, boiling mechanisms in forced convection of, 23:15636
coolant for fast, heat transfer characteristics of, 24:18669
coolant for fast, purification techniques and equipment for liquid sodium, 25:18128
coolant for fast, solubility of inert gases in liquid sodium, (E/T), 25:15379(T) (EURFNR-785)
coolant for lithium cooled space power, heating power and time for prestart melting of, (T), 25:46312 (N-71-17369)
coolant for, boiling and outgassing conditions in liquid sodium, 23:52337(T) (JPRS-48330, pp 396-425)
coolant for, chemical and physical properties of liquid lithium, 24:20555 (UCRL-50647)
coolant for, cold trap for sodium oxide removal from, 24:11183(P)
coolant for, determination of hydrogen content in sodium, 24:36026
coolant for, development of carbon meter for in-line impurity monitoring of sodium, 23:33048 (UNC-5226)
coolant for, development of instruments for measuring impurities in, 22:25691 (LMEC-Memo-68-3)
coolant for, downstream corrosive effects on stainless steel of liquid sodium, 24:38514(T) (ANL-Trans-839)
coolant for, method for determining hydrogen and oxygen content in, sodium, 25:18863
coolant for, methods for control of fires from leaking sodium, 25:51789
coolant for, oxygen gettering from liquid sodium, use of thorium and zirconium alloys for, 22:1749 (AD-648248)
coolant for, radioisotope deposition and transport from stainless steel corrosion by flowing high temperature sodium, 23:23890 (BNWL-SA-2336(Draft))
coolant for, simplified analytical model for describing expulsion and reentry of sodium, 23:37581
coolant heat transfer in, measurement of axial-flow sodium, 22:45236(T) (BNL-tr-220)
coolant heat transfer in, measurement of axial-flow sodium, 21:45297 (UJV-1815)
coolant heat-transfer studies for, 21:40529 (ANL-7290, pp 170-7)
coolant hydrogen activity, design and performance of electrochemical cells for determining sodium, 23:45573 (ANL-7520(Pt.1), pp 262-7)
coolant impurities in, design of plugging meter for monitoring, 22:21388 (TRG-Report-1640)
coolant impurities of, electrical resistivity method for monitoring, 21:24139(T) (ORNL-tr-1609)
coolant incipient boiling in sodium, design of ultrasonic instrument for detection of, 21:36428(R) (NYO-3622-9)
coolant incipient boiling in, development of ultrasonic instrumentation for detection of, 21:26275(R) (NYO-3622-8)
coolant level in fast, description of NaK-filled kerosene-insulated cylindrical ultrasonic gage for measurement of, 22:42292(P)
coolant level indicators for sodium, design and operation of induction, resistance, and ultrasonic, 21:28332
coolant loss accidents in fast, analysis of Bethe-Tait type excursions from, 25:15381
coolant loss accidents in sodium cooled fast, methods for simulation of, 25:8096 (BNWL-SA-3093(Vol.2), pp XII.1-126)
coolant loss accidents in sodium cooled, spray fire aerosol characteristics from, (E), 23:52375(R) (AI-AEC-12816)
coolant loss accidents in, characteristics of aerosols from sodium, 23:37562 (NYO-841-18)
coolant loss accidents in, shock waves and transient loading from sodium—air reactions following, 23:28507 (EUR-4101, pp 75-88)
coolant loss in 1000 MW(e) LMFBR, effects of sodium fires on, 22:9990(R) (BAW-1312)
coolant loss in sodium fires in, 21:26133(R) (NYO-841-4)
coolant losses in, sodium flashing measurements for calculation of effects of, 22:5969
coolant mixing in fuel element bundles of liquid sodium-cooled fast, analytic methods for determining, (E/T), 22:35476 (WASH-1096)
coolant monitoring instruments for detecting and controlling impurities in sodium, evaluation of, 23:45571 (ANL-7520(Pt.1), pp 233-53)
coolant of fast breeder, measurement of incipient boiling characteristics of liquid sodium, (E), 24:18687 (KFK-964, pp Sect. 8.1-12)
coolant of sodium, use of water ejection for simulation of, 24:13575(T) (EURFNR-656)
coolant of, liquid sodium solubility of argon in, (E), 24:18632 (KFK-964, Sect. 7.1-10)
coolant of, measurement of boiling shock characteristics of liquid sodium, (E), 24:18633 (KFK-964, Sect. 9.1-16)
coolant plugging indicators for, practical test of, 21:25742(T) (ORNL-tr-1605)
coolant pump assemblies for, description of multiple vertically-mounted centrifugal mixed-flow- or axial-flow-type, 23:11194(P)
coolant pump for, design of centrifugal free-surface, 23:43450
coolant pumps for fast breeder, systems considerations in design of sodium, 23:28450
coolant pumps for, description of glandless flywheels for, 25:46161(P)
coolant purification for, by impurity crystallization out of solution, 23:45383
coolant purity in, control of sodium, 21:23672
coolant purity in, requirements for sodium, 21:34114 (NAA-SR-Memo-12394)

coolant quality and properties for, determination of sodium, (E), 22:47040(R) (APDA-228)
coolant safety for fast, analysis of liquid sodium combustion and aerosol release, 22:32783 (ORNL-TM-1937)
coolant sampling equipment for, development of in-line vacuum-distillation liquid sodium, 25:44115
coolant sampling for analysis in, design of system for, 21:45006 (BNWL-491)
coolant sampling in sodium-cooled, integral full-flow vacuum distillation system for, 23:9138 (LA-DC-9666)
coolant sampling procedures for impurity analysis in sodium, 23:1991(R) (AI-AEC-12680)
coolant sampling system for, performance of vacuum distillation liquid sodium, 24:46041
coolant slug impact in fast breeder, analysis of accident condition, 25:41484
coolant slug impact in fast, analysis of accident condition, 25:41483
coolant sodium for, development of in-line carbon meter for monitoring, 22:14146(R) (UNC-5187)
coolant superheat values for sodium, (E/T), 22:35534
coolant technology for liquid sodium-cooled, description of, 23:11192 (CONF-680419-, pp 244-72)
coolant technology for sodium cooled, specialists meeting on, 24:43698 (IAEA/NPR-9)
coolant technology for sodium cooled, specialists meeting on, 24:43702 (UNC-SPLM-1059)
coolant temperature and velocity in, electromagnetic measurement method for, 23:4457(T) (ANL-Trans-690)
coolant void effects in, flux synthesis method for calculation of sodium, 21:38682
coolant void reactivity effect in sodium-cooled power, methods for reduction of, (T), 22:35559
coolant voiding by fission gas release in, hydraulic counterflow brake for prevention of, 23:4483(P)
coolant-loss accidents in sodium, filtration of airborne vapors in, 21:31924 (CONF-660904-Vol.1 and 2, pp 877-904)
coolant-loss accidents in, characterization of sodium fires and fission product release during, 21:40564(R) (NAA-SR-12395)
coolants for fast, thermo-physical properties of, 22:27449
coolants for, analysis of liquid sodium superheat values for, 22:35534
coolants for, corrosion of materials exposed to sodium, 21:34120
coolants for, corrosive properties and impurity monitoring in liquid sodium, 25:41364(T) (EURFNR-849)
coolants for, detection and removal of hydrogen from sodium, 25:51075
coolants for, development of on-line electrochemical meter for measuring oxygen impurities in sodium, 22:19194 (TID-24284)
coolants for, development of on-line plugging meter for detecting impurities in sodium, 22:19194 (TID-24284)
coolants for, measurement of pressure pulse propagation speeds for flowing two phase, 23:28453
coolants for, measurement of velocity and temperature of, 23:4766
coolants for, methods for predicting two-phase flow in, 22:14138 (NAA-SR-Memo-12485)
coolants for, monitoring, purification, and sampling of, 21:26030(T) (ORNL-tr-1608)
coolants for, nucleate boiling in liquid sodium, 23:38162 (NP-17902)
coolants for, pressure-wave method for detection of boiling in, 23:45468(P)
coolants for, review of noise detection systems for nucleate boiling in sodium, 23:31170 (AI-67-Memo-92)
coolants for, review on development of, 24:23422 (BNL-50223)
coolants for, review on development of liquid metal, 24:36856 (BNL-50236)
coolants for, thermodynamic properties of alkali metal vapors for use as, 24:1027
coolants in, detection of pool and forced convection boiling in, 22:14138 (NAA-SR-Memo-12485)
coolants of fast, analysis of gas bubble formation and distribution in liquid sodium, (T), 25:51070 (RD/B/N-1854)
coolants of fast, interface corrosion and heat transfer characteristics of liquid sodium, (T), 25:51069 (RD/B/N-1721)
cooling channels for fast, hot spot analysis for optimum design of, (T), 25:18122 (EURFNR-863)
cooling channels for, effects of core configuration on flow rate and heat transfer in, (T), 24:38524 (KFK-1042)
cooling circuits for, incorporation into reactor vessel of primary sodium, 22:12020 (DRP/ML/CANd-1011)
cooling system components development for, mass transfer tests in sodium loops for, 22:44822(R) (GEAP-5582)
cooling system components for, design parameters of gas insulation sleeves for, 24:47860(P)
cooling system corrosion mockup for fast liquid sodium-cooled, description of, 22:44819 (GEAP-4881)
cooling system for ceramic-fueled fast breeder, analysis of overpower transients in boiling in, (T), 22:20832
cooling system for direct conversion type, description of heat pipe, 22:14216(P)
cooling system for fast breeder, analysis of two-dimensional velocity distribution for turbulent single-phase flow in, 22:24961 (GEAP-5411)
cooling system for fast power, development and test programs for components of, 24:47855
cooling system for fast, description of closed cycle core and heat exchanger, 23:9139(P)
cooling system for fast, description of integral steam—water heat transfer system for, 22:25049(P)
cooling system for fast, development of pumps for, 24:43744
cooling system for fast, performance of molten salts for intermediate, 24:52906
cooling system for fast, sodium vapor control in, 24:43742 (NP-18331)
cooling system for liquid sodium cooled fast, development of components for, 24:43689 (CONF-700307-5)
cooling system for liquid sodium-cooled fast power, description of intermediate closed loop carbon dioxide, 23:31163(P)
cooling system for lithium cooled space, steady-state and transient operation of Brayton cycle, (T), 25:46314 (N-71-18866)
cooling system for power, description of cold trap with filter for, 24:36021(P)
cooling system for power, description of valve-regulated by-pass flow in multi-region dual-turbine, 23:4213(P)
cooling system for power, design characteristics of pumps for, 24:43746
cooling system for sodium cooled, effects of gas entrainment on thermal and hydraulic performance of, (T), 24:33288
cooling system for sodium, cleaning components of, 22:33143
cooling system for sodium, combustion rates for fires in, 22:1819
cooling system for sodium, evaluation of steel intermediate heat exchanger for, 25:57614 (KFK-1387)
cooling system for sodium-cooled fast breeder, fission product behavior in, (E/T), 22:39734 (AI-AEC-12687)
cooling system for space, analysis of heat pipe requirements in, (T), 23:4392
cooling system for, control and monitoring of sodium, 23:52336(T) (JPRS-48330, pp 293-312)
cooling system for, description of forced-circulation external dual-flow heat exchanger closed-circuit, 22:50772(P)
cooling system for, description of liquid metal superheat, reheat, and evaporator, 22:37478(P)
cooling system for, description of liquid metal-heated shutdown-drain valve in, 22:18654(P)
cooling system for, description of steam circulating pipes in double-wall core-containing liquid sodium, 23:9145(P)
cooling system for, design and development of liquid metal bearings for, 24:14129(R) (NYO-3930-6)
cooling system for, design and fabrication of thermal insulation for, 25:32112(P)
cooling system for, design characteristics of integrated, 25:39247(P)
cooling system for, design of variable pressure two-phase, 24:38532(P)
cooling system for, design parameters of triple tank contained, 24:20557(P)
cooling system for, interpretation of ASME code for low-alloy steels for use in sodium, 24:12356 (GEAP-13545)
cooling system for, recirculation loop for prevention of burnout in, 25:44114(P)
cooling system for, stainless steel corrosion-product radioisotope deposition and transport by liquid sodium in, 23:21475 (BNWL-969)
cooling system heat transfer in liquid sodium, effects of flow turbulence on, 23:13491
cooling system mass transfer in, two-phase interfacial effects on, 25:37923 (RD/B/N-1721)
cooling system of conceptual 1000 MW(e) fast breeder, effects of pump perturbations on, (T), 24:38529
cooling system of fast breeder, statistical method for analysis of hot channel factors for, (T), 24:18616 (KFK-964, Sect. 6.1-13)
cooling system of liquid sodium cooled fast power, design of, 23:52344
cooling system of sodium cooled, distribution of fission products in, (E/T), 25:51030(R) (NAA-SR-12492)
cooling system of, behavior of fission products released in sodium, (E), 22:30155(R) (NAA-SR-12296)
cooling system of, description of core dual conduit circuits for, 25:54077(P)
cooling system of, description of open reservoir blanket gas exposed primary, 24:26756(P)
cooling system of, measurement of superheat in boiling, 22:20833
cooling system of, of oxygen content on corrosive effects of liquid sodium in, 22:53315
cooling system of, review of operation and maintenance of components for, 24:5524
cooling system piping for, effects of inert cell impurities on, 25:5988
cooling system plugging meters for, description of various configurations of, 22:53334
cooling system research for, 22:647(R) (BNL-50077)
cooling system valves for, performance comparison of operation of, 22:53333
cooling systems for conceptual 1600 MW(e), design parameters of integrated closed loop and pool, 24:24820 (EURFNR-751)
cooling systems for fast breeder, development in Japan of piping, pumps, and valves for, 25:18132
cooling systems for fast power, design requirements for, 24:47854
cooling systems for fast, design aspects of, 24:18644
cooling systems for sodium cooled fast, development of components for, 25:8069 (EURFNR-828)
cooling systems for sodium cooled, design of single pumps for primary and secondary, 24:16186(P)
cooling systems for sodium cooled, design variations in primary, 25:37005 (KFK-1379)
cooling systems for sodium cooled, properties of austenitic steels for use in, 25:34335(T) (JPRS-53069, pp 197-203)
cooling systems for sodium-cooled fast breeder, design and operation of pumps for, 25:29257
cooling systems for sodium-cooled, design and operation of system for automatically monitoring impurities in, 25:29261
cooling systems for, analysis of sodium boiling processes in, (E/T), 24:9092 (KFK-1020)
cooling systems for, design characteristics and variations for, 25:60060(T) (EURFNR-904)
cooling systems for, design criteria and standards development for, 24:11214(R) (ORNL-TM-2777)
cooling systems for, fission product vaporization from sodium, (E/T), 23:11190 (BNL-13099)
cooling systems for, minimization of thermal distortion of pump assemblies in, 25:25981(P)
cooling systems for, reactor environment effects on materials for, 22:37479
cooling systems for, under-sodium scanning devices for, 21:38436 (APDA-205)
cooling systems of fast, maintenance equipment and procedures for liquid sodium, 22:46960
cooling systems of, behavior of long-lived fission products in sodium, 21:38514
cooling systems of, oscillograph techniques for analysis of liquid sodium boiling characteristics in pipes for, 24:24827
cooling systems of, transient and steady-state natural convection heat transfer in, (E), 24:33306
core behavior in fast, MELT-1 heat transfer—neutronics computer program for major excursion effects on, 23:13524 (BNWL-944)
core chamber for fast, description of metal ring sealed, 24:36020(P)
core components for, test loop for, 22:7788(R) (ANL-7382)
core components in liquid sodium cooled, use of noise analysis for measurement of flow induced vibrations of, 24:52874 (ANL-7685, pp 177-204)
core components of fast, use of silicone rubber replication techniques for inspection of, 24:7138
core configuration for liquid sodium-cooled fast, description of multiple concentric region, 22:39803(P)
core design for easy access, 21:30224(P)
core design for graphite-moderated, 21:10184(P)
core design optimization for 1000 MW(e) sodium cooled fast, nonlinear programming methods for, 25:8051 (KFK-1238)
core disassembly and meltdown accidents in, performance of cooling system and containment structure during, 25:54206 (HEDL-TME-71-50)
core for fast breeder power, effects of wrapper tube fuel elements on performance of step, 24:22413
core for fast breeder, design parameters of, 22:16205
core for fast sodium cooled, layered panels for use as thermal insulation of, 24:16184(P)
core for fast sodium-cooled, design and development of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:11234 (APDA-231)
core for fast, design of zoned fuel, 21:7909
core for fast, hydraulic and structural problems in design of, 24:52920
core for pebble-bed, description of multiple coolant ducts for concentric cylinder, 23:15606(P)
core for PEC, static and dynamic characteristics of, 22:16207
core for small process heat, description of solid homogeneous metal hydride moderated concentric circle arranged, 23:40369(P)
core for, design parameters for, 24:16152(P)
core for, design parameters of gas insulation sleeves for, 24:47860(P)
core for, ultrasonic transmission system for temperature measurements in, 24:16326(P)
core handling equipment for fast test, description of, 25:54216(P)
core meltdown accidents in liquid sodium cooled fast, methods for analysis of, 25:8098 (BNWL-SA-3093(Vol.2), pp XVI.1-62)
core meltdown accidents in sodium cooled fast, effects of energy release from, 25:8100 (BNWL-SA-3093(Vol.2), pp XVIII.1-41)
core meltdown accidents in sodium cooled fast, energy release mechanisms during, 25:8099 (BNWL-SA-3093(Vol.2), pp XVII.1-49)
core meltdown accidents in, methods for analysis of mechanical work energy produced during, 25:60121
core meltdown for sodium fast breeder, energy release from fuel-sodium interactions during, 25:41485
core meltdown for sodium fast breeder, heating transients during, 25:41486
core meltdown for, effects of core support plate configuration on burnout during, 25:41487
core meltdown in fast, use of TREAT reactor for analysis of simulated, 22:39813
core meltdown in sodium cooled, simulation of heat transfer and pressure behavior following, 24:33367
core meltdown in, calculation of incipient boiling superheats during, 25:41473
core meltdown in, effects of fuel materials and configuration on, 25:18168 (ANL-7752)
core neutronics analysis for, models for, 21:38457(R) (GEAP-5491)
core of fast, design parameters for liner tube, 24:28990(P)
core of fast, review of AEC programs on safety aspects of, 25:6087
core of fast, safety aspects of, 25:6086
core of, superposition principle for calculation of temperatures in, 24:46006
core optimization for sodium cooled, nonlinear programming method for, 25:28655(T) (EURFNR-830)
core parameters of 1000 MW(e) sodium cooled, optimization of, 23:52311(T) (JPRS-48331, pp 372-406)
core structure for sodium cooled, with orificing pattern for hydraulic clamping, 25:18109(P)
core structure of fast, fast neutron radiation effects on swelling of, 25:48256 (CONF-710601-4)
core tank of sodium cooled, tracked leak tight support for rotary seal plug of, 24:35996(P)

core transient temperature calculations in, hybrid computer program for, 23:47224 (CNM-R-2(Vol.2), pp 682-708)
core vessel for fast, liquid sodium thermal insulation for, 25:39263(P)
core vessel for sodium cooled, sealing means and cover gas circulation system for, 25:18124(P)
core vessels for sodium cooled, sealing means for rotatable covers on, 25:60021(P)
core vessels for, design requirements and stress limits for, 25:20725 (WHAN-SA-46)
cores for, comparison of optimum cylinder shaped and modular, 24:18593
cores for, development of high flux heaters for simulation of, 22:14138 (NAA-SR-Memo-12485)
corrosion control in, method of, 21:2834
corrosion product distribution in fast breeder, 23:43094 (AI-AEC-12847)
cover gases in, mass spectrometer for on-line analysis of, 22:33207 (LA-DC-8999)
critical flow calculations for sodium coolant in case of accidental power surge, 21:23589(R) (ANL-7308)
criticality calculations for fast breeder, space—time effects on, (T), 25:10180
criticality calculations for small high-temperature lithium-cooled, for space power systems, 22:37512 (N-68-15792)
description design for 300 MW(e) liquid sodium-cooled fast Na-2, 22:37439(T) (EURFNR-462)
description of .1 MW(e) fast enriched uranium carbide-fueled, 22:25063 (DLR-MITT-66-07, pp 87-99)
description of 1000 MW(e) fast breeder, reference design plant, 22:9990(R) (BAW-1312)
description of 300 MW(e) fast breeder, 22:6036
description of 300 MW(e) liquid sodium-cooled fast breeder, 22:39826
description of fast, 22:18524
description of fast breeder, with unclad metal fuel for desalination of seawater, 22:27455 (ORNL-4229, pp 188-90)
description of fast, heterogeneous, 22:18533(P)
description of fast, in France, 22:18503
description of floating liquid salt-fueled fast burst, 22:25117(P)
description of liquid plutonium alloy-fueled rotating centrifugal force-controlled sodium, 22:25070(P)
description of PEC, for fast fuel element testing, 22:1867(T) (ORNL-tr-1786)
description of plutonium phosphide (PuP)-fueled lithium, 22:25069(P)
description of zoned fuel fast, 22:18539(P)
descriptive parameters of, tabulation of, 21:27723
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and development of fast breeder, 21:17491
design characteristics of fast, comparison of, 25:60094 (CONF-710922-2)
design characteristics of, tabular summary of, 24:18593
design concepts for fast, review of problems in, 23:47151 (ANL-7520(Pt.2), pp 3-19)
design concepts in Japan for 1000 MW(e) fast breeder, comparison of component characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
design criteria in Japan for fast, safety considerations for, 23:47218 (ANL-7520(Pt.2), pp 67-76)
design features of 500-MW(e) second-generation fast sodium, 21:10176
design for carbide-fueled, effects of physics characteristics on, 24:7098
design for space vehicle, 21:4405(P)
design for, engineering, 21:40579 (UCID-15192)
design having negative coefficient of reactivity, 21:23696(P)
design model for optimum reflector-controlled fast rocket, description of, 22:39869
design of 10 MW(e) Rankine-cycle lithium-cooled uranium nitride (UN)-fueled, for space electric propulsion, 22:30282 (UCRL-50382)
design of 10,000 MW(t) fast breeder, 21:23588 (ANL-7183)
design of 10,000 MW(t) fast breeder, 21:40532 (ANL-7290, pp 216-26)
design of 10,000 Mwt sodium, 21:40664
design of 1000 MW(e) sodium, 21:30093(R) (ANL-7317)
design of 1000 MW(e) sodium-cooled fast, 21:23657
design of 1000-MW(e) fast, economics and feasibility of coupled-core, 21:17459 (NAA-SR-11378(Vol.1))
design of 300 MW(e) liquid sodium cooled, 21:46848 (EURFNR-368)
design of fast breeder, 21:8011(P)
design of fast, based on updated safety and design criteria, 21:27673 (GEAP-4939)
design of fast, effects of liquid sodium hydraulic characteristics on, 24:46032 (CONF-700307-3)
design of German 300 MW(e) fast sodium, conceptual, 22:16187
design of heterogeneous, using core-confined floating canned liquid fuel pellets, 21:17547(P)
design of large fast breeder sodium, using plutonium—uranium-238 cycle, 21:4391(P)
design of PEC, conceptual, 22:16207
design of sodium cooled fast breeder, system and component requirements in, 24:18603
design of sodium cooled test, 24:47911(P)
design of sodium cooled, optimum thermodynamic parameters for, (T), 25:48239
design of sodium cooled, reliability of safety systems in, 24:24872
design of sodium, description of computer program for treating coolant phase changes during transients for liquid, 22:53376
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, book on, 24:38396
design parameters for 1000 MW(e) fast breeder, 21:40528 (ANL-7290, pp 139-69)
design parameters for 1000 MW(e) fast liquid sodium-cooled, NAPS computer program for optimum, 23:5992 (BAW-1326)
design parameters for 1000 MW(e) liquid sodium-cooled fast breeder, description of optimum, 22:37504
design parameters for 300 MW(e) conceptual fast breeder liquid sodium, safety, 22:53360
design parameters for 300 MW(e) prototype fast breeder, in Japan, 24:11162
design parameters for aircraft, conceptual, 25:51207
design parameters for conceptual 1000 MW(e) fast breeder, 23:31143
design parameters for conceptual 20 kW in-core thermionic, 23:43092
design parameters for conceptual 500 MW(e) fast breeder, 23:19465 (NP-17784)
design parameters for French, German, and United Kingdom fast, analysis of, 22:35498
design parameters for German fast sodium, conceptual, 22:22703 (KFK-660)
design parameters for Japan 100 MW(t) plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)-fueled fast, description of, 23:9123
design parameters for liquid sodium-cooled fast breeder power, description of optimum, 22:37448 (NP-17521)
design parameters for liquid sodium-cooled unclad plutonium—thorium—uranium-fueled dual-purpose desalting and power, analysis of optimum economic, 23:13556 (ORNL-4202)
design parameters for mixed uranium carbide (UC)—plutonium carbide (PuC) fueled breeder, analysis of optimum economic, 25:28664
design parameters for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled fast, effects of coolant properties on optimum, 23:23896 (EURFNR-615)
design parameters for space vehicle of conceptual 1 kW(e) to 1 MW(e) uranium nitride (UN) fueled high temperature fast, calculation of optimum, 23:49603 (UCRL-71149)
design parameters in Italy for reference 1000 MW(e) PCC-2 fast breeder, analysis of optimum economic, 23:47160 (ANL-7520(Pt.2), pp 254-68)
design parameters in Japan for prototype 200 to 400 MW(e) fast breeder, analysis of optimum, 23:47156 (ANL-7520(Pt.2), pp 110-20)
design parameters in Japan for two conceptual 1000 MW(e) fast breeder, comparison of, 23:47153 (ANL-7520(Pt.2), pp 77-85)
design parameters in Japan of prototype fast breeder power, 25:3855
design parameters of 300 kW(e) Rankine cycle lithium cooled fast, analysis for space vehicles of optimum, 24:16257 (N-70-11975)
design parameters of fast breeder power, 24:5516
design parameters of lithium cooled, for space power, 25:41578
design parameters of lithium cooled, for space power, 25:41579
design parameters of lithium cooled, for space vehicles, 25:46313 (N-71-17422)
design parameters of plutonium oxide (PuO$_2$)-uranium oxide (UO$_2$)-fueled 350 to 500 MW(e) fast breeder GPU/AI, analysis of conceptual, 22:37463
design philosophy for first German sodium, 23:23860
design problems in Japan for conceptual 1000 MW(e) fast breeder, 23:47154 (ANL-7520(Pt.2), pp 86-9)
design problems with fast breeder, review of, 25:60008 (CONF-710922-4)
design requirements for sodium cooled dual-purpose power and desalination, 23:49627
design specifications for development of LMFBR, description of conceptual, 22:32906
development activities during April—May 1969, 23:37444(R) (ANL-7577)
development at Argonne National Laboratory, October 1970, 25:8047(R) (ANL-7753)
development for space systems, 23:534
development in Belgium, Denmark, Germany, and Netherlands of fast breeder, review of joint, 25:54026 (A/CONF.49/P-366)
development in France of, review of, 23:47152 (ANL-7520(Pt.2), pp 20-3)
development in Germany during 1970, 25:31538
development in Germany of fast breeder, 25:60012 (JUL-775-RG)
development in Italy of fast breeder power, cost analysis for, 25:54019 (A/CONF.49/P-175)
development in Japan of fast breeder power, technology for, 23:13421
development in Japan of fast breeder, description of O-Arai Engineering Center for, 24:50193
development in Japan of fast breeder, review of, 23:28421
development in U. S., survey of, 25:10102
development in U.K. of fast, 25:54030 (A/CONF.49/P-481)
development in U.S. of fast breeder power, cost—benefit analysis of optimum economic, 23:33058 (WASH-1126)
development in U.S.S.R. of fast power, review of, 24:18598
development in western Europe of fast breeder, 21:46885
development of 1000 MW(e) fast breeder, system effectiveness approach for optimum, 23:19470
development of 1000 Mw(e) sodium-cooled fast, feasibility of, 21:1166 (NAA-SR-11378(Vol.2))
development of Belgian—Dutch—German 300 MW(e) prototype fast breeder, review of design considerations and experimental programs for, 23:47157 (ANL-7520(Pt.2), pp 130-46)
development of boiling fast, use of EBR-I facility for, 21:19343 (ANL-7212)
development of breeder power, review of general trends in, 23:31145
development of fast, 24:52854 (STI/PUB-256)
development of fast breeder, 25:1861
development of fast breeder, 21:13946(R) (ANL-7279)
development of fast breeder, 21:13947(R) (ANL-7286)
development of fast breeder power, conference on, 23:47150 (ANL-7520(Pt.2))
development of fast breeder power, summary of, 25:60029
development of fast breeder sodium, program for and problems in, 23:23867
development of fast breeder, comparison with advanced thermal and steam-cooled fast breeder reactor, 23:11176
development of fast breeder, engineering aspects of, 22:16220
development of fast breeder, in Japan, 25:54043 (A/CONF.49/P-819)
development of fast breeder, monthly progress report on Argonne National Laboratory, 22:37401(R) (ANL-7457)
development of fast breeder, operational and economic comparisons with gas cooled and steam cooled, 24:24797
development of fast breeder, review of, 24:46009
development of fast breeder, review of world wide, 24:18610
development of fast ceramic, 21:8122(R) (GEAP-5158)
development of fast sodium-cooled, review of European programs for, 23:4173(T) (ORNL-tr-1783)
development of fast, review of, 24:43703
development of fast, review of RCN program for, 24:47811
development of high-gain 200 to 400 MW(e) sodium-cooled fast breeder, description of prototype, 22:35504
development of Italy fast power liquid sodium-cooled, program for, 23:4177
development of sodium cooled fast breeder, technical and economic factors in, 25:39232
development of sodium cooled fast, CNEN project schedule for, 25:8049 (EURFNR-829)
development of sodium cooled fast, summary of CNEN activities on, 25:8048 (EURFNR-825)
development of sodium cooled, during July 1, 1966 to June 30, 1967, 25:51030(R) (NAA-SR-12492)
development of sodium cooled, European cooperation in, 24:4034
development of sodium cooled, European program for, 24:40903
development of sodium cooled, in United Kingdom, 24:4032
development of sodium, comparison of cost breakdowns for steam cooled reactor development and, 23:23863
development of sodium-cooled fast breeder, in Germany, 23:15609
development of uranium metal fueled sodium cooled, for dual-purpose power and desalination plants, 23:28593(R) (ORNL-4409)
development of, European industrial cooperation in, 24:28862
development of, monthly progress report on Argonne National Laboratory, 22:35422(R) (ANL-7445)
development of, monthly progress report on Argonne National Laboratory, 22:42158(R) (ANL-7460)
development of, review of, 24:18602
development of, review on, 24:14639 (BNL-50215)
development potential of German sodium, short term, 23:23860
development program for 300 MW(e) and 1000 MW(e) fast liquid sodium-cooled, description of, 23:11173
development program for fast breeder, description of United States, 22:30216
development program for fast breeder, use of ING, DFR, EBR-2, and FFTF in, 23:21447 (AECL-3251)
development program for fast power liquid sodium-cooled, analysis of uncertainties for physics parameters and fuel costs in, 22:50733 (GEAP-5635)
development program for German 300 MW(e) sodium-cooled, 22:53336
development program for Great Britain liquid sodium-cooled fast breeder, description to 1985 of, 22:42231
development program for LMFBR, 23:9129
development program for South African heavy water-moderated natural uranium-fueled 1000 MW(e), description of, 22:27421
development program for U. K. fast, description of, 22:46950
development program for U. S. A. fast breeder, description of, 22:46951
development program in Japan of prototype fast breeder power, 23:17181
development programs in Europe, review of, 24:18600
development programs in U.S.S.R. for fast, review of, 24:43707
development, review of, 23:32012 (BNL-50163)
dimensions for fast alkali-metal-cooled space, comparison of heat-pipe and convection-cooled outside radius, 23:2092 (UCRL-71206)
dissolution kinetics in, 21:23589(R) (ANL-7308)
Doppler coefficient calculations for, 25:54208 (HEDL-TME-71-89)
Doppler coefficient calculations for, isothermal, 25:54207 (HEDL-TME-71-81)
Doppler effect calculations for fast test sodium, perturbation theory and programming techniques for optimizing, 23:40386 (CONF-690401-, pp 256-96)
dynamic behavior of 1000 MW(t) fast breeder, analysis of, 22:6027
dynamic behavior of fast power sodium, analysis of, 22:46958
dynamic behavior of fast power, computer program feedback control theory for small signal, 23:34899 (ANL-7529)
dynamics of 300 MW(e) fast breeder, time discontinuous approximation analysis of external actuated excursion effects on, (T), 24:18615 (KFK-964, Sect. 1.1-12)
dynamics of fast, computer program for calculation of, 25:46241 (NP-18890)

dynamics of fast, space-time effects in, (T), 24:50234
dynamics of thermal sodium, use of analog computer for simulation of, 22:35481
economic characteristics of 1000 MW(e) fast, 22:20851
economic comparison of fast breeder, with gas cooled and steam cooled concepts, 24:4035
economics of 1000 MW fast breeder, effects of safety on, 22:5970
economics of 1000 MW(e) fast breeder sodium, effects of parameter variation on, 22:16166(T) (EURFNR-384)
economics of fast, in mixed electrical generating systems with light water reactors, (T), 25:57061 (MLM-1851)
economics of sodium cooled fast, comparison with helium cooled and steam cooled fast reactors of, 24:33356
economics of sodium cooled fast, effects of carbon dioxide gas turbine cycle on, (T), 25:8079 (BMBW-FBK-70-18)
economics of sodium cooled, effects of fuel cycle on, (T), 24:29026
economics of, comparison with other reactor types of, 25:15240
emergency core cooling system for fast, description of laminated metal core casing for, 24:50137(P)
energy releases from hypothetical accidents in, calculation and assessment of, 25:54204 (HEDL-TME-71-34)
equipment for determining carbon content in sodium in, 22:12676 (ANL-7380, pp 111-17)
excursions in fast power, SPES-1 computer program for energy release in uncontrolled prompt critical, 23:23944 (RT/FI-(68)45)
excursions in fast, effects of core trapped coolant on fuel energy release during, (T), 23:43135
excursions in sodium cooled, energy release in prompt critical, (T), 24:47883 (RT/ING-(70)2)
excursions in sodium cooled, hydrodynamic response of containment to high energy, (T), 24:43795
excursions in sodium cooled, inelastic response of containment to high energy, (T), 24:43796
failure data on power and research, handbook of, 24:22429 (LMEC-Memo-69-7(Vol.2))
failure data on power and research, handbook of, 24:22428 (LMEC-Memo-69-7(Vol.1))
fission product aerosol activity release following accidents in, Karlsruhe research program on, 23:2056 (KFK-798)
fission product and sodium smoke sampling from sodium fires in, 21:31923 (CONF-660904-Vol.1 and 2, pp 860-76)
fission product behavior in sodium loops in, PIRANA experiments on, 22:53350
fission product behavior in sodium, during normal operation, 21:40564(R) (NAA-SR-12395)
fission product deposition in, containing failed fuel elements, 22:6020
fission product distribution in fast breeder, STP-1 computer program for, 23:43094 (AI-AEC-12847)
fission product release and transport control in sodium-cooled fast breeder, review of methods for, 22:53396
fission product release and transport in fast breeder power, state-of-the-art review of, 23:19514 (ORNL-NSIC-37)
fission product release from fast sodium, safety analyses of containment systems for prevention of, 22:53353
fission product release to sodium coolant, methods of concentrating, 21:23605(R) (LA-3650)
fission product removal from sodium cooled, effects of carbon on cesium, (E), 25:20754 (AERE-R-6481)
fission product venting system for, 22:16340(P)
fission products in liquid sodium cooled, chemical behavior of, 24:13544 (RD/B/N-1512)
fission products in sodium-cooled, chemical behavior of, 24:11661 (RD/B/N-1513)
fission products released by accidents in liquid sodium fast, behavior and trapping in containment and cooling systems of, (E/T), 24:11208 (BNL-14242)
flowmeter for, testing of a water-mockup for a liquid sodium ultrasonic, 22:22709(R) (NYO-3622-13)
fuel assemblies for fast breeder, analysis of interchannel coolant mixing in wire wrapped pin type, 25:41426
fuel assemblies for fast, description of helix-shaped coolant duct in tubular-shaped bundle-arranged pin-type, 23:11241(P)
fuel assemblies for fast, description of multiple vertical and parallel elongated triple-region, 22:50775(P)
fuel assemblies for fast, description of sleeve-enclosed upper fissile material pin and lower fertile material pin cluster-type, 22:42244(P)
fuel assemblies for fast, description of upward-flow-cooled bundle-arranged multiple tubular pin-type, 23:11243(P)
fuel assemblies for liquid sodium cooled, hydrodynamic and thermodynamic stability of seven rod hexagonal, (T), 23:52354 (UJV-2238-R)
fuel assemblies for upward-flow, description of groove-secured multiple vertical and parallel sheathed bar-type, 22:42243(P)
fuel assemblies for upward-flow, description of multiple parallel vertical-sheathed bar-type, 22:42254(P)
fuel assemblies for, calculation of temperature distribution in bundle-type cylindrical, (T), 22:44865
fuel assemblies of fast, bubble and vapor slug growth for superheat conditions in, (E/T), 23:49557 (RD/B/N-1418)
fuel assemblies of, description of spacer grids for, 24:4065(P)
fuel burnup in sodium cooled converter, effects on physics parameters of, (T), 25:51043 (JAERI-13505)
fuel cladding development for breeder, using stainless steels, 21:30208
fuel cladding for fast breeder, corrosion and compatibility of metal alloy, 25:31568(T) (EURFNR-823)
fuel cladding for use in, fabrication and mechanical properties of vanadium-base alloy, 21:34900(R) (WCAP-3487-16)
fuel cladding for, radiation effects on materials for, 22:711 (BMI-1809, Sect.B)
fuel cladding materials fabrication and testing for, 23:1991(R) (AI-AEC-12680)
fuel cladding materials for, 22:647(R) (BNL-50077)
fuel cladding ruptures in, development of system for detecting, 24:9706 (CEA-CONF-1366)
fuel costs and requirements for 1000 MW(e) fast breeder, 21:30185
fuel cycle costs for, estimation of, 24:272 (ORNL-4422, pp 306-11)
fuel cycle economics for fast breeder, 24:31079 (CONF-700502-, pp 12-29)
fuel cycle economics for fast breeder power-desalination, analysis of optimum, 22:32910
fuel cycle economics for fast-breeder, 21:40950 (CONF-670542-, Paper 5)
fuel cycle for fast breeder power, calculation of optimum economic, 23:49565 (LA-4187)
fuel cycle for fast breeder, chemical processing requirements for, 25:31568(T) (EURFNR-823)
fuel cycle for large fast breeder power, effects of sodium void coefficient on optimum economic mixed, 23:43100
fuel cycle performance potential of sodium cooled fast breeder, comparison of helium cooled reactor with, 24:24841
fuel cycles for 1000 MW(e) sodium—cooled fast breeder, economics of nitride, (T), 22:22659 (BNWL-606)
fuel cycles for, description of optimum liquid uranium fluoride, 22:35497
fuel economics of, effects of power requirements on, 22:3832 (KFK-566)
fuel element assemblies for fast breeder, coolant pressure loss in spiral rib spaced 37 rod bundle, (E), 24:38545 (KFK-1038)
fuel element assemblies for fast breeder, effects of spacer configurations on heat transfer and fluid flow in, 25:31568(T) (EURFNR-823)
fuel element assemblies for fast power, design of spacers for bundle type, 24:46048
fuel element assemblies for fast, effects of spacer designs on pressure drop in rod type bundle, 24:52918
fuel element assemblies for fast, hydraulic characteristics of rod type bundle, 24:52917
fuel element assemblies for fast, vibrations and pressure drops in pin type bundle, 24:52919
fuel element assemblies for, design of, 21:44895(P)
fuel element assemblies for, liquid sodium flow and temperature distribution in triangular rod cluster, (T), 24:24819 (EURFNR-750)
fuel element assemblies for, sodium flow stability in, (E/T), 21:19345 (APDA-181)
fuel element assemblies of fast, description of fission gas plenums for pin type, 24:26786(P)
fuel element assemblies of, analysis of pressure and temperature pulses from liquid sodium, coolant flow in bundle, 24:43734 (EURFNR-784)
fuel element assemblies of, effects of cladding thickness and thermal conductivity on heat transfer in bundle type, (T), 24:24842
fuel element assembly for, design of, 21:44908(P)
fuel element assembly for, design parameters for on-load refueled granule filled tube shaped, 24:5531(P)
fuel element bundles in sodium cooled, heat transfer in cladding boundary region of, (T), 24:40976
fuel element cladding failure in, description of multiple sampling pipes and fission product detection system for, 23:19501(P)
fuel element cladding for fast breeder power, effects of burnup and neutron spectra on failure of, 23:37526
fuel element cladding for fast breeder, corrosion problems for titanium—vanadium alloy, 25:37016 (CONF-700211-9)
fuel element cladding for fast breeder, mechanical properties of austenitic stainless steel, 24:18649 (KFK-964, Sect. 2.1-11)
fuel element cladding for fast, stress analysis of, 23:19495(T) (EURFNR-570)
fuel element cladding for fast-breeder, development and testing of, 22:21699(R) (WARD-3791-13)
fuel element cladding for, mechanical properties of, 21:40564(R) (NAA-SR-12395)
fuel element cladding materials for fast breeder, review of properties of, (E), 22:35425 (BMI-1900)
fuel element configuration for 1000 MW(e) fast breeder, economic analysis of, 22:10005 (KFK-568)
fuel element cycle management in 1000 MW(e) fast breeder, calculation of optimum, 24:22412
fuel element development for fast, 21:30203
fuel element failure for, analysis of gold-198 in liquid sodium for detection of leaks from, 23:17237(P)
fuel element failure in fast, apparatus and methods for detection of, 23:40458(P)
fuel element failure in fast, effects of fission gas release on propagation of, 23:37587
fuel element failure in sodium, effects of power transient fission gas pressure on mixed oxide, 25:6098
fuel element failure in U. S. fast power, performance of detection system for, 24:4019
fuel element failure in, energy release from, 25:41538
fuel element failure limits for sodium, oxide pin type, 25:6096
fuel element failure thresholds for sodium, 25:41539
fuel element failures in sodium cooled, mechanisms and consequences of, (E), 25:54141 (A/CONF.49/P-27)
fuel element failures in, delayed neutron monitoring for detection of, (E/T), 25:28698 (NP-18778)
fuel element for pebble-bed fast breeder, description of tube-and-shell heat exchanger, 22:35490(P)
fuel element for, development of fission product hydraulic vents for liquid sodium-cooled fast ceramic, (E/T), 23:4243
fuel element handling in, 21:5655(P)
fuel element loading machine for, description of, 22:3872(P)
fuel element meltdown and dispersal effects in sodium-cooled, (E/T), 22:27397 (ANL-7375, pp 135-59)
fuel element meltdown in sodium cooled, CABRI in-pile loop program on, 23:31182 (CEA-CONF-1259)
fuel element meltdown in, energy release calculations for metal and oxide, 25:6082
fuel element processing for, design and cost estimate of facility for, 22:27954 (ORNL-TM-2050)
fuel element transfer bucket for fast, description of spill resistant, 25:31582(P)
fuel elements for fast breeder power, performance requirements for delayed neutron monitoring, for detection of failure of, 23:31179 (ANL-7533)
fuel elements for fast breeder sodium, design and safety optimizations of plutonium—uranium carbide, 22:53368
fuel elements for fast breeder sodium, radiation histories of oxide, 23:23867
fuel elements for fast breeder, description of radial-cooled conical annular, 22:35488(P)
fuel elements for fast breeder, design of, 24:31066 (CONF-700502-, pp 49-58)
fuel elements for fast breeder, fabrication and testing of mixed-carbide, 22:53463(R) (UNC-5217)
fuel elements for fast breeder, fabrication of thorium—uranium alloy compacted powder, 24:31124(R) (ORNL-4538)
fuel elements for fast breeder, irradiation testing of plutonium oxide (PuO_2)—uranium oxides (UO_2), uranium oxide (UO_2), uranium oxide (UO_2) cermets, uranium carbide (UC), and uranium nitride (UN), 25:31568(T) (EURFNR-823)
fuel elements for fast breeder, preparation of plutonium nitride (PuN)—uranium nitride (UN) by carbothermic reduction process for, 22:32815
fuel elements for fast liquid sodium-cooled, description of rod-shaped vented annular, 23:9163(P)
fuel elements for fast, description of tubular-shaped bundle-arranged multiple-chamber pin-type, 23:11242(P)
fuel elements for fast, design of fission gas vented, 24:38546(P)
fuel elements for fast, development of hydraulic venting device for ceramic, 25:34360 (RT/ING-(70)29)
fuel elements for fast, development of stainless steel and Incoloy 800 clad plutonium carbide (PuC)—uranium carbide (UC) and plutonium carbide (Pu_2C_3)—uranium carbide (U_2C_3) rod type, 24:7116 (UNC-5229)
fuel elements for fast, effects of rotating wire spacers on heat transfer in bundle arranged pin type, (E/T), 25:37020 (WHAN-SA-76)
fuel elements for fast, failure testing of uranium oxide (UO_2) cluster arranged, (E/T), 24:33318
fuel elements for fast, methods and analysis of failure propagation in, 24:20579 (NP-18150)
fuel elements for fast, neutron radiation effects on, 22:7808(R) (GEAP-5522)
fuel elements for fast, radiation effects on, 22:18511
fuel elements for high temperature, description of liquid metal-bonded metal-clad multiple wafer, 22:42246(P)
fuel elements for sodium cooled fast, development of, 25:8074 (EURFNR-827)
fuel elements for sodium cooled, development of uranium oxide (UO_2) and uranium carbide (UC), 25:31572
fuel elements for sodium cooled, friction and erosion between spacer grids and, (E), 25:44087(T) (EURFNR-854)
fuel elements for sodium cooled, properties of Type 316 stainless steel cladding for, (E), 25:37139 (CONF-700211-7)
fuel elements for sodium cooled, spacer design effects on pressure drop and temperature profile of, (E/T), 24:26773 (KFK-1154)
fuel elements for sodium, stress analyses of austenitic steel and nickel alloy claddings for, 22:53273(T) (EURFNR-472)
fuel elements for sodium, stress analyses of austenitic steel and nickel alloy claddings for, 22:32774 (KFK-700(Pt. VIII))
fuel elements for, behavior during accidents of sodium-bonded metallic, 22:22747
fuel elements for, calculation of maximum pressure in, 25:13662
fuel elements for, coolant sampling system for detection of, 24:11332(P)
fuel elements for, description of frozen coolant plug regulated particle type, 23:45087(P)
fuel elements for, description of granular, 22:33121(P)
fuel elements for, design of, 21:40579 (UCID-15192)
fuel elements for, design of, 21:34177(P)
fuel elements for, design of clad ceramic, 24:2995(P)
fuel elements for, design of plutonium—uranium monocarbide for fast breeder, 21:45977(R) (WCAP-3791-8)
fuel elements for, design of vented, 24:50250(P)
fuel elements for, effects of coolant flow on vibration of pin type, (E), 24:26772 (KFK-1082)
fuel elements for, effects of rod spacing on stresses and temperature distribution in clusters of rod, 25:54115
fuel elements for, effects of sodium vapor condensation on deformation of, (E/T), 24:9093 (NP-18060)
fuel elements for, energy release from failed uranium oxide (UO_2) pin type, 25:41480
fuel elements for, fuel-cladding interaction in metallic, 22:30118 (ANL-7438)
fuel elements for, fuel-sodium interaction during meltdown of, 25:41482
fuel elements for, fuel-sodium interaction during meltdown of uranium (UO_2) pin type, 25:41542
fuel elements for, grid locking device for rod type, 25:28693(P)
fuel elements for, heat transfer for laminar flow in bundles of rod type, (T), 24:50124
fuel elements for, mathematical model for determining effects of flowing liquid sodium on cladding of, 23:9157 (KFK-808)

fuel elements for, nonsteady-state factors in models for, 24:38553
fuel elements for, stress rupture tests for cladding for, 22:27396(R) (AI-AEC-12638)
fuel elements for, testing of Type 316 stainless steel clad plutonium carbide (PuC)—uranium carbide (UC) pin type, 24:46045 (WARD-3791-33)
fuel elements for, use of lead bath for sodium removal from spent, (E), 25:23294(T) (CONF-700307-7)
fuel elements in France of, methods of detection of rupture of, 23:13447 (NP-17751)
fuel elements of ceramic fueled fast, performance of hydraulic vents for gaseous fission products in, (E/T), 24:22407 (RT/ING-(69)30)
fuel elements of fast breeder, development of delayed neutron monitoring failure detection system for, 25:57055 (JAERI-Memo-4157, pp 84-8)
fuel elements of fast breeder, development of failure detection systems for, 25:57056 (JAERI-Memo-4157, pp 89-100)
fuel elements of fast power, fission gas collection system for, 25:54119 (RT/ING-(71)2)
fuel elements of fast, coolant flow induced vibrations in pin type, (E/T), 25:15370
fuel elements of fast, description of integral gas collecting liquid metal cooled failure sensor for, 23:43122(P)
fuel elements of fast, failure thresholds and mechanisms for, (E), 25:6018
fuel elements of fast, fast neutron radiation effects on swelling of, 25:48256 (CONF-710601-4)
fuel elements of, description of fission gas vent system for, 24:24845(P)
fuel elements of, design parameters of fission gas vented, 23:52359(P)
fuel handling and maintenance machine for, description of sodium-immersed ultrasonic transducer for, 22:22654 (APDA-220)
fuel management in 1000 MW(e), optimization of radial blanket, (T), 25:15378
fuel meltdown in sodium, heat transfer and pressure pulses from fuel-sodium interactions during, 25:41545
fuel of, use of frozen coolant plugs for loading and unloading, 24:5530(P)
fuel pellet and rod failure in sodium fast, probability analysis of, 25:51105
fuel pin cladding for sodium, CRASH computer program for strain and stress analysis for, 24:16309 (KFK-1050)
fuel pin vibrations in liquid sodium cooled, instrumentation for measurement of flow induced, 24:52873 (ANL-7685, pp 141-76)
fuel pins for, development of cladding materials for, 22:16202
fuel reloading of 1000 MW(e) fast breeder, description of, 22:9990(R) (BAW-1312)
fuel reprocessing for fast breeder, aqueous methods for, 23:21781(R) (ORNL-TM-2552)
fuel reprocessing for, development of fluoride volatility processes for, 23:19820 (CONF-680610-, pp 65-78)
fuel rod bundles for, heat transfer in triangular-spaced unbaffled, 23:21492
fuel rod vibration eigenfrequencies and damping in, analysis of transverse sodium flow-induced, (E/T), 22:44922 (KFK-731)
fuel subassemblies for, use of conical array for reduction of coolant pressure drop in, 25:34377(P)
fuel subassembly for fast breeder, description of bundle arranged pin type, 23:45086(P)
fuel temperature distribution in fast breeder, effects of stationary fission gas bubbles on stainless steel-clad sodium-bonded mixed-carbide, (E/T), 23:15639 (CONF-680832-2)
fuels and materials for, development of, 21:2896 (TID-6506(Pt.3)(4th Ed.))
fuels for fast breeder, criticality of, effects of composition and configuration on, 23:17522 (Y-DR-9)
fuels for fast breeder, development in Japan of plutonium bearing, 25:54094 (A/CONF.49/P-821)
fuels for fast breeder, performance of ceramic, 22:30123 (BNWL-SA-1550)
fuels for fast breeder, preparation by Sphere-Pac and pelletization of sol-gel particles, 24:30019 (CONF-700502-, pp 323-41)
fuels for fast, development of ceramic, 21:34108(R) (GEAP-5198)
fuels for fast, development of ceramic, 21:34109(R) (GEAP-5292)
fuels for sodium cooled, physics parameter effects of carbide and oxide, 25:51096 (JAERI-13661)
fuels for, development of, 22:16265(R) (ANL-7403)
fuels for, development of mixed oxide, 21:38457(R) (GEAP-5491)
fuels for, effects of time after discharge on transuranium element composition of, (T), 24:26775 (ORNL-TM-2897)
fuels for, radiation testing of, 22:22653(R) (ANL-7419)
fuels in fast breeder, burnup efficiency of, 25:54135 (A/CONF.49/P-709)
heat exchanger and steam generator performance evaluation for sodium-cooled, 22:44840(R) (UNC-5221)
heat exchanger for sodium, performance evaluation for, 23:40920 (UNC-5236)
heat exchanger for sodium—cooled, thermal—hydraulic and structural performance of, 22:20823(R) (UNC-5200)
heat exchanger for, analysis of heat transfer in liquid metal, 21:30624
heat exchanger for, design of, 23:33301(P)
heat exchanger for, design of 30-MW, 21:15640 (APAE-112(Vol.1))
heat exchanger for, design of improved, 23:7689(P)
heat exchanger for, design of sodium, 22:12506(P)
heat exchanger for, development of sodium-heated, 22:51133(R) (BAW-1280-56)
heat exchanger performance evaluation program for sodium, 21:2830(R) (UNC-5162)
heat exchanger performance in, 22:647(R) (BNL-50077)
heat exchanger tube failures in, pressure pulses from sodium—water reactions following, (E/T), 23:28536 (EUR-4101, pp 125-42)
heat exchangers for fast power, safety problem analysis for single-wall sodium and water liquid—liquid, 23:17183(T) (CONF-670916-4)
heat exchangers for fast, development in Netherlands of, 24:52896
heat exchangers for fast, testing program for intermediate, 24:52903
heat exchangers for sodium-cooled, thermal-hydraulic and structural performance of, (E), 22:32788(R) (UNC-5213)
heat exchangers for, description of baffle system for flow control in, 24:22402(P)
heat exchangers for, description of double-wall multiple ladder-shaped tubes with back-and-forth flow for, 22:53324(P)
heat exchangers for, description of multiple plate-type concave and convex dimple-arranged parallel-flow, 23:2024(P)
heat exchangers for, design of helical coiled- and straight tube-bundle, 23:47227 (ANL-7520(Pt.1), pp 515-26)
heat exchangers for, flow paths for prevention of tube dry out in sodium heated, 24:36058(P)
heat exchangers for, heat transfer in countercurrent liquid metal double-pipe, (E/T), 23:19486 (ANL-7479)
heat exchangers for, nondestructive testing methods for tube joints in, 25:44148 (CONF-700224-, Paper 4)
heat exchangers for, performance evaluation of, 21:23622(R) (UNC-5166)
heat exchangers for, performance evaluation of, 21:35590(R) (UNC-5182)
heat exchangers for, performance evaluation of sodium, 21:25637(R) (UNC-5174)
heat exchangers for, prevention of localized overheating in, 25:28749(P)
heat transfer calculations for sodium, 21:36239
heat transfer characteristics of fast, (E), 25:1851(R) (EURFNR-822)
heat transfer in coolant channels of, derivation of coefficients for forced-convection, 25:54864 (ANL-7754)
heat transfer in multiple fuel rod bundle-type, analysis with longitudinal flow of, (T), 22:53481
heat transfer in sodium cooled, analog computer simulation of, 24:38630
heat transfer in, analysis of longitudinal unbaffled rod bundle, (E/T), 24:1986
heat transfer in, effect of variable wall heat flux on, 22:10492
heat transfer in, effects of turbulent fluid flow on rod bundle, (T), 24:1987
heat transfer parameters for, HECTIC-2 computer program for calculation of, 25:23256 (KFKI-70-33-RPT)
hot channel factors for fast, statistical method for evaluating, (T), 23:19549 (EURFNR-604)
hydraulics in fast, design problems with liquid sodium, 24:52910
incidents in, pressure and temperature transients for air—sodium, (T), 24:38580 (KFK-1034)
instrumentation for boiling detection and flow measurement, development of ultrasonic, 21:40566(R) (NYO-3622-10)
instrumentation for sodium, design of signal transmitter for in-core, 23:35561
instrumentation for sodium, development of UNC oxygen meters, 24:14338 (APDA-245)
kinetics of 1000 MW(e) fast breeder, effects of burnup and fuel cycle management on, (T), 24:4043
kinetics of conceptual Japan 1000 MW(e) fast breeder, calculation of optimum, 23:47182 (ANL-7520(Pt.2), pp 99-109)
kinetics of fast, effects of fuel element deformation on, 24:18650 (KFK-964, Sect. 3.1-15)
kinetics of large fast, 21:27698
kinetics of, analog program for, 21:15656 (KFK-465)
kinetics parameters of, effects of sodium 2.85 keV resonance scattering data on, (T), 25:3928 (JAERI-Memo-4110)
leaks of liquid sodium from stainless steel vessels of, effects of temperature on, (E), 23:40349 (LA-4129)
liquid metal systems and components for, review of engineering standards and specifications for, 21:32293(R) (NAA-SR-12416)
loading machine for fast, 25:31581(P)
loading machine for fast breeder, description of extension tube grab type, 24:52943(P)
loading machine for fast liquid sodium-cooled, description of pressure vessel-penetrating horizontal pivot and transverse member vertical-access, 22:39800(P)
loading machine for fast liquid sodium-cooled, description of pressure vessel-penetrating externally-driven vertical axis-rotating turntable with extending arm and grippers, 22:39801(P)
loading machine for fast, description of shielded valve sealed dual oblique ramp, 23:23920(P)
loading machine for, description of gas pressure balanced liquid sodium-filled, 22:16237(P)
loading machine for, description of overhead tube-shaped varying-pressure, 23:17198(P)
loading machine for, description of valve sealed overhead high temperature cover gas, 23:23923(P)
loading machine for, design parameters for sealed casing enclosed, 24:47873(P)
loading machines for fast, design parameters and operation requirements of, 24:52932
lubrication problems in, 23:35437
magnetohydrodynamic systems for use with, development of, 21:40530 (ANL-7290, pp 178-87)
materials development and testing for MPRE, 21:13099 (ORNL-3970, pp 185-92)
materials development for, 21:7885(R) (NAA-SR-12175)
materials development for fast liquid sodium- and NaK-cooled, analysis of problems in, 23:11163 (CONF-680419-, pp 445-8)
materials for fast breeder, properties of, 24:7375
materials for sodium, review of, 22:34008 (BNL-12482)
materials for, effects of high temperature sodium on, 22:8725(R) (MSAR-67-207)
materials for, sodium effects on sliding and static wear of alloy and metallic, 22:657 (NAA-SR-12446)
materials testing for sodium, 21:16589 (BNL-50034)
monthly progress report on, Argonne National Laboratory, 23:4164(R) (ANL-7478)
neutron cross sections for fast, effects of components compositions on effective inelastic, (T), 24:36007
neutron Doppler coefficient of, semiempirical formulation of, 21:15707
neutron elastic scattering of 300 MW(e) fast, KFK-NAP group set for, (T), 23:9131(T) (EURFNR-533)
neutron flux distribution in sodium-cooled fast breeder, analysis of, 21:17454 (KFK-448)
neutron fluxes in, detailed calculation of effects of interfaces between resonance—scattering media on, 22:9988(R) (ANL-7391)
neutron physics for fast, analysis of fast, 22:39875 (BNL-50082, pp 1-18)
neutron spectra in sodium coolant and in structural material of, (E), 22:30155(R) (NAA-SR-12296)
neutron spectra in sodium cooled, review of determination techniques and data on, (E/T), 24:47830
neutron spectra in zoned oxide fueled cores of, (E/T), 23:43147(R) (GA-9259)
noise characteristics of, methods for detection and identification of, 23:52324(T) (JPRS-48331, pp 269-79)
nucleate boiling in sodium, superheat requirements for, 21:23589(R) (ANL-7308)
operating experience with fast, review of, 25:60094 (CONF-710922-2)
operating experience with sodium cooled, summary of, 24:4070
operation of fast, description of optimum, 22:18516
operations aspects for mixed uranium carbide (UC)—plutonium carbide (PuC) fueled breeder, analysis of optimum economic, 25:28664
operations during February to June 1969, 24:13531
operations experience with BR-5 fast sodium, 23:11269(T) (AEC-tr-6976)
oxygen concentration indicator for cooling system of, use of sodium oxide (Na_2O) plugging meter for, 22:24967 (LA-DC-9423)
physics calculations for 2.17 MW Lithium-7 cooled fast, 24:16254 (N-69-40061)
physics calculations for fast breeder, comparison of methods for, (T), 25:51048 (TRG-Report-2133)
physics calculations for sodium cooled uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled, 25:44194 (FEI-213)
physics calculations for sodium cooled, comparison of international, 25:44101 (TRG-Report-2133)
physics characteristics of carbide fueled sodium cooled, transport and diffusion theory calculations of, 25:28812
physics characteristics of sodium cooled, comparison of steam cooled reactors with, (E/T), 24:29000
physics measurements for 1000 MW(e) fast breeder, analysis of optimum economic, 23:47177
physics measurements for fast breeder, effects of core loading and configuration on, 25:31568(T) (EURFNR-823)
physics measurements for liquid sodium-cooled fast, perturbation method of error analysis for, (T), 22:35708
physics measurements in rocket fast, effects of gaseous fission product venting on, 23:2089 (N-68-30516)
physics measurements on large plutonium-fueled, interpretation of, (E/T), 23:6030
physics parameters for 1000 MW(e) fast sodium, analysis of, (T), 22:18601
physics parameters for, evaluation of, 21:38457(R) (GEAP-5491)
physics parameters in fast, economic effects of uncertainties in, 22:22740
physics parameters of 1000 MW(e) fast, nonlinear programming methods for optimum, (T), 25:15351
physics parameters of 1000 MW(e) uranium oxide (UO_2) fueled fast, effects of burnup on, 24:43724
physics parameters of sodium cooled converter, (T), 25:51044 (JAERI-13590)
piping flexibility for fast breeder power, design and analysis of, 22:39812
piping system for sodium fast breeder, response analysis for rupture in primary, 25:41459 (CONF-710315-5)
piping system for, description of telescoping tube bellows type expansion joints for, 25:54079(P)
piping systems for, design requirements and stress limits for, 25:20725 (WHAN-SA-46)
piping systems with large temperature differentials for fast sodium, problems of design of, 22:16197
power conversion system for fast breeder power, analysis of chemical compatibility and power cycles for carbon dioxide gas turbine, 23:47228 (ANL-7520(Pt.2), pp 147-53)
power conversion system for fast power, description of metal vapor operating magnetohydrodynamic, 23:40381(P)
power conversion system for fast power, description of multiple-loop superheat, 23:11267(P)
power conversion system for space-flight fast liquid lithium-cooled power, development of alkali metal Rankine, 23:6033
power conversion system for, description and testing of liquid-metal magnetohydrodynamic, 22:7889
power conversion systems for fast power, design requirements for, 24:47854

power excursions in sodium cooled fast, use of MELT-II code for analysis of, 25:8097 (BNWL-SA-3093(Vol.2), pp XV.1-68)
power monitors for, development of all-solid in-core rhodium, 22:14128 (ANL-7380, pp 140-5)
power shift in sodium cooled breeder, effects of long-term operation on, (T), 25:60044
power supplies for sodium-cooled fast breeder, integration of auxiliary and emergency, (T), 22:35484
power system for lithium-cooled space, description of potassium Rankine cycle turboelectric, 22:30287
power transients in fast liquid sodium-cooled, model simulation analysis of bulk boiling, 22:39811
pressure loss accident calculations for sodium, comparison of results from BURP- and TRANSFUGUE IIa-code for, 22:27396(R) (AI-AEC-12638)
pressure sensors for, description of miniaturized, 22:14127 (ANL-7380, pp 63-4)
pressure vessel for fast, design parameters of inner and outer face dip seal plug for, 24:47852(P)
pressure vessel of fast, damage assessment method for effects of accidents on, 25:6064
pressure vessel of fast, model study for shock wave effects on, 24:29005
pressure vessel plug for fast, design parameters of penetration access, 24:28990(P)
pressure vessels for, acoustic holography for inspection of, 23:6320 (BNWL-SA-2017)
pressure vessels for, design of coolant seals for, 25:57043(P)
pumps for fast breeder, development in France of liquid sodium, 24:52892
pumps for fast liquid sodium-cooled, development of optimum 50,000 to 100,000 gpm, 22:46962
pumps for fast, development in Japan of mechanical liquid sodium, 24:52894
pumps for fast, development in Netherlands of liquid sodium, 24:52893
pumps for fast, development in U.K. of electromagnetic and mechanical liquid metal, 24:52756
pumps for fast, development in U.S.S.R. of liquid metal, 24:52891
pumps for liquid sodium cooled fast, development of electromagnetic, 25:23279
pumps for power, performance requirements of, 24:29008
pumps for sodium cooled, review of development of coolant, 24:4055
pumps for, design and testing of sodium-lubricated bearings for, 23:11692(R) (NYO-3930-3)
radiation detectors for use in LMFBR, design of self-powered, 22:12570 (ANL-7380, pp 139)
radiation detectors in U. K. for power, performance of high temperature, 25:39258 (IAEA-119, 4p.)
radiation streaming in fast, design requirements for γ and neutron, 25:5976
radiation target cans for sodium, design of, 24:26852(P)
reactivity control devices and systems for, bibliography on, 24:36061 (BNWL-1387)
reactivity control in space, effects of heat pipes on power- and temperature-actuated, (T), 23:4393
reactivity control of fast, effects of 1 percent lithium in primary coolant on, 23:2017(P)
reactivity in, effects of sodium coolant boiling on, 21:35612
reactivity measurement using rod-drop method, (E), 25:54199 (ANL/EBR-28)
reactivity multiplcation factor and void effect for fast breeder, effects of calculational methods on errors for, 25:8056 (KFK-1180)
reactivity of zoned-core, analysis of sodium void effects on, 21:35722 (NP-16853)
reactivity stability in large plutonium-fueled fast power, sodium void and Doppler effects on, 23:19477 (IA-1177)
reactivity transients in, effects of sodium temperature coefficient on, 22:6011
reactivity void coefficient in, core loading method for reduction of positive, 25:34326(P)
reflectors for fast, description of overhead, 22:10052(P)
refueling of sodium cooled, open-reactor hot-cell concept for, 25:48273 (CONF-710315-21)
remote handling devices for fast, development of, 24:43744
remote handling equipment for fast, description of thermocouple, 24:50136(P)
remote handling equipment for fast, design parameters and operation requirements of fuel storage, 24:52932
response during sodium boiling accidents in, theoretical analysis of, 22:5971
safety analyses for, calculation of thermodynamic equilibria during combustion in sodium-air systems, 21:46886
safety analysis in U.K. for fast, 24:31088
safety analysis of fast breeder, requirements of, 25:48287 (IRS-T-18(1969), pp 191-4)
safety aspects of fast, 25:60113 (CONF-710922-3)
safety aspects of fast breeder, effects of carbide fueled core on, 24:7157
safety characteristics of 1000 MW(e) fast, 22:20851
safety evaluation for fast, equation of state for, (T), 25:8109
safety evaluation for, boiling and two-phase flow in, 21:7885(R) (NAA-SR-12175)
safety of conceptual PCC, effects of ramp reactivity excursions on, (T), 25:23314 (RT/ING-(70)3)
safety of liquid sodium cooled fast, lecture series on, 25:8085 (BNWL-SA-3093(Vol.1))
safety of sodium cooled fast, effects of coolant boiling on, (E), 23:28512 (EURFNR-626)
safety of sodium cooled fast, regulatory requirements and procedures for, 25:8086 (BNWL-SA-3093(Vol.1), pp I.1-22)
safety of sodium cooled fast, review of problems in, 25:20764 (NP-18487)
safety of sodium cooled, health physics aspects of, 25:51153
safety of sodium cooled, review of design measures for, 23:43140
safety of sodium, measurements of two-phase flow and boiling for analysis for, 21:40564(R) (NAA-SR-12395)
safety of, chemical aspects of, 25:57090 (ORNL-4717, pp 91-107)
safety of, effects of fission gas solubility in sodium on, 25:15573
safety of, effects of pressure pulse propagation in coolant two-phase mixtures on, (E/T), 25:37035 (ANL-7792)
safety of, survey of development programs for, 25:8102 (BNWL-SA-3093(Vol.2), pp XX.1-66)
safety program for fast breeder sodium, U. S, 22:53356
safety research and development for, summary of, 21:40629
safety studies for liquid sodium-cooled fast, analysis of, (E), 22:37402 (ANL-7450, pp 75-89)
seals for, description of lipped- and inflatable-type rotary plug, 23:13590(P)
shielding construction for sodium-cooled fast breeders, 22:27435
shielding for fast breeder, design requirements of, 25:1876
shielding for, neutron attenuation properties of sodium as, (E/T), 23:13460 (AERE-R-5773(Vol.2), pp 483-514)
shielding of fast space-power liquid lithium-cooled, design parameters for, 22:39860 (N-68-18197)
shielding of fast, development program for, 24:26804 (BNWL-1333)
shutdown cooling of sodium, transient processes in emergency, 23:52364(T) (JPRS-48330, pp 325-54)
shutdown cooling of space, sodium loop and radiator for, 25:20805 (N-70-39420)
shutdown margins for, two frequency reactor noise method for worth measurements for, (T), 25:60043
shutdown of fast liquid sodium cooled, effects of neutron absorbing coolant additives on emergency, 24:38561(T) (EURFNR-728)
shutdown of liquid sodium cooled fast, effectiveness of lithium-6 coolant additive for emergency, 24:20547 (KFK-1048)
shutdown of lunar-based lithium cooled, afterheat removal following, (T), 24:52888 (N-70-31885)
shutdown system for fast, effectiveness of coolant carried lithium-6 for, 24:52934
shutdown system for liquid sodium, description of liquid lithium, 24:26792 (KFK-1153)
simulation of, hybrid computer for real time, 25:60218
sodium boiling in, core conditions affecting, 22:37403(T) (ANL-Trans-625)
sodium boiling in, determination of time-dependent nucleate, 25:4210
sodium boiling in, superheat requirements for initiation of, 24:2384
sodium boiling transients in carbide fueled, calculated feedback reactivities and void coefficients for, 23:49572 (ANL-7410, pp 229-337)
sodium boiling transients in carbide fueled, calculated temperature and mass flow rate profiles for, 23:49572 (ANL-7410, pp 229-337)
sodium coolant boiling in, analysis of coolant expulsion and pressure transients resulting from liquid, 22:53374
sodium coolant boiling in, analysis of effects of liquid, 22:53375
sodium coolant combustion rates in, 22:1819
sodium coolant for fast, thermodynamic and neutronic effects of, 24:20579 (NP-18150)
sodium coolant for, analysis of incipient and pool boiling processes in, 24:20579 (NP-18150)
sodium coolant for, development of carbon meter for in-line impurity monitoring of, 22:14143(R) (UNC-5172)
sodium coolant for, development of carbon meter for in-line impurity monitoring of, 22:14145(R) (UNC-5181)
sodium coolant for, development of in-line carbon meter for monitoring impurities in, 22:14144(R) (UNC-5180)
sodium coolant for, oxygen meter for impurity determination in, 22:27396(R) (AI-AEC-12638)
sodium coolant for, oxygen meter for impurity measurements in, 22:14129(R) (APDA-212)
sodium coolant for, results of water-simulation of ejection of, 23:52388 (KFK-940)
sodium coolant for, rhometers for impurity measurement in, 22:14129(R) (APDA-212)
sodium coolant for, time and temperature dependence of bubble formation in, 22:24988
sodium coolant pump power failure in 3500 MW(t) bare-metal fast breeder, flywheel-augmented flow coastdown following, (T), 22:37449 (ORNL-TM-2132)
sodium coolant superheat and flashing in, safety analysis of, 21:46871(T) (EURFNR-353)
sodium coolants for, analytical and in-line techniques for detection of impurities in, 22:9988(R) (ANL-7391)
sodium coolants for, bibliography on chemical aspects of, 22:24962 (HMI-B-68)
sodium coolants for, calculations of ejection of, 22:24988
sodium fires in fast, behavior of fission products in atmosphere surrounding, 22:53351
sodium fires in, characteristics of aerosols generated during, 22:5952
sodium fires in, dispersal of radioactivity from, 21:24114 (NAA-SR-11997(Vol.1))
sodium fires in, energy distribution in simulation of, 22:27396(R) (AI-AEC-12638)
sodium fires in, studies on energy release and transport during, 22:53352
sodium void coefficients for conceptual fast breeder, use of critical assembly measurements for analyzing, 23:37468
sodium void effects in, comparison of theoretical and experimental analyses of, 23:49572 (ANL-7410, pp 229-337)
sodium void reactivity effects in, accuracy of standard sets of multigroup constants for, (T), 22:35517
sodium-water reaction studies for, 21:38435(R) (APDA-204)
sodium-water reactions in, measurements of surface temperatures of, 21:38434(R) (APDA-197)
stability of sodium cooled, optimum control parameters for, (T), 25:51053 (JAERI-13537)
stability of sodium-cooled, effect of boiling and two-phase flow on, (E/T), 22:30155(R) (NAA-SR-12296)
stability of, FORTRAN programs for, 21:15656 (KFK-465)
standards for, development of engineering, 25:10244(R) (ORNL-TM-3212)
standards for, development of engineering, 25:48290(R) (ORNL-TM-2663)
standards for, development of engineering, 25:23313(R) (ORNL-TM-3263)
standards for, development of engineering, 25:34393(R) (ORNL-TM-3342)
steam cycles for 300 MW(e) and 1000 MW(e) fast breeder, analysis of optimum economic, 25:28750
steam cycles for fast, analysis of optimum economic straight and reheat, 24:52955
steam cycles in fast breeder, economics of, 21:17494
steam generating and superheating unit design for, 24:7114(P)
steam generator design for, 23:37607(P)
steam generator design for, 21:26048 (NAA-SR-8508)
steam generator design for 1000 MW(e), boiler inlet header steady state and thermal transient stress analysis for sodium-heated, 22:42174 (BW-67-2(App.)(Vol.5))
steam generator design for 1000 MW(e), boiler outlet header steady state and thermal transient stress analysis for sodium-heated, 22:42175 (BW-67-2(App.)(Vol.6))
steam generator design for 1000 MW(e), functional engineering calculations for sodium-heated, 22:42182 (BW-67-2(App.)(Vol.13))
steam generator design for 1000 MW(e), reheater stress calculations for sodium-heated, 22:42173 (BW-67-2(App.)(Vol.4))
steam generator design for 1000 MW(e), sodium inlet nozzle fatigue analysis for sodium-heated, 22:42179 (BW-67-2(App.)(Vol.10))
steam generator design for 1000 MW(e), sodium inlet nozzle steady state stress analysis for sodium-heated, 22:42180 (BW-67-2(App.)(Vol.11))
steam generator design for 1000 MW(e), sodium inlet nozzle thermal transient stress analysis for sodium-heated, 22:42181 (BW-67-2(App.)(Vol.12))
steam generator design for 1000 MW(e), stress calculations for sodium-heated, 22:42171 (BW-67-2(App.)(Vol.2))
steam generator design for 1000 MW(e), stress calculations for sodium-heated, 22:42170 (BW-67-2(App.)(Vol.1))
steam generator design for 1000 MW(e), superheater inlet header steady state and thermal transient stress analysis for sodium-heated, 22:42176 (BW-67-2(App.)(Vol.7))
steam generator design for 1000 MW(e), superheater outlet header thermal transient stress analysis for sodium-heated, 22:42178 (BW-67-2(App.)(Vol.9))
steam generator design for 1000 MW(e), superheater outlet header steady state stress analysis for sodium-heated, 22:42177 (BW-67-2(App.)(Vol.8))
steam generator design for 1000 MW(e), TEMA calculations, nozzle loading calculations, and steady state calculations for tube sheets for sodium-heated, 22:42172 (BW-67-2(App.)(Vol.3))
steam generator for fast breeder, design of 527 MW(t) sodium-heated, 22:35465 (KFK-654)
steam generator for fast liquid sodium-cooled, thermal shock and corrosion analysis for austenite tubes, 22:39794
steam generator for, analog simulation of sodium-heated, 21:19790(R) (BAW-1280-42)
steam generator for, design and operation of sodium-heated modular, 22:2285
steam generator for, design of high-pressure high-temperature superheating, 21:27838
steam generator for, design of once through, 22:40299
steam generator for, development of large sodium-heated, 22:16735(R) (BAW-1280-48)
steam generator for, gas—water simulation studies of sodium—water reactions in, (E/T), 22:52158 (APDA-226)
steam generator for, hybrid computer simulation of sodium heated once-through, 24:38536
steam generator for, redesign recommendations for sodium-heated, 22:27398(R) (BAW-1280-50)
steam generators for fast liquid sodium, effects of sodium—water reactions caused by leaks in, 22:53355
steam generators for power, design studies for, 22:37443 (ITN/RF-1.1.1)
steam generators for sodium cooled, design of once-through and forced circulation, 23:45100 (CONF-681064-4)
steam generators for sodium cooled, review of development of, 25:23324
steam generators for sodium, analog simulation of effects of sodium—water reactions in, 23:19517 (CEA-CONF-1124)
steam generators for sodium, analysis of modular type, 23:52396(T) (JPRS-48330, pp 313-24)
steam generators for sodium-cooled, corrosion resistance of pearlitic steel for, (E), 25:47089
steam generators for sodium-cooled, properties of austenitic stainless steel for, 25:47090
steam generators for, detection systems for small sodium—water reactions in, 24:9136 (APDA-TM-52)
steam generators for, effects of sodium-water reactions on, 22:5968
steam generators for, effects of sodium-water reactions in, 22:14129(R) (APDA-212)
steam generators for, modular design for, 24:7164

steam generators for, operating characteristics of, 22:16206
steam generators for, optimum design for sodium-heated, 23:2458 (BAW-1280-55)
steam generators for, properties of carbon steels for use in, 25:34334(T) (JPRS-53069, pp 188-96)
steam generators for, safety studies on sodium—water, 22:53354
steam generators for, testing of, 22:10437 (NAA-SR-12534)
steam generators for, thermal convection tube heat transfer system for sodium heated, 24:36059
steels for, high temperature liquid sodium tests on, 21:18208(R) (MSAR-67-17)
structural alloys for, mechanical properties of, 21:40564(R) (NAA-SR-12395)
structural materials fabrication and testing for, 23:1991(R) (AI-AEC-12680)
structural materials for LMFBR, mass transfer testing in liquid sodium corrosion loops of, 23:43943(R) (GEAP-5719)
structural materials for LMFBR, mass transfer testing in liquid sodium corrosion loops of, 22:50735(R) (GEAP-5648)
structural materials for sodium, effects of sodium-induced corrosion on, 22:53273(T) (EURFNR-472)
structural materials for sodium, effects of sodium-induced corrosion on, 22:32775 (KFK-700(Pt. IX))
structural materials for, effect of high temperature sodium on mechanical properties of, 21:43089(R) (MSAR-67-149)
technologic experience and problems with fast power, summary of, 23:11152(T) (AEC-tr-6974)
temperature distribution in core of, effects of hexagonal geometry on, 21:38601
temperature distribution measurements for, sodium loop for, 21:35564(R) (APDA-193)
temperature measurement in LMFBR, development of ultrasonic system for, 22:28209(R) (NYO-3906-2)
temperature measurements in, development of microwave techniques for, 25:48244 (HEDL-SA-122)
test loop for, development of sodium, 21:32824 (JAERI-1129)
thermal hydraulic analysis for, 21:38457(R) (GEAP-5491)
thermal hydraulics of, methods for simulation of, (T), 25:46326
thermocouples for, testing at 2300°C for 1000 hours of tungsten and tungsten/rhenium, 23:35565
thermometry program for LMFBR, summary of, 23:16189 (ORNL-4335, pp 60-71)
transducers for, description of acoustic signal fuel element, 22:20876(P)
transients in large, effects of space-time perturbations with feedback on, 24:7324
transients in sodium cooled, multigroup spatially dependent analysis of mild, 25:60237
transients in, analysis of spectral effects on, 24:7344
transients in, probability of operational, (T), 25:51146
tubing requirements and specifications for, development of thin-walled, 21:40564(R) (NAA-SR-12395)
ultrasonic thermometry system for fast, description of, 22:14139(R) (NYO-3906-1)
use for desalting, 21:23705(R) (ORNL-4087)
use for space power systems, 21:42807
use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
valves for, design requirements of cooling system, 24:52907
vessel closure plug for sodium cooled, liquid filled main and secondary seals for, 25:12771(P)
vessels for sodium, cooled fast, review of design of, 25:51115
vessels for, description of concentric, 25:46162(P)
Reactors, Low-Power
see Reactors, Research
REACTORS, MAGNOX
see also Berkeley Reactors
see also Bradwell Reactors
see also Calder Hall Reactors
see also Chapelcross Reactors
see also Hunterston Reactors
see also Latina Power Reactor
see also Oldbury Reactors
see also Sizewell Reactors
see also Tokai-Mura Power Reactor
see also Trawsfynydd Reactors
see also Wylfa Reactors
boilers for, development of, 25:3900
containment system for, argon-41 activity in cooling air for, 23:29141
control system for, review of, 21:17502
coolant gas corrosive effects on steel, design changes required by, 24:17210
cooling system for, design parameters and performance of, 25:53900 (A/CONF.49/P-469)
cooling systems for, oxidation of mild steel components in, 25:23118
design characteristics of, 25:60030
design parameters of, 24:46009
development in Brazil of power, analysis of optimum economic, 24:3990 (IEA-142)
development in South Africa of, economics for, 23:19506
development in U.K. of, 23:47211 (CNM-R-2(Vol.1), pp 58-69)
development of, review, 21:15684
development of, review of, 24:33232 (TRG-Report-1926)
development of, review of, 24:50069 (CONF-700401-, pp 113-41)
development program for Great Britain, description to 1985 of, 22:42231
economics of, comparison with other reactor types of, 25:15240
fission product content in, use of FISP code for calculation of, 23:52353 (RD/B/N-1428)
fuel burnup limits for, computer program analysis of, (E/T), 22:22773
fuel cladding for, creep in air and carbon dioxide at 350 to 450°C, 22:4786
fuel cycle for U.K., comparison with AGR type and high temperature gas cooled reactor design parameters for optimum, 23:37518
fuel cycles for, 21:14122
fuel element cladding for, diffusion of fission products in, 21:31964
fuel element failure in, performance of detection system for, 24:4018
fuel elements for, design and fabrication of, 22:46937
fuel elements for, developments in fabrication processes for, 25:52427 (A/CONF.49/P-490)
fuel elements of, performance of, 25:53903 (A/CONF.49/P-500)
fuel storage for, equipment and methods for dry, 21:41189
graphite corrosion in, mass-spectrometric studies on, 23:20560 (RD/B/N-1178)
loading machines for, design, development, and operation of, 24:28864
loading machines for, development and operations of, 24:52936
loading machines for, performance of, 25:53901 (A/CONF.49/P-470)
materials for, corrosion and radiation damage of structural, 22:47660 (CONF-671007-2)
operating experience of British, evaluation of, 22:42211 (TRG-Report-1693)
operation and performance of European, improvements in, 22:20831
operation and performance of, in Great Britain, 21:15647(R) (CONF-660450-1)
operation in U. K., review of, 25:36863 (CONF-700653-1)
operation of power, review of capacity and availability factors for, 25:56893 (70-CNA-631)
operations aspects of, 25:60030
performance in the United Kingdom, 22:6054
performance in U.K. of, review of, 23:31136
performance in U.K. of, review of, 23:31135
physics parameters for, 23:19466
pressure vessels for, design parameters and performance of, 25:53900 (A/CONF.49/P-469)
radioactive effluents from, comparison of calculated and measured, 25:53981 (A/CONF.49/P-505)
shielding for, performance of, 25:53981 (A/CONF.49/P-505)
shielding performance of, survey of, 23:13351 (AERE-R-5773(Vol.4), pp 1069-96)
shutdown of, optimum control of xenon dominated, (T), 23:31230
simulator for, description of analog computer for, 22:7921
REACTORS, MARITIME
see also Maritime Gas-Cooled Reactor
see also Maritime Nuclear Steam Generator
see also Maritime Pressurized-Water Reactor
see also Mutsu Reactor
see also Naval Reactors
see also Otto Hahn Reactor
see also Vulcain Maritime Reactor
accident heat-removal in, testing of submerged double-pipe secondary cooling water evaporation system for, 22:42378
accident in 100 MW(t), factors affecting analysis of maximum credible, (T), 22:39846
accidents in, potential hazards from, 25:31644
air conditioning systems for, design and installation of, 25:20816(T) (JPRS-52443)
bibliography on, 25:23380 (AED-C-22-11)
bibliography on, 21:44912 (AED-C-22-08)
bibliography on, 22:48714 (AED-C-22-10)
bibliography on, 24:47926 (RAND-P-4077)
bibliography on ship propulsion using, 22:37507 (AED-C-22-09)
book: Basis of Thermal and Hydraulic Calculations of Marine Nuclear Reactors and Steam Generators, in Russian, 22:44872
book: Constructional Features of Nuclear-Powered Vessels, in Russian, 25:60204
book: Examination of the Control Drive of Maritime Nuclear Reactors, 22:3879
book: Layout and Design of Marine Nuclear Reactors, in Russian, 22:32932
book: Marine and Stationary Liquid Metal Nuclear Power Installations, 23:52319
book: Marine Nuclear Reactors, 23:11322
book: Marine Nuclear Reactors, Theory and Computations, 22:14235
book: Nonstationary Operation of Marine Nuclear Steam Producing Installations, in Russian, 25:3919
book: Production of Marine Reactors and Steam Generators, in Russian, 25:3918
book: Strength of Maritime Nuclear Reactor Vessels, in Russian, 25:1949
book:Biological Shielding of Maritime Reactors, 24:52984(T) (AEC-tr-7097)
catalog of, 22:4303 (EUR-3568)
configuration of cylindrical closed-cycle, description of, 22:46995(P)
configuration of Japan 36 MW(t) pressurized-water, reference design, 22:46994
configuration of pressurized-water, description of optimum economic, 22:46992
configuration of ring-sealed multiple assembly-fueled triple-pass water-cooled and -moderated pressure vessel-contained, description of, 22:42337(P)
construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
construction in Japan of, economics and schedule for, 23:15705
containment structure in Japan, model study for optimum configuration of, 24:2047
containment structures for, description of pipe-connected valve-operated shell and enclosed ship inner bottom, 22:48719(P)
containment system for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
containment system for NERO, final design drawings of, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
containment system for, with pressure venting to ship innerbottom, 23:37680(P)
control element drive mechanism for NERO, design of, 22:6067(R) (EUR-3647)
control elements for NERO, fabrication of uranium oxide (UO_2) and uranium boride, 22:6067(R) (EUR-3647)
control elements for, synthesis model for programming movement of, 25:48324 (EUR-4557)
control of, 21:44914(P)
control rod drive design for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
control rod drive system for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
control rod drive system for NERO, final design drawings of, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
control rod drives for NERO, design parameters of, 24:24900
control rod drives for, reliability testing procedures for, 22:14233(T) (JPRS-43834)
control rods for, performance testing of drives for, 22:3879
control system for, design of hydraulic drive for, 21:46932(P)
control system in Japan, instrumentation requirements of, 24:2046
control systems and instrumentation for NERO, circuit diagrams and final design drawings of, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
control systems and instrumentation for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
coolant pumps development for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
cooling system burnout in simulated, using water coolant, 21:10195
cooling system for NERO, development of emergency, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
cooling system for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
cooling system for NERO, flow diagrams and final design drawings of, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
cooling system for superheating, configuration of hollow tube-surrounding core-enclosed integral upward-coolant-flow, 23:2100(P)
cooling system for, effect of ship motion on two phase flow behavior in, (T), 22:16249
cooling system in Japan, design parameters of primary, 24:2048
cooling system of integral steam cooled, description of once through forced flow, 23:43186(P)
cooling system of Lenin, description of improved mixed-layer ion exchangers for, 22:20826 (ZFK-RN-31, pp 69-76)
cooling systems in Japan, description of auxiliary and emergency, 24:2049
core and internal for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
core design for Belgian Vulcain, 21:38626
core for NERO, final design drawings of, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
core for NERO, thermal design parameters for, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
core lifetime studies for, summary of research on, 22:16356 (KR-116)
description of 24000 ton interchangeable cargo unit merchant vessel, 22:18540
description of helium-cooled uranium oxide (UO_2)-fueled direct Brayton cycle, 22:27451
description of pressurized-water compact closed-loop, 23:11323(P)
description of transport ship, 22:46981(T) (JPRS-46321)
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
description of US, 22:24990
design and development of NERO, 21:14042(R) (EUR-3125.e)
design characteristics of Lenin Ship Reactor, 25:54251 (A/CONF.49/P-722)
design concept for gas-cooled, with direct Brayton cycle, 23:7409
design for container ship with 120,000 shp, 25:44178 (RCN-139)
design for pressurized water, 21:46933(P)
design of, 21:15750
design of, 21:23700(P)
design of 20 MW(e) gas-cooled, with gas turbines, 21:14006
design of Brayton cycle gas-cooled, description of conceptual, 22:35563
design of compact, with pressure vessel immersed in a water shield, 21:21747(P)
design of dual purpose, for propulsion and operation of large ship transported desalination plant, 24:26819(P)
design of high temperature graphite-moderated helium turbine, 21:42796
design of NEREUS, 21:44913 (RCN-76)
design of pressurized water, 21:35614(P)
design of small, 21:46931(P)
design of, classification and review of, 21:34149
design parameters for container ship pressurized-water, description of, 23:11321
design parameters for Japan, 23:23993
design parameters for Japan water-moderated, analysis of, (E/T), 23:9222 (JAERI-1166)
design parameters for Japan, description of, 23:9223
design parameters in Italy, 25:54246 (A/CONF.49/P-178)
design parameters of Mutsu merchant ship, 24:16268
design parameters of submarine, for petroleum transport tankers, 25:28795

design parameters of, textbook on, 22:32932
design requirements of, guides for, 25:31643
design with water shield surrounding pressure vessel, 21:19447(P)
design, construction, and performance of, for icebreakers, 22:6069
development for air-cushion vehicles of, economics for, 24:2045 (N-69-35723)
development for propulsion of conceptual EEL submarine cargo vessel, economics for, 24:4121
development in Euratom countries of, survey of, 23:19475
development in Japan, 22:18659
development in Japan of, review of, 23:31151
development in Netherlands of, requirements for optimum economic, 24:20620
development in U.K, 24:7263
development in U.K. of, 24:46106
development in U.K. of pressurized-water, economics for container ship, 23:15703
development of boiling, effects of operating experience and component modifications on, 23:26105
development of economic pressurized-water, 21:42791
development of NERO, progress during 1966 on, 22:6067(R) (EUR-3647)
development of NERO, summary of activities on, 25:23242
development of NERO, summary of program for, 25:46325 (EUR-4356)
development of Norwegian/Swedish boiling, 21:2864(R) (KR-109)
development of pressurized water, for container ships, 24:36076
development of, advantages and disadvantages of, 25:26058
development of, data summary on, 25:60207
development of, economics for future, 23:19546
development of, outline of international, 22:3878 (TRG-Report-1500)
development of, review of, 25:12836
development of, review of design problems and research projects for, 25:1950
development of, review of economics and legal aspects for, 25:37097
development of, review of worldwide, 24:52763
development of, summary of, 23:26025
development, economics, and use, 21:21745
dynamics analysis of boiling, 21:2864(R) (KR-109)
economic aspects of 40000 to 50000 shp, 21:42794
economics for container ship propulsion, (T), 25:57138
economics for nuclear merchant ship propulsion, 22:39848
economics of, 21:5670
economics of, 21:5671
economics of, 21:34147 (NUS-339)
economics of, 23:52435
economics of ship propulsion using, 21:19446 (NUS-278-A)
economics of ships powered by, comparison with conventional by powered ships, 23:11320
economics of submarine, for petroleum transport tankers, 25:28795
economics of U.S., twenty year forecast of, 23:47290
economics of, bibliography on, 24:11103 (STI/PUB-21/30(Vol.2))
economics of, comparison of conventional ship propulsion to, 25:44177 (NP-18908)
economics of, effects of reliability analysis on, 25:37095 (IRS-T-18(1970), pp 217-21)
emergency and auxiliary systems for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
engineered safeguards for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
evaluation of, 21:23706
feasibility of, 22:10444
fuel cycle costs in, comparison of Phoenix and enriched uranium, 23:2096 (BNWL-851)
fuel cycle economics in, evaluation of basic, 22:14230 (NUS-265-A)
fuel element assembly testing for Lenin icebreaker, 21:10193 (IAE-1181)
fuel elements for NERO, development and testing of, 23:35983 (RCN-97(Vol.3)(Pt.2))
fuel elements for, latch for prevention of vertical movement of, 24:47928(P)
fuel elements in, neutron radiation effects on niobium—zirconium clad uranium oxide (UO$_2$) rods, 22:22830
fuel fabrication for NERO, description of uranium oxide (UO$_2$) with uranium boride (UB$_4$), 22:42338
fuel for, fasteners for securing shipboard, 21:8013(P)
fuel for, feasibility of use of plutonium Phoenix, (T), 22:27459 (BNWL-634, pp 3.1-27)
fuel rod assemblies for water-cooled, model studies for lateral vibration effects on, (E/T), 22:48718
fuels for, reactivity and multiplication calculations for Phoenix, 22:14289 (BNWL-635)
heat exchangers for, design of tubular, 23:40937(P)
heat exchangers for, design requirements of various configuration, 24:18753
indemnification programs for, evaluation of problems and advantages in development of, 22:42335
kinetics of, analog computer simulation of, 25:37093 (CEA-CONF-1750)
loading and maintenance of, land-based facility for, 21:42789
lubrication problems in, review, 21:10178
moderator of, diffusion of lithium-6 from irradiated beryllium-oxide, 21:15667
operating experience of Soviet icebreaker Lenin, 22:10053(T) (JPRS-43550)
operation and performance analysis of Vulcain Reactor, 21:46930
operation efficiency of pressurized-water saturated-steam, 21:42792
operation of, analysis of parameters for optimum economic, 23:26106
operation of, mathematical models for transient, 25:3919
operation of, Netherlands bill on liability for, 25:51219
operations aspects of, guides for, 25:31643
operations of Lenin Ship Reactor, review of, 25:54251 (A/CONF.49/P-722)
performance in Japan, model analysis of wave motion, 23:15701
physics calculations, 21:2864(R) (KR-109)
physics measurements for 70 MW(t) plutonium fueled gas cooled, calculation of optimum economic, 23:37678
physics measurements for NERO, data plots for final design, 23:19545(R) (RCN-97(Vol.2)(Pt.1))
physics measurements for NERO, description of, 22:53399
physics measurements for water-moderated uranium oxide (UO$_2$) fueled, use of KRITO and PUK facilities for, 22:25109
physics parameters for, methods for calculating, 22:14235
power plant for ships using, design of emergency, 21:15749
pressure vessel for water level control in, description of interior convex-bottom, 22:50781(P)
pressure vessel for water-cooled, description universal joint-connected level-maintaining, 23:7410(P)
pressure vessel mount for water-cooled and -moderated, description of multiple curved duct-connected dry and wet well, 22:48717(P)
pressure vessels for, analysis of stresses in, 25:1949
pressure vessels for, description of dumbbell-shaped upright, 22:48716(P)
pressurized development for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
protection from ship accidents, review of procedures for, 25:10295(T) (JPRS-51939)
radiation protection and waste handling for NERO, final design analysis of, 23:19544(R) (RCN-97(Vol.1)(Pt.1))
reliability analysis of, 25:48325 (IRS-T-18(1969), pp 207-11)
research for development in Japan of, description during April 1964 to March 1968, 23:15702
safety criteria for Japan, analysis of, 23:2099
safety factors affecting maximum credible accident in 100 MW(t), (T), 22:39846
safety of, role of Coast Guard in, 21:15748
safety of, standards for, 25:39327
safety systems for, reliability criteria for, 24:13627(T) (JPRS-49698)
service facilities for Japanese, description of port, 22:35564
shield design and analysis for Norwegian/Swedish, 21:2864(R) (KR-109)
shielding analysis for first Japanese, (E/T), 23:13566 (AERE-R-5773(Vol.5), pp 1346-72)
shielding design and economics of, 21:17508
shielding design and economics of, optimum, 21:21746
shielding design for, effect of γ dose rate reduction by ship structures on, (E/T), 23:13565 (AERE-R-5773(Vol.4), pp 989-98)
shielding for γ radiation in, effects of incident angle on leakage in double-bend two-dimensional slit in lead, 22:53398
shielding for Japan, effects of lead and concrete wall junctions on γ, 23:21543
shielding for, analysis of optimum configurations and materials for, 24:43832(T) (CONF-700211-2)
shielding for, design principles and calculational methods for, 24:52984(T) (AEC-tr-7097)
shielding for, development of minimum requirements for, 22:42334(T) (NSJ-tr-105)
shielding for, optimization calculations for, 22:16356 (KR-116)
shielding mockup of Japanese, spatial distribution of gamma dose rate and thermal neutron flux around primary, (E/T), 22:30279
shielding of, using boron-containing concrete, 22:52305(P)
shielding optimization for, iteration procedure for, 23:47288 (CNM-R-2(Vol.2), pp 726-39)
simulation of pressurized-water, using analog computer, 21:13965 (EUR-3111.i)
simulation of, using analog computer and space—time core equations, 21:13966 (EUR-3112.i)
space power plant adaptation for, 21:42788
steam generator development for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
steam generator for NERO, thermodynamic tests on 6 MW scale model of, 23:7408
steam generator operation in, thermal and hydraulic analysis of, 22:44872
steam generators for pressurized water, development of level regulators for, (T), 24:9157 (RT/ING-(69)4)
steam generators for, stability and performance analysis of, 23:26103
superheater development for NERO, 23:45119(R) (RCN-97(Vol.4)(Pt.2))
superheater for NERO, stress measurements on shell of, 23:31218
thermodynamics of, analog computer simulation of, 25:37093 (CEA-CONF-1750)
turbines for, economics of use of gas, 21:34146 (EUR-2757.e, pp 385-)
turbines for, efficiency of gas, 21:34146 (EUR-2757.e, pp 385-)
use in fast containerized cargo ships, 21:26023 (EUR-3285.f)
vibrations in water cooled, effects of design alterations on, 24:43833(T) (CONF-700211-5)

REACTORS, MOLTEN-SALT
see also Molten Salt Breeder Experiment
see also Molten Salt Breeder Reactor
see also Molten Salt Reactor Experiment
bibliographies on foreign and domestic power, 23:17175 (BNWL-936(Vol.1))
blanket melt as coolant in MOSEL, 21:5619 (JUL-362-RG)
boilers for, description of, 25:28746(P)
breeding behavior of MOSEL, 21:5690 (JUL-361-RG)
breeding ratio calculations for, 21:40572 (ORNL-TM-1946)
breeding ratio of MOSEL, 21:5620 (JUL-380-RG)
breeding ratio of MOSEL, 21:5619 (JUL-362-RG)
chemical research and development for breeder, 21:30163 (ORNL-TM-1853)
chemistry of, 21:21918 (ORNL-4076, pp 1-54)
comparison with other reactor types for power production, 21:27719
component design for breeder, 21:30165 (ORNL-TM-1855)
configuration of liquid lead-cooled floating graphite core, 22:39841(P)
control of 1000 MW(e) single fluid breeder, analog computer simulation of, 24:38501 (ORNL-TM-2927)
control systems for 1000 MW(e) single fluid breeder, analog computer simulation of, 23:40340 (ORNL-TM-2489)
coolant and/or heat transfer fluid for breeder-type, properties of molten fluorides as, 23:40622(P)
coolant mixtures for, physical and thermal properties of, 22:44827 (ORNL-TM-2316)
coolants for MOSEL, properties of fused fluoride salt mixtures for, 21:27685 (JUL-422-RG)
coolants for, corrosion of structural materials by, 24:42054(T) (ORNL-tr-2340)
coolants for, corrosion of structural materials by, (E), 24:17199 (JUL-608-RW)
coolants of fused sodium fluoroborate (NaBF$_4$) for, corrosive effects on Hastelloy N of, 22:32828
cooling of MOSEL, lead, 21:5690 (JUL-361-RG)
cooling system for MOSEL, design concepts, 21:23644
core for breeder, with tubular cells for passage of fissile and fertile fuel salts, 25:1858(P)
core for, computer program for calculation of optimum design parameters of, 25:57048 (ORNL-TM-3359)
core materials for breeder, development of, 24:11159
cost analysis for, review of development, operating, and fuel cycle, 25:51126
decay heat generation rate in single-region, 22:47204 (ORNL-4254, pp 241-78)
description of breeder, with multiple graphite fuel cells, 22:46973(P)
description of fast boiling, 21:19396
description of liquid metal-cooled fast burst, 22:25117(P)
description of MOSEL concept of, 21:27719
description of SAWA and WARS concepts of, 21:42772
description of two 1000 MW(t) concepts for, 22:24979(T) (ORNL-tr-1855)
design and economics of, 21:30505 (ORNL-TM-1852)
design and evaluation studies of thermal breeder, summary, 22:24935 (CONF-660524-, pp 41-63)
design concept for pulsed, 24:11248 (CONF-690102-, pp 387-402)
design of plutonium chloride or uranium chloride fueled fast-breeder, 21:23643
design of power, description of economic characteristics and conceptual, 24:18597
design parameters of 300 MW(e) demonstration, 25:60015 (ORNL-4676, pp 21-72)
design parameters of conceptual 1000 MW(e) converter, analysis of optimum economic, 24:47815
design parameters of fast breeder, with boiling coolant, 23:52335(T) (JPRS-48330, pp 188-227)
design studies on breeder, 21:23612(R) (ORNL-4037)
development during March to September 1970, 25:18100(R) (ORNL-4622)
development during September 1969 to March 1970, 24:47808(R) (ORNL-4548)
development during September 1970 through February 1971, 25:60014(R) (ORNL-4676)
development in Japan of, economics for, 25:1855
development in U. S., survey of, 25:10102
development in U.S., review of, 25:48253 (CONF-680989-, pp 27-30)
development of, 21:17555(R) (ORNL-3911)
development of 1000 MW(e) breeder, predicted economic, 23:31149
development of breeder, 21:30162 (ORNL-TM-1851)
development of breeder, history and potential for, 24:11156
development of breeding, reasons for and USAEC role in, 23:28425
development of power, review of, 25:18106
development of, Delft Molten Salt Project design for, 21:43087 (DMSP-G-8)
development of, economic outlook for, 24:29029
development of, March to August 1966, 21:23612(R) (ORNL-4037)
development of, progress report on, 24:18587(R) (ORNL-4449)
development of, review of, 21:19414
development of, review of, 25:48236(T) (ORNL-tr-2508)
development of, review of U.S, 25:18107
development program for, progress during September 1967 to February 1968, 22:48650(R) (ORNL-4254)
economics for 1000 MW(e) breeder, effects of graphite performance on, (T), 23:15602 (ORNL-TM-2136)
economics of, 25:51129
economics of breeder power, 23:33031
economics of maintenance for experimental, 21:30169 (ORNL-TM-1859)
ethane nitration by vapor-phase reaction with nitric acid in, 23:195
fission product behavior in, model for prediction of, 21:23614 (ORNL-4060)
flush salt mixtures for, physical and thermal properties of, 22:44827 (ORNL-TM-2316)
fuel analysis for, methods development, 21:35583(R) (ORNL-4119)
fuel and blanket processing for, status of, 21:30505 (ORNL-TM-1852)
fuel composition for fast, 21:4420(P)
fuel costs and requirements for, 24:18683

fuel cycle analysis for breeder-type, 21:12187
fuel cycle for, 25:51129
fuel cycle for, computer program for calculation of optimum, 25:57048 (ORNL-TM-3359)
fuel cycle for, economics of thorium—uranium-233, (T), 25:20746 (JUL-644-RG)
fuel for breeder, helium bubble mass transfer removal of xenon-135 from, 22:46916 (ORNL-TM-2245)
fuel for, chemical feasibility of plutonium fluoride (PuF_3), 22:53282 (ORNL-TM-2256)
fuel for, chemical feasibility of plutonium trifluoride as, 23:19693 (ORNL-4344, pp 109-99)
fuel for, chemistry of, 24:9277
fuel for, reprocessing of, 24:13998 (ORNL-4400, pp 31-56)
fuel handling for, description of continuous, 21:19415
fuel mixtures for, physical and thermal properties of, 22:44827 (ORNL-TM-2316)
fuel processing for, 22:27863(R) (ORNL-4204)
fuel processing for, pyrochemical methods of, 21:14310
fuel processing for, volatility method for, 21:14310
fuel processing of, development of methods for, 21:45201 (ORNL-4145, pp 95-103)
fuel processing studies on, 21:23612(R) (ORNL-4037)
fuel recycle scheme for breeder, development of, 23:4227
fuel reprocessing for, 21:3156(P)
fuel reprocessing for, 22:12406 (ORNL-4094, pp 61-9)
fuel reprocessing for, 22:14565 (ORNL-4139, pp 48-72)
fuel reprocessing for, 22:27861 (ORNL-4204, pp 60-7)
fuel reprocessing for, 23:19829 (ORNL-4344, pp 291-327)
fuel reprocessing for, by distillation and reductive extraction using liquid bismuth, 24:19050 (ORNL-4365, pp 21-61)
fuel reprocessing for, by vacuum distillation, 23:2379 (ORNL-TM-2213)
fuel reprocessing for, developments in pyrochemical methods for, 23:17543
fuel reprocessing for, distribution coefficients for salt-transport process for, 22:7788(R) (ANL-7382)
fuel reprocessing for, pyrochemical methods for, 22:51063
fuel reprocessing for, research progress on, 22:16484 (ORNL-4075, pp 62-6)
fuel solvents for, evaluation of molten oxides as, 21:45093 (TUBIK-4)
fuel utilization in, 21:38574
fuels for, development and evaluation of analytical methods for, 25:15625 (ORNL-4622, pp 60-118)
fuels for, irradiation testing of, 23:21484 (ORNL-4344, pp 200-10)
fuels for, material balance for, 23:45182 (ORNL-4396, pp 129-209)
graphite performance in one- and two-fluid breeder, effects of fast and intermediate neutrons on, (E/T), 23:15602 (ORNL-TM-2136)
heat exchangers for breeder, computer programs for design of, 25:25974 (ORNL-TM-2815)
heat transfer and power density in MOSEL, 21:27685 (JUL-422-RG)
heat transfer system design for 1000 MW(e), liquid-liquid, 21:40570 (ORNL-TM-1545)
hydrogen chemistry in, 24:36355 (ORNL-4586, pp 50-66)
instrumentation for, 21:30166 (ORNL-TM-1856)
kinetics during fuel circulation, model for, (T), 21:1173 (ORNL-TM-1626)
maintenance of, development of remote welding for, 25:60015 (ORNL-4676, pp 21-72)
maintenance system development for experimental, 21:30169 (ORNL-TM-1859)
materials development for, 21:30164 (ORNL-TM-1854)
materials for use in MOSEL-type, properties evaluation for, 21:46858 (JUL-487-RW)
neutron scattering matrices for MOSEL measurement of, 21:46856 (JUL-419-RG)
operation of breeder, effects of graphite stability and xenon-135 removal on, 23:4266
physics calculations for, 21:40572 (ORNL-TM-1946)
physics calculations for 2 to 3 x 16^{14} n/cm^2 fast flux burst, analysis of, (T), 22:39882 (ORNL-TM-2282)
physics measurements for single-fluid, analysis of improved, 23:4184
plutonium oxide precipitation in, studies of conditions for, 25:34566
protactinium removal from two-fluid, flowsheets for, 23:49895(R) (ORNL-4235)
reactivity changes in WARS and SAWA, 21:27712
safety of breeder-type, 21:30168 (ORNL-TM-1858)
safety studies for, 22:1772(R) (ORNL-TM-1986)
steam generators for, minimization of thermal stresses and salt freezing in, (T), 25:39282 (ORNL-TM-2953)
structural materials for MOSEL, survey of metal-base, 22:23770
systems for, concept for fuel, coolant, and power conversion, 23:11250
thermal shield development for, use of computer program for, 22:2297 (ORNL-TM-2029)
tritium production and removal in, 24:36355 (ORNL-4586, pp 50-66)

Reactors, Naval
see Naval Reactors

REACTORS, ORGANIC-COOLED
see also ARBUS Power Reactor
see also Experimental Organic Cooled Reactor
see also Heavy Water Organic-Cooled Reactor
see also ORGEL Reactor
see also Piqua Power Reactor
see also PRO Reactor
see also Prototype Organic Power Reactor
see also Spanish Reactors (DON)
see also Whiteshell Reactor No. 1
bibliography on foreign and domestic power, 23:19400 (BNWL-936(Vol.2))
biphenyl—polyphenyl system viscosity in, effects of high-boiling residues on, 21:21933
boilers for, summary of operating experience with, 22:32842
characteristics of thorium-fueled ORGEL-type, 22:24937 (CONF-660524-, pp 119-28)
components for, review of corrosion problems in, 25:55394
control of, effects of positive power coefficients on, 22:14174
control rod drive testing for, 21:5631 (RT/ING-(66)4)
control systems for, evaluation of aromatic organoborate compounds for use in, 25:37427
control systems requirements for, 21:34523 (ORNL-4091, pp 136-82)
coolant combustion in, heat and fission product release from, (E/T), 25:51030(R) (NAA-SR-12492)
coolant development and performance for, conference, 21:21803 (STI/DOC-10/70)
coolant development for, 21:27778(P)
coolant filter of graphite for, description of terphenyl, 22:39816(P)
coolant for, comparison of measured and calculated values for thermal neutron diffusion length in Santowax-R, 23:33115
coolant for, description petroleum hydrodealkylation produced liquid hydrocarbon, 22:35524(P)
coolant for, radiation effects on dibenzyltoluene, 21:28872
coolant for, solvent extraction of high boilers from, 23:389(P)
coolant for, titration equipment for determination of water in, 23:29249 (AECL-3159)
coolant for, use of graphite additive for prevention of deposits by liquid, 23:37501(P)
coolant fouling in, mechanisms for, 23:23894 (EUR-4206)
coolant heating in, description of two-stage, 22:32956(P)
coolant leakage to secondary cooling water in, apparatus for simulation of Santowax OM and HB-40, 23:4455 (AECL-3115)
coolant loop for, computer system for calculation of thermal properties of, 23:47687 (AECL-3186)
coolant loss conditions in heavy water moderated ORGEL-type, stress analysis of core during, 25:1907 (EUR-4493)
coolant makeup rates for, (E), 21:10373 (MIT-334-70)
coolant performance in, review of experimental program on terphenyl, 22:44923 (MIT-334-55)
coolant pumps for, description of glandless flywheels for, 25:46161(P)
coolant purification, FIO loop for, 21:21722
coolant radiation stability in, 21:36048
coolant radiolysis in, 21:14029
coolant sampling in, method for determination of dissolved gases by, 25:46340 (EUR-4503)
coolant terphenyl to rainbow trout, toxicity, 22:53490 (AECL-3116)
coolants for, development review of, 21:12261
coolants for, physical properties of Santowax OM and HB-40 as, summary of, 21:10367 (AECL-2644)
coolants for, properties of Santowax-OMP and -OM2 as, 21:21724
coolants for, toxicity to fish from accident release of Santowax OM and HB-40, 25:26005
cooling system for power, description of liquid hydrocarbon coolant for, 22:35524(P)
cooling system loop fouling in, 23:19692 (EUR-4096)
cooling system model for Tokyo University, description of, 21:21672
cooling system of, corrosion inhibitors for magnesium alloy components of, 22:34015(P)
cooling system of, effects of surface boiling on deposition of gas oil decomposition products in, 22:42670
cooling systems for, description of overpressure release valves for, 22:20869(P)
cooling systems of, monitoring system for detection of leaks in, 23:45600(P)
core costs of, codes for calculating, 21:21701
corrosion control in, method of, 21:2834
cost analysis for reference 220 MW(t) desalination, 25:54233 (A/CONF.49/P-177)
design and development of thorium-fueled 1000-MW(e), economics of, 21:5600(R) (BAW-393-8)
design evaluation of heavy water-moderated thorium-fueled, 21:35565(R) (BAW-393-10)
design for low power dual-purpose, description and cost analysis for, 23:21541
design of 10,000 Mwt, 21:40664
design of heavy water-moderated thermal, THREDES computer program for, 23:21448 (AI-CE-Memo-11)
design of heavy-water moderated, with coolant collector compartment below the core, 22:1822(P)
design of ROVI, economics for desalination, 22:1784
design parameters for 300 MW(th) ROVI-type, 22:44858
design parameters for reference 220 MW(t) organic moderated desalination, 25:54233 (A/CONF.49/P-177)
design parameters of organic moderated low temperature desalination, 25:28792
design parameters of ORGEL-type, digital computer programs for, 23:23857 (EUR-4211)
development, 21:21693
development, 21:21704
development in the United States, 21:21703
development program for 1000 MW(e) heavy water-moderated, description of, 22:50741 (WASH-1083)
development program in U. S. of heavy water-moderated 1000 MW(e), 22:30244
economic evaluation of, 21:27742
economics of CANDU-type, 25:54124 (A/CONF.49/P-151)
feasibility analysis of dual-stream power-desalination HWOCR concept, 22:30296
fission product venting system for, 22:16340(P)
fuel assemblies for, description of Zircaloy-clad pellet-type 3, 7, or 19 element, 23:19499(P)
fuel channel failure in heavy water moderated ORGEL-type, thermodynamics effects of, (E), 25:1907 (EUR-4493)
fuel costs and requirements for 10,000 MW(e) heavy-water-moderated, 23:13514
fuel cycle development for heavy-water-moderated, thorium, 21:13948(R) (BAW-393-9)
fuel cycle performance of heavy-water-moderated 1000 MW(e), analysis of economic thorium oxide (ThO_2), (E/T), 22:30247
fuel cycles for heavy water moderated, economics of thorium, 25:54125 (A/CONF.49/P-157)
fuel development and processing for, 21:30503 (ORNL-4109)
fuel element assemblies for, design of, 21:44895(P)
fuel element assembly for, description of heavy water-moderated finned multi-rod, 22:20866(P)
fuel element cladding in, development of SAP for, 21:21718
fuel element design and fabrication for, cylindrical graphite pin, 21:38801(P)
fuel element designs for dual-purpose power-desalination heavy water-moderated, economic evaluation of conceptual, 23:21537 (AI-CE-Memo-59)
fuel element development, SAP clad, 21:21702
fuel element heat transfer in, calculations of, 21:12168
fuel elements for Canadian, use of uranium oxides (UO_2) in, 22:3808 (AECL-2928)
fuel elements for ROVI, design for loading machine for, 24:18670
fuel elements for, CIRO program for development and testing of ceramic, 24:18737
fuel elements of, calculation method for crud formation on, (E/T), 24:18648 (IAE-1833)
fuel elements of, electric connectors for instrumented, 22:2471
fuel elements of, remote handling equipment for, 21:15663 (RT/ING-(66)5)
fuel fabrication costs and evaluation for heavy-water, 21:14113 (ORNL-3970, pp 204-8)
fuel for heavy water, production plant for SAP-coated uranium carbide, 22:13049
fuel for, testing uranium carbide, 23:8356
fuel handling in, cooled by opaque liquids, 21:5655(P)
fuel processing for, 21:45199 (ORNL-4145, pp 29-57)
fuel recycle cost studies for thorium-fueled HWOCR's, 22:23854 (CONF-660524-, pp 157-84)
fuel rods of ORGEL-type power, model studies for parallel flow vibrations in, (E/T), 22:48688
fuel slugs for, surface finishing of, 21:36901 (AI-CE-48)
heat cycles calculations with and without resuperheating, 21:21710
heat exchangers for, design of, 21:21709
heat flux in BORO coolant loop, effects of terphenyl coolant on critical, 21:23627
heat transfer in, bibliography on, 21:21723
instrumentation for, summary of in-core hydraulic and thermodynamic, 22:48662
lattice parameters of, single fuel element method for determination of, (E/T), 24:4160
loading machine for vertical pressure vessel, description of, 22:3860
loading machines for, design of, 21:23650
material buckling in heavy-water-moderated, uranium-233-fueled, (E/T), 21:8101
materials for use in, properties of, 21:11169 (AECL-2640)
neutron absorption in heavy water-moderated natural-uranium, resonance, (E), 22:5818 (RT/FI-(67)13)
neutron flux distributions in ORGEL-type, comparison of THIHET and EQUIPOISE computer programs for, 23:23876 (EUR-4205)
operation economics of dual-purpose desalination and power organic-moderated, 22:12081
performance criteria for use with small desalination plants, 23:49621
performance of ORGEL-type power, PERFOR 2 computer program for analysis of, 23:19463 (EUR-4223)
physics calculations for, use of HWOCR-SAFE code for, 22:32886
physics parameters of, codes for calculating, 21:21701
physics parameters of, physical-thermokinetic program for calculation of, 21:34126
power excursions in natural uranium fueled pressure tube type, model for self-limiting, (T), 25:10281
pressure tubes for heavy water moderated, optimum operating temperature for zirconium alloy, (E/T), 22:18483
pressure tubes for heavy water moderated, reliabiility analysis of SAP, 25:5984 (RISO-214, pp 335-43)
pressure tubes for heavy water moderated, statistical analysis of creep rupture behavior of SAP, (E/T), 24:26765
pressure tubes of, thermal insulation for zirconium alloy, 24:5532(P)
pressure vessel for organic-moderated, for restricted heat transfer, 21:12205(P)
pump sets for, description of high temperature electric motor, 22:44948(P)
reactivity of, effects of positive coolant coefficient of, 22:14174
shutdown of heavy water moderated, techniques for control of transients in, 23:40336
startup of heavy water moderated, techniques for control of transients in, 23:40336
steam cycle studies for, 21:27742
steam generators for, tube-to-sheet welded joints for, 22:226(P)
structural alloys for, method for producing chromium—iron—vanadium—zirconium-base, 23:16474(P)
temperature coefficients of reactivity for uranium oxide (UO_2) fuel assemblies in, measurement of, 22:16144(R) (DPST-68-83-1)
terphenyl coolant analysis for, survey of Canadian practices for, 21:8187 (AECL-2643)

thermohydraulic performance of ORGEL-type, PERFOR I computer program for, 23:15598 (EUR-4193)
use for desalination, applicability of, 22:39872
zirconium hydridation in, reduction by use of vanadium coatings, 22:28818 (BARC-303)

REACTORS, ORGANIC-MODERATED
see also ARBUS Power Reactor
see also Experimental Organic Cooled Reactor
see also Organic Moderated Reactor Experiment
see also Piqua Power Reactors
see also PRO Reactor
see also Prototype Organic Power Reactor
biphenyl—polyphenyl system viscosity in, effects of high-boiling residues on, 21:21933
components for, review of corrosion problems in, 25:55394
control of, 21:5649(P)
control rod drives for, description of pneumatic, 22:37470(P)
coolant development for, 21:27778(P)
core costs of, codes for calculating, 21:21701
cost analysis for reference 220 MW(t) desalination, 25:54233 (A/CONF.49/P-177)
design of, 21:5649(P)
design of, 21:5648(P)
design of ROVI, economics for desalination, 22:1784
design of scintillator-incorporated, for pulsed-neutron experiments, (E/T), 21:8054
design parameters for 300 MW(th) ROVI-type, 22:44858
design parameters for reference 220 MW(t) organic cooled desalination, 25:54233 (A/CONF.49/P-177)
design parameters of organic cooled low temperature desalination, 25:28792
development, 21:21704
development in the United States, 21:21703
fuel element substitution measurements in, description of, 22:50816
fuel elements for ROVI, design for loading machine for, 24:18670
fuel elements for, thermal utilization and therman flux fine structure calculations for cluster-type, 21:38596
gas production by industrial, 22:3853
heat cycles calculations with and without resuperheating, 21:21710
heat exchangers for, design of, 21:21709
instrumentation for, summary of in-core hydraulic and thermodynamic, 22:48662
kinetics of two loosely-coupled-core, analysis of pulsed measurements on, (E/T), 23:2127 (RT/FI-(68)27)
moderator corrosive effects in, inhibitors for magnesium alloy components, 22:34015(P)
moderator development and performance for, conference, 21:21803 (STI/DOC-10/70)
moderator for, solvent extraction of high boilers from, 23:389(P)
moderator for, use of graphite additive for prevention of deposits by liquid, 23:37501(P)
moderator radiation stability in, 21:36048
moderators for, neutron diffusion parameter measurements in benzene, biphenyl, and Dowtherm A, 22:50846
neutron diffusion in, calculations of, 21:21699
neutron diffusion parameters in, measurements of, 21:21698
neutron multiplication factors for, comparison of measured and calculated values for, 22:50815
neutron spectra in, Horowitz operators for, (T), 25:31657
operation economics of dual-purpose desalination and power organic-cooled, 22:12081
physics parameters for, effects of chemically bonded hydrogen on, 22:50819
physics parameters of, codes for calculating, 21:21701
pressure vessel for organic-cooled, for restricted heat transfer, 21:12205(P)
pump sets for, description of high temperature electric motor, 22:44948(P)
reactivity worths for, comparison of measured and calculated, 22:50815
steam generators for, tube-to-sheet welded joints for, 22:226(P)

REACTORS, PEBBLE-BED
see also AVR Reactor
see also Fluidized Beds
see also Pebble Bed Reactor Experiment (ORNL)
bibliography on, 23:9120 (JUL-Bibl.-14)
breeding cycle for thermal thorium, minimum doubling time calculation for, 21:46857 (JUL-474-RG)
conference on problems of, Juelich, Germany, March 6 to 7, 1968, 23:36172 (EUR-4190)
configuration of variable opposing flow coolant channels for fuel arrangement in spherical heterogeneous, description of, 22:48700(P)
control elements for, design of hollow, 24:50251(P)
control elements for, design parameters of core penetrating rod type, 24:47840(P)
control elements for, design parameters of core penetrating rod type, 24:47847(P)
control rod drives for, description of coaxial shaft threaded gear, 25:54067(P)
control rod worths in beryllia-moderated, 21:35537 (AAEC/TM-375)
control rods for, description of helical grooved, 25:54067(P)
control system for power, performance requirements of automatic, 25:31543 (AAEC/E-203)
coolant air flow measurements for, 21:25610 (AAEC/TM-339)
coolant contamination in, 21:14024
coolant discharge valve for, 21:15669
coolant flow behavior in axisymmetric, mathematical model for describing, 22:16171
coolant flow behavior in, effects of motion of fuel elements on, 21:35569 (EUR-3284.d)
coolant flow in randomly packed beds, 21:14024
coolant flow in randomly packed beds for, 22:16753 (CONF-671211-1)
coolant flow in, review of efficiency of, 21:14104 (AAEC/TM-332)
coolant pressure drop in Ordered Bed Fast Reactor, model studies of, 21:30102 (BNL-50016)
coolant velocity measurements for, using air, 21:7958
coolant velocity profile measurements in full-scale core model of, 21:17466 (ORNL-P-1798)
coolant voids in, method for determining variation of local, 21:5638
cooling system heat transfer in, single-spheric mechanisms of, 21:43176
core elements for, system for identification and classification of operating fuel and moderator, 24:4178(P)
core elements in rhombohedral array, heat transfer over surface of spherical, (E/T), 22:10021
core for high temperature gas cooled, temperature distribution and corrosion in, 25:36980 (JUL-725-RG)
core for liquid metal-cooled, description of multiple coolant ducts for concentric cylinder, 23:15606(P)
core for, description of multiple-channel, 23:17191(P)
core lattices for, geometrical factors for regular and rhombohedral, 21:34137
core of, effects of fuel circulation on growth of ordered zones in, 23:37505 (EUR-4190, pp 517-34)
core of, flow parameters for, 23:35400 (EUR-4190, pp 453-62)
core support for, description of downward-coolant-flow permeable refractory material, 23:9122(P)
core vessel for, configuration of spherical particle-fueled multiple acute-angled guide surface containing, 22:42288(P)
cores for, coolant velocity distribution and fuel sphere ordering effects in, (E/T), 25:46240 (EUR-4335)
cores for, heat transfer in models of, (E/T), 25:46254 (EUR-4337)
design and development of, review of, 21:14024
design and economics of carbon dioxide-cooled beryllium oxide-moderated plutonium-thorium fueled, 22:22716
design for 1200 MWe high temperature gas cooled, conceptual, 22:39779 (JUL-519-RG)
design for underground processing of bituminous materials and hydrocarbons, 21:30244(P)
design of, 21:46916(P)
design of 1000 MW(e) uranium carbide (UC) fueled ordered, economics of conceptual, 22:9992 (BNL-50027)
design of 1200 MW(e) high temperature, conceptual, 22:35494
design of high-temperature gas-cooled, 21:15743
design of, core, 21:2856(P)
design parameters of air cooled beryllium oxide moderated ABORIGINE concept, 24:43685 (AAEC/TM-534)
development in Germany of, 23:49546
development in Germany of high temperature gas cooled, review of, 24:35999
development of fast, 21:35701(R) (BNL-50023)
development of high-temperature, problems of, 21:13979 (JUL-382-RG)
development of, status of German program for, 25:5944
dynamics of, DYN computer program for, 23:40334 (EUR-4278)
economics of high temperature, capital and fuel cycle cost factors in, 24:29030
fluidization dynamics in, review of liquid, 22:33084 (AECL-2788)
fuel burnup calculations for continuously refueled, (T), 21:7957
fuel burnup calculations using FRIZLE code, 21:35536 (AAEC/E-173)
fuel burnup in, calculation of, 21:13937 (AAEC/E-160)
fuel burnup in, nondestructive method for measurement of, 24:33639
fuel burnup survey for, 21:25612 (AAEC/TM-350)
fuel cycle economics for high-temperature gas-cooled, 21:45188 (AAEC/E-175)
fuel cycle economics of beryllium oxide—graphite moderated, 24:11138
fuel cycle for 2500 MW(t) high temperature, analysis of multizone core configuration for optimum economic thorium, 25:57060 (JUL-736-RG)
fuel cycle for beryllium oxide—moderated, thorium, 21:1195
fuel cycle management for, calculation of optimum, 24:33310
fuel dynamics in high-temperature, effects of coolant flow on, 22:6047
fuel element cycle managment for 600 MW(e) two zone reflector controlled, analysis of optimum, (T), 24:38544 (JUL-645-RG)
fuel element distribution calculation in, KUGEL program for statistical space, 22:37565
fuel elements for fast breeder, description of liquid metal-cooled tube-and-shell heat exchanger, 22:35490(P)
fuel elements for, computer program for temperature and thermoelastic stress in homogeneous spherical, 23:2029 (AAEC/TM-470)
fuel elements for, fabrication and performance of, 25:6006
fuel elements for, fabrication process for spherical, 22:30403(P)
fuel elements for, impact strength requirements for spherical, (E), 25:46339 (EUR-4360)
fuel elements for, loading and controlling system for, 25:1903
fuel elements for, method for fabrication of spherical, 24:10150(P)
fuel elements for, neutron spectra in, (T), 25:51047 (JUL-746-RG)
fuel elements for, nondestructive determination of mechanical and nuclear properties of, 23:38209 (EUR-4237)
fuel elements for, thermoelastic stress analysis of spherical, 25:51104
fuel elements of high temperature gas cooled power, calculation of statistical temperature distribution in, (E/T), 24:11323
fuel flow in, analysis of core behavior during, (E), 22:30191
fuel for ordered, cladding performance under static loads, 21:30101 (BNL-50010)
fuel for ordered, cladding performance under thermal cycling, 21:30101 (BNL-50010)
fuel for, development and testing beryllium oxide base, 23:8295
fuel handling equipment for, design characteristics of, 25:34381
fuel management for, analysis of optimum, 23:9167
fuel management schemes evaluation for, method based on perturbation theory, 21:25609 (AAEC/E-161)
fuel pellet bed collapse behavior in, with loss of liquid flow, mathematical model for determination of, 23:21877 (AECL-3028)
fuel reprocessing flowsheets for, 21:24823 (AAEC/E-162)
fuel shape changes in, electric equipment for, 21:12263
fuel sphere circulations in, core vessel shaping for improved, 25:54057(P)
fuel sphere configuration changes in, equipment design for detection of, 21:2895 (JUL-357-RG)
fuel sphere velocity measurements in, 21:7893 (ORNL-P-2668)
fuel spheres for, geometric properties of packings of equal, 24:29427 (AAEC/E-202)
fuel spheres for, heat transfer from surfaces of, 22:14669
fuel spheres for, method for forming, 22:52252(P)
fuel spheres in, porosity fluctuations in liquid fluidized beds of, (E/T), 24:13518 (AECL-3029)
fuel temperature and thermoelastic stresses in, axisymmetric heat transfer solution for spherical, (T), 22:32803
fuel unloading device for, description of multiple jets for liquid injecting, 22:37578(P)
fuels for, determination of neutron-physical properties for, 23:4192
fuels for, effects of size and weight on circulation of, 23:33056
fuels in, stress and temperature distributions on shell surface of loose kernel type, (T), 24:50108 (AAEC/TM-535)
heat transfer at wall of, mathematical model to study radial, 22:230 (AAEC/TM-389)
heat transfer in randomly packed beds, 21:14024
heat transfer in, analysis of particle-to-liquid, 23:26437 (AECL-3185)
kinetic behavior of, effect of fuel particle size on, 21:35661 (AAEC/E-167)
loading machine for 300 MW(e), reliability analysis of, 25:6039 (RISO-214, pp 213-46)
loading machine for, description of, 23:4262
loading machine for, interchangeable component unit design for, 25:54296(P)
loading machines for high temperature gas cooled, design and operation of, 24:52940
mass flow distributions for two-zone loaded, calculations of, 21:35569 (EUR-3284.d)
moderator spheres for breeder, fabrication, properties, and irradiation behavior of beryllium oxide (BeO), 23:26128 (JUL-552-RW)
moderators for conceptual 1000 MW(e) high temperature gas cooled, neutron flux and temperature effects on pebbles of beryllium oxide (BeO), 23:11180 (JUL-525-RW-RG)
moderators for, effects on neutron flux of temperature coefficients of, (T), 25:51047 (JUL-746-RG)
multiplication constant for, uncertainties in calculation of effective, (E/T), 24:16171
neutron flux density in, calculation of cavity boundary conditions with deviations from Lambert's law, 21:29851
neutron resonance absorption calculations in, with double heterogeneous fuel element assemblies, (T), 22:35721
neutron spectra in, effects of fuel distribution in fuel elements on, 25:46264 (EUR-4339)
neutron spectra in, effects of heterogeneous structure of coated particle fuels on thermal, (T), 25:28658
operation of, 21:46916(P)
pebble reflector for, erosion behavior of, 21:25610 (AAEC/TM-339)
physics calculations for once through uranium oxide (UO_2) fueled, 25:5972
plutonium buildup in, calculational procedures for determining, 22:46902 (JUL-542-RG)
power excursions in continuously fueled, model for evaluating fast, 23:11258
pressure vessel for 200 MW(e) gas-cooled power design of cylindrical prestressed concrete, 23:11207
reactivity insertions in, analysis of effects of step, 23:11258
stress performance of, description of, 21:25611 (AAEC/TM-344)
temperature distributions in, statistical calculation of, 23:4185
testing of concept for moving settled-bed, 21:35564(R) (APDA-193)
thermal performance of, description of, 21:25611 (AAEC/TM-344)
turbine cycles in, economics of gas, 21:34098 (EUR-2757.e, pp 353-)

Reactors, Pentalene-Moderated
see Reactors, Organic-Moderated

REACTORS, POWER
see also Aguirre Power Reactor, Unit 1
see also Aircraft Reactor Experiment
see also Angra Power Reactor
see also Arkansas Nuclear One Power Reactor
see also Arkansas Nuclear One Power Reactor, Unit 2
see also Army Reactors (PL-2)
see also Army Reactors (PM-1)
see also Army Reactors (PM-2)
see also Army Reactors (PM-3)

see also Army Reactors (SM-2)
see also Atucha Power Reactor
see also AVR Reactor
see also Bailly Power Reactor, Unit 1
see also Barsebaeck Power Reactor, Unit 1
see also Beaver Valley Power Reactor, Unit 1
see also Bell Station Power Reactor
see also Beloyarsk Power Reactor, Unit 1
see also Beloyarsk Power Reactor, Unit 2
see also Berkeley Reactors
see also Beryllium Oxide Reactor Experiment
see also Beznau Power Reactor, Unit 1
see also Biblis Power Reactor
see also Big Rock Point Power Reactor
see also Bilibiu Power Reactor
see also BN-350 Reactor
see also BN-600 Reactor
see also Bodega Bay Power Reactor
see also Bohunice Power Reactor, Unit 1
see also Boiling Reactor Experiments
see also Bolsa Island Power Reactor, Unit 1
see also BOR-60 Reactor
see also Borssele Power Reactor
see also Bradwell Reactors
see also Brittany Power Reactor (EL-4)
see also Browns Ferry Power Reactor, Unit 1
see also Browns Ferry Power Reactor, Unit 2
see also Brunsbuettel Power Reactor
see also Brunswick Power Reactor, Unit 1
see also Brunswick Power Reactor, Unit 2
see also Bugey Reactors (EDF-5)
see also Calder Hall Reactors
see also Calvert Cliffs Power Reactor, Unit 1
see also Calvert Cliffs Power Reactor, Unit 2
see also Candu Reactor
see also Carolinas-Virginia Tube Reactor
see also Chappelcross Reactors
see also Chinon Reactors (EDF-1)
see also Chinon Reactors (EDF-2)
see also Chinon Reactors (EDF-3)
see also Chinshan Power Reactor, Unit 1
see also Chinshan Power Reactor, Unit 2
see also Connecticut Yankee Power Reactor
see also Cooper Power Reactor
see also Crystal River Power Reactor, Unit 3
see also Crystal River Power Reactor, Unit 4
see also Davis-Besse Power Reactor
see also Diablo Canyon Power Reactor, Unit 1
see also Diablo Canyon Power Reactor, Unit 2
see also Dodewaard Power Reactor
see also Doel Power Reactor
see also Donald C. Cook Power Reactor, Unit 1
see also Donald C. Cook Power Reactor, Unit 2
see also Dounreay Fast Reactor
see also Dresden Power Reactor, Unit 1
see also Dresden Power Reactor, Unit 2
see also Dresden Power Reactor, Unit 3
see also Duane Arnold Power Reactor
see also Dungeness A Reactors
see also Dungeness B Reactors
see also Easton Power Reactor
see also Edwin I. Hatch Power Reactor, Unit 1
see also Edwin I. Hatch Power Reactor, Unit 2
see also Elk River Power Reactor
see also Experimental Boiling Water Reactor
see also Experimental Breeder Reactor
see also Experimental Breeder Reactor-II
see also Experimental Gas Cooled Reactor
see also Experimental Organic Cooled Reactor
see also Fast Ceramic Reactor
see also Fermi Fast Breeder Reactor
see also Fermi Power Reactor, Unit 2
see also Fessenheim Power Reactor, Unit 1
see also Forked River Power Reactor, Unit 1
see also Fort Calhoun Power Reactor, Unit 1
see also Fort St. Vrain Power Reactor, Unit 1
see also Fukushima Power Reactor, Unit 1
see also Fukushima Power Reactor, Unit 2
see also Fukushima Power Reactor, Unit 3
see also Garigliano Power Reactor
see also Geesthacht Power Reactor
see also Gentilly Power Reactor
see also GKN Reactor
see also Grosswelzheim Superheat Reactor
see also Gundremmingen Power Reactor
see also H.B. Robinson Power Reactor, Unit 2
see also Halden Boiling Reactor
see also Hallam Power Reactor
see also Hamaoka Power Reactor, Unit 1
see also Hanford Dual-Purpose Reactor
see also Hanford Power Reactor, Unit 2
see also Hanford Production Reactors (N)
see also Hartlepool Power Reactors
see also Heavy Water Organic-Cooled Reactor
see also Heysham Power Reactors
see also High-Temperature Gas-Cooled Reactor Experiment
see also Homogeneous Reactor Experiment
see also Homogeneous Reactor Test
see also Humboldt Bay Power Reactor
see also Hunterston Reactors
see also Hutchinson Island Power Reactor, Unit 1
see also Hutchinson Island Power Reactor, Unit 2
see also Indian Point Power Reactor, Unit 1
see also Indian Point Power Reactor, Unit 2
see also Indian Point Power Reactor, Unit 3
see also James A. Fitzpatrick Power Reactor
see also Japanese Advanced Thermal Reactor
see also Japanese Power Demonstration Reactor
see also Japanese Power Demonstration Reactor (II)
see also Jose Cabrera Power Reactor
see also Joseph M. Farley Power Reactor, Unit 1
see also Joseph M. Farley Power Reactor, Unit 2
see also Kalpakkam Power Reactors
see also Karachi Power Reactor
see also Kashima Power Reactor, Unit 1
see also Kewaunee Power Reactor
see also KNK Power Reactor
see also Kolmsk Power Reactors
see also Kyushu Power Reactor, Unit 1
see also La Crosse Boiling-Water Reactor
see also La Salle County Power Reactor, Unit 1
see also La Salle County Power Reactor, Unit 2
see also Latina Power Reactor
see also Leningrad Power Reactors
see also Limerick Power Reactor, Unit 1
see also Limerick Power Reactor, Unit 2
see also Lingen Power Reactor
see also Liquid Metal Fuel Reactor
see also Los Alamos Molten Plutonium Reactor Experiments
see also Los Alamos Power Reactor Experiments
see also Los Alamos Turret Reactor
see also Loviisa Power Reactor
see also Lucens Reactor
see also Mc Guire Power Reactor, Unit 1
see also Mc Guire Power Reactor, Unit 2
see also Maine Yankee Power Reactor
see also Malibu Power Reactor
see also Marcoule Reactors (G-2)
see also Marcoule Reactors (G-3)
see also Mendocino Power Reactor, Unit 1
see also Mendocino Power Reactor, Unit 2
see also Midland Power Reactor, Unit 1
see also Midland Power Reactor, Unit 2
see also Mihama Power Reactor, Unit 1
see also Mihama Power Reactor, Unit 2
see also Millstone Point Power Reactor, Unit 1
see also Molten Salt Breeder Experiment
see also Molten Salt Breeder Reactor
see also Molten Salt Reactor Experiment
see also Monticello Power Reactor, Unit 1
see also Muehleberg Power Reactor
see also MZFR (Siemens Reactor)
see also Naval Reactors
see also Newbold Island Power Reactor, Unit 1
see also Newbold Island Power Reactor, Unit 2
see also Niederaichbach Power Reactor
see also Nine Mile Point Power Reactor
see also Nord Power Reactor
see also North Anna Power Reactor, Unit 1
see also North Anna Power Reactor, Unit 2
see also North Anna Power Reactor, Unit 3
see also North Anna Power Reactor, Unit 4
see also Novo Voronezh Power Reactor, Unit 1
see also NPD Reactor
see also Nuclear Auxiliary Power Systems
see also NWK Reactor
see also Obninsk Power Reactor
see also Obrigheim Power Reactor (Germany)
see also Oconee Power Reactor, Unit 1
see also Oconee Power Reactor, Unit 2
see also Oldbury Reactors
see also Organic Moderated Reactor Experiment
see also ORGEL Reactor
see also Oskarshamn Power Reactor
see also Oyster Creek Power Reactor, Unit 1
see also Oyster Creek Power Reactor, Unit 2
see also Palisades Power Reactor
see also Peach Bottom Power Reactor, Unit 1
see also Peach Bottom Power Reactor, Unit 2
see also Peach Bottom Power Reactor, Unit 3
see also Pebble Bed Reactor Experiment (ORNL)
see also Philippsburg Power Reactor
see also Pickering Power Reactor, Unit 1
see also Pickering Power Reactor, Unit 2
see also Pilgrim Power Reactor
see also Piqua Power Reactor
see also Pluto Reactors (Tory)
see also Plutonium Recycle Test Reactor
see also Point Beach Power Reactor, Unit 2
see also Prairie Island Power Reactor, Unit 1
see also Prairie Island Power Reactor, Unit 2
see also Pressurized Heavy Water Reactor
see also PRO Reactor
see also Prototype Advanced Thermal Reactor
see also Prototype Fast Reactor
see also Prototype Organic Power Reactor
see also Puerto Rico Power Reactor
see also Quad Cities Power Reactor, Unit 1
see also Quad Cities Power Reactor, Unit 2
see also Rancho Seco Power Reactor
see also RAPP Power Reactor
see also Reactors, AGR-type
see also Reactors, CANDU-type
see also Reactors, Magnox
see also Reactors, Maritime
see also Rheinsberg Power Reactor
see also Robert E. Ginna Power Reactor, Unit 1
see also Rocket Reactors (Kiwi)
see also Saint Laurent-des-eaux Reactor (EDF-4)
see also Saint Laurent-des-Eaux Reactor, Unit 2
see also Salem Power Reactor, Unit 1
see also San Onofre Power Reactor, Unit 2
see also San Onofre Power Reactor, Unit 3
see also Santa Maria de Garona Power Reactor
see also Savannah River Power Reactor Experiment
see also Saxton Power Reactor
see also Seabrook Power Reactor, Unit 1
see also Seala Power Reactor, Unit 1
see also SENA Power Reactor
see also Sequoyah Power Reactor, Unit 1
see also Sequoyah Power Reactor, Unit 2
see also Shearon Harris Power Reactor, Unit 1
see also Shearon Harris Power Reactor, Unit 2
see also Shearon Harris Power Reactor, Unit 3
see also Shearon Harris Power Reactor, Unit 4
see also Shippingport Pressurized Water Reactor
see also Shoreham Power Reactor, Unit 1
see also Sioux Falls Power Reactor
see also Sizewell Reactors
see also Sodium Reactor Experiment
see also Space Power Unit Reactor
see also Stade Power Reactor
see also Steam-Generating Heavy-Water-Moderated Reactor
see also Submarine Intermediate Reactor
see also Submarine Reactors (S1C)
see also Supercritical Once-Thru Tube Reactor
see also Surfside Reactor
see also Surry Power Reactor, Unit 2
see also Susquehanna Power Reactor, Unit 1
see also Susquehanna Power Reactor, Unit 2
see also Swedish Reactors (R-3)
see also Swedish Reactors (R-4)
see also Systems for Nuclear Auxiliary Power (SNAP)
see also Takahama Power Reactor, Unit 1
see also Tarapur Power Reactor
see also TARGET Reactor
see also TES-3 Reactor
see also Three Mile Island Power Reactor, Unit 1
see also Tihange Power Reactor
see also Tohoku Power Reactor, Unit 1
see also Tokai-Mura Power Reactor
see also Trawsfynydd Reactors
see also Trino Power Reactor
see also Trojan Power Reactor, Unit 1
see also Tsuruga Power Reactor
see also Vaertan Power Reactor
see also VAK Reactor
see also Vallecitos Boiling Water Reactor
see also Vallecitos Superheat Reactor
see also Vandellos Power Reactor
see also Vermont Yankee Power Reactor
see also Virgil C. Summer Power Reactor, Unit 1
see also VK-50 Reactor
see also Vulcain Maritime Reactor
see also Waterford Power Reactor, Unit 3
see also Waterford Power Reactor, Unit 4
see also Watts Bar Power Reactor, Unit 1
see also Watts Bar Power Reactor, Unit 2
see also Weisweiler Power Reactor
see also William H. Zimmer Power Reactor, Unit 1
see also William H. Zimmer Power Reactor, Unit 2
see also Windscale Advanced Gas Cooled Reactor
see also Wuergassen Power Reactor
see also Wylfa Reactors
see also Yankee Power Reactor
see also Zion Power Reactor, Unit 1
see also Zion Power Reactor, Unit 2
accident analysis for, cause-consequence diagram method for quantitative, 25:39276 (RISO-M-1374)
accident analysis for, cause-consequence diagram method for quantitative, 25:39276 (RISO-M-1374)
accident analysis for, maximum credible, 25:48221 (IRS-T-18(1969), pp 185-9)
accident analysis for, review of maximum credible, 25:48216 (IRS-T-18(1969), pp 23-38)
accident analysis for, summary on, 24:20936(R) (LMEC-70-1)
accident analysis using SNAP 10A statistical technique for, 21:34075 (AI-65-Memo-212)
accident calculations for 1000 MW(e), computer code for, 22:9988(R) (ANL-7391)
accident conditions for, information review of iodine-131 and methyl iodide behavior under, 23:26057 (UJV-2114-Ch)
accident evaluation for large boiling water, analytical methods for hypothetical, 23:47095 (APED-5756)
accident evaluation for large, methods for quantitative, 21:30151 (KFK-530)
accident probability for, methods for assessment of, 24:7899
accidents at British, emergency action plans for, 24:43684
accidents in 1000 MW(e) pressurized water, comparison of economic and biological risk for design basis, 25:60003
accidents in boiling, assumptions for evaluation of radiation hazards from steam line break, 25:28744
accidents in fast breeder, Bethe—Tait model analysis of severe, 24:29037 (KFK-1057)
accidents in fast, Bethe—Tait model analysis of severe, 24:47879(T) (EURFNR-748)
accidents in high temperature gas cooled, response dynamics for, 25:41493
accidents in high temperature gas cooled, review of U.S. safety programs on, 25:60130
accidents in large fast, theoretical analysis of maximum, 21:7989
accidents in pressurized water, energy release for rod ejection, 25:6081
accidents in prototype, risk criterion analysis for, (T), 24:22371
accidents in water cooled, review of U.S. safety programs on, 25:60131
accidents in water-cooled, release of hypoiodous acid in, 25:20963 (CONF-700816-(Vol.2), pp 467-81)
accidents in, accuracy of point kinetics method for analysis of control rod ejection, 24:11305
accidents in, analysis of maximum radiation hazards for, 25:31530
accidents in, analysis of radiation hazards for, 25:31622
accidents in, analysis of reactivity in, 21:15727
accidents in, behavior, formation, and removal of methyl iodide vapors from containment vessel following, 24:16758
accidents in, computer program calculations for secondary events in fault tree analysis of, 25:60134
accidents in, descriptions of medical units for handling contaminated persons following, 23:9110
accidents in, factors affecting probabilistic distribution of inhalation dose following hypothetical, 24:7036
accidents in, fault tree analysis of, 25:60133
accidents in, Mean Annual Severity quantitative analysis of, (T), 23:33069
accidents in, role of Ministry of the Interior in Italy following, 24:22367
accidents involving, radiation protection planning for, 24:7891

accidents, program for handling medical problems following, in United Kingdom, 24:7908
agro-industrial complex using, desalting seawater by electrodialysis in, 23:28944 (CONF-680810-, pp 269-98)
agro-industrial complex using, economics of chemical and metallurgical industries in, 23:31249 (CONF-680810-, pp 29-43)
agro-industrial complex using, economics of recovery of chemicals from seawater in, 23:28943 (CONF-680810-, pp 249-68)
agro-industrial complex using, economics of sewage water processing for reuse in, 23:31251 (CONF-680810-, pp 239-47)
agro-industrial complexes using, economics of actylene production in, 23:28776 (CONF-680810-, pp 83-92)
agro-industrial complexes using, economics of aluminum production in, 23:29978 (CONF-680810-, pp 137-61)
agro-industrial complexes using, economics of ammonia production in, 23:28779 (CONF-680810-, pp 123-34)
agro-industrial complexes using, economics of chlorine-caustic industry in, 23:28775 (CONF-680810-, pp 67-81)
agro-industrial complexes using, economics of hydrogen and oxygen production in, 23:28778 (CONF-680810-, pp 107-22)
agro-industrial complexes using, economics of magnesium production in, 23:29979 (CONF-680810-, pp 163-80)
agro-industrial complexes using, economics of nitrogen fixation in, 23:28777 (CONF-680810-, pp 93-105)
agro-industrial complexes using, economics of paper production in, 23:28780 (CONF-680810-, pp 205-18)
agro-industrial complexes using, economics of phosphorus production in, 23:28774 (CONF-680810-, pp 47-66)
agro-industrial complexes using, evaluation of, 24:265(R) (ORNL-4422)
agro-industrial complexes using, seawater desalting economics in, 23:28945 (CONF-680810-, pp 299-312)
agro-industrial complexes using, space heating in urban environments by, 23:31250 (CONF-680810-, pp 219-37)
air cleaning systems for, research on, 22:28037(R) (NYO-841-12)
ammonia production at site of, 21:35934
analytical chemistry for CIRENE, 24:2091 (CISE-R-135)
analytical chemistry for CIRENE, 24:2092 (CISE-R-151)
Argonne National Laboratory Reactor Engineering Division Report, July 1, 1965—June 30, 1966, 21:40525(R) (ANL-7290)
atmosphere control device for, design of, 21:4397(P)
auxiliaries for, safety requirements for, 22:42222
auxiliary and emergency systems of, safety requirements in Canada of, 25:41266 (EUR-4517, pp 57-84)
auxiliary power supplies for, 25:41269 (EUR-4517, pp 201-20)
auxiliary power supplies for, design standards for diesel generator set, 25:28705
auxiliary power supply for simulated 600 MW(e), reliability analysis of emergency, (T), 23:2043
auxiliary power supply system of, operating requirements of quick acting switch-over equipment for, 25:41274 (EUR-4517, pp 367-77)
auxiliary power supply systems for, design standards for redundant, 25:28704
auxiliary power systems for, performance requirements for standby diesel, 23:31173
auxiliary systems for, reference preliminary safety analysis report for, 25:54157 (DOCKET-RESARA-4)
availability and lifetime of, evaluation of, 23:21503
availability of world, statistical tabulation of, 22:39788 (TUBIK-7)
bibliographies on foreign and domestic, 23:17175 (BNWL-936(Vol.1))
bibliography on advanced and high-temperature gas-cooled, 23:9120 (JUL-Bibl.-14)
bibliography on designs for foreign and domestic, 22:27400 (BNWL-326(Rev.))
bibliography on foreign and domestic, 23:19400 (BNWL-936(Vol.2))
bibliography on heavy water moderated, 24:22239 (STI/PUB-21/37)
bibliography on light water, 22:44841 (WASH-1082)
bibliography on pressurized water, 24:47688 (NEIC-RR-39)
blanket management scheme for fast breeder, development of optimum, 23:28500
blowdown analysis in pressurized-water, simulation of double-ended pipe rupture for, (E/T), 23:15665
blowdown pressure transients for pressurized water, comparison of LOFT-quarter-scale experimental and WHAM-calculated, 23:37366 (CONF-690609-8)
blowers for conceptual 1000 MW(e) helium cooled, design parameters of helium, 24:4026(R) (GA-9660)
blowers for gas-cooled, design characteristics of, 23:28406
blowers for high temperature gas cooled, development of steam turbine driven helium, 24:46039
blowers for steam-cooled fast breeder, design criteria for optimum steam, 23:17197
boiler dynamics for two loop, effects of power transients on, (T), 24:33244
boiler dynamics of pressure-tube, heavy-water-moderated, (T), 22:6048
boiler for integral, design parameters for optimum economic annular shaped, 23:43110(P)
boiler for superheating fast breeder, performance of spray type, 23:28480
boiler for, design of liquid metal, 21:19828(P)
boilers for 1000 MW(e) reference design high temperature gas cooled, design parameters of, 24:38490 (DP-Report-135(Pt.2))
boilers for fast breeder, development in Japan of liquid metal heated, 25:18133
boilers for gas cooled, development in U.K. of, 24:28877
boilers for gas cooled, development of, 25:3900
boilers for gas-cooled, with horizontal coolant flow through steam generator pipes, 23:1997(P)
boilers for high temperature gas cooled, computer calculations for optimum design parameters of, 25:1916
boilers for high temperature gas cooled, design parameters for, 23:37606
boilers for integrated 600 MW(e) gas cooled, effects of engineering and economic factors on design of, 23:28481
boilers for integrated gas cooled, effects of configuration on design parameters of, 23:28478
boilers for liquid sodium cooled fast breeder, design and construction of high power test loop for, 24:52954
boilers for liquid sodium cooled, maintenance requirements and economics for, 24:52900
boilers for, analysis of hydrodynamics for forced circulation, (T), 23:26044
boilers for, analysis of parameters for, 22:32833
boilers for, characteristics of once-through, 24:44161(T) (CONF-700211-4)
boilers for, description of 400 MW vertical U-tube, 22:32836
boilers for, description of assembly-line production of standardized, 23:23844
boilers for, description of integrated, 25:34396(P)
boilers for, description of multiple vertical rows of straight suspended heat units in, 22:48677(P)
boilers for, design characteristics of, 25:3898
boilers for, design parameters of, 25:28748
boilers for, development of, 24:29010
boilers for, flow diagrams for fossil fuel fired dual circuit superheat, 24:20596(P)
boilers for, reliability analysis of, 25:5982 (RISO-214, pp 301-22)
boilers for, use of hydraulic impedance for stability analysis of, (E/T), 24:7104
bolting materials design criteria for high-pressure high-temperature closures in, recommendations for codification of, 22:12034 (NYO-3660-1)
book: Biological Protection of Portable Reactor Installations, 24:18754
book: Collection of Works on Utilization of Nuclear Power Plants, Skoda, Plzen, 22:1824
book: Euratom Economic Handbook, 22:39766 (EUR-3079(Rev.))
book: Fast Reactor Technology: Plant Design, 21:17506
book: Fundamentals of Reactor Thermohydraulics, in Italian, 24:18635 (RT/ING-(69)18)
book: Introduction to the Neutron Kinetics of Nuclear Power Reactors, 24:26830
book: Marine and Stationary Liquid Metal Nuclear Power Installations, 23:52319
book: Nuclear Engineering Volume III, in French, 21:19432
book: Nuclear Power Plant Design, 23:9128
book: Power Stations of Europe, Volume 1, Federal Republic of Germany, 23:23842
book: Power Stations of Europe, Volume 2, Austria, 23:23845
book: Reactivity Coefficients in Large Fast Power Reactors, 24:38496
book: Water Coolant Technology of Power Reactors, 24:11153
Brazilian commission on, organization and function of, 23:4179
breeding characteristics of high-temperature graphite-moderated thorium spherical pile-type, GAPS computer program calculations for optimum, 23:2009(T) (N-68-30369)
brine heater leakage control in dual purpose desalination plants, review of, 23:28595
buildings and facilities for CANDU-Type, design economics of, 22:48710
buildings and facilities of, effects of tornado winds on, 24:31033
buildings and systems for, response spectrum method for calculating earthquake effects on, 23:37436
buildings and systems of, technique for calculation of response spectrum of, 23:34911 (GA-9232)
buildings for 1000 MW(e) gas cooled, construction methods and economics of reactor, 24:16122 (GA-9400(Vol.3))
buildings for 1000 MW(e) high temperature gas cooled, layout designs for, 24:52852 (GA-9400(Vol.1))
buildings for, probabilistic evaluation of seismic risk for, 24:7023
buildings of, effects of seismic stress loading on movement in foundations of, (E/T), 24:5503 (TID-25271)
cables for, procedures for installation of, 24:13539
calorimeters in Czechoslovakia for, design parameters for various types of, 23:24475
cavitation damage in liquid-metal-cooled, 21:36792
characteristics of fast breeder with cylindrical and annular active zones, 21:2880
characteristics of thorium-fueled ORGEL-type, 22:24937 (CONF-660524-, pp 119-28)
characteristics of underwater, description of general, 22:48715 (AERE-R-5500(Vol.2), pp 498-511)
circuit breaker supervision procedures and equipment for, safeguard requirements for, 23:15560
cobalt-60 production in commercial, evaluation of economic feasibility of, 23:7384
component design for, conservatism of earthquake resistance criteria in, 23:33064 (DUN-SA-83)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
component testing for, operation and performance improvement by, 21:42783
components and systems for, conference on development of, 24:45838
components and systems for, mathematical model for determination of failure probability of mechanically and thermally loaded, 23:40377(T) (BNWL-tr-29)
components and systems for, methods for evaluating effects of losses and reliability of, 24:20580 (NP-18160)
components and systems for, procedures and requirements for, 24:7041
components for conceptual 500 MW(e) liquid sodium-cooled fast breeder, 23:19465 (NP-17784)
components for fast breeder, design requirements in Japan for, 25:18113
components for German, development and testing of, 24:47812
components for sodium-cooled fast breeder, design of mechanical, 22:8269
components for, Argentina industrial capacity for production of electromechanical, 22:3837 (NP-16984)
components for, economics and importance of nondestructive testing of, 25:29289
components for, market analysis for support industries of, 23:19441 (NYO-3853-1)
components for, precision, tolerances, and standards for fabrication of, 23:33291 (CONF-680625-4)
components of, design and fabrication requirements in U.K. for, 23:34945 (CONF-680625-8)
components of, fabrication facilities in Spain for, 25:10103
compressor of gas cooled, design parameters of nitrogen pressurized labyrinth gland seal for turbo, 23:47144(P)
concrete shielding for Czechoslovakian, use of ultrasonic technique for testing homogeneity of, 21:41170
condensers for seawater-cooled, corrosion mechanisms of, 22:47661 (CONF-671007-6)
conference on fast, Obninsk, USSR, 1967, 23:52305(T) (JPRS-48330)
conference on fast, Obninsk, USSR, 1967, 23:52451(T) (JPRS-48331)
conference on, abstracts for papers of 1968 ANS student, 23:52303 (CONF-680328-(Absts.))
configuration of 500 MW(e) thorium-fueled CIRENE-type, calculation of optimum economic, 22:44835 (RT/FI-(66)42-bis)
configuration of Austria 300 to 400 MW(e), conceptual design information for, 22:48708
configuration of dual-purpose 150 Mgd desalination and 1500 MW(e), evaluation of Southern California optimum, 22:50769
configuration of high-temperature helium-cooled, description of optimum conceptual, 23:2020 (ORNL-TM-2297)
configuration of multi-core, description of pressure vessel-contained, 23:4178(P)
configuration of natural convection water-cooled and -moderated self-regulating non-boiling low pressure multi-zone thermoelectric, description of, 22:39870(P)
configuration of pressurized-water, review of economic and operational advantages in, 22:48692
configuration of prestressed concrete-enclosed and -shielded gas-cooled, with integral loading device and heat exchanger, 22:39844(P)
construction and design of, 21:15677
construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
construction and fabrication of, development of standards and codes for, 22:44852
construction and operation costs for light water, tabular summary as of March 1, 1967, 22:44841 (WASH-1082)
construction and operation of, cost data for, 23:25999 (NUS-531)
construction and operation of, development of guidelines and standards for, 22:22722
construction and operation of, role of quality assurance in safe and economical, 23:28379
construction and startup of U. S., analysis of delays in 1968 to 1977 schedule for, 23:19460
construction in Argentina, technical and economic feasibility of, 23:13424
construction in England and Wales, selection requirements for future, 23:13430
construction in Germany of, authorization procedures proposals for, 25:20689
construction in Germany, review of, 23:47174
construction in Germany, schedules for, 24:24702
construction in Germany, status of, 25:25861
construction in Germany, status of, 25:25860
construction in Germany, status of, 24:24703
construction in India, review of, 23:28440
construction in Japan of, development of technology for, 25:18056
construction in Japan, review of, 24:24707
construction in Netherlands of, role of industry in, 24:5512
construction in U. S. and Western Europe, predictions to 1980 of, 22:27439
construction in U.K. of, description of present and planned, 23:15578
construction in U.S. of, economics for, 24:24721
construction in U.S., review of legal actions for, 24:50055
construction in U.S., safety aspects of, 24:50050
construction in Yugoslavia, type and size selection factors for proposed, 23:21449 (NIJS-P-229)
construction of, 25:28531
construction of boiling and pressurized water, problems of, 23:47149
construction of dual-purpose power and desalination, effects on economic development in southeast Spain of, 23:49618
construction of dual-purpose power-desalting, in Middle East, Senate hearings on, 22:42351
construction of European, costs and companies for, 23:1995
construction of fast, in United Kingdom, 25:57012
construction of first Dutch, 22:32804
construction of gas cooled, review of, 24:35957 (TRG-Report-1924)
construction of gas-cooled graphite-moderated, standards for steel pressure components in, 22:30183

construction of German, status of, 25:20568
construction of heavy water-moderated, method for fabrication of uniform parts for, 22:18472
construction of large pressurized water, development of technology for, 25:18116
construction of steel structures for, capability of Swiss industry for, 22:37456
construction of U.S.A., description of planned, 22:53298
construction of water cooled, regression analysis using least squares method of cost data for, 24:16091
construction of Yugoslavian, heat and mass transfer research for, 22:7821(T) (AD-821854)
construction of, cost analysis for, 25:57059 (70-CNA-628)
construction of, description of USAEC inspection program for quality assurance during, 23:37439
construction of, determination of optimum schedule for national, 24:38401 (CEA-R-4019)
construction of, development of electrical and electronic equipment standards for, 24:45850
construction of, development of U. S. AEC regulatory standards for, 24:45851
construction of, economic and safety aspects of nondestructive testing in, 25:44136 (CONF-700224-, Paper 1)
construction of, industry development of standards programs for, 24:45852
construction of, instructions and procedures for, 24:33177
construction of, optimum sequencing of, 23:28371
construction of, program in Canada for foreign country markets, 25:28718
construction of, quality assurance program for, 24:45844
construction of, quality assurance program requirements for, 24:38448 (CONF-700317, Paper 16)
construction of, quality assurance program standards for, 24:45843
construction of, review of world-wide, 23:26015
construction of, U. S. AEC standards program for, 24:45849
construction of, use of concrete in, 22:48665
construction of, utility quality assurance aspects of, 24:45842
construction planning for, use of advanced dynamic programming computational procedures in, 24:18589 (TID-25349)
construction program for northwestern USA, description of, 22:14207
containment and siting for, summary of third IAEA symposium on, 22:20858
containment and siting of, conference on, 22:18423 (STI/PUB-154)
containment buildings for Yugoslavia, comparison of three types of, 22:48666
containment buildings for, evaluation of protective coatings for, 22:42191 (IN-1169)
containment buildings for, spray cooling of, 22:8257 (ORNL-TM-2002)
containment filter system efficiency under accident conditions, 21:19383 (ORNL-TM-1707)
containment for large, feasibility of underwater caisson, 21:38511
containment for off-shore siting of water-cooled, description of underwater caisson for, 21:25630(R) (ORNL-4071)
containment for, continuous leak monitoring of, 25:51017
containment for, design of offshore underwater caisson for, 21:34115 (ORNL-4073)
containment heat removal system pumps for, design standards for net positive suction head for, 25:28701
containment in underwater caissons, feasibility and advantages of, 22:30221
containment of coolant loss accident in water-cooled, description of MACACO analog program and PREST digital computer program for analysis of, 22:39896 (EUR-3927)
containment structure for, ambient vibration survey of dynamics characteristics of, 25:8105 (IDO-ES-616)
containment structures for 600 MW(e) boiling water, design and performance of prestressed concrete, 25:31551 (EUR-4531, pp 615-45)
containment structures for heavy-water gas-cooled, analyses of types of, 22:18449
containment structures for pressurized water, design modifications of pressure suppressing single and double shell, 23:40375(P)
containment structures for pressurized-water 800 MW(e), analysis of U.S.A. design requirements for optimum prestressed concrete, 22:53317
containment structures for U. S., standards for steel, 25:25952
containment structures for U.S., construction of concrete, 22:37472
containment structures for water cooled, design and construction practices and standards for prestressed and reinforced concrete, 23:47137 (TID-25176)
containment structures for water cooled, development of steel and composite steel—concrete, 24:46029
containment structures for water cooled, recommended allowable shear stresses for resisting earthquake forces in reinforced concrete, 24:11216 (SWND-5)
containment structures for water-cooled, missile generation and protection criteria in design of, 22:50739 (ORNL-NSIC-22)
containment structures for, advantages and economics of using heated walls in prestressed concrete, 23:28533
containment structures for, construction and performance of prestressed concrete, 25:31552 (EUR-4531, pp 647-89)
containment structures for, design and construction of, 24:52856
containment structures for, design characteristics of earthquake resistant floating, 25:60091(P)
containment structures for, design criteria for, 22:3946
containment structures for, design standards for instrument line penetrations in primary, 25:28678
containment structures for, electrical penetration assemblies standards for, 25:51109
containment structures for, fabrication, construction, and testing of, 25:51061
containment structures for, prestressing systems for primary and secondary concrete, 23:21432
containment structures for, procedures for fabrication and testing of steel, 25:20715
containment structures for, response during steady state vibration testing of, 23:4280
containment structures for, safety aspects and design and construction problems with prestressed concrete, 23:28532
containment structures for, stress analysis of aircraft crash impact forces on prestressed or reinforced concrete, 23:21431
containment structures in Canada, construction of air tight concrete, 24:5513
containment system for boiling water, description of fission product, 22:30203
containment system for boiling, performance during coolant loss accident of pressure suppression, 25:54118 (NEDO-10320)
containment system for pressure tube, description of equalizing-pressure gas release for, 22:3964(P)
containment system for pressurized water, development of borated ice condenser for, 24:22375
containment system for, review of methods for control of radioactivity spread following hypothetical failure of, 22:46914 (ORNL-NSIC-27)
containment system of heavy water moderated boiling, design parameters for pressure suppression, 24:20586
containment system of, safety requirements in Canada of, 25:41266 (EUR-4517, pp 57-84)
containment systems coatings for, criteria for performance of, 22:30121(R) (BMI-X-10229)
containment systems for boiling water, analytical modeling methods for coolant loss accident induced transient in pressure suppression, 25:57057 (NEDO-10320(Suppl.1))
containment systems for boiling-water, effect on site selection of, 23:15564
containment systems for British, description of, 22:18458
containment systems for French, program for development of, 22:18456
containment systems for light water cooled, evaluation of testing of, 22:46913 (ORNL-NSIC-26)
containment systems for light water, evaluation of missile generation and protection in, 23:33073
containment systems for water cooled, design standards for gas control methods during coolant loss accidents in, 25:28702
containment systems for water cooled, evaluation of leakage rate testing and reporting procedures for, 23:33074
containment systems for, comparison of design characteristics of, 24:11219
containment systems for, comparison of reactive atmosphere with inert cover gas for pressure suppression in, 23:52362 (APED-5654)
containment systems for, description of multibarrier concept for, 24:18689
containment systems for, description of program and test facility for evaluating, 23:52392
containment systems for, detailed analysis of earthquake resistant designs for, 22:37440 (HN-192)
containment systems for, evaluation of effects of metal—water reactions under coolant loss accident conditions on, 23:47220 (APED-5454)
containment systems for, evaluation of problems in construction of, 22:22719
containment systems for, evaluation of subatmospheric-type, 22:32864
containment systems for, problems and requirements for standardization of, 24:18607
containment systems for, systems approach to design of, 22:18440
containment vessel for mobile, with pressure suppression chambers, 23:37679(P)
containment vessel standards for, safety design of steel, 21:23669
containment vessels for 1000 MW(e) gas cooled, construction methods and economics of, 24:16122 (GA-9400(Vol.3))
containment vessels for Europe, fabrication techniques and requirements for, 23:2044
containment vessels for mobile, impact testing of spherical model, 25:23383 (N-71-10987)
containment vessels for, criteria for leakage tests on, 25:5938
containment vessels for, design and testing of prestressed concrete, 21:34105 (GA-7150)
containment vessels for, design of pressure safety equipment for, 21:46924(P)
containment vessels for, effects of post-accident atmospheres on leakage rates of, (E), 25:23307 (BNWL-1475)
containment vessels for, effects of soil on dynamic behavior of, 23:11116 (HN-189(Rev.))
containment vessels for, model for calculating pressure differentials across, 22:18446
contamination from, effects on environment of radioactive discharges of, 21:46872(T) (ORNL-tr-1773)
control analysis for Terrestrial Low Power Reactor concept, 22:22858 (ORNL-4219, pp 87-109)
control element worth calculations for water-moderated, use of effective boundary conditions for boron carbide (B_4C) cluster arranged cylindrical, (E/T), 23:23879
control elements for 300 MW(e) oxide fueled fast, calculation of antishadowing and shadowing effects on reactivity worth of, 23:37471
control elements for fast oxide and ceramic, methods for design of, 23:43119
control elements for gas-cooled heavy water-moderated, reactivity worth calculations for vertical movement of horizontal grid, (T), 23:26032 (ZJE-42)
control elements for pressurized water, design parameters of independent two position, 24:47843(P)
control elements for vertical fuel element configuration, effects on reactivity of horizontal, (T), 22:1827
control elements for, description of activation sequence and combinations for independent spaced, 23:45146(P)
control elements for, design of closed tube, 21:40649(P)
control elements for, malfunctions during Aug. to Sept. 1969 of, 24:13613
control elements of, availability and cost of boron-10 for, 25:5975
control elements of, errors in rod drop evaluation of reactivity worth for, (T), 23:49658(T) (ORNL-tr-2221)
control in Canada of, use of digital computers for, 23:40310
control in France of, use of digital computers for, 23:40307
control in France of, use of digital computers for, 23:40306
control in Germany of use of digital computers for, 23:40309
control in Japan of, use of digital computers for, 23:40344
control instrumentation for, analysis of boil-safe design requirements for, 22:53319
control instrumentation for, reliability analysis of, 22:53320
control of 1000 MW(e) single fluid molten salt breeder, analog computer simulation of, 24:38501 (ORNL-TM-2927)
control of 300 MW(e) dual-purpose power-desalination, dynamic response model analysis of, (T), 22:22758
control of 300 to 500 MW(e) boiling, technical aspects of, 25:28721
control of boiling water, system partitioning approach for transient digital, (T), 24:46027
control of boiling, effects of steady-state and transient heat flux on transient boiling burnout, 23:19478
control of boiling, prompt load characteristics by extraction flow, (E/T), 23:49556
control of compact rocket, methods for, 22:6088
control of coupled, state-variable feedback means of, 21:17458 (LA-DC-8352)
control of distributed parameter, model for optimal, 24:47835
control of high performance, use of parallel plate ionization chamber for, 21:8621
control of liquid sodium cooled fast, use of hybrid computer analysis of cooling system dynamics for, 23:49548(T) (ANL-Trans-771)
control of thermionic, use of state variable feedback in, (T), 24:31119
control of UK, use of digital computers for, 23:40308
control of xenon instabilities in, 21:17474(R) (WCAP-3680-1)
control of, computing methods in optimization of, 24:31053
control of, design for system for, 21:23673(P)
control of, digital regulation of multivariable state vector model for, (T), 24:33283
control of, flow-rate variation through superheating region for, 21:15799(P)
control of, method for transient digital, 22:18481
control of, method of, 21:2859(P)
control of, model for optimal, 24:31054
control of, performance of on-line digital computer systems for, 23:40305
control of, principles of, (T), 23:52284
control of, review of automation in, 25:60048
control of, use of buoyant reflector and fuel assemblies for, 21:44899(P)
control of, use of interacting small computers for, 25:48243 (CEA-CONF-1773)
control of, use of noise analysis techniques for, (E), 24:47821 (CONF-680980-, pp 87-101)
control of, use of noise measurements for continuous, 22:3909
control of, uses of on-line computers for optimum, 25:46244 (KURRI-TR-75, pp 60-75)
control of, using fused salts, thermostatic, 21:10138
control of, using relay-input regulators, 21:31973
control requirements for direct cycle gas turbine helium cooled, computer program analysis of, 25:20766
control rod design and fabrication for high temperature, 21:38602
control rod drive mechanism for boiling, 21:30210
control rod drive mechanism for power, results of impact testing of collect assembly for, 23:47187 (APED-5555)
control rod drive mechanism for, magnetic, 21:23668
control rod drive systems for, review of, 21:17437 (BMwF-FBK-66-13)
control rod drives for conceptual liquid sodium cooled fast breeder, testing of, 24:1981
control rod drives for gas cooled, reliability analysis in Europe of, 24:26745 (CONF-690951-1)
control rod drives for integrated gas cooled, design characteristics of, 23:28455
control rod location and management for 1000 MW(e) superheating fast breeder D-1, calculation of optimum, (T), 22:53274 (EURFNR-544)
control rod worth minimization in, use of computers for, 21:25684
control rods and drives for European, materials, characteristics and manufacturers of, 23:21446
control rods for 1000 MW(e) reference design high temperature gas cooled, reactivity worth of, 24:38491 (DP-Report-135(Pt.3))
control rods for boiling water, detailed description of design and operation of worth minimizer for, 23:52191 (APED-5449)
control rods for pressurized water, description of two position fine flux trim, 25:23267(P)
control rods for water-cooled, analysis of economics and efficiency of, 22:30190

control rods for, description and development of clustered assembly of, 23:25982 (DOCKET-50213-2)
control rods for, effects on reactivity excursions of withdrawal patterns and worth distributions of, 23:47222 (APED-5528)
control rods for, experience with boron-containing, 22:30199
control rods for, problems and requirements for standardization of, 24:18607
control rods for, results of development and testing of velocity limiter for, 23:47186 (APED-5446)
control rods for, spatial neutron flux distribution effects on measured reactivity worths of, 22:18475
control rods of gas-cooled, temperature coefficients at 15 to 210°C of, 21:21681
control system and techniques for, state of the art and trends of development for, 23:47141
control system design for, analysis of multivariable, 23:28454
control system failure and maintenance of, 21:40634
control system for 750 MW, description of multiple zone core partial shutdown, 23:45148(P)
control system for boiling dual purpose process heat, description of single circuit, 24:26747
control system for boiling, design characteristics of on-line process computer, 24:47839
control system for boiling, with load actuated rapid opening water supply valves, 24:11175(P)
control system for CIRENE, development of two phase flow rods for automatic, 25:10187
control system for conceptual 1000 MW(e) helium cooled, description of, 24:4026(R) (GA-9660)
control system for conceptual Candu type EL 600, 25:34329 (CEA-N-1421)
control system for coolant temperature in gas-cooled, description of, 23:6005(P)
control system for direct cycle gas turbine gas cooled, development of flowing gas, 25:20712
control system for direct cycle gas turbine helium cooled, development of flowing gas, 25:20777
control system for gas-cooled, description of neutron-flux- and coolant-temperature-activated flow-regulating, 23:13382(P)
control system for high-temperature, description of boiler feedwater heater-regulated, 23:2018(P)
control system for pebble bed, performance requirements of automatic, 25:31543 (AAEC/E-203)
control system for pressure-tube-type, description of multiple independent pressure surpressing- and cooling-zones, 23:9133(P)
control system for space vehicle, design parameters of two phase fluid, 24:47917(P)
control system for, analytical development of optimal, 21:5640
control system for, based on counting and Campbelling techniques, 21:13973(R) (GEAP-4900)
control system for, description of delayed coolant response for sudden load increase, 22:14215(P)
control system for, description of power monitoring, 25:28672(P)
control system for, description of single time-constant transfer function from spectral power for on-line, (T), 22:18478
control system for, design of variable-volume fluid, 21:46925(P)
control system for, evaluation of two-detector cross-correlation 2DCT shutdown reactivity meter for, 22:50738 (ORNL-4255)
control system for, use of multiple signal activation for multiple independent sensor, 23:21577(P)
control system of 500 MW(e) heavy water moderated boiling, use of on-line digital computer for, 24:20548
control system of boiling, development of neutron in-core monitor for, 23:15580
control system of boiling, use of on-line digital computer for, 24:7012
control system performance characteristics in, 22:35522
control system synthesis for, dynamic modeling of thermal processes in, 24:18622 (INR-1121)
control systems and instrumentation for, problems and requirements for standardization of, 24:18607
control systems design for large sodium-cooled fast, 21:17505
control systems for 1000 MW(e) reference design high temperature gas cooled, design parameters of, 24:38490 (DP-Report-135(Pt.2))
control systems for boiling water, development of automatic, 24:24689
control systems for boiling water, effects of two turbine plant on, 24:47842
control systems for boiling water, use of digital computers in, 22:48685
control systems for coupled core, stability of separate dual, (T), 25:60051
control systems for fail safe, design requirements for multiple unit repairable redundant, (T), 24:36010 (ZJE-76)
control systems for fast breeder, development in Japan of, 25:18120
control systems for French, development and performance evaluations of, 24:18472 (CEA-CONF-1455)
control systems for gas-cooled, design and performance of automatic, 21:17503
control systems for high-temperature gas-cooled, development of digital computer, 23:13446 (GAMD-8734)
control systems for instrumentation criteria and problems in, 23:1983
control systems for intrinsically unstable, development of direct digital, (T), 25:46334 (RT/EL-(69)7, Paper 5)
control systems for pressurized water, operation requirements of, 23:45029
control systems for pressurized water, operation requirements of, 23:45062
control systems for pressurized water, use of on-line digital process computers in, 24:24694
control systems for pressurized-water, boiling, and gas-cooled, comparison of, 23:2015
control systems for pressurized-water, recent developments in, 23:19481
control systems for self-regulated boiling water, analysis of startup and shutdown behavior of, 23:4197
control systems for water cooled, development in U.S. of instrumentation for, 25:39163 (IAEA-119, 29p.)
control systems for, analysis of safety flow-scheme for, 22:53314
control systems for, analysis of safety requirements for optimum, (T), 22:53309
control systems for, description of, 22:22741
control systems for, description of, 22:22743
control systems for, description of, 22:42220
control systems for, description of automatic, 22:48686
control systems for, description of instrumentation for, 22:22756
control systems for, description of optimum, (T), 23:11127
control systems for, design and operation of, 25:10190
control systems for, design and performance of automatic, 21:17501
control systems for, design basis standards for, 25:31458
control systems for, design characteristics of neutron flux monitoring automatic, 25:60054(P)
control systems for, design of adaptive power distribution, (T), 24:36013
control systems for, design of automatic, 23:21469
control systems for, design of automatic, 24:24691
control systems for, design of fluid, 22:1832
control systems for, design requirements for load following operation, 25:39148 (IAEA-119, 7p.)
control systems for, development in Belgium of instrumentation for, 25:39150 (IAEA-119, 8p.)
control systems for, development in Canada of, 25:39154 (IAEA-119, 12p.)
control systems for, development in Czechoslovakia of instrumentation for, 25:39157 (IAEA-119, 13p.)
control systems for, development in Denmark of instrumentation for, 25:39146 (IAEA-119, 5p.)
control systems for, development in Germany of digital computer, 25:39158 (IAEA-119, 15p.)
control systems for, development in Japan of instrumentation for, 25:39156 (IAEA-119, 13p.)
control systems for, development of automatic, 24:22241
control systems for, development of automatic, 24:47844
control systems for, development of in-core instrumentation for, 25:39159 (IAEA-119, 15p.)
control systems for, development of instrumentation for, 25:39242 (IAEA-119, 47p.)
control systems for, development of on-line digital computer, 25:53893 (A/CONF.49/P-294)
control systems for, development requirements of, 25:54059
control systems for, developments in France of automatic, 24:24693
control systems for, economic effects of failures in optimum, (T), 22:1828
control systems for, methods for maintenance and testing of, 25:20713
control systems for, performance of digital computers in, 24:24692
control systems for, reference safety analysis report for, 25:54157 (DOCKET-RESARA-4)
control systems for, review of problems with, 24:38397
control systems for, special instrumentation requirements for, 24:52786
control systems for, technological and economic requirements for automatic, 23:2016
control systems for, use of analog computer for error analysis of neutron flux and period measurement in, 22:39819
control systems for, use of data acquisition systems in, 25:23264 (UJV-2497-R)
control systems for, use of digital computers in, 24:31050 (ZJE-72)
control systems for, use of electronic equipment in, 22:48682
control systems in U. K., performance of, 25:39260 (IAEA-119, 5p.)
control systems of, development of on-line digital computer, 24:7019
control systems of, hybrid computer analysis of direct digital, 24:38510
control systems of, use of analog and digital computers for, 24:7020
control systems using digital computers in, bibliography on, 22:32784 (RISO-M-725)
coolant analysis for boron, development of concentration meter for, 21:17567(R) (WCAP-3690-2)
coolant boiling in fast breeder, analysis of transient sodium, (T), 21:13945 (ANL-7222)
coolant boiling in fast sodium-cooled breeder, analysis of voiding effects in transient, 21:17495
coolant boiling in pressurized water, acoustic wave technique for monitoring, (T), 25:12779
coolant boiling in sodium cooled fast breeder, time for thermal process propagation of, (T), 25:23320
coolant boiling in, qualitative physical model of, (E/T), 25:20728
coolant chemistry in CIRENE, effects of ammonia additions on, (E), 25:20726
coolant chemistry in organic-cooled, research programs on, 21:42811 (AECL-2527)
coolant circulators for, design of fluid driven rotary, 24:47856(P)
coolant cross mixing in fast steam-cooled, effects of natural turbulence on, (T), 23:17185
coolant crossflow mixing in core of water-cooled, effects of core configuration and boiling on turbulences in, (E/T), 23:15629 (BNWL-371(Pt.3))
coolant cycles for steam-cooled, comparison of various, 22:1788
coolant development for gas-cooled, review of, 22:7834
coolant dynamics of Czechoslovakian A—1, determination of primary cycle, 21:27735
coolant economics in Canada for heavy water-moderated, analysis of heavy water, 22:30250
coolant ejection mechanisms for liquid metal-cooled fast breeder, computer program models for analysis of, (T), 23:19515
coolant flow analysis for high temperature gas cooled, FLAC computer program for, 23:45060 (GA-9482)
coolant flow characteristics in, 21:17440(R) (EURAEC-1324)
coolant flow control in fuel channels of, description of valve regulated ball closure system for, 25:60072(P)
coolant flow control system for boiling water, with distributing vessel for feedwater, 23:40357(P)
coolant flow control system for, emergency, 21:27779(P)
coolant flow during blowdown transients in, hybrid computer simulation of two-phase, 24:38533
coolant flow effects on transient processes in, 21:31976
coolant flow in thermal, measurement of pressure drop in, 24:5804
coolant flow phase conditions in, 21:25662
coolant for CIRENE concept, crud formation and radiolysis in water—steam mixture, (E), 23:28459 (EURAEC-2090)
coolant for CIRENE, description of purification system for water, 24:46031 (CISE-N-137)
coolant for CIRENE, effects of ammonia additions on chemical properties of, (E), 25:1886
coolant for CIRENE, effects of channel configuration and heat flux on density of steam—water, (E), 25:57032
coolant for heavy water moderated boiling, steam drying for recovery of, 24:20565
coolant for heavy water moderated, silicon detector for monitoring nitrogen-16 in, 24:39270
coolant for helium cooled, world supply and demand for, 24:9100
coolant for high-temperature gas-cooled, diffusion studies on, 21:38450(R) (GA-7181)
coolant for mixed steam and water cooled, effects of steam quality on radiolysis of, 24:16573
coolant for water cooled and moderated, dissolution of gases in, 23:45077
coolant for, oxygen gettering from liquid sodium, use of thorium and zirconium alloys for, 22:1749 (AD-648248)
coolant for, performance and requirements of helium, 21:15736
coolant heating in pressurized-water, effects of power plant parameters on, (T), 22:48698
coolant leak detection in drywell of primary containment of, instrumentation for, 22:16127 (CONF-671011-, pp 228-37)
coolant loop for pressurized water, description of dual, 22:18538(P)
coolant loss accident conditions for 2568 MW(t) pressurized water, multinode computer program analysis of, 25:23305 (BAW-10015)
coolant loss accident conditions for direct cycle gas turbine helium cooled, computer program analysis of, 25:20766
coolant loss accident conditions in gas cooled fast, analog computer simulation of, 24:46073
coolant loss accident conditions in water cooled, effects of delayed bubble growth on blowdown during, (T), 25:18153 (AHSB(S)R-189)
coolant loss accident conditions in, fission product transport during, (E), 24:38575 (IN-1381)
coolant loss accident in water cooled and moderated, analysis of fission product release during, 25:57104
coolant loss accident in, effects of gamma radiation on sorption of iodine and iodomethane on activated carbon following, 25:21000 (CONF-700816-(Vol.2), pp 526-38)
coolant loss accident simulation for, use of Zircaloy-2 clad uranium dioxide pellets for out-of-pile, 22:30118 (ANL-7438)
coolant loss accidents for uranium oxide fueled, calculation of fission product release during, 25:48282 (BMI-1913)
coolant loss accidents in boiling, assumptions for evaluation of radiation hazards from, 25:28743
coolant loss accidents in pressurized water, assumptions for evaluation of radiation hazards from, 25:28742
coolant loss accidents in pressurized water, full-length emergency core cooling heat transfer during, 23:28518 (IDO-17258-E)
coolant loss accidents in water cooled, analysis of rod bundle critical heat flux during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in water cooled, containment and primary systems response analytical models for, 23:28514 (IDO-17258-A)
coolant loss accidents in water cooled, critical flow condition during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in water cooled, CVTR testing of containment system behavior during, 23:28521 (IDO-17258-H)
coolant loss accidents in water cooled, evaluation of potential effects of metal—water reactions during, 23:43074
coolant loss accidents in water cooled, fission product behavior analytical models for, 23:28515 (IDO-17258-B)
coolant loss accidents in water cooled, fission product sampling and decontamination techniques for LOFT tests on, 23:28522 (IDO-17258-I)
coolant loss accidents in water cooled, fission product behavior during, 23:28523 (IDO-17258-J)
coolant loss accidents in water cooled, fuel in thermodynamic and mechanical behavior during, 23:28519 (IDO-17258-F)
coolant loss accidents in water cooled, LOFT instrument development support program for, 23:28520 (IDO-17258-G)
coolant loss accidents in water cooled, LOFT semiscale blowdown and emergency core cooling simulation of, 23:28516 (IDO-17258-C)

coolant loss accidents in water cooled, LOFT-ESS program plan summary for assessment of, 23:28513 (IDO-17258)
coolant loss accidents in water cooled, performance of emergency core cooling systems during, 23:28524 (IDO-17258-K)
coolant loss accidents in water cooled, probability analysis for, 24:50063
coolant loss accidents in water cooled, scoping emergency core cooling heat transfer during, 23:28517 (IDO-17258-D)
coolant loss accidents in water moderated, effects on fission product transport of, 24:36050 (IN-1380)
coolant loss accidents in, analysis of effects of metal-water reactions during, 22:42202 (ORNL-NSIC-23)
coolant loss accidents in, description of Japanese blowdown test facility for simulating, 22:42267
coolant loss accidents in, fission product suppression in, 21:10170
coolant loss accidents in, heat transfer analysis model for, 22:30186
coolant loss accidents in, mathematical model for CONTEMPT—PS program for predicting pressure-temperature history in pressure-suppression containment vessel during, 23:11256(R) (IDO-17265)
coolant loss accidents in, ZOCO II code for pressure buildup in containment systems following, 25:1911 (MRR-66)
coolant loss conditions in 1000 MW(e) pressurized water, analysis of blowdown during, (E), 25:1909 (IN-1348)
coolant loss conditions in pressurized water, comparison of calculation methods for mass and energy distribution for, 24:47881(R) (IN-1320)
coolant loss in water cooled, CHEMLOC 2 computer program analysis of, 24:2004 (ANL-7575, pp 130-5)
coolant losses in, bottom-head melt-through analysis for, 21:44843(R) (IDO-17239)
coolant of boiling, purification system for, 24:7013
coolant of high-temperature gas-cooled, design of cavity resonator for detection of water vapor in, 23:35566
coolant piping for, rupture in 24-in.-OD, 22:16787(R) (BMI-1828)
coolant pumps for water cooled, design characteristics of, 24:9098
coolant pumps for, review of development of primary, 23:45072
coolant purification for water cooled, effects of bypass-cycle treatment on optimum economic, 24:29007
coolant purification system for high-temperature helium-cooled, comparison of direct cycle expansion-cooled and indirect cycle, 23:15630(T) (ORNL-tr-3012)
coolant quality in heavy water moderated boiling, calculation methods for, 24:20566
coolant reconcentration in heavy water moderated boiling, procedures for optimum, 24:20567
coolant storage for high temperature helium-cooled graphite moderated, description of high pressure steel piping for, 23:31174(P)
coolant system for steam cooled, analog computer simulation of, 24:9101
coolant systems of, corrosion product removal from, 21:19395
coolant temperature in water cooled, analysis of optimum, 24:20564
coolant void reactivity effects in fast sodium-cooled, methods for reduction of, (T), 22:35559
coolant-loss accidents in light-water, methods of analysis of, 21:25664
coolant-loss accidents in, causes and countermeasures for, 21:42759
coolants for gas-cooled high-temperature, microwave equipment for measurement of moisture in, 23:50220
coolants for liquid metal cooled, review of noise detection systems for nucleate boiling in sodium, 23:31170 (AI-67-Memo-92)
coolants for MOSEL, properties of fused fluoride salt mixtures for, 21:27685 (JUL-422-RG)
coolants for water cooled, purification and decontamination methods for, 24:18640
coolants for, book on properties of, 22:32802
coolants for, fluid flow conditions for, 22:5940
coolants for, heat transfer properties of carbon dioxide as primary and secondary, 23:40355
coolants for, summary of research on boiling burnout applicable to, 22:44850
cooling after accidents, performance of spray, 21:10146
cooling channel thermal performance improvement in AGR type, optimization of axial rating shapes for, (T), 23:28461 (RD/B/N-1328)
cooling channels for boiling, stochastic methods for analyzing hydrodynamic instabilities in, 23:28466
cooling channels for CIRENE type, use of steady-state data for calculation of transient condition critical heat flux in, 25:57024
cooling channels of, nonstationary temperature distribution in, (T), 24:43747
cooling circuit concepts for steam cooled fast breeder, 24:1971
cooling circuits for carbon dioxide cooled, analysis of advantages and disadvantages of integrated primary, 23:28540
cooling cycles for gas cooled, method for thermodynamic analysis of, 23:43113
cooling system components for, analytical methods for calculating earthquake loadings and dynamic response of, 22:53283(T) (ORNL-tr-1940)
cooling system components for, methods of designing earthquake-resistance into, 22:53283(T) (ORNL-tr-1940)
cooling system corrosion problems in carbon dioxide-cooled, 23:16464(T) (UCRL-Trans-10326)
cooling system design for dual-core fast, 21:46917(P)
cooling system equipment for water-cooled, description of, 22:42221
cooling system flaw detection in, by acoustic emissions of materials under stress, 21:38496
cooling system for 1000 MW(e) fast, recuperator for direct gas turbine, 24:9099
cooling system for 1000 MW(e) high temperature gas cooled, design parameters of primary, 24:52852 (GA-9400(Vol.1))
cooling system for 600 MW(e) high temperature direct cycle helium turbine, analysis of optimum economic, 24:36029
cooling system for advanced gas cooled, design restrictions of, 23:28411
cooling system for boiling, description of multiple downward flow impellers in forced circulation, 23:28463(P)
cooling system for carbon dioxide cooled, description of regenerative heat exchanger, 24:11181(P)
cooling system for chemical producing dual-purpose desalination, description of endothermic steam and hydrocarbon, 22:37523(P)
cooling system for closed circuit gas-turbine, description of dual-stage turbine-drive, 22:39836(P)
cooling system for conceptual 1000 MW(e) helium cooled, performance of, 24:4026(R) (GA-9660)
cooling system for conceptual 600 MW(e) heavy water cooled and moderated, design parameters for, 23:28475
cooling system for direct conversion type, description of heat pipe, 22:14216(P)
cooling system for fast breeder, use of heavy water steam in, 22:32857
cooling system for gas cooled, control of fission products in, 23:40359
cooling system for gas cooled, effects of pod boilers on design of, 23:28474
cooling system for gas cooled, flow diagram for valve actuated emergency loop for direct cycle, 23:40281(P)
cooling system for gas cooled, thermodynamic analysis of, 24:31063
cooling system for gas-cooled desalination, description of compressor and turbine effluent brine heaters in, 22:37524(P)
cooling system for gas-cooled heavy water-moderated, effects of scram conditions and main blower failures on dynamics of, 23:26042 (ZJE-34)
cooling system for graphite moderated gas cooled, description of baffled core, 23:52314(P)
cooling system for heterogeneous superheating, flow diagram for dual flow heat exchanger and feedwater preheater for, 23:49559(P)
cooling system for high temperature gas cooled, adsorption of iodine on metal surfaces of, 24:29038(R) (ORNL-TM-2919)
cooling system for high temperature gas cooled, adsorption of iodine on metal surfaces of, 24:20581(R) (ORNL-TM-2829)
cooling system for high temperature gas cooled, advantages and disadvantages of helium, 25:12789
cooling system for high temperature gas cooled, decontamination of stainless steel pipes of, 24:50103 (DP-Report-410)
cooling system for high temperature gas cooled, design problems for integrated boiler configuration in, 23:28477
cooling system for high temperature gas cooled, design requirements for primary and secondary, 25:18134
cooling system for high-temperature gas-cooled, description of direct-cycle, 23:19487(P)
cooling system for integrated, review of technology on, 23:28434
cooling system for liquid hydrocarbon-cooled, description of, 22:35524(P)
cooling system for liquid metal cooled and water cooled, design characteristics of pumps for, 24:43746
cooling system for liquid metal-cooled, description of valve-regulated by-pass flow in multi-region dual-turbine, 23:4213(P)
cooling system for liquid sodium cooled fast, description of intermediate closed loop carbon dioxide, 23:31163(P)
cooling system for liquid sodium cooled fast, development and test programs for components of, 24:47855
cooling system for multiple output, description of multiple add-on heat exchangers for, 23:23908(P)
cooling system for pressurized water, analysis of earthquake resistant design criteria for components of, (E/T), 25:10248
cooling system for prestressed-concrete pressure vessel-enclosed, summary of ENEA symposium papers concerning integrated, 23:6008
cooling system for PRO, design of organic cooled, 22:3868
cooling system for sodium cooled fast, control and monitoring of, 23:52336(T) (JPRS-48330, pp 293-312)
cooling system for steam cooled, thermal characteristics of optimum, 25:1881(P)
cooling system for steam-cooled, design of, 21:23645
cooling system for superheating fast breeder, flow diagram for primary and secondary, 23:40280(P)
cooling system for superheating, steam decontamination treatment for, 23:2023(P)
cooling system for thermal, surge and water hammer problems in condenser, 25:57036
cooling system for water-cooled direct cycle, description of integral indirect heat multistage, 23:4293(P)
cooling system for, advantages and disadvantages of lake or pond type secondary, 23:49535
cooling system for, description of jet pumps for, 22:20956(P)
cooling system for, description of leak-detection system for water—gas, 22:35519(P)
cooling system for, description of power loss valve actuated turbine bypass emergency, 23:23928(P)
cooling system for, descriptions of pumps for primary, 23:43067
cooling system for, design of dual gas—liquid, 21:5643(P)
cooling system for, design of leakage isolation system for, 21:8004(P)
cooling system for, economics of excess capacity in, 24:16185
cooling system for, evaluation of effects of metal—water reactions under coolant loss accident conditions on, 23:47220 (APED-5454)
cooling system for, finite element method for stress analysis of, 25:60142
cooling system for, flow characteristics and performance of equipment for, 25:57035
cooling system for, performance of turbines for two-cycle helium—steam and one-cycle helium, 22:30219
cooling system for, problems and requirements for standardization of pumps for, 24:18607
cooling system for, reference safety analysis report for, 25:54156 (DOCKET-RESARA-3)
cooling system for, with jet pump flow measurement means, 23:40358(P)
cooling system of boiling, description of peak-pressure valve for steam bypass in, 22:37468(P)
cooling system of conceptual 350 MW(e) Demonstration Fast Breeder Reactor, design requirements for liquid sodium, 24:7107
cooling system of dual purpose desalination, analysis of optimum economic operation for brine loop in, 24:20619
cooling system of fast, effects of pump shutdown on hydrodynamics for, (T), 24:33290
cooling system of gas cooled fast, description of prestressed concrete pressure vessel contained closed loop, 23:52320(P)
cooling system of gas cooled fast, description of prestressed concrete enclosed, 23:52340(P)
cooling system of high temperature gas cooled, use of triethylsilane additive for prevention of carbon deposition in, 23:49561(P)
cooling system of integrated gas cooled, safety considerations for, 23:28531
cooling system of liquid sodium cooled fast, design of, 23:52344
cooling system of pressurized water, description of electric heated pressure regulating device for primary, 24:4054(P)
cooling system of prototype 300 MW(e) SNR, development status and problems of liquid sodium, 24:18636
cooling system of water cooled and moderated, description of ASME inservice inspection code for, 23:31188
cooling system of water cooled, conditioning processes for condensate and feedwater in, 24:22399
cooling system of, description of high and low temperature concentric coolant channels in, 24:26850(P)
cooling system of, description of steam turbine-drives for boiler feed pump and auxiliary power for, 23:4294(P)
cooling system of, description of valve-regulated multiple parallel flow circuits for, 23:4206(P)
cooling system of, seismic analysis for pipes in, (T), 24:24831
cooling system piping for boiling water, design calculation model for stress analysis of primary, 23:47195 (GEAP-5724)
cooling system piping for U. S., standards for, 25:25864
cooling system piping for, vacuum method for leak testing of, 24:50104 (ZJE-85)
cooling system valves for, engineering requirements of, 22:42224
cooling systems for boiling heavy water cooled and moderated, design of indirect cycle, 25:25977(P)
cooling systems for boiling water, performance following coolant-loss accidents of core standby, 22:50701 (APED-5458)
cooling systems for dual-purpose, design of, 22:3813(R) (AI-CE-54)
cooling systems for heavy-water-moderated, comparison of light water and heavy water, 23:13494
cooling systems for integral prestressed concrete pressure vessel-contained carbon dioxide-cooled, description of, 22:53323(P)
cooling systems for liquid metal and gas cooled fast, comparison of design requirements for, 24:47854
cooling systems for liquid metal cooled fast breeder, development of piping, pumps, and valves for, 25:18132
cooling systems for pressure vessel-enclosed heat exchanger, description of, 22:48706(P)
cooling systems for pressurized water, design and safety aspects of, 24:24701
cooling systems for sodium cooled fast, development of components for, 25:8069 (EURFNR-828)
cooling systems for superheating, steam decontamination treatment for, 23:2022(P)
cooling systems for U. S., development and application of in-service inspection procedures for, 25:23226
cooling systems for U.S., training of inspectors for nondestructive testing of welds in, 25:39219 (CONF-710416-, Paper 9)
cooling systems for water cooled, acoustic system for leak detection and location in, 24:33286 (IN-1371)
cooling systems for water cooled, strength and pressure integrity standards for pumps and valves in, 24:43606 (NP-18352)
cooling systems for, corrosion problems in, 21:15673
cooling systems for, demineralizing water treatment in, 24:14034
cooling systems for, design and operation of water separators and reheaters in, 25:8072
cooling systems for, detailed failure effect analysis for, 22:37440 (HN-192)
cooling systems for, discussion of steam cycles in relation to, 22:3869
cooling systems for, economic and efficiency comparisons of, 22:42169 (BNWL-SA-2027)
cooling systems for, effects of chelating agents on, 23:40656

cooling systems for, effects of corrosion in, 25:25972 (BNWL-SA-3807)
cooling systems for, helium leak testing procedures for, 25:31563
cooling systems for, measurement of heat transfer and fluid flow characteristics of, 22:25004
cooling systems for, optimum economic and thermodynamic parameters of, 21:10139
cooling systems for, reactor environment effects on materials for, 22:37479
cooling systems for, standards for construction of, 25:43993 (RDT-E-15-2-T)
cooling systems for, standards for inservice inspection of, 25:46157
cooling systems for, standards for pumps and valves for, 25:34345
cooling systems for, turbulent flow temperature noise in, 23:23902
cooling systems in high-temperature gas-cooled graphite-moderated, effects of water and carbon dioxide impurities on carbon transport in, (E/T), 23:13484 (GA-8624)
cooling systems of boiling, integrated analytical model for two-phase flow stability in, (T), 23:15716
cooling systems of gas cooled, transient heat transfer behavior of, (T), 24:31064
cooling systems of heavy water moderated boiling, PRETOR-6 computer program for thermal and hydraulics performance of, 24:20563
cooling systems of high temperature gas cooled, comparison of radiation detectors for fission product monitoring in, 25:25998
cooling systems of water cooled, ASME inspection code for, 24:20481
cooling systems of, effects of temperature noise fields in, (E), 24:47831 (CONF-680980-, pp 233-47)
cooling systems of, in-service inspection program for, 24:45841
cooling systems of, safety requirements in Canada of, 25:41266 (EUR-4517, pp 57-84)
cooling systems of, seismic analysis of components and primary piping circuits for, (T), 24:13531
cooling systems of, seismic analysis of components and primary piping circuits for, (T), 24:13545
cooling systems of, standards for in-service inspection of, 25:34338
cooling systems, design and testing of valves for, 22:39825
cooling water condenser for, transit dosimetry in, 25:49018 (ANL-7760(Pt.3), pp 26-9)
cooling water for, survey of major U. S. streams for supply of, 23:13853 (BNWL-951)
core and internals for, problems and requirements for standardization of, 24:18607
core components for advanced gas cooled, fabrication and construction requirements for, 23:28433
core components for fast, effects of radioinduced voids on design of, 25:58331
core components for, radioinduced heating of, (T), 25:15341 (SZS-20/70)
core components of helium cooled, corrosion of graphite, 25:3860 (DP-Report-491)
core configuration for heterogeneous superheating, description of opposing-flow dual-region, 23:28422(P)
core configuration for, with control pins arranged in fuel pin assemblies, 25:23265(P)
core configuration of fast breeder, effects of central blanket on optimum, (T), 23:33043
core configuration of heavy water-moderated water-cooled superheating, description of improved, 22:44837 (TRG-Report-1692)
core configurations for CIRENE, parametric analyses of metal and oxide fueled, 24:4057 (CISE-R-117)
core cooling system for, analysis of failure of emergency, 22:12057
core design for, 21:2856(P)
core design for 600-MW(e) boiling-water, high power density, 21:17448(R) (GEAP-4974)
core design for conceptual 800 to 1000 MW(e) superheating, 25:34199(T) (JPRS-53069, pp 107-17)
core design for easy access, 21:30224(P)
core design for, materials and engineering aspects of, 21:15745
core design of argon- and helium-cooled, for gas turbine power conversion, 21:34099 (EUR-2757.e, pp 423-)
core design of, coolant and moderator tube arrangement in, 21:31989(P)
core design optimization for 1000 MW(e) sodium cooled fast, nonlinear programming methods for, 25:8051 (KFK-1238)
core development for gas-cooled fast breeder, July 1966 to July 1967, 23:17188(R) (GA-8107)
core dynamics for 1000 MW(e) fast, hybrid computer simulation of, 24:33544 (ANL-7626)
core fabrication for Japanese, description of domestic, 22:35486
core for BWR, depressurization performance of high pressure coolant injection system for emergency cooling of, 24:18469 (APED-5447)
core for cavity-core power concept, heat transfer, pressures, and temperatures in, (T), 24:16148
core for conceptual 1000 MW(e) gas cooled fast breeder, design comparisons of, 23:45082(R) (GA-8787)
core for fast sodium-cooled, design and development of plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:11234 (APDA-231)
core for fast thermionic, description of spaced cylinder shaped discs, 24:36057(P)
core for fast, optimum configuration for variable height, 25:41386
core for gas cooled graphite moderated, three dimensional calculation of power density and temperature in, 24:18761 (EUR-4385)
core for high temperature gas cooled, coolant flow and pressure distribution measurements in simulated, 22:42189 (GAMD-8423)
core for liquid sodium cooled fast breeder, effects of wrapper tube fuel elements on performance of step, 24:22413
core for pressure tube type, sectional units for assembly of, 24:35997(P)
core for water-moderated superheating, design parameters of, 23:19472(P)
core for Zorita, data processing methods and descriptions of instrumentation for, 24:16089
core for, economic and technical aspects of fast sodium-cooled, 22:37460
core for, economic and technical aspects of gas-cooled graphite-moderated natural uranium, 22:37460
core for, economic and technical aspects of gas-cooled heavy water-moderated natural uranium, 22:37460
core for, economic and technical aspects of water-cooled and -moderated enriched uranium, 22:37460
core for, method for analyzing detector data from, 24:7033
core for, requirements for cooling large crumbled, 23:37572
core instrumentation system for, development of full-range nuclear, 21:13973(R) (GEAP-4900)
core materials for high temperature gas cooled, radiation testing programs for, 24:40895 (TRG-Report-1911, pp 116-41)
core meltdown accident in 1000 MW(e) gas cooled fast breeder, analysis of cooling and containment requirements for, 25:54161 (ORNL-TM-3546)
core meltdown accidents in 1000 MW(e) fast, modified Bethe-Tait method analysis of, (T), 22:20853
core meltdown accidents in fast, Bethe—Tait method analysis of second excursions following, 23:15655(T) (EURFNR-579)
core melting accidents in oxide fueled water-cooled, analysis of, (E), 21:13988(R) (STL-372-47)
core melting accidents in oxide fueled water-cooled, analysis of, (T), 21:13987(R) (STL-372-44)
core of gas cooled fast breeder, design modifications for radiation induced swelling of, 25:6020
core of high temperature gas cooled, effects of steam on graphite, 24:29038(R) (ORNL-TM-2919)
core of steam cooled, effects of external steam pipe failure on design parameters of, 24:20591
core parameters for boiling heavy water, three zonal calculation method for thermal and hydraulic, 22:10015
core parameters for fast, effect of nuclear constant accuracy on, (T), 24:16280(T) (KFK-tr-301)
core parameters for heavy water-moderated natural uranium fueled, analysis of, (E), 22:22765
core parameters for light water, effects on costs of, 22:44841 (WASH-1082)
core parameters of 1000 MW(e) sodium cooled, optimization of, 23:52311(T) (JPRS-48331, pp 372-406)
core performance in boiling water cooled, review of computer methods for prediction of, 24:47724
core performance in pressurized water, effects of power distribution control on, (E/T), 24:47723
core physics for pressurized water, effects of fuel enrichment and burnable poison loadings on optimum, 25:28663
core power distribution in, problems from, plutonium loadings on, (T), 22:20780 (BNWL-624, pp 4.1-16)
core reaction parameters of thoria-blanket breeder, nuclear, 21:17533 (WAPD-TM-615)
core spray cooling systems for, performance of emergency, (E), 22:24964 (IDO-17249)
core spray systems for, experimental evaluation of, 21:44843(R) (IDO-17239)
core support design for, 21:23766(P)
core support grid for, structure of base, 21:4401(P)
core support structure for high-temperature, state-of-the-art for fabrication of, 23:15603(T) (ORNL-tr-3010)
core thermal analysis of, method for calculating hot-channel factor for, 21:25653
cores for pressurized-water, improvements in thermal performance of, 22:12053
cores for, computer monitoring of instrumentation for, 24:7087
cores for, optimization for plutonium fuel use in, (T), 22:20780 (BNWL-624, pp 4.1-16)
cores for, review of thermal and hydraulic design of, 24:18635 (RT/ING-(69)18)
corrosion control in, method of, 21:2834
cost analysis for 250 MW(e) high temperature helium cooled, 25:28719
cost analysis for boiling medium output, 25:28715
cost analysis for medium output boiling, for developing countries, 25:28637
cost analysis for medium output pressurized water, 25:28638
cost analysis for underground 1000 MW(e) boiling, 25:31600
cost analysis in Korea of 600 MW(e), 25:28539
cost analysis in Pakistan for dual purpose process heat, for fertilizer production, 25:10293
cost analysis in U.K. for low and medium output pressurized water and superheating heavy water moderated, small, 25:28720
cost analysis of 100 to 500 MW(e), 25:28583
cost analysis of pressurized water small and medium output, 25:28717
cost breakdowns for combined U. S.-Mexico dual-purpose, detailed design, 23:13418 (TID-24767)
cost estimates for single unit pressurized water, computer program for calculation of conceptual, 25:57063 (ORNL-TM-3276)
cost estimates for, results of Canada study on international, 24:16092
cost evaluations in Japan, present and future local effects on, 24:16094
cost factors for eight types of 1000 MW(e), comparison of, 23:33004 (ORNL-TM-2385)
cost factors for large, analysis for reduction of installation, 23:40283
cost for U.S. water cooled and moderated, effects of power output capacity on, 25:34387
cost-design relations of dual-purpose desalting-power, 21:35658 (ORNL-TM-1659)
costs for, description of CAPCOST computer program for determining escalated capital, 22:42167 (BNWL-822)
costs for, effects of coolant type and fuel cycle on, 25:57059 (70-CNA-628)
costs of boiling water, methods for calculating German and international, 24:16093
costs of UK export, analysis of factors affecting, 24:16130
costs of, conference on international comparison of, 24:16123 (STI/PUB-164)
costs of, effects of financing methods and fiscal systems on, 24:16125
costs of, limitations of generalized international comparisons for, 24:16207
costs of, methods for the United Kingdom evaluations of, 24:16127
coupling coefficients for, calculation of space-time transients using, 21:38563
critical heat flux for conceptual 250 MW heavy water-moderated boiling, effects of heated and unheated central rod on 19-rod bundle-type core, 23:17190 (TID-24956)
criticality calculations for small high-temperature lithium-cooled, for space power systems, 22:37512 (N-68-15792)
criticality measurements in, evaluation techniques for zero power, 25:3777
criticality of superheating heavy water moderated thermal, LILLY computer program for, 23:31152 (AEEW-M-834)
cyclone separators for 160 MW(e) and 600 MW(e) boiling, testing programs for development of steam separating, 24:18629 (EURAEC-2127)
cyclone separators for 600 MW(e) direct cycle boiling, test program for development of downflow, 23:43105(R) (EURAEC-1966)
cyclone separators for boiling, testing programs for development of steam separating, 24:18630(R) (EURAEC-2132)
data processing systems for, integration of off-site central computer systems with on-line, 23:4183
decontamination of, model of concentration time behavior during chemical, 23:6017
decontamination of, procedures and requirements for, 25:60099
desalting equipment for, description of, 22:3864
description and economics of European, operation economics, 21:42734
description of 1000 MW(e) gas-cooled fast breeder, 22:16221
description of 1000 MW(e) liquid metal-cooled fast breeder, reference design plant, 22:9990(R) (BAW-1312)
description of 1000-MW low-pressure steam-cooled breeder, 22:5943
description of 300 MW(e) liquid sodium-cooled fast breeder, 22:39826
description of 300 MW(e) sodium-cooled fast breeder, 22:6036
description of 715 MW(e), with underwater containment, 22:30221
description of British, 21:21738
description of British dual-purpose desalination gas-cooled, 22:14239
description of British gas-cooled, 21:38484
description of CIRENE, 22:1810
description of CIRENE development program, 22:20837
description of Czechoslovak A-1, 22:3850 (ZJE-1-67)
description of dual-purpose Bolsa Island plant, 21:38651
description of European, 22:5931(R) (NP-17110)
description of experimental prototypes of high-temperature gas cooled, 21:21688
description of French carbon dioxide-cooled heavy water-moderated 600 MW(e), 22:30241
description of gas-cooled, with closed-cycle gas turbine and secondary surface heat exchanger, 23:9127(P)
description of gas-cooled, with prestressed concrete pressure vessel, 22:18625(P)
description of German AGR-type, 22:53338
description of heavy water-type, 22:30171
description of integral unit 550 MW gas cooled, 22:3852
description of Japanese heavy water-moderated boiling water-cooled plutonium fueled self-sustaining, 22:30238
description of planned Spanish, 22:25028
description of reflected underground, for treatment of liquid bitumens, 22:22785(P)
description of Russian BN-350, 21:19394
description of secondary coolant superheating, 22:14225(P)
description of space, with out-of-pile thermionic diodes, heat pipes, and rod control, 23:4390 (N-68-27003)
description of St. Denis, 21:23632
description of U. S. facilities, 22:14142 (TID-8200(17th Rev.))
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
description of uranium-233-fueled molybdenum-reflected 0.14 MW(e) heat pipe thermionic cell, 22:32945
description of US, 22:24990
descriptions of French natural-uranium graphite-moderated gas-cooled, 21:38482
descriptions of U. S., tables, 21:38467 (TID-8200(16th Rev.))
descriptive parameters for, tabulation of, 21:27723
design, 21:4402(P)
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and development of 1000 MW gas-cooled, 21:35575(R) (GA-7010)
design and economics, 21:17485

design and economics of, 21:23689(P)
design and economics of 200 MW(e) beryllium oxide-moderated pebble bed, 22:22716
design and evaluation studies of thermal molten-salt breeder, summary, 22:24935 (CONF-660524-, pp 41-63)
design and operation of heavy water, correlation of PRTR operating experience for, 21:38661 (BNWL-SA-1269)
design and performance of pressurized-water dual-purpose, 21:14059
design by ASEA—ATOM, safety features of, 24:24866
design calculations for fast, Belgian computer codes for, 22:35558
design calculations of heavy water moderated boiling water cooled, UoV computer program for, 24:20641
design characteristics for, reference safety analysis report for, 25:54156 (DOCKET-RESARA-3)
design characteristics in Germany of conceptual 1100 MW boiling, tabulation and descriptions of, 23:28419
design characteristics of, 25:59915
design characteristics of AGR-type, 22:39827
design characteristics of boiling and pressurized water, effects of plutonium recycle on, 24:33316
design characteristics of conceptual integrated 600 MW(e) indirect cycle boiling heavy water cooled, 23:28430
design characteristics of dual purpose desalination, analysis of optimum, 25:54237 (A/CONF.49/P-484)
design characteristics of gas cooled heavy water moderated pressure tube and integrated, comparison of, 23:28429
design characteristics of graphite moderated gas cooled, analysis of earthquake resistant, 23:37564
design characteristics of heavy water moderated pressure tube, 25:54031 (A/CONF.49/P-483)
design characteristics of heavy water-moderated, state-of-the-art survey of, 23:1992 (BNWL-854)
design characteristics of high temperature gas cooled, 25:5884
design characteristics of high temperature helium-cooled, 22:46943
design characteristics of U.S, 25:54047
design concept evaluations for, 21:35565(R) (BAW-393-10)
design concept for 1000 MW(e) steam-cooled, with prestressed concrete vessel, 22:44816 (EURFNR-522)
design concept for 300 MW(t), with low uranium-235 critical mass, 23:28605
design concept for 5 kW(e) radiant-heated out-of-core thermionic, 23:4395
design concept for fast heat-pipe-cooled space, with plutonium-239 fuel, 23:7405 (ANL-7422)
design concept for gas core, with MHD power plant, 25:6137
design concept for production of algae in algo-agro-industrial complex, 25:54239 (A/CONF.49/P-552)
design concept for space, with heat pipe-connected thermionic diodes, 22:39850 (N-68-12426)
design concept of space, using out-of-pile thermionic diodes, heat pipes, and rod-type reactivity control, 23:6034
design concepts for 300 kW(e) and 10 MW(e) space, using Rankine cycle power conversion, 24:2044 (UCRL-50004-67-1, pp 47-82)
design concepts for steam cooled fast breeder, technical and economic evaluation of, 23:43087 (WASH-1088)
design concepts in Japan for 1000 MW(e) liquid sodium cooled fast breeder, comparison of component characteristics for, 23:47155 (ANL-7520(Pt.2), pp 90-8)
design consisting of two hemispherical sections of uranium-233, critical only at contact, 21:23704(P)
design criteria for heavy water-cooled and -moderated vertical pressure-tube, description of, 22:30235
design data for, use of zoned fast critical assemblies to obtain, 21:38688
design description for 300 MW(e) liquid sodium-cooled fast Na-2, 22:37439(T) (EURFNR-462)
design development of British, 21:38483
design evaluation of dual purpose desalination, 25:6144
design evaluation of dual-purpose, in water desalination program, 22:27630 (ORNL-TM-2203)
design evaluation of pressurized-water, enclosed in a prestressed concrete pressure vessel, 23:28468
design features of 500-MW(e) second-generation fast sodium-cooled, 21:10176
design features of AGR-type, review of, 25:23233
design features of dual-purpose power and desalination, with production of industrial salt, 23:49646
design features of gas cooled, review of, 24:13527
design features of SGHWR type, review of, 23:28439
design for 1000 MW(e) steam-cooled fast breeder, 21:23604 (KFK-392)
design for 1000 MW(e), LMFBR, Westinghouse conceptual, 24:5515 (WARD-2000-97)
design for direct electrical production using plurality of cells, 21:23693(P)
design for dual-purpose organic cooled, description and cost analysis for, 23:21541
design for earthquake-resistant floating, 22:39787 (TID-24558)
design for, use of integer programming technique for optimization of, 23:37474
design improvements for light and heavy water boiling, 22:46946
design improvements in boiling water, review of, 22:46944
design improvements in pressurized-water, review of, 22:46945
design improvements since 1955, analysis of, 21:40638
design in Austria of first, factors affecting choice of, 23:13375
design limits for, systematic analytical procedure for effects of seismic stresses on, 24:24773
design modifications for, prediction of improved, 23:49531
design of 1.5 MW(e) pressurized water, detailed, 23:43085 (ORNL-TM-2604)
design of 10 MW(e) Rankine-cycle lithium-cooled uranium nitride (UN)-fueled, for space electric propulsion, 22:30282 (UCRL-50382)
design of 10,000 MW(t) dual-purpose, 21:38653
design of 10,000 MW(t) fast sodium-cooled breeder, 21:23588 (ANL-7183)
design of 10,000 MW(t) sodium-cooled fast breeder, 21:40532 (ANL-7290, pp 216-26)
design of 1000 MW(e) fast breeder, using computer program, 21:40552 (EURFNR-320)
design of 1000 MW(e) gas-cooled fast, 21:38506
design of 1000 MW(e) steam-cooled fast breeder, 21:19393(T) (ORNL-tr-1541)
design of 1000 MW(e) uranium carbide (UC) fueled ordered pebble bed fast, economics of conceptual, 22:9992 (BNL-50027)
design of 1000 MW(e), with prestressed concrete pressure vessel, 22:24999
design of 1200 MW(e) high temperature pebble bed, conceptual, 22:35494
design of 1500 kW(e) portable, 21:35644(R) (ORNL-4136)
design of 50 kW(e), for space vehicles, 21:14045 (BMwF-FBK-66-30)
design of 528 MW(e) high temperature gas-cooled, assessment of conceptual, 22:5932(R) (NP-17118)
design of 600 to 700 MW Japanese, 21:44881
design of advanced, use of graphic display computer systems for, 25:57007
design of advanced, use of graphic display computer systems for, 25:57008
design of boiling water, features of ASEA—ATOM, 24:24696
design of boiling water, improvements in safety and economic features of, 24:24695
design of boiling, using leakage neutron flux for superheating, 21:27776(P)
design of Bolsa Island dual-purpose, 21:38578
design of CANDU-BLW type, 21:46896
design of carbon dioxide cooled, with gas turbine upstream of coolant inlet, 23:37494(P)
design of civilian, conceptual, 21:31903(R) (BNWL-CC-500)
design of core for space, engineering drawings for, 21:10526
design of direct-cycle water-cooled fast supercritical pressurized, 21:23680(P)
design of dual purpose, for reforming gas mixtures, desalination, and power, 25:54243(P)
design of dual-purpose desalination-power, 21:19454(P)
design of dual-purpose, for desalting, 21:23705(R) (ORNL-4087)
design of dual-stream, dual-purpose, 21:38577
design of earthquake resistant, in Japan, 21:10147
design of fast, superheating, 21:15719(P)
design of fast, with dissociating nitrogen tetroxide coolant, 25:48240
design of fission-electric cell, for electric propulsion in space, 21:17513
design of fluid-fuel homogeneous, for reduction of start-up problems, 21:21740(P)
design of fluidized fuel, 21:4396(P)
design of gas fueled cavity core, with thermionic converters and turbogenerators, 25:28635(P)
design of gas-cooled graphite-moderated, evaluation of integrated, 23:9170 (CEA-CONF-1033)
design of heat pipe thermionic, 21:44856 (RISO-M-514)
design of heavy water enriched-uranium, 21:4395(P)
design of heavy water moderated boiling, effects of seismic criteria on, 24:20585
design of high-temperature gas-cooled, 21:15744
design of in-core thermionic, for space vehicles, 23:11317
design of large fast, accuracy of neutron cross sections for, 21:7629 (GEAP-4472)
design of large HTGR advanced converters, 21:1159 (GA-7149)
design of large, effects of maximum credible accident concept on, 21:40551(T) (EURFNR-284)
design of medium output pressurized water, modification of high output components for conceptual, 25:28639
design of molten salt, description of economic characteristics and conceptual, 24:18597
design of pulsed, with means to convert coolant-moderator motion to electrical or mechanical energy, 25:23248(P)
design of Russian BN-350, for desalting, 21:21752(T) (CEA-tr-R-1538)
design of space, optimum thermodynamic cycle for, 21:44928
design of steam cooled, with both closed cycle and open cycle turbines, 23:47175(P)
design of steam-cooled superheating, 21:19424(P)
design of steam-cooled, with concentric arrangement of steam system components, 21:21726(P)
design of supercritical steam and pressure, operated by valves in supply and moderator tubes, 21:27777(P)
design of superheating, 21:7999(P)
design of thermal, use of neutron data for, 22:5994
design of thermoelectric generator, for underwater operation, 25:20694(P)
design of U. S., standards on safety criteria for, 25:25951
design of U.S.S.R. water cooled small portable, description of, 23:31219
design of unattended automated thermoelectric, 21:38581
design of uranium—zirconium hydride fueled, with controlled negative temperature coefficients of reactivity, 21:46923(P)
design of uranium-seed, thorium blanket, coupled-core, 21:25680(P)
design of vapor-cooled, 21:5644(P)
design of, analysis of optimum economic calculational techniques for, 24:11109
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, book on, 24:38396
design of, comparison of protection systems reliability techniques for optimum, 23:28527
design of, earthquake-resistant, 23:4291
design of, effects of limiting hot channels on failure probability in thermal, 22:12046
design of, empirical model for evaluation of tornado effects for, 23:40378 (CONF-671102-46)
design of, evaluation of and criteria for earthquake-resistant, 23:11116 (HN-189(Rev.))
design of, evaluation of seismic criteria used for, 23:37435
design of, incorporating high-efficiency heat transfer, 21:30225(P)
design of, initial engineering studies for, 21:12145 (GEAP-5201)
design of, program in Canada for foreign country markets, 25:28718
design of, research program for antiseismic, 22:27416(R) (ORNL-4228)
design of, size optimization in, 21:14057 (CEA-R-3072)
design of, summary of practices for seismic, 23:37386 (TID-25021)
design of, use of analog computer reactor simulator for, 24:36006 (ZJE-73)
design of, use of digital computer during 1957 to 1967 for, 23:47168 (CNM-R-2(Vol.1), pp 594-609)
design of, use of systemization techniques for optimum economic, 24:16154
design of, using gas turbine cycle for gas-cooled, 21:34093 (EUR-2757.e, pp 217-)
design of, using thermionic converters, 21:19399
design parameters for 1000 MW(e) gas cooled fast breeder, conceptual, 23:28432
design parameters for 1000 MW(e) gas-cooled fast breeder, limiting factors of, 23:11157 (CONF-680419-, pp 63-88)
design parameters for 1000 MW(e) heavy water moderated boiling light water cooled, 24:13526 (WASH-1086)
design parameters for 1000 MW(e) high temperature gas cooled, review of FY-69, 24:52852 (GA-9400(Vol.1))
design parameters for 1000 MW(e) integrated and non-integrated direct cycle gas turbine gas cooled, analysis of optimum, 25:20703
design parameters for 1000 MW(e) reference design high temperature gas cooled, 24:38476 (DP-Report-135(Pt.1))
design parameters for 15 kW thermionic, with cooling by heat pipes, 23:23990
design parameters for 200 MW(e) and 400 MW(e) water cooled, calculation of standard, 25:54022 (A/CONF.49/P-285)
design parameters for 300 MW(e) prototype liquid sodium cooled fast breeder, in Japan, 24:11162
design parameters for 300 MW(th) ROVI-type, 22:44858
design parameters for 500 to 1000 MW(e) liquid sodium-cooled fast, description of optimum, 22:32736(T) (ANL-Trans-588)
design parameters for 80 to 300 MW(e) pressurized heavy water cooled and water cooled, analysis of optimum economic, 23:37405
design parameters for 87 to 150 MW(e) pressurized heavy water moderated Vulcain type, analysis of optimum economic, 23:37410
design parameters for boiling heavy water moderated Yugoslav, 22:25019
design parameters for boiling heavy water-cooled 400 MW(e), conceptual, 23:15616
design parameters for Bulgarian pressurized-water, analysis of optimum economic and safety, 22:32767(T) (JPRS-45161)
design parameters for carbon dioxide cooled heavy water moderated, calculation of optimum, 23:49542(T) (NSJ-tr-151)
design parameters for carbon dioxide cooled pod boiler, for, 23:28482
design parameters for conceptual 1 to 5 kW(e) plutonium phosphide (PuP)-fueled heat-pipe thermoelectric fast, 23:19543
design parameters for conceptual 1000 MW(e) gas cooled breeder, 25:41387
design parameters for conceptual 1000 MW(e) liquid sodium-cooled fast breeder, 23:31143
design parameters for conceptual 1250 MW(t) high temperature gas cooled, 24:40876 (DP-Report-255(Pt.1))
design parameters for conceptual 1250 MW(t) high temperature gas cooled, 24:40878 (DP-Report-255(Pt.II)(Vol.2))
design parameters for conceptual 1250 MW(t) high temperature gas cooled, 24:40880 (DP-Report-255(Pt.II)(Vol.4))
design parameters for conceptual 1250 MW(t) high temperature gas cooled, 24:40877 (DP-Report-255(Pt.II)(Vol.1))
design parameters for conceptual 1250 MW(t) high temperature gas cooled, 24:40879 (DP-Report-255(Pt.II)(Vol.3))
design parameters for conceptual 20 kW liquid sodium cooled in-core thermionic, 23:43092
design parameters for conceptual 500 MW(e) liquid sodium-cooled fast breeder, 23:19465 (NP-17784)
design parameters for conceptual high temperature gas cooled, development during June to August 1969, 24:4026(R) (GA-9660)
design parameters for conceptual high temperature gas cooled, development during September to November 1968, 23:45052(R) (GA-9090)
design parameters for conceptual metal fueled pressurized water, analysis of optimum economic, 24:31124(R) (ORNL-4538)

design parameters for conceptual uranium oxide (UO_2) fueled high temperature gas cooled, development of optimum, 23:47180
design parameters for direct cycle gas turbine gas cooled, analysis of optimum economic, 25:20702
design parameters for dual purpose desalination, analysis of optimum economic, 24:50206
design parameters for dual purpose desalination, comparison of methods for calculating optimum, (T), 24:33474
design parameters for dual purpose desalination, calculation of optimum, (T), 24:22471
design parameters for externally-fueled diode-type thermionic, calculation of optimum, 23:17261 (N-68-34087)
design parameters for fast, analysis of optimum economic, 23:47176
design parameters for fast, base point method for calculation of optimum, (T), 23:49551
design parameters for fast, effects of neutron cross section errors on calculation of, (T), 24:22393
design parameters for gas turbine high temperature gas cooled, 23:28435
design parameters for gas-cooled heavy water-moderated natural uranium fueled, analysis of optimum economic, 23:26020 (ZJE-33)
design parameters for gas-cooled U.S, 22:32912
design parameters for German fast sodium-cooled, conceptual, 22:22703 (KFK-660)
design parameters for Germany 300 MW(e) prototype fast steam-cooled, description of, 23:11159 (CONF-680419-, pp 111-26)
design parameters for graphite-moderated water-cooled and fast breeder dual-purpose desalting and, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters for heavy water moderated gas cooled, 24:22384(P)
design parameters for heavy water moderated, comparison of, 24:18571
design parameters for heavy water-moderated gas-cooled, economic aspects of physical and thermodynamic, 22:1825
design parameters for high temperature gas cooled process heat and, analysis of optimum economic, 23:45055
design parameters for high temperature gas cooled, with direct cycle gas turbines, 25:20700
design parameters for in-core thermionic, for space electric propulsion, 22:37510 (GA-8390)
design parameters for large pressurized water, development of technology for, 25:18116
design parameters for liquid sodium-cooled fast 1000 MW(e), NAPS computer program for optimum, 23:5992 (BAW-1326)
design parameters for liquid sodium-cooled unclad plutonium—thorium—uranium-fueled dual-purpose desalting, analysis of optimum economic, 23:13556 (ORNL-4202)
design parameters for low enrichment uranium oxide (UO_2) fueled homogeneous helium cooled, 23:37451
design parameters for low-power terrestrial boiling and pressurized water, 22:7814(R) (ORNL-4178)
design parameters for plutonium-238—fueled, for use with isotopic heat source to supply low and high power demands, 24:41613 (MLM-1357)
design parameters for plutonium-fueled heavy-water-moderated boiling light water-cooled, 22:22702 (JAERI-1151)
design parameters for proposed 25 MW(e) Geesthacht gas turbine gas cooled, 23:28435
design parameters for superheating heavy water moderated boiling desalination, analysis of optimum economic, 25:28642
design parameters for thermal, integrated physics analysis for optimum, (T), 22:32769 (KAPL-P-3423)
design parameters for typical pressurized-water and -heavy water 300 MW(e), 23:26022
design parameters for U.S. 768 and 1015 MW(e) gas-cooled, 23:13356 (CONF-680601-45)
design parameters for U.S.S.R., description and, 23:33007
design parameters for U.S.S.R., tabular collection of, 23:26095
design parameters for underground, 25:54045(P)
design parameters for underground 1000 MW(e) boiling, conceptual, 25:31600
design parameters for uranium—zirconium hydride fueled thermoelectric, for orbiting manned space station, 23:49599 (AI-AEC-12839)
design parameters for water cooled graphite moderated process heat, 25:28538
design parameters for, analysis of optimum economic, 25:41385
design parameters for, probability method for optimum economic and safe, 24:11217 (TRG-Report-1949)
design parameters in Czechoslovakia of 500 MW(e) heavy water-moderated gas-cooled, description of optimum conceptual, 23:26021
design parameters in Iran for desalination and agro-industrial complex, analysis of optimum economic, 25:6143
design parameters in Italy for proposed 620 MW(e) advanced gas cooled graphite moderated, 23:28431
design parameters in Italy for reference 1000 MW(e) PCC-2 liquid sodium cooled fast breeder, analysis of optimum economic, 23:47160 (ANL-7520(Pt.2), pp 254-68)
design parameters in Japan for advanced thermal 165 MW(e) prototype heavy water-moderated water-cooled boiling, 23:13420
design parameters in Japan for prototype 200 to 400 MW(e) liquid sodium cooled fast breeder, analysis of optimum, 23:47156 (ANL-7520(Pt.2), pp 110-20)
design parameters in Japan for two conceptual 1000 MW(e) liquid sodium cooled fast breeder, comparison of, 23:47153 (ANL-7520(Pt.2), pp 77-85)
design parameters in Japan of prototype 200 to 300 MW(e) fast breeder, comparison of preliminary, 23:40323
design parameters in Japan of prototype liquid metal cooled fast breeder, 25:3855
design parameters in Korea of 600 MW(e), 25:28539
design parameters in Rumania of prototype, comparison of economic, 24:20499
design parameters in Rumania of prototype, comparison of, 24:20482
design parameters in U.K. for prismatic fueled high temperature gas cooled, improvements in, 23:37509
design parameters in U.S.S.R. for 12 MW(t) pressurized water, 24:16076(T) (LIB/Trans-192)
design parameters of, 24:45894
design parameters of, 21:13981 (NP-16364)
design parameters of 1000 MW(e) high temperature gas cooled, review of conceptual, 24:11155 (WASH-1085)
design parameters of 1100 MW(e) high temperature helium cooled, 24:50073 (CONF-700401-, pp 195-213)
design parameters of 1100 MW(e) HTGR-type, 25:18105
design parameters of 250 MW(e) high temperature helium cooled, 25:28719
design parameters of 300 kW(e) Rankine cycle lithium cooled fast, analysis for space vehicles of optimum, 24:16257 (N-70-11975)
design parameters of 300 kW(t), for use for research submarine propulsion and working power, 25:10298
design parameters of 300 MW(e) gas cooled fast breeder, 24:50075 (CONF-700401-, pp 795-811)
design parameters of 50 MW(t) experimental high temperature helium cooled, 25:60011 (JAERI-Memo-4419)
design parameters of 500 MW(e) heavy water moderated boiling, calculation of optimum economic, 24:20543
design parameters of 600 MW(e) helium cooled, with closed cycle gas turbine, 24:50074 (CONF-700401-, pp 214-30)
design parameters of air cooled beryllium oxide moderated ABORIGINE concept, 24:43685 (AAEC/TM-534)
design parameters of CANDU type, calculation of optimum economic, 24:43778 (UJV-2413-RT)
design parameters of CIRENE, summary of, 25:54020 (A/CONF.49/P-176)
design parameters of conceptual 1000 MW(e) dual purpose desalination with single-effect vertical tube still, economic, 24:29067 (ORNL-TM-2964)
design parameters of conceptual 1000 MW(e) molten salt converter, analysis of optimum economic, 24:47815
design parameters of conceptual direct cycle gas cooled fast, effects of silicon carbide (SiC) coated ceramic fuel on, 23:37510
design parameters of dual purpose, for industrial electricity and steam production, 24:4114
design parameters of fast breeder, 24:4030
design parameters of fast breeder, calculations for optimum economics of, 25:23251 (BARC/I-58)
design parameters of gas cooled fast breeder, 25:3854
design parameters of HTR type, 24:24791
design parameters of integrated 275 MW(t) pressurized water, 25:28641
design parameters of liquid sodium-cooled plutonium oxide (PuO_2)-uranium oxide (UO_2)-fueled 350 to 500 MW(e) fast breeder GPU/AI, analysis of conceptual, 22:37463
design parameters of low output water cooled and moderated, analysis of optimum economic, 25:28640
design parameters of low-pressure-steam-cooled breeder, 22:5944
design parameters of medium output boiling, 25:28715
design parameters of molten salt, with boiling coolant, 23:52335(T) (JPRS-48330, pp 188-227)
design parameters of pressurized water, review of, 24:13528
design parameters of pressurized water, review of, 24:18609
design parameters of proposed boiling water and gas cooled, 24:43608
design parameters of Santa Maria La Garona, 22:22712 (STI/PUB-174)
design parameters of small and medium output pressurized water, 25:28717
design parameters of Zorita, 24:11148
design parameters of Zorita-1, 22:22712 (STI/PUB-174)
design parameters of, analysis of optimum economic, 24:2003
design problems in Japan for conceptual 1000 MW(e) liquid sodium cooled fast breeder, 23:47154 (ANL-7520(Pt.2), pp 86-9)
design requirements for sodium cooled fast breeder dual-purpose power and desalination, 23:49627
design requirements for U.S., effects of earthquake forces on, 23:49578
design requirements in Japan of, analysis of earthquake resisting, 25:5939
design safety for, development and use of CHORD-S information retrieval system for, 23:21418 (ORNL-TM-2447)
design specifications for commercial, in United Kingdom in relation to siting policy, 24:7876
design standards for, 24:45863 (BNL-50205, pp 33-4)
design study of beryllia-moderated high-temperature gas-oooled, with parallel-channel and pebble-bed cores, 21:12116 (AAEC/E-153)
design trends for helium cooled, review of, 24:33231 (ORNL-TM-2946)
design with closed cycle carbon dioxide gas turbine and means for turbine speed control, 25:28648(P)
design with closed cycle carbon dioxide gas turbine and means for maintaining constant pressure at reactor inlet, 25:28647(P)
design with closed cycle carbon dioxide gas turbines and two compression and expansion stages, 25:28646(P)
design with closed cycle carbon dioxide gas turbines and automatic control of throttle and gas flow, 25:28653(P)
design with fast region dispersed throughout thermal region of core, 21:30229(P)
design with fluid cooling and control system for, 21:40647(P)
design with liquid moderator, 21:2857(P)
design with means for condensing coolant vapors from minor cooling system leaks, 25:51154(P)
design with pressure operated fluid control system, 21:44901(P)
design with prestressed concrete pressure vessel and direct cycle gas turbine, 25:23249(P)
design with reheater stage and steam turbine driven feedwater pump, 25:51037(P)
design with secondary water coolant vaporized and superheated in once-through operation, 21:25694(P)
design with short pressure vessel and improved refueling method, 22:25047(P)
design with thermionic converter for power range from 5 to 50 kW(e), 21:30241
design, construction, and operation of, in Europe, 21:25667
designs for, bibliography of, 21:19346 (BNWL-326)
development activities of ENEA during 1967, 22:14382(R) (NP-17231)
development activities of the Australian AEC, 21:47022(R) (NP-17065)
development and costs of, summary comparison for international and OECD, 23:26025
development and economics in EURATOM community, 22:24953 (EUR-3561)
development and economics in Ontario, 21:25678
development and economics of dual purpose in U.K, 21:23707
development and economics of fast breeder, 21:42779
development and economics of world, summary of, 22:46932
development and operation of British, during 1956 to 1967, 22:10018
development and performance of fast, in U.K, 21:15721
development and use, report to the President on international and U. S, 21:19387 (TID-23729)
development aspects of, 22:18486
development by Euratom, survey of policy for, 23:21458
development by USAEC, JCAE hearings on, 22:10047
development criteria for heavy water-moderated, review of, 21:40520 (AECL-2827)
development during 1967 and 1968, review of international, 23:37457
development during 1969 of, review of worldwide, 24:40726
development during 1970 to 1980, projections of world wide, 24:24706
development for desalination and agro-industrial complexes during November 1969 through October 1970, 25:28790(R) (ORNL-4668)
development for electric power generation, U.S. national policy on, 22:190
development for marine power sources, 22:47287 (AERE-R-5500(Vol.2), pp 462-79)
development for meeting power requirements of western Europe, 21:21663
development for space, 21:28138
development for space systems, review of, 22:16259
development for space vehicle power supply, survey of, 23:11314
development for spacecraft electric power systems, review on, 25:57671
development for use with thermionic converters for space vehicles, 21:31280(R) (BMwF-FBK-67-46)
development from 1960 to 1980 in Netherlands of, analysis of, 23:33010
development in Argentina of, review of, 23:37407
development in Australia of, economics of, 25:15240
development in Australia, 1968-1969, 24:4187(R) (NP-18051)
development in Belgium during 1968, 24:9079(R) (NP-18052)
development in Benelux countries, review of, 25:44092
development in Brazil of heavy water-cooled and -moderated thorium-converter, engineering and economics of, 22:30249
development in Brazil, analysis of optimum economic, 24:3990 (IEA-142)
development in Canada of 0.5 to 30 MW(e) boiling water, pressurized water, and superheating, economics for predicted 1976 to 1980, 23:37411
development in Canada of 100 to 400 MW(e) heavy water moderated CANDU type, review of economics for, 23:37412
development in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
development in Canada of, review of present and future, 23:23846
development in Chile, economic aspects of, 25:28723
development in Chile, prospects and problems of, 23:43078 (CONF-670338, pp 185-96)
development in China, review of, 24:13639
development in Czechoslovakia, 21:23658
development in Czechoslovakia of heavy water-moderated gas-cooled, analysis of optimum design for, 22:30231
development in Czechoslovakia of, description of, 23:11117(T) (JPRS-47209)
development in Czechoslovakia of, economics for optimum, 23:26054
development in Czechoslovakia of, predicted 1970 to 2000, 23:31129 (ZJE-38)
development in Czechoslovakia of, predictions to 1990 of economic, 23:11119(T) (JPRS-47209, pp 57-73)
development in Czechoslovakia of, review of economics and engineering for 1970 to 1990, 23:26001 (ZJE-35)
development in Denmark, Finland, Norway, and Sweden, regional cooperation program for, 25:54010 (A/CONF.49/P-7)

development in East Germany, review of, 24:24799
development in Eastern Europe, 24:13494
development in Euratom countries of, survey of, 23:19475
development in EURATOM, outlook and status of, 21:21630 (EUR-2773.e)
development in Europe and U. S., review of, 23:21460
development in Europe of fast breeder, review of, 23:23859
development in Europe of high temperature gas cooled, 25:12707
development in Europe of, effects of sharing technology on, 24:28928
development in Europe of, present trends for, 23:23868
development in European Communities, effects on energy supply situation of, 25:46230 (EUR-4350)
development in France, 25:54035 (A/CONF.49/P-569)
development in France of dual purpose desalination, 25:18216
development in France of, economics for, 23:47210 (CNM-R-2(Vol.1), pp 34-45)
development in France of, economics of, 23:19466
development in France, economic and industrial aspects of, 23:34898
development in France, long term policy for, 23:31148
development in France, problems in and proposals for economic, 23:52373
development in Germany, 25:10105
development in Germany and U.K. of gas cooled, comparison of economics for, 23:37453
development in Germany and U.S. during 1970 to 2020 of, effects of reactor types on optimum economic, 23:28414 (JUL-556-PA-RG)
development in Germany of, 25:60012 (JUL-775-RG)
development in Germany of 300 MW(e) prototype steam cooled fast breeder, review of, 25:12767 (BMBW-FBK-70-20)
development in Germany of boiling and pressurized water, review of, 25:53957 (A/CONF.49/P-806)
development in Germany of dual purpose desalination and, comparison of reactor types for optimum economic, 24:22467 (BMwF-FBK-69-40)
development in Germany of fast breeder, 24:22382
development in Germany of fast breeder, analysis of optimum economic, 24:28988 (KFK-1066)
development in Germany of high temperature gas cooled pebble bed, review of, 24:35999
development in Germany of high temperature gas cooled, effects of fuel cycle on predicted economic, 23:37512
development in Germany of high-temperature, effects on economics to 1990 of, 23:23932
development in Germany of, analysis of optimum economic, 23:47214
development in Germany of, description of, 23:9108
development in Germany of, problems related to, 25:10097
development in Germany to year 2000, 23:7383
development in Germany, criteria for selection of reactor types for, 23:23865
development in Germany, planning for, 25:57003
development in Germany, review of, 24:18606
development in Germany, review of, 24:30964
development in Germany, review of, 25:56877 (CONF-700438)
development in Great Britain, review of, 23:49544
development in Greece of, review of competitive economics for, 23:37402
development in India of 200 to 300 MW(e), analysis of economic, 23:37404
development in India of agro-industrial complex, 25:26056
development in India of agro-industrial process heat, analysis of optimum economic, 24:20617 (BARC-453)
development in India of medium output heavy water moderated, 25:28580
development in India, analysis of optimum economic, 25:25859
development in Israel of dual purpose desalination, 25:18211
development in Italy of, 21:46880
development in Italy of liquid metal cooled fast breeder, cost analysis for, 25:54019 (A/CONF.49/P-175)
development in Italy, economics of, 24:16146
development in Italy, review of program for, 25:54018 (A/CONF.49/P-169)
development in Italy, technical and economic progress in, 23:13427
development in Japan, 22:18659
development in Japan during 1968, 23:49545
development in Japan during April 1969 to March 1970, description of, 24:1974
development in Japan of advanced thermal prototype 200 MW(e) heavy water moderated light water cooled boiling, 23:33033
development in Japan of conceptual 165 MW(e) Advanced Thermal Reactor, review of, 23:43091
development in Japan of dual purpose desalination, 25:18217
development in Japan of dual purpose gas cooled process heat and, 25:37092
development in Japan of fast breeder liquid sodium-cooled, technology for, 23:13421
development in Japan of high temperature gas cooled, effects of thorium fuel cycle on, 25:1856
development in Japan of, analysis of optimum economic, 25:3804
development in Japan of, analysis of present and future, 23:17180
development in Japan of, economics of, 23:11150
development in Japan of, planned program through 1976 for, 23:17173
development in Japan of, review of, 24:1973
development in Japan, predicted, 25:28582
development in Japan, programs for future, 23:13428
development in Japan, review of fiscal 1969, 25:20696
development in Japan, status of, 25:5945
development in Latin America, 22:39965 (PRNC-112)
development in Mexico of 75 to 300 MW(e), economics for predicted, 23:37408
development in Netherlands of, effects of fuel economics on, 23:21428
development in Norway, survey of, 24:43705
development in Norway, survey of, 24:43704
development in Pakistan of 100 to 300 MW(e), economics for predicted 1968 to 1985, 23:37406
development in Pakistan, 1967—1968, 24:36647(R) (NP-18125)
development in Poland during 1980 to 2000, analysis of optimum, 23:40276 (INR-1036)
development in South Africa, 21:38826(R) (NP-16864)
development in South Africa of Candu- and Magnox-type, economics for, 23:19506
development in South Africa, analysis of optimum economic, 23:13434
development in South Africa, projections of, 23:37449
development in Soviet Union, survey of, 22:53502(T) (ORNL-tr-1990)
development in Spain of dual purpose desalination, 25:18212
development in Spain of, comparison of fossil fuel and hydroelectric economics during 1956 to 1980 with, 23:37413
development in Spain, predictions for 1970 to 2000, 25:10104
development in Sweden, 23:52321
development in Sweden of, 24:20480
development in Sweden of 100 to 300 MW(e) boiling heavy water moderated and water moderated, comparison of economics for, 23:37401
development in Sweden of boiling heavy water cooled, review of, 24:24788
development in Sweden of, review of economics for, 23:23871
development in Switzerland of, review of, 24:35938
development in Switzerland of, review of economic, 23:21419 (RISO-M-775)
development in The Netherlands, review of program for, 25:39165(T) (LIB/Trans-353)
development in Turkey, economic aspects and management requirements of, 25:28724
development in U. K, 25:36863 (CONF-700653-1)
development in U. K. of gas-cooled, description of, 22:46905 (NP-17599)
development in U. K. of SGHWR-type, economics for, 23:19508
development in U. K., long-term program for, 23:13429
development in U. S. during 1967, 23:43054
development in U. S. of 25 to 300 MW(e), analysis of economics for, 23:37409
development in U. S. of pressurized water, review of, 24:38402 (CONF-700317, Paper 15)
development in U. S. of, analysis of delays in, 23:49536
development in U. S. of, analysis of economics for 1986 to 2005, 23:19450
development in U. S., predicted trends for, 24:38390 (CONF-700317-, Paper 20)
development in U. S., status and prospects for, 25:39206 (A/CONF.49/P-34)
development in U. S., survey of, 25:10102
development in U.A.R. of, effects of size on optimum economic, 23:37403
development in U.K, 25:60030
development in U.K, 25:25852
development in U.K. of 200 and 300 MW(e) heavy water moderated boiling superheating, comparison of economics for, 23:37414
development in U.K. of dual purpose desalination, 25:18210
development in U.K. of fast, economic objectives for, 23:28417 (TRG-Report-1801(Rev.))
development in U.K. of gas cooled, review of, 23:47147
development in U.K. of high temperature gas cooled Mark 3, 24:28989 (TRG-Report-1996)
development in U.K. of, analysis of optimum economic, 24:11113
development in U.K. of, review of, 23:33009
development in U.K. of, review of, 23:47211 (CNM-R-2(Vol.1), pp 58-69)
development in U.K., Parliamentary committee report on, 22:35549
development in U.K., review of, 23:28412
development in U.K., review of, 23:28437
development in U.S. during 1968, 23:43090
development in U.S. of dual purpose desalination, 25:18214
development in U.S. of fast breeder, predicted schedule for, 24:24786
development in U.S. of liquid metal cooled fast breeder, cost—benefit analysis of optimum economic, 23:33058 (WASH-1126)
development in U.S. of, economics for, 23:33014
development in U.S. of, prediction for 1969 to 1977, 23:19442 (ORO-665, pp 31-71)
development in U.S. of, problems for utility company, 23:19443 (ORO-665, pp 175-83)
development in U.S. of, review of, 23:19442 (ORO-665, pp 31-71)
development in U.S. of, review of, 23:47167 (CNM-R-2(Vol.1), pp 70-93)
development in U.S., proposed schedule for, 25:54046
development in U.S.S.R, 24:52749
development in U.S.S.R. of dual-purpose desalting, description of, 23:11117(T) (JPRS-47209)
development in U.S.S.R. of fast breeder, review of, 23:13369(T) (JPRS-46747)
development in U.S.S.R. of fast breeder, review of, 23:13370(T) (JPRS-46747, pp 1-13)
development in U.S.S.R. of liquid sodium cooled fast, review of, 24:18598
development in U.S.S.R. of small and medium output boiling, 25:28716
development in U.S.S.R. of water cooled and moderated, review of, 24:18592
development in U.S.S.R. of, analysis of optimum economic, 24:43706
development in U.S.S.R. of, effects on fuel-energy balance of, 23:13348(T) (AEC-tr-6995)
development in U.S.S.R., conference on, 25:48237
development in U.S.S.R., description of, 22:30210
development in U.S.S.R., review of, 24:1960
development in U.S.S.R., review of, 24:4003
development in U.S.S.R., review of, 22:20839
development in U.S.S.R., review of, 25:31534 (WASH-1175)
development in United Kingdom, 21:38625
development in Western Europe of 5 unit 5000 MW(e), economic and technical aspects of, 23:40295
development in western Europe of fast breeder, 21:46885
development in Western Europe of, analysis of optimum, 23:19468
development in Western Europe, effects of size on economics of, 23:52295
development in Western Europe, review of 1969, 24:26739 (NP-18211)
development in Yugoslavia of, conference on, 24:20542
development in Yugoslavia of, economics for, 22:24995
development of worldwide, effects of electric power demands on, 25:59898
development of 0.5 to 300 MW(e), economics for worldwide, 23:37385 (STI/PUB-217)
development of 100 to 500 MW(e), 25:28583
development of 1000 MW(e) high temperature gas cooled, review of FY-69, 24:52852 (GA-9400(Vol.1))
development of 1000 MW(e) high temperature gas cooled, review of, 24:11155 (WASH-1085)
development of 1000 MW(e) HTGR concept during December 1969 to February 1970, 24:28987(R) (GA-9944)
development of 1000 MW(e) HTGR concept during December 1970 through February 1971, 25:36977(R) (GA-10501)
development of 1000 MW(e) HTGR concept during June through August 1970, 25:8050(R) (GA-10288)
development of 1000 MW(e) HTGR concept during March through May 1970, 24:43697(R) (GA-10088)
development of 1000 MW(e) HTGR concept during March through May 1971, 25:48257(R) (GA-10661)
development of 1000 MW(e) HTGR concept during Sept. through Nov. 1969, 24:18585(R) (GA-9815)
development of 1000 MW(e) HTGR concept during September through November 1970, 25:28633(R) (GA-10399)
development of 1000 MW(e) molten salt fueled breeder, predicted economic, 23:31149
development of 1000 MW(e) sodium-cooled fast breeder, system effectiveness approach for optimum, 23:19471
development of 1000 MW(e) sodium-cooled fast breeder, system effectiveness approach for optimum, 23:19470
development of 1000 Mw(e) sodium-cooled fast, feasibility of, 21:1166 (NAA-SR-11378(Vol.2))
development of 200 to 450 MW(e), conference on, 24:13501
development of 330 MW(e) helium cooled fast breeder, 24:24796
development of 500 to 1000 MW(e) liquid sodium-cooled fast, analysis of problems in, 22:32736(T) (ANL-Trans-588)
development of advanced concepts, review of, 22:20849
development of advanced converter, trends in, 25:23239
development of advanced converters, economics in U.S. program, 24:11206
development of advanced gas cooled, in United Kingdom, 21:38593
development of AGR and HTR type, review of, 23:28438
development of agro-industrial complex, advantages and disadvantages of, 25:48322 (ORNL-TM-3444)
development of Belgian—Dutch—German 300 MW(e) prototype liquid sodium cooled fast breeder, review of design considerations and experimental programs for, 23:47157 (ANL-7520(Pt.2), pp 130-46)
development of boiling water, in Japan, 25:23234
development of boiling water, increased system performance from, 21:21676
development of boiling water, review of, 24:47817
development of boiling water, review of 1969 progress on, 24:52858
development of boiling-water, review of technical and economic, 23:13425
development of boiling-water, summary of progress in, 21:23660
development of breeder, review of economic and technical aspects to 1965, 23:11171
development of breeder, status of U.S, 24:16138
development of British, 21:31960
development of British gas-cooled, survey of, 22:14200
development of British, program for, 21:27732
development of British, review of program for, 22:16213
development of Canada, description of, 23:5986
development of Canadian, 21:5595 (AECL-2486)
development of Canadian, engineering aspects of, 21:13944 (AECL-2830)
development of CANDU pressurized heavy water, review of, 24:24787
development of CANDU-type, predictions of future, 23:13423
development of CIRENE prototype, 21:46890
development of CIRENE, heat transfer and fluid flow studies for, 25:34350
development of commercial fast, review of programs in U.S. and Europe for, 23:28436
development of conceptual gas cooled fast breeder, economic and technical criteria for, 23:33030 (WASH-1089)
development of coupled, safety and technological aspects of, 21:17456 (LA-DC-8288)
development of deep submergence, 1967 summary of, 23:7411

development of direct cycle gas turbine gas cooled, 25:20699
development of direct cycle gas turbine helium cooled, analysis of optimum economic, 25:20701
development of direct cycle high temperature gas cooled, analysis of optimum economic, 24:46008
development of dual purpose desalination, 25:60201
development of dual purpose desalination, 25:18207
development of dual purpose desalination, 25:18208
development of dual purpose desalination, analysis of optimum economic, 24:31124(R) (ORNL-4538)
development of dual purpose desalination, analysis of optimum economic, 25:18209
development of dual purpose desalination, cost analysis for, 24:33475
development of dual purpose desalination, in Japan, 25:18221
development of dual purpose desalination, review of, 25:18219
development of dual purpose desalination, state-of-the-art, 24:22470
development of dual purpose power plants and industrial complexes, 24:24898
development of dual purpose process heat and, for economic iron production in Japan, 24:16266
development of dual purpose process heat and, for agro-industrial complexes in India, 25:54238 (A/CONF.49/P-529)
development of dual purpose process heat, for industry, 24:47918
development of dual purpose process heat, for space heating and air conditioning, 25:34388
development of dual purpose, for power production and desalination, 25:34203
development of dual purpose, for power production and desalination, 25:39325 (A/CONF.49/P-51)
development of dual purpose, for use in chemical industry, 25:26055
development of dual-purpose desalination-, 23:9129
development of dual-purpose desalting, prediction of future worldwide, 23:13558
development of dual-purpose power and desalination, summary of U. K. program for, 23:49609
development of dual-purpose power and desalination, technical and economic feasibility of, 23:49645
development of dual-purpose power and desalination, with flash distillation plant, 23:49614
development of dual-purpose power-desalination, review of, 23:13559
development of dual-purpose power-desalination, United Kingdom program for, 23:13564
development of dual-purpose, for agro-industrial complexes, 23:28593(R) (ORNL-4409)
development of dual-purpose, U. S. program for, 21:38650
development of economic heavy-water-moderated, review of, 23:13435
development of economic optimum long-term, computer analysis of, 23:4175
development of European gas cooled, summary of, 24:13533
development of fast and thermal, comparison of, 25:25963
development of fast breeder, 24:16135
development of fast breeder, analysis of joint manufacturer-utility-government efforts for optimum, 22:35506
development of fast breeder, economic and performance aspects of, 24:16142
development of fast breeder, effects on economics of world-wide, 23:23933
development of fast breeder, in U.S.S.R, 23:15612
development of fast breeder, problems of, 24:4030
development of fast breeder, program in Japan for, 25:23240
development of fast breeder, review of, 24:18604
development of fast breeder, review of materials and operating problems in, 24:13535
development of fast breeder, review of theoretical and technical, 23:40328
development of fast breeder, review of world-wide, 24:5516
development of fast breeder, review of worldwide, 22:25034
development of fast breeder, technical and economic aspects of, 24:24857
development of fast breeder, technical and economic aspects of, 23:47181
development of fast breeder, U.S. program for, 24:16145
development of fast breeder, utility company economic requirements for, 23:11164 (CONF-680419-, pp 454-8)
development of fast sodium-cooled, review of European programs for, 23:4173(T) (ORNL-tr-1783)
development of fast, conference on role of university nuclear engineering programs in, 25:36976 (CONF-680818)
development of fast, conference on systems, materials, and components for, 23:11155 (CONF-680419)
development of fast, European program for, 22:18497
development of fast, French program for, 23:4162(T) (AEC-tr-6985)
development of fast, in Czechoslovakia, 23:52307(T) (JPRS-48330, pp 12-17)
development of fast, in U.S.S.R, 22:39806
development of fast, review of world wide, 24:4028
development of fast, western European programs for, 23:11249(T) (ORNL-tr-1784)
development of fast-breeder, economics in Europe of, 22:3857
development of fission—fusion, 25:25148
development of fluid fueled thermal breeder, technical and economic aspects of, 25:23245
development of free world, description for 1985, 22:27431
development of French, 21:27708
development of full-scale fast breeder, utility company perspective on, 23:11160 (CONF-680419-, pp 127-32)
development of fused salt, description of SAWA and WARS concepts for, 21:42772
development of future, based on experience in the U. K, 22:18477
development of gas cooled fast breeder, problems with, 24:46002
development of gas cooled graphite moderated, in France, 24:24683
development of gas cooled, during Oct. 1968 to Mar. 1969, 24:4059(R) (ORNL-4424)
development of gas cooled, during October 1969 to March 1970, 25:5990(R) (ORNL-4589)
development of gas cooled, review of world-wide, 23:31136
development of gas cooled, status of German program for, 25:5944
development of gas cooled, trends in, 25:23238
development of gas cooled, with direct cycle gas turbines, 24:18601
development of gas core, feasibility study for, 24:4104 (AD-692113)
development of gas-cooled fast-breeder, 21:42728 (KFK-595)
development of gas-cooled graphite-moderated, review of, 22:18494
development of gas-cooled, history of, 22:20850
development of gas-cooled, in United Kingdom, 22:6060
development of German, 21:19417
development of German heavy-water-moderated, review of, 23:13436
development of German, description of, 22:24981
development of Germany, type comparisons for optimum economic, 23:1996
development of heavy water moderated gas cooled dual purpose desalination, review in U. K. of optimum economic, 24:26820
development of heavy water moderated, concepts for, 24:24823
development of heavy water moderated, economics of international, 22:25038
development of heavy water moderated, present status of world-wide, 24:22253 (AECL-3558)
development of heavy water moderated, prospects for, 24:45992 (AECL-3660)
development of heavy water moderated, status of, 25:60019
development of heavy water moderated, USAEC—AECL program for, 22:20808(R) (DPST-68-83-2)
development of heavy water-cooled and -moderated uranium oxide (UO_2)-fueled 600 MW(e) prestressed concrete-contained, description of, 22:30234
development of heavy-water, review of Western European, 22:18496
development of heavy-water-moderated CIRENE concept, 23:13437
development of heavy-water-moderated, review of, 23:13389
development of high temperature gas cooled dual purpose desalting and, analysis of economic and technical possibilities for, 23:37677
development of high temperature gas cooled, conference on, 23:37448 (STI/PUB-197)
development of high temperature gas cooled, problems with, 24:45999
development of high temperature gas cooled, review of, 24:18682
development of high temperature gas cooled, review of, 24:18605
development of high temperature gas cooled, review of worldwide programs for, 25:46238
development of high temperature gas cooled, summary of, 23:13377
development of high temperature helium cooled process heat, 25:28794
development of high temperature helium cooled, estimates in England to year 1990 of, 25:54029 (A/CONF.49/P-480)
development of high temperature helium cooled, review of U.K, 24:16136
development of high temperature helium cooled, review of potential for, 24:52857
development of high temperature helium cooled, with direct cycle gas turbine, 24:22385
development of high-temperature gas-cooled, 21:19381(R) (ORNL-4036)
development of high-temperature gas-cooled, review of U. S, 21:27725
development of high-temperature thermal, in Germany, 21:44828 (EUR-3493.e)
development of high-temperature, future and present, 21:10151
development of HTR type, review of, 24:24789
development of HTR type, review of, 24:24790
development of HTR type, with direct cycle helium turbines, 24:24686
development of in-core thermionic, for space vehicles, 25:54230
development of Italy fast liquid sodium-cooled, program for, 23:4177
development of Japan, economics for, 23:9102
development of Japanese fast breeder, description of, 22:35485
development of large HTGR type, review of U. S, 24:24685
development of large, economic and technological aspects of, 22:16209
development of light-water, review of, 22:18493
development of liquid metal cooled fast breeder, in Germany during 1970, 25:31538
development of liquid sodium cooled fast breeder, conference on, 23:47150 (ANL-7520(Pt.2))
development of liquid sodium cooled fast breeder, in Japan, 25:54043 (A/CONF.49/P-819)
development of liquid sodium cooled fast breeder, review of, 25:60029
development of liquid sodium-cooled breeder, review of general trends in, 23:31145
development of liquid sodium-cooled fast breeder, engineering aspects of, 22:16220
development of molten salt, economic outlook for, 24:29029
development of molten salt, review of, 25:18106
development of molten-salt, March to August 1966, 21:23612(R) (ORNL-4037)
development of multiple purpose, for agro-industrial complexes, 24:18518
development of multiple-unit, economics of, 22:16218
development of ocean based process heat, for offshore industrial complex, 25:5881
development of optimum economic, analog computer simulation for, 23:11117(T) (JPRS-47209)
development of portable 2 to 10 MW(e), analysis optimum economic, 23:4400
development of pressurized water, review of, 22:24985
development of pressurized water, review of problems in, 24:52855
development of pressurized-water, review of, 23:15565
development of safe U.K., analysis of optimum economic, 23:4482
development of small and medium output, conference on, 25:28529 (STI/PUB-267)
development of small and medium, economic feasibility of, 25:34204
development of small, in Latin America, 21:21743
development of small, technical and economic aspects of, 22:18495
development of sodium cooled fast, CNEN project schedule for, 25:8049 (EURFNR-829)
development of sodium cooled fast, summary of CNEN activities on, 25:8048 (EURFNR-825)
development of sodium cooled, European cooperation in, 24:4034
development of sodium-cooled fast breeder, in Germany, 23:15609
development of sodium-graphite, 21:1167 (NAA-SR-Memo-9758)
development of South Africa, analysis of criteria for economic, 22:53299
development of Soviet, 21:27703
development of standard siting method for, effect of atmospheric properties on, 21:30540 (AECL-2682)
development of steam-generating heavy water-moderated, design parameters for economic, 22:35495
development of Sweden, comparison of water-cooled and heavy water-cooled, 23:9107
development of Swedish heavy-water-moderated, review of, 23:13438
development of terrestrial low-power, 23:8169 (ORNL-4370, pp 219-20)
development of thermal, effects of uranium supplies on economic, 23:23917
development of thermal, review of, 25:5878(T) (UCRL-Trans-10495)
development of thermionic, for space vehicle auxiliary power, 23:11318
development of thermionic, review of, 24:31122
development of thermoelectric, review of, 25:46319
development of thorium-fueled, 21:35540 (AEET-269)
development of three-zone construction, 21:23667
development of U. S., analysis of 1968 to 1974, 23:15567
development of U. S., analysis of optimum, 22:35508
development of U. S., economic predictions to 1980 for, 23:9106
development of U. S., economic strategies for, 25:44145
development of U. S., JCAE hearings on, 22:10048
development of U. S., JCAE hearings on, 22:10046
development of U. S., JCAE hearings on, 22:10045
development of U. S., JCAE hearings on, 25:46236
development of U. S., model for determination of long-term optimum, 24:4029
development of U. S., summary of 1968, 23:4518
development of U.K. advanced gas-cooled, description of, 22:48678
development of U.K. fast, analysis of economic, 23:9100 (TRG-Report-1631)
development of U.K. gas-cooled, review of and predictions for, 23:19469
development of U.S. fast breeder, economic incentives for, 23:11080 (CONF-680419-, pp 9-24)
development of U.S., JCAE hearings on, 24:31038
development of U.S., review of, 22:16214
development of U.S.S.R. Topaz, with thermionic converter, 25:54044 (A/CONF.49/P-852)
development of U.S.S.R.-supported, review of, 23:9116
development of USSR light water, review of, 23:40329
development of VVER-type, in U.S.S.R, 22:39807
development of water cooled and water moderated, analysis of optimum, 24:43780
development of water cooled, summary of Netherlands activities on, 25:23242
development of water cooled, trends in, 25:23237
development of water moderated boiling, review of, 24:13509
development of water moderated boiling, review of, 24:18566
development of Western Europe, review of planned, 23:15601 (NP-17770)
development of Western European, economic potential of, 22:18498
development of world, history of, 22:24984
development of world-wide, description of economics for, 23:11170
development of world-wide, economics for, 23:9102
development of world-wide, projections to the year 2010 of, 22:42271
development of Yugoslav, 22:16167(T) (JPRS-44180)
development of, activities of Petten Joint Research Center on, 25:23246
development of, analysis of problems for public utility, 23:49532
development of, analysis of world-wide, 22:42227

development of, analytical methods for physical problems in fast, 21:15711
development of, changes in national programs for, 25:60024
development of, chemical problems in, 22:42261
development of, CIRENE program for, 21:23652
development of, coal industry briefing on, 21:17438 (CONF-660930)
development of, conference on, 21:27741
development of, conference on, 24:24682
development of, description of Japanese facilities for, 25:15823
development of, discussions on, 22:18499
development of, economic analysis of, 22:42256
development of, economic potential of future, 23:15649
development of, economics and technical aspects of, 21:7987
development of, economics for optimum world-wide, 23:26054
development of, effects of electric power market on worldwide, 24:52785
development of, effects of fossil fuel power plant experience on transition, 24:22373
development of, effects of steel technology on, 23:47179
development of, evaluation of competition in industrial, 23:7378
development of, future prospects for, 22:20843
development of, history of, 21:19403
development of, in France and USA, 21:12254
development of, nuclear safeguards problems from, 21:35584 (P-3589(RAND))
development of, outlook for 1970 to 1985, 24:13530
development of, positive aspects of, 25:57004
development of, problems in Canada of, 25:54009 (70-CNA-654)
development of, progress review on, 24:31039
development of, prospects for worldwide, 25:56999
development of, review, 21:15684
development of, review and predicted growth of in U. S, 21:7906
development of, review during 1969 of world-wide, 24:26692
development of, review of, 23:13422
development of, review of, 24:4031
development of, review of, 24:18599
development of, review of, 24:46009
development of, review of, 21:42773
development of, review of Japanese, 25:23241
development of, review of progress on, 23:34887
development of, review of U. S. program for, 25:39210 (A/CONF.49/P-49)
development of, review of U.S, 24:1972
development of, review of worldwide, 22:25032
development of, review of worldwide, 24:52763
development of, review of worldwide, 21:2845
development of, review to 1969 of world-wide, 24:26693
development of, summary of world-wide, 23:19474
development of, summary of world-wide, 23:21459
development of, summary of worldwide, 21:23658
development of, technical and economic aspects of, 22:18500
development of, technical and economic factors influencing worldwide, 22:46931
development of, technical, economic, and political aspects of future, 22:39822
development of, use of digital computers for optimum forecast, 23:11126
development of, worldwide trends in, 23:15561
development on U. S. west coast of, economics aspects of future, 23:19467
development potential of high-temperature gas-cooled, 22:39820
development predictions in U.S. during 1970 to 2020, systems analysis for optimum economic, 25:10095 (WASH-1098)
development program for 1000 MW(e) heavy water-moderated organic-cooled, description of, 22:50741 (WASH-1083)
development program for 300 MW(e) and 1000 MW(e) liquid sodium-cooled fast, description of, 23:11173
development program for advanced and high-temperature gas-cooled, description of, 23:11169
development program for Austria, description of optimum, 22:48691
development program for Canada heavy water-moderated water-cooled boiling natural uranium-fueled, description of, 23:2003
development program for Canada, analysis to 1978, 22:42226
development program for Canada, description of AECL research in, 22:42151 (AECL-3067, pp 35-43)
development program for Canada, description of AECL participation in, 22:42148 (AECL-3067)
development program for Canada, description of AECL research in, 22:42354 (AECL-3067, pp 21-8)
development program for Canadian, description of, 22:32902
development program for CIRENE, 22:3853
development program for European fast, economic analysis of, 22:35496
development program for fast breeder, analysis of optimum, 22:37464
development program for fast liquid sodium-cooled, analysis of uncertainties for physics parameters and fuel costs in, 22:50733 (GEAP-5635)
development program for German 300 MW(e) sodium-cooled, 22:53336
development program for German liquid sodium- and steam-cooled fast breeder, description of optimum economic, 22:37461
development program for Germany fast breeder, description of, 22:48670
development program for high temperature gas cooled, ORNL April to September 1969, 24:24834(R) (ORNL-4508)
development program for high temperature gas-cooled, review of ORNL April to September 1968, 23:28486(R) (ORNL-4353)
development program for Japan, description of, 22:46972
development program for large closed-cycle pressurized-water, summary of reports on, 23:13419 (WCAP-3269-75)
development program for single- and dual-purpose desalination—power, analysis of optimum, 22:35582
development program for South Africa, analysis of optimum, 22:44834 (PEL-175-E)
development program for South Africa, description of, 22:39837
development program for South African liquid sodium-cooled heavy water-moderated natural uranium-fueled 1000 MW(e), description of, 22:27421
development program for Sweden, description of, 22:48690
development program for U. S. 1000 MW(e), analysis of optimum economic, 22:48703
development program for U. S. Pacific Northwest, analysis of economics of, 22:39818
development program for U. S., analysis of, 22:48702
development program for U. S., JCAE hearings on 1969, 22:35521
development program for U.K. dual-purpose desalination, description of, 22:42352
development program for U.K., description of, 22:44859
development program for U.S. fast breeder, description of, 22:35541
development program for U.S., review of past and present, 22:39809
development program for USSR, description of, 22:35480
development program for Western Europe, discussion of, 22:48697
development program for Yugoslavia, analysis of optimum economic, 22:48667
development program for, description of AECL, 22:42400
development program in Belgium for fast, review of 1966, 23:28562 (NP-17819, Chap. 1)
development program in France of heavy water-cooled and -moderated, description of, 22:30251
development program in Germany, 22:46933
development program in India for heavy water-moderated, description of, 22:30242
development program in Italy for, description of, 23:15575
development program in Japan for Tokyo area, 23:13433
development program in Japan of prototype boiling heavy water-moderated, 23:17181
development program in Japan of prototype liquid sodium-cooled fast breeder, 23:17181
development program in Japan of water-cooled heavy water-moderated 200 MW(e) thermal, description of, 22:30243
development program in Poland for, description of, 22:42227
development program in South Africa, 23:13431
development program in the United Kingdom, 22:6053
development program in U. S. for fast breeders, 23:43089
development program in U. S. of heavy water-moderated organic-cooled 1000 MW(e), 22:30244
development program in U.K. for fast breeder, description of economic, 23:21457
development program in U.K. for fast breeder, review of, 24:31036 (TRG-Report-1925)
development program in US of heavy water-moderated water-cooled, description of, 22:30245
development programs for advanced thermal, steam-cooled and liquid sodium-cooled fast breeder, comparison of, 23:11176
development programs for American, survey of, 22:37474
development programs for Canada, U.K., and U.S.A., economics of, 22:42149 (AECL-3067, pp 1-19)
development programs for Europe, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
development programs for fast breeder, economics of world-wide, 22:37448 (NP-17521)
development programs for Great Britain, description to 1985 of, 22:42231
development programs for heavy water moderated, review of, 24:18571
development programs for high temperature gas-cooled, description of, 22:48689
development programs for U. K., effects of engineering on, 22:53258 (AERE-PGEC/L-194)
development programs for Western Europe, forecast of 1970 to 2010, 23:17166 (NP-17767)
development programs in France, analysis of independent and joint, 23:33006
development programs in Japan, U.K., and U.S., description of, 23:15574
development programs in U. S. during February to March 1970, 24:31090
development programs in U.S.S.R. for graphite-moderated, boiling, and pressurized-water fast, review of, 23:17172
development programs of East Europe, description of present and planned, 22:53301
development progress for AGR-type, 23:15563
development progress in Italy, 22:46935
development projects for German, schedules and review of, 23:23833
development prospects of Western European, 22:46965
development status and economics of high-temperature, 21:15746
development status and prospects in Japan, 22:46934
development status in Italy, 21:17486
development status of fast breeder, discussion of, 21:25646
development status of fast breeder, review of, 23:21453
development trends in carbon dioxide-cooled, 22:6062
development with integrated primary circuits, technical, economic, and safety aspects of, 23:13426
development world-wide of U.S.-fueled, prediction for 1968 to 1975, 23:19442 (ORO-665, pp 31-71)
development, economical and technological aspects of European, 1965-1975, 21:15690
Doppler coefficient for carbide fueled fast, statistical uncertainty in calculations of, (T), 24:24813
Doppler effect in fast, effects on design and safety characteristics of, (T), 22:20852
dry-out margins for superheating heavy water moderated boiling, analysis of optimum economic, 23:37563 (RD/B/N-1285)
dynamic analysis of, use of pseudo-random binary perturbations for correlation and cross correlation method of, 23:28452
dynamic behavior of fast sodium-cooled, analysis of, 22:46958
dynamic behavior of liquid metal cooled fast, computer program for feedback control theory for small signal, 23:34899 (ANL-7529)
dynamic behavior of natural circulation boiling, use of digital input to analog system for simulation of, 22:35482
dynamic behavior of, method of stochastic oscillator for studies of, 23:11185 (RCN-98, pp 459-91)
dynamic characterisitcs for self-regulated 200 kW mockup, effects of natural and forced insulation in one- and two-circuit systems on, 23:2007 (FEI-114)
dynamic characteristics of self-regulating, with natural convection cooling, (T), 25:23260
dynamic characteristics of, effects of power demand and control system variations on, (T), 25:18119
dynamics analysis of, computer program for calculation of frequency responses in, 22:16107 (AEEW-R-539)
dynamics for coupled core, calculation of domain asymptotic stability of nonlinear space-time, (T), 25:57188
dynamics for space vehicle thermionic, one diode model analysis of, (T), 24:33460
dynamics of 300 MW(e) liquid sodium cooled fast breeder, time discontinuous approximation analysis of external actuated excursion effects on, (T), 24:18615 (KFK-964, Sect. 1.1-12)
dynamics of high temperature gas cooled, COSTANZA BBK computer program for one dimensional, 24:24811 (EUR-4410)
dynamics of high temperature, computer programs for one dimensional, 24:16172
dynamics of in-core thermionic, analytical model of transient effects on, (E/T), 25:39323
dynamics of moderated thermionic, with heat pipe radiator, (T), 24:38616
dynamics of slab fueled, partial differential equations solution for, 23:24004
dynamics of two-circuit self-regulating, with natural circulation cooling, (T), 24:47827
dynamics of two-circuit, model for analysis of self-regulating, 24:47826
dynamics of, calculation of space dependent, (T), 25:60240
dynamics of, formalism for analog computer simulation of, 24:38498
dynamics of, hybrid computer simulation of, (E/T), 23:49552
dynamics of, mathematical model for use of low frequency noise for determining, 23:11183 (RCN-98, pp 397-408)
dynamics of, nodal approach for model analysis of, (T), 23:43095 (INR-1032)
dynamics of, noise analysis methods for, 25:57023
earthquake resistance studies in Japan for, review of, 23:11262
earthquake resistant design criteria for, 23:32974 (CONF-681101-35)
earthquake-resistant concept for, description of floating breakwater, 22:32793
economic analysis of, (T), 22:1770 (ORNL-4172)
economic analysis of, for agro-industrial complexes, 23:4172 (ORNL-4292)
economic analysis of, for agro-industrial complexes, 23:11167 (ORNL-4290)
economic analysis of, for agro-industrial complexes making steel and acetylene, 23:5993 (ORNL-4294)
economic and technical status and potential of light water, summary of, 22:44841 (WASH-1082)
economic aspects in Argentina, 22:3840 (NP-16988)
economic aspects in developing countries of small and medium output, 25:28540
economic aspects of, 23:31102 (CONF-680810-, pp 3-28)
economic aspects of 600 MW(e) AGR-type, 22:6057
economic aspects of CIRENE, 22:1810
economic aspects of dual purpose, 21:40665
economic aspects of European high-temperature gas-cooled, 22:6041
economic aspects of integrating dual-purpose power and desalination, into electricity supply systems, 23:49641
economic aspects of, effects of sale of fission products on, 22:119
economic characteristics of 1000 MW(e) fast sodium-cooled, 22:20851
economic comparison of AGR and light water, 22:6059
economic comparison of pressurized-water, with conventional power plants, 22:30185
economic considerations for Yugoslav, 22:16167(T) (JPRS-44180)
economic development of dual-purpose power and desalination, 23:49640
economic development of, survey of, 23:37460
economic evaluation activities at BNL during 1967, 22:39893 (BNL-50082, pp 25-6)
economic evaluation for 300 MW(th) dual-purpose desalination and, 22:44858
economic evaluation of European, 22:25000

economic evaluation of, detailed guide for, 23:25999 (NUS-531)
economic evaluations for 1000 MW(e) heavy water-moderated, capital and unit energy, 22:39736 (BNWL-802)
economic evaluations of CIRENE type, effects of bred plutonium on, 24:9109 (CONF-681219-1)
economic feasibility for Southern California dual-purpose, 22:10020
economic optimization of dual-purpose power and desalination, effects of brine temperature on, 23:49636
economic optimization of dual-purpose power and desalination, 23:49634
economic optimization of dual-purpose power and desalination, effects of brine temperature on, 23:49637
economic optimization of fast, effects of breeding ratio, thermal efficiency, and power costs on, 23:52371(T) (JPRS-48331, pp 426-37)
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economic trends in, 22:16210
economics analysis of, CLOTHO code for communicating burnup data to codes for, 22:46861 (BNWL-770)
economics and feasibility of, in Philippines, 21:7892 (ORNL-P-2536)
economics and management of, 21:19398
economics and performance of large, 21:15699
economics and site selection of Yugoslav, 21:19409
economics effects on electricity supply industry in Germany, 24:30964
economics for agro-industrial complex, 25:48322 (ORNL-TM-3444)
economics for construction and operation of, competition with oil power plants, 23:7371 (NP-17703)
economics for desalting, 21:23705(R) (ORNL-4087)
economics for Europe dual-purpose multiflash desalination, analysis of optimum, 22:44879 (EUR-4034)
economics for fast breeder, in New England to 1985, 21:46862 (NYO-3530-1)
economics for heavy water moderated, 24:18571
economics for high temperature gas cooled dual purpose desalination, analysis of optimum, 24:38618 (JUL-656-PA)
economics for industrial power and steam production, (T), 25:18220
economics for molten-salt breeder 1000 MW(e), effects of graphite performance on, (T), 23:15602 (ORNL-TM-2136)
economics for multiple application ammonia producing and desalting, design requirements for optimum, 24:18509 (NP-18089)
economics for nations with limited fuel resources, 21:38598
economics for natural uranium fueled heavy water moderated CIRENE-1, calculation of optimum, 24:7054 (CISE-R-118)
economics for power production and desalination in India, 24:46100 (BARC-480)
economics for seawater desalination of dual-purpose, 24:13622
economics for small and medium, comparison with oil-fired plants for underdeveloped countries, 23:21502
economics for small dual purpose desalination, 25:18215
economics for use in desalination and agro-industrial complexes in Israel, 25:54231 (A/CONF.49/P-18)
economics for water cooled dual purpose process heat, for urban heating and power, 25:10094 (ORNL-HUD-14)
economics for, comparison of operation and maintenance costs, 25:5903
economics for, comparison with fossil fuel plant of, 24:13557
economics for, comparison with fossil-fueled plant of, 23:19442 (ORO-665, pp 31-71)
economics in agro-industrial complexes, 23:37676
economics in agro-industrial complexes, 24:41116 (ORNL-TM-2944)
economics in Austria of first, factors affecting, 23:13375
economics in Canada of heavy water moderated, effects of heavy water characteristics on, 24:11116
economics in Europe of, review of, 23:31137
economics in expanding power generation complex, long-term, 24:16204 (JUL-590-RG)
economics in Germany for iron production and industrial complexes, 24:11205
economics in Great Britain, 21:42746
economics in India, 21:42739
economics in India for agro-industrial complex, 25:25845 (BARC/INF-2)
economics in India for heavy water moderated medium output, 25:28580
economics in India of dual purpose, for agro-industrial complexes, 25:1805
economics in Italy, effects of fuel cycle and design parameters on, 24:16146
economics in mixed systems, strategies for optimization of, (T), 25:60103
economics in northeastern U. S. of, effects of pumped storage hydroelectric plants on, 23:31142
economics in Puerto Rico for agro-industrial complex, 25:53921 (TID-25602)
economics in Puerto Rico for agro-industrial complex, 25:53922 (TID-25603(Vol.1))
economics in Puerto Rico for industrial applications of process heat, programming for optimum, 25:10291 (TID-25630)
economics in South Africa, comparison of enriched and natural uranium systems, (T), 25:20748 (PEL-199)
economics in U.K. of, 23:28499
economics in U.K. of, effects on coal industry of, 23:15573
economics in U.S.S.R. for triple purpose desalination and industrial heat, analysis of optimum, 24:18468(T) (AEC-tr-6991)
economics in U.S.S.R. of 5 to 300 MW(t), 24:16076(T) (LIB/Trans-192)
economics in USSR, 24:33191
economics of, 21:21664
economics of, 21:21669
economics of, 21:23651
economics of, 22:5936(T) (JPRS-43265)
economics of, 21:23640
economics of, 22:3811 (AECL-2946)
economics of, 21:46899
economics of 10,000 MW(t) sodium-cooled fast breeder, 21:40532 (ANL-7290, pp 216-26)
economics of 1000 MW(e) high temperature gas cooled, review of conceptual, 24:11155 (WASH-1085)
economics of 1000 MW(e) water cooled and 1060 MW(e) boiling, effects of site location on, 23:31100 (BNWL-960)
economics of 1000 MW(e), analysis of ceramic fuel LMFBR, 22:18517
economics of 1000 MW(e), comparison with long haul coal plants of, 23:49528
economics of 25 to 100 MW(e), assessment of, 21:23597 (COO-284(Vol.3))
economics of 600 MW(e) twisted tape boiling water, (T), 22:9996(R) (EUR-3651)
economics of 750 Mgd-1870 MW(e) dual-purpose power-desalination design concept, 23:9178 (K-D-2122)
economics of advanced converters, tables of capital cost estimates for, 21:19384 (ORNL-TM-1773)
economics of advanced, applied to utility systems, 21:2851
economics of AGR and SGHW type, for dual-purpose power and desalination plants, 23:21539 (NP-17802, pp 145-62)
economics of AGR and SGHWR types, for dual purpose power and desalination, 24:13621
economics of agro-industrial complexes, effects of chemical recovery from waste brines on, 24:29072
economics of agro-industrial complexes, plant concept for demonstration of, 24:29071
economics of and requirements for small, worldwide, 21:38600
economics of breeder, BAKO computer program for calculating, 22:16154 (KFK-644)
economics of breeder, in 1986—2005, 22:16219
economics of British, 21:27732
economics of Canadian, program for, 21:30085 (AECL-2886)
economics of CIRENE concept, 21:23652
economics of combination fossil-fuel-fired superheater and, 22:25035
economics of Czechoslovak A-1, 22:3850 (ZJE-1-67)
economics of different types of, method for calculation of, 22:1815
economics of dual purpose desalination, 25:46322
economics of dual purpose desalination plants, method for calculation of, 25:23377
economics of dual purpose desalination plants, optimization of, (T), 25:23378
economics of dual purpose desalination, analysis of optimum, 25:18218
economics of dual purpose desalination, at power levels up to 500 MW(e), 25:54236 (A/CONF.49/P-371)
economics of dual purpose desalination, for coastal areas of Pakistan, 25:54234 (A/CONF.49/P-299)
economics of dual purpose power and desalination, in Brazil, 23:43185 (CONF-670338, pp 57-81)
economics of dual purpose power and desalination, methods for calculation of, 24:47919
economics of dual purpose power and desalination, predictions of future, 23:43184 (CONF-670338, pp 49-55)
economics of dual purpose power-desalination, in Lima, Peru, area, 22:44880 (NP-17508)
economics of dual purpose process heat and, (T), 25:3914
economics of dual purpose process heat and, for chemical production and desalting, 25:54244
economics of dual purpose space heating, 25:53894 (A/CONF.49/P-322)
economics of dual purpose, for alumina and aluminum production, 24:18751
economics of dual purpose, for desalination and aluminum production, 24:18750
economics of dual purpose, for desalination and electricity production in Spain, 24:52981
economics of dual purpose, for industrial power and steam production, 24:4112
economics of dual purpose, for industrial power and steam production, 24:4115
economics of dual purpose, for industrial power and steam production, 24:4111
economics of dual purpose, for power and desalination, 24:46103
economics of dual purpose, for Puerto Rico agro-industrial complex, 25:48323 (ORNL-TM-3445)
economics of dual purpose, in agro-industrial complexes, (T), 25:26053
economics of dual purpose, in central heating stations, 25:57135
economics of dual-purpose advanced steam-generating and power, 22:42350 (TRG-Report-1691)
economics of dual-purpose chemonuclear, 21:8116 (BNL-50006)
economics of dual-purpose desalination, 21:15681
economics of dual-purpose desalination, 21:40632
economics of dual-purpose desalination,, 22:25030
economics of dual-purpose power and desalination, with co-production of anhydrous ammonia, 23:49644
economics of dual-purpose power and desalination, for southwest U. S.—northern Mexico area, 23:49617
economics of dual-purpose power and desalination, in industrial complex for Israel, 23:49647
economics of dual-purpose power and desalination, in the Republic of Singapore, 24:4110
economics of dual-purpose power and desalination, for the Catalonia region of Spain, 23:49619
economics of dual-purpose power and desalination, with combination vapor-compression and multi-stage-flash evaporators, 23:49638
economics of dual-purpose power-desalination, 21:38652
economics of dual-purpose power-desalination, 23:13563
economics of dual-purpose power-desalination, (T), 22:35580
economics of dual-purpose power-desalination, (T), 22:35586
economics of dual-purpose power-desalination, based on AGR and SGHWR systems, 22:30294
economics of dual-purpose power-desalination, effects of water-power ratios and dual desalination processes on, 22:30292
economics of dual-purpose power-desalination, effect of plant parameters on, 23:13562
economics of dual-purpose power-desalination, for Fortaleza, Brazil, 22:22795 (NP-17406)
economics of dual-purpose power-desalination, for production of ammonium nitrate from electrolytic hydrogen, 22:47002 (ORNL-TM-2202)
economics of dual-purpose power-desalination, in France and Italy, 23:15697 (EUR-4090)
economics of dual-purpose power-desalination, in integrated systems, 23:13561
economics of dual-purpose power-desalination, in U.S.S.R, 23:15699
economics of dual-purpose power-desalination, parameter selection method for analysis of optimum thermal, (T), 23:4399
economics of dual-purpose power-desalination, review of, 21:35660
economics of dual-purpose power-desalination, socio—economic method for estimation of, 22:22794 (NP-17405) .
economics of dual-purpose power-desalination, with both flash evaporation and electrodialysis desalting plants, 22:22793 (NP-17404)
economics of dual-purpose process heat and, 22:16232
economics of dual-purpose process heat and, for metallurgical industries, 22:10054
economics of dual-purpose process-steam, 22:39738 (CONF-671103-6)
economics of dual-purpose, for desalting seawater, 21:12508
economics of dual-purpose, for power production and municipal waste water distillation, 23:23991 (ORNL-TM-2547)
economics of dual-purpose, for power production and desalination, 24:29068
economics of dual-purpose, for power production and desalination, 24:29069
economics of dual-purpose, for production of fresh water and electric power, 23:13933
economics of duel purpose power and desalination, in Australian agro-industrial complexes, 24:18749 (NP-18147)
economics of epithermal breeder, neutron and monetary, 22:9991 (BNL-10809)
economics of European, 22:3866
economics of fast and heavy water moderated, comparison of, 24:29024 (AECL-3066)
economics of fast breeder, BAKO code for, 22:32764(T) (EURFNR-459)
economics of fast breeder, effects of blanket management on optimum, 23:28500
economics of fast breeder, effects of fuel reprocessing time and thermal efficiency on, 24:11145
economics of fast breeder, predictions of future, 23:15651
economics of fast, effects of neutron data uncertainties on, (T), 23:5779
economics of fast, in mixed electrical generating systems with light water reactors, (T), 25:57061 (MLM-1851)
economics of fast, prediction to year 2000 of French, 21:42749
economics of first-generation high temperature gas cooled, for use in developing countries, 24:29027
economics of fuel cycle in 1000 MW(e) sodium cooled fast, effects of plutonium composition on, 22:5922 (EURFNR-399)
economics of fused salt breeder, 23:33031
economics of future, DAEDALUS code for linear programming simulation of, 22:42165 (BNWL-796)
economics of gas cooled fast breeder, effects of fuel element thermal limits on, 25:5902
economics of gas cooled, trends in optimization of, 24:24859
economics of gas-cooled heavy water-moderated, in Czechoslovakia, 22:50747 (ZJE-26)
economics of gas-cooled, using helium turbines, (T), 25:1853
economics of German water-moderated thermal, 22:48709
economics of Great Britain and United States, comparison of, 22:14223
economics of heavy water moderated, predictions of future, 23:37443 (AECL-3369)
economics of heavy water moderated-natural uranium fueled, 22:14164
economics of high temperature gas cooled, in closed cycle gas turbine power and desalination plants, 23:49628
economics of high temperature gas cooled, in closed cycle gas turbine power and desalination plants, 23:49631
economics of high temperature gas-cooled, in West German utility system, (T), 22:35526
economics of high-temperature gas-cooled, 21:17479
economics of HTGR type, effects of power density and cooling system pressure increase on, (T), 24:41030 (EUR-4328)
economics of integrated gas-cooled, effects of design parameters on, 23:28498
economics of integrated systems of fast breeder and thermal, 24:11137

economics of integration in power production systems, method for analysis of investment decisions for, 23:13517
economics of investments in, 21:38444 (CONF-670214-1)
economics of large agro-industrial complexes, cost-benefits analysis of, 24:29070
economics of large dual-purpose power-desalination, 23:13560
economics of large dual-purpose, for industrial process plants, 22:22796
economics of large systems containing fast, 23:52308(T) (JPRS-48330, pp 39-108)
economics of light-water moderated, epithermal-breeder, 21:38575
economics of Marble Canyon, comparison with hydroelectric production, 21:13939 (AD-629447)
economics of maritime, 21:34147 (NUS-339)
economics of molten salt fueled, 21:19414
economics of natural uranium graphite, 21:27752
economics of operation of, analysis of, 22:14205
economics of operations of, effects of cross-section uncertainties on,, 22:24973 (ORNL-TM-2157)
economics of pressurized water, effects of fuel cycle on optimum, 23:28496
economics of pressurized water, for use in dual-purpose power and desalination plants, 23:49624
economics of pressurized-water thermal, neutron data requirements for analysis of, (T), 23:6004
economics of pressurized-water, in dual-purpose power-desalination plants, 22:50786
economics of proposed 300 MW(e) Austrian, 22:14204
economics of prototype, in German power system development, 24:22419
economics of self-sustaining mixed fast and thermal systems, (T), 25:3888 (DP-Report-581)
economics of single purpose and dual purpose, for separated power and water load supply, 24:43830 (ORNL-TM-2899)
economics of small, 21:12159
economics of sodium cooled, effects of fuel cycle on, (T), 24:29026
economics of steam cooled fast, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
economics of SURFSIDE concept for desalination and power and isotope production, 23:43182 (CONF-670338, pp 19-33)
economics of Swiss, mathematical optimization of, 21:25643
economics of thermal, review of, 25:28712
economics of U. S. light water, effects of fuel costs on future, 23:13518
economics of U. S., 1964 JCAE hearings on, 22:14220
economics of U.S., review of future, 25:18149
economics of various type, comparison of, 22:24996
economics of various types, 21:27707
economics of various types, comparison of, 24:18542
economics of various types, in developing countries, 24:28914
economics of various types, nomographs for fast comparison of, 23:34909
economics of water cooled, effects of design modifications and fuel cycle management procedures on, 25:5900
economics of water cooled, trends in capital cost aspects of, 24:33190 (WASH-1150)
economics of water-cooled and water-moderated, review of, 22:12049
economics of world-wide, comparison of competitive, 23:26015
economics of, bibliography on, 23:9180 (PEL-167)
economics of, bibliography on, 24:11103 (STI/PUB-21/30(Vol.2))
economics of, comparison for various types, 21:15693
economics of, comparison of United States and United Kingdom, 21:46897
economics of, comparison with fossil fueled power plants of, 23:34884
economics of, effects of ceramic fuel element performance on, 25:20739
economics of, effects of desalination on, 22:6038
economics of, effects of district heating on peak load operation, 24:29073
economics of, effects of fuel costs and integrated system planning on, 23:13512
economics of, effects of reactor type and power conversion system design on, (T), 25:20749
economics of, effects of siting and local conditions on, 21:30105 (BNWL-CC-978)
economics of, effects of siting on, 21:31902(R) (BNWL-367)
economics of, effects of thermionic topping on, 23:31105 (CONF-690113-2)
economics of, estimates to 1980 of, 23:15648
economics of, handbook for calculation of, 21:27716
economics of, JCAE report on, 22:20878
economics of, justification factors for, 23:49529
economics of, long range planning for optimization of, 24:7072
economics of, methods for calculation of, 24:13507
economics optimization of dual-purpose power and desalination, 23:49629
economy of, DAEDALUS-code for determining linear programming simulation of, 22:42166 (BNWL-796(App.))
effects on environment at Baxley, Georgia, 24:23139(R) (ORO-2412-24)
effects on environment, JCAE hearings on radiation and thermal, 25:6667
effects on nuclear fuel cycle costs and uranium costs, 21:25644
effects on rivers, computer program for calculating thermal, 22:18467
effects on stability of electric transmission line loads in Finland, 23:13387
effects on surface waters, discussion of hearings of policy-forming committee for analysis of thermal, 22:48687
efficiency criteria for fast, 22:39785 (SRARI-P-4)
efficiency criteria for fast, description of, 23:31176
efficiency for electric power generation, predictions of present and future, 22:10904
efficiency of 500 MW(e) graphite-gas, effect of steam cycle characteristics on, (T), 22:30144 (EUR-3892)
effluent discharge from, radiation dose standards for liquid, 24:20587
effluent heat recovery system for, description of low temperature Rankine cycle, 22:27403 (CONF-680204-2)
effluents from boiling water, decontamination systems for gaseous, 25:1902
effluents from U.S., effects on environment of radioactive and thermal, 25:60001
effluents from U.S., effects on environment of radioactive and thermal, 25:60002
effluents from, effects on environment of radioactive and thermal, 24:45899 (CONF-700810-1)
effluents from, environmental effects of, 25:39811
effluents from, guide for monitoring of gaseous and liquid, 21:36322 (BNWL-251(Rev.))
effluents from, research on environmental effects of, 24:46594
effluents from, summary of April 1969 environmental and waste treatment research for, 23:15664
effluents from, tabulation of typical airborne, 23:15662
electric distribution systems for Germany, analysis of optimum economic, 23:11128
electric generators for direct cycle helium cooled, development of hydrostatic gas bearings for, 24:43799
electric generators for, design characteristics of quadrupole, 25:36975
electric power for U. S. aluminum reduction plants from, economics of, 23:9097 (NP-17709)
electric supply system for 600 MW(e), proposed guidelines for internal, 23:47204
electrical energy in Czechoslovakia from, projected requirements for and development of, 23:11166(T) (KFK-tr-274)
electrical safety circuits for, uses of, 21:38595
electrical supply system for, reliability analysis of, 24:50130
electrical systems for, design problems for, 24:47871
electricity from, use in Germany of present networks for distributing, 23:11151
electricity generation from, operating times to achieve design capacity factors for, 23:28386
electricity in Germany from management and distribution of, 23:11149
electricity production and distribution from, optimum development of systems of interconnected grids for, 23:28371
electricity production costs for, effects of capital and Pacific Northwest site costs on overall, 23:28403
electricity production costs from, POWERCO-50 code for, 23:45093 (ORNL-4116)
electricity production from agro-industrial complex, effects of ammonia and phosphoric acid production, 23:11167 (ORNL-4290)
electricity production from different types of, comparison of costs of, 24:16090
electricity production from European, summary by country of 1968, 23:21430
electricity production from fast breeder, economic potential of, 23:43088
electricity production from fast, economic criteria for, 23:31176
electricity production from German, predictions for future and status of present, 23:23834
electricity production from Italian, future requirements for, 23:40318 (NP-17868)
electricity production from, analysis of world 1968, 24:16132
electricity production from, economic effects on fossil fuels of, 23:28380
electricity production from, effects of changing economics on, 24:18521
electricity production from, evaluation for Austrian, 23:5982
electricity production from, method for evaluating cost per kWh of, 24:16208
electricity production from, overall survey and tabular summary of, 24:9064
electricity production from, PACTOLUS code using discounted cash flow method for computing costs of, 24:18471 (BNWL-1169)
electricity production from, political, commercial, and technical aspects of, 23:23834
electricity production from, problems and costs of, 24:16118(T) (AEC-tr-6992)
electricity production from, spin-off advantages from, 24:16129
electricity production from, summary of, 21:46894
electricity production from, UKAEA method for evaluating mixed systems for, 24:16209
electricity production in Austria from, comparison of future load demands and, 23:13374
electricity production in Europe from, summary of 1967, 23:11148
electricity production in remote U.S.S.R. areas from portable, economics of, 23:31219
emergency core coolants for water-cooled, enhanced cooling effects of chemical additive aqueous solutions in, 23:28492 (SNE-50)
emergency core cooling for, description of photographic studies for fluid flow and heat transfer during, 23:37571
emergency core cooling system for pressurized water, effects of partial core blockage on performance of, (E), 24:47881(R) (IN-1320)
emergency core cooling system for water cooled, performance criteria for, 25:54120
emergency core cooling system for water cooled, probability analysis for, 24:50064
emergency core cooling system of high temperature gas cooled, description of ventilated turbine system for, 24:13555
emergency core cooling system of water cooled, reliability analysis of, 25:6038 (RISO-214, pp 91-126)
emergency core cooling system pumps for, design standards for net positive suction head for, 25:28701
emergency core cooling systems for boiling water, effects on fuel element cladding peak temperatures of, (T), 25:44140 (NEDO-10329(Suppl.1))
Emergency Core Cooling Systems for, ACRS comments on Advisory Task Force report on, 22:32900
Emergency Core Cooling Systems for, complete analysis of, 22:32785 (TID-24226)
emergency core cooling systems for, effects of swelling of fuel rod cladding on performance of, (E/T), 24:50128 (NEDO-10208)
Emergency Core Cooling Systems for, evaluation of, 22:32861
emergency core cooling systems of, reliability analysis of, 25:41267 (EUR-4517, pp 85-96)
emergency planning for, 25:39876
emergency power supply for gas cooled, reliability requirements of, 25:34380
emergency power supply systems of, reliability analysis of, 25:41267 (EUR-4517, pp 85-96)
emergency power systems for, reliability testing of fast starting diesel, 23:31171 (CONF-690113-7)
emergency power units for, testing of diesel-electric, 23:2047
engineered safeguards development by Israel Atomic Energy Commission, 24:13576 (IA-1190, pp 257-70)
engineered safeguards for high temperature helium cooled thorium fueled, design requirements of, 25:1914
engineered safeguards for light water cooled, air cleaning methods as, 22:46912 (ORNL-NSIC-25)
engineered safeguards for, design basis for, 24:33282
engineered safeguards for, detailed failure effect analysis for, 22:37440 (HN-192)
engineered safeguards for, digital computer program for evaluating reliability of safety injection, 23:37431
engineered safeguards for, effects on siting of, 22:44841 (WASH-1082)
engineered safeguards for, reference safety analysis report for, 25:54157 (DOCKET-RESARA-4)
engineered safeguards for, review of, 23:37382 (NP-17851, pp 101-26)
engineered safeguards for, STRAP computer program for performance analysis of, 24:22427(R) (IDO-17303)
engineered safeguards for, test intervals for, 25:41307
engineered safeguards of 500 MW(e) heavy water moderated boiling, design requirements for, 24:20584
engineered safeguards of U.S., reliability analysis procedures and programs for, 25:41273 (EUR-4517, pp 269-92)
engineered safeguards of, reliability analysis of, 25:41275 (EUR-4517, pp 421-41)
engineered safety features for light water cooled, analyses of air-cleaning methods as, 23:9189
engineering technology for optimum, description of present-day and future, 23:13414(T) (JPRS-47282)
environment contamination by, calculation of safe limits for carbon-14, krypton-85, and tritium, 24:22844 (SWRHL-82, pp 684-96)
environmental effects of, 24:33224
environmental surveillance studies for, 22:1795
environs contamination by, public health aspects of, 21:18049
equations of motion for circulating fuel, application of Liapunov method to nonlinear models to derive, 22:25031
equipment for, earthquake stress resisting design requirements of Class 1, 25:57108
equipment reliability data collection program for, development and application of, 23:37432
evaluation of advanced converter, technical and economic, 23:37552 (WASH-1087)
evaluation of various types, for Argentina, 22:3841 (NP-16989)
excursions in fast, Bethe-Tait-Method for safety analysis of second, (T), 23:11257 (KFK-813)
excursions in French, simulation of, 21:27717
excursions in liquid sodium-cooled fast, SPES-1 computer program for energy release in uncontrolled prompt critical, 23:23944 (RT/FI-(68)45)
excursions of water cooled, self control of boiling in, (T), 24:43719 (RT/FI-(70)2)
fabrication in Japan of, problems associated with, 22:42280
fabrication of boiling water, description of safety aspects in, 22:30196
fabrication of high-temperature, component state-of-the-art for, 23:15603(T) (ORNL-tr-3010)
failure data on liquid metal cooled, handbook of, 24:22428 (LMEC-Memo-69-7(Vol.1))
failure data on liquid metal cooled, handbook of, 24:22429 (LMEC-Memo-69-7(Vol.2))
feasibility analysis of dual-stream power-desalination HWOCR concept, 22:30296
feasibility of gas cooled fast breeder, with high thermal efficiency, 23:52310(T) (JPRS-48330, pp 164-87)
filter system performance under accident conditions, (T), 21:1171 (ORNL-P-2405)
filters for British, methods for testing of, 22:18461
financing of, effects of local conditions on utility decisions for, 24:16128
fissile materials control at HWGCR-type, IAEA safeguards methods for, 23:50100
fission energy deposition in ORGEL type, calculation of, (T), 23:21463 (EUR-4208)
fission product behavior in water-cooled, analytical model development for prediction of, 22:46910 (ORNL-4265)

fission product containment in accidents, design of expansion vessel for, 21:8001(P)
fission product diffusion from, calculational procedures for, 22:18428
fission product distribution in cooling system of, delayed neutron detection method for measurement of, 23:40362
fission product iodine behavior in containment system atmosphere of, review of, 22:14150(T) (WAPD-Trans-84)
fission product iodine release from, hazards to surrounding populations of, (T), 23:28501 (AHSB(S)R-159)
fission product production in, problems from iodine, 25:57100
fission product release and transport control in sodium-cooled fast breeder, review of methods for, 22:53396
fission product release and transport in liquid metal-cooled fast breeder, state-of-the-art review of, 23:19514 (ORNL-NSIC-37)
fission product release from undersea, evaluation of accidental, 23:52391
fission product release from, assessment of environmental hazards of accidental, 24:39451 (AHSB(S)R-135)
fission product release in high-temperature gas-cooled, FIPER-1 computer program for, 22:50729 (GA-8564)
fission product release in water cooled and moderated, under normal and accident operating conditions, (T), 23:52383 (IDO-17292)
fission product release in, dynamic method for determining in-pile gaseous, 22:32858
fission product removal from containment buildings of, effectiveness of aqueous sprays for, (E), 25:25995
fission product transport in high temperature gas cooled, (E/T), 24:26752 (GA-10073)
fission product transport in water moderated, analysis of coolant loss actuated, (T), 24:36050 (IN-1380)
fission products from, analysis of accident released volatile, 24:52950(T) (LIB/Trans-304)
fission products from, release of gaseous, 25:1915
fission rates in fast, calculations of ratio of photo- and neutron-induced, (T), 23:6002
fluid systems design for gas-cooled fission—electric cell, 21:35647 (N-67-19877)
fuel analysis for converter, 21:31994(P)
fuel assemblies for heavy water-moderated, performance analysis for optimum configuration of uranium oxide (UO_2), 22:30264
fuel assemblies for high-temperature gas-cooled, description of hexagonal-shaped sleeve-covered columnar moderator block with multiple parallel symmetrically-arranged, 22:48671(P)
fuel assemblies for, buckling correction to measured power distribution in, 24:22490
fuel assemblies for, description of perpendicular venturi-type nozzles for hydraulic restrained, 23:9161(P)
fuel assemblies for, design and testing of packaging for shipping of, 25:48863 (CONF-710801-(Vol.2), pp 873-85)
fuel assemblies for, design of clustered fuel-burnable poison pin-type, 21:44897(P)
fuel assemblies for, development and fabrication of spacers for, 24:24843
fuel assemblies for, U.S. standard for identification markings on, 25:43995
fuel assemblies in Canadian heavy water-moderated, analysis of performance of Zircaloy-2 uranium oxide (UO_2), 22:30263
fuel assembly and rod effective resonance integral for CIRENE-type, calculation of uranium oxide (UO_2), (T), 23:6028
fuel assembly for CIRENE-type, measurement in RB-1 of fast fission ratio in uranium oxide (UO_2) multiple rod, 23:6029
fuel blanket for high-temperature gas-cooled 1000 MW(e), analysis of optimum thorium-232, 23:21485 (ORNL-TM-2477)
fuel burnup and management in, analysis of optimum, (T), 23:4252
fuel burnup calculations for gas-cooled heavy water-moderated A2, effects of plutonium-239 and plutonium-240 concentrations on thermal and epithermal spectra and, (T), 23:11186 (UJV-2027)
fuel burnup calculations for, space—time analog model for, 21:31986
fuel burnup in A-2, FPV-3 code calculations of, 23:26050 (UJV-2140-R)
fuel burnup in boiling-water, methods for analysis of, 22:22737
fuel burnup in fast, use of isotopic analyses of irradiated samples of fissile and fertile materials for calculation of, (T), 23:47321
fuel burnup in graphite moderated, analysis of plutonium, (E/T), 23:47202 (CNM-R-2(Vol.3), pp 1713-36)
fuel burnup in pressurized-water, one-group diffusion calculations of, 21:15712
fuel burnup in thermal, Czechoslovak methods for calculation of, 22:22731
fuel burnup in thermal, French studies on, (E/T), 22:22732
fuel burnup in thermal, review of Japanese studies on, 22:22735
fuel burnup in thermal, review of U.S. studies on, 22:22733
fuel burnup in thermal, Swedish calculational methods for, 22:22736
fuel burnup in, determination of plutonium-containing, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
fuel burnup in, economics of, 25:37021
fuel burnup in, economics of, 25:60102
fuel burnup in, effects of stretch-out operation on optimum economic, 25:37031
fuel burnup performance of, analysis of cycle management for optimum, 22:53291
fuel capacities for, computer program projected to 1990, 2000, and 2010, 23:4258

fuel cladding for water cooled, radiation effects on rupture properties of Zircaloy tube, 24:33329
fuel composition for fast, calculation of equilibrium, 23:19497
fuel composition for fused salt fast, 21:4420(P)
fuel consumption by 2000 of U. S. and EURATOM, analysis of, 22:35513
fuel consumption index for, effects of reprocessing and plutonium production on economics of uranium, (T), 23:17193
fuel cost calculations for dual-purpose, 22:3813(R) (AI-CE-54)
fuel costs and requirements for 10,000 MW(e) heavy-water-moderated organic-cooled, 23:13514
fuel costs for, effects of fuel cycle on, 24:11129
fuel costs for, in France, 21:17497
fuel costs in developing countries, factors affecting, 24:29021
fuel cycle analysis and costs for crossed-progeny systems, 21:21670
fuel cycle analysis for civilian, 21:31903(R) (BNWL-CC-500)
fuel cycle analysis of, economic effects of market structure on, 21:40565 (NP-16898)
fuel cycle characteristics of gas-cooled high temperature, analysis of optimum economic, 23:28487 (ORNL-4353, pp 1-109)
fuel cycle component costs for, long-range estimates of time dependent, 25:39265 (A/CONF.49/P-60)
fuel cycle cost analysis for 1000 MW(e) HTGR, equilibrium, 21:13970 (GA-7126)
fuel cycle costs for 600 MW(e), in South Korea, 24:36042
fuel cycle costs for batch refueling in, method for calculation of, 25:31585
fuel cycle costs for light-water, evaluation of, 21:5628 (ORNL-P-2532)
fuel cycle costs for water cooled, future trends in, 24:28913
fuel cycle costs for water moderated, linear programming for optimization of, (T), 25:60104
fuel cycle costs for, computer program calculation of, 25:36862 (BNWL-462)
fuel cycle costs for, descriptions of computer programs for calculating, 24:16194
fuel cycle costs for, effect of load factor distribution on, (T), 24:16205 (SGAE-RT-22/1969)
fuel cycle costs for, effects of local conditions on, 24:16192
fuel cycle costs for, effects of money availability on, 24:33315
fuel cycle costs for, effects of plant loading changes on, 25:36893
fuel cycle costs for, fuel supplier methods for calculating, 24:16195
fuel cycle costs for, methods for international extrapolation of UK, 24:16196
fuel cycle costs predictions to 1980 for US, 24:11121
fuel cycle costs, comparison of high-temperature and breeder, 21:25656
fuel cycle economics, 21:30186
fuel cycle economics during declining capacity factor conditions, effects of fuel management on, (T), 25:41453
fuel cycle economics for, 21:40950 (CONF-670542-, Paper 5)
fuel cycle economics for Cirene type, 24:11140
fuel cycle economics for combination breeder-converter, with crossed progeny fueling, (T), 24:46066
fuel cycle economics for heavy water moderated, 23:21483 (NIJS-P-228)
fuel cycle economics for high temperature gas cooled graphite moderated, 24:11139
fuel cycle economics for high-temperature gas-cooled, 21:38505
fuel cycle economics for liquid metal-cooled fast breeder dual-purpose desalination, analysis of optimum, 22:32910
fuel cycle economics for, computer methods for optimization of, 25:39268 (A/CONF.49/P-75)
fuel cycle economics in, 21:38654
fuel cycle economics in Argentina, methods of calculation of, 22:3931 (NP-16987)
fuel cycle economics in Czechoslovakia, forecasts from 1970 to 1990 of, 24:11124
fuel cycle economics in Japan, 24:11135
fuel cycle economics of, 21:13978 (INR-723/IX/R)
fuel cycle economics of beryllium oxide—graphite moderated pebble bed, 24:11138
fuel cycle economics of fast breeder, methods for calculating, 24:11132
fuel cycle economics of graphite gas natural uranium, 22:24982
fuel cycle economics of light and heavy water boiling, comparison of, 24:11127
fuel cycle economics of various types of, methods of optimizing, 24:11128
fuel cycle for 1000 MW(e) high temperature gas cooled, calculation of optimum economic, 24:5501 (ORNL-TM-2704)
fuel cycle for 300 to 500 MW(e) boiling, 25:28721
fuel cycle for beryllium oxide—moderated, pebble bed, thorium, 21:1195
fuel cycle for boiling, MINFUL computer program for optimum economic scatter loading management of, 23:49665
fuel cycle for Czechoslovakian, economics of uranium, 22:50746 (ZJE-25)
fuel cycle for fast breeder and thermal converter, calculation of plutonium, 25:26068
fuel cycle for fast breeder, analysis of optimum, (T), 23:33055
fuel cycle for fast breeder, burnup model for optimum, 23:37419
fuel cycle for fast breeder, reactivity worth calculations for optimum, 23:23875(R) (BAW-3867-6)

fuel cycle for fast, effect of burnup model parameters on economics of, (T), 24:46065
fuel cycle for heavy water moderated and high temperature gas cooled, analysis of optimum economic, 23:49563 (CONF-681219-2)
fuel cycle for heterogeneous high-temperature, analysis of optimum economic, 23:9179 (NP-17696)
fuel cycle for high temperature gas cooled, analysis of optimum economic, 23:37516
fuel cycle for high temperature gas cooled, characteristics and cost analysis of, 24:16197
fuel cycle for high temperature gas cooled, comparison of design studies for optimum, 23:37508
fuel cycle for high temperature gas cooled, development of thorium, 25:1891
fuel cycle for high temperature gas cooled, process development for optimum economic, 23:37513
fuel cycle for high temperature gas cooled, statistical analysis of optimum economic, 25:6024
fuel cycle for large liquid sodium cooled fast breeder, effects of sodium void coefficient on optimum economic mixed, 23:43100
fuel cycle for liquid metal cooled fast breeder, calculation of optimum economic, 23:49565 (LA-4187)
fuel cycle for pressurized water, analysis of optimum economic, 24:7140
fuel cycle for pressurized-water, analysis of economics of thorium, 22:32908
fuel cycle for pressurized-water, effect of uranium-236 and neptunium-237 on value of feed uranium in, 22:37446 (MIT-2073-6(Vol.1))
fuel cycle for pressurized-water, effect of uranium-236 and neptunium-237 on value of feed uranium in, 22:37447 (MIT-2073-6(Vol.2))
fuel cycle for pressurized-water, effects of neptunium-237 and uranium-236 on, 22:32907
fuel cycle for single-purpose desalination of uranium oxide (UO_2)-fueled pressurized-water, analysis of optimum economic, 23:13557 (ORNL-TM-2046)
fuel cycle for U. S., computer program for optimization of, 25:36886 (ORNL-TM-3223)
fuel cycle for U.K., review of services in, 24:13552
fuel cycle for water cooled, cost analysis of, 25:10100
fuel cycle for water cooled, future cost trends of, 24:29032
fuel cycle for, analysis of optimum economic, 24:33314
fuel cycle for, calculation of fuel exposure distribution for, (T), 23:47314 (CNM-R-2(Vol.3), pp 1398-1406)
fuel cycle for, calculation of optimum 60 year, 25:3881
fuel cycle for, computer program for optimum, 24:7014
fuel cycle for, development of optimum economic, 25:57062 (ORNL-4682, pp 240-1)
fuel cycle for, development of thorium, 25:1890
fuel cycle for, economics of, 24:38389 (CONF-700317, Paper 19)
fuel cycle for, economics of plutonium, 21:25741 (SGAE-RT-10/1967)
fuel cycle for, economics of thorium, 24:2001 (WASH-1097)
fuel cycle for, effects of European reprocessing costs on future, 25:1971
fuel cycle for, effects of plutonium utilization on economics of, 24:29022
fuel cycle for, technology for development of economic, 25:18054
fuel cycle for, utility and fuel supplier management responsibilities for, 24:18529
fuel cycle in Japan, establishment of domestic, 24:24731
fuel cycle in Japan, plutonium effects on economics of, 24:31075
fuel cycle in U. K. of 1000 MW(e) water-cooled thermal, gas-cooled thermal, and fast, performance comparisons for, 22:46909 (NP-17599, pp 30-40)
fuel cycle in water-cooled, financial aspects of, 22:16227
fuel cycle management for 1000 MW(e) Pickering-type heavy water-moderated, computer program analysis of optimum economic, 22:53264 (BNWL-833)
fuel cycle management for thermal and fast breeder, mathematical model analysis of, (T), 24:18769
fuel cycle management for water cooled, multilevel data-based computer programs for, 25:54129 (A/CONF.49/P-293)
fuel cycle management for, analysis of optimum economic, 25:5897
fuel cycle management for, analysis of optimum economic, 23:49525
fuel cycle management for, calculation of optimum, 24:28912
fuel cycle management for, calculation of optimum economic, 25:5898
fuel cycle management for, effective planning of overall operations for optimum economic, 25:53954 (A/CONF.49/P-764)
fuel cycle management for, effects on actinide production of, 24:18666
fuel cycle management for, integration model analysis for optimum economic, 25:39172 (A/CONF.49/P-42)
fuel cycle management for, method for optimum, 24:31085
fuel cycle management for, procedures and strategy for optimum economic, 25:28543
fuel cycle management for, technical and economic factors of, 25:8082
fuel cycle management in Australia, analysis of optimum economic, 25:34382 (CONF-701123-, Paper 8)
fuel cycle management in U. S., methods of in-reactor, 25:39267 (A/CONF.49/P-74)
fuel cycle management in, optimization of, 25:53937 (A/CONF.49/P-390)
fuel cycle management procedures for, effects of reactor type on, 25:3867 (DP-Report-476)
fuel cycle management programs for, economic effects of, 24:7046
fuel cycle parameters for on-load refueled thermal converters, (T), 25:3887 (DP-Report-575)
fuel cycle performance for 1000 MW(e) heavy water-moderated, analysis of optimum economic, 22:30255

fuel cycle performance for heavy water-cooled and -moderated, analysis of optimum, 22:30252
fuel cycle performance for heavy water-cooled and -moderated, analysis of long-term optimum economic, 22:30254
fuel cycle performance for heavy water-moderated boiling and pressurized, analysis of optimum, 22:30260
fuel cycle performance for heavy water-moderated water-cooled 500 MW, analysis of optimum economic, 22:30261
fuel cycle performance in U. S. of heavy water-cooled and -moderated, analysis of optimum economic, 22:30253
fuel cycle performance of heavy water-moderated organic-cooled 1000 MW(e), analysis of economic thorium oxide (ThO_2), (E/T), 22:30247
fuel cycle requirements in western Europe, effects of development strategies on, (T), 25:28714
fuel cycle schedules to 1995 of, analysis of optimum, 22:35535
fuel cycle, 1966 conference on thorium, 22:24934 (CONF-660524)
fuel cycles economics for, effects of burnup on, 23:28384
fuel cycles for 1000 MW(e) sodium—cooled fast breeder, economics of nitride, (T), 22:22659 (BNWL-606)
fuel cycles for Canada, analysis of optimum economic, 22:42154 (AECL-3067, pp 61-4)
fuel cycles for CIRENE type, economic and technical evaluation of, 23:52358
fuel cycles for fast, economics of short, 24:11144
fuel cycles for future US, economics of, 22:23175
fuel cycles for gas cooled and water cooled, economic comparison of, 23:40372
fuel cycles for high temperature gas cooled, economics of plutonium, 25:60097 (ORNL-TM-3525)
fuel cycles for high temperature gas cooled, economics of plutonium, 24:40996 (DP-Report-265)
fuel cycles for high temperature gas cooled, market estimates in U.S. for thorium, 25:48252 (CONF-680989-, pp 23-6)
fuel cycles for high temperature, evaluation of, 22:1811
fuel cycles for high-temperature gas-cooled, 21:15794
fuel cycles for high-temperature gas-cooled, description of optimum uranium-233, 22:35497
fuel cycles for high-temperature helium-cooled, 21:17447 (GA-7482)
fuel cycles for homogeneous and heterogeneous gas cooled high temperature, analysis of optimum economic, 23:37517
fuel cycles for Japanese boiling, analysis of fuel sources and economics for, 22:32849
fuel cycles for Japanese, analysis of optimum, 21:17487
fuel cycles for pressurized water, economics of thorium—uranium, 24:11122
fuel cycles for process heat, economics of thorium, 25:54125 (A/CONF.49/P-157)
fuel cycles for Swiss, economic aspects of, 25:23304
fuel cycles for thermal, effects of neptunium-237 and uranium-236 on value of feed uranium in, (T), 22:46903 (MIT-2073-7)
fuel cycles for U. S., effects of uranium supply on, 25:10214
fuel cycles for U.K., optimization of out-of-pile, 24:11131
fuel cycles for various types of, effects of scale on economics of, 24:16193
fuel cycles for water cooled, development in Japan of optimum long term, 24:52784
fuel cycles for, analysis in Japan of long-term, 25:25896
fuel cycles for, beryllium oxide-moderated, gas-cooled, 21:1192
fuel cycles for, calculation of costs of, 25:20599
fuel cycles for, calculations for optimum economic, 24:38547
fuel cycles for, comparison of plutonium and thorium, 25:48254 (CONF-680989-, pp 31-8)
fuel cycles for, computer codes for economic analysis of, 25:23302
fuel cycles for, cost analysis code for, 25:23300
fuel cycles for, cost factors and physics characteristics of thorium, 25:48253 (CONF-680989-, pp 27-30)
fuel cycles for, development of plutonium, 22:20778(R) (BNWL-624)
fuel cycles for, economic optimization of, (T), 25:10233 (BNWL-SA-3605)
fuel cycles for, economics of, 21:8120 (CONF-660220-3)
fuel cycles for, economics of optimized, 25:36859
fuel cycles for, economics of thorium, 25:668
fuel cycles for, effect of radioactive waste processing and utilization on economics of, 23:11620
fuel cycles for, effects of plutonium utilization on long term, 25:54138 (A/CONF.49/P-822)
fuel cycles for, effects of Western Europe power strategies on, 25:6053
fuel cycles for, game theory calculations of plutonium cost in, 25:20753
fuel cycles for, problems of materials safeguards in, 25:41446
fuel cycles for, REFCO and POW76 codes for calculation of costs of, 25:48277 (ORNL-4695)
fuel cycles for, review of international aspects of, 23:37524
fuel cycles for, waste management in close-coupled, 21:10567 (CONF-660208-, pp 61-73)
fuel cycles in 500 MW(e) CIRENE type, economic comparison of various, 23:26049 (RT/FI-(68)39)
fuel cycles in Canada of heavy water, economics of plutonium, 24:11143
fuel cycles in Japan, economic aspects of, 25:59928
fuel cycles in Japan, effects of reprocessing program on, 24:31073
fuel cycles in Japan, evaluation of long range economics of, 24:11136
fuel cycles in Mexico for 540 to 660 MW(e), comparison of reactor types for optimum economic, 25:28722
fuel cycles in water cooled, development in Belgium of plutonium recycle, 25:54128 (A/CONF.49/P-277)
fuel cycles in Western Europe, analysis of optimum, 24:18554
fuel cycles of advanced gas cooled, factors affecting economics of approach to equilibrium in, 24:11130
fuel development and economics in Germany, 21:15657 (KFK-466)
fuel development for, 21:23659
fuel development for, thorium, 21:35718 (IN-1104)
fuel development in Japan for, analysis of, 23:15749
fuel development, sol-gel process for, 21:30437(R) (BAW-3714-3)
fuel economics for, description of optimum control system for, (T), 22:42238
fuel element assemblies design for pressure-tube, 21:25698(P)
fuel element assemblies for 1000 MW(e) high temperature gas cooled, design parameters of, 24:52852 (GA-9400(Vol.1))
fuel element assemblies for boiling, COLIBRI code for subchannel thermal performance analysis in, (E/T), 25:37003 (CONF-710317-1)
fuel element assemblies for boiling, RAHDT computer program for radiation heat transfer in bundle type, 24:47881(R) (IN-1320)
fuel element assemblies for heavy water moderated, HEROIC computer program for physics calculations of cluster type, 24:33241 (EUR-4464)
fuel element assemblies for high temperature gas cooled graphite moderated, description of end connected multiple section graphite sleeve cluster type, 24:26780(P)
fuel element assemblies for liquid sodium cooled fast, design of spacers for bundle type, 24:46048
fuel element assemblies for, design of pressure tube, 21:44905(P)
fuel element assembly design for, containing rotatable cylindrical elements, 21:46918(P)
fuel element assembly for fast, design of, 21:44908(P)
fuel element cladding for graphite moderated gas cooled, effects on heat transfer of herringbone pattern fins on cylinder shaped, (E), 24:43752 (CEA-N-1329)
fuel element cladding for liquid metal cooled fast breeder, effects of burnup and neutron spectra on failure of, 23:37526
fuel element cladding for water cooled, effects of emergency core cooling environment on embrittlement of Zircaloy, (E), 24:52915 (IN-1389)
fuel element cladding for, effects of steam emergency core cooldown operation on response of Zircaloy, 23:41131(R) (IDO-17299)
fuel element cladding for, materials review, 23:26997
fuel element cladding of water cooled, effects of coolant loss accidents on failure of Zircaloy, (E), 25:54116
fuel element clusters for 600 MW(e), fabrication and testing of twisted tape, 22:9996(R) (EUR-3651)
fuel element configuration for 1000 MW(e) liquid metal-cooled fast breeder, economic analysis of, 22:10005 (KFK-568)
fuel element cycle management for 1000 MW(e) reference design high temperature gas cooled, calculation of optimum economic, 24:38491 (DP-Report-135(Pt.3))
fuel element cycle management for 1000 MW(e) reference design high temperature gas cooled, calculation of optimum economic, 24:38539 (DP-Report-135(Pt.4))
fuel element cycle management for 1100 MW(e) pressurized water, optimization of reloading patterns for, (T), 25:23299
fuel element cycle management for 600 MW(e) two zone pebble bed reflector controlled, analysis of optimum, (T), 24:38544 (JUL-645-RG)
fuel element cycle management for gas cooled fast, calculation of optimum economic blanket, (T), 24:50093
fuel element cycle management for heavy water cooled and moderated, calculation of optimum, 25:3866 (CEA-N-1379)
fuel element cycle management for high temperature gas cooled, calculation of optimum economic low enrichment uranium, 25:8076 (GA-9715)
fuel element cycle management for, analysis of optimum, 24:38389 (CONF-700317, Paper 19)
fuel element cycle management for, calculation of optimum, 25:3803
fuel element cycle management for, calculation of optimum, 25:3869 (DP-Report-478)
fuel element cycle management for, calculation techniques for optimum, 24:33359
fuel element cycle management for, cyclic reactivity carryover effects on optimum, (T), 24:33193
fuel element cycle management in 1000 MW(e) liquid sodium cooled fast breeder, calculation of optimum, 24:22412
fuel element cycle management in, optimization of, (T), 24:43781
fuel element design and fabrication for fast-breeder, plutonium carbide-uranium carbide, 21:7899 (UNC-5137)
fuel element design for dual-purpose power-desalination HWOCR, economic evaluation of conceptual, 23:21537 (AI-CE-Memo-59)
fuel element design for French, 21:27726
fuel element design in Yugoslavia, sintered Zircaloy-2 clad urania pellet, 21:34117
fuel element development and fabrication for, summary of, 23:4223
fuel element development for, high-performance, 21:31936(R) (GEAP-5431)
fuel element fabrication research for, 21:25668
fuel element failure in U. S., performance of detection systems for, 24:4019
fuel element failure in U.K. gas cooled, performance of detection system for, 24:4018
fuel element failure in, comparison of detection methods for, 24:47866 (CEA-N-1356)
fuel element for 1000 MW(e) gas-cooled fast breeder, fabrication and irradiation testing of Hastelloy X-clad uranium oxide (UO_2) pellet-type, 23:7389(R) (GA-7645)
fuel element management in conceptual 250 MW(e) fast breeder, calculation of optimum, 24:22411
fuel element management in heavy water moderated boiling, ROTOR computer program for optimum, 24:20570
fuel element management in, effects on fuel cycle costs of, 24:52946
fuel element minimum critical heat-flux ratio calculation for, 21:40636
fuel element performance in 1000 MW(e) gas-cooled fast, effects of partial surface roughening on optimum heat transfer, (T), 22:50728 (GA-8268)
fuel element processing for, conference on, Augusta, Georgia, May 11 and 12, 1967, 21:40945 (CONF-670542)
fuel element processing for, equipment and method for, 21:22080(P)
fuel element processing for, method for shear-leach, 21:1427 (ORNL-3995, pp 21)
fuel element processing for, use of Redox plant for, 21:39001 (RL-SEP-595)
fuel element shock absorbers for gas cooled heavy water moderated, description of stress failing flared sleeve, 23:45090(P)
fuel element testing for thorium high-temperature, equipment and methods for, 22:51147
fuel elements and support design, 21:27781(P)
fuel elements assemblies for, calculation of coolant mixing and heat transfer characteristics of, (T), 25:3876 (RCN-123)
fuel elements for BWR and PWR, design parameters for, 22:44841 (WASH-1082)
fuel elements for Canadian, performance of zirconium-clad uranium oxide (UO_2), 22:42155 (AECL-3068)
fuel elements for CIRENE, critical heat flux in cluster arranged, 25:10215
fuel elements for CIRENE, determination of relative power distribution in, 24:18619
fuel elements for CIRENE, development of, 24:18657
fuel elements for CIRENE, effects of two-phase coolant flow on vibration of, (E), 25:18129
fuel elements for CIRENE, preliminary mechanical design analyses for metal and oxide, 24:4057 (CISE-R-117)
fuel elements for CIRENE, research on zirconium-clad uranium oxide (UO_2), 22:7830
fuel elements for CIRENE, use of spectral analysis for measurement of vibrations in, 24:22498
fuel elements for CIRENE, water coolant properties in loop for testing prototype, (E), 25:12821(T) (LIB/Trans-335)
fuel elements for CIRENE-type, economics of thorium oxide, 22:22827 (RT/FI-(67)29)
fuel elements for dual-purpose, design of, 22:3813(R) (AI-CE-54)
fuel elements for EURATOM, manufacturers and industry for production of, 23:21567
fuel elements for fast breeder, design parameters for optimum, (E/T), 22:39810
fuel elements for fast breeder, development programs for, 24:41015 (TRG-Report-1911, pp 266-86)
fuel elements for gas cooled fast breeder, descriptions of vanadium clad pin, chrome cermet, and ceramic coated particle, 23:28368
fuel elements for gas cooled fast breeder, development during August 1967 to July 1968, 23:45082(R) (GA-8787)
fuel elements for gas cooled fast, irradiation testing of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 24:24836 (ORNL-4508, pp 71-112)
fuel elements for gas cooled graphite moderated, design modification in France for, 25:3877
fuel elements for gas cooled graphite moderated, optimum economic operating limits in France for, 25:3878
fuel elements for gas cooled high temperature, development and irradiation testing of, 24:24835 (ORNL-4508, pp 3-70)
fuel elements for gas cooled, release of metallic fission products from, FREVAP 8 computer program for, 23:28413 (GA-8476)
fuel elements for gas-cooled fast breeder, development during July 1966 to July 1967 of, 23:17188(R) (GA-8107)
fuel elements for gas-cooled fast, radiation effects on plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) pellet type, 23:28488 (ORNL-4353, pp 111-39)
fuel elements for gas-cooled graphite moderated, analysis of heat transfer and pressure losses from, 22:1767 (JUL-486-RB)
fuel elements for gas-cooled high temperature, radiation effects on bonded bed pyrolytic carbon coated uranium oxide (UO_2) and uranium carbide (UC_2) particle type, 23:28487 (ORNL-4353, pp 1-109)
fuel elements for gas-cooled high-temperature, design of, 21:35641(P)
fuel elements for heavy water moderated, calculation of burnout heat flux in cluster type, 24:46056
fuel elements for high temperature gas cooled, development of ceramic coated uranium oxide (UO_2) particle type, 23:37521
fuel elements for high temperature gas cooled, fission product release from failed, 24:22431(R) (ORNL-4511)
fuel elements for high temperature gas cooled, fission product release from heated, 23:33066(R) (ORNL-4374)

fuel elements for high temperature gas cooled, radiation testing of graphite matrix BISO and TRISO coated particle, 24:33327
fuel elements for high temperature gas cooled, radiation testing of graphite matrix BISO and TRISO coated particle, 24:33328
fuel elements for high temperature, design of, 21:35640(P)
fuel elements for high-temperature gas-cooled, description of multiple coated polyhedral-shaped particles in Zircaloy-clad annular-shaped, 23:9162(P)
fuel elements for high-temperature gas-cooled, fabrication and properties of sintered beryllium oxide (BeO) for use as moderator, fuel matrix, and fission-product-retentive coating in ceramic dispersion-type spherical, 23:9152 (AAEC/E-193)
fuel elements for HTGR type, fast neutron radiation effects on BISO and TRISO coated ceramic particle graphite matrix, 24:29012 (GA-10012)
fuel elements for Latina-type, fabrication of uranium coated, 21:44910(P)
fuel elements for liquid metal cooled fast breeder, performance requirements for delayed neutrons monitoring for, detection of failure of, 23:31179 (ANL-7533)
fuel elements for pressurized water, development of prototype Zircaloy-4 clad uranium oxide (UO_2) pellet, 24:50121 (EUR-4406)
fuel elements for sodium cooled fast, development of, 25:8074 (EURFNR-827)
fuel elements for space thermionic, uranium oxide (UO_2) loss from vented, (T), 23:28577 (N-69-10099)
fuel elements for space, uranium oxide (UO_2) or uranium nitride (UN) loss from vented, (T), 23:28578 (N-69-10734)
fuel elements for thermal, analysis of poisoning due to fission products in recycle, 22:6018
fuel elements for thermionic, optimum design parameters for series connected, 25:10226
fuel elements for United Kingdom, economics of fabrication and quality control of, 22:27441
fuel elements for water cooled breeder, revised FIGRO computer program for swelling and temperature distribution in cylinder shaped bulk oxide, 24:29019 (WAPD-TM-618(Add.2))
fuel elements for, classification, properties, and reactions of uranium dioxide, 23:51043
fuel elements for, coolant flow-twisters for uniform cooling of, 24:4066(P)
fuel elements for, description of coaxial arranged thermionic, 23:45089(P)
fuel elements for, description of continuous ring spacer for, 25:10224(P)
fuel elements for, design and fabrication of spherical for high-temperature, 21:44896(P)
fuel elements for, design of tubular, 21:44906(P)
fuel elements for, development of thermionic converter, 23:6012
fuel elements for, economics for fabrication of uranium oxide (UO_2), 25:37022
fuel elements for, economics of reprocessing, shipping, and storing of spent, 23:13509
fuel elements for, economics of variable enrichment, 21:2852
fuel elements for, effècts of axial hole on high exposure performance of metallic uranium, (E), 24:47861
fuel elements for, effects of external parameters on lifetime of, 22:5993
fuel elements for, effects of fission gas pressure on design parameters of metal clad, 24:31070
fuel elements for, effects of repeated ECCS flooding on heat transfer properties of, 23:37573
fuel elements for, evaluation of purchase options and warranties for supply of, 23:28384
fuel elements for, failure characteristics and thresholds for, (E), 24:50123
fuel elements for, γ-attenuation method for detection of inhomogeneities in metal-clad oxide, 22:14739
fuel elements for, head-end facility design for reprocessing, 21:144 (GA-7107)
fuel elements for, mechanical and thermal data for design of, 25:51095 (JAERI-12704)
fuel elements for, performance to moderate burnup at high power output of uranium oxide (UO_2), (E/T), 24:46050
fuel elements for, problems and requirements for standardization of, 24:18607
fuel elements for, properties of pyrolytic-carbon-coated, 21:22927 (ORNL-TM-1772)
fuel elements for, properties of thorium—uranium, 21:11190 (ANL-7155, pp 1-166)
fuel elements for, radioisotope buildup in plutonium, 22:6014
fuel elements for, survey of capacity in Germany for fabrication of, 24:52923
fuel elements for, tabulation of information needed from utilities on supply of reload, 23:28387
fuel elements for, use as thermoelectric conversion device, 21:42836
fuel elements for, zero-power critical measurements on, 25:31573
fuel elements in Japan for water cooled, irradiation testing of uranium oxide (UO_2), 25:1892
fuel elements of 1100 MW(e) HTGR type, testing programs in Peach Bottom Power Reactor Unit 1 for fast neutron radiation effects on BISO and TRISO coated ceramic particle, 24:28857 (GA-10065)
fuel elements of boiling, effects of power bursts on failure of low burnup Zircaloy 2 clad uranium oxide (UO_2) rod, (E), 25:51090 (IN-ITR-113)
fuel elements of boiling, effects of power bursts on failure of Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet, (E), 25:51093 (IN-ITR-117)
fuel elements of boiling, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO_2) rod, (E), 25:51089 (IN-ITR-112)
fuel elements of boiling, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO_2) pellet and powder, (E), 25:51085 (IDO-ITR-103)
fuel elements of boiling, radiation hazards for, 25:3894
fuel elements of gas cooled fast breeder, pressure equalization system for, 25:6019
fuel elements of gas cooled graphite moderated, failure in France of cladding of, 25:3879
fuel elements of gas cooled, description of rotation engaged lugs of tube and sleeve coupling system for, 24:24838(P)
fuel elements of heavy water moderated CIRENE type, calculation methods for heat loss in thermal insulation for, 24:13548 (CISE-R-177)
fuel elements of heavy water moderated gas cooled, PBS-1 computer program for burnup calculations of cluster type, 24:46052
fuel elements of high temperature gas cooled pebble bed, calculation of statistical temperature distribution in, (E/T), 24:11323
fuel elements of high temperature gas cooled, thorium-232 reactivity worth and Doppler coefficient in, 24:7137
fuel elements of liquid sodium cooled fast, fission gas collection system for, 25:54119 (RT/ING-(71)2)
fuel elements of steam cooled fast, calculation of power for highly enriched rod type, (E/T), 24:4063
fuel elements of water cooled, calculation of plutonium-236 and plutonium-238 in irradiated, 25:20733 (BNWL-1523)
fuel elements of water cooled, effects of power bursts on failure of clusters of Zircaloy 2 clad uranium oxide (UO_2) rod, (E), 25:51092 (IN-ITR-116)
fuel elements of water cooled, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO_2) pellet, (E), 25:51086 (IN-ITR-107)
fuel elements of water cooled, effects of power bursts on failure of Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) rod, (E), 25:51091 (IN-ITR-114)
fuel elements of, detection and location systems for failure of, 24:4013
fuel elements of, detection systems for failure of, 24:3994 (STI/PUB-204)
fuel elements of, estimates of radioisotopes recovery to 1990 from spent, 22:24933 (BNWL-SA-1529)
fuel elements of, standards for inventory of fresh optimum, (T), 24:28894
fuel elements of, use of γ spectrometers for measurement of burnup of, 24:4056 (CEA-R-3863)
fuel fabrication for, economics of, 24:11279
fuel fabrication for, optimization of plant size for, 23:7665 (ORNL-TM-2346)
fuel for fast breeder, effects of molten chloride fuel bonding and chloride vapor coolant on performance of plutonium carbide (PuC)—uranium carbide (UC), 24:13549 (EIR-167)
fuel for fast breeder, use of thorium and uranium-233 in, 21:14033
fuel for light water, description and economics of processing cycle for enriched uranium, 23:17733 (ORO-665, pp 85-119)
fuel for thermal, nuclear effective temperature for resonance absorbers in, (T), 24:33272
fuel for thorium converter, economics of plutonium, 24:11142
fuel for, anticipated demand for, 21:8126 (ORNL-P-2535)
fuel for, economic aspects of uranium enrichment for, 23:38197
fuel for, guide for cost analyses of, 23:25999 (NUS-531)
fuel for, plutonium content of irradiated, 23:33156
fuel for, use of uranium fluoride (UF_4), 25:10221
fuel in Austria for, requirements during 1975 to 1990, 24:43607 (SGAE-RT-31/1970)
fuel loading machine for pressurized fluid-cooled, description of external-overhead-movable, 22:35523(P)
fuel management for, 21:30182
fuel management for high-temperature gas-cooled, effects of partial-recycle techniques on optimum economic, 23:15641 (GAMD-7284)
fuel management for pressurized water, schemes for optimization of in-core, 24:18527
fuel management for steam-generating heavy water-moderated, analysis of optimum schemes of, 22:30259
fuel management for, calculational methods for optimum, (E/T), 22:22759
fuel management for, procedures used in, 22:53284
fuel management for, required input for parametric studies for, 23:28386
fuel management in boiling water, accelerated exhaustive search algorithm for optimization of, 24:18680
fuel management in pressurized water, economics of direct replacement and shuffling, (T), 24:18679
fuel management in, ability of utilities for handling, 23:28389
fuel management in, operating flexibility from in-core, (T), 24:16206
fuel management in, use of variational calculus for in-core, 25:51131
fuel management program for USA, computer simulation of, 22:25042
fuel performance for light water, summaries of, 22:44841 (WASH-1082)
fuel performance in, test code for, 25:5991
fuel pin for long life, description of very high burnup vapor transport, 23:23988 (N-68-37209)
fuel processing and reprocessing for, description of U.K.A.E.A. facilities for, 23:40165 (CONF-681064-7)
fuel processing for, 22:27863(R) (ORNL-4204)
fuel processing for, 21:17555(R) (ORNL-3911)
fuel processing for light-water-cooled, 21:40954 (CONF-670542-, Paper 9)
fuel processing for, economics of, 21:12504
fuel processing for, research progress on, 21:45199 (ORNL-4145, pp 29-57)
fuel production and reprocessing for, analysis of economics for, 22:48705
fuel production for U. K., effects of nuclear power program expansion on, 23:13511
fuel production for, economics of, 21:19401
fuel production for, review of methods for, 23:8145
fuel recycle for boiling and pressurized water, effects of uranium-236 content on economics of, 23:37420
fuel recycle for high temperature gas cooled, analysis of optimum economic of, 23:45052(R) (GA-9090)
fuel recycle for high temperature gas cooled, analysis of optimum economic reprocessing methods of, 24:4026(R) (GA-9660)
fuel recycle in boiling, demonstration program for plutonium, 23:37539
fuel recycle in light water, optimization studies for plutonium, 23:28387
fuel recycle in thermal, Belgian program for plutonium, 23:37503 (CONF-690609-6)
fuel recycle in thermal, economics for plutonium, 24:13554
fuel recycle in thermal, economics for plutonium, 24:13531
fuel recycle program for high temperature gas cooled, development in U.S. of, 25:48261 (ORNL-4702)
fuel reloading of 1000 MW(e) liquid metal-cooled fast breeder, description of, 22:9990(R) (BAW-1312)
fuel replacement in pressurized water, optimum economics of, 23:28496
fuel reprocessing at the Hague Centre for, review on, 23:7620
fuel reprocessing for, 22:27865 (ORNL-4204, pp 46-51)
fuel reprocessing for Italian, evaluation of problems relative to flowsheet development for, 25:32045 (RT/CHI-(71)3)
fuel reprocessing study for 10,000-MW(t) high-temperature gas-cooled, 22:23092 (CONF-660524-, pp 617-45)
fuel requirements for American, economic effects of, 22:37474
fuel requirements for fast breeder, evaluation of plutonium, 22:7804 (EURFNR-422)
fuel requirements for free world, estimates to 1980 of, 23:24327
fuel requirements for high temperature gas cooled, calculation of 1970 to 1995, 23:37511
fuel requirements for Japanese, estimates to 1985 of, 23:11673
fuel requirements for Western Europe, forecast of 1990 to 2010, 23:28485 (NP-17556(App.))
fuel requirements for Western Europe, forecast of 1990 to 2010, 23:17167 (NP-17767(App.))
fuel requirements for Western European, predicted, 22:46965
fuel requirements for, analysis of radiochemical processing plants operation schedules for, 25:34376
fuel requirements for, in Japan, 1975 to 1990, 21:21668
fuel requirements in Europe for, predictions for 60000 MW(e) capacity by 1980, 24:38391 (EUR-4453)
fuel requirements over life span of, description of, 23:28387
fuel rod cladding for steam cooled fast breeder, effects of spiral spacer configurations on stress and temperature distributions in, 23:31165 (KFK-805)
fuel rod design for irradiation to varying degrees of melting in, 21:22903(R) (GEAP-5402)
fuel rods for CIRENE, facilities for in-pile testing of, 23:21495
fuel rods for gas-cooled, fabrication of central-insulated molded molten metallic, 22:44848(P)
fuel rods for thermal, development of molybdenum-coated uranium oxide (UO_2) thermionic emitter-, 23:4216 (BMwF-FBK-68-25)
fuel rods of ORGEL-type organic-cooled, model studies for parallel flow vibrations in, (E/T), 22:48688
fuel storage pool building for water cooled, effects of tornado on, 23:37429
fuel subassemblies for fast breeder, use of conical array for reduction of coolant pressure drop in, 25:34377(P)
fuel supply and processing requirements for fast, 23:52349(T) (JPRS-48330, pp 109-22)
fuel supply facilities and services in U.K. for, 23:28490
fuel supply for Euratom, status of, 25:5880
fuel supply for world-wide fast, forecast of plutonium, 22:48693
fuel supply situation for U.S., projections for uranium, 23:7434
fuel swelling in space vehicle, effects of strengthening and void spacing in cermet matrix of, 23:49602(R) (UCRL-50004-67-4(Pt.1))
fuel transfer in tandem 400 MW(e), design and performance of, 21:42776
fuel tubes for CIRENE, irradiation testing of Zircaloy-2 clad metallic uranium, 25:1894
fuel tubes for high temperature gas cooled, calculation of stresses in graphite, (E/T), 25:57051
fuel use efficiency in balanced systems of, 23:52370(T) (JPRS-48330, pp 18-38)
fuel utilization in boiling water, process computers for optimization of, 22:48680
fuel utilization in fused salt, 21:38574
fuel utilization in, economics of uranium, 22:39814
fuel utilization requirements in Yugoslavia for, analysis from 1975 to 2025 of optimum uranium, 23:15645
fuel-cycle costs for 1000 MW(e) gas-cooled fast breeder, (T), 22:27413 (GA-8032)
fueling of commercial Magnox, economics of on-load, 21:27727
fuels for Australian 200-MW(e) high-temperature gas-cooled, use of beryllia in, 21:14038
fuels for breeder—converter, economics of using thorium—uranium crossed progeny, 23:33050 (DUN-SA-72)
fuels for CIRENE type, electricity production and requirements for, 24:9109 (CONF-681219-1)
fuels for commercial, methods for safeguarding, 25:48781 (CONF-710617-6)
fuels for economic operation in Europe, thorium and uranium, 21:44880

fuels for fast, economic comparison of plutonium and uranium, 24:11146
fuels for French, technical and economic aspects of natural and enriched uranium, 24:38642
fuels for future U.S., thorium and uranium production requirements for, 25:37502 (A/CONF.49/P-59)
fuels for future worldwide, USAEC programs for providing enriched uranium, 25:37537 (A/CONF.49/P-66)
fuels for future, analysis of use of advanced thermal reactor fuel cycles for, 22:42198(T) (NSJ-tr-114)
fuels for future, development of world-wide uranium reserves to supply, 24:44137
fuels for gas cooled, stress limits for coated particle uranium oxide (UO_2), (E), 25:1889 (RD/B/N-1622)
fuels for German, economics of, 22:37502
fuels for Germany, supply-and-demand for 1966 and 1967, 23:5991
fuels for heavy water moderated thorium converter, physics and economics of plutonium recycling in, 24:43769
fuels for heterogeneous, calculations of energy availability for, (T), 25:1896
fuels for high temperature gas cooled, analysis of economics for plutonium, 23:37514
fuels for high temperature gas cooled, computer program for burnup calculations for coated particle, 25:57021 (JAERI-Memo-4449)
fuels for high temperature gas cooled, fission product release from failed particle type, 25:34392(R) (ORNL-4647)
fuels for high temperature, computer program calculation of burnup effects on stresses in coated particle sphere, 25:54113
fuels for high temperature, development and performance of coated particle, 24:46054
fuels for high temperature, effects of burnup induced stresses on lifetime of coated particle sphere, 25:54111
fuels for high temperature, effects of burnup on stresses in coated particle sphere, (T), 25:54112
fuels for high-gain breeder, use of unclad-metal, 22:5945
fuels for high-temperature gas-cooled 1000 MW(e) fast breeder, physics parameters for plutonium oxide (PuO_2)—uranium oxide (UO_2) and plutonium carbide (PuC)—uranium carbide (UC), 23:11238 (EURFNR-580)
fuels for high-temperature gas-cooled, analysis of fission product retention at 1100 and 1300°C by pyrolytic-carbon-coated thorium carbide (ThC_2)—uranium carbide (UC_2) particle-type, 23:9156 (GA-8524)
fuels for Japanese, production of, 25:23287
fuels for pressurized water and boiling water, economics of plutonium, 24:11141
fuels for sodium-cooled fast, development of ceramic, 21:34109(R) (GEAP-5292)
fuels for sodium-cooled, development of ceramic, 21:34108(R) (GEAP-5198)
fuels for steam-cooled fast breeder, effects of new plutonium 239-α data on breeding potential of, 23:17187(T) (EURFNR-586)
fuels for thermal, effects of burnup on isotopic composition of plutonium bearing, 25:54093 (A/CONF.49/P-610)
fuels for thermal, physics calculations for plutonium and plutonium—uranium alloy, (E/T), 25:18135 (EUR-4477)
fuels for thorium, economics of using bred, 22:3851
fuels for U. S., economics to year 2000 of, 23:15644
fuels for U. S., projected uranium requirements for, 25:25863
fuels for water cooled, review of program for plutonium utilization in, 25:46263 (BNWL-SA-3865)
fuels for water-cooled thermal, review of physics data for use of plutonium in, 22:37407 (BNWL-801)
fuels for, advantages of plutonium, 23:37538
fuels for, bibliography on plutonium, 21:5986 (BNWL-113-22)
fuels for, cost analysis in U. S. for 1971 to 1985, 25:36861
fuels for, cost—benefit analysis of, 25:59921
fuels for, design of metallic impact absorbers for shielded containers for shipping of, 25:48864 (CONF-710801-(Vol.2), pp 887-904)
fuels for, development of computer program for evaluating uranium resources for, 23:11663 (GJO-115-1)
fuels for, development of fast-breeder, 21:35572 (EURFNR-312)
fuels for, economic aspects through 1980, 23:7649
fuels for, economics of, 22:48957
fuels for, economics of fabrication and reprocessing in Turkey, 24:28863
fuels for, economics of plutonium, 21:14107 (EUR-2967.f)
fuels for, economics of plutonium-enriched, 21:5622 (NUS-259)
fuels for, effects of time after discharge on transuranium element composition of, (T), 24:26775 (ORNL-TM-2897)
fuels for, electrolytic dissolution of, 24:22737
fuels for, estimates of future use in Japan of, 23:13513
fuels for, evaluation of metallic uranium as, 24:11288 (ORNL-TM-2451)
fuels for, exploration and processing of uranium ores for, 22:51108
fuels for, fabrication and performance of ceramic, 24:43751 (BNWL-1435)
fuels for, fabrication and production of, 23:22505
fuels for, fabrication of plutonium carbonitride—uranium carbonitride, 21:32951(R) (BMI-1798)
fuels for, future requirements for, 25:51103
fuels for, irradiation performance of, 25:54082 (A/CONF.49/P-158)
fuels for, optimization of burnup of, 25:46246 (KURRI-TR-75, pp 83-5)
fuels for, optimization of burnup of, 25:46247 (KURRI-TR-75, pp 86-7)
fuels for, optimization of requirements for natural uranium, (T), 25:18152
fuels for, procedure for calculating inventories and consumption rates of, 24:11201 (BMwF-FBK-69-27)
fuels for, production of sphere-type, 23:10255(P)
fuels for, REPP code for optimum utilization of plutonium-containing, 22:20780 (BNWL-624, pp 4.1-16)
fuels for, requirements for thorium to year 2000, 25:41416
fuels for, schedules for optimization of fabrication capacity of, 24:16107
fuels for, sintering methods for fabrication of plutonium nitride—uranium nitride, 21:32951(R) (BMI-1798)
fuels for, U.K. program for plutonium utilization in, 24:24850
fuels from light water, design and fabrication of 30-ton container for shipping of spent, 23:589 (CONF-681001-, pp 663-72)
fuels from, economic value of fission products and transuranium isotopes recovered from spent, 22:49032
fuels from, shipping requirements for irradiated, 23:563 (CONF-681001-, pp 210-21)
fuels in Canada, trends in utilization of, 23:13510
fuels in fast breeder, burnup efficiency of, 25:54135 (A/CONF.49/P-709)
fuels in Japan, enrichment requirements for uranium, 24:24730
fuels in U.K. for, UKAEA fabrication services for, 23:13508
fuels in U.K. for, uranium enriching services of UKAEA for, 23:13508
gamma radiation from, for initiating chemical reactions, 21:40932(P)
gas turbine plants for gas cooled fast, temperature-entropy diagrams and efficiency of steam and helium, 23:11266
gas turbine system for fast gas-cooled, thermodynamics and safety requirements for economic closed cycle, 23:13367 (EIR-141)
gas turbine systems for carbon dioxide-cooled, analysis of thermodynamic characteristics of optimum economic, 23:4292 (TRG-Report-1734)
graphite burnoff in gas cooled high temperature, effects of steam concentration on, 23:33067(R) (ORNL-TM-2533)
graphite burnoff in gas-cooled, effects of steam concentration on, 23:17235(R) (ORNL-TM-2479)
graphite components for high temperature, requirements for fabrication of, 24:38483
graphite fabrication and production for, 21:45987(P)
graphite for, preparation of isotropic, 21:18316(P)
graphite for, preparation of isotropic, 21:18317(P)
growth forecast for enriched uranium fueled, during 1960 to 1973 of U.S, 22:24976 (WASH-1084)
growth rate predictions of, computer program for, 21:30198
hazards analysis of, 22:25132 (LA-DC-9519)
hazards analysis using STREAK code, 21:23721 (NP-16480)
heat exchanger for liquid sodium-cooled fast, safety problem analysis for single-wall sodium and water liquid—liquid, 23:17183(T) (CONF-670916-4)
heat exchanger module for, description of, 25:10204(P)
heat exchangers for carbon dioxide, design concepts and requirements for, 23:28545
heat exchangers for direct cycle gas turbine helium cooled, development of dry air, 25:20777
heat exchangers for direct cycle high temperature gas turbine gas cooled, design requirements for, 25:20776
heat exchangers for fast breeder, development of liquid metal—liquid metal intermediate, 25:18133
heat exchangers for gas cooled, heat transfer and hydrodynamic resistance in steam generating, (E), 24:16227
heat exchangers for gas-cooled, leak protection system for, 21:1183(T) (ORNL-tr-1309)
heat exchangers for high temperature graphite moderated gas cooled, safety problems of, 23:37490
heat exchangers for, construction and control methods review for graphite-gas, 21:17499
heat exchangers for, description of construction permitting use of low cost materials in, 25:46160(P)
heat exchangers for, design of pressure-tube supports for, 21:46978(P)
heat exchangers for, design of sealed, 21:40648(P)
heat exchangers for, design requirements of various configuration, 24:18753
heat exchangers for, effects of step change of gas inlet temperatures on gas outlet temperatures of counter-flow, (T), 25:20779
heat exchangers for, fatigue testing of tubesheets for, 23:31189
heat exchangers for, heat transfer method from coolant to working medium in, 23:28538(P)
heat exchangers for, hybrid computer simulation of forced circulation, 24:38534
heat exchangers for, mounting method in pressure vessel, 21:2863(P)
heat exchangers for, problems and requirements for standardization of, 24:18607
heat exchangers for, remote explosive tube plugging method for, 24:46038
heat exchangers support design for, 21:31987(P)
heat flux in, method of predicting critical, 21:17436 (APED-5286)
heat from, uses for by-product, 23:28381
heat production in remote U.S.S.R. areas from portable, economics of, 23:31219
heat transfer and density in MOSEL, 21:27685 (JUL-422-RG)
heat transfer and hydrodynamics in, 24:44187 (IEA-12)
heat transfer characteristics in, 21:17440(R) (EURAEC-1324)
heat transfer equipment for closed-cycle MHD, engineering problems of, 22:37503
heat transfer in two-phase counter-current flow system for heterogeneous, advantages of, 23:15611
heat transfer in, stochastic Monte Carlo method for hybrid computer analysis of, 24:38535
heat transfer measurements for, use of heated metal spheres for forced-convection, 22:30118 (ANL-7438)
heat transfer system design for 1000 MW(e) molten-salt, liquid-liquid, 21:40570 (ORNL-TM-1545)
heat transfer system for, 21:2860(P)
heat transfer system for boiling, description of high- and low-pressure turbine circuits with external superheating, 22:37466(P)
heat transfer system for direct-cycle gas-turbine, with means for emergency cooling, 22:39817(P)
heat transfer system for dual-purpose gas-cooled high-temperature iron ore-reduction and, flow diagrams for, 23:15700
heat transfer system for superheating, description of twin-turbine triple-core-circulation, 22:14365(P)
heat transfer system for, calculation method for optimum parameters of, 24:16153
heat transfer system for, design of, 21:31992(P)
history of, summary of, 22:12043
hot-channel factor determination for flat, method of, 21:25653
hydrodynamics of boiling, stability analysis for, 24:13524(T) (ORNL-tr-2244)
indemnification of, discussion on amended Price-Anderson Act for, 22:44851
indemnification provisions in France for, laws governing, 23:21454
industrial applications in addition to desalting, 21:23705(R) (ORNL-4087)
industrial aspects of, 23:7374
industrial complexes using, economics of electrometallurgy in, 23:29981 (CONF-680810-, pp 197-201)
industrial complexes using, economics of iron and steel production using hydrogen in, 23:29980 (CONF-680810-, pp 181-96)
industrial-only complexes using, economics of, 23:11167 (ORNL-4290)
information activities relating to, summary of USAEC, 23:7377
information centers on, economics and utility of, 23:7377
inspection in Italy, description of equipment and procedures for, 25:53930 (A/CONF.49/P-171)
inspection in Japan of, procedures for IAEA safeguard, 25:1846
inspection of conceptual 350 MW(e) Demonstration Fast Breeder Reactor, review of required, 24:7139
inspection of, access requirements and design provisions for in-service, 23:47208 (APED-5450)
installation in Euratom nations of, complete survey of factors affecting, 22:12021 (EUR-3639)
instrumentation for water cooled, description and performance limits of coolant loss accident monitoring, 25:8044
instrumentation for water cooled, review of in-core, 23:34886
instrumentation for, analysis of electrical surges, transients, and interference in, 25:39144 (IAEA-119, 4p.)
instrumentation for, comparison of fuel element failure detection, 24:47866 (CEA-N-1356)
instrumentation for, description of in-core, 24:24705
instrumentation for, design requirements for load following operation, 25:39148 (IAEA-119, 7p.)
instrumentation for, development in Canada of, 25:39154 (IAEA-119, 12p.)
instrumentation for, development of signaling techniques for, 23:50217
instrumentation for, development of signaling techniques for, 23:50218
instrumentation for, reference safety analysis report for, 25:54157 (DOCKET-RESARA-4)
instrumentation for, response of startup, 21:30099(R) (BAW-3647-4)
instrumentation for, review of radiological emergency, 25:32208 (BNWL-1552)
instrumentation in French, use of, 21:27769
instrumentation in U. K., performance of, 25:39260 (IAEA-119, 5p.)
instrumentation system for, design and operation of in-core, 25:48274 (WCAP-7607)
instrumentation systems for boiling and pressurized water, design comparisons of protection, 24:22374
introduction into power system in Denmark, system planning for future, 23:13432
iodine-129 discharge from, evaluation of hazards to human populations from, 25:44811
iodine-131 disposal from, basis of factor of 700 in hazard calculations for, 25:13438
isotope production by US, through 1990, 22:45245 (BNWL-716)
isotope production in, economic potential for, 22:8317
kinetic behavior of Belgian, summary of research and development of plant and core, 23:11181 (RCN-98, pp 1-15)
kinetic parameters of, stochastic model analysis for, (T), 23:31150
kinetics analysis of, space-time effects on, 21:38535
kinetics characteristics of, use of correlation function in analysis of, 23:47304 (CNM-R-2(Vol.2), pp 1031-46)
kinetics equations for coupled-core fast-thermal, exponential approximation for solution to, 21:40612
kinetics equations for fast, multigroup two-dimensional synthesis calculations for, 22:6012
kinetics equations for fluid-fueled, description of steady-state, (T), 22:35509
kinetics equations for large, evaluation of accuracy of factoring methods for space-dependent, 23:49651 (ANL-7410, pp 387-442)
kinetics equations for large, shape functions for solution to quasistatic, 23:49651 (ANL-7410, pp 387-442)

kinetics equations for, solution using B.W.K. approximation, 21:12179
kinetics for, principles of, (T), 23:52284
kinetics of, 25:54059
kinetics of 1000 MW(e) liquid sodium cooled fast breeder, effects of burnup and fuel cycle management on, (T), 24:4043
kinetics of 200-MW(t) boiling, adiabatic model calculations of space-time, 21:23656
kinetics of 2500 MW(t) helium cooled fast, effects of fuel and cladding materials on, 23:33036(T) (EURFNR-609)
kinetics of conceptual El-600, effects of cooling system rupture and slow xenon poisoning on, (T), 25:18117 (CEA-CONF-1726)
kinetics of conceptual Japan 1000 MW(e) liquid sodium cooled fast breeder, calculaton of optimum, 23:47182 (ANL-7520(Pt.2), pp 99-109)
kinetics of coupled, CRAC computer program for, 23:33042 (RT/FI-(69)8)
kinetics of coupled, use of vector matrix differential equations for space-dependent, 21:40604
kinetics of coupled-core, 21:31902(R) (BNWL-367)
kinetics of coupled-core, equations for, 21:19431
kinetics of fast breeder, comparison of ABN, KFK-SNEAK, and KFK 26-10 group constant sets for, 23:33037 (EURFNR-625)
kinetics of fast, comparison of Euler and Kantorovich methods for, (T), 24:22493
kinetics of graphite moderated gas cooled, hybrid computer simulator for, 25:1869 (CEA-CONF-1580)
kinetics of heterogeneous, stochastic technique for analysis of, (T), 22:37459
kinetics of high temperature gas cooled, comparison of one and two dimensional codes for, (E/T), 24:16304 (BNL-50117, pp 40-54)
kinetics of high temperature gas cooled, GYMEA computer program for, 23:47311 (CNM-R-2(Vol.3), pp 1333-47)
kinetics of large boiling, methods of analysis and experimental results for, 24:16156 (BNL-50117, pp 1-36)
kinetics of light water moderated thermionic, for undersea operation, 25:20813 (CEA-CONF-1727)
kinetics of the pulsed IGR, 21:31972
kinetics of, book on, (T), 24:26830
kinetics of, calculation of optimum, (T), 24:5509
kinetics of, comparison of variational flux synthesis methods for, (T), 25:3922 (ANL-7696)
kinetics of, description of computer programs for calculation of, (T), 22:32742 (BNWL-738)
kinetics of, drift correction of binary cross-correlation measurements for analyzing, 22:21369 (AEEW-R-583)
kinetics of, review of research in stability, (T), 22:27478 (BNL-12390)
krypton-85 release from, to atmosphere, 24:48538 (BNWL-SA-3233-A)
legal aspects in Argentina, 22:3840 (NP-16988)
legal aspects in U. S. of, review as of February 1970, 24:22377
liabilities and civil responsibilities in France for, laws governing nuclear, 23:21454
liability and civil responsibility for, evaluation of bases for international and French nuclear, 23:21455
license applications for boiling and pressurized-water, comparison of USAEC required supplementary information during, 23:26009
license applications for U. S., review of present, 23:26010
license applications for, regulatory action on, 24:16114
license approval for U. S., procedures for, 23:26010
licensing in Germany of, requirements for, 23:33013
licensing in Italy of, description of procedures and requirements for, 23:52285
licensing in Italy, role of CNEN in, 24:22366
licensing of conceptual 350 MW(e) Demonstration Fast Breeder Reactor, review of requirements for, 24:7156
licensing of German, discussion of policy reforms for, 22:37505
licensing of U. S., legal requirements during February to March 1970 for, 24:31035
licensing of U. S., procedures for, 24:4012
licensing of U. S., summary of regulatory review action on, 24:13584
licensing of, analysis of types of supplementary material to preliminary safety analysis report required for, 23:4154
licensing of, comparison of procedures for worldwide, 23:33013
licensing of, detailed evaluation of procedures and timing in, 23:7375
licensing of, evaluation of 1967 problems in, 23:7376
licensing of, internal study group evaluation of USAEC Division of Reactor Licensing procedures and requirements for, 23:43051 (TID-25155)
licensing procedure for U. S., review of, 22:39815
licensing procedures for German, proposed modifications to, 22:22724
licensing procedures for U. S., summary of, 24:22436
licensing procedures in Germany, summary of, 24:22365
licensing process for, explanation of, 22:39774 (IDO-17272)
list of operating and planned German, 23:23834
list of U. S., complete, 23:13416 (TID-8200(19th Rev.))
list of U. S., complete, 24:52746 (TID-8200(22nd Rev.))
list of U. S., complete, 25:23232 (TID-8200(23rd Rev.))
list of U.S., complete, 23:43086 (TID-8200(20th Rev.))
list of U.S., complete, 24:16124 (TID-8200(21st Rev.))
list of U.S., complete, 25:53920 (TID-8200(24th Rev.))
list of worldwide, 25:56984 (STI/PUB-194/4)
list of, May 1970 IAEA, 24:38395 (STI/PUB-194/3)
list of, September 1969 IAEA, 24:3993 (STI/PUB-194)
listing of world-wide, 23:37400
listing of world-wide,, 22:48656 (RT/EC-(68)1)
listing of, 1970 tabular, 24:18519
load control system for, with two secondary heat transfer circuits, 22:42287(P)
load frequency control in boiling water, effects of twin turbines on, 24:24780
loading device design for, 21:25681(P)
loading device design for, 21:4418(P)
loading machine for 1000 MW(e) high temperature gas cooled, design parameters of, 24:52852 (GA-9400(Vol.1))
loading machine for 300 MW(e) pebble bed, reliability analysis of, 25:6039 (RISO-214, pp 213-46)
loading machine for high temperature gas cooled, design concept for on-line, 23:43082 (GA-8471)
loading machine for high temperature gas-cooled 1000 MW(e), shielding calculations for on-line "A", 23:26052 (GA-8639)
loading machine for vertical pressure vessel for organic-cooled, description of, 22:3860
loading machine for, problems and requirements for standardization of fuel element, 24:18607
loading machine of heavy water moderated boiling, design requirements for, 24:20571
loading machines for high temperature gas cooled pebble bed, design and operation of, 24:52940
loading machines for Yugoslav, fabrication of, 22:10087
loading machines for, development in Canada of digital computer controlled, 25:39154 (IAEA-119, 12p.)
loading of high temperature gas cooled, description of equipment and procedures for, 23:47203
loading of light water or heavy water moderated, procedures and equipment for, 24:4069
loading of, evaluation of on-line, 22:16146 (GA-8075)
loading scheme for pressurized water, calculation of optimum, (T), 25:10184
loading system for CIRENE, description of on-power, 22:46921 (TID-24679(Vol.2))
loading system for CIRENE, operation and performance of, 22:46920 (TID-24679(Vol.1))
loading systems for high temperature gas cooled, comparison of conceptual on-line, 24:26770 (GA-8660)
location of U. S. and Puerto Rico, table of, 21:46894
maintenance in Italy, description of equipment and procedures for, 25:53930 (A/CONF.49/P-171)
maintenance in U.S. of, economics for, 24:24721
maintenance of conceptual 350 MW(e) Demonstration Fast Breeder Reactor, review of required, 24:7139
maintenance of gas cooled, design requirements for access and inspection for, 25:60026
maintenance of gas cooled, procedures for remote, 25:57066
maintenance of Italian, problems associated with, 21:25642
maintenance of, conference on remote, 25:60106
maintenance of, health physics control during, 25:59926
maintenance of, radiochemistry in, 21:28042
maintenance of, tools and recovery equipment for remote, 25:60107
maintenance programs for, factors involved in establishing and executing preventive, 23:37437
maintenance requirements for, 25:53969
management requirements in developing countries for small and medium output, 25:28540
marine applications of, 1967 summary of, 23:7411
market in developing countries for intermediate, 25:50908
materials design criteria for pressurized water system, 21:38520
materials development and testing for MPRE, 21:13099 (ORNL-3970, pp 185-92)
materials for high-temperature, development of, 24:8049
materials for Japanese, development of structural, 24:14666
materials for, methods for testing corrosive effects of sodium on, 23:50982(T) (JPRS-48330, pp 426-61)
materials for, radiation effects on, 21:25617 (BNWL-SA-374)
materials for, role of Minister of Industry in Italy in manufacture of, 24:22242
materials selection for components in water-cooled, 21:38442 (BNWL-SA-1193)
meltdown accident of 1000 MW(e) ceramic-fueled fast, Bethe-Tait analysis of parameters for, 22:1761 (GEAP-4809)
metallography for, pyrolytic carbon- or tungsten-coated urania and uranium carbide fuel spheres for, 21:30980 (LA-DC-8676)
missile generation and protection criteria for water-cooled, 22:50739 (ORNL-NSIC-22)
model development for steam-cooled fast, description of nonlinear dynamic analog and digital computer, 23:13439 (AE-341)
moderator damage problems in gas-cooled graphite-moderated, 22:6058
moderator for 1000 MW(e) reference design high temperature gas cooled, stress analysis of graphite, 24:38490 (DP-Report-135(Pt.2))
moderator graphite for high-temperature gas-cooled, oxidation of, 22:13062 (BNWL-473, pp 5.19-23)
moderator storage for high temperature helium cooled graphite moderated, description of high pressure steel piping for fluid, 23:31174(P)
monitoring effluent from, for safety and control, 21:6164 (BNWL-251)
monthly progress report on, Pacific Northwest Laboratory December 1966, 23:23850(R) (BNWL-369)
monthly progress report on, Pacific Northwest Laboratory March 1967, 23:23853(R) (BNWL-425)
monthly progress report on, Pacific Northwest Laboratory January 1967, 23:23851(R) (BNWL-375)
monthly progress report on, Pacific Northwest Laboratory April 1967, 23:23854(R) (BNWL-444)
monthly progress report on, Pacific Northwest Laboratory February 1967, 23:23852(R) (BNWL-404)
monthly progress report on, Pacific Northwest Laboratory May 1967, 23:23855(R) (BNWL-468)
monthly progress report on, Pacific Northwest Laboratory June 1967, 23:23856(R) (BNWL-499)
monthly progress report on, Pacific Northwest Laboratory November 1966, 23:23849(R) (BNWL-359)
neutron capture and fission in uranium-235 fueled thermionic, cross sections and resonance parameters for, (T), 25:20826
neutron damage flux in fast thermionic space, effect of moderator incorporation on fast, (T), 23:15696
neutron detection instrumentation for, survey of, 23:38246 (KAPL-M-6961)
neutron detectors for, development in Sweden of self-powered high flux, 25:39160 (IAEA-119, 16p.)
neutron diffusion operator in multichannel variational synthesis mock-up and two-dimensional synthesis numerical studies for nonseparable, 21:17453 (KAPL-M-6588)
neutron flux detectors for, performance of self-powered in-core, 25:37001 (AECL-3787)
neutron flux distribution in fast breeder and thermal, solution of two dimensional few group diffusion equations for, 24:11172
neutron flux distribution in hexagonal core of gas-cooled, GATT computer program for spatial, 23:26028 (GA-8547)
neutron flux distribution in one dimensional, D-breakdown method for stability of, (T), 23:43206
neutron flux distribution in, hybrid computer solution of space—time, 25:10303 (CEA-CONF-1684)
neutron flux distribution in, method for flattening, 21:15724(P)
neutron flux distributions in ORGEL-type, comparison of THIHET and EQUIPOISE computer programs for, 23:23876 (EUR-4205)
neutron flux distributions in pressure-tube, perturbations by fuel loading, (T), 21:25660
neutron flux distributions in water cooled, (T), 25:51049
neutron flux flattening in gas-cooled graphite, use of, 22:50765
neutron flux measurements in, self-powered monitors for fast, 24:46021
neutron flux monitoring in pressurized water, testing of solid self-powered detectors for, 24:11154 (BAW-10001)
neutron flux monitoring in, self-powered cobalt detector for, 23:40980 (AECL-3368)
neutron flux monitoring in, survey of detectors for, 24:44270
neutron flux monitoring in, trends in instrumentation for thermal, 23:38345 (CONF-681064-5)
neutron flux transients in, analysis with no time reversibility for, (T), 25:1959
neutron flux variations during transients in, effects of xenon-induced spatial, (T), 25:54063
neutron lifetime and delayed neutron fraction in thermionic, prompt, (T), 25:20825
neutron power spectral density measurements in, 21:34523 (ORNL-4091, pp 136-82)
neutron spatial effects on control of, time integrated method for calculating, 21:38564
neutron spectra for 1000 MW(e) fast, modal method for calculation of, (T), 24:33487 (RLO-2058-2)
neutron spectra for 1000 MW(e) fast, modal method for calculation of, (T), 24:33486(R) (RLO-2058-1)
neutron spectra in, review of calculational methods for, 22:14175
neutron spectrum and effective cross sections in plutonium-containing cores in, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
noise analysis in shutdown reactivity of, use of Cherenkov detector for optimum, 23:4196 (RISO-M-793)
noise analysis in, (E/T), 24:9162
noise analysis in, list of intrinsic sources for, 23:19479
noise analysis of, use of analog analyzers for, 21:27705
noise characteristics of, methods for detection and identification of, 23:52324(T) (JPRS-48331, pp 269-79)
noise measurements for, polarity correlation method for on-line, 25:39151 (IAEA-119, 9p.)
noise measurements in, frequency-domain analysis of, 21:30126 (CONF-660206, pp 487-501)
noise measurements in, German research programs for, 25:39234 (IAEA-119, 6p.)
noise measurements in, review of experiment, analysis, and theory for, 24:47950 (CONF-680980-, pp 185-96)
noise measurements in, statistical methods for error analyses of, 23:11185 (RCN-98, pp 459-91)
noise monitoring in, component incipient failure detection by on-line, (E), 25:39279
noise spectra in, hybrid simulation of stochastic models of, 24:38629
nuclear engineering of, bibliography on, 22:50740 (TRG-Inf. Ser.-678)
nuclear materials management at, 24:39199 (WASH-1147, pp 164-5)
nuclear materials management at, safeguards aspects of, 25:54934 (BNWL-1598)
nuclear materials management for, tamper-resistant unattended safeguards methods for, 24:39177(R) (SC-DC-70-4947)
nuclear materials management in, 21:46866 (WASH-1076, pp 82-6)
nuclear materials management standards for, IAEO, 25:3851
nuclear technology for industry, 22:3853
off-gas system for boiling, description of burner flame arrester for, 24:50132(P)
operating availability of, effects of control and safety systems reliability on, (E/T), 24:26788 (CEA-CONF-1453)
operating experience of, review of worldwide, 24:43631
operating license application for, utility planning for, 23:52286
operation and maintenance of, guide for economic evaluation of, 23:25999 (NUS-531)
operation and performance experience of, 21:2850
operation and performance of small industrial, 21:38600

operation and performance of, in Great Britain, 21:15647(R) (CONF-660450-1)
operation aspects of, 25:59915
operation before refueling of pressurized water, economic aspects of low power, 25:60098
operation by small electrical utilities, JCAE hearings on, 22:35516
operation economics and efficiency of, comparison of various types, 21:44884
operation economics for heavy water-cooled and -moderated vertical pressure-tube, 22:30235
operation experience of European high-temperature gas-cooled, 22:6041
operation experiences in Canada of heavy water moderated, review of, 24:18567
operation experiences in France of gas cooled, review of, 24:18570
operation experiences of heavy water moderated, review of, 24:18568
operation experiences of water moderated, review of, 24:18565
operation experiences of world wide gas cooled, review of, 24:18569
operation in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
operation in Europe of, power-generating cost analysis for optimum, 22:39766 (EUR-3079(Rev.))
operation in Europe of, review of, 25:18078
operation in France of, economics and safety of, 22:12051
operation in Germany during 1968, summary of, 24:13493
operation in Germany, review of, 25:56877 (CONF-700438)
operation in Puerto Rico of agro-industrial complex, cost analysis and production efficiency calculations for, 25:54242 (TID-25603(Vol.2))
operation in U. K., safety experience of, 24:22363
operation in U. S. of, economics for, 23:23847
operation in U. S., summary of, 25:39170 (A/CONF.49/P-36)
operation in U.S. of 768 and 1015 MW(e) gas-cooled, economics of, 23:13356 (CONF-680601-45)
operation in U.S. of water cooled, economics of, 24:35959
operation in U.S. of water cooled, review of, 24:28926
operation in U.S. of, economics for, 24:24721
operation in U.S., review of legal actions for, 24:50055
operation in U.S., safety aspects of, 24:50050
operation in USSR, 24:33178
operation in Yugoslavia, analysis of optimum economic, 24:26705
operation of AEG-type boiling, analysis of optimum economic and technical, 22:48696
operation of British, description of engineering improvements in, 22:14206
operation of coated particle fueled helium cooled, characteristics for optimum, 23:37553
operation of dual purpose desalination, cost analysis for, 24:33475
operation of dual purpose desalting and, comparison with fossil fuel plant for economic, 24:4108
operation of dual-purpose power and desalination, requirements for economic, 23:49626
operation of ENEL, use of on-line computer for, 21:27774
operation of French, 1967 summary of, 23:4171 (NP-17597, pp 41-73)
operation of gas cooled graphite moderated, problems in, 23:43127
operation of gas-cooled graphite-moderated, review of, 22:18494
operation of gas-fluidized, solid-fueled, method of, 21:5666(P)
operation of heavy water-moderated and pressurized-water 140, 500, and 1000 MW(e), analysis of optimum economic, (T), 23:2051
operation of pressurized water, boiling water, gas cooled, and heavy water cooled, comparison of economics for, 24:49997
operation of pressurized water, refueling and maintenance schedules for optimum economic, 25:5909
operation of proposed, personnel training requirements for, 22:12052
operation of solid-moderator, 21:30222(P)
operation of thermal, XEDYPNY computer program for xenon 135 override problems in, 23:21467 (RISO-M-786)
operation of U. K. dual-purpose desalting heavy water-moderated gas-cooled, analysis of economics of, 23:6014
operation of U.K., analysis of economics for, 22:44843
operation of U.K., analysis of optimum economic, 23:37395
operation of U.S., availability and reliability data for, 25:59918
operation of U.S., summary of, 25:25883 (KKWP-1/1970)
operation of water cooled and Magnox, review of capacity and availability factors for, 25:56893 (70-CNA-631)
operation of water cooled and water moderated, analysis of problems related to, 24:28860
operation of water cooled, emergency situations and protective measures during, 25:48293
operation of water cooled, in Switzerland, 24:13503
operation of water-cooled fast breeder, analysis of optimum fuel cycle, 22:37504
operation of, analysis of optimum economic, 24:7140
operation of, analysis of optimum economics for transitional period, 23:23840
operation of, analysis of parameters for optimum economic, 23:9136
operation of, analysis of problems for public utility, 23:49532
operation of, analysis of regulations on government and private, 22:27422
operation of, applicability of digital computer systems to, 22:12058
operation of, computer program simulation of optimum economic, 23:33015
operation of, computer simulation of effects of component reliability on, 25:28713
operation of, conference on, 25:51120
operation of, cost analysis for, 25:57059 (70-CNA-628)
operation of, effects of availability, flexibility, and power output on optimum, 24:20574
operation of, effects of safety committee activities on, 24:7015
operation of, effects of safety requirements on optimum, (T), 22:22687 (EURFNR-458)
operation of, IAEA code of practice for safe, 24:13487 (STI/PUB-222)
operation of, nuclear materials management in, 24:39181 (WASH-1147, pp 17-20)
operation of, on-line system for remote monitoring of, 24:7028
operation of, personnel for, 22:3836 (NP-16983)
operation of, physics measurements for optimum, 24:18676 (NP-18157)
operation of, predicted requirements for optimum economic, 23:34884
operation of, public relations aspects of, 24:13506
operation of, reliability for on-line, 22:32897
operation of, review of, 21:23635
operation of, review of safety committee activities for, 24:7016
operation of, review of safety committee activities for, 24:7017
operation of, review of world-wide, 23:26015
operation of, review to 1969 of world-wide, 24:26693
operation of, revision of Technical Specifications for, 23:28497
operation of, safety committee responsibilities for, 24:7018
operation of, stability of nuclear and conventional plant systems in, 25:60105
operation of, techniques for acquisition and processing of reliability data on, 23:25997 (HN-199)
operation of, training of UK personnel for, 24:9219
operation of, unattended tamper-resistant instrumentation for nuclear materials management in, 24:39187 (WASH-1147, pp 50-7)
operation stability of heterogeneous reactors, calculation of, 22:20828
operation with thickened fuel slurries, 21:2858(P)
operational characteristics of, 23:47213
operational experience in British, 21:27762
operational flexibility in energy systems, economic effects of, 23:15647
operations analysis for present, 21:23633
operations aspects for developing countries during 1970 to 1985, 25:28541
operations aspects in U.K., comparison of reactor types for load following, 25:53942 (A/CONF.49/P-479)
operations aspects in U.K., review of, 25:53939 (A/CONF.49/P-468)
operations aspects of dual purpose desalination, analysis of nominal and partial load, 25:60201
operations aspects of fast, 25:54133 (A/CONF.49/P-472)
operations aspects of U.S, 25:54047
operations characteristics in Germany of conceptual 1100 MW boiling, tabulation and descriptions of, 23:28419
operations experience for water moderated, review of, 24:43633
operations experience with world, summary of, 22:53304
operations for, USAEC licensing requirements for, 23:37423
operations histories of U.S., summary of, 22:1821
operations history in U. S. and Western Europe, 23:15566
operations history in U.S. through 1969, brief summary of, 24:49995 (TID-25537)
operations history of presently operating, 21:27707
operations incidents at water cooled, review of, 25:48225 (ORNL-TM-3435)
operations incidents during 1969, listing of, 25:48224 (ORNL-NSIC-87)
operations incidents in U. S., during 1967 to 1970, 25:41360
operations incidents in U.S. during April to May 1970, 24:50054
operations incidents in U.S. during February to March 1971, 25:48166
operations of worldwide, tabulation of components and systems failures during, 25:39204(T) (LIB/Trans-357)
operations personnel for, use of integrated training program-simulator for, 23:37425
operator training for boiling water, use of simulator for, 23:28395
operator training for natural-uranium gas-cooled and water-cooled, use of analog computer for, 23:11371
operator training for, description of GE-Dresden, 22:37499
operator training for, development in Japan of simulators for, 23:43220
operator training manual for, 24:28892 (WCAP-2713(Rev.))
operators and senior operators for, guide for licensing of, 22:46919 (TID-24662)
operators for evaluation of computerized simulators for training, 23:43073
operators for, methods and costs of training, 23:28395
operators for, performance analysis and performance criteria for, 23:9121 (NYO-3288-10)
operators for, role of universities in training, 23:37424
operators for, training and licensing requirements for, 24:18523
optimization criteria for cores of space, 21:38629 (UCID-15168)
parameter variations in, sensitivity analysis of linear and nonlinear, 22:16233
performance characteristics of heavy water-moderated gas-cooled and boiling, comparison of, 23:15613
performance comparison of prototypes, 21:35540 (AEET-269)
performance data for conceptual 1000 MW(e) helium-cooled fast breeder, 23:15608
performance effects of thermionic, on mission capability of electric propulsion space vehicles, 23:9220
performance guarantees for, effects on cost and contractual procedures of technical, 24:16126
performance in U.K. of, review of, 23:31135
performance of 1000 MW(e) helium-cooled, effect of artificially roughened fuel elements on, (T), 22:44863
performance of 1000 MW(e) steam-cooled fast, effect of core design parameter variations on, (T), 22:35554
performance of 50 to 1000 kW(e) thermionic, effects of fuel types on, 24:11289 (GA-9486)
performance of boiling water, detailed analyses of stability and dynamic, 23:47092 (APED-5652)
performance of combined hydroelectric and, effects of hydro availability and stream flows on predicted, 23:31106 (CONF-690113-4)
performance of combined-process pressurized-water and superheating, analysis of optimum economic and technical, 22:42282
performance of dual-purpose desalination, analysis of optimum economic and thermodynamic, 22:39871
performance of dual-purpose power-desalination, steam operating temperature for optimum, (T), 23:21540
performance of European, review of availability and reliability, 25:50938
performance of fast, effect of plutonium recycling on long-time, (T), 22:35552
performance of gas cooled, review of, 24:35957 (TRG-Report-1924)
performance of heavy water-moderated, design analysis for economic, 22:30158 (STI/PUB-163)
performance of magnox-type, in the United Kingdom, 22:6054
performance of multi-purpose agro-industrial complexes, analysis of optimum, 22:44881 (ORNL-4291)
performance of multi-purpose desalination, chemical production and, analysis of optimum economic, 23:15698(T) (ORNL-tr-2078)
performance of organic-cooled ORGEL-type, PERFOR 2 computer program for analysis of, 23:19463 (EUR-4223)
performance of pressurized heavy water cooled and light water cooled, with natural uranium and thorium fuel cycles, 24:24856
performance of pressurized-water, economic advances in, 22:27443
performance of pressurized-water, review of improvements in, 22:46942
performance of prototype heavy water moderated, comparison of, 24:22253 (AECL-3558)
performance of U. S., analysis to year 2000 of thermal, 22:37469
performance of U. S., France, and U. K., analysis of, 22:50749
performance of U.K. gas-cooled, 22:48678
performance of U.K., review of, 25:53939 (A/CONF.49/P-468)
performance of U.S., review of availability and reliability, 25:50937
performance of water-cooled, analysis of plutonium recycle utilization, 23:21496
performance of world-wide graphite-moderated gas-cooled, comparison of, 23:23830
performance of world-wide, comparison of,, 22:48656 (RT/EC-(68)1)
performance of, availability and reliability analysis for optimum, 24:31082
performance of, comparison of, 24:4011
performance of, effect of quality assurance on, 21:7974
performance of, effects of construction methods on, 21:34122
performance of, effects of design modifications on, 25:5901
performance of, review of, 24:28890 (STI/PUB-240)
performance of, systems design for economic, 22:32903
performance parameters for dual-purpose, effects of brine heater leakage on, 22:32955
performance parameters of 600 MW(e) twisted tape boiling water, (T), 22:9996(R) (EUR-3651)
personnel at, method for quantitative assessment of reliability and errors of operator, 23:31141 (SC-R-69-1236)
personnel for boiling, use of simulator for training operator, 24:50134
personnel for operation of, qualifications and training requirements for, 24:11115
personnel for pressurized water, use of simulator for training operator, 24:50135
personnel for U.S., academic and laboratory courses for training, 25:39223 (CONF-710416-, Paper 14)
personnel for U.S., AEC requirements for qualifications of, 25:39213 (CONF-710416-, Paper 1)
personnel for U.S., description of simulator training programs for, 25:39221 (CONF-710416-, Paper 11)
personnel for U.S., on-the-job training programs for operator, 25:39222 (CONF-710416-, Paper 12)
personnel for U.S., proposed standard for selection and training of, 25:39216 (CONF-710416-, Paper 5)
personnel for U.S., results of AEC license examination for operator, 25:39214 (CONF-710416-, Paper 3)
personnel for U.S., selection program for, 25:39217 (CONF-710416-, Paper 6)
personnel for U.S., staffing and training procedures for design, construction, and operator, 25:39224 (CONF-710416-, Paper 15)
personnel for U.S., training programs for, 25:39215 (CONF-710416-, Paper 4)
personnel for U.S., university programs for training, 25:39218 (CONF-710416-, Paper 7)

personnel for, licensing procedures and requirements for operator, 24:49982
personnel for, safety training requirements for, 23:37383 (NP-17851, pp 163-76)
personnel for, staffing and training in developing countries of, 23:37557
personnel for, summary of literature and methods for simplified training in meteorology of, 23:43072
personnel for, training program for health physicists, 25:39220 (CONF-710416-, Paper 10)
personnel for, training program for operator, 25:41305
personnel for, training program for startup and operation, 25:6211
personnel for, training programs for, 23:50453 (PHS-999-RH-33, pp 116-21)
personnel for, training requirements and schedule for, 23:49570
personnel injuries and fatalities in, review of 1943 to 1968, 23:31186
personnel safety requirements for, review of, 23:31186
physics analysis of water cooled, review of computer methods for, 23:34885
physics analysis of, revisions to FLARE code for, 23:47339(R) (BNWL-1106)
physics calculations for, 25:59915
physics calculations for 10,000 MW(t) fast sodium-cooled breeder, 21:30091(R) (ANL-7210)
physics calculations for 2.17 MW Lithium-7 cooled fast, 24:16254 (N-69-40061)
physics calculations for 500 MW(e) fast breeder, effects of region dependent multigroup neutron cross sections on, 24:1975 (AI-AEC-12843)
physics calculations for conceptual gas fueled fast breeder, 25:5971
physics calculations for large fast, procedure for, 22:9997 (EURFNR-416)
physics calculations for, review of computer codes for, 25:8059
physics calculations of variable geometry core, algorithm for, (T), 24:18766 (ZJE-56)
physics calculations of, use of digital computers for, 21:40521 (AEEW-M-754)
physics calculations per 1000 MW(e) metal-fueled fast breeder, 21:30091(R) (ANL-7210)
physics characteristics of plutonium-containing cores in, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
physics characteristics of Sever mobile, with burnable poison control elements, (E/T), 24:47927
physics characteristics of uranium 235 and plutonium fueled, comparison of, 22:1803
physics characteristics of, development of mathematical model for analysis of, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
physics characteristics of, tabulation and use of computer programs used in calculating nuclear and thermal-hydraulic, 23:28388
physics data from, value of, 21:27749
physics measurement of square lattice, SQUIFID computer program solution of few group neutron diffusion equations for, 23:31234 (TRG-Report-1761)
physics measurements for 1 MW gas-cooled, effects for Brayton cycle of hydraulic and thermodynamic calculations on optimum, 23:28580 (N-69-17313)
physics measurements for 1 MW gas-cooled, for Brayton cycle in space applications, 23:28581 (N-69-17314)
physics measurements for 1000 MW(e) liquid sodium cooled fast breeder, analysis of optimum economic, 23:47177
physics measurements for boiling heavy water-moderated plutonium-enriched natural uranium-fueled superheating, 22:30239
physics measurements for conceptual 1000 MW(e) fast breeder, performance of FARED calculation method for, 24:13590 (BAW-3867-9(Vol.4))
physics measurements for conceptual 600 MW(e) CANDU type EL 600, 25:12775 (CEA-N-1395)
physics measurements for conceptual gas-cooled heavy water-moderated, analysis of optimum, 22:53330
physics measurements for dual-purpose heavy water-moderated natural uranium oxide (UO_2)-fueled, description of, 22:30240
physics measurements for fast breeder, FARED computer program development for, 23:23875(R) (BAW-3867-6)
physics measurements for fast, effects of neutron data errors on, (E/T), 22:35542
physics measurements for heavy water moderated natural uranium fueled fog cooled, effects of core configuration on, (E/T), 24:4040 (CISE-R-116)
physics measurements for uranium-fueled steam-cooled fast, use of SNEAK 3A assemblies for, 23:21464 (EURFNR-608)
physics measurements for, calculational methods for, (E/T), 22:22759
physics measurements for, general analysis of, 22:53300
physics measurements in 300 MW(e) steam-cooled fast, description of, 22:32905
physics measurements in British, survey of, 21:27762
physics measurements in fast, use of, 21:27768
physics measurements in heavy water-moderated, computer programs for, 22:24963 (IBK-241)
physics measurements in operating fast-breeder, 21:30091(R) (ANL-7210)
physics measurements in operating, summary of developments in, 21:15676
physics measurements in, conference on, 21:27748
physics measurements in, evaluation of, 21:27758
physics measurements in, use of, 21:27753
physics measurements of 1000 MW(e) high temperature gas cooled, review of conceptual, 24:11155 (WASH-1085)
physics measurements of fast, calculation methods for, 24:14246 (CONF-681210-(Vol.2))
physics measurements program in British, theoretical foundation, 21:27753
physics of heavy water moderated, computer codes for analysis of, 21:15643 (CONF-660221-, pp 279-82)
physics of pressurized water, effects of Zircaloy clad fuel, burnable poisons, and part length control rods on, (E/T), 24:47723
physics of steam cooled fast, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
physics parameters for 1000 ME(e) reference design high temperature gas cooled, 24:38491 (DP-Report-135(Pt.3))
physics parameters for 1000 MW(e) reference design high temperature gas cooled, 24:38490 (DP-Report-135(Pt.2))
physics parameters for 6 types of, comparison of, 23:19466
physics parameters for AGR, calculations of, 21:27729
physics parameters for closed-cycle gas-cooled fast, calculation of optimum economic, 23:17204
physics parameters for fast breeder, description of optimum, 22:35505
physics parameters for high temperature gas cooled, 25:20707
physics parameters for high-temperature, 23:19466
physics parameters in fast sodium-cooled, economic effects of uncertainties in, 22:22740
physics parameters of 1000 MW(e) liquid sodium cooled fast, nonlinear programming methods for optimum, (T), 25:15351
physics parameters of 1000 MW(e) uranium oxide (UO_2) fueled liquid sodium cooled fast, effects of burnup on, 24:43724
physics parameters of CIRENE, review of heterogeneous methods for calculation of, 25:60040
physics parameters of fast, intercomparison calculations of, 24:13536 (BARC-415)
physics parameters of generic thermionic, effects of material composition on, 22:22791 (GA-8309)
physics parameters of lithium-cooled uranium nitride fueled space, effects of cross-section uncertainties on, 22:20899 (UCRL-70797)
physics parameters of mobile, with burnable poison rods, (E/T), 25:23384
physics parameters of power, effects of neutron data uncertainties on, (T), 23:5779
physics parameters of, effects of plutonium buildup on, (T), 22:14179
physics parameters of, physical-thermokinetic program for calculation of, 21:34126
physics studies for fast, review of programs for, (E/T), 24:22394
physics studies of high temperature, 21:31903(R) (BNWL-CC-500)
pipes and tubes for, quality control in fabrication of, 23:41582
pipes for, design criteria for, 22:27416(R) (ORNL-4228)
pipes for, production and properties of, 22:32805
piping flexibility in liquid metal-cooled fast breeder, design and analysis of, 22:39812
piping for, computer program for determination of stresses in elbows for, 22:27521(R) (ORNL-4236)
piping systems for water cooled, design requirements for high pressure and high temperature, 25:18131
piping systems for, safety codes and standards for, 25:39140 (CONF-710512-13)
piping systems for, safety standards of, 24:1988
plant capital investments for, guide for evaluation of, 23:25999 (NUS-531)
plate header for CIRENE prototype, elastic-mechanical analysis of, 21:46887
plutonium production by thermal and fast breeder, effects on fuel economics of predicted, 23:23921
plutonium production in future, safeguards problems associated with, 25:37565
plutonium production in Swiss, forecasts to 1990 of, 25:35310
plutonium production in, thermal output calculation method for safeguards system for, 25:21303
plutonium-238 production in, analysis of plutonium-236 contamination of, 23:4245
poison depletion at various burnup levels in, BEVE code for calculation of gadolinium, 25:48344 (RT/FI-(71)1)
poisoning control in shutdown, use of maximum principle for xenon, (T), 22:6031
poisoning oscillations control in, modal analysis of xenon, 21:40583(R) (WCAP-3680-4)
policies and requirements in France for, evaluation of various design concepts and economics to determine, 23:21429
power and water production from combined U. S.-Mexico dual-purpose, administrative summary of feasibility summary on, 23:13417 (TID-24681)
power and water production from combined U. S.-Mexico, feasibility study on, 23:13418 (TID-24767)
power capacity of, survey of installed world, 22:25029
power coefficients in operating, analyses of measurements of, 24:7035
power conversion equipment for Europe, list of suppliers for, 23:5984
power conversion processes for space, review of, 23:11315
power conversion system for 1000 MW(e) helium cooled fast breeder, design parameters for closed cycle gas turbine, 25:60137 (KFK-1409)
power conversion system for 1000 MW(e) high temperature gas cooled, thermal cycle for, 24:52852 (GA-9400(Vol.1))
power conversion system for 50 MW(e) steam-cooled fast, description of Loeffler cycle, 23:11263 (CONF-680419-, pp 303-25)
power conversion system for carbon dioxide cooled, flow diagram and design parameters for reheat gas turbine, 23:28541
power conversion system for compact gas cooled, optimum arrangement of, 25:1854(P)
power conversion system for dual purpose water cooled and moderated desalination, design requirements for pressurized water and steam isolation loops in, 24:33473 (NP-18234)
power conversion system for gas cooled, description of closed cycle, 24:36056(P)
power conversion system for gas cooled, description of closed cycle gas turbine, 25:60141(P)
power conversion system for gas cooled, design parameters of direct cycle gas turbine, 24:47890(P)
power conversion system for gas cooled, digital computer simulation for optimum design of, 24:13586
power conversion system for gas cooled, performance of combined closed cycle helium gas turbine and Rankine steam cycle for, 25:60139
power conversion system for gas cooled, principles for economic closed cycle gas turbine, 23:34914
power conversion system for gas-cooled, description of closed-loop gas turbine and direct MHD, 23:17241(P)
power conversion system for helium cooled, analysis of optimum design parameters for closed cycle helium turbine, 24:38588
power conversion system for helium cooled, description of carbon dioxide turbine, 25:37053(P)
power conversion system for liquid metal-cooled fast, description of multiple-loop superheat, 23:11267(P)
power conversion system for liquid sodium cooled fast breeder, analysis of chemical compatibility and power cycles for carbon dioxide gas turbine, 23:47228 (ANL-7520(Pt.2), pp 147-53)
power conversion system for liquid sodium cooled fast, description of metal vapor operating magnetohydrodynamic, 23:40381(P)
power conversion system for space-flight fast liquid lithium-cooled, development of alkali metal Rankine, 23:6033
power conversion system for, combination of gas turbine load peaking system with, 25:34399
power conversion system for, description of carbon dioxide gas turbine, 25:31625(P)
power conversion system for, finite element method for stress analysis of, 25:60142
power conversion system for, flow characteristics and performance of equipment for, 25:57035
power conversion system of boiling, radiation induced activation hazards for, 25:3894
power conversion system of pressurized-water, flow diagram for, 23:9191(P)
power conversion systems for gas cooled, operating characteristics of secondary air cooling system with closed Brayton cycle gas turbine, 25:60140
power conversion systems for helium-cooled, temperature-entropy diagrams for, 22:46940
power conversion systems for high temperature helium cooled 1000 to 2000 MW(e), comparison of gas and steam turbine, 24:16229
power conversion systems for liquid metal and gas cooled fast, comparison of design requirements for, 24:47854
power conversion systems for space, conceptual design for liquid metal Rankine cycle, 22:42345 (UCRL-70863)
power conversion systems for space, design parameters of heat-pipe out-of-core thermionic, 22:42346 (UCRL-70984)
power conversion systems for, analysis of optimum, 25:36974
power conversion systems for, design and operating parameters of magnetoplasmadynamic, (T), 25:20768
power conversion systems for, evaluation of combined-cycle steam and gas turbines in, 25:18164
power cost reduction in fast and thermal, by use of mixed-cycle fueling, 23:2038
power cycle for high temperature closed loop helium turbine, analysis of optimum economic, 25:34400
power cycles for gas cooled, development of, 25:23325(P)
power cycles for helium cooled, comparison of steam and direct cycle gas turbine, 25:20770
power cycles for high temperature gas cooled, calculation of optimum, 25:12809
power cycles for space vehicle, comparison of, 25:51208
power distribution during transients in, model for space- and time-dependent, 25:1957 (MRR-69)
power distribution in boiling water, coarse-mesh three-dimensional diffusion method for calculation of gross, 25:23262
power distribution in hexagonal core of gas-cooled, GATT computer program for, 23:26028 (GA-8547)
power distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2) lattices in, accuracy of methods for calculation of, (E/T), 24:16169
power distribution in U.S.S.R., methods for monitoring, 25:39153 (IAEA-119, 11p.)
power distribution in, in-core monitoring systems for, 25:28699
power distribution measurements in, performance of in-core instrumentation systems for, (E), 24:40727
power distributions in, numerical techniques for determining xenon feedback effects on space dependent, 23:37477
power divergences in large, calculations of asymmetric, (T), 25:12777 (TRG-Report-2060(Rev.))
power excursion and blowdown analysis for, RELAP2 computer program for, 22:39773 (IDO-17263)
power from, industrial aspects of usage of, 22:39738 (CONF-671103-6)
power from, production of commercial, 22:12038
power generation by, prediction of future, 21:31954
power generation from underwater, economics of, 22:48715 (AERE-R-5500(Vol.2), pp 498-511)
power generation in gas-cooled, by combining thermoelectric or thermionic process with magnetogasdynamic process, 22:39843(P)
power increases in, effects in fuel element cladding cracking of incremental, 25:54282 (A/CONF.49/P-314)
power level increases in VVR-S, methods for achieving, 21:35601
power monitor for, development of Cherenkov radiation detector, 24:40935

power of, design of gas Cherenkov monitor for, 24:47891 (ANL-7610, pp 369-464)
power oscillations in, CEXE code for analysis of xenon-induced spatial, 23:49553 (CEND-3932-1)
power output from, use of twisted-tape fuels for increased, 22:25001
power perturbations in, use of computer for optimization of control rod-induced, 22:42183 (CEA-R-3499)
power production and desalination using, economics of, 22:48661
power production by gas-cooled, using closed-cycle gas turbines, 21:21727(P)
power production by German, politico-economic effects of, 22:30154 (KFK-675)
power production capabilities in U.S.S.R. of, comparison with natural resources of economic, 23:13349(T) (AEC-tr-6996)
power production from European, calculation of fuel cycle costs during, 22:27438
power production from European, summary of 1967, 22:37451
power production from fast, prediction of, 22:1802
power production from SGHWR-type, economics of, 22:1809
power production from U. S., evolution of, 22:1801
power production from U.S., effects of fossil fuel power plants on economic, 22:39809
power production from, comparison with petroleum-fired plants of economy of German, 22:30169
power production from, economics of Euratom, 22:1800
power production from, effects of fuel costs on, 22:46938
power production from, effects of uranium supply on economics of, 22:51110
power production from, effects on international economics and trade policies of, 22:30204
power production from, survey of world-wide needs for, 22:1813
power production in developing countries during 1970 to 1985, 25:28541
power production system for gas cooled, with means for heat storage during off-peak operation, 25:28747(P)
power production using combination conventional power plant and, economics of, 22:25020
power spectra in large, measurement of spatial effects on, 21:38723
power spectral analysis in, use of analog analyzers for, 21:27705
power spectral densities with reactivity feedback in, analytical determination of, 21:38534
power spectral density in steady-state, with random modulation of reactivity, (T), 24:11300
power supplies for, integration of auxiliary and emergency, (T), 22:35484
power supply for water cooled, design requirements of emergency, 24:41025
power system electrical components for 0.25 to 10 MW(e) space, conceptual design analysis for high-temperature potassium Rankine cycle, 22:42342 (SAN-679-8)
power system for lithium-cooled space, description of potassium Rankine cycle turboelectric, 22:30287
power systems for, POWER code for transient stability analysis of, 25:23322 (DUN-6216(Rev.1))
power tilting in large, Greens function modal analysis technique for space-time dependent, 22:32824
power transients in large thermal, numerical characteristics of, 22:32882
power transients in, calculation method for asymmetric spatial, 25:8058 (TRG-Report-2060)
power transients in, effects on stability of clad oxide fuel rods, 25:11534 (WAPD-TM-979)
power transients in, microwave interferometric method for monitoring local, 25:51054
power transmission from, use of spark gaps to limit surges in, 22:14610
power transmission systems for fast, development of underground, 25:60109
practical value concept for, 24:16101
pressure control device for pressure-tube, design of, 21:2887(P)
pressure equalizing system for closed-loop pressurized-water, description of dual-pressure heated, 23:15646(P)
pressure suppression system for, model analysis for testing of, 23:37583
pressure suppression system of, description of lower suppression chambers and upper spray ejectors for, 22:50755(P)
pressure systems of, design criteria for in-service inspection of, 22:16126 (CONF-671011-, pp 220-7)
pressure tube design for heavy water moderated, 21:7997(P)
pressure tubes for, specification of Zircaloy-2, 23:16471 (BNWL-746, pp 4.1-6)
pressure vessel and pressure piping for, flaw detection using acoustic emission analysis of, 22:16247 (CONF-671011-, pp 107-126)
pressure vessel design for large, 21:25688
pressure vessel for 1000 MW(e) high temperature gas cooled, design parameters of prestressed concrete, 24:52852 (GA-9400(Vol.1))
pressure vessel for 1000 MW(e), design of prestressed concrete, 21:17441(R) (EURAEC-1553)
pressure vessel for 1000 MW(e), design of prestressed concrete, 21:17444(R) (EURAEC-1688)
pressure vessel for 200 MW(e) pebble-bed, design of prestressed concrete cylindrical, 23:11207
pressure vessel for 600 MW(e) Scandinavian, model testing of prestressed concrete, 23:37496
pressure vessel for 750 MW boiling water, test model development in Sweden for prestressed concrete, 25:31548 (EUR-4531, pp 507-16)
pressure vessel for advanced gas cooled, fabrication and construction requirements for prestressed concrete, 23:28433
pressure vessel for conceptual 1000 MW(e) high temperature gas cooled, analysis of optimum design parameters for prestressed concrete, 23:45068 (GA-8439(Rev.))
pressure vessel for conceptual 1000 MW(e), optimization of design of prestressed concrete, 22:25009
pressure vessel for first Czechoslovakian, welding procedures for, 22:7812 (NUCLEX-66, Paper 4)
pressure vessel for gas-cooled graphite-moderated, method for prestressing concrete, 23:28462(P)
pressure vessel for high temperature gas cooled, elastic behavior of penetrated upper slab of, 23:28469
pressure vessel for integrated 600 MW(e) heavy water moderated, design characteristics of prestressed concrete, 23:28470
pressure vessel for, coolant penetrations in separable module of, 23:37495(P)
pressure vessel for, description of combined concrete biological shield and, 23:52346(P)
pressure vessel for, design characteristics of rock shaft mounted prestressed concrete, 25:60071(P)
pressure vessel for, design of double-walled, 21:2861(P)
pressure vessel for, fabrication of prestressed concrete, 21:25696(P)
pressure vessel for, first Czechoslovakian, fabrication of, 22:7811 (NUCLEX-66, Paper 3)
pressure vessel internals for, vibration analysis and testing of, 23:40164 (APED-5453)
pressure vessel steel development for, 22:2620
pressure vessel surveillance programs, ASME panel discussion of role of, 21:4390
pressure vessel surveillance programs, ASME panel discussion of role of, 21:3393
pressure vessels for 500 MW heavy water moderated gas cooled, fast neutron radiation effects on prestressed concrete, 25:23270 (UJV-2390-RT)
pressure vessels for 500 MW heavy waters moderated gas cooled, fast neutron radiation effects on prestressed concrete, 25:37007(T) (ORNL-tr-2470)
pressure vessels for 600 MW(e) boiling water, design and performance of prestressed concrete, 25:31551 (EUR-4531, pp 615-45)
pressure vessels for boiling and pressurized-water, techniques for site assembly of steel, 23:15627
pressure vessels for boiling water, design characteristics of metal foil thermal insulation of prestressed concrete, 23:28472
pressure vessels for Europe, fabrication techniues and requirements for, 23:2044
pressure vessels for France, design safety recommendations for prestressed concrete, 22:44832(T) (ORNL-tr-1966-e)
pressure vessels for gas cooled, development of gas wall thermal insulation for prestressed concrete, 23:37492
pressure vessels for gas cooled, effects of pod boilers on design of prestressed concrete, 23:28474
pressure vessels for gas cooled, optimum design characteristics for thermal insulation of prestressed concrete, 23:28473
pressure vessels for gas-cooled heavy water-moderated natural uranium fueled, design parameters and fabrication techniques for carbon steel, 23:26002 (ZJE-36)
pressure vessels for gas-cooled high temperature, development of prestressed concrete, 23:28460 (ORNL-4353, pp 141-278)
pressure vessels for gas-cooled, design criteria for prestressed concrete, 23:11229
pressure vessels for gas-cooled, model analysis of 60°C effects on creep behavior of prestressed concrete, 23:7387 (GA-8776)
pressure vessels for heavy water moderated boiling, temperature distribution in prestressed concrete, 25:60080
pressure vessels for heavy water moderated boiling, thermal stress limits for prestressed concrete, 25:60081
pressure vessels for high temperature gas cooled, development of prestressed concrete, 24:24821 (ORNL-4508, pp 113-58)
pressure vessels for high temperature gas cooled, design requirements of prestressed concrete, 25:18134
pressure vessels for Italian, surveillance programs for, 25:40070 (IAEA-117, Paper 7a)
pressure vessels for large boiling water, design and analysis of control rod drive penetrations in, 23:47188 (APED-5703)
pressure vessels for large, development of multi-layer prestressed concrete, 23:2006
pressure vessels for large, shop fabrication and quality control techniques for steel, 22:16228
pressure vessels for large, site assembly of, 21:21677
pressure vessels for light water, effects on total cost of, 22:44841 (WASH-1082)
pressure vessels for U.K., design requirements of, 25:53941 (A/CONF.49/P-474)
pressure vessels for U.S., training of inspectors for nondestructive testing of welds in, 25:39219 (CONF-710416-, Paper 9)
pressure vessels for water cooled, standards for thermal shock analysis of coolant loss accidents in, 25:28683
pressure vessels for water-cooled, design and fabrication of prestressed concrete, 22:27436
pressure vessels for, acoustic emission system for incipient failure detection of, 24:46035 (IN-1398)
pressure vessels for, bibliography on recurring inspection of steel, 23:49558 (STI/PUB-21/34)
pressure vessels for, bolt tightening procedure for flange connections on, 24:26763
pressure vessels for, comparison of design criteria in Europe and U. S. for prestressed concrete primary, 23:40352
pressure vessels for, comparison of one and two wall models for optimum prestressed concrete, 24:26761
pressure vessels for, computer programs for temperature and stress analysis of, 24:26764
pressure vessels for, conference on thermal insulation of prestressed concrete, 24:5521 (EUR-4280(Vol.2))
pressure vessels for, construction and performance of prestressed concrete, 25:31552 (EUR-4531, pp 647-89)
pressure vessels for, construction techniques for prestressed concrete, 23:21471
pressure vessels for, description of circular shaped prestressed concrete, 25:1969(P)
pressure vessels for, description of materials and liner behavior for heated-wall prestressed concrete, 24:16179 (EUR-4280(Vol.1), pp 135-56)
pressure vessels for, description of new method for exterior prestressing of concrete, 24:16319 (EUR-4280(Vol.1), pp 157-86)
pressure vessels for, description of Scandinavian prestressed concrete, 22:22718
pressure vessels for, design and construction of prestressed concrete, 24:52856
pressure vessels for, design and fabrication of, 25:31564
pressure vessels for, design of prestressed concrete, 21:19825(P)
pressure vessels for, design of prestressed concrete, 22:19007(T) (ORNL-tr-1877)
pressure vessels for, design parameters of prestressed concrete, 24:4179(P)
pressure vessels for, design, fabrication, and testing of multilayer steel, 24:25174
pressure vessels for, development and construction of laminated steel, 25:31668 (IRS-T-17)
pressure vessels for, development in Czechoslovakia of prestressed concrete, 25:31561 (IAEA-126, pp 179-212)
pressure vessels for, development in France of prestressed concrete, 25:31557 (IAEA-126, pp 69-83)
pressure vessels for, development in Germany of prestressed concrete, 25:31560 (IAEA-126, pp 115-77)
pressure vessels for, development in Sweden of prestressed concrete, 25:31562 (IAEA-126, pp 213-41)
pressure vessels for, development in U.K. of prestressed concrete, 25:31555 (IAEA-126, pp 53-9)
pressure vessels for, development in Yugoslavia of prestressed concrete, 25:31556 (IAEA-126, pp 61-8)
pressure vessels for, development of prestressed concrete, 25:18127
pressure vessels for, development of prestressed concrete, 25:28684
pressure vessels for, development of steels for large, 21:23757
pressure vessels for, development of thermal insulation of prestressed concrete, 22:53303
pressure vessels for, dosimetry techniques for neutron radiation effects on steel, 25:44117
pressure vessels for, dynamic relaxation method for stress analysis of prestressed concrete, 25:31665 (EUR-4531, pp 735-57)
pressure vessels for, economics of prestressed concrete, 23:26426
pressure vessels for, effects of neutron radiation and size on brittle failure of, 25:54072 (A/CONF.49/P-548)
pressure vessels for, fabrication and testing of full-size steel model, 24:25179
pressure vessels for, fabrication criteria for prestressed concrete, 22:37455
pressure vessels for, fabrication of prestressed concrete, 22:27437
pressure vessels for, failure characteristics of prestressed concrete, (E), 25:23414 (CEA-CONF-1731)
pressure vessels for, failure probability for steel, 24:50105
pressure vessels for, French standards for prestressed concrete, 25:10160(T) (ORNL-tr-2402)
pressure vessels for, honeycomb steel head structure for prestressed concrete, 24:36022(P)
pressure vessels for, in-service ultrasonic inspection of steel, 25:44109 (CONF-700224-, Paper 2)
pressure vessels for, limit state design requirements for prestressed concrete, 25:5981 (RISO-214, pp 289-300)
pressure vessels for, matrix displacement method for three dimensional elastic and elastoplastic calculations of, 25:31667 (EUR-4531, pp 777-95)
pressure vessels for, need for appraisal of surveillance program for, 25:40065 (IAEA-117, Paper 2a)
pressure vessels for, nonlinear analysis of stress response of prestressed concrete, 25:31664 (EUR-4531, pp 697-734)
pressure vessels for, numerical calculations methods for stress analysis of prestressed concrete, 25:31666 (EUR-4531, pp 759-76)
pressure vessels for, organizational and technical requirements for design and fabrication of steel, 25:37933
pressure vessels for, planning for large-scale test model of prestressed concrete, 25:31558 (IAEA-126, pp 85-97)
pressure vessels for, problems and requirements for standardization of, 24:18607
pressure vessels for, quality assurance requirements for site assembly of, 24:24688
pressure vessels for, radiation effects surveillance programs for, 25:34339
pressure vessels for, radiation effects surveillance programs on, 25:32759
pressure vessels for, radiation effects surveillance programs for, 25:40069 (IAEA-117, Paper 6a)
pressure vessels for, radiation effects surveillance for, 25:40063 (IAEA-117, Paper 1a)
pressure vessels for, radiation effects surveillance programs for, 25:40071 (IAEA-117, Paper 9a)
pressure vessels for, regulatory criteria standards for construction of, 25:28537
pressure vessels for, reliability analysis of, 25:5983 (RISO-214, pp 323-34)
pressure vessels for, reliability analysis of, 25:5982 (RISO-214, pp 301-22)
pressure vessels for, reliability of neutron fluence and embrittlement calculations for steel, (E/T), 25:44116
pressure vessels for, remote water level indicators for, 24:13513

pressure vessels for, requirements for efficient fabrication of, 24:38526
pressure vessels for, results of scale model construction and testing of prestressed concrete, 24:16322 (EUR-4280(Vol.1), pp 355-92)
pressure vessels for, review of conference on prestressed concrete, 24:31061
pressure vessels for, review of design criteria for prestressed concrete, 24:26767
pressure vessels for, review of development in France of prestressed concrete, 24:28878
pressure vessels for, review of development of, 25:8065 (BNWL-SA-3427)
pressure vessels for, review of prestressed concrete, 24:11118
pressure vessels for, review of prestressed concrete, 24:13641
pressure vessels for, review of prestressed-concrete, 21:1160 (GA-7162)
pressure vessels for, review of safety requirements for fabrication of, 23:19488
pressure vessels for, review of structural analysis methods for prestressed concrete, 24:26768
pressure vessels for, revised standards for construction of, 25:34336
pressure vessels for, revised standards for construction of, 25:34337
pressure vessels for, revised standards for construction of, 25:34340
pressure vessels for, revised standards for construction of, 25:34341
pressure vessels for, revised standards for construction of, 25:34342
pressure vessels for, revised standards for construction of, 25:34347
pressure vessels for, safety codes and standards for, 25:39140 (CONF-710512-13)
pressure vessels for, scale model tests on prestressed concrete, 25:31559 (IAEA-126, pp 99-114)
pressure vessels for, specifications for design, fabrication, and testing of, 22:37920
pressure vessels for, standards for construction of, 25:34343
pressure vessels for, steel rope wrapping method for prestressing concrete for, 25:60063
pressure vessels for, stress analysis of low carbon steel, 24:36018 (ZJE-59)
pressure vessels for, stress-wave emission technique for incipient failure detection in, 23:9173
pressure vessels for, surveillance programs for analysis and critique of, 25:32761
pressure vessels for, test model analysis for multi-layer construction of prestressed concrete, 25:31549 (EUR-4531, pp 527-56)
pressure vessels for, thermal insulation for prestressed concrete, 24:36024(P)
pressure vessels for, transition temperature requirements for thick wall stainless steel, 24:33298
pressure vessels for, trends in development of prestressed concrete, 25:23282
pressure vessels for, U.S. design criteria for prestressed concrete, 25:31554 (IAEA-126, pp 19-51)
pressure vessels for, ultrasonic method for in-service inspection of, 24:45840
pressure vessels for, use of prestressed concrete, 21:4386
pressure vessels for, use of welding in fabrication of, 22:633
pressure vessels for, welding procedures for, 21:22852(T) (AEC-tr-6854)
pressure vessels in Czechoslovakia for, brittle fracture testing of low carbon steel, 23:26043
pressure vessels of boiling heavy water moderated, analysis of thermal stresses in prestressed concrete, 24:26762
pressure vessels of heavy water moderated boiling, calculation of temperature distribution in one wall prestressed concrete, (T), 24:26758
pressure vessels of heavy water moderated boiling, effects of design parameters on temperature distribution in concrete, 24:26759
pressure vessels of large, development of, 24:46042
pressure vessels of prestressed concrete for, comparison of Europe and U. S, 22:48775
pressure vessels of, calculation of temperature distribution in concrete, (T), 24:26760
pressure vessels of, fabrication and testing procedures for prestressed concrete, 24:11102(T) (ORNL-tr-2250)
pressure vessels of, failure behavior of, 24:29011
pressure vessels of, neutron flux and spectra in steel, (E/T), 25:6213
pressure vessels with integral pressure suppression chamber, description of, 25:10169(P)
pressure-suppression facility for light-water, experiments on, 21:25665
pressurizer in primary circuit of water-cooled, use of heat exchanger for steam pressure regulation in, 22:42265(P)
processing and disposal of wastes from, design criteria for, 21:32351
production of plutonium 236 contaminated plutonium 238 in, effects of reactor type on, 23:40370
protection and actuator systems for, design criteria for, 24:46059
protection system design diversity in pressurized water, 23:31185 (WCAP-7306)
protection system for, calculation of optimum testing schedules for, 25:60053
protection system for, description of power monitoring integrated, 25:28672(P)
protection system for, design and operation of, 25:28697 (CENPD-11)
protection system for, development of criteria for, 24:11149
protection system for, sensitivity analysis of two-out-of-four coincidence logic, 25:60052
protection systems for U.S., design requirements for, 24:50053
protection systems for, description of data acquisition and processing equipment and procedures for, 25:60208
protection systems for, design basis standards for, 25:31458
protection systems for, effects of systematic failure on performance of, (T), 24:46057 (BAW-10019)
protection systems for, use of actuators as logic elements in fail-safe design of, 25:28741
protection systems for, use of automatic electronic, 22:37438 (DUN-SA-65)
protection systems in Canada for, reliability analysis of, 25:5936 (RISO-214, pp 127-69)
protective instrumentation systems for commercial, description of, 22:18485
protective systems for, development trends in, 25:28674
protective systems in, reliability of electronic equipment in, 24:50164
pump for, technical and economic advantages of using turbine drives for boiler feed, 23:28400
pump motors for water cooled, development of 9000 hp 1200 rpm cooling system, 23:34948
pumps for boiling water and pressurized water, flow characteristics for, 25:57009
pumps for boiling water and pressurized water, flow characteristics for, 25:57039
pumps for liquid metal cooled and water cooled, performance requirements of, 24:29008
pumps for, computer program for vibrational analysis of, 25:60057 (AECL-3994)
pumps for, design criteria for, 22:27416(R) (ORNL-4228)
pumps for, reliability and maintenance requirements of, 25:53969
quality assurance criteria for, 25:6091
quality assurance criteria for licensed, description of USAEC, 23:37438
quality assurance program for, reference safety analysis report for, 25:54158 (DOCKET-RESARA-5)
quality assurance programs for, advantage and cost analyses for, 24:9065
radiation degrading of subcritical measurements, effects of residual fission products on gamma, 21:40590
radiation detectors for fast breeder, design parameters of in-core activation, 25:6044
radiation detectors for, development of in-core, 24:7019
radiation detectors in U. K. for gas cooled and liquid sodium cooled, performance of high temperature, 25:39258 (IAEA-119, 4p.)
radiation from, risk versus benefits analysis of, 25:41362
radiation hazards in U. S. from, conference on possible, 24:26709 (CONF-690952)
radiation levels in, analytical techniques and equations for determining, 21:44843(R) (IDO-17239)
radiation monitoring equipment for, review of problems with, 24:38397
radiation monitoring in, development of engineered systems for, 25:60120
radiation monitoring of environment of, in Italy during 1968, 25:29504 (PROT.-SAN.-13/69)
radiation monitors for, analysis of optimum locations for environment, 23:49538
radiation protection for normal and accident operations in, analysis of and methods for, 23:11130
radiation protection in environs of, 23:48036
radiation protection in U. K., analysis of standards and procedures for, 22:53313
radiation protection in, health physics criteria for, 22:53321
radiation protection in, problems with personnel, 23:19451
radiation-damage surveillance for, ASTM proposals for, 21:21671
radioactive effluents from, 25:48294
radioactive effluents from boiling water, review of procedures for control of, 24:45910 (CONF-700810-23)
radioactive effluents from boiling, distribution of and dose rates from, 25:56979
radioactive effluents from boiling, monitoring requirements and dose limits for, 24:45991
radioactive effluents from boiling, release rates for, 25:6080
radioactive effluents from dual purpose water cooled and moderated desalination, 24:33473 (NP-18234)
radioactive effluents from pressurized water, standards for maximum allowable, 24:33382
radioactive effluents from water cooled, proposed amendments to U.S. regulations on, 25:1810 (CONF-700408-4)
radioactive effluents from, effects on environment of, 25:56981
radioactive effluents from, environmental effects of, 25:48284 (BNWL-SA-3912)
radioactive effluents from, origin and release of gaseous, 24:16220 (SGAE-RT-23/1969)
radioactive effluents from, radiation hazards from, 25:57099
radioactive effluents from, role of Ministry of Health in Italy in controlling, 24:22368
radioactive effluents from, standards for, 24:33225
radioactive effluents from, surface water hazard analysis for, 24:20540
radioactive effluents in Japan from, release limits for coastal areas of, 24:45923 (CONF-700810-42)
radioactive effluents in Sweden from urban, calculations for, 25:56977
radioactive emissions from boiling and pressurized water, comparison of fossil fuel plant with, 24:20541
radioactive material releases from, radiation dose calculations for, 22:45196 (TID-24190, pp 301-77)
radioactive waste discharges from, effects on environment of, 24:28933 (BRH/DER-70-2)
radioactive waste disposal at, public health aspects of, 25:6708
radioactive waste disposal by, environmental effects of, 24:29727
radioactive waste disposal from, economics of salt mines for, 23:17731 (ORNL-3358(Rev.))
radioactive waste disposal from, evaluation of possible environmental hazards from, 24:41499 (CONF-700101-(Vol.1), pp 560-6)
radioactive waste disposal program for, in Canada, 23:49897 (PHS-999-RH-33, pp 160-8)
radioactive waste from commercial, review of U.S. program for management of, 25:37560 (A/CONF.49/P-839)
radioactive waste from, processing and disposal of, 24:2273
radioactive waste of boiling, procedures for high concentration of low level liquid, 24:31037
radioactive waste releases from, effects on atmospheric contamination, 23:38117
radioactive waste releases from, effects on atmospheric contamination, 24:25143
radioactive wastes from, development of safe methods for disposal of, 25:23757
radioactive wastes from, developments in management of, 24:22972
radioactive wastes from, economics of nuclear transformation system for disposal of long-lived, 22:51199 (BNL-11915)
radioactive wastes from, feasibility of using salt deposits for disposal of high-level, 24:14236
radioactive wastes from, procedures and policies for management of, 25:57001
radioactive wastes from, programs in EURATOM countries for control of contamination of surface waters by, 25:46856
radioactive wastes from, salt mine disposal of solidified high-level, 24:5864
radioactive wastes from, summary and conclusions of Project Salt Vault studies on disposal of high-level, 25:32196 (ORNL-4555, pp 317-56)
radioisotope production in, economic evaluation of, 23:38173(R) (BNWL-1085)
radioisotope production in, feasibility of, 22:8313
radioisotope production in, status and potential of, 25:7933 (AECOP-561)
radioisotope release to environment by, hazards to human populations from, 25:52050
reactivity coefficient calculation for steady state operation of, 22:1756 (EUR-3013)
reactivity coefficients for fast, synthesis method for determining, 22:32800
reactivity coefficients in fast, (T), 24:38496
reactivity coefficients of steam-cooled fast breeder, effect of design parameters on, (T), 22:35556
reactivity control in, description of multi-tube varying-level boric acid-filled zirconium alloy tube system for, 22:35518(P)
reactivity control of, radiometric device for determining boric acid concentration for, 22:25685
reactivity excursion characteristics of, description and classification of, 23:47222 (APED-5528)
reactivity excursions in boiling, analysis of potential, 23:31183 (CONF-650681-1)
reactivity excursions in, review of research programs on, 24:33366
reactivity in liquid metal cooled, effects of sodium coolant boiling on, 21:35612
reactivity measurements in, effects of gamma fluxes on meters for shutdown, 21:38528
reactivity measurements in, two-detector cross correlation for on-line shutdown, 21:38529
reactivity meter design for, 21:15704
reactivity of ceramic-fuel fast breeder, effects of core composition and configuration on, 22:1775 (RT/FI-(67)23)
reactivity of closed-cycle pressurized-water, effects of coolant pH on, 23:28442(R) (WCAP-3696-8)
reactivity of coupled core, description of on-line analog computer system for calculation of, 24:11171 (FMRB-14/69)
reactivity of coupled fast-thermal breeder, lifetime characteristics, 21:35613
reactivity of gas-cooled, use of pulse neutron technique for measuring subcritical, 21:21681
reactivity of high temperature gas cooled, effects of plutonium fuel on, 24:4026(R) (GA-9660)
reactivity of thermal, sensitivity to fission neutron and prompt gamma spectra of, (T), 22:30161 (WAPD-T-1950)
reactivity stability in large liquid sodium-cooled plutonium-fueled fast, sodium void and Doppler effects on, 23:19477 (IA-1177)
reactivity transfer function measurements in, determination of power as a function of, 21:38539
reactivity transients in large power, methods for analysis of hypothetical superprompt critical, 23:47219 (APED-5448)
reactivity transients in, detailed quantitative description of, 23:47221 (APED-5455)
reactivity variations in 1000 MW(e) fast breeder, effects of fuel element bending on, (T), 23:9229(T) (EURFNR-540)
reactivity void coefficient in fast breeder, core loading method for reduction of positive, 25:34326(P)
refueling program for U.K., health physics experience in on-load, 23:13530
regulation of U. S., review of action on, 21:15732
regulatory action on AEC, 22:22754
regulatory action on U. S., summary of, 22:53394
regulatory action relating to, USAEC, 21:46907
regulatory actions on, summary of AEC, 22:32899
regulatory activity of AEC concerning, recent developments in, 21:25691
relation to environment, consideration of, 23:7377
reliability analysis in Japan, 25:5937 (RISO-214, pp 457-79)
reliability data from, description of classification and processing systems for, 23:15555 (HN-193)
reliability of, data acquisition system for failure information concerning, 24:52848

reliability of, establishment of commercial credibility through, 21:38444 (CONF-670214-1)
reliability of, experience data on, 22:32897
reliability of, requirements for components, 25:53969
reliability of, statistical analysis of failure information for determining, 24:52849
requirements and supply of small, estimates of, 21:23596 (COO-284(Vol.2))
requirements for desalination-, 22:25030
requirements for future, electrical system planning to meet, 22:25037
requirements for small and medium size, prospects for future, 23:17179
research and development in U. S., general summary of 1968, 23:26024
research and development program in Europe, summary of 1968, 23:26024
research at Commissariat a l'Energie Atomique, 23:47815(R) (NP-17994)
research at Juelich Nuclear Research Center, 1969, 25:15964(R) (NP-18602)
research on, IAEA contracts for, 25:37826 (STI/DOC-10/125)
research programs on light water, description of, 22:44841 (WASH-1082)
research progress on Japanese, 22:30420
response during liquid sodium boiling accidents in, physical models and equations for calculating, 22:53383
review of heavy-water, 21:2822 (EUR-2966.f)
sabotage of U.S., potential hazards to public of industrial, 23:17236 (SNE-51)
safeguards and inspection for, description of IAEA system for, 22:42262
safeguards method for, control of fissile material flow at strategic points in, 23:43117 (KFK-803)
safeguards of U. S., reliability of, 21:17492
safeguards problems of plutonium produced in, world-wide, 21:40574 (RM-5148-PR)
safety analysis for heavy water-moderated boiling water-cooled plutonium self-sustaining, 22:30238
safety analysis for large fast breeder, relationship of double containment and aerosol behavior to, 22:7805 (EURFNR-425)
safety analysis for, effects on standards of, 22:24993
safety analysis for, review of legal aspects and controls for accident prevention, 23:15529(T) (ANL-Trans-712)
safety analysis in U.S. during February to March 1970, 24:31087
safety analysis in U.S., review of standards for, 24:33215
safety analysis in U.S., review of standards for, 24:33216
safety analysis of EURATOM, methods used for treatment of technical problems in, 23:37364 (CONF-681101-37)
safety analysis of heavy water-cooled and -moderated, description of probability methods for, 22:30267
safety analysis of loss-of-coolant accident in, effect of chemical reaction between steam and fuel cladding in, 21:21666
safety analysis of water cooled, review of European techniques for, 24:52947 (EUR-4467)
safety analysis of Westinghouse pressurized water, reference guide for, 25:20682 (DOCKET-RESARA-2)
safety analysis of Westinghouse pressurized water, reference guide for, 25:20681 (DOCKET-RESARA-1)
safety analysis of, comparison of MCA concept and reliability method for, 25:37039 (IRS-T-18(1970), pp 21-36)
safety analysis of, data collection system for quantitative, 24:50165
safety analysis of, errors in criteria for, 23:45026
safety analysis of, individual risk criteria for, 24:50161
safety analysis of, individual risk method for, 24:50167
safety analysis of, perturbation-time-dependent and group function-model for, 24:20592
safety analysis of, probability consequences technique for, 24:50166
safety analysis of, probability technique for quantitative, 24:50160
safety analysis of, quantitative reliability techniques for, 24:50163
safety analysis of, quantitative reliability techniques for, 24:50162
safety analysis reports for, guide to preparation of, 22:44836 (TID-24631)
safety analysis reports in Germany for, proposed procedures and format for, 23:19447
safety and approval procedures for German, Karlsruhe October 1967 conference on, 23:19449
safety and siting policy for U.K., summary of, 24:13504
safety aspects in Sweden for urban, 25:56977
safety aspects in U.S. of water cooled, information program for, 24:50052
safety aspects of, 25:8042
safety aspects of advanced, design standards for, 24:50066
safety aspects of Argentine, 22:3835 (NP-16982)
safety aspects of dual purpose space heating, 25:53894 (A/CONF.49/P-322)
safety aspects of dual purpose, for industrial electricity and steam production, 24:4113
safety aspects of high temperature gas cooled, 25:60130
safety aspects of high temperature gas cooled, probability analysis for, 24:50061
safety aspects of U.S, 25:60002
safety aspects of U.S, 25:60001
safety aspects of water cooled, 25:60131
safety aspects of, (E/T), 25:54149 (A/CONF.49/P-477)
safety aspects of, review of basic, 23:6016
safety aspects of, review of research and development programs to July 1970, 25:8045
safety aspects of, systematic hazards analysis for design and evaluation of, 25:60135
safety characteristics of 1000 MW(e) fast sodium-cooled, 22:20851
safety characteristics of high temperature gas cooled, with integrated boiler, 23:28477
safety characteristics of high temperature gas cooled, analysis of accident and failure response, 23:37565
safety circuits for, design techniques for, 23:47189 (NYO-3986-1(Vol.1))
safety circuits for, reliability theory calculations of failures in, 24:33336
safety control systems for, description of, 22:22743
safety control systems for, description of, 22:22741
safety criteria in Germany for, description of development of, 23:19446
safety engineering concepts for, discussion of, 22:25022
safety equipment for, 21:23697(P)
safety evaluation for boiling, systems approach to, 25:8043
safety evaluation in Germany of, procedures and licensing requirements for, 23:19448
safety evaluation of, analysis of systems engineering methods for, 23:23838
safety evaluation of, critieria for social benefit relative to risk for, 23:47145
safety evaluation of, review of problems in, 24:33364 (JAERI-1054)
safety features for, criteria for seismic and faulting displacement of, 23:11116 (HN-189(Rev.))
safety guides for water cooled, 25:31526 (TID-25697)
safety hazards evaluation for, probability technique of, 24:24777
safety hazards of, analysis of personnel, 22:42150 (AECL-3067, pp 29-33)
safety in operation of, methods to ensure public, 21:15703
safety in West Germany, procedures for analysis of, 24:52952
safety incidents during December 1969 to January 1970, 24:22376
safety incidents in, bibliography of 1967 and 1968, 24:43682 (ORNL-NSIC-69)
safety instrumentation for, method for evaluation of automatic and manual, 23:37433
safety instrumentation for, reliability analysis for, 22:16111 (CEA-R-3292)
safety instrumentation in French, data tables on, 23:11254 (CEA-R-3550)
safety of 1000 MW(e) steam cooled fast, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
safety of advanced gas-cooled, analysis for urban siting of, 22:18443
safety of Canadian, review of criteria for, 25:54142 (A/CONF.49/P-150)
safety of dual purpose, in power and district heating plants, 25:54235 (A/CONF.49/P-311)
safety of gas cooled, statistical fault analysis for, 24:5537
safety of German, licensing criteria and procedures for, 25:54145 (A/CONF.49/P-364)
safety of integral cooling system design concepts, application of maximum credible accident criteria to, 25:54148 (A/CONF.49/P-476)
safety of Italian, ENEL technical standards for, 24:22370
safety of sodium cooled fast, review of design measures for, 23:43140
safety of U. S., role of National Center for Radiological Health in, 24:22437
safety of U.S., benefits versus risks evaluation of, 24:11150
safety of water cooled and moderated, U. S. AEC program plan for, 24:22433 (WASH-1146)
safety of water-cooled, engineered safeguards used for, 22:27444
safety of, basic concepts of, 25:54165
safety of, bibliography on, 23:13525 (ORNL-NSIC-54)
safety of, consequences of industrial sabotage on, 24:16110
safety of, control and protection measures for, 25:34389(T) (JPRS-53069, pp 64-73)
safety of, correction of printed errors concerning, 23:4290
safety of, data acquisition and processing systems for reliability analysis of, 25:48218 (IRS-T-18(1969), pp 123-50)
safety of, description of methods for analysis of, 24:18690
safety of, design and operation factors in, 25:48292
safety of, design requirements of protection systems for, 24:13511
safety of, development of equipment maintenance standards for, 25:51149
safety of, development of reliability analysis for, 25:48217 (IRS-T-18(1969), pp 39-97)
safety of, development of reliability analysis for, 25:48216 (IRS-T-18(1969), pp 23-38)
safety of, economics and reliability aspects of, 24:47888
safety of, economics of, 21:40620
safety of, effects of site location on, 24:11097 (IRS-T-16(1969))
safety of, effects of site location on, 24:11100 (IRS-T-16(1969), pp 33-40)
safety of, emphasis on better core design and construction rather than consequence-limiting devices for, 22:18448
safety of, German authorization procedures, site evaluation, and criteria for, 25:20688
safety of, IAEA panel recommendations on earthquake-resistant design criteria for, 23:52390 (STI/DOC-10/88)
safety of, incipient failure diagnosis for assuring, 22:16123 (CONF-671011)
safety of, individual mortality risk method for evaluation of, 24:50168
safety of, industry and government responsibilities for, 23:37389
safety of, Japanese procedures for evaluation of, 25:23318
safety of, missile protection criteria in, 25:23317
safety of, noise analysis applications in, 21:2838
safety of, philosophies and records of, 23:13527
safety of, principles for evaluation of, 24:24776
safety of, probability concept for analysis of, 25:48221 (IRS-T-18(1969), pp 185-9)
safety of, procedures for analysis of, 25:18157 (WHAN-SA-43)
safety of, proposals for German research programs on, 25:20687
safety of, public opinion arguments concerning, 25:48215 (IRS-T-18(1969), pp 3-19)
safety of, regulations in France on, 24:22364
safety of, reliability analysis method for analysis of, 25:48221 (IRS-T-18(1969), pp 185-9)
safety of, reliability analysis of, 25:48222 (IRS-T-18(1969), pp 213-31)
safety of, reliability estimate method for evaluation of, 25:44144
safety of, reliability requirements in permissible risk evaluation of, 25:60122
safety of, research program in Japan on, 25:51137 (JAERI-13508)
safety of, review of chemical aspects of, 25:1908 (HMI-B-99)
safety of, review of French developments in, 24:24865
safety of, review of programs for, 24:22440
safety of, review of U. S. regulatory procedures for, 25:39179 (A/CONF.49/P-38)
safety of, role of Ministry of Labor in Italy in, 24:22369
safety of, status of U. S. AEC projects on, 24:13582
safety of, unified system method for control of, (T), 24:50169
safety of, use of failure statistics in analysis of, 25:37041 (IRS-T-18(1970), pp 223-39)
safety outline for operation of, 22:10010(R) (NP-17126)
safety parameters for conceptual 350 MW(e) Demonstration Fast Breeder Reactor, review of required, 24:7156
safety problems in Hungary, review of, 23:37380 (NP-17851, pp 7-14)
safety problems of Japanese, 21:14014
safety procedures for site independent, review of, 24:11101 (IRS-T-16(1969), pp 55-66)
safety procedures for, review of emergency, 23:37383 (NP-17851, pp 163-76)
safety programs for, in USA, historical review of, 24:27606 (BNL-14581)
safety programs for, outline of, 22:44855
safety programs in U.S. for, review of environmental, 24:31089
safety requirements for design, construction, and operation of water-cooled, review of U.S. and Denmark, 23:31187
safety requirements for operation of, analysis of, 22:48707
safety research and development programs on, review of, 23:43132 (CONF-670846-, pp 70-94)
safety research on, review of, 21:25689
safety review of European, treatment of specific technical problems in, 23:4153
safety reviewing process in Germany of, summary of, 23:13526
safety standards for undersea, 24:13516
safety standards for, effects of social costs on establishment of, 24:7045
safety standards in Canada for, 25:5936 (RISO-214, pp 127-69)
safety studies of advanced gas cooled, model simulation for, 23:15660
safety system for pressure tube, design of, 21:46922(P)
safety system testing for, design provisions for, 22:5919 (CONF-671011-2)
safety systems for boiling, analysis of engineered, 22:32859
safety systems for Germany, testing experiences with, 23:1984
safety systems for, comparison of reliability techniques for, 23:28527
safety systems for, description of scram portion of, 22:25024
safety systems for, reliability analysis of, 24:16100
safety systems for, reliability factors for, (T), 25:1898 (MRR-57)
safety systems in, reliability analysis of, 25:28740
safety systems of, use of on-line digital computers for, 24:16221 (UJV-2277-R,P,A)
safety-related occurrences in, February-March 1969 summary of, 23:33076
seismic effects on dynamic response of, structure—foundation interaction factors in, (T), 25:18160
seismic effects on, mathematical method for, 24:33368
seismic protection of, economics and feasibility of floating-barge concept for, 23:28525
settlement basin for 800 MW Hungarian, siting of, 21:30184
shield assembly for, blast energy absorber structure for top, 25:10247(P)
shield for TES-3, radiation heating of thermal, (E), 21:21043
shield mockup for, GRACE 1 program analysis of secondary gamma flux in layered, 21:21777(T) (ORNL-tr-1517)
shield models for, gamma dose and neutron flux distributions in, (E/T), 21:25648
shield optimization of space, OPEX-II code for, 23:30602 (N-69-20854)
shielding calculations for French, methods development for, 23:13476 (AERE-R-5773(Vol.4), pp 1247-68)
shielding configurations for, design requirements of primary and secondary, 22:53322
shielding experiments at Geesthacht, flux density correction for, 21:21776(T) (ORNL-tr-1513)
shielding for 60 MW(e), weight optimization for layered water—lead—polyethylene—water, (T), 22:26160
shielding for gas-cooled graphite-moderated, calculations for neutron, (E/T), 23:13463 (AERE-R-5773(Vol.3), pp 600-26)

shielding for marine, development of minimum requirements for, 22:42334(T) (NSJ-tr-105)
shielding for water cooled, design methods and requirements of, 25:5977
shielding for, calculation of temperature distribution in concrete biological, (T), 24:26749
shielding for, description of reactor combined pressure vessel and biological, 23:52346(P)
shielding for, design and construction of concrete, 24:52856
shielding for, design and construction procedures for, 23:15628
shielding for, design standards and procedures for, 25:5889
shielding for, summary of conference on, 22:53467
shielding for, temperature distribution in concrete, 25:60056
shielding in manned space vehicles, optimization of, (T), 25:6138
shielding mockup for, gamma dose measurement in, 21:21001(T) (ORNL-tr-1523)
shielding of fast liquid lithium-cooled space, design parameters for, 22:39860 (N-68-18197)
shielding of portable, calculations for biological, (T), 24:18754
shielding of pressurized water, problems of design of, 25:51062
shielding of, calculation of design requirements for, 24:20550
shielding of, use of polyester plastic and barytes for, 23:9137
shielding requirements for space applications, 22:27454
shielding requirements of, use of radiation measurement for determining, 21:21680
shielding weight optimization calculations for, 21:25641(T) (ORNL-tr-1525)
shields for, computer program for neutron flux distribution in, 21:46849 (GA-8069)
shutdown instrumentation for water cooled, analyses of testability and circuit or component failures in, 24:3992 (ORNL-NSIC-29)
shutdown of AGR and Magnox type, optimum control of xenon dominated, (T), 23:31230
shutdown of lunar-based lithium cooled fast, afterheat removal following, (T), 24:52888 (N-70-31885)
shutdown of, design of equipment for emergency, 21:44900(P)
shutdown of, economic effects of unintentional, 22:39788 (TUBIK-7)
shutdown of, in-core poison fluid filled conduit for, 24:22512(P)
shutdown poison transients in coupled, control using ING source, (T), 22:46729(R) (AECL-3157)
shutdown reactivity meter for, evaluation of two-detector cross-correlation 2DCT, 22:50738 (ORNL-4255)
shutdown reactivity of, use of noise analysis techniques for, 24:47821 (CONF-680980-, pp 87-101)
shutdown safety system for boiling heavy water, description of pipe-connected moderator tank for steam condensation, 22:30276(P)
shutdown system for, design of liquid, 24:31051
shutdown system of boiling, safety analysis of transients during failure of, 25:54160 (NEDO-10349)
shutdown systems for, reliability analysis of mechanical equipment in, 24:50131
shutdowns of world-wide, analysis of unscheduled, 22:53286
simulation for operator training, 21:35635
simulation for personnel training for boiling, use of process digital computer for, 23:45029
simulation for personnel training for boiling, use of GE/PAC 4020 process digital computer for, 23:45150
simulation of 800 MW(e) boiling, training schedule and operation procedures for digital computer real-time, 23:47344
simulation of development of, use of analog computers for economic optimum, 23:11165(T) (JPRS-47209, pp 74-89)
simulation of, hybrid computer methods for, 24:38621
simulation of, performance of complex analog and digital computer system for, 24:33243
simulation of, uses of hybrid computers for solution to partial differential equations arising in numerical, 23:40315 (CONF-690401-, pp 369-90)
simulator for boiling, performance of analog computer, 25:3933
simulator for, operation of personnel training, 25:6208
simulators for, development in Japan of, 23:43219
site criteria for, proposal for international acceptance of uniform, 22:18432
site for 1000 MW(e) high temperature gas cooled, design requirements of, 24:52852 (GA-9400(Vol.1))
site for 340 MW(e) heavy water moderated, effects on plant design parameters and safety standards of, 24:20588
site for, evaluation of concept of standard, 22:18438
site for, structure-foundation interactions during vibrations at, 23:11116 (HN-189(Rev.))
site in Puerto Rico for agro-industrial complex, data analysis for selection of optimum, 25:54162 (TID-25603(Suppl.))
site of Trosa Power Reactor, review of environment conditions for, 24:4009
site requirements for, effects of thermal effluents on, 25:18159
site selection for, health and safety considerations in, 21:31955
site selection for, in California, 21:17480
site selection for, proposed risk criterion for safety in, 21:38512
site selection for, role of health physicists in, 25:44823
site selection for, technical and economic factors in, 23:13529
site selection in Finland, economic factors in, 23:13528
site selections for future, summary of public interest considerations affecting, 23:15658 (TID-24936)
site survey in Sweden for, review of, 23:43062
sites for agro-industrial complexes, criteria for potential, 25:18204 (ORNL-4293)
sites for combined U. S.-Mexico dual purpose, oceanographic and hydrologic analysis of, 23:13418 (TID-24767)
sites for combined U. S.-Mexico dual-purpose, description of various, 23:13418 (TID-24767)
sites for combined U. S.-Mexico dual-purpose, geohydrologic characteristics of, 23:13418 (TID-24767)
sites for combined U. S.-Mexico dual-purpose, meteorologic and geologic characteristics of, 23:13418 (TID-24767)
sites for first Spanish, description of, 22:18430
sites for, analysis of factors affecting choices of, 23:40319 (NP-17946)
sites for, evaluation of engineered safeguards in terms of individual risk of, 24:7037
sites for, guide for economic evaluation of hypothetical, 23:25999 (NUS-531)
sites for, methods for selecting seismic design criteria for evaluating, 24:18530
sites for, probabilistic method for evaluating population characteristics of, 23:37434
sites for, procedures for evaluation of time-dependent factors for, 24:7038
sites in Germany for, population densities near, 23:43075
sites in Japan for multiple unit, safety criteria for, 23:33017
sites in Japan for, safety aspects of, 25:18056
sites in Sweden, evaluation of Baltic Sea coast, 23:49514 (NP-18011)
sites in Yugoslavia of, design requirements and safety standards for, 24:20589
sites of, effects on water economics of, 23:52293
siting areas for, descriptions of Pacific Northwest, 23:28403
siting criteria for first Argentine, 22:18431
siting criteria for United Kingdom, 22:6056
siting criteria for, development of, 21:31942 (NP-16793)
siting factors for U.S., factors which affect, 23:37361 (CONF-681101-33)
siting feasibility of off-shore, 21:23705(R) (ORNL-4087)
siting for steam generation, 21:35611
siting guide for, development of undersea, 23:52391
siting in agro-industrial complexes, factors affecting, 23:11167 (ORNL-4290)
siting in cities, air pollution reduction from, 21:20224
siting in Finland of, effects of cooling water requirements on, 24:28980
siting in Germany of, description of policies on, 23:43075
siting in Germany, effects of engineered safeguards and refined analytical methods on urban, 23:37360 (CONF-681101-32)
siting in Hungary, health physics problems of, 24:28978
siting in Israel, inland and underground, 25:41833(R) (IA-1218)
siting in metropolitan areas, method for fission product dispersion calculations for, 22:18465
siting in U.K., safety procedures and requirements for, 24:1918 (CONF-681101-39)
siting in U.S. of, effects of public opinion on, 25:56976
siting of 1000 MW(e) pressurized water, mortality risk calculations for, 24:33214 (LA-4316)
siting of boiling water, effects of pressure suppression/gravity flooding containment system on, (T), 24:47880 (GEAP-5536)
siting of Bolsa Island dual-purpose, 21:38578
siting of British, numerical evaluation of risk in, 22:18433
siting of Canadian, evaluation of basic safety philosophy and its application to, 23:37362 (CONF-681101-34)
siting of Canadian, policy for, 23:4152
siting of Canadian, policy for, 22:32904
siting of Canadian, requirements for, 22:18429
siting of dual purpose desalination, effects of engineered safeguard requirements on economics of, 24:20618 (ORNL-TM-2380)
siting of French, safety considerations in urban, 22:18444
siting of high temperature gas cooled, comparison of system characteristics for safe urban, 23:37567
siting of high temperature gas cooled, safety aspects for urban, 23:37566
siting of Japanese, analysis of problems in, 22:18427
siting of Japanese, factors affecting, 22:18426
siting of Japanese, problems of coastal, 23:13864
siting of Japanese, summary of problems in, 23:4155
siting of Mexican, problems in, 22:18437
siting of U. S., effect of engineered safeguards on, 21:2842
siting of U. S., problems and considerations in, 23:4157
siting of U. S., requirements forecast to 1987, 22:48695
siting of U.S., effects of reactor design and engineered safeguards on, 22:18428
siting of U.S., environmental considerations for, 25:54164
siting of US, policy for, 22:32904
siting of Yugoslav, factors affecting, 22:18435
siting of, analysis of characteristics and factors for, 25:56975
siting of, analysis of optimum economic, 23:47225
siting of, analysis of public utility responsibilities in, 23:49579
siting of, comparison of policies in U. S. and Canada on, 23:43076
siting of, economics factors in, 21:40620
siting of, effects of containment and engineered safeguards on, 22:18447
siting of, effects of containment on, 23:37598
siting of, effects of containment on safety factors in, 22:18439
siting of, effects of earthquake fault zones on, 23:21435
siting of, effects of population density in U.S. on, 24:33219
siting of, effects on accident hazards of urban, 23:49539
siting of, effects on human environment, 25:24076 (P-4415(RAND))
siting of, engineering safety evaluation of characteristics of, 22:18445
siting of, environmental effects on, 22:18466
siting of, environmental problems in, 24:13583
siting of, evaluation in Puget Sound area of, 23:43066
siting of, evaluation of factors affecting, 22:12055
siting of, evaluation of undersea, 23:4278
siting of, factors affecting safety and urban, 23:37359 (CONF-681008-9)
siting of, factors affecting U.S, 22:18425
siting of, federal and state legal aspects of, 22:27430
siting of, geologic and hydrologic factors in, 25:34741
siting of, legal aspects of, 23:26060
siting of, method for probabilistic assessment of risk associated with, 23:37591
siting of, model analysis for optimum economic, 23:45098
siting of, modifications in British policy toward metropolitan, 22:44853
siting of, mortality risk concept for evaluation of, (T), 24:50157
siting of, proposed quantitative criterion for, 22:18436
siting of, radioecological factors in, 22:18442
siting of, requirements for, 21:46898
siting of, review of procedures for, 25:23319
siting of, review of world-wide safety standards for, 23:37381 (NP-17851, pp 73-100)
siting of, safety standards for, 21:44894
siting of, summary of general AEC practices for, 22:44841 (WASH-1082)
siting of, summary of general trends toward metropolitan, 22:44841 (WASH-1082)
siting of, thermal pollution factors in, 23:47639
siting policies for U.K., review from industrial point-of-view of legal framework and, 23:37365 (CONF-681129-1)
siting policy for British, results of application of practical, 22:18434
siting policy in U.K. of prestressed concrete-contained gas-cooled, presentation of new, 23:15578
siting policy in United Kingdom in relation to reactor safety standards, 24:7921
siting practices for, effects of urban heat supply economics on, 24:43829 (ORNL-HUD-11)
sodium boiling accidents for fast, physical models and equations for analysis of liquid, 22:53383
space applications of, 1967 summary of, 23:7411
stability analysis for space vehicle thermionic, (T), 24:33461
stability analysis for thermionic, effects of delayed collector and structure coefficients on, (T), 23:21462 (GA-8943)
stability analysis of, using steepest ascent extrenum-seeking procedure, 21:12188
stability characteristics of, effect of coolant pass arrangement on, (T), 22:30152 (KAPL-P-3180)
stability in, analysis of space-independent, (T), 22:27478 (BNL-12390)
stability of 1000 MW(e) steam cooled fast, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
stability of 1000 MW(e) steam-cooled fast, effects of design parameters and control systems on, (T), 22:37399 (AE-321)
stability of 250 MW(e) prototype CANDU—BLW, design criteria for, 24:16161 (BNL-50117, pp 365-79)
stability of 280 MW(e), effects of xenon oscillations on, 24:16097
stability of boiling, Nyquist criteria for, 24:13524(T) (ORNL-tr-2244)
stability of CIRENE type, analog and digital computer analyses for, 24:13537 (CISE-R-167)
stability of conceptual A2 gas-cooled heavy water-moderated natural uranium fueled, analysis of xenon, (T), 23:26030 (UJV-2120-R)
stability of coupled-core, determination of region of asymptotic, 21:30132 (EUR-3465.e)
stability of in-core thermionic, with coolant time delays between radiator and core, (T), 25:8133 (COO-2109-2)
stability of large seed-blanket, 21:38560
stability of spatially dependent nonlinear, criterion for asymptotic, 22:33160
stability of steam-cooled, effects of open and closed coolant loops on, 23:4181(T) (EURFNR-495)
stability of, analysis of xenon-induced oscillations, (T), 21:15700
stability of, computer program reliability for xenon oscillation effects on, (E/T), 25:1952
stability of, digital simulation of xenon spatial oscillation effects on, 25:10306 (NP-18547)
stability of, effects of control element arrangement on, (T), 24:33279
stability of, effects of external perturbations on, (T), 23:45133
stability of, Liapunov method for calculation of steady-state, 22:35502
stability of, Liapunov's second method analysis of, 21:17489
stability of, two-phase flow effects on, 21:40575(R) (STL-372-50)
stability of, use of P_1 equations containing nonlinear feedback to determine, 23:5981
stability of, with circulating fuel, 21:14009
stability requirements of in-core thermionic, effects of design parameters on, 23:40415
standardization effects on bid evaluation by utilities, 22:35489
standards in U. S. for, effects on licensing procedures of, 23:49534
startup in 1969, table of initial, 24:16108
startup in Germany during 1968 to 1972, tables of, 24:16109
startup of 1000 MW boiling, procedures for black-plant, 23:19507

startup of 300 to 500 MW(e) boiling, technical aspects of, 25:28721
startup of natural convection water cooled, analog model analysis of, (E/T), 23:40356
startup of thermionic, analysis of transients during, (E/T), 24:36005 (TID-25443)
startup of, poison compensation by absorbers during, 21: 44860 (UJV-1828)
startup parameter of, time-to-power as, 21:15670
status of industrial, summary of 1967, 23:7384
status of world, tabular summary by country of, 22: 22714
steam accumulators for, design parameters and economic aspects of integrated, 25:34398
steam condensers for boiling water, automated air ejectors for, 24:16102
steam cycle for gas-cooled fast breeder, design parameters and flow diagrams for conceptual straight, 23:21507
steam cycle for high temperature gas cooled, effects of variations in turbine parameters on thermodynamics of, 23:28542
steam cycle for, efficiency of Loeffler, 23:17242
steam cycle for, preheating effects on plant economy of, 23:25998 (KFK-816)
steam cycles for 300 MW(e) and 1000 MW(e) liquid sodium cooled fast breeder, analysis of optimum economic, 25:28750
steam cycles for steam-cooled, using the Loeffler principle, 22:16231
steam cycles for, description of saturated, 22:16230
steam cycles in fast sodium-cooled breeder, economics of, 21:17494
steam generating system for, description of compact, 22: 46974(P)
steam generation economics for, 22:4309 (TID-24102)
steam generator costs for large, 21:13946(R) (ANL-7279)
steam generator design for 1000 MW(e), boiler inlet header steady state and thermal transient stress analysis for sodium-heated, 22:42174 (BW-67-2(App.)(Vol.5))
steam generator design for 1000 MW(e), boiler outlet header steady state and thermal transient stress analysis for sodium-heated, 22:42175 (BW-67-2(App.)(Vol.6))
steam generator design for 1000 MW(e), functional engineering calculations for sodium-heated, 22:42182 (BW-67-2(App.)(Vol.13))
steam generator design for 1000 MW(e), reheater stress calculations for sodium-heated, 22:42173 (BW-67-2(App.)(Vol.4))
steam generator design for 1000 MW(e), sodium inlet nozzle fatigue analysis for sodium-heated, 22:42179 (BW-67-2(App.)(Vol.10))
steam generator design for 1000 MW(e), sodium inlet nozzle steady state stress analysis for sodium-heated, 22:42180 (BW-67-2(App.)(Vol.11))
steam generator design for 1000 MW(e), sodium inlet nozzle thermal transient stress analysis for sodium-heated, 22:42181 (BW-67-2(App.)(Vol.12))
steam generator design for 1000 MW(e), stress calculations for sodium-heated, 22:42170 (BW-67-2(App.)(Vol.1))
steam generator design for 1000 MW(e), stress calculations for sodium-heated, 22:42171 (BW-67-2(App.)(Vol.2))
steam generator design for 1000 MW(e), superheater outlet header steady state stress analysis for sodium-heated, 22:42177 (BW-67-2(App.)(Vol.8))
steam generator design for 1000 MW(e), superheater inlet header steady state and thermal transient stress analysis for sodium-heated, 22:42176 (BW-67-2(App.)(Vol.7))
steam generator design for 1000 MW(e), superheater outlet header thermal transient stress analysis for sodium-heated, 22:42178 (BW-67-2(App.)(Vol.9))
steam generator design for 1000 MW(e), TEMA calculations, nozzle loading calculations, and steady state calculations for tube sheets for sodium-heated, 22:42172 (BW-67-2(App.)(Vol.3))
steam generator design for sodium-cooled, 21:26048 (NAA-SR-8508)
steam generator development for, review of, 23:19519
steam generator for dual purpose desalination and, analog model for simulation of, 24:38619
steam generator for fast breeder, design of 527 MW(t) sodium-heated, 22:35465 (KFK-654)
steam generator for liquid metal cooled, design of, 23: 37607(P)
steam generator for, design and fabrication of sodium-heated, 21:8495(R) (BAW-1280-40)
steam generator for, design of improved, 24:2350(P)
steam generator for, design of improved, 24:2349(P)
steam generator for, redesign recommendations for sodium-heated, 22:27398(R) (BAW-1280-50)
steam generator in high-temperature gas-cooled, analog control studies for, 21:7870 (GAMD-6992)
steam generator types for, description of indirect cycle, 22:37454
steam generators for high temperature gas cooled, development in U.S. of, 25:31623 (GA-10338)
steam generators for liquid metal-cooled, design studies for, 22:37443 (ITN/RF-1.1.1)
steam generators for pressurized-water, technical and economic comparison of, 22:42270
steam generators for, design of improved, 24:47889(P)
steam generators for, development of once-through, 24: 46077
steam generators for, MEDEA code for pressure and temperature distribution in helium—water, 25:31624 (JUL-698-RG)
steam generators for, survey of various designs of, 25: 8113
steam line for, configuration of turbine flow valve and quick-acting valves in dual by-pass, 22:48664(P)
steam line isolation valves for boiling, safety aspects of Y-pattern globe type, 23:21500
steam line rupture in boiling pressurized-water, theoretical analysis of, 21:27724
steam lines for boiling water, production of isolation valve for, 24:16099
steam lines for large boiling water, performance under coolant loss accident conditions, 23:47094 (APED-5750)
steam plants for, operation of associated, 21:30188
steam regeneration in water cooled, method for analysis of optimum conditions for, 23:47199
steam reheater units for, with U-shaped tube banks in concrete pressure vessel walls, 25:12810(P)
steam separation in 600 MW(e) boiling water, development of gravity-type cyclones for, 22:3826(R) (EURAEC-1900)
steam separator for 600 MW(e) boiling, calculation of optimum design parameters for downflow cyclone-type, 23:17238(R) (EURAEC-2048)
steam separator for water cooled, design parameters and operation characteristics of trap cyclone, 25:20769
steam separator system for water cooled, 25:20743(P)
steam separators for BWR, design parameters for, 22: 25013
steam separators for, design and testing of radial vane, 22:48981(R) (GEAP-5655)
steam separators for, design and testing of radial vane, 22:48980(R) (GEAP-5567)
steam supply systems for, standards for performance testing of, 25:34344
steam system for, problems and requirements for standardization of turbine-generators for, 24:18607
steam systems for, method of condensate treatment in, 22:24983
steam turbine cycle for, ORCENT computer program for analysis of saturated and low superheat, 23:13415 (ORNL-TM-2395)
structural components of, strength, ductility, and resistance-deflection characteristics of, 23:11116 (HN-189(Rev.))
structures and systems for, effects of seismic criteria on designs for Class I, 24:18531
structures for, analytical methods for calculating earthquake loadings and dynamic response of, 22: 53283(T) (ORNL-tr-1940)
structures for, earthquake stress resisting design requirements of Class 1, 25:57108
structures for, finite element method for stress analysis of, 25:60142
structures for, methods of designing earthquake-resistance into, 22:53283(T) (ORNL-tr-1940)
structures for, vibratory response and differential displacement during earthquakes and fault slippage of, 23:11116 (HN-189(Rev.))
superheaters for, valve for regulation of steam pressure to fossil fuel-fired, 22:53325(P)
support structures for, design of earthquake resistant, 25: 54151 (A/CONF.49/P-672)
surface water heating from, effects on environment of present and projected future, 23:4160
surveillance in Italy, description of equipment and procedures for on-load, 25:53930 (A/CONF.49/P-171)
surveillance program for, description of proposed pressure vessel and component, 22:53341
survey of dual-purpose desalination and, 22:10056
survey of French, general, 22:10017
survey of, throughout world, 21:7889 (NP-16408)
table of French, 23:4171 (NP-17597, pp 41-73)
tables for world-wide listing of, twentieth periodic summary, 23:1980 (NP-17648)
tables of operating and planned, in IAEA member countries, 22:35550
tables of operating and planned, of IAEA members in 1969, 23:40282
tables of, worldwide, 25:25850
tabular summary of, in United Kingdom, 23:13380
tabulation and description of German, 23:21456
tabulation by type and country of EURATOM, 23: 52291
tabulation of German, 23:49530
technologic experience and problems with liquid sodium cooled fast, summary of, 23:11152(T) (AEC-tr-6974)
technological and economic aspects of, 22:1799
technological developments in, journal on, 21:31983
technology of water-cooled and water-moderated, review of, 22:12049
temperature distribution in natural uranium graphite, problems with measurements of, 21:27752
temperature fluctuations in non-equilibrium, analysis of, (T), 23:2027
temperature measurements in, development of microwave techniques for, 25:48244 (HEDL-SA-122)
temperature transients in, analysis with no time reversibility for, (T), 25:1959
testing of German, legal requirements and standards for, 22:48704
testing of systems and equipment for St. Denis, pre-neutron, 21:23632
testing of U.S.S.R. Topaz, with thermionic converter, 25:54044 (A/CONF.49/P-852)
testing of, discussion of methods for on-line, 22:22748
testing program for, reference safety analysis report for, 25:54158 (DOCKET-RESARA-5)
thermal discharges from, proposed procedure for evaluating effects of liquid, 23:28382
thermal effects on surface waters, control of, 23:40869
thermal efficiency of CANDU type, economic effects of improvements in, 23:45094 (AECL-3332)
thermal effluents from, effects in Germany on surface water of, 23:52294
thermal effluents from, establishment of information sources for, 24:33223
thermal effluents from, fog control by utilization of, 25: 5886
thermal effluents from, legal aspects on effects on environment and public safety of, 23:17148 (BNWL-SA-2279)
thermal effluents from, model for probability of damage to migrating fish from, (T), 25:46283
thermal effluents from, studies for effects on environment of, 24:33226
thermal effluents from, surface water hazard analysis for, 24:20540
thermal effluents from, use for irrigation of farmlands of, 24:46010
thermal effluents in U. S. from, conference on possible environment changes caused by, 24:26709 (CONF-690952)
thermal insulation for gas cooled, effects of helium atmosphere on free convection in porous medium and metal, (E/T), 23:37491
thermal insulation of, calculation of temperature distribution in, (T), 24:26760
thermal output of, calculation from measured electrical output data, 25:21303
thermal shielding for, design of boron-containing cast iron, 21:46989(P)
thermionic converter cells for space, use of reflectors and vapor chamber condensers in, 25:60197(P)
thermionic converter for, design of, 21:2909(P)
thermionic converters for power supplies for space vehicles, development of collector and emitter multilayer systems for, 24:16255(T) (N-69-40593)
thermionic converters for, in-pile lifetime measurements on SIRENE, 23:15669 (CEA-CONF-1042)
thermionic converters in core of, description of heat pipe cooled hermetically sealed coaxial, 23:45056(P)
thermodynamic cycles for optimum, use of Stirling, 23: 9192
thermodynamic efficiency of, improvements for, 21: 25682(P)
thermodynamic performance of, optimization criteria for, 23:25998 (KFK-816)
thermodynamics of 500 MW(e) boiling heavy water, 25: 15344
thermodynamics of heavy water moderated carbon dioxide cooled, effects of core configuration on optimum, 24:35998
thermohydraulic performance of ORGEL-type, PERFOR I computer program for, 23:15598 (EUR-4193)
transfer function of, pseudo random binary sequence and Fourier transformation measurement techniques for, 24:43708 (AECL-3601)
transfer functions of coupled, high frequency measurements of, 21:17457 (LA-DC-8299)
transients in low-power thermionic, analog computer simulation of, 21:19453
tritium generation and control in water cooled, review of, 23:28526
tritium release from, effects on and distribution in ecosystems of, 25:48230
turbine cycles for high temperature gas-cooled, use of gas, 21:34097 (EUR-2757.e, pp 331-)
turbine cycles for integrated carbon dioxide cooled fast breeder, design characteristics of direct and indirect, 23:28539
turbine cycles in, economics of gas, 21:34098 (EUR-2757.e, pp 353-)
turbine design for British, review of, 22:18487
turbine design for high-temperature gas-cooled, 21: 15742
turbine design for water-cooled, 21:7982
turbine design for water-cooled, 22:16230
turbine design for water-cooled, 21:7905
turbine design for, basic parameters of, 22:18490
turbine development for gas-cooled, potential of direct cycle gas, 21:10163
turbine for carbon dioxide cooled, design parameters for closed cycle gas, 24:50176(P)
turbine for water-cooled, design of saturated steam, 22: 18492
turbine for, design parameters of closed cycle carbon dioxide gas, 25:10250(P)
turbine for, design parameters of closed cycle carbon dioxide gas, 25:10249(P)
turbine generator costs for large, 21:13946(R) (ANL-7279)
turbine plant studies for dual-purpose, 22:3813(R) (AI-CE-54)
turbine speed control system for, design of load-following, 25:51059(P)
turbine steam flow in, bypass lines for control of, 21: 5646(P)
turbine uses in, conference on gas, 21:34084 (EUR-2757.e)
turbine-generator cycles for large, method for performance prediction of, 22:16229
turbine-generator for, effects of rpm on performance of, 23:40383
turbine-generator performance with intermediate superheating and saturated steam conditions in, 23: 40382
turbine-generator sets for, evaluation of heat rate performance of, 23:28402
turbines for 1200 MW(e) helium cooled, design requirements for integrated direct cycle gas, 25:20778
turbines for boiling and pressurized-water, design problems for optimum saturated-steam, 23:19518
turbines for carbon dioxide, design parameters for, 23: 28545
turbines for direct cycle high temperature gas cooled, design parameters for gas, 23:28544
turbines for dual-purpose desalination-power, costs and performance of, 21:5632 (SL-2317)
turbines for gas cooled, comparison of design requirements for closed cycle carbon dioxide and helium gas, 23:37604
turbines for gas cooled, comparison of operation of carbon dioxide, helium, and neon gas, 23:37605
turbines for gas cooled, description of direct cycle gas, 23:40281(P)

turbines for gas cooled, development of closed cycle gas, 25:20690
turbines for gas cooled, development testing of closed cycle gas, 23:37602
turbines for gas cooled, effects of design on economics of gas, 23:37603
turbines for gas cooled, enthalpy-entropy diagrams for helium, 23:28537
turbines for gas-cooled, development of, 22:18488
turbines for helium cooled, design problems for direct cycle gas, 24:50177
turbines for helium cooled, design requirements for direct cycle gas, 25:20772
turbines for helium cooled, design requirements for integrated direct cycle gas, 25:20774
turbines for helium cooled, development of direct cycle gas, 25:20771
turbines for helium cooled, development of indirect cycle carbon dioxide, 25:20773
turbines for helium cooled, development problems for integrated gas, 23:28543
turbines for helium-cooled fast, effects of intermediate cooling on efficiency of, 23:47669 (EIR-156)
turbines for helium-cooled high-temperature, development of optimum, 23:17240
turbines for high temperature gas cooled, efficiency of direct cycle, 23:28546
turbines for high temperature gas cooled, high temperature, performance of control system for helium gas, 23:37485
turbines for high temperature helium cooled, behavior under normal and special operating conditions of helium, 23:28366
turbines for high-temperature gas-cooled, development potential for direct-cycle carbon dioxide, 23:17239(T) (ORNL-tr-3013)
turbines for high-temperature gas-cooled, performance of closed-cycle gas, 22:39821
turbines for high-temperature gas-cooled, performance of helium, 23:15562
turbines for high-temperature gas-cooled, problems with optimum design of direct-cycle helium, 23:15670(T) (ORNL-tr-3011)
turbines for high-temperature helium-cooled, design problems for closed-loop gas, 23:26064
turbines for integral gas cooled, analysis of optimum economic design parameters for gas, 23:43142
turbines for Pakistan 138.6 MW(e) heavy water-moderated, description of wet steam-driven, 23:9105
turbines for pressurized-water, description of steam, 23:9103
turbines for superheating, description of closed loop dual purpose in-core, 23:23870(P)
turbines for, description of saturated-vapor, 22:35511
turbines for, design characteristics of large saturated steam, 24:9138
turbines for, design of low-pressure steam, 25:18165
turbines for, design of saturated steam, 22:18489
turbines for, design of saturated steam, 22:18491
turbines for, design problems of wet steam, 25:3899
turbines for, development of direct-cycle helium, 21:42766
turbines for, development of high temperature gas, 24:22444
turbines for, economics and operating characteristics of gas, 24:9137
turbines for, part load performance of direct cycle gas, (T), 25:10251
turbines for, performance of direct and indirect cycle carbon dioxide, 23:26065
turbines for, summary of ENEA symposium papers on development of, 23:6008
turbines for, water separation problem in wet steam, 25:1917
turbines in helium cooled, comparison of safety characteristics for 20 MW(e) non-integrated and 600 MW(e) integrated gas, 23:28529
turbo-compressor labyrinth gland and shaft bearing for gas-cooled, description of, 22:42278(P)
turbomachinery for closed-cycle MHD, engineering problems of, 22:37503
underground construction of, economics and safety aspects of, 25:54144 (A/CONF.49/P-290)
uranium enrichment requirements for Swiss, forecasts to 1990 of, 25:34819
uranium requirements for Swiss, forecasts to 1990 of, 25:34755
uranium requirements for US, review of, 23:45420
use for electricity production, summary and economics of future, 22:48649 (NEB-SS-21)
use in MHD power plants for marine applications, 21:2077 (TID-23318, pp 173-86)
use in space applications of thermionic, 22:3882
use of coaxial core high temperature helium cooled and carbon dioxide cooled AGR type, for electricity and steel production, 24:9154
use of fast, in planned USSR electricity generating system, 23:52306(T) (JPRS-48330, pp 6-11)
use of, effects on air pollution reduction by, 23:15662
use with magnetohydrodynamic generators for power production, 25:24939 (JUL-689-TP)
use with magnetohydrodynamic generators, review of, 25:11752
uses for desalination in USSR, 21:35659(T) (AEC-tr-6885)
uses for production of plutonium-238, economic studies of, 24:39139(R) (BNWL-1308-2)
uses in underdeveloped countries, review of potential for, 24:16137
uses of dual-purpose power-desalination, in chemical and metallurgical industries, 21:1204 (ORNL-TM-1561)
utility commitments for light water, tabular summary as of October 1967, 22:44841 (WASH-1082)
valves for large boiling water, design of steam line isolation, 23:47094 (APED-5750)
valves for, design criteria for, 22:27416(R) (ORNL-4228)
valves for, design requirements for control and shut-off, 23:17196
valves for, standards for in-service testing of, 25:34394
ventilation of heavy water moderated, calculation of design requirements for, 24:20572
vulnerability to nuclear explosions, civil defense aspects of, 24:410(R) (ORNL-4413(Pt.1))
waste disposal from, methods for, 21:38587
waste disposal from, methods for high-level, 23:9678 (CONF-671072-1)
xenon dynamic behavior in large, analysis of three-dimensional zonal control system for, 24:7099
xenon induced spatial power oscillations in, three dimensional calculational method for, 24:46111
xenon instabilities in pressurized water, control of spatial, 24:16174(R) (WCAP-3680-9)
xenon oscillations in heavy water gas cooled natural uranium, difference equations for describing, 22:16162 (UJV-1860)
xenon oscillations in large PWR, computer code simulation of three-dimensional control of, 24:7337
xenon oscillations in large water cooled, summary of experience with, 24:7027
xenon oscillations in water moderated thermal, effects of core parameters on spatial, (T), 25:8057 (NP-18548)
xenon oscillations in, analysis and control of spatial, (E/T), 24:47829
xenon oscillations in, method for calculating, 21:38562
xenon oscillations in, one dimensional calculation of stability margin for, (T), 24:24810 (BAW-10010(Pt.2))
xenon oscillations in, operation procedures for control of, 24:33277 (DUN-SA-133)
xenon oscillations in, use of variational calculus for mathematical models describing, 24:7336
xenon spatial stability for large, verification of criterion for, 23:4441
xenon stability in high temperature gas-cooled, nonlinear analyses of, 21:1161 (GAMD-6924)
xenon transients in large thermal, numerical characteristics of, 22:32882
xenon transients in large, modal expansion technique for analysis of, 23:31225 (TID-25062)
xenon-power spatial transients in thermal, use of three-dimensional model for optimum control sequence of, (E/T), 22:39931

REACTORS, PRESSURIZED-WATER
see also Aguirre Power Reactor, Unit 1
see also Army Reactors (MH-1)
see also Army Reactors (PM-1)
see also Army Reactors (PM-2)
see also Army Reactors (PM-3)
see also Army Reactors (SM-1)
see also Atucha Power Reactor
see also Beaver Valley Power Reactor, Unit 1
see also Belgian Reactor-3
see also Beznau Power Reactor, Unit 1
see also Biblis Power Reactor
see also Borssele Power Reactor
see also Calvert Cliffs Power Reactor, Unit 1
see also Calvert Cliffs Power Reactor, Unit 2
see also Carolinas-Virginia Tube Reactor
see also Connecticut Yankee Power Reactor
see also Crystal River Power Reactor, Unit 3
see also Crystal River Power Reactor, Unit 4
see also Davis-Besse Power Reactor
see also Diablo Canyon Power Reactor, Unit 2
see also Doel Power Reactor
see also Donald C. Cook Power Reactor, Unit 1
see also Donald C. Cook Power Reactor, Unit 2
see also Forked River Power Reactor, Unit 1
see also Fort Calhoun Power Reactor, Unit 1
see also H.B. Robinson Power Reactor, Unit 2
see also Hutchinson Island Power Reactor, Unit 1
see also Hutchinson Island Power Reactor, Unit 2
see also Indian Point Power Reactor, Unit 1
see also Indian Point Power Reactor, Unit 2
see also Indian Point Power Reactor, Unit 3
see also Jose Cabrera Power Reactor
see also Joseph M. Farley Power Reactor, Unit 1
see also Joseph M. Farley Power Reactor, Unit 2
see also Kewaunee Power Reactor
see also Kolmsk Power Reactors
see also Kyushu Power Reactor, Unit 1
see also Loviisa Power Reactor
see also Mc Guire Power Reactor, Unit 1
see also Mc Guire Power Reactor, Unit 2
see also Maine Yankee Power Reactor
see also Malibu Power Reactor
see also Maritime Pressurized-Water Reactor
see also Midland Power Reactor, Unit 1
see also Midland Power Reactor, Unit 2
see also Mihama Power Reactor, Unit 1
see also Mihama Power Reactor, Unit 2
see also Mutsu Reactor
see also Naval Reactors
see also North Anna Power Reactor, Unit 1
see also North Anna Power Reactor, Unit 2
see also North Anna Power Reactor, Unit 3
see also North Anna Power Reactor, Unit 4
see also Novo Voronezh Power Reactor, Unit 1
see also NWK Reactor
see also Obninsk Power Reactors
see also Obrigheim Power Reactor
see also Oconee Power Reactor, Unit 1
see also Oconee Power Reactor, Unit 2
see also Otto Hahn Reactor
see also Oyster Creek Power Reactor, Unit 2
see also Palisades Power Reactor
see also Point Beach Power Reactor, Unit 2
see also Prairie Island Power Reactor, Unit 1
see also Prairie Island Power Reactor, Unit 2
see also Rancho Seco Power Reactor
see also Reactors, Boiling
see also Rheinsberg Power Reactor
see also Robert E. Ginna Power Reactor, Unit 1
see also Salem Power Reactor, Unit 1
see also Salem Power Reactor, Unit 2
see also San Onofre Power Reactor, Unit 2
see also San Onofre Power Reactor, Unit 3
see also Savannah River Components Test Reactor
see also Savannah River Power Reactor Experiment
see also Saxton Power Reactor
see also Seabrook Power Reactor, Unit 1
see also Seala Power Reactor, Unit 1
see also SENA Power Reactor
see also Shearon Harris Power Reactor, Unit 1
see also Shearon Harris Power Reactor, Unit 2
see also Shearon Harris Power Reactor, Unit 3
see also Shearon Harris Power Reactor, Unit 4
see also Shippingport Pressurized-Water Reactor
see also Spectral-Shift Control Reactor
see also Stade Power Reactor
see also Submarine Reactors (S1C)
see also Surfside Reactor
see also Surry Power Reactor, Unit 2
see also Takahama Power Reactor, Unit 1
see also Three Mile Island Power Reactor, Unit 1
see also Tihange Power Reactor
see also Trojan Power Reactor, Unit 1
see also Virgil C. Summer Power Reactor, Unit 1
see also Vulcain Maritime Reactor
see also Waterford Power Reactor, Unit 3
see also Waterford Power Reactor, Unit 4
see also Watts Bar Power Reactor, Unit 1
see also Watts Bar Power Reactor, Unit 2
see also Yankee Power Reactor
see also Zion Power Reactor, Unit 1
see also Zion Power Reactor, Unit 2
see also Zorita Power Reactor
accident analysis for, 21:38438(R) (BMI-1810)
accident analysis of, methods used in U.S., Canada, and U.K. for, 22:30195
accidents in 1000 MW(e), calculation of coolant flow requirements for core failure, 23:4270(R) (BMI-1850)
accidents in 1000 MW(e), comparison of economic and biological risk for design basis, 25:60003
accidents in power, energy release for rod ejection, 25:6081
accidents in urban sited 3200 MW(t), risk estimates for, 25:51014
auxiliary power systems for, performance requirements for standby diesel, 23:31173
behavior of, effect of loss of coolant flow on, 21:39114 (TID-23986)
bibliography on, 24:47688 (NEIC-RR-39)
bibliography on foreign and domestic power, 23:19400 (BNWL-936(Vol.2))
bibliography on power, 22:44841 (WASH-1082)
blowdown analysis in power, simulation of double-ended pipe rupture for. (E/T), 23:15665
blowdown characteristics for, effects of pressure vessel with perforated sieve plate separator on, 25:26001 (BNWL-1463)
blowdown conditions in, BRUCH-D computer program for analysis of, 24:24871
blowdown in, one-dimensional approximation for inlet pipe failure-initiated annular region, (E/T), 23:19512(R) (IDO-17266)
blowdown in, pressure profiles in emergency core cooling system during, 24:22427(R) (IDO-17303)
blowdown in, pressure vessel liquid level during, (E/T), 24:7159
blowdown in, transient wave propagation phenomena in, (E/T), 23:28508 (EUR-4101, pp 89-123)
blowdown in, WHAM code evaluation of semiscale subcooled, (E/T), 25:6061 (IN-1431)
blowdown pressure transients for power, comparison of LOFT-quarter-scale experimental and WHAM-calculated, 23:37366 (CONF-690609-8)
blowdown pressure transients in, WHAM code model for simulation of, (E/T), 23:52382(R) (IDO-17267)
blowdown simulation programs for, considerations in establishing, 23:37578
blowdown test data for, 21:7966
boiler for, description of fabrication and facility control of, 22:53310
boiler materials for, corrosion testing of, 22:32835
boilers for power, development of, 24:29010
boilers for, comparison of optimum design parameters of, 23:31164
boilers for, description of helical strip spaced parallel tubes in, 24:24828(P)
boilers for, effects of design parameters on heat transfer characteristics of once-through, 25:18252
boilers for, summary of operations experience with, 22:32839
boiling in, design of equipment for detection of, 21:20014(P)
book: Thermal Analysis of Pressurized Water Reactors, 25:12791
chemical concentrations in, time behavior equations for determination of, 21:12157 (WAPD-TM-646)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
component stress and deflection under maximum earthquake conditions, internal, (T), 24:38568 (BAW-10008(Pt.1)(Rev.1))
components testing for, design and operation of facility for, 23:17659
configuration of Japan 36 MW(t) maritime, reference design, 22:46994
configuration of marine, description of optimum economic, 22:46992
configuration of power, review of economic and operational advantages in, 22:48692
construction in industrialized and developing countries, cost variations for, 24:28911
construction of large power, development of technology for, 25:18116
construction of power, problems of, 23:47149
construction of, summary of advantages of, 23:13378
containment atmospheres in, spray additive system for fission product removal from, 24:38555 (CONF-700608-4)

containment buildings and equipment for, evaluation of protective coatings for, (E), 25:12804 (ORNL-TM-3104)
containment buildings for, evaluation of protective coatings for, 22:42191 (IN-1169)
containment cooling sprays for, efficiency of, 22:46912 (ORNL-NSIC-25)
containment spray additive systems for, design characteristics of, 24:33338
containment spray solutions for, stability during coolant loss accidents of sodium thiosulfate, (E), 25:25996
containment spray solutions for, stability during coolant loss accidents of sodium thiosulfate, (E), 25:25994
containment spray system for, radiolytic hydrogen generation by, 25:34392(R) (ORNL-4647)
containment spray systems for, design considerations for, 23:31172 (ORNL-TM-2412(Pt.1))
containment spray systems for, development programs for, 24:33337
containment spray systems for, dose reduction factor for elemental iodine removal by, (E/T), 25:37029 (ORNL-TM-2412(Pt.12))
containment spray systems for, drop size distribution and effectiveness in, 24:33339
containment spray systems for, post-accident iodine removal effectiveness of, (E), 25:25992
containment sprays for, analysis of iodine removal, 25:10238(R) (BMI-1890)
containment sprays for, radiation and thermal stability of, 24:33341
containment structures for 800 MW(e), analysis of U.S.A. design requirements for optimum prestressed concrete, 22:53317
containment structures for power, design modifications of pressure suppressing single and double shell, 23:40375(P)
containment structures for, comparison of, 23:43104
containment structures for, CONTEMPT computer program parametric analysis for pressure responses of, 23:40374 (IDO-17300)
containment structures for, description of double-vessel non-return pressure-vented, 22:16335(P)
containment structures for, description of pressure suppressing double wall hemispherical dome, 23:52365(P)
containment structures for, development of spray systems for removal of fission products from, 25:60086
containment structures for, evaluation of sprays and charcoal filters for iodine removal from, 23:29126
containment structures for, performance of protective paint coatings for, 24:33347
containment structures for, reference design for prestressed concrete, 25:51133 (BC-TOP-5)
containment structures for, review of design variations in, 24:4010
containment structures for, test procedures for evaluation of protective coatings on, 23:19513 (IN-1253)
containment structures of, development of high efficiency emergency spray sorption system for, 23:23940 (ORNL-4360)
containment system for, description of ice condensers, 25:54121(P)
containment system for, description of pressure chamber and melting ice pressure suppression, 22:48674(P)
containment system for, description of pressure suppressing and steam condensing, 25:12802(P)
containment system for, design of valve regulated pressure suppression, 24:38563(P)
containment system for, development of ice condenser for pressure suppression in, 24:20590
containment system for, estimated radiolytic hydrogen produced by spray and coolant decomposition in, 22:42160(R) (BMI-1844)
containment system for, iodine deposition on coatings for, 22:22657(R) (BMI-X-10222)
containment system for, leak rate measurements for ice condenser pressure suppression, 24:47877 (ANL-7610, pp 259-367)
containment system for, parametric studies of pressure-temperature response during coolant loss accidents of, 23:11256(R) (IDO-17265)
containment system for, refrigeration system and thermal insulation for ice condenser, 25:28700(P)
containment system of, review of research and development programs for sprays for, (E), 24:22442
containment systems for power, development of borated ice condenser for, 24:22375
containment systems for power, evaluation of missile generation and protection in, 23:33073
containment systems for power, evaluation of testing of, 22:46913 (ORNL-NSIC-26)
containment systems for, detailed analysis of earthquake resistant designs for, 22:37440 (HN-192)
containment systems for, effects of coolant loss accident conditions on iodine and xenon distribution in, (E), 25:51107 (IN-1394)
containment systems for, natural transport effects on fission product removal from, (E/T), 25:12803 (BNWL-1457)
containment systems for, parametric analysis of pressure-temperature response of, 23:37580
containment systems for, summary of safety features of air-cleaning equipment for, 22:46912 (ORNL-NSIC-25)
containment systems of, performance during coolant loss accident conditions of, (E), 25:54155 (BNWL-1592)
containment vessels for, description of concrete-shield steel-shell, 22:32868
containment vessels for, description of water-cooled non-return vented double-vessel, 22:16234(P)
containment vessels for, design of pressure safety equipment for, 21:46924(P)
containment vessels for, effects of post-accident pressure and temperature transients on, (E/T), 25:10232
containment vessels for, evaluation of safety of, 22:30195
control element drives for, design parameters and performance testing for, 24:36008 (BAW-10007(Suppl.1))
control elements for power, design parameters of independent two position, 24:47843(P)
control elements for, description of gas cooled thimble type, 25:36997(P)
control elements for, description of locking system for movable pin type, 23:31160(P)
control elements for, dynamic programming for optimum performance of rod type, (E/T), 24:11320
control elements for, solid-state drive system for, 25:60066
control fluids of, radiation detector system for monitoring effectiveness of chemical, 25:54069(P)
control of self pressurized, analog computer simulation for methods of, 24:52864
control of, development of boron concentration meters for chemical shim, 22:16939(R) (WCAP-3690-3)
control of, linear programming of hybrid computers for optimal trajectories in, 24:38507
control of, model for optimal, 24:31054
control of, spectral shift, 21:35763
control of, stabilization procedures for xenon oscillations affecting, 21:19391 (WCAP-2921)
control rod drive for, description of internal and external pressurized-water hydraulic, 22:35503(P)
control rod drive for, testing of roller nut type, 24:31049 (BAW-10007)
control rod drive mechanism for hermetically-sealed, description of dual-sealed rod and coaxial tube, 22:25050(P)
control rod drive mechanism for, magnetic, 21:23668
control rod drive system for upward-flow, description of valve-regulated hydraulic, 23:9134(P)
control rod drives for, description of double-sealed pressure equalizing cylinder for, 22:20871(P)
control rod drives for, description of dual interconnected hydraulic piston, 25:10188(P)
control rod drives for, description of part length, 25:28668 (WCAP-7406)
control rod drives for, description of rack and pinion, 25:23266(P)
control rod drives for, static system for activating and regulating, 24:47836
control rod ejection accidents in, kinetics of, (T), 24:43783(R) (BMI-1885)
control rod materials for, summary of properties and performance of, 23:11174
control rod performance in, examination of silver—indium—cadmium, 22:30198
control rod position in, analog monitoring system for, 25:28669 (WCAP-7571)
control rods for power, description of two position fine flux trim, 25:23267(P)
control rods for, description and development of clustered assembly of, 23:25982 (DOCKET-50213-2)
control rods for, design of position indicator for, 22:12512(P)
control rods for, static system for programming and movement of, 24:24816
control solutions of, performance of Duolite ARA-366 in exchange resin for treating boric acid, 24:24815
control system for, design of hydraulic drive for, 21:46932(P)
control system for, design of operation and emergency shutdown drives for, 21:46911(P)
control system for, design requirements of, 25:20551
control system for, design requirements of, 25:28675
control system for, evaluation of optimum, (T), 22:50771
control system for, hybrid computer for feedback controller design in, 24:38506
control system for, optimization of on-line load, 21:10175
control system for, review of, 21:17502
control systems and instrumentation for, description of, 23:28394
control systems for power, development in U.S. of instrumentation for, 25:39163 (IAEA-119, 29p.)
control systems for power, operation requirements of, 23:45062
control systems for power, recent developments in, 23:19481
control systems for power, use of on-line digital process computers in, 24:24694
control systems for, description of, 23:2015
control systems for, description of, 22:42220
control systems for, design parameters of, 24:40943
control systems for, effects of load demand variations on, 21:38579
control systems for, feedback of state variables through constant gain elements for design of optimum, (T), 25:44106
control systems of, effectiveness of, 25:51050
coolant blowdown calculations for, development of branching and merging flow path equations for BURST, 23:11256(R) (IDO-17265)
coolant blowdown in, data acquisition and processing system and test equipment for semiscale, 25:51094 (IN-ITR-202)
coolant blowdown in, mass velocity during simulated, 23:9183(R) (BNWL-816)
coolant blowdown in, pressure transients during simulated, 23:11252(R) (BNWL-926)
coolant blowdown in, pressure transients during simulated, 23:9182(R) (BNWL-754)
coolant blowdown in, semiscale test for hot leg, (E), 25:51136 (IN-ITR-203)
coolant blowdown in, transient and dynamic pressures, temperatures, stresses, flow rates, and hydraulic forces from, (E/T), 25:44133 (BNWL-1524)
coolant boiling effects on stability of, subcooled, (E), 21:7917
coolant boiling in power, acoustic wave technique for monitoring, (T), 25:12779
coolant boiling in, effects on reactivity of, 25:41497
coolant boiling in, methods for optical detection of, (T), 25:41371
coolant channels in, burnout heat flux measurements in, 21:19351(R) (EURAEC-1524)
coolant conditions in, effects on fuel element failures of, (E), 25:41509
coolant flow and heat transfer in, 21:15650(R) (EURAEC-1724)
coolant flow characteristics in, 21:17440(R) (EURAEC-1324)
coolant flow coastdown incidents in, effects on cladding temperatures of, (T), 24:43783(R) (BMI-1885)
coolant flow in parallel-flow rod bundles in, two-dimensional turbulent-flow mixing model for, 22:22875
coolant flow in, analysis of low quality two phase critical, (E/T), 25:8064 (ANL-7740)
coolant flow in, computer program for analysis of pump failure effects on transient, 22:33101 (WAPD-TM-428)
coolant for, automatic boron concentration monitoring system for, 24:31052
coolant for, development of instruments for measuring boron content in, 23:47878(R) (WCAP-3690-5)
coolant for, development of instruments for measuring boron content in, 23:47879(R) (WCAP-3690-6)
coolant for, hydrogen recycle technique for stripping waste gas from, 24:46036
coolant for, meter for determination of boron content in, 24:33299
coolant for, pH reactivity effect from polywater in, (T), 24:11177
coolant heating in, effects of power plant parameters on, (T), 22:48698
coolant leakage in, hazards evaluation of primary-to-secondary, 22:32794
coolant loop failure in, model for calculating subcooled decompression during, 21:44843(R) (IDO-17239)
coolant loop failure in, subcooled decompression time for primary, 21:46906
coolant loop for, description of dual, 22:18538(P)
coolant loop rupture in, acoustic effects of, 21:7964
coolant loops of, design and performance of burst can Cherenkov detectors for operation in, 21:30713
coolant loss accident conditions for 2568 MW(t), multinode computer program analysis of, 25:23305 (BAW-10015)
coolant loss accident conditions in 1000 MW(e), description of semiscale blowdown and emergency core cooling test program for, (E), 24:43770 (IN-1384)
coolant loss accident conditions in, computer simulation of, 25:10238(R) (BMI-1890)
coolant loss accident conditions in, effects of 75 to 100 flow blockage on bottom flooding heat transfer for, (E), 24:43794 (WCAP-5353)
coolant loss accident conditions in, effects of core deformations on cooling system effectiveness during, (E), 24:38569 (CONF-700608-9)
coolant loss accident conditions in, effects on core of, (E/T), 25:57095 (WCAP-7422)
coolant loss accident conditions in, effects on fuel element characteristics of, 25:28737 (IN-1445)
coolant loss accident conditions in, heat transfer characteristics of Zircaloy clad bundles of fuel pins during, (E), 25:60114 (CONF-711103-1)
coolant loss accident conditions in, hydrogen production from radiolysis of containment spray solutions from, (E/T), 24:38571 (CONF-700608-12)
coolant loss accident conditions in, hydrogen production in containment systems from, 24:33379
coolant loss accident conditions in, performance of single and multiple Zircaloy 4 tubes under, (E), 24:33369
coolant loss accident conditions in, performance of emergency core cooling system under, (E), 24:50156 (WCAP-7435)
coolant loss accident in simulated 1000 MW(e), RELAPSE computer program analysis of blowdown for, 23:4272(R) (IDO-17264)
coolant loss accident in, BAM computer program for subcooled fluid depressurization in, 23:4272(R) (IDO-17264)
coolant loss accident in, blowdown phenomena following, (E/T), 23:33060(T) (AEC-tr-7047)
coolant loss accident in, BURST-2 computer program analysis of, 23:4272(R) (IDO-17264)
coolant loss accident in, coolant flow distribution during, 25:6084
coolant loss accident in, nodal sensitivity in modeling, 25:31592 (CONF-710302-8)
coolant loss accident simulation for, effects of pressure and temperature on containment vessel leakage in, 23:4301(R) (BNWL-894)
coolant loss accident simulation in LOFT, core length parameters for, 24:46087 (IN-1391)
coolant loss accidents in power, evaluation of radiation hazards from, 25:28742
coolant loss accidents in Zircaloy-clad uranium oxide (UO_2)-fueled, fission product behavior in, 22:27399(R) (BMI-1835)
coolant loss accidents in Zircaloy-clad uranium oxide (UO_2)-fueled, thermal and hydraulic reactions to, 22:27399(R) (BMI-1835)
coolant loss accidents in, analysis of effects of metal-water reactions during, 22:42202 (ORNL-NSIC-23)
coolant loss accidents in, analysis of radioiodine release from, 25:20756 (CONF-700816-(Vol.1), pp 9-25)
coolant loss accidents in, analysis of radiolytic production of hydrogen during, 22:42160(R) (BMI-1844)
coolant loss accidents in, analytical description of, 22:16108(R) (BMI-1825)
coolant loss accidents in, analytical description of, 25:37036(R) (BMI-1904)
coolant loss accidents in, analytical description of, 25:60111(R) (BMI-1917)
coolant loss accidents in, analytical description of, 24:43783(R) (BMI-1885)

coolant loss accidents in, blowdown and core heatup during, 25:54168
coolant loss accidents in, blowdown characteristics of, (E), 25:51135 (IN-1481)
coolant loss accidents in, BURST program for hydrodynamics calculation of acoustic phenomena during, 22:10001 (IDO-17254)
coolant loss accidents in, burst release of fission products from uranium oxide (UO_2) fuels during, (T), 24:29034(R) (BMI-1881)
coolant loss accidents in, CHEMLOC-II code calculations of metal-water reaction, core heating, and core motion following, 22:27397 (ANL-7375, pp 135-59)
coolant loss accidents in, computer codes for analysis of, 23:37574
coolant loss accidents in, computer program analysis of, (E/T), 25:31598 (WCAP-7401)
coolant loss accidents in, computer program space and time dependent analysis of, 25:54163 (WCAP-7750)
coolant loss accidents in, correlations for prediction of maximum containment pressures following, (T), 25:31593 (CONF-710302-9)
coolant loss accidents in, description of computer program for analysis of, 23:37575
coolant loss accidents in, description of Japanese blowdown test facility for simulating, 22:42267
coolant loss accidents in, digital computer program analysis of, (T), 23:23945
coolant loss accidents in, dissolved gas effects on decompression forces from, 24:16214 (BNWL-SA-2746)
coolant loss accidents in, effects of delayed emergency coolant injection on heat transfer following, (T), 24:43783(R) (BMI-1885)
coolant loss accidents in, effects of pressure drop, power level, and boiling on coolant evaporation following, 23:28503(R) (BMI-1861)
coolant loss accidents in, effects of spray injection strategies on core temperatures following, (E), 24:46072 (WAPD-T-2222)
coolant loss accidents in, evaluation of data for analytical description of, 23:45095(R) (BMI-1867)
coolant loss accidents in, evaluation of data for analytical description of, 24:7141(R) (BMI-1871)
coolant loss accidents in, evaluation of data for analytical description of, 24:16211(R) (BMI-1877)
coolant loss accidents in, evaluation of data for analytical description of, 24:29034(R) (BMI-1881)
coolant loss accidents in, evaluation of recorded data for safety analysis of, 25:18155(R) (BMI-1897)
coolant loss accidents in, FLASH-2 code analysis of subcooled decompression transients during, (E/T), 25:23316 (WAPD-T-2284)
coolant loss accidents in, FLASH-3 code analysis of system thermodynamics and emergency core cooling system performance during, (E/T), 25:23315 (WAPD-T-2114)
coolant loss accidents in, formulation of physical model for determining fuel cladding behavior under, 23:28503(R) (BMI-1861)
coolant loss accidents in, full-length emergency core cooling heat transfer during, 23:28518 (IDO-17258-E)
coolant loss accidents in, guide for evaluation of radiological consequences from, 25:31526 (TID-25697)
coolant loss accidents in, hydrogen generation and control in, (E), 25:23313(R) (ORNL-TM-3263)
coolant loss accidents in, hydrogen generation and control following, (T), 25:26007
coolant loss accidents in, LOFT facility for simulation of, 25:6104
coolant loss accidents in, maximum pressure in dry containment following, (T), 25:41455 (IN-1468)
coolant loss accidents in, methods for reducing fission product concentration in containment vessel following, 22:46912 (ORNL-NSIC-25)
coolant loss accidents in, numerical methods for analysis of pressure waves during, 25:57085 (CONF-710302-(Vol.1), pp 282-95)
coolant loss accidents in, performance of containment systems during, (E), 25:54155 (BNWL-1592)
coolant loss accidents in, pressure and temperature transients from, (E/T), 25:10232
coolant loss accidents in, reactor internals stress and deflection from, (T), 24:38568 (BAW-10008(Pt.1)(Rev.1))
coolant loss accidents in, RELAP3 code predictions of transient pressures and residual water following, (E/T), 25:10242 (IN-1444)
coolant loss accidents in, SEFET Project for radial flow and coolant bypass analysis following, 24:38577 (IN-1387)
coolant loss accidents in, semiscale blowdown tests for analysis of, (E/T), 25:8106 (IN-1404)
coolant loss accidents in, sprays for reducing fission product concentrations in, 25:10491 (ORNL-4636, pp 20-33)
coolant loss accidents in, thermodynamics of blowdown and emergency core cooling during, (E), 25:1910 (IN-1393)
coolant loss conditions for, analysis of radiolytic production of hydrogen in, 23:28528
coolant loss conditions for, effects of dissolved nitrogen on decompression in, (E), 24:7160
coolant loss conditions in 1000 MW(e), analysis of blowdown during, (E), 25:1909 (IN-1348)
coolant loss conditions in power, comparison of calculation methods for mass and energy distribution for, 24:47881(R) (IN-1320)
coolant loss conditions in, calculation of critical flow for, (T), 24:7163
coolant loss in, effects on Zircaloy 4 tubes of, 24:22427(R) (IDO-17303)
coolant losses in, computer blowdown analysis of, 21:44859 (TID-24031)
coolant losses in, evaluation of containment systems performance during, 22:5978
coolant losses in, space-dependent analysis of, 22:5977
coolant of, calculation of local void boiling distribution for, (T), 25:5969
coolant pipe rupture in, extent and initiation of primary, 22:646(R) (BMI-1817)
coolant pipe rupture in, initiation and extent of, (E), 21:44959(R) (BMI-1813)
coolant pipes for, blowdown measurements for simulated breaks in, 24:44185 (BNWL-1411)
coolant pipes in, effects of defect size on ductile rupture of, 21:14816(R) (BMI-1793)
coolant pump for, description of detachable externally driven pressure vessel enclosed, 23:31162(P)
coolant pumps for, design of support system for, 24:45846
coolant systems for, crack initiation and propagation in pipes of, 24:2914(R) (BMI-1873)
coolant systems of, efficiency of leak detection methods for on-line monitoring of primary, 22:6680 (SNE-36)
coolant thermodynamic and transport properties, computer program for analysis of, 21:38472 (WAPD-TM-680)
coolant void detection in high-temperature, description of dual concentric aluminum oxide (Al_2O_3) cylinders with coil winding for, 23:7909(P)
coolant water chemistry in hermetically sealed, 22:26029 (ORNL-4229, pp 71-83)
coolant-loss accident model of, evaluation of existing data for, 21:7859(R) (BMI-1777)
coolant-loss accidents in, lumped parameter bubble-rise model of, 21:7965
coolants for, development and evaluation of boron concentration meters for analyzing, 22:16939(R) (WCAP-3690-3)
coolants for, evaluation of data on density of two phase mixtures in, 23:26123
cooling channel heat transfer characteristics during coolant loss accidents in, (E/T), 23:45095(R) (BMI-1867)
cooling channels for, effects of design parameters on heat transfer characteristics of, 25:18252
cooling loop failures in, subcooled pressure gradient calculations following primary, 22:5975
cooling system burnout in, Freon loop for simulation of fluid mechanics and thermodynamics of, 22:39733 (AAEC/TM-441)
cooling system comonents form requirements and responsibilities of ASME code for inservice inspection of, 24:18642
cooling system components for, probability of failures of, 24:52890
cooling system corrosion in, effects of water purification on, 22:3844 (ORNL-4173)
cooling system corrosion in, methods for inhibiting, 25:39998
cooling system design for, 21:35639(P)
cooling system failures in, analysis of subcooled pressure gradients from, (T), 22:32766 (IDO-17243)
cooling system for dual-pressure vessel, description of U-shaped tube bank for integral vapor-generating, 22:39842(P)
cooling system for power, analysis of earthquake resistant design criteria for components of, (E/T), 25:10248
cooling system for steam- and water-cooled, description of multi-zone core two phase, 22:37493(P)
cooling system for superheating, description of separated flow path, 23:45073(P)
cooling system for, arrangement of heat exchanger-connected and bypassed water filter and purifier for, 23:11247(P)
cooling system for, description of 140 atm test loop for, (E/T), 22:24956(R) (EURAEC-1997)
cooling system for, description of automatic control and stabilization, 23:6006(P)
cooling system for, description of core-encircling closed-loop, 22:20887(P)
cooling system for, description of integrated pressure and temperature controlled, 22:20888(P)
cooling system for, description of two-cycle, 22:53310
cooling system for, description of valve-regulated by-pass flow for multiple parallel-connected boilers in, 23:4212(P)
cooling system for, design of improved, 21:8006(P)
cooling system for, design of iron oxide Fe_3O_4 columns for water purification in, 23:49769 (ORNL-TM-2667)
cooling system for, experimental determination of blowdown-induced strains in simulated, 23:37577
cooling system for, performance of safety and relief valves in, 24:46037
cooling system for, stable numerical integration of conservation equations for flow transients in, (T), 25:12793
cooling system for, water chemistry in, 24:14646 (ORNL-4400, pp 57-68)
cooling system heat transfer, effects of mixing in parallel channels on, 21:21634(R) (EURAEC-1770)
cooling system in Canada of heavy water cooled, design requirements for downflow thermal siphoning, 24:20559
cooling system of 400 MW(t) and 1000 MW(e), corrosion product radioactivity in, 25:5986
cooling system of power, description of electric heated pressure regulating device for primary, 24:4054(P)
cooling system of, analysis of corrosion products in primary, 24:16183
cooling system of, decontamination of carbon steel piping in, 24:47932 (BNWL-CC-2659)
cooling system of, description of pressure vessel-contained core and boiler for closed cycle, 23:9142(P)
cooling system of, effects of blowdown conditions on, (E), 24:22427(R) (IDO-17303)
cooling system of, failure characteristics of primary pumps for, 24:13556
cooling system of, use of alkaline permanganate and citrate—oxalate acid solution for decontamination of primary, 21:24140
cooling system of, use of nozzle for water jet circulation in, 22:37494(P)
cooling system pipes of, fracture mechanisms of steel, primary, 22:45763(R) (BMI-1847)
cooling system pressure and temperature of, following primary rupture, 21:12176
cooling system transients for self-pressurized, analog and digital computer model analysis of, 22:53290
cooling systems for, activation of corrosion products in, (T), 25:23276
cooling systems for, coolant loss accident effects on component supports in, 24:45847
cooling systems for, coolant loss accident effects on pipe bending in, (E), 24:45848
cooling systems for, corrosion product contamination in and removal from, 25:60068
cooling systems for, critical flow measurements for, 22:1820
cooling systems for, demineralizing water treatment in, 24:14034
cooling systems for, description of dual circuit, 24:24826(P)
cooling systems for, design and safety aspects of, 24:24701
cooling systems for, detailed failure effect analysis for, 22:37440 (HN-192)
cooling systems for, effects of corrosion in, 25:25972 (BNWL-SA-3807)
cooling systems for, experimental evaluation of decompression phenomena in simulated, 23:37579
cooling systems for, heat transfer and fluid flow in, (T), 25:23272 (WAPD-TM-1000(Vol.1))
cooling systems for, in-service inspection program for, 24:45839
cooling systems for, use of sensitized stainless steel in, (E), 25:59886 (WCAP-7735)
cooling systems of, description of method for pressure suppression for ruptured, 25:46163(P)
cooling systems of, design requirements and safety aspects of primary, 25:37012
cooling systems of, fabrication, construction, and operation of components for, 25:37012
cooling water for, economics and efficiency of anion and cation power- and bead-type resin treatments for, 23:11356
cooling water from, processing of, 25:21152
core barrel and support structure for, design parameters for stress relieved, 24:47864(P)
core barrel for, effects of pressure pulse from blowdown accident on dynamic response of, (T), 25:39277
core barrel of, effects of fluid flow on vibrations in, 24:20943
core components of, analysis of vibration characteristics for, (E/T), 24:28991
core configuration for, description of gas pressure-vacating moderator-filled fuel-free zones in, 22:48676(P)
core configuration for, design analysis for optimum, 22:30164(R) (WCAP-3703)
core cooling system for, description of pressure actuated emergency spray, 23:47226(P)
core design for, thermal and hydraulic analysis of, 25:12791
core emergency cooling for, cooldown rates and heat transfer coefficients for, 23:28503(R) (BMI-1861)
core for large, mechanical design of, 23:28394
core for, design for maritime use of burnable-poison, 22:3878 (TRG-Report-1500)
core for, development during July to October 1969, 24:22323 (WAPD-MRP-130)
core for, effects of coolant loss accident conditions on, (E/T), 25:57095 (WCAP-7422)
core for, methematical model for forced convection cooling of partially crumbled, 23:28503(R) (BMI-1861)
core for, reactivity coefficient, control rod worths, burnup, and power distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2), (E/T), 25:20705 (WCAP-3385-55)
core lifetime for, computer program for burnup analysis of, 22:30165(R) (WCAP-3706)
core lifetime for, effects of physics parameter uncertainties on, 22:44841 (WASH-1082)
core meltdown accidents in, methods for containment of molten mass and fission products following, (T), 25:48281 (BMI-1910)
core of, stability margin for xenon oscillations in 177 fuel assembly, (T), 25:48241 (BAW-10010(Pt.3)(Rev.1))
core performance in, effects of power distribution control on, (E/T), 24:47723
core physics for power, effects of fuel enrichment and burnable poison loadings on optimum, 25:28663
core physics for, measurement of γ-radiation for analysis of, 24:38494
core structure optimization for recycle plutonium costs, 21:7948
core support structures in, coupled structural-hydrodynamic analysis of vibrations of, 24:52878 (ANL-7685, pp 290-303)
core supports for, fabrication of stainless steel, 22:39797
core supports in, analysis of stress testing of stainless steel, 22:30164(R) (WCAP-3703)
cores for, computer monitoring of instrumentation for, 24:7087
cores for, design and performance parameters of, 25:41394
cores for, improvements in thermal performance of, 22:12053
cores for, model for plutonium buildup in, 24:33275
cores of, performance of dysprosium oxide (Dy_2O_3) burnable poison in uranium oxide (UO_2) fueled, 24:29020
corrosion product activation in, 21:12189
corrosion product mass transfer equations for, 21:12189

corrosion products build-up and behavior in core of, 21:25677
corrosion products build-up and behavior in out-of-core parts of, 21:25677
cost analysis for medium power, 25:28638
cost analysis for small and medium power, 25:28720
cost analysis for small and medium power, 25:28717
cost estimates for single unit power, computer program for calculation of conceptual, 25:57063 (ORNL-TM-3276)
cost trends for dual-purpose power, net unit, 23:13418 (TID-24767)
costs for 1000 MW(e), analysis of 1970 to 2020 capital, 25:37030 (ORNL-TM-3243)
costs of U.S., trends for future, 24:28898
critical heat flux in boiling, method and apparatus for increasing, 21:23675(P)
critical heat flux in, model analysis of closely spaced lattice, (E), 23:26041 (WAPD-TM-466)
criticality equations for, analysis of, 22:30166(R) (WCAP-3707)
decontamination following coolant accident, 21:43429
decontamination of equipment and surfaces of, 25:53989 (A/CONF.49/P-799)
description of dual- and single-purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of German light and heavy-water, 22:53339
description of integral pressurizer-supported fuel elements, 22:25048(P)
description of marine compact closed-loop, 23:11323(P)
description of multi-element fueled and multi-channel cooled, operating at 2800 to 3200 lb/in.^{2}, 22:14228(P)
description of multi-region fast-breeder supercritical, 22:20884(P)
description with thermal barrier for maintaining overpressure in coolant system, 22:6051(P)
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and development of NERO, 21:14042(R) (EUR-3125.e)
design and economics of, 21:23689(P)
design and performance in dual-purpose plants, 21:14059
design and technological evaluation of 1.5 MW(e), detailed state-of-the-art, 23:43085 (ORNL-TM-2604)
design basis accidents in, containment conditions for, 22:30121(R) (BMI-X-10229)
design characteristics of, 22:3836 (NP-16983)
design characteristics of power, effects of plutonium recycle on, 24:33316
design data for low-powered terrestrial, 22:7814(R) (ORNL-4178)
design evaluation of metallic uranium-fueled, for process heat or power, 22:27630 (ORNL-TM-2203)
design evaluation of power, enclosed in a prestressed concrete pressure vessel, 23:28468
design features of large, improvements in, 24:24700
design for marine use, 21:46933(P)
design improvements in power, review of, 22:46945
design of 1500 kW(e) portable, 21:35644(R) (ORNL-4136)
design of direct-cycle fast water-cooled supercritical, 21:23680(P)
design of medium power, modification of high output components for conceptual, 25:28639
design of NEREUS, 21:44913 (RCN-76)
design of portable, 21:35614(P)
design of supercritical steam and pressure, operated by valves in supply and moderator tubes, 21:27777(P)
design of swimming-pool research, with dual coolant circuits, 21:10212(P)
design of U. S., standards on safety criteria for, 25:25951
design of uranium-seed, thorium blanket, coupled-core, 21:25680(P)
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, for dual-purpose desalting plants, 21:10199 (ORNL-TM-1564)
design of, for marine applications, 21:15750
design of, safety standards for, 24:33380
design of, safety standards for, 24:33381
design of, use of presently existent physics measurements for future, 21:27750
design parameters for 500, 750, and 1000 MWe, 22:44841 (WASH-1082)
design parameters for 80 to 300 MW(e) heavy water cooled and water cooled, analysis of optimum economic, 23:37405
design parameters for 800 MWe, 23:28394
design parameters for 87 to 150 MW(e) heavy water moderated Vulcain type, analysis of optimum economic, 23:37410
design parameters for Bulgarian, analysis of optimum economic and safety, 22:32767(T) (JPRS-45161)
design parameters for conceptual metal fueled power, analysis of optimum economic, 24:31124(R) (ORNL-4538)
design parameters for container ship, description of, 23:11321
design parameters for dual-purpose, 23:13418 (TID-24767)
design parameters for large power, development of technology for, 25:18116
design parameters for typical water and heavy water 300 MW(e), 23:26022
design parameters in U.S.S.R. for 12 MW(t), 24:16076(T) (LIB/Trans-192)
design parameters of dual purpose, for industrial electricity and steam production, 24:4114
design parameters of integrated 275 MW(t), 25:28641
design parameters of power, 24:45894
design parameters of small and medium power, 25:28717
design parameters of, analysis of optimum economic, 24:2003
design parameters of, review of, 24:13528
design parameters of, review of, 24:18609
design study for earthquake-resistant, 23:2055 (KE-68-4)
design with hexagonal fuel elements and Y-shaped control elements, 21:42786(P)
design with pressure vessel containing core, heat exchanger, and primary coolant, 21:44898(P)
design with thermal shield which acts as boiler for water treatment, 21:19429(P)
design with water shield surrounding pressure vessel, 21:19447(P)
development and economics of, in U. S, 21:19408
development during December 1960 to May 1961, description of, 22:30164(R) (WCAP-3703)
development during December 1961 to February 1962, description of, 22:30167(R) (WCAP-3708)
development during June to August 1961, description of, 22:30165(R) (WCAP-3706)
development during March to June 1962, description of, 22:30168(R) (WCAP-3710)
development during September to November 1961, description of, 22:30166(R) (WCAP-3707)
development in Canada of 0.5 to 30 MW(e), economics for predicted 1976 to 1980, 23:37411
development in Germany of power, review of, 25:53957 (A/CONF.49/P-806)
development in U. S. of power, review of, 24:38402 (CONF-700317, Paper 15)
development in U. S., status and prospects for, 25:39206 (A/CONF.49/P-34)
development in U.K. of maritime, economics for container ship, 23:15703
development in U.S. and Germany, status of, 25:36984
development in U.S.S.R. of power, review of, 24:4003
development of closed cycle, physics calculations and measurements for, 24:38445(R) (NP-18270)
development of closed cycle, physics calculations and measurements for, 24:38444(R) (NP-18269)
development of closed cycle, physics calculations and measurements for, 24:38438(R) (NP-18263)
development of closed cycle, physics calculations and measurements for, 24:38442(R) (NP-18267)
development of closed cycle, physics calculations and measurements for, 24:38437(R) (NP-18262)
development of closed cycle, physics calculations and measurements for, 24:38440(R) (NP-18265)
development of closed cycle, physics calculations and measurements for, 24:38443(R) (NP-18268)
development of closed cycle, physics calculations and measurements for, 24:38436(R) (NP-18261)
development of closed cycle, physics calculations and measurements for, 24:38439(R) (NP-18264)
development of dual purpose, 21:25709 (ORNL-TM-1618(Pt.2))
development of dual-purpose power—desalination, 21:46936
development of economic marine, 21:42791
development of marine, for container ships, 24:36076
development of maritime, in U.K, 24:7263
development of power, review of, 22:18493
development of power, review of, 22:24985
development of power, review of, 23:15565
development of power, review of problems in, 24:52855
development of power, technical and economic aspects of, 22:18500
development of power, trends in, 25:23237
development of uranium metal fueled, for desalination plants, 23:28593(R) (ORNL-4409)
development of, economics and technical aspects of, 21:7987
development of, progress review of safety projects for, 23:26059
development of, review, 21:15684
development of, status and trends in, 24:24699
development program for large closed-cycle power, summary of reports on, 23:13419 (WCAP-3269-75)
development program in U.S.S.R. for power, review of, 23:17172
diffusion equations for, use of cyclic Chebychev polynomials to solve space-time, 23:40427 (CONF-690401-, pp 55-75)
dynamic behavior of self-pressurized, analytical model for, 25:1956 (MRR-60)
dynamic characteristics of, effects of power demand and control system variations on, (T), 25:18119
dynamic response of, mathematical model for calculating control rod effects on, 23:40429 (CONF-690401-, pp 102-15)
dynamics equations for, comparison of space-time synthesis calculations with exact two-group two-dimensional transient solutions for, 22:32830
dynamics of, 25:51050
dynamics of self pressurized, analog computer simulation for, (T), 24:52859
dynamics of, analysis of experimental model and analog computer simulation for, (E/T), 23:43207
dynamics of, computer program analysis of axial, 25:31541 (EUR-4497)
economic analysis of, tabulated, 22:3839 (NP-16986)
economic aspects in Argentina, 22:3840 (NP-16988)
economic aspects of, for power generation for production of aluminum and aluminum oxides, 23:48381
economic comparison of power, with conventional power plants, 22:30185
economic studies for Norwegian 500-MW, 22:16356 (KR-116)
economics and performance of large, 21:15699
economics in U.S.S.R. of, 25:10099
economics of, 21:46899
economics of, 21:46897
economics of dual purpose, for industrial power and steam production, 24:4115
economics of dual purpose, in central heating stations, 25:57135
economics of dual-purpose desalination, 21:40632
economics of dual-purpose power and desalination, 23:49624
economics of dual-purpose power-desalination, 22:50786
economics of dual-purpose power-desalination, parameter selection method for analysis of optimum thermal, (T), 23:4399
economics of further European development, 21:34121
economics of Great Britain and United States, comparison of, 22:14223
economics of heavy water cooled CANDU-type, 25:54124 (A/CONF.49/P-151)
economics of power production from, 22:18479
economics of power, comparison with other common reactor types of, 25:20749
economics of ship propulsion using, 21:19446 (NUS-278-A)
economics of thermal power, neutron data requirements for analysis of, (T), 23:6004
economics of, effects of fuel cycle on optimum, 23:28496
economics optimization in design of, 22:14195
effluents from, environmental aspects of radioactive and thermal, 24:45928 (CONF-700810-51)
electric power systems for, description of emergency and operational, 21:40642
electricity production from, comparison with other reactor types of, 24:16090
emergency cooling system for, description of B and W, 22:32862
emergency cooling system for, description of valve-controlled pressurizer and integral heat exchanger, 23:2048(P)
emergency core cooling system for power, effects of partial core blockage on performance of, (E), 24:47881(R) (IN-1320)
emergency core cooling system for, analysis of core thermodynamics and heat transfer for bench type bottom flooding, (E), 25:1897 (IN-1390)
emergency core cooling system for, computer for simulation of, 25:10238(R) (BMI-1890)
emergency core cooling system for, effects of fuel cladding deformation and swelling on performance of, (E), 24:36038 (CONF-700608-11)
emergency core cooling system for, effects of fuel element failures on heat transfer performance of, 24:33378
emergency core cooling system for, effects of fuel element failures on performance of, 24:33376
emergency core cooling system for, effects of fuel rod deformation on heat transfer performance of, (E), 24:38570 (CONF-700608-10)
emergency core cooling system for, effects of fuel element failures on heat transfer performance of, 24:33377
emergency core cooling system for, FLECHT simulated coolant loss accident testing of, (E), 24:29036 (IN-1386)
emergency core cooling system for, performance during coolant loss accidents conditions of FLECHT, (E), 25:46273 (WCAP-7665)
emergency core cooling system for, performance of bottom flooding, (E), 24:50156 (WCAP-7435)
emergency core cooling system for, use of lost primary coolant in, 25:10231(P)
emergency core cooling system of, effects of 75 to 100 percent flow blockage on performance of bottom flooding, (E), 25:6042
emergency core cooling system of, effects of flow rates on performance of bottom flooding, (E), 25:6043
emergency core cooling system of, performance requirements of bottom flooding, 25:6041
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer code for, 24:16211(R) (BMI-1877)
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer programs for analysis of, 24:7141(R) (BMI-1871)
emergency core cooling system performance during coolant loss accidents, thermal hydraulic computer codes for analysis of, 23:45095(R) (BMI-1867)
emergency core cooling system performance in, effects of fuel element swelling on, (T), 24:29034(R) (BMI-1881)
Emergency Core Cooling Systems for, design parameters and analyses for, 23:4274 (ORNL-NSIC-24)
emergency core cooling systems for, effects of blowdown on pressure profiles in, 24:22427(R) (IDO-17303)
emergency core cooling systems for, effects of clad swelling on performance of, (T), 25:41441
emergency core cooling systems for, effects of partial flow blockage in small rod bundles on performance of, (E), 25:41465
emergency core cooling systems for, effects of variable flooding rates on effectiveness of, (E), 24:43772 (WCAP-5352)
emergency core cooling systems for, heat transfer capabilities of bottom flooding, (E), 25:10229 (WCAP-7544)
emergency spray cooling system for, effectiveness of coolant-loss accident, (E/T), 23:2049
engineered safeguards equipment for, effects of post accident containment environments on performance of, (E), 25:57097 (WCAP-7744)
engineered safeguards for, detailed failure effect analysis for, 22:37440 (HN-192)
excursions in, measurement and analysis of effects of cold-startup and hot-standby conditions short-period, 22:48648(R) (IDO-17271)
fabrication in Japan of, problems associated with, 22:42280
fission product deposition and transport in, 21:38438(R) (BMI-1810)
frequency response of, linear one-dimensional model analysis for, (T), 25:28665
fuel assemblies for, analysis of forced convection burnout and hydrodynamic instability in, (E/T), 23:9155 (EUR-4070)

fuel assemblies for, computer analysis for optimum burnup in, 22:30168(R) (WCAP-3710)
fuel assemblies for, coolant mixing between subchannels in, (E/T), 25:57031 (WCAP-7755)
fuel assemblies for, design of clustered fuel-burnable poison pin-type, 21:44897(P)
fuel assemblies for, design of plutonium recycle, 25:54104 (WCAP-4167-1, pp 4.1-35)
fuel assemblies of integral, description of support grids for, 23:2000(P)
fuel assemblies of, critical heat flux for bundle type, (E/T), 24:24809 (BAW-10000)
fuel burnup in, one-group diffusion calculations of, 21:15712
fuel cladding rupture in, detection and location methods for, 23:17194 (CEA-R-3654)
fuel cycle analysis and costs for crossed-progeny systems, 21:21670
fuel cycle costs for 880 MW(e), effects of plutonium price on, 22:53344
fuel cycle costs for plutonium recycle in, 21:30107 (BNWL-SA-776)
fuel cycle costs for, estimation of, 24:272 (ORNL-4422, pp 306-11)
fuel cycle economics for, 21:35605
fuel cycle economics in Argentina, methods of calculation of, 22:3931 (NP-16987)
fuel cycle economics in, evaluation of basic, 22:14230 (NUS-265-A)
fuel cycle economics of, 21:30110 (CNEA-183)
fuel cycle for power, analysis of optimum economic, 24:7140
fuel cycle for single-purpose desalination uranium oxide (UO_2) fueled, analysis of optimum economic, 23:13557 (ORNL-TM-2046)
fuel cycle for, analysis of economics of thorium, 22:32908
fuel cycle for, development of plutonium, 25:10222
fuel cycle for, economics of re-use, 22:42162(R) (BNWL-254)
fuel cycle for, effect of uranium-236 and neptunium-237 on value of feed uranium in, 22:37446 (MIT-2073-6(Vol.1))
fuel cycle for, effect of uranium-236 and neptunium-237 on value of feed uranium in, 22:37447 (MIT-2073-6(Vol.2))
fuel cycle for, effects of neptunium-237 and uranium-236 on, 22:32907
fuel cycle management for, analysis of optimum, (T), 23:45084
fuel cycle performance for heavy water-moderated, analysis of optimum, 22:30260
fuel cycles economics for, effects of burnup on, 23:28384
fuel cycles for power, economics of thorium—uranium, 24:11122
fuel cycles for power, effect of neptunium-237 and uranium-236 on value of feed uranium in, (T), 22:46903 (MIT-2073-7)
fuel cycles for, use of thoria—urania, 21:2835
fuel development for, analysis of plutonium, 21:19347 (BNWL-SA-926)
fuel element assemblies for, braze alloy testing for Zircaloy, 23:35990 (IITRI-578-P-29-37)
fuel element assemblies for, uses of Monte Carlo programs for evaluating neutronics characteristics of, 23:15732 (ANS-RPD-1, Paper 4A)
fuel element assemblies of, effects of configuration on coolant crossflow mixing in 19 rod bundle, (E/T), 23:31168 (RT/ING-(69)2)
fuel element cladding failure in, effects of oxygen dissolution on Zircaloy, (E/T), 23:45095(R) (BMI-1867)
fuel element cladding for advanced, testing Zircaloy-2 and -4, 23:22460 (BAW-3765-7)
fuel element cladding for, design criteria for fission product retention by, 22:27492
fuel element cladding for, development of zirconium alloy, 21:1917 (BNWL-SA-672)
fuel element cladding for, effects of coolant loss on swelling of, 24:7141(R) (BMI-1871)
fuel element cladding for, effects of coolant loss on swelling of, 24:16211(R) (BMI-1877)
fuel element cladding for, effects of coolant loss on swelling of, (T), 24:29034(R) (BMI-1881)
fuel element cladding swelling during coolant loss accidents, heat transfer and metal creep model for, 23:45095(R) (BMI-1867)
fuel element cycle management for 1100 MW(e), optimization of reloading patterns for, (T), 25:23299
fuel element cycle management for, algorithm for optimum, 24:33353
fuel element cycle management for, calculations of optimum mixed oxide, 24:33317
fuel element fabrication for, facilities in Japan for, 24:31071
fuel element failure in U. S. power, performance of detection system for, 24:4019
fuel element failure in, effects of coolant flow blockage on propagation of, (T), 23:45095(R) (BMI-1867)
fuel element failures in, system for monitoring of, 25:28703
fuel element for, description of Vapotron-type, 22:6190(P)
fuel element fouling by magnetite deposition, effects of ferrous hydroxide transformation into magnetite on, 22:619 (EURAEC-1896)
fuel element in, analysis of burnup of Zircaloy-clad uranium oxide (UO_2), 22:32894
fuel element management in, development of simulator and computer codes for, 25:53892 (A/CONF.49/P-278)
fuel element management in, minimization of hot channel factors by, (T), 25:41452
fuel element performance in, tabular summary of, 22:44841 (WASH-1082)
fuel elements for Canadian, performance of zirconium-clad uranium oxide (UO_2), 22:42155 (AECL-3068)
fuel elements for Canadian, use of uranium oxides (UO_2) in, 22:3808 (AECL-2928)
fuel elements for power, development of prototype Zircaloy-4 clad uranium oxide (UO_2) pellet, 24:50121 (EUR-4406)
fuel elements for pressure-tube-type, description of diaphragm-connected multiple longitudinal, 23:15631(P)
fuel elements for WWER-type, calculation of heat transfer, power, dimensional variations, and fission product pressure in, 25:12798 (IAE-1942)
fuel elements for, analysis of mechanical and physical properties of, 22:35461 (GEMP-482)
fuel elements for, analysis of thermal fields in, 21:42839
fuel elements for, calculations of stresses on claddings of, 22:1753(R) (BMI-1815)
fuel elements for, critical heat flux and pressure drop with parallel upflow in bundles of, (E), 25:12787
fuel elements for, design criteria for optimum economic power density in, 23:28491
fuel elements for, design of, 21:19435(P)
fuel elements for, design of tubular, 21:44906(P)
fuel elements for, effects of blowdown conditions on temperature response of Zircaloy 4-clad uranium oxide (UO_2) pin-type, 23:19581 (IDO-17295)
fuel elements for, effects of control rods on power densities of, 23:37610(R) (BAW-3647-11)
fuel elements for, effects of coolant loss accident conditions on, 25:28737 (IN-1445)
fuel elements for, effects of coolant loss accidents on Zircaloy cladding of, 25:10244(R) (ORNL-TM-3212)
fuel elements for, effects of coolant loss accidents on Zircaloy cladding of, (E), 24:52951 (ORNL-TM-3122)
fuel elements for, effects of coolant loss accidents on Zircaloy clad, (E), 25:23313(R) (ORNL-TM-3263)
fuel elements for, effects of coolant loss conditions on failure modes of Zircaloy 2 clad rod, 23:26048 (ORNL-TM-2548)
fuel elements for, effects of coolant loss conditions on failure characteristics of Zircaloy clad uranium oxide (UO_2) rod type, (E), 25:41509
fuel elements for, effects of internal helium pressurization in performance of Zircaloy clad uranium oxide (UO_2), 24:43768
fuel elements for, evaluation of purchase options and warranties for supply of, 23:28384
fuel elements for, fabrication methods for, 22:12486
fuel elements for, fabrication of type 304 stainless steel-clad enriched uranium oxide (UO_2) pellet-type, 22:30164(R) (WCAP-3703)
fuel elements for, parametric studies of temperature response during blowdown core cooling and initial heatup of, 23:11256(R) (IDO-17265)
fuel elements for, performance data for, 22:46938
fuel elements for, performance of internal pressure Zircaloy clad, 24:7119
fuel elements for, performance of Zircaloy clad mixed oxide, (E/T), 25:25987(R) (WCAP-3385-26)
fuel elements for, performance of Zircaloy clad mixed oxide, (E/T), 25:48264(R) (WCAP-3385-27)
fuel elements for, performance of Zircaloy clad mixed oxide, (E), 25:54101(R) (WCAP-3385-28)
fuel elements for, performance of Zircaloy-4 clad plutonium oxide (PuO_2)—uranium oxide (UO_2), (E/T), 24:26777(R) (WCAP-3385-22)
fuel elements for, performance of Zircaloy-4 clad mixed oxide, (E/T), 24:36033(R) (WCAP-3385-23)
fuel elements for, quality control in fabrication of stainless steel-clad uranium oxide-containing, 23:41714
fuel elements for, reference design parameters for, 22:44841 (WASH-1082)
fuel elements for, standards for Zircaloy clad uranium oxide (UO_2), 25:57049 (RDT-E-13-15-T)
fuel elements for, thermal and hydraulic behavior during sustained departure from nucleate boiling operation of, (T), 24:11187 (BAW-10014)
fuel elements for, thermal and hydraulic effects of crud deposits on, (E), 25:8070 (WAPD-TM-918)
fuel elements for, use of plutonium in, 22:6022
fuel elements in, neutron radiation effects on niobium—zirconium clad uranium oxide (UO_2) rods, 22:22830
fuel elements of manganese oxalate—uranium oxide (UO_2), description of sealed gas-forming pellets for, 23:17192(P)
fuel elements of, analysis of temperature effects on power density in type 304 stainless steel-clad uranium oxide (UO_2) pellet-type, 22:30167(R) (WCAP-3708)
fuel elements of, criticality studies of shipping containers for irradiated, 24:7132
fuel elements of, description of core arrangement for optimum cooling and power density in, 24:24846(P)
fuel elements of, description of monatomic gas adsorption chambers of activated charcoal for cylinder shaped, 24:16201(P)
fuel for advanced converter, analysis of predicted performance of uranium metal, 23:37533
fuel management for, schemes for optimization of in-core, 24:18527
fuel management in, economic and planning factors affecting in-core, 24:18528
fuel management in, operating flexibility from in-core, (T), 24:16206
fuel management, economics of direct replacement and shuffling, (T), 24:18679
fuel materials for, summary of properties and performance of, 23:11174
fuel pins for, effects of coolant loss accident conditions on heat transfer characteristics of Zircaloy clad bundles of, (E), 25:60114 (CONF-711103-1)
fuel recycle for power, effects of uranium-236 content of economics of, 23:37420
fuel replacement in, optimum economics of, 23:28496
fuel reprocessing for, fission product production in, 24:16818 (ORNL-4473)
fuel requirements for, in Japan, 1975 to 1990, 21:21668
fuel rod fabrication costs for, RODCOST computer program for uranium oxide (UO_2) and plutonium oxide (PuO_2)—uranium oxide (UO_2), 22:44809 (BNWL-789)
fuel rods for conceptual 1000 MWe, determination of cladding hot spot temperature transients for, 22:42160(R) (BMI-1844)
fuels for desalination, evaluation of metallic uranium as, 24:11288 (ORNL-TM-2451)
fuels for power, economics of plutonium, 24:11141
fuels for, anticipated demand for, 21:8126 (ORNL-P-2535)
fuels for, calculations for use of plutonia—urania, 21:40541(R) (BNWL-492)
fuels for, development of enriched uranium oxide (UO_2) ceramic, 22:14147(R) (WAPD-MRP-122)
fuels for, drop testing of containers for shipping, 25:48862 (CONF-710801-(Vol.2), pp 861-72)
fuels for, economic and technical aspects of plutonium, 21:7945
fuels for, effects of pressure on radioinduced creep in, 25:22208
fuels for, fabrication and performance of uranium dioxide as, 23:10270 (ORNL-TM-2357)
fuels for, power distribution and depletion calculations for plutonium recycle, 25:54103 (WCAP-4167-1, pp 3.1-30)
fuels for, proposed performance test code for, 22:28885
fuels for, use of plutonium in, (E/T), 24:52916(R) (WCAP-3385-24)
fuels for, utilization of plutonium in, (E/T), 24:26777(R) (WCAP-3385-22)
fuels for, utilization of plutonium in, (E/T), 24:36033(R) (WCAP-3385-23)
fuels for, utilization of plutonium in, (E/T), 25:10213(R) (WCAP-3385-25)
fuels for, utilization of plutonium in, (E/T), 25:25987(R) (WCAP-3385-26)
fuels for, utilization of plutonium in, (E/T), 25:48264(R) (WCAP-3385-27)
fuels for, utilization of plutonium in, (E/T), 25:54101(R) (WCAP-3385-28)
fuels of, demonstration program for recycle of plutonium from, 24:18664
fuels of, performance of plutonium oxide (PuO_2)—uranium oxide (UO_2) particle type, 25:48235(R) (BNWL-1522-2)
hazards analysis for plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled, 25:48235(R) (BNWL-1522-2)
hazards analysis of, 21:30178 (WCAP-3269-60)
hazards to population from nuclear weapons targeted, civil defense implications of, 25:13184
heat exchanger tubing for, corrosion by water at 316°C, 22:49683 (CONF-671007-4)
heat exchangers for, design of, 21:46976(P)
heat transfer and fluid flow in, (E/T), 21:1158(R) (EURAEC-1683)
heat transfer and fluid flow studies of, 21:1506(R) (EURAEC-1514)
heat transfer characteristics in, 21:17440(R) (EURAEC-1324)
heat transfer characteristics of heavy water cooled CANDU type, (E/T), 25:1865 (AECL-3691)
heat transfer parameters for, HECTIC-2 computer program for calculation of, 25:23256 (KFKI-70-33-RPT)
heat transfer system for, design of, 21:5662(P)
heaters for, description of star-connected three-phase transformer straight metal-sheathed wire immersion, 22:50774(P)
hydraulic measurements in models of, 21:23662
hydraulics of, REPP computer program for thermal, 23:26027 (BNWL-1013)
hydrodynamics of heat exchanger secondary side for, non-linear digital computer program for transient, 23:23877
instrumentation for large, design of, 21:7901(R) (WCAP-3269-17)
instrumentation for, description of nuclear, 22:42480
instrumentation for, development of neutron, γ-radiation, and temperature sensors, 24:38505
instrumentation for, response of startup, 21:30099(R) (BAW-3647-4)
instrumentation systems for power, design comparisons of protection, 24:22374
isotope production in, calculation of optimum economic plutonium-238, 23:37532
kinetic behavior of uranium dioxide fueled, use of SPERT 3 core for evaluation of, 23:28445
kinetics calculations for, comparison of point and spatial, 24:29034(R) (BMI-1881)
kinetics calculations for, computer program for, 21:7972
kinetics equations for large, use of modal expansion technique for obtaining exact solutions to space-time dependent, 22:30163 (WCAP-3680-20)
kinetics equations for, finite difference method for solution of multigroup space-time, 23:45095(R) (BMI-1867)
kinetics equations for, modifications in ADEP code for spatial, 24:16211(R) (BMI-1877)
kinetics equations for, modifications in ADEP-1 and ADEP-2 computer programs for one and two dimensional, 24:7141(R) (BMI-1871)
kinetics of uranium oxide (UO_2) fueled, use of computer programs and SPERT 3 and SPERT 4 facilities for, (E/T), 24:16160 (BNL-50117, pp 275-305)
kinetics of uranium oxide (UO_2)-fueled, Spert transient testing for analysis of, 23:7400(R) (IDO-17279)
kinetics of, calculation of transient behavior, 23:40331 (BMwF-FBK-69-14)
kinetics of, calculations for feedback in multigroup, (T), 25:5956
legal aspects in Argentina, 22:3840 (NP-16988)
license applications for power, review of USAEC required supplementary information during, 23:26009
licensing of, analysis of types of supplementary material to preliminary safety analysis report required for, 23:4154

loading machine for heavy water-cooled, description of valve sealed overhead flexible grab, 23:23922(P)
loading scheme for power, calculation of optimum, (T), 25:10184
loss-of-coolant accidents in, research progress on, 23:13824(R) (IN-1201)
materials design criteria for, 21:38520
materials for, effects of concentrated coolant additives on corrosion of crevices in, 24:961
materials for, properties of, 24:7375
moderator and reflector materials for, summary of properties and performance of, 23:11174
moderator efficiency of, effects of boron concentration, water density, and temperature on, 22:30165(R) (WCAP-3706)
moderator efficiency of, effects of boron concentration, water density, and temperature on, 22:30164(R) (WCAP-3703)
moderator reactivity coefficients for, effects of localized boiling void on calculation of, 21:38499
moderator tank for pressure tube type, description of, 22:25192(P)
neutron diffusion in lattice cell of, synthetic kernel transport approximation for fast, 24:22483
neutron flux boundary condition matrices in, QUAVER computer program for calculating, 21:35544 (AEEW-R-515)
neutron flux distribution in large, two-group neutron diffusion equations for describing, 22:30163 (WCAP-3680-20)
neutron flux distribution in, analog signal processor and display system for, 24:40936
neutron flux in large, effects of stability characteristics on thermal, 22:30163 (WCAP-3680-20)
neutron flux monitor for, activation measurements for incore all-solid self-powered rhodium wire, 23:21499(R) (BAW-3647-10)
neutron flux monitor for, response of all-solid self-powered in-core, (E), 23:52329 (BAW-3647-13)
neutron flux monitoring in, testing of solid self-powered detectors for, 24:11154 (BAW-10001)
neutron flux monitoring in, two-range system for, 24:40941
neutron flux profile analysis in, BOLERA code for, 22:18588 (RT/FI-(67)28)
neutron flux scanning in, aeroball system for, 25:39241 (IAEA-119, 4p.)
neutron spectra and reaction rates in, theoretical model for determining effects of resonance scattering on thermal, 24:7084
noise analysis of, use of analog analyzers for, 21:27705
noise measurements in, dynamic reactor analyses using, 21:38524
noise measurements in, frequency-domain analysis of, 21:30126 (CONF-660206, pp 487-501)
nuclear materials management procedures for heavy water cooled and moderated, 25:23199 (IAEA-R-711-F)
operation before refueling of, economic aspects of low power, 25:60098
operation economics and efficiency, 21:44884
operation efficiency of marine, with saturated-steam, 21:42792
operation of 140, 500, and 1000 MW(e), analysis of economic optimum, (T), 23:2051
operation of first German nuclear ship, 24:4402
operation of power, physics measurements for optimum, 24:18676 (NP-18157)
operation of power, refueling and maintenance schedules for optimum economic, 25:5909
operation of, description of computer programs for monitoring optimum, 22:53318
operation of, economics for, 24:49997
operation of, parameter analysis for optimum, 23:6013
operation of, procedures for startup and long-term, 24:45894
operation of, stability of nuclear and conventional plant systems in, 25:60105
operator training for, use of analog simulator and steam turbine for, 25:39168
operator training program for, detailed curriculum and schedule for, 22:37450 (WCAP-7170)
operators for, description of Babcock and Wilcox reactor simulator and programs for training, 24:18525
operators for, description of Westinghouse reactor simulator and programs for training, 24:18524
oscillations in, control procedures for xenon induced spatial, 23:43097 (WCAP-3680-21)
oxygen control in coolant of low-temperature, using ammonia, 21:2893 (HW-83439)
performance of heavy water cooled and light water cooled, with natural uranium and thorium fuel cycles, 24:24856
performance of power, economic advances in, 22:27443
performance of power, review of improvements in, 22:46942
performance of, analysis of optimum economic and technical, 22:42282
performance of, physics and dynamics calculation methods for, 24:40906 (AEEW-R-691)
performance parameters for dual-purpose, effects of brine heater leakage on, 22:32955
personnel for power, use of simulator for training operator, 24:50135
personnel for, use of simulator for training of operation, 24:24722
physics characteristics of operating, description of methods for determining, 24:7025
physics characteristics of plutonium-containing cores in, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
physics measurements for uniform and non-uniform plutonium fueled lattices of, comparisons of, 22:22769
physics measurements in uranium metal-fueled desalination 4300 MW(t), description of, 22:32954
physics measurements in, evaluation of, 21:27758
physics of, effects of Zircaloy clad fuel, burnable poisons, and part length control rods on, (E/T), 24:47723
physics parameters for, 23:19466
physics parameters for, effects of use of plutonium fuel on, 22:22658 (BNWL-475)
plutonium introduction into, effects of, 21:30107 (BNWL-SA-776)
poisoning oscillations control in large, modal analysis of xenon, 21:40583(R) (WCAP-3680-4)
power conversion system of power, flow diagram for, 23:9191(P)
power conversion systems for, compressor and heat exchanger arrangement for reserve, 25:54169 (A/CONF.49/P-582)
power defect in large, effects of non-linear feedback on, 22:30163 (WCAP-3680-20)
power density in large, effects of stability characteristics on, 22:30163 (WCAP-3680-20)
power density profiles in, correlation of neutron flux detector response to, (E), 25:57017(R) (BAW-3647-22)
power density profiles of mockup plutonium recycle lattices for, correlation of in-core neutron flux detector response to, (E/T), 25:51040(R) (BAW-3647-21)
power distribution in large, effects of transients in spatial distribution of xenon on, (T), 23:28443
power distribution in, critical assembly mockup for measurement of steady state, (E), 24:18614(R) (BAW-3647-15)
power distribution in, description of part length control rods for, 22:22867 (WCAP-7072)
power distribution in, effects of refueling with recycled plutonium on, 21:7949
power distribution in, ex-core detector control of, 25:51055
power distribution of, analysis of external detector measurements of, (T), 22:27478 (BNL-12390)
power distributions in, calculation method for transient axial, (T), 25:41402
power distributions in, determination of steady-state radial, (E/T), 24:33254
power excursion and blowdown analysis for, RELAP2 computer program for, 22:39773 (IDO-17263)
power from, production of commercial, 22:12038
power generation rates in, external detection of local, 23:43189 (BNL-50149, pp 1-14)
power monitoring of, performance of activation detectors for in-core, 21:6253
power output of, analysis of optimum reactor response for varying, 22:35536
power peaking factors for, tabular summary of, 22:44841 (WASH-1082)
power plant parameters of, trends of, 21:27704
power production and desalination using, economics of, 22:48661
power production efficiency of, economic comparison with BWR and coal-fired plants, 21:13980 (NP-16276)
power spectral analysis in, use of analog analyzers for, 21:27705
power supply system for, design for emergency, 22:18484
power transients in, effects of step-reactivity insertions on, 22:48648(R) (IDO-17271)
pressure blowdown in, model of tube rupture-induced, 21:21638 (IITRI-578-P-21-26)
pressure control in, with feed and bleed system, 21:15671
pressure equalizing system for closed-loop power, description of dual-pressure heated, 23:15646(P)
pressure suppression pools for, efficiency of, 22:46912 (ORNL-NSIC-25)
pressure tubes for, development of materials for, 25:45060
pressure tubes for, fabrication and testing of niobium—zirconium alloy, 21:34074 (AECL-2890)
pressure vessel configuration for, description of vertical cylindrical sleeve separator for submerged core and surrounding boiler in, 22:37476(P)
pressure vessel for simulated, pressure transient for coolant loss accident at 600°F and 2500 psi in, 23:9182(R) (BNWL-754)
pressure vessel for, description of over-and-under dual-sectioned plate-separated, 23:9124(P)
pressure vessels for 500 MWe, 800 MWe, and 1100 MWe, design parameters for, 23:28394
pressure vessels for power, techniques for site assembly of steel, 23:15627
pressure vessels for, automated ultrasonic method for on-site inspection of, 24:38527
pressure vessels for, description of multiple with paired rows of pressure tubes in, 22:16242(P)
pressure vessels for, description of prestressed concrete and steel laminated, 25:1882(P)
pressure vessels for, description with two-region thermal barrier-separated and upper surge tank, 22:22887(P)
pressure vessels for, design of, 21:35637(P)
pressure vessels for, effects of thickness on fracture characteristics of steel, 25:60075
pressure vessels for, elastic and plastic methods of crack analysis for, 22:39892 (AD-663882)
pressure vessels for, evaluation of safety of, 22:30195
pressure vessels for, fabrication of stainless steel, 22:39797
pressure vessels for, materials properties and design requirements for steel, 25:10197
pressure vessels for, probability of failures of, 24:52890
pressure vessels for, radiation damage effects on design of, 21:46969
pressure vessels for, steady-state thermal stress analysis of, 23:26421
pressure-vessel rupture in, analysis of fission-product iodine release from, 21:27665(R) (BMI-1797)
pressurization system design for, 21:19434(P)
pressurized compartments of, effects of cooling system leaks on pressure increase in, (T), 24:52889
pressurizer dynamics for, 22:32804
pressurizer for, dynamics of, 21:22072
pressurizer for, economic aspects of, 21:15792
pressurizers for, dimensioning criteria for, (T), 24:31062
pressurizers for, effects of bubble rise and condensate drop dynamics on performance of, (T), 24:36030
pressurizers for, effects of load transients on dynamic response of, (E/T), 24:18634 (RCN-112)
pressurizers for, equilibria models of, 22:4348
pressurizers for, standards for electric heater and connector assembly for, 25:57030 (RDT-E-5-2-T)
pressurizers for, standards for electrically heated, 25:57029 (RDT-E-5-1-T)
production of plutonium-238 in, economics and efficiency of neptunium-237 replacement rods for, 24:24720 (SNE-53)
protection system design diversity in power, 23:31185 (WCAP-7306)
protection system for, description of solid state logic, 25:39262 (WCAP-7672)
protection system for, design and operation of, 25:28697 (CENPD-11)
protection system for, design parameters of, 24:40943
protection system instrumentation for, description of standard, 25:36995 (WCAP-7669)
protection systems for, effects of systematic failure on performance of, (T), 24:46057 (BAW-10019)
pump motors for, design characteristics and requirements of vertical high speed induction, 25:34349
pumps for power, flow characteristics for, 25:57039
pumps for power, flow characteristics for, 25:57009
pumps for, design problems for primary, 25:57038
pumps for, performance characteristics of primary coolant, 25:20717(T) (JPRS-52384)
radiation monitoring system for Bulgarian, description of, 22:32767(T) (JPRS-45161)
radiation monitoring system for, description of coolant sampling for γ, 24:46026
radioactive effluents from power, 25:41361
radioactive effluents from, effects of coolant loss accidents on release of radioiodine, 25:20756 (CONF-700816-(Vol.1), pp 9-25)
radioactive effluents from, environmental radiation dose from, (T), 25:34395
radioactive effluents from, standards for maximum allowable, 24:33382
radioactive emissions from power, comparison of fossil fuel plant with, 24:20541
radioactive wastes from Japanese, disposal of, 25:54980
radioactivity from corrosion product buildup in, safety procedures for emergency operations caused by, 23:15668
reactivity accidents in oxide fueled, nuclear behavior during nondamaging, 23:21516 (IDO-17281)
reactivity calculations for, use of computer code ANDREA for, 21:21741
reactivity control in, effects of boric acid on, 21:13992 (WCAP-3269-58)
reactivity excursions in, effects of fuel element rupture on analysis of, 22:5981
reactivity measurements for, effects of plutonium oxide (PuO_2) particle size in mixed oxide fuel on, 25:48235(R) (BNWL-1522-2)
reactivity of closed-cycle power, effects of coolant pH on, 23:28442(R) (WCAP-3696-8)
reactivity of, effects of coolant pH on, 21:15664(R) (WCAP-3696-2)
reactivity variations in, effect of coolant pH on, 21:40584(R) (WCAP-3696-4)
regression analysis for U.S, 22:16169
safety analysis of Westinghouse power, reference guide for, 25:20681 (DOCKET-RESARA-1)
safety analysis of Westinghouse power, reference guide for, 25:20682 (DOCKET-RESARA-2)
safety analysis of, use of LOFT facility for, 24:46090
safety device for, design of, 21:2855(P)
safety evaluation methods for, state-of-the-art review of, 25:51139 (NP-18987)
safety of operation of desalination, analysis of leakage in brine heater, 22:30289 (ORNL-TM-2049)
safety of, summaries of reseach programs on, 25:57096 (WCAP-7722)
safety of, summary of research and development May—June 1968 on, 22:22752
safety systems for, process instrumentation for, 25:37010 (WCAP-7671)
safety systems for, reliability factors for, (T), 25:1898 (MRR-57)
shielding of power, problems of design of, 25:51062
shielding requirements for, calculations for neutron and thermal, 25:5978
shutdown instrumentation for power, analyses of testability and circuit or component failures in, 24:3992 (ORNL-NSIC-29)
simulation for, operation of personnel training, 25:6210
simulation of maritime, using analog computer, 21:13965 (EUR-3111.i)
simulation of, using analog computer and space—time core equations, 21:13966 (EUR-3112.i)
siting of 1000 MW(e), mortality risk calculations for, 24:33214 (LA-4316)
stability determinations for large, effects of finite flux convergence criteria on spatial, 22:30163 (WCAP-3680-20)
stability of large, multidimensional effects in analysis of xenon spatial, 24:7095
stability of, calculated moderator temperature effects on, 21:17472 (WCAP-2987)
stability of, errors in digital simulation of xenon oscillation effects on, 25:1872
stability of, linear one-dimensional model analysis for, (T), 25:28665
startup detectors for, radiation testing in critical assemblies of, 21:46937 (BAW-3647-5)
startup of, analysis of coolant loop, 22:30166(R) (WCAP-3707)
steam generator for, description of pressure vessel enclosed, 25:28751(P)
steam generator for, design of once-through, 21:42747
steam generators for 500 MWe, 800 MWe, and 1100 MWe, design parameters for, 23:28394

steam generators for marine, development of level regulators for, (T), 24:9157 (RT/ING-(69)4)
steam generators for, design of compact, 25:60144(P)
steam generators for, design of support system for, 24:45846
steam generators for, development and testing of once-through, 25:31532 (BAW-10027)
steam generators for, standards for, 25:44081 (RDT-E-4-1-T)
steam generators for, technical and economic comparison of, 22:42270
steam generators in heavy water moderated, core configuration and piping system for, 25:60146(P)
steam line rupture in boiling, theoretical analysis of, 21:27724
steam supply systems for, development of, 25:48296
steam systems for, design for moisture separator—reheaters for, 24:18534
stress analysis of, solid mechanics for, 23:49550 (WAPD-TM-762)
structural materials for, effects of coolant-pH on, 21:30180(R) (WCAP-3696-3)
structural materials for, summary of properties and performance of, 23:11174
superheaters for, valve for regulation of steam pressure to fossil fuel-fired, 22:53325(P)
surge reservoirs for, design of pressure generating, 21:25693(P)
systems for, detailed description of, 22:44841 (WASH-1082)
technology for Germany, development of, 23:7361(T) (AEC-tr-6957)
temperature feedback transients in, description of semi-analytic method for analyzing, 23:37475
thermal shielding for, description of cooling system for, 23:13493(P)
transfer function measurements in, dynamic reactor analyses using, 21:38524
transfer functions for large, comparison of fast and thermal, 22:30163 (WCAP-3680-20)
transients in large, use of XENOLUX code for analyzing xenon, 23:37466
transients in, analysis of loss of coolant flow, 25:51147
transients in, failure probability of protection system during anticipated operational, (T), 25:39261 (WCAP-7486)
transients in, FLASH-3 code for simulation of severe, 24:11218 (WAPD-TM-800)
tritium production and release mechanisms in, 24:33222
tritium production in, sources and levels of, 25:41472
tube bends for primary circuit of, fabrication of cast steel, 24:10026
tubes for, use of niobium—zirconium-base alloy as, 23:33983
turbines for power, description of steam, 23:9103
turbines for power, design problems for optimum saturated-steam, 23:19518
turbines for, control problems with Brown—Boveri, 23:21434
uranium requirements in Czechoslovakia from, 23:11166(T) (KFK-tr-274)
use as marine power plants, adaptation of space system for, 21:42788
use for desalination, applicability of, 22:39872
use for dual-purpose power desalination, 22:25030
use of stainless steels in Japanese power, description of, 22:32850
water technology in, 24:36207 (ORNL-4586, pp 67-86)
xenon instabilities in large, control of, 21:17474(R) (WCAP-3680-1)
xenon instabilities in large, control of, 21:27697(R) (WCAP-3680-3)
xenon instabilities in large, effects of xenon feedback error on three-dimensional diffusion theory analysis of, (T), 22:44842(R) (WCAP-3680-7)
xenon instabilities in large, two-dimensional half-core analysis of, (T), 22:44842(R) (WCAP-3680-7)
xenon instabilities in, characteristics and control of spatial, (T), 23:37484(R) (WCAP-3680-10)
xenon instabilities in, control of spatial, 24:16174(R) (WCAP-3680-9)
xenon instabilities in, transient analyses of, 22:30162(R) (WCAP-3680-6)
xenon instability control in, 21:21654(R) (WCAP-3680-2)
xenon oscillation control in description of part length control rods for, 22:22867 (WCAP-7072)
xenon oscillations in large three zone core, effects of core parameters on, (T), 24:5519 (WCAP-3680-23)
xenon oscillations in large, computer code simulation of three-dimensional control of, 24:7337
xenon oscillations in large, feedback effects on space-time dependent, 22:30163 (WCAP-3680-20)
xenon oscillations in, effects of core dimensions on, 22:30163 (WCAP-3680-20)
xenon oscillations in, effects of core parameters on, 22:1776(R) (WCAP-3680-5)
xenon oscillations in, modal analysis of stability margin for, 24:11168 (BAW-10010(Pt.1))
xenon stability analysis of, application of spatial stability criteria to, 22:32883
xenon stability characteristics of large, effects of finite time-steps on spatial, 22:5983
xenon-induced spatial oscillations in large, detailed analysis of, 22:30163 (WCAP-3680-20)
xenon-induced spatial oscillations in large, procedure for control of, (T), 23:13442(R) (WCAP-3680-8)
xenon-induced spatial oscillations in large, three-dimensional diffusion theory calculations of, 24:5518 (WCAP-3680-22)

REACTORS, PROCESS HEAT
see also BN-350 Reactor
see also BN-600 Reactor
see also Bolsa Island Power Reactor, Unit 1
see also Halden Boiling Reactor
see also Hanford Production Reactors (N)
see also Midland Power Reactor, Unit 1
see also Midland Power Reactor, Unit 2
see also Surfside Reactor
availability of desalting, method for determining, 22:35578
bibliography on desalination, 24:50205 (ORNL-NDIC-7)
bibliography on desalination, 22:53409 (ORNL-NDIC-4)
bibliography on desalination, annotated, 25:20812 (TID-25653)
bibliography on nuclear desalination, 24:5558 (ORNL-NDIC-6)
bibliography on U. S. desalination, 25:3913 (ORNL-NDIC-8)
brine heater for dual purpose desalting and power, leakage control problems in, 23:28595
conceptual design for two 3000 MW(t) dual-purpose desalination water-cooled and -moderated, description of, 22:42353
conference on, for seawater conversion, 23:7407 (CONF-680640)
configuration of dual-purpose 1500 MW(e) and 150 Mgd desalination, evaluation of Southern California optimum, 22:50769
configuration of natural convection water-cooled and -moderated self-regulating non-boiling low pressure multi-zone thermoelectric, description of, 22:39870(P)
construction of dual-purpose power and desalination, effects on economic development in southeast Spain of, 23:49618
construction of dual-purpose power-desalting, in Middle East, Senate hearings on, 22:42351
containment of desalination, use of evaporator for, 21:21751 (ORNL-TM-1586)
control of 300 MW(e) dual-purpose power-desalination, dynamic response model analysis of, (T), 22:22758
control system for boiling dual purpose power, description of single circuit, 24:26747
cooling system for chemical producing dual-purpose desalination and power, description of endothermic steam and hydrocarbon, 22:37523(P)
cooling system for gas-cooled desalination and power, description of compressor and turbine effluent brine heaters in, 22:37524(P)
cooling system of dual purpose power, analysis of optimum economic operation for brine loop in, 24:20619
cooling system of, description of high and low temperature concentric coolant channels in, 24:26850(P)
cooling systems for, design of, 22:3813(R) (AI-CE-54)
core for small liquid metal cooled, description of solid homogeneous metal hydride moderated concentric circle arranged, 23:40369(P)
cost analysis for 70 MW(t) open vessel well-type boiling, for desalination, 25:28793
cost analysis for reference 220 MW(t) organic cooled and moderated desalination, 25:54233 (A/CONF.49/P-177)
cost analysis in Pakistan for dual purpose power, for fertilizer production, 25:10293
cost breakdowns for combined U. S.-Mexico dual-purpose, detailed design, 23:13418 (TID-24767)
cost-design relations of dual-purpose desalting-power, 21:35658 (ORNL-TM-1659)
desalting system for, description of heated vertical helical channel, 23:4398(P)
description of desalination, bibliography on, 22:20902 (ORNL-NDIC-3)
description of desalting systems, 21:38650
description of dual- and single-purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of dual-purpose Bolsa Island plant, 21:38651
description of liquid-sodium-cooled fast breeder, 22:27455 (ORNL-4229, pp 188-90)
description of reflected underground, for treatment of liquid bitumens, 22:22785(P)
description of Russian BN-350, 21:19394
description of steam-producing, for water gas manufacture, 22:22792 (BNL-12319)
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
description of US, 22:24990
description of water-cooled desalination, submerged in a deep coolant-filled reservoir, 22:25072(P)
design and economics of desalination, 21:15760(R) (TID-23511)
design and performance of pressurized-water dual-purpose, 21:14059
design characteristics of dual purpose desalination and power, analysis of optimum, 25:54237 (A/CONF.49/P-484)
design characteristics of ROVI, for desalination of seawater, 23:49622
design concept for production of algae in algo-agro-industrial complex, 25:54239 (A/CONF.49/P-552)
design evaluation for water desalination applications, 22:27630 (ORNL-TM-2203)
design evaluation of dual purpose power and desalination, 25:6144
design features of dual-purpose power and desalination, with production of industrial salt, 23:49646
design for Bolsa Island dual-purpose, 21:38578
design for desalting, 21:40666
design for dual-purpose organic cooled, description and cost analysis for, 23:21541
design for underground processing of bituminous materials and hydrocarbons, 21:30244(P)
design for uranium metal fueled, for single-purpose desalting plants, 21:12224 (ORNL-TM-1152(Rev.))
design of 10,000 MW(t) dual-purpose, 21:38653
design of 10,000-Mwt, 21:40664
design of chemonuclear, review of problems in, 23:40417
design of dual purpose, for propulsion and operation of large ship transported desalination plant, 24:26819(P)
design of dual purpose, for reforming gas mixtures, desalination, and power, 25:54243(P)
design of dual-purpose desalination-power, 21:19454(P)
design of dual-purpose HWOCR-type, 21:42724(R) (AI-CE-56)
design of dual-purpose, for desalting, 21:23705(R) (ORNL-4087)
design of dual-stream, dual-purpose, 21:38577
design of helium cooled, for producing hydrogen gas in endothermic system, 25:10294(P)
design of ROVI, economics for desalination, 22:1784
design of small, for desalting sea water, 21:5676(P)
design of turbines for dual-purpose, 21:12225 (ORNL-TM-1640)
design of, size optimization in, 21:14057 (CEA-R-3072)
design parameters for 70 MW(t) open vessel well-type boiling, for desalination, 25:28793
design parameters for dual purpose desalination and power, analysis of optimum economic, 24:50206
design parameters for dual purpose desalination and power, comparison of methods for calculating optimum, (T), 24:33474
design parameters for dual purpose power—desalination, calculation of optimum, (T), 24:22471
design parameters for graphite-moderated water-cooled and fast breeder dual-purpose power and desalting, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters for high temperature gas cooled power and, analysis of optimum economic, 23:45055
design parameters for liquid sodium-cooled unclad plutonium—thorium—uranium-fueled dual-purpose power and desalting, analysis of optimum economic, 23:13556 (ORNL-4202)
design parameters for reference 220 MW(t) organic cooled and moderated desalination, 25:54233 (A/CONF.49/P-177)
design parameters for superheating heavy water moderated boiling power, analysis of optimum economic, 25:28642
design parameters for water cooled graphite moderated power, 25:28538
design parameters in Iran for desalination and agro-industrial complex, analysis of optimum economic, 25:6143
design parameters of 222 MW ROVI, 25:18213
design parameters of conceptual 1000 MW(e) dual purpose power—desalination, with vertical tube still, 24:29067 (ORNL-TM-2964)
design parameters of dual purpose, for industrial electricity and steam production, 24:4114
design parameters of high temperature tungsten—uranium oxide (UO_2) fueled spherical shell, for use as thermal radiation source, 25:54245
design parameters of organic cooled and moderated low temperature desalination, 25:28792
design parameters of ROVI, 23:34930
design requirements for raw coal gasification, 24:36073
design requirements for sodium cooled fast breeder dual-purpose power and desalination, 23:49627
design with means for production of hydrogen by reaction of metal oxide, steam, and carbon monoxide, 25:26054(P)
development and economics of dual purpose in U.K, 21:23707
development and use, report to the President on international and U. S, 21:19387 (TID-23729)
development for desalination and agro-industrial complexes during November 1969 through October 1970, 25:28790(R) (ORNL-4668)
development for desalination, present status and future predictions for, 24:16265 (CONF-690218-1)
development for desalting seawater, economic, political, and social aspects of, 21:23708
development for ethylene production, 25:39326 (JUL-704-RG)
development for iron and steel production, 25:28791
development in France of dual purpose desalination and power, 25:18216
development in France, review of program for, 23:52432
development in Germany of dual purpose power and, comparison of reactor types for optimum economic, 24:22467 (BMwF-FBK-69-40)
development in India of agro-industrial complex, 25:26056
development in India of agro-industrial power, analysis of optimum economic, 24:20617 (BARC-453)
development in Israel of dual purpose desalination and power, 25:18211
development in Japan for industrial complexes, 25:23374
development in Japan of dual purpose desalination and power, 25:18217
development in Japan of dual purpose gas cooled power and, 25:37092
development in Spain of desalination, summary of, 25:54241 (A/CONF.49/P-733)
development in Spain of dual purpose desalination and power, 25:18212
development in U.K. of dual purpose desalination and power, 25:18210
development in U.S. of dual purpose desalination and power, 25:18214
development in U.S.S.R. of dual-purpose power and desalting, description of, 23:11117(T) (JPRS-47209)
development of agro—industrial complexes, analysis of optimum economic, 24:31124(R) (ORNL-4538)
development of agro-industrial complex, advantages and disadvantages of, 25:48322 (ORNL-TM-3444)
development of complexes using, review of, 25:23376
development of desalination, 25:51215
development of desalination, abstracts of papers on, 25:37091 (ORNL-TM-3402)
development of desalination, activities summary for Nov. 1, 1966, to Oct. 31, 1967, 22:30288(R) (ORNL-4239)
development of desalination, activities summary for Nov. 1, 1967 to Oct. 1, 1968, 23:28593(R) (ORNL-4409)

development of desalination, bibliography on, 25:23373 (PAECL/CHEM-118)
development of desalination, bibliography on, 25:51214 (ORNL-NDIC-10)
development of desalination, bibliography on, 23:31216 (ORNL-NDIC-5)
development of desalination, conference on, 23:49607
development of desalination, in Italy, 21:15761
development of desalination, long-range potential for, 25:46320
development of desalination, review in France of program for, 23:49610
development of desalination, review of Japanese program for, 23:49613
development of desalination, review of ORNL program for, 22:35585
development of desalination, review of programs for, 23:23992 (ORNL-TM-2550)
development of desalination, review of programs for, 24:46101 (ORNL-TM-2977)
development of desalination, review of U. S. program on, 23:49611
development of desalination, review of U. S. program for, 23:49612
development of desalination, state-of-the-art, 24:22470
development of desalting, optimum economics for, 23:26102
development of dual purpose, 21:25709 (ORNL-TM-1618(Pt.2))
development of dual purpose, 21:27795
development of dual purpose desalination, 21:46936
development of dual purpose desalination and power, 25:18208
development of dual purpose desalination and power, 25:18207
development of dual purpose desalination and power, 25:60201
development of dual purpose desalination and power, analysis of optimum economic, 24:31124(R) (ORNL-4538)
development of dual purpose desalination and power, analysis of optimum economic, 25:18209
development of dual purpose desalination and power, in Japan, 25:18221
development of dual purpose desalination and power, review of, 25:18219
development of dual purpose power and desalination, cost analysis for, 24:33475
development of dual purpose power and, for agro-industrial complexes in India, 25:54238 (A/CONF.49/P-529)
development of dual purpose power and, for economic iron production in Japan, 24:16266
development of dual purpose power plants and industrial complexes, 24:24898
development of dual purpose power, for industry, 24:47918
development of dual purpose power, for space heating and air conditioning, 25:34388
development of dual purpose, for power production and desalination, 25:34203
development of dual purpose, for power production and desalination, 25:39325 (A/CONF.49/P-51)
development of dual purpose, for use in chemical industry, 25:26055
development of dual-purpose, 21:5675 (ORNL-TM-1618(Pt.1))
development of dual-purpose 1300 MW(e) steam-producing power, description of, 22:35512
development of dual-purpose desalting and power, prediction of future worldwide, 23:13558
development of dual-purpose power and desalination, summary of U. K. program for, 23:49609
development of dual-purpose power and desalination, with flash distillation plant, 23:49614
development of dual-purpose power and desalination, technical and economic feasibility of, 23:49645
development of dual-purpose power-desalination, review of, 23:13559
development of dual-purpose power-desalination, United Kingdom program for, 23:13564
development of dual-purpose power-desalting, 23:9129
development of heavy water moderated gas cooled dual purpose power and desalination, review in U. K. of optimum economic, 24:26820
development of high temperature gas cooled, 25:60202
development of high temperature gas cooled dual purpose power and, analysis of economic and technical possibilities for, 23:37677
development of high temperature helium cooled power, 25:28794
development of high temperature, for chemical industry applications, 24:29074
development of large-scale desalination, technical and economic aspects of, 23:49608
development of multiple purpose, for agro-industrial complexes, 24:18518
development of multiple purpose, for chemical industry, 25:3915
development of ocean based power, for offshore industrial complex, 25:5881
development of optimum, desalting for, 23:2095
development of ROVI, review of, 23:34930
development of, review, 22:4309 (TID-24102)
development program for single- and dual-purpose desalination—power, analysis of optimum, 22:35582
development program for South African dual-purpose power—desalination, analysis of optimum, 22:44834 (PEL-175-E)
development program for U.K. dual-purpose desalination and power, description of, 22:42352
dynamics analysis of, numerical integration methods used in FIFI 3B code for, 23:28592 (AEEW-M-846)
economic analysis of, for agro-industrial complexes, 23:11167 (ORNL-4290)
economic aspects in methane cracking, 24:25037
economic aspects of desalination, 21:17515 (STI/DOC-10/69)
economic aspects of integrating dual-purpose power and desalination, into electricity supply systems, 23:49641
economic development of dual-purpose power and desalination, 23:49640
economic evaluation of 300 MW(th) dual-purpose power and, 22:44858
economic feasibility for Southern California dual-purpose, 22:10020
economic optimization of dual-purpose power and desalination, effects of brine temperature on, 23:49637
economic optimization of dual-purpose power and desalination, 23:49634
economic optimization of dual-purpose power and desalination, effects of brine temperature on, 23:49636
economic study of chemonuclear single and dual-purpose, 21:8116 (BNL-50006)
economics for agro-industrial complex, 25:48322 (ORNL-TM-3444)
economics for desalination in United Arab Republic, 25:54232 (A/CONF.49/P-140)
economics for desalting, 21:23705(R) (ORNL-4087)
economics for Europe dual-purpose multiflash desalination, analysis of optimum, 22:44879 (EUR-4034)
economics for high temperature gas cooled dual purpose desalination and power, analysis of optimum, 24:38618 (JUL-656-PA)
economics for industrial power and steam production, (T), 25:18220
economics for iron and steel production, 25:18206
economics for iron ore reduction, coal gasification, and petroleum cracking, 25:51213 (JUL-745-RG)
economics for iron production, 25:3916
economics for multiple application power, ammonia producing, and desalting, design requirements for optimum, 24:18509 (NP-18089)
economics for production of chemicals from sea salt, 23:49642
economics for seawater desalination of dual purpose power, 24:13622
economics for small dual purpose desalination and power, 25:18215
economics for use in desalination and agro-industrial complexes in Israel, 25:54231 (A/CONF.49/P-18)
economics for water cooled dual purpose power, for urban heating and power, 25:10094 (ORNL-HUD-14)
economics in agro-industrial complexes, 23:37676
economics in India for agro-industrial complex, 25:25845 (BARC/INF-2)
economics in India of dual purpose, for agro-industrial complexes, 25:1805
economics in nuclear energy centers, effects of district heating on peak load operation, 24:29073
economics in Puerto Rico for agro-industrial complex, 25:53922 (TID-25603(Vol.1))
economics in Puerto Rico for agro-industrial complex, 25:53921 (TID-25602)
economics in Puerto Rico for industrial applications of power, programming for optimum, 25:10291 (TID-25630)
economics in U.S.S.R. for triple purpose power and desalination and industrial heat, analysis of optimum, 24:18468(T) (AEC-tr-6991)
economics of 10,000-MW(t) dual purpose, 21:25710 (RL-GEN-925)
economics of 3000-MW dual-purpose desalination, 21:46936
economics of 750 Mgd desalination, using vapor-compression cycle, 23:9178 (K-D-2122)
economics of 750 Mgd-1870 MW(e) dual-purpose power-desalination design concept, 23:9178 (K-D-2122)
economics of AGR and SGHW type, for desalination and dual-purpose power and desalination plants, 23:21539 (NP-17802, pp 145-62)
economics of AGR and SGHWR types, for dual purpose power and desalination, 24:13621
economics of agro-industrial complexes, effects of chemical recovery from waste brines on, 24:29072
economics of agro-industrial complexes, plant concept for demonstration of, 24:29071
economics of back-pressure desalination and power, comparison of fossil-fuel plants with, 22:35584
economics of combined desalination and ammonia synthesis complex, (T), 25:23379
economics of desalination, 21:40666
economics of desalination, analysis of, 22:35583
economics of desalination, bibliography on, 23:9180 (PEL-167)
economics of desalination, comparison between market growth rate and, 21:30242 (ORNL-TM-1399)
economics of desalination, effects of steam leakage on, 22:30289 (ORNL-TM-2049)
economics of desalination, for agricultural water production, 23:47286
economics of desalination, for agricultural water supply, 23:31217
economics of desalination, for agricultural water production, 23:49643
economics of desalination, for Puerto Rico energy center, 25:46321
economics of desalination, for use of desalted water in agriculture, 23:49648
economics of desalination, in Japan, 25:23375
economics of desalination, in single and dual-purpose plants in France and Italy, 23:15697 (EUR-4090)
economics of desalination, ORVE code for calculations of, 25:18205 (ORNL-TM-3149)
economics of desalination, review of, 24:4109
economics of desalination, using multi-stage flash evaporation, 22:30294
economics of desalination, with combination vapor-compression and multi-stage-flash evaporators, 23:49639
economics of desalination, with multi-stage flash—vapor recompression plant, 23:49605 (STI/DOC-10/93)
economics of desalting, tabular summary of, 22:35579
economics of dual purpose desalination and power, analysis of optimum, 25:18218
economics of dual purpose desalination plants, method for calculation of, 25:23377
economics of dual purpose desalination plants, optimization of, (T), 25:23378
economics of dual purpose desalination, at power levels up to 500 MW(e), 25:54236 (A/CONF.49/P-371)
economics of dual purpose desalination, for coastal areas of Pakistan, 25:54234 (A/CONF.49/P-299)
economics of dual purpose desalination, in West Germany, 25:46323
economics of dual purpose for power production and desalination in India, 24:46100 (BARC-480)
economics of dual purpose power and desalination, methods for calculation of, 24:47919
economics of dual purpose power and desalination, predictions of future, 23:43184 (CONF-670338, pp 49-55)
economics of dual purpose power and desalination, in Australian agro-industrial complexes, 24:18749 (NP-18147)
economics of dual purpose power and desalination, for use in agro-industrial complexes, 25:39324 (A/CONF.49/P-50)
economics of dual purpose power and desalination, in Brazil, 23:43185 (CONF-670338, pp 57-81)
economics of dual purpose power and space heating, 25:53894 (A/CONF.49/P-322)
economics of dual purpose power and, (T), 25:3914
economics of dual purpose power and, for chemical production and desalting, 25:54244
economics of dual purpose power and, for metallurgical industries, 22:10054
economics of dual purpose power-desalination, in Lima, Peru, area, 22:44880 (NP-17508)
economics of dual purpose, for alumina and aluminum production, 24:18751
economics of dual purpose, for desalination and aluminum production, 24:18750
economics of dual purpose, for desalination and electricity production in Spain, 24:52981
economics of dual purpose, for industrial power and steam production, 24:4111
economics of dual purpose, for industrial power and steam production, 24:4112
economics of dual purpose, for industrial power and steam production, 24:4115
economics of dual purpose, for power and desalination, 24:46103
economics of dual purpose, for Puerto Rico agro-industrial complex, 25:48323 (ORNL-TM-3445)
economics of dual purpose, in agro-industrial complexes, 25:44175
economics of dual purpose, in central heating stations, 25:57135
economics of dual purposes, in agro-industrial complexes, (T), 25:26053
economics of dual-purpose desalination, 21:15681
economics of dual-purpose power and, 22:16232
economics of dual-purpose power and desalination, for southwest U. S.—northern Mexico area, 23:49617
economics of dual-purpose power and desalination, in industrial complex for Israel, 23:49647
economics of dual-purpose power and desalination, for the Catalonia region of Spain, 23:49619
economics of dual-purpose power and desalination, in the Republic of Singapore, 24:4110
economics of dual-purpose power and desalination, with combination vapor-compression and multi-stage-flash evaporators, 23:49638
economics of dual-purpose power and desalination, with co-production of anhydrous ammonia, 23:49644
economics of dual-purpose power-, 22:39738 (CONF-671103-6)
economics of dual-purpose power-desalination, 21:38652
economics of dual-purpose power-desalination, 22:48661
economics of dual-purpose power-desalination, 23:13563
economics of dual-purpose power-desalination, 22:25030
economics of dual-purpose power-desalination, (T), 22:35586
economics of dual-purpose power-desalination, (T), 22:35580
economics of dual-purpose power-desalination, based on AGR and SGHWR systems, 22:30294
economics of dual-purpose power-desalination, effect of plant parameters on, 23:13562
economics of dual-purpose power-desalination, effects of water-power ratios and dual desalination processes on, 22:30292
economics of dual-purpose power-desalination, for production of ammonium nitrate from electrolytic hydrogen, 22:47002 (ORNL-TM-2202)
economics of dual-purpose power-desalination, for Fortaleza, Brazil, 22:22795 (NP-17406)
economics of dual-purpose power-desalination, in integrated systems, 23:13561
economics of dual-purpose power-desalination, in U.S.S.R, 23:15699
economics of dual-purpose power-desalination, parameter selection method for analysis of optimum thermal, (T), 23:4399
economics of dual-purpose power-desalination, review of, 21:35660
economics of dual-purpose power-desalination, socio-economic method for estimation of, 22:22794 (NP-17405)
economics of dual-purpose power-desalination, with both flash evaporation and electrodialysis desalting plants, 22:22793 (NP-17404)
economics of dual-purpose steam-generating and power, 22:42350 (TRG-Report-1691)
economics of dual-purpose, computer program for calculation of, 21:30160 (ORNL-TM-1523)
economics of dual-purpose, for desalting seawater, 21:12508

economics of dual-purpose, for power production and desalination, 24:29069
economics of dual-purpose, for power production and municipal waste water distillation, 23:23991 (ORNL-TM-2547)
economics of dual-purpose, for power production and desalination, 24:29068
economics of dual-purpose, for production of fresh water and electric power, 23:13933
economics of dual-purpose, in the Soviet Union, 21:17514 (NP-16558)
economics of electricity production by, 22:16361 (ORNL-TM-1629)
economics of feedwater heating in dual-purpose, 21:30243 (ORNL-TM-1563)
economics of high temperature gas cooled, in closed cycle gas turbine power and desalination plants, 23:49628
economics of high temperature gas cooled, in closed cycle gas turbine power and desalination plants, 23:49631
economics of high temperature helium cooled, for energy supply in iron ore reduction processes, 24:41058 (EUR-4420)
economics of industrial-only complexes using, 23:11167 (ORNL-4290)
economics of large agro-industrial complexes, cost-benefits analysis of, 24:29070
economics of large dual-purpose power-desalination, 23:13560
economics of large dual-purpose, for industrial process plants, 22:22796
economics of medium-size, for industrial process steam and space heat supply, 23:28594 (ZJE-41)
economics of multi-stage flash distillation dual-purpose, analysis of, 22:42353
economics of natural uranium fueled gas cooled graphite moderated, in desalination plants, 23:49633
economics of natural uranium—gas cooled—graphite desalination, for various distillation processes, 23:28596
economics of operation of desalination, 22:18544 (STI/DOC-10/80)
economics of pressurized water, for use in dual-purpose power and desalination plants, 23:49624
economics of pressurized-water, in dual-purpose power-desalination plants, 22:50786
economics of ROVI, effects of operating temperature on, 23:49632
economics of single and dual purpose desalination, 25:46322
economics of single purpose and dual purpose, for separated power and water load supply, 24:43830 (ORNL-TM-2899)
economics of single- and dual-purpose power—desalination, 23:17656
economics of single-purpose desalination, 21:12224 (ORNL-TM-1152(Rev.))
economics of SURFSIDE concept for desalination and power and isotope production, 23:43182 (CONF-670338, pp 19-33)
economics of, analysis for optimization of, 25:37032
economics of, bibliography on, 24:11103 (STI/PUB-21/30(Vol.2))
economics optimization of dual-purpose power and desalination, 23:49629
efficiency in production of hydrogen by decomposition of methane, 23:26218 (JUL-557-RG)
energy from, production of fixed nitrogen using, 21:36049
evaporation for dual purpose power and, distillation cycle for, 25:54240 (A/CONF.49/P-590)
evaporator dynamics for desalination, analysis of three-stage flash, (E/T), 23:9221 (ORNL-TM-2188)
feasibility analysis of dual-stream power-desalination HWOCR concept, 22:30296
fuel cost calculations for, 22:3813(R) (AI-CE-54)
fuel cycle economics for liquid metal-cooled fast breeder dual-purpose desalination, analysis of optimum, 22:32910
fuel cycle economics for, evaluation of, 21:46863 (ORNL-4145, pp 275-81)
fuel cycle for uranium oxide (UO_2) fueled pressurized-water single-purpose desalination, analysis of optimum economic, 23:13557 (ORNL-TM-2046)
fuel cycles for power, economics of thorium, 25:54125 (A/CONF.49/P-157)
fuel element design for dual-purpose power-desalination HWOCR, economic evaluation of conceptual, 23:21537 (AI-CE-Memo-59)
fuel elements for ROVI, design parameters of, 23:49623
fuel elements for, design of, 22:3813(R) (AI-CE-54)
fuel elements for, development of, 25:2644 (ORNL-4570, pp 157-60)
fuel fabrication cost estimates for desalination, 22:8255 (ORNL-4170, pp 158-9)
fuel fabrication costs for desalination, estimates, 21:14058 (ORNL-3970, pp 146-8)
fuel tubes for, costs of cladding metallic uranium, 21:2871 (ORNL-TM-596)
fuels for desalination, evaluation of metallic uranium as, 24:11288 (ORNL-TM-2451)
heat exchangers leak control method for dual-purpose, 21:21750 (ACNP-65568)
heat transfer system for dual-purpose high-temperature gas-cooled power and iron ore-reductions, flow diagrams for, 23:15700
helium effluent from, economics of coal decomposition using 1200°C, 23:11319 (JUL-554-RG)
industrial applications in addition to desalting, 21:23705(R) (ORNL-4087)
industrial process applications in desalination complex containing, 21:45209 (ORNL-4145, pp 297-302)
industrial usage of, 22:39738 (CONF-671103-6)
list of U. S., complete, 24:52746 (TID-8200(22nd Rev.))
operation aspects of 222 MW ROVI, 25:18213
operation economics of 100 to 400 MW(t) organic-cooled and organic-moderated, 22:12081
operation economics of 200 MW(e) dual-purpose desalination, design of, 22:12082
operation in Puerto Rico of agro-industrial complex, cost analysis and production efficiency calculations for, 25:54242 (TID-25603(Vol.2))
operation of agro—industrial complexes, dynamic programming algorithms for optimum, 24:33476
operation of desalination, description of optimum, 22:35583
operation of dual purpose power and desalination, cost analysis for, 24:33475
operation of dual purpose power and desalting, comparison with fossil fuel plant for economic, 24:4108
operation of dual-purpose power and desalination, requirements for economic, 23:49626
operations aspects of dual purpose desalination and power, analysis of nominal and partial load, 25:60201
performance criteria of organic cooled, for small desalination plants, 23:49621
performance of advanced breeder desalting, analysis of optimum economic, 23:11081 (CONF-680419-, pp 27-40)
performance of dual-purpose desalination and power, analysis of optimum economic and thermodynamic, 22:39871
performance of dual-purpose power-desalination, steam operating temperature for optimum, (T), 23:21540
performance of multi-purpose agro-industrial complexes, analysis of optimum, 22:44881 (ORNL-4291)
performance of multi-purpose chemical production, desalination, and power, analysis of optimum economic, 23:15698(T) (ORNL-tr-2078)
performance parameters for dual-purpose, effects of brine heater leakage on, 22:32955
physics measurements in uranium metal-fueled pressurized-water 4300 MW(t), description of, 22:32954
power and water production from combined U. S.-Mexico dual-purpose, administrative summary of feasibility summary on, 23:13417 (TID-24681)
power and water production from combined U. S.-Mexico, feasibility study on, 23:13418 (TID-24767)
power conversion system for dual purpose water cooled and moderated desalination and power, design requirements for pressurized water and steam isolation loops in, 24:33473 (NP-18234)
production of chemicals at desalination plant, minimization of scale formation in equipment for, 21:39113 (ORNL-4057)
production of industrial gases by, 22:3853
productivity of chemonuclear, for variations in dose rate and radiolized gas temperature, (T), 25:1947
radioactive effluents from dual purpose water cooled and moderated desalination and power, 24:33473 (NP-18234)
requirements for power-desalination, 22:25030
requirements in Africa of dual purpose power and desalination, 24:46004
safety aspects of dual purpose power and space heating, 25:53894 (A/CONF.49/P-322)
safety aspects of dual purpose, for industrial electricity and steam production, 24:4113
safety of dual purpose, in power and district heating plants, 25:54235 (A/CONF.49/P-311)
safety of operation of desalination, analysis of leakage in brine heater, 22:30289 (ORNL-TM-2049)
site in Puerto Rico for agro-industrial complex, data analysis for selection of optimum, 25:54162 (TID-25603(Suppl.))
sites for agro-industrial complexes, criteria for potential, 25:18204 (ORNL-4293)
sites for combined U. S.-Mexico dual-purpose, description of various, 23:13418 (TID-24767)
sites for combined U. S.-Mexico dual-purpose, geohydrologic characteristics of, 23:13418 (TID-24767)
sites for combined U. S.-Mexico dual-purpose, meteorologic and geologic characteristics of, 23:13418 (TID-24767)
siting feasibility of off-shore, 21:23705(R) (ORNL-4087)
siting of Bolsa Island, 21:38578
siting of dual purpose power, effects of engineered safeguard requirements on economics of, 24:20618 (ORNL-TM-2380)
siting practices for, effects of urban heat supply economics on, 24:43829 (ORNL-HUD-11)
steam generator for dual purpose power and desalination, analog model for simulation of, 24:38619
survey of dual-purpose power and desalination, 22:10056
turbine plant studies for, 22:3813(R) (AI-CE-54)
turbines for dual-purpose desalination-power, costs and performance of, 21:5632 (SL-2317)
use for desalination of water, complete cost analysis of, 22:30291
use for desalination of water, summary of requirements for, 22:30293
use for hydrogen production, feasibility of, 24:46102
use for iron and steel production, 25:60200
use for iron ore reduction, 22:25073(P)
use for iron production, economics of, 23:49606
use for production of hydrogen, 25:10292(P)
use for water desalination, discussion on, 22:30290
use in Germany for gas reduction of fossil fuels, 23:45116 (JUL-576-RG)
uses for desalination in USSR, 21:35659(T) (AEC-tr-6885)
uses of dual-purpose power-desalination, in chemical and metallurgical industries, 21:1204 (ORNL-TM-1561)
vapor compression systems for, analysis of, 21:12226 (ORNL-TM-1657)
water from desalination, economics for agriculture of, 23:33093 (STI/PUB-210)

REACTORS, PRODUCTION
see also Calder Hall Reactors
see also Chinon Reactors (EDF-1)
see also Chinon Reactors (EDF-2)
see also Grosswelzheim Superheat Reactor
see also Hanford Production Reactors
see also Hanford Production Reactors (N)
see also Hanford Test Reactor
see also Marcoule Reactors
see also Marcoule Reactors (G-1)
see also Marcoule Reactors (G-2)
see also Marcoule Reactors (G-3)
see also Plutonium Recycle Test Reactor
see also Savannah River Production Reactors
see also Windscale Production Reactors
construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
description of U. S. facilities, 22:14142 (TID-8200(17th Rev.))
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
descriptions of U. S., tables, 21:38467 (TID-8200(16th Rev.))
development of, review, 22:4309 (TID-24102)
economics for radioisotope production in Pontryagin's principle for calculating, 22:20929
economics for radioisotope production in, Pontryagin's principle for calculating, 22:20928
economics of, 21:27709
fuel cores for, fabrication of uranium, 22:2588 (NLCO-991)
fuel meltdown in, fission product release from uranium-metal, 21:38737
list of U. S., complete, 24:52746 (TID-8200(22nd Rev.))
list of U.S., complete, 24:16124 (TID-8200(21st Rev.))
list of U.S., complete, 25:53920 (TID-8200(24th Rev.))
neutron fission cross section measurements in, use of various filters for neptunium-238 thermal, 23:37758
operation of, on-line computer control of, 21:1215 (DPSPU-66-30-5)
process tube bowing in, displacement gage for measurement of, 22:39890(P)
process tube replacement in, force readout system for apparatus for, 23:37683(P)
shutdown of, tamper-indicating system for assuring, 21:46959 (WASH-1076, pp 87-95)
startup parameter of, time-to-power as, 21:15670
xenon oscillation experiments in, summary description of, 24:7265

Reactors, Ramjet (Tory)
see Pluto Reactors (Tory)

REACTORS, REFLECTOR-MODERATED
blankets for, critical size and eigenvalues for, 21:1188
critical mass change in, effects of hot hydrogen gas on, 21:27792
critical uranium-235 fuel concentration, 21:35657
design concept for rocket, with beryllium, 25:6136

REACTORS, RESEARCH
see also Advanced Test Reactor
see also Air Force Engineering Test Reactor
see also Aircraft Shield Test Reactor
see also Ames Research Reactor
see also Argonaut Reactor
see also Argonne Advanced Research Reactor
see also Argonne Fast Source Reactor
see also Argonne High-Flux Research Reactor
see also Argonne Low-Power Research Reactor
see also Argonne Mighty Mouse Research Reactor
see also Argonne Research Reactor
see also Argonne Thermal Source Reactor
see also Babcock and Wilcox Test Reactor
see also Belgian Reactor-1
see also Belgian Reactor-2
see also Belgian Reactor-3
see also BEPO
see also Brookhaven Beam Research Reactor
see also Brookhaven Medical Reactor
see also Brookhaven Neutron Source Reactor
see also Brookhaven Reactor
see also Cadarache Reactors (Cesar)
see also Cadarache Reactors (Rapsodie)
see also DIDO Reactors
see also Engineering Test Reactor
see also Fontenay-aux-Roses Reactors (Triton)
see also General Electric Test Reactor
see also GLEEP
see also Grenoble Reactors (Melusine)
see also Grenoble Reactors (Siloe)
see also Ground Shield Test Reactor
see also Hanford Test Reactor
see also Initial Engine Test
see also Irradiation Facilities
see also Japanese Experimental Fast Reactor
see also Japanese Materials Testing Reactor
see also JEEP Reactor
see also JEEP Reactor-II
see also LIDO
see also Livermore Pool-Type Reactor
see also Los Alamos Omega West Reactor
see also Lynchburg Test Reactor
see also Materials Testing Reactor
see also Michigan Research Reactor
see also MIT Research Reactor
see also NASA Research Reactor
see also NBS Research Reactor
see also NRL Research Reactor
see also NRU Reactor
see also NRX Reactor
see also Nuclear Test Reactor
see also ORNL Fast Burst Reactor
see also ORNL Graphite Reactor
see also ORNL High-Flux Isotope Reactor
see also ORNL Research Reactor
see also Pennsylvania Research Reactor
see also Philippine Research Reactor
see also Physical Constants Testing Reactor
see also Power Burst Facility

see also Reactor Safety Experiments
see also Reactors, Swimming-Pool
see also Saclay Reactors (Aquilon)
see also Saclay Reactors (EL-2)
see also Saclay Reactors (EL-3)
see also Sandia Pulsed Reactor
see also Sandia Pulsed Reactor-II
see also Savannah River Components Test Reactor
see also Savannah River Reactor Mockup
see also Savannah River Thermal Test Reactor
see also SLEEP Reactor
see also South African Research Reactor
see also Spanish Reactors (JEN-1)
see also Spanish Reactors (JEN-2)
see also Swedish Reactors (R-0)
see also Swedish Reactors (R-2)
see also Tower Shielding Facility
see also Walter Reed Research Reactor
see also Western Beam Research Reactor
see also Whiteshell Reactor No. 1
see also ZEBRA
see also ZEEP
see also ZOE Reactor

accelerator-booster targets of fast pulsed, neutron yields from, (E), 22:18557 (GA-8087)
accident analysis for TAPIRO fast source, analog model methods for reactivity insertion, 23:15680
accident analysis for, summary on, 24:20936(R) (LMEC-70-1)
accident analysis of TAPIRO, use of analog simulators for reactivity insertion, 22:39883
accident in HFR, description of and safety procedures for fuel irradiation capsule failure, 23:2073 (RCN-99)
accidents in fast pulsed, review of, 24:11247 (CONF-690102-, pp 373-84)
accidents in pulsed fast, theoretical models for analysis of maximum hypothetical, 22:35644
accidents in University of Missouri, analysis of potential, 23:23972 (DOCKET-50186-8)
accidents in, analysis of maximum radiation hazards for, 25:31530
accidents in, analysis of radiation hazards for, 25:31622
accidents in, role of Ministry of the Interior in Italy following, 24:22367
accidents in, safeguards analysis of maximum credible, 23:23977
activation analysis facilities for TRIGA, design of, 21:45028
air lock for FRG, design parameters of personnel, 23:52422
applications of Apsara, description of agricultural and biological, 23:15677 (NP-17764)
argon-41 production in exposure of TRIGA, possible control of rooms, 22:51625
Argonne National Laboratory Reactor Engineering Division Report, July 1, 1965—June 30, 1966, 21:40525(R) (ANL-7290)
atmospheres of KUR, analysis of activated aerosol and fission product dust in, 23:40391 (KURRI-TR-56)
beam hole configuration for ASTRA, description of 751 eV proton energy spectra measurement at 10^{-5} to 10^{-9} torr in, 22:44898 (SGAE-PH-67/1968)
beam hole design for, 21:5699(P)
beam hole for DR-3, design parameters for low-background thermal neutron collimated, 23:17255 (RISO-147)
beam holes in Soviet SM-2, neutron flux measurements in, 21:38673
beam holes of VVR-S, construction description of multi-range spectrum biological, 22:22849
beam port for capture gamma ray measurements in UVAR, design of tangential, 23:47246 (CNM-R-2(Vol.2), pp 841-52)
beam port system for UMR-1, out of pile fission product production in, 23:47247 (CNM-R-2(Vol.2), pp 899-908)
beam tubes in Pakistan Research Reactor, reactivity worth measurements on, 22:22825 (PINSTECH/RO-4)
beryllium reflector for dynamic analysis of, method for use of, 21:35764
bibliography on heavy water moderated, 24:22239 (STI/PUB-21/37)
book: Directory of Nuclear Reactors. Vol. VI. Research, Test, and Experimental Reactors, 21:21774 (STI/PUB-125(Vol.6))
book: Irradiation Technique at Research Reactors, in German, 25:1940
book: Nuclear Engineering Volume III, in French, 21:19432
book: Nuclear Reactor Experiments, 21:46957
book: Protection Against Neutron Radiation up to 30 Million Electron Volts, 22:45570
building air monitoring at Texas A and M, analysis of Sept. 1961 to June 1963 data from, 24:2015 (DOCKET-50128-2)
building exhaust gases from Texas A and M, design and calibration of monitoring system for, 24:2022 (DOCKET-50128-10)
building exhaust gases from Texas A and M, design and calibration of monitoring system for, 24:2018 (DOCKET-50128-5)
buildings and facilities for University of Missouri, design of auxiliary, 23:26071 (DOCKET-50186-1)
buildings for Mexico TRIGA Mark 3, design parameters and layout of, 25:34411
bypass channel for TRIGA, construction of tangential, 22:10064 (RT/ING-(66)26)
calorimeters for, calibration theory for in-core, 23:47343 (ZJE-49)
calorimeters in Czechoslovakia for, design parameters for various types of, 23:24475
chemistry associated with RA, 24:19044 (IBK-832)
coherence measurements in coupled-core KFZ Argonaut, use of two detector method for two-node, 22:42379
conference on utilization of, Mexico, May 2 to 4, 1967, Vol. 1, 23:47235 (CNM-R-2(Vol.1))
conference on utilization of, Mexico, May 2 to 4, 1967, Vol. 3, 23:47249 (CNM-R-2(Vol.3))
conference on utilization of, Mexico, May 2 to 4, 1967, Vol. 2, 23:47244 (CNM-R-2(Vol.2))
conference on, abstracts for papers of 1968 ANS student, 23:52303 (CONF-680328-(Absts.))
configuration of cylinder-enclosed, with vertical core-penetrating in-pile loop, 22:50821(P)
configuration of ERMINE fast—thermal flux safety test region in MINERVE, 22:14263(T) (AEC-tr-6910)
configuration of JRR-3, description of, 22:48733 (JAERI-6004)
conrol system for CABRI, monitoring device for computer program in, 24:46082 (CEA-N-1274)
construction and commissioning of Mainz TRIGA, delays in, 22:22847
construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
construction features of KFKI, brief description of, 23:15686
construction in Latin America, summary of existing and planned, 25:53912 (A/CONF.49/P-757)
construction in U.S., review of legal actions for, 24:50055
construction in U.S., safety aspects of, 24:50050
construction in urban areas of U.S., licensing procedures for, 25:57131
construction of HTR, description of, 22:47031
construction of Mexico TRIGA Mark 3, 25:34412
construction of Pennsylvania State University TRIGA MARK 3, description of conversion, 23:47238 (CNM-R-2(Vol.1), pp 390-407)
construction of TR-1, description of, 22:35592 (CNAEM-47)
construction of TRIGA, 22:20975(R) (BMwF-FBK-67-89)
construction of, instructions and procedures for, 24:33177
containment building of University of Missouri, safety analysis of, 23:23967 (DOCKET-50186-3)
containment structure for University of Virginia Reactor, krypton-85 tracer technique for leak rate testing of, 25:41556
containment system for DR-3, accident release radioactivity distribution for, 25:28763 (RISO-205)
containment system of University of Missouri, design and reliability of, 23:23972 (DOCKET-50186-8)
containment systems for Israel IRR-1, description of, 22:20921
containment vessel for ESSOR, stress analysis of, 21:13968 (EUR-3159.e)
containment vessel leakage measurements at DR-3, 21:35724 (RISO-137)
contamination of water circuits of WWR-C, by microorganisms, 22:2557
control algorithm synthesis in Japan for TTR-1, use of time optimal control theory for, 23:40404
control and operation of Cabri, evaluation of use of on-line computers for, 23:13445 (CEA-Note-862)
control and protective systems for, circuits and logic systems for, 23:21528
control and safety systems for fast CORAL-I, description of, 23:21529
control by digital computer system, 21:27819
control data recording in CABRI, use of CAE 330 computer for, 22:18566
control element calibrations, method for, 21:23728 (RCN-65)
control element for 5 MW(t) Army Materials, reactivity worth of, 24:9142 (DOCKET-50047-3)
control elements for ATRC, description of concept of, 23:9202
control elements for DR-3 Reactor, KINIKOO computer program for calculation of reactivity worth of, 24:13603 (RISO-M-984)
control elements for UA-RR-1, reactivity worth of boron carbide, (E/T), 25:37136 (UARAEE-66)
control elements for, malfunctions during Aug. to Sept. 1969 of, 24:13613
control in France of, use of digital computers for, 23:40306
control instrumentation of University of Missouri, safety analysis of, 23:23972 (DOCKET-50186-8)
control of CABRI, use of digital computer for, 23:40412
control of high performance, use of parallel plate ionization chamber for, 21:8621
control of ISPRA-1, use of an analog method to optimize, 22:16278 (EUR-3735)
control of Japanese TTR-1 by computer, 21:38693
control of JRR-1, TTR, and HTR, use of digital computers for, 23:40410
control of pulse-type, effects on safety of, 22:44909
control of Spanish fast CORAL-I, effects of delayed neutrons on, 23:21531
control of VIPER Pulsed Fast Reactor, performance of on-line digital computer for, 23:40407
control of zero power, diagrams for calculation of limit cycle for on-off, 23:43167
control of zero power, time optimal digital program for, (E/T), 24:43826
control of, performance of on-line digital computer systems for, 23:40305
control of, use of analog computer simulator for teaching, 23:26126 (AAEC/TM-498)
control rod calibration for VVR-K, 23:19533
control rod calibration in Pakistan Research Reactor, 22:22825 (PINSTECH/RO-4)
control rod calibration of Queen Mary College Reactor, description of pulsed neutron method for, 22:27474
control rod calibrations of AFRRI-TRIGA, 21:27796 (AFRRI-TN-66-3)
control rod drive system for excursion-type, description of bi-directional variable-speed, 23:9213(P)
control rod drives for TRIGA, problems with actuation of, 23:43137
control rod drop measurements in FRJ-1, 23:11286 (JUL-546-RE)
control rod motion in AFRRI-TRIGA pulsed, system for measurement of, 23:19537
control rod motion in AFRRI-TRIGA, effects on pulsed operation of transient, 23:26066 (AD-678725)
control rod motion in AFRRI-TRIGA, instrumentation for measurement of transient, 23:26066 (AD-678725)
control rod worth in MOATA, measurement of boron, 21:35664 (AAEC/E-181)
control rod worth measurements for ESSOR and ISPRA-1, procedure for, 22:20923
control rods for Avogadro RS1, neutron flux variations effects on, 21:46953
control rods for ESSOR, use of analog and digital computers for calibration of, 23:9135
control rods for Netherlands, use of off-line computer for calculating reactivity worth of, 22:20922
control rods for NSCR, modification of core grid plate to accept fueled follower, 25:51188
control rods for Spanish fast CORAL-I, description of drives for, 23:21527
control rods for Texas A and M TRIGA, calibration of, 23:52426
control rods for Texas A and M, calibration of, (E), 24:2014 (DOCKET-50128-1)
control rods for, description of multi-layer concentric cylinder, 22:14283(P)
control rods for, dynamic testing of electromagnetic release for DR-3, 22:3897 (RISO-M-627)
control rods for, reactivity worth of, 22:50828
control rods for, survey of problems with materials for, 23:9217
control rods of Texas A and M, damping characteristics of scrammed, (E), 24:2021 (DOCKET-50128-8)
control system for DR-2, development of computer, 25:42206(R) (RISO-M-1357)
control system for DR-2, PDP-8 computer-based, 22:51279(R) (RISO-M-729)
control system for ESSOR, description of automation modes for on-line digital computer, 23:19531
control system for fast pulse, description of electron accelerator, 24:26815
control system for Hitachi Training Reactor, description of digital computer, 22:30317
control system for HTR, operation of computer, 25:46298 (KURRI-TR-75, pp 34-9)
control system for JRR-1, description of computer startup, 22:16286 (JAERI-1152)
control system for KUR-2, methods for simulation of computer, 25:46302 (KURRI-TR-75, pp 108-10)
control system for KUR-2, operation of computer, 25:46301 (KURRI-TR-75, pp 105-7)
control system for KUR-2, operation of computer, 25:46300 (KURRI-TR-75, pp 99-104)
control system for Liverpool and Manchester Universities Research Reactor, performance of, (E/T), 23:43155
control system for Manchester and Liverpool Universities', description of on-off servomechanism, 22:12104
control system for Missouri University Research Reactor, description of analog and digital computer, 25:41549
control system for Munich, description of automatic, 21:1213(T) (UCRL-Trans-10057)
control system for RA-3, analog simulation of automatic, 24:38615
control system for RB-1, calibration of, 22:50831
control system for Toshiba Training Reactor 1, use of reactivity balance method for digital computer, 24:16250
control system for TR—O Czechoslovakia, vertical overflow for, 21:44948 (UJV-1845)
control system for TRIGA MARK II, testing of, 23:43153
control system for TTR, operation of computer, 25:46297 (KURRI-TR-75, pp 30-3)
control system for University of Missouri Research Reactor, development of on-line digital computer, 25:60185
control system for VVR-S, construction description of, 22:22849
control system for VVR-S, development of automatic, 21:12245
control system for ZR-4, description of, 22:42367
control system for ZR-4, description of self-checking safety and interlock, 22:47020
control system for, design of automatic startup and power regulation, 25:60169
control system for, use of digital computer in, 23:40411
control system in, description of sample handling scram-prevention, 22:14278(P)
control system modification for ALRR rabbit systems, 23:2066 (IS-1900, Paper 7)
control system of fast pulsed SORA, response requirements for, (E/T), 24:20609
control system of FMRB, instrumentation and circuiting for, 24:20600 (FMRB-1/70)
control system of SORA, use of mean value kinetic equations for calculation of characteristics of, (T), 24:16239 (EUR-4408)
control system of TRIGA, development of Rade Koncar automatic, 23:43152
control system of TRIGA, effects of strong absorber insertion and removal on, 23:52419
control systems for ECO, description of, 22:48742
control systems for RTM, 21:19472 (RT/ING-(66)17)
control systems for Saclay and Cadarache, electronic, high temperature, and high neutron flux characteristics of, 24:18698 (CEA-CONF-1454)
control systems of, automation of, 24:16251
conversion ratio in heavy water moderated gas cooled natural uranium fueled PROTEUS, measurement of relative, (E/T), 24:13598 (EIR-165)
converter tube for Advanced Reactivity Measurement Facility, calculated real and adjoint neutron flux spectra for uranium oxide (UO_2), 23:24426 (IN-1218, pp 181-316)

coolant boiling in WWR-S, effects of pulsations in thermal neutron flux, channel wall temperature, and water level on, (E), 23:28555 (IFA-TR-56)
coolant circuit of VVR-M, electrophoretic filter design for, 21:10207
coolant circulation loss in Merlin, behavior model of, 21:14078 (JUL-407-RE)
coolant cover gas cavities of BR-5, leakage of neon-2.3 into, 23:43151
coolant flow in KUR, flowmeters for measurement of in-core, 24:38600 (KURRI-TR-72)
coolant for BR-5, design of system for monitoring fission product contamination of liquid sodium, 23:52410(T) (JPRS-48330, pp 553-90)
coolant for CIRUS, system for analysis of dissolved gases in water, 23:24481 (BARC-361)
coolant for EWA, iodine-131 content in vessel air and, (E), 25:44155 (INR-1295)
coolant for JRR-2, decomposition rate of heavy water, 25:28758 (JAERI-1204)
coolant for VVR-S Bucharest, quantitative determination of manganese-54 in, (E), 25:23358
coolant for WWR-S Bucharest, chromium, iron, and nickel in, (E), 24:9143 (IFA-FR-75)
coolant for WWR-S Bucharest, hydrogen peroxide and oxygen in, (E), 24:9144 (IFA-FR-76)
coolant level control system for swimming-pool, design of servo-operated displacement float, 22:14282(P)
coolant level in, use of optical encoder with precision machined drum for measuring heavy-water, 21:43313
coolant loop efficiency of VVR-2, using carbon dioxide, 21:35762
coolant loss accidents in BOR, description of emergency systems for, 23:25979(T) (ANL-Trans-744)
coolant of KUR, analysis for hydrogen peroxide and radionuclides of water, 23:49595
coolant pump power failure in plate type, calculation of flow inversion transient from, 23:47245 (CNM-R-2(Vol.2), pp 709-25)
coolant purification for water cooled, effects of bypass-cycle treatment on optimum economic, 24:29007
coolant purification in IRT type, anomalous performance of ion exchange resins for, (T), 25:46305
coolant system of WWR-S, iodine-131 content in, 21:26523
coolant thermal inertia during power transients in UA-RR-1, (E), 25:37084 (UARAEE-111)
coolant throughput for FRJ-1, measurement of, 23:11286 (JUL-546-RE)
coolant water circuits of WWR-S Budapest, identification of radioresistant microorganisms in, 22:48748
coolant water of IRR-1, radioisotopes in, 21:30253 (IA-1077)
coolant water of IRT-1000 (Sofia), content of irradiation-produced fluorine-18 in, (E/T), 22:53424
coolant-flow instabilities in University of Virginia, effects of boiling on, 22:51174
coolant-loss flow experiments in Cabri, description of, 23:9201 (TID-24857)
coolants of Studsvik R2, large area proportional detectors for beta activity measurements in, 22:37970 (AE-319)
cooling channels in ESSOR, impact stress testing of SAP, 24:43825
cooling channels of high-flux, calorimetric systems for energy release determination in, 23:47270 (SRARI-P-19)
cooling system efficiency in, review of, 22:35619
cooling system filters for EWA-10, design parameters and performance of, 25:60157 (INR-1316)
cooling system for 300 kW(t) operation of Scottish Universities, required alterations in, 23:21521 (SRRC-28/68(Pt.2))
cooling system for Illinois advanced TRIGA, thermal analysis of forced, 22:33017
cooling system for MOSEL, design concepts, 21:23644
cooling system for Rossendorf WWR-S, decontamination of, 23:19536
cooling system for Texas A and M, design and cost estimates of, 24:2024 (DOCKET-50128-12)
cooling system for TR—O Czechoslovakia, analogue solution of, 21:44948 (UJV-1845)
cooling system for Triga Mark III, economics of increasing capacity of, 21:35721 (NP-16736)
cooling system for uranium carbide (UC) fueled BR-5 (U.S.S.R.), isotopic composition of fission products in primary, 23:43149
cooling system for WWR-M, effects of power level on radiolytic hydrogen concentration in, 22:35609
cooling system for, description of core-enclosing gas chamber with water forced circulation, 22:48738(P)
cooling system of BOR, analysis of accident shutdown safety for, 22:20903
cooling system of BOR, safety evaluation of, 22:53359
cooling system of CIRUS, radioactivity levels in, (E), 24:13615 (BARC-437)
cooling system of Japanese Kinki University, corrosion inhibition methods for, 23:16469
cooling system of Pakistan Research Reactor, detection and measurement of radionuclides in, 24:11276
cooling system of RFT, description of improved mixed-layer ion exchangers for, 22:20826 (ZFK-RN-31, pp 69-76)
cooling system of Texas A and M, hot channel factors, burnout factor, and burnout ratio for, (T), 24:2019 (DOCKET-50128-6)
cooling system of UFTR, corrosion of piping in, 24:33422
cooling system of UTR-100, analysis of, (T), 22:25099 (SRRC-24/68)
cooling system of VVR-M, decontamination procedure for, 22:20917(T) (JPRS-44332)
cooling system of VVR-S, description of 5MW(t) capacity, 22:22849
cooling system of VVR-S, microorganism detection in, 21:8053
cooling system of WWR-M, efficiency of electrophoresis filter for, 22:20915 (ZFK-RN-31, pp 110-21)
cooling system of WWR-S, fission product analysis of water in, 22:30306 (IFA-FR-59)
cooling system of, description of mobile ion exchangers for, 22:20912 (ZFK-RN-31, pp 28-44)
cooling systems for High-Flux Research Reactor, 21:17523 (NP-16455)
cooling systems for Pulstar, comparison of forced- and natural-convection, 21:8094
cooling systems for, pressure drop in subcooled boiling in rectangular channels of, (T), 25:48314 (NP-18904)
cooling water activities in VVR-S, qualitative analysis of, 21:8052
cooling water for IRT-1000, Sofia, gamma spectrometric methods for radioisotope control in, 22:18572
cooling water for WWR-S, determination of metal ions in, 22:12258
cooling water of VVR-S, determination of cobalt-60 in, 25:20941
cooling water of VVR-S, separation of fission products from, 22:6132
core and support rods for swimming-pool, description of bridge-suspended float-elevated movable, 22:39888(P)
core design for FR-3, 25:41364(T) (EURFNR-849)
core design for high-pulse TRIGA, description of annular, 22:33020
core design of FR-3, 25:60010(T) (EURFNR-902)
core for Apsara, description of, 22:42361 (NP-17538)
core for Argonaut type, coupling coefficient and delay time for two zone, (T), 24:4094
core for ATRC, description of concept of, 23:9202
core for Cabri, testing of Osiris-type, 24:16237 (CEA-N-1205)
core for EVA, properties of PAR-1 alloy used in construction of, 22:7895 (INR-779/XIV/PS)
core for FR-2, loading diagrams for, 22:22820(R) (KFK-688)
core for IAN-R1, neutron flux and reactivity measurements in, 22:32971 (IAN-R-1-2)
core for Iowa State UTR-10, cross-spectral density method for obtaining reactivity coupling coefficient of coupled, 21:40684
core for MERLIN, heat transfer and fluid flow requirements of 10 MW, 25:26030 (JUL-693-RE)
core for RA (Vinca), statistical analysis of thermal limits for, (T), 25:31638
core for RITMO, design parameters, neutron flux distributions, and spectral indices for, 23:26096
core for Siloe, neutron flux maps of, 24:9140 (CEA-CONF-1320)
core for STARK, description of second, 22:16296(T) (EURFNR-352)
core for TAPIRO, critical mass for, 22:50829
core for Texas A and M, critical testing of 8-B, 24:2029 (DOCKET-50128-17)
core for Texas A and M, critical testing of No. 7, 24:2020 (DOCKET-50128-7)
core for UAR-I, measurement of thermal neutron flux distribution in, 22:25100
core for University of Missouri, erroneous flux indications caused by flooding of instrumentation in, 23:43166
core for, neutron energy distributions and flux profiles in, 23:21529
core for, physics measurements for enriched fuel test cells of, 24:50194
core for, use of oscillator for determining epithermal neutron absorption in, 24:18719 (NP-18138)
core lifetime in UA-RR-1, effects of non-uniform fuel burnup on, (T), 25:37081 (UARAEE-83)
core loadings 3 and 4 for STARK, fast—fission zone reactivity and power fraction of, (E/T), 22:22829(T) (EURFNR-424)
core loadings for fast-thermal, description of third and fourth, 22:16287 (KFK-668)
core materials for HFR, effects of radiation energy distributions on heat generation in, (E/T), 24:41040 (EUR-4415)
core materials for, review of absorbed dose determination in, 25:60160 (STI/DOC-10/127)
core matrix neutron absorption in ANNA, measurement using uranium-238 oxide, 21:19466 (INR-748/IXA/PR)
core modifications for MOATA, description of SGHWR and CANDU type reactor simulation, 23:40384 (AAEC/TM-499)
core of FRAN, relative power density map and flux profiles of, 23:41131(R) (IDO-17299)
core of HFR (Grenoble), mockup testing for hydrodynamic vibrations in, (E), 25:3909
core of pulsed swimming pool type, description of uranium oxide (UO$_2$) fueled, 23:49589(P)
core of Texas A and M, source of photoneutrons following shutdown in, (E), 24:2027 (DOCKET-50128-15)
core parameters for Annular Core Pulse, measurement of, 22:33008
core physics calculations for, comparisons of solutions to transport theory equations for, 22:1861(R) (TID-24098)
core structure for repetitively pulsed, with rotating neutron-active sections, 23:28568(P)
core support tower for Battelle Research Reactor, design of cantilevered grid, 21:35742
core thermal calculations of the High-Flux Research Reactor, 21:17523 (NP-16455)
core vessel for FR-2, repair of leaks in, 25:26040
core vessel for JRR-2, mockup tests for welding repair of, 25:23352
core-evolved gases in BER, catalyst for recombination of, 21:30269
cores for fast pulsed, calculation of dynamic stresses in elements of, (T), 22:20918
cores for UTR-10, cross-spectral density technique for reactivity determination in coupled-, 22:14271
cores for, analysis of zoned, 21:19426
cores for, numerical description of plutonium-240, 21:35702 (BNWL-CC-1205)
cores in Low Flux, coupling coefficient determination by cross-correlation function, 23:11297 (RCN-98, pp 339-58)
corrosion of aluminum in Herald, 22:28743
coupling between regions in two-slab and annular cores in Jason (LFR), (E/T), 23:52464 (RCN-110)
critical characteristics of JRR-4, accuracy of calculation methods for, (E/T), 22:18560(T) (WAPD-Trans-85)
critical experiments in TRIGA-type pulsed, comparison of measured and calculated data from, 21:38721
critical mass determinations for fast CORAL-I, 23:21529
critical mass measurements in FRJ-1, 23:11286 (JUL-546-RE)
critical mass measurements in, use of integral experiments for, 21:35549 (ANL-7320, pp 270-5)
critical mass of UA-RR-1, method for calculation of, 25:37078 (UARAEE-67)
critical measurements on uranium fuel element clusters in ECO, comparison of exponential measurements with, 25:44154 (EUR-4362)
critical parameters of various core configurations and compositions in, (E/T), 22:50813
criticality determinations for STARK, 22:16296(T) (EURFNR-352)
criticality experiments with Aberdeen Pulse Reactor, at low power and with superprompt criticality, 21:46643(R) (ORNL-4134)
criticality measurement on SORA mockup with beryllium and iron reflectors, 22:35605 (ORNL-4263)
criticality measurements for enriched uranium fluoride (UF$_4$) fueled beryllium moderated graphite reflected, 22:14267
criticality measurements in, bibliography of data from, 22:22799 (AHSB(S)Handbook-5(Pt.1))
criticality measurements on cavity-type, 21:8063
criticality of high-leakage thermal, core and reflector temperature parametric effects on, (E/T), 22:5745
criticality of Minerve, review of experiments for, (E), 24:22458
criticality studies for SORA mockup, effects of reflector material and core and reflector configurations on, 23:11303
criticality studies on SORA, summary of, 23:11181 (RCN-98, pp 1-15)
data acquisition and processing system for FR-2, description of MESPRO 64 computer program for MIDAS, 23:28563(T) (ORNL-tr-1131)
data acquisition and processing system for FR-2, performance of MIDAS computer, 25:8117 (NP-18562)
data acquisition and processing system for VIPER, description of on-line digital computer, 23:23978
data acquisition system for Missouri University Research Reactor, description of analog and digital computer, 25:41549
data acquisition systems for neutron experiments at HERALD, design of PDP-8 computer-based, 23:29270
data on world-wide shield-testing, 23:6022 (ORNL-RSIC-24)
decontamination from americium-241 and curium-242 following accident at BR-2, 25:37784 (EUR-4612, pp 595-629)
description and uses of German—French high-flux, 21:44502 (CONF-660925, pp 119-55)
description and uses of Savannah River high-flux, 21:44502 (CONF-660925, pp 119-55)
description and uses of United Kingdom high-flux beam, 21:44502 (CONF-660925, pp 119-55)
description in U.S.S.R. of, 23:17257
description of 1 MW(t) JRR-4, 22:1858 (JAERI-1141)
description of 5 MW(t) PARR, 22:6098 (PINSTECH/RO-1)
description of 60 MW fast BOR, 22:18520
description of British, 21:21738
description of copper reflected, fast source, for low level irradiation experiments, 22:12134
description of Dutch and U. S., for use in physics parameter measurements, 22:25106
description of Dutch HFR, 21:8051
description of ECO, 22:18563
description of ECO, 23:26079 (EUR-3940-1, pp 27-52)
description of FRAN Prompt Burst Machine, 22:22817 (IDO-17231)
description of Franco-German high-flux, for neutron beam-tube experiments, 21:44505 (CONF-660925, pp 281-310)
description of French CABRI, 21:27814
description of German Physical-Technical Federal Institute, 22:35610
description of German-French High-Flux Reactor Institute, 21:5739
description of graphite- and water-moderated enriched uranium fueled LFR, 22:25112
description of HFR, 22:22811 (EUR-3650)
description of high flux pulsed and steady-state, 22:16302
description of high-flux, 21:32018
description of high-flux, for fast and thermal neutron experiments, 21:44504 (CONF-660925, pp 261-79)
description of Indian Apsara and CIR, 22:3910
description of ISPRA-1, 23:26079 (EUR-3940-1, pp 27-52)
description of JAERI fast breeder, 21:25728
description of liquid excursion pulsed, 22:6134(P)
description of liquid mtal-cooled floating fused salt-fueled fast burst, 22:25117(P)
description of liquid-jet-fueled super high neutron flux, conceptual, 22:25091 (LA-DC-9413)
description of Polish R-2, 22:35617
description of proposed modified-TRIGA, at Virginia Polytechnic Inst. and State Univ, 25:51156 (CONF-710402-(Vol.2), pp I.18-21)
description of remodeled FRJ-1, 23:11286 (JUL-546-RE)
description of RTS-1 Galileo, 22:50825
description of SORA, 23:26080 (EUR-3940-1, pp 53-81)

description of Soviet BR-5, 22:39806
description of Spanish CORAL-I fast, 23:21525
description of SUR 100, 22:30335
description of TRIGA, for neutron applications, (E), 25:50593 (CONF-710402-(Vol.2), pp I.1-9)
description of TRIGA-type, for pulsed neutron experiments, 21:44508 (CONF-660925, pp 413-24)
description of U. S. facilities, 22:14142 (TID-8200(17th Rev.))
description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
description of underground, for bitumen irradiation, 22:18578(P)
description of VIPER, 22:35643
description of VIPER pulsed, 22:6106
description of water-moderated enriched uranium fueled HFR, 22:25114
description of water-moderated enriched uranium fueled BARN, 22:25110
description of, for high-flux neutron sources, 21:33861
descriptions of U. S., tables, 21:38467 (TID-8200(16th Rev.))
design and construction of Italian TAPIRO fast, use of PERT for administration of, 23:28565
design and operation of Juelich pulse, 21:5689 (JUL-343-RE)
design and performance of accelerator-boosted fast-pulsed, (E/T), 21:8056
design and performance of ALRR combined cryostat—flux converter system, 23:7401 (IS-1917)
design and performance of German experimental, 21:30187
design characteristics for 30 MW repetitively pulsed fast, conceptual, 23:21510 (BNL-13208)
design characteristics of Kazakhstan VVR-K, 23:31191(T) (AD-684695)
design concept for accelerator pulsed, 24:11240 (CONF-690102-, pp 237-61)
design concept for high neutron flux, with low uranium-235 critical mass, 23:28605
design concept for pulsed molten salt, 24:11248 (CONF-690102-, pp 387-402)
design concepts for rotating fluidized-bed-core, (T), 21:23710 (BNL-994, pp 45-69)
design criteria for uranyl sulfate fluid-fueled fast burst disposable core, conceptual, 23:26089 (LA-DC-10055)
design description of light water-cooled and -moderated, graphite reflected ATHENE, 21:42828
design features of Apsara, 23:15677 (NP-17764)
design features of SORA, review of, 24:11241 (CONF-690102-, pp 265-85)
design features of VIPER, review of, 24:11236 (CONF-690102-, pp 125-37)
design modifications for 1.5 MW(t) operation in University of Illinois TRIGA, 24:20613
design modifications for FR-3, during 1968 and 1969, 25:31568(T) (EURFNR-823)
design modifications for Scottish Universities Reactor, during 1969 to 1970, 25:31634(R) (SRRC-41/71)
design of accelerator-booster pulsed fast, 21:30252 (GA-7381)
design of Annular Core Pulse Reactor, 21:27806 (SC-RR-66-2609 and Suppl.)
design of BNL Advanced Pulsed Reactor, review of problems in, 23:47258 (CNM-R-2(Vol.3), pp 1534-47)
design of conceptual Nuclear Safety Research Reactor (NSRR), 25:44162
design of Coupled Fast Reactivity Measurement Facility, qualitative description of, 23:24426 (IN-1218, pp 181-316)
design of fast pulsed, 21:35701(R) (BNL-50023)
design of fast pulsed, university contributions to, 24:11262 (CONF-690102-, pp 625-8)
design of Franco-German high flux, 23:11305
design of Franco-German High Flux, summary of, 25:54185 (A/CONF.49/P-594)
design of irradiation facility of Karlsruhe FR-2, 21:30283 (BMwF-FBK-67-22)
design of JRR-2, 23:14377
design of Juelich, calculations for optimizing thermal, 25:10768 (JUL-657-MA)
design of Kinetic Intense Neutron Generator concept, with aqueous liquid fuel core, 25:46303 (LA-4723)
design of NUPOP, 21:42767
design of pulsed, 24:44184 (BNL-50205, pp 134-67)
design of pulsed, 22:37900 (BNL-50082, pp 153-80)
design of pulsed, 23:40913 (BNL-50149, pp 123-52)
design of pulsed or modulated, with movable external control means, 21:19491(P)
design of RA, 21:19490
design of Repetitively Pulsed Test Facility, use of combined 3-10 MW sodium cooled plutonium fueled reactor and charged particle neutron source for conceptual, 23:24426 (IN-1218, pp 181-316)
design of RITMO, 23:26096
design of SORA, for cold and thermal neutron experiments using time-of-flight method, 21:44507 (CONF-660925, pp 373-411)
design of Soviet IR-100, 21:21778
design of SPR II, 21:27807 (SC-RR-66-2706)
design of Triga Mark F, 21:42810 (AD-645546)
design of U.S.S.R. IBR-2, 25:54189 (A/CONF.49/P-774)
design of University of Missouri, contractor qualifications for, 23:23968 (DOCKET-50186-4)
design of University of Missouri, safety analysis of, 23:23967 (DOCKET-50186-3)
design of University of Missouri, safety analysis of, 23:26071 (DOCKET-50186-1)
design of, for pulsed and steady state operation, 21:32027(P)
design optimization for, 21:34162
design parameters and standards for ECO, 22:48742
design parameters for FR-3 fast high flux, 24:38609
design parameters for Franco—German High Flux Reactor, 25:39308(T) (LIB/Trans-352)
design parameters for Franco—German, at Max von Laue—Paul Langevin Institute, 23:33090
design parameters for HFR (Grenoble), 25:26045
design parameters for Hungarian WWR-type, summary of, 22:42376
design parameters for MIR, SM2 (U.S.S.R.), and PLUTO type heavy water cooled and moderated high flux, bibliography on, 23:33086 (KFK-719)
design parameters for TAPIRO, tabulation of, 22:50829
design parameters for U.S.S.R., tabular collection of, 23:26095
design parameters for, use of analog computer simulator for teaching, 23:26126 (AAEC/TM-498)
design parameters in 2 kW(t) fast, Japan of, 25:54192 (A/CONF.49/P-820)
design parameters in U.K. of proposed heavy water cooled high flux, 25:3911
design parameters in U.S.S.R. of water moderated heterogeneous IRT type, 23:33089
design parameters of Celestin, 25:39318
design parameters of CORAL-1, 25:26043
design parameters of EWA-10, 25:57116 (INR-1303)
design parameters of fast pulsed, in U.S.S.R, 24:11239 (CONF-690102-, pp 173-95)
design parameters of FR-3, 25:28632(T) (EURFNR-824)
design parameters of HFR, 24:13595 (CONF-671224)
design parameters of high flux fast facility FR-3, technical and economic, 25:51171 (KFK-1356)
design parameters of IRT-M, modified, 25:39296(T) (LB/G-3008)
design parameters of KFKI, 24:43820
design parameters of L-88, for neutron radiography, 25:57128
design parameters of Mexico TRIGA Mark 3, 25:34412
design parameters of modified IRT-M, 25:39297(T) (LB/G-3009)
design parameters of Rossendorf WWR—S type, effects of 2MW(t) to 10 MW(t) power increase on, 24:13609
design parameters of SLOWPOKE, 24:50188
design parameters of Tokyo University Fast Neutron Sources, 23:43158
design parameters of University of Missouri Research Reactor, 25:10273
design parameters of uranium oxide (UO_2) fueled PULSTAR, review of, 23:47239 (CNM-R-2(Vol.1), pp 408-49)
design parameters of world-wide fast, comparison of, 23:43158
design program for FR-3, review of, 25:51028(T) (EURFNR-867)
design proposal for Repetitively Pulsed Test Facility, 22:16284 (IN-1149)
development in Africa of, 24:45859
development in Africa of, design modifications and revised applications for, 24:46094
development in Australia, 1968-1969, 24:4187(R) (NP-18051)
development in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
development in China, review of, 24:13639
development in Euratom countries of, survey of, 23:19475
development in Japan during April 1969 to March 1970, description of, 24:1974
development in Japan of, review of, 24:1973
development in small countries of, program requirements for, 24:46093
development of fast pulsed, conference on, 24:11230 (CONF-690102)
development of fast pulsed, history of, 24:11233 (CONF-690102-, pp 81-93)
development of Franco-German High Flux, summary of, 25:54185 (A/CONF.49/P-594)
development of Greece, description of, 23:6032
development of high flux thermal neutron, 25:18188
development of high flux, review of trends in, 23:28566
development of high-flux, for neutron sources, limitations to, 21:44506 (CONF-660925, pp 319-70)
development of IBR (U.S.S.R.), 25:28760(T) (JPRS-52907)
development of IBR pulsed fast, 25:44156 (JINR-P3-5754)
development of PTB, 21:14098
development of pulse, 25:6120
development of repetitively pulsed fast, review of U.S.S.R, 23:28574
development of SORA, 25:60178
development of SORA, review of, 21:5697
development of STARK, 21:25731
development of, description of Japanese facilities for, 25:15823
development of, problems of, 23:49543 (ORNL-4295)
development of, progress review on, 24:31039
development program for ESSOR in France and Germany, description of combined, 23:43162
development through Norse—Netherlands cooperation, review of, 23:31203
Doppler effect in uranium-238 in uranium oxide (UO_2) blanket of Russian BR-1, (E/T), 22:35640
dose-equivalent rates for Hungary WWR-SM, measurement of thermal, intermediate, and fast neutron and γ, 23:21523
dosimetry methods used in RA and RB, description of in-pile, 22:12110
dynamics measurements in JRR-3, use of pseudo random binary signals for high power, (E/T), 24:47902 (CONF-680980-, pp 267-74)
dynamics of fast pulsed SORA, calculation of, (E/T), 24:20609
dynamics of pulsed fast SORA, stress wave production in, 22:12093 (EUR-3654)
dynamics of SORA, use of mean value kinetic equations for calculation of, (T), 24:16239 (EUR-4408)
dynamics of TRIGA Mark II, effects of temperature feedback on, (E/T), 25:60164
dynamics of, hybrid computer simulation of, (E/T), 23:49552
economic parameters for use in physical research, evaluation of, 23:4320
economics for HFR, 22:22811 (EUR-3650)
effluent air release from CIRUS, tritium content of, (E), 21:1214
effluent control at University of Missouri, analysis of argon 41, 23:23967 (DOCKET-50186-3)
effluent from stack of IRT-1000, concentration of argon-41 in, (E), 22:44911
effluent monitoring for ORNL, development of, 21:31920 (CONF-660904-Vol.1 and 2, pp 586-611)
effluents from Cirus, evaluation of environmental monitoring methods for gaseous, 24:31979 (BARC-426)
effluents from, research on environmental effects of, 24:46594
electric circuits in FMRB, schematic diagrams of, 25:28771
energy absorption of materials in experimental loops of TRIGA-II, adiabatic calorimeter for measuring, 21:22216
environmental monitoring at University of Virginia, 22:25080 (DOCKET-50062-2)
environs monitoring of WWR-S, for iodine-131, 21:26523
equipment for CABRI PUISSANCE, description of special, 21:27814
excursions in Hitachi Training Reactor, characteristics of self-limiting power, (E), 24:5551
excursions in HTR, analysis of pulse operation self-limiting power, (E/T), 23:13547
excursions in pulsed, measurement of delayed neutron effects on self-limiting, 23:37638
exhaust system for CIRUS, analysis of release rate for tritium from, 21:46955
experimental capabilities of EWA-10, 25:57116 (INR-1303)
experimental channel of WWR-C-Prague, neutron spectra from horizontal, (E), 25:57125
experimental channels in IR-100, neutron fluxes and γ doses in, (E), 25:18194
experimental cryogenic facility for producing intense low-energy neutron beams, 22:47037
experimental facilities at FiR 1 Triga Mark II, description of cold-neutron, 21:7644
experimental facilities at TRIGA, design and performance of double-reflection neutron monochromator, 22:16940
experimental facilities at University of Virginia, for shielding measurements in basic geometries, 23:12945 (AERE-R-5773(Vol.1), pp 319-35)
experimental facilities at WWR-S, operation of neutron diffractometer, 22:28206 (IFA-FN-33)
experimental facilities for 5 MW(t) Army Materials, design parameters of, 24:9141 (DOCKET-50047-2)
experimental facilities for activity measurements on irradiated foils, description of, 21:42642
experimental facilities for chemical research in, review of, 22:12123
experimental facilities for CORAL-1, description of reactivity coefficient measurement in, 25:51194
experimental facilities for DIDO, leakage of thermal neutrons through beryllium filters in, 23:23610
experimental facilities for DORF pulsed, shielding of gamma spectrometer, 25:18732 (AD-711531)
experimental facilities for FiR-1, measurement of neutron rethermalization near terphenyl-water discontinuity in, 23:28628
experimental facilities for fission-fragment research using gas-filled drift tube with conical electrodes, 21:27575 (UCRL-13260)
experimental facilities for FR-2, description of cryogenic, 22:12122
experimental facilities for FR-2, design parameters of superheated steam in-pile loop for fuel element failure testing, 25:12820 (KFK-1255)
experimental facilities for FR-2, design parameters of superheated steam in-pile loop, 25:48311 (KFK-1308)
experimental facilities for FR2, description of helium-cooled cold neutron source in R3 horizontal hole, 23:7402 (KFK-818)
experimental facilities for FRG, design parameters of target can for use to 200 to 1000°C in, 23:52421
experimental facilities for FRG, design parameters of beam tube target can for, 23:52420
experimental facilities for FRG-1 and FRG-2, description of 320°C and 115 atm corrosion tests autoclave, 23:4381
experimental facilities for HERALD, description of PDP-8 digital computer data storage and control system for, 23:23979
experimental facilities for HFR (Nederland), design parameters and operations of pressurized water in-pile loop, 25:57121 (RCN-145)
experimental facilities for high-flux, design of, 21:44518 (CONF-660925, pp 701-30)
experimental facilities for IRT-1000, description of sample irradiation in cryogenic, 23:37660
experimental facilities for ISPRA-1, 23:26081 (EUR-3940-1, pp 85-128)
experimental facilities for RC-1, methods for prevention of argon-41 production during operation of, 23:26097
experimental facilities for SORA fast pulse, description of, 22:39874(T) (ANL-Trans-616)
experimental facilities for SORA, description of optimum collimated neutron beam, (E/T), 23:13541 (EUR-4082)
experimental facilities for swimming-pool, description of, 22:3914
experimental facilities for thermal-neutron elastic scattering, 21:6096 (AERE-R-5259(Pt.1))
experimental facilities for thermal-neutron inelastic scattering, 21:6097 (AERE-R-5259(Pt.2))

experimental facilities for Triga Mark II, design of total-reflecting conical thermal neutron collimator, 22:30324
experimental facilities for TRIGA, construction of tangential through channel, 22:3900 (RT/ING-(67)10)
experimental facilities for USSR, description of equipment for, 22:12129
experimental facilities for VVR-K, 23:19533
experimental facilities for WWR type, performance of semiautomatic pneumatic shuttle system for, 25:60168
experimental facilities for WWR, description of materials irradiation testing, 25:28765
experimental facilities for WWR-CM, design of liquid helium cryogenic, 24:29058
experimental facilities for, description of 180° rotation, 22:1876(P)
experimental facilities for, description of horizontal liquid-cooled hydraulic rabbit, 22:53435(P)
experimental facilities for, description of liquid-drive vane-rotated cylinder-shaped sample holder, 22:53439(P)
experimental facilities for, description of shield-penetrating multiple-sample pneumatic rabbit, 22:53436(P)
experimental facilities for, description of three-sectioned axial groove-and-ridge-guided plug for horizontal hole, 23:11304(P)
experimental facilities for, design of thermal neutron radiography, 23:19918(P)
experimental facilities for, design parameters for 1 rpm rotating sample holder, 23:43163
experimental facilities for, design parameters of automatic core material transfer, 24:47900 (CEA-N-1265)
experimental facilities for, effects on fast and thermal neutron spectra of reentrant hole, (E/T), 24:11277
experimental facilities in Czechoslovakia, design parameters for carbon dioxide in-pile loop, 23:26094
experimental facilities in FR-2, design of helium high pressure irradiation, 25:18192
experimental facilities in France for, design and performance of, 24:47899 (CEA-CONF-1570)
experimental facilities in GRR-1, design modifications and testing programs for, 25:28774
experimental facilities in U.K, 24:26813
experimental facilities in U.S.S.R. MP Materials Testing Multiloop, description of, 25:54187 (A/CONF.49/P-720)
experimental facilities in, conference on use of, 22:12107
experimental facilities in, use of beam hole, 22:12125
experimental facilities of BARN, design parameters for, 23:33092
experimental facilities of BR-5 Reactor (USSR), description of epithermal neutron converter in, 22:18565
experimental facilities of HFR (Grenoble), for study of protein structure with neutron diffraction, 25:3907 (NP-18462)
experimental facilities of IBR, description of double-TOF, 23:11273 (BNL-13076)
experimental facilities of IRT Sofia, temperature of bismuth filter in beam hole, 24:18740
experimental facilities of IRT-2000, neutron energy distribution in, (E), 23:49593
experimental facilities of KUR, neutron flux and spectra in, (E), 23:49596
experimental facilities of MIR, 24:43821
experimental facilities of MIR and SM-2, fuel element testing in, 25:48318
experimental facilities of MIR, methods for power distribution control in, 25:39302(T) (LB/G-3015)
experimental facilities of modified IRT-M, design parameters of, 25:39297(T) (LB/G-3009)
experimental facilities of Pakistan, neutron flux enhancement in beam hole, 21:40691
experimental facilities of RA, dosimetric calibration of VK-3 and VK-7, 24:24887
experimental facilities of RDT Reactor, design modifications for, 25:37067(T) (LB/G-3001)
experimental facilities of RPT Reactor, design parameters of, 25:39290(T) (LB/G-3002)
experimental facilities of RPT Reactor, design parameters of, 25:39292(T) (LB/G-3004)
experimental facilities of RPT Reactor, design parameters and performance of water cooled fuel element, 25:39293(T) (LB/G-3005)
experimental facilities of RPT Reactor, design parameters and operations aspects of, 25:39291(T) (LB/G-3003)
experimental facilities of RPT Reactor, fast and thermal neutron flux distributions in, 25:39298(T) (LB/G-3010)
experimental facilities of RPT Reactor, method for measurement of fast neutron flux for, 25:39295(T) (LB/G-3007)
experimental facilities of RPT Reactor, performance of water cooled fuel element cladding, 25:39294(T) (LB/G-3006)
experimental facilities of Russian SM-2, 24:43821
experimental facilities of SM-2 Reactor (Russia), calorimetric system for measurement of nuclear heating in, 25:39304(T) (LB/G-3017)
experimental facilities of SM-2 Reactor (Russia), design parameters of temperature control system for, 25:39307(T) (LB/G-3025)
experimental facilities of SM-2 Reactor (Russia), design parameters of helium insulated, 25:39300(T) (LB/G-3013)
experimental facilities of SM-2 Reactor (Russia), nuclear heating in, (E), 25:39303(T) (LB/G-3016)
experimental facilities of SM-2 Reactor (Russia), calculation methods for optimum utilization of, 25:39299(T) (LB/G-3011)
experimental facilities of Soviet SM-2, fast neutron flux in, (E), 24:13606
experimental facilities of Triga Mark 2, performance of moderators for cold neutron source in tangential beam hole, 25:3904 (IJS-571)
experimental facilities of VVR-SZ, description of, 22:12119
experimental facilities of WWR-M, measurement of integrated fast and thermal neutron fluxes in, 25:39306(T) (LB/G-3023)
experimental facilities of, calculation methods for optimum utilization of, 25:39299(T) (LB/G-3011)
experimental facilities of, remote control loading device for, 24:38612(P)
experimental facilities operation in, safety procedures for, 22:12135
experimental facilities sample container for, description of gas-insulated and electric-heated, 22:47033(P)
experimental facility for DR2, computer based instrumentation system for, 24:11275
experimental facility for FRG-I, neutron time-of-flight spectrometer, 24:23014
experimental facility for high temperature fission gas release measurements in HTR, 24:47983
experimental facility for IBR-1, design of DIN-1 double thermal neutron spectrometer, 23:22056 (FEI-129)
experimental facility for IEAR-1, for producing monoenergetic gamma rays by neutron capture, 22:25085 (IEA-133)
experimental facility in FRG-1, device for sample irradiation with adjustable neutron fluence in, 24:31107
experimental facility in RB-1, description of heavy water, 23:26079 (EUR-3940-1, pp 27-52)
experimental facility of KUR, neutron flux in heavy water, (E/T), 23:47275
experimental hole cooling system design for, 22:10070(P)
experimental irradiation facilities at KUR, design parameters of thermal neutron, 24:29051 (KURRI-TR-64)
experimental irradiation facilities for IRT, gallium—indium—tin alloy activation in, 23:49594
experimental irradiation facilities for, digital computer for operation and control of, 24:18727
experimental programs for Casaccia, uses of PERT-system in, 24:9152 (RT/GEN-(69)1(Vol.2))
experimental programs in HOR, during 1968 to 1969, 24:20605(R) (NP-18092)
experiments being conducted at Scottish, summary of, 21:27803(R) (NP-16727)
fabrication of modified IRT-M, 25:39296(T) (LB/G-3008)
fabrication of SORA mockup, description of, 22:35605 (ORNL-4263)
facilities for irradiation in, design and performance of Ispra-1, 21:17526 (RT/ING-(66)15)
failure data on liquid metal cooled, handbook of, 24:22428 (LMEC-Memo-69-7(Vol.1))
failure data on liquid metal cooled, handbook of, 24:22429 (LMEC-Memo-69-7(Vol.2))
feasibility of high flux, engineering problems and economic aspects of, 21:40676 (KFK-579)
filters for 10 MW WWR-S, description of ion exchanger, 22:20914 (ZFK-RN-31, pp 55-68)
fission fragment yield and nuclidic mass in pulsed, design of on-line separator for determining short-lived, 23:29283
fission gas recoil release from urania pellets in Hitachi Training Reactor, 21:44950
fission product buildup in Portuguese RPI, measurement of xenon and samarium, 22:37533 (LFEN-NI-34-a)
fission product release in BR-5, analysis of fuel element failure, 23:19510 (AI-AEC-Memo-12790)
fission products in shutdown environment of L54M, analysis of iodine-131, 22:25102
fission rate in JRR-4, radiochemical analysis of molybdenum-99 formation in uranium samples for, 24:4096
fission ratio for uranium carbide (UC)-fueled heavy water-moderated ECO, measurement of fast, (E/T), 22:37551
fission ratio measurements in RB-1, use of depleted uranium foils for fast, 22:27473
fission ratio measurements in uranium-238/uranium-235 foils in heavy water moderated, 22:33006
fission-product monitor system for pool-type, design and performance of, 22:30826
flowmeter performance in WWR-S, analysis of, 22:35676
fluorine-18 production in, by lithium-6 (n,α) and oxygen-16 (t,n) reactions, (E), 21:27527
flux and fission rate measurements in fast-thermal STARK, neutron, 22:16287 (KFK-668)
flux measurements at Kyoto University, using rhodium-103 inelastic scattering cross section, 23:52151
frequency response measurements of JRR-3, use of pseudo random binary signals for, 22:20927
fuel assemblies for ATRC, description of concept of, 23:9202
fuel assemblies for ZED-2, effects of configuration and coolant on neutron flux peaking in 18-element uranium oxide (UO_2) CANDU-BLW rod-type, 22:44883 (AECL-3143)
fuel assemblies in UFTR, bowing of plate type, 24:33422
fuel assemblies of EWA-2 and EWA-4, effects of coolant loss and ramp reactivity on temperature transients in, 24:4090 (INR-1090)
fuel assembly for JRR-3, design calculations for test, 25:51159 (JAERI-13606)
fuel burnup calculations for UA-RR-1, 25:37077 (UARAEE-63)
fuel burnup in BR-5, analysis of plutonium oxide (PuO_2), 22:27470(T) (JPRS-45100)
fuel burnup in RS-1, analysis of uranium, (E/T), 22:44887 (EURAEC-2003)
fuel burnup in VVR-S, analysis of variations in, 21:12244
fuel cladding of IRT-2000, corrosive effects of 4 year operation on aluminum, 24:2040
fuel cycle costs of, 21:14093
fuel development and economics in Germany, 21:15657 (KFK-466)
fuel element assemblies in Hector, comparison of calculated and measured reactivity perturbations in plutonium oxide (PuO_2)—uranium oxide (UO_2) single-cluster, 23:21508 (AEEW-R-499)
fuel element assemblies of BR-5, radiation effects on plutonium oxide (PuO_2), (E), 22:35615
fuel element assembly for, description of joined multi-plate coaxial tube, 22:14275(P)
fuel element bundles in, neutron multiplication factor measurements in boiling water reactor PLATR, 23:15732 (ANS-RPD-1, Paper 4A)
fuel element burnup of BR-5 (USSR) Reactor during 1964, 22:18571
fuel element cladding failures in JRR-2, destructive materials testing of, 23:26087 (JAERI-1175)
fuel element cladding for EWA Core 2, measurement of temperature transients in EK-10 type, 22:35598 (INR-879/XI/R)
fuel element cladding for WWR-S, measurement of thickness of anodizing layers on aluminum, (E), 24:52969
fuel element cladding of BR-5, design of system for monitoring leak tightness of, 23:52410(T) (JPRS-48330, pp 553-90)
fuel element cycle management for TRIGA, calculation of optimum, 25:41555
fuel element fabrication procedure for JRR-2, 22:6127
fuel element failure detection system for JRR-4, performance of, 25:12819 (JAERI-Memo-4196)
fuel element failure in EWA, system for detection of fission gas release from, 23:45107 (INR-1035)
fuel element failure in FR-2, detection system for, 24:4102
fuel element failure in FR-2, performance of detection system for uranium oxide (UO_2), 24:4103
fuel element failure in JRR-3, detection system for, 24:4016
fuel element failure in WWR-M, use of Cherenkov detector for detecting, 21:38674
fuel element failure in WWR-S Bucharest, γ spectroscopy of coolant for detection of, 24:11266 (IFA-FR-78)
fuel element failure testing at 400°C for pulsed, 22:40331 (NP-17544)
fuel element failures in, detection methods for, 23:4477
fuel element for, design of plate-type, 21:19494(P)
fuel element handling and storage facilities for ESSOR, criticality calculations for, 23:52446 (EUR-4285)
fuel element inspection in Triga, periscope for, 21:19487
fuel element performance in BR-5, postirradiation examination of plutonium oxide (PuO_2), 22:37527(T) (ANL-Trans-609)
fuel element performance testing in DR-3, 24:18722 (RISO-M-982)
fuel element radial power distributions during TRIGA excursions, (E), 22:30339
fuel element reactivity worth in ECO, oscillation method for measurement of heavy water moderated plutonium—uranium alloy, (E), 24:43814 (EUR-4486)
fuel element response in SORA, effects of temperature on thermoelastic, 22:12093 (EUR-3654)
fuel element temperature calculation in boiling, 21:27734
fuel element testing air-tightness in VVR-M, procedure for, 22:20917(T) (JPRS-44332)
fuel elements for 10 MW MERLIN, design parameters of MTR type, 25:26030 (JUL-693-RE)
fuel elements for 40-MW(t) CIRUS, fabrication of, 21:25668
fuel elements for BR-5, design parameters and fabrication of stainless steel clad uranium carbide (UC) pellet type, 24:41048 (TRG-Report-1911, pp 253-65)
fuel elements for DR-3, physics calculations on, 21:38670 (RISO-M-584)
fuel elements for ESSOR, criticality calculations for transport cask for irradiated enriched, (T), 24:7610 (EUR-4382)
fuel elements for ESSOR, spectral analysis method for detection of vibrations in, 25:39314
fuel elements for EURATOM, manufacturers and industry for production of, 23:21567
fuel elements for European, reprocessing of highly enriched uranium plate, during 1967 and 1968, 25:217 (NP-18397)
fuel elements for EWA-4, steady state and transient temperatures in, (E), 24:43816 (INR-1170)
fuel elements for FR-2, safety analysis and design parameters of experimental NaK cooled plutonium carbide (PuC)—uranium carbide (UC), 24:36066 (KFK-1143)
fuel elements for Geesthacht, temperature measurements in MTR-type plate, 21:46950
fuel elements for High Flux Reactor, in-core heat transfer in MTR plate type, (E/T), 24:36072
fuel elements for JRR-2, shipping procedures for, 22:6035
fuel elements for NSCR, false indication of failure of, 25:51187
fuel elements for pulsed swimming-pool, description of sealed cylindrical graphite reflected nitrogen insulated, 23:23982(P)
fuel elements for pulsed, analysis of thermoelastic stresses in bolted assembly of, 22:3912
fuel elements for RITMO, design parameters and nuclear characteristics of, 23:26096
fuel elements for Texas A and M, infinite multiplication factor for water flooded, (T), 24:2067 (DOCKET-50128-9)
fuel elements for THOR, detection of shipping damage to spent, (E), 25:51176
fuel elements for TRIGA measurement of neutron fine structure in, 23:4332

fuel elements for TRIGA, radial power distributions during power excursions in, (E/T), 24:13607
fuel elements for U.S.S.R. BR-5, radiation effects on uranium carbide (UC), 25:20791
fuel elements for VVR-M, determination of leak rate of, 21:15776
fuel elements for WWR-S Bucharest, γ-scanning device for burnup measurements of, 25:28766
fuel elements for WWR-SM, maximum cladding temperatures for, (E), 25:15395
fuel elements for ZR-4, fission product release from, 24:50189
fuel elements for, classification, properties, and reactions of highly enriched, metallic-dispersed, 23:51043
fuel elements for, design of casks for transport of, 22:290
fuel elements for, design of pellet loading device for, 21:38735(P)
fuel elements for, effects of fuel concentration on compressive strength of aluminum-base dispersion-type plate-shaped, 23:4323
fuel elements for, ESSOR, description of, 22:30330
fuel elements for, fabrication of plate-type, 21:36813
fuel elements for, measurement of fission and absorption rates in, 22:48732 (INR-919)
fuel elements in ISIS, monitoring of time-dependent behavior of fission products subsequent to melting of, 24:16215 (CEA-CONF-1435)
fuel elements in RB-2, fast fission ratio and fine distribution measurements in single natural uranium rod, 23:28569
fuel elements in TRIGA, detection and location of failed, (E), 25:10283
fuel elements in, measurement of temperature dependence of epithermal neutron capture and fission in enriched uranium oxide (UO_2) rod, 23:33114
fuel elements of ANNA, method for determining rho^{28} parameter in multitube, 21:21789
fuel elements of FR-2, balanced oscillator method measurements of in-pile thermal conductivity for, 25:10324(T) (EURFNR-775)
fuel elements of JRR-2, use of activation analysis for measurement of neutron flux and energy distribution in, 23:49598
fuel elements of JRR-3, design parameters and performance of failure detection system for, 25:57117 (JAERI-Memo-4157, pp 23-43)
fuel elements of JRR-3, performance of γ radiation monitoring method for failure detection system for, 25:57118 (JAERI-Memo-4157, pp 44-50)
fuel elements of JRR-4, performance of delayed neutron monitoring method for failure detection system for, 25:57119 (JAERI-Memo-4157, pp 51-65)
fuel elements of pulse, analysis of energy loss from viscous damping of, (T), 25:6123
fuel elements of pulsed, coupled kinetic—elasticity calculations for, (T), 24:20624 (SC-DC-70-4753)
fuel elements of UCLA Educator, effects of seismic stresses on deformation of, (E), 24:5552
fuel elements of WWR, autoradiography analyis of fission density distribution in uranium oxide (UO_2) rod type, 25:60172
fuel elements of WWR-SM, neutron density microdistribution for water moderated tube type, (E/T), 24:26816
fuel elements of, detection systems for failure of, 24:3994 (STI/PUB-204)
fuel elements, development of aluminum—boron carbide (B_4C) control foils for, 23:4324
fuel fabrication for Kyoto University, description of, 22:14272
fuel for thermal FR-2, use of urania instead of uranium, 21:30270
fuel loading in Yugoslav RA, optimization of, 21:19490
fuel plates for Russian SM-2, radiation stability of, (E), 22:37544
fuel plug repair welding of JRR-2, 21:15777
fuel reprocessing for CIRUS, operation of Trombay plant for, 24:9451
fuel rod cooling in VVR-S, electrohydrodynamic method for, 22:51162 (IFA-FR-60)
fuel rod neutronics effects in simulated Gentilly lattice in ZED-2, 23:37357 (AECL-3258)
fuel solutions for BER, dissociation kinetics and concentration of peroxides in, (E), 25:44166
fuel storage facility at JRR-2, design of, 22:16738 (JAERI-1153)
fuels and materials for Brookhaven Pulsed Fast Reactor, 22:4728 (BMI-X-455(Pt.1))
fuels for fast pulsed, performance potential of, 24:11250 (CONF-690102-, pp 443-51)
fuels for fast pulsed, properties of uranium-base, 24:11238 (CONF-690102-, pp 161-70)
fuels for, burnup detection in L-54, 21:35760
fuels for, procurement by ORNL, 22:10060 (ORNL-4170, pp 162)
gamma dosimetry in WWR-S core using radiosensitive glasses, 21:15775
gamma dosimetry in, use of SGD-type glass for, 21:10684
gamma dosimetry measurements in UTR-100, use of chemical systems for, 21:40677 (NP-16991)
gamma energy spectra in DAPHNE, performance of lithium-drifted silicon detector for 25 and 50 mW, 23:34924
gamma field intensity in core of EWA-10, 25:57875 (INR-1319)
gamma flux in EWA, computer program for calculation of, 25:46329 (INR-1276)
gamma flux measurement in, adiabatic calorimetry and dosimetry methods for, 23:4322
gamma radiation studies in IRR-2, review of, 23:47264 (CNM-R-2(Vol.3), pp 1657-83)
gamma spectra from IRT-1000 (Sofia), at 3 to 11 MeV, scintillation detector for measuring, 22:25101
gamma-heating map of thermionic diode in Plum Brook low-power mockup, use of lithium fluoride dosimetry for, (E/T), 22:37539 (N-68-22022)
gaseous effluent from University of Virginia, change of limits on activity of,, 22:25081 (DOCKET-50062-3)
gases from WWR-M, gas chromatographic system for separating, 21:23740
graphite core materials for HFR, correlation of in-pile radiation effects on, 24:14973
graphite core materials for HFR, correlation of nickel-activation measured dose with in-pile radiation effects on, 24:14974
handling equipment for Essor, design of, 25:18627
hazards analysis for urban sited, 25:6103
health physics program for Apsara, 23:15677 (NP-17764)
heat exchanger for FR-3, design parameters of sodium-to-air, 25:39310 (NP-18899)
heat release into Columbia River by, effects of, on growth of salmon, 22:17000 (BNWL-SA-1682)
heat transfer coefficient of, one- and two-region models of fuel and moderator feedback response for lumped, (E/T), 23:31207
heat transfer coefficients for University of Virginia, determination of lumped, (E/T), 22:30384
heat transfer in cylindrical, WUNDEE computer program for one dimensional radial, 23:37608 (AERE-M-2165)
heat transfer to gaseous coolants in, influence of electric fields on, 21:4411
heavy water leakage in JRR-2, procedures for handling, 21:25727
history of fast burst, review of, 23:28570
horizontal channels of IRT, equipment for biological measurements in, 21:23735
hot cell for, design of, 24:22921 (CEA-CONF-1419)
hot cells for, operations experience with French, 24:38591 (CEA-CONF-1532)
hydraulic and auxiliary systems for ECO, description of, 22:48742
in-pile corrosion loop for Avogadro, description of, 22:12098
in-pile experiments at ORNL, instrumentation activities for, 22:22824 (ORNL-4219, pp 121-4)
in-pile experiments at ORNL, instrumentation support for, 22:22823 (ORNL-4219, pp 119-20)
in-pile irradiation facilities for specialized, advancements in design in France of, 25:54184 (A/CONF.49/P-593)
in-pile loop for CABRI, design and safety of Scarabee, 25:10254(T) (ANL-Trans-865)
in-pile loop for Czechoslovakia WWR-S, description of high-pressure carbon dioxide—water-loop, 23:13546
in-pile loop for ESSOR, design of CIRENE Assembly Reactor Tests (CART), 22:42369
in-pile loop for FR-2, description of fast breeder reactor fuel element radiation testing, 24:18653 (KFK-964, Sect. 10.1-14)
in-pile loop for fuel pin irradiation in FR-2, design and operation of helium, 22:42374
in-pile loop for IRT Tbilisi, design of, 25:57129
in-pile loop in ESSOR, chemical and physical properties of water coolant in CART, (E), 25:12821(T) (LIB/Trans-335)
in-pile loop in Fr-2 design for fuel element testing in superheated steam, 25:39288(T) (EURFNR-847)
in-pile loop in HFR, post-failure properties of stainless steel, (E), 25:12823 (RCN-125)
in-pile loop of Cabri Reactor, description of square root computer instrumentation for, 24:31097 (CEA-N-1233)
in-pile loop of Latvian IRT, indium—gallium—tin alloy activation in, 23:15685
in-pile loop of Seibersdorf, description of sodium high-temperature, 21:27822
in-pile loop performance in TRIGA MARK II, description of liquid hydrogen, 22:12126
in-pile loops at JRR-2, description of, 22:12120
in-pile loops at JRR-3, description of, 22:12120
in-pile loops for FR-2, operation of fuel pin irradiating helium, 23:43161
in-pile loops in, review of uses of, 22:53427
in-pile loops of DR-3, design parameters of heavy water forced circulation, 24:16242 (RISO-M-976)
in-pile loops of SM-2 and MIR, operation of, 25:34403(T) (JPRS-53069, pp 176-87)
instrumentation for Apsara, 23:15677 (NP-17764)
instrumentation for Apsara, description of, 22:42361 (NP-17538)
instrumentation for DR-2, development of, 23:38352(R) (RISO-M-873)
instrumentation for FMRB, construction and operation of, 25:37062 (FMRB-32/70)
instrumentation for JRR-2, JRR-3, and JRR-4, design and performance of, 25:51169 (JAERI-13753)
instrumentation for pulse operation of Hitachi Training Reactor, performance of, (E), 24:5551
instrumentation for, review of radiological emergency, 25:32208 (BNWL-1552)
instrumentation in CABRI, measurements for testing of, 21:27815
instrumented probe units for, effects of radiation heating on, (T), 25:46293 (JUL-717-RX)
irradiation capsule explosion in Cornell University TRIGA, 23:26098
irradiation capsule failure in High-Flux Reactor (Nederland), 23:26098
irradiation channels for IRT-M, pneumatic rabbit system design for, 25:57130
irradiation channels for WWR-K, installation of large diameter central core, 24:26817
irradiation channels of UA-RR-1, radiation dose at end of, (E), 24:50198
irradiation facilities of KUR, neutron flux and spectra in, (E), 24:26808 (KURRI-TR-60)
irradiation facility for biological materials in ASTRA, description of fast neutron, 22:30308 (SGAE-R-2/1967)
irradiation facility for IRT Tomsk, design and operation of γ, 25:23360
irradiation facility in Ispra-1, description of EURACOS fast neutron, 23:2079
irradiation facility of Japanese, performance of, 22:13079
irradiation operations in FR-2, description of plutonium oxide (PuO_2)—uranium oxide (UO_2) and uranium oxide (UO_2) fuel assemblies for, 23:9200 (TID-24855)
irradiation services of, survey of, 25:57122
irradiation studies at Apsara, description of chemical compound, 23:15677 (NP-17764)
irradiation testing programs for JRR-2 and JRR-3, review of, 25:54193 (A/CONF.49/P-823)
isotopes production by fast neutrons in, irradiation capsule for, 23:47248 (CNM-R-2(Vol.2), pp 909-26)
kinetic equations for fast CORAL-I, JEN computer program for, 23:21530
kinetic parameters for Spanish fast CORAL-I, 23:21531
kinetics calculations for RB-2, description of, 22:50828
kinetics characteristics of, use of correlation function in analysis of, 23:47304 (CNM-R-2(Vol.2), pp 1031-46)
kinetics equations for TAPIRO fast, approximate analytical solution for , (E/T), 22:30313
kinetics of beryllium reflected core for ASTRA, (E), 25:20796
kinetics of booster and accelerator pulsed, review of, 24:11240 (CONF-690102-, pp 237-61)
kinetics of convergatron flux trap, analysis of multigroup point, (T), 25:10285
kinetics of fast pulsed, extensions of transient response equation for, 24:11232 (CONF-690102-, pp 31-50)
kinetics of fast pulsed, methods for calculation of, (E/T), 24:11231 (CONF-690102-, pp 9-29)
kinetics of GTRR, analysis of spatial and feedback effects of, (E/T), 25:6108
kinetics of MINERVE, analysis of neutron fluctuations for, (E/T), 25:28755 (CEA-N-1406)
kinetics of MIR, SM2 (U.S.S.R), and PLUTO type heavy water cooled and moderated high flux, bibliography on, 23:33086 (KFK-719)
kinetics of reflected pulsed, model of, 21:14102
kinetics of THOR, log scaled simulator for, 23:52475
kinetics of University of Missouri, three-node model of region-dependent, (E/T), 25:18193
kinetics of Yugoslav RB, determination using ROB-1 reactor oscillator, 21:19489
kinetics parameters for heavy water zero power RB, pulsed neutron method for measuring, 22:12116
kinetics parameters of University of Missouri, description of experimental monitoring of, 24:7325
lattice parameter measurements on heavy water moderated 19-rod clusters of enriched-uranium oxide (UO_2)—thorium oxide in ZED-2, 22:7890 (AECL-2778)
lattice parameters for water moderated and reflected WWR-SM fuel element assemblies, effects of water to fuel ratio on macroscopic, (E/T), 24:31131 (INR-1152)
lattice parameters of WWR-SM, effects of increased water-to-fuel ratio on, (E/T), 25:15394
leak detectors for WWR-S, description of color-indicator, 22:20913 (ZFK-RN-31, pp 45-8)
legal aspects in U. S. of, review as of February 1970, 24:22377
lethargy measurements with fast spectrum for Stanford Pool, 22:3903 (TID-24121)
license application for University of Missouri, 23:23966 (DOCKET-50186-2)
license approval for U. S., procedures for, 23:26010
license for operation of University of Missouri, 23:26072 (DOCKET-50186-9)
license for operation of University of Missouri, changes in, 23:26077 (DOCKET-50186-14)
licensed activities at University of Kansas, changes in function of Committee on Radiation Sources for controlling, 23:23957 (DOCKET-50148-2)
licensing of U. S., legal requirements during February to March 1970 for, 24:31035
list of U. S., complete, 23:13416 (TID-8200(19th Rev.))
list of U. S., complete, 25:23232 (TID-8200(23rd Rev.))
list of U. S., complete, 24:52746 (TID-8200(22nd Rev.))
list of U.S., complete, 23:43086 (TID-8200(20th Rev.))
list of U.S., complete, 24:16124 (TID-8200(21st Rev.))
list of U.S., complete, 25:53920 (TID-8200(24th Rev.))
list of worldwide, 25:56984 (STI/PUB-194/4)
list of worldwide, IAEA, 25:12824 (STI/PUB-248)
list of, May 1970 IAEA, 24:38395 (STI/PUB-194/3)
list of, September 1969 IAEA, 24:3993 (STI/PUB-194)
loading machines for, design of, 21:2889(P)
loop design and instrumentation for JRR-3, 21:21764 (JAERI-1121)
loop design and performance in FR-2, for fuel burnup tests, 21:14079 (KFK-397)
maintenance for FMRB, during 1970, 25:37063 (FMRB-35/71)
maintenance for JRR-2 during October 1968 to January 1969, 24:13610
maintenance for JRR-2 during October 1968 to January 1969, 24:13611
maintenance of, 21:27808 (STI/DOC-10/71)
maintenance of JRR-2 and JRR-3, history of, 25:48310 (JAERI-Memo-4304)
maintenance of JRR-2, repair procedures for lower plug and support ring in, 25:51161 (JAERI-13646)
maintenance of Scottish Universities Reactor during October 1968 to September 1969, 24:29055(R) (SRRC-37/70)
maintenance of UFTR during July 1969 to June 1970, 24:47906(R) (ORO-4014-1)
maintenance requirements for Penn State TRIGA, during July 1969 to June 1970, 24:47905(R) (NYO-1859-16)
material buckling measurements in DIMPLE, 22:3885 (AEEW-R-502)
materials for gas-cooled, radiation effects on, 22:35679
measurement of delayed neutron fraction for NASA ZPR-I, 21:5691 (NASA-TN-D-3709)

measurement of epicadmium-to-thermal ratio neutron capture by uranium-238 in RB-1 and RB-2, 21:42827
meteorological data for IRR-1 site, 1963, 21:22040 (IA-1076)
mockup of boiling tube-type reactor in, use of on-line computer for continuous data processing from dynamic measurements in, 23:11299 (RCN-98, pp 381-95)
moderator for pulsed, calculation of optimum thickness for, 25:12827
moderator for Zerlina, epoxy paint coating effects on contamination of heavy water, 24:13589 (BARC-399)
moderator system of CIRUS, radioactivity levels in, (E), 24:13615 (BARC-437)
moderator voids in CANDU modkup in ZED-2, reactivity effect of, (E/T), 22:20775 (AECL-3002)
moderators for pulsed-neutron experiments in, design of scintillator-incorporated, (E/T), 21:8054
modernization of IRT, construction and fabrication operations during, 22:30304 (IAE-1401)
modifications to Soviet IRT-2000, 22:16297(T) (JPRS-43924)
modifications to University of Missouri, summary of, 23:23969 (DOCKET-50186-5)
monitoring of environment near Ispra, 1966, 21:43056 (EUR-3554.e)
multiplication factor in RB-1, measurement of infinite, 22:12112
multiplication factor measurement in natural uranium—graphite lattice in RB-1, null reactivity method for infinite, 22:42368
neutron age in WWR-SM, effects of source heterogeneity on, (T), 25:15394
neutron age-diffusion measurements in RA reactor thermal column, verification of multigroup program by, 22:12113
neutron beam collimation using tapered tubes, (T), 23:15432(R) (ORO-2843-13)
neutron beam experiments in, description of techniques for, 22:39874(T) (ANL-Trans-616)
neutron beam extraction from TRIGA, 23:28301(R) (RLO-2060-1)
neutron beam from University of Texas TRIGA Mark I, use for radiography, 24:11753
neutron beam port for Texas A and M, neutron flux distributions in water gap and graphite reflector of, 24:2028 (DOCKET-50128-16)
neutron beam port for Texas A and M, neutron flux distributions in void extensions of, 24:2031 (DOCKET-50128-19)
neutron beam port of Cornell University TRIGA, tailoring of spectra in, (E), 25:60163
neutron beam production in VVR-S , channel design for cold, 21:35761
neutron beam studies in HERALD, 25:54180 (A/CONF.49/P-486)
neutron beams for biological experiments with IRT-2000, production and characteristics of 200-keV, 24:13262
neutron behavior in TRIGA space-time study of, 23:4332
neutron buckling determinations for reflected, use of neutron importance-shape method for geometric, 22:6110
neutron buckling measurements in heavy water moderated superlattice in ZED-2, 22:33047
neutron buckling measurements in simulated burned-up natural uranium oxide (UO$_2$) clusters in ZED-2, substitution, 22:33046
neutron buckling measurements on ECO reference core, 22:18563
neutron capture rates for uranium-238 in, determination of fast, 21:25721
neutron characteristics in AFSR-type, use of bandsaw shaped foil tape for measurement of delayed, (T), 23:47237 (CNM-R-2(Vol.1), pp 310-18)
neutron chopper facility at FRG-1, design of lithium glass scintillation detectors for time-of-flight measurements at, 23:19982
neutron choppers for thermal and resonance neutrons at the VVR-S, description of mechanical, 22:12127
neutron crystal monochromator for KUR, elimination of higher harmonics by, 23:47274
neutron data recording in CABRI, use of CAE-330 computer for fast, 22:18566
neutron decay constants in semi-homogeneous experiment, measurement of prompt, 22:1869
neutron densities in SUR-100-BE, use of stochastic signals for measuring, 22:6099 (TUBIK-5)
neutron density distribution measurements in multi-layer cells of ANNA, method for thermal, 21:21788
neutron detection systems for Lattice Experimental Facility, 21:44936(R) (GA-8114)
neutron detector modifications in Texas A and M University, minimization of γ compensation problems by, 22:53452
neutron diffraction measurements in repetitively pulsed, methods of thermal, 24:11258 (CONF-690102-, pp 563-77)
neutron diffraction studies in RA (Vinca), 25:28779
neutron disadvantage factors in slab-fueled, using boron—water lattices, 21:8070
neutron distribution in VVR-S, calculations using S/sub n/ approximation, (T), 23:1771
neutron dose equivalent measurements for Hungarian WWR-S, fast, epithermal, and thermal, 22:6130
neutron dose near Korean TRIGA Mark II, use of Bonner-sphere detector for monitoring, 25:34406
neutron dosimetry near TRIGA Mark II, activation dosimeter for, 22:19163
neutron dynamics in simulated boiling water cooled heavy water moderated natural uranium dioxide ZED-2, measurement of, 23:37632
neutron economy in heterogeneous-core, albedo method of calculating thermal, 21:30275
neutron energy spectra in MOATA, over thermal to 500 eV range, (E/T), 24:9139 (AAEC/TM-501)
neutron energy spectrum of Kyoto University, 23:40092 (KURRI-TR-12)
neutron energy-loss scattering experiments using time-of-flight method, cold, (T), 22:44594
neutron fields in TRIGA Mk II, temperature measurement of, 21:27821
neutron fissions in uranium-235 in heavy water moderated, ratio of epicadmium to subcadmium, 22:33006
neutron fluctuations in zero-power, analog simulation of, 21:34523 (ORNL-4091, pp 136-82)
neutron fluence determinations in WWR-S, foil activation techniques for, 22:16294 (UJV-1905)
neutron fluence measurements in ZED-2, effects of various moderators on, 22:12083 (AECL-2772)
neutron fluence variations in Netherlands, use of computer for evaluating autocorrelation function of, 22:20922
neutron flux and spectra calculations for ASTRA, use of combination of GAM, TEMPEST-II, and TWENTY GRAND for, 23:37617 (SGAE-R-3/1968)
neutron flux and spectra for Harmonie, calculated and measured values for, 23:37616(T) (ORNL-tr-3026)
neutron flux calculations for NASA ZPR-1, multigroup transport computer program for, 21:30261 (NASA-TN-D-3990)
neutron flux densities in SM-2, gold film activation method for measurement of thermal, (E), 25:23354
neutron flux density in 45 MW core of HFR (Netherlands), thermal and fast, (E/T), 25:15393 (RCN-119)
neutron flux density in FRG, effects of in-core irradiation device on, (E/T), 24:22452
neutron flux determinations in Harwell, thermal and epithermal, 22:16264 (AERE-M-1870)
neutron flux distribution and spectrum of HFR, calculation of fast and intermediate, 24:13595 (CONF-671224)
neutron flux distribution in ANNA, with graphite—water moderator, 21:14075 (INR-724/IXA/R)
neutron flux distribution in core of 5 MW(t) Army Materials, 24:9142 (DOCKET-50047-3)
neutron flux distribution in graphite-moderated core of ANNA, 21:14076 (INR-730/IXA/R)
neutron flux distribution in IRT-2000, computer program for, 21:30273
neutron flux distribution in JRR-3, measurement of, 21:46948
neutron flux distribution in RV-1, measurement of thermal, (E), 25:12826
neutron flux distribution in thermal column of FRG-1, effects of beam tube on, (E), 24:38611
neutron flux distribution in UA-RR-1, foil activation method for thermal, 25:39313 (UARAEE-99)
neutron flux distribution in UTR-100, comparison between measured and calculated values of thermal, 21:42819 (SRRC-12/66)
neutron flux distribution in WWR-SM, analysis of fast, epithermal, and thermal, (E/T), 23:45106 (INR-968)
neutron flux distribution measurements in, use of integral experiments for, 21:35549 (ANL-7320, pp 270-5)
neutron flux distributions in RRR, measurements of thermal, 22:14274
neutron flux distributions in ZED-2, HAMMER code analysis of, 21:8100
neutron flux extrapolation length in thermal, second order correction to, 21:15766 (N-66-19220)
neutron flux for, design requirements for high thermal, 25:10268(T) (LA-4399-TR)
neutron flux in central thimble of TRIGA Mark 2, measurement of fast, 25:10277
neutron flux in fast, core optimization for pulsed-beam experiments, (E/T), 21:23710 (BNL-994, pp 45-69)
neutron flux in irradiation channels of University of Pavia Triga, (E), 24:22451
neutron flux in MIR and SM-2 Reactor (U.S.S.R.), calculation of fast and thermal, 25:39301(T) (LB/G-3014)
neutron flux in pulsed, in-core detector for monitoring transient thermal, 24:31108
neutron flux in pulsed, review of methods for determining time dependent thermal, 23:4386
neutron flux in Texas A and M, distribution of thermal, (E), 24:2014 (DOCKET-50128-1)
neutron flux in TRIGA Mark-2, use of coated metallic plate muscovite mica fission track detector for measurement of fast and thermal, 23:40398
neutron flux in Union Carbide Nuclear, intrinsic method for determining thermal, 21:40591
neutron flux in vertical channel of IRT-2000, epithermal and fast, (E), 25:51193
neutron flux in, space-dependent effects on noise and oscillator measurements of, (T), 21:15781
neutron flux in, use of diamond for measurement of integrated, 25:39236(T) (LB/G-3027)
neutron flux intensity measurement in, description of 1 keV two phosphorus-copper detector method for epithermal, (E/T), 23:2125 (CEA-R-3441)
neutron flux measurement in, adiabatic calorimetry and dosimetry methods for, 23:4322
neutron flux measurements in, 22:50828
neutron flux measurements in 5 MW(t) PARR, 22:6097 (PINSTECH/PHY-7)
neutron flux measurements in beam holes of WWR-S, residual, 22:3911
neutron flux measurements in DAPHNE/PLUTO mockup, 21:14066 (AERE-M-1820)
neutron flux measurements in FRJ-1, analysis of thermal, 23:11286 (JUL-546-RE)
neutron flux measurements in ORGEL-type fuel clusters in RB-1, 21:30268
neutron flux measurements in PULSTAR and TRIGA, design and performance of detector using boron-10 (n, α) lithium-7 reaction for, 22:43048
neutron flux measurements in RB-1, analysis of thermal, 22:48741
neutron flux measurements in reflected, thermal, 21:2881
neutron flux measurements in test facilities of JRR-4, 21:21763 (JAERI-1120)
neutron flux measurements in TRIGA MARK 2, use of cross sections and threshold reactions for fast, 24:2041
neutron flux measurements in TRIGA-II, use of activation detectors for, 22:40376
neutron flux measurements in VVR-S following shutdown, 21:4410
neutron flux measurements in WWR-S, electronic calculator for, 22:51284
neutron flux measurements in ZR-2 and WWR-S, (E), 21:19488
neutron flux measurements in, use of activation detectors for, 22:50831
neutron flux measurements in, use of self-powered detectors for, 25:51160 (JAERI-13612)
neutron flux monitoring in KUR, conference on, 25:4320 (KURRI-TR-59)
neutron flux monitoring in TRIGA, development of aluminum—copper alloy activation detector for thermal and fast, 22:4437
neutron flux monitoring in, self-powered cobalt detector for, 23:40980 (AECL-3368)
neutron flux noise analysis for L-54, use of measurement of power spectral density for, (E/T), 22:50827
neutron flux perturbation factors in, use of closely-spaced indium foils for determining thermal, 23:670
neutron flux perturbations in, effects of cylindrical irradiation specimens on thermal, (E/T), 23:40397
neutron flux regulation in, by nitrogen-16 activity of coolant, 21:1213(T) (UCRL-Trans-10057)
neutron flux spectra distribution in FMRB, distribution of 1.5 to 8.0 MeV, 24:11264 (FMRB-26/69)
neutron flux spectra for Coupled Fast Reactivity Measurement Facility, calculated real and adjoint, 23:24426 (IN-1218, pp 181-316)
neutron flux tilting measurements in two-zone, 22:16301
neutron flux transients in pulsed, analysis using STREAK code, 21:23721 (NP-16480)
neutron flux trap for RA, reactivity experiments for installation of, 22:12111
neutron generation and transport in SORA, application of TIMOC Monte Carlo code to determination of, 23:15733 (ANS-RPD-1, Paper 5A)
neutron inelastic scattering studies in RA (Vinca), 25:28779
neutron lifetime ratio at 3W from noise in Triga, digital computer calculation of, 21:44951
neutron multiplication factor measurements in, 22:50831
neutron multiplication factor measurements in RB-1, 21:30263 (RT/FI-(66)38)
neutron multiplication factors for fast CORAL-I, calculations of, 23:21529
neutron multiplication in zero power, correlation theory of, 21:19484
neutron multiplication measurements in beryllium-reflected fast, Rossi-alpha, (E/T), 21:8079
neutron multiplication measurements in RB-1, facility for heavy water lattice, 21:35709 (EUR-3484.e)
neutron noise analysis of SUR 100 BE, autocorrelation and transfer function measurements for, 22:3909
neutron noise and transfer function measurements for ISPRA-1 (CP-S type), 21:42820
neutron noise in FMRB, (E/T), 24:13600 (FMRB-13/69)
neutron physics measurements in Hungarian ZR-3, determination of parameters for WWR-S reactors from, 22:18573
neutron pulse buildup tests in ACPR, 22:48737 (SC-DR-68-501)
neutron radiative capture in uranium-238 foils in heavy water moderated, ratio of epicadmium to subcadmium, 22:33006
neutron radiative capture in uranium-238 to fissions in uranium-235 in heavy water moderated, measurement of ratio of, 22:33006
neutron reaction rate measurements in DIMPLE, 22:3885 (AEEW-R-502)
neutron resonance absorption measurements on thorium—heavy water lattices in Siemens-Argonaut, comparison of calculated values and, 23:34928
neutron scattering experiments using time-of-flight and conventional continuous source techniques, evaluation of, (E), 23:10907 (AERE-R-5896)
neutron source at FR2, properties of hot, 24:11280
neutron source design for Lattice Experimental Facility, 24:26742 (GA-9658(Vol.1))
neutron source for fast pulsed, performance analysis of thermal and cold, 23:2078
neutron source for FR-2, pressure from reaction of liquid hydrogen with liquid air in cold, 23:9197 (KFK-789)
neutron source for Franco-German High Flux Reactor, design parameters for cold, 25:37087
neutron source for U.S.S.R. IBR-2, design of, 25:54189 (A/CONF.49/P-774)
neutron source in Herald, design of refrigerator for cooling, 24:4404
neutron sources for HFR (Grenoble), physics measurements of integrated cold, 25:26045
neutron sources for high flux, testing of liquid hydrogen and liquid deuterium cold, 23:31196 (CEA-R-3505)
neutron sources for high-flux, thermal neutron spectra from liquid hydrogen and deuterium cooled, 23:9199(T) (NP-tr-1712)
neutron spectra across Triga fuel element in cadmium-bearing heavy water, 22:39541(R) (GA-8626)
neutron spectra and emission times in, measurement techniques and equipment for, 22:14258(R) (GA-8304)
neutron spectra at beam hole of Merlin, (E), 25:20798
neutron spectra distribution in Purdue University Reactor, use of proton-recoil detectors for measurement of fast, 25:26037
neutron spectra for WWR-S, measurement of thermal, (E/T), 22:35634

neutron spectra in Army Materials Research Reactor, effects of core configuration on 5 to 9.4 MeV fast, 23:4388
neutron spectra in beam port of Triga Mark-II, measurement of fast, 22:30332
neutron spectra in beryllium oxide (BeO) and beryllium oxide (BeO)—thorium oxide (ThO_2) moderated uranium-235 fueled MOATA (Argonaut type) Reactor, effects of core composition on epithermal and thermal, (E/T), 23:34915 (AAEC/TM-496)
neutron spectra in central thimble of TRIGA Mark 2, measurement of fast, 25:10277
neutron spectra in CFRMF, (E/T), 24:39207 (IN-1317, pp 233-381)
neutron spectra in coupled-core RBI, use for analysis of reactivity in multi-charge core, 22:47015(T) (N-68-24522)
neutron spectra in experimental channels of VVR-S, intermediate, (E), 25:23356
neutron spectra in experimental channels of WWR-S, intermediate, (E), 24:47912
neutron spectra in FRG, calculation of fast, 21:29855
neutron spectra in graphite thermal column of WWR-S Bucharest, determination of analytical form of thermal, 22:44891 (IFA-FR-61)
neutron spectra in lead and water shielded NASA-ZPR-2, fast, (E/T), 25:41571
neutron spectra in MOATA, measurement of, 21:35662 (AAEC/E-171)
neutron spectra in multiple uranium metal rods of Lattice Experimental Facility, analysis of position-dependent thermal, 23:4365
neutron spectra in PF-4, value of anti τ/sub eff/ for uranium-235 in intermediate, (E/T), 25:15399
neutron spectra in reflector of DAPHNE, determination of fast, 21:30247 (AERE-R-5347)
neutron spectra in Rikkyo University TRIGA, analysis of fast, (E/T), 24:38596 (IAERU-7001)
neutron spectra in tangential beam holes of water cooled and water moderated, measurement of thermal, 24:43822
neutron spectra in Triga Mark 2, calculation of epithermal, 23:37612 (EUR-4227)
neutron spectra in UA-RR-1 core and reflector, numerical calculation of fast, 25:37079 (UARAEE-71)
neutron spectra in UA-RR-1 core, calculation of thermal, 24:18723 (UARAEE-8)
neutron spectra in UA-RR-1, measurement of epithermal, 25:37076 (UARAEE-59)
neutron spectra measurements for pulsed, use of time-focused crystal spectrometer for, 23:37637
neutron spectra measurements in 2MW(t) UA-RR-1, use of activation detectors for fast, 22:42370
neutron spectra measurements in Army Materials Research Reactor, 21:30248 (AMRA-TR-67-05)
neutron spectra measurements in beam from IRT (Sofia) reactor, 22:24821
neutron spectra measurements in central cell of triangular pitch uranium rod lattice Lattice Experiment Facility, description of thermal, 22:53414 (GA-8805)
neutron spectra measurements in heavy water lattices in ZED-2, 21:38655 (AECL-2707)
neutron spectra measurements in IBR, time-of-flight method of, 21:34165
neutron spectra measurements in IRT-2000, description of fast, 23:4379
neutron spectra measurements in reflector of Triton, 21:38443 (CEA-R-3180)
neutron spectra measurements in Rossendorf RRR, 22:14268
neutron spectra measurements in THOR, fission foil—dielectric track detectors for, 25:10836
neutron spectra measurements in, use of lithium-6(n,α)t reaction for in-core, (E), 25:28753 (BLG-450)
neutron spectra of Stark, 21:17520 (KFK-482)
neutron spectra variation determination in WWR-SM Warsaw by lutetium foil-dysprosium foil spectrum index measurements, 22:47012 (INR-895)
neutron spectral distribution measurements in TRIGA Mark F, spectrometer for, 21:35705 (BRL-MR-1841)
neutron spectral index measurement of k/sub infinity/ in RB-1, detector system for, 22:20911 (RT/FI-(67)30)
neutron spectral measurements in RRR, use of activation foils for integral, 22:18564
neutron spectral-index measurements using activation methods, survey of, 22:29873
neutron spectrometer for ISPRA-1, fabrication of rotating crystal, 22:28162
neutron spectrometers at VVR-S, optical characteristics of crystal and time of flight, 22:12128
neutron spectrometry at ISPRA-1, review of equipment and techniques for, 22:12130
neutron spectrometry measurements in VIPER 1, accuracy of time-of-flight, 22:35653
neutron spectrum for THOR, quadruple foil method for measurement of intermediate, 25:57126
neutron spectrum in Democritos, calculation of epithermal and fast, 24:4101
neutron spectrum in horizontal hole of JRR-3, measurement of 1.9 x 10^{-3} to 3.3 x 10^{-1} eV, 23:40400
neutron spectrum in WWR-S, comparison of methods for determining fast, 22:47011 (IFA-FR-65)
neutron spectrum indices and fast fission ratio for heavy water moderated ECO, effects of voids on, (E), 23:31208
neutron spectrum measurements at UTR-100, using a slow neutron chopper, 22:14821 (NP-17261)
neutron spectrum measurements in WWR-S Bucharest, resonance, 22:44894 (IFA-FR-69)
neutron spectrum of nitrogen-17 in IRR-1, measurement of delayed, 21:38680
neutron spectrum of SUR 100 BE, use of neutron chopper for determination of thermal, 23:26093 (TUBIK-10)
neutron temperature distribution in TRIGA Mark 2, measurement during power surge of power transient, (E/T), 25:28770
neutron temperature distribution in TRIGA Mark 2, effects of power pulse on, (E/T), 23:4380
neutron temperature in F-1, measurement of effective, 25:34413
neutron temperature in graphite and internal thermal columns of WWR-S Bucharest, measurement of effective thermal, 22:44892 (IFA-FR-62)
neutron temperature in thermal column of Rossendorf RFR, 21:38303
neutron temperature measurements in, reactivity coefficient method for, 23:47277
neutron temperature measurements on graphite and heavy water reflectors in ZED-2, 21:10201 (AECL-2626)
neutron transport measurements in BR-5, comparison with calculated data, 23:37659
neutron wave measurements in, description of experimental techniques for, 22:32996
neutronics characteristics of pulsed fast, definition of figure-of-merit for optimizing and comparing, 24:7243
noise analyses of homogeneous circulating fuel, high and low frequency, 23:11298 (RCN-98, pp 359-79)
noise analysis of LFR, measurements for one-slab and two-slab core configuration, 23:21560 (RCN-101)
noise calculations for FRG-0, use of time-dependent count rate measurements for, 22:12099
noise coherence functions for Argonaut-type, comparison of measured and calculated values for, 24:7223
noise in Argonaut type, measurement of spatially dependent, (E), 24:52971
noise in WWR-S, on-line spectral analysis of non-nuclear, 23:49591
noise instrumentation for Petten, review of, 23:11291 (RCN-98, pp 79-89)
noise measurements at Petten, review of, 23:11291 (RCN-98, pp 79-89)
noise measurements in AGN 201, spectral analysis of, 21:19482
noise measurements in Petten Low Flux, comparison of seven techniques for, 23:11292 (RCN-98, pp 181-218)
noise measurements in Petten Low Flux, use of two weakly coupled cores for, 23:11297 (RCN-98, pp 339-58)
nuclear materials management at Danish DR-2 and DR-3, development of safeguards systems for, 25:21293
nuclear materials management standards for, IAEO, 25:3851
nuclear physics programs in Yugoslavia, 25:54178 (A/CONF.49/P-348)
operating characteristics of accelerator booster repetitively pulsed, (T), 23:31197 (GA-7263)
operating experience at University of Missouri, 25:51180
operating experience of, summary, 25:54190 (A/CONF.49/P-776)
operating experience with BR-5, summary of, 24:4070
operating experience with fast pulsed, review of, 24:11243 (CONF-690102-, pp 303-12)
operating procedures of fast pulsed, survey of, 24:11242 (CONF-690102-, pp 289-301)
operating procedures of University of Missouri, safety analysis of, 23:23972 (DOCKET-50186-8)
operating state of AGN-201, time interval distribution of neutron pulses for on-line determination of, (E/T), 24:50196
operation and performance of Kyoto University, 21:14092
operation and performance of TRIGA, 23:28772(R) (BMwF-FBK-68-44)
operation and uses of ARB1, ARGOS, and Coral-1, summary of, 25:54188 (A/CONF.49/P-732)
operation at 1 MW of RC-1, argon-41 production during, 23:26097
operation in Canada of, review of, 23:47209 (CNM-R-2(Vol.1), pp 18-33)
operation in small countries of, program for economic, 24:46093
operation in U.S., review of legal actions for, 24:50055
operation in U.S., safety aspects of, 24:50050
operation in urban areas of U.S., licensing procedures for, 25:57131
operation of, 21:27808 (STI/DOC-10/71)
operation of Argentine, summary of experience in, 23:47265 (CNM-R-2(Vol.3), pp 1684-1712)
operation of ASTRA, review of economics and programs for, 22:35614
operation of BOR fast, definition of emergency conditions in, 22:53349
operation of BR-5 (U.S.S.R.), during 1959 to 1967, 23:52417
operation of BR-5 (USSR) Reactor during 1964, 22:18571
operation of BR-5, description of fuel cladding rupture during, 22:30331
operation of BR-5, problems in safe, 22:53441
operation of BR-5, review of, 23:49592
operation of Brazilian Argonaut-type, review of, 23:43145 (CONF-670338, pp 289-98)
operation of Canada, power reactor research and development by AECL, 22:42354 (AECL-3067, pp 21-8)
operation of Canada-India, radiation hazards control during, 22:16299
operation of Cornell University TRIGA, for short-lived isomer research, 22:33022
operation of Coupled Fast Reactivity Measurement Facility, for relative capture cross section integrals of gold-197, uranium-235, and uranium-238, 25:26019 (CONF-710301-7)
operation of Democritos, review of, 25:54172 (A/CONF.49/P-3)
operation of ESSOR, data acquisition and processing system for reliability evaluation and optimum management procedures for, 25:41296 (EUR-4517, pp 293-327)
operation of fast burst, review of procedures for, 23:28573
operation of fast burst, safety considerations in, 23:43165
operation of fast pulsed IBR, review of, 23:28574
operation of fast pulsed, experiment irradiation experience in, 24:11244 (CONF-690102-, pp 313-22)
operation of fast pulsed, proposed standard for, 24:11257 (CONF-690102-, pp 549-59)
operation of FMRB during 1969, 24:31100 (FMRB-30/69)
operation of FR-2, performance for 3750 hours of thermionic converter during, 23:34925
operation of FRAN Prompt Burst Machine, kinetic calculations for oversized burst, 22:22818 (IDO-17231(Add.))
operation of French, 1967 summary of, 23:4316 (NP-17597, pp 151-65)
operation of FRM, review of, 25:28775
operation of GRR-1, 25:28774
operation of GRR-1, review of, 25:28781
operation of Heidelberg TRIGA, review of, 25:60173
operation of High-Flux Reactor, description of, 22:44906
operation of IGR, analog computer simulator for optimum, 23:9136
operation of intermediate, review of, 23:47267 (IAE-1693)
operation of IR-100, feasibility of power level increase during, 25:18194
operation of IRR-1, description of nuclear physics experiments in, 22:12133
operation of IRR-1, review of advanced research projects in, 25:54173 (A/CONF.49/P-11)
operation of IRR-1, summary of 1965, 21:8041 (IA-1082, pp 1-19)
operation of JRR-2 and JRR-3, history of, 25:48310 (JAERI-Memo-4304)
operation of JRR-2 during October 1968 to January 1969, 24:13610
operation of JRR-2, auxiliary facilities manual for, 25:48309 (JAERI-13762)
operation of JRR-2, JRR-3, and JRR-4 during April 1969 through March 1970, 25:51170(R) (JAERI-Memo-4343)
operation of JRR-2, manual for, 25:48308 (JAERI-13761)
operation of JRR-2, manual for, 25:51167 (JAERI-13716)
operation of JRR-3, manual for, 25:51164 (JAERI-13689)
operation of JRR-3, manual for auxiliary facilities, 25:51165 (JAERI-13690)
operation of JRR-4, manual for, 25:51166 (JAERI-13715)
operation of JRR-4, manual for auxiliary facilities, 25:51168 (JAERI-13730)
operation of Kansas State University TRIGA Mark 2, analysis of containment structure radon concentration during, 24:22463
operation of loop in Czech WWR-S, 21:19480
operation of MARK-1 TRIGA, history of, 22:33025
operation of MARK-3 TRIGA, history of, 22:33018
operation of Penn State TRIGA, during July 1968 to June 1969, 23:52413(R) (NYO-1859-4)
operation of PULSTAR, review of 1964 to 1970, 25:6122
operation of Queen Mary College, review of, 25:46304
operation of RA (Vinca), review of, 25:28779
operation of Russian fast pulsed IBR, 21:19485
operation of Scottish, 23:31261(R) (SRRC-29/69)
operation of Scottish Universities Reactor during October 1968 to September 1969, 24:29055(R) (SRRC-37/70)
operation of SD-4 uranium oxide (UO_2)—tungsten-fueled thermionic converter in Battelle Research Reactor, review of test, 23:21522
operation of SILOE, summary of, 23:4348
operation of Soviet IBR, summary of, 24:11239 (CONF-690102-, pp 173-95)
operation of SPR II, 21:27807 (SC-RR-66-2706)
operation of Stuttgart 0.1 W SUR 100, description of, 23:9209
operation of testing, effects of fuel element and experiment failures on, 23:4343
operation of Texas A and M TRIGA, effects of replacement of plate-type fuel elements with rod-type fuel elements on, 23:52426
operation of THOR, review of radiation exposure incidents during, 25:10284
operation of TR-1, at Cekmece Nuclear Center, July—Dec. 1967, outline of, 23:35544(R) (CNAEM-48)
operation of TR-1, review of, 25:28776
operation of TRIGA, 24:29308(R) (BMBW-FBK-70-4)
operation of TRIGA facilities in South American research and training programs, 23:43146 (CONF-670338, pp 321-44)
operation of Turkish TR-1, Jan. 1-June 30, 1967, 23:32949(R) (CNAEM-46)
operation of U. S. Geological Survey TRIGA, fuel element temperature decrease during, 23:43137
operation of U.S.S.R. MP Materials Testing Multiloop, problem of increasing efficiency for, 25:54187 (A/CONF.49/P-720)
operation of U.S.S.R. SM-2, design requirements for high thermal neutron flux, 25:10268(T) (LA-4399-TR)
operation of UA-RR-1, review of, 25:28777
operation of UCLA Educator Reactor, parameters for .5 MW, 24:7203
operation of UCNR, review of problems in, 25:51181
operation of UFTR during July 1969 to June 1970, 24:47906(R) (ORO-4014-1)
operation of University of Florida Training Reactor, description of neutron die-away pulsing, (E/T), 23:47243 (CNM-R-2(Vol.1), pp 573-93)
operation of University of Illinois TRIGA, review of pulsed, 23:47263 (CNM-R-2(Vol.3), pp 1645-56)
operation of University of Missouri, changes in specifications for, 23:26073 (DOCKET-50186-10)

operation of University of Missouri, changes in specifications for, 23:26074 (DOCKET-50186-11)
operation of University of Missouri, changes in specifications for, 23:26075 (DOCKET-50186-12)
operation of University of Missouri, changes in specifications for, 23:26076 (DOCKET-50186-13)
operation of University of Missouri, summary to July 31, 1968, 23:23969 (DOCKET-50186-5)
operation of University of Pavia Lena, history of, 22:33023
operation of University of Texas TRIGA, for activation analysis service, 22:33021
operation of University of Virginia, history of, 22:33024
operation of uranium oxide (UO_2) fueled PULSTAR, review of, 23:47239 (CNM-R-2(Vol.1), pp 408-49)
operation of URR, effects of water absorption by graphite on reactivity in pulsed, 23:43156
operation of UTR-100, at Scottish Research Reactor Centre, 22:6131
operation of VIPER Pulsed Fast Reactor, description of pulse, 23:9210
operation of water-moderated enriched uranium fueled HOR, description of safety of, 22:25111
operation of Yugoslavia TRIGA Mark 2, review of, 25:28778
operation of, conference on, 25:51120
operation of, effects of improved materials development on, 23:4345
operation of, equipment and codes for safe, 25:26035 (STI/PUB-225)
operation of, problems of, 23:49543 (ORNL-4295)
operation potential of subcritical fast, as university facility, 25:6095
operational characteristics of, summary of, 23:43165
operational techniques for WWR-S, discussion of, 22:12096
operations aspects for SM-2 Reactor (U.S.S.R.), 25:18188
operations aspects in Hungary of WWR-type, reviews of, 25:54176 (A/CONF.49/P-326)
operations aspects of KUR, review of nuclear physics studies, 25:54192 (A/CONF.49/P-820)
operations aspects of modified IRT-M, 25:39297(T) (LB/G-3009)
operations aspects of U.K., review of, 25:54179 (A/CONF.49/P-485)
operations aspects of, analysis of optimum economic, 25:39305(T) (LB/G-3022)
operations aspects of, calculation methods for optimum, 25:39299(T) (LB/G-3011)
operations at Kyoto University Research Reactor during April to September 1966, 23:4312 (KURRI-TR-39)
operations experience of U.S.S.R. fast, summary of, 25:54136 (A/CONF.49/P-750)
operations experience with fast liquid sodium cooled BR-5, 23:11269(T) (AEC-tr-6976)
operations experience with Hungarian WWR-type, summary of, 22:42376
operations for FMRB, during 1970, 25:37063 (FMRB-35/71)
operations for FR-3, during 1968 and 1969, 25:31568(T) (EURFNR-823)
operations for Scottish Universities Reactor, during 1969 to 1970, 25:31634(R) (SRRC-41/71)
operations for University of Missouri Research Reactor, review of, 25:10273
operations for, USAEC licensing requirements for, 23:37423
operations history in Romania of WWR-S, review of, 25:54177 (A/CONF.49/P-344)
operations history of FR-2, 1966, 22:22820(R) (KFK-688)
operations history of Rossendorf, 23:4319 (ZFK-132)
operations history of Texas A and M Research Reactor during December 1968 to December 1969, 24:26806 (DOCKET-50128-20)
operations in Congo Republic of TRIGA Mark 1, 24:46092
operations in East Germany of VVR-S, 24:43634
operations in HOR, during 1968 to 1969, 24:20605(R) (NP-18092)
operations in Penn State TRIGA, during July 1969 to June 1970, 24:47905(R) (NYO-1859-16)
operations in UA-RR-1, review of, 24:46095
operations in Yugoslavia of TRIGA Mark 2, during 1969, 25:31633 (IJS-253)
operations incidents during 1969, listing of, 25:48224 (ORNL-NSIC-87)
operations incidents for U.S., during October to November 1970, review of, 25:25890
operations incidents in U.S. during February to March 1971, 25:48166
operations incidents of, bibliography of, 25:26035 (STI/PUB-225)
operations of BR-5 (U.S.S.R.), 24:52749
operations of BR-5 (U.S.S.R.), tabulation of components and systems failures during, 25:39204(T) (LIB/Trans-357)
operations of BR-5, tabulation of systems and components failures during, 24:20580 (NP-18160)
operations of HTR, description of irradiation, 22:47031
operations of IBR (U.S.S.R.), 25:28760(T) (JPRS-52907)
operations of Mexico TRIGA Mark 3, 25:34412
operations of MIR, 24:43821
operations of Otaniemi TRIGA, during 1962 to 1967, 22:35620
operations of pulse, 25:6120
operations of RPT Reactor, review of 1964 to 1968, 25:39290(T) (LB/G-3002)
operations of Russian SM-2, 24:43821
operations of Scottish Universities, description of research and teaching at center during 1966 to 1967, 23:4315(R) (NP-17462)
operations of Thai Research Reactor, review of 1962 to 1967, 23:23975 (THAI.-AEC-10)
operations of WWR-S at Rez, description of, 22:44900 (UJV-1906)
operations review from 1960 of ECO, 22:20810 (EUR-3898)
operations review from 1960 of ESSOR, 22:20810 (EUR-3898)
operations summary for FMRB, during October 1967 to October 1968, 24:41041 (FMRB-8)
operators for, performance analysis and performance criteria for, 23:9121 (NYO-3288-10)
operators for, training and licensing requirements for, 24:18523
oscillation experiments in CESAR, description of equivalent sample method for plutonium—uranium alloy, 25:34402 (CEA-R-4152)
oscillator experiments in Ispra-2, description of, 22:50817
oscillator for RB-2, description of, 22:25103
oscillators in DR-1, description and performance of, 21:17525 (RISO-134)
performance characteristics of Annular Core Pulsed, measurement of, 22:33008
performance of Mainz TRIGA, 25:10472(R) (BMBW-FBK-70-19)
performance of repetitively pulsed, as neutron sources, 21:44511 (CONF-660925, pp 491-508)
performance of TRIGA, 22:20975(R) (BMwF-FBK-67-89)
performance of various types, criteria for comparison of, 25:60167
performance using accelerator booster as neutron source, 21:44511 (CONF-660925, pp 491-508)
period of fast pulsed, digital techniques for calculation of, 24:11253 (CONF-690102-, pp 479-96)
personnel dosimetry system at University of Kansas, proposed replacement of film badge with TLD for, 23:28551 (DOCKET-50148-1)
personnel for ORNL, certifying and retraining programs for operator, 25:39287 (CONF-710416-, Paper 16)
personnel for U.S., AEC requirements for qualifications of, 25:39213 (CONF-710416-, Paper 1)
personnel for University of Oklahoma, changes in, 23:40388 (DOCKET-50112-1)
photon field in RA core, spectrocalorimetric measurements of, 25:57123
photon-energy flux fields in WWR-S, use of spectrocalorimetric probes for, 22:30333
physics calculations for plutonium-240 lattices in, 21:35702 (BNWL-CC-1205)
physics calculations for swimming-pool type JRR-4, approximation methods for, 21:25729
physics characteristics of Soviet IRT-2000, 22:16297(T) (JPRS-43924)
physics characteristics of the SILOE, 23:4348
physics characteristics of UA-RR-1, effects of reflector material on, (T), 25:37080 (UARAEE-73)
physics characteristics of VIPER, measurement of, 22:35642
physics data for, survey of nuclear, 24:28786
physics measurement in type 304 stainless steel-clad 5 per cent enriched uranium oxide (UO_2)-fuel water-moderated THETIS, effects of core configuration on, (E/T), 22:35593 (EURAEC-1882)
physics measurements for 10 MW JRR-2, effects of 10 percent increase of uranium-235 on, 25:15390 (JAERI-Memo-4141)
physics measurements for 28 element uranium oxide (UO_2) fueled air, water, and air-water cooled ZED-2, comparison of, (E/T), 24:5538 (AECL-3416)
physics measurements for Advanced TRIGA Prototype Reactor, comparison of, (E/T), 23:47240 (CNM-R-2(Vol.1), pp 450-87)
physics measurements for Apsara, 23:15677 (NP-17764)
physics measurements for British Harwell, 22:12109
physics measurements for CORAL-1, 25:26043
physics measurements for ECO, comparison with Ispra heterogeneous methods for, (E/T), 22:22841
physics measurements for FMRB, cross spectral density sink frequency, (E/T), 25:10279
physics measurements for heavy water-moderated Ispra, analysis of, (E/T), 22:22839
physics measurements for HOR, description of, 22:25108
physics measurements for JRR-4, description of, 22:16285 (JAERI-1139)
physics measurements for MARYLA-2 WWR-SM, calculation methods for micro- and macroscopic, 22:35597 (INR-878/XXI/PR)
physics measurements for MOATA, description of SGHWR and CANDU type reactor simulation, 23:40384 (AAEC/TM-499)
physics measurements for VIPER Pulsed Fast Reactor, analysis of full pulse, (E/T), 23:9211
physics measurements for VVR-K, description of startup, 23:19533
physics measurements for water moderated WWR-SM type, (E/T), 24:24877 (INR-P-1150)
physics measurements for water-moderated Type 304 stainless steel- and aluminum-clad Hi-C pellet-type uranium oxide (UO_2)-fueled DIMPLE, effects of configuration on, 22:53433
physics measurements in Corvallis TRIGA, use of time-sharing computers for, 23:23981
physics measurements in fast-thermal STARK, 22:1859 (KFK-592)
physics measurements in STARK, use of neutron noise analysis for, 22:12095(T) (EURFNR-285)
physics measurements in type 304 stainless steel-clad 5 per cent enriched uranium oxide (UO_2)-fueled water-moderated THETIS, effects of core configuration on, (E/T), 22:35594 (EURAEC-1882(Annex))
physics measurements in uranium-fueled water-moderated, analysis of rho^{28}, (E/T), 22:35592 (CNAEM-47)
physics measurements in WWR-SM, effects of increased water-to-fuel ratio on, (E/T), 24:20602 (INR-1119)
physics measurements of Rossendorf WWR-S type, effects of 2MW(t) to 10MW(t) power increase on, 24:13609
physics measurements of WWR-M, description of, 22:20917(T) (JPRS-44332)
physics measurements on SORA mockup, effects of beryllium and iron reflectors on, 22:35605 (ORNL-4263)
physics of, lecture notes on, 21:35719 (KR-117)
physics parameter calculations for RB-3 fast-thermal, 22:50871
physics parameter measurements in WWR-SM, 22:48732 (INR-919)
physics parameters for DIORIT, use of power transients for determining, 21:30279
physics parameters for fast CORAL-I, application of Monte Carlo methods for, 23:21529
physics parameters for natural uranium heavy water-moderated lattices in, 21:30245 (AECL-2593)
physics parameters for TRIGA, evaluation of coarse mesh rebalancing technique for use in computing, 23:40441 (CONF-690401-, pp 451-70)
physics parameters for tungsten-based aluminum-reflected assemblies in ZPR-9, 21:31996 (ANL-7207)
physics parameters of FMRB, with two coupled cores, (T), 24:41042 (FMRB-23)
physics parameters of STARK and SUR-100, determination using neutron noise correlations, 21:23630
physics parameters of UR-100 type, methods for calculation of, 24:11267 (INR-P-1124)
physics program for FR-0, experimental and theoretical, 21:35673 (ANL-7320, pp 159-84)
physics research at Rossendorf, summary of, 23:4319 (ZFK-132)
physics research in FRM, 25:28775
physics research in TR-1, 25:28776
physics research in UA-RR-1, 25:28777
physics research in Yugoslavia TRIGA Mark 2, for, 25:28778
physics research programs in GRR-1 review of, 25:28781
plasma production in core of water-cooled, microwave investigation of, (E), 21:16907
pneumatic system design for, 21:26024 (INR-757/XI/R)
pneumatic tube system design for IRR-1, 21:6104
poisoning of Bucharest WWR-S, effects of operation schedule and power level on thermal fission product, 22:48731 (IFA-FR-41)
pool lining of Texas A and M, performance of, 24:2025 (DOCKET-50128-13)
pool of Texas A and M, cracking and leaking of, 24:2026 (DOCKET-50128-14)
power and energy variations in Finnish TRIGA Mark II, statistical determination of, 21:30277
power calibration of 5 x 5 core of FMRB, description of, 23:9218
power distribution measurements in Pakistan, 21:27805 (PINSTECH/RO-2)
power distribution measurements in STARK, 22:16296(T) (EURFNR-352)
power distribution of Delft University, use of nitrogen-16 monitor channel for measurement of integral, 24:9146 (NP-17844)
power disturbances in TRIGA, use of external gamma detectors for, 22:33048
power excursions in HTR, analysis of Doppler-limited pulse operation, (E/T), 23:17258
power excursions in natural uranium fueled pressure tube type, model for self-limiting, (T), 25:10281
power in Union Carbide Nuclear, intrinsic method for determining, 21:40591
power increase for Scottish, 23:21609(R) (SRRC-14/67)
power increase in KUR, leakage γ-ray spectra during, (E), 25:8124
power increase of Czech WWR-S, effects of fuel element surfaces on, 21:19481
power increase of RC-1, description of modifications for, 22:3905
power level of BR-5, effects of γ radiation on power spectral density determinations of, 23:11300 (RCN-98, pp 427-37)
power level of Oregon State University TRIGA, safety evaluation of increase of, 23:40390 (DOCKET-50243-1)
power levels for TRIGA, description of experiences in changing from plate-type to rod-type fuel elements for increasing, 23:52426
power measurements in ASTRA, fission product track detector for, (E), 25:57124
power measurements in RV-1, use of xenon poisoning for, 23:4352
power monitoring of Kyoto University Reactor, measurement of nitrogen-16 and nitrogen-17 for, 23:40392 (KURRI-TR-57)
power noise measurements in Kyoto University, analysis of low-frequency, 21:35752
power of BR-5, effects of reactivity temperature coefficient on, (E/T), 25:23336(T) (JPRS-52290, pp 46-65)
power of RV-1, use of xenon poisoning variation for calculation of, (E/T), 24:22503
power output measurements in THOR, use of tritium monitoring liquid scintillation counter for, 23:23976
power output of Otaniemi TRIGA, alterations for .25 MW, 22:35620
power spectral density for L-54, calculation of, (T), 22:50827
power spectral density in HTR, fast Fourier transform algorithm for analysis of, 25:34431
power spectral density in WWR-SM, identification of non-nuclear noise sources by, (E), 25:48312 (KFKI-71-31)
pressure tube failure in ESSOR, full scale simulation of effects of, 23:28553 (EUR-4101, pp 345-77)
probe for irradiation of corrosion inhibitors in VVR-S core, operation of water filled, 23:26090(T) (NP-tr-1755)
protection systems for U.S., design requirements for, 24:50053

pulsing of Illinois University TRIGA, method for fast, (E/T), 25:10282
pumps for BR-S, performance of liquid metal, 24:52891
pumps for SRE, development of sodium, 21:44854 (ORNL-TM-1993)
rabbit system for experimental facilities in, description of bobbin-wound lead measuring wire for hydraulic, 22:48740(P)
rabbit system for STARK, description of pneumatic, 22:12106
rabbit system for VVR-S, description of pneumatic, 24:43819
rabbit systems for experimental facilities in, description of thread-drive rod-type, 22:47034(P)
rabbit systems for, description of cylindrical-coupling variable-selector for multi-tube hydraulic, 22:47035(P)
rabbits for, description of hydraulic-actuated irradiation capsule holder for, 23:9204(P)
rabbits for, description of multiple-capsule hydraulic-actuated, 23:9203(P)
radiation accidents at Kyoto University, conference on, 23:29472 (KURRI-TR-34)
radiation damage studies in Geesthacht in-pile loop facility, 21:32041
radiation detector for pulsed, development of in-core boron- and lithium-coated proportional, 24:5553
radiation distribution around beam hole of RA reactor, measurement of spatial, 21:23730(T) (JPRS-39787)
radiation dose rates for 3.2 MW VVR-S, measurement of neutron and γ, 23:19528 (NP-17788)
radiation dose to man in environs of, at Hanford, 22:16998 (BNWL-SA-1449)
radiation dosimetry and spectroscopy in fast pulsed, instrumentation for time-dependent, 24:11252 (CONF-690102-, pp 469-77)
radiation dosimetry by chemical methods at RA, 24:19044 (IBK-832)
radiation dosimetry of, for use in therapy, fast neutron, 23:48046 (NYO-2740-6, pp 32-95)
radiation effects on electrical components of Battelle, in-pile, 21:15773
radiation effects testing of fuels in FR-2, safety analysis of single-walled NaK cooled capsules for, 25:10257(T) (EURFNR-764)
radiation effects testing of fuels in TRIGA, design of in-core furnace for high temperature, 25:39319
radiation exposure chamber in JRR-3, neutron monitoring method for, 21:38677
radiation exposure device for WWR-S, design of cryogenic, 23:514
radiation in, use of diamond for measurement of γ, 25:39236(T) (LB/G-3027)
radiation monitoring at ISPRA, programs for, 24:23194 (EUR-4412)
radiation monitoring equipment at Kyoto Univ., performance of, 22:6586
radiation monitoring for Kyoto University Research Reactor during 1965, safety log of, 23:26088 (KURRI-TR-11)
radiation monitoring for, integrated instrumentation system for, 21:25717 (NIJS-R-494)
radiation monitoring of accidents involving, 24:7858
radiation monitoring of Kyoto University, equipment and methods for, 23:15965 (KURRI-TR-1)
radiation monitoring of laboratories of, at Kyoto University during 1968, 25:4508 (KURRI-TR-63)
radiation monitoring of vertical biological chamber of VVR-M, method for γ and neutron, 23:24618
radiation monitoring procedures for 5 MW(t) Army Materials, 24:9141 (DOCKET-50047-2)
radiation monitors for DR-3, measurement of argon-41 and xenon-133 for calibration of, 25:26034 (RISO-M-1215)
radiation protection and monitoring at TRIGA MARK II, 23:48059
radiation standards and procedures for Pakistan, 21:30262 (PINSTECH/HP-1)
radiation target can for ASTRA, calculation of optimum design parameters of fast neutron, 23:52423
radiation target can for ASTRA, physics measurements of fast neutron, 23:52424
radiation target can for FR-2, design parameters of fast breeder reactor fuel element, 24:18653 (KFK-964, Sect. 10.1-14)
radiation target can for NASA-ZPR-1, design parameters and physics measurements of hafnium shielded uranium nitride (UN) pin type, 24:18704 (CONF-690910-, pp 210-20)
radiation target can for, calibration and performance of ionization chambers for fast neutron, 23:52425
radiation target cans for DR-3, fabrication of DRAGON fuel specimen, 24:38595 (DP-Report-45)
radiation target cans for SM-2 Reactor (U.S.S.R.), design parameters of, 25:18189
radiation target cans for SM-2, design of, 25:44487(T) (LB/G-3026)
radiation target cans for, description of vertical mounted horizontal movement, 23:43154(P)
radiation target cans in SM-2, neutron absorption levels for, (E/T), 25:1939 (SRARI-P-69)
radiation target capsule design for Russian SM-2, with means for temperature control during irradiation, 24:31104 (SRARI-P-56)
radiation testing in FR-2, fuel element, 22:32777 (KFK-700(Pt. XI))
radiation testing in FR-2, fuel element, 22:53273(T) (EURFNR-472)
radiation testing of steel samples in FRG-1, facilities and methods for, 23:28567
radiation testing programs in HFR, 24:13595 (CONF-671224)
radiation tissue-equivalent kerma variation in air during and after excursion in AFRRI-TRIGA, 24:6039
radioactive contamination in vicinity of Kyoto University, control of, 24:16707
radioactive contamination of environment of, effects of, on personnel, 22:6818
radioactive effluents from Merlin, device for measurement in delayed exhaust air of argon-41, 24:29046 (CONF-690540-, pp 113-18)
radioactive effluents in Japan from, release limits for coastal areas of, 24:45923 (CONF-700810-42)
radioactive gas release during operation of KUR, control methods to minimize, 23:28558 (KURRI-TR-44)
radioactive waste from, processing of, 21:14305
radioactivity in cooling water of Slowpoke, 25:54587(R) (AECL-3909)
radioactivity in environs of Juelich, equipment for measuring α, β, and γ, 24:36555 (JUL-603-ST, pp 93-100)
radiography facilities at Battelle, design of neutron, 24:16805 (CONF-690910-, pp 533-50)
radioisotope production from Apsara, 23:15677 (NP-17764)
radioisotope production in ASTRA, review of, 25:29274
radioisotope production in FR-2, cross sections for (n,p) and (n,α) reactions with fast neutrons, (E), 25:36686 (CONF-680986-1)
radioisotope production in GRR-1, review of 1962 to 1970, 25:28772
radioisotope production in IAN-R1, 22:40321 (IAN-Q-6)
radioisotope production in TR-1, 25:28776
radioisotope production in Triga Mark III, optimization of irradiation schedule for, 23:325
radioisotope production in UA-RR-1, 25:28777
radioisotope production in Yugoslavia, 25:54178 (A/CONF.49/P-348)
radioisotope production in, target preparation and processing for, 25:29275
radiological protection aspects of tritium at Karlsruhe, 23:4930(T) (NP-tr-1703)
reactivity balance controlled by xenon-135 content in cyclically operated, (T), 24:16248
reactivity calculations for pulsed, tabulation of, 23:4386
reactivity calculations of HECTOR, analysis of substitution measurements for, 22:1874
reactivity calibrations on ECO control and safety devices, 22:18563
reactivity coupling coefficient for UTR-10, measurement of mean generation time ratio to, 21:42833
reactivity data for CFRMF, 24:39207 (IN-1317, pp 233-381)
reactivity effects in pulsed, measurement of space-time dependence of, 23:37641
reactivity effects in SORA, application of TIMOC Monte Carlo code to calculation of, 23:15733 (ANS-RPD-1, Paper 5A)
reactivity effects in, P_1 approximation calculation of, 21:30271
reactivity excursion in Japan HTR, analysis of pulsed, 25:23349
reactivity fluctuations in RB-2, use of reactor oscillator for measuring electrolytic cell-induced, 22:12097
reactivity for, effects of low-power operation on safe built-in, 23:23977
reactivity in IRT, effects of reflector material and in-pile loop on, 23:49590
reactivity in RB-1, effects of neutron spectra on zero reactivity method for calculating, (E), 22:10074 (EUR-3637)
reactivity in, removal of neutron source effects on measurement of, (T), 23:47259 (CNM-R-2(Vol.3), pp 1548-59)
reactivity measurement in, using noise, (T), 21:8085
reactivity measurements for 5 x 5 core of FMRB, description of, 23:9218
reactivity measurements for ESSOR, analysis of zero-power, (E/T), 22:30330
reactivity measurements for LFR, effects of detector locations on pulsed neutrons, (E), 23:11302 (RCN-98, pp 579-600)
reactivity measurements from core or reflector in AGN-201-type, 21:2885
reactivity measurements in AGN-201, subcritical, 21:40686
reactivity measurements in Anna, use of rare earth dispersions in metals for, 21:18323 (INR-751/XIV/PR)
reactivity measurements in Annular Core Pulsed, use of individual fuel element contributions to determine excess, 22:33007
reactivity measurements in Daphne, device for, 21:31986
reactivity measurements in ECO and RB-1, accuracy of zero-reactivity method for, (E/T), 22:30338
reactivity measurements in FRJ-1, analysis of, 23:11286 (JUL-546-RE)
reactivity measurements in PF-4, coherent method for subcritical, (E/T), 23:11296 (RCN-98, pp 279-90)
reactivity measurements in pulsed TRIGA, kinetic distortion effect on, (E/T), 25:54275
reactivity measurements in RB-1, use of supercritical period method for, 22:50831
reactivity measurements in RITMO RC-4, source-drop technique for, 24:16243 (RT/FI-(69)11)
reactivity measurements in RTS-1 Galileo, 22:50825
reactivity measurements in RV-1, use of xenon poisoning for temperature coefficient of, 23:4352
reactivity measurements in Siloette, use of continuous current ion chamber for on-line, 22:37545
reactivity measurements in two-region AGN type, pulsed neutron, 21:40689
reactivity measurements in, methods for, 22:12108
reactivity measurements in, use of analog computers for automatic, 24:22494(T) (ANL-Trans-820)
reactivity measurements of simulated CANDU-BLW lattices in ZED-2, 21:30246 (AECL-2667)
reactivity measurements on SORA mock-up, 21:5692 (ORNL-P-2641)
reactivity meter for Otaniemi TRIGA, description of, 22:35621
reactivity meter for STARK, application of noise techniques with two-detector cross correlation for on-line, 23:4328
reactivity meter for, description of, 22:38043
reactivity of ASTRA, effects of beryllium reflector on subcritical, (E), 25:20795
reactivity of beryllium oxide (BeO) and beryllium oxide (BeO)—thorium oxide (ThO_2) moderated uranium-235 fueled MOATA (Argonaut type) Reactor, effects of core composition on, (E/T), 23:34915 (AAEC/TM-496)
reactivity of BR-5, variations with time of, (E/T), 25:23339(T) (JPRS-52290, pp 125-41)
reactivity of coupled core FMRB, (E/T), 25:12818 (FMRB-34/70)
reactivity of FMRB uncoupled cores, effects of heavy water reflector tank on, (E), 25:20797
reactivity of IGR, calculation and characteristics of integral, (T), 25:60171
reactivity of Kyoto University Research Reactor, effects of xenon-135 on startup and shutdown, 23:4313 (KURRI-TR-46)
reactivity of Latvian IRT, effect of in-pile loop activity generator elements on, 23:15681
reactivity of NASA zero-power, shutdown, 22:6112
reactivity of NASA-ZPR-II, pulsed-source method measurements of shutdown, (E/T), 25:1927 (N-70-35911)
reactivity of Penn State TRIGA, results of thermal cell contribution to prompt negative temperature coefficient of, 23:43159
reactivity of RB, oscillator method for measurement of low, 22:44910
reactivity of reflected slab, model of, 21:25720 (UCRL-70366)
reactivity of reflected-slab, model of time-dependent, 21:23734
reactivity of Russian SM-2, effect of moderator density on, (E), 22:35639
reactivity of simulated CANDU—BLW lattices in, effects of BLW booster fuel rods on, 21:32003 (AECL-2689)
reactivity of STARK, methods for calculating, (E/T), 23:17278
reactivity of TRIGA, effects of period variations on, 21:8078
reactivity of water reflected TRIGA Mark 3, effects of kinetic distortion factor on calculation of, (E/T), 25:60162
reactivity of water-moderated enriched uranium dioxide fuel lattices in, 21:5681(R) (BAW-3647-1)
reactivity oscillation measurements in AGN 210, effect of neutron noise on, 21:19482
reactivity oscillator for MOATA, design of digital voltmeter for use with square-wave, 21:28296 (AAEC/M-74)
reactivity perturbations in RRR (Rossendorf) from thermal absorber and fast neutron source, pile oscillator measurements of, (E/T), 24:24889
reactivity perturbations in RRR (Rossendorf), effects of thermal absorber and fast source on, (E/T), 24:38613
reactivity pulse production in, design of device for, 21:2886(P)
reactivity temperature coefficient in RV-1, effects of xenon buildup on, (E/T), 24:18741
reactivity temperature coefficient of WWR-type, three-group diffusion theory analysis of, (E/T), 25:37138 (UARAEE-105)
reactivity temperature coefficients for University of Virginia, (E/T), 22:30384
reactivity temperature coefficients for, one- and two-region models of fuel and moderator feedback response for lumped, (E/T), 23:31207
reactivity transfer function measurements in, design of digital analyzer for, 22:32967 (EUR-3916)
reactivity variations in FRG, effects of in-core irradiation device on, (E/T), 24:22452
reactivity variations in HTR, reactivity balance method for measurement of, (E/T), 25:26039
reactivity variations in low-power, Laplace transform technique for determining source effects on, 24:16243 (RT/FI-(69)11)
reactivity variations in pulsed, Monte Carlo method for calculating effects of geometric perturbations on, 23:4433
reactivity variations in University of Washington Educator, effects of fuel-box shield plug multiple section gasket on, 23:26098
reactivity variations with coolant density for a steam-cooled plutonium-fueled fast lattice in DIMPLE, (E/T), 22:35641
reactivity void coefficient in Texas A and M core 2, (E), 24:2017 (DOCKET-50128-4)
reconstruction of FRJ-1 Merlin, radiation protection practices during, 23:28556 (JUL-555-RE)
reflector for HFR (Grenoble), hydraulic and thermal design requirements of, (E/T), 25:3910
reflector for IAN-R1, neutron flux and reactivity measurements in, 22:32971 (IAN-R-1-2)
reflector for TAPIRO, activation calculations for, 22:50829
reflector for Texas A AND M TRIGA, brief description of effects of flooding in, 23:15568
reflector savings for UA-RR-1, measurement of axial, 25:39313 (UARAEE-99)
reflector spectrum of UA-RR-1, modified Perkin's method for calculation of, 23:31226
regulation of U. S., review of action on, 21:15732
reliability analysis of ESSOR, 25:6094 (RISO-214, pp 597-625)
remote handling equipment for FMRB, design parameters for startup radiation detector of, 25:28773
research and development at Puerto Rico Nuclear Center, 1968, 23:37857(R) (PRNC-131)
research and development at Technical University of Berlin SUR 100, 1969, 24:36652 (TUBIK-19)
research program at JKRR, Jan. 1—June 30, 1965, 23:34491 (KURRI-TR-22)

research program at JKRR, July 1—Dec. 31, 1965, 23:34492 (KURRI-TR-25)
research programs at FR2, 21:12210
research programs at Virginia Polytechnic Institute during January 1960 to August 1968, review of, 25:18178 (TID-25646)
research programs for IRR-2, review of, 25:54186 (A/CONF.49/P-655)
research progress on Japanese, 22:30420
response to pulsed neutrons, effects of reflector on, 21:25720 (UCRL-70366)
retirement of JRR-1, 25:51170(R) (JAERI-Memo-4343)
safety analysis for 2 MW(t) operation of University of Virginia, 22:25079 (DOCKET-50062-1)
safety analysis for FRAN Prompt Burst Machine, 22:22817 (IDO-17231)
safety analysis for SORA, description of, 22:50812 (TID-24706)
safety analysis in U.S. during February to March 1970, 24:31087
safety analysis methods for fast burst, review of, 24:11255 (CONF-690102-, pp 533-41)
safety analysis of ACPR, 21:27806 (SC-RR-66-2609 and Suppl.)
safety analysis of Kyoto University, diffusion climatology studies for, 23:40877 (KURRI-TR-54)
safety analysis of SPR II, 21:27807 (SC-RR-66-2706)
safety analysis of TAPIRO, 22:50829
safety analysis of University of Missouri, preliminary, 23:26071 (DOCKET-50186-1)
safety analysis of University of Missouri, summary, 23:23971 (DOCKET-50186-7)
safety analysis reports for, guide to preparation of, 22:44836 (TID-24631)
safety aspects of ESSOR, 25:6094 (RISO-214, pp 597-625)
safety criteria for fast pulsed, 24:11256 (CONF-690102-, pp 543-7)
safety incidents during December 1969 to January 1970, 24:22376
safety incidents in, bibliography of 1967 and 1968, 24:43682 (ORNL-NSIC-69)
safety instrumentation for, reliability analysis for, 22:16111 (CEA-R-3292)
safety instrumentation in French, data tables on, 23:11254 (CEA-R-3550)
safety limits for pulse, 25:6121
safety of FMRB, effects of coupled core installation on, 25:10269 (NP-18498)
safety of FMRB, effects of coupled core installation on, 25:12822 (NP-18499)
safety of Karlsruhe FR2, for irradiation testing, 25:52409 (KFK-1398)
safety of swimming-pool type, use of CABRI for study of, 21:46951
safety of, bibliography on, 23:13525 (ORNL-NSIC-54)
safety of, review of programs for, 24:22440
safety problems of Japanese, 21:14014
safety report on RB-1, 22:3899 (RT/ING-(66)27)
safety rods for ESSOR, measurement of drop-times for, 23:15687
safety system for oxide-core FR-2, neutron flux and period channel measurements for, 23:9196 (KFK-782)
safety systems and interlock requirements for fast burst, review of, 23:28572
safety systems for fast pulsed, requirements for, 24:11251 (CONF-690102-, pp 455-68)
safety systems for Germany, testing experiences with, 23:1984
safety systems for JRR-3, description of, 22:48733 (JAERI-6004)
safety systems of, automation of, 24:16251
safety testing in fast flux—thermal region of MINERVE, description of, 22:14263(T) (AEC-tr-6910)
safety valves and rods for Spanish fast CORAL-I, description of, 23:21527
safety-related occurrences in TRIGA, summary descriptions of, 23:52301
safety-related occurrences in, February-March 1969 summary of, 23:33076
scram of Rossendorf WWR-SM, safety rod movement during, (E), 25:60165
seed irradiation studies in ASTRA, 24:17167
services for, review of International Atomic Energy Agency, 23:47236 (CNM-R-2(Vol.1), pp 94-100)
shielding analysis for the proposed Los Alamos Molten Plutonium Burnup Experiment, 21:44942 (LA-DC-8538)
shielding calculations for 1 kW uranium fluoride (UF_4) fueled, γ, 22:14266
shielding calculations for CORAL-I, 23:21526
shielding changes for power increase from 2 to 10 MW, 21:27820
shielding experiments at Geesthacht, flux density correction for, 21:21776(T) (ORNL-tr-1513)
shielding experiments in Geesthacht Reactor (FRG), during 1967, 23:49586(R) (EUR-4230)
shielding for BR-5, effectiveness of hydrogen-free graphite and steel, (E), 25:46306
shielding for KUR, testing of biological, 23:47273
shielding for WWR—S, testing of, 21:34164
shielding in University of Wisconsin swimming pool, comparison of Plexiglas plate and water jet diffusers for nitrogen-16, 24:22464
shielding mockup experiment in FRG, design of, 22:3904(T) (ORNL-tr-1522)
shielding mockup experiment in FRG, neutron and gamma flux measurements in, 22:3904(T) (ORNL-tr-1522)
shielding of Geesthacht 4 ESTAGROP, neutron attenuation by, 21:15778
shielding of Hitochi, radiation dose rate on surface of secondary, (E/T), 21:17529
shielding of irradiation facility in Geesthacht, boron steel and steel effects on, 21:40667 (ABS-THH-1014)
shielding of KUR, thermal stress distribution in biological, (E), 24:38599 (KURRI-TR-70)
shielding of VVR-S, construction description of concrete, 22:22849
shielding test facility in JRR-4, measurement of γ leakage in, 22:7924
shutdown environment of L54M, analysis of iodine-131 in, 22:25102
shutdown margin determination in subcritical, by transfer function measurement, 22:30322
shutdown of JRR-2, xenon control optimization for, (E/T), 23:40403
shutdown system for pulsed fast, requirements for hydraulic, 24:50197
shutdown system for SORA, design requirements for pneumatic cylinder actuated rod type, 24:50199
shutdown system monitoring configuration for FR-2 research reactor, description of, 22:42374
siphon breaker for swimming-pool, description of coolant flow regulated, 22:14284(P)
site characteristics of University of Missouri, safety analysis of secondary, 23:23967 (DOCKET-50186-3)
site characteristics of University of Missouri, safety analysis of, 23:26071 (DOCKET-50186-1)
site radiation monitoring of ISPRA-1, measurements during 1967, 23:4304 (EUR-4051)
siting in Hungary, health physics problems of, 24:28978
siting of fast, safety criteria for, 25:8090 (BNWL-SA-3093(Vol.1), pp VI.1-32)
siting of, bibliography on seismological considerations for, 25:39275 (ORNL-NSIC-88)
siting requirements in Japan for, analysis for coastal areas of, 24:45923 (CONF-700810-42)
sodium loop for CABRI, design for RAPSODIE fuel pin testing liquid, 22:53451
sodium-24 production at Pakistan Research Reactor, description of first commercial, 23:21895 (PINSTECH/RIPD-1)
source transport in pool-type, description of hydraulic-actuated rabbit system for neutron, 22:53429(P)
spectrometer for DR-3, description of 0.020 to 1.3 MeV γ, 22:12132
spectrometer for FRM, description of conversion-electron, 22:12132
stability of RTS-1 Galileo, determination of, 22:50825
startup and operations experience at the University of Missouri, summary of, 23:33091
startup channel of Texas A and M, modification of, 24:2023 (DOCKET-50128-11)
startup channel of Texas A and M, properties of photoneutron flux following shutdown in, (E), 24:2030 (DOCKET-50128-18)
startup experiments in FRJ-1, data from, 23:11286 (JUL-546-RE)
startup experiments on CABRI, blind, 22:16114 (CEA-R-3341)
startup in 1969, table of initial, 24:16108
startup of 5 MW(t) PARR, 22:6098 (PINSTECH/RO-1)
startup of CABRI, description of MAXTREL method for blind, 23:34921(T) (ORNL-tr-1938)
startup of HTR with a digital control system, automatic, 22:22848
startup of KUR, calibration and testing for initial, 23:47276
startup of KUR, initial testing program following, 23:28557 (KURRI-TR-16)
startup of UA-RR-1, system for automatic, 25:37082 (UARAEE-94)
startup of UA-RR-1, system for automatic, 25:37083 (UARAEE-108)
startup procedures for, review of, 22:35619
startup program for FMRB, 24:41044 (FMRB-25)
startup program for FMRB, operation at 100 to 200 kW during, 24:41043 (FMRB-24)
startup sources for, analysis of optimum design parameters for antimony—beryllium, 24:38610
startup tests for 1.5 MW(t) operation in University of Illinois TRIGA, 24:20613
startup tests of FRAN, results and analysis of, 23:41131(R) (IDO-17299)
support structure for JRR-2, leak repair procedures for seal rings of, 24:13611
support structure for JRR-2, leak repair procedures for seal rings of, 24:13610
table of French, 23:4171 (NP-17597, pp 41-73)
tables for world-wide listing of, twentieth periodic summary, 23:1980 (NP-17648)
tabular summary of existent high flux, 21:42817 (PEL-146)
tabulation and description of German, 23:21456
tabulation by type and country of EURATOM, 23:52291
target irradiation in, optimum volume of sample positions for, (E/T), 25:12829
Technical Specifications and license for University of Oklahoma, 23:40389 (DOCKET-50112-2)
technical specifications for, development of, 25:51177
temperature coefficients of RC-1, measurements of, 21:25732
temperature measurements in core of EWA-10, 25:26028 (INR-1183)
temperature measurements in Herald, Pt/Rh thermocouple for, 24:14364
test facilities for HERALD, neutron spectra measurements in liquid hydrogen—deuterium cooled beryllium filter, 24:11281
test facilities for IAN-R1, neutron flux and reactivity measurements in, 22:32971 (IAN-R-1-2)
test facilities for PTB, neutron flux profiles and reactivity worths of, 22:35611
test facilities for SUR 100 BE, lithium fluoride crystal thermal neutron spectrometer, 23:33479 (TUBIK-11)
test facilities for UAR-I, measurement of thermal neutron flux distribution in, 22:25100
test facilities for, neutronics and thermal hydraulics design parameters for steam cooled fast module for increasing neutron fluxes in, 23:40385 (BNWL-998)
test facilities in WWR-M, description of large vertical biological, 22:12100
test facility for Ispra-1, design characteristics of organic cooled CIRO, 24:18737
test facility for ISPRA-1, neutron flux profile of 6 in. through, 22:16292 (RT/ING-(67)14)
test facility for Tsing Hua, for determination of uranium and thorium in ores by delayed neutron activation analysis, 23:49597
test section in Ispra-I, neutron flux measurement in, 21:14088 (RT/FI-(66)4)
testing and calibration of RTS-1 Galileo, description of initial, 22:50825
testing in WWR-S, design of facilities for water corrosion, 21:27812
testing of Pakistan, low-power, 21:27805 (PINSTECH/RO-2)
testing of Pennsylvania State University TRIGA MARK 3, description of startup, 23:47238 (CNM-R-2(Vol.1), pp 390-407)
testing programs for 5 MW(t) Army Materials, 24:9142 (DOCKET-50047-3)
thermal column for Kyoto University Reactor, description and performance of heavy water-cooled, 23:9198 (KURRI-TR-28)
thermal column for RC-1, design of, 21:21773 (RT/ING-(66)19)
thermal column in FiR-1, neutron rethermalization in water and zirconium hydride in, 22:30383
thermal column in Pakistan Research Reactor, reactivity worth measurements on graphite, 22:22825 (PINSTECH/RO-4)
thermal column in Pakistan, measurement of γ dose rate and γ spectrum in, 22:53421 (PINSTECH/HP-5)
thermal column pneumatic rabbit facility design for, 21:12243
thermal neutron flux measurements in reflected, 21:2881
thermocouple calibration in Washington State University TRIGA, effects of pulsing on, 22:33162
thermodynamics for water cooled, (T), 25:37058 (CEA-R-4114)
training manual for AGN—201, 22:30341
transfer function analysis of L-54, use of spectral power density and neutron flux noise for, (E/T), 22:50827
transfer function determination in Kansas State University TRIGA Mark 2, use of computer codes and linear motion pile oscillator for zero power, (E/T), 22:44899 (TID-24579)
transfer function measurement in University of Missouri, description of oscillator technique for, 23:23970 (DOCKET-50186-6)
transfer function measurements in Iowa UTR-10, shutdown margin determination from, 22:14285
transfer function measurements in UTR-100, use of reactivity oscillator for, 22:3901 (SRRC-19/67)
transfer function of Milan L-54, use of pile oscillator for measurement of zero power, 22:50834
transfer function of MOATA (Argonaut-type), measurement of zero-power, 23:11268 (AAEC/TM-481)
transfer functions for ERMINE, MINERVE, and ULYSSE, reactivity modulation method for measurement of, (E/T), 25:28754 (CEA-N-1405)
transfer functions for SORA, calculation of sampled, (T), 25:46289 (EUR-4462)
transfer functions of dual core Argonaut type, two group diffusion theory for, (E/T), 24:52970
transfer functions of Northern Universities Reactor, temperature coefficients of reactivity for fuel and moderator, (E/T), 22:30337
transfer functions relating neutron flux oscillations in two zone Argonaut type, (E), 24:4094
transient heat transfer measurements for Annular Core Pulse Reactor, analysis of 900°C peak-fuel-temperature, 23:2075 (SC-DR-68-625)
transient temperature measurements in pulsed, using temperature-indicating materials, (E), 21:34898 (UCRL-70397)
transients for pulsed, calculation of prompt critical power and temperature, (T), 22:48744
transients in fast pulsed, use of fission couples for measurement of, 24:11254 (CONF-690102-, pp 519-30)
transients in Pennsylvania State TRIGA, space dependence in prompt critical, (E/T), 24:50190
transport systems for short-term irradiations in, survey of, 24:5848 (BNWL-1215)
tritium hazards at, protection of personnel from, 22:19345
use and description of Mexican TRIGA, summary of, 23:47262 (CNM-R-2(Vol.3), pp 1630-44)
use for activation analysis, 24:11274
use for basic physics research, description of, 22:3910
use for industrial isotope production, review of, 23:47251 (CNM-R-2(Vol.3), pp 1230-6)
use for liquid and solid research, 21:29334 (BNL-11401)
use for materials analysis by kinetic techniques, 22:12115
use for slow neutron inelastic scattering time-of-flight studies of pulsed, analysis of, 23:11273 (BNL-13076)
use for training of college students, 24:7060
use in Far East, 21:27808 (STI/DOC-10/71)
use in Germany for irradiation services, technical, economic, and legal aspects of, 25:1940
use in Israel for physics research, 25:28780
use in medicine, review of, 22:43364
use in radiation damage experiments, 21:30258 (ORNL-P-3038)
use of 10W L-77, for nondestructive analysis of SNAP fuel elements, 23:47254 (CNM-R-2(Vol.3), pp 1327-32)
use of coupled core Argonaut-type, university teaching and research programs for, 25:41534
use of fast pulsed, in university research programs, 24:11261 (CONF-690102-, pp 613-23)
use of fast pulsed, in university teaching programs, 24:11260 (CONF-690102-, pp 609-12)
use of FRG for shield mock-up testing, 21:17478(T) (ORNL-tr-1519)

  use of FRG, in gamma shielding measurements, 21:21777(T) (ORNL-tr-1517)
  use of Geesthacht Reactor, for physics measurement for Otto Hahn Reactor, 22:46997
  use of Hitachi Training Reactor, for pulse testing of self-limiting power excursions in water-moderated uranium oxide (UO_2) fueled reactors, 23:26100
  use of IBR pulsed fast, 25:44156 (JINR-P3-5754)
  use of IRR-1, on-line with mass spectrometer for isotope separation, 22:28029
  use of JRR-1 and JRR-2 for sample irradiations, review of, 22:12124
  use of multi-zone core DIMPLE and JUNO, for METHUSELAH—AIMAZ analysis of SGHW-type reactor power distribution and reactivity, 22:30319
  use of PLATR, to determine k/sub infinity/ and local power distribution of BWR fuel elements, 22:44839 (UNC-5195)
  use of pulsed, for simulation of underwater explosions, 21:34160 (USNRDL-TR-67-45)
  use of RB-1 for reactivity measurements in heavy water lattices, 21:23739
  use of RB-2 Argonaut-type, for neutron age and diffusion length measurements in biphenyl, HB-40, terphenyl, and water, 23:15683
  use of Soviet BR-1 and IBR, for fast reactor physics measurements, 23:52411(T) (JPRS-48331, pp 199-257)
  use of the University of Pavia TRIGA, summary of, 22:50822
  use of thermal neutron beams from WWR-2, for measurement of space-energy distribution in graphite—water system, 22:22828(T) (AERE-Trans-1085)
  use of TRIGA, as neutron source in radiography facility, 25:51737
  use of TRIGA, as neutron sources, (E), 25:50593 (CONF-710402-(Vol.2), pp I.1-9)
  use of TRIGA, for fast neutron-irradiation of seeds, 24:17047
  use of TRIGA-2 Pavia, review of, 22:50835
  use of University of Maryland 10 kW pool type, for spectrographic analysis of manganese nodules, 25:28764
  use of, in medicine, 21:14682
  use of, in neutron activation analysis, 21:5803
  use with accelerator booster for production of pulsed thermal neutron beams, 21:44510 (CONF-660925, pp 451-84)
  uses for high flux neutron activation, review of, 23:47250 (CNM-R-2(Vol.3), pp 1215-29)
  uses for nuclear structure studies, 25:5474 (KFK-1197)
  uses in Argentina nuclear energy programs, summary of present and future, 25:54181 (A/CONF.49/P-559)
  uses in medicine, 24:33078
  uses of Apsara, summary over ten year period of, 22:42361 (NP-17538)
  uses of high neutron flux, 21:42817 (PEL-146)
  uses of IAN-R1, for activation analysis, radioisotope production, and research in pure chemistry, review on, 24:38770 (PRNC-135, pp 93-7)
  uses of Pennsylvania State University TRIGA MARK 3, 23:47238 (CNM-R-2(Vol.1), pp 390-407)
  uses of, bibliography on, 25:51162 (JAERI-13664)
  utilization of Argentine, summary of, 23:47265 (CNM-R-2(Vol.3), pp 1684-1712)
  utilization of, international study group report on, 21:27808 (STI/DOC-10/71)
  ventilation system for DR-3, accident release radioactivity distribution for, 25:28763 (RISO-205)
  vibration testing of UCLA, systems and components response to, 23:40380
  void coefficient of reactivity in Hitachi Training Reactor, measurement of, 22:20925
  waste hold-up tanks of Texas A and M, degree of mixing in liquid, (E), 24:2016 (DOCKET-50128-3)
  water treatment in Herald, 22:28743
  wind direction and velocity at Ispra, anemometer measurement of, 22:10379
  wind profiles around Kyoto University, double theodolite pilot balloon studies of, 25:21206
  xenon poisoning peak lowering with single power pulses in WWR-S, Bucharest, (E/T), 22:44893 (IFA-FR-64)
  zero power measurements for high-flux demonstration lattice, 21:23714 (DP-1076)
Reactors, Resonance
    see Reactors, Intermediate
REACTORS, ROCKET
    see also Rocket Reactors (Kiwi)
    see also Rocket Reactors (NERVA)
    see also Rocket Reactors (Phoebus)
  acoustic wave propagation in gaseous core, effects of configuration on, (T), 24:52980
  aerodynamic heat transfer distributions in SNAP-8, at angles of attack from 0° to 70°, 21:30617 (NAA-SR-12383)
  analysis of gaseous fuel, 23:42017
  assembly of, equipment for remote, 22:4319
  bearings for, evaluation of materials for, 25:27200 (CONF-691114-7)
  bibliography on, 22:44875 (TID-3586)
  book: Jet, Rocket, Nuclear, Ion, and Electric Propulsion: Theory and Design, 23:43180
  characteristics of, tabular summary of, 23:11312
  circuitry for, design of radiation resistant, 21:35646(R) (N-66-34793)
  components for gas-core, tests on, 22:12078
  configuration for parallel coaxial flow propellant stream in cavity-core, description of, 23:2093(P)
  configuration of dual-purpose atmosphere-fueled aircraft and, evaluation of conceptual, (T), 22:50784
  configuration of open-cycle gas-core, analysis of optimum conceptual design, 22:53405
  configurations of gas-fueled, description of advanced-design, 22:53408
  construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
  construction of, summary of materials for, 23:11312
  control and dynamics of, theory of automatic, 21:15753(R) (N-66-23593)
  control aspects of, linear programming technique for calculation of optimal, (T), 23:7415 (SC-CR-68-3739)
  control by hydrogen propellant flow regulation and system temperature measurement, (E/T), 22:30286
  control drum for advanced ZrH, testing of bearings for, 24:21410 (AI-AEC-Memo-12725)
  control drum worth for fast, calculation of, 23:2090 (N-68-30750)
  control element in, analysis of heat transfer of vane-type, 22:32941
  control of compact power, methods for, 22:6088
  control of fast, evaluation of reflector-based, 21:12218 (ANL-7099)
  control of tungsten—water moderated, feasibility of Chemical Poison Loop System for, (E), 21:1203 (WCAP-2993)
  control of, analysis of indirect schemes for, (T), 22:32953
  control of, calculation of optimal, 21:46935 (SC-CR-67-2723)
  control of, methods for, 21:42808
  control of, use of computerized optimal analysis for, 21:34131
  control of, using helium-3-filled elements, (E/T), 21:8030
  control optimization using models with distributed parameters, (T), 22:12079
  control problems with complicated constraints in, linear programming calculation of optimal, (T), 22:30285
  control system for hydrogen-fueled, analysis of optimum, (T), 23:2094
  control system for water-moderated, performance of helium-3, 22:35575
  control system for, design of optimum operation, 21:46929 (SC-CR-67-2746)
  control systems for multi-zone cylindrical fast, description of yttrium hydride self-regulating, 22:46999 (N-68-24559)
  control systems for, analysis and theory of, 21:14049(R) (NASA-CR-70862)
  control systems for, analysis of quasi-linear programming for calculating optimum, (T), 22:53406
  control systems for, problems and development of, 23:31214
  control systems of, analysis of distributed parameter type, (T), 25:34418
  controls analysis of NERVA-type, at power range operating conditions, (T), 21:44924 (N-67-25841)
  coolant flow behavior of vortex gaseous-core cavity, 21:15754(R) (N-66-37315)
  coolant flow in gas core, characteristics and reactivity effects of, 25:41585
  coolant flow in, effects on reactor kinetics of, 23:49604
  coolant flow in, transient heat transfer and thermal stresses from increase in, 21:40660
  coolant for, thermodynamic data analysis of cesium for, 21:31001 (ORNL-TM-1755)
  coolants for gaseous core, radiant heat transfer parameters of aerosol, (E), 24:33469
  coolants for, fluid flow conditions for, 22:5940
  cooling requirements for tungsten water-moderated, analysis of postshutdown, 22:39866 (N-68-21111)
  cooling system of, optimization of heat transfer in, (T), 25:6127
  cooling systems for, corrosion of containment material in, 23:48326 (UCRL-50511)
  core cell for light bulb concept, design and in-reactor performance of model unit, (T), 25:23366 (N-71-10373)
  core configuration for, description of multi-plate tungsten-clad uranium oxide (UO_2)—tungsten fuel, 22:35574(P)
  core destruct concepts for re-entry of, comparison of nuclear and explosive, (E/T), 22:30280 (NUS-277)
  core development for light bulb type, testing program and procedures for, 25:26024 (GEMP-670)
  core development for light bulb type, testing program and procedures for, 25:26025 (GEMP-684)
  core for, failures from coolant flow induced vibrations in, 22:32950
  core for, performance of MHD driven rotating flow gas, (E/T), 24:50201
  core materials for 710, generation of space-dependent multigroup effective neutron cross sections for, 21:44838 (GEMP-548)
  core mockup of cavity, critical loading measurements in, 22:44874 (NASA-CR-72329)
  core of gas fueled, design parameters of dust curtain in vortex flow of, 24:29065
  core of gaseous, design concept for curved porous wall, 23:37667
  core of, heat transfer in gaseous-fueled cavity-, (T), 22:32940
  core of, radiant heat transfer in gaseous, 22:6072
  core temperature measurements in, performance of thin wire ultrasonic thermometers for, (E), 25:23364(R) (N-70-42181)
  core walls for light bulb concept, development and testing of fused silica models of, 25:23367 (N-71-10379)
  cores for, critical experiments on cavity-type gaseous, 22:6086
  costs for, comparison of chemical propelled vehicles with deep space operation, 25:10287
  coupling effects in clustered, 21:40659
  critical assembly analysis for, 21:30091(R) (ANL-7210)
  critical experiments for Thermal Tungsten, core gamma and neutron doses in, 21:19448 (GA-6942)
  critical facility for, design and hazards of, 21:21801 (GA-5846(Rev.))
  critical mass determination in cavity-type, 22:3881(R) (NASA-CR-72234(Vol.1))
  critical mass for open cycle gas core, (E/T), 24:33468
  critical mass for open-cycle gas core, effects of operating conditions and uranium-233 fuel on, (t), 25:51196
  critical mass for open-cycle gas core, using uranium-233 and uranium-235 fuels, (T), 24:52977 (N-70-29993)
  critical masses for cylindrical cavity gas core, (T), 25:1944 (N-70-33276)
  critical measurements on gas-fueled cavity-core, with variations in core size, shape, and structural materials, 23:11313
  critical uranium-235 concentration in manifold gaseous, 21:35657
  criticality and performance of gaseous core, (T), 21:2865 (AD-635232)
  criticality in coaxial flow and vortex flow cavity-core, analysis of, 22:37520
  criticality measurements for gas-fueled light bulb and open-cycle, analysis of uranium-233, 22:35571 (N-68-10931)
  criticality measurements on gaseous-core mockups using uranium fluorides (UF_6) fuel, 23:2084 (N-68-28612)
  criticality of cavity core type, effects of design parameters on, 23:43171 (N-69-18586)
  criticality of cavity core type, error analysis of two dimensional transport techniques for, (E/T), 23:45112 (N-69-25399)
  criticality of light bulb type, effects of design parameters on, 23:43173 (N-69-23451)
  criticality of sphere shaped uranium fluoride (UF_6) gas core, effects of composition and configuration on, 25:23363 (IN-1443)
  criticality of uranium-233, uranium-235, and plutonium-239 fueled seven cavity light bulb type, 24:4105
  criticality studies in TWMR, 21:2866 (GA-7190)
  description of fast- and thermal-type, 22:16256
  description of liquid plutonium alloy-fueled liquid sodium-cooled rotating centrifugal force-controlled, 22:25070(P)
  description of liquid-fueled liquid-cooled and -reflected, 22:37521(P)
  description of metal hydride-moderated fast and thermal optimum performance, 22:25062 (DLR-MITT-66-07, pp 11-27)
  description of optimum performance lithium-cooled enriched uranium carbide-fueled .1 MW(e), 22:25063 (DLR-MITT-66-07, pp 87-99)
  description of plutonium phosphide (PuP)-fueled lithium-cooled, 22:25069(P)
  description of U.S.A., tables as of 30 June 1968, 22:46918 (TID-8200(18th Rev.))
  description of USSR aircraft, 22:32951
  design characteristics of gas core, 25:36985(P)
  design characteristics of gas-core, 22:12078
  design characteristics of gaseous core closed-cycle light bulb concept, 24:31112 (N-70-17470)
  design concept for beryllium reflector moderated, 25:6136
  design for energizing propellant, 21:25707(P)
  design model for optimum liquid metal-cooled reflector-controlled fast, description of, 22:39869
  design of fast, computer programs for optimum, 23:19540 (UCRL-50429)
  design of fission-electric cell, for electric propulsion in space, 21:17513
  design of propulsion system with gaseous fission vortex, 21:25708(P)
  design of transparent-wall-contained gaseous-fueled, 21:35655 (NP-16787)
  design of vortex stabilized gaseous core, with helium gas buffer layer between fuel and propellant, 25:20806(P)
  design of vortex-stabilized gaseous, feasibility of, 21:35655 (NP-16787)
  design parameters for cavity-type, 22:3881(R) (NASA-CR-72234(Vol.1))
  design parameters for combined thermal chemical, calculation of optimum, 23:19542
  design parameters for in-core thermionic, for space electric propulsion, 22:37510 (GA-8390)
  design parameters for vortex gas core, binary diffusion model analysis of optimum, (E/T), 23:26101
  design parameters for, review of heat transfer, 24:7258
  design parameters of light bulb gaseous core concept, 24:18745
  design parameters of uranium-233 colloid fueled concept, with vortex fuel containment, 25:20811
  design requirements for, summary of, 23:31214
  development for European space program, evaluation of, 22:16253
  development for manned Mars exploration, review of, 24:16264
  development for manned space missions, requirements of future, 22:16254
  development in U.S. of deep space probe and reusable space shuttle, proposed, 25:51200
  development in U.S. of, review of, 23:21535
  development of, 25:39322 (A/CONF.49/P-56)
  development of closed cycle and open cycle gas core, 24:50200
  development of fission and thermonuclear fusion, review of, 23:52428
  development of gas core, 24:50202
  development of gas core, 24:49979
  development of gaseous core light bulb type, for manned space vehicles, 24:20616
  development of high-thrust propulsion systems for, cryogenic research on, 21:28128 (LA-DC-8725)
  development of light bulb and coaxial flow gas core, in U.S, 25:51202
  development of light bulb and coaxial flow gaseous core, review of, 25:12834
  development of multimegawatt thermionic, review of, 22:32933 (CONF-680508-2)
  development of multiple module manned planetary, predicted 1978 to 1998, 23:21536
  development of solid core, 23:43177
  development of solid core, 24:50203
  development of solid core, in U.S, 25:51201
  development of thermionic, for space flight, 21:15752 (LA-DC-8482)
  development of thermionic, review of, 25:51210

development of U. S., review of, 23:11311
development of U.S., description of present and projected, 23:4396
development of U.S., JCAE hearings on, 24:31120
development of U.S., review of, 23:43179
development of, lecture series on, 22:16252
development of, review, 22:4309 (TID-24102)
development of, review of, 24:18746
development of, review of, 24:18745
development of, review of, 25:26051
development of, review of concepts for, 24:18744
development of, review of general trends in, 23:31213
development of, review of U. S, 22:25205 (CONF-670445)
development of, technical and economic prospects for, 25:46318
development programs for liquid- and solid-fueled hybrid and electric, review of, 22:53407
development programs in U.S, 24:50204
developments for Argonne, 21:40651 (ANL-7290, pp 123-38)
disassembly of, equipment for post-test, 22:4321
dynamic behavior of, hybrid computer simulation of, 23:2083 (LA-DC-9642)
dynamic behavior of, hybrid computer simulation of, 24:38617
dynamic characteristics of, use of optimal control analyses for determination of, 22:25066
dynamics of, effects of fission product decay heating on re-start, (T), 25:54228
dynamics of, optimum control of, (T), 22:20952
dynamics of, using lithium—boiling potassium Rankine cycle power system, 21:12221 (N-66-19135)
economics of interplanetary flight by, mathematical model for, (T), 22:39868
economics of reusable nuclear shuttle, for interorbital space missions, 25:60198
effluent aerosol trapping from, effects of up to 148 db sound pressure on efficiency of HEPTA filters for, 22:44873 (LA-DC-9484)
engine systems development for, 22:22925
evaluation of open-cycle gaseous-core concepts for, parameter comparison criteria for, 23:4391 (N-68-27231)
exhaust fission product containment in, description of water scrubbing system for, 22:35567 (LA-DC-9555)
exhaust system test stand for, performance of, 21:23701 (TID-22929)
fallout from, tracer study of transport of simulated ocean surface-deposited, 24:50471 (ORO-3298)
fission density spiking in fast, thin europium neutron filters for reduction of, 22:32939
flight stage development for solid core, 23:47281
flow dynamics of, analog computer study of low-frequency liquid hydrogen, 23:47697 (N-69-30070)
fluid dynamics of gaseous, comparison of calculated and measured, 23:23986(R) (N-68-36412)
fluid flow in, OPTION code for analysis of, 21:30235 (LA-DC-8174)
fluid mechanics for open cycle multi-component coaxial flow gaseous fueled, model analysis of, 23:23987 (N-68-36615)
fluid systems design for gas-cooled fission—electric cell, 21:35647 (N-67-19877)
fuel burnup analysis in thermionic, 21:15755 (N-66-37406)
fuel containment and vortex flow testing of open-cycle and light-bulb types of cavity-core analysis of optimum gas, 22:44877
fuel containment by vortexes in gaseous-fueled open-cycle, 21:35654 (NP-16786)
fuel containment characteristics of gaseous-core, with confined radial outflow and superimposed axial flow, (E/T), 22:37514 (N-68-17131)
fuel containment characteristics of gaseous-core, effect of buffer layer velocity and chamber length-to-diameter ratio on, (E), 22:37513(R) (N-68-16664)
fuel containment characteristics of radial-inflow vortexes in light bulb concept, simulation of heated and unheated, (E), 25:23370 (N-71-10413)
fuel containment in coaxial flow gas core, effects of propellant-to-fuel flow ratio on, (T), 25:51195
fuel containment in curved-porous-wall gas core, flow mockup testing of, 24:4107
fuel containment in gas-fueled, description of magnetic field, 22:32948
fuel containment in gaseous core, turbulent coaxial-flow analysis of, (E/T), 24:33470
fuel containment in gaseous-core, bibliography on vortex flow for fluid dynamic, 23:2085(R) (N-68-28813)
fuel containment in vortex-stabilized gaseous-core, fluid flow criteria for, (E/T), 23:2086(R) (N-68-29503)
fuel containment requirements for open cycle engine, 21:35655 (NP-16787)
fuel containment simulation for vortex-stabilized open-cycle gaseous, analysis of radial-outflow vortex heavy-gas, (E), 22:39861 (N-68-18243)
fuel control system for, analysis of optimal, 21:40655 (SC-DC-67-1916)
fuel development for light bulb type, testing program and procedures for, 25:26023 (GEMP-654)
fuel development for light bulb type, testing program and procedures for, 25:26026 (GEMP-691)
fuel development for light bulb type, testing program and procedures for, 25:26027 (GEMP-693)
fuel element for, description of multiple plate tungsten-clad uranium oxide (UO_2)—tungsten-184, 22:50785(P)
fuel element for, description of tungsten-clad uranium oxide (UO_2)—tungsten-184, 22:42349(P)
fuel element incorporating moderator for high-temperature, composition and fabrication of, 22:23885(P)
fuel elements for, description of clad cylindrical multiple uranium carbide (UC)—based pellets for, 22:25067(P)
fuel elements for, distributed parameter thermal and stress model for determination of coolant flow transients in solid, 22:25066
fuel elements for, use of computer for component assembly sequencing for, 23:40414 (CONF-690401-, pp 133-42)
fuel loss rate for open-cycle gas core, (T), 24:52973 (N-70-25447)
fuel opacity in gaseous-core, equipment for measurement of uranium gas, 22:37513(R) (N-68-16664)
fuel pellets for, equipment for remote examination of irradiated, 24:16737 (CONF-690910-, pp 413-19)
fuel temperatures in gaseous, calculations of, 21:42797 (NASA-TN-D-4164)
fuel utilization in, space trajectories for optimal, 22:1845
fuels for, development of uranium nitride, 25:49574 (ORNL-TM-3300, pp 211-23)
fuels for, transient in-pile tests on tungsten—urania cermet, 21:30091(R) (ANL-7210)
fundamental principles of, for space propulsion, 22:16255
gas flow in core of, transient analysis of hydrogen, (T), 21:14048 (N-66-35211)
generators for, description of gas-filled tube direct current, 22:25068(P)
hazards from accidental explosion of, radiological safety studies of, 21:22412 (ORNL-TM-1159)
heat and mass transfer in axial-flow liquid uranium carbide fuels for, 21:40652 (NASA-TN-D-4127)
heat deposition rates in transparent wall of light-bulb type, analytical determination of, 21:19840 (CONF-660608-13)
heat exchanger for, transient dynamics and thermal stress of, 21:12574 (N-66-39722)
heat transfer analysis of gas core, Monte Carlo radiant, (T), 24:33467
heat transfer calculations for rotating fluidized-bed-core, (T), 21:23710 (BNL-994, pp 45-69)
heat transfer calculations for, revised equations for, (E/T), 25:12833
heat transfer for particle-seeded gas-fueled, analysis of radiant, 22:35570 (N-68-10561)
heat transfer in fuel region of gaseous, effect of fuel opacity on radiant, (T), 21:19841 (N-67-16013)
heat transfer in gaseous-core, effects of turbulence on radiant, 21:38642
heat transfer in high-gravity rotating gas fluidized beds for, 21:22089 (BNL-50013)
heat transfer in, OPTION code for analysis of, 21:30235 (LA-DC-8174)
heat transfer parameters for gaseous core, measurement of, 23:37666
heat transfer system dynamics for tungsten water-moderated, control analysis of, 22:39862 (N-68-18252)
heat transfer system for, testing lithium—boiling potassium, 21:30239 (NP-16767)
kinetics of fast, effects of yttrium hydride (YH) moderator on, 23:2087 (N-68-29950)
kinetics of, effects of coolant flow and power generation on optimum, 23:49604
list of U. S., complete, 25:23232 (TID-8200(23rd Rev.))
list of U. S., complete, 23:13416 (TID-8200(19th Rev.))
list of U.S., complete, 23:43086 (TID-8200(20th Rev.))
list of U.S., complete, 24:16124 (TID-8200(21st Rev.))
list of U.S., complete, 25:53920 (TID-8200(24th Rev.))
materials for high-temperature, development of, 24:8049
materials for liquid-core, properties of graphite, 25:4865
materials for, problems and development of, 23:31214
neutron kinetics of spherical cavity gas-fueled, model for prompt, (T), 21:8029
neutron response in pulsed coupled-core, (E/T), 23:2082 (LA-3982)
nozzle cooling in tungsten water-moderated, hydrogen, 21:8513 (NASA-TN-D-3771)
nozzle design for, cooldown characteristics of regenerative, 21:25704 (NASA-TN-D-3931)
nozzles for gas-core, induction plasma testing of designs for, 25:57640 (N-71-22591)
nozzles for, efficiency analysis of multiple exhaust, 22:22788 (CONF-661204-(Vol.2), pp 78.1-11)
nozzles for, evaluation of performance of multiple exhaust, 21:42809
nozzles for, heat transfer characteristics of, 21:12579 (TID-23652)
nuclear analysis of gaseous-core, 21:14055
operation of, 21:42808
operation of light bulb type, radiant emission spectra from fuel region during, (T), 24:16259 (N-70-12225)
operation of light bulb type, simulation of radiant energy fluxes, transparent walls, and propellant heating in, 24:16260 (N-70-12229)
operation of light bulb type, time-dependent thermal, fluid dynamics, and neutron kinetics equations for, 24:16258 (N-70-12223)
operation of NRX/EST and NRX-A5, 21:40661
operation of tungsten water-moderated, steady-state mapping for analysis of, 21:25703 (NASA-TN-D-3840)
operation of, effects of restart capability on, 21:15758
performance comparison of gas-core, with solid core and pulse propulsion concepts, (T), 22:35577
performance comparison to chemical propulsion, 23:47279
performance criteria for 500 MW liquid-fueled 10^{17} neutron flux, description of, 22:32936
performance of gas-fueled, analysis of conceptual advanced-design, 22:53408
performance of in-core thermionic, for launching television satellites in 24-hr orbit, 23:40926
performance of liquid-fuel, effects of wall materials on, 21:38641
performance of multinode model for simulation of, 21:38634
performance of open-cycle gas core, simulations of, (E), 25:46317 (N-71-20295)
performance of regeneratively cooled gas core, for various space missions, (T), 25:54227 (N-71-22618)
performance of solid core, for orbital launch of interplanetary spacecraft, (T), 24:31121
performance of solid core, nonintegral burn concept for optimization of, 23:45115
performance of solid, liquid, and gas core, comparison of, 23:28576 (N-69-10067)
performance of thermionic converter heat pipe, from 0.01 to 10 MW(e) at 1400 to 2200°K, 22:30283 (UCRL-70816)
performance of water—graphite, comparison of chemical upper stages with, 23:15693 (N-68-35073)
performance of, analysis of economic and operational, 22:25071
performance of, comparison of chemical rockets to, 25:1946
performance of, comparison of shutdown consumption rates of after-cooling propellant, (T), 22:18542 (HW-84412)
performance of, design parameters for optimum, 22:39865 (N-68-19830)
performance of, effect of nozzle cooling on, 21:231
performance of, thermodynamic limits for optimum, (T), 22:20901
performance on interplanetary flight of, digital computer simulation of, 22:35569 (N-68-10429)
performance parameters of solid core, limitations on, 24:22466
performance requirements of 50 and 100 kW(e), for unmanned thermionic electric propulsion missions, 23:45111 (GA-9046(Rev.))
performance studies on vortex-stabilized light bulb and open cycle cavity-core, analysis of, 22:37515 (N-68-22038)
performance testing NRX/EST and NRX-A5, 21:40661
personnel for, radiation exposure limits for, 25:51204
physics measurements for colloidal hydrogen suspended uranium carbide (UC)—zirconium carbide (ZrC) 2000 MW arcs, analysis of optimum, 22:32943
physics measurements for tungsten-based, summary of ZPR-9, 21:35645 (ANL-7320, pp 186-93)
physics measurements for uranium-233 fueled seven cavity light bulb type, 24:4105
physics measurements for, second version of GAMBIT computer program for, 24:16310 (WANL-TME-1969)
physics measurements in liquid metal-cooled fast, effects of gaseous fission product venting on, 23:2089 (N-68-30516)
physics measurements in ZPR-9 for fast tungsten, 21:30091(R) (ANL-7210)
physics measurements on cavity-type mockup with hydrogen propellant, analysis of, 22:32947
physics of cavity core, (E/T), 24:7251
physics parameters for tungsten-based aluminum-reflected assemblies in ZPR-9, 21:31996 (ANL-7207)
physics parameters of spherical gas core, (E), 25:6133
physics parameters of uranium carbide—zirconium carbide fueled fluidized bed, with rotating annular core, 25:41586
power distribution at core temperature of 5000°R, radial, (T), 22:22535
power distribution in light bulb type, effects of parameters variations on, (E), 23:43172 (N-69-23450)
power level and lifetime requirements for thermionic electric propulsion systems for planetary missions, 23:11309 (GA-9046)
power levels in cavity core, effects of reactivity and fuel injection perturbations on, (T), 24:7250
power requirements for electric, as primary propulsion for space vehicles, 22:7876
power supplies for, use of thermionics for, 22:3882
propellant discharge region in gaseous-core, vortex flow effects on radius of, (E), 22:37513(R) (N-68-16664)
propellant flow and temperature in, non-linear stability of steady-state, (T), 22:32953
propellant flow in gaseous-core, optimum injection methods for, 21:35653 (NP-16785)
propellant flow in gaseous-fueled, investigation using rotating-peripheral-wall water vortex tubes, 21:35652 (NP-16784)
propellant for gas core, radiant heat transfer in refractory aerosol containing, (T), 25:6135
propellant for gas core, thermal radiation transmission through refractory aerosol containing, (T), 25:6134
propellant heating in light bulb concept, use of dc arc energy source to simulate radiant, (E), 25:23369 (N-71-10405)
propellant tanks of, TIC-TOC-TOE code for radiation heating rate distributions in liquid hydrogen, 22:39855(R) (N-68-13505)
propellants in gaseous-core, effects of hydrogen aerosol particle size on radiant heating of, (E/T), 23:4394
propulsion systems for, design and performance of electric, 23:11316
propulsions systems for, bibliography on operational analysis of, 24:16253 (AD-696628)
radiation distributions and propellant heating from, calculations using Monte Carlo method, 21:20999 (N-66-27941)
radiation dose from debris of, models for calculation of, 21:34655 (NUS-229(Rev.))
radiation dose from open cycle gas core, calculation of crew, 24:33471
radiation fields for, comparison of computer programs for calculation of, 24:16262 (N-70-12633)
radiation hazards from reentry accident of, 21:15028 (USNRDL-TR-1082)
radiation heat transfer in cavity core, exact solution to radiative transport equation for, 24:7249
radiation measurements for, comparison of calculated and measured internal γ and fast neutron, 23:37671
radiation measurements in, computer programs for gamma and neutron, 21:40653 (NP-16954)
radiation transfer control in gaseous, optical properties of particles and gases for, (T), 21:604 (NP-16338)
radiative flux emission from light bulb concept, spectral distribution of, (T), 25:23371 (N-71-10431)
radiative flux in light bulb concept, use of high-intensity RF energy source to simulate, (E), 25:23372 (N-71-10501)

radiators for, parametric analysis of nuclear shield weight for, 21:31997 (NASA-CR-72245)
radioinduced heating near cores of, effects on aluminum and steel components, 21:45303
reactivity control by controlled pressurized helium-3 in core, design of system for, 21:38461 (NASA-TN-D-4093)
reactivity control in, use of heat pipe evaporators for, (E) , 25:15400
reactivity measurements for light bulb type, testing program and procedures for, 25:26022 (GEMP-647)
reactivity of uranium oxide (UO_2)-fueled compact-core, effects of fuel movement on, (T), 22:46998 (N-68-23894)
reactivity parameters of uranium-235 fueled solid core, (T), 25:6127
recirculation zone in cylindrical gas-core cavity, simulation of flow patterns in, (E), 22:32952
research and development, hearings on AEC authorizing legislation for fiscal 1970, 24:2089
safety analysis of NASA Cavity Reactor Critical Experiment, pre-startup, 21:35713 (GEMP-402)
safety analysis procedures for, 22:16258
safety and radiation protection problems, 21:4404
safety aspects of reusable, analysis of operational, 25:51203
safety review on launch, operation, and reentry of, 21:14056
servomechanisms for, fabrication and testing of fluidic position, 21:24249(R) (N-67-14925)
shielding calculations for graphite-moderated, computer code for neutron and gamma radiation cross sections in, 22:39852(R) (N-68-13502)
shielding calculations for, compilation of cross section data for, 25:54220(R) (N-71-15163)
shielding calculations for, computer code for neutron and photon spatial and energy distribution in, 22:39856(R) (N-68-13506)
shielding calculations for, computer code for neutron diffusion and S/sub N/ transport analysis in, 22:39853(R) (N-68-13503)
shielding calculations for, computer program for fast neutron and gamma radiation point kernel attenuation in, 22:39854(R) (N-68-13504)
shielding calculations for, computer program for neutron and gamma radiation distributions in, 22:39857(R) (N-68-13507)
shielding calculations for, computer program for radiation distributions in, 22:39858(R) (N-68-13508)
shielding calculations for, computer program for radiation flux distributions in complex geometry, 22:39859(R) (N-68-13509)
shielding calculations for, cross section generation and data processing codes for, 25:54221(R) (N-71-15164)
shielding calculations for, measurement of proton-induced prompt secondary gamma doses for use in, 22:6074
shielding calculations for, methods for neutron and photon transport in, 22:39851(R) (N-68-13501)
shielding calculations for, one-dimensional discrete ordinates transport technique for, 25:54222(R) (N-71-15165)
shielding calculations for, point kernel techniques for, 25:54224(R) (N-71-15167)
shielding calculations for, two-dimensional discrete ordinates transport technique for, 25:54223(R) (N-71-15166)
shielding configurations for manned, 23:37674
shielding for low thrust, calculations of optimum, 24:24896
shielding for, calculation of optimum, 23:37675
shielding for, computer code package evaluation for design of, 25:46310(R) (N-71-15162)
shielding for, design and analysis of, (E/T), 25:23365 (N-70-43127)
shielding for, review of techniques for design of, 25:46252
shielding of SNAP, evaluation of lead, lithium hydride, and uranium for, 22:2613 (NAA-SR-Memo-12440)
shielding of, point-kernel radiation program for evaluating, 21:29321 (NASA-TM-X-1397)
shielding requirements for, effects of lithium hydride (LiH_2) propellant tank configurations on, 24:33466
simulation of gas core, operation of 1 MW rf argon plasma jet for, 23:47282
spacecraft configuration for electric generating, 21:35656 (NP-16812)
stability control of, step command system for, 21:16050
stability of gas-fueled cavity-core, analysis of acoustic, (T), 22:32949
stability of gaseous core, criteria for acoustic, (T), 23:47283
stability of gaseous core, effects of neutronic feedback on acoustic, 23:37668
stability of gaseous core, model of acoustic, 24:31123
startup of light bulb concept, operating conditions during, (T), 25:23368 (N-71-10404)
startup of, simulator test for radial turbopump cold flow, 24:16261 (N-70-12322)
structural components of unshielded, auxiliary cooling using bleed gases, 21:45303
temperature distributions in fuel region of gaseous, radiant heat transfer calculations of, 21:1202 (NP-16337)
test facilities for, automation of, 24:519
testing facility for, air backflow and pressure characteristics of downward firing 90° deflecting exhaust system of ground, 24:13620
testing of, description of on-line process analog computer for, 22:35566 (LA-DC-9460)
testing of, nose cone heat diffuser for, 21:17512 (N-66-26757)
testing of, Nuclear Rocket Development Station safety programs for, 22:25059 (CONF-670445-, pp 18.25-32)
testing of, radiation exposures to off-site populations from, 21:6539
thermal behavior of, during atmospheric reentry, 21:30616 (NAA-SR-12355)
thermal radiation from, transfer to hydrogen propellant, 21:32001
thermionic converter for, power flattening in advanced in-core, 22:6073
thermionic, review of, 22:30284
transient response of light bulb concept, analytical model of, (T), 25:23368 (N-71-10404)
turbopump for, testing of optimum configuration of, 22:22789 (CONF-661204-(Vol.2), pp 80.1-11)
turbopump units for hydrogen-propelled, analysis of topping and bleed, 21:12549 (N-66-39615)
use for space propulsion systems, general summary of, 22:44878
use in space propulsion systems, 22:27527
use of advanced, with unmanned electric propelled spacecraft, 22:7875
use of clustered, for space applications, 21:40657
use of small, in space missions, 22:16256
uses in manned planetary missions, 25:28786
uses in manned planetary missions, comparison of expendable and reusable shuttles for, 25:28789
vortex breakdown in gaseous core, 22:244
weight of open-cycle gas core, effects of fuel loss rate on, (T), 24:52973 (N-70-25447)

Reactors, Settled-Bed
see Reactors, Pebble-Bed

REACTORS, SODIUM-GRAPHITE
see also Hallam Power Reactor
see also Sodium Reactor Experiment
design and development of, for large central station power plants, 21:1167 (NAA-SR-Memo-9758)
graphite core contamination in calandria type, by sodium, 21:17460 (NAA-SR-Memo-3697)
process tube creep bowing in 200- or 1000-MW, computer programs for study of, 21:20489 (NAA-SR-Memo-11328)

Reactors, Steam-Cooled
see Reactors, Superheating

REACTORS, SUPERHEATING
(Including those reactors with integral superheat only; for conventional superheaters, see Superheaters.)
see also Beloyarsk Power Reactor, Unit 1
see also Beloyarsk Power Reactor, Unit 2
see also Grosswelzheim Superheat Reactor
see also Gundremmingen Power Reactor
see also Leningrad Power Reactors
see also Puerto Rico Power Reactor
see also Sioux Falls Power Reactor
see also Steam-Generating Heavy-Water-Moderated Reactor
see also Supercritical Once-Thru Tube Reactor
see also VAK Power Reactor
see also Vallecitos Superheat Reactor
bibliography on foreign and domestic power, 23:19400 (BNWL-936(Vol.2))
blanket optimization of 1000 MW(e) fast breeder, alteration of 26-group-ABN-set for few-energy-group, (T), 22:44864
blowers for steam-cooled fast breeder power, design criteria for optimum steam, 23:17197
boiler for fast breeder power, performance of spray type, 23:28480
configuration for single-pass upward-flow cooling system of, description of submerged multiple bar-type fuel element, 22:42248(P)
configuration of 1080 MW(e) plutonium oxide (PuO_2)—uranium oxide (UO_2)-fueled fast, description of optimum, 22:50757
configuration of cylinder-enclosed shielded flood-free superheat region for, description of, 22:50756(P)
configuration of multi-loop integral, description of, 22:44847(P)
containment system design for 1000 MW(e) steam cooled, effects of maximum credible accident on, (T), 25:28738 (NP-18781)
control elements for, hydraulic drive system for, 25:60047
control elements of water for, effects of water temperature and density for, 23:47190(P)
control of, flow-rate variation through superheating region for, 21:15799(P)
control rod for steam cooled fast breeder, description of ejection preventing safety lock for, 25:54068(P)
control rod location and management for 1000 MW(e) fast breeder D-1, calculation of optimum, (T), 22:53274 (EURFNR-544)
control system for, description of external-core gas pressure regulated fluid for core enclosing, 22:37487(P)
control system for, description of hydraulically actuated and recorded, 22:46897(T) (EURFNR-497)
control system for, use of superheated turbine water for reactor core feedback, 22:18535(P)
control system for, use of turbine superheat steam for reactor core feedback, 22:18536(P)
control system of steam cooled fast, description of movable blanket fuel assemblies for, 24:18624(P)
coolant cross mixing in steam-cooled fast power, effects of natural turbulence on, (T), 23:17185
coolant for fast, heat transfer characteristics of, 24:18669
coolant for, suppression of radiolytic oxygen production by ammonia additive in, 23:37502(P)
coolant loop for, description of saturated steam, 22:16243(P)
coolant loss accident in, description of boiling region pressure-relief valve for, 22:37490(P)
coolant system for steam cooled, analog computer simulation of, 24:9101
cooling channel pressure and temperature curves for, PRAWDA computer program for, 23:17178(T) (EURFNR-582)
cooling circuit concepts for steam cooled fast breeder, 24:1971
cooling system for boiling, description of core extended superheat tube, 23:43107(P)
cooling system for coaxial dual core, 24:9103(P)
cooling system for dual-cycle, analysis of optimum mean temperature performance of, (T), 22:42192 (INR-903)
cooling system for dual-zone parallel-flow core, description of dual-stage turbine for, 23:15637(P)
cooling system for fast breeder power, flow diagram for primary and secondary, 23:40280(P)
cooling system for fast breeder, use of heavy water steam in, 22:32857
cooling system for fast, analog and digital computing methods for dynamics of, (T), 23:13573 (KFK-786)
cooling system for fast, flow diagram and design parameters for dual stream, 23:9143(P)
cooling system for gas- and water-cooled, description of, 22:37481(P)
cooling system for heavy water steam cooled fast breeder, 25:54073(P)
cooling system for power, flow diagram for dual flow heat exchanger and feedwater preheater for, 23:49559(P)
cooling system for power, steam decontamination treatment for, 23:2023(P)
cooling system for pressure vessel enclosed indirect cycle integral, 23:23906(P)
cooling system for pressurized water, description of separated flow path, 23:45073(P)
cooling system for pressurized-water- and steam-cooled, description of multi-zone core two phase, 22:37493(P)
cooling system for shutdown of, supercritical pressure, 22:37480(P)
cooling system for steam cooled power, thermal characteristics of optimum, 25:1881(P)
cooling system for steam cooled, computer program for calculating hot channel temperatures and factors for, 23:26039 (KFK-815)
cooling system for steam cooled, effects of mixing on hot-channel temperatures in, 23:26040 (KFK-848)
cooling system for steam cooled, startup procedures for, 25:37013(P)
cooling system for steam-cooled, with vapor generators and circulators enclosed by reactor vessel, 23:9151(P)
cooling system for, description of parallel and series connected fuel tubes for external boiling and internal superheat, 23:52341(P)
cooling system for, description of parallel multi-stage heat exchanger and turbine circuit, 22:25056(P)
cooling system for, description of spiral extended-length pipe, 22:10032(P)
cooling system for, description of thermal expansion-actuated fuel channel plug in, 23:9146(P)
cooling system for, MAINPROG digital computer program for thermodynamics of, 23:26034(T) (EURFNR-597)
cooling system of integral marine, description of once through forced flow, 23:43186(P)
cooling system of, description of pressure vessel enclosed overhead boiler and distribution header for, 23:40351(P)
cooling systems for fast breeder, THEDYBER program for computing thermodynamic performance of, 24:18694(T) (EURFNR-655)
cooling systems for fast, design aspects of, 24:18644
cooling systems for marine, configuration of hollow-tube surrounding core-enclosed integral upward-coolant-flow, 23:2100(P)
cooling systems for power, steam decontamination treatment for, 23:2022(P)
core channels in steam cooled, design criteria for hexagonal, (T), 25:23278
core configuration for efficient burnup in, description of water-cooled fuel shelves in, 22:10027(P)
core configuration for power heterogeneous, description of opposing-flow dual-region, 23:28422(P)
core configuration for, description of horizontal coolant and steam channels with overhead superheat chamber, 22:10034(P)
core configuration of water-cooled heavy water-moderated power, description of improved, 22:44837 (TRG-Report-1692)
core design for conceptual 800 to 1000 MW(e), 25:34199(T) (JPRS-53069, pp 107-17)
core design for steam cooled, with increased coolant flow in central region, 25:20697(P)
core for epithermal or fast, design parameters of, 24:11196(P)
core for fluid-fueled, description of circulating-fuel dual-region fuel-separated, 23:15605(P)
core for pressure vessel type heterogeneous, 24:38486(P)
core for water-moderated power, design parameters of, 23:19472(P)
core hot channel temperatures in fast, effects of cross coolant mixing on, 23:26035(T) (EURFNR-598)
core of steam cooled power, effects of external steam pipe failure on design parameters of, 24:20591
core physics measurements for heavy water-moderated, calculation of model, (E/T), 22:22840
core structural materials for, properties of carbon-base, 22:49815 (AECL-3069)
core-turbine for power, description of closed loop dual purpose, 23:23870(P)
cost analysis for small and medium power graphite moderated, 25:28720
critical experiments using urania fuel elements in, 21:31905 (CEND-161)
criticality of heavy water moderated thermal power, LILLY computer program for, 23:31152 (AEEW-M-834)
description of, 22:10031(P)
description of integral-type boiling outer region, 22:37484(P)
description of secondary coolant superheating, 22:14225(P)
description with steam superheating and water boiling in a single core, 22:14211(P)
design, 21:7999(P)

design and economics of 300- and 607-MW(e), 21:12142(R) (GEAP-5087)
design concept for 1000 MW(e) steam-cooled fast, with prestressed concrete vessel, 22:44816 (EURFNR-522)
design concept for steam cooled fast breeder, technical and economic evaluation of, 23:34897 (WASH-1090)
design concepts for steam cooled fast breeder, technical and economic evaluation of, 23:43087 (WASH-1088)
design for boiling reactors, 21:5721(P)
design for prevention of steam condensation in, 21:46960(P)
design of, 21:19441(P)
design of, 21:19444(P)
design of 1000 MW(e) fast breeder, 21:19393(T) (ORNL-tr-1541)
design of boiling, with effective steam separation, 21:21739(P)
design of improved, with simplified construction and control, 21:15716(P)
design of steam cooled fast breeder, economic and technical evaluation of, 23:26019 (KFK-918)
design of steam cooled, with both closed cycle and open cycle turbines, 23:47175(P)
design of steam-cooled, 21:19424(P)
design of steam-cooled, with concentric arrangement of steam system components, 21:21726(P)
design of three-region mixed-spectra, 21:15720(P)
design of two-region, 21:15719(P)
design of, heat transfer correlations for use in, 24:25197 (AEEW-R-678)
design parameters for 300 MW(e) German fast, analysis of, 22:35498
design parameters for conceptual pressure tube type heavy water moderated steam—water cooled, review of hydrodynamic and thermodynamic, 24:13522 (CISE-R-154)
design parameters for Germany 300 MW(e) prototype steam-cooled fast, description of, 23:11159 (CONF-680419-, pp 111-26)
design parameters for heavy water moderated boiling desalination and power, analysis of optimum economic, 25:28642
design parameters for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) fueled fast, effects of coolant properties on optimum, 23:23896 (EURFNR-615)
design parameters for steam-cooled fast breeder power, description of optimum, 22:37448 (NP-17521)
design parameters of 1000 MW(e) steam cooled, 25:28634 (NP-18782)
design to use leakage neutron flux, 21:27776(P)
design with secondary water coolant vaporized and superheated in once-through operation, 21:25694(P)
design with superheater inside pressure vessel, 21:23781(P)
development, 21:12141(R) (GEAP-4932)
development in Canada of 0.5 to 30 MW(e), economics for predicted 1976 to 1980, 23:37411
development in Germany of 300 MW(e) prototype fast breeder, review of, 25:12767 (BMBW-FBK-70-20)
development in U.K. of 200 and 300 MW(e) heavy water moderated boiling, comparison of economics for, 23:37414
development of fast breeder, comparison with advanced thermal and liquid sodium-cooled fast breeder reactor, 23:11176
development of fast breeder, operational and economic comparisons with gas cooled and liquid sodium cooled, 24:24797
development of fast, conference on systems, materials, and components for, 23:11155 (CONF-680419)
development of German steam cooled fast breeder, summary of experience gained by research and industrial groups in, 23:23862
development of steam cooled fast breeder, progress summary on, 24:41016
development of steam cooled fast breeder, technical and economic factors in, 25:39232
development of steam cooled, comparison of cost breakdowns for sodium cooled reactor development and, 23:23863
development of steam cooled, review of, 25:39225 (KFK-1370)
development program for German steam cooled, costs and problems in, 23:23863
dry-out margins for heavy water moderated boiling power, analysis of optimum economic, 23:37563 (RD/B/N-1285)
dynamic behavior of steam cooled, linear and nonlinear methods for analyzing, 23:26113 (KFK-759)
dynamics of direct-cycle fast, analog computer simulation of, 23:7386(T) (EURFNR-496)
economic comparison of fast breeder, with gas cooled and sodium cooled concepts, 24:4035
economics of fast breeder steam cooled, 23:23861
economics of steam cooled fast breeder, effects of steam system pressure on fuel cycle and power production, 23:34907
economics of steam cooled fast, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
economics of steam cooled fast, comparison with sodium cooled and helium cooled fast reactors of, 24:33356
fuel assemblies for, description of multiple concentric cylinder-enclosed internally-cooled annular-shaped, 22:42255(P)
fuel assemblies for, description of tubular metal-clad ceramic, 22:42259(P)
fuel assemblies of liquid metal cooled fast, bubble and vapor slug growth in, 23:49557 (RD/B/N-1418)
fuel cladding for Sweden steam-cooled fast breeder pressure testing of, 23:11237 (CONF-680419-, pp 291-300)
fuel cladding material for, selection of, 23:24795
fuel cladding rupture in, detection and location methods for, 23:17194 (CEA-R-3654)
fuel element assemblies for, COMIX 1, 2, and 3 computer programs for optimum hot channel temperatures with transverse coolant mixing in, 23:19496(T) (EURFNR-584)
fuel element cladding for fast breeder, effects of operating conditions and configuration on stress and temperature distribution in spiral spacer type, 23:33052(T) (EURFNR-607)
fuel element design and development for, 21:7944
fuel element for, design of grooved, 21:46927(P)
fuel element spacers for fast, analysis of optimum design parameters for spiral-spaced, 23:17186(T) (EURFNR-571)
fuel elements assemblies for steam cooled fast, description of spaced rod bundle, 25:28695(P)
fuel elements for boiling and, mathematic simulation of double-side-cooled tubular, (T), 23:9168
fuel elements for fast breeder steam cooled, coolant mixing and heat transfer characteristics of helical ribbed cylindrical, 23:23915
fuel elements for fast breeder steam cooled, design data for various types of, 23:23916
fuel elements for fast breeder steam cooled, effects of high temperatures and pressures on, 23:23916
fuel elements for fast breeder steam cooled, radiation effects and mechanical properties testing of, 23:23914
fuel elements for steam cooled fast breeder, economic effects of using inner ribbed, 23:34907
fuel elements for steam cooled fast, radiation testing of Inconel clad uranium oxide (UO$_2$), 25:23286
fuel elements for steam cooled, description of double zirconium clad uranium alloy, 24:26778(P)
fuel elements for steam cooled, Incoloy 800 spiral fin performance on, (E), 24:18654 (KFK-1028)
fuel elements for, description of, 22:20953(P)
fuel elements for, description of variable volume gas-filled recesses for heat flux control in, 22:39830(P)
fuel elements for, description of vertical-sheathed dual coaxial cylindrical varying-material, 22:42275(P)
fuel elements for, design of improved, 22:12516(P)
fuel elements for, design of prototype, 21:30282 (ACNP-67516)
fuel elements for, effects of vibration behavior on design of high power rod type, 23:31169
fuel elements for, stress measurements in simulated, 22:6046
fuel elements for, with prestressed coolant-pass tubes for improved fatigue life, 22:53483(P)
fuel elements of fast power, calculation of power for highly enriched rod type, (E/T), 24:4063
fuel elements of fast, analysis of burnup and fission product characteristics in, 24:46053
fuel elements of steam cooled fast, neutron radiation effects on Inconel 625 clad uranium oxide (UO$_2$) and Incoloy 800 clad plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), 24:7125
fuel rod cladding for fast breeder power, effects of spiral spacer configurations on stress and temperature distributions in, 23:31165 (KFK-805)
fuel rods for, description of water-cooled, multi-concentric tubes of enriched uranium for, 22:14226(P)
fuels and components for fast breeder steam cooled review of development of, 23:23861
fuels for epithermal or fast, description of thermal or epithermal neutron resonance absorber, 23:21494(P)
fuels for steam-cooled fast breeder power, effects of new plutonium 239-α data on breeding potential of, 23:17187(T) (EURFNR-586)
heat cycles calculations with and without resuperheating, 21:21710
heat exchangers for, heat transfer method from coolant to working medium in, 23:28538(P)
heat transfer and fluid flow calculations for steam, PRAWDA computer program for, 23:26112 (KFK-725)
heat transfer system for graphite-moderated carbon dioxide-cooled, description of, 22:22783(P)
heat transfer system for, description of twin-turbine triple-core-circulation, 22:14365(P)
kinetics of fast breeder, effects of Loeffler boiler characteristics on, 23:43099
loading machine for steam generating heavy water moderated pressure tube type, description of hydraulic actuated telescopic ram, 24:50133(P)
model development for fast power, description of nonlinear dynamic analog and digital computer, 23:13439 (AE-341)
neutron collision density spectrum of steam-cooled fast, KFK-SNEAK 26-group set for, (T), 23:9131(T) (EURFNR-533)
neutron cross sections for fast, combined MC^2 and THERMOS computer programs for thermal and epithermal, 23:47332 (CNM-R-2(Vol.3), pp 1446-59)
performance of 1000 MW(e) steam-cooled fast, effect of core design parameter variations on, (T), 22:35554
performance of, analysis of optimum economic and technical, 22:42282
physics characteristics in Japan for fast breeder, advantages and disadvantages of, 24:1980
physics characteristics of steam cooled, comparison of sodium cooled reactors with, (E/T), 24:29000
physics measurements for boiling heavy water-moderated plutonium-enriched natural uranium-fueled, 22:30239
physics measurements for fast, (E/T), 23:49547 (AEEW-R-560)
physics measurements for steam cooled fast, (E), 25:28659
physics measurements for uranium oxide(UO$_2$)—water lattices in, analysis of, (E), 22:22760
physics measurements for uranium-fueled fast power, use of SNEAK 3A assemblies for, 23:21464 (EURFNR-608)
physics measurements in 300 MW(e) fast, description of, 22:32905
physics of steam cooled fast, comparison of plutonium fuel cycle and thorium fuel cycle in, (T), 24:50148
physics parameters for fast breeder steam-cooled, effects of steam pressure and core configuration on optimum, 22:53265 (BNWL-SA-2063)
physics parameters of steam cooled fast, mockup measurements on, (E/T), 25:10258 (EURFNR-848)
pipe fittings for, testing of configurations and materials for steam coolant, 25:5980 (KFK-1183)
power conversion system for 50 MW(e) steam-cooled fast, description of Loeffler cycle, 23:11263 (CONF-680419-, pp 303-25)
power conversion system for liquid-metal cooled, description of multiple-loop, 23:11267(P)
pressure suppression system for, description of spray-cooled stone-packed, 23:9171(P)
pressure vessel for, description of reactor core and steam generator contained in, 22:33118(P)
pressure vessel for, description of tube and header arrangement for inclusion in, 22:33114(P)
pressure vessels for, description of tube and header arrangement for inclusion in, 22:33116(P)
pressure vessels for, description of tube and header arrangement for inclusion in, 22:33115(P)
pressure vessels for, tube and header arrangement for inclusion in, 22:33117(P)
pressure-relief valve for coolant loss accident in, description of boiling region, 22:37490(P)
reactivity coefficients of steam-cooled fast breeder, effect of design parameters on, (T), 22:35556
reactivity in fast breeder, effect of steam density at 3600, 2500, and 1200 psi on, 23:31158 (ORNL-TM-2582)
reactivity variations in fast, use of SNEAK-3A for effects of hydrogen concentration on, (E/T), 23:13542(T) (EURFNR-550)
reactivity variations with coolant density in steam-cooled fast, (T), 22:35557
safety cooling system for, description of superheat steam line rupture, 22:50759(P)
safety features of 1000 MW(e) steam cooled, description of, 25:28634 (NP-18782)
safety of 1000 MW(e) steam cooled, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
stability calculations for steam-cooled fast breeder, 23:21549(T) (EURFNR-583)
stability limits of steam-cooled, calculational models for determining, 22:39780 (KFK-656)
stability of 1000 MW(e) steam cooled, effect of nuclear data accuracy on, (T), 24:9133 (KFK-1045)
stability of steam cooled fast breeder, calculation of inherent, 25:3856 (KFK-851)
stability of steam cooled fast breeder, calculation of inherent, 25:31542(T) (EURFNR-813)
stability of steam cooled, effects of steam cycle on, 23:26113 (KFK-759)
stability of steam-cooled fast, effect of cooling cycle parameters on, (T), 22:35555
stability of steam-cooled fast, effects of cooling cycle design on, 22:7803 (EURFNR-421)
stability of, effects of open and closed coolant loops on, 23:4181(T) (EURFNR-495)
steam circulator for steam cooled, description of thermopresser, 25:25982(P)
steam cycle for steam cooled, THEDYBER program for calculating thermodynamics of, 23:52397 (KFK-824)
steam cycle for, efficiency of Loeffler, 23:17242
steam flow equalizer design for, 22:1834(P)
steam generating and superheating unit for liquid metal cooled, 24:7114(P)
steam generator design for, 21:21690(P)
steam generator for, design of high pressure, 24:9568(P)
steam generators in, core vessel arrangement for, 25:60147(P)
steam temperature calculation in boiling, 21:27734
structural materials for, corrosive effects of superheated steam in, 22:32775 (KFK-700(Pt. IX))
structural materials for, corrosive effects of superheated steam in, 22:53273(T) (EURFNR-472)
structural materials for, development of zirconium—copper—niobium alloys for, 21:39587(P)
superheater testing for Sioux Falls, 21:25613 (ACNP-6103)
superheaters for, description of method for regulating steam entry pressure to secondary, independent, 22:42441(P)
temperature measurements in, development of microwave techniques for, 25:48244 (HEDL-SA-122)
thermodynamic equations for steam cooled, computer program for solving, 23:26111 (KFK-716)
tubes for, description of variable composition metal, 22:33113(P)

REACTORS, SWEDEN
see also Barsebaeck Power Reactor, Unit 1
see also Oskarshamn Power Reactor
see also SLEEP Reactor
see also Swedish Reactors (R-0)
see also Swedish Reactors (R-2)
see also Swedish Reactors (R-3)
see also Swedish Reactors (R-4)
descriptions of, tabular, 22:14198
design of fast steam cooled breeder, 22:16199
development of 100 to 300 MW(e) boiling heavy water moderated and water moderated, comparison of economics for, 23:37401
development of heavy-water-moderated power, review of, 23:13438
development of power, 23:52321
development of power, comparison of water-cooled and heavy water-cooled, 23:9107
development of power, review of economics for, 23:23871
development of, review of, 24:47705
development of, review of, 24:47702
development of, review on, 21:13996
development program during 1970 to 1980 of, description of, 22:30172
development program for power, description of, 22:48690
equipment for, production of heavy, 23:40934

fuel burnup in heavy water moderated, comparison of computer programs for point and cell, 23:34943 (RISO-M-897)
fuel cladding for steam-cooled fast breeder, pressure testing of, 23:11237 (CONF-680419-, pp 291-300)
neutron detectors for power, development of self-powered high flux, 25:39160 (IAEA-119, 16p.)
safety liability of, description of legal aspects for, 22:44946
sites for power, comparison of Baltic Sea coast, 23:49514 (NP-18011)
uranium requirements for, to 1985, 25:26395 (CONF-700903-15)
REACTORS, SWIMMING-POOL
see also Air Force Engineering Test Reactor
see also Bulk Shielding Facility
see also Fontenay-aux-Roses Reactors (Triton)
see also Grenoble Reactors (Melusine)
see also Grenoble Reactors (Siloe)
see also LIDO
see also Livermore Pool-Type Reactor
see also Michigan Research Reactor
see also NRL Research Reactor
see also ORNL Research Reactor
see also Pennsylvania Research Reactor
see also Philippine Research Reactor
see also South African Research Reactor
see also Spanish Reactors (JEN-1)
see also Spanish Reactors (JEN-2)
accidents in, fission product behavior in, 21:27813
analysis of water in, for alkali metals, spectrochemical, 21:5834 (IA-1082, pp 77-202)
analysis of waters in, for boron and strontium, effects of alkali metals on spectral, 21:5834 (IA-1082, pp 77-202)
beam port γ irradiation facility for, design and performance of tangential, 24:31109
boiling in, analysis of, (T), 22:16272 (CEA-R-3326)
boiling in, use of neutron noise analysis for detection of pre-burnout, 23:23956 (CEA-R-3686)
control element for, with cobalt plates in square coaxial tubing, 23:43157(P)
control of, effects of reactivity transients on temperature, (T), 25:1942
control plates for, description of fuel element double-plate vertical-motion, 22:12137(P)
control rod experiments in University of Maryland, 21:38708
control rods for Avogadro RS1, neutron flux variations effects on, 21:46953
control system transfer functions, measurement using noise analysis, 21:30129 (CONF-660206, pp 439-53)
coolant flow in, description of forced downward, 22:3923(P)
coolant leakage from, effects of accidents on, 22:42365(T) (ORNL-tr-1904)
coolant level control system for, description of plate-plug valve hole in core container for, 22:14280(P)
coolant level control system for, design of servo-operated displacement float, 22:14282(P)
coolant loop for, description of downward flow continuous, 22:3915(P)
coolant loop for, description of downward flow with shutter guides, 22:3921(P)
coolant loop for, description of upward flow with shutter guides, 22:3920(P)
coolant loop for, design of separated two-system, 22:3922(P)
coolant-loss accidents in French, tabulation of data on, 21:27817
cooling system design for increased power, 21:17532(P)
cooling system for, description of core baffle regulated forced circulation, 23:37661(P)
cooling system for, description of rotating core, forced flow, 22:18579(P)
cooling system for, description of warm water stabilizing multi-layer, 22:14276(P)
cooling system for, efficiency of charcoal-impregnated traps for fission product removal from, 23:16003 (CEA-CONF-1114)
cooling system safety valve for, description of coolant loss-actuated water pressure-closed and gravity-opened, 22:53437(P)
cooling system with means for trapping failed fuel particles, description of, 25:10276(P)
cooling systems for, description of siphon breaker for, 22:7905(P)
core and support rods for, description of bridge-suspended float-elevated movable, 22:39888(P)
core configuration for coolant flow control in, description of, 22:3918(P)
core of pulsed research, description of uranium oxide (UO_2) fueled, 23:49589(P)
core shielding of, design of Zircaloy vessel for, 21:8113(P)
core structure design for, with improved coolant circulation and fuel element support rods, 23:43169
cores for, heating and cooling effects on partially submerged, 22:42365(T) (ORNL-tr-1904)
criticality calculations for, core and reflector temperature effects on, (T), 22:39885
description of 1 MW(t) JRR-4, 22:1858 (JAERI-1141)
description of RG-1, for geological research, 21:12249
design and operation of Pakistan Institute of Nuclear Science, 25:8449 (CONF-691008-18)
design for prevention of highly activated water reaching surface, 21:23743(P)
design for reduced radioactivity at pool surface, 21:19493(P)
design of, 21:25733(P)
design of Northrop, 21:14084 (NSL-64-187-1964)
design of pressurized-water research, with dual coolant circuits, 21:10212(P)
design of, for pulsed and steady state operation, 21:32027(P)
design of, proposed standard for, 21:19486
design of, standards for, 25:31637
design of, with enclosed core to prevent coolant boiling, 21:8114(P)
design parameters for, with independent cooling system, 25:10280(P)
design with horizontal pool partition, 21:19492(P)
equipment for underwater examination of irradiated articles in, design of x-ray, 23:9809(P)
excursions in, model for reactivity effect of subcooled boiling during, (T), 24:40932 (RT/FI-(69)51)
experimental cryogenic facility for producing intense low-energy neutron beams, 22:47037
experimental facilities for high flux, description of pressure vessel enclosed core center access, 22:14279(P)
experimental facilities for, description of core-enclosing vertically-rising spiral pipe, 22:37548(P)
experimental facilities for, description of fluid-tight rotating joint for multiple conduits in cryogenic, 22:25118(P)
experimental facilities for, description of flux-penetrating multiple sample rotary shaft, 23:6027(P)
experimental facilities for, description of stopper-sealed tube-access, 22:25120(P)
fission product trapping system for, efficiency of impregnated charcoal traps for, 23:29059
fuel element inspection in, description of a watertight radiological transmitter and receiver for underwater, 22:25119(P)
fuel element positioning device for, design of, 22:1905(P)
fuel element radiographic inspection in, remote method for, 23:37619(P)
fuel elements for pulsed, description of sealed cylindrical graphite reflected nitrogen insulated, 23:23982(P)
fuel elements for, description of pivoting-hinge-supported multiple parallel sheathed plate-type, 23:9219(P)
fuel elements for, fabrication methods for, 22:12486
gamma fluxes in, design of detector for, 21:12677(P)
gamma spectra measurement in, spectrometer design and calibration for, 24:14286 (CEA-R-3822)
history of Project Aquarium (SAPHIR) for 1955 Geneva Conference, 22:42363 (ORNL-TM-2254)
hot cells for, operations experience with French, 24:38591 (CEA-CONF-1532)
irradiation facilities for Saphir, design of, 24:36950(R) (EIR-171)
irradiation facilities for, description of, 22:3914
irradiation facility drive mechanism trolley for, design of two-directional, 22:3916(P)
irradiation facility for, design and performance of multi-sample, 21:38676
irradiation loops in, design of equipment for inspection of, 21:43123(P)
liner installation for, design and testing of stainless steel, 21:35731
moderator voids in, effects on reactivity, 21:14000
monitoring at environs of 2-MW, use of packaged film for, 22:45548
neutron flux in, use of activation gas in-pile loops for monitoring thermal, 21:21757 (CONF-651154-5)
neutron fluxes in, design of monitor for, 21:12677(P)
neutron leakage spectrum from, (E), 22:5828
neutron measurement channels in, method for testing ionization chamber response in, 22:42383
neutron radiography in pulsed, development of facility for, 25:48763 (CONF-710402-(Vol.3), pp IV.86-93)
neutron spectra in reflector of, effects of metal slabs on perturbations in fast, (E/T), 25:37057 (CEA-R-3799)
neutron spectrum for, quadruple foil method for measurement of intermediate, 25:57126
neutron spectrum in Democritos, calculation of epithermal and fast, 24:4101
noise measurement in, using boron trifluoride counters and multiscaler analyzers, (E/T), 21:8059
operation of, analysis of safety limits for, 21:35727
performance for activation analysis and isotope production, 24:4409 (IEA-158)
pool liner for, installation and testing of stainless-steel, 22:24991
pool linings for, performance experience with, 24:2025 (DOCKET-50128-13)
pool water for, separation of cesium from, 25:32036 (CEA-N-1419, pp 91-113)
power burst analysis with loss of core coolant flow in, reactivity feedback model for, 22:14256 (CEA-R-3202)
power bursts in, calculation of, 21:27818
power excursion tests for, results of, 21:30265(T) (ANL-Trans-468)
power transient effects on thermal and hydraulic phenomena, 21:30264(T) (ANL-Trans-467)
rabbit system for, description of hydraulic, 22:47036(P)
radiation dose to personnel hauling underwater γ sources in, 21:22425
radiation monitoring equipment for, 21:45345(R) (IDO-17234)
radiation target cans for, design parameters of liquid sodium Odile, 24:43809 (CEA-N-1317)
radiation target for use at 20°K, design of in-core, 22:39003
radioisotope production in, target containers for, 21:45321
reactivity of, effects of inserted irradiation devices on, 21:14083 (NP-16432)
reactivity of, effects of moderator voids on, 21:14000
remote handling equipment for, design parameters for startup radiation detector of, 25:28773
remote-handling tool for, description of level-actuated gripper with extension rod, 22:37547(P)
safety of, use of CABRI for study of, 21:46951
safety studies for, CABRIOLE heat transfer loop for thermal transient, 22:12136
shield arrangement for, design of dual light water-hydrocarbon, 21:8112(P)
shielding experiments in German FRG, 21:13964 (EUR-2960.d)
shielding for, calculation for thermal neutron behavior in air ducts in water, (E/T), 23:13466 (AERE-R-5773(Vol.3), pp 710-35)
shielding in University of Wisconsin research, comparison of Plexiglas plate and water jet diffusers for nitrogen-16, 24:22464
shielding of, multiple-flux-component method for calculation of neutron flux in empty bent air ducts in water, (E/T), 23:13464 (AERE-R-5773(Vol.3), pp 627-56)
shielding of, ray-analysis method for calculation of neutron and gamma streaming through cylindrical air ducts in water, (E/T), 23:13467 (AERE-R-5773(Vol.3), pp 738-54)
shielding water reservoirs for, description of sealed vertical sliding gate for level control in, 22:30342(P)
siphon breaker for, description of coolant flow regulated, 22:14284(P)
source transport in, description of hydraulic-actuated rabbit system for neutron, 22:53429(P)
startup procedure for, description of warm water level increase in, 22:14277(P)
testing in WWR-S, design of facilities for water corrosion, 21:27812
thermal column of 1 MW AMF, modification of, 24:43818
transfer function measurements in Thor, noise analysis method for, 21:30200
use as γ irradiation facility during shutdown, description of system for, 22:39889(P)
use as neutron source in nondestructive testing of Apollo ordnance devices, 24:29470
use of core of, as neutron source, 21:12264
vessel for core of, description of caisson with vertical coolant channels for, 22:3919(P)
REACTORS, TEST
see also Aberdeen Fast Pulse Reactor Facility
see also Advanced Test Reactor
see also Air Force Engineering Test Reactor
see also Babcock and Wilcox Test Reactor
see also Engineering Test Reactor
see also General Electric Test Reactor
see also Hanford Test Reactor
see also Irradiation Facilities
see also Japanese Materials Testing Reactor
see also Low Intensity Test Reactor
see also Lynchburg Test Reactor
see also Materials Testing Reactor
see also NBS Research Reactor
see also PEC Fast Test Reactor
see also Petten Test Reactor
see also Saclay Reactors (Osiris)
see also Savannah River Components Test Reactor
construction and developmental status of U.S., compilation on, 21:13989 (TID-8200(15th Rev.))
control of DIORIT Reactor, performance of on-line digital computer for, 23:40406
control rod drive for MTR-type, description of surge tank pressure valve release sequence for, 22:10071(P)
control system for, description of direct digital computer, 23:13448
control systems for, performance of moveable-detector, (T), 25:23344 (UJV-2375-RPA)
core handling equipment for liquid metal cooled fast, description of, 25:54216(P)
cover gas system for ESSOR, cryogenic purification methods for, 23:7403
data on world-wide shield-testing, 23:6022 (ORNL-RSIC-24)
descriptions of U. S., tables, 21:38467 (TID-8200(16th Rev.))
design of fast, for fuel elements, 21:32028(P)
design of Russian BOR fast, 21:21655
design of sodium cooled fast, 24:47911(P)
design of turbine-generator nuclear space, 21:4403
design parameters for conceptual 118 MW(t) liquid sodium cooled plutonium carbide (PuC)—uranium carbide (UC) fueled fast, 24:40902 (TRG-Report-1911, pp 545-63)
design with movable core to minimize refueling time, 24:47914(P)
development of high flux, review of trends in, 23:28423
development of high flux, review of trends in, 23:28566
development of PEC, description of, 23:4177
Doppler effect calculations for fast sodium cooled, perturbation theory and programming tecchniques for optimizing, 23:40386 (CONF-690401-, pp 256-96)
experimental facilities in, design and operation of fast neutron, 24:40892 (TRG-Report-1911)
filters for DIORIT, performance in exhaust air activated charcoal, 24:29047 (CONF-690540-, pp 126-40)
fuel cladding failure in DIORIT, decontamination of loading machine and exhaust filter removal following, 23:28552 (EIR-148)
fuel element failure in DIORIT, decontamination procedures following, 24:20598 (EIR-150(Pt.1))
fuel element failure in DIORIT, decontamination procedures following, 24:20599 (EIR-150(Pt.2))
fuel element from helium cooled circuit of DIORIT, disassembly of damaged, 22:3927 (EIR-124)
fuel element rupture facility of, heat transfer calculations for, 21:19458(R) (BNWL-300)
fuel element solubility in nitric acid, effects of mercury catalyst on MTR-type, 21:6000 (RT/CHI-(66)17)
fuel elements for MTR-type, description of fabrication of, 22:18568
fuel elements for, development during 1968 of, 23:33083(R) (IN-1228)
fuel elements for, effects of fabrication techniques on boron dispersion in aluminum alloy—uranium alloy plate type, 23:33118 (IN-1228, pp 20-73)
fuel for thermal, use of Phoenix, 21:38751
fuel performance for fast, computer analysis of, 21:38698
fuel sample irradiation testing in thermal, simulation of fast reactor spectra for, 25:1926 (N-70-27514)
fuel utilization in, model for optimum, 24:38614

  furnace for materials testing, development and operation of 1600°C electric, 23:9207
  heat transfer mechanisms in water-cooled, research program on, 23:9640 (IN-1267)
  kinetics of DIORIT, calculation methods for, (T), 22:44919 (EIR-119)
  list of U. S., complete, 23:13416 (TID-8200(19th Rev.))
  list of U. S., complete, 24:52746 (TID-8200(22nd Rev.))
  list of U.S., complete, 25:53920 (TID-8200(24th Rev.))
  list of worldwide, IAEA, 25:12824 (STI/PUB-248)
  neutron fission rate monitors for, calibration procedure for automatic gross beta counting of uranium-aluminum, 23:24426 (IN-1218, pp 181-316)
  neutron flux density in converted thermal, simple rules for estimating fast, 23:9214
  neutron spectrum-hardening in thermal, description of filter for, 22:44907
  operation at National Reactor Testing Station, management control system for, 25:51189
  operations for, USAEC licensing requirements for, 23:37423
  operators for, performance analysis and performance criteria for, 23:9121 (NYO-3288-10)
  personnel for, training program for replacement operating, 25:51190
  power level control of, design of continuous motor-operated rheostat system for, 21:8640(R) (IDO-17211)
  rabbit system for, description of reversing hydraulic double-wall tube, 24:11284(P)
  radiation target cans for DIORIT, description of, 24:41002 (DP-Report-337)
  radioactive effluents of DIORIT, measurement of stack released argon-41, 24:29045 (CONF-690540-, pp 87-96)
  safety of, bibliography on, 23:13525 (ORNL-NSIC-54)
  safety-related occurrences in, February-March 1969 summary of, 23:33076
  startup parameter of, time-to-power as, 21:15670
  summary of European, 22:20920
  test facilities for, neutronics and thermal hydraulics design parameters for steam cooled fast module for increasing neutron fluxes in, 23:40385 (BNWL-998)
  uses of high neutron flux, 21:42817 (PEL-146)
REACTORS, THERMAL
    see also Argonne Research Reactor
    see also BEPO
    see also Brookhaven Reactor
    see also Bulk Shielding Facility
    see also Los Alamos Power Reactor Experiments
    see also Neutron Production Reactor
    see also NPD Reactor
    see also NRX Reactor
    see also Whiteshell Reactor No. 1
    see also ZEEP
    see also ZOE Reactor
  configuration of rocket, 22:39865 (N-68-19830)
  construction of, determination of optimum schedule for national, 24:38401 (CEA-R-4019)
  control elements for water moderated, effectiveness of reflector enclosed rotating cylinder shaped, (E/T), 24:5520
  control elements for, description of variable reflector area, 22:7871(P)
  control elements for, description of vertical axis rotating external plates for, 22:20867(P)
  control method of, 21:27780(P)
  control of, using two-phase flow control rods, 22:12530
  control rod evaluation for, 21:30091(R) (ANL-7210)
  control system for, description of gravity—coolant flow vertically driven absorber spheres for, 22:20880(P)
  coolant failure in water-cooled, chemical reactions from, 21:46837 (ANL-7325, pp 136-78)
  coolant loss accident in, calculation of metal—water reactions and core heating during, 21:46837 (ANL-7325, pp 136-78)
  cooling system for power, surge and water hammer problems in condenser, 25:57036
  cooling systems for, description of RIBD code for calculating fission product inventory in, 23:37590
  cooling systems for, statistical analysis of hot-channel factors for, 23:21476
  core for, physics measurements for enriched fuel test cells of, 24:50194
  core neutron spectra measurements in, design and performance of proton-recoil proportional detector with pulse shape discrimination for, 22:33659 (IN-1054)
  core structure for, computer analysis of fuel burnup in optimum, (E/T), 22:22868
  critical mass variation with nonuniform variation of fuel mass, 21:12184
  criticality calculations for low-enriched, Monte Carlo, 22:5992
  criticality calculations for, development of Monte Carlo code for, 21:34112 (KAPL-P-3344)
  criticality calculations for, use of 05R Monte Carlo neutron transport code for, 22:33005
  criticality calculations for, use of Monte Carlo codes for, 22:39902 (KAPL-P-3432)
  criticality calculations for, use of Monte Carlo method for, 21:38547
  criticality calculations for, using slightly enriched uranium, 21:46643(R) (ORNL-4134)
  criticality of superheating heavy water moderated power, LILLY computer program for, 23:31152 (AEEW-M-834)
  criticality of, comparison of diffusion and transport theory calculations for, 24:7168(R) (BNWL-1240)
  description of beryllium reflected minimum critical mass, 22:32998
  design and operation of, role of radiation measurements in, 21:21678
  design for combination fast and, 21:23676(P)
  design for seed-blanket type, 21:25700(P)
  design of compact, 21:32018
  design of heavy water-moderated organic-cooled, THREDES computer program for, 23:21448 (AI-CE-Memo-11)
  design of power, use of neutron data for, 22:5994
  design of, effects of thermal neutron inelastic scattering characteristics on, (E/T), 24:50244 (IN-1427)
  design of, use of MUFT-code for fast cross section parameters for, 21:38546
  design parameters for U.S.S.R., tabular collection of, 23:26095
  design parameters for, integrated physics analysis for optimum, (T), 22:32769 (KAPL-P-3423)
  design parameters in Japan for advanced 165 MW(e) prototype heavy water-moderated water-cooled boiling, 23:13420
  design with thermionic converter for power range from 5 to 50 kW(e), 21:30241
  development for thorium—uranium cycle, 21:30207
  development in Belgium during 1968, 24:9079(R) (NP-18052)
  development in Belgium during 1969, 25:39226(R) (NP-18809)
  development in Belgium during 1969, 25:39228 (NP-18809, pp 2.1-14)
  development in Japan of boiling water-cooled heavy water-moderated advanced, review of, 23:28421
  development in Japan of conceptual 165 MW(e) Advanced Thermal Reactor, review of, 23:43091
  development in Japan of, review of, 23:31151
  development in Japan, review of 1970, 25:21236
  development of advanced, comparison with liquid sodium-cooled and steam-cooled fast breeder reactor, 23:11176
  development of breeder, effects on uranium economics of, 23:23917
  development of French, long term program for, 22:1803
  development of high flux research, 25:18188
  development of high flux research and test, review of trends in, 23:28566
  development of high-temperature, in Germany, 21:44828 (EUR-3493.e)
  development of liquid fueled breeder, technical and economic aspects of, 25:23245
  development of power, 25:25963
  development of power, effects of uranium supplies on economic, 23:23917
  development of power, review of, 25:5878(T) (UCRL-Trans-10495)
  development of U. S. advanced breeder, analysis of 1968 to 1974, 23:15567
  development program in Japan of heavy water-moderated boiling water-cooled 200 MW(e), description of, 22:30243
  Doppler coefficient measurements in coupled fast-thermal, pile oscillator method for, (E/T), 25:37135 (KFK-1350)
  Doppler reactivity effect in uranium fueled, calculation and measurement of, 24:50086 (CEA-R-4035)
  dynamics of sodium-cooled, use of analog computer for simulation of, 22:35481
  dynamics of, comparison of methods for analysis of, (E/T), 25:10174 (LFEN-109-B)
  economic comparison with fast reactors, 22:1797
  economics for uranium conservation, 21:21667
  economics of, 21:27721
  economics of German water-moderated power, 22:48709
  economics of mixed fast-thermal and, comparison of, 22:18482
  economics of plutonium and uranium fuels in, 21:44870
  economics of power, neutron data requirements for analysis of, (T), 23:6004
  economics of power, review of, 25:28712
  economics of self-sustaining mixed fast and thermal systems, (T), 25:3888 (DP-Report-581)
  excursion calculations for, use of quasistatic method for space-dependent, 23:28609
  excursions in large modular cores of fast-, space-dependent effects on, 21:40613
  fast fission factor for, Monte Carlo method and multigroup procedure for calculation of, (T), 22:42402
  fission factor in graphite and heavy water lattices in, multigroup calculation of fast, 23:9227 (CEA-R-3549)
  fission product buildup in, determination of characteristic parameters of, 22:16105 (AECL-2497)
  fission product decay chain analysis in, multigroup constants for, (T), 25:1953 (JAERI-1194)
  fission product production cross sections and resonance integrals for, data compilation on A = 76 to 165, 24:33136 (AECL-3037(Pt.1))
  fission product removal by pulse method for, description of, 22:20966
  fuel assemblies for, description of thorium oxide (ThO$_2$)-blanket and uranium oxide (UO$_2$)-seed, 22:42269(P)
  fuel burnup in graphite moderated, manipulation of fission product data for calculation of, 25:12776 (JUL-678-RG)
  fuel burnup in uranium-fueled water-moderated, computer program for measurement of, 22:25134 (PRNC-117)
  fuel burnup in, analysis of optimum calculations for, (T), 22:35533
  fuel burnup in, CAROL-A code for analysis of, 24:50147
  fuel burnup in, computer program for analysis of uranium, 22:30346 (RISO-M-684)
  fuel burnup in, Czechoslovak methods for calculation of, 22:22731
  fuel burnup in, French studies on, (E/T), 22:22732
  fuel burnup in, methods for calculation of, 24:52988
  fuel burnup in, review of European American Committee on Reactor Physics studies on, 22:22880
  fuel burnup in, review of Japanese studies on, 22:22735
  fuel burnup in, review of studies on, (E/T), 22:22711 (STI/PUB-172)
  fuel burnup in, review of U.S. studies on, 22:22733
  fuel burnup in, Swedish methods for calculation of, 22:22736
  fuel burnup simulation for, description of computer program for, 22:50764
  fuel cans for, properties of zirconium alloys for, 25:27213
  fuel cycle for breeder, economic advantages for uranium-thorium, 22:42156 (AECL-3081)
  fuel cycle for fast breeder and converter, calculation of plutonium, 25:26068
  fuel cycle for, economics of, 24:18662
  fuel cycle for, effects of plutonium utilization on economics of, 24:29022
  fuel cycle for, evaluation of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), 24:33311
  fuel cycle for, operation aspects of plutonium, 25:18143
  fuel cycle for, technical and economic aspects of, 23:21580
  fuel cycle in U. K. of 1000 MW(e) water-cooled and gas-cooled power, analysis of performance for, 22:46909 (NP-17599, pp 30-40)
  fuel cycle management for power, mathematical model analysis of, (T), 24:18769
  fuel cycles for advanced, economic analysis of use of, 22:42198(T) (NSJ-tr-114)
  fuel cycles for breeder, economics of thorium—uranium-233, (T), 25:20746 (JUL-644-RG)
  fuel cycles for Japanese, 21:25675
  fuel cycles for, operation aspects of plutonium recycle in, 25:41444 (CONF-700956-3)
  fuel cycles for, problems and economics of plutonium, 25:54285 (A/CONF.49/P-496)
  fuel cycles for, use of thoria—urania, 21:2835
  fuel development program for, operations during July to September 1967 for plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$)—zirconium oxide (ZrO$_2$), 23:2031(R) (NUMEC-3505-33)
  fuel efficiency criterion for, 21:12190
  fuel element cycle management for, comparison of crossed and parallel arranged cores, (T), 24:38541 (EIR-182)
  fuel element meltdown in, safety aspects of clad-urania, 21:7967
  fuel element testing in, simulation of fast reactor conditions for, (T), 25:44165
  fuel elements for power, analysis of poisoning due to fission products in recycle, 22:6018
  fuel elements for pressure tube heavy water-moderated, feasibility studies for use of plutonium, 22:39776 (JAERI-1154)
  fuel elements for, fabrication of plutonium containing, 24:24854
  fuel elements for, problems in development of, 24:52921
  fuel for homogeneous, description of fused oxyceramic, 24:16203(P)
  fuel for power, nuclear effective temperature for resonance absorbers in, (T), 24:33272
  fuel for test, use of Phoenix, 21:38751
  fuel for, development of plutonium, 21:46895
  fuel management for, calculational methods for optimum, (E/T), 22:22759
  fuel recycle in power, economics for plutonium, 24:13554
  fuel recycle in water cooled, economics of plutonium, (T), 25:15375 (CONF-691114-6)
  fuel recycle in, Belgian program for plutonium, 23:37503 (CONF-690609-6)
  fuel recycle in, development program for plutonium, 24:24851
  fuel recycle in, development program for plutonium, 24:24852
  fuel recycle in, development programs for plutonium, 24:24853
  fuel recycle in, Dresden I program for plutonium, 24:24729
  fuel recycle in, economics of plutonium, 24:24849
  fuel recycle in, effects of uranium supply economics on plutonium, 24:24839
  fuel recycle in, physics aspects of plutonium, (E/T), 25:12796 (EURAEC-2145)
  fuel recycle in, physics aspects of plutonium-enriched, 23:17247 (BNWL-SA-2192)
  fuel recycle in, technical and economic evaluation of plutonium, 24:47725
  fuel recycling in, development and testing for plutonium, 22:19649(R) (NUMEC-3505-30)
  fuel recycling in, economics of plutonium, 23:10192
  fuel reprocessing for, development of fluoride volatility processes for, 23:19820 (CONF-680610-, pp 65-78)
  fuel reprocessing for, economics of, 21:19401
  fuel rods for power, development of molybdenum-coated uranium oxide (UO$_2$) thermionic emitter-, 23:4216 (BMwF-FBK-68-25)
  fuel supply from integrated fast breeder reactor, economics of plutonium, 24:11137
  fuel use in power, comparison with fast reactors of, 23:52370(T) (JPRS-48330, pp 18-38)
  fuels and moderators for high-temperature, performance of ceramic, 22:4880
  fuels for power, effects of burnup on isotopic composition of plutonium bearing, 25:54093 (A/CONF.49/P-610)
  fuels for power, physics calculations for plutonium and plutonium—uranium alloy, (E/T), 25:18135 (EUR-4477)
  fuels for water cooled and gas cooled, fabrication and reprocessing facilities in U. S. for, 25:39130 (A/CONF.49/P-62)
  fuels for water cooled, development in Japan of plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), 25:54094 (A/CONF.49/P-821)
  fuels for water-cooled power, review of physics data for use of plutonium in, 22:37407 (BNWL-801)
  fuels for, analysis of fission products for burnup of, 24:52926
  fuels for, burnup of aluminum—plutonium alloy, plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$), and uranium oxide (UO$_2$), 25:41623
  fuels for, development and processing plutonium-base, 21:30290

fuels for, development of beryllium oxide—actinide oxide, 23:8352
fuels for, preparation and properties of, 23:48571(R) (EIR-146)
fuels for, recycling of plutonium, 24:1022
fuels for, safety aspects of use of recycle plutonium as, 22:53386
fuels for, use of plutonium, 23:40373
fuels for, use of plutonium, 21:7984
fuels for, utilization of plutonium, 25:60249
fuels for, utilization of plutonium, 24:1998 (EUR-4238)
fuels for, utilization of plutonium in, 25:54126 (A/CONF.49/P-185)
fuels of, problems with recycle of plutonium from, 24:18663
kinetic equations for, description of reaction-coefficient method for calculating heterogeneity effects in, 23:52461 (KFK-743)
kinetics equations for coupled-core fast-, exponential approximation for solution to, 21:40612
kinetics of coupled core fast, calculation of linear time variation, (T), 25:34328
kinetics of coupled fast-, description of model for space-dependent, 22:33086 (ANL-7310, pp 431-511)
kinetics of point models of, equation solutions for, 21:35577 (KAPL-P-3341)
kinetics of, analysis of few rod experiment programs for, (E/T), 24:36002 (EUR-4470)
kinetics of, analysis using Lanczos' linear operator perturbation, 21:19386 (RT/FI-(66)21)
kinetics of, BMC-1 computer program for, 24:50213 (BNWL-1433)
kinetics of, comparison of methods for analysis of, (E/T), 25:10174 (LFEN-109-B)
kinetics of, comparison with fast reactors of, 24:47825
kinetics of, effects of gamma and neutron spectra on, (E/T), 21:7915
kinetics of, effects of recycle plutonium particle size on, 23:37540
kinetics of, one dimensional benchmark calculations for, (T), 25:41610
materials testing for, radiation damage calculation for use of fast reactors in, 23:34036
moderator voids in, measurement of effects of, 22:39778 (JUL-518-RG)
moderators for high temperature breeder, radiation effects on beryllium oxide, 22:46901 (JUL-528-RW)
neutron absorption cross sections for fission products in, computer program for calculating, 22:20404 (CONF-680307-16)
neutron beams from, use in physics research, 21:17278
neutron collision probabilities in gas-cooled, 21:25743
neutron cross-section calculations using space- and energy-dependent fluxes, method for, (T), 23:3902
neutron density distribution in multi-layer cells of ANNA research reactor, method for measuring, 21:21788
neutron density distribution in, two-region spectrum calculations of, 23:21555
neutron diffusion coefficients for, use of monatomic gas model for predicting thermal, 24:7285
neutron diffusion equations for, use of discontinuous overlapping groups without staggered discontinuities for solution to, 23:4444
neutron fission rate monitors for, calibration procedure for automatic gross beta counting of uranium-aluminum, 23:24426 (IN-1218, pp 181-316)
neutron fluctuations in large, use of auto-spectral density technique for determination of, 22:32878
neutron fluctuations in, Pal-Bell equation analysis of Rossi-α data on, 23:31227
neutron flux calculation for, use of energy dependent diffusion equations for, 21:38431 (AECL-2708)
neutron flux calculations for, iterative techniques for time-energy dependent, 23:33113
neutron flux density in converted test, simple rules for estimating fast, 23:9214
neutron flux distribution in heterogeneous, computer program for, 25:3925 (DP-1238)
neutron flux distribution in natural uranium fueled, rhodium threshold detector measurement of fast, (E/T), 25:23412
neutron flux distribution in slab type, solution of Boltzmann equation in P/sub n/ approximation for epithermal and thermal, (T), 24:24911
neutron flux distribution in, solution of two dimensional few group diffusion equations for, 24:11172
neutron flux for heterogeneous, configuration of moderator for flat thermal, (T), 25:25969
neutron flux in, two overlapping group transport approximation for, (T), 24:33516
neutron flux length in bare, second order correction to, 21:15766 (N-66-19220)
neutron flux mapping in, performance of in-core regenerative detectors for, (E), 25:20711 (WHAN-FR-37)
neutron flux measurements in, foil detector perturbation effects on thermal, (E/T), 25:41399
neutron flux spectra measurements in, multiple foil activation iterative method for, (E/T), 23:19560
neutron flux synthesis in, use of Green's function in two-dimensional group diffusion equations for, 22:14318
neutron group constants for plutonium recycle, 22:24955 (EUR-3891)
neutron kinetics in, system-modeling characteristics of discrete sequential estimator for studying, 21:34172
neutron lifetime and delayed neutron fraction in thermionic, prompt, (T), 25:20825
neutron multiplication factor calculations for high-leakage, core and reflector temperature effects on, (T), 22:39885
neutron multiplication factors for, reaction rate and cross section techniques for computing, 21:35543 (AEEW-R-512)
neutron reaction rates in, statistical estimators for Monte Carlo calculations, (T), 21:11955
neutron resonance absorption in, description of RABBLE and RABZPR codes for calculating, 22:33086 (ANL-7310, pp 431-511)
neutron resonance reactions in, effects of heterogeneity in periodic lattice cell structures on, (T), 23:52447(T) (EURFNR-613)
neutron resonance reactions in, RESAB program system for, 25:48330 (RISO-M-1378)
neutron scattering in plate-type water-moderated, calculations of anisotropic effects in, 24:7305
neutron scattering in, effects on reactor operation, (T), 21:13994
neutron slowing down and thermalization in, pulsed neutron method determinations of, (E/T), 25:51235 (JAERI-13777)
neutron slowing down in, calculational models for, (T), 25:18227 (EURFNR-864)
neutron spectra in water moderated, buckling calculations from, 23:4411
neutron spectra in water-moderated, computer codes for calculation of, 22:46904(T) (N-68-24779)
neutron spectra in, determination using helium-3 and lithium-6 semiconductor spectrometers, 21:5679 (AERE-R-5183)
neutron spectra in, review of methods for calculating, 22:29865
neutron spectrum-hardening in test, description of filter for, 22:44907
neutron temperature in, performance of fission track detectors for monitoring, 25:34410
neutron transport in nonmultiplying, pseudo modes of, 24:33533
neutronics parameters for, review of experimental methods for, 23:28626
nuclear data requirements for design and operation of, 22:18100
operation of power, XEDYPNY computer program for xenon 135 override problems in, 23:21467 (RISO-M-786)
performance of 1000 MW(e) fast-coupled, effects of fuel management on, 21:25661
physics analysis during April to June 1970, 24:46122(R) (BNWL-1381-2)
physics calculations for fast-thermal, model for, 21:23711(R) (BNWL-340)
physics calculations for, comparison of ENDF/B-I and ENDF/B-II data for, 25:57019 (CONF-710302-(Vol.2), pp 1065-85)
physics calculations for, PINOCCHIO computer code for, 23:26108 (EUR-3940-1, pp 3-25)
physics characteristics of plutonium fueled, summary of, 22:32960 (ANL-7310, pp 31-135)
physics measurements for, calculational methods for, (E/T), 22:22759
physics measurements for, comparison of heterogeneous methods with ECO facility, (E/T), 22:22841
physics measurements for, comparison of Theta 1, Theta 2, Theta 3, and trapezoidal integration calculations of, (T), 23:15708 (BNWL-940)
physics measurements for, pseudo random source excitation technique for impulse response, (T), 23:47318 (CNM-R-2(Vol.3), pp 1589-1604)
physics of, development activities for July to Sept. 1967, 22:27480(R) (BNWL-634)
physics parameter calculations for RB-3 fast-, 22:50871
physics parameter experiments for, systematic evaluation of benchmark, 24:7229
physics parameters of, FORE-II thermal hydraulics-point kinetics computer code for calculation of, 21:44835 (GEAP-5273)
physics studies from April to June 1969 on, summary of, 23:47233(R) (BNWL-1150)
physics studies on, summary of January to March 1969, 23:33080(R) (BNWL-1053)
physics studies on, summary of January to March 1970, 24:31041(R) (BNWL-1381-1)
physics studies on, summary of July to September 1969, 24:7168(R) (BNWL-1240)
physics studies on, summary of Oct. to Dec. 1968, 23:17246(R) (BNWL-985)
physics studies on, summary of October to December 1969, 24:18697(R) (BNWL-1304)
plutonium production by power, effects on fuel economics of predicted, 23:23921
plutonium production for fast reactor fuel in, 22:12040
power cost reduction in, by use of uranium-233 enriched fuels, 23:2038
power cycles for, thermodynamic analysis of optimum, (T), 25:20596
power distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2) lattices in, accuracy of methods for calculation of, (E/T), 24:16169
power flattening classification for single-channel and N-channel analysis in, description of, 22:35713
power flattening effects on total power output of, classification of, 22:35712
power production in France by, effects of plutonium cost on, 21:42748
power reduction in, direct numerical method for optimization of, 22:50873
power transients in large power, numerical characteristics of, 22:32882
radiation testing in, criteria for fuel element, 22:32777 (KFK-700(Pt. XI))
radiation testing in, criteria for fuel element, 22:53273(T) (EURFNR-472)
reactivity characteristics of plutonium-fueled, effects of cross section uncertainties on, 22:20782 (BNWL-SA-1501)
reactivity coefficients for plutonium fueled light-water, 21:30103(R) (BNWL-400)
reactivity compensation in, use of absorber rods and cylinders for, 21:30272
reactivity effects of plutonium formation in fuel elements of, (T), 22:50848
reactivity measurements in, on-line reactivity meter for shutdown, 21:38527
reactivity of coupled breeder, lifetime characteristics, 21:35613
reactivity of heavy water moderated, effects of coolant boiling on, (E/T), 24:7077
reactivity of, calculation of fission product poisoning effects on, using REP3 code, 21:21627 (AWRE-O-69/66)
reactivity of, effects of fission neutron and prompt gamma spectra on, (T), 22:30161 (WAPD-T-1950)
reactivity of, effects of neutron absorption by fission products on, (E/T), 22:18289
reactivity of, measurement of high surface to mass ratio thorium-232 Doppler, 24:7076
reactivity oscillations in, calculation of boundary stability for xenon induced, (T), 24:5570
reactivity temperature coefficient for, calculational techniques for, 22:50754
reactivity variation, kinetic equations solution for, 21:42770
safety of, state-of-the-art review of, 23:37596
safety studies for water-cooled, analysis of coolant loss and coolant energy transfer, (E), 22:37402 (ANL-7450, pp 75-89)
shielding calculations for, using Nordheim Integral Treatment, 25:40744
shielding for, effects of iron contents on performance of concrete, (E), 25:57027 (RCN-147)
shutdown of, optimum time—minimum peak xenon model of, 21:7985
shutdown of, radiation and energy release sources following, (T), 25:10165 (CISE-R-233)
stability of, direct numerical solution technique for analysis of xenon-135 feedback effects on, 25:28811
stability of, Lyapunov analysis of xenon effects on, (T), 22:35510
xenon oscillations in discrete-time controlled, asymptotic stability region of, (T), 24:29089
xenon oscillations in water moderated power, effects of core parameters on spatial, (T), 25:8057 (NP-18548)
xenon shutdown control of high-flux, optimization of, 21:38559
xenon transients in large power, numerical characteristics of, 22:32882
xenon-135 control in, using startup pulses, 21:19416
xenon-power spatial transients in power, use of three-dimensional model for optimum control sequence of, (E/T), 22:39931

REACTORS, U.S.S.R.
see also ARBUS Power Reactor
see also Beloyarsk Power Reactor, Unit 1
see also Beloyarsk Power Reactor, Unit 2
see also Bilibiu Power Reactor
see also BN-350 Reactor
see also BN-600 Reactor
see also BOR-60 Reactor
see also Kolmsk Power Reactors
see also Leningrad Power Reactors
see also Novo Voronezh Power Reactor, Unit 1
see also Obninsk Power Reactor
see also TES-3 Reactor
see also VK-50 Reactor
beam holes in SM-2, neutron flux measurement in, 21:38673
control rod drive system for SM-2, design of electro-hydraulic, 21:44875
description of 100 MW(e), 21:38597
description of BN-350, 21:19394
description of RG-1, for geological research, 21:12249
description of various research-type, 23:17257
design of BN-350, 21:21752(T) (CEA-tr-R-1538)
design of IR-100, 21:21778
design parameters for 12 MW(t) pressurized water, 24:16076(T) (LIB/Trans-192)
design parameters for Arbus, 22:22712 (STI/PUB-174)
design parameters for power, description and, 23:33007
design parameters for research, thermal power, and fast, 23:26095
design parameters of, 25:20549(T) (AEC-tr-7187)
design parameters of water moderated heterogeneous IRT type research, 23:33089
development of, 25:20549(T) (AEC-tr-7187)
development of boiling small and medium power, 25:28716
development of dual-purpose power and desalting, description of, 23:11117(T) (JPRS-47209)
development of eastern Europe, review of, 23:9116
development of fast and pressurized water, 25:10099
development of fast breeder power, review of, 23:13369(T) (JPRS-46747)
development of fast breeder power, review of, 23:13370(T) (JPRS-46747, pp 1-13)
development of fast, review of, 23:33032
development of light water power, review of, 23:40329
development of liquid sodium cooled fast power, review of, 24:18598
development of power, 24:52749
development of power, 24:13494
development of power, analysis of optimum economic, 24:43706
development of power, effects on fuel-energy balance of, 23:13348(T) (AEC-tr-6995)
development of power, review of, 25:31534 (WASH-1175)
development of power, review of, 22:39805
development of power, review of, 24:1960
development of power, review of, 24:4003
development of VVER-type, power, 22:39807
development of water cooled and moderated power, review of, 24:18592
development of water cooled and moderated, summary of, 25:54038 (A/CONF.49/P-693)
development of, conference on, 25:48237
development of, review of, 22:18682
development of, review of, 25:34321(T) (JPRS-53069)
development of, review of, 22:35729(T) (JPRS-45331)
development program, 22:35480
development program for, description of, 22:30210

  - development program of fast breeder power, description of, 22:37448 (NP-17521)
  - development programs for fast liquid sodium cooled, review of, 24:43707
  - development programs for graphite-moderated, boiling, and pressurized-water fast power, review of, 23:17172
  - economics for triple purpose power and desalination and industrial heat, analysis of optimum, 24:18468(T) (AEC-tr-6991)
  - economics of 5 to 300 MW(t), 24:16076(T) (LIB/Trans-192)
  - electricity production from fast breeder power, economic potential from, 23:43088
  - fuel elements for VVR-M, determination of leak rate of, 21:15776
  - fuel elements for WWER-type, development of, 25:48272
  - fuel elements in RFT, determination of gamma activity distribution along, 21:10136
  - fuel fabrication for fast, economics of, 22:35499
  - fuel reprocessing for fast, economics of, 22:35499
  - gamma dosimetry in, use of SGD-type glass for, 21:10684
  - kinetics of the pulsed IGR, 21:31972
  - neutron flux measurements in VVR-S following shutdown, 21:4410
  - neutron spectrometer for pulsed, design and performance of thermal, 22:341 (KFKI-8/1967)
  - operation of IBR, 21:19485
  - operations experience of fast breeder, summary of, 25:54136 (A/CONF.49/P-750)
  - performance of power, comparison of, 22:48656 (RT/EC-(68)1)
  - physics parameters of RBR-5, 21:31970
  - power distribution in, methods for monitoring, 25:39153 (IAEA-119, 11p.)
  - power engineering developments in, review of, 22:20839
  - power production capabilities of, comparison with natural resources of economic, 23:13349(T) (AEC-tr-6996)
  - pressure vessels for gas-cooled, construction of prestressed ferro-concrete, 23:21474
  - radiation protection methods at Novo-Voronezh, 21:12160
  - radioactive effluent standards for, 25:7980 (CONF-700810-41)
  - use of fast power, in planned USSR electricity generating system, 23:52306(T) (JPRS-48330, pp 6-11)
- Reactors, Vapor-Slurry
    - see Reactors, Fluid-Fueled
- REACTORS, WATER-COOLED
    - see also Advanced Test Reactor
    - see also Argonne Low-Power Research Reactor
    - see also Babcock and Wilcox Test Reactor
    - see also Brunsbuettel Power Reactor
    - see also Fermi Power Reactor, Unit 2
    - see also Hanford Production Reactors (N)
    - see also Japanese Advanced Thermal Reactor
    - see also Japanese Materials Testing Reactor
    - see also Obninsk Power Reactor
    - see also Oskarshamn Power Reactor
    - see also Petten Test Reactor
    - see also Philippsburg Power Reactor
    - see also Prototype Advanced Thermal Reactor
    - see also Reactors, Boiling
    - see also Reactors, Pressurized-Water
    - see also Reactors, Swimming-Pool
    - see also VAK Reactor
    - see also VK-50 Reactor
    - see also Wuergassen Power Reactor
  - accident conditions in, pressure generation in, 21:40575(R) (STL-372-50)
  - accident simulation in TREAT, fission-product release from transient, 21:38699
  - accidents in power, review of U.S. safety programs on, 25:60131
  - accidents in urania-fueled water-moderated, analysis of reactivity in, 21:15727
  - accidents in, analysis of acoustic wave propagation in two phase media during, 25:6079
  - accidents in, analysis of explosive interactions for molten fuel and coolant, 24:33400
  - accidents in, analysis of radioactive aerosol release from, (E/T), 25:20758 (CONF-700816-(Vol.1), pp 72-101)
  - accidents in, characteristics of coolant expulsion, 24:33402
  - accidents in, comparison with LMFBR of core, 25:6077
  - accidents in, evaluation of point kinetics methods for analysis of rod ejection, 23:37592
  - accidents in, fission product distribution from, 21:31908 (CONF-660904-Vol.1 and 2, pp 4-27)
  - accidents in, iodine formation in, 21:22411 (ORNL-4076, pp 141-74)
  - accidents in, propagation and reflection of underwater pressure waves from, (E/T), 23:28506 (EUR-4101, pp 23-74)
  - accidents in, release and behavior of fission products from, 24:11214(R) (ORNL-TM-2777)
  - acoustical noise from boiling in, 21:34523 (ORNL-4091, pp 136-82)
  - aerators for coolants of, description of core arranged spray nozzle shaped, 23:40353(P)
  - agro-industrial complexes, estimated costs of electricity and water production from, 23:11167 (ORNL-4290)
  - analysis of thermal and hydrodynamic behavior of, CACTUS code for, 21:3207 (CEA-R-3039)
  - behavior during accident occurring under normal operating conditions, computer code for calculating, 21:27715
  - bibliography on power, 22:44841 (WASH-1082)
  - blowdown accidents in, European techniques for analysis of, 24:52947 (EUR-4467)
  - blowdown analysis for, 21:46906
  - blowdown analysis in, RELAPS3 code for, 24:43788 (IN-1321)
  - blowdown calculations for, development of pressure-coupled core-cooling model for, 22:42160(R) (BMI-1844)
  - blowdown conditions in, BLODWN-2 computer program for pressure undershooting during subcooled to saturated, 24:33401
  - blowdown conditions in, Containment Systems Experiment and RELAP3 computer program analysis of, (E/T), 24:36047(R) (IN-1319)
  - blowdown in LOFT quarter scale mockup, testing for, (E/T), 24:7162
  - blowdown in, analysis of liquid—vapor action in pressure vessel for, (E/T), 23:21554
  - blowdown in, high-speed graphic simulation of, (T), 25:31588 (CONF-710302-4)
  - blowdown in, mathematic model analysis for, (T), 24:·7322
  - blowdown of, pressure and time variations for, (E/T), 25:3893 (IITRI-578-P-21-39)
  - blowdown pressure calculations for, effects of equations of state variables on subcooled, (T), 25:31590 (CONF-710302-6)
  - blowdown pressure in, reaction of core barrel to, 24:33403
  - blowdown simulation programs for, considerations in establishing, 23:37578
  - blowdown tests for, decompression effects during simulated, 22:5951
  - blowdown-simulation test facility for Japanese, description of, 22:42267
  - boilers for power, design characteristics of, 25:3898
  - boiling in core of, acoustic methods for detection of incipient, 24:16772 (TID-25328)
  - book: Water Coolant Technology of Power Reactors, 24:11153
  - burnout in, study of factors affecting occurrence during accidents, 21:15770(T) (ORNL-tr-1563)
  - cell diffusion coefficient for, calculation of, (T), 25:51230 (CISE-N-146)
  - chemical reactions between coolant and fuel element cladding of, CHEMLOC-2 computer program for, 23:4269 (ANL-7361)
  - chemistry in, 21:22841 (ORNL-4076, pp 55-79)
  - comparison in Sweden of heavy- and light-, 23:9107
  - component construction for, 22:32804
  - component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
  - components for German, development and testing of, 24:47812
  - components for, review of corrosion problems in, 25:55391
  - components for, review on corrosion of out-of-core, 25:11343 (AECL-3778)
  - components for, submerged-arc and manual covered-electrode welding methods for, 24:23442
  - configuration of agro-industrial complex, conceptual design, 22:50749
  - configuration of ring-sealed multiple assembly-fueled triple-pass water-moderated pressure vessel-contained maritime, description of, 22:42337(P)
  - construction and operation costs for power, tabular summary as of March 1, 1967, 22:44841 (WASH-1082)
  - construction in industrialized and developing countries, cost variations for, 24:28911
  - construction in Japan, review of, 24:24707
  - construction of power, regression analysis using least squares method of cost data for, 24:16091
  - construction of, review of U. S. industry progress and commitments on, 25:10088 (CONF-690967-1)
  - containment blowdown accident in, PTHISTRY computer program for pressure-temperature history of secondary, 22:50837 (ANL-7455)
  - containment buildings for, evaluation of protective coatings for, 22:42191 (IN-1169)
  - containment heat removal pumps for, guide for net positive suction head of, 25:31526 (TID-25697)
  - containment of coolant loss accident in power, description of MACACO analog program and PREST digital computer program for analysis of, 22:39896 (EUR-3927)
  - containment of, model analysis of safety spray cooling for coolant-loss, (E/T), 22:48777
  - containment pressure suppression system for, design parameters of spherical, 24:31077
  - containment spray solutions for, corrosion of reactor materials by, (T), 24:11212 (ORNL-TM-2412(Pt.3))
  - containment spray solutions for, post accident radiolytic gas production and concentration from, (E), 25:6035 (ORNL-TM-2412(Pt.8))
  - containment spray systems for, absorption of iodine by, (T), 24:13577 (ORNL-TM-2412(Pt.7))
  - containment spray systems for, effects of boric acid solution on stress corrosion cracking of Type 304 and Type 316 stainless steel in, (E), 25:37028 (ORNL-TM-2412(Pt.10))
  - containment spray systems for, removal of iodine by, (E/T), 25:51108 (ORNL-4623)
  - containment spray systems for, removal of iodine by sodium thiosulfate, (E/T), 25:15374 (BAW-10024)
  - containment spray systems for, review of U. S. research on, 25:31583
  - containment sprays for, heating in air—steam atmospheres of cold water drops in, (T), 24:11213 (ORNL-TM-2412(Pt.6))
  - containment structure for, description of ventilation system for hydrogen removal, 25:34379(P)
  - containment structures for development of coatings for adsorption of fission product iodine in, 23:34888
  - containment structures for power, design and construction practices and standards for prestressed and reinforced concrete, 23:47137 (TID-25176)
  - containment structures for power, development of steel and composite steel—concrete, 24:46029
  - containment structures for power, missile generation and protection criteria in design of, 22:50739 (ORNL-NSIC-22)
  - containment structures for, design requirements and problems with, 23:28534
  - containment structures for, effects of blowdown accident conditions on protective coatings for, (E), 25:6034 (ORNL-TM-2412(Pt.5))
  - containment structures for, effects of coolant loss accidents on, (E/T), 24:36047(R) (IN-1319)
  - containment structures for, effects of post accident conditions on protective coatings for, (E), 25:26006
  - containment structures for, guide for Cadweld splices in reinforcing bars of, 25:31526 (TID-25697)
  - containment structures for, guide for instrument line penetrations of, 25:31526 (TID-25697)
  - containment structures for, method for suppression of accident produced steam pressure in, 24:4082(P)
  - containment structures for, recommended allowable membrane shear stresses for resisting earthquake forces in reinforced concrete, 24:11216 (SWND-5)
  - containment system for, analysis of accidents release of radioactive aerosols in, (E/T), 25:20758 (CONF-700816-(Vol.1), pp 72-101)
  - containment system for, description of water filled tray for pressure suppression in, 23:43124(P)
  - containment system for, effects of coolant loss conditions on performance of air cleaning equipment for, (E), 25:20782 (CONF-700816-(Vol.1), pp 102-27)
  - containment system for, effects of sodium thiosulfate additive on removal of methyl iodide in, 25:34392(R) (ORNL-4647)
  - containment system for, evaluation of pressure suppression/gravity flooding, (T), 24:47880 (GEAP-5536)
  - containment system for, pressure suppression device for, 24:16222(P)
  - containment system for, use of steam condensation at surface of liquid reservoir for pressure suppression in, 23:9174(P)
  - containment systems for power, design standards for gas control methods during coolant loss accidents in, 25:28702
  - containment systems for power, evaluation of leakage rate testing and reporting procedures for, 23:33074
  - containment systems for power, evaluation of missile generation and protection in, 23:33073
  - containment systems for, analysis of various types of, 21:46905
  - containment systems for, CONTEMPT-PS code for determining effects of coolant loss accidents on pressure suppression, 22:32881
  - containment systems for, description of baffle controlled flow with blow-off valve in primary and secondary, 22:30277(P)
  - containment systems for, effectiveness of water spray for removal of iodine in, (T), 25:15372 (AE-408)
  - containment systems for, effects of coolant loss accidents on, 22:48660
  - containment systems for, effects of coolant loss on response of, 22:12063
  - containment systems for, fission product removal by sprays in, 24:43784 (CONF-700608-13)
  - containment systems for, MIRA code for analysis of iodine removal by, 25:54152 (BMI-1915)
  - containment systems for, performance of fibrous filters for aerosol removal in, 24:33335 (ORNL-4524)
  - containment systems for, post-accident performance of air cleaning systems in, (E/T), 25:26002 (BNWL-SA-3355)
  - containment systems for, review of charcoal filter air cleaning systems in, 23:23926 (CONF-680821-, pp 13-26)
  - containment vessel decompression experiment for, 21:42726(R) (IITRI-578-P-21-30)
  - containment vessel for, experimental determination of iodine removal rate from, 22:18459
  - containment vessel leakage under simulated maximum credible accident conditions, 22:30272
  - containment vessels for, analysis of accident loads on, 21:14015
  - containment vessels for, effects of post-accident atmospheres on leakage rates of, (E), 25:23307 (BNWL-1475)
  - containment vessels for, standards for isolation valves in, 25:46272 (RDT-E-1-13-T)
  - containment vessels of, calculation of pressure changes inside, 21:25744
  - control elements for, description of spring-separated roller-supported plate-type fuel-and-control, 22:50857(P)
  - control elements for, hydraulic drive system for, 25:60047
  - control elements for, reliability of hydraulic and electromechanical drives for, 24:26744 (CONF-680666-1)
  - control elements of, comparison of design configurations for, 24:29002
  - control elements of, description of hydraulic actuated shutdown drives for, 24:26748(P)
  - control elements of, description of ring seals for piston drives of rod type, 23:43102(P)
  - control in Germany of use of digital computers for, 23:40309
  - control of breeder, three dimensional space-time analysis for movable fuel, (T), 25:15353 (WAPD-TM-968)
  - control of power, system partitioning approach for transient digital, (T), 24:46027
  - control rod drives for, development of, 22:25012
  - control rod dropout accidents in, transient response following, (T), 25:60111(R) (BMI-1917)
  - control rod materials for, summary of properties and performance of, 23:11174
  - control rod performance in, experience with boron-containing, 22:30199
  - control rods for fast breeder steam, design criteria for, 22:53367
  - control rods for power, analysis of economics and efficiency of, 22:30190
  - control rods for, description of cruciform, 25:36998(P)
  - control rods for, description of hydraulic shock absorber for, 25:25970(P)

control rods for, development of hydraulic drives for, 22:37444 (KFK-665)
control system for double-wall square-lattice, description of variable neutron absorber fluid, 22:39802(P)
control system for, description of hydraulically actuated and recorded, 22:46897(T) (EURFNR-497)
control system for, design of hydraulically damped spring assembly for, 23:2460 (KFK-735)
control system for, purification of boric acid solution in, 21:46973(P)
control systems for boiling, digital control algorithm for on-line noise analysis in, 24:38508
control systems for intrinsically unstable, development of direct digital, (T), 25:46334 (RT/EL-(69)7, Paper 5)
control systems for, effects of two turbine power plant on, 24:47842
control systems for, review of, 21:17502
coolant activation in, measurement of, 21:21783
coolant blowdown in, machine plotting of data from simulated, 23:2053(R) (BNWL-885)
coolant blowdown in, transient and dynamic pressures, temperatures, stresses, flow rates, and hydraulic forces from, (E/T), 25:44133 (BNWL-1524)
coolant boiling detection in, equipment and methods for nucleate and film, 23:52488(T) (LIB/Trans-209)
coolant boiling in, hydraulic and thermal problems from, 23:19493
coolant boiling in, methods for detection of local, (E), 25:20716 (CEA-R-4118)
coolant boiling in, natural oscillations for bubble—liquid mixture during subcooled, (E/T), 25:1883
coolant boiling in, neutron flux noise and acoustic methods for detection of, (E), 24:50240
coolant boiling in, sensitivity of methods for detection of, (E), 25:56996
coolant boiling studies for, summary of transient, 21:6131(R) (SAN-1013(Vol.1))
coolant channel for, transient heat transfer in simulated, (E/T), 23:26124
coolant channels in, comparison of hydrodynamics models for determining static and dynamic behavior in, 23:28446
coolant channels in, randomness effects on neutron intensity attenuation factors in, 23:34904
coolant channels of, effects of flow disturbance hydrodynamic stability in parallel, (E), 24:20561
coolant channels of, hydrodynamic stability in, (E/T), 24:20560
coolant channels of, measurement of dryout distributions in, (E), 24:20562
coolant chemistry for, 22:7814(R) (ORNL-4178)
coolant chemistry in, control of, (E), 25:20718(T) (LIB/Trans-308)
coolant chemistry of, effects of boric acid on corrosion in, 23:35073
coolant circulation in, evaluation of, 21:31968
coolant crossflow mixing in core of power, effects of core configuration and boiling on turbulence in, (E/T), 23:15629 (BNWL-371(Pt.3))
coolant cycles for, comparison of various, 22:1788
coolant failure in thermal, chemical reactions from, 21:46837 (ANL-7325, pp 136-78)
coolant filters for sorption of iodine, design of, 21:6118
coolant flow blockage in, effects on fuel assembly integrity of, 24:46070 (NEDO-10174)
coolant flow effects on transient processes in, 21:31976
coolant flow in boiling, density-wave oscillations in two-phase, (E), 24:33305
coolant flow in pressure tubes of, description of rings to impart turbulent, 22:22786(P)
coolant flow in, critical discharge pressure and velocity of sound in two-phase, 24:372
coolant flow in, hydrodynamics of swirling two-phase discharge, (E/T), 22:25005
coolant flow in, mixing, flow regime, and void fraction characteristics of two-phase, 24:19141
coolant flow in, noise induced by fluctuations in at-power, (T), 24:38625
coolant flow rate in, effects of oscillations on, 22:39829
coolant for 1000 MW(e), effects of fission product iodine energy on decomposition of, 22:42160(R) (BMI-1844)
coolant for economics and efficiency of anion and cation power- and bead-type resin treatments for, 23:11356
coolant for mixed steam and, effects of steam quality on radiolysis of, 24:16573
coolant for, dissolution of gases in, (T), 23:45077
coolant for, equipment for purification of, 25:48275
coolant for, purification and decontamination methods for, 24:18640
coolant for, use of Cherenkov detectors for fission product monitoring of, 23:2046
coolant heat transfer in, effects of turbulence around fuel rods on, 25:18580
coolant heating in, description of two-stage, 22:32956(P)
coolant in, delayed neutron emitting fission product monitoring method for, 25:31580
coolant interactions with molten aluminum cladding in, pressure generation from, (E/T), 25:57102
coolant leak detection in drywell of primary containment of, instrumentation for, 22:16127 (CONF-671011-, pp 228-37)
coolant leak detector for, description of color changing, 25:10206(P)
coolant loops for, dynamics of two-phase stationary flow in, 23:32988 (DOCKET-50010-14)
coolant loses from, study in CABRI of, 21:46951
coolant loss accident conditions in, analysis of fuel rod failure for, (E), 25:23342 (ORNL-4635)
coolant loss accident conditions in, blowdown characteristics of pressure vessel orificed side nozzle for, (E/T), 25:23306 (BNWL-1470)
coolant loss accident conditions in, effects of delayed bubble growth on blowdown during, (T), 25:18153 (AHSB(S)R-189)
coolant loss accident conditions in, effects of Zircaloy tube cladding deformation on coolant channel reduction for, 24:33370
coolant loss accident conditions in, fuel element failure from, 25:60126
coolant loss accident conditions in, heat transfer characteristics for 1.4 MW reverse flow, (E/T), 25:6119
coolant loss accident conditions in, measurement of hydrogen production in simulated, 25:6258(R) (IN-1426)
coolant loss accident in water moderated power, analysis of fission product release during, 25:57104
coolant loss accident in, blowdown phenomena following, (E/T), 23:33060(T) (AEC-tr-7047)
coolant loss accident in, calculation of metal—water reactions and core heating during, 21:46837 (ANL-7325, pp 136-78)
coolant loss accident in, computer program for hydraulic and thermal analysis of reactor core channels in, 22:22656 (BMI-1832)
coolant loss accident in, description of flow pipe screen barriers for vaporizing water outflow from, 23:28494(P)
coolant loss accident in, fuel rod failure in simulated, 24:36356 (ORNL-4586, pp 98-117)
coolant loss accident in, power variation following, (T), 22:25027
coolant loss accident simulation for, use of Zircaloy-2 clad uranium dioxide pellets for out-of-pile, 22:30118 (ANL-7438)
coolant loss accidents in boiling, evaluation of bottom flooding for control of core temperature transients after, 22:32860
coolant loss accidents in boiling, thermal and hydraulic phenomena from emergency coolant injection following, (E), 24:38576 (IN-1385)
coolant loss accidents in power, analysis of rod bundle critical heat flux during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in power, critical flow condition during, (E/T), 24:36047(R) (IN-1319)
coolant loss accidents in power, evaluation of potential effects of metal—water reactions during, 23:43074
coolant loss accidents in power, probability analysis for, 24:50063
coolant loss accidents in, aerosol particle transport and deposition during, 22:51160 (BNWL-848)
coolant loss accidents in, analysis of effects of metal-water reactions during, 22:42202 (ORNL-NSIC-23)
coolant loss accidents in, analysis of radioactive aerosol removal by containment system filters during, (E), 25:20782 (CONF-700816-(Vol.1), pp 102-27)
coolant loss accidents in, analysis of radiolytic production of hydrogen during, 22:42160(R) (BMI-1844)
coolant loss accidents in, analytical model development for, 24:33362 (IN-1382)
coolant loss accidents in, analytical model development for, 24:33363 (IN-1383)
coolant loss accidents in, blowdown and core heat transfer processes in, (E/T), 23:15653 (CONF-680832-6)
coolant loss accidents in, blowdown and core heatup during, (E), 25:54168
coolant loss accidents in, boundary-layer model of fission product release in, 22:48792
coolant loss accidents in, BRUCH calculational model for thermal and hydraulic processes during, 24:20593
coolant loss accidents in, CHEMLOC-I program analysis of, 21:12231(R) (ANL-7267)
coolant loss accidents in, CHEMLOC-II code calculations of metal-water reaction, core heating, and core motion following, 22:27397 (ANL-7375, pp 135-59)
coolant loss accidents in, combustion limits of steam-diluted hydrogen—oxygen mixtures following, (E), 25:39274 (MSAR-68-109)
coolant loss accidents in, computer code for fuel rod heat conduction during, 25:57094 (RISO-M-1391)
coolant loss accidents in, computer codes for analysis of, 23:37574
coolant loss accidents in, containment and primary systems response analytical models for, 23:28514 (IDO-17258-A)
coolant loss accidents in, core heatup during, 22:39774 (IDO-17272)
coolant loss accidents in, CVTR testing of containment system behavior during, 23:28521 (IDO-17258-H)
coolant loss accidents in, description of computer program for analysis of, 23:37575
coolant loss accidents in, design parameters of scale model facility for analysis of, 25:60111(R) (BMI-1917)
coolant loss accidents in, determination of fuel rod temperature change following, 22:42197(T) (NSJ-tr-112)
coolant loss accidents in, ECCSA and MUCHA codes for thermal—hydraulic analysis of, 24:43783(R) (BMI-1885)
coolant loss accidents in, ECCSA and MUCHA codes for thermal—hydraulic analysis of, 25:37036(R) (BMI-1904)
coolant loss accidents in, ECCSA and MUCHA codes for thermal—hydraulic analyses of, 25:60111(R) (BMI-1917)
coolant loss accidents in, effect on Zircaloy clad fuel rod failure of, 24:9106 (ORNL-TM-2742)
coolant loss accidents in, effects of fission product iodine deposition in stainless steel and painted surfaces of, 23:52377 (BMI-1865)
coolant loss accidents in, effects of pressure drop, power level, and boiling on coolant evaporation following, 23:28503(R) (BMI-1861)
coolant loss accidents in, effects of subcooled and saturated blowdown on, 22:39774 (IDO-17272)
coolant loss accidents in, effects of void fraction and residual water on, 23:4287
coolant loss accidents in, effects of Zircaloy cladding swelling during, (E), 25:41463
coolant loss accidents in, embrittlement of Zircaloy cladding from, 25:51148
coolant loss accidents in, emergency core cooling system thermodynamics during, 25:6085
coolant loss accidents in, emergency systems response to, 25:41495
coolant loss accidents in, explosion hazard from metal—water reactions following, 23:28507 (EUR-4101, pp 75-88)
coolant loss accidents in, factors affecting fission product release from, (E/T), 25:31605
coolant loss accidents in, finite element techniques for vibration analysis of, (T), 25:31591 (CONF-710302-7)
coolant loss accidents in, fission product behavior from, 21:30148 (IDO-17237)
coolant loss accidents in, fission product behavior analytical models for, 23:28515 (IDO-17258-B)
coolant loss accidents in, fission product behavior during, 23:28523 (IDO-17258-J)
coolant loss accidents in, fission product deposition on primary system surfaces during, 23:33061 (BMI-1863)
coolant loss accidents in, fission product deposition on systems surfaces during, 23:33062 (BMI-X-10244)
coolant loss accidents in, fission product deposition on systems surfaces during, 23:33063(R) (BMI-X-10252)
coolant loss accidents in, fission product release from, (E/T), 25:18163
coolant loss accidents in, fission product sampling and decontamination techniques for LOFT tests on, 23:28522 (IDO-17258-I)
coolant loss accidents in, fission-product iodine transport and deposition following, (E/T), 22:42161(R) (BMI-X-10237)
coolant loss accidents in, FLASH-2 code analysis of subcooled decompression transients during, (E/T), 25:23316 (WAPD-T-2284)
coolant loss accidents in, FLASH-3 code analysis of system thermodynamics and emergency core cooling system performance during, (E/T), 25:23315 (WAPD-T-2114)
coolant loss accidents in, formulation of physical model for determining fuel cladding behavior under, 23:28503(R) (BMI-1861)
coolant loss accidents in, fuel pin thermodynamic and mechanical behavior during, 23:28519 (IDO-17258-F)
coolant loss accidents in, full-length emergency core cooling heat transfer during, 23:28518 (IDO-17258-E)
coolant loss accidents in, guide for control of combustible gas concentrations following, 25:31526 (TID-25697)
coolant loss accidents in, heat transfer analysis model for, 22:30186
coolant loss accidents in, heat transfer characteristics in bundle type fuel elements for, (E/T), 24:47884
coolant loss accidents in, high speed graphic simulation of blowdown during, (T), 25:31588 (CONF-710302-4)
coolant loss accidents in, hydrogen gas generation in containment following, (T), 24:45989
coolant loss accidents in, hydrogen generation and control in, (E), 25:34393(R) (ORNL-TM-3342)
coolant loss accidents in, hydrogen generation and control during, 25:48291(R) (ORNL-TM-3411)
coolant loss accidents in, integrated computer code automation system for analysis of, 25:31594 (CONF-710302-10)
coolant loss accidents in, LOFT instrument development support program for, 23:28520 (IDO-17258-G)
coolant loss accidents in, LOFT semiscale blowdown and emergency core cooling simulation of, 23:28516 (IDO-17258-C)
coolant loss accidents in, LOFT-ESS program plan summary for assessment of, 23:28513 (IDO-17258)
coolant loss accidents in, long term core recovery cooling requirements during, 23:28503(R) (BMI-1861)
coolant loss accidents in, mathematical model for CONTEMPT—PS program for predicting pressure-temperature history in pressure-suppression containment vessel during, 23:11256(R) (IDO-17265)
coolant loss accidents in, metal—water reactions during, 23:9264
coolant loss accidents in, model for blowdown pressure and temperature transients during, 24:36053
coolant loss accidents in, model for prediction of performance during, 22:39774 (IDO-17272)
coolant loss accidents in, modified FLASH bubble rise velocity model for void fraction and residual water predictions during, (E/T), 23:15659 (WAPD-T-2155)
coolant loss accidents in, MOXY code for computing core heat transfer during, (T), 25:31587 (CONF-710302-2)
coolant loss accidents in, MOXY computer program for core heat transfer during, 24:50155 (IN-1392)
coolant loss accidents in, noble gas absorption and release by emergency core cooling water following, (E), 25:3892 (BNWL-SA-3360)
coolant loss accidents in, NURLOC-1.0 code analyses of core temperatures following, 25:20762 (JAERI-Memo-4194)
coolant loss accidents in, performance of emergency core cooling systems during, 23:28524 (IDO-17258-K)
coolant loss accidents in, pressure blowdown characteristics and transient DNB heat flux during, 23:13570 (CONF-680832-4)
coolant loss accidents in, pressure transients in reactor buildings during, (T), 24:38586
coolant loss accidents in, pressure wave propagation phenomena from, 23:28505 (EUR-4101, pp 9-22)
coolant loss accidents in, pressure-time transient response of high enthalpy water during, 22:32799
coolant loss accidents in, pressurized emergency core cooling system design for, 24:16223(P)
coolant loss accidents in, program for analysis of core behavior during, 25:57101
coolant loss accidents in, properties of containment atmosphere during and following, 24:29429 (BNWL-1326)

coolant loss accidents in, radiolytic production of hydrogen following, (E/T), 25:37036(R) (BMI-1904)
coolant loss accidents in, safeguards against fuel meltdown during, 22:5980
coolant loss accidents in, scoping emergency core cooling heat transfer during, 23:28517 (IDO-17258-D)
coolant loss accidents in, steam reactions with fuel element cladding following, (E), 24:36043 (ANL-7609)
coolant loss accidents in, systems engineering approach to, 22:39774 (IDO-17272)
coolant loss accidents in, thermal transient behavior following, (T), 22:37532(R) (IDO-17242)
coolant loss accidents in, transient core heatup during blowdown phase of, (E), 25:10246
coolant loss accidents in, two and three dimension fluid transients during blowdown during, 25:41496
coolant loss accidents in, violent phase charge effects from depressurization in, (E/T), 24:29039
coolant loss accidents in, void fraction in outlet pipe during blowdown, (E), 24:36044(R) (BNWL-1315-2)
coolant loss accidents in, ZOCO II code for pressure buildup in containment systems following, 25:1911 (MRR-66)
coolant loss burnout mechanisms in channels of, 21:39114 (TID-23986)
coolant loss conditions in, calculation of critical flow for, (T), 24:7058
coolant loss conditions in, performance of amine containing organic polymer coatings for fission product adsorption under, 24:18685 (BMI-1874)
coolant loss in power, CHEMLOC 2 computer program analysis of, 24:2004 (ANL-7575, pp 130-5)
coolant loss in, analysis of safety injection strategies during, (E), 24:7158
coolant losses caused by restricted flow in, decompression effects during, 22:5951
coolant losses in, bottom-head melt-through analysis for, 21:44843(R) (IDO-17239)
coolant losses in, calculation of metal-water reactions and core heating during, 22:5979
coolant losses in, metal-water reactions during, 21:46906
coolant mixing in fuel bundle subchannels of, measurement for single phase and two phase flow of, (E), 25:23273
coolant monitoring for trace amounts of zirconium in, 21:17600
coolant monitoring in, design of fuel element leak detection system for, 21:12250
coolant monitoring in, device for flow delay during, 22:10106(P)
coolant of, analysis of distillation methods for purification of primary, 25:60064
coolant pH control at 8.5 to 10.0 in, use of mixed-bed ion-exchange resin for, 22:14470 (AERE-M-1829)
coolant pressure drop on fuel rod bundles in, single and two phase, (E/T), 24:47858
coolant pump design for, 22:30771
coolant pumps for, description of glandless flywheels for, 25:46161(P)
coolant pumps for, description of multi-nozzle removable jet, 22:39927(P)
coolant pumps for, design characteristics of, 24:9098
coolant pumps for, design of internal axial-mounted, 22:25014
coolant pumps for, design of seals for, 25:2392
coolant purification by ion exchange, 23:40838
coolant purification for, effects of bypass-cycle treatment on optimum economic, 24:29007
coolant recombiner for, development of catalytic, 23:33049
coolant sampling equipment for, 21:10180(P)
coolant separation from magnetite, filter for, 21:23649
coolant system for, steady state and dynamic behavior of, (E), 21:1219(R) (EURAEC-1682)
coolant systems for, standard for welding, examining, and testing components for, 25:42849 (RDT-F-6-1-T)
coolant technology of power, book on, 24:11153
coolant temperature for, analysis of optimum, 24:20564
coolant tube burnout in, method for calculation of, 23:17677
coolant water deoxygenation for, using hydrazine, review on, 25:39995 (BARC-530)
coolant water purification for, by ion exchange, 24:19044 (IBK-832)
coolant-loss accident analysis in, description of FLASH-2 method for, 23:11260
coolant-loss accidents in, failure behavior of Zircaloy-clad fuel rods during, 22:48655 (ORNL-TM-2347)
coolant-loss accidents in, fission product behavior under simulated, 23:23939 (IN-1172)
coolants for, evaluation of data on density of two phase mixtures in, 23:26123
coolants for, Institute of Atomic Energy (USSR) standards for chemical analysis of water, 22:20942 (ZFK-RN-31, pp 284-98)
coolants for, radiation effects on Zircaloy-2 corrosion by, 21:35571 (EURAEC-1862)
cooling by steam—water spray, corrosive effects, crud deposition, and radiolytic gas production from, 23:31161 (EURAEC-2058)
cooling channels for, effects of fuel assemblies grid and spacer configurations on coolant flow and heat transfer of, (E), 25:28681(R) (GEAP-10221-6)
cooling channels for, helical baffle for prevention of dryout in, 25:54081(P)
cooling channels for, steady-state forced convection heat transfer in concentric annular, (E/T), 25:37008 (UARAEE-50)
cooling channels for, stochastic methods for analyzing hydrodynamic instabilities in, 23:28466
cooling channels in, effects of power excursions on temperature, pressure variations, and void fraction in, (E/T), 23:19492
cooling channels in, system for two-phase flow measurements in, 25:37672 (RISO-M-1368)
cooling channels of water moderated, computer program for thermal and hydraulic analysis of, 25:28679 (EUR-4553)
cooling channels of, power spectral density of temperature fluctuations in, (E), 25:60242
cooling device for, performance of spray, after accidents, 21:10146
cooling system blowers for steam, design of, 21:40562 (KFK-545)
cooling system burnout in simulated marine, 21:10195
cooling system components for, requirements and responsibilities of ASME code for inservice inspection of, 24:18642
cooling system corrosion in, mechanisms of zirconium components of, 21:26927
cooling system corrosion in, methods for inhibiting, 25:39998
cooling system corrosion in, role of oxygen and radiolytic products in, 25:39527
cooling system decontamination in, review of procedures for, 23:37582
cooling system design for, 21:19440(P)
cooling system design for, 21:35639(P)
cooling system design for boiling, control aspects of, 24:31059
cooling system dynamic behavior in boiling, hydrodynamic model analysis of, (E/T), 22:37441 (HPR-97)
cooling system equipment for power, description of, 22:42221
cooling system for direct cycle power, description of integral indirect heat multistage, 23:4293(P)
cooling system for emergency shutdown of heavy water-moderated boiling, description of perforated central-tube lateral-flow water, 22:42279(P)
cooling system for fast breeder steam, application of Loeffler cycle to, 22:53363
cooling system for heterogeneous gas-cooled, description of dual-medium superheating, 22:37481(P)
cooling system for pool contained, description of forced circulation vacuum sealed, 23:43109(P)
cooling system for power, design characteristics of pumps for, 24:43746
cooling system for pressure tube type, use of gas pressure to control water inventory in, 23:47178(P)
cooling system for pressure-tube, design of, 21:23645
cooling system for pressurized-water- and steam-cooled, description of multi-zone core two phase, 22:37493(P)
cooling system for superheating, with vapor generators and circulators enclosed by reactor vessel, 23:9151(P)
cooling system for uranium oxide (UO$_2$) fueled, calculation of fission product distribution in, (E/T), 25:25973 (IAE-1968)
cooling system for, analysis of coolant in, by neutron activation and paper chromatography, 24:9259
cooling system for, burnout heat flux design curves for forced-convection subcooled, 23:17268 (ORNL-TM-2421)
cooling system for, coolant loss accidents resulting from rupture of primary, 22:39774 (IDO-17272)
cooling system for, description of automatic steam-regulated auxiliary, 23:19502(P)
cooling system for, description of concentric tube flow control device for, 24:33289(P)
cooling system for, description of water decontamination methods for, 22:20936 (Zfk-RN-31)
cooling system for, electron microscopy studies of corrosion product deposition in, 23:36014
cooling system for, evaluation of saturated-steam, 21:10172
cooling system for, feedwater driven jet pumping system for, 24:4053(P)
cooling system for, pipe flaw and rupture characteristics of, 25:45029 (BMI-1908)
cooling system for, ratio of burnout to incipient-boiling heat fluxes in, (T), 23:17268 (ORNL-TM-2421)
cooling system for, safety considerations in design of components for, 22:53366
cooling system for, sampling of corrosion products in, 23:36017
cooling system for, stochastics of corrosion product deposition in, 23:36015
cooling system ion exchangers for, efficiency of powdered, 23:26346
cooling system model for Tokyo University, description of, 21:21672
cooling system of power, conditioning processes for condensate and feedwater in, 24:22399
cooling system of water moderated power, description of ASME inservice inspection code for, 23:31188
cooling system of, corrosion measurement on steel, 22:12978
cooling system of, description of strontium chromate (SrCrO$_4$)/silver sulfate (Ag$_2$SO$_4$) couple leak detector for, 24:20582(P)
cooling system of, effects of gas pressurizer on gas sorption in, (T), 24:29006
cooling system of, low-cycle fatigue of pipes in primary, 24:36892 (GEAP-10135)
cooling system of, of installation and maintenance of internal axial pumps for, 24:1993
cooling system of, problems with two phase fluid flow in, 24:18637
cooling system of, use of iron oxide or lead base compounds for shielding of, 24:4047(P)
cooling system pipes for, testing to rupture failure, 23:3044 (GEAP-5653)
cooling system piping for, analysis of intergranular corrosion cracking of Type 304 stainless steel, 24:50079
cooling system piping for, fatigue crack growth in steel, 25:22077
cooling system standards for, 24:14646 (ORNL-4400, pp 57-68)
cooling system thermodynamics for, FLICA computer program for, 23:23891 (CEA-R-3716)
cooling system tube fabrication for, 23:16472 (BNWL-746, pp 8.1-7)
cooling systems for power boiling, performance following coolant-loss accidents of core standby, 22:50701 (APED-5458)
cooling systems for power, strength and pressure integrity standards for pumps and valves in, 24:43606 (NP-18352)
cooling systems for U. S., development and application of in-service inspection procedures for, 25:23226
cooling systems for, acoustic system for leak detection and location in, 24:33286 (IN-1371)
cooling systems for, analysis of integrity of primary, 21:46906
cooling systems for, boiling flow regimes and critical heat flux in, (E/T), 22:24971(R) (NYO-3304-11)
cooling systems for, burnout detector for simulated, 24:24825
cooling systems for, calculation of natural circulation in, (T), 24:50106
cooling systems for, chemical cleaning for decontamination of, 24:18557
cooling systems for, corrosion product migration into steam in, 21:13999
cooling systems for, critical flow and sonic velocity of steam—water mixtures in, (T), 23:52468
cooling systems for, description of steam-recirculating nozzle-controlled upward-flow spray, 22:47060(P)
cooling systems for, design and operation of water separators and reheaters in, 25:8072
cooling systems for, design criteria and standards development for, 24:11214(R) (ORNL-TM-2777)
cooling systems for, design, fabrication, and use of gate, globe and check valves in, 25:12785 (ORNL-TM-3221)
cooling systems for, discussion of steam cycles in relation to, 22:3869
cooling systems for, effects of corrosion in, 25:25972 (BNWL-SA-3807)
cooling systems for, effluent rate from accidental rupture of, (T), 25:23280
cooling systems for, failure mechanisms in piping of, (E/T), 25:1880(R) (GEAP-10207)
cooling systems for, failure mechanisms in piping of, (E/T), 25:12783(R) (GEAP-10207-22)
cooling systems for, failure mechanisms in piping of, (E/T), 25:28680(R) (GEAP-10207-23)
cooling systems for, failure mechanisms in piping of, (E/T), 25:60061(R) (GEAP-10207-24)
cooling systems for, fission product release and behavior in, 22:32957 (AAEC/TM-418)
cooling systems for, gaseous pressurizer performance for gas elution in primary, 25:57042
cooling systems for, guide for specification of gate, globe, and check valves for, 25:12786 (ORNL-TM-3273)
cooling systems for, heat transfer and stability characteristics of, (E/T), 22:22686 (EURAEC-1996)
cooling systems for, heat transfer properties of boiling additive-containing water emergency, 22:42206(R) (SNE-40)
cooling systems for, heat transfer under power, flow, and pressure transients in, (E), 25:51063(R) (GEAP-10221-7)
cooling systems for, integrity of primary, 22:12063
cooling systems for, measurement of heat transfer and fluid flow characteristics of, 22:25004
cooling systems for, pressure drop in subcooled boiling in rectangular channels of, (T), 25:48314 (NP-18904)
cooling systems for, pressure relief devices for, 24:46060
cooling systems for, probability of piping leakage due to low-cycle fatigue in, (T), 24:46034(R) (GEAP-11069)
cooling systems for, RDT standards for coolant chemistry in, 24:36207 (ORNL-4586, pp 67-86)
cooling systems for, reactor environment effects on materials for, 22:37479
cooling systems for, standards for construction of, 25:43993 (RDT-E-15-2-T)
cooling systems for, standards for inservice inspection of, 25:46157
cooling systems for, standards for pumps and valves for, 25:34345
cooling systems for, use of constant speed pumps and feedwater driven pumps in, 25:60067(P)
cooling systems of boiling, effects of twisted taps on dynamic behavior of, (E/T), 24:36028
cooling systems of, analog computer simulation of tracer diffusion in, 24:38630
cooling systems of, analysis of pressure pulses from rapid heating in, (E/T), 24:13581
cooling systems of, ASME inspection code for, 24:20481
cooling systems of, corrosion product build-up in, (T), 24:31060
cooling systems of, corrosion product generation, dispersion, and activation in, 23:9264
cooling systems of, design and performance of internal axial pumps for, 24:1990
cooling systems of, design of internal axial pumps for, 24:1991
cooling systems of, effects of crud deposition on heat transfer in, (E/T), 25:57034
cooling systems of, effects of transient heat flux on burnout in, 24:24824
cooling systems of, hydraulic performance of internal axial pumps for, 24:1992
cooling systems of, mass and heat transfer between adjacent channels in, (E/T), 24:36027
cooling systems of, porous plug burner system for off-gas from, 25:51110
cooling systems of, review of critical heat flux analysis methods for, 23:4204 (FEI-111)
cooling systems of, review of static seals for primary, 25:20719 (ORNL-TM-3308)
cooling systems of, standards for in-service inspection of, 25:34338
cooling systems of, stress analysis for steel components of, 25:48290(R) (ORNL-TM-2663)

cooling systems of, subcooled blowdown dynamic hydraulic forces on, (E/T), 24:36048 (IN-1354)
cooling systems of, testing of internal axial pumps for, 24:1994
cooling systems of, transient steam-void formation in, (E) , 21:13988(R) (STL-372-47)
cooling systems, decontamination of, 23:7372(P)
core components for, analysis of intergranular corrosion cracking of Type 304 stainless steel, 24:50079
core components for, review on corrosion of, 25:11343 (AECL-3778)
core components for, stability calculations for flow-induced vibrations of, 25:57086 (CONF-710302-(Vol.1), pp 356-9)
core configuration of fast, description of dual coolant channels in zirconium-enclosed multiple region, 23:2002(P)
core configuration of heavy water-moderated superheating power, description of improved, 22:44837 (TRG-Report-1692)
core cooling system for, analysis of failure of emergency, 22:12057
core design and analysis for 600-MW(e) boiling, high power density, 21:17448(R) (GEAP-4974)
core design and construction for quality control aspects of, 22:18448
core design for heavy-water moderated, with means for equalizing coolant and moderator pressures, 21:46910(P)
core design for supercritical steam-cooled fast, with means for reactivity control on flooding, 22:16241(P)
core emergency cooling for, cooldown rates and heat transfer coefficients for, 23:28503(R) (BMI-1861)
core failure in, model analysis of coolant heat transfer for, (E), 22:32873
core for boiling, depressurization performance of high pressure coolant injection system for emergency cooling of, 24:18469 (APED-5447)
core for fast steam, design parameters of, 22:16200
core for, methematical model for forced convection cooling of partially crumbled, 23:28503(R) (BMI-1861)
core for, requirements for cooling large crumbled, 23:37572
core for, use of thermal symmetry to simulate post-blowdown heatup temperature transients in, 23:11256(R) (IDO-17265)
core internals for, void effects on accident heat transfer from, 23:4286
core meltdown accidents in, methods for containment of molten mass and fission products following, (T), 25:48281 (BMI-1910)
core meltdown in coolant loss accidents, heat transfer during, (T), 23:7420
core meltdown in, heat transfer mechanisms during coolant loss accidents causing, 23:13570 (CONF-680832-4)
core melting accidents in oxide fueled, analysis of, (E), 21:13988(R) (STL-372-47)
core melting accidents in oxide fueled, analysis of, (T), 21:13987(R) (STL-372-44)
core parameters for power, effects on costs of, 22:44841 (WASH-1082)
core performance in boiling, review of computer methods for prediction of, 24:47724
core power capability of, subchannel thermal analysis of rod bundle, (T), 23:45071 (WCAP-7015(Rev.1))
core shroud for boiling, design of, 24:9108(P)
core spray cooling systems for, performance of emergency, (E), 22:24964 (IDO-17249)
core spray systems for, experimental evaluation of, 21:44843(R) (IDO-17239)
core standby cooling systems for General Electric, compliance to industry criteria of, 24:38394 (NEDO-10139)
core support structures in, coolant loss accident effects on, 24:45988
core thermal performance for, evaluation of, 22:14155
cores for fast breeder, design parameters for, 22:6010
cores for, cooling during blowdown of, 22:39774 (IDO-17272)
cores for, effect of water gaps on effective delayed neutron fraction and prompt neutron generation time of, (E/T), 24:4157
cores for, effect of water gaps on neutron density and importance distributions of, (E/T), 24:4157
cores for, heat transfer models for, 22:39774 (IDO-17272)
cores for, instrumentation for measuring thermal energy distribution in, 24:26755
cores for, thermal-hydraulic analysis methods for, 22:39774 (IDO-17272)
corrosion control in, method of, 21:2834
corrosion in, effects of ammonia on, 21:16561
corrosion of aluminum in, 21:4909
corrosion of, addition of ammonia to cooling water to reduce, 21:6768(P)
corrosion products build-up and behavior in core of, 21:25677
corrosion products build-up and behavior in out-of-core parts of, 21:25677
corrosion products in, analysis of activation and dispersion of, (T), 22:35426 (BNWL-676)
cost analysis for, review of development, operating, and fuel cycle, 25:51126
cost breakdowns for combined U. S.-Mexico dual-purpose, detailed design, 23:13418 (TID-24767)
cost for U.S. water moderated power, effects of power output capacity on, 25:34387
cover gas system of graphite moderated, description of control system for inert, 24:26751 (DUN-SA-118)
critical heat flux for, theory of similarity for, (E/T), 24:36054
critical heat flux in pressurized boiling, method and apparatus for increasing, 21:23675(P)
critical heat flux in, effects of coolant flow reduction in hot core channels on, 22:3856
criticality of, limiting ratio of maximum thermal neutron flux to power for, (T), 24:47964
decontamination of equipment and surfaces of, 25:53989 (A/CONF.49/P-799)
description of 1000-MW low-pressure-steam breeder, 22:5943
description of desalination, submerged in a deep coolant-filled reservoir, 22:25072(P)
description of Japanese heavy water-moderated boiling plutonium fueled self-sustaining, 22:30238
description of liquid-moderated multi-tube calandria, 22:10038(P)
description of pressure vessel type, with supercritical water moderator and coolant, 22:48668(P)
description of Sweden boiling, 23:13376
description of water-moderated, 22:18532(P)
design and analyses of, evaluation of coordination and AEC funding of computer code development for, 23:40430 (CONF-690401-, pp 119-29)
design and development of fast breeder, 21:17491
design and development of large closed-cycle, 21:12158(R) (WCAP-3269-18)
design and economics of, 21:23689(P)
design and performance of 1000 MW(e) fast-breeder, 21:10153
design calculations of heavy water moderated boiling, UoV computer program for, 24:20641
design characteristics of U.S, 25:54047
design concept for two 3000 MW(t) dual-purpose desalination water-moderated power, description of, 22:42353
design for 1000 MW(e) fast breeder, 21:23604 (KFK-392)
design for critical pressure operation, 21:42787(P)
design for earthquake-resistant floating, 22:39787 (TID-24558)
design for marine propulsion, 21:23700(P)
design improvements in power, review of, 22:46944
design of heavy water moderated pressure-tube, with increased core power density, 25:60033(P)
design of 1000 MW(e) fast breeder, 21:19393(T) (ORNL-tr-1541)
design of 1000 MW(e), conceptual earthquake-resistant, 22:39786 (TID-24530)
design of 1000 MW(e), with prestressed concrete pressure vessel, 22:24999
design of 1500 kW(e) portable, 21:35644(R) (ORNL-4136)
design of direct-cycle fast supercritical pressurized, 21:23680(P)
design of fast breeder, with supercritical steam coolant, 21:10189(P)
design of fast steam, comparison of EVESR with, 22:16184
design of fast supercritical, with plutonium-enriched ceramic fuel elements, 21:38620(P)
design of heavy water-reflected, enriched uranium, kinetic parameters measurements for, 22:12010 (CEA-R-3318)
design of small marine, 21:46931(P)
design of superheating, 21:46960(P)
design of Swedish fast breeder steam, 22:16199
design of uranium—zirconium hydride fueled, with controlled negative temperature coefficient of reactivity, 21:46923(P)
design of variable temperature moderator heavy water-moderated, 22:37485(P)
design of, book for mechanical, electrical or structural engineers on, 23:9128
design of, book on, 24:38396
design of, safety standards for, 22:30208
design parameters for 1000 MW(e) heavy water moderated, 24:13526 (WASH-1086)
design parameters for 200 MW(e) and 400 MW(e), calculation of standard, 25:54022 (A/CONF.49/P-285)
design parameters for 80 to 300 MW(e) pressurized, analysis of optimum economic, 23:37405
design parameters for graphite moderated power and process heat, 25:28538
design parameters for graphite-moderated dual-purpose power and desalting, comparison of economic, 23:11120(T) (KFK-tr-275)
design parameters for low-pressure-steam breeder, 22:5944
design parameters for plutonium-fueled heavy-water-moderated boiling, 22:22702 (JAERI-1151)
design parameters in Japan for advanced thermal 165 MW(e) prototype heavy water-moderated boiling, 23:13420
design parameters of beryllium reflected supercritical, with annular core, 25:28650(P)
design parameters of low power water moderated, analysis of optimum economic, 25:28640
design parameters of uranium oxide (UO_2) fueled thermionic, for underwater operation, 25:20817(P)
design simulation for boiling, description of BWR computational modular system for operation optimization and, 23:40333 (CONF-690401-, pp 344-65)
design with reheater stage and steam turbine driven feedwater pump, 25:51037(P)
design with secondary water coolant vaporized and superheated in once-through operation, 21:25694(P)
design with self-regulating cooling and control system for, 21:40647(P)
development by ASEA-ATOM, 24:47704
development in France, economic and industrial aspects of, 23:34898
development in future of, discussion on, 23:7378
development in Japan of advanced thermal prototype 200 MW(e) heavy water moderated boiling, 23:33033
development in Japan of boiling heavy water-moderated advanced thermal, review of, 23:28421
development in U. S. of, review of, 24:46009
development in U. S., status and prospects for, 25:39206 (A/CONF.49/P-34)
development in U. S., survey of, 25:10102
development in U.K. of heavy water moderated, for desalination and power, 25:18210
development in U.S.S.R. of water moderated power, review of, 24:18592
development in U.S.S.R., review of, 25:31534 (WASH-1175)
development in U.S.S.R., summary of, 25:54038 (A/CONF.49/P-693)
development in western Europe of fast breeder, 21:46885
development of boiling, review of, 24:22383
development of boiling, review of, 24:47817
development of boiling, review of 1969 progress on, 24:52858
development of boiling, survey of, 23:13379
development of dual-purpose 1300 MW(e) steam-producing power, description of, 22:35512
development of German fast breeder steam, program for, 22:16201
development of plutonium recycle, 25:23116
development of power, economic potential of, 22:18498
development of power, trends in, 25:23237
development of prototype heavy water moderated, facilities in Japan for, 24:31040
development of USSR power, review of, 23:40329
development of USSR, review of, 25:34321(T) (JPRS-53069)
development of VVER-type, in U.S.S.R, 22:39807
development of water moderated power, analysis of optimum, 24:43780
development of, CIRENE program for, 21:23652
development of, review of economic optimum, 23:28423
development of, summary of Netherlands activities on, 25:23242
development predictions in U.S. during 1970 to 2020, systems analysis for optimum economic, 25:10095 (WASH-1098)
development program for Canada heavy water-moderated boiling natural uranium-fueled, description of, 23:2003
development program for U. S. 1000 MW(e) power, effects of fuel supply on optimum economic, 22:48703
development program for Yugoslavia power, analysis of optimum economic, 22:48667
development program in US of heavy water-moderated, description of, 22:30245
development programs for Europe power, effects of uranium supply and demand on 40 year, 22:44833 (NP-17556)
development programs for U.K., U.S.A., and Canada, description of, 22:42212 (TRG-Report-1695)
dynamic effects on large boiling, analytical model and analog computer simulation of neutron and parallel flow, 23:32987 (DOCKET-50010-13)
dynamic response of, mathematical model for calculating control rod effects on, 23:40429 (CONF-690401-, pp 102-15)
dynamics during accidents, DULCINEE code for analysis of, 25:23252 (CEA-N-1378)
dynamics equations for, use of statistical methods for transfer function solutions to, 23:11184 (RCN-98, pp 439-58)
dynamics model for fast steam, linear, 23:15620
economic and technical status and potential of light water, summary of, 22:44841 (WASH-1082)
economic aspects of, comparison with AGR-type reactors, 22:6059
economics for dual purpose process heat and power, for urban heating and power, 25:10094 (ORNL-HUD-14)
economics in mixed electrical generating systems with fast breeders, (T), 25:57061 (MLM-1851)
economics of 1000 MW(e) earthquake-resistant, 22:39786 (TID-24530)
economics of 1000 MW(e), effects of site location on, 23:31100 (BNWL-960)
economics of CIRENE, 21:42763
economics of dual-purpose power-desalination, in U.S.S.R, 23:15699
economics of German thermal power, 22:48709
economics of operation of desalination, 22:18544 (STI/DOC-10/80)
economics of power, comparison of various reactor types to, 24:50149
economics of power, comparison with other common reactor types of, 25:20749
economics of power, effects of design modifications and fuel cycle management procedures on, 25:5900
economics of power, trends in capital cost aspects of, 24:33190 (WASH-1150)
economics of U.S. power, effects of fuel costs on future, 23:13518
effluents from power, decontamination systems for gaseous, 25:1902
electricity production from power, overall survey and tabular summary of, 24:9064
electricity production from, evaluation for Austrian, 23:5982
emergency core coolants for power, enhanced cooling effects of chemical additive aqueous solutions in, 23:28492 (SNE-50)
emergency core cooling for, effects on coolant loss accidents of, 22:39774 (IDO-17272)
emergency core cooling system for MTR-type, water level requirements for, (E), 25:1924 (LA-4473)
emergency core cooling system for power, performance criteria for, 25:54120
emergency core cooling system for power, probability analysis for, 24:50064
emergency core cooling system for, effects of cladding temperature and materials on performance of, (E), 24:38562 (NEDO-10179)
emergency core cooling system for, effects of Zircaloy tube swelling on performance of, 24:33373
emergency core cooling system for, effects of Zircaloy cladding swelling on performance of, (T), 24:36045 (CONF-700608-8)

emergency core cooling system for, FLASH-2 computer program for performance of, 24:33350
emergency core cooling system for, fuel rod deformation effects on performance of spray, (E), 24:38581 (NEDG-13064)
emergency core cooling system for, glass model tests for performance of, 24:33349
emergency core cooling system for, post-accident effectiveness of bottom flooding, (E), 24:47868 (GEAP-10117)
emergency core cooling system for, SECHT 3 testing program for optimum, (E), 24:20578 (IN-1355)
emergency core cooling system of, reliability analysis of, 25:6038 (RISO-214, pp 91-126)
emergency core cooling system performance in, effects of Zircaloy cladding failure on spray, (E/T), 25:41464
emergency core cooling system pumps for, guide for net positive suction head of, 25:31526 (TID-25697)
Emergency Core Cooling Systems for, design parameters and analyses for, 23:4274 (ORNL-NSIC-24)
emergency core cooling systems for, development and evaluation of, 24:45845
emergency core cooling systems for, effects of fuel rod failure on performance of spray, (E), 25:41440
emergency core cooling systems for, effects of swelling of fuel rod cladding on performance of, (E/T), 24:50128 (NEDO-10208)
emergency core cooling systems for, effects of Zircaloy cladding deformation on performance of, (E), 25:41463
emergency core cooling systems for, fault tree method for reliability analysis of, 25:8111
emergency core cooling systems for, linearized-implicit formulation of fluid flow model for, 25:60111(R) (BMI-1917)
emergency core cooling systems for, performance of molybdenum filaments in heat transfer tests of, (E/T), 24:47867 (GEAP-10092)
emergency core cooling systems for, post-accident heat transfer effectiveness of spray, (E/T), 24:47869 (GEAP-13086)
emergency systems in, European techniques for reliability analysis of, 24:52947 (EUR-4467)
engineered safeguards for, performance of air cleaning, (E/T), 25:18183 (WHAN-SA-39)
engineered safety features for power, analyses of air-cleaning methods as, 23:9189
evaluation of, economic and technical, 23:37552 (WASH-1087)
excursion accidents in, metal-water reaction, fuel heating, and fuel failure during, (E/T), 22:27397 (ANL-7375, pp 135-59)
excursions in fast steam-cooled, mechanical damage from kinetic energy release in, (T), 22:18419 (FOA-2-2498-44)
excursions in water-moderated, analysis of self-limiting power, (E/T), 23:13547
excursions in, adiabatic aproximation model for analysis of control rod drop, (T), 25:57084 (CONF-710302-(Vol.1), pp 259-81)
excursions in, analysis of moderator temperature feedback effects for fast power, (E/T), 25:23311 (JAERI-1201)
excursions in, characteristics of self-limiting power, (E), 24:5551
excursions in, effects of transient voids on analysis of superprompt critical, 21:38494
excursions of power, self control of boiling in, (T), 24:43719 (RT/FI-(70)2)
excursive-flow instabilities in, 22:10068
experimental facilities for, with vertical tubes cooled with forced turbulent flow, 24:4099(P)
feedwater for, analysis and sampling of, 23:34991
fission product aerosol concentration in containment structure of, analysis of particle formation, mechanics, and surface chemistry for severe accident, (T), 23:15657 (ORNL-4337)
fission product deposition under accident conditions, (E/T), 22:42161(R) (BMI-X-10237)
fission product deposits on stainless steel and paints in, effects of coolant loss accident conditions on iodine, 23:52377 (BMI-1865)
fission product monitor for, development of fast, 23:2046
fission product monitoring in, Cherenkov counter for, 21:35616
fission product monitoring in, use of hard gamma radiation detection system for, 23:2046
fission product monitoring in, use of thallium-activated sodium iodide scintillation detectors for, 22:19120
fission product release in power, under normal and accident operating conditions, 23:52383 (IDO-17292)
fission product release, transport, and behavior in, analytical model development for prediction of, 22:46910 (ORNL-4265)
fission product venting system for, 22:16340(P)
fission products from, release of gaseous, 25:1915
fission products in uranium oxide (UO_2) fueled, calculation of leakage rate for, (E/T), 25:25973 (IAE-1968)
fluid flow in multirod coolant channels of, study of two-phase, (E), 25:54870(R) (GEAP-10347)
forced liquid circulation in, method for obtaining, 21:4654(P)
fuel assemblies for water-moderated, description of concentric cooling and insulating cylinder-enclosed multiple rod annular-shaped, 22:42233(P)
fuel assemblies for water-moderated, description of center-positioned burnable poison rod in equally spaced multiple rod annular, 22:42232(P)
fuel assemblies for, description of central tube supported radially extending aluminum—uranium alloy plate type, 23:40485(P)
fuel assemblies for, description of multiple parallel tube-enclosed coolant-deflecting rod-type, 22:42565(P)
fuel assemblies for, design of stainless-steel spacer supports for, 21:46926(P)
fuel assemblies for, effects of temperature and pressure on flow instability in simulated 19-element bundle-type rod-shaped, (E/T), 22:53257 (AECL-2716)
fuel assemblies for, measurement of thermal-hydraulics characteristics with instrumented, 23:25996 (GEAP-4750)
fuel assembly burnout in, comparison of correlations for annuli- and bundle-type, 22:25122 (AEEW-R-558)
fuel assembly for, description of coolant deflecting grid with peripheral flow channels in, 22:20890(P)
fuel burnup calculations for water moderated, two- and three-dimensional programs for, 22:5935(T) (JPRS-42542)
fuel burnup in multizone, optimal control rod programming for maximum average, (T), 25:31584
fuel burnup in, computer program for calculation of uranium, (T), 22:44887 (EURAEC-2003)
fuel burnup in, methods for analysis of, 22:22737
fuel cladding development for breeder, using nickel-base alloys, 21:30208
fuel cladding failure detection in, by measurement of γ activity of water, 21:23758
fuel cladding for power, radiation effects on rupture properties of Zircaloy tube, 24:33329
fuel cladding rupture in, detection and location methods for, 23:17194 (CEA-R-3654)
fuel cladding ruptures in, development of system for detecting, 24:9706 (CEA-CONF-1366)
fuel cycle costs for medium-size, future trends in, 24:28913
fuel cycle costs for water moderated, 24:31080 (CONF-700502-, pp 522-33)
fuel cycle costs for, effects of various supply schemes on, (T), 25:1905
fuel cycle economics for, 23:28633
fuel cycle economics for, 21:40950 (CONF-670542-, Paper 5)
fuel cycle economics for, comparison of fast breeder reactor fuel cycle economics and, 22:48635 (BNWL-SA-2052)
fuel cycle economics of uranium-233 fueled, in combination with thorium blanketed fast breeders, (T), 24:46066
fuel cycle for power, cost analysis of, 25:10100
fuel cycle for, advantages and disadvantages of complete services and warranties for, 23:28489
fuel cycle for, economics of re-use, 22:42162(R) (BNWL-254)
fuel cycle for, future cost trends of, 24:29032
fuel cycle for, summary of time schedules and economics of, 23:13381
fuel cycle for, technical and economic status of, 25:37034
fuel cycle in power, financial aspects of, 22:16227
fuel cycle in U. K. of 1000 MW(e) power thermal, analysis of performance for, 22:46909 (NP-17599, pp 30-40)
fuel cycle management for power, multilevel data-based computer programs for, 25:54129 (A/CONF.49/P-293)
fuel cycle performance for heavy water-moderated 500 MW, analysis of optimum economic, 22:30261
fuel cycles for power, development in Japan of optimum long term, 24:52784
fuel cycles for, computer codes for economic analysis of, 25:23302
fuel cycles for, economics of, 23:40372
fuel cycles for, economics of uranium with plutonium recycle in, 24:50144 (CONF-700401-, pp 710-25)
fuel cycles for, effects of plutonium recycle on, 25:6056
fuel cycles for, effects of transuranium isotope production on economics of plutonium-enriched, (T), 25:41451
fuel cycles for, Italian program for analysis of thorium—uranium, 25:54127 (A/CONF.49/P-186)
fuel cycles for, technical and economic studies of plutonium utilization in, 25:39266 (A/CONF.49/P-71)
fuel cycles for, use of thoria—urania, 21:2835
fuel cycles in power, development in Belgium of plutonium recycle, 25:54128 (A/CONF.49/P-277)
fuel element assemblies for boiling, critical heat flux in simulated 16-rod, (E), 23:52345
fuel element assemblies for natural uranium fueled pressure tube type, description of cluster arranged graphite filled, 24:50125(P)
fuel element assemblies for water moderated, description of varying spaced hexagon lattice, 24:36034(P)
fuel element assemblies for, design of, 21:44895(P)
fuel element assemblies of heavy water moderated boiling, description of pressure tube, 25:54106(P)
fuel element assembly for, analysis of critical heat flux for 150 to 725 psia in, (E/T), 24:43789 (IN-1412)
fuel element cladding defects in, detection of, 21:35779
fuel element cladding failure in, simulation of fission gas release during, (E), 24:26796
fuel element cladding for power, effects of emergency core cooling environment on embrittlement of Zircaloy, (E), 24:52915 (IN-1389)
fuel element cladding for, coolant loss accident effects on rupture of Zircaloy-4, (E), 25:41462
fuel element cladding for, effects of coolant loss transients on Zircaloy, (E/T), 24:36051(R) (ORNL-TM-2984)
fuel element cladding for, effects of coolant loss transients on Zircaloy, (E/T), 24:46071(R) (ORNL-TM-3061)
fuel element cladding for, measurement of krypton-88 for leak characteristics of, 24:43764 (IAE-1893)
fuel element cladding for, neutron radiation effects on coolant loss failure of tube shaped Zircaloy-2 and Zircaloy-4, 24:22406 (ORNL-TM-2850)
fuel element cladding for, performance of zirconium alloy, 25:39294(T) (LB/G-3006)
fuel element cladding of power, effects of coolant loss accidents on failure of Zircaloy, (E), 25:54116
fuel element cladding tubes for, deformation and rupture behavior of Zircaloy-4, (E), 25:60118 (ORNL-4727)
fuel element cladding, effects of metallurgical properties on use of zircaloy, 22:35493
fuel element claddings for, fabrication of zirconium alloy, 21:6798(R) (EURAEC-1738)
fuel element development for, 22:16356 (KR-116)
fuel element development for, review of, 23:35389
fuel element failure detection in, review of FEDAL systems for, 21:17468 (RISO-M-496)
fuel element failure in U. S. power, performance of detection system for, 24:4019
fuel element failure in, in-line calibration of detection systems for, 24:4017
fuel element failures during coolant loss accidents in, effects of assembly configuration on, (E), 25:41467
fuel element failures in, methods for detection of, 25:39230
fuel element for, with means for flooding prevention from core spray cooling system, 23:40371(P)
fuel element heat transfer in, out-of-pile testing of critical heat flux effects on, 24:46416(R) (GEAP-10196)
fuel element meltdown in, hydrogen release from uranium oxide (UO_2)—water reactions during, (E), 25:54159 (IN-ITR-108)
fuel element meltdown in, safety aspects of clad-urania, 21:7967
fuel element of, fission gas detection system for analysis of cladding failures in, 24:4064
fuel element processing for, use of Redox plant for, 21:39001 (RL-SEP-595)
fuel element storage facility for, guide for design basis of, 25:31526 (TID-25697)
fuel element support grid for, description of groove-cut drain in, 23:7431(P)
fuel element surface contamination in, radiochemical studies on, 23:15812 (KURRI-TR-3)
fuel element testing in, 22:2662 (BNWL-479)
fuel elements for 1000 MW(e), design and performance parameters of, 25:34356(T) (JPRS-53069, pp 245-8)
fuel elements for boiling, use of ROBOT computer program for determining effects of bowing of, 23:40366 (CONF-690401-, pp 611-30)
fuel elements for breeder power, revised FIGRO computer program for swelling and temperature distribution in cylinder shaped bulk oxide, 24:29019 (WAPD-TM-618(Add.2))
fuel elements for breeder, CYGRO-3 computer program for deformation and stresses in mixed oxide, 24:36032 (WAPD-TM-961)
fuel elements for breeder, FIGRO computer program for steady state temperature in Zircaloy clad bulk oxide, 24:11190 (WAPD-TM-757)
fuel elements for breeder, in-pile dimensional changes of Zircaloy-4 cladding for, (E/T), 25:51098 (WAPD-TM-973)
fuel elements for breeder, model for analysis of in-pile behavior of, 25:51101
fuel elements for breeder, power and pressure cycling effects on progressive elongation of, (T), 24:46049
fuel elements for breeder, radiation effects on swelling in Zircaloy 4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) pellet type, 24:33313
fuel elements for breeder, use of narrow resonance approximation for computing resonance integrals in cladding of, 24:7081
fuel elements for Canadian, performance of zirconium-clad uranium oxide (UO_2), 22:42155 (AECL-3068)
fuel elements for heavy water reactors and, design of interchangeable, 24:35945(P)
fuel elements for pressure tube, description of cluster arranged cylinder type, 25:37025(P)
fuel elements for steam, stress analyses for austenitic steel and nickel alloy claddings for, 22:32774 (KFK-700(Pt. VIII))
fuel elements for steam, stress analyses for austenitic steel and nickel alloy claddings for, 22:53273(T) (EURFNR-472)
fuel elements for water moderated, design of, 24:31067 (CONF-700502-, pp 534-50)
fuel elements for Westinghouse, facility for fabrication of, 25:311
fuel elements for, analysis for optimum design of rod-type Zircaloy-clad uranium oxide (UO_2), 23:4251
fuel elements for, Cherenkov detectors for detection of clad failures for, 23:2046
fuel elements for, coolant loss accident effects on heating of, (T), 25:51140 (RISO-M-1391)
fuel elements for, corrosion studies on Zircaloy claddings for, 21:44861(R) (WCAP-3269-20)
fuel elements for, critical heat transfer in twisted tape, (E/T), 24:47857
fuel elements for, description of parallel arranged rod type, 24:38644(P)
fuel elements for, description of partitioned cylinder shaped central void, 25:10219(P)
fuel elements for, description of short concentric cylinder-shaped on-power loading, 23:19584(P)
fuel elements for, description of uniform-flow-rate axial-plate, 23:11358(P)
fuel elements for, description of zirconium alloy clad pyrolytic graphite coated particle type, 25:10220(P)
fuel elements for, design and performance of Zircaloy clad uranium oxide (UO_2), 25:23289
fuel elements for, design criteria for optimum economic power density in, 23:28491
fuel elements for, design for efficient heat transfer, 21:34179(P)
fuel elements for, design of, 21:34177(P)
fuel elements for, design of clad ceramic, 24:2995(P)
fuel elements for, design of cylindrical, 21:44909(P)
fuel elements for, design of doubly canned, 22:12513(P)
fuel elements for, design of two-zone uranium-base, 22:38605(P)
fuel elements for, design parameters for, 22:44841 (WASH-1082)
fuel elements for, development of, 25:10101
fuel elements for, economics of use of recycle plutonium, 22:25008

fuel elements for, effects of active fuel length on power burst response of Zircaloy clad uranium oxide (UO_2), (E), 25:51087 (IN-ITR-109)
fuel elements for, effects of axial hole on high exposure performance of metallic uranium, (E), 24:47861
fuel elements for, effects of coolant channel thermal hydraulics on bowing of pin type, (T), 23:28638
fuel elements for, effects of coolant loss accident conditions on, 24:33372
fuel elements for, effects of coolant loss accidents on Zircaloy cladding of, 25:10244(R) (ORNL-TM-3212)
fuel elements for, effects of coolant loss accidents on transient heat transfer to, (T), 25:28662
fuel elements for, effects of coolant loss accidents on Zircaloy cladding of, (E), 24:52951 (ORNL-TM-3122)
fuel elements for, effects of coolant loss accidents on Zircaloy clad, (E), 25:23313(R) (ORNL-TM-3263)
fuel elements for, effects of coolant loss accident conditions on failure of Zircaloy clad rod type, 25:48290(R) (ORNL-TM-2663)
fuel elements for, effects of coolant loss conditions on temperature and performance of Zircaloy clad, (E), 25:48285 (GEAP-13174)
fuel elements for, effects of coolant loss conditions on failure of Zircaloy clad uranium oxide (UO_2) rod type, (E), 25:23342 (ORNL-4635)
fuel elements for, effects of coolant loss on failure of Zircaloy clad, 25:34392(R) (ORNL-4647)
fuel elements for, effects of coolant water temperature on corrosion of Zircaloy cladding for, 21:44862(R) (WCAP-3269-21)
fuel elements for, effects of melting of, 21:40575(R) (STL-372-50)
fuel elements for, effects of repeated ECCS flooding on heat transfer properties of, 23:37573
fuel elements for, effects of steam quality, mass flow rate, and rod diameter on burnout heat flux for, 23:32990(R) (DOCKET-50010-16)
fuel elements for, effects of Type 304 stainless steel and Zircaloy-2 cladding on power burst failure of waterlogged, (E), 25:51088 (IN-ITR-111)
fuel elements for, fabrication costs for, 25:20731 (AECL-3780)
fuel elements for, fabrication of metallic, 22:41024(P)
fuel elements for, failure transient testing of Zircaloy clad, 24:18688 (ORNL-TM-2774)
fuel elements for, in-core pressures from meltdown of, 21:40575(R) (STL-372-50)
fuel elements for, mechanical and thermodynamic tests on, (E/T), 25:25979
fuel elements for, performance of aluminum cladding on, 22:17162
fuel elements for, performance of converging—diverging choked nozzle for entrained gas detection of failed, 25:41432
fuel elements for, performance of plutonium recycle, (E), 25:15365(R) (NEDC-12111)
fuel elements for, power limit tests on, 23:32990(R) (DOCKET-50010-16)
fuel elements for, radiation testing of zirconium alloy clad uranium oxide (UO_2), 25:39293(T) (LB/G-3005)
fuel elements for, review of U. S. development of, 25:39250 (A/CONF.49/P-80)
fuel elements for, use of combined fission gas monitoring and electrostatic precipitator for detecting cladding failure for, 23:2046
fuel elements in Japan for power, irradiation testing of uranium oxide (UO_2), 25:1892
fuel elements in, tracer detection of failed, 21:14117
fuel elements of breeder, effects of power transients on deformation of metal clad cylinder shaped uranium oxide (UO_2) pellet type, (E/T), 24:20569 (WAPD-TM-652)
fuel elements of graphite moderated, analysis of uranium-236 and neptunium-237 buildup in, 24:43840 (DUN-SA-132)
fuel elements of power, calculation of plutonium-236 and plutonium-238 in irradiated, 25:20733 (BNWL-1523)
fuel elements of power, effects of power bursts on failure of clusters of Zircaloy 2 clad uranium oxide (UO_2) rod, (E), 25:51092 (IN-ITR-116)
fuel elements of power, effects of power bursts on failure of Zircaloy 2 clad uranium oxide (UO_2) pellet, (E), 25:51086 (IN-ITR-107)
fuel elements of power, effects of power bursts on failure of Zircaloy 2 clad plutonium oxide (PuO_2)—uranium oxide (UO_2) rod, (E), 25:51091 (IN-ITR-114)
fuel elements of, accident propagation from failure of Ziracloy clad rod type, 25:60126
fuel elements of, description of leaf spring retained annular spacers for cluster arranged, 24:26783(P)
fuel elements of, description of offset on partitioned central voids in rod type ceramic, 25:54105(P)
fuel elements of, effects of coolant loss accident conditions on failure of Zircaloy clad, (E), 24:36046 (CONF-700608-15)
fuel elements of, effects of grid and wire wrap spacers on heat transfer characteristics of rod type, (E), 25:6028
fuel elements of, fission product release and detection of failed Zircaloy 2 clad uranium oxide (UO_2) rod, 25:57047 (JAERI-Memo-4157, pp 2-22)
fuel elements of, measurement of boiling burnout for, 24:11197
fuel elements of, particle size distribution from power burst failure of uranium oxide (UO_2) rod type, (E), 25:8075 (IN-1428)
fuel fabrication for, economics of, 24:11279
fuel for advanced converter, analysis of predicted performance of uranium metal, 23:37533
fuel for, corrosion testing of zircaloy-clad uranium silicide, 23:12388 (AECL-2718)
fuel management in, comparison of homogeneous and discrete calculations for, 21:25639 (WCAP-3269-53)
fuel materials for, summary of properties and performance of, 23:11174
fuel performance in, test code for, 25:5991
fuel performance requirements for, 21:12266
fuel processing economics and experience for, 21:40954 (CONF-670542-, Paper 9)
fuel production methods for, 21:27836
fuel recycle in Belgium for, review of plutonium enrichment for plutonium oxide (PuO_2)—uranium oxide (UO_2), 23:37534
fuel recycle in, economics of plutonium, 25:15375 (CONF-691114-6)
fuel requirements for, effects of breeder reactors on economics of, 23:31144
fuel rod and bundle vibrations in two-phase flow in, (E/T), 24:33303
fuel rod assemblies for marine, model studies for lateral vibration effects on, (E/T), 22:48718
fuel rod clusters in, effects of radial power distribution on critical heat flux in, (E/T), 24:33291
fuel rod failure in, effects on safety, 25:2610 (ORNL-4570, pp 205-12)
fuel rod vibration characteristics in boiling, (E), 24:33304
fuel rod vibration in two-phase parallel flow in, (E/T), 24:33302
fuel rods for, Monte Carlo calculations of anisotropy of neutron migration in, 24:7307
fuel storage pool building for power, effects of tornado on, 23:37429
fuel supply for, summary of uranium requirements, economics, and reserves for, 23:13381
fuels for plutonium oxide(PuO_2)—uranium oxide(UO_2) fueled, development of plutonium recycle, (E), 25:25986 (RT/FI-(70)48)
fuels for power, fabrication and performance of ceramic, 24:43751 (BNWL-1435)
fuels for thermal power, review of physics data for use of plutonium in, 22:37407 (BNWL-801)
fuels for thermal, development in Japan of plutonium oxide (PuO_2)—uranium oxide (UO_2), 25:54094 (A/CONF.49/P-821)
fuels for U. S., projected uranium requirements for, 25:25863
fuels for, criticality of, effects of composition and configuration on, 23:17522 (Y-DR-9)
fuels for, economics of blending and diffusion in recycle of uranium, (T), 24:43782
fuels for, economics of plutonium-enriched, 21:5622 (NUS-259)
fuels for, fabrication and reprocessing facilities in U. S. for, 25:39130 (A/CONF.49/P-62)
fuels for, fluoride volatility techniques for reprocessing of, 22:40175 (KR-126, pp 342-60)
fuels for, high temperature performance of silicon carbide (SiC) coated particle type, 25:57053
fuels for, properties of plutonium—uranium oxycarbide, 21:32986
fuels for, reprocessing of, chemical and mechanical methods for, 24:16666
fuels for, review of program for plutonium utilization in, 25:46263 (BNWL-SA-3865)
fuels for, shielding requirements and testing of containers for shipping spent, 25:48846 (CONF-710801-(Vol.2), pp 652-63)
fuels for, two-dimensional method for burnup analysis of, 25:18111
fuels for, utilization of plutonium, 23:2130 (BNWL-SA-2065)
heat exchangers for, description of steam-generating closed-loop triple concentric annular-chambered heat pipe for, 22:42277(P)
heat removal from, literature survey of heat transfer mechanisms for, 23:520 (AAEC/TM-468)
heat transfer calculations for fast steam, 22:16200
heat transfer in multirod coolant channels of, study of boiling, (E), 25:54870(R) (GEAP-10347)
heat transfer in, equation for burnout heat flux analysis of, (T), 21:1218 (CONF-660606-38)
heat transfer in, evaluation of, 22:14155
heat transfer measurements for, use of heated metal spheres for forced-convection, 22:30118 (ANL-7438)
inspection standards for water cooled power reactor, ASME, 24:20481
instrumentation for power, description and performance limits of coolant loss accident monitoring, 25:8044
instrumentation for power, review of in-core, 23:34886
instrumentation for, descriptions and requirements for nuclear startup and operations, 23:37481 (CONF-680625-3)
instrumentation for, design and performance of safeguards control, 24:47834 (PEL-200)
instrumentation for, review of, 23:746
instrumentation for, summary of in-core hydraulic and thermodynamic, 22:48662
iodine release in, distribution of molecular, 21:46999(R) (AERE-PR/HPM-11)
kinetic equations for, formulations of microscopic multigroup cross sections for solution to, 23:49651 (ANL-7410, pp 387-442)
kinetics and safety review on, 21:15731
kinetics for, TWODIM SYSTEM of computer programs for calculation of, 25:25967 (RISO-235)
kinetics of, (E/T), 25:41405
kinetics of, safety aspects of, 21:46906
kinetics of, summary of safety studies on, 22:12063
licensing process for, explanation of, 22:39774 (IDO-17272)
loading machine for vertical core, with electric inductance position indicator, 23:47205(P)
loading machine for, description of tube connected, 23:52355(P)
loading machine for, design parameters of double prehension, 25:10329(P)
loading machine for, with means to minimize volume of water in machine head, 25:44213(P)
loading of plutonium-fueled, procedures and configuration for optimum, 23:2130 (BNWL-SA-2065)
material for, properties of austenitic stainless steel, 25:27214(P)
materials for, evaluation of mild steel as, 21:16561
materials selection for components in, 21:38442 (BNWL-SA-1193)
moderator and reflector materials for, summary of properties and performance of, 23:11174
neutron buckling measurements in, 21:40595
neutron diffusion equations for two-dimensional cylindrical, use of discontinuous variational synthesis technique for solution static multigroup, 23:49651 (ANL-7410, pp 387-442)
neutron distributions in nonuniform lattice, transport solutions for two-dimensional multigroup thermal, 23:4188
neutron flux distribution in breeder, effects of delayed neutron fractions on few group space—time analysis of, (T), 24:28997 (WAPD-TM-938)
neutron flux distribution in, design and testing of in-core ionization chamber for, 25:8061
neutron flux distributions in low power, (T), 25:51049
neutron flux in, ORPHEE VI code for calculation of fast, 24:52993(T) (ORNL-tr-2357)
neutron flux measurement in, design of fission chamber for, 25:60046
neutron fractions for breeder, BE-21 computer program calculation of effective delayed, 24:28998 (WAPD-TM-941)
neutron multiplication factors in, effects of temperature and density on effective, 23:37467
neutron physics calculations for, techniques for solution to transport equation describing, 22:14172
neutron spectra and reaction rates in, theoretical model for determining effects of resonance scattering on thermal, 24:7084
neutron spectra in thermal, buckling calculations from, 23:4411
neutron spectra measurement in, performance of threshold detectors for measuring, 23:50144
noise in boiling, determination of power spectrum from, (T), 24:47951 (CONF-680980-, pp 197-210)
operation in Switzerland, review of, 24:13503
operation in U. S., summary of, 25:39170 (A/CONF.49/P-36)
operation in U.S. of power, economics of, 24:35959
operation in U.S. of power, review of, 24:28926
operation of 1000 MW(e) fast, systems analysis for optimum, 22:5924 (EURFNR-405)
operation of power, analysis of optimum fuel cycle, 22:37504
operation of power, review of capacity and availability factors for, 25:56893 (70-CNA-631)
operation of U.S., summary of, 25:25883 (KKWP-1/1970)
operation of water moderated power, analysis of problems related to, 24:28860
operation of, emergency situations and protective measures during, 25:48293
operation of, mathematical models for transient, 25:3919
operations aspects of U.S, 25:54047
operations incidents at power, review of, 25:48225 (ORNL-TM-3435)
operator training for power, use of simulator for, 23:28395
oxygen production in, effects of ammonia on, 21:16561
performance of power, analysis of plutonium recycle utilization, 23:21496
performance of, physics and dynamics calculation methods for, 24:40906 (AEEW-R-691)
personnel for, guide for selection and training of, 25:31526 (TID-25697)
physics analysis of power, review of computer methods for, 23:34885
physics calculations for graphite moderated coupled core, cross spectral density sink frequency for, (E/T), 25:10278
physics calculations for graphite moderated coupled core, cross spectral density sink frequency for, (T), 25:10275
physics calculations for graphite moderated coupled core, cross spectral density sink frequency for, (E/T), 25:10279
physics characteristics of operating boiling, description of methods for measuring, 24:7024
physics characteristics of water-moderated, with burnable poison rods, (E/T), 22:20812 (FEI-88)
physics measurements for 100 MW(e) fast, use of SNEAK 3A-1 reactor for, 22:6091 (EURFNR-396)
physics measurements for fast breeder, effects of core shape and steam pressure and temperature on, 22:27401 (BNWL-713)
physics measurements for heavy water moderated natural uranium fueled fog cooled, effects of core configuration on, (E/T), 24:4040 (CISE-R-116)
physics measurements for, use of NORA critical assembly, 24:38606 (STI/DOC-10/113)
physics measurements in water-moderated, lattice spectra, (E/T), 21:19355(R) (GA-7378)
physics parameters for, use of resonance frequency and width for determining, 23:11184 (RCN-98, pp 439-58)
physics parameters of mobile, with burnable poison rods, (E/T), 25:23384
piping for, characteristics of hot leg of primary, 22:25010
piping systems for power, design requirements for high pressure and high temperature, 25:18131
plugging tool for, description of top-inserted double-walled pipe control rod replacement, 22:48759(P)
poison depletion at various burnup levels in, BEVE code for calculation of gadolinium, 25:48344 (RT/FI-(71)1)
poison rods in, effects on reactivity of burnable, 22:42355(T) (ANL-Trans-637)
population density in vicinity of, AEC recommendations for, 21:14643
power and water production from, combined U. S.-Mexico feasibility study on, 23:13418 (TID-24767)
power distribution in enriched uranium oxide (UO_2) fueled, (E), 24:33545(R) (BAW-3647-16)
power distribution in large, effects of transients in spatial distribution of xenon on, (T), 23:28443

power distribution in plutonium oxide (PuO_2)—uranium oxide (UO_2) lattices in, accuracy of methods for calculation of, (E/T), 24:16169
power distribution in, (E/T), 25:41405
power excursion and blowdown analysis for, RELAP2 computer program for, 22:39773 (IDO-17263)
power excursions in cone pressure coolant channel of, hydraulics and thermodynamics of, (E), 24:1976 (CEA-R-3497)
power excursions in, thermal and hydrodynamic instabilities in simulated, (E/T), 23:19492
power from, production of commercial, 22:12038
power generation from, cost characteristics of, 23:28385
power level increases in VVR-S, methods for achieving, 21:35601
power level of, effects of cladding roughening on, 24:26784
power of, limiting ratio of maximum thermal neutron flux to, (T), 25:23401
power output from, use of twisted-tape fuels for increased, 22:25001
power production economics of, 22:48649 (NEB-SS-21)
power shape tailoring in water-moderated, achievement of constant fuel-centerline temperature by axial, (T), 23:4405 (N-68-28304)
power supplies for, guide for diesel generator set capacity for, 25:31526 (TID-25697)
power supplies for, guide for redundant standby, 25:31526 (TID-25697)
power supply for power, design requirements of emergency, 24:41025
power threshold for nucleate boiling and flow instability in, effects on safety of, 21:27714
power variation following loss-of-coolant accident in, digital and analog analysis of, 22:25027
pressure equalizer for vertical fuel channel downward-flow, description of valve-regulated cooling system, 22:46977(P)
pressure loss incidents in boiling, use of glass vessel models for simulation of, 24:9135
pressure tubes for, radiation effects on, 23:16498 (BNWL-746, pp 6.1-10)
pressure tubes for, testing Zircaloy-2, 23:16481 (BNWL-746, pp 5.1-16)
pressure tubes of, thermal insulation for zirconium alloy, 24:5532(P)
pressure vessel design for, using TEMPER code for concrete, 21:12175
pressure vessel for 600 MW(e) Scandinavian, model testing of prestressed concrete, 23:37496
pressure vessel for boiling, thermal insulation for walls of prestressed concrete, 24:36093(P)
pressure vessel for integral, description of flange-supported multiple coolant conduits in cylindrical, 23:2001(P)
pressure vessel for water-moderated, for restricted heat transfer, 21:12205(P)
pressure vessel for, analysis of crack failure characteristics of thick wall steel, (E/T), 24:38590 (BNWL-1397)
pressure vessel for, analysis of intergranular corrosion cracking of Type 304 stainless steel, 24:50079
pressure vessel for, description of water-sealed gas-insulated inner wall, 22:20891(P)
pressure vessel for, testing of models of prestressed concrete, 25:29314
pressure vessel liners for, welding methods for stainless steel, 21:45873
pressure vessel mount for water-moderated maritime, description of multiple curved duct-connected dry and wet well, 22:48717(P)
pressure vessel of, analysis of blowdown actuated void fraction profile in, (E/T), 24:29035 (BNWL-1295)
pressure vessel of, Heavy Section Steel Technology program for safety assessment of, 25:51022
pressure vessel pressure transients for, computer program analysis of cooling system rupture-initiated, 23:4289
pressure vessel prestressing for, use of steel rings for concrete, 22:44829(T) (ORNL-tr-1966-b)
pressure vessel surveillance program for, 24:32468 (BAW-10006(Rev.1))
pressure vessels for 1000 MW(e), design and cost data for prestressed concrete, 24:16182 (EUR-4280(Vol.1), pp 393-416)
pressure vessels for boiling, effect of design basis accident on brittle fracture of, (T), 24:11210 (NEDO-10029)
pressure vessels for European, data compilation on, 21:25622 (DANATOM-01-67)
pressure vessels for power, effects on total cost of, 22:44841 (WASH-1082)
pressure vessels for power, standards for thermal shock analysis of coolant loss accidents in, 25:28683
pressure vessels for, availability of data on radiation effects on, 22:35658(R) (AD-663879)
pressure vessels for, construction and evaluation of thermally insulated prestressed concrete, 24:16321 (EUR-4280(Vol.1), pp 289-303)
pressure vessels for, description of cast iron, 25:37153(P)
pressure vessels for, description of concrete hot-liner, 22:44831(T) (ORNL-tr-1966-d)
pressure vessels for, description of screen type thermal insulation for prestressed concrete, 24:52912(P)
pressure vessels for, design and fabrication of prestressed concrete, 22:27436
pressure vessels for, design and fabrication of steel, 22:10082 (ORNL-NSIC-21)
pressure vessels for, design criteria of materials for, 22:19600
pressure vessels for, design parameters of prestressed concrete, 25:31550 (EUR-4531, pp 601-13)
pressure vessels for, development in Sweden of prestressed concrete, 25:31562 (IAEA-126, pp 213-41)
pressure vessels for, development of construction principles for, 23:23900
pressure vessels for, development of prestressed concrete, 25:12788
pressure vessels for, effects of coolant conditions on design and safety criteria for prestressed concrete, 23:11226
pressure vessels for, effects of cooling pump failure on transient temperature distribution in walls of, (T), 25:46261
pressure vessels for, effects of γ radiation heating on transient temperature distribution in steel, (T), 24:36025
pressure vessels for, effects of power rating on design parameters for, 22:25010
pressure vessels for, European techniques for fatigue analysis of, 24:52947 (EUR-4467)
pressure vessels for, fabrication procedures for, 21:40571(R) (ORNL-TM-1913)
pressure vessels for, fatigue testing of welded nozzle connections of, 24:13541 (APED-5592(Pt.4))
pressure vessels for, fracture behavior of heavy-section steel, 24:25235
pressure vessels for, guide for analysis of thermal shock effects on, 25:31526 (TID-25697)
pressure vessels for, heavy section steel testing programs for, 25:48294
pressure vessels for, HSST program for, 25:26008
pressure vessels for, inspection of materials for Japanese, 22:30805
pressure vessels for, installation of double-end-weld electrical penetration assemblies in, 23:47675
pressure vessels for, joint Scandinavian project for development of prestressed concrete, 24:26766
pressure vessels for, means for uniform stress distribution in prestressed concrete, 25:60069(P)
pressure vessels for, operating parameter effects on steel, 23:23901
pressure vessels for, performance and properties of steel, 25:19222
pressure vessels for, performance prediction methods, 23:24861 (ORNL-4377, pp 97-109)
pressure vessels for, radiation damage factors in design of, 21:46969
pressure vessels for, radiation damage to steels in, 21:40628
pressure vessels for, reactivity accident requirements for rupture of, (E), 24:36065(R) (IN-1370)
pressure vessels for, requirements for prestressed concrete, ·22:25011
pressure vessels for, review of research and development programs on HSST, 25:8045
pressure vessels for, section models for testing construction procedures for prestressed concrete, 25:31547 (EUR-4531, pp 477-88)
pressure vessels for, steel, 21:40571(R) (ORNL-TM-1913)
pressure vessels for, stress analysis of prestressed concrete, (E/T), 25:56991
pressurizer in primary circuit of, use of heat exchanger for steam pressure regulation in, 22:42265(P)
process water for, equipment for production of, 25:48275
protection system for boiling, Common Mode Failure analysis of, 24:40942
protection systems for General Electric, compliance to industry criteria of, 24:38394 (NEDO-10139)
pump motor for power, development of 9000 hp 1200 rpm cooling system, 23:34948
pumps for power, performance requirements of, 24:29008
pumps for, description of hermetically sealed, 22:22784
radiation chemistry of ammonia and nitrogen in, 22:27768
radiation levels in, analytical techniques and equations for determining, 21:44843(R) (IDO-17239)
radiation monitoring in U.S.S.R, 25:53987 (A/CONF.49/P-687)
radioactive effluents from power, proposed amendments to U.S. regulations on, 25:1810 (CONF-700408-4)
reactivity accidents in, effects of moderator feedback on, (E/T), 25:46284
reactivity control in pressure tube type, use of water inventory for control of, 23:47178(P)
reactivity control of, radiometric device for determining boric acid concentration for, 22:25685
reactivity effects on transients in, 21:31978
reactivity excursions in, European techniques for analysis of, 24:52947 (EUR-4467)
reactivity excursions in, shock generation in pressure vessel from, 22:3870
reactivity measurements in, effects of core components on, 24:46013 (BNL-50205, pp 1-15)
reactivity of fuel in, calculation of, 21:5603 (BNWL-305)
reactivity temperature coefficient for, passive statistical method for determining, 23:11184 (RCN-98, pp 439-58)
reactivity transients in, PARET code for analysis of nondestructive, 23:47223 (CNM-R-2(Vol.2), pp 664-80)
reactivity variations in, effect of coolant pH on, 23:15622
refueling tube for, description of bottom penetrating, 25:28836(P)
safety analysis of EURATOM, methods used for treatment of technical problems in, 23:37364 (CONF-681101-37)
safety analysis of German 1000 MW(e) fast breeder, 21:44847 (KFK-613)
safety analysis of power, review of European techniques for, 24:52947 (EUR-4467)
safety analysis of, operational and economic, 21:46883
safety aspects in U.S. of power, information program for, 24:50052
safety aspects of, 22:25017
safety aspects of power, 25:60131
safety aspects of, notes for lectures on, 23:2058 (NP-17649(Vol.2))
safety aspects of, review of research and development programs on, 24:50159
safety evaluation methods for, state-of-the-art review of, 25:51139 (NP-18987)
safety guides for, 25:31526 (TID-25697)
safety of German 1000 MWe fast breeder steam, analysis of, 22:53365
safety of German, design and performance of systems for, 25:54146 (A/CONF.49/P-365)
safety of power, engineered safeguards used for, 22:27444
safety of, chemical aspects of, 25:57090 (ORNL-4717, pp 91-107)
safety of, control and protection measures for, 25:34389(T) (JPRS-53069, pp 64-73)
safety of, effects of pressure pulse propagation in coolant two-phase mixtures on, (E/T), 25:37035 (ANL-7792)
safety of, emphasis on better core design and construction rather than consequence-limiting devices for, 22:18448
safety of, missile protection criteria in, 25:23317
safety of, research progress summaries to Nov. 1969, 24:16225
safety of, review of research and development projects on, 25:12805
safety of, status of U. S. AEC projects on, 24:13582
safety of, status of U. S. research programs on, 25:39270 (A/CONF.49/P-39)
safety of, summary of research and development May—June 1968 on, 22:22752
safety program for, summary of UKAEA, 22:42210 (TID-24564)
safety program plan for, description of U. S. AEC, 24:22433 (WASH-1146)
safety programs for, outline of, 22:44855
safety programs for, summary of progress in research and development in, 23:9190
safety programs in U.S. for, review of HSST, 24:31089
safety report lists, 21:40571(R) (ORNL-TM-1913)
safety requirements for design, construction, and operation of power, review of U.S. and Denmark, 23:31187
safety requirements for, outline of, 22:53364
safety research and development for, summary of, 21:40629
safety research and development programs for, review of, 24:22443
safety research and development programs on, review of, 23:43132 (CONF-670846-, pp 70-94)
safety research on, review of, 21:25689
safety review of European, treatment of specific technical problems in, 23:4153
safety studies for thermal, analysis of coolant loss and coolant energy transfer, (E), 22:37402 (ANL-7450, pp 75-89)
safety studies for, diffusion of iodine in water for, 21:34245 (CEA-R-3199)
safety system for boiling, reliability of Dual Bus Reactor Protection System as, (T), 22:24931 (APED-5179)
safety system for, description of shutdown flooding, 22:10030(P)
seismic response of, guide for instrumentation for determination of, 25:31526 (TID-25697)
shielding during loading of, use of hot-water layer and water spray for, 22:44938(P)
shielding for power, design methods and requirements of, 25:5977
shielding for, calculations for secondary, (E/T), 24:47848 (CEA-N-1331)
shielding for, effects of configurations on performance of, 25:55043 (RD/B/N-2034)
shielding for, ORPHEE D computer program for fast neutron distribution in side, 24:43727 (CEA-N-1311)
shielding of, ORPHEE 4 computer program for fast neutron flux in side, 24:24817 (CEA-N-1244)
shutdown instrumentation for power, analyses of testability and circuit or component failures in, 24:3992 (ORNL-NSIC-29)
shutdown system for, description of water pressure-supported gravity-driven cylindrical rod, 22:39840(P)
shutdown system for, optimum test intervals for, (T), 24:47841
simulation of fast breeder, use of analog computer for, (T), 22:32770 (KFK-657)
sites for combined U. S.-Mexico dual-purpose, description of various, 23:13418 (TID-24767)
spray cooling systems efficiency for, relation between containment system pressure and, 22:42197(T) (NSJ-tr-112)
stability analyses for boiling, effects of void distribution and core dimensions on three-dimensional spatial, 23:28444
stability characteristics of, effect of coolant pass arrangement on, (T), 22:30152 (KAPL-P-3180)
stability in boiling, two-phase flow hydrodynamics equations for determining xenon, 23:37465
stability of 1000 MW(e) steam-cooled fast power, effects of design parameters and control systems on, (T), 22:37399 (AE-321)
stability of breeder, effective delayed neutron fraction for few-group space time analysis of, 24:33260
stability of fast breeder, effects of coolant feedback during accidents on, 22:3829 (EURFNR-406)
stability of heavy water-moderated boiling, analog simulation of hydraulic and nuclear, 22:20777 (BNWL-574)
stability of large, coupled core model for analysis of, 24:47955 (CONF-680980-, pp 351-61)
stability of natural convection cooled, (E/T), 24:43725 (CEA-R-3890)
stability of steam-cooled fast breeder, effect of integrated cooling cycle on, (T), 22:20846
stability of, analysis of thermohydraulic, (E/T), 22:30147 (EURAEC-1984)
stability of, effects of feedback on, 22:25018
stability of, effects of subcooled boiling on, (E), 21:13988(R) (STL-372-47)

stability of, model for analysis of, (E/T), 24:50092
stability parameters for fast breeder, measurement of, 22:5921 (EURFNR-398)
standards for, development of engineering, 25:10244(R) (ORNL-TM-3212)
standards for, development of engineering, 25:48290(R) (ORNL-TM-2663)
standards for, development of engineering, 25:57092(R) (ORNL-TM-3483)
standards for, development of engineering, 25:48291(R) (ORNL-TM-3411)
standards for, development of engineering, 25:23313(R) (ORNL-TM-3263)
standards for, development of engineering, 25:34393(R) (ORNL-TM-3342)
standards program for, national laboratory contributions to RDT, 25:41366 (CONF-710315-11)
startup of natural convection power, analog model analysis of, (E/T), 23:40356
steam condensate treatment systems for, 25:18145
steam cycles for steam-cooled, using the Loeffler principle, 22:16231
steam generator design for, 21:21690(P)
steam generator for, design of high efficiency, 24:9559(P)
steam generator for, design of improved, 22:19022(P)
steam generators for, design parameters for, 22:25010
steam regeneration in power, method for analysis of optimum conditions for, 23:47199
steam separation in, stand for testing cyclones for, 24:13542(R) (EURAEC-2128)
steam separator for power, design parameters and operation characteristics of trap cyclone, 25:20769
steam separator for, design and testing of radial vane, 22:30150(R) (GEAP-5597)
steam separator for, design of high efficiency, 24:9559(P)
steam separator system for power, 25:20743(P)
steam separators for, design data for, 22:25013
steam separators for, fundamental vibration frequency of radial vane internal, (E/T), 24:52883 (ANL-7685, pp 335-43)
steam supply systems for, standards for performance testing of, 25:34344
steam—void formation in, in-core capsule measurements of, 21:40575(R) (STL-372-50)
structural materials for steam, corrosive effects of superheated steam on, 22:32775 (KFK-700(Pt. IX))
structural materials for steam, corrosive effects of superheated steam on, 22:53273(T) (EURFNR-472)
structural materials for, γ heating of, (E/T), 25:60022
structural materials for, review of corrosion of, 25:24537 (KAPL-P-3929)
structural materials for, summary of properties and performance of, 23:11174
structural systems in, STRAP code modeling procedure for static and dynamics analysis of, 24:36049 (IN-1362)
thermal insulation for, design of, 21:28739(P)
thermal insulation for, performance of gas and water cooled metal plates for, 25:31578 (EUR-4531, pp 1085-97)
thermal insulation for, performance of honeycomb metal, 25:31577 (EUR-4531, pp 1063-78)
thermodynamics for open lattice core, HOTRAN computer program for calculation of steady state and transient, 25:23257 (KFKI-70-34-RPT)
thermodynamics for research, (T), 25:37058 (CEA-R-4114)
transfer function determination for, from noise analysis, (T), 22:14291 (CEA-R-3327)
transfer function measurements during subcooled boiling in, power-void, 21:40575(R) (STL-372-50)
transient over-power conditions for uranium oxide (UO_2) fueled, (E), 24:36047(R) (IN-1319)
transients in uranium oxide (UO_2) fueled, EUREKA code for analysis of, 25:51138 (JAERI-13592)
transients in, probability of operational, (T), 25:51146
tritium generation and control in, review of, 23:28526
turbine design for, 21:7905
turbine design for, 21:7982
turbine design for, 22:16230
turbines for power, design of saturated steam, 22:18492
turbines of, use of iron oxide or lead base compounds for shielding of, 24:4047(P)
uranium from, fuel loading of heavy water reactors with depleted, 23:11240
use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
use of slightly enriched uranium-fueled low-temperature, for desalination, 21:23705(R) (ORNL-4087)
utility commitments for light water, tabular summary as of October 1967, 22:44841 (WASH-1082)
valves for, standards for in-service testing of, 25:34394
vibrations in marine, effects of design alterations on, 24:43833(T) (CONF-700211-5)
waste from, estimation of, 23:356 (ORNL-4272, pp 72-91)
waste management systems for, review of, 25:18043
water contamination in, 21:45220
xenon effects in, analysis of nonlinear, 23:4191
xenon oscillations in heavy water moderated boiling, three-dimensional analysis of spatial, 23:28444

REACTORS, WATER-MODERATED
see also Air Force Engineering Test Reactor
see also Aircraft Shield Test Reactor
see also Argonaut Reactor
see also Argonne High-Flux Research Reactor
see also Army Reactors (SM-1)
see also Barsebaeck Power Reactor, Unit 1
see also Belgian Reactor-3
see also Boiling Reactor Experiments
see also Brookhaven Medical Reactor
see also Brookhaven Neutron Source Reactor
see also Bulk Shielding Facility
see also Dresden Power Reactor, Unit 1
see also Dresden Power Reactor, Unit 2
see also Dresden Power Reactor, Unit 3
see also Engineering Test Reactor
see also Experimental Boiling-Water Reactor
see also Fontenay-aux-Roses Reactors (Triton)
see also General Electric Test Reactor
see also Grenoble Reactors
see also Grenoble Reactors (Melusine)
see also Grenoble Reactors (Siloe)
see also Homogeneous Reactor Experiment
see also Indian Point Power Reactor, Unit 1
see also Japanese Materials Testing Reactor
see also LIDO
see also Los Alamos Omega West Reactor
see also Los Alamos Power Reactor Experiments
see also Lynchburg Test Reactor
see also Materials Testing Reactor
see also Michigan Research Reactor
see also Mihama Power Reactor, Unit 1
see also Mihama Power Reactor, Unit 2
see also Monticello Power Reactor, Unit 1
see also NASA Research Reactor
see also NRL Research Reactor
see also Nuclear Test Reactor
see also Obrigheim Power Reactor
see also ORNL High-Flux Isotope Reactor
see also ORNL Research Reactor
see also Oskarshamn Power Reactor
see also Pennsylvania Research Reactor
see also Shippingport Pressurized-Water Reactor
see also Sioux Falls Power Reactor
see also Spanish Reactors (JEN-1)
see also Submarine Reactors
see also Swedish Reactors (R-2)
see also VAK Reactor
see also Vallecitos Superheat Reactor
see also Yankee Power Reactor
accidents in urania-fueled water-cooled, analysis of reactivity in, 21:15727
accidents in, evaluation of point kinetics methods for analysis of rod ejection, 23:37592
acoustical noise from boiling in, 21:34523 (ORNL-4091, pp 136-82)
analysis of thermal and hydrodynamic behavior of, CACTUS code for, 21:3207 (CEA-R-3039)
boiler feed pump for, design and development of, 21:15683
boiling detection methods for, testing of, 25:6048
chemistry in, 21:22841 (ORNL-4076, pp 55-79)
component failures in, tabular summary of, 25:18064(T) (LIB/Trans-322)
computer systems for on-line measurements in, 21:34175
configuration of ring-sealed multiple assembly-fueled triple-pass water-cooled pressure vessel-contained marine, 22:42337(P)
containment for, use of energy absorption for, 21:31898(R) (ANL-7329)
containment spray system for, 21:40571(R) (ORNL-TM-1913)
control element programming in, effects of refueling schemes on optimum, (T), 25:60101
control element worth calculations for power, use of effective boundary conditions for boron carbide (B_4C) cluster arranged cylindrical, (E/T), 23:23879
control elements for thermal, effectiveness of reflector enclosed rotating cylinder shaped, (E/T), 24:5520
control elements for, neutron transmission characteristics of uniform type, (E/T), 24:52865
control elements of, comparison of design configurations for, 24:29002
control of, using helium-3-filled elements, (E/T), 21:8030
control rod drives for, description of pneumatic, 22:37470(P)
control rod worths in uranium oxide (UO_2) and uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled lattices in, (E/T), 24:47820 (BNWL-1379)
control systems for rocket, performance of helium-3, 22:35575
coolant analysis for boron, development of concentration meter for, 21:17567(R) (WCAP-3690-2)
coolant boiling studies for, summary of transient, 21:6131(R) (SAN-1013(Vol.1))
coolant channels for, model for calculation of void distribution in subcooled local boiling region of, 25:39239
coolant filters for sorption of iodine, design of, 21:6118
coolant flow effects on transient processes in, 21:31976
coolant for, dissolution of gases in water, (T), 23:45077
coolant loss accident in water cooled power, analysis of fission product release during, 25:57104
coolant loss accidents in, fission product behavior from, 21:30148 (IDO-17237)
coolant loss conditions for, analysis of radiolytic decomposition of water in, 23:28528
coolant thermodynamics for, effects of pressure and temperature on density and enthalpy, (T), 22:32768 (KAPL-M-6734)
coolant void fractions in, design of void-meters for measuring, 22:12691
coolant-loss accidents in, methods of analysis of, 21:25664
cooling channels of water cooled, computer program for thermal and hydraulic analysis of, 25:28679 (EUR-4553)
cooling requirements for tungsten rocket reactor, analysis of postshutdown, 22:39866 (N-68-21111)
cooling system of water cooled power, description of ASME inservice inspection code for, 23:31188
cooling systems for, calculation of natural circulation in, (T), 24:50106
cooling systems for, iodine deposition in primary, 22:14132(R) (BMI-X-10213)
core configuration of, description of positive power coefficient for center-region, 22:37486(P)
core design and analysis for 600-MW(e) boiling, high power density, 21:17448(R) (GEAP-4974)
core design for gas-cooled, 21:7996(P)
core for superheating power, design parameters of, 23:19472(P)
core for, local burnup distribution for optimization of total burnup in, (T), 24:26824
core neutron spectra measurements in, design and performance of proton-recoil proportional detector with pulse shape discrimination for, 22:33659 (IN-1054)
core of pool type, source of photoneutrons following shutdown in, (E), 24:2027 (DOCKET-50128-15)
core reactivity measurements in PR-10, effects of control elements on, 22:1757 (EUR-3615(Vol. 1))
core spray cooling systems for, fuel element cooling by, (E), 21:2841
core structure of, effects of aluminum fast scattering in, 22:5916 (AEEW-R-551)
core support construction for, 22:32804
core with fuel elements surrounding moderator tubes in, design of, 21:25701(P)
core-evolved gases in BER, catalyst for recombination of, 21:30269
corrosion products build-up and behavior in core of, 21:25677
corrosion products build-up and behavior in out-of-core parts of, 21:25677
cost for U.S. water cooled power, effects of power output capacity on, 25:34387
critical experiments on fuel elements in NUSU superheater mockup, description and analysis of, 21:31905 (CEND-161)
criticality calculations for plutonium fueled, group constants for, 25:51226 (JAERI-13507)
criticality measurements for 3 to 5 percent enriched uranium oxide (UO_2) fueled, calculational methods for, (E/T), 22:22761
criticality measurements in, computer program for, 22:24932 (BNWL-735)
criticality of, limiting ratio of maximum thermal neutron flux to power for, (T), 24:47964
description and economics of European, 21:42734
description of dual- and single-purpose desalination, with multi-stage single-effect flash evaporator for optimum economic operation, (T), 22:27456
description of multi-element fueled and multi-channel cooled, operating at 2800 to 3200 lb/in.^{2}, 22:14228(P)
description of pressure vessel type, with supercritical water moderator and coolant, 22:48668(P)
description of water-cooled, 22:18532(P)
descriptive parameters of, tabulation of, 21:27723
design and fabrication of, using integrated construction methods, 21:12163
design concept for two 3000 MW(t) dual-purpose desalination water-cooled power, description of, 22:42353
design for critical pressure operation, 21:42787(P)
design for marine propulsion, 21:23700(P)
design of, 21:5648(P)
design of boiling, with segmented core for reactor control, 21:10186(P)
design of pulsed, use of high-performance urania fuel elements in, 21:25621 (CONF-670501-3)
design of small marine, 21:46931(P)
design of small prefabricated, for use in activation analysis, 21:12251(P)
design of thoria—uranium-233 epithermal breeder, 21:31901 (BNL-11463)
design of uranium—zirconium hydride fueled, with controlled negative temperature coefficient of reactivity, 21:46923(P)
design of, book on, 24:38396
design parameters for Japan marine, analysis of, (E/T), 23:9222 (JAERI-1166)
design parameters of, 21:13981 (NP-16364)
design parameters of low power water cooled, analysis of optimum economic, 25:28640
design using leakage neutron flux for superheating, 21:27776(P)
design with self-regulating cooling and control system for, 21:40647(P)
development in Sweden of 100 to 300 MW(e) boiling, economics for, 23:37401
development in U.S.S.R. of water cooled power, review of, 24:18592
development in U.S.S.R., summary of, 25:54038 (A/CONF.49/P-693)
development in Yugoslavia of, economics for, 22:24995
development of boiling power, review of, 24:13509
development of boiling power, review of, 24:18566
development of power, 25:25963
development of power, economic potential of, 22:18498
development of water cooled power, analysis of optimum, 24:43780
economics in Europe of uranium fueled, 21:44880
economics of epithermal breeder, 21:38575
economics of further European development, 21:34121
economics of German thermal power, 22:48709
economics of power, review of, 21:23655
economics of, effects of heavy water reactor optimization principles on, 24:9129
economics of, using slightly enriched uranium fuel, 21:17498
evaluation of small core, 21:32018
excursions in uranium oxide (UO_2) fueled, effects of Doppler effect on self-limiting power, 23:26100
excursions in water-cooled, analysis of self-limiting power, (E/T), 23:13547
excursions in, effects of transient voids on analysis of superprompt critical, 21:38494
excursions in, HYDRAX computer program for energy release from, 23:21504 (IDO-17275)
excursions in, model for reactivity effect of subcooled boiling during, (T), 24:40932 (RT/FI-(69)51)
fission product release in power, under normal and accident operating conditions, 23:52383 (IDO-17292)
fission product transport in power, analysis of coolant loss actuated, (T), 24:36050 (IN-1380)

- fuel assemblies for water-cooled, description of center-positioned burnable poison rod in equally spaced multiple rod annular, 22:42232(P)
- fuel assemblies for water-cooled, description of concentric cooling and insulating cylinder-enclosed multiple rod annular-shaped, 22:42233(P)
- fuel assemblies for, design of stainless-steel spacer supports for, 21:46926(P)
- fuel burnup calculations for water-cooled, two- and three-dimensional programs for, 22:5935(T) (JPRS-42542)
- fuel burnup for, BURNY-2 and BURNY-5 computer programs for calculation of, 25:48242 (RT/FI-(71)8)
- fuel burnup in lattices of, calculation of thermal neutron group constants during, 25:54271
- fuel burnup in plutonium fueled, computer program for analysis of, (E/T), 22:22775
- fuel burnup in uranium-fueled, computer program for measurement of, 22:25134 (PRNC-117)
- fuel burnup in, computer calculation for, 21:44829 (EUR-3610.f)
- fuel burnup performance of power, analysis of cycle management for optimum, 22:53291
- fuel costs for, predictions of plutonium and uranium-235, 23:18193 (DUN-AOP-92)
- fuel cycle costs for water cooled, 24:31080 (CONF-700502-, pp 522-33)
- fuel cycle costs for, linear programming for optimization of, (T), 25:60104
- fuel cycle performance of, CELL computer program for, 22:39781 (MIT-2073-8)
- fuel cycle schedules to 1995 of, analysis of optimum, 22:35535
- fuel cycles for, use of thoria—urania, 21:2835
- fuel development for, analysis of plutonium, 21:19347 (BNWL-SA-926)
- fuel economics of, effects of power requirements on, 22:3832 (KFK-566)
- fuel element assemblies for water cooled, description of varying spaced hexagon lattice, 24:36034(P)
- fuel element failure in, chemical stability in, 21:40571(R) (ORNL-TM-1913)
- fuel elements for fast breeder, radiation effects on swelling of Zircaloy-4 clad thorium oxide (ThO_2)—uranium oxide (UO_2) rod type, 25:15366 (WAPD-TM-986)
- fuel elements for heavy water reactors and, design of interchangeable, 24:35945(P)
- fuel elements for water cooled, design of, 24:31067 (CONF-700502-, pp 534-50)
- fuel elements for, computer program for thermal neutron spectrum in, 25:28802 (EUR-4554)
- fuel elements for, fuel cycle economics evaluation for stainless steel- and Zircaloy-clad dioxide, 22:6017
- fuel elements for, thermal utilization and thermal flux fine structure calculations for cluster-type, 21:38596
- fuel elements of, radial power distribution in pin type plutonium oxide (PuO_2)-enriched uranium oxide (UO_2), (E/T), 24:36004 (RT/FI-(69)50)
- fuel management in, comparison of homogeneous and discrete calculations for, 21:25639 (WCAP-3269-53)
- fuel plates for, extrusion cladding of aluminum—uranium alloy, 23:14317(P)
- fuel sections of, thermal neutron and reactivity measurements in, 21:35594
- fuel substitutions in, evaluation of plutonium, 21:30149 (JAERI-1123)
- fuel transfer in tandem boiling heavy water-moderated reactor at 400 MW(e), 21:42776
- fuels for, calculations for use of plutonia—urania, 21:40541(R) (BNWL-492)
- fuels for, effects of time after discharge on transuranium element composition of, (T), 24:26775 (ORNL-TM-2897)
- fuels for, REPP code for optimum utilization of plutonium-containing, 22:20780 (BNWL-624, pp 4.1-16)
- fuels from, equipment and methods for safe shipping of irradiated, 24:20968 (KFK-666)
- heat transfer system dynamics for tungsten rocket, control analysis of, 22:39862 (N-68-18252)
- infinite multiplication factor for, method for measurement of, 24:47828(P)
- instrumentation for, review of, 23:746
- instrumentation system for, use of in-core neutron flux, 21:27771
- kinetic parameters of natural uranium fueled, pulsed source technique measurements of, (E/T), 25:60166
- kinetics and safety review on, 21:15731
- kinetics for gas cooled, effects of axial reflector configurations on, 23:40335
- kinetics of thermionic power, for undersea operation, 25:20813 (CEA-CONF-1727)
- kinetics of uranium oxide (UO_2) fueled, techniques for measurement of conversion ratio and fast fission ratio, 24:4038 (AEEW-R-648)
- kinetics of, book on, (T), 24:26830
- lattice heterogeneities in, effects on reactivity and power distribution of, (E), 24:36060(R) (BAW-3647-17)
- lattice parameters of uranium oxide (UO_2) fueled, evaluation of models for calculation of, (E/T), 25:34435
- lattices in, multigroup calculation of criticality and fuel burnup in homogeneous, 23:47325
- loading machines for pressure tube type, design parameters of liquid cooled, 24:11192(P)
- loading of power, procedures and equipment for, 24:4069
- materials for, properties of zirconium and Zircaloy structural, 25:58243
- moderator activation in, measurement of, 21:21783
- moderator for, γ heating of, (E/T), 25:60022
- moderator for; thermal neutron diffusion in, (T), 25:10301 (AEEW-R-701)
- moderator reactivity coefficients for, comparison of methods for measurement of, (E/T), 24:11319
- multiplication factors for tubular fuel elements with integral target rods in, infinite medium, (E/T), 25:1966 (BNWL-1501)
- multiplication factors in uranium oxide (UO_2) and uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled lattices, (E/T), 24:46122(R) (BNWL-1381-2)
- neutron activation in natural uranium fueled lattices, Monte Carlo calculation of thermal, (E/T), 25:12859
- neutron buckling measurements in, 21:40595
- neutron detector response to material changes in subcritical, use of few-group diffusion theory for prediction of, (E/T), 25:10322
- neutron diffusion coefficients in plutonium-fueled, Battelle Revised Thermos code for, 22:27481 (BNWL-634, pp 2.1-8)
- neutron diffusion coefficients in, unified theory calculation of lattice cell radial, 25:51239
- neutron diffusion in heterogeneous lattices in, pulsed method for determination of, (E/T), 25:12861
- neutron flux decay constants for mixed fuel lattices in, pulsed neutron and exponential experiments on, (E/T), 25:41617
- neutron flux distribution in, $1^{1}/_{2}$ group model calculation of, 21:42736
- neutron importance function distributions in, classification scheme for measurements of, (E/T), 25:34436
- neutron lifetime calculations for, parameterization of spectrum-averaged thermal cross sections in, 24:33098
- neutron pulse decay in, scattering kernel for calculation of, (T), 25:46333
- neutron resonance absorption in, approximate methods for calculation of, 24:33539
- neutron spectra determinations for, use of time-of-flight technique for thermal, 22:33049
- neutron spectra in core of, effects of cadmium and indium poison on thermal, (E), 25:51227 (JAERI-13515)
- neutron spectra in natural uranium fueled lattices in, foil activation measurements of thermal, (E/T), 25:15409
- neutron spectra in thermal, computer codes for calculation of, 22:46904(T) (N-68-24779)
- neutron spectra in uranium fueled lattices, correlation method for analysis of, (E/T), 24:41067 (RT/FI-(69)54)
- neutron spectra in uranium oxide (UO_2) fueled, analytical two-group formalism for epithermal, (E/T), 25:10320 (AE-405)
- neutron spectra in, comparison of calculated and measured thermal, 21:38671 (WAPD-T-2029)
- neutron spectra measurement in, performance of threshold detectors for measuring, 23:50144
- neutron streaming from, pulsed neutron source technique for measuring, 21:32023
- neutron wave propagation and reflection in water reflected, (E/T), 25:54277
- noise measurements in plutonium fueled, determination of effective delayed neutron fraction to prompt neutron lifetime ratio from, (E/T), 25:23413
- operation experiences of power, review of, 24:18565
- operation of pressurized, 22:18530(P)
- operation of water cooled power, analysis of problems related to, 24:28860
- operations experience for power, review of, 24:43633
- performance of, physics and dynamics calculation methods for, 24:40906 (AEEW-R-691)
- physics analysis of, use of ENDF/B data for, 24:33540
- physics calculations for lattices of, comparison between theoretical and experimental, 21:27731
- physics calculations for, comparison of ENDF/B-I and ENDF/B-II data for, 25:57019 (CONF-710302-(Vol.2), pp 1065-85)
- physics calculations for, development of METHUSELAH II code for, 21:30087 (AEEW-R-397)
- physics calculations for, modular POWER-B code package for, 25:57172 (CONF-710302-(Vol.2), pp 983-90)
- physics calculations of heterogeneous uranium fueled, two group diffusion method for, (T), 24:20635
- physics characteristics of water-cooled, with burnable poison rods, (E/T), 22:20812 (FEI-88)
- physics characteristics of, effects of lattice pitch variations on, (E/T), 25:37121 (UARAEE-70)
- physics measurements for conceptual uranium oxide (UO_2) fueled pulsed, 23:47242 (CNM-R-2(Vol.1), pp 538-72)
- physics measurements in, 21:30249 (ANL-7203)
- physics measurements in water-cooled, lattice spectra, (E/T), 21:19355(R) (GA-7378)
- physics measurements on plutonium oxide (PuO_2)—uranium oxide (UO_2) fueled, (E/T), 22:20779 (BNWL-624, pp 3.1-159)
- physics parameters for seed-blanket, determination in critical assemblies of, 22:6116
- physics parameters of mobile, with burnable poison rods, (E/T), 25:23384
- physics parameters of slightly enriched uranium rod lattices and natural uranium slab lattices in, (E/T), 24:38607 (WAPD-TM-931)
- physics parameters of, effects of central water gaps on, 22:39884
- physics parameters of, effects of lattice heterogeneities on, (E), 25:23410 (BAW-3647-20)
- piping failure in, probability analysis for, 25:8866 (GEAP-10205)
- plutonium lattices for, economics of optimum, 21:30106 (BNWL-SA-738)
- poison rods in, effects on reactivity of burnable, 22:42355(T) (ANL-Trans-637)
- power density in, effects of lattice heterogeneities on, (E), 25:8135(R) (BAW-3647-19)
- power distribution in enriched uranium oxide (UO_2) fueled, (E), 24:33545(R) (BAW-3647-16)
- power distribution in plutonium-fueled, computer program for analysis of, (E/T), 22:22775
- power distributions in uranium oxide (UO_2) and uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled lattices, (E/T), 24:46122(R) (BNWL-1381-2)
- power distributions in uranium oxide (UO_2) and uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled lattices in, (E/T), 24:47820 (BNWL-1379)
- power fluctuations in, theory of, (T), 22:6102
- power of, limiting ratio of maximum thermal neutron flux to, (T), 25:23401
- power production from, experimental program for, 22:10010(R) (NP-17126)
- power production using, economics of, 22:14164
- power shape tailoring in water-cooled, achievement of constant fuel-centerline temperature by axial, (T), 23:4405 (N-68-28304)
- pressure tubes for, design criteria for Zircaloy-2, 23:16480 (BNWL-746, pp 3.1-5)
- pressure vessel construction for, 22:32804
- pressure vessel damage in an excursion, empirical calculation of, 21:27676 (GEAP-5163)
- pressure vessel for water-cooled, for restricted heat transfer, 21:12205(P)
- pressure vessel for, effects of proof testing and warm prestressing procedures on fracture reliability of, 23:47197 (HSSTP-TR-1)
- pressure vessel mount for water-cooled maritime, description of multiple curved duct-connected dry and wet well, 22:48717(P)
- pressure vessel simulation of A302-B steel for, radiation effects on, neutrons, 21:41627 (NRL-6575)
- pressure vessels for, reliability improvement by proof testing and warm prestressing, 25:21261
- pressure-suppression facility for, experiments on, 21:25665
- pressure-vessel rupture in, analysis of fission-product iodine release from, 21:27665(R) (BMI-1797)
- pumps for, description of hermetically sealed, 22:22784
- radiation levels in, analytical techniques and equations for determining, 21:44843(R) (IDO-17239)
- reactivity accidents in, effects of moderator feedback on, (E/T), 25:46284
- reactivity accidents in, mechanical forces produced by, 21:7936
- reactivity calculation method for, adequacy of, 21:38479
- reactivity calculations for, use of computer code ANDREA for, 21:21741
- reactivity coefficient calculations for plutonium fueled, 21:30103(R) (BNWL-400)
- reactivity control by controlled pressurized helium-3 in core, design of system for, 21:38461 (NASA-TN-D-4093)
- reactivity effects on transients in, 21:31978
- reactivity in, control rod measurement of, 22:30352
- reactivity of fuel in, calculation of, 21:5603 (BNWL-305)
- reactivity of mixed oxide fueled, effects of plutonium oxide (PuO_2) particle size on, 25:18098(R) (BNWL-1522-1)
- reactivity of reflected and unreflected, analysis of excess, (E/T), 24:43723
- reactivity of uranium oxide (UO_2) and uranium oxide (UO_2)—plutonium oxide (PuO_2) fueled lattices in, (E/T), 24:47820 (BNWL-1379)
- reactivity of, effects of placing lead in water reflector region on, (E/T), 25:39240
- reactivity of, effects of thermal neutron flux depressions in irradiation-loops on, 22:18582 (CEA-R-3173)
- safety evaluation of, review of problems in, 24:33364 (JAERI-1054)
- safety facilities for, design of, 21:40571(R) (ORNL-TM-1913)
- safety of, engineered safeguards development for, 22:1772(R) (ORNL-TM-1986)
- safety program plan for, description of U. S. AEC, 24:22433 (WASH-1146)
- safety research on, review of, 21:25689
- safety studies on French, outline of, 22:14176
- shielding of, SABINE code calculations of neutron flux in iron—water, 25:10192 (CEA-N-1354)
- siting of U. S., effect of engineered safeguards on, 21:2842
- stability of natural circulating boiling, digital computer program for hydrodynamic, 21:44885
- steam separation for, studies on cyclone, 21:21633(R) (EURAEC-1734)
- thermalization parameters for neutrons in, computer calculated, 21:44829 (EUR-3610.f)
- use in nuclear power stations, evaluation of economic and technical aspects of, 22:37460
- use of slightly enriched uranium-fueled low-temperature, for desalination, 21:23705(R) (ORNL-4087)
- water contamination in, 21:45220
- xenon oscillations in thermal, effects of core parameters on spatial, (T), 25:8057 (NP-18548)

Reactors, Zero-Power
- see Critical Assemblies

Reagents
- see Chemicals and Reagents

Rebatron
- see Microwave Oscillators

RECOILS
- analyzer system for coincidence studies of ionization and charge transfer collisions, 23:6877(R) (ORO-2591-38)
- bibliography on chemical effects of nuclear transformations, 1968, 24:48143 (NP-18436)
- bibliography on chemical effects of nuclear transformations, 1963 to 1967, 24:46290 (NP-18403)
- bibliography on chemical effects of nuclear transformations, 1969, 24:46289 (NP-18402)
- charge and energy distribution of, method for measuring, 24:48155
- charge distribution of, gas-filled magnetic separator for measuring, 25:44720 (BMBW-FBK-70-28, pp 255-69)
- charge, energy, and mass analysis of, review on particle spectrometers for, 25:44718 (BMBW-FBK-70-28, pp 225-40)

  - charge-state distributions of, research progress on, (E/T), 22:18122(R) (NYO-2771-25)
  - chemical states of, from nuclear reactions, 25:21065(R) (NYO-2771-40)
  - chemistry of, review on, 23:11592
  - crystallochemical reactivity of, thermalized in solid matrix, 23:219(R) (ORO-3602-2)
  - deorientatin of, spin dependence of, (E), 24:43393
  - detection of elastically scattered nuclei, using dielectric track detectors, 25:44651
  - detection of heavy, from heavy-ion nuclear reactions, gas-filled magnetic separator for, 25:18851
  - diffusion of, in metals and oxides, emission and thermoionization from, 21:8326 (JINR-P13-3019)
  - dose and LET distributions in tissue-equivalent phantom following broad and collimated beam exposure from californium-252 source, Monte-Carlo method for calculating, 25:32420
  - dose distributions in rabbit and rat phantoms from neutron beam, correlation of LET distributions and, 25:55229
  - dose equivalent distribution in neutron-irradiated tissue-equivalent phantom, effects of neutron beam incidence angle on heavy nuclei and proton, 25:32421
  - dosimetry of ionic, in cylindrical phantoms during irradiation with collimated neutron beams, 25:46852
  - energy deposition by heavy-particle, in fast neutron reactions in tissues, 25:2568
  - energy distribution of, gas-filled magnetic separator for measuring, 25:44720 (BMBW-FBK-70-28, pp 255-69)
  - formation mechanisms for, 23:277
  - implantation in substrates by rare gas-ion bombardment, 25:19786
  - lifetimes of, development of chamber for measuring, 25:22993
  - mass distribution of, gas-filled magnetic separator for measuring, 25:44720 (BMBW-FBK-70-28, pp 255-69)
  - moderation processes of, 24:41323
  - oxidation states of, technique for determination of, 23:219(R) (ORO-3602-2)
  - production by (γ,γ') reactions, 24:33657
  - production by thermal neutron capture in magnesium stannate, chemical and Moessbauer studies on, 23:11553
  - radioinduced in barium-activated potassium chromate, effects of annealing on, 21:40885
  - range in solids following nuclear beta decay, Moessbauer study of, (E/T), 23:46243
  - ranges in solids and gases, 22:30588(R) (HMI-B-66)
  - reaction mechanisms in crystals, 25:32013 (AERE-R-5842)
  - reactions for on-line chemical separations in electromagnetic isotope separators, 25:44404 (BMBW-FBK-70-28, pp 168-74)
  - reactions in gas-phase systems, 22:4173
  - reactions in neutron-irradiated metal carbonyls, 23:17474
  - reactions in organic and inorganic systems, review on, 25:29168
  - reactions in organic systems, mechanisms of, 25:14837(R) (BNL-50230)
  - reactions in radiation targets in separation of short-lived radioisotopes, 25:57481 (KURRI-TR-76, pp 8-14)
  - reactions in solids, chemical effects from, 25:8313
  - reactions in solids, chemical effects from, 25:8314
  - reactions in solids, knockout effect in, 25:48564
  - reactions in solids, review on, 21:21997
  - reactions in solids, review on chemical effects of, 25:15714
  - reactions in tissues, LET spectral distribution at various depths for, 21:20180 (ORNL-P-2897)
  - reactions of, 24:19044 (IBK-832)
  - reactions of, 25:57442
  - reactions of charged and neutral, research progress on, 24:50413(R) (ORO-3602-11)
  - reactions of photochemical and nuclear, in gases, review on mechanisms of, 24:48083
  - reactions of polynuclear, in irradiated solids, 23:6194
  - reactions of, computer simulation of, 22:42723 (COO-1618-7)
  - reactions of, effects of energy of incident radiation and isotope mass on, 24:13873 (KFK-1067)
  - reactions of, energy losses in, 24:16588
  - reactions of, Estrup-Wolfgang theory of, 25:193
  - reactions of, in gaseous medium, energy distribution for, 21:5835 (IA-1091)
  - reactions of, in solids, 21:137
  - reactions of, inert moderators in, 25:37450
  - reactions of, isotope effects in, 23:219(R) (ORO-3602-2)
  - reactions of, method for studying charged and neutral species separately, 22:10264(R) (ORO-3602-1)
  - reactions of, production of carrier-free radioisotopes by, 25:181 (KFK-1257)
  - reactions of, research progress on, 24:44029(R) (PRNC-139)
  - reactions of, review of, 22:27741 (BNL-12361)
  - reactions of, review of, 22:33470
  - reactions of, role of kinetic energy and charge in determining, 22:10264(R) (ORO-3602-1)
  - reactions of, use of ion implantation to study mechanisms of, 22:33462
  - reactions with sphere of inert material, release of gases following, 21:36057 (EUR-3488.e)
  - research programs on, summary of USAEC on-site, 22:33379 (TID-4050(1st. Ed.))
  - separation from ion exchanger loaded with target ion during neutron irradiation, 22:40141
  - stopping cross sections from Doppler shift measurements, method for, (T), 23:21278 (ZFK-130, pp 226-31)
  - stopping time for, from nuclear reactions in solids, 24:44059
  - transport system for reaction studies, development of helium gas-flow, 23:21332(R) (ORO-3820-1)
  - use in activation analysis, 22:14433 (ORNL-4196, pp 66-89)
  - velocity distributions of, nuclear resonance fluorescence studies on, 25:32019
  - yields from reactions of protons with targets in GeV range, 24:27101 (BNL-50211)
- RECTIFIERS
  - description of 6.9 MW stabilized, for CERN ISR main magnets, 25:33884 (CERN-71-9)
  - design and performance of, for Rankine cycle nuclear space power systems, 21:36206(R) (SAN-679-2)
  - design and use of superconducting, for flux pumping, 22:39000
  - design for power supply for accelerator magnets, 23:10890(P)
  - design for use in capacitor banks, 21:34385
  - design of superconducting, 23:6248
  - design of superconducting bridge, 22:13386
  - design parameters for 0.25 to 10.0 MW Nuclear Auxiliary Power Systems, analysis of optimum, 22:35572 (SAN-679-4)
  - development for 0.25 to 10 MW(e) potassium Rankine cycle nuclear space power systems, 22:37552 (CONF-680802-1)
  - neutron radiation effects in HB-6 of Plum Brook Reactor on silicon diode, 21:44943 (N-67-25854)
  - plasma theory for mercury vapor, 22:1942(T) (SC-T-67-0951)
  - radiation effects on selenium, x, 25:44750
  - radiation effects on semiconductor-controlled, transient, 21:16259
  - radiation effects on silicon-controlled, electron, 21:6397
  - radiation effects on, in simulated space flight, 23:45602
  - radioinduced switching of semiconductor-controlled, 22:12727
  - switches for, design of equipment for firing, 21:34386
  - testing of size A metal anode, 21:22068 (LA-DC-8088)
  - testing silicon-controlled, programming semiconductor test systems for, 25:46403 (SC-M-70-887)
  - use of ignitrons in 100 kV discharge switch, 21:17941
  - use of silicon diffused-junction, in construction of Cockcroft—Walton voltage multiplier, 21:37984
  - use of silicon-controlled, in switching circuit for producing pulsed magnetic fields, 21:36447
- Rectum
  - see Intestines
- RECUPLEX PROCESS
  - (Recovery of plutonium from slag and crucibles with tributyl phosphate and the preparation of feed for the PPF Process.)
  - separation of plutonium from waste stream in, by solvent extraction using dibutyl butylphosphonate, 21:24064 (HW-69910)
- REDOX PROCESS
  - economic feasibility for commercial fuel reprocessing, 23:9503 (BNWL-920)
  - explosions in packed beds in, 21:24060 (BNWL-SA-942)
  - pumps for, design modifications to minimize failures of, 23:13905 (HW-81386)
  - radioactive contamination after dissolver incident, 21:32645 (HW-67164)
  - separation of americium and curium from waste solutions in, by solvent extraction using TBP, 23:337 (BNWL-CC-956)
- REDUCED NAD DEHYDROGENASE
  - radiation effects on activity of, in corn seedling roots, x, 21:30780
  - radiation effects on activity of, in mitochondria of mice, effects of fasting on x, 22:31009
  - radiation effects on activity of, in organs of rats, whole-body x, 23:35642
  - radiation effects on activity of, in Purkinje cells with homogenization necrosis, 40,000 R, 24:34082
  - radiation effects on activity of, in tumor cells from rats, x, 22:28377
  - radiation effects on content of, in adrenal glands of rats, x, 22:14957
  - radiation effects on content of, in erythrocytes of rabbit, x, 22:45428
  - radiation effects on reaction rates of, x, 22:47186
  - radiation protection of, in rat liver mitochondria using AET, biogenous amines, neurotropes, and sulfamides, 25:24214
  - reaction kinetics of, 21:8674 (ORNL-3999, pp 159)
  - reactions with atomic hydrogen, 22:35733 (NYO-3242-26)
  - specificity of allosteric, determination of, using tritium-labeled NADH, 21:24330
- REDUCED NADP DEHYDROGENASE
  - radiation effects on activity of, in Purkinje cells with homogenization necrosis, 40,000 R, 24:34082
  - radiation effects on content of, in epidermis, x, 25:11241
- REDUCING AGENTS
  - (See also specific compounds used for chemical reducing.)
  - effects of, on radiosensitivity of plant cells, 21:1837(R) (NYO-2587-21)
- REDUCTION
  - see also Reducing Agents
  - method for metals, incorporating casting, 21:24744(P)
  - radiation effects on glycolytic, in brain and spinal cord of rabbits, γ, 21:4770
- REDUCTONE
  - effects on synthesis of DNA, RNA, and proteins in uv-irradiated Escherichia coli, 25:13610
- Redwood Burst
  - see Hardtack Operation-Phase I
- Reference Electrodes
  - see Standard Electrodes
- REFLECTION
  - see also Mirrors
- REFLECTOMETERS
  - design of glove box-contained optical, 23:38372
  - design of ultrahigh vacuum, for use with extreme ultraviolet synchrotron radiation, 23:14093
- Reflector-Moderated Reactors
  - see Reactors, Reflector-Moderated
- REFRACTION
  - measurement in ultrahigh vacuum of index of, ellipsometric technique for, 22:15569 (ORNL-TM-2114)
- Refractive Index
  - see Refraction
- REFRACTOMETRY
  - see also Refraction
- Refractories and Crucibles
  - see Crucibles
- REFRACTORY COATINGS
  - adhesion and flame-spray deposition on metals, 22:15165
  - book: Refractories, 23:8260
  - deposition by chemical vapor, statistical analysis of, (E), 22:8709 (ORNL-TM-2066)
  - deposition of, development of process for electrolytic, 21:1944
  - deposition of, vapor phase, 21:22855
  - fabrication of, by sintering for use on tantalum-base alloys, 21:13257 (N-66-21018)
  - technology of oxidation-protective, 21:36796
- REFRACTORY MATERIALS
  - (See also specific materials.)
  - see also Ceramic Materials
  - abrasion resistance of, comparison of gas-borne corundum and diamond wheels for testing, 25:58386
  - adhesion between heated pairs of boride and carbide, 22:23781
  - analysis for carbon and sulfur traces, method for, 21:34215(R) (UCRL-50006-67-1)
  - analysis for hafnium and zirconium by differential spectrophotometry, 24:38730
  - analysis for oxygen by 14-MeV neutron activation, 23:9306 (ORNL-4343, pp 62-84)
  - analysis for oxygen by fast-neutron activation and scintillation counting, 23:28764
  - analysis of limitations of methods for, 23:6677
  - analysis of pastes of, for humidity, radiometric method for, 23:17351
  - analysis of solutions of, for metals, spectrographic, 22:21032
  - analysis of, for carbon and sulfur, equipment and method for, 21:15836(R) (UCID-15079)
  - analysis of, for carbon and sulfur, equipment and method for gas chromatographic, 21:15835(R) (UCID-15066)
  - analysis of, for fluoride traces, method for, 21:15835(R) (UCID-15066)
  - analysis of, uses of activation in, 23:17372
  - anisotropy in single crystals of, 23:6631
  - anisotropy of single-crystal, volume 1 of conference on, 23:6712
  - arcing behavior of, exposed to pulsed rf discharge, (E), 25:9442
  - behavior of molten, determination using microspecimens in free fall, 24:8206
  - bibliography on properties of, 21:18204 (NP-16427)
  - book: Chemical Properties and Methods of Analysis of Refractory Compounds, in Russian, 25:37292
  - book: Emissive Properties of Materials (Handbook), 25:56346
  - book: Evaporation of Refractory Compounds, 22:34060
  - book: Fundamentals of Refractory Compounds, 22:36472
  - book: High Temperature Materials, 22:31360
  - book: Highly Refractory Elements and Compounds: Reference Book (in Russian), 25:32699
  - book: Interaction Between Refractory Metals of Transition Groups and Oxygen (In Russian), 23:43990
  - book: Methods of Studying Refractory Materials (In Russian), 25:16595
  - book: Modern Composite Materials, 22:34007
  - book: Modern Materials. Advances in Development and Applications, 23:24890
  - book: New Materials in Engineering, 21:9050(T) (AD-643685)
  - book: Phase Diagrams: Materials Science and Technology. Volume II. The use of Phase Diagrams in Metal Refractory, Ceramic, and Cement Technology, 24:44736
  - book: Refractories, 23:8260
  - book: Refractory Metals (in Russian), 24:46732
  - book: Stability of Refractory Metals, 25:52361
  - book: Technology of High-Melting Metals and Special Alloys, Vol. 28, 23:3017
  - book: The Characterization of High-Temperature Vapors, 22:30553
  - book: The New Materials, 22:12959
  - book: Thermal Stability of Materials and Structural Elements. Issue 5, 25:678
  - book: Thermodynamics of Certain Refractory Compounds. Vol. I, Discussion of Theoretical Studies, 21:4540
  - book: Thermodynamics of Certain Refractory Compounds, 21:13271
  - brazing of, methods for vacuum, 23:41579
  - casting of, equipment for continuous, 22:28903(P)
  - characterization using emission spectroscopy, review of, 23:6677
  - chemical bonding of, model for, 24:8202
  - cladding and brazing of, materials and methods for, 21:9118
  - cladding of, with rhodium—iridium alloys, 21:12587(R) (STL-517-0049(Vol.3))
  - coating of, electrophoretic, 21:9061
  - coating of, vapor deposition methods for, 21:9060
  - coatings for, development of high-temperature, 22:7030
  - coatings for, methods for evaluation of, 21:13101 (AGARD-509)
  - compaction of powdered into continuous bars, method for, 21:41568
  - compatibility with plutonium-238 oxide, equipment and method for testing, 23:24842(R) (DAC-60777)
  - compressibility of powders of, in gaseous and vacuum atmospheres, thermal, 24:21433
  - conference on high-temperature chemistry of oxides, Leningrad, Nov. 26 to 29, 1965, 23:39017
  - contamination of steel by ladle liners of, thulium-170 tracer measurements of, 23:16476
  - corrosion by liquid alkali metals, NASA—AEC conference on studies on, 21:6759 (TID-7626(Pt.2))

corrosion by liquid metals and fused salts, review of, 21:1868
corrosion of fuel cladding alloys by oxygen-contaminated sodium, 21:12231(R) (ANL-7267)
corrosion of metals and alloys by alkali metals, liquid and vapor, review, 21:11170 (BNL-10800)
corrosion of metals and alloys in mercury at high temperatures, 21:6754 (NAA-SR-6311)
corrosion of, by potassium, development and testing of loop for evaluating, 21:13107(R) (N-66-38146)
crack detection in, high-temperature eddy current method for, 22:51191 (LA-DC-9382)
crystal defect structures of, for use as reactor moderators, 21:40564(R) (NAA-SR-12395)
crystal growth mechanisms of, parameters affecting, 22:19668
deposition on substrates as protective coatings, seminar on, 23:10156
design of ceramic, for structural uses, 22:36540
development and uses of, review of, 24:39705
development for blast furnaces, and open hearths, review of, 23:1042
development for high-temperature reactors, review of, 24:8049
development for use in MHD generators, 24:50510(T) (AEC-tr-7162)
development of new, 24:23517
development of super, considerations for, 25:27280 (INIS-mf-12)
developments in sintered hard, review of, 25:24631
developments in, conference on, 21:9102
dielectric properties of, measurement at extreme temperatures, 21:16641 (TID-23684)
diffusion in, bibliography and data tabulations on, 25:16514
diffusion in, data tabulations on, 23:14332
diffusion in, review on, 24:17277
dissolution by ammonium chloride in methanol for chemical analysis, electrolytic, 23:28690
dissolution by fusion with ammonium hydrogen sulfate, 21:21879
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
effects of uranium-235 fission products on, review on, 23:17488
elastic moduli of, ultrasonic determination of, 21:31898(R) (ANL-7329)
elastic properties of, ultrasonic method for measuring high temperature, 21:11190 (ANL-7155, pp 1-166)
electric conduction at high temperatures in oxides, 25:45606
electric conductivity measurement at high temperatures, correction for leakage currents due to thermionic emission, 25:14455
electric conductivity of carbides, borides, nitrides, and silicides, temperature coefficients of, (E), 22:28932
enthalpy and thermal capacity of, apparatus for measurement of, 25:47122
erosion by high temperature gases, mechanisms of, 22:11060
erosion by liquid metals and water, 21:1863 (NP-16274)
erosion resistance of zirconium dioxide-base, at 2000 to 2630°K, gas, 21:18309
evaporation at 1200 to 2500°K, mass spectrometer study of, 23:45587
fabrication and properties of, 21:30949
fabrication and testing of crucibles of, for molten beryllium and nickel, 22:28888 (RFP-882)
fabrication by chemical vapor deposition, statistical analysis of, (E), 22:8709 (ORNL-TM-2066)
fabrication by isostatic compaction of powdered, 23:30137
fabrication of carbon-impregnated molds of, for reactive metals, 23:18263(P)
fabrication of fuel elements of laminated sheets of actinide containing unitary sintered metals, description of, 22:37598(P)
fabrication of nonfuel boride, carbide, and nitride, 22:773
fabrication of, by spinning, 21:9125
fabrication of, conference on, 23:34067
fabrication techniques for aircraft applications, 21:43571
fabrication techniques for, review of, 23:9265
fabrication using electron beam heating, parameters for, 24:4749
failure mechanisms of carbon, 22:275
formation of spheres from powdered, by shaking three-phase liquid—liquid—powder, 23:24821(P)
friction and wear properties of, for use in journal bearings in liquid potassium and high vacuum, 22:8826
fusion of, process for induction, 21:18314(P)
hardening of bcc, at low temperature, theory for, 21:36819
hardness calculation from excess binding energy, 24:24173
heating of metals, method using molten glass for oxidation-free, 21:1866
hot hardness of various borides, carbides, and oxides, 23:9264
impregnation of graphite with carbide-type, 23:27148(P)
joining of metallic, methods review, 21:18229 (NASA-SP-5064)
joining of, evaluation of vacuum hot press-diffusion method for, 23:12391 (BM-RI-7225)
labeling of foundry, equipment and method for zirconium-95, 23:11706
labeling with radioisotopes for detection of inclusions in castings, 21:26062 (EUR-3169.f)
machining of sheets of metallic, electrolytic bath for, 24:11505 (IA-1190, pp 133-81)
melting and casting of, plasma-heated centrifugal furnace for, 24:31541
melting of, arc furnace for, 22:35978(P)
melting of, stippling method for, 24:17233(T) (SC-T-70-4008)
molecular structure of metal carbides, review of, 23:9264
oxidation characteristics of solid, above 2000°C, 21:43654 (AD-651435)
performance of cobalt-bonded, in structures, 22:36468
performance on substrates as protective coatings, seminar on, 23:10156
phase relations of metal carbides, review of, 23:9264
phase studies of, using solar furnace, 24:8204
phase studies on, 22:6288(R) (COO-1140-167)
physicochemical properties and structure of, at high temperatures, 24:14760
powder metallurgy of, 21:13133
preparation and testing of, for regenerator in MHD power plant, 23:12610
preparation and uses of, 21:5002
preparation by chemical vapor deposition, 22:6956
preparation for reactor fuel cladding, 21:35783(P)
preparation of composites of, incorporating in-situ grown carbide fibers, 25:35557
preparation of improved, method for, 23:30134(P)
preparation of metal oxide, by sintering, 21:39682(P)
preparation of pellets of, method for, 24:14881(P)
preparation of reinforced composite, 24:8174(P)
preparation of single crystals of, 21:6856(R) (N-66-30848)
preparation using chemical vapor deposition, development, 22:6957
processing of, effects of hot-pressing conditions on, 23:9264
production for containment of reactive alloys, method for, 23:32054(P)
production of fibers of, for incorporation in composites, 24:4751
production of spheres of, by passage through plasma jets, 24:42206 (NP-10941)
production of spherical particles of, method for, 24:1073(P)
properties and uses of, reference data on, 22:10907
properties at high temperatures, bibliography on, 22:5418 (NP-17141)
properties for reactor use, review of, 21:40710
properties for use as crucibles in casting uranium and uranium alloys, 22:45756 (UJV-1994)
properties for use as promethium-147 heat source capsules, 23:38173(R) (BNWL-1085)
properties for use as reactor moderators, 22:30155(R) (NAA-SR-12296)
properties for use in aerospace structures, 24:23518 (AD-698327)
properties for use in rocket reactors, 22:16256
properties for use in SIREN radioisotope fuel capsules, 25:13170 (SNC-2708-1)
properties for use in tundish nozzles for continuous casting of steel, 22:23892
properties of, 21:40875
properties of brittle, for use in panels and structures, 22:52260 (CONF-670927)
properties of fusion cast, for use in corrosive and erosive environments, 23:1060
properties of nonfuel, review of, 22:12957
properties of nonfueled, review on, 23:41537
properties of particulate, for dispersion strengthening of composite alloys, 25:38000(P)
properties of sintered, for high-temperature metal-melting crucibles, 22:19610 (RFP-900)
properties of thorium compounds as, 21:28770
properties of, bonding mechanism for, 21:4996 (CU-3553-5)
properties of, effects of composition and manufacturing conditions on, 25:27280 (INIS-mf-12)
properties of, effects of electron structure on, 21:11307
properties of, for use as cladding materials for fuel capsules, 21:6148 (STL-517-0034(Vol.1))
properties of, for use in thermionic converters for spacecraft, 21:9161
properties of, mechanical, physical, and thermochemical, 23:30138 (AERE-R-4657)
properties of, relations with valence electron configuration, 24:4712
properties of, review of physical and mechanical, 23:9264
purification by electron-beam melting, thermodynamics of pilot-scale, 23:3028 (CEA-R-3390)
purification of powdered, by leaching and heat treatments, method for, 23:48356(P)
radiation effects on, 22:35837
radiation effects on carbide-type fuel cladding of, status of test program for, 24:37001 (ORNL-4520, pp 295-7)
radiation effects on, for use as reactor moderators, 21:40564(R) (NAA-SR-12395)
radiation effects on, in-pile, 24:44821 (ORNL-4560, pp 237-8)
reactions at high temperatures, dynamic electron microsopy of, 23:41731
reactions between filaments and matrices in composites of, 21:31029
reactions with dissociated gases, kinetics of, 25:16459
reactions with glass at fusion temperatures, determination of glass properties by, 24:12465
resistivity measurements of, space-charge effects at high temperatures on, 25:15968 (WHAN-SA-69)
sampling by laser—microscope system, 22:47104
separation of uranium from, method for, 22:37843(P)
sintering and compacting powdered, under inert gas atmospheres, 22:742(P)
sintering of, method for fabrication of high-temperature metal-melting crucibles, 22:19610 (RFP-900)
solubility in alkali metals, effects of oxygen on, 23:15835 (ORNL-TM-2476)
sorptive properties of Vycor for protactinium, 21:30502 (ORNL-3950)
stability of oxide, effects of apparent density on, 22:45819
stress in instantaneously radiantly heated wall linings of, calculation of thermal, 24:33843
superconductivity of, 21:9513
superconductivity of, relation to phase diagrams, 25:38319
surface behavior of metals in ultrahigh vacuum, Auger—LEED studies of, 25:37926
technology of, 21:43614
tensile properties of, effects of annealing temperature and time on, 22:30388
testing for SNAP-19 fuel capsule coating, 25:15836(R) (INSD-2873-44)
thermal conductivity of electrically-conducting, at 1000 to 2400°C, absolute method for measuring, 25:29958
thermal shock resistance of, method for statistical determination of, 25:58376
thermodynamic properties, 21:23710 (BNL-994, pp 45-69)
use for production of welded graphite joints, 21:32853(P)
use in electrovacuum devices, 21:4897(T) (JPRS-37911)
use in machining of metals, review of factors and variables in, 22:36441 (NP-17469)
uses in space vehicles, 23:46131
uses of, in instruments for strain measurements at high temperature, 21:9159
vapor pressure measurement, apparatus for, 21:22857 (AERE-R-5352)
vaporization of, mass spectrometric studies of thermodynamics of, 22:4117
vaporization of, mechanisms for high-temperature, 21:40815 (UCRL-17628)
wear of furnace lining, measurement using neutron-capture gamma radiation, 21:26874(P)
welding of metallic, for liquid metal service, 21:473

REFRIGERANTS
(Working fluids in refrigeration cycles)
analysis for gaseous impurities, gas chromatographic, 22:33258
hazards in use of liquefied gas, in electron- and γ-radiochemistry experiments, 24:611
solvent properties of refrigerant-12 for krypton and xenon, 23:19827(R) (K-1770)
use of helium for, in production of ultrahigh vacuum, 21:34454

REFRIGERATION
see also Cryogenics
see also Cryostats
see also Dewar Vessels
see also Traps
analysis of helium-3—helium-4 dilution, (E/T), 25:14213
book: Analysis of Engineering Cycles, 21:28166
conference on low-noise microwave amplifiers and low-temperature, 22:15501
coolant flow optimization for helium system in superconducting power cable, 22:48068
cooling between 1 and 293°K with liquid helium, 24:47155
cycle for helium-3—helium-4 dilution, 21:41974
description and performance of 4.0°K single-engine modified Claude-cycle helium refrigerator, 22:46090
description of dilution, for nuclear boiling designed to minimize eddy-current heating, 25:45434
description of dilution, with large cooling power, 25:47488
description of He-3—He-4 dilution, 25:45432
description of He-3—He-4, using novel types of heat exchangers, 25:45435
description of helium-3—helium-4 dilution refrigerator, 21:43945(R) (COO-1569-15)
description of helium-3-dilution, 25:43327
description of miniature closed-cycle cooler for accelerator-produced radiation effects in solids down to 20°K, 25:59160
description of simple helium-3—helium-4 dilution, 25:14214
design and operation of dilution, 25:7353 (UCSD-34-P-143-29)
design and performance of 4°K Joule—Thompson, 21:44008
design and performance of dilution, for temperatures less than 0.075°K, 25:14474
design and power requirements for 4.2°K, 21:44010
design and testing of continuous helium II refrigerator, 22:46091
design of continuously operating helium-4 evaporation, 25:5061 (UCSD-34-P-143-31)
design of helium-3—helium-4 system for, 22:17562
design of helium-3—helium-4, for Moessbauer studies, 22:41515
design of helium-II, for 300 W at 1.8°K, 25:56118
design of light-weight liquid helium dewars, 21:44011
design of system of, using superfluid properties of helium-4, 25:19640
design of very-low-temperature, use of helium in, 25:1089
development for 4°K research, 23:42117 (BNL-50155(Pt.1), pp 193-375)
development for superconducting beam transport magnets for 200-GeV synchrotron, 23:42117 (BNL-50155(Pt.1), pp 193-375)
development in Europe, 23:42117 (BNL-50155(Pt.1), pp 193-375)
development of 7-W, 4.5°K helium, 23:6959
development of helium installation and air-borne types, 23:6948
development of helium isotope, 22:24215
development of helium, for nuclear research at Juelich, 23:6951
development of pumping groups for helium-3, 25:27664 (RHEL/R-208)
development of superfluid, 23:42784 (BNL-50155(Pt.1), pp 1-191)
economics for desalination, 24:13622
effects on shelf life of irradiated strawberries, 23:41515(T) (ORNL-tr-2160)
equipment design for absorber and target, for Moessbauer effect detection, closed-cycle helium, 22:39201
equipment for helium, producing 130 W at 4.5°K, 25:45439

equipment for helium-3—helium-4, 23:42121(T) (BNL-tr-276)
equipment for liquid hydrogen targets, 24:20279
equipment for magnets and chamber of high magnetic field bubble chamber at NIMROD, 21:39186 (RHEL/S-101)
equipment for neutron source, design of 500 W hydrogen, 24:4404
equipment for superconducting magnets, helium, 25:3508
equipment for, at temperatures below boiling point of helium, 23:42784 (BNL-50155(Pt.1), pp 1-191)
equipment for, development of 300W superfluid helium, 23:42784 (BNL-50155(Pt.1), pp 1-191)
equipment for, helium-4 evaporation, 25:19632
equipment for, in large laboratories, 23:42784 (BNL-50155(Pt.1), pp 1-191)
heat exchanger heat resistance in He-3—He-4 dilution, proposal to decrease, 25:45436
heat exchanger media for He-3—He-4 dilution, fabrication of porous copper, 24:15200 (LA-4259)
heat exchangers for dilution, analysis of, 25:45441
heat exchangers for dilution, description of copper foil, 24:35348
heat exchangers for dilution, numerical analysis of continuous and discrete, 25:45433
helium consumption in superconducting magnet operation, reduction of liquid, 22:48069
helium-3—helium-4 dilution system for, design of, 23:502 (LA-DC-9866)
limitations of ^{3}He—^{4}He dilution, intrinsic, (E), 23:5342
magnetic system of, development of, (E), 21:9491
performance and properties of dilution, 25:5062 (UCSD-34-P-143-32)
performance of 4°K Gifford—McMahon, 21:44009
performance of helium-3 dilution, techniques for determining, 23:6952
principle of helium isotope, 22:52691
principle of operation of helium-3—helium-4 system for, (T), 22:50093 (JINR-P13-4014)
radiation effects on growth of bacteria during, uv, 21:18200
safety for storage of tritium-labeled compounds, 22:31102
shipment of liquid helium dewars, safety precautions in, 21:44012
startup of helium-3—helium-4 dilution refrigerator, rapid, (E), 22:19902
statistical approach to spin refrigerator, 24:42608 (LNF-69/28)
study of helium, systems for superconducting magnets in 200-GeV accelerator, 22:48037 (UCRL-18188)
system for BNL 80-inch liquid hydrogen bubble chamber, 21:34480
systems for 1.0 to 1.85°K, large-scale, 25:56117
testing of closed-cycle helium, for condensing hydrogen in targets, 24:5121
testing of molar dilution refrigerator, 23:3398(R) (COO-1569-32)
thermoelectric, basic physics of, 21:29186
use of closed-cycle helium refrigerator for cooling absorber and target in Moessbauer studies, 22:7212 (NYO-2028-2, pp 139-49)

REGENERATION
see also Growth
correlation of nerve, with muscle following radiation, 21:6656
cytology of rat bone marrow, following x irradiation, 21:24625
effects of age on, of x irradiated salamander eyes, 21:8934
effects of hypoxia on, of spleen colony-forming cells in whole-body x irradiated mice, 21:11000 (AD-644117)
effects of parabiosis with normal partners on, of bone marrow in γ-irradiated dogs, 21:9000
effects of phytohemagglutinin on, of marrow in x-irradiated rodents, 21:6592
effects on x-radioinduced changes in sulfhydryl content of axolotl extremities, 21:26660
Escherichia coli, of mutational lesions induced by ionizing and uv radiation, mechanisms for, 21:20130
incidence in β-radioinduced burns of tissues of man, 23:2976
kinetics in γ-irradiated bone chips, 23:33873
lymph vessel, following x-irradiation of rabbit ears, 21:12990
mechanism of bone marrow, in Endoxan-treated and x-irradiated rats, 21:6625
mechanisms for, of bacteria after injury by nitrogen mustard, 21:13073 (UCRL-16898, pp 97-116)
mechanisms for, of bacteria after injury by uv or x radiation, 21:13073 (UCRL-16898, pp 97-116)
mechanisms of rat tendon, use of tritium-labeled thymidine autoradiography to study, 21:12762
process of Wolffian, in newts, elimination of mitochondria during, 21:10236 (ORNL-3999, pp 65-78)
radiation effects on nerve, in dogs during wound healing, 23:33876
radiation effects on oral, in Stentor coeruleus, cobalt-60 γ and uv, 23:41425
radiation effects on uptake of sulfur-35-labeled sodium sulfate during, of Axolotyl limbs, x, 21:6429
radiation effects on, following amputation of hydra hypostome and basal disc, x, 21:20368
radiation effects on, in embryos Planaria polycelis nigra, 21:28648
radiation effects on, in rats 187 days after exposure, effects of dose and dose fractionation on proton, 23:29733 (CEA-CONF-1089)
radiation effects on, in Stentor coeruleus, γ and uv, 21:45593
radiation effects on, in Tubularia, cesium-137 γ, 24:44587
radiation effects on, of amphibian limbs, effects of cartilage implants on x, 23:14270
radiation effects on, of amputated salamander legs, x, 21:8986
radiation effects on, of amputated tails of salamanders, effects of dose on x, 23:12218
radiation effects on, of animal and plant cells, electron microscopic investigation of γ, uv, x, 21:28636
radiation effects on, of artichoke fragments, x, 21:9014
radiation effects on, of bone marrow of rats following mechanical injury to marrow, 23:35901
radiation effects on, of cheek wounds in hamsters, high-dose x, 23:29798
radiation effects on, of diploid and triploid cells in limbs of axolotl, x, 24:51066
radiation effects on, of HeLa cells, protective effects of cysteamine against x, 21:34770
radiation effects on, of hematopoietic tissues in monkeys, γ, 21:45786
radiation effects on, of in vivo cultured spleen tissues from rats, effects of dose on x, 23:35846
radiation effects on, of limbs in newts, x, 23:18096
radiation effects on, of liver in rats, protective effects of extracts from calf blood against γ, 21:28548
radiation effects on, of liver in rats, x, 21:12969
radiation effects on, of newt forelimbs, x, 23:20346
radiation effects on, of pancreatic islet apparatus, in guinea pigs and rats, β, 21:4768
radiation effects on, of rat liver, following partial hepatectomy, x, 23:10071
radiation effects on, of rat sciatic nerve, x, 21:12966
radiation effects on, of skin transplants, whole-body, 21:22761
radiation effects on, of stomach muscles of rats, effects of mechanical trauma on x, 23:922
radiation injury, dynamics in mice exposed to repeated low-level doses of γ radiation, 21:16446(T) (JPRS-38272, pp 231-2)
radioinduced depression of DNA synthesis during, of rat liver, dosimetric factors affecting x, 21:8696
radioinduced inhibition of, in Dugesia dorotocephala, effects of dose on x, 23:16374 (AD-668330)
radioinduced inhibition of, of sciatic nerve of rats, x, 23:43859
radiotherapy of tumerous skin, radium, 21:28562
reaction mechanisms for, in γ irradiated Escherichia coli, 21:10999
reaction mechanisms for, in irradiated yeast, 21:10999

REGGE POLE THEORY
absorption corrections and cuts for strong interactions in, lectures on, 25:19976
absorption model as alternative to exchange degeneracy for $\pi + \pi$ interactions in, global duality in total, 25:1502
absorption model from Feynman diagrams, 25:14785
absorption model with exchange degeneracy for elastic and charge-exchange strong interactions, formulation of, 25:53159
absorption model with strong cuts for backward interactions, 24:35661
absorption model with strong cuts for differential cross sections and density matrix elements for backward rho$^+$ production in $\pi^+ + p \rightarrow p +$ rho$^+$ interactions at 5.0 and 5.2 GeV/c in, 25:25419
absorptive correction cuts and exchange degeneracy for $\pi^- + p \rightarrow$ eta $+ n$ interactions, 23:23490
absorptive cuts in $\gamma + p \rightarrow \pi^0 + p$ interactions, 24:42919
absorptive model for $\pi^- + p$ elastic and charge-exchange interactions at high energies, 24:1593
algebraic classification of Regge poles in, 22:15832
amplitude and trajectories for large-angle $p + p$ interactions, 23:32766
amplitude for backward unequal-mass scattering in, analyticity requirement for, 23:19006
amplitude for backward unequal-mass scattering, analyticity requirement for, 22:35144
amplitude for bi-Regge pole exchange in multiparticle production processes, Feynman diagram method for, 23:23527
amplitude for eta production in $\pi + N$ interactions, SU(3) representation mixing and, 24:18263
amplitude for $\gamma + N \rightarrow$ vector meson $+ N$ interactions, factorization and conspiracy relations for, 22:34922
amplitude for $p + p$ interactions, proton form factor from model for, 22:50410
amplitude for $\pi + N \rightarrow$ rho $+ N$ interactions in, 22:37158
amplitude for $\pi + N$ interactions in infinite-component field in, 25:41022
amplitude for $\pi + p$ interactions at high energies, review of, (E/T), 22:17957
amplitude for π production from $\gamma + \Lambda$ interactions in, 21:31562
amplitude for π production in $\gamma + N$ interactions, gauge-invariance constraints on, 22:22365
amplitude for πN scattering, crossing symmetric, 23:15126
amplitude from s-channel resonances in, t-channel, 22:41869
amplitude in complex trajectory plane, phase contours of crossing-symmetric Regge, 23:23571
amplitude in, crossing matrix for helicity, 23:46838
amplitude of B^- in $\pi + N$ interactions at large momentum transfer in, structure of, 22:46447
amplitude of inelastic scattering in, graph contribution to three-body production, 22:32216
amplitude of $K^- + p \rightarrow$ anti $K^0 + n$ interactions in, 22:20258
amplitude of $p + p \rightarrow p + p$ interactions at 5 to 13.4 GeV/c in, use of exact forms for, 25:36531
amplitude of $p + p$ interactions in, ratio of real to imaginary part of Regge-parameterized forward, 24:10786
amplitudes for backward $\pi^- + p$ elastic scattering, Regge-trajectory exchange, 21:27380
amplitudes for baryon—antibaryon scattering in, 22:7499
amplitudes for elastic scattering and isobar production at high energies, 23:27799
amplitudes for hypercharge exchange interactions in complex, 25:25428
amplitudes for inelastic interactions involving higher spins, Reggeization of helicity, 23:1643
amplitudes for $K + N$ and $\pi + N$ interactions in, 22:46450
amplitudes for $K + N$ interactions, finite-energy sum rules for, 23:5632
amplitudes for $K^- + p \rightarrow K^*(890) + N$ interactions in, helicity, 23:27810
amplitudes for meson—baryon interactions in, SU(3) cross relations for, 23:3746
amplitudes for n-particle production processes in, crossing relations for, 22:41873
amplitudes for processes with many-body final states, multi-Regge model for generalization of crossing relations for helicity, 22:22464 (LPTHE-TH-235)
amplitudes for production of Δ resonances, magnetic dipole dominance in Regge vertices for, 23:23486
amplitudes for $\pi + N \rightarrow \Delta + \pi$ interactions in, kinematically free, 23:27811
amplitudes for $\pi + N$ and rho $+ N$ interactions, Reggeization of invariant, 22:24659
amplitudes for $\pi + N$ interactions in, partial-wave, 22:24666
amplitudes for $\pi + \pi$ interactions in, complex-l-plane singularities in Veneziano formula for, 23:36924
amplitudes for π photoproduction in, fixed poles in first-order weak and electromagnetic, 23:5568
amplitudes for $\pi^- + p$ and $\pi^+ + p$ forward interactions at high energies in, 22:3413 (UCRL-17873)
amplitudes for spinless elastic scattering in asymptotics of partial-wave, 25:25527
amplitudes for strong interactions in, direct-channel, 25:25397
amplitudes for strong interactions in, direct-channel partial-wave, 25:25398
amplitudes for strong interactions in, direct-channel partial-wave, 25:25399
amplitudes for two-Reggeon—particle coupling, 23:37011
amplitudes from SU(6)/sub W/ vertices in quark model, 24:40446
amplitudes in cut discontinuities in, two-Reggeon, 24:13204
amplitudes in dual resonance model, multiple factorizations of N-Reggeon, 25:7758
amplitudes in multi-, factorization into signature terms of, 25:59611
amplitudes in production of neutral pseudoscalar mesons in photon reactions with nuclei in relative sign of Coulomb and, (T), 24:35624 (ITF-70-21)
amplitudes in U(6) x U(6) x O(3) with absorptive correction cuts for $0^- + {}^1/_2{}^+ \rightarrow 0^- + {}^1/_2{}^+$ charge-exchange interactions, 24:13102
amplitudes in, analytic continuation for, 22:50364
amplitudes in, effects of cut correction to, 24:20252
amplitudes in, elimination of parity-doubled states from, 25:45737
amplitudes in, fixed and Regge poles in Veneziano, 23:30836
amplitudes in, helicity, 23:23564
amplitudes in, kinematic singularities in generalized partial-wave analysis of relativistic, 23:30831
amplitudes in, loops in Argand diagrams of partial-wave projections of, 23:32850
amplitudes in, loops in partial wave expansion of asymptotic, 23:5696
amplitudes in, natural zeros of residues in Reggeization of invariant, 22:44512
amplitudes in, S-matrix model and inelasticity functions from asymptotic partial-wave, 23:42659
amplitudes of boson elastic interactions with identical bosons in, uncorrelated jet model for Regge phases for unitarity calculation for, 25:33690 (NP-18823)
amplitudes of meson—baryon interactions in, saturation of superconvergence relations for, 22:32153
amplitudes of $\pi + N$ interactions in, use of dispersion sum rules for, 23:21110
amplitudes of $\pi + \pi$ interactions in bootstrap scheme in, 22:39378
amplitudes of $\pi^- + p \rightarrow \pi^0 + n$ interactions, Argand analysis for resonances in, 22:39399 (IC-68/51)
amplitudes of spinless meson two-body interactions with spinless mesons in, O(3,1) group for relativistic expansions of, 25:17481
amplitudes with Regge poles only for $\pi^- + p \rightarrow \pi^0 + n$ interactions, 23:23487
analysis of backward $\pi^- + p$ and $\pi^+ + p$ interactions, coupling zeros in, 22:3418
analysis of charge-exchange and hypercharge-exchange pseudoscalar-meson-baryon interactions, 22:46433
analysis of glory scattering in backward elastic alpha scattering by spinless nuclei, 25:59846
analysis of high-energy interactions in, 23:5596
analysis of $\pi + N \rightarrow \omega + \Delta$ interaction, 22:9598
analysis of $\pi^- + p \rightarrow \pi^0 + n$ interactions, predictions for N(2190) from, 21:37814
analysis of $\pi^+ + p \rightarrow \pi^0 + N^{*++}$ interactions at 2.75, 3.54, and 8.0 GeV/c, 22:29714
analyticity and Lorentz invariance in, SL(2,C) representations in explicitly energy-dependent basis for, 24:52152 (KFKI-70-16-HEP)
angular momenta for $K + N$ and $\pi + N$ interactions at 6 to 55 GeV in, complex, (E/T), 25:3381 (JINR-P2-5320)
angular momentum for strong interactions in, review of complex, 25:19974
angular momentum in, complex, 24:15687
Argand diagrams and partial cross sections for eikonal scheme in, 25:17495
Argand diagrams in, resonance interpretation from, 24:37790
Argand-diagram loops from crossed-channel Regge poles, 23:15091

asymptotic behavior for infinite high-energy increasing-mass resonances in, unitarity for, 24:52085 (AD-705550)
asymptotic behavior in, infinite one-particle-exchange type model from, 25:56579
asymptotic behavior of amplitude for two spinless particle interactions, 24:5324 (NP-18078)
asymptotic behavior of amplitudes in Virasoro model, complex angular-momentum analysis of, 24:13206
asymptotic properties of production amplitudes in field-theory model, 23:21170
baryon and meson exchange in, triquark and biquark propagators with constant residues for, 25:30834
baryon electromagnetic mass differences in Reggeized tadpole model, 22:9544
baryon exchange calculations for backward $\pi + N$ and $K + N$ interactions in, comparison with experiment, 23:46735
baryon exchange in inelastic $p + p$ interactions at high energies, multi-Regge, 23:34604
baryon exchange model for backward $\gamma + N \to \pi + N$ interactions at high energies, 25:1446
baryon exchange model in, for $\pi^- + p \to K^0 + \Lambda$ backward interactions, 23:27806
baryon exchange model predictions for $\pi^- + p \to \pi^0 + n$ interactions at 2 to 5 GeV/c, 22:44429
baryon interactions with mesons and baryons in, U(6) x U(6) symmetry for, 22:39456 (IC-68/43)
baryon interactions with pseudoscalar mesons at high energies in, 22:39412
baryon isomultiplets in, sequences of, 22:39415
baryon resonances from $\pi^- + p$ and $\pi^+ + p$ scattering, $Y = 1$, 22:1438
baryon trajectories in relativistic quark model, Veneziano representations for, 24:37781
book: Regge Poles in Particle Physics, 23:3706
bootstrap calculations using resonance duality and, 23:1718
bootstrap equation in, multiperipheral, 24:49628
bootstrap equations in, conjectured set of exact, 23:49061 (CALT-68-221)
bootstrap of K^* in $K\pi$ channel in, 22:5670
bootstrap of rho trajectory in $\omega + \pi \to \pi + \pi$ interactions, 22:3381
bootstrap theory in, 21:18980
bootstraps for resonance production in $\pi + N$ interactions in, finite-energy sum rules for, 25:17503
boson daughter trajectories for scalar-meson—scalar-meson interactions in, Feynman diagram models for, 25:1507
boson daughter trajectories in, iteration principle for, 23:37026
branch cut contributions to backward unequal-mass scattering amplitude, (T), 24:43064
branch point contribution to amplitudes for $\pi^- + p \to K^+ + \Sigma^-$ and $K^- + p \to \pi^+ + \Sigma^-$ interactions, 22:20263
branch points connected with p and p' poles for $\pi^- + p$ and $\pi^+ + p$ elastic and charge-exchange scattering in, 21:42357
branch points in complex angular momentum plane, 23:30843
branching effect in p and p' poles in $\pi^- + p$ and $\pi^+ + p$ interactions at high energies, 22:44437
charged-particle partial-wave amplitude in, validity of representation for, 21:46602
classification and conspiracy of Regge pole families, 23:7180 (NP-17689)
composite particle elastic interactions at high energies in, nuclear democracy in, 21:42456
composite particles with mass spectrum in, 23:46809
conference, 25:1481 (CONF-691202)
consistency of multi-Regge exchange model for $\pi^- + p \to \pi^- + X + p$, $X \to \pi^+ + \pi^-$ interactions at 25 GeV in bubble chamber, 23:14985
conspiracies in forward $\pi + N \to \text{rho} + N$ interactions, 22:9603
conspiracies in $\text{rho} + \text{rho} \to \pi + \pi$ interactions, Feynman-diagram model of, 22:46406
conspiracy and classification of Regge-pole families in, 22:46561
conspiracy and counterconspiracy in equal-mass scattering, 23:15257
conspiracy and daughter poles in scalar, πN, and pseudoscalar-vector scattering, 23:5598
conspiracy and duality in model for forward cross sections of $\gamma + N \to \pi^-(\pi^+) + \Delta^{++}(\Delta^-)$ interactions in, 25:3318
conspiracy and evasion in A_1 and rho production in anti $N + N$ charge exchange and $N + N$ interactions at high energies, 22:13744 (IPNO/TH-108)
conspiracy and evasion in π^+ and K^+ photoproduction, 22:37113
conspiracy and factorization for $n + p$ and anti $p + p$ charge-exchange interactions in broken exchange-degenerate, 25:7652
conspiracy and Regge pole family classification in $N + N \to N + N$ and particle interactions in, minimal solutions to, 23:39745 (LNF-69/23)
conspiracy and residue from finite-energy photoproduction sum rule, π, 22:44365
conspiracy effects on ratio of real to imaginary part of amplitudes of $p + p$ interactions, meson π, 24:10786
conspiracy equations for $\pi + \text{rho} \to N + \text{anti } N$ and $\pi + N \to \text{rho} + N$ interactions, 22:20222 (INP-555/PH, pp 107-14)
conspiracy in amplitude of two-body interactions of arbitrary-mass and -spin particles in, group theoretical approach for, 22:34869 (NP-17483)
conspiracy in anti $N + N$ and $N + N$ forward charge-exchange interactions at high energies, rho', 22:20277
conspiracy in arbitrary-mass and -spin particle interactions, group theory for, 22:39361 (CERN-68-7(Vol.2), pp 45-54)
conspiracy in $K + N \to K^*(890) + N$ interactions, $C = -1$ exchange contribution and B-exchange, 22:26650 (NP-17430)
conspiracy in $n + p \to p + n$ interactions at high energies, (T), 24:45544
conspiracy in $\pi + N \to \text{rho} + \Delta$, $K + N \to K^* + \Delta$, and $\pi + N \to f^0 + \Delta$ interactions, π, 22:5594
conspiracy in π^- and π^+ production in $\gamma + N$ interactions, 22:20197
conspiracy in π^+ photoproduction, β and π, 22:34928
conspiracy in, class of Lorentz group theoretical solutions for general, 22:48295
conspiracy mechanism for photoproduction interactions, hypothesis of narrow-resonance duality for, 25:33606
conspiracy of B and rho' from π-photoproduction sum rules, 23:3682
conspiracy of π and B in π^+ photoproduction in forward direction, exchange-degenerate, 23:23428
conspiracy of π pole in particle interactions, 22:39369
conspiracy of π Regge pole in π^+ photoproduction, 22:20183
conspiracy of π trajectory in photoproduction interactions, 22:46360
conspiracy of singularities in j plane for interactions of arbitrary-spin particles, 22:35023
conspiracy relation for anti $N + N \to Y + \text{anti } Y$ interactions, 22:29686
conspiracy relations and classification of Regge-pole families for scattering, analytic approach to, 24:1665
conspiracy relations and classification of trajectories in, analyticity and factorization for, 23:42763
conspiracy relations as limits of unequal-mass relations in, equal-mass, 22:50383
conspiracy relations for direct-channel amplitudes, 22:32222
conspiracy relations for $\gamma + N \to \pi + \Delta$ interactions, 24:52014
conspiracy relations for unequal-mass scattering, 22:44406
conspiracy relations, daughters, and Lorentz symmetry for helicity amplitudes in, 23:32848
conspiracy residues and trajectories in π^+ production in $\gamma + N \to \pi^+ + N$ interactions at high energies, 22:37100 (IC-68/40)
conspiracy trajectories for arbitrary masses in, group theoretical approach to, 23:46847
conspiracy, cut, and evasion models for $\pi^- + p \to \text{rho}^0 + n$ interactions, (E/T), 25:5380
conspiracy, Lorentz symmetry, and Toller poles in, 23:10797 (UCSD-10-P-10-47)
conspirator trajectories in, Lorentz symmetry for, 23:44733
conspirators and daughters in unequal-mass nonzero-spin scattering, 22:46546
constraints and factorization in, 23:1703 (LPTHE-TH-68/14)
contributions to kinematic singularities of helicity and transversity amplitudes, asymptotic, 23:3848
coupling constant ratio for $\pi^+ + p \to p + \text{eta}'$ and $\pi + N \to N + \text{eta}$ interactions for eta—eta' mixing angle in, 24:37778 (COO-1428-214)
coupling of Regge poles to nucleons, field-theoretic model for, 22:20252
coupling of Regge trajectory to baryons, comparison of density matrices for vector-meson production with, 22:5589
coupling of three Reggeons in, generalized Veneziano model for, 23:42765
couplings at zero momentum transfer, ω independence of internal Regge, 24:8742
couplings in $\pi + N$ interactions, helicity structure of, 25:53195
couplings of π trajectory in production processes, 22:11681
cross duality model for $\pi + \pi$ interactions, (T), 24:42960
cross sections in CHKN Regge pole model, energy dependence of total, 23:10798
cross-section relations for π, eta, and K production in $\gamma + N$ interactions, 22:17905
crossing in, four-mass kinematics for, 22:5675
crossing relations for high-energy production amplitudes in, 21:37815
crossover in anti $p + p$ and $p + p$ interactions and $K^- + p$ and $K^+ + p$ interactions in, 24:3679
crossover phenomena in, 23:23564
current algebra sum rules valid in, asymptotic, 23:3704
current amplitudes in perturbation theory model, non-Regge terms in single, 22:3541
cut amplitude as optical potential in $p + p$ interactions at high energies and large angles, 24:21995
cut conspiracy and evading K trajectories in $\gamma + p \to K^+ + \Lambda$ interactions at 5 to 16 GeV, 23:44622
cut contribution to amplitude for forward charge-exchange $n + p$ interactions, moving, 23:34614
cut contribution to amplitudes for $p + p$ interactions, signature of, 23:25660
cut contribution to cross sections for elastic $p + p$, anti $p + p$, $K^+ + p$, and $K^- + p$ interactions at high energies, (E/T), 24:45517
cut contribution to elastic $K^- + N$, $K^+ + N$, and $K^- + p \to \text{anti } K^0 + n$, and $K^+ + n \to K^0 + p$ interactions in, (E/T), 24:52098
cut contributions in absorption model for amplitudes in, local duality properties from, 24:49612
cut contributions in model for two-body inelastic interactions, moving branch points from, 24:3588
cut contributions in $p + p$ diffraction scattering, 24:8672
cut contributions to amplitudes for π and K production in $\gamma + p$ interactions, moving, 23:34565
cut contributions to amplitudes of $n + p$ charge exchange, pseudoscalar meson photoproduction, and vector meson production in $\pi + N$ interactions at high energies in, 24:20179
cut contributions to exchange degenerate trajectories from duality, 24:3673
cut contributions to forward amplitudes for $\pi + \pi$ interactions, 22:32137
cut contributions to $\gamma + p \to \pi^0 + p$ interactions, 24:3579
cut contributions to inelastic scattering, absorption model for, 22:48323
cut contributions to scattering amplitudes, model for, 23:42778
cut corrections to $\pi + N$ elastic and charge-exchange interactions above 5 GeV/c, absorptive-model, 25:3390
cut diagrams for $\pi + d$ interactions at high energies, Glauber approximation in potential theory for, 23:51960
cut dominance for hadron electromagnetic form factor relation with diffraction peak widths of vector meson charge-exchange interactions and $p + p \to p + p$ interactions at high energies, 23:51896
cut effects on spin-density matrix elements in, 24:37868
cut from nonplanar duality of amplitude, 23:52022
cut in angular momentum plane, Van Hove model for, 24:47520
cut in $\pi^- + p$ and $\pi^+ + p$ interactions at high energies in quantum electrodynamics, 23:51987
cut interference with pole exchange for π^0 and eta production in $\gamma + p$ interactions, (E/T), 24:37709
cut model for $\gamma + p \to \pi^0(\text{eta}) + p$ interactions in, duality and meson trajectories in, 25:36441
cut model in, two-particle unitarity in, 25:12289
cut model satisfying crossing symmetry for partial-wave amplitude, 25:33863
cut model with strong-absorption in, nonsense wrong-signature zeros in, 25:47783
cut models for amplitudes of hadron—hadron and photon—hadron backward interactions at high energies, 23:51941
cut models for $K^- + n \to \Lambda + \pi^-$ interactions, dip structure in, (E/T), 24:30531
cut phenomenology in, review of, 25:33669 (INP-713(Vol.2), pp 122-37)
cut relation with Feynman diagrams for eikonal approximation, 24:52219
cuts and duality for $\gamma + p \to K^+ + \Lambda(\Sigma^0)$ interactions in, 25:17424
cuts and poles in $\gamma + N \to \text{eta} + N$ interactions at high energies, 24:21953 (ITF-70-2)
cuts and poles in $\gamma + N \to \pi^0\ (\text{eta}^0) + N$ interactions in, 24:21952 (ITF-70-1)
cuts and poles in, collision between complex, 25:33881
cuts and poles in, perturbation theory for mixing of, 22:29771
cuts due to absorption in $\gamma + N \to \pi^0 + N$ interactions in, 25:43601
cuts for factorization relations for amplitudes at $t = 0$, moving two-Reggeon, 25:5435
cuts for finite-energy sum rules for total cross sections of forward $\pi + N$ interactions at high energies in, 25:22824
cuts for hadron interactions in, duality-preserving, 23:46715
cuts for hadron interactions with hadrons at high energies, comparison with evidence for trajectories and, 23:51961
cuts for minima and polarization in elastic and charge-exchange $\pi + N$ interactions in, non-Pomeranchuk, 25:20006
cuts for multiple rescattering in $p + p \to p + p$ interactions at high energies and large angles, 24:20180
cuts for multiple scattering corrections for $\gamma + N \to \pi + N$ interactions, 23:46642 (NP-17999)
cuts for polarization in pseudoscalar octet particle charge-exchange interactions, 23:44666
cuts for pseudoscalar meson—baryon forward interactions in, superconvergence relations in presence of, 22:5576
cuts for $\pi^- + p \to \text{eta} + n$ in, continuous-moment sum rules and absorptive, 23:42680
cuts for scattering amplitudes at high energies, iteration of two-Reggeon, 23:37023
cuts for scattering amplitudes in, absorption and Glauber models for, 25:19992
cuts for scattering amplitudes, asymptotic contribution of, 23:23557
cuts for strong interactions, review of, 25:56475 (RPP/C-24)
cuts for unitarized finite-energy sum rules for charge-exchange $\pi + N$ interactions, 25:43637 (DESY-71/24)
cuts for vanishing total cross sections and constant diffraction peaks, 22:9710
cuts from density matrix elements of ω in $\pi^+ + p \to \omega + \Delta^{++}$ interactions, test of empirical rule for, 25:36502 (CALT-68-300)
cuts from Feynman diagrams, absorptive, 23:52023
cuts from multiple scattering amplitude relations for π^- and π^+ reactions with helium-4, 24:37934 (RLO-1388-572)
cuts from nonplanar duality amplitude, 24:13208
cuts from nonplanar Feynman-like duality diagrams, 24:18301
cuts from pomerons and leading reggeons, dual, 25:25539
cuts in absorption model for polarization in $\pi^- + p \to \pi^0 + n$ interactions, 23:3749
cuts in absorption models in, 25:30826
cuts in angular momentum in scattering amplitudes, corrections for, (T), 23:5638 (CALT-68-173)
cuts in angular momentum plane and asymptotic behavior for strong interactions, 22:17935
cuts in angular momentum plane for diffraction scattering, 23:5703
cuts in angular momentum plane, $\gamma + N \to \pi^0 + N$ and $\gamma + N \to N^* + \pi^0$ interactions as tests for, 22:22354
cuts in angular momentum plane, removal of Gribov—Pomeranchuk singularities from amplitudes by, 21:37936

cuts in backward $\pi + N$ interactions in, kinematic, 24:35663
cuts in backward $\pi + p$ interactions in, fixed-transfer dispersion relations for, 23:36935
cuts in complex angular momentum plane, Cabibbo—Horwitz—Ne'eman angebra for, 22:17936
cuts in complex angular momentum theory, 22:41875
cuts in complex j-plane for meson—baryon interactions, 23:3742
cuts in complex-angular momenta method for $\pi^+ + p \rightarrow \pi^+ + p$ and $\pi^- + p \rightarrow \pi^0 + n$ interactions, 24:10767
cuts in complex-L plane for strong interactions in, effect of CHN universality on, 23:15289
cuts in diffractive $p + p \rightarrow p + p(N^*)$ interactions at 20 GeV/c, 23:51962
cuts in eikonal approximation in field theory, 25:41071
cuts in elastic and charge-exchange hadron interactions with hadrons, review of, 23:51916
cuts in elastic strong interactions, review of, 25:53135
cuts in Glauber multiple scattering model, finite-energy sum rules for, 23:37010 (DESY-69/20)
cuts in high-energy elastic scattering, absorptive corrections for, 22:20342
cuts in inelastic two-body strong interactions at high energies, review of, 25:53137
cuts in $K + N \rightarrow K + N$, $N + N \rightarrow N + N$, and $\pi + N \rightarrow \pi + N$ interactions in, vacuum pole contributions to inelastic scattering cross sections for two-Reggeon, 25:33586
cuts in Kikkawa—Sakita—Virasoro model for scattering amplitudes, 24:49605
cuts in l-plane, cusps on, 24:1662
cuts in $N + N$ interactions, tests for, 22:5608
cuts in $N + N$ scattering amplitude from spin dependence in $p + d$ and $p + \alpha$ interactions at 1.67 and 18 GeV/c, 22:44456
cuts in $\pi + N \rightarrow N + \pi$ backward interactions, fixed, 24:40385 (COO-264-550)
cuts in π^0 photoproduction, model for, 23:18852
cuts in $\pi^- + p \rightarrow K^+ + \Sigma^-$ interactions from exchange of rho and K^*, 22:3426
cuts in quark models for hadron—proton multiple interactions, 23:51959
cuts in scattering amplitudes at high energies in, selection rules for, 25:59440
cuts in strong interactions in, test of empirical rule for, 25:36502 (CALT-68-300)
cuts in Σ polarization in $\pi^+ + p \rightarrow K^+ + \Sigma^+$ and Λ polarization in $\pi^- + p \rightarrow K^0 + \Lambda$ interactions in, test of empirical rule for, 25:36502 (CALT-68-300)
cuts in t-channel amplitudes of $\gamma + N \rightarrow N +$ pseudoscalar meson interactions in, effects of s-channel helicity conservation on contributions of, 25:22736
cuts in unitarity model for cross sections of $p + p$ interactions at 24 to 70 GeV in, 24:37805 (RLO-1388-571)
cuts in Van Hove model for differential cross sections and polarization in forward $\pi^- + p \rightarrow \pi^0 + n$ interactions, 25:41001 (RLO-2041-57)
cuts in Veneziano model for $\pi + N \rightarrow N + \pi$ backward interactions in, 24:15578 (COO-264-529)
cuts in, conference on, 23:52018
cuts in, conference on, 23:52024
cuts in, elimination of exotic resonances from, 23:21171
cuts in, inclusion in finite-energy sum rules for inelastic scattering, 23:8857
cuts in, iterations of, 23:52020
cuts in, relation between models for, 25:47990
cuts in, unitary model for, 24:40423
cuts in, vanishing total cross sections and twisting trajectories from condensation of, 21:31640
cuts, fixed poles, and Kronecker deltas in, mechanisms for, 25:25530
daughter hypothesis in quark model for meson Regge families, 24:1603
daughter pole hypothesis of N(1400) for phase-shift analysis of P_{11} $\pi + N$ interactions, 22:52988
daughter poles and analytic continuation of Khuri amplitude in, relation of, 23:5702
daughter poles at nonvanishing energy for spinless particles, Bethe—Salpeter equation for, 24:1533
daughter poles in helicity amplitudes at $s = 0$, 24:15691
daughter sequences in unequal-mass vector-meson—scalar-meson interactions, 23:23467
daughter sequences in, consequences of broken O(4) symmetry for, 23:36964
daughter structure of conspiring Regge-pole families from $t = 0$ analyticity constraints, 23:7185
daughter trajectories and conspiracies for scattering of arbitrary-spin particles, Lorentz symmetry for, 23:5709
daughter trajectories for amplitudes of unequal-mass scattering, 24:1675
daughter trajectories for baryon resonances from SL(2,C) description of relativistic scattering, 23:44694
daughter trajectories for Bethe—Salpeter equation, slopes of, 22:46548
daughter trajectories for equal- and unequal-mass scattering, Bethe—Salpeter ghosts for, 23:49222
daughter trajectories for nucleon isobars from $\pi + N$ interactions in P_{11} channel, 23:27818
daughter trajectories for $\pi + \pi \rightarrow \pi + \omega$ and $\pi + \pi \rightarrow$ eta + rho interactions, residues of, 23:15106
daughter trajectories for saturation of finite-energy sum rules, infinite sequence of, 23:32852
daughter trajectories from sum rules and partial-wave analysis of $\pi + \pi \rightarrow \pi + \omega$ interactions, 22:44412
daughter trajectories in amplitude from generalized Veneziano model, 25:9888 (ITF-70-78)
daughter trajectories in backward scattering of unequal-mass scalar particles, 23:39840
daughter trajectories in field-theoretic model, 24:28598
daughter trajectories in scattering amplitudes in, generalized Veneziano model for, 24:49629
daughter trajectories in, analyticity and broken O(4) symmetry for, 23:7188
daughter trajectories in, consequences of broken O(4) symmetry for $M = 0$, 23:32784
daughter trajectories in, duality concept for, 23:42777
daughter trajectories in, Lorentz symmetry for, 23:44733
daughter trajectories in, Veneziano model for scattering amplitudes and, 24:1663
daughter trajectories, conspiracy, and evasion in, relation of fixed poles to, 23:1704 (LPTHE-TH-68/15)
daughter trajectory in generalized Veneziano model, ghost states on, 25:43712
daughters in anti $p + n \rightarrow \pi^+ + 2\pi^-$ interactions, rising phase shift model for, 24:37761
decay $K \rightarrow \pi + l + \tau$ in quark model in, form factors and Cabibbo angle for, 25:36456 (ORO-3992-39)
decay widths of N^* resonance in broken SL(2,C) model, elastic, (T), 22:50389 (KFKI-21/1968)
density matrix elements in single-particle production, double Regge model for, 22:35138
description of extended particles, 23:7103
determination of Regge-pole parameters for charge-exchange interactions involving rho and R trajectories, 21:37822
developments in, review of, 22:5679
diagrams with three-reggeon vertices, Polkinghorne method for, 25:3456
diffractive corrections in model of, relations between conspiracy conditions and, 24:42903
dips and ghost-killing mechanism in, 23:23564
dispersion relations from Regge pions in $\pi \rightarrow \mu + \tau$ decay and $\mu + \tau$ production from antibaryon interactions with baryons, unsubtracted, 22:17922
dispersion sum rules in, 22:1426 (JINR-E2-3511)
double-pole model for amplitudes of interactions at high energies in, 25:30751 (IS-T-426)
double-Regge-exchange model for $\pi^+ + p \rightarrow \pi^+ +$ rho^0 $+ p$ interactions at 13.1 GeV/c, (E/T), 24:40404
double-Regge-pole model for $p + p \rightarrow p + \pi^+ + \Delta^{++}$ interactions at 22 GeV/c, 25:43580
double-Regge-pole model for πrho enhancement in $\pi^- + p \rightarrow p + (\pi\text{rho})^-$ interactions, (T), 24:37789
dual absorptive model for dips in inelastic strong interactions in, 25:38734
dual amplitude analysis of ditriple Regge limits in hadron interactions, Reggeon—Reggeon amplitude and duality sum rule from, 25:53378
dual amplitude for arbitrary number of spinning-particle interactions, consistent multiple factorization of, 24:47525
dual amplitude for internal space—time structure of bosons in, Veneziano, 24:52081
dual amplitude for two-fermion—three-boson scattering in, meromorphic, (T), 24:42896
dual amplitude in, complete factorization of satellite terms in N-particle, 24:20244 (COO-264-536)
dual amplitude in, factorization of satellite terms in N-particle, 24:37947
dual amplitude in, proper time formulation for general, 25:36593
dual amplitude with Mandelstam analyticity for $\pi + \pi \rightarrow \pi + \pi$ interactions in, 25:36492
dual amplitude with Mandelstam analyticity for $\pi + \pi \rightarrow \pi + \pi$ interactions, 25:43623 (ITF-71-28-E)
dual amplitude with satellites in, degeneracy of generalized N-body, (T), 24:43057 (COO-264-551)
dual amplitude with satellites in, n-particle, 24:22012 (COO-264-537)
dual amplitudes for six-body π production in, 25:12131
dual amplitudes in parton model for hadron strong interactions in, 24:37744
dual amplitudes in, fermions and mesons in meromorphic mathematically, 25:22719
dual amplitudes in, method of coherent states for factorization of N-point, 25:20120
dual amplitudes in, symmetric vertex in factorization for tree structure of, 24:26520
dual amplitudes in, twisting-invariant factorization of multiparticle, 24:24455
dual amplitudes of hadron interactions in, coherent state method and diagram technique for, 24:35616 (JINR-E2-5182)
dual amplitudes of meson interactions with baryons in, quark model for dynamical origin of, 25:40995
dual amplitudes of meson interactions with mesons in, quark model for dynamical origin of, 25:40995
dual amplitudes of $\pi + \pi \rightarrow \omega + \pi$ and $\pi + N \rightarrow \pi + N$ interactions, basic assumptions for, 25:50126 (NP-18967)
dual amplitudes of strong interactions in, quark model for dynamical origin of n-body, 25:40995
dual amplitudes with cuts for two-body spinless and equal-mass particle scattering in, (T), 24:45492 (IC-70/89)
dual Bardakci—Ruegg model for mass dependence of slopes in differential cross sections for three-body production processes in, 24:47390
dual conserved current from local field interpretation of multiparticle Veneziano hadron amplitude in, 24:40355
dual crossing symmetric amplitudes with Mandelstam analyticity in, 25:14821
dual current amplitudes with spurious states for hadron interactions in, 25:22711 (NP-18716)
dual five-point function for phenomenological analysis of anti $K + N \rightarrow$ anti $K + \pi + N$ interactions, 25:53188
dual local electromagnetic current for hadrons in, 25:28021
dual loop in variables s, t, and u for scattering amplitudes in, four-particle nonplanar, 25:50184 (COO-264-581)
dual loop in, factorization of satellite terms in N-particle amplitude for single planar, 24:22013 (COO-264-541)
dual loop terms and counterterms in, projective group for unified treatment of, 25:17583 (COO-264-567)
dual model for meson interactions with baryons in SU(3) symmetry in, 25:14766
dual model for rho' production in diffractive $e + p \rightarrow e + \pi^- + \pi^+ + p$ interactions in, 25:12137 (DESY-70/56)
dual model in, general N-point vertex in, 24:28632
dual model in, operatorial approach for analysis of multiparticle, 25:43578
dual model theories from spin—isospin interchange in Yukawa $\pi + N$ interactions, existence of isospin-3/2 vector K prediction from, 24:49498
dual models for 6-body amplitudes of $\pi^+ + \pi^-$ interactions, no-go theorems for positive-intercept, (T), 24:42943 (COO-264-554)
dual models for Pomeranchuk term with crossing symmetry in $\pi + \pi$ interactions in, 24:26434
dual models for strong interactions in, lectures on, 25:30823 (CERN-71-7, pp 285-358)
dual models in, review of, 25:31015 (MIT-2098-726)
dual models in, review of unitarization of, 25:30825
dual multi-Veneziano spinning particle amplitudes in, 25:14586
dual multiparticle theory with nonlinear trajectories in, review of, 25:45816 (COO-1764-120)
dual N-meson amplitudes incorporating any kind of linear trajectories in, algorithm for, 25:33689 (LPTHE-TH-71/11)
dual N-point amplitudes in, loops in coherent-state model for factorization of, 25:17585 (JINR-E2-5568)
dual operator representation for N-particle amplitudes, explicit, 24:26521
dual resonance amplitudes in, factorization without spurious states of, 24:20263
dual resonance amplitudes in, functional formulation of, 25:43722
dual resonance model compatibility with gauge boson interactions for electromagnetic and weak interactions, 25:40919
dual resonance model for hadron interactions with photons and weak bosons in, with minimal gauge principle, 24:40299
dual resonance model for μ^-p resonance production n $\tau + p \rightarrow \mu^- + p$ interactions, 25:40942
dual resonance model for positivity of partial widths and s-wave scattering lengths for $\pi + \pi$ interactions in, rho trajectory doubling in, 25:40980
dual resonance model for properties of meson coupling to baryons, rigorous inequalities from positivity and duality in zero-width approximation for, 25:50130
dual resonance model for $\pi\pi\pi$N anti N five-point function for $\pi^+ + p \rightarrow$ rho$^+$ $+ p$ interactions, (T), 24:45538
dual resonance model for $\pi\pi\pi$N anti N five-point function for $\pi + N \rightarrow \pi +$ anti $\pi + N$ interactions at high energies in, (T), 24:45537
dual resonance model for two-peaked structure of A_2 in, 25:40942
dual resonance model in, double proper-time formulation of, 25:40960
dual resonance model in, functional representation of Green function for Nambu—Miyamoto equation for, 25:22906
dual resonance model in, general trees and loops in unitarization of, 25:33852 (UCRL-20272)
dual resonance model in, twisting invariant factorization in, 25:36594
dual resonance model with different trajectories in, operator formalism for, 25:38799 (OU-LNS-71-4)
dual resonance model with nonlinear trajectories in, 4-, 5-, and N-point functions and loop diagrams in, 25:9884 (COO-1764-90)
dual resonance model with quark spin for $\pi + \pi \rightarrow \pi + \pi$ interactions, 24:52068 (COO-264-557)
dual resonance models for angular momentum structure of resonances in, Bose-gas theory for, 25:3366
dual resonance models for construction of six and eight $\pi + \pi$ amplitudes in, physical, 24:37767
dual resonance models for hadron electromagnetic and weak interactions in, current amplitudes in, 25:22724 (CONF-700948-1)
dual resonance models for interactions of arbitrary number of spinless bosons in, general treatment of factorization in, 23:46714
dual resonance models for many-body scattering amplitudes in, unitarity for factorization theorem for removal of level degeneracy in, 25:25523 (OU-LNS-71-1)
dual resonance models for meson N-body interactions in, uniqueness of Paton—Chan isospin factor for exclusion of exotic states in, 25:17491
dual resonance models for vector currents in, 25:36490
dual resonance models for vector currents in hadron interactions, 24:42892 (UCRL-19780)
dual resonance models in, algebraic structure of generalized Ward identities in, 25:36591
dual resonance models in, review of, 25:9887 (ITF-70-43)
dual resonance models in, satellite terms in, 24:10848 (COO-264-528)
dual resonance models preserving properties of original Veneziano amplitude in, class of integral representations of, 24:37932 (LNF-69/79)
dual resonance models with nonlinear trajectories in, rules for Veneziano N-point function construction in, 25:9885 (COO-1764-98)
dual resonance models with nonlinear trajectories in, rules for Veneziano 5-point function construction in, 25:9885 (COO-1764-98)
dual resonance models with residues having maximum fixed finite number of logarithmic poles for amplitudes of spinless particles, 25:17489
dual resonance theory with nonlinear trajectories, loop diagrams in, 25:9691 (RLO-1388-592)
dual resonant 6- and n-body π amplitudes in, 24:52083
dual six-point function for normalization of anti $p + p \rightarrow 4\pi$ interactions at rest in Veneziano model in, 25:5362
dual SL(2R) symmetry for hadrons in, conformal invariance in, 24:47495

dual structure in $\pi + N$ charge-exchange interactions in, modified finite-energy sum rule for, (T), 24:49488 (NP-18417)
dual structure in $\pi + N$ charge-exchange interactions in, modified finite-energy sum rule for, 25:41003
dual symmetric theory for total cross sections of spinless meson interactions in, 24:18167
dual theory with quark focusing at hadronic vertices for strong interactions in, 24:45490 (COO-264-556)
dual vertex for hadrons in harmonic oscillator model in, 25:28021
dual vertex for total widths on leading trajectory in, high-spin, 24:52056
dual-resonance model in, selection rule for real and spurious states in, 25:1647
duality among leading trajectories for finite-energy sum rule predictions for $\pi + \pi$ interactions, 25:1523
duality and absence of exotics for decoupling of leading isovector trajectories from Δ + anti Δ^- interactions and baryon charge-exchange interactions with antibaryons in, global, 24:40364
duality and analyticity for poles in Veneziano representation in, 25:14829
duality and crossing symmetry in narrow-resonance Veneziano amplitude for $\pi + \pi \rightarrow \pi + \omega$ interactions, (T), 24:45522
duality and gauge properties of twisted propagators in multi-Veneziano theory in, 24:40489
duality and meson trajectories in cut model for $\gamma + p \rightarrow \pi^0$(eta) + p interactions in, 25:36441
duality and Regge behavior for scattering amplitudes with finite-width resonances, 24:8737 (SU-1206-208)
duality between exchanges and direct-channel N^* resonances in, 24:18213
duality classes for $\pi + N$ interactions, 24:52090
duality compatibility with conservation of t-channel helicity in diffractive dissociation processes in, 25:36595
duality diagrams for amplitudes of strong interactions, 25:47837
duality for baryon and meson resonances in, review of, 25:7637 (CONF-690608-, pp 387-409)
duality for baryon spectra in, 25:25441
duality for correspondence between K^* exchange and resonant amplitudes in $K^- + p \rightarrow \pi + \Sigma$ interactions at 1 to 3 GeV/c, 24:1599
duality for dynamics of narrow-resonance one-term Veneziano ansatz for $\pi + \pi$ interactions, atonous, 24:1586
duality for hadron inelastic differential cross sections at high energies, 24:52066
duality for inelastic contributions to total cross sections for d + d interactions at high energies in, 25:22847
duality for K^* exchange and Δ and Λ production in $\pi^+ + p \rightarrow K^+ + \Sigma^+$ interactions, 24:1599
duality for low-energy parameters for $\pi + \pi$ and $\pi + K$ interactions in, 24:24348
duality for meson interactions with nucleons in quark model, total cross section relations from, 24:35653 (ITF-70-24)
duality for nonet degeneracy in $\pi^+ + p \rightarrow \pi^+ (K^+) + p(\Sigma^+)$ and $K^+ + \Sigma^+ \rightarrow K^+ + \Sigma^+$ interactions in, 24:24381
duality for resonance behavior in e + p interactions at high energies, 24:51902
duality for resonances and Reggeons in, 25:7632
duality for S- and P-wave nonleptonic hyperon decay, 24:3611
duality for scattering amplitudes in, 24:40500
duality for scattering lengths in $\pi + \pi$ interactions, 25:5363
duality for simplification and parametrization of two-body strong interactions at high energies, 24:18150 (CONF-690330-, pp 130-51)
duality for strong interactions in, lectures on, 25:19978
duality for strong interactions, review of phenomenological, 24:8617 (NYO-4076-4)
duality for triple Reggeon coupling relation with low missing-mass spectrum in diffraction dissociation in two-body interactions, 25:36420 (UCSD-10-P-10-78)
duality formalism for three-resonance vertex, twisted propagator in operatorial, 24:3621
duality formalism in, gauge transformation operator for tree diagrams and vertices in, 24:20223
duality from amplitudes for $\pi^- + p \rightarrow \pi^+ + \Delta^-(1236)$ interactions at 1.5 to 1.8 GeV, evidence of, 24:5307
duality hypotheses for exchange degeneracy in strong interactions in, 25:30825
duality in, 25:7631
duality in deep inelastic e + p interactions in, field theory for, 25:59363
duality in double-Regge-pole model for $\pi^+ + p \rightarrow \pi^+ + f^0 + p$ interactions at 13.1 GeV/c, 25:17507
duality in Δ^{++} production in $\pi^- + p \rightarrow p + \pi^+ + 2\pi^- + \pi^0$ interactions at 11 GeV/c in hydrogen bubble chamber, modified multi-Regge model for, 24:3521 (DESY-69/37)
duality in e + N inelastic interactions, review of, 25:12068 (SLAC-PUB-842)
duality in extended version of diffraction model with quarks and partons for electron and neutrino interactions with hadrons, 24:12986
duality in hadron bootstrap for vector currents in n-body interactions of spinless mesons, 25:12177
duality in hadron interactions, graphical form of, (T), 23:21092
duality in hadron strong interactions in, review of, 24:18149 (CERN-69-29, pp 1-30)
duality in hadron strong interactions, quark model diagrams for, 23:51912 (COO-264-520)
duality in inelastic two-body strong interactions at high energies, review of, 25:53137
duality in $K + N$ interactions, empirical analysis of differences and sums of angular distributions for, 25:59477
duality in $K^- + p \rightarrow \pi^- + Y^{*+}$ and $\pi^+ + p \rightarrow K^+ + Y^{*+}$ interactions in, eikonal model with unitarity corrections for, 25:36514
duality in $K^- + p \rightarrow \pi^- + Y^{*+}$ and $\pi^+ + p \rightarrow K^+ + Y^{*+}$ interactions in, unitarity corrections to Veneziano model for, 25:1533 (UCSD-10-P-10-76)
duality in model for amplitudes of two-body elastic strong interactions in, 25:43617
duality in models for strong interactions at low and high energies, review of, 25:53134
duality in multiperipheral strong interactions at high energies in, finite-energy sum rules and Bethe—Salpeter equation for, 24:13042
duality in octet meson interactions with decuplet baryons, local, 24:28549 (SU-1206-224)
duality in $\pi + d$ interactions at high energies, (T), 24:49540
duality in $\pi + N$ and $\gamma + N \rightarrow \pi + N$ interactions, simple phenomenological regularity of near-forward zeros in amplitudes for, 24:6728
duality in $\pi + N$ interactions at low energies, Ward identities and dispersion relations with, 25:50139
duality in $\pi + N$ interactions in, 24:40390
duality in $\pi + \pi \rightarrow \omega + \pi$ interactions, Argand diagrams for, 23:32711
duality in Regge parametrization of partial waves in $\pi + N$ interactions at low energies in, 25:12211
duality in set of coupled strong interactions with two-body hadron production in, local, 25:5352 (SU-1206-235)
duality in strong interactions at high and low energies, review of, 25:12175 (COO-1764-81)
duality in strong interactions, review of, 25:7622 (CONF-690608-, pp 127-40)
duality in Veneziano model for μ^-p and μ^+p resonance production in $\tau + n \rightarrow \mu^- + p$ interactions, 25:45707 (OU-LNS-71-3)
duality in, formulation of, 25:7762
duality in, lectures on, 25:20102 (NP-18705)
duality in, review of, 24:20243 (BNL-50212, pp 385-481)
duality in, review of, 25:31015 (MIT-2098-726)
duality in, review of Dolen—Horn—Schmid, 24:13029 (INP-682, pp 156-67)
duality in, review of Pomeranchuk singularity for amplitudes of strong interactions in, 25:7634
duality in, three-Reggeon vertex-generating, 24:52228
duality model for inelastic $\tau + N$ interactions at high energies in, damped residue function and asymptotic limit of scaling function in, 25:28006
duality of binary amplitudes in, mathematical and phenomenological, 24:15679
duality of Pomeranchuk trajectory with W trajectory in, 25:53379
duality of scattering amplitudes in, asymptotic behavior of trajectory from weak, 24:15684
duality predictions test in partial-wave analysis of anti $K + N \rightarrow \pi + \Sigma(\Lambda)$ interactions, 25:43642 (UCR-34-P-107-B-106)
duality principle in, use of dispersion relations for derivation of, 23:49123
duality Reggeons and resonances in, conference on, 25:7580
duality relation with interference model for resonances in, 25:14678
duality relation with local unitary equivalence in, 25:5414
duality relation with local unitary equivalence in, 25:22876 (ITF-70-66-E)
duality relations with chiral symmetry breaking for strong interactions, 25:43619
duality requirement for complex conjugate pair of poles in proton interactions with hadrons in, rho(ω) exchange in, (T), 24:42940
duality requirement for $p + p$ and anti $p + p$ elastic interactions, 24:8678
duality sum rule for two-Reggeon-particle and triple-Reggeon couplings, di-triple Regge limits in inclusive hadron interactions for, 25:43570 (NYO-2262-TA-247)
duality sum rule from dual amplitude analysis of ditriple Regge limits in hadron interactions, 25:53378
duality without ghosts in two-body elastic scattering of spinless particles, Feynman diagram models for, 25:50079 (COO-1764-121)
duality—finite-energy-sum-rule method for width of eta $\rightarrow \pi^0 + 2\gamma$ decay in, 25:19937 (DEMO-71/2)
duality—parton model for deep inelastic $\tau + N$ interactions at high energies in freon and propane in, 25:30809
effect of double Regge pole insertions in generating cuts, 21:15427
effect of Reggeized tadpole on (p - n) mass difference, 23:10790
effects at threshold for partial-wave scattering amplitude, 21:25355
effects of Regge cuts on forward dispersion relations, 22:50474
effects of Regge cuts on $\pi^- + p$ total cross section, 21:25305
effects on $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ interactions at high energies, 21:27356
eikonal model for elastic scattering in, 25:9776
eikonal model for elastic strong interactions at high energies in, 25:30893 (INR-P-1233)
eikonal model for $N + N$ and anti $N + N$ interactions in, 24:37814
eikonal model in, validity of, 25:20115
electroproduction in e + p interactions at high energies in, 25:22728
elementary particle interactions at high energies in, book on, 22:11745
elementary particle interactions in, cross sections for, 23:8762 (INP-622(Vol.1), pp 28-38)
elementary particle Reggeization in model field theory, 21:42442
elementary particle reggeization in, dynamic limit for, 25:43672
energy poles from infinite daughter series, properties from Dirichlet series for, 23:46842
equivalence between u-channel Regge poles and p-channel resonances, Khuri amplitudes as duality test for, 24:8642
equivalence of optical model and model of, 25:50114 (COO-2009-23)
exchange amplitude for K-matrix, absorptive corrections to, 25:7748
exchange amplitudes for $K + N$ interactions, 22:26659
exchange amplitudes for $\pi + N$ interactions at high energies, 24:13111
exchange amplitudes for $\pi + N$ interactions in, sum rules relating resonance spectrum and, 21:44385
exchange amplitudes for πN bound state and resonance spectra, 22:17953
exchange contributions to electromagnetic mass differences of hadrons, 22:46370
exchange degeneracies in, review of patterns of, 25:20124
exchange degeneracy for baryon Regge poles with quark-like diagrams, 25:53205
exchange degeneracy for dips in hadron interaction cross sections, 23:15079
exchange degeneracy for hadron interactions, universal, 25:25403
exchange degeneracy for $p + p \rightarrow \pi^+ + d$ interactions, broken, 23:32773
exchange degeneracy in absorption model for elastic and charge-exchange strong interactions, 25:53159
exchange degeneracy in models for strong interactions at low and high energies, review of, 25:53134
exchange degeneracy of A_2 and rho trajectories for classification of 2^+ nonet in U(6) x U(6) x O(3) symmetry scheme, 21:33751
exchange degeneracy of ω—A_2 trajectories in Compton $\gamma + \pi^0 \rightarrow \gamma + \pi^0$ interactions, 24:35631
exchange degeneracy of rhoA_2 trajectories, duality, and secondary trajectories, from $K^+ + n$ and $K^- + p$ charge-exchange interactions, 24:5306
exchange degeneracy of vector and tensor trajectories in, breaking of, 25:17509
exchange degeneracy with exact SU(3) for hadron strong interaction amplitudes in, 24:52168
exchange degenerate model for strong interactions at high energies in, 25:53186
exchange driving force in N/D partial-wave analysis of direct-channel resonances in $\pi^- + p \rightarrow n + \pi^-$ interactions, 24:3664
exchange in $\pi^- + p \rightarrow \pi^- + \pi^+ + \pi^- + p$ interactions at 25 GeV in bubble chamber, multi-Regge, (E), 24:24237 (ANL/HEP-6909, pp 60-72)
exchange interactions in, two-body, 24:24380
exchange model for Bardakci—Ruegg scattering amplitude, 23:27885
exchange model for $K^+ + p \rightarrow K^{*0}$ (890) $+ \pi^+ + p$ interactions at 7.3 GeV/c, (E/T), 23:36939
exchange model for $\pi + p \rightarrow \pi^+ +$ rho$^0 + p$ interactions at 13.1 GeV/c, double Regge, (E/T), 24:40386 (COO-1428-170)
exchange models for high-energy $\pi + N$, $N + N$, and anti $N + N$ elastic interactions, 24:8641
exchange models for relations among residue functions and differential cross sections for $\gamma + p \rightarrow \pi^0 + p$, $\gamma + p \rightarrow \pi^+ + n$, and $\gamma + n \rightarrow \pi^- + p$ interactions in, 25:1461
exchange models in, for analysis of $p + p \rightarrow p + p + \pi^+ + \pi^-$ interactions at 8.1 GeV/c, 25:1559
exchange models in, formulation in terms of s-channel amplitude of high-energy, 22:35141
exchange of K^* and Δ in backward $K^- + p \rightarrow \Sigma^+ + \pi^-$ interactions, 23:30761
exchange of K^* and K^{**} in $\pi^+ + p \rightarrow K^+ + \Sigma^+$ interactions at 3.23 GeV/c, (E/T), 23:39724
exchange of K^* and K^{**} trajectories in $K + p$ and $\pi + p$ interactions, SU(3) symmetry breaking in, 22:17969
exchange of odd-parity Regge trajectories for forward scattering peaks, O(4) symmetry for, 21:33777
exchange of ω and β in $\gamma + p \rightarrow \pi^0 + p$ interactions, vector dominance hypothesis for, 22:48273
exchange of Regge trajectories for superconvergent relations for $\pi + N \rightarrow$ rho $+ N$ interactions, 21:42380
exchange of Reggeons in $p + p \rightarrow p + p$, $p + K \rightarrow p + K^*$, $\gamma + p$, and $\pi + p \rightarrow p + A_1$ interactions, 22:3455
exchange of rho and A_2 trajectories in $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$, $\pi^+ + p \rightarrow$ eta$^0 + \Delta^{++}$, and $K^+ + p \rightarrow K^0 + \Delta^{++}$ interactions, 23:36932
exchange of rho' trajectory in $K^+ + n \rightarrow K^0 + p$ interactions at 2.3 GeV/c, 22:3445
exchange-degenerate residues for meson—baryon and baryon—baryon interactions, 25:30878
exchanges in $\pi + N$ interactions, resonance interpretation of partial wave projection of, 24:42965
existence and properties of daughter Regge trajectories in unequal-mass scattering, 21:25350
fermion daughter trajectories for backward $\pi + N$ interactions in, Feynman-diagram models for, 25:1543
fermion daughter trajectories in, iteration principle for, 23:37026
fermion exchange in $\pi + N \rightarrow \pi + N$ and $\pi + \pi \rightarrow N$ + anti N interactions, 23:51937
fermion exchange in $\pi^- + p \rightarrow \Lambda + K^0$ interactions in, 22:46453
fermion poles in elastic and inelastic $\pi + N$ interactions at high energies, 23:36949
fermion poles in, properties of branch points in complex angular momentum plane for, 24:28621
fermion Reggeization without parity doubling in $\pi + N$ interactions in Van Hove model in, 24:13097
fermion trajectory from spin-1/2 fermion interactions with vector mesons in field theory, 22:5579
fermion trajectory in, 25:9790

Feynman diagrams in, tree graphs of generalized Veneziano model for unitary closed loops in, 24:8711
Feynman rules for Reggeons, formulation of, 22:26707
Feynman-like diagrams compatible with duality in, planar, 24:3733
field theory with compounds lying on Regge trajectories, infinite-component free, 25:38789
form factors for mesons (π) and nucleons in, convergence of electromagnetic, 24:10702
formalism combined with chiral SU(3) symmetry and exchange degeneracy for single-parameter fit to meson—nucleon forward reactions, 23:3730
formalism for A_2^+ production from $\pi^+ + p \rightarrow A_2^+ + p$ interactions at 4 and 6 GeV/c, 21:40225
formalism for analysis of elementary particle interactions, 23:15095
formalism for calculating spin-averaged differential cross sections in, 24:18098
formalism for dips in $\pi + N$ charge-exchange cross sections, 23:5637
formalism for $e + N \rightarrow \pi + N$ interactions at high energies, meson (π) electromagnetic form factor from, 24:3592
formalism for high-energy limit of hadron Compton effect, 21:42310
formalism for high-energy scattering, review of, (T), 22:50357 (CERN-68-31)
formalism for interactions at high energies, review of, (E/T), 24:5310
formalism for interactions with Regge trajectory exchange in 10^* and 27 representations of SU(3), 21:33747
formalism for $p + p$ interactions at high energies and large momentum transfers, π trajectory in, 22:46472
formalism for polarization in pseudoscalar meson—nucleon interactions at very high energies, 22:34988
formalism for polarization in $\pi^- + p$ and $\pi^+ + p$ interactions, 23:16965 (CEA-CONF-1240)
formalism for $\pi + \pi$ scattering, 23:7138
formalism for $\pi^+ + d \rightarrow p + p$ interactions, 23:3762
formalism for relativistic, from Bethe—Salpeter equation, 23:5692
formalism in Van Hove model for diffraction scattering in, 25:25532
formula for relativistic unequal-mass scattering, validity of, 21:27455
formulas for differential cross sections for $\pi + N$ and $N + N$ interactions, 22:3448
formulas for differential cross sections of quasi-two-body $\pi + N$ and $N + N$ interactions, 21:15354
formulation for amplitude of backward $\pi + N$ interactions in kinematic region, 21:33704
formulation for charged-particle scattering by nuclei with Yukawa potential, 23:7335
formulation for π electroproduction and photoproduction in, unified, 23:46648
formulation for three-body problem, 21:15415 (UCRL-17250)
formulation of models in, transversity amplitudes for, 21:40288
group theory relations with, 21:2533
hadron inclusive interactions in, cross sections for, 25:33769
hadron inclusive interactions in, multiparticle production in, 25:53131 (UCRL-20655, pp 277-340)
hadron interaction amplitudes at 7 to 15 GeV/c in, 21:40200
hadron interactions and classification in, 22:20210 (CERN-67-24(Vol.2))
hadron interactions and production in, review of research, 22:44403(R) (UCR-34-P-107-73)
hadron interactions at high energies in, 22:32120
hadron interactions at high energies in, phenomenological theories for two-body, 22:39356 (CERN-68-7(Vol.1), pp 218-51)
hadron interactions at high energies in, total cross sections for, 25:50122
hadron interactions at high energies near forward direction in model in, 22:39360 (CERN-68-7(Vol.1), pp 478-93)
hadron interactions at large angles in, cross section relations for, 23:3747
hadron interactions in, 24:15542 (LAL-1220)
hadron interactions in, 21:35295 (AD-651038)
hadron interactions in, comparison with experimental data for, 23:39723(T) (NP-tr-1826)
hadron interactions in, model for elastic, 22:39298 (CERN-68-7(Vol.2), pp 1-23)
hadron interactions in, model for total cross sections of, 22:39396 (CERN-68-7(Vol.2), pp 110-13)
hadron interactions in, review of, 24:5288
hadron interactions in, review of models for total cross section near forward direction of elastic, 22:39355 (CERN-68-7(Vol.1), pp 3-59)
hadron interactions in, space—time description of composite, 23:34575 (NYO-4067-1)
hadron interactions in, space—time description of composite, 23:34576 (NYO-4067-2)
hadron multiple production at high energies in multi-Regge model in, review of, 22:39357 (CERN-68-7(Vol.1), pp 380-412)
hadron strong interactions at high energies in, 25:1482 (CONF-691202-, Paper 1)
hadron strong interactions at high energies in, systematic review of, 23:46697
hadron strong interactions at very high energies in, review of, 25:5347 (CONF-700314-, Paper 13)
helicity amplitudes for $\pi + N$ interactions in, kinematic constraints on, 24:10736
helicity amplitudes in, 22:11741
helicity amplitudes in, existence of non-Regge singularities in, 22:32229
helicity properties in, s-channel, 25:33737
helicity states in, hyperplane formalism for, 23:39633
hypothesis for inclusive cross sections in, discontinuity formulas for amplitudes of multiparticle scattering for, 25:38798 (NYO-2262-TA-240)
interactions anti $N + N$ at high energies and small angles in eikonal theory in, differential cross sections and polarizations for, 24:10777 (SU-1206-211)
interactions at high energies in, multi-Regge-pole hypothesis for, 21:42471
interactions $\alpha + \alpha$ in, potential for, 25:36537
interactions $e + p$ in, scheme for photon processes for deep inelastic, 25:12148
interactions $\gamma + \gamma$ and $\gamma + p$ in, asymptotical behavior of total cross sections off mass shell for, 25:45692 (JINR-E2-5778)
interactions $\gamma + \Lambda^0 \rightarrow \Lambda^0 + \pi^0$ in, superconvergent sum rule for, 22:39325
interactions $\gamma + N \rightarrow \pi + \Delta(1236)$ with rho, A_2, and π trajectories in, differential cross sections and isobar polarization density matrix for, (T), 24:24309
interactions $\gamma + N \rightarrow \pi + N$ and $N + N$ in, Lorentz group for analysis of phenomenological, 23:44628
interactions $\gamma + N \rightarrow \pi + N$ in, 24:10718
interactions $\gamma + n \rightarrow \pi^- + p$ and $\gamma + p \rightarrow \pi^+ + n$ in, with diffractive correction, 24:1549
interactions $\gamma + p \rightarrow n + \pi^+$ at high energies in, mechanism without conspiracy for, 22:22362
interactions $\gamma + p \rightarrow p + \text{rho}^0$ and $\gamma + p \rightarrow p + \omega^0(\text{phi}^0)$ at high energies in, 22:24594
interactions $\gamma + p \rightarrow \pi^0 + p$ at 3 GeV, asymmetry in cross sections for, (E), 23:44583
interactions $\gamma + p \rightarrow \pi^+ + n$ at high energies in, 23:44657 (IS-T-291)
interactions in, covariant formalism of differential cross sections for hadron and photon, 24:49358
interactions in, kinematics of strong, 22:17933
interactions in, Monte-Carlo method for multiperipheral, 25:45750
interactions in, phenomenology of inclusive, 25:33676
interactions in, Reggeon diagram method for arbitrary number of particles in inelastic, 22:39364
interactions in, review of forward peak in inelastic, 22:39265 (CERN-68-7(Vol.1), pp 60-110)
interactions $K + N$ and $\pi + N$ in, 22:39409
interactions $K_2^0 + p \rightarrow K_1^0(K_2^0) + p$ at small angles in eikonal, differential cross sections and polarizations for, 24:13082 (SU-1206-218)
interactions $K^- + p \rightarrow K^- + \omega + p$ at 6 GeV/c in modified double Regge model, 23:30760
interactions $K^- + p \rightarrow \Sigma^+ + \pi^-$ at 4.1 and 5.5 GeV/c in hydrogen bubble chamber, differential cross sections for, (E), 22:20137 (COO-1195-116)
interactions $K^- + p \rightarrow \Xi^0(1530) + K^0$ at 1.7 to 2.87 GeV/c with Σ exchange in, 25:25436
interactions $K^+ + p$ and $K^- + p$ in, analysis of, 24:15591
interactions $K^- + p$ and $\pi^+ + p$ in multi-Regge model, mass dependence of small-angle differential cross section in, 23:39727
interactions $N + N \rightarrow N + N^*$ in, dynamics of, 23:21123 (JINR-E2-4286)
interactions $N + N$ in, O(4) symmetry for, 22:39464
interactions $\tau + p \rightarrow \mu^- + p + \pi^+$ at high energies in, model for, 24:28536
interactions of $^1/_2{}^+$ baryons with 0^- mesons at 3 GeV/c in model with broken SU(3) symmetry in, forward, 23:34602
interactions of hadrons with deuterons at high energies in, review of elastic and inelastic, (T), 24:47478 (UCRL-19851)
interactions of mesons in, review of parameters for strong, 22:32156
interactions of mesons with baryons and baryons with baryons in, additivity assumption and scaling factor for, 24:13088
interactions of nucleons with particles in, kinematic constraints, factorization, and kinematic zeros in, 22:34981 (LNF-68/5)
interactions of spinless particles in multi-Regge-exchange model, formula for overlap function for two-body elastic, 23:42584
interactions of spinless particles in, partial-wave expansion in crossed channel for Galilean-invariant amplitudes of two-body elastic, 23:39630
interactions of unequal-mass particles in, 21:19069
interactions $p + n \rightarrow n + p$ and anti $p + p \rightarrow n +$ anti n at high energies in models with branching in j-plane in, for differential cross sections of, 22:39377
interactions $p + p \rightarrow p + n + \pi^+$ at 28.5 GeV/c in double pole model in, π exchange and N(1400) production in, 22:46328
interactions $p + p \rightarrow p + p$ in, 24:20158
interactions $\pi + N \rightarrow \pi + N$ at high energies in, 23:44657 (IS-T-291)
interactions $\pi + N \rightarrow \text{rho} + N^*$ in, model for differential cross sections and decay angular correlations in, 22:24658
interactions $\pi + N$ at high energies in model in, resonance production in backward, 22:39391 (CERN-68-7(Vol.1), pp 460-70)
interactions $\pi + N$ at high energies in, analysis of, 24:5299
interactions $\pi + N$ at low and intermediate energies, N/D analysis of Regge amplitudes for, 24:15589
interactions $\pi + N$ in eikonal, small-angle, 23:15116
interactions $\pi + N$ in model in, phase contours for, 22:39395 (CERN-68-7(Vol.2), pp 55-73)
interactions $\pi + N$ in, charge-exchange, 24:20158
interactions $\pi + N$ in, generalized interference model for resonance production in, 23:32741
interactions $\pi + N$ in, sum rule for decoupling of second rho in forward, 22:26665
interactions $\pi + N$ intermediate and high energies in, dispersion sum rules for analysis of, 23:36950
interactions $\pi + N$, u-channel Regge pole contribution to cross sections for, 23:32743
interactions $\pi + p \rightarrow \Lambda(\Sigma) + \text{rho}\ (A_2) + K$ and $\pi^+ + p \rightarrow n + \pi^+ + \pi^+ + \pi^0$ at high energies in, Reggion graphs for asymptotic behavior of amplitude of, 22:22403
interactions $\pi + p \rightarrow N + n\pi$ in, multi-exchange model for, 22:22392 (INR-P-880/VI/PH)
interactions $\pi^+ + d \rightarrow p + p$ in, (T), 23:42693
interactions $\pi^+ + d \rightarrow p + p$ in, Regge pole formalism for, 22:37160 (UCRL-18252)
interactions $\pi^- + p \rightarrow \text{eta} + p$ at high energies in, 23:44657 (IS-T-291)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at 5.9 to 18.2 GeV in, 22:20135 (CEA-R-3209)
interactions $\pi^- + p \rightarrow \pi^0 + n$ at high energies in, $13/2^-$ N(2530) production in, 22:39412
interactions $\pi^+ + p \rightarrow \pi^+ + \text{rho}^0 + p$ at 13.1 GeV/c in double Regge pole model, (E/T), 24:35610 (COO-1428-207)
interactions $\pi^- + p$ and $\pi^+ + p$ at high energies in, 22:46445
interactions $\pi^- + p$ and $\pi^+ + p$ at high energies in Regge model in, sum rule for cross sections of, 22:37159
interactions $\pi^- + p$ and $\pi^+ + p$ at high energies in, dip structure in, 23:32752
interactions $\pi^- + p$ at 20 to 65 GeV/c in, fits to total cross sections for, (E/T), 24:40402
interactions $\pi^+ + p$ at 8 GeV/c, multi-Regge-exchange model for, (T), 22:37146 (INR-P-889/VI/PH)
interactions rho + p at 2 to 20 GeV in, forward $\gamma + p \rightarrow \text{rho}^0 + p$ interaction cross sections for real part of amplitude of, 25:1538
interference model for $A_1\text{rho}\pi$ system in $\pi^+ + \pi^- \rightarrow \pi^- + A_1$ interactions in, crossing-symmetric, 23:44650
kinematic constraints on Regge-pole residues, 22:11683
kinematic singularities and zeros of $\gamma + N \rightarrow$ vector mesons + N interactions in, 22:44356
lecture on, 22:7489 (UCSD-10-P-10-29)
Lorentz poles in amplitudes for arbitrary-mass scattering, analyticity in mass variable for, 23:15268
Mandelstam cuts in, properties of, 22:44504
mass differences in, cancellation of divergences in electromagnetic, (T), 24:45453
mass differences in, divergences in electromagnetic, 23:15027
mass formula for $M = 0$ and 1 Toller hadron families in, method using analyticity for, 22:47813
mass formula for $M = 0$ and $M = 1$ Toller families in, use of S-matrix theory for, 23:32837
mass formulas for daughter trajectories in, 23:23559
mass spectrum from representations of algebra of isovector charge-density in O(3,3) symmetry for, 24:1628
masses and spins in, review of, 21:31578
meson (K) electromagnetic mass difference in, finite-energy sum rules for virtual Compton-effect amplitude for, 22:39316 (JINR-E2-3853)
meson (π) conspiracy in, dynamical model for, 22:26646
meson (π) conspiracy models in, phenomenological analysis of, 25:59429
meson (π) exchange in $\pi^- + p \rightarrow$ sigma + n interactions at high energies in, nonfactorization of, 24:6727
meson (π) interactions in, rho exchange in, 22:9711
meson (π) trajectory in partial-wave expansion for $\pi^+ + p \rightarrow \text{rho}^0 + N^*$ interactions at high energies, 24:3667
meson (π) trajectory in, experimental evidence against conspiracy of, 22:37086
meson (rho) and (A_2) trajectory exchange in $\pi +$ eta $\rightarrow \pi +$ rho interactions from superconvergence sum rules, 22:7509
meson (rho) trajectory exchange in $\pi + \pi \rightarrow \pi + \omega$ interactions from superconvergence sum rules, 22:7509
meson classification in exchange-degenerate trajectories in, 23:15206
meson classification scheme in, 23:10805
meson couplings in, tensor meson dominance for helicity structure of, 25:33684 (COO-264-572)
meson photoproduction in, neutral nonstrange 0^-, 21:21169
meson production in $\gamma + N$ interactions in, 22:48347
meson production in photon reactions with deuterium, helium-3, and tritium in, neutral vector, 24:20095 (ITF-69-87)
meson trajectories in anti $N + N$ interactions in, t - u crossing symmetry in Veneziano model for, 25:1561
meson trajectories in multichannel quark model, 25:33696
meson trajectories in, relativistic quark model based on Veneziano representation for, 24:3627
meson trajectory contribution to meson—baryon and baryon—baryon interactions, 23:15115
meson—baryon charge-exchange interactions in Reggeized supermultiplet theory, 23:15140
meson—baryon scattering amplitude in, superconvergence relations for, 21:46541
meson—baryon-resonance couplings in, f/d ratios for, 24:37793
meson—nucleon interactions in, SU(2)/sub $W/^1$ group for, 21:37801 (FTI-LA-1)
model corrected by absorption for proton interactions with hadrons at high energies, 23:51930
model fits to $\pi + p$ and $K + p$ interactions at 2.74 GeV/c, 24:24249
model fits to $\pi^- + p$ and $\pi^+ + p$ interactions at 2.75 to 5.15 GeV/c, 24:24250
model for amplitude of $\pi^- + p \rightarrow \pi^0 + n$ interactions, momentum dependence in, 22:17869
model for analysis of high-energy interactions, 22:3417
model for analysis of $\pi^+ + p \rightarrow \pi^+ + \pi^0 + p$ interactions at 8 GeV/c and $\pi^- + p \rightarrow K_1^0 + K_1^0 +$ n interactions at 12 GeV/c, 21:46543
model for anti Δ and Δ production in anti $p + p \rightarrow$ anti $\Delta + \Delta \rightarrow$ anti $p + \pi^- + p + \pi^+$ interactions at high energies, 25:50124 (IS-T-480)
model for anti $p + p \rightarrow 2\pi^- + 2\pi^+$ interactions at high energies, multi-, (T), 23:3725
model for anti $p + p \rightarrow$ anti $n + n$ and $p + n \rightarrow p + n$ interactions in, singular-pole, 25:19995

model for anti p + p $\rightarrow$ Λ + anti Λ interactions in U(6, 6) symmetry, 23:34585
model for anti p + p $\rightarrow$ n + anti n charge-exchange interactions, 21:42353
model for anti p + p and p + p small-angle elastic scattering at high energies, 23:1653
model for anticornering effect in Dalitz plot for three-body production processes, double, 23:23483
model for arbitrary production processes in, resonance, 23:37028
model for associated production interactions with $K^*(890)$ and $K^*(1420)$ exchange, 22:15797
model for axial vector meson production in π + p and K + p interactions, (T), 23:5619
model for axial-vector meson production in π + N interactions, 23:5623
model for backward π^+ + p and π^- + p interactions at high energies, 21:15353
model for bounds for coupling constants in multiple production processes, 22:46545
model for charge-exchange π^- + p interactions, relation between composite model and, 22:41816
model for charged π production in γ + N interactions, 21:21165
model for cuts for two-body spinless equal-mass particle interactions, finite energy sum rules from multiple-scattering, 23:42762
model for daughter Regge trajectory in unequal-mass scattering, relativistic, 21:27459
model for differential cross sections and duality in A_2 production in π^- + p $\rightarrow$ eta + n interactions in, dipole, 25:14704
model for dispersion sum rules for π + d interactions in, two-Regge pole, 25:5391
model for double charge-exchange interactions, 22:46400
model for e + p inelastic interactions in, multi-Regge, 25:14621
model for electromagnetic mass differences, Reggeized tadpole, 21:15293
model for eta production in γ + N interactions, 22:24607
model for families in, extension of Wick—Cutkosky, 23:15282
model for fermion resonance production in π + N interactions, 21:25308
model for forward π + N $\rightarrow$ ω + N interactions at high energies in, differential and total cross sections and t dependence of density matrix elements in, 25:20008
model for hadron interactions at very high energies, 22:11645
model for hadron production in l + N interactions in, 25:14635 (NYO-4204-9)
model for helicity-flip and -nonflip amplitudes with ghost-eliminating zeros, superconvergence sum rules in, 21:44446
model for high energy scattering, 23:15060
model for high-energy elastic and charge-exchange scattering with absorbing hard core, 22:50396
model for high-energy hadron interactions, experimental evaluation of quark model and, 21:29517
model for high-energy interactions, 23:10804
model for high-energy interactions of hadrons, 23:3703 (LAL-1197)
model for high-energy interactions, crossover and polarization phenomena in, (T), 22:3310
model for high-energy interactions, relation to single-particle exchange model, 21:44457
model for high-energy π, K, and N interactions with nuclei, 21:42395
model for high-energy two-body interactions, contradiction with single-particle-exchange models, 21:17071
model for inelastic π + p and K + p interactions at 5 to 16 GeV/c, multipheral, 22:46427
model for invariant functions for N + N $\rightarrow$ N + N and gamma + N $\rightarrow$ π + N interactions, 23:51952
model for invariant functions for p + n $\rightarrow$ n + p and anti p + p $\rightarrow$ n + anti n interactions, 24:3692
model for invariant functions for π + p charge-exchange and elastic interactions, 23:51939
model for invariant functions of nucleon—nucleon and meson—nucleon scattering, 23:10832
model for isovector meson decays, crossing-symmetric, 23:32718
model for isovector nucleon form factors, 21:17076
model for K + N $\rightarrow$ $K^*(890)$ + N interactions, 24:52106
model for K + N interactions at high energies, eikonal, 23:25639
model for K + N interactions, superconvergence sum rules for, 22:13761
model for $K^*(890)$ and $K^*(1420)$ production in K^- + p interactions at 10 GeV/c, (E/T), 22:29630
model for $K^*(890)$ production in γ + p interactions, 23:15024
model for K^- + p $\rightarrow$ anti K^0 + n interactions, rho + R, 22:9594
model for K^+ + p $\rightarrow$ K^+ + ω + p and K^+ + p $\rightarrow$ K^+ + phi + p interactions at 9 GeV/c, multiperipheral, 22:50295 (UCRL-18321)
model for K^+ + p interactions above 0.7 GeV/c, 24:52100
model for large-angle p + p $\rightarrow$ p + p interactions above 10 GeV, single pole, 23:21130
model for Λ + N interactions at high energies, 24:52129
model for many-body interactions in, multiperipheral, 23:10807
model for meson production in meson interactions and decays, crossing-symmetric, 24:28546
model for multi-particle scattering amplitude, 23:34672
model for multiparticle amplitude of π^+ + p interaction, 23:15128
model for n-particle production, high-energy behavior of cross section in, 22:15859
model for n-point production amplitude for low- and high-energy identical spinless particles, crossing-symmetric, 24:13196
model for nucleon electromagnetic form factors, 22:13695
model for p + n and anti p + p charge-exchange interactions, 23:5605
model for p + p $\rightarrow$ Δ^{++} + p + π^- interactions at 6.6 GeV/c, use of double, (E), 22:24539
model for p + p $\rightarrow$ p + p + ω and p + p $\rightarrow$ Δ^{++} + π^- + p interactions, 23:36953
model for particle interactions at intermediate energies, equivalence of optical model and, 25:59421 (COO-2009-30)
model for particle spectra from p + p interactions at high energies in, velocity weight function in multi-Regge, (T), 25:7682 (NP-18551)
model for phenomenological analysis of p + p $\rightarrow$ π^+ + d interactions above 7 GeV, 24:40416
model for photoproduction interactions, kinematic constraints and factorization in, 23:25568
model for pion-exchange interactions, 22:7494
model for polarization in elastic K^- + p interactions at 2 to 2.4 GeV/c, five-Regge-pole, 23:23472
model for polarization in π^- + p $\rightarrow$ eta + n interactions, 22:9602
model for Pomeranchuk terms for anti p + p, p + p, and spinless equal-mass particle interactions in, (T), 24:37753 (LNF-69/71)
model for production amplitudes, multi-Regge exchange, 23:44731
model for production of spin-$^3/_2{}^+$ particles in meson interactions with baryons, comparison with absorption model, 23:32739
model for production processes, overlap function in multi-Regge, 23:10865
model for proton scattering by carbon-12 at 0.9 to 21.5 GeV/c, cross sections for, 22:48327
model for π + N $\rightarrow$ ω + N interactions at high energies, 23:39737
model for π + N $\rightarrow$ π + rho + N interactions, πrho mass distributions in, 22:20266
model for π + N charge-exchange interactions in, absorption, 23:10823
model for π + N charge-exchange polarization, absorptive corrections in, 22:35004
model for π + N interactions at high energies, use of sum rule in, 21:44370 (IS-1690)
model for π + N interactions below 8 GeV in, 21:40218 (NP-16952)
model for π + N interactions, phase contours in, 22:17970
model for π + p $\rightarrow$ π + N^* and K + p $\rightarrow$ K + N^* interactions, 22:32165
model for π + p charge-exchange polarization at high energies, 21:21248
model for π + p elastic interactions at high energies, one-pole, 21:33759
model for π + p interactions at 11 GeV/c, double Regge pole, 23:21102
model for π + p interactions at 6 to 12 GeV/c, 21:31593
model for π + p interactions at high energies in, 22:7513
model for π and eta photoproduction and N + N charge exchange interactions in, strong absorptive Regge-cut, 25:7597
model for π^+ + n $\rightarrow$ ω + p interactions with cuts generated by absorption, (T), 23:8812
model for π^- + p $\rightarrow$ p + π^+ + π^- + π^- at 13 and 20 GeV/c, double-pole, 24:49522
model for π^- + p $\rightarrow$ π^0 + n interactions at 2.5 to 6 GeV/c, use of resonant amplitudes in, 21:46542
model for π^- + p $\rightarrow$ π^0 + n interactions at high energies, 23:5630
model for π^- + p $\rightarrow$ π^0 + n, K^+ + n $\rightarrow$ K^0 + p interactions and 0^- meson elastic interactions with $^1/_2{}^+$ baryons in, Regge quark, 25:25450
model for π^- + p $\rightarrow$ π^+ + $2\pi^-$ + p interactions at 5 GeV/c in, multi-Regge, 25:43602
model for π^- + p charge exchange polarization, 21:21238
model for π^- + p charge-exchange interactions, differential cross sections and polarizations in, 24:13107
model for π^+ + p interactions, shadow elastic scattering from multi-Regge-exchange, 22:35012
model for π^+ and π^- production in γ + N interactions, 23:49088
model for π^+ and π^- production in γ + N interactions, four-trajectory, 23:18918
model for π-exchange trajectories in $\Delta(1238)$ production interactions, 22:26657
model for πp, pp, and anti pp scattering, 22:15779
model for Q^2 dependence of structure functions for inelastic e + p interactions in, scale invariance breaking in, 25:17422 (SU-1206-236)
model for quasi-three-body state production in π^- + p $\rightarrow$ π^+ + $2\pi^-$ + p interactions in, double Regge-pole, (E/T), 24:32969
model for quasipotential diffraction in strong interactions at high energies in, 25:53150
model for resonance decay distributions in hadron interactions, 24:52054
model for resonance production and photoproduction interactions, 24:10707
model for resonance production in π^+ + p and K^- + p interactions, multiperipheral, 23:18902
model for resonances in K + N and π + N interactions at high energies, 22:39407(T) (UCRL-Trans-1364)
model for rho and N^* decay angular correlations from π + N $\rightarrow$ rho + N^* interactions, 22:24661
model for rho exchange in π + N $\rightarrow$ ω + N and π + N $\rightarrow$ ω + Δ interactions, 24:3671
model for rho^0(ω^0) + Δ^{++} production in π^+ + p $\rightarrow$ rho^0(ω^0) + Δ^{++} interactions, π—B exchange degenerate, (T), 24:45536
model for rho$^-$ decay angular distribution and production in π^- + p $\rightarrow$ rho$^-$ + p interactions, 21:21241
model for scattering at high energies including effects of diffraction dissociation, (T), 23:8854
model for secondary contributions to forward π^- + p $\rightarrow$ π^0 + n interactions, 22:39421
model for secondary maxima in π + N and N + N interactions, 21:44380
model for spin density matrices and cross sections for γ + p $\rightarrow$ p + V (V = rho^0, ω, and phi) interactions, 23:5562
model for spin dependence of total cross sections for forward elastic scattering at high energies, 21:35350
model for strange particle production in high-energy interactions, multi-Regge, 23:27793
model for strong interactions, review of multi-Regge pole exchange, 24:40353
model for three-particle Regge trajectory, 21:25282
model for two- and three-body π + p interactions, 24:8661
model for two-particle interactions, 22:48373
model for unequal-mass scattering, analogy between Regge trajectories in potential and, 21:19077
model for vector meson coherent production in photon reactions with light nuclei in, 24:42915
model for vector meson production, 23:13102
model for vector meson production in γ + p interactions, 22:37109
model for vector meson production in pseudoscalar meson interactions with baryons, SU(6)/sub W/ in double-pole, 22:3436
model in local infinite-component quantum field theory, Van Hove, 25:12246
model in SU(3) for superconvergence sum rules for γ + N $\rightarrow$ π + N interactions, 21:44321
model in, compatibility with quark model, 21:40155
model in, generalized interference crossing-symmetric, 24:18302
model of A_2 exchange with Veneziano-type residue functions for π^+ + n $\rightarrow$ eta + p interactions at 1.1 to 2.4 GeV/c, (E/T), 24:1523
model of double Regge poles for p + p $\rightarrow$ p + p + ω^0 interactions, 22:15814
model of double-Regge exchange for analysis of π^+ + p $\rightarrow$ π^+ + rho^0 + p interactions at 13.1 GeV/c, 24:49327
model of infinite Regge recurrences for high-momentum transfer inelastic π + p interactions, 22:24650
model of multiple, for analysis of π + N and K + N interactions at 6 to 18 GeV/c, 22:50399
model of odd- and even-signature trajectories for two-body forward interactions, (T), 24:40356
model of photon—hadron interactions, crossing matrix for helicity amplitudes in, 21:37751
model of π^+ charge form factor, second rho trajectory in, 23:8783
model of Reggeization, spin-density matrix elements for testing Feynman-diagram, 24:8654
model of rho + R trajectories for $\Delta^{++}(1236)$ production in π^+ + p and K^+ + p interactions, 24:3672
model of rho + rho' trajectories for π + N charge-exchange interactions and polarization, 22:37157
model of single rho exchange for π^- + p $\rightarrow$ π^0 + n interactions at high energies, 22:50393
model of U(6) x U(6) symmetry for particle classification, 22:46395
model of vector meson production, unequal-mass kinematics for, 22:5566
model predictions for anti p + p $\rightarrow$ $2\pi^+$ + $2\pi^-$ interactions at 1.2 to 5.7 GeV/c, multi-Regge, 24:49479
model with absorptive corrections for γ + p $\rightarrow$ π^0 + p interactions at 3 to 16 GeV, 23:46647
model with absorptive corrections for π^- + p $\rightarrow$ π^0 + n and π^+ + p $\rightarrow$ π^0 + $\Delta^{++}(1236)$ interactions, 22:44443
model with absorptive corrections for π^+ + p and π^- + p interactions, 24:8660
model with baryon exchange for anti NN annihilation into two pseudoscalar mesons, 21:46533
model with crossing symmetry for π + π interactions, 24:3644
model with diffractive correction for analysis of γ + p $\rightarrow$ π^0 + p interactions, 24:47409
model with diffractive correction for p + n and anti p + p charge-exchange interactions, 24:18224
model with direct-channel resonances for π + N interactions, 22:20232
model with duality and Regge asymptotic behavior for meson (π) electromagnetic form factor from π + π interactions in, 24:12987
model with duality for π^+ + p $\rightarrow$ π^+ + f^0 + p interactions at 13.1 GeV/c, double-Regge, 25:1525 (COO-1428-237)
model with exchange degeneracy for charge- and hypercharge-exchange interactions, double-octet, 21:15355
model with fixed branch point for π + N diffraction scattering, 23:49165
model with four poles for π^- + p $\rightarrow$ π^0 (eta) + n, K^- + p $\rightarrow$ anti K^0 + n, and K^+ + n $\rightarrow$ K^0 + p interactions in, 25:5371 (CEA-N-1373)
model with interference of t- and u-channel amplitudes for π + N interactions in, 24:49530
model with isotopic spin symmetry for hadron interactions at high energies in, group theoretical, 25:28055
model with L—S coupling for pseudoscalar-meson—nucleon interactions, 22:20253
model with L—S coupling for π + N interactions, 22:20264
model with M = 1 pion for π^+ + p $\rightarrow$ rho^0 + Δ^{++} and π^+ + p $\rightarrow$ rho$^+$ + p interactions, 23:5635
model with rho and rho' trajectories for π + N charge-exchange interactions, 24:13114
model with single pole for π^- + p $\rightarrow$ π^0 + n interactions at high energies, 21:42383

model with SU(3) symmetry and exchange degeneracy for hadron interactions with nucleons in, pole—cut, 25:12217
model with SU(3) symmetry for high-energy photoproduction branching ratios, 21:42311
model with Veneziano residues for $0^- + {}^1/_2{}^+ \rightarrow 0^- + {}^3/_2{}^+$ interactions in, 25:3384 (TPJU-3/70)
model with Veneziano residues for $\pi^+ + p$, $\pi^- + p$, and $K^+ + p$ interactions, 24:52110
models for amplitudes and cross sections for forward scattering, asymptotic projections of, 22:29767
models for backward meson interactions with baryons in, pole and absorptive cut, 25:25423
models for dip structure mechanism for $\pi + N$ and $\gamma + N$ interactionns, (T), 24:35662
models for duality and exchange degeneracy in strong interactions at low and high energies, review of, 25:53134
models for $\gamma + N \rightarrow \pi^+(\pi^-) + N$ interactions in, finite-energy sum rules for test of pure and absorptive, 24:49372 (SINP-TH-69-8)
models for hadron strong interactions, review of, 24:20141
models for K + N interactions at high energies, 23:21108
models for multiple production processes, multi-Regge, 23:46686
models for polarization in $K^+ + p$ elastic interactions at 3.75 to 4.40 GeV/c, (E/T), 23:36844
models for $\pi + N \rightarrow \text{rho} + N$ interactions at high energies in, vector dominance and current conservation for t-channel helicity relations in, 24:35659
models for $\pi + N$ interactions at high energies, review of, 25:25425
models for $\pi + p$ quasi-two-body interactions, 24:15596
models for $\pi^- + p \rightarrow \text{rho}^- + p$ interactions at 8 GeV/c in, vector dominance and current conservation for t-channel helicity relations in, 24:35659
models for strong interactions at high energies in, review of, 25:40978
models in, $\pi + N$, anti $K + N$, and $\gamma + p$ interactions at high energies for tests of, 25:12206
models in, review of, 24:28639
models in, review of group theory for construction of Regge and multi-Regge, 24:10859
models of asymptotic behavior of amplitudes for hadrons interactions, 25:3357
models of Regge and multi-Regge couplings, Feynman-diagram, 22:26726
models with conspiracy and cuts for anti $p + p \rightarrow$ anti $n + n$ and $p + n \rightarrow p + n$ differential cross sections, 24:13118 (ITF-69-69)
models with fixed pole and shielding cut for $\pi + p$ and $p + p$ diffraction interactions in, 25:41000 (COO-264-576)
models with fixed pole and shielding cut for scaling relation among amplitudes of $\pi + \pi \rightarrow \pi + \pi$, $\pi + p \rightarrow \pi + p$, and $p + p \rightarrow p + p$ interactions in, 25:41000 (COO-264-576)
modified multi-Regge model for one-particle momentum distributions and invariant-mass distributions for, (E/T), 24:3521 (DESY-69/37)
momenta method with branching in j-plane for differential cross sections of $p + n \rightarrow n + p$ and anti $p + p \rightarrow$ anti $n + n$ interactions in, complex, 25:20017(T) (CERN-Trans-70-15)
multi-Regge bootstrap model, 25:25404
multi-Regge model at nonzero t, 24:26484
multi-Regge model for bootstrap calculations, Bethe—Salpeter method for, 24:18276
multi-Regge model for hadron inelastic interactions, review of, 24:5284
multi-Regge model for inelastic $e + p$ interactions, 24:13006
multi-Regge model for multiproduction in stong interactions at high energies in, review of, 25:17470
multi-Regge model for production processes, 24:24450
multi-Regge model for $\pi^+ + p \rightarrow \pi^+ + p + \pi^0$ interactions, finite energy sum rules from, 24:8664
multi-Regge model for strong interactions, lectures on multiperipheral dynamics in, 25:47823
multi-Regge model for velocity weight function of thermodynamical model for secondary particle momentum spectra in $p + p$ interactions at 10 to 30 GeV/c, 24:37812
multi-Regge model from Feynman diagrams for general production processes, 24:18272
multi-Regge model, method for testing Toller angle dependence in, 24:37959
multi-Regge-peripheral model for missing-mass spectrum, 24:40405
multiperipheral amplitude for bremsstrahlung production in Coulomb field, 25:14613
multiperipheral bootstrap and dual-resonance models from, for strong interactions, 23:49119
multiperipheral bootstrap in, properties of, 25:9757
multiperipheral exchange model for strange particle production in $K^- + p$ interactions at 10 GeV/c, (E/T), 23:36837
multiperipheral matrix element compatibility with s-channel helicity conservation in $p + p \rightarrow p + n + \pi^+$ interactions in, 25:22855
multiperipheral model for anti $p + p \rightarrow m\pi$ interactions, 23:34591
multiperipheral model for complex poles in, 25:33855
multiperipheral model for contribution of multiparticle intermediate states to unitarity condition for scattering amplitudes, 24:5353
multiperipheral model for diffraction dissociation and exchange processes in many-body strong interactions, 24:49441
multiperipheral model for hadron interactions in, 25:30764
multiperipheral model for n-particle production amplitudes, 23:44728
multiperipheral model for $p + p \rightarrow p + p + \pi^+ + \pi^+ + \pi^- + \pi^-$ interactions at 28 GeV/c, (E/T), 24:3701
multiperipheral model for $\pi^- + p \rightarrow N + (n\text{-}1)\, \pi$ ($n = 3$ to 7) interactions at 11 GeV/c, 24:15592
multiperipheral nonfactorization, signature, and Toller-angle variable cuts in, 25:20109
multiplicity distributions in inclusive interactions in, 25:45730
multiquark trajectories in relativistic quark model, Veneziano representations for, 24:37741
N^* resonances from rho Regge exchange in charge-exchange $\pi + N$ interactions, 22:20256
N/D calculations for inelastic scattering in, Reggeized, 25:7669
N/D equations in, inelastic, 23:17007
N/D equations with Regge-pole inelasticity for partial-wave calculations of neutral spinless particle interactions, 24:15502
N-Reggeon vertex in, gauge-invariant, 25:14801
nucleon interactions in, moving branch points in angular momentum plane for two-body inelastic, 21:42388
nucleon resonances in, review of, 21:42365
nucleon trajectory degeneracy in backward $\gamma + p \rightarrow \pi^0 (\pi^+) + p\ (n)$ interactions, 23:49090
nucleon—nucleon forward scattering amplitudes in, contribution of cuts to asymptotic behavior of, 21:37843
ω-exchange contribution to $\pi + p$ interactions, 22:7515
P' trajectory in, identification of $f^0(1260)$ as first particle on, 23:46840
P' trajectory of rho using finite-energy sum rules, bootstrap of, 23:25614
parameters for charge-exchange $\pi + N$ interactions from modified finite-energy sum rules, 23:34605
parameters for forward Compton $\gamma + p \rightarrow \gamma + p$ amplitudes in, continuous-moment sum rules for, 24:24268
parameters for high-energy scattering amplitude, lower bound from, 22:50477
parameters for $K + N$ and $\pi + N$ interactions, continuous moment sum rules for, 24:1590
parameters for $K + N$ interactions, use of continuous moment sum rules for analysis of, 22:48321
parameters for pseudoscalar meson interactions, comparison of bootstrap constraints from phase contour methods with, 24:8634
parameters for $\pi + N$ and $K + N$, sum rules for vacuum, 23:49157
parameters for $\pi + N$ interactions, determination of, 22:32132
parameters for $\pi + N$ interactions, use of continuous sum rules for determination of, 22:34998
parameters for $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}(1238)$ interactions, 21:40226
parameters from continuous-moment sum rules, 24:18295
parameters from dispersion sum rules for $\pi + N$ interactions, constraints on, 23:27802 (NP-17887)
parameters in threshold expansions and Cheng—Sharp equation for unitarity constraints on, 24:13209
parameters in, existence and uniqueness of solution for system of equations for, 24:45616
parity exchange in, review of, 21:31578
partial-wave projection of cross-channel amplitudes in, use in bootstrap theory, 22:44430
particle exchange in two-body hadron interactions at high energies in, review of, 24:5286
particle interactions at high energies in, 25:45738
particle interactions with vector and scalar currents in, universal, 21:42462
particle production in, total cross sections for multiple, 22:41798
particles with identical quantum numbers in, Reggeization of, 21:40199
parton—duality model for structure functions for deep inelastic $e + p$ interactions in, 25:17441
phase contours for $\pi + N$ interactions in model in, 22:7506 (UCRL-17921)
phase shift in, S-matrix theory for, 23:8862
photoproduction in, 24:20158
photoproduction in $\gamma + p$ interactions at high energies in, 25:22728
photoproduction of π^+ and K^+ in, high-energy, 22:17904
polarization rotation in $\pi^- + p$ and $\pi^+ + p$ interactions at high energies in, intermediate-energy region contribution in dispersion sum rules for, 24:33017 (IFVE-STF-69-43)
pole absorption theory for dip structure mechanism in $\pi + N$ and $\gamma + N$ interactions and for π^0 production ratio in $\gamma + n \rightarrow \pi^0 + n$ and $\gamma + p \rightarrow \pi^0 + p$ interactions, 25:53185
pole amplitudes in, circles in Argand diagrams from partial-wave projections of, 22:32147
pole and cut model with SU(3) symmetry and exchange degeneracy for differential cross sections for $\pi^+ + p \rightarrow \pi^0(\text{eta}^0) + \Delta^{++}$ and $K^+ + p \rightarrow K^0 + \Delta^{++}$ interactions in, 25:25422
pole and cut models for target asymmetry in $\gamma + N \rightarrow \pi + N$ interactions, 25:47775 (DESY-71/27)
pole classification in SL(2C) for unequal-mass scattering, theorem for, 23:39854
pole collisions with associated cuts in, class of models for, 24:37957
pole contribution to $(K^+ - K^0)$ mass difference in, A_1, 25:36496
pole contributions to Lorentz pole for scattering amplitude expansion at vanishing four-momentum transfer, 22:15794
pole coupling for hadron electromagnetic mass differences, finite-energy sum rules for A_1, 24:5267 (NP-18074)
pole degeneracy in total cross sections of hadron interactions, 22:24624
pole dominance in amplitudes of baryon interactions with mesons in, 24:42977
pole dominance in elastic and quasi-elastic meson interactions with nucleons, test of single, 23:39725
pole dominance model for superconvergence sum rule for $\pi + N$ interactions, 22:41815
pole duality for interactions of spinless equal-mass particles in, 24:40499
pole effect on contribution of $\pi + \pi \rightarrow N +$ anti N and anti $N + N \rightarrow \pi + \pi$ amplitude to nucleon electromagnetic form factors, 24:13061
pole effects in $\omega^0\Delta^{++}$ production in $\pi^+ + p \rightarrow p + 2\pi^+ + \pi^- + \pi^0$ interactions at 3.7 GeV/c in hydrogen bubble chamber, (E), 24:45441
pole effects in $\text{rho}^0\Delta^{++}$ production in $\pi^+ + p \rightarrow p + 2\pi^+ + \pi^-$ interactions at 3.7 GeV/c in hydrogen bubble chamber, (E), 24:45441
pole eikonal model for amplitude and differential cross sections for $\pi^+ + n \rightarrow \Delta^{++} + \pi^-$ interactions in, 25:14715
pole exchange for branch points in angular momentum plane, 22:3552
pole exchange for $\Delta^{++}(1236)$ polarization in $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$ interactions, O(3,1) formalism for rho' and rho, 24:26438
pole exchange for scattering amplitude, interpolation formula for, 24:32999
pole exchange in $K + N$ interactions, finite-energy sum rules for ω-like, 23:49167
pole exchange in $K + N$ interactions, ω-like, 24:52086 (AD-705553)
pole exchange in model with absorptive corrections for $\pi^+ + p \rightarrow \pi^0 + \Delta^{++}$ and $\pi^- + p \rightarrow \pi^0 + N$ interactions, 22:15787 (DESY-68/1)
pole exchange in $p + p \rightarrow p + p$, $\pi + p \rightarrow \pi + p$, and $n + p \rightarrow n + p$ interactions, cut corrections to, 24:18230
pole exchange in $\pi + p$ and $K + p$ inelastic interactions, 22:17956
pole exchange in strong interactions, multiple scattering corrections to, 25:17472
pole exchange model for backward interactions at high energies in, review of, 25:30836
pole exchanges in continuous-moment sum rules for $\pi + \pi$ interactions, 25:43636
pole exchanges in high-energy scattering, absorptive corrections to, 23:19019
pole exchanges in $\pi + N$ interactions, Argand loop from partial-wave projection of, 24:37790
pole exchanges in, resonance interpretation of Argand loops from, 23:27892
pole expansion at mass zero, Pomeranchuk singularity in, 22:13863 (LPTHE-TH-228)
pole factorization in quark model, 21:42461
pole families in equal-mass Wick—Cutkosky model, general properties of, 22:48294
pole fits to charge exchange, differential cross sections, and polarization in $\pi^- + p$ interactions at high energies in, (E/T), 25:12217
pole interactions with Pomeranchuk pole in, boson, 24:52057
pole parameterization for polarization and spin-rotation predictions for $\pi^- + p$ interactions at 2 to 6 GeV/c, 23:42673
pole parameters for forward $\pi + N$ interactions at high energies, P and P', 22:32163
pole parameters for $\pi + N$ interactions at high energies, determination of P and P', 22:35002
pole parameters for $\pi + p$ scattering from superconvergent form of inverse dispersion relations, P and P', 22:34989
pole parameters for $\pi^- + p$ and $\pi^+ + p$ interactions at high energies, negative P', (E/T), 24:45539
pole parameters from $\pi + N$ interactions at low energies, sum rules for rho-Regge, 21:37807
pole parameters from sum rules for $\pi + N$ elastic interactions, P and P', 22:41811
pole residues in t and u channels, relation between Veneziano-type formula and symmetry of, 24:37970
pole residues near $\alpha = 0$ in presence of fixed pole effects in $\pi + p$ and $\gamma + p$ interactions, (T), 24:26442
pole singularities in angular momentum plane in, Fubini—Dashen—Gell-Mann sum rule relation with, 24:10727
pole structure of Bethe—Salpeter amplitude for scalar particle scattering, complex angular momentum analysis of, 25:14833
pole terms for unequal-mass particles, cancellation of singularities of, 23:39851
pole—cut model for forward differential and total cross sections for $\pi + N$ interactions at 10 to 65 GeV in, 25:41012
pole—cut relations with crossing trajectories in, 24:45607
pole—cut relations with crossing trajectories in, 24:37930 (COO-264-545)
pole-cut model for cross sections of $\pi + N \rightarrow \pi + N$ interactions at 10 to 65 GeV, 24:49487 (COO-264-555)
pole-cut model in, differential cross sections of $\gamma + N \rightarrow \pi^+(\pi^-) + N$ interactions for tests of, 25:22740
pole-cut model with SU(3) and exchange degeneracy, 25:14660
pole-exchange model for peripheral three-body final-state interactions, double-, 23:25659
poles and cuts for finite-energy sum rules for $\gamma + N \rightarrow \pi^+ (\pi^-) + N$ interactions in, 23:30738
poles and cuts for phenomenological analysis of strong interactions in, 25:1483 (CONF-691202-, Paper 2)
poles and cuts for Pomeranchuk theorem for total cross sections of strong interactions at 25 to 65 GeV/c in, 24:12942
poles and cuts from Feynman diagrams in, 23:10797 (UCSD-10-P-10-47)
poles and cuts in complex angular momentum plane, 25:41077
poles and cuts in π^0, eta, and X production in $\gamma + N$ interactions in, differential cross sections, angular-distribution asymmetries, and recoil nucleon polarization with, 24:28503 (ITF-70-10)

poles and cuts in simple factorizable multi-Regge model, 23:39845
poles and cuts in, quark diagrams for, 25:47846 (COO-2009-28)
poles and dip mechanism for s-channel helicity conservation in $\pi + N$ and $\gamma + N$ Compton interactions in, 24:49520
poles and oscillatory average multiplicity in particle interactions, multiperipheral models for complex, 25:14585
poles and residues at zero energy in, partial-wave amplitudes in Born approximation for, 23:30833
poles and residues for scattering amplitudes in, zero-energy behavior of, 22:37200 (IC-68/31)
poles arising from analytic continuation in spin of S-matrix elements, theories of arbitrary-spin particles for, 22:5527
poles for bound states of nonrelativistic scattering systems, 25:45825
poles for Coulomb potential from dynamical SO(4,2) representations, 24:18248
poles for damped oscillations in total cross sections of strong interactions at high energies, multiperipheral model for complex, 24:13043
poles for hadron processes in, conspiracy from fixed, 24:30495
poles for large coupling constants for $p + p$ forward interactions at high energies, 25:53036 (DESY-71/31)
poles for large coupling constants for particle forward interactions at high energies, 25:53036 (DESY-71/31)
poles for large coupling constants for scattering in potential Coulomb fields, 25:41109 (DESY-71/17)
poles for large coupling constants in attractive Yukawa potential scattering, 25:41109 (DESY-71/17)
poles for oscillatory average multiplicity in multiperipheral models for high-energy total cross sections, complex, 25:12122 (NYO-2262-TA-228)
poles for potential scattering, computer program for calculating, 24:5352
poles for scattering amplitudes in, Dirichlet series for superposition of infinite number of, 24:52209 (CNRS-CPT-70-P-330)
poles for strong interactions in, phenomenology of double, 25:1489
poles in analysis of $K^- + p \to$ anti $K^0 + n$ interactions at high energies, R and rho, 21:46538
poles in anti $N + N \to$ anti $N + N$ and anti $N + N \to \pi + \pi$ interactions in, 21:42421 (UCRL-17738)
poles in backward $\gamma + N \to \pi + N$ interactions at high energies, fixed, 23:15044
poles in complex plane of high-energy scattering in, model unitarity dynamical scheme for resonance, 25:1639 (AD-705548)
poles in cut j plane for charge exchange $\pi + N$ interactions, complex, 25:3402
poles in direct-channel strong-interaction amplitudes, 24:35687
poles in formalism for forward meson interactions with nucleons in, 25:12217
poles in hadron strong interactions at high energies, review of, 24:18158
poles in hyperon—antinucleon channel, zero-energy properties of strange-meson, 23:10812
poles in impact parameter plane in, 23:39855
poles in J-plane for electromagnetic and weak interactions, review of, 25:1466 (CONF-691202-, Paper 5)
poles in $K + N \to K + N$ interactions, continuous moment sum rules for A_2-type, 24:1612
poles in meson—nucleon and nucleon—nucleon interactions at high energies in, formulas with multiple rescatterings of arbitrary, 24:52097
poles in model for differential cross sections and polarization in $\gamma + p \to \pi^+ + n$ interactions in, fixed, 24:49404
poles in model for, experimental data for, 22:13864
poles in $\omega + \pi \to \pi + \pi$ scattering amplitudes, third double-spectral function effects in, 22:24644
poles in particle scattering by Coulomb field, 22:41772 (JINR-P2-3866)
poles in proton interactions with hadrons, rho(ω) exchange in duality for complex conjugate pair of, (T), 24:42940
poles in $\pi + N$ amplitudes at high energies, non-Regge behavior of, 24:21989
poles in $\pi + N$ backward interactions at high energies, 22:24675
poles in $\pi + N$ interactions at high energies, field-theoretic calculation of, 24:5293 (NYO-2262-TA-207)
poles in $\pi + \pi$ interactions, bootstrap with finite-energy sum rules for, 22:20237
poles in $\pi^- + p \to \pi^0 + n$, $\pi^- + p \to \pi^- + p$ and $\pi^+ + p \to \pi^+ + p$ interactions at high energies, 22:13750 (CALT-68-145)
poles in $\pi^+ + \pi^- \to \pi^+ + \pi^-$ interactions, Veneziano amplitude with Lorentz, 23:39701
poles in resonance production in $\pi^+ + p \to 2\pi^+ + \pi^- + p$ interactions at 13.1 GeV/c in hydrogen bubble chamber, double, (E), 24:37643 (COO-1428-218)
poles in scattering in Coulomb field, 23:27883
poles in single-particle production spectrum from high-energy interactions in, triple asymptotic limit for, 25:19926 (NYO-2262-TA-234)
poles in Veneziano representation in, duality and analyticity for, 25:14829
poles in, Dirichlet series for superposition of infinite number of, 25:14828
poles in, factorization of Regge and Toller, 22:5671
poles in, multiperipheral relation with, 24:18293 (UCRL-19437)
poles in, unitary representation of O(3,1) for daughter, 22:17998
poles induced in O(3,1) expansions for scattering amplitudes, 24:8739
poles with absorption in $K + N$, $N + N$, and $\pi + p$ interactions at high energies, 24:18151 (CONF-690330-, pp 166-80)
Pomeranchon and Regge exchange from duality diagrams in three-triplet model, group-theory classification of, 23:42645
Pomeranchon exchange in elastic $p + p$ interactions, 23:42692
Pomeranchon exchange in $p + p \to p + p$ interactions at high energies, 23:39746 (LNF-69/30)
Pomeranchon for forward elastic Compton interactions, model for, 23:51883 (UCRL-19220)
Pomeranchon for structure of angular momentum singularities, 22:22465
Pomeranchon in multiperipheral model, partial bootstrap of, 25:14824
Pomeranchon intercept in, modified continuous-moment sum rule for, 24:13186
Pomeranchon slope for $\pi + \pi$ elastic amplitude, 22:1515
Pomeranchon SU(3) assignment for $K + N$ and $\pi + N$ interaction total cross sections, (T), 22:24653
Pomeranchon trajectory in, model for, 22:44402 (SLAC-PUB-463)
Pomeranchon vertex for diffractive dissociation processes, multiple, 25:33858
Pomeranchuk and rho trajectories in $\pi + \pi$ interactions in unitarized strip approximation, bootstrap of, 23:42779
Pomeranchuk behavior of Veneziano amplitude of $\pi + \pi \to \pi + \pi$ interactions, 24:40366
Pomeranchuk contribution to total cross sections for $K^- + N$, anti $p + N$, and $\pi + N$ interactions in, 24:13098
Pomeranchuk cut in, bootstrap of, 23:49193
Pomeranchuk decoupling from ordinary trajectories for strong interactions and photoproduction in, 25:5348 (COO-264-562)
Pomeranchuk exchange dominance in multipion production, test of, 23:23480
Pomeranchuk exchange in boson resonance production from $K^+ + p$ interactions, 21:46540
Pomeranchuk exchange in elastic and diffraction-dissociation interactions, K-matrix model for, 24:40286
Pomeranchuk exchange in multi-Reggeon model for contributions to cross sections for two-particle scattering, 22:44522
Pomeranchuk exchange in, unitarity violation in, 22:26589
Pomeranchuk exchanges in $\pi^+ + p \to \pi^+ + \pi^- + \Delta^{++}$ interactions at 13.1 GeV/c in hydrogen bubble chamber, double pole analysis of, 24:37642 (COO-1428-217)
Pomeranchuk intercept in $\pi + \pi$ interactions in, shift due to electromagnetism in, 22:32134
Pomeranchuk parameters for $p + p$ and anti $p + p$ total and differential cross sections, 24:15608
Pomeranchuk pole analysis of diffraction scattering amplitudes at superhigh energies, quasistable, (T), 23:15250
Pomeranchuk pole and related branch points at small momentum transfers, 23:10866
Pomeranchuk pole and tensor Reggeons in neutral vector meson photoproduction at high energies, 24:20117
Pomeranchuk pole dependence on momentum squared and amplitudes in quark model for hadron interactions with hadrons at high energies and low momentum squared, 23:49120
Pomeranchuk pole exchange in inelastic processes at high energies, 23:27823
Pomeranchuk pole exchange in three-body hadron production in strong interactions, graphs for isotopic relations for, 25:30824 (JINR-P2-5630)
Pomeranchuk pole for differential cross section for elastic $p + p$ interactions at 90°, 22:35024
Pomeranchuk pole in $\pi + N$ B^+ amplitude, sum rule for residue of, 21:37817
Pomeranchuk pole in $\pi^- + p \to A_1^- + p$ interactions, sign of final-state proton polarization for distinction between rescattering and absorptive corrections to, 23:51945
Pomeranchuk pole in $\pi^- + p$ and $\pi^+ + p$ interaction total cross sections and phase of forward amplitude, rescattering and absorptive corrections to, 23:51945
Pomeranchuk pole in strong interactions in, vacuum pole from asymptotic behavior of $e + e$, $\gamma + e$, and $\gamma + \gamma$ amplitudes in main logarithmic approximation for existence of, 24:18121
Pomeranchuk pole in, dynamic equation for, 23:37017
Pomeranchuk pole problem in, strong coupling in, 23:5691
Pomeranchuk pole—cut relationship in, model for, 23:37027
Pomeranchuk singularity coupling to Regge recurrences, constraints from unitarity and infinitely rising trajectories for, 24:37867
Pomeranchuk singularity for diffraction scattering, properties of, 24:45503
Pomeranchuk singularity from integral over Veneziano amplitude for two-long inelastic scattering, 23:52014
Pomeranchuk singularity from unitarization of Veneziano model for $\pi^+ + \pi^-$ interactions, 23:51926
Pomeranchuk singularity in duality hypothesis for amplitudes of strong interactions in, review of, 25:7634
Pomeranchuk singularity in finite-energy sum rule calculations of meson—baryon interactions in duality framework, 24:13109
Pomeranchuk singularity in two-Reggeon production in spinless stable particle two-body interactions at high energies in, bootstrap calculation for properties of, 23:51915
Pomeranchuk singularity in, colliding pole and branch point as model for self-consistent, 25:36588
Pomeranchuk singularity in, consequences of duality and unitarity for, 24:20148
Pomeranchuk singularity in, diffraction scattering from self-reproducing bootstrap model for, 24:52229
Pomeranchuk singularity in, diffractive duality principle for, 23:42759
Pomeranchuk singularity in, factorizability of, 23:1716
Pomeranchuk singularity properties from two-particle distributions of strong interactions at high energies, 25:40970
Pomeranchuk term for two-body elastic scattering in, 23:17010
Pomeranchuk term in dual quark model for strong interactions in, 24:37738 (COO-264-547)
Pomeranchuk term in dual quark model in, 24:40504
Pomeranchuk terms in resonance model for scalar-boson elastic interactions, (T), 24:47524
Pomeranchuk theorem and expansions for total cross sections of meson—nucleon interactions in, 24:18193
Pomeranchuk theorem breakdown and behavior of leading J-plane singularity for scalar particle and antiparticle interactions with scalar targets in, 25:7578
Pomeranchuk theorem breakdowns in total cross sections of strong interactions, odd-signature trajectories for, 24:47426
Pomeranchuk theorem compatibility with quark model, 24:13032
Pomeranchuk theorem for cross section relations for strong interactions, modified, 24:40354
Pomeranchuk theorem for hadron interactions above 20,000 GeV, validity of, 24:5308
Pomeranchuk theorem for high-energy scattering in, breaking of, 24:30593
Pomeranchuk theorem for indefinitely oscillating behavior of cross sections for particle—particle and particle—antiparticle interactions at high energies, 24:52235
Pomeranchuk theorem for interactions of particles and antiparticles in, 24:45451
Pomeranchuk theorem for $N + d$ interactions in, modification of Glauber formula for violation of, 25:1566
Pomeranchuk theorem for particle interactions with antiparticles and particles at high energies, 25:1430 (IFVE-STF-69-110)
Pomeranchuk theorem for phase of forward scattering amplitude, modified, 24:52227
Pomeranchuk theorem for Pomeranchuk—Okun rule for $\pi + N$ and $\pi + \pi$ interactions, 24:26441
Pomeranchuk theorem for relations among total cross sections for $\pi + \pi$ interactions, modified, 25:40981
Pomeranchuk theorem for total cross sections of strong interactions at 25 to 65 GeV/c in, poles and cuts for, 24:12942
Pomeranchuk theorem in strong interactions at high energies, analyticity constraints for validity of, 25:53136
Pomeranchuk theorem in, bounds on phase of forward scattering amplitudes for, 24:26517
Pomeranchuk theorem in, finite-energy sum rules test for violation of, 24:47458
Pomeranchuk theorem in, Pomeranchuk—Okun rule for phases of $\pi + p \to \pi + N$ interactions at high energies for validity of, 24:40396
Pomeranchuk theorem in, proof of, 23:7182
Pomeranchuk theorem in, proof of, 23:15246 (ITF-68-30)
Pomeranchuk theorem in, strong interactions for validity of, (E/T), 24:49452
Pomeranchuk theorem in, violation of, 25:30826
Pomeranchuk theorem violation at infinite energy, consequences of, 24:24339
Pomeranchuk theorem violation in asymptotic total cross section difference in $K^- + n$ and $K^+ + n$ interactions in, integrated cross sections for $K_2^0 + p \to K_1^0 + p$ interactions for, 25:22818
Pomeranchuk theorem violation in dispersion relations for amplitudes of $K^+ + N$ and $K^- + N$ forward interactions at 0.9 to 60 GeV/c and $K^+ + N$ and $K^- + N$ charge exchange interactions in, 25:38749
Pomeranchuk theorem violation in $\pi + \pi$, $\pi + K$, and $K + K$ interactions in, Kronecker-delta singularities in amplitudes of, 25:22791
Pomeranchuk theorem violation in Regge analysis of asymptotically unequal total cross sections for $K^- + p$ and $K^+ + p$ interactions, 24:13100
Pomeranchuk theorem violation in total cross sections of $\pi^+ + N$ and $\pi^- + N$ interactions above 7.38 GeV/c, (E/T), 24:49496
Pomeranchuk theorem violation in, complex negative-signature trajectories for amplitudes with, 25:31012 (COO-264-571)
Pomeranchuk theorem violation predictions for $\pi^- + p$ and $\pi^+ + p$ interactions at low energies, 25:20005
Pomeranchuk theorem violation relation with isospin dependence of total cross sections at high energies in quark model, 25:12218
Pomeranchuk theorem violation relation with isospin dependence of total cross sections of meson interactions with baryons at high energies, quark model for, 25:7624 (UCR-34-P-107-113)
Pomeranchuk theorems for averaged scattering amplitude in, 24:37931 (ITF-70-17)
Pomeranchuk theorems for cross sections and polarization in arbitrary-spin particles two-body strong interactions at high energies, 23:44644
Pomeranchuk trajectories and theorem for differential cross sections for particle interactions with particles and antiparticles in, (T), 24:45505
Pomeranchuk trajectories for $\pi + N$ and $K + N$ interactions, 24:37797
Pomeranchuk trajectories in models for diffraction scattering, complex, 24:28620
Pomeranchuk trajectories in, complex conjugate, 25:33871
Pomeranchuk trajectories in, models for diffraction scattering with, 24:22014 (COO-264-542)
Pomeranchuk trajectory as moving Regge pole in, high-energy amplitude in scalar and quantum electrodynamics for, 24:24445

Pomeranchuk trajectory for high-energy hadron interactions, diffractive nature of, 24:8752
Pomeranchuk trajectory for $\pi + N$ interactions, Harari—Freund ansatz related to finite-energy sum rules for nonflat, 23:51944
Pomeranchuk trajectory for $\pi + \pi$ interactions, crossing-symmetric amplitude for, 25:3365
Pomeranchuk trajectory for virtual Compton $e + N \to e + N$ interactions, finite-energy sum rule analysis for, 25:43584 (ITF-71-27-E)
Pomeranchuk trajectory from multi-Veneziano model for $\pi + N \to (n - 1)\pi + N$ interactions, slope of, 23: 21121
Pomeranchuk trajectory in forward elastic-scattering amplitude, spin independence of high-energy cross sections from dominance of, 21:37938
Pomeranchuk trajectory in low-energy scattering amplitudes, 22:35151
Pomeranchuk trajectory in Veneziano representation for $\pi + \pi$ scattering amplitude, 23:36917
Pomeranchuk trajectory in, absence of exchange degeneracy for, 23:46797
Pomeranchuk trajectory in, duality with W trajectory for, 25:53379
Pomeranchuk trajectory in, multiperipheral mechanism for, 24:37777
Pomeranchuk trajectory in, properties of, 23:19017
Pomeranchuk trajectory in, resonance width equation from potential scattering for, 24:49632
Pomeranchuk trajectory relation with hadron vacuum quantum numbers in, 21:42339
Pomeranchuk trajectory slope from $\gamma + p \to$ phi + p interactions, (E/T), 24:30487
Pomeranchuk violating amplitude in $\pi + N$ interactions, origin and limit of, 24:21984
Pomeranchuk-exchange contribution to forward photon processes in, 21:37743
Pomeranchuk-like trajectories from nonplanar dual loops, 24:28619
Pomeranchuk-pole exchange contribution to forward Compton scattering, 23:44629
Pomeranchuk-pole exchange in strong interactions for isotopic relations for particle production from same isomultiplet in, (T), 25:7630
Pomeranchuk-trajectory exchange in Compton $\gamma + N$ interactions, multiple, 24:13003
Pomeranchuk-type theorems in, strict locality and microcausality principles and conditions for validity of, 24:1661 (ITF-69-46)
Pomeranchukon decoupling from amplitude for $\pi + N$ interactions, 25:17511
Pomeranchukon exchange corrections to amplitudes of $\pi^- + p \to \pi^- + p$ and $\pi^+ + p \to \pi^+ + p$ interactions at 12 to 18.6 GeV/c and small angles, multiple, (E/T), 23:51946
Pomeranchukon exchange in high-energy elastic scattering, multiple-scattering corrections to, 22:46397
Pomeranchukon exchange in model for forward diffraction peak in $\pi^- + p \to \pi^- + p$ and $\pi^+ + p \to \pi^+ + p$ interactions, (T), 23:21107
Pomeranchukon in $\gamma + N \to$ phi + N interactions, distinction between Freund and CHN classification of, 23:46660
Pomeranchukon in interactions with three-particle final states, factorization test, 25:3395
Pomeranchukon in, fixed-pole models for, 25:22778 (SU-1206-239)
Pomeranchukon vertex as function of t from proton production in p + p interactions at 24 GeV/c, evaluation of triple-, (E/T), 25:50159
Pomeranckuk parameters P and P' in crossing-even K + N interactions, 23:3731
Pomeranon in total cross sections and phase of forward amplitudes of $\pi^- + p$ and $\pi^+ + p$ interactions, distinction between rescattering and absorptive corrections to, 23:51942
pomeron bootstrap for p + p interactions in, multiperipheral fragmentation for diffractive, 25:33768 (UCSD-10-P-10-77)
pomeron dominance of electroproduction structure functions, 25:30779
pomeron exchange for production of Z_1^* in $K^+ + p$ interactions in, s-channel spin-nonflip amplitude in, (T), 25:33738
Pomeron exchange in diffractive $\gamma + p \to$ rho^0 + N + mπ interactions at 5 to 100 GeV, (T), 25:3308 (DESY-70/45)
pomeron exchange in K + N and $\pi + N$ interactions in, s-channel spin-nonflip amplitude in, 25:33738
Pomeron exchange in phi + p $\to$ phi + p interactions in, $\gamma + p \to$ phi + p interactions for tests of Frauschi—Margolis model for multiple, 24:52034
Pomeron exchange in π production in $\pi + p$ interactions at high energies, review of, (E), 24:24236 (ANL/HEP-6909, pp 37-59)
Pomeron for scattering lengths for $\pi + \pi$ interactions, corrections from, 25:50129
Pomeron from diffractive model of scaling for ratio of cross sections of anti $\nu + N$ and $\nu + N$ interactions, 24:47415 (LNF-70/27)
Pomeron hypothesis for exchange degeneracy for oscillating total cross sections for strong interactions in, (T), 25:14656 (SU-1206-237)
Pomeron hypothesis for form of real-to-imaginary parts for amplitude of $\pi^- + p \to \pi^- + p$ interactions at high energies, 25:14656 (SU-1206-237)
Pomeron in, 25:30826
Pomeron in eikonal approximation for elastic interactions of equal-mass spinless bosons, self-reproducing flat, 25: 40985
Pomeron in $p + p \to p + p$ interactions at high energies in, flat, 25:1563
Pomeron in strong interactions, fixed-pole models for, 25:40974
Pomeron in, bootstrap model for self-reproducing, 25: 41068
pomeron model from duality diagrams in Veneziano model, 25:31022
pomeron slope in $p + p \to p + p$ interactions at 10 to 70 GeV/c with small momentum transfer in, moving-pomeron-plus-cuts model for, 24:18225
Pomeron spin independence in $\pi + N \to \pi + N$ and vector meson and nucleon production in $\gamma + N$ interactions in, 24:40398
Pomeron-like exchange dominance in cross sections of $p + p \to N + N + \pi$ interactions at 19 GeV/c in hydrogen bubble chamber, (E), 24:3514
prediction for polarization parameter in elastic p + p interactions at 0.75 to 2.84 GeV, (E), 21:33605
prediction of phases of $K^- + n \to K^- + n$ interactions with $K^+ + p \to K^+ + p$ and $K^- + p \to K^- + p$ interactions in, 24:10755
predictions for differential cross sections and polarization in $K^- + p \to$ anti $K^0 + n$ and $\pi^- + p \to \pi^0$ (eta^0) + n interactions at high energies, 23:39730
predictions for dipole model of A_1 exchange in $\pi^+ + p \to$ eta + Δ interactions at high energies, 23:39716
predictions for polarization in $K^- + p \to$ anti $K^0 + n$, $\pi^- + p \to \pi^0 + n$, and $\pi^- + p \to$ eta + n interactions at high energies, 21:42359
predictions for polarization parameters in elastic p + p interactions at 0.75 to 2.84 GeV, 21:44269
predictions for π production in $\pi + N \to \pi + \pi + N$ interactions at 1.25 and 1.59 GeV/c near rho region, 22:17971
predictions for $\pi^+ + p \to$ eta + Δ^{++}(1236) interactions, 22:7519
predictions of double Regge pole model for quasi-three-body production in $\pi^- + p \to 2\pi^- + \pi^+ + p$ interactions at 11 GeV/c, for, 22:39393 (CERN-68-7(Vol.1), pp 611-47)
predictions of multi-Regge-pole exchange model for $p + p \to p + p + \pi^+ + \pi^-$ interactions at 16 GeV/c, 23: 15146
production amplitudes in, multi-Reggeon behavior of, 23:15260
production cross sections in, use of Toller variables for high-energy multiple, 21:40154
production of π^+ and π^0 in $\gamma + N$ interactions at 4.3 to 12 GeV at large angles in, differential cross sections for, 25:14598
production processes in multi-, kinematics and dynamics of, 25:3389
production processes in multi-, three-body, 24:18226
properties of complex poles for bosons, 25:59434
proton electromagnetic form factor in, formula for, 22: 32087
quantization conditions for Regge intercepts and hadron masses, 23:8858
R-matrix theory of Regge poles, 21:4124
recurrence series for angular momentum dependence of coupling constants for $\Delta \to N^* + \pi$ and $N^* \to N + \pi$ decays in, 24:13089
recurrences for elastic $\pi + p$ interactions at high momentum transfers, 21:23338
recurrences for N^* resonances, 22:3406 (INP-555/PL/PH, pp 51-63)
recurrences in baryon spectra, Argand diagrams for, 21: 29505 (ITF-66-3)
recurrences in, infinite sequence of, 21:29643
recurrences of inelastic resonances, dynamic mechanism for Regge, 21:19000
Regge cuts and multipoles in, asymptotic unitarity constraints on, 21:35348 (NP-16869)
Regge cuts in, twisting trajectories for vanishing total cross sections from condensation of, 21:35349 (NP-16870)
Regge exchange for Feynman relation for particle production near boundary of phase space, 25:53037 (NYO-4204-17)
Regge formula in, zeros in, 21:42336
Regge identity for SU(3) Wigner coefficients, 21:21265
Regge limit from chiral SU(3) x SU(3) equal-time commutation relation extension to light cone for lepton interactions with hadrons at high energies, 24:3590
Regge limits in hadron interactions, Reggeon—Reggeon amplitude and duality sum rule from dual amplitude analysis of ditriple, 25:53378
Regge limits in inclusive hadron interactions, two-Reggeon-particle and triple Reggeon couplings from duality sum rule and Reggeon—Reggeon amplitude from di-triple, 25:43570 (NYO-2262-TA-247)
Regge mechanism for production of πrho system in A_1 region in $\pi + N \to$ rho + π + N interactions, double, 23:51948
Regge parameter effects from phase shift ambiguity effects on finite-energy sum rules for amplitudes of $\pi + N$ interactions in, 25:17500
Regge particle exchange, Feynman rules for graphs with, 24:40495
Regge pole conspiracy in anti N + N and N + N interactions, π, 21:35305
Regge pole formula for elastic interactions of two unequal-mass particles, 21:975
Regge poles in high-energy scattering, 21:4122 (CALT-68-106)
Regge poles of crossed channel, for high-energy contribution to dispersion sum rules, 21:5360
Regge residues in resonance production from scalar meson two-body interactions, 21:35301 (NP-16862)
Regge symmetry of SU(2) group Wigner coefficients in, 25:3305
Regge trajectories in nonlocal separable potential theory, 21:7579
Regge trajectory coupling to baryons and mesons, ratio for ω and phi, 21:2506
Regge trajectory for $K^+ + n \to K^+ + p$ interactions at 2.3 GeV/c, rho', 21:35307 (UCRL-17572)
Regge vertex, amplitude for triple, 25:43723
Regge—eikonal representation for amplitudes of high-energy scattering in, 25:36587 (JINR-P2-5768)
Regge—Mandelstam pole contributions in direct channel, sums of, 23:15204
Regge-pole behavior of strong-interaction amplitude in SL/sub 2,c/ model field theory, 21:21296
Regge-quark model for hadron-hadron interactions, 21: 37783
Reggeization of π exchange in $\pi + N \to$ rho + N interactions in, 25:38751
Reggeized multiperipheral graphs for amplitudes of high-energy spinless-particle scattering, formulation of convergence of unitarity series for, 24:26522
Reggeized multiperipheral model for energy dependence of cross sections for inelastic $\pi^- + p$ and $\pi^+ + p$ interactions at 1 to 12 GeV/c in, (E/T), 24:37801
Reggeized pion-exchange model for single π production in $\pi^- + p \to n$ + rho^0 and $p + p \to n + \Delta^{++}$ interactions, 25:47882
Reggeon and tadpole couplings to baryons in 0^- meson interactions with $^1/_2{}^+$ baryons, s-channel for, 24:13099
reggeon calculus from hybrid perturbation-theory model using eikonal technique, 25:30980
Reggeon coupling for diffraction dissociations, duality sum rule for triple-, 25:53378
Reggeon coupling function in, three-body, 23:52021
Reggeon coupling relation with low missing-mass spectrum in diffraction dissociation in two-body interactions in, duality for triple, 25:36420 (UCSD-10-P-10-78)
Reggeon cuts in $\pi + \pi$ and $K^- + p \to K^+ + \Xi^-$ interactions at high energies, two-, 25:59618
Reggeon diagram for asymptotic theory of hadron reactions with nuclei at high energies, 24:42992
Reggeon diagram technique for analysis of branch points in angular momentum plane, 21:44436
Reggeon exchange contribution to strong interaction amplitudes at high energies, two-, 25:59618
Reggeon exchange contributions to strong interactions at high energies, 25:14657 (UCRL-20032)
Reggeon interactions with particles, Veneziano model for amplitudes of, 25:38806
reggeon interactions with particles, Veneziano model for amplitude of nonvacuum, 24:35618
Reggeon interactions with Reggeons, Veneziano model for amplitudes of, 25:38806
Reggeon—particle coupling for diffraction dissociations, duality sum rule for two-, 25:53378
Reggeon—Reggeon amplitude from di-triple Regge limits in inclusive hadronic interactions, 25:43570 (NYO-2262-TA-247)
Reggeon—Reggeon amplitude from dual amplitude analysis of ditriple Regge limits in hadron interactions, 25:53378
Reggeon-cut interaction in, two-Reggeon-spinless particle coupling for, 23:51914
Reggeon-diagram Gribov-technique for multiple rescattering in N + N and $\pi + N$ interactions at high energies, 24:10783
Reggeon-particle and triple-Reggeon couplings from duality sum rule from di-triple Regge limits in inclusive hadron interactions, two, 25:43570 (NYO-2262-TA-247)
Reggeon-spinless particle coupling in, two-body, 23: 51914
Reggeons as electric multipoles in, N-Reggeon vertex from, 25:22905
relations for pole conspiracy in $\gamma + N \to \pi + N$ interactions using O(4) symmetry, 22:3336
representation for backward elastic $\pi^- + p$ interactions, 22:3433
representation for forward unequal-mass-particle scattering, 23:30830
representation for general two-body scattering amplitude in, 21:33785
representation for partial-wave scattering amplitude in, 21:42464
representation for S, P, and D waves in potential scattering theory, 21:42465
representation for spinless particles in backward direction, 22:44511
representation for unequal-mass scattering, 21:15423
representations for analysis of $\pi + N$ phase shifts, 21: 2475
representations for $\pi + N$ phase shifts at low energies, 21:932
representations for scattering amplitude, 22:11740
representations of Khuri type, modified Regge, 21:21316
research on, 25:53035 (AD-712740)
research on, 25:1429 (AD-706920)
research on, review of, 24:8572 (AD-687147)
research on, review of, 22:15696 (NP-17252)
research on, review of, 23:18823 (CONF-671217-, pp 370-588)
research on, review of recent developments in, 23:34662
research on, survey of, 23:18882
residue function and conspiracy, factorization and kinematic factors of, 23:5697
residue function β from unitary representation for partial-wave amplitudes, 24:18183
residue function for unitary bootstrap calculations in, analytic continuation of, 24:37965
residue functions and chiral symmetry in Veneziano model, 24:37969
residue functions for $\gamma + N \to \pi + N$ interactions, 22: 34898 (NP-17489)
residue functions for $\pi + N$ interaction amplitudes intermediate-energy region contribution in dispersion sum rules for, 24:33017 (IFVE-STF-69-43)
residue functions for $\pi + \pi$ and $\pi + N \to \pi + N^*$ interactions in, s-channel helicity conservation constraints on t-channel exchanges for, 25:28028 (SU-1206-242)
residue functions for two-particle interactions in, 23: 5710
residue functions from fixed-t dispersion relations for $\pi + N$ charge-exchange interactions, 23:23473
residue in $\pi^+ + p \to \pi^0 + \Delta^{++}$ interactions, exponential-type, 22:46425
residue of P' trajectory, test of Ansatz for, 23:10867

residues and trajectories for small momentum transfer, uniqueness of parametrization of, 24:3779
residues and trajectories in π^+ photoproduction, use of continuous moment sum rules for pion and conspirator, 22:44355
residues for extrapolation of $\gamma + p$ total cross sections at high energies to deep inelastic $e + p$ interactions, 25:3312 (NYO-4204-6)
residues for pseudoscalar meson forward and backward interactions with $^1/_2{}^+$ baryons at high energies in, 25:30883
residues for spin dependence of anti $p + p \rightarrow \Delta(1236)$ + anti Δ interactions at 5.6 GeV/c, factorization theorem of, (T), 24:10758
residues for transition amplitudes, Lorentz pole relation with momentum transfer dependence of, 23:39853
residues in multi-Veneziano model for amplitude of Compton $\gamma + N \rightarrow \gamma + N$ interactions in, scale invariance and external mass dependence of, 25:22738
residues in O(3,1) symmetry expansion of forward scattering amplitude, zeros of, 22:39461
residues in scattering amplitudes, Gribov—Pomeranchuk pole in, 25:9893
residues in three-body vertices in amplitudes of four-body particle interactions in, review of experimental tests of SU(3) symmetry for, 22:37172 (CONF-670725-, pp 105-42)
residues in Veneziano model for density matrices for spin-1 and -2 resonances from meson (π) exchange in $\pi + N \rightarrow 2\pi + N$ interactions, 23:51933
residues in Veneziano model, sign of, 25:3453
residues of vector trajectories in universal coupling of ω, 23:15096
residues of vector trajectories, relation with universal coupling of ω, 22:5563 (TID-24135)
resonance behavior in, relation between unitarity and high-energy, 24:13064
resonance model for five-particle production amplitudes in, 23:15267
resonance parameters from interference model in, 22:50471
resonance production in $K + N$ and $\pi + N$ interactions in, 22:20244
review, 25:38800
review, 21:4001 (CALT-68-101)
review of multi-Regge model, 23:13077
review on, 24:24450
review on, 25:41121
review on, 25:59425
review on, definitions and glossary for, 23:51983 (UCRL-19351)
rho-exchange parameters for $\pi + N$ interactions at low energies in, 21:37805
S-matrix elements for large argument values for $\pi + N$ interactions and photon Compton interactions with spinless targets in, 22:20351
S-matrix theory development in, 23:15271
scattering amplitude additivity in, quark, 22:13732 (ITF-67-33)
scattering amplitude as absolutely convergent Veneziano series in, conditions for, 24:30591 (SU-1206-221)
scattering amplitude determination from polarization measurements in, 21:35354
scattering amplitude for $N + N$ interactions, contribution of two-rho cuts to partial-wave, 22:13776
scattering amplitude for photons in, spin dependence of high-energy, 21:42473
scattering amplitude for Reggeon—particle interactions, enhancement effect in, 24:15682
scattering amplitude in bootstrap theory, self-consistency of Regge singularities in, 23:21169
scattering amplitude in impact parameter model, Regge-like poles in, 22:9709
scattering amplitude in multi-, Landau singularity and fixed-angle behavior of, 25:31033
scattering amplitude in, angular-momentum branch points in two-body, 22:3549
scattering amplitude in, asymptotic behavior of Bethe—Salpeter elastic, 23:15261
scattering amplitude in, asymptotic behavior of meson—nucleon, 22:11675
scattering amplitude in, asymptotic duality series and two-body unitarity of, 24:26524
scattering amplitude in, construction of crossing-symmetric, 23:19023
scattering amplitude in, convergent Veneziano series expansion of, 25:7754
scattering amplitude in, crossing symmetry and duality for, 23:46693
scattering amplitude in, group-theoretic analysis of multiparticle, 22:5673
scattering amplitude in, infinite set of models satisfying crossing symmetry and duality for, 24:37960
scattering amplitude in, MacDowell symmetry and conspiracy constraints for fermion trajectory and residue functions for, 25:28092
scattering amplitude in, model for 3-to-3, 24:3778
scattering amplitude in, shrinking nature of diffraction, 21:40222
scattering amplitude in, triple-Regge vertex for, 24:33053 (UCRL-19795)
scattering amplitude in, unitarity equation for two-body elastic, 23:19008
scattering amplitude involving three-Reggeon vertex, analyticity, asymptotics, and Toller pole model for, 24:49627
scattering amplitude of two spinless particles in, contribution of O-type poles to, 23:1711
scattering amplitude representation in, relation with O(2, 1) representation, 24:8739
scattering amplitude with cuts in, dual, 25:9899
scattering amplitude with eikonal structure from multiple Reggeon exchange in, 25:20111
scattering amplitude with small transverse momentum in, diagram method for asymptotics of inelastic, 22:35132
scattering amplitudes, 24:47512 (SINP-TH-67-6)
scattering amplitudes at fixed angles in, phase contours for crossing-symmetric model for, 22:46542
scattering amplitudes at high energies in, nonoscillating behavior of, 22:35153
scattering amplitudes at high energies in, quantum electrodynamics for, 23:21153
scattering amplitudes at large momentum transfer in, high-energy behavior of, 23:15156
scattering amplitudes for currents on hadrons, compatibility of current-algebra identities with, 24:12982
scattering amplitudes for unequal-mass particles in, Reggeization of, 21:37946
scattering amplitudes for Yukawa potentials, Regge-type representations for, 22:35146
scattering amplitudes in, 25:41120
scattering amplitudes in Veneziano model, factorization of N-point dual loop, 24:52222
scattering amplitudes in, absorption and multiple-scattering models for unitarizing, 23:49170
scattering amplitudes in, absorption and rescattering corrections to, 22:41871
scattering amplitudes in, analytic properties of, 23:5700
scattering amplitudes in, asymptotic behavior of planar duality, 24:26525
scattering amplitudes in, baryon-exchange models with direct-channel, 23:10860
scattering amplitudes in, Bethe—Salpeter, 25:17595
scattering amplitudes in, consistency condition for crossing symmetric, 23:32845
scattering amplitudes in, contribution of fixed angular-momentum-plane branch points to $t = 0$ singularity structure of, 25:47981
scattering amplitudes in, crossed-channel Reggeon exchanges in elastic, 25:17496
scattering amplitudes in, definition of duality for unitary, 23:42758
scattering amplitudes in, dependence of two-Reggion—one-particle vertex functions on Toller ω variable for, 23:15251
scattering amplitudes in, derivation of Veneziano series from representations for, 24:8748
scattering amplitudes in, dips in, 23:5690
scattering amplitudes in, divergent helicity sums in multiparticle, 25:20110
scattering amplitudes in, dual and factorizable n-point functions for, 24:37963
scattering amplitudes in, elastic unitarity constraints on Regge-cut discontinuities in, 21:42467
scattering amplitudes in, generalization of concept of signature for asymptotic behavior of, 23:46712
scattering amplitudes in, Gribov—Pomeranchuk poles in, 21:42466
scattering amplitudes in, high-energy, 24:35725
scattering amplitudes in, implications of colliding cuts and poles for, 24:28618
scattering amplitudes in, infinite one-particle-exchange model for, 25:53381
scattering amplitudes in, integral equation based on unitarity and short-range momentum—space correlations for, 23:44725 (AD-686370)
scattering amplitudes in, loops in partial waves of, 23:13140
scattering amplitudes in, Lorentz poles from factorization and analyticity in equal-mass, 22:44523
scattering amplitudes in, lower bound on, 23:46831
scattering amplitudes in, non-Regge behavior for weak, 21:7567
scattering amplitudes in, phase contours for, 23:42773
scattering amplitudes in, phase contours for analyticity in crossing symmetric model with rising trajectories for zeros and poles of, 22:37201 (UCRL-18243)
scattering amplitudes in, Reggeized absorption model for, 25:5433
scattering amplitudes in, relation of $M = 0$ and $M = 1$ Regge and Toller pole families for, 23:23569
scattering amplitudes in, relation of Regge-pole coupling to spin dependence of high-energy, 21:42472
scattering amplitudes in, resonances from Argand-diagram analysis of, 22:50472
scattering amplitudes in, restrictions on, 24:47517
scattering amplitudes in, review of higher symmetries from partial-wave analysis of equal- and unequal-mass, 23:44737
scattering amplitudes in, review of models for, 24:22020
scattering amplitudes in, s-channel helicity, 25:41117
scattering amplitudes in, s-channel helicity conservation constraints on asymptotic behavior, 25:53157
scattering amplitudes in, structure of high-energy, 23:8851 (INP-622(Vol.1), pp 8-27)
scattering amplitudes in, three-Reggeon vertex for six-particle, 24:15690
scattering amplitudes in, three-Reggeon vertex for six-particle, 24:15689
scattering amplitudes in, Toller-angle dependence in multiperipheral integral equation for, 24:37968
scattering amplitudes in, use of finite-energy sum rules for asymptotic behavior of, 22:35149
scattering amplitudes in, use of nonsignatured partial-wave, 24:3781
scattering amplitudes in, Veneziano functions for, 24:49631
scattering amplitudes of $2 \rightarrow 3$ particle processes, Toller-angle dependence of multi-Regge vertices for, 24:13207
scattering amplitudes of mesons and baryons in, model for forward, 23:1642
scattering amplitudes of multiparticle production processes in, partial-wave analysis of, 24:3780
scattering amplitudes with linearly rising trajectories, crossing symmetric, 23:8859
scattering amplitudes, Gribov—Pomeranchuk phenomenon in N/D method for, 22:20220
scattering at high energies in, extended particle model for elastic, 22:5668
scattering at high energies in, phenomenological theory for, 21:33774 (CERN-67-16)
scattering at high energies in, quark coupling in model for, 22:37202 (UCRL-18251)
scattering in, 23:49215
scattering in, correspondence of equations of multiperipheral and multireggeon theories of inelastic, 24:37937
scattering in, high-energy, 21:29541
scattering in, high-energy multiperipheral, 23:37009 (BNL-50162)
scattering in, kinematic constraints on crossing equations for elastic, 23:25713
scattering in, Reggeon diagram technique for high-energy, 22:22463 (ITEF-511)
scattering in, review of phenomenological high-energy, 23:46851
scattering in, short-wavelength, 25:59615
scattering theory in, N/D equations in inelastic, 21:35345 (IC-67/55)
scattering with unitary separation of background parts in, multichannel, 24:52230
singular structure of Amati—Bertocchi—Fubini—Stanghellini—Tonin equation in complex poles, 25:25529
singularities and zeroes of Regge pole residues for processes with external spins, kinematic, 21:31591 (NP-16821)
singularities at particle-mass zero in model, 22:26635
singularities in angular momentum plane for amplitudes associated with exchange of Regge poles, 21:37937
singularities in asymptotically unequal cross sections of $K^+ + p$ and $K^- + p$ total cross sections, Pomeranchuk theorem violation in, 24:13100
singularities in complex angular momentum plane of $\pi + N$ interactions at high energies in, 24:20152 (BNL-50212, pp 159-247)
singularities in forward $\pi + N$ charge exchange, use of sum rules for analysis of, 22:29708
singularities in multi-Regge model in, self-consistent, 23:21179
singularities in near-forward charge-exchange scattering in, alternative to finite-energy sum rules for phase shifts for, 24:24447
singularities in phenomenological analysis of $K + N$ interactions at low energies, 21:23337
singularity as dual partner for Pomeranchukon in set for $\pi + \pi$ interactions in, 24:18181
SL(2,C) model in, πN resonance decay widths in, 23:44658
spinor in Yang—Mills theory in, Reggeization of, 25:1605
strong interaction inclusive cross sections near kinematic boundary in, 25:25395 (RLO-1388-601)
strong interactions in, lectures on, 25:19977
strong interactions in, numerical game as test of, 25:25402
structure of Regge poles and residues for two-body reactions, 24:26527
sum rules and Horn—Schmid duality, finite-energy, 22:39498
sum rules for forward amplitudes of π + rho interactions in, 21:31588
sum rules for $\gamma + N \rightarrow \pi^+(\pi^-) + N$ interaction cross section relations with $\pi^- + p \rightarrow$ rho$^0(\omega) + n$ and $K + N \rightarrow K^{*0} + N$ interactions, 23:42609
sum rules for high-energy interactions, tests of, 21:17130
sum rules for mesons (eta) and (π^0) photoproduction on nucleons, 23:42608
sum rules for $\pi + N$ interactions in, family of dispersion, 23:21116
sum rules for π^0 photoproduction in, ω residue function and finite-energy, 22:34921
sum rules for Regge parameters for $K + N$ interactions, superconvergence, 22:3425
sum rules for t-channel Regge pole fit to meson—baryon interactions, SU(3) continuous-moment, 23:21122
sum rules from, for $\gamma + N \rightarrow \pi + N$ interactions, 21:27336
sum rules in, bootstrap calculation of crossing-symmetric finite-energy, 22:53034
sum-rule analysis of $K + N$ interactions in, 22:7517
superconvergence and conspiracy for π photoproduction in, 21:42314
superconvergence relations for particle—particle interactions in, 21:42286
superconvergence relations for $\pi + N$ interactions in, modified, 21:42378
superconvergence relations from, 21:37935
superconvergence relations in presence of Regge cuts in, 21:17126
superconvergence sum rule for Reggeized rho-exchange parameters in $\pi + N$ interactions, 22:44433
superconvergence sum rules in, 21:37791
symmetries in, higher, 23:1702 (KFKI-18/1968)
symmetries in, model for higher, 24:13135
symmetries of 3j symbols of SU(2), 21:31612 (LPTHE-TH-183)
symmetry in, representations in explicitly energy-dependent basis for SL(2,C), 25:41038
symmetry in, unitary and nonunitary representations in explicitly energy-dependent basis for SL(2,C), 25:41037
tadpole model for hadron electromagnetic mass differences and amplitude of $\pi + N$ interactions in, variational method for chiral symmetry for, 25:22748
test from cross section relations for $K^+ + n \rightarrow K^0 + p$ interactions, 22:24655
test of absorptive cut models in, polarization in $\pi + N$ and $K + N$ interactions in, 25:50140
test of parameters by inverse dispersion relations, 23:18900
test of, $\pi + \pi$ and $\pi + N$ interactions for, 21:29527
testing in π^0 production from $\gamma + N \rightarrow \pi^0 + N$ interactions at high energies, 22:1414
tests of model with absorption in $\pi + N \rightarrow \omega + N(\Delta)$ interactions in, 23:32753
theory, 21:2389 (NP-16365)

theory for anti N + N and N + N interactions, 21:29619
theory for double-charge exchange interactions, two-Reggion branch points in, 21:21243
theory for inelastic two-body interactions at high energies, 21:27357
theory for $K^+ + p \rightarrow K^0 + \Delta^{++}(1236)$ interactions, 22:3428
theory for $N^*(1688)$ and $N^*(1920)$ as recurrences of N(940) and $N^*(1240)$, 21:37809
theory for N(2650) production from $\pi^- + p \rightarrow$ eta + n interactions at 3.20 to 5.00 GeV/c, 22:20258
theory for nucleon—nucleon interactions at high energies, 21:25317
theory for particle—nucleus reactions at high energies, 22:1450 (AD-648017)
theory for particles with spin in, review of nonsense, conspiracy, and singular residues in, 21:42452
theory for pion in $\pi \rightarrow \mu + \tau$ decay and antibaryon + baryon $\mu + \tau$ interactions, 22:7478 (OU-LNS-67-9)
theory for polarization in $\pi^- + p \rightarrow \pi^0 + n$ at 6 GeV, 21:926
theory for π + N, K + N, and anti K + N amplitudes, 21:928
theory for π production from γ + N interactions at high energies, (T), 21:35283
theory for $\pi^- + p \rightarrow \pi^0 + n$ interactions, review of, 22:7489 (UCSD-10-P-10-29)
theory for scattering, 21:17186
theory for strong interactions, 21:29522
theory for, relation with current algebra in, 23:18886
theory for, relation with Poincare time-like and light-like cross-channel expansions for $\pi + N \rightarrow \pi + N$ interactions, 23:49152 (IS-T-324)
theory of Regge trajectory exchange for resonance production in high-energy interactions, 21:25301
theory of several Regge poles for $\pi^+ + p$ interactions, 21:33709
theory of, book on, 21:27324
theory of, review of, 21:4004
three-pole model for π^0 and π^+ photoproduction at backward angles, (E/T), 24:37690
Toller pole analysis of dip structure in backward $K^- + n \rightarrow \Lambda + \pi^-$ interactions in, 25:41004
Toller pole reduction for forward N + N interactions, O(4) propagators for, 23:10828
trajectories A_2 and rho in, determination from $\pi^- + p \rightarrow \pi^0 + n$ and $\pi^- + p \rightarrow$ eta^0 + n interactions, 21:40218 (NP-16952)
trajectories and amplitudes in Veneziano model for pseudoscalar meson interactions, 23:42657
trajectories and daughter pole relation with two-dimensional expansions of binary scattering amplitudes, 22:39492 (JINR-E2-3841)
trajectories and daughter poles in, two-dimensional expansions of, 23:7191
trajectories and falling residues for π + N interaction in, experimental test of rising, 22:7510
trajectories and flat total cross sections for meson—meson and baryon—antibaryon interactions, U(3) x U(3) model for exchange degeneracy of, 23:23455
trajectories and Regge behavior of unique Veneziano representations for relativistic scattering amplitude in, 23:46852
trajectories and residue functions for scattering amplitude in, MacDowell symmetry and conspiracy constraints for, 25:28092
trajectories and residues in O(4) expansion of off-shell scattering amplitudes, general form of, 24:37972
trajectories and residues in O(4) expansion of off-shell scattering amplitudes, general form of, 24:37971
trajectories and residues in relativistic quark model of mesons, 23:5611
trajectories and residues of rho and rho' poles in $\pi^- + p \rightarrow \pi^0 + n$ interactions, 22:48325
trajectories and SU(2)/sub W/ symmetry for anti N + N interactions in, confluence of, 22:9660
trajectories associated with relativistic dynamical group for linear meson, 24:1575
trajectories at high energies for class of analytic potentials, 25:53399
trajectories at infinity, second-sheet poles and maximum behavior of, 24:47513
trajectories at nonvanishing energy in, families of, 22:26579 (KFKI-4/1968)
trajectories at nonvanishing energy, Bethe—Salpeter equation for families of, 22:39494
trajectories at t less than or equal to 0 for bosons in, coalescence of, 21:33694
trajectories exchange for π and K^+ production in γ + p interactions, 22:3324
trajectories for A_2 in $\pi^- + p \rightarrow$ eta + n interactions at 2.5 to 20 GeV/c, 25:25421
trajectories for amplitudes violating Pomeranchuk theorem, complex negative-signature, 25:43715
trajectories for amplitudes with Pomeranchuk theorem violation in, complex negative-signature, 25:31012 (COO-264-571)
trajectories for arbitrary-mass and -total-energy bound-state scattering, 23:46853
trajectories for baryon resonances without MacDowell partners, 24:37792
trajectories for baryons from Khuri amplitudes for π + N interactions, derivatives of, (T), 24:42976
trajectories for baryons, exchange degeneracy for, 24:37783
trajectories for baryons, Minami symmetry for α octet and γ octet, 23:27817
trajectories for baryons, self-sustaining regime for linear asymptotic behavior of, 24:47453
trajectories for baryons, symmetry properties of, 22:46418
trajectories for bosons and fermions, threshold cusps in, 22:32223
trajectories for charge-exchange π + N and K + N interactions, exchange-degenerate, 24:18221
trajectories for Coulomb nuclear S-matrix, 23:19015
trajectories for crossing-symmetric amplitudes, infinitely rising, 23:18895
trajectories for direct-channel $\pi + p \rightarrow \pi + p$ interactions at low energies in, phenomenological, 24:20153 (IS-T-355)
trajectories for families of N^*, superconductivity in quark model for, 22:39401 (JINR-P2-3802)
trajectories for families of resonances at high energies, infinitely rising nonlinear, 22:44521
trajectories for fermions in, Carlitz—Kislinger model for parity twins for, 25:1651
trajectories for fermions in, reflection symmetry of conspiring fermions, 22:53036
trajectories for fermions, daughter, 24:37885
trajectories for forward n + p and anti p + p charge exchange interactions, conspiracy among, 21:37776(R) (UCR-34-P-107-49)
trajectories for $\gamma + N \rightarrow \pi + N$ interactions, conspiracy and gauge invariance in Veneziano model with, 23:51897
trajectories for hadron elastic interactions with protons in, compilation of effective, 25:38663 (UCRL-20001)
trajectories for hadron interactions with hadrons at high energies, comparison with evidence for cuts and, 23:51961
trajectories for hadron interactions with hadrons, quantization condition for linear and nonlinear, 23:39687 (RLO-1388-554)
trajectories for hadron interactions, five-point functions for, 23:39692
trajectories for hadron—hadron interactions, exchange degeneracy of SU(3)-symmetric, 24:8625
trajectories for harmonic oscillator and Gaussian potentials, 22:3540
trajectories for heavy meson resonances, 24:24356
trajectories for high-energy forward scattering, O(3,1) symmetry of, 22:22470
trajectories for high-energy scattering, quark effects on, 23:32836
trajectories for higher baryon resonance production in e + N interactions, SU(6)/sub W/ summetry for, 22:35058
trajectories for I = 1 mesons, widths in linear, 21:33692
trajectories for I = 1, heavy mesons, relativistic model with linear spectrum for ratios of parameters for slopes of, 22:41804 (JINR-P2-3859)
trajectories for infinite-component local quantum field theory with rising mass spectrum in, 25:14799
trajectories for interactions of unequal-mass particles, daughter, 21:18973
trajectories for inverse square potential in, 25:7749
trajectories for isospin-one exchange interactions in, secondary, 23:15254
trajectories for isospin-one mesons, 22:26645
trajectories for mass = 0 bound-state scattering, 23:46854
trajectories for meson and baryon supermultiplets in U(6) x U(6), 22:37183
trajectories for meson from asymptotic SU(3) x SU(3) symmetry in Veneziano model, slope of, 24:40368
trajectories for meson interactions with baryons, duality concept and imaginary parts of, 25:28036
trajectories for meson—baryon and baryon—baryon interactions, relations between reduced residues of, 23:46734
trajectories for meson—baryon scattering in states of SU(3) representations 10^* and 27, exchange degeneracy of, (T), 23:13118
trajectories for mesons and baryons, partial widths of resonances on exchange-degenerate, 24:13041
trajectories for mesons in, 25:47853
trajectories for mesons in nonrelativistic quark model, consequences of duality for, 24:20151
trajectories for mesons in, asymptotic behavior of, 25:40979
trajectories for mesons in, dynamical group of relativistic oscillator model with maximum rest symmetry for family of parallel linear, 24:13056
trajectories for mesons, N-point dual functions for, 25:36485
trajectories for multi-channel potential scattering, 25:31031
trajectories for multichannel scattering in, 24:52234
trajectories for N + N and anti N + N interactions, exotic resonance production in, 23:42661
trajectories for N and Δ in, Regge families in broken SL(2,C) for classification of, 22:39392 (CERN-68-7(Vol.1), pp 494-522)
trajectories for N and Δ masses in, formula in broken SL(2,C) for, 22:29737 (KFKI-5/1968)
trajectories for N^* in, coupling regularity on, 25:41002
trajectories for nonlocal potential scattering, analytic function for general properties of, 24:10860
trajectories for parity doublets of baryon resonances, 22:13759
trajectories for parity doubling in π + N interactions, linear fermion, 24:28558
trajectories for partial-wave scattering amplitudes, complex, 25:41108 (COO-264-577)
trajectories for particle and antiparticle scattering amplitudes with constant and different asymptotic cross sections, complex, 25:41108 (COO-264-577)
trajectories for particle interactions in, equivalent potential approach for I = 0 and 1, 25:36422
trajectories for Pomeranchuk theorem breakdowns in total cross sections of strong interactions, odd-signature, 24:47426
trajectories for potential π + N interactions in, rising, 24:49521
trajectories for potential scattering, 23:17008
trajectories for potential scattering in classical and nonrelativistic quantum mechanics, 22:26729
trajectories for π + N charge-exchange interactions at high energies, conspiracy between rho and rho', 22:3421
trajectories for π + N interactions at high energies, continuous-parameter sum rules for rho and rho', 22:39398 (IC-68/48)
trajectories for π + N interactions at high energies in, fits of, 25:14723
trajectories for π + p interactions, secondary vacuum, (T), 24:37800
trajectories for $\pi + \pi$ interactions, nonparallel daughter, 24:40375
trajectories for $\pi^- + p \rightarrow$ eta + n interactions, A_2, 22:7516
trajectories for $\pi^- + p \rightarrow \pi^0 + n$ interactions at high energies, two, 23:34600
trajectories for $\pi^+ + p \rightarrow \pi^+ + p$ and $\pi^- + p \rightarrow \pi^-(\pi^0) + p(n)$ backward interactions, 24:18188 (CONF-690330-, pp 217-24)
trajectories for R, S, T, and U bosons in, compatibility of bootstrap hypothesis with linear, 22:20238
trajectories for recurring minima in hadron elastic interactions at high energies and large momentum transfers, 22:20221
trajectories for resonance field boundary in, complex, 25:53210
trajectories for rho and f^0 in, use of Pade approximants for S-matrix for calculating, 21:44462
trajectories for scattering amplitudes in Veneziano model, logarithmic, 23:49211
trajectories for Schroedinger equation with Yukawa potentials, Schwinger variational method for, 22:11737
trajectories for singular potential scattering, relations among, 23:52025
trajectories for singular potentials in, rising, 25:12291
trajectories for space-like momentum transfer, real and imaginary, 24:6768
trajectories for spin-0 scattering, finite-energy sum rule and nonlinearly rising, 23:21172
trajectories for spinless particles at nonvanishing energy in Bethe—Salpeter equation, families of, 22:24569 (KFKI-3/1968)
trajectories for strong interaction dynamics, infinitely rising Regge, 22:17934
trajectories for strong interactions, predictions and evidence for, 24:26423
trajectories for two Yukawa potentials, 21:44375
trajectories for two-body production in $\pi^- + p$, $\pi^+ + p$, and $K^- + p \rightarrow$ anti K^0 + n interactions at high energies in, effective, 25:5377
trajectories for vector and pseudoscalar meson interactions, superconvergent bootstrap of vector and tensor, 22:34966
trajectories for vector and tensor mesons from superconvergence in pseudoscalar meson interactions, reciprocal bootstrap of, 22:34969
trajectories for Yukawa potential, bound states from, 21:33789
trajectories for Yukawa potential, relativistic kinematics for partial-wave amplitude and, 21:44456
trajectories fro $\pi\pi$ system from multiperipheral model, dynamic, 24:18175
trajectories from backward $\pi^- + p$ and $\pi^+ + p$ elastic interactions, N/sub α/ and Δ/sub delta/, 22:41817
trajectories from factorization of N-point dual amplitudes, consistency conditions on, 24:52233
trajectories from four-dimensional symmetry for scattering amplitude, 21:37887
trajectories from infinite-dimensional wave equation, linear, 24:42937
trajectories from perturbation techniques in field theory, nonweak-coupling, 24:37880
trajectories from π + N and K + N elastic scattering amplitudes, properties of P and P', 22:41818
trajectories from reality of eigenvalues of unequal-mass Bethe—Salpeter equation in ladder models, behavior of, 24:1651
trajectories in backward $K^- + n \rightarrow \Lambda + \pi^-$ interactions, N and N(1525), 25:22821
trajectories in Bethe—Salpeter equation, daughter, 22:3517
trajectories in Bethe—Salpeter equation, operator formalism for daughter, 22:3516
trajectories in bootstrap model of π - π scattering, 21:40215
trajectories in charge and hypercharge exchange in K + N interactions in, 24:21985
trajectories in chiral U(3) x U(3) symmetry, residues of Regge, 21:18976
trajectories in closed functional form in broken SL(2,C), daughter, 23:25663
trajectories in current algebra model for particles with high mass and spin, linear, 24:15552
trajectories in direct-channel $\pi + p \rightarrow \pi + p$ interactions at low energies, phenomenological, 25:5382
trajectories in direct-channel strong-interaction amplitudes, 24:35687
trajectories in dual model, nonlinear, 25:47827
trajectories in dual multiparticle theory, review of nonlinear, 25:45816 (COO-1764-120)
trajectories in dual N-meson amplitudes in, algorithm for linear, 25:33689 (LPTHE-TH-71/11)
trajectories in dual resonance model, nonlinear, 25:7756
trajectories in elastic scattering, universality breaking for vector meson, 23:51867(R) (NYO-1984-13)
trajectories in field-theory model, intersecting, 23:15209
trajectories in generalized interference model, indefinitely rising, 23:1714
trajectories in generalized Veneziano model in, spin and unitary spin in positive-intercept leading boson and fermion, 25:7568 (NP-18542)
trajectories in $\gamma + p \rightarrow n + \pi^+$ interactions at high energies, 22:17899
trajectories in infinite-component field theory, linearly rising, 24:45582
trajectories in isovector form factor from linearly rising, 24:40316
trajectories in Kikkawa—Sakita—Virasoro-type theory, renormalization of, 24:13205

trajectories in meson (π) interactions with vector and pseudoscalar mesons, parity constraints for, 23:39729
trajectories in meson production in γ reactions with carbon-12 and oxygen-16, isolation of, (T), 25:36453
trajectories in model for nucleon isovector form factor in, linearly rising, 23:39645 (LNF-69/25)
trajectories in model for potential scattering, indefinitely rising, 23:21174
trajectories in narrow-resonance model for $\pi + \pi$ interactions, linearly rising, 23:25616
trajectories in narrow-resonance saturation of finite-energy sum rules, rising, 24:42946
trajectories in nuclear photoproduction of π and vector mesons in, isolation of, (T), 24:24308
trajectories in O(4) group for A_2, family of, 24:47439
trajectories in O(4) group, Feynman rules for family of, 24:47501
trajectories in O(4,2) model of strong interactions, 23:7165 (IC-68/88)
trajectories in $p + p \rightarrow \pi^+ + d$ interactions, rising, (E/T), 23:44660
trajectories in pseudoscalar meson—pseudoscalar meson interactions, restrictions on SU(3) mixing from exchanged, 22:48311
trajectories in $\pi + N \rightarrow \text{eta} + N$ interactions, Veneziano model for, 24:1606
trajectories in $\pi + N$ interactions, fermion, 22:20270
trajectories in $\pi + \pi \rightarrow \pi + \pi$ and $\pi + \text{rho} \rightarrow \pi + \text{rho}$ forward amplitudes, chiral symmetry for linear, 23:42654
trajectories in SL(2,C) algebra, 23:21178
trajectories in SL(2,C) symmetry for mass formula, 22:17996 (KFKI-1/1968)
trajectories in strong interactions and photoproduction in, Pomeranchuk decoupling from ordinary, 25:5348 (COO-264-562)
trajectories in Van Hove model, daughter, 22:20355
trajectories in Veneziano formula in, self-consistent condition for relations among coefficients for, 24:26518
trajectories in Veneziano model, 23:8853
trajectories in Veneziano model for high-energy interactions, analytical solution for dynamical calculations based on indefinitely rising, 24:15544
trajectories in Veneziano model for low-energy parameters for $\pi + \pi$ and $K + \pi$ interactions, 24:5290 (NYO-2262-TA-211)
trajectories in Veneziano model, degeneracy and recurrence of, 23:32708
trajectories in Veneziano model, quantization conditions for linear and nonlinear, 24:13184
trajectories in Wick—Cutkosky model, 23:49218
trajectories in Wick—Cutkosky model for repulsive collisions, 24:37876
trajectories in Wick—Cutkosky model of Bethe—Salpeter equation, daughter, 22:26705
trajectories in Wick—Cutkosky model, properties of, 24:35706
trajectories in, algebraic realization of families of indefinitely rising, 23:39849
trajectories in, analyticity and crossing symmetry for daughter, 21:42457
trajectories in, approximate duality for, 23:39697
trajectories in, asymptotic behavior of infinitely rising, 22:48384
trajectories in, Bethe—Salpeter equation for calculation of colliding, 25:7710
trajectories in, bootstrap models for, 22:46413
trajectories in, bootstrap relations for A_1 and π, 24:10743 (COO-264-522)
trajectories in, calculation of daughter, 22:5677
trajectories in, connection between s-channel resonances and t-channel, 23:1625 (SLAC-PUB-508)
trajectories in, coupled-channels model of self-consistent, 24:3782
trajectories in, crossing symmetry and infinitely rising, 23:15287
trajectories in, crossing-symmetric amplitude for, 23:27886
trajectories in, crossing-symmetric amplitudes for nonlinear, 23:37013
trajectories in, dual model for bootstrap of indefinitely rising, 24:15548
trajectories in, dual oscillator model for hadron total widths on leading, 25:43619
trajectories in, dynamic calculations of, 24:15683
trajectories in, dynamic groups for hadron mass spectra for linearly rising, 23:36979
trajectories in, dynamical calculations for rising, 23:32847
trajectories in, dynamical role of spin and fields describing sets of particles on, 21:33628
trajectories in, dynamical scheme based on rising, 22:20354
trajectories in, effect of Veneziano-type amplitude on degeneracy of, 23:46848
trajectories in, empirical regularities for baryon coupling on, 23:25631
trajectories in, existence of flat, 24:49493
trajectories in, factorization of N-point Veneziano amplitude for finite set of, 25:33853
trajectories in, finite-energy sum rules for secondary, 24:13193
trajectories in, formula fits to experimental particle masses for straight-line, 24:1565
trajectories in, Gell-Mann current algebra program relation with algebraic realization of families of indefinitely rising, 23:39848
trajectories in, generalized current algebra interpretation of, 22:5561
trajectories in, Green function for, 21:37931 (IC-67/63)
trajectories in, Green functions for, 22:1513
trajectories in, infinite-component wave equation for families of linearly rising, parallel, 24:40362
trajectories in, infinitely rising, 21:46600
trajectories in, interpretation by generalized current algebras on light cone, 21:15275 (UR-875-179)
trajectories in, Khuri theorem on asymptotes of, 21:33776
trajectories in, kinematic constraint on energy dependence of infinitely rising, 22:11651
trajectories in, l-plane branch point in multiperipheral bootstrap model for lower bound of, 23:30744
trajectories in, ladder approximation for parent and daughter, 22:46560
trajectories in, left-hand cuts in, 23:42757
trajectories in, mass dependence of, 25:14662
trajectories in, mechanisms for infinitely rising, 23:27895
trajectories in, mechanisms for linear rising, 23:30743
trajectories in, method for calculating, 21:33791
trajectories in, method for positions of indeterminacy points for, 23:32853
trajectories in, model with daughter and granddaughter, 22:35139
trajectories in, models for conspiracy between, 23:21173
trajectories in, phenomenological aspects of Regge, 21:21314
trajectories in, pole—cut relations for crossing, 24:37930 (COO-264-545)
trajectories in, r^{-4} potentials and finite-energy sum rules for indefinitely rising, 24:26532
trajectories in, relation between local commutation relations and, 21:42474
trajectories in, relation of mass splitting (Σ - Λ) to exchange-degenerate, 24:24387
trajectories in, relativistic model for rising and falling, 25:7716
trajectories in, resonance classification from, 23:18880 (NP-17766(Pt.3))
trajectories in, resonance crossing-symmetric confluent-hypergeometric function model with complex, 24:26519
trajectories in, resonance exchange corrections to crossing-symmetric rising, 23:7186
trajectories in, review of little groups and analyticity for families of, 22:44401 (KFKI-13/1968)
trajectories in, review of rho, π, and N, (E), 25:19988
trajectories in, superconvergent bootstrap of vector-octet and coupled vector and tensor, 23:23450
trajectories in, tests for $M = 1$ parity-doublet-type conspiracy for B, (T), 23:5615
trajectories in, Toller classification of, 25:41118
trajectories in, universality of vector and tensor, 23:19017
trajectories in, use for Feynman diagram relation with asymptotic contribution from two-body amplitudes, 22:7559(T) (CERN-Trans-67-5)
trajectories in, use of crossing symmetry for rising, 23:5688 (LPTHE-TH-68/18(Rev.))
trajectories in, use of dispersion relations and S-matrix in method for calculating, 21:9869
trajectories in, use of l-excitation scheme in model of indefinitely rising, 24:18306
trajectories in, validity of crossing symmetry for rising, 23:21168
trajectories in, variational method for calculating, 21:40284 (UCRL-17652)
trajectories in, Veneziano condition for, 23:37016
trajectories near threshold, method for calculating, 21:33790
trajectories near zero energy, review of behavior of, 24:5349
trajectories of A_2' for charge-exchange interactions, 24:49525
trajectories of A_2 for $\pi^- + p \rightarrow \text{eta} + n$ interactions, 22:50398
trajectories of baryon resonances, 22:50402
trajectories of baryons, asymptotic behavior of infinitely rising, 23:8813
trajectories of baryons, sum-rule constraint on, 22:46438
trajectories of Bethe—Salpeter equation in O(4) symmetry, weak-coupling limit of, 23:15277
trajectories of Bethe—Salpeter equation of Wick—Cutkosky model for unequal masses, low-energy perturbation method for, 24:6751
trajectories of bosons in scalar meson—scalar meson interactions and fermions in backward $\pi + N$ interactions, daughter, 24:24347
trajectories of bosons, exchange-degenerate and parallel, 24:13074
trajectories of bosons, use of $M = 1$ propagators for parity doubling of, 22:46409
trajectories of bound states of π—N systems in, Bethe—Salpeter equation in ladder approximation for, 25:20007
trajectories of coupled channel system in, bootstrap theory for eigen-, 21:31544
trajectories of definite 0(4) in, for forward production processes in $\pi + N$ interactions at high energies, 21:29540
trajectories of fermions in, bound-state solution of Dirac equation and rule for, 23:39690
trajectories of mesons, asymptotic behavior of infinitely rising, 23:8804
trajectories of N and Δ in $\pi^+ + p$ and $\pi^- + p$ interactions, exchange of, 22:20249
trajectories of N and Δ resonances, superconvergence sum rules from parametrization of, 22:20267
trajectories of nonstrange mesons, contribution to total cross section, 22:44424
trajectories with abnormal parity for 0^- meson interactions with nonet 0^+ mesons in Veneziano model, 24:24353
trajectories with approximate parity degeneracy for N^* resonances from $\pi + N$ interactions, 22:13765
trajectories with different slopes for $\gamma + N \rightarrow N + \pi^0$ interactions at high energies rho and ω, 24:3572
trajectories with left-hand branch lines for high-energy amplitudes, 24:3790
trajectories with natural and unnatural parity dominance in Veneziano model for $\pi + \omega \rightarrow \pi + \omega$ and $\pi + \text{rho} \rightarrow \pi + \text{rho}$ interactions, 24:3668
trajectories with singular residues for $N + N$ interactions in, 21:9810
trajectories with three-particle and multi-particle intermediate states in, 22:3538
trajectories with unnatural parity, strange-meson, 25:33726
trajectories, particle elementarity in, 21:42279
trajectories, phenomenological study of exotic resonances for exchange degeneracy relations for, 23:21093
trajectory amplitudes of meson interactions with mesons in quark model, inclusion of fermions in meromorphic amplitudes for ghost-free leading, 24:40397
trajectory and phase-shift analysis for N(1470), 23:15142
trajectory and residue function of A_2 in $\gamma + N \rightarrow \pi + N$ interactions, 22:44381
trajectory and residue functions for daughter poles for scattering amplitudes for spinless particles, general parametrization of, 23:15249
trajectory and residue functions for scattering, relation between, 22:20353
trajectory and residue functions of pion and conspirator trajectories in $\gamma + N \rightarrow \pi + N$ interactions, 23:7111
trajectory and residues functions for arbitrary-spin particles, general form of, 23:37014
trajectory bootstrap in relativistic quark model, analytic solution of linear, 24:3616
trajectory classification and behavior for π, 25:59460
trajectory classification from analyticity of helicity amplitudes and factorization, 23:1705 (LPTHE-TH-68/21)
trajectory classification in SO(4) symmetry for two-body backward scattering, 23:27834
trajectory classification in, factorization and analyticity constraints for, (T), 24:5348
trajectory conspiracy for arbitrary spins, 24:43065
trajectory conspiracy for unequal-mass scattering in, group-theoretic formulation for, 22:48379
trajectory conspiracy from renormalizable perturbation expansion for electron and photon scattering, test of, 22:37104
trajectory conspiracy in photoproduction of π at high energies, O(3,1) symmetry for, 23:3778
trajectory constraints from factorization of N-point dual amplitudes, 24:52224
trajectory constraints in Veneziano model, mass formulas from, 23:7192
trajectory contribution to backward $\pi^+ + p \rightarrow p + \pi^+$, $\pi^- + p \rightarrow p + \pi^-$, and $\pi^- + p \rightarrow n + \pi^0$ interactions in, N(1525), 25:1548
trajectory coupling to π - N, and K - N, and π - π systems in, P', 24:35656
trajectory derivative for two-body interactions of spinless particles, unitarity for positivity of absorptive part of operator for, 24:8620
trajectory dominance in SU(3) mass splitting, tensor-meson, 24:37720
trajectory doubling in dual resonance model for positivity of partial widths and s-wave scattering lengths for $\pi + \pi$ interactions in, rho, 25:40980
trajectory effects in $\gamma + N \rightarrow \gamma + N$ forward Compton interactions at high energies in, test of vector dominance model from, 25:22730
trajectory exchange degeneracy from SU(2) x SU(2) current commutation relations and PCAC, 24:8624
trajectory exchange degeneracy in $s \rightarrow u$, $u \rightarrow s$ crossing-related forward meson interactions with baryons, (rho,A_2) and (K^*,K^{**}), (E), 24:10759 (BNL-14222)
trajectory exchange in baryon—meson inelastic interactions, 22:1439
trajectory exchange in crossing-related baryon interactions with pseudoscalar mesons at high energies, test of exchange degeneracy in, 23:46740
trajectory exchange in $K^- + p \rightarrow \pi^- + \Sigma^+(1385)$ and $\pi^+ + p \rightarrow K^+ + \Sigma^+(1385)$ interactions, (T), 24:49502
trajectory exchange in meson interactions with baryons at high energies, N and Δ, 23:27815
trajectory exchange in meson—baryon interactions, wrong-signature sense point for Δ, 23:32747
trajectory exchange in model for studying $\pi^- + p$ interactions at 3 to 8 GeV/c, Δ-, 23:8744
trajectory exchange in $\pi + p$ and $K + p$ interactions, strange, 24:15583
trajectory exchange in $\pi^+ + p \rightarrow \text{eta}^0 + \Delta^{++}$ interactions, test of A_2, (E/T), 25:33733
trajectory exchange in $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ interactions at 6 GeV, model of double, (E/T), 24:49330
trajectory exchange in $\pi^- + p \rightarrow \pi^- + \pi^- + \Delta^{++}$ interactions at 6 GeV/c, double-Regge, (E), 24:15486
trajectory exchange in $\pi^- + p$ interactions at 3.25 GeV/c in hydrogen bubble chamber, (E), 22:48241
trajectory exchange in Regge fits to backward differential cross sections for $K^+ + p$ interactions, 24:21986
trajectory families at nonvanishing energy, SL(2,c) algebra for, 23:1719
trajectory families for $\pi + N$ interactions, analyticity and broken SL(2,C) symmetry for, 23:5631
trajectory families in, review of little groups and analyticity for, 23:30832
trajectory families of octets of pseudoscalar and axial-vector mesons, classification of conspirator, 22:29680
trajectory family for $\gamma + p \rightarrow \pi^+ + n$ interactions at high energies, quantum number for, (T), 24:5348
trajectory for dibaryon systems, 24:15602
trajectory for elementary quark, effect on high-energy interactions, 23:15068
trajectory for exchange of 27-plet in t-channel for convergence relation for meson—baryon interactions, 21:31600
trajectory for hadron electromagnetic mass differences, review of theory for, 21:42302
trajectory for hadron mass relations in, Goldstone boson on f', 25:25396
trajectory for $I = 1$, $Y = 0$ meson resonances, daughter, 22:5567
trajectory for I/sup G/ = 0, J/sup P/ = 2^+ F(1085) resonance, assignment of P'', 22:32136

  trajectory for impact-parameter amplitude, direct-channel, 25:17599
  trajectory for $K^+ + n \rightarrow K^0 + p$ interactions above 2.3 GeV/c, rho', 22:39413
  trajectory for $K^- + p \rightarrow K^0 + n$ and $\pi^- + p \rightarrow \pi^0$(eta^0) + n interactions below 20 GeV/c, rho', 22: 39413
  trajectory for $K^+ + p$ backward elastic interactions at 2 to 7 GeV/c, exchange-degenerate A-, 23:25636
  trajectory for large-angle $p + p$ interactions, model with linear, 23:39748
  trajectory for limit of vanishing π mass, linear, 25:1639 (AD-705548)
  trajectory for meson (ω), meson (π^0) production from photon reactions with nuclei at high energies for, 23: 51891
  trajectory for $\omega + \pi \rightarrow \pi + \pi$ interactions, bootstrap of rho, 24:40372
  trajectory for polarization in elastic and charge-exchange $\pi + N$ interactions, Ball—Zachariasen, 25:47877
  trajectory for $\pi + N$ interactions, vacuum, 25:9785 (DESY-70/55)
  trajectory for $\pi + \pi$ interactions in Reggeized absorption model, effective, 23:5612
  trajectory for π, current—algebra requirements for Toller quantum number, 22:50377
  trajectory for $\pi^- + p \rightarrow \pi^0 + n$ interaction, doubled rho, 24:42968
  trajectory functions for near-forward scattering, direct- and crossed-channel self-consistency for high-energy behavior of, 24:8746
  trajectory in Bethe—Salpeter equation in ladder approximation of lambda phi^3 theory, daughter, 23: 10849
  trajectory in field theory model, daughter, 22:20316
  trajectory in field-theory model, daughter, 22:44493
  trajectory in model amplitude for elastic interaction of neutral scalar bosons, unitarity constraint on, 25:1513
  trajectory in multiperipheral model, self-consistency conditions for, 23:32716
  trajectory in s-channel contribution to $\pi^+ + p$ interactions through 90°, Δ/sub delta/, 22:9590
  trajectory in scattering amplitudes at very high energies, leading, 22:41868
  trajectory in, existence and implications of class III π conspiracy, 22:50372
  trajectory in, high-spin dual vertex for total widths on leading, 24:52056
  trajectory in, linearly rising rho, (T), 24:45602
  trajectory in, Pomeranchuk trajectory duality with W, 25:53379
  trajectory in, universal width for particles on, 23:25617
  trajectory intercept in $\pi + N$ interactions in, consistency conditions from P, 22:24672
  trajectory intercepts for Veneziano model in, for meson spectrum, 24:45508 (IC-70/85)
  trajectory interference in backward elastic $K^+ + p$ interactions, dip cancellation by, 23:25635
  trajectory linearity in Veneziano representation for exchange quasipotential for cross sections of $\pi^- + p$ and $\pi^+ + p$ interactions at high energies in, 25:1527 (JINR-E2-5226)
  trajectory near $u = 0$ in $K + N$ interactions, fixed-u zero-moment finite-energy sum rules for coupling of, 24:3658
  trajectory of A_2 for $\pi^- + p \rightarrow$ eta + n interactions, dipole, 23:36941
  trajectory of A_1, cut models for dips associated with, 24: 49506
  trajectory of external particles from bootstrap constraints on, 22:37133
  trajectory of N/sub α/, residue zeros for parity-degenerate, 23:18914
  trajectory of Ω^- in anti $K\Xi$ system in new strip approximation, 23:36934
  trajectory of π as bound state of anti NN system, O(4) symmetry for, 23:13095
  trajectory of π as bound state of N anti N system, O(4) symmetry for, 23:15099
  trajectory of π in O(4) group formalism of $\pi + p$ and N + anti N interactions, 24:18169
  trajectory of π, O(4) symmetry model for, 23:3708
  trajectory of rho in quark model, 23:25613
  trajectory of rho, phenomenological model of, 22:15780
  trajectory of rho—A_1, dynamics at high spin of exchange-degenerate, 23:3720
  trajectory parameter for A_2, ghost-eliminating mechanism and photoproduction sum rule for, 22:24631
  trajectory parameters for f^0 from superconvergence dispersion sum rules for $\pi + N$ interactions, 22: 26654
  trajectory parameters for nucleons in system with massless pions, 24:30528
  trajectory parameters for scattering lengths for $\pi + \pi$ interactions, 24:49476
  trajectory parameters from sum rules for $\pi + p$ interactions, P and P', 22:34996
  trajectory parameters of ω from $K^0_2 + p \rightarrow K^0_1 + p$ interactions at high energies, 22:44426
  trajectory parametrization for photoproduction interactions, 23:18858
  trajectory slopes and residues for spin-1 and spin-0 system in O(4) symmetry and Bethe—Salpeter model, 25:7719
  trajectory slopes for two-particle elastic scattering, 22: 15855
  trajectory slopes in, ghost states in Veneziano model for, 23:49139
  trajectory slopes in, universality of, 22:3550
  trajectory splitting in model for meson—nucleon and nucleon—nucleon interactions at high energies, 21: 27342 (JINR-P2-3251)
  trajectory with finite asymptotic phase for resonances, 25:59451
  trajectory with finite asymptotic phase, characteristics of, 25:31029
  trajectory with isospin 2 in multiperipheral model, 25: 33707
  trajectory with no physical particle, 23:37025
  trajectory-exchange model for differential cross sections of photon reactions (γ,rho^0) with carbon-12 at 4.0 to 16.0 GeV in, P and P', 25:22739
  trajectory-exchange model for $\gamma + p \rightarrow$ rho$^+$ + n, rho$^+ \rightarrow \pi^+ + \pi^0$ interactions, 22:44360
  two-particle correlations from $M = 0$ Lorentz poles in, azimuthal, 25:53380
  unitarity relation in, introduction of parallel daughter trajectories for, 25:17594
  use for amplitudes of electromagnetic interactions, 22: 9553
  use for analysis of nuclear scattering, (T), 23:15356
  use for analysis of $\pi + N$ charge-exchange interactions, finite-energy sum rules in, 22:20254
  use for analysis of $\pi^- + p \rightarrow$ eta^0 + n interactions, 21: 27376
  use for analyzing rho$^-$ production near backward direction in $\pi^- + p \rightarrow p$ + rho$^-$ at high energies, 23: 10824
  use for chiral SU(2) algebra, 21:33684
  use for deriving superconvergence sum rules for photoproduction, 21:21167
  use for determining high-energy scattering amplitudes in cases with exchanged particle with spin, 21:27456
  use for dynamics of strong interactions, 22:24623 (LPTHE-TH-222)
  use for general treatment of current algebra, 22:3298
  use for high-energy scattering with relatively large momentum transfer, 22:15816
  use for hyperon nonleptonic decays, 22:34999
  use for internal symmetry groups, 21:37871
  use for meson-baryon charge-exchange scattering cross sections, 23:5626
  use for N*(1518) production from $\pi + N$ interactions, 21:29536
  use for partial-wave analysis of $\pi + N$ interaction amplitudes, 23:18908
  use for pseudoscalar and vector meson interactions, 21: 37905
  use for $\pi^- + p \rightarrow \pi^0 + n$ and $\pi^- + p \rightarrow \pi^- + p$ interactions at high energies, 22:15796
  use for $\pi^- + p$ and $\pi^+ + p$ backward elastic interactions at 2.3 to 6.0 GeV/c, 21:35264 (COO-1112-107)
  use for π—π interactions, compatibility of strip approximation in bootstrap calculations with, 21:33697
  use for rho$^-$ production from $\pi^- + p \rightarrow p$ + rho$^-$ interactions at 4.0 and 8.0 GeV/c, model for, 22:9588 (RLO-2041-1)
  use for rho$^+$ production from $\pi^+ + p \rightarrow$ rho$^+$ + p interactions at 4.0 and 8.0 GeV/c, model for, 22:9588 (RLO-2041-1)
  use in analyzing $\gamma + N \rightarrow \pi + N$ and $N + N \rightarrow N + N$ interactions, Lorentz invariance in, (T), 22:50321 (UCRL-18377)
  use in bootstrap calculations based on duality in, 23: 7136
  use in enhancement theory of SU(3) symmetry breakings, 22:44464
  use of multi-Regge hypothesis for multiperipheral bootstrap model, 23:15074
  use of multi-Regge model for uncorrelated particle production from $p + p$ interactions at high energies, 22:13772 (UCRL-17980)
  use of SU(3), for relations among $\pi + N$ and $K + N$ charge-exchange differential cross sections, 21:29557
  use to fit polarization data in $K^- + p$ elastic scattering at 2 to 2.4 GeV/c, (T), 23:3729 (LPTHE-TH-68/30)
  use with current algebra for hadron elastic interactions above 4 GeV/c, 21:42337
  use with current algebra for isovector anomalous magnetic moment of nucleons, 22:3332
  use with O(4) symmetry for anti $N + N \rightarrow \pi + \pi$ interactions, 21:42426
  vacuum pole exchange in $\pi + N$ interactions, use of continuous moment sum rule for P", 22:48317
  vacuum Regge poles and cuts, determination of, 22: 46437
  Van Hove model for hyperon nonleptonic decay in, 25: 14637 (SU-1206-238)
  Veneziano amplitude in asymptotic, explicitly crossing-symmetric generalization of quasi-potential equation with two-body unitarity cuts for, 24:5347
  Veneziano equation for final-state interactions in 3π decays and annihilations, (T), 23:8801
  Veneziano formula for N external reggeons, 24:45580
  Veneziano generalized formula in, M-loop, 24:49366
  Veneziano N-point function with quark spin for mesons and baryons in, 24:37737 (CALT-68-260)
  vertex function from multifactorizations of N-point amplitude in dual-resonance model, four-Reggeon, 24: 47516
  vertex functions for two-body scattering amplitudes from complex helicity and Sommerfeld—Watson transformation of expansions of function defined on SO(3) and SO(2,1) symmetry in, 25:22860
  vertex functions in, Toller ω dependence two-Reggeon—one-particle, 23:27888
Registers
    see Counting Devices
Regulators, Current
    see Current Regulators
Regulators, Frequency
    see Frequency Regulators
Regulators, Level
    see Level Regulators
Regulators, Pressure
    see Pressure Regulators
Regulators,-Voltage
    see Voltage Regulators
Reindeer
    see Deer
RELATIVE BIOLOGICAL EFFECTIVENESS
  book: Neutrons in Radiobiological Experiments, 21: 38869
  book: The Relative Biological Efficiency of Radiation. Radiation Time Factor, 23:50884
  calculation for 5.2 MeV/n carbon-12 ions in chlorella, 25:16375(T) (JPRS-52121, pp 58-62)
  calculation for aberrant effects of fast neutrons and x radiation on Tradescantia stamen hairs in relation to dose, 25:44965
  calculation for cataractogenic effects of 14-MeV neutrons on eyes of rabbits, 25:27027
  calculation for cataractogenic effects of protons on eyes of rabbits, 25:49283 (CEA-CONF-1782)
  calculation for effects of 14.6 MeV neutrons on survival of beagle dogs, 25:32552
  calculation for effects of 16.5-MeV fast electrons on mice, 25:32560
  calculation for effects of californium-252 on Chinese hamster ovary cells in vitro, 25:49284 (CONF-710402-(Vol.2), pp II.29-36)
  calculation for effects of fast neutrons and x rays on lens opacity of mice, 24:7989 (BNL-14215)
  calculation for effects of fast neutrons of different energies on cultured human kidney cells, 22:49211
  calculation for effects of γ rays and neutrons on rabbits, 22:582
  calculation for effects of helium ions and x rays on mouse lymphoma cells, 24:9911
  calculation for effects of high-energy protons on animals and microorganisms in comparison to γ and x rays, 24:6155
  calculation for effects of neutrons on survival of mice, 25:37865 (ANL-7770, pp 26-47)
  calculation for effects of neutrons on tail vertebrae of rats, 24:2808
  calculation for effects on hair follicles of rat skin, α and electron, 22:47633
  calculation for effects on mice, fast neutron, γ, and x, 22:40891
  calculation for effects on skin, comparison of electron and x, 23:33888
  calculation for fast neutron, fission neutron, and γ-radiation effects on survival of swine, 25:16317 (ORO-678, pp 51-7)
  calculation for fast neutrons in malignant and normal tissues, 24:7972
  calculation for fast neutrons relative to 250 kV x rays, 25:19092
  calculation for γ and x radiation, effects of dose rate on, 25:16126 (AD-713557)
  calculation for high-energy electrons in biological dosimetry of high-energy materials, model for, 22: 31084
  calculation for mutagenic effects of fast neutrons and x radiation on Tradescantia, 24:7797 (BNL-14118)
  calculation for neutron and x ray effects on hamster cells and root growth of Vicia, 24:6144
  calculation using hit theory and microdosimetry, 22: 31203 (BNWL-SA-1753)
  charged particle, effects of LET on, 22:6870(T) (NP-tr-1561)
  charged particle, in cultured mammalian cells, effects of LET on, 22:38317
  charged particle, in radiotherapy, 21:10967
  comparison for 150 MeV protons and 2 MeV x rays in relation to survival of monkeys, 23:31897 (AD-681465)
  comparison for 20-MeV electrons and 21-MeV photons in relation to survival of mice, 22:38277
  comparison for 20-MeV electrons, γ, and 20-MeV photons in relation to effects on survival of bacteria and yeasts, 22:38503
  comparison for α particles and electrons in relation to hair follicle damage and tumor induction in rats, 23: 6588
  comparison for α particles and high-energy electron beams, 22:31274
  comparison for α, β, and γ radiation for induction of chromosome aberrations in Chinese hamster liver cells, 25:29483 (LF-43, pp 246-53)
  comparison for α, β, charged particles, protons, and x radiation for induction of strand breaks in DNA, 25: 6634 (CONF-691106-, pp 153-72)
  comparison for bremsstrahlung and x radiation in mice, 24:23361
  comparison for β and γ effects on adults, eggs, and juveniles of Collembola, 23:20328 (ORNL-TM-2466, pp 40-6)
  comparison for β from tritium-labeled water with cobalt-60 and radium γ in HeLa cells and Vicia faba root cells, 22:40874
  comparison for β, fast neutron, and x radiation effects on hematopoietic system of rabbits and rats, 22:40822(T) (JPRS-44070, pp 1-9)
  comparison for β, γ, and neutrons, for carcinogenesis in rabbits, 24:6110
  comparison for conventional and low-energy x radiation in relation to survival of Escherichia coli, 22:38502
  comparison for effects of charged particles on bacteria, 22:23683 (UCRL-17481, pp 138-44)
  comparison for effects of monoenergetic neutrons on lens tissues of mice, 22:49284 (NYO-2740-5, pp 201-66)
  comparison for effects of monoenergetic neutrons on chromosomes of Drosophila melanogaster, 22:49284 (NYO-2740-5, pp 201-66)
  comparison for electron beams and 200 kV x rays, 23: 12099
  comparison for electrons and γ rays, 22:38348
  comparison for electrons and x rays in relation to effects on survival of bacterial cells and cultured mammalian cells, 22:45729 (UCSF-10-P-2-52)
  comparison for external and internal radioisotope emitters, 22:23651
  comparison for fast neutron and x-radiation effects on reproductive capacity of L cells, 25:32568

comparison for fast neutron, proton, and x radiation in relation to genetic effect on Crepis capillaris, 22:21488
comparison for fast neutron- and gamma-radiation in peas, 22:21628
comparison for fast neutron-, γ-, proton-, and x-radiation in relation to genetic effect on bone marrow and testes of mice, 22:21478
comparison for fast neutrons and x radiation, for effects on reproduction of cultured mammalian cells, 25:6761 (CONF-691106-, pp 230-43)
comparison for fast neutrons and x, on gonads of mice, 23:6570(T) (NSJ-tr-107)
comparison for fast neutrons produced by ^{9}Be(^{3}H,n)^{11}C reaction, γ radiation, and high-energy x radiation, 22:19370
comparison for fast neutrons produced by ^{9}Be(^{3}He,n)^{11}C reaction and by T(d,n)^{4}He reaction, 22:19370
comparison for fission neutron and x ray effects on weight of testes of mice, 22:28274 (ANL-7278, pp 250-82)
comparison for fission neutrons and γ effects on intestine of mice, 22:49551
comparison for fractionated doses of fast neutron- and x radiation for effects on morphology and survival of cells in normal tissues and sarcomas in rats, 22:49419
comparison for γ and x radiation for induction of chromosome aberrations in human lymphocytes in vitro, 24:21115
comparison for γ radiation, fission neutrons, and 14 MeV neutrons in swine, 25:6695 (CONF-691106-, pp 116-28)
comparison for γ radiation, neutrons, and x radiation for inactivation of mammalian cells, effects of LET on, 24:23377
comparison for γ, high-energy proton, and x radiation in relation to dose distribution, 22:38476
comparison for high-energy bremsstrahlung and x, 22:49642
comparison for high-energy electrons and x rays in relation to effects on neoplastic and normal tissues of man, 22:38276
comparison for induction of cataracts in rats, γ and x, 22:40854
comparison for mutagenesis in Tradescantia exposed to low level external sources or grown in monazite sands, 24:41857
comparison for mutation induction in Drosophila, protons and x, 21:22739
comparison for protons and x rays in relation to lethal effects on mice, 23:6589
comparison for tritium β and continuous low-dose γ, in rats, 25:593
comparison in bone marrow and tumor cells, for γ, protons, and x, 25:579
comparison in flour beetles for cobalt-60 γ and neutron radiation, 23:45877 (ANL-7535, pp 109-12)
comparison in HeLa cells, effects of age and dose on γ and x, 22:6878
comparison of 14 MeV monoenergetic neutron and x, for HeLa and lymphoma cells, 22:45430
comparison of 15 MeV electron and 200 kV x ray, in mice, 21:34788
comparison of 15 MeV electron and 200 kV x rays, in Ehrlich ascites tumors of mice, 21:34787
comparison of accelerated particle and x, in Neurospora crassa, 22:12835
comparison of α, proton, and x, in mice, 22:12929
comparison of β, γ, and x, for mortality response in HeLa cells, 22:10794
comparison of californium-252 mixed gamma and neutrons with radium-226 gamma, on cultured cells, 25:37809
comparison of cesium-137 γ and tritium oxide on rats, 25:13551
comparison of cobalt-60 γ and x rays in relation to use for radiotherapy, 22:15024
comparison of electron and x ray, for effects on antigenicity of Dictyocaulus larvae, 24:50785
comparison of electron and x-ray, in mice, use of spleen weight for, 22:15090
comparison of electron, γ, and x, on rate of mitosis in tumor cells, 22:12763
comparison of electron, neutron, and x for effects on growth of barley roots, 23:20436
comparison of fast neutron and γ, in barley seeds, 22:31279
comparison of fast neutron and x rays for effects on rabbit lens, 22:51966
comparison of fast neutron and x, on mutagenesis of spermatogonia of mice, 22:12839
comparison of fast neutrons, fission neutrons, and heavy particles with cesium-137 and cobalt-60 for mutagenic effects in plants, 24:34255
comparison of gamma and fast neutron, for lethality of mice, 25:24368
comparison of gamma, mesons (π^-), and x radiation, 25:21711
comparison of γ and meson (π^-), for effects on proliferation of lymphoma cells in mice, 22:33903 (ORO-3343-1, Paper 4)
comparison of γ and neutron for effects on HeLa cells, guinea pigs, mice, rabbits, and rats, 24:23362
comparison of γ and supervoltage x, for effects on HeLa cells, 22:45596
comparison of γ and thermal neutron, for chromosome aberrations in Nigella damascena, 22:45484
comparison of γ and x for effects on human skin, 25:13583
comparison of γ and x radiation in relation to therapy of breast neoplasms in man, 22:15029
comparison of γ and x, for effects on mitotic delay and survival of human kidney cells, 23:41233
comparison of γ and x, on survival of rats, 22:51951
comparison of γ, neutron, and x radiation, for colony-forming units in mouse bone marrow, 25:42601
comparison of γ, neutron, proton, and x, for spermatogonial killing in mice, 21:32738 (ORNL-P-3085)
comparison of γ, proton, and x radiation, in dogs, 22:23652
comparison of heavy particle and x, in human kidney T1 cells, 22:12825
comparison of heavy particle and x, in yeasts, 22:12836
comparison of meson, muon, neutron, and proton, in corn, 22:12838
comparison of neutron and x ray, for effects on colony-forming ability of HeLa cells, 23:35815(R) (NYO-3267-6)
comparison of neutron and x ray, for mutagenic effects in Drosophila, 23:16257 (NIRS-7, pp 55-65)
comparison of neutron and x-ray, in mice, use of chromosome aberrations for, 22:25817
comparison of, for 14 MeV neutrons, 60 MeV protons, and 300 kVp x rays in relation to tumor induction in mice, 25:6771 (CONF-691106-, pp 255-67)
comparison of, of fast neutrons with γ and x rays for use in tumor therapy, 21:20248
comparison of, of gamma radiation, neutrons, and protons for changes in nervous activity in mice and rats, 21:6436
comparison of, of x rays with dose distribution models, 21:4881
correlation with microdosimeter experiments, 21:41275 (BNWL-SA-1003)
dependence on quality factors, 22:38316
derivation for californium-252 in relation to radium-226, 24:39574
determination for 15 MeV electrons, effects of skin reactions of man on, 22:51897
determination for 18 to 35 MeV electron beams, 21:26648
determination for 5 MeV fast electrons, effects of type of tissue on, 22:51884
determination for 90-MeV mesons (π^-) on lymphoma ascites tumor cells in mice, 22:31220
determination for alpha and medium-heavy components of solar particles, 21:24408(R) (N-66-24123)
determination for biological materials, effects of dose rate and LET on, 22:8523 (CONF-670305-, pp 280-8)
determination for delta-electrons in deep tissue, 22:51589
determination for effect of neutrons on intestines of mice, 22:49557
determination for effects on thymus of rats, fast neutron, γ, and x, 22:40844
determination for electron, γ, and x radiation effects on mitotic activity in regenerating liver cells of rats, 22:8463
determination for electrons and photons as a function of depth in Escherichia coli and yeast, 23:6472
determination for electrons in cultured human cells, effects of depth on, 23:6471
determination for electrons, effects of dose and dose rate on, 22:51695
determination for electrons, review of, 23:50801
determination for fast electrons, factors affecting, 22:51883
determination for fast neutrons in cultured human lymphocytes, 22:28431
determination for fast neutrons in mammalian cells and tissues as function of dose, dose rate, and tissue type, 25:6762 (CONF-691106-, pp 244-54)
determination for fast neutrons, review of, 22:40822(T) (JPRS-44070, pp 1-9)
determination for galactic cosmic rays in tissue, 22:4598 (AD-648299)
determination for genetic effects of neutrons on animals and plants, review of, 24:48507
determination for γ and fast neutron effects on mice and rats, 23:48210
determination for γ and x radiation effects on chromosomes in pollen of Tradescantia bracteata, 22:12832
determination for heavy ions at 5 to 100 keV, 22:29271
determination for high energy protons, 23:48171
determination for ionizing radiations in animal tissues in relation to LET, 23:8059
determination for ionizing radiations in relation to distribution of local energy densities, 22:38318
determination for monoenergetic neutron effects on Tradescantia occidentales, 22:43300 (AERE-PR/HPM-12)
determination for radiations in E-1 hole of Kyoto Univ Reactor, 22:47501 (NP-17136)
determination for x radiation effects on bone marrow of mice, 15 MeV betatron and 200 kV, 22:40925
determination in barley seeds, fast neutron and γ, 22:31279
determination in biological materials for 20 MeV electrons, effects of depth on, 23:50844
determination in Ehrlich tumor cells, electron, 21:24590
determination in Ehrlich tumor cells, neutron, 21:24590
determination in man under battlefield conditions, 22:25861(T) (JPRS-39391)
determination in phantoms using HeLa cells at different depths, 20 MeV electron, 23:50495
determination in rats, electron and x, 22:33943
determination in rats, use of iodine-131 labeled polyvinyl pyrrolidinone for fission neutron, 21:36685 (BNWL-SA-1156)
determination of 120 MeV proton, in rats, 22:23668
determination of 14.1 MeV neutron, for induction of dominant lethal mutations in mice, 22:47501 (NP-17136)
determination of cobalt-60 γ, proton, and x radiation effects on testes of mice, 22:51908
determination of fast electron, in sperm of Drosophila, effects of oxygen on, 22:40615(R) (EUR-3889)
determination of fast neutron and x radiation, for loss of reproductive integrity of bone marrow CF cells, 22:49583
determination of fast neutron and x, for mutation induction in Drosophila, 21:36542
determination of fast neutron, for genital atrophy in mice, 21:24554
determination of fast neutron, in loach sperm, 21:22755
determination of γ and x-ray, for chromosome aberrations in human leukocytes, 22:51596
determination of γ radiation, in loach sperm, 21:22755
determination of mesons (π^-), for polyploidy induction in mammalian cells, 22:31051
determination of negative pion, for effects on tumor cells, 22:33905 (ORO-3343-1, Paper 5)
determination of photon and x-ray, in seeds of Vicia faba, 22:40960
determination of pion-beam, 22:8599 (CONF-670305-, pp 346-8)
determination of proton, in dogs, mice, and rats, 22:23670
determination of proton, in plants, 22:36273
determination of thermal neutron, in HeLa cells, 22:51673(R) (NYO-3267-5)
determination of, of fast neutrons in man-rated SNAP vehicles, 21:6512
determination of, of γ rays and heavy ions in Arabidopsis thaliana, 21:11127
determination of, of radiations, methods for, 21:12875
determination of, of various radiations on T2 bacteriophage as free phage, 21:11139(R) (ORO-2832-47)
determinations in cultured cells, normal tissues, and tumors of mammals, 22:40869
effects of LET on, of cosmic radiation, electromagnetic waves, and particulate radiation, mathematical model for, 21:6408
effects of LET on, of γ and neutrons, 21:12693
effects of LET on, of protons and x radiation, 21:13016
effects of spectra of primary and secondary electrons at different depths in biological materials on, of fast electrons, 21:13363
effects of, on calculation of radiation dose arising from solar flux, 21:6514
effects on differences in track density, 21:28337 (BNL-11358)
effects on incidence of opacification in lens of eye of mice, fast neutron and x, 21:32733 (BNL-11477)
effects on repair mechanisms in irradiated cells, 24:44634 (EUR-4452, pp 51-81)
effects on response of human body to whole-body exposure to radiations, 21:30904
effects on tumor growth, comparison of fast neutron with x radiation, 21:24628
electron and x, for spleen colony formation in mice, 23:10038
electron, review of variables in, 21:30906
estimation for fast neutrons in mice, methods for, 22:36375
estimation in human cells, use of stopping power theory for, 22:8637
estimation of, in mice, for fission neutrons in proportion to cobalt-60, 21:8943
evaluation for 15 MeV neutrons, 24:50852
evaluation for γ rays and protons using chromosome aberrations in mouse corneal epithelium, 21:16439(T) (JPRS-38272, pp 356-7)
evaluation for γ rays and protons using chromosome aberrations in plants grown from exposed seeds, 21:16519(T) (JPRS-38272, pp 371)
evaluation for ionizing radiations on cultured human cells, effects of LET and OER on, 22:8593 (CONF-670305-, pp 51-62)
evaluation for mixed gamma-neutron radiations using acute mortality response in monkeys, 21:28584 (AFRRI-SP-66-23)
evaluation for protons and x rays using blood picture and life spans of rats, 21:16440(T) (JPRS-38272, pp 430-1)
evaluation for radiotherapeutic studies of malignant tumors in animals, 24:32123
evaluation of α particle, for tumor induction in rat skin, 21:20319(R) (NYO-2785-1)
evaluation of electron, for tumor induction in rat skin, 21:20319(R) (NYO-2785-1)
evaluation of, for γ rays and protons radiation using potato seeds, 21:16517(T) (JPRS-38272, pp 7-8)
evaluation of, for γ rays and protons using mitotic index in rat bone marrow cells, 21:16444(T) (JPRS-38272, pp 154-5)
evaluation of, for γ rays and protons using yeast reproduction, 21:16532(T) (JPRS-38272, pp 77-8)
evaluation of, of γ rays and protons using development of potato plants from irradiated tubers, 21:16518(T) (JPRS-38272, pp 148-9)
evaluation of, of γ rays and protons using mitotic index in cultured human cells, 21:16533(T) (JPRS-38272, pp 120-1)
gamma for determining volume of cell nuclei, 21:45521
high-energy proton, in rats, effects of secondary emission on, 23:903 (CEA-R-3447)
interpretation of, relation of collision theory to, 22:12845 (ORNL-4215)
measurement by survival in cultured mammalian cells, 21:45838
measurement for 20-MeV electrons in bacteria and yeasts, 22:38278
measurement for conventional and ultrahigh dose rates, x, 21:39511
measurement for effects of 14 MeV neutrons on HeLa cells, 23:41257
measurement for inactivating and mutagenic effects in phage Tl, 24:50830
measurement for neutron effects on enzymes of mice, 23:20399
measurement for radiations with energies above 10 GeV, 22:12857
measurement in animal and plant cell test systems for cobalt-60 γ rays, 380-MeV protons, and x rays, 23:35853

measurement in carrots following seed exposure to cobalt-60 γ rays and 630-MeV protons, 24:27720
measurement in Escherichia coli and mice, effects of absorbed dose and LET on proton, 22:8519 (CONF-670305-, pp 155-73)
measurement in pea seeds, γ and proton, 22:481
measurement in skin of mice, pigs, and rats, α, deuterons, fast neutrons, and x, 22:8596 (CONF-670305-, pp 128-42)
measurement in x rays in relation to mitotic activity of corneal epithelium, 22:17044
measurement of neutron, in mice, 21:45791
neutron, in plants, agricultural application of, 21:22783
nomenclature for expressing, 22:38288
physical aspects of, of radiation, review of, 22:23530
quality factor for radiation, definition and calculation of, 25:39859 (INR-1174)
radiation dose dependency of mammalian, fast neutron, 24:51068
radiation dose rate effects on, in mice, whole-body fast neutron and γ, 22:36374
radiation for HeLa cells, electron, 22:375(R) (NYO-3510-3)
relation of chromosome aberrations, LET, OER, and cell death to, of protons and soft x-rays, 22:25818
relation to absorbed radiation dose, 25:44805
relation to dose in biological radiation effects, 25:49105
relation to LET for effects of ionizing radiation on cells, 24:44582 (EUR-4452, pp 83-105)
relation to LET, determination of, for α, γ, deuteron, neutron, and x radiations, 21:13015
relation to linear energy transfer, stochastic equations for, 25:21587
relation to survival curves, microdosimetry studies of, 24:44484 (EUR-4452, pp 737-60)
review of tritium-labeled water, in relation to ICRP recommendations on quality factor, 22:51632
survey of, 21:26468
use for evaluation of radiation response of space personnel, 22:6847
use in deriving radiation protection standards in Belgium, 21:26430
use in radiobiology, role of ion charge and velocity in interpretations for, 23:38575
values for 0.43-MeV monoenergetic neutrons in relation to effects on somatic mutations and loss of reproductive integrity in Trandescantia stamen hairs, 25:11313
values for 15 MeV electrons in relation to effects on lymphoid tissues, 25:8780
values for 80 to 430 keV neutrons in relation to effects on color and length of Tradescantia stamen hairs, 25:47033
values for argon ions, carbon ions, helium ions, lithium ions, neon ions, and oxygen ions in relation to growth inhibition, mutagenesis, and tumorigenesis in Arabidopsis thaliana seeds, 25:8800
values for α particles and recoil lithium ions in relation to survival of HeLa cells following (n,α) reaction in cells, effects of boron-10 content on, 25:8745
values for meson (π^-) and (π^+), use of spermatogonial survival in mice to estimate, 25:52228
values for neutrons, 25:8756 (NYO-2740-7, pp 154-217)
values for neutrons in γ-irradiated wheat leaves, 25:8801
values for neutrons in relation to chromosomes in corneal epithelium of mice, 25:11018
values for x-radioinduced inhibition of radish seed germination, effects of very high dose rate on, 25:55350
variations with OER in fast neutron-irradiated tissue-equivalent phantoms, 24:44479 (EUR-4452, pp 198-218)
x ray, for determining volume of cell nuclei, 21:45521

RELATIVISTIC STAR CLUSTERS
core-halo density distribution in isotropic, (T), 24:35136
existence in quasars and galactic nuclei, (T), 24:32605
gravitational-wave emission from, (T), 25:30240
model of, solution of Plummer's, (T), 25:30066
properties of, (T), 24:32605
stability against radial perturbations of isotropic, (T), 24:35136
stability of, (T), 25:30066
stability of, with arbitrarily large central redshifts, (T), 24:35134

RELATIVITY THEORY
see also Gravitation
acceleration of particles in, exact solution for uniformly, 21:37636
action functional as path length in general, for closed empty universes, 25:9881
action principle in general, quadratic, 23:32832
algebra for Minkowski space—time, 21:21127
analysis of Einstein—Bohr experiment, 21:21115
analytic continuation and global theorems in, 21:7418
angular momentum and momentum of extended bodies in general, 24:15676
angular momentum and torques of system at equilibrium in special, 23:39817
angular momentum in general, Kerr metric for, 22:44494
anticollapse mechanism in quasars and galactic clusters, 21:36988
appearance of rotating configuration as viewed from infinity, 21:27266
application of multitemporal, to quasars and elementary particles, 21:17015
application of special, to interpretation of cosmic radio sources, (T), 23:25045
applications of theory of parallel distributions, 21:7407
aspects of relativistic statistical mechanics, 23:44573
asymmetric nonstatic deviation from Minkowski metric, (T), 23:51344
axiomatic foundations of special, 25:56562
axisymmetric electromagnetic radiation in, first approximation, (T), 23:1142
axisymmetric solutions of Einstein field equations, stationary, (T), 25:40313
barometric formulae in general, (T), 25:33045
baryon number nonconservation in general, interaction velocities from, (T), 24:10838
basic phenomena of special, 21:33551 (TID-23694)
behavior of gas spheres of 10^4 to 10^{20} solar mass in, (T), 24:42498
behavior of moving clock in centrally symmetric gravitational field, (T), 22:29064
bibliography on, annotated, 24:26474 (AD-684200)
bibliography with abstracts on general, 25:41107
Birkhoff theorem in general, review on generalizations of, 24:26505
Boltzmann equation in general and special, 25:12284
Boltzmann equation in general, Cauchy problem for, 25:59594
Boltzmann theory in, Grad method of moments for, 24:43043
book: Astrophysics and General Relativity, Vol. I, 24:21449
book: Axiomatization of the Theory of Relativity, 24:40457
book: Classical Electromagnetism via Relativity. An Alternative Approach to Maxwell's Equations, 23:3824
book: Classical Fields, Particles, and the Theory of Relativity, 25:36556
book: Critique of Relativity, 23:44720
book: Elements and Formulae of Special Relativity, 22:11714
book: Essential Relativity: Special, General, and Cosmological, 24:43055
book: Field Theory, 23:5197
book: Fundamental Principles of Modern Theoretical Physics, 24:42853
book: Fundamentals of Relativity Theory, 24:45596
book: Introduction to Special Relativity, 22:32196
book: Introduction to Special Relativity, 22:53016
book: Introductory Relativity, 23:3823
book: Modern Physical Theory. Special Relativity and Quantum Mechanics, 25:33506
book: New Approach to the Theory of Relativity, 25:33812
book: New Methods in General Relativity Theory, 21:17018
book: New Methods in the General Theory of Relativity, 22:32212
book: Paradoxes in the Theory of Relativity, 23:1698
book: Perspectives in Geometry and Relativity, 21:7398
book: Physical Fields in General Relativity Theory, 23:39830
book: Physics Pocket Book, 22:1374
book: Principles of Relativity Physics, 21:18876
book: Principles of the General Theory of Relativity (in Czech.), 24:15672
book: Relativistic Astrophysics. Vol. I. Stars and Relativity, 25:38124
book: Relativistic Hydrodynamics and Magnetohydrodynamics, 22:1040
book: Relativistic Mechanics. Special Relativity and Classical Particle Dynamics, 25:33806
book: Relativistic Physics, 23:21160
book: Relativistic Quantum Theory. Vol. 4, 25:43086
book: Relativity and Cosmology, 23:10426
book: Relativity and Cosmology, 23:27320 (AD-678054)
book: Relativity and Quanta. The Great Theories of Modern Physics (In French), 24:20222
book: Relativity and the Universe. Space and Time in Physics, Astronomy, and Cosmology, 24:6761
book: Relativity Reexamined, 25:5421
book: Relativity Theory and Astrophysics. 1. Relativity and Cosmology, 22:11192
book: Relativity Theory and Astrophysics. 2. Galactic Structure, 22:11191
book: Relativity Theory and Astrophysics. 3. Stellar Structure, 22:11190
book: Space—Time—Matter, 25:22898
book: Special and General Theory of Relativity, 22:44497
book: Special Relativity, 22:15847
book: Special Relativity and Quantum Mechanics, 22:50267
book: Special Theory of Relativity, 24:20213
book: The Logic of Special Relativity, 22:24715
book: The Physical Foundations of General Relativity Theory, 24:1658
book: The Principles of Electromagnetic Theory and of Relativity, 21:27281
book: The Theory of Spherically Symmetric Space—Times, 21:42216
book: Theoretical Physics: Applications of Vectors, Matrices, Tensors, and Quaternions, 23:21028
bosons in general, systems of self-gravitating, 24:13180
calculation of two-point Green's function of a strong self-interacting field in configuration space, 21:29401
Carnot cycles in general, (T), 25:58673
Cauchy problem for Einstein equations in general, global aspects of, 24:10839
Cauchy problem for Einstein-Liouville coupled system in Sobolev spaces in, existence theorem for solution of, 25:5420
Cauchy problem for nonlinear Boltzmann equation in general, 25:59594
Cauchy problem for nonlinear Boltzmann equation in special, 25:9843
Cauchy problem in general, 25:43696
Cauchy problem in general, covariant formulation of, 23:30821
Cauchy problem in general, global hyperbolicity for existence and uniqueness theorems for solutions of, 25:53339
Cauchy problem in general, intrinsic, 24:13166
Cauchy problem in general, unicity theorem for Einstein—Liouville equations for, 24:30580
Cauchy problem of Boltzmann equation in, (T), 22:26536
causal automorphisms in, theorem on group of space-time, 21:15245
causality and removable singularities in general, 22:29762
causality in general, stable, 25:43696
causality in theory of continuous media in special, invariance for, 25:43693
causality in, lectures on, 25:47779
center-of-mass in Einstein's theory of gravitation, 21:33567
centrifugal force paradox in general, 25:12274
characteristics of moving terrestrial clocks, (T), 24:42844
charge density in Klein—Gordon fields, expression for, 21:33565
charged dust distributions in general, 24:35709
charged dust distributions in rigid rotation in general, cylindrically symmetric, 22:24732
charged dust static distribution in general, 22:18021
charged fluid spheres in general, Einstein—Maxwell equations for, 24:3762
charged particle external field in general, radiating, 22:46517
charged particle motion in, classical, 21:25217
charged particle orbits driven by electromagnetic plane waves, (T), 21:44208 (BNWL-452)
charged sphere in general, stability of, 21:23300
charged-dust distribution in general, expansion of nonstatic spherically symmetric, 23:12507
charged-dust distributions in general, field equations with electromagnetic stress tensor for, 25:7733
charged-particle interactions in special, charge density formula for volumetric, 23:32819
charged-particle motion in general, conservation of e/m ratio for, 25:30998
charged-particle motion in gravitational field, equations of, 21:7428
charged-particle radiation in, uniformly accelerated, 25:19944
chronometric invariants in general, 22:1504
chronometric invariants in general, geometric interpretation of, 25:53346
class of model universes, 21:6966
classical mechanics in, conformal invariance in, 24:52178
Clifford algebras in general, 21:40136
clock paradox in, dynamical theory for, 25:28062
clock synchronization in general, 24:20233
comparison of Newtonian and Einsteinian cosmologies, 21:7437
comparison with antisymmetric tensor theory of gravitation, (T), 21:17006
components of Riemann—Christoffel tensor of space—time, 21:7434
conference on, 24:43038
conference on contemporary physics, Trieste, 7/68, 24:1113 (STI/PUB-214(Vol.1))
conference on statistical thermodynamics in, Cardiff, Wales, 4/70, 25:58670
configuration variables for gravitational field on two infinitesimally neighboring spacelike hypersurfaces in general, 24:20236
conformal tensor discontinuities in general, 22:53025
conformal transformations in general, 24:28606
congruence in general, conventionality of spatial and temporal, 25:41097
connections and invariants in higher-order spaces, 21:7416
conservation and balance laws in general, conformal group of Minkowski space for, 24:28605
conservation laws and symmetry properties not describable by coordinate mappings of Riemannian space—times in general, 24:10846
conservation laws for continuous media in general, integral, 24:52200
conservation laws for equations for perfect fluid in general, 24:43042
conservation laws from surface terms in the Lagrangian integral, 21:858 (NYO-3164-2, Lect. 14)
conservation laws in, 21:2009
conservation laws in general, and in post-Newtonian approximations, 24:1242
conservation laws in general, existence of preferred collineations for, 25:43704
conservation laws in general, integral, 24:37903
conservation laws in geometrical theory, covariant formulation of differential, 22:53022 (IFVE-STF-67-54-K)
conservation laws in, invariant form of, 21:44233
conservation laws in, tensorial concomitants for generating, 24:5345
conservation-law generators in general, covariant tetrad formulation of, 23:30823
conservations laws in general, review of, 23:23548
conserved quantities and conformal structure in general, 21:856 (NYO-3164-2, Lect. 3)
conserved quantities in general, group theory for, 23:27863
construction of macroscopically local quantum theories, 21:42234
construction of Rarita—Schwinger fields, 21:44239
construction of statistical mechanics in, 21:44228
continuity of causal automorphisms of space—time, 21:27277
continuum mechanics in general, 23:52007
convection in general, neutral stability against, (T), 25:27325
convection in stars in general, neutral stability against, 25:6971
coordinate system acceleration in, transformation formulas for, 25:41070
coordinate transformations to rotating reference frame in special, 25:30976
Coriolis effects in Einstein Universe, (T), 23:51351
corrections to Doppler shifts in lifetime measurements, (T), 23:21278 (ZFK-130, pp 226-31)
corrections to Maclaurin spheroids, post-Newtonian, (T), 25:43093
cosmological applications of general, (T), 23:41893

cosmological C-field models, 21:5050
cosmological constant and fundamental length, (T), 25:43087
cosmological constant in general, (T), 25:58661
cosmological constant in general, elementary particle theory for, 22:18027
cosmological implications of, 22:5025
cosmological model in projective, (T), 25:47311
cosmological model with singular region not accompanied by matter singularity, (T), 23:22863
cosmological models in general, 25:33032
cosmological models in general, self-consistent homogeneous isotropic, 22:50461
cosmological models using, 22:52427
cosmological models with shear in, Newtonian analogies for homogeneous anisotropic, (T), 24:44954
cosmology with invariant communication times, (T), 23:18366 (AD-674751)
counterexample to the Tangherlini argument, (T), 23:14928
covariant Noether identities in, 21:5334 (AD-637151)
CPT invariance in relativistic quantum field theory, effects of space—time dimensionality on, 23:1676
curvature tensor classification in general, principal congruences for, 25:12285
curvature tensors in, computer programs for, (T), 21:29397
Curzon metric for positive gravitational mass in general, structure of, 22:29764
cylinder with multipole moments in general, infinitely long, 22:29759
daytime astrometry to measure the gravitational deflection of light, 22:41190
de Sitter universe and Mach's principle, 21:13670
delay potentials in special, 21:27274
density and temperature of massive spheres in, limits on, (T), 23:39128
density distributions of massive spheres in general, 23:46167
descriptions of material sources for gravitational fields, 21:42235
development of cosmology in, 21:20720
developments in general, review of recent, 21:18855
Dicke effect in Einstein theory of general, multitemporal theory of relativity for, 22:41860
differential invariants in general, scalar, 23:34659
Dirac equation at high energies in, 23:27763
Dirac equation in Weyl space in special, 24:6756
Dirac equation in, Noether theorem generalization for all conservation laws for, 24:30567
Dirac Hamiltonian as member of hierarchy of matrices, 22:7553
Dirac radial equation in, formula for bound-state eigenvalue problem for, 23:42517
Dirac solution in the field of two beams of electromagnetic radiation, 21:13657
discretization effects on galactic structure, 21:6964
discretization in astronomy, (T), 25:4933
distribution function of perfect fluid in, calculation and use of moments of, 21:31511
dragging of inertial frames by rotating masses, 21:859 (NYO-3164-2, Lect. 15)
dust metrics with isometries in general, 22:20332
dust motion in general, interstellar, 22:1493
dust stationary distributions in electromagnetic field in general, charged, 22:26716
dynamic equations for massless scalar fields in general, solutions to, 23:32825
dynamical friction in post-Newtonian approximation of general, (T), 23:14469
dynamics in, theorem on periods in two-dimensional, 25:47956
dynamics of pressure-free matter in general, 21:40132
dynamics of relativistic polarized systems, 22:52897 (AD-662640)
earth motion in general, revolving and rotational, 25:53333
effect of an anisotropic gravitational mass on Earth—Moon distance, (T), 25:27358
effect of solar oblateness on perihelion of Mercury, 21:33061
effect on orbit of mercury, (T), 21:13664
effects in equilibrium of uniformly rotating bodies, (T), 21:13315
effects of nonzero cosmological constant on perihelion precession, 21:46440
effects on deformed figures of Jacobi ellipsoids, post-Newtonian, (T), 25:43090
effects on deformed figures of Maclaurin spheroids, post-Newtonian, (t), 25:43091
effects on equilibrium of uniformly rotating bodies, Roche model in, 21:27268
effects on Jacobian figures of equilibrium of uniformly rotating homogeneous masses, 21:27265
Ehrenfest paradox in special, kinematics for, 22:48356
Einstein equation in general, spherically symmetric nonstatic solutions for, 22:9694
Einstein equation in, m-dimensional interpretation of n-dimensional, 21:31510
Einstein equations for empty space in general, exact semigeodetic two-variable solutions of, 23:18999
Einstein equations for equatorial geodesic motion in gravitational field of rotating source, 23:1687
Einstein equations for gravitational fields in empty space, correspondence principle for, 23:18998
Einstein equations for origin of Universe in general, initial singularity in, 24:13174
Einstein equations for perfect fluid representing point mass in Einstein universe in, exact solution of, 24:37165
Einstein equations for spherically symmetric mass—energy distributions in general, mass function for motion of perfect fluid in, 24:10836
Einstein equations for, covariant formulation of Mach principle for, 21:3967
Einstein equations in cylindrical coordinates in general, solutions of, 25:36578
Einstein equations in Friedman—Lobachevski space, 21:44216
Einstein equations in general, analyticity of stationary vacuum solutions of, 24:43053
Einstein equations in general, approximate gravitational wave solutions to vacuum, 22:20334
Einstein equations in general, approximate radiative solutions to, 22:26720
Einstein equations in general, approximate radiative solutions to, 23:23544
Einstein equations in general, approximate radiative solutions to, 23:27872
Einstein equations in general, axi-symmetric stationary solutions for, 22:20335
Einstein equations in general, axially symmetric zero-mass meson solutions of, 23:3814
Einstein equations in general, Cauchy problem for, 23:17001
Einstein equations in general, combined Bondi and fast-approximation method for, 25:14807 (NP-18559)
Einstein equations in general, conformal flatness of Schwarzschild interior solution of, 25:14808
Einstein equations in general, equilibrium conditions for multipole singularities in, 23:15234
Einstein equations in general, first-order approximation to spherically symmetric solution of, 23:27866
Einstein equations in general, for Bianchi-type-IX universe with pure fluid stress tensor, 23:51356
Einstein equations in general, geometrical derivation of conservation laws for, 24:30561
Einstein equations in general, global hyperbolicity for existence and uniqueness theorem for solutions of, 25:53339
Einstein equations in general, Hamiltonian methods for construction and solutions of, 24:13169
Einstein equations in general, invariant representation of all analytic Petrov type-III solutions to vacuum, 24:26506
Einstein equations in general, method for generating solutions of, 25:41102
Einstein equations in general, momentum—energy tensor for free-space, 23:1697
Einstein equations in general, multipole moments for static asymptotically flat source-free solutions of, 24:49590
Einstein equations in general, plane symmetric solution for, 24:49603
Einstein equations in general, singularity of spherically symmetric Schwarzschild solution of, 23:27867
Einstein equations in mixed initial and boundary value problems in general, structure of, 23:30815
Einstein equations in space with nonriemannian connection in general, trajectories in, 25:59598
Einstein equations in, analyticity of static vacuum solutions of, 24:26503
Einstein equations in, complex oscillatory singularity in cosmological solutions of, 25:9877
Einstein equations in, Petrov type III solutions from complex two-form representation of vacuum, 25:53356
Einstein equations in, physical interpretation of solutions of, 21:20788
Einstein equations in, Robinson—Trautman solution of, 24:24438
Einstein equations in, singularities in, 24:43048
Einstein equations in, spherically symmetric static solutions of, 24:8734
Einstein equations in, use for exact solutions of gravitational wave equations, 23:23551
Einstein equations on space with non-Riemannian connections in general, generalized, 25:41090
Einstein equations with magnetic field in, solution of, 24:30579
Einstein field equation in general, covariant integral formulation of, 24:13181
Einstein field equation solutions for class of nonstatic fluid spheres without energy flow in, 23:16996
Einstein field equations for coupled Weyl gravitational fields and zero-rest-mass scalar fields, 23:44721
Einstein field equations for motion of spherically symmetric distribution of perfect fluid in general, 24:26510
Einstein field equations for one-component fluid, interior spherically symmetric solution of, 24:1653
Einstein field equations for spherically symmetric distribution of static fluid in general, asymptotic conditions of solutions of, 23:37003
Einstein field equations for vacuum in general, 23:3825
Einstein field equations from semiclassical approximation to quantum geometrodynamics, 23:19001
Einstein field equations in empty space in general, Newman—Penrose method for solutions with shear-free diverging and twisting geodesic rays for, 23:44719
Einstein field equations in general, charge and mass distributions for exact solutions of, 23:23547
Einstein field equations in general, combined Bondi and fast approximation method for axi-symmetric case for, 23:42744
Einstein field equations in general, generalization of Reissner—Nordstroem, 23:42753
Einstein field equations in general, generalization of Green theorem for, 23:18996
Einstein field equations in general, generalization of, 25:59591
Einstein field equations in general, global uniqueness theorem for solutions of, 22:26718
Einstein field equations in general, matter distributions of radial symmetry in solutions of, 25:59597
Einstein field equations in general, nonstatic analogs of Schwarzschild interior solution to, 23:3827
Einstein field equations in general, short-ranged scalar gravity in, 25:20093
Einstein field equations in general, static antisymmetric interior solution to, 22:5657
Einstein field equations in general, static solutions of, 23:7178
Einstein field equations in general, unified treatment of Kerr and Vaidya solutions for, 24:26512
Einstein field equations in general, uniqueness in four-dimensional space for, 23:42746
Einstein field equations in general, variational method for, 23:15238
Einstein field equations in second approximation in general, wave solutions of, 23:19002
Einstein field equations in, complete Schwarzschild solution for, 25:36580
Einstein field equations in, infilling for Newman—Unti—Tamburino space for, 24:20238
Einstein field equations in, isometry groups with surface-orthogonal trajectories for, 22:5659
Einstein field equations in, Schwarzschild singularity in, 24:43047
Einstein field equations of general relativity containing electromagnetic fields, cylindrical wave solutions for, 23:36994
Einstein field equations with electromagnetic energy tensor in general, cylindrical wave solutions of, 25:9873
Einstein fields in, self-interaction and gauge invariance for nonlinearities of, 25:41080
Einstein geometry in, historical development of, 24:43045
Einstein nonsymmetric unified field equations in Bondi space—time, t/z-type plane wave solutions for, 24:5343
Einstein scalar field equations in general, solutions to, 24:13168
Einstein space in general, N-type with nonintegrable radii, 24:37908
Einstein space—times in general, equations of motion and field equations for, 25:36577
Einstein spaces in general, four-dimensional simply connected homogeneous, 23:30822
Einstein spaces in general, new family of, 22:22459
Einstein spaces in general, properties of four- and five-dimensional, 23:37001
Einstein spaces in general, symmetry groups for empty, 24:52206
Einstein spaces in general, with one group of motion, 22:35120
Einstein tensor in general, 22:35111
Einstein tensor in general, generalization of, 25:28085
Einstein tensors of metrics with 3-parameter group of global isometrics, 24:26505
Einstein theory for general, 24:5342
Einstein unified field equations for, wave solutions of gauge invariant generalization of field theories with asymmetric fundamental tensor in V_2 x V_2 space-time for, 24:40477
Einstein unified field equations of gravitation and electromagnetism in V_2 x V_2 space—time, 24:5344
Einstein unified field equations of nonsymmetric theories in Bondi space—time in general, plane-wave solutions of, 24:6758
Einstein unified field theory in, nonexistence of spherically symmetric solution for vacuum electrostatic field in, 25:20088
Einstein vacuum field equation in general, space—times of Hoffman and Peres for, 24:40482
Einstein vacuum field equations in general, generalizations of Weyl solutions to, 23:42754
Einstein vacuum field equations in general, stationary noncanonical solutions of, 23:30820
Einstein vacuum field equations in Weyl coordinates in general, exact solutions of, 23:30824
Einstein vacuum field equations in, classification of Harrison metrics for, 25:53354
Einstein—Bohr box experiment, (T), 25:9154
Einstein—Liouville equations for Cauchy problem in, unicity theorem for, 24:30580
Einstein—Liouville equations in general, isotropic solutions of, 22:50458
Einstein—Maxwell equations for point charge in general, classical eigenenergy in, 24:37907
Einstein—Maxwell equations for spherically symmetric charge radiation, solutions of, 25:43710
Einstein—Maxwell equations for uniformly accelerating charged mass in general, 25:1628
Einstein—Maxwell equations in general, calculus of delta functions for determining constants in integrating, 23:1693
Einstein—Maxwell equations in general, calculus of delta functions for mass dipole problem of Weyl solution to, 23:1692
Einstein—Maxwell equations in general, exact solutions of, 24:40474
Einstein—Maxwell field equations for, exact stationary solution of, (T), 24:43035
Einstein—Maxwell field equations for, method for construction of stationary solutions of, (T), 24:43036
Einstein—Maxwell field equations for, spin coefficient formalism for algebraically special solutions to vacuum, 25:45812
Einstein—Maxwell field equations in general, 23:34658
Einstein—Maxwell field equations in general, 23:34656
Einstein—Maxwell field equations in general, construction from Einstein vacuum solutions, 22:5663
Einstein—Maxwell field equations in general, degenerate case $\mu = 0$ for reduction of unknowns in, 23:37005
Einstein—Maxwell field equations in general, degenerate case $\mu = 0$ for reduction of unknowns in, 23:37007
Einstein—Maxwell field equations in general, generalization of plane-wave null solutions for, 23:42740
Einstein—Maxwell field equations in, properties of cylindrically symmetric, 25:20086
Einstein—Maxwell field equations with plane symmetry in general, exact static solution of system of, 24:20231
Einstein—Maxwell fields in general, asymptotic expansions for, 23:32824
Einstein—Maxwell fields in general, invariant transformations for Newman—Penrose constants of motion for coupled, 25:12279
Einstein—Maxwell fields with matter and pressure in, 25:17577

Einstein—Schroedinger unified field theory in, analog of Birkoff theorem for, 24:40479
Einstein—Schroedinger unified field theory in, wave solutions in V_1 x V_2 space—time for, 24:40480
Einstein-Liouville equation in, lemma on, 24:43044
Einstein-Maxwell equations for null electromagnetic fields in general, class of solutions of, 25:1637
Einstein's field equation, solution of, 23:51341
elasticity theory in general, 24:30588
electric charges in general, geodesics of Einstein connection for paths of, 25:36443
electrodynamics formulation in general, generalization of Born—Infeld nonlinear, 23:52003
electrodynamics of moving media in, 23:27848 (IFA-FT-72)
electromagnetic behavior in space—times conformal to some well-known empty space—times, 21:37635
electromagnetic field in general, energy—momentum tensor for, 24:18287
electromagnetic field produced by exact charge in, equality of exterior product of universal vectors of tensor, 21:46437
electromagnetic field propagation in general space—time, 21:7411
electromagnetic fields in general, nonstatic, 23:12506
electromagnetic fields in general, nonstatic, 21:15249
electromagnetic fields in general, null, 24:15674
electromagnetic fields in general, solutions of Einstein—Maxwell equations for stationary, 23:1694
electromagnetic fields in special, gauge condition for nonradiative, 24:37856
electromagnetic interactions in special, mass defect of bound system in Wheeler—Feynman, 23:18970
electromagnetic momentum density in, axisymmetric Maxwell—Minkowski tensor for, 21:29408
electromagnetic null field in general, geometrodynamics of, 23:25701
electromagnetic potential vector in general, geometry of spinors for, 23:23542
electromagnetic waves in general, 21:35238
electromagnetic-cavity resonances in rotationally induced gravitational field, 23:27873
electron electromagnetic mass paradox in special, 23:49089
electron mass change in, equation for, 23:36986
electron mass distribution in scalar—tensor and general, exact solutions for static spherically symmetric, 24:52205
electron model in general, gravitational effects in classical extended, 25:53089
electron radiation in magnetic fields, polarized, 21:44223
elementary particle motion in general, 25:9874
elementary particles in general, Friedman theory for, 25:9870 (JINR-P2-5289)
elliptic system in general, constraints equations in, 25:47968
energy accumulation by pulsating fluid spheres, (T), 24:4980
energy and euclidian behavior of external stationary space—time, 21:31509
energy and momentum conservation in, 21:46442
energy and momentum conservation in general, 23:1688
energy and momentum of gravitational waves, 21:37176
energy and radiation in general, review of, 24:28602 (AD-701726)
energy density in, existence and uniqueness of intrinsic, 21:7409
energy flux along null ray, 21:7423
energy propagation in special, causal density requirement for, 23:18974
energy radiated far from sources by two-body system in general, 23:42745
energy radiation by arbitrary axially summetric system in general, solution of Einstein field equations for, 22:39488
energy spectrum of cosmic radiation, in covariant kinetic equation for, 21:17001
energy tensor for null electromagnetic field in, 21:44231
energy tensor of the null electromagnetic field, 21:33579
energy—momentum complex in, Brans—Dicke evaluation of, (T), 24:8316
energy—momentum of radiating systems in general, null hypersurface treatment of, (T), 24:43049
energy—momentum radiated by charge-current distribution, (T), 21:7414
energy—momentum tensor for general, derivation of, 21:33582
energy—momentum tensor for stellar radiation field, (T), 22:49928
energy—momentum tensor in general, 24:45591
energy—momentum tensor in, algebraic structure of symmetrical, 25:41089
energy—momentum tensor in, type of, 21:7425
energy—momentum tensor in, uniqueness of, 21:44211
energy—momentum tensor of electromagnetic field in special, review of, 23:23532
energy—momentum tensors of closed physical system, 21:7424
energy-momentum density and superpotentials in general, reference frames for, 22:11730
energy-momentum density in closed universe in general, 21:18845
energy-momentum of closed static system in general, (T), 24:33046
energy-momentum tensor in polarized media, uniqueness of, 21:37645
ensemble versus time average probabilities in, (T), 25:59238
equation of motion for radiating charged particles without run-away solutions, 21:7387
equations for general relativistic fluid sphere, 22:1474
equations for gravitational fields of rotating bodies, (T), 22:34133(R) (AD-661645)
equations for infinitesimal gravitational fields, 21:33577
equations for nonsymmetric problems in, complete system, 22:17269
equations for rotating perfect fluids with axial symmetry, 24:37919
equations for vacuum metric which permits hypersurface—orthogonal Killing vector, 21:7431
equations in general, use of conform metric for laboratory interpretation of, 23:34652
equations in, covariant Noether identities in, 21:44209 (N-67-26178)
equations of de Broglie wave field in space—time, 21:3949
equations of general, basic properties of, (T), 24:28065
equations of motion for singularities in general, 23:34657
equations of motion for system of massive bodies in gravitational field of system in general, 24:20232
equations of motion for test particle in, differential Lie equations for covariant, 25:59584
equations of motion in general, group theory for, 25:17575 (AD-713140)
equations of motion in general, structure and motion of singularities for, 25:41096
equations of motion in general, structure of elementary singularities for, 24:13178
equations of motion in internal field with central symmetry in general, 23:7179
equations of motion in, additional invariance of, 25:30975
equations of motion of a dynamical system of particles, 21:31498 (AD-636063)
equations of state for material medium, 21:37647
equilibrium configurations of slowly rotating stars in, (T), 22:11147
equilibrium of slowly rotating fluid using general, (T), 21:27267
equivalence principle for massive bodies in general, 25:31009
equivalence principle for massive bodies in general, 22:35114
equivalence principle for massive bodies in general, 22:35115
equivalence principle for photons in general, experimental test of, 24:3756
equivalence principle for unstable elementary particles, test of, 23:1610
equivalence principle in general, formulation of generalized quantum field theory as extension of, 25:1621
equivalence principle in general, operational formulation of, 24:8732
equivalence principle in general, quasi-uniform gravitational field derivation from Schwarzschild metric, 23:44723
equivalence theory of general metric line-element spaces, 21:7421
event horizons in static scalar-vacuum space—times in, 25:12282
evolution of Einstein's vacuum equations, 21:42218
evolution of perfect fluid in general, (T), 22:17195(T) (UCRL-Trans-10206)
evolution of vacuum·Einstein equations in invariant form, 21:35241
existence of cosmic time functions, (T), 23:12508
experimental testing of general, (T), 25:13942
experiments in space vehicles on, review of Earth orbit and deep-space, (E/T), 25:35821
extended bodies in general, moments of energy—momentum tensor and charge—current vector for, 25:9875
extension to Newton's theory of gravitation, (T), 25:35813
exterior solution for radiating spheres with zero limb darkening in, (T), 23:22723
fermion interactions with gravitational and electromagnetic fields in general, bound-state solutions for spin-1/2, 24:6763
fermion interactions with gravitational field in general, nonlinear spinor equation and asymmetric connection for, 25:53348
fermion interactions with linearized gravitational fields in general, covariant Dirac equation for, 25:9879
fermion structures in general, conserved, 25:20089
fermions as space-charged neutrinos in general, space generalization relation with spinors for massive, 24:10847
fermions in general, systems of self-gravitating, 24:13180
field energy in general, variational procedure for resolving positive-definiteness of, 23:8848
field equation of, effect of quadratic terms in Riemann tensor on, 21:2344
field equations for gas sphere in gravitational equilibrium, 21:29402
field equations in Brans—Dicke scalar—tensor theory in general, approximate solution of vacuum static case of spherical symmetry for, 25:41100
field equations in general, alternative, 21:7417
field equations in general, closed world with field sources in modified scalar, 25:33833 (JINR-P2-5738)
field equations in general, conservation laws from invariance of, 25:25513
field equations in general, cosmological constant modification of system of generalized, 25:31004
field equations in general, dynamical variables in canonical form of, 25:59592
field equations in general, Hamiltonian, 21:9681
field equations in general, lectures on acausality in, 25:47779
field equations in general, modifications of Yilmaz, 23:46820
field equations in general, quantum, 25:45806 (AD-718957)
field equations in general, Riemannian metric for, (T), 23:13130
field equations in general, solutions for static spherically symmetric space—times in alternative, 24:18290
field equations in general, solutions of weakened set of, 25:30999
field equations in general, space—times for coexistence of gravitational and electromagnetic plane waves for solution of, 24:28608
field equations in general, weakened, 21:37648
field equations in presence of zero-mass mesons in general, electromagnetic solutions of, 25:45792
field equations in, axially symmetric interior solution to Einstein, 21:15241
field equations in, Einstein's formalism for time-reversed quaternion, 21:21110
field equations in, formulation of axially symmetric gravitational, 22:26714
field equations of general, derivation of, 23:10856
field equations of general, for composite sphere, 24:13170
field equations of general, modification of Sach symmetric-tensor—antisymmetric-tensor theory from quaternion, 25:38793
field equations of general, plane wave solution in generalized Takeno space—time for, 24:28604
field equations of nonsymmetric unified fields in, generalization of plane-wave solutions of Einstein, Schroedinger, and Bonner, 24:28584
field interactions in flat space—time of special, model in five dimensions for, 25:9868
field solutions for Einstein, static scalar, gravitational, and electromagnetic, 21:44235
field structure in Schroediner unified field theory in, exact solution corresponding to, 25:36554
field theories in general, equivalence of, 23:23543
field theory in complex Weyl space in general, scalar, 25:45815
field theory in complex Weyl space in general, scalar, 25:47969
field theory in Friedman space in, 22:22448
field theory in general, nonexistence of isolated charge distribution in Bonner unified, 25:50170
field theory in Minkowski space—time in general, Lorentz-invariant, 25:43665 (NP-18831)
field theory in, simplified intrinsic proof of Rainich differential relation for already unified, 25:53278
field theory in, spherically symmetric solution in unified, 24:37901
field unification in general, nine-dimensional field theory for, 24:35691
fields due to particle in grounded cylindrical box in, electric and magnetic, 24:26564
fields in de Sitter space, dynamics of quantized, 23:39808
fields in general, conformal transformations for zero-mass, 24:28606
fields in general, gravitational radiation propagation in exact solutions of cylindrically symmetric null, 25:17576
fields in general, higher-spin particle motion in Rarita—Schwinger, 24:52204
fields in general, multipole expansions for stationary, 22:18023
fields in general, unified nonlinear, 24:45573
fields in, Noether equations for invariant changes in massless free spin-0, -1/2, -1, and Einstein—Maxwell, 23:42749
fields of arbitrarily accelerating point mass in general, 24:13173
fields of charge and mass distributions in general, self-energy contributions from exact solutions to equations for, 21:37641
flat space characterization by variational principle, 21:7429
fluid in general, Einstein field equations for motion of spherically symmetric distribution of perfect, 24:26510
fluid motion in general, mass—energy of spherically symmetric distributions of perfect, 24:26508
fluid spheres in general, solutions for spherically symmetric matter distributions in, 22:37197
Fock interpretation of spatial metric in general, 22:3528
force in special, paradoxical behavior of, (T), 24:43027
force transformation in special, 24:40459
force transformations in statics in special, 24:40460
forces of inertia in general, (T), 25:2871
formalism for general, classical gravitational field theory comparison with Newman—Penrose, 25:59593
formalism for general, supplementary trivial equations in Newman—Penrose, 25:59586
formalism for gravitation, 23:1700
formalism for singular hypersurfaces and thin shells, 21:3956
formalism in general, three-dimensional chronometric invariant dimetric, 24:20239
formalism of five-dimensional, sizes of bosons and fermions in, 21:7474
formation of double systems in general, solutions to Kepler problem, (T), 24:19693
formulation for electrodynamic properties of empty space, general, 25:1629
formulation for faster-than-light particles, Lorentz invariance in, 22:50450
formulation for tachyons, 23:32803 (NYO-3399-191)
formulation of antirelativistic dynamics, 23:21157
formulation of effective potential for nongravitational central potential in general, 22:5656
formulation of Einstein's gravitational equations by Rosen method, Minkowski, 21:42217
formulation of five-dimensional unified theory of gravitation and electromagnetism in flat space—time of special, 24:6755
formulation of general, canonical, 21:42225
formulation of general, two-component spinors in Hamiltonian, 21:18873
formulation of local and global principles in, 25:43707
formulation of Machian principles in, 21:46435
formulation of Machian principles in, 21:46436
formulation of relativistic geometry in, space—proper-time, 24:33036 (AD-702080)
formulation of special, Galilean transformations for, 24:5340

formulation of standard general, full Bianchi identities from extended general invariance property in variational, 24:43054
formulation of stochastic theory of quantum mechanics, 25:1345
formulation of thermodynamics in, 21:42223
formulation of three-dimensional, for axisymmetric stationary space-times, 22:53023 (KFKI-23/1968)
Fresnel equation in general, derivation of, 21:44227
Friedmann interval transformation in general, 22:1505
galactic morphology, field equations for, 21:7410
galaxy formation in oscillating universe model, 21:31158
Galilean, Bargmann-Wigner method in, 24:49466
gauge fields in general, local, 24:40471
gauge invariance for general, 25:33843
gauge invariance in general, generalized space relation with spinors for, 24:10847
gauge transformation in, Utiyama, 24:45577
general inequalities for regular fluid spheres, (T), 21:588
general, radial adiabatic motion of spherically symmetric models of uniform density and isotropic pressure in, 21:39831
generalization of Koenig theorem, 21:42213
generalization of Lorentz transformation in, (T), 24:28455
generalized surface harmonics in, 21:13660
generation of negative mass in quasars, 21:6965
geometries at moment of time symmetry in general, Regge calculus for Schwarzschild and Reissner—Nordstrom, 25:17581
geometrization of fermion fields, Rainich, 21:46441
geometrization theories of gravitational and electromagnetic fields in general, hypothesis for united, 23:37006
geometrodynamics in general, interacting knots in, 23:8836 (EUR-4048)
geometrodynamics in, Hlavaty conditions in general, 23:42738
geometrodynamics of null electromagnetic fields, 21:7420
geometry for general, additivity law of velocity for reference systems in non-Euclidean, 24:15671
geometry in general, particle structure in, 24:42495
global connectivity by timelike geodesics in general, 22:5662
gravitation and electromagnetism from quaternion representation of general, symmetric tensor—antisymmetric tensor theory of, 22:29765
gravitation field dynamical variables in general, SL(2,C) symmetry for, 24:52207
gravitation fields in asymptotic approximation in, 21:18874
gravitation in general, formulation of quantum theory of, 24:30578 (AD-684586)
gravitation in general, inertial reference frames in Einstein theory of, 25:30996
gravitation in general, periodic solution of central differential equation for, 23:16995 (N-68-33375)
gravitation in, finite-range, (T), 23:44142
gravitation, multidimensional theory of, 21:29411
gravitational accelerations near arbitrary timelike geodesic in Schwarzschild space in general, tidal, 25:17580
gravitational and electromagnetic fields in general, momentum—energy tensors of, 23:1696
gravitational and inertial field equations in, (T), 23:13131
gravitational bounce in general, (T), 23:16621
gravitational bremsstrahlung in, 24:37900
gravitational collapse in general, application of static results to, (T), 22:52346
gravitational collapse in general, covariance, invariance, and equivalence in, 25:53349
gravitational collapse in general, lectures on, 25:19465
gravitational collapse of charged shells in general, 22:24733
gravitational collapse with pressure gradient, model for, 21:46109
gravitational constant in, Brans—Dicke theory for, 22:37199
gravitational constant in, variation of, 21:23294
gravitational coupling of matter in general, scale invariance for, 24:45594
gravitational coupling of negative-mass matter in general, 23:46822
gravitational coupling to matter in general, suppression of ultraviolet infinites from, 23:49204
gravitational damping energy loss of two-body system in general, equivalence with gravitational radiation energy for, 24:6762
gravitational deflection of microwaves in solar field, (E), 25:43094
gravitational emission from stellar models, (T), 24:8246
gravitational energy conservation laws in general, 22:5654
gravitational energy in general, sign of, 22:29763
gravitational energy transfer in general, Newtonian, 25:28089
gravitational energy transfer in general, time sequences of axially symmetric static configurations for, 25:14816
gravitational field equations for fluid spheres in general, 25:14814
gravitational field equations in general, nonstatic case in exact solutions of, 25:3448
gravitational field equations, integration of, 21:35240
gravitational field fluctuations in general, role of quantum, (T), 25:30224
gravitational field in general, high symmetry fields for homogeneous, 24:26507
gravitational field in general, theorems for static, 25:53315
gravitational field in three-dimensional, axisymmetric stationary vacuum, 23:32831
gravitational field of counter-rotating dust disks in general, 23:46819
gravitational field of static axially symmetric shells and disks in general, 25:9882
gravitational field of uniformly rotating axially symmetric source in, equations for, 22:22454
gravitational field quantization in general, 21:19052 (ARL-66-0206)
gravitational field quantization in revised theory of general, 23:27868
gravitational field quantization in revised theory of general, 22:20329
gravitational field structure in general, nonradiative, 21:29405
gravitational field structure in general, without symmetry hypothesis for nonradiative, 24:24434
gravitational fields in asymptotically null-spherical coordinates in general, tetrad formalism for asymptotically flat, 25:14815
gravitational fields in general, chronometrically invariant representation of classifications of Petrov, 25:1638
gravitational fields in general, equations for, 24:10840
gravitational fields in general, system of equations for two, 23:23549
gravitational fields in, stationary axially symmetric, (T), 24:46858
gravitational fields of thin shells in, (T), 23:14572
gravitational instability in expanding universe, nonlinear theory of, 21:34995
gravitational instability in expanding universe, reformulation of Lifshitz's theory for, 21:26960
gravitational interactions, theory of anomalous, 21:27280
gravitational mass loss in a system emitting electromagnetic radiation, 21:29412
gravitational motions of collapse or expansion in, 21:23297
gravitational radial motions of spherically symmetric mass in general, scale function analysis for, 24:24433
gravitational radiation and renormalization of mass in, 21:3966
gravitational radiation calculation in, solar, 22:39486
gravitational radiation damping of slowly moving systems in general, matched asymptotic expansion method for calculating, 25:28086
gravitational radiation damping, (T), 22:41205
gravitational radiation in general, double series approximation for, (T), 23:13133
gravitational radiation in, (T), 24:1259
gravitational radiation in, energy variation of two-body system by, 21:31512
gravitational radiation in, high-frequency, 22:20333
gravitational radiation scattering in, (T), 21:44230
gravitational red shift in general, quantum mechanics for, 25:30963
gravitational theory extension in general, cosmological models in Yilmaz, 25:28087
gravitational wave in Brans—Dicke, rate of radiation, 21:42226
gravitational wave space—time embedding in general, plane-fronted, 22:35121
gravitational waves in Einstein spaces, 21:44225
gravitational waves in general, invariant formulation of theory of, 23:15240
gravitational waves in general, Kaigorodov one-wave Type-III solutions for, 25:53355
gravitational waves in general, planar, (T), 24:49600
gravitational waves in general, plane, 24:37906
gravitational waves in general, plane-front, 23:15239
gravitational waves in general, vacuum metric for spherical-cylindrical, 24:3767
gravitational waves in, colliding, (T), 25:11655
gravitational-wave scattering by massive particle in nonlinear coordinate covariant general, low-energy threshold theorem for, 25:7737
gravitational-wave velocity test of general, (T), 24:6333
graviton and flat background in general, non-zero mass, 21:5346
group theory for general, nonlinear realizations in, 25:56549 (ORO-3992-9)
group theory for, finite geometry for rotation and Lorentz, 22:1481 (RT/FI-(67)18)
groups in finite geometry in, Lorentz, Poincare, and rotation, 22:46524
guiding formula in general, geometric and physical interpretation of, 22:35109
Hamilton—Jacobi functional for general, new properties of, 24:37909
Hamiltonian dynamics and positive energy in general, (T), 24:1260
Hamiltonian formalism in, 21:7430
Hamiltonian formalism on null surfaces for, 25:14773
heat transfer in charged-fluid flow in, 21:13422
Helmholtz first vorticity theorem in, generalization of, 24:51869
Herglotz—Noether theorem in conformal space—time, 21:33574
Hermite—Grad polynomials for special, generalization of, 21:7384
Hilbert space description of the gravitational field, (T), 23:22862
hydrodynamic equations for nonideal electron gas, 21:29407
hydrodynamics and radiation reaction in general, $2^{1}/_{2}$-post-Newtonian equations of, (T), 24:23721
hydrodynamics for thermally conducting viscous compressible fluid in, post-Newtonian equations of, (T), 25:22340
hydrodynamics in Brans—Dicke theory, post-Newtonian equations of, (T), 23:20654
hydrodynamics in, second post-Newtonian equations of, 24:1245
hypersurface in general, gravitation effect of electromagnetic field in charged model for, 22:7558
hypersurfaces in, physical role of theory of, 21:33586
identities in general, quantum Bianchi, 25:45806 (AD-718957)
imbedding problem of spherically symmetric space—time, 21:7433
implications of solar oblateness to, (T), 21:18393
inertial mass of platinum with respect to magnesium in centrifugal field in, (E), 24:24436
inertial potentials in general, quantum mechanics for, 24:37922
infinite planes in general, gravitational field of massive plates for analogy with, 23:52006
integration of infinitesimal generators of inhomogeneous Lorentz group, 21:13659
interactions in general, nonlinear corrections to radiative, (T), 24:33045
interactions in, Dirac bispinor form of Maxwell's equations for elementary, 21:852(R) (AD-632417)
interpretation of Einstein's vacuum field equations, 21:7438
interpretation of general, Machian, (T), 24:44957
interpretation of stationary, rigid, or conformably rigid ds^2 in, 21:46448
interpretation of Weyl tensor, 21:7426
interval in, new interpretation of, (T), 25:49688 (CONF-690732, pp 7.1-16)
introduction to, 21:25214 (ISS-67/1)
invariance of Einstein velocity composition laws, 21:37638
invariance principle of, theory for non-Lorentzian form of, 24:37864
invariants of special, in nonrelativistic and Galilean approximation, 25:3434 (JINR-P2-5363)
isentropic stars in general, (T), 23:41792
isomorphism between base homologies in Lorentz—Einstein, (T), 25:27425
Jean's criterion in relativistic cosmology, (T), 22:47729
Jost—Lehmann—Dyson representation in, 24:43025
junction conditions for spherically symmetric matter in co-moving coordinates in general, 23:23546
Kerr metric and rotating masses, 21:44232
Kerr metric in general, 22:53030
Kerr metric in general, source distribution of, 24:45597
Kerr—Vaidya metric in, properties of slowly rotating spherical shell in, 24:37927
Killing fields in general, homogeneous Riemannian spaces from Lie algebras for, 25:53341
Killing horizons in general, relation with orthogonally transitive groups in space—time, 23:15236
Killing vectors of groups of generalized motions in general, generalized, 24:28610
kinematics of special, 23:18960 (NP-17766(Pt.1))
kinetic equations for nonuniform electron gas, (T), 21:29398
kinetic theory of cosmology, 23:14578
kinetics problems in, application of Bargmann Hilbert spaces to, 21:18856
Klein—Gordon equation in, 22:43759
Lagrangian function in general, uniqueness of quadratic-action, 24:47508
Lagrangian function in special, causality in Lorentz-covariant, 25:28068
Lagrangian function in special, formulation of, 25:20064
Lagrangian functions in general, 21:33573
Lagrangian functions in general, one-dimensional, 23:1691
Lagrangian in quantized general, renormalization of nonpolynomial, 25:56549 (ORO-3992-9)
Lagrangians in general, reciprocal static metrics for nonlinear, 24:40478
Lagrangians in general, solutions of equations with quadratic, 25:59603
Lanczos identity and its generalizations, 21:42214
lectures on special and general, 21:2338 (NP-16369)
length contraction paradox, solution of, 21:21114
light deflection by solar gravity, new method for detection, (T), 21:37633
light deflection in general, graviton mass effects on, 22:39482
light polarization in general, 23:51998
line charge in general, solution of, 24:43037
line element and relative mass in general, axially symmetric, 23:27870
linearity of the Lorentz transformation, 21:13667
local energy of weak gravitational waves, 21:44224
local global method for description of planetary motion and Einstein gravitational field equations in general, 24:1654
local-global method in general, 24:1657
Lorentz and Lorentz-tachyon transformations in, 25:3441
Lorentz contraction for acceleration of pushed and pulled rods in, 24:22003
Lorentz covariance in, general, 25:56558
Lorentz equations in spinorial form, 21:7427
Lorentz group calculations in, reduction of wave functions to irreducible representations of, 24:20034
Lorentz group for relation of geometric objects in Minkowski space with spin and conformally weighted functions on sphere in, 25:7715
Lorentz group for special, book on, 24:15611
Lorentz group for special, evaluation of principles used for establishing, 21:46451
Lorentz group in special, generalization of, 22:44501
Lorentz group in, addition theorem for basis functions of first-class irreducible representations of, 25:14759
Lorentz group in, formulation of constitutive equations in continuum physics under, 24:24200
Lorentz group in, reduction of wave function for zero-mass systems to, 25:1604
Lorentz group in, relation between restricted group and unimodular group of order two for, 23:39825
Lorentz group in, Wigner function for hyperbolic rotations in homogeneous, 25:14759
Lorentz group representations in general, application of spinors and, 23:25695 (AD-677344)
Lorentz group transformation in, 23:32828
Lorentz invariance in electron and meson (μ) arrival times in EAS at 10^{11} to 10^{19} eV, validity of, (E), 24:10835
Lorentz invariance in gravitational fields, 24:26497 (AD-700651)
Lorentz invariance in special, breakdown of, 21:37913

Lorentz invariance in, torsion pendulum for test of, (E), 24:1646
Lorentz mechanical equation in, 23:36986
Lorentz metrics in general, stable and generic properties of, 25:43696
Lorentz principle and general, 21:31501
Lorentz principle in general, summary of notation for, 24:18286
Lorentz transformation in Einstein, 24:20234
Lorentz transformation in special, generalization of, 24:3745
Lorentz transformation in, electric field in moving magnetic field in first-order for, (E), 24:8730
Lorentz transformation of electromagnetic field potential, 21:9677
Lorentz transformation of thermodynamic quantities, 21:33556
Lorentz transformations for classical particles in special, invariance and conservation laws for, 24:22004
Lorentz transformations for invariant electric tension vector for motion of electric charges in electromagnetic field, 25:56567
Lorentz transformations for tachyons in, energy and momentum equations for parametrization of, 24:10834
Lorentz transformations in inhomogeneous regions in general, 22:1483
Lorentz transformations in n greater than or equal to 2 spacelike dimensions, unimodular matrices homomorphic to, 22:5647
Lorentz transformations in special, diagonal form of, 24:20225
Lorentz transformations in special, proof of reciprocity principle for derivation of, 23:46815
Lorentz transformations in special, tachyon properties from, 25:22896
Lorentz transformations in, gravitational field effects on, 24:10844
Lorentz transformations in, inverse Terrell effect in, 21:44237
Lorentz transformations in, isotropy of space for, 24:40469
Lorentz-invariant alternate theory to general, consistent linear, 25:1625 (AD-706881)
Lorentzian geometry in, spinor approach to, 24:28607
luminosity—red shift relations of homogeneous Friedmann models, 23:14580
Mach principle for physical vacuum in general, 24:49599
Mach principle in general, boundary conditions for enforcing, 22:5664
Mach principle in general, causal relation among strong, electromagnetic, weak, and gravitational interactions from Dicke interpretation of, 23:39824
Mach principle in general, differentiable manifolds for, 24:37925
Mach principle in general, discontinuity of first derivatives of metric tensor for, 24:52202
Mach principle in general, Green function in expanding universe for, 22:50459
Mach principle in general, Wheeler and Brans—Dicke theories for, 24:37926
Mach principle in special and general, 25:28065
magnetic charge in general, Schwinger field theory of, 21:25215
magnetic field in linearized general, gravitationally induced, 24:45593
magnetic field in presence of freely moving particles in general, solution of Einstein—Maxwell equations for cylindrically symmetric, 22:26717
magnetodynamic effect in, generalization of, 24:26490
magnetohydrodynamics in general, general relations for behavior of, 25:43701
magnetohydrodynamics in, post-Newtonian equations of, (T), 25:22341
mass determination in general, Minkowski metrics for doubled, 22:3524
mass distribution with quadrupole moment, exact metric for nonrotating, 24:3758
mass in general, formula for relative, 22:32213
mass in general, metric effects on definition of inertial, 23:34660
mass in general, negative, (T), 23:39832
mass in general, nonpositive-definiteness of electromagnetic coupling and Mach principle for positive-definiteness of inertial, 22:18029
mass of closed static system in general, total, 25:36581
mass shell as source of Kerr metric in general, properties of spinning, 22:37194
mass stability in general, variational principles for self-gravitating spherical gaseous, 24:15673
mass—energy of spherically symmetric distributions of material in general, 24:26508
masses in general, spinning quasi-spherical, 24:37916
masses of elementary particles in multitemporal, 22:41758
masses with arbitrary baryon number in Treder tetrad theory in general, static equilibrium states of spherically symmetric, 25:9876
matter and action in general, unified theory of continuous, 23:25697
matter and magnetic energy in equilibrium in general, cylindrical symmetrical distributions of, 22:48371
matter as curved space—time in general, 23:25698
matter contractions in general, method of measuring gravity-induced, 23:37008
matter distributions of spherical symmetry in general, equation for nonstatic, 25:3448
matter field interactions with gravitational and electromagnetic fields in 2-spin—tensor formalism of general, 23:37000
matter in general, conservation of, 25:1633
matter in general, Einstein equations and Lichnerowicz matching conditions for surface distribution of, 23:51999
matter in general, equations of state for continuous, 24:24437
matter in general, spherically symmetric T-models for grain, 23:39823
matter in general, surface layers of, 23:21163
matter tensor of perfect fluid in, 21:3942
matter—radiation interaction, statistical description, 21:31513
maximal analytic extension of the Kerr metric in, 21:18848
maximal covariance conditions in, 21:7401
Maxwell electromagnetic theory in special, analogy with Einstein gravitation theory for, 24:22006
Maxwell equations in general, structure of, 23:23545
Maxwell field equations in space—time V_2 x V_2 corresponding to product of two surfaces in general, wave solution of generalized, 23:36995
measurement in general, geodesic clock for, 22:22457
measurement theory in, space—time structure for, 24:37860 (NYO-3829-53)
measurements in macro- and microphysics, analysis of, 22:24495
measurements in, imposition of empirical acceptability conditions on sequences of single, 23:30679
measurements in, operational procedure for space-time, (T), 21:18871
mechanics in, theorem and potentials for, 25:20084
mercury perihelic precession in, heuristic derivation of, 25:3291
Mercury perihelion advance in general, multitemporal theory and Dicke effect for, 22:26711 (JINR-P2-3590, pp 201-10)
metric field in general, lapse and shift formulation for uniqueness of initial conditions for causal development of, 23:46826
metric for exterior cylindrical gravitational field in general, radiating Levi—Civita, 25:22902
metric in general, global singularities in Taub—NUT, 24:52208
metric in general, interpretation of Newman, Unti, Tamburino, 23:39833
metric in general, Robertson—Walker, 24:37914
metric in quaternion formulation of general flat-space, 23:46821
metric space in general, origins of Schwarzschild and Curzon static solutions for, 25:43697
metric spaces in general, Petrov classification of orthogonal, 23:25700
metrical disturbance in quantum, 21:37639
metrics of four-dimensional symmetrical Lorentz spaces, 22:41716
Minkowski diagram in, null-coordinate, 24:52201
Minkowski space in general, gauge group for coordinate transformations for, 23:34655
Minkowski space in special, topology for, 25:28061
Minkowski space in, complete sets of functions on homogeneous spaces with compact stabilizers for, 25:7695
Minkowski space in, Dirac, Klein—Gordon, and Schroedinger equations as transport equations in, 23:30825
Minkowski space in, equations of motion invariant under group P(1,n) in, 25:30966
Minkowski space in, Kemmer—Duffin equations in five-dimensional, 24:30571
Minkowski space in, Lorentz group for relation of spin and conformally weighted function on sphere with geometric objects in, 25:7715
Minkowski space in, measurement theory for causality structure of, 24:37860 (NYO-3829-53)
Minkowski space in, neutrinos in discrete transformations in six-dimensional model of, 25:12252
Minkowski space—time in, continuous-medium deformation field in, 25:59562
Minkowski space—time in, deviation function in, 25:50181
Minkowski space—time in, pseudo-isotropic surfaces in, 24:37863
mixmaster Universe in, Misner's, (T), 25:33040
model for dense massive stars in general, exact internal solutions in, 22:46521
model for gravitational collapse, 21:7441
model of general, scalar, 23:49208
model of special, from fundamental axioms, 22:24714
models for supermassive stars, (T), 24:8258
models of continuous medium with irreversible processes in special, variational methods of constructing, 21:21124
models of static configurations of large masses, (T), 25:9008
modern formalism in tensor calculus, (T), 25:50028 (CONF-690732, pp 5.1-18)
Moessbauer studies of predictions of, review, 24:35579
motion equations for macroscopic rotating particles, 21:46444
motion for material continuum in general, 25:45813
motion in black-body cavity radiation, 23:14585
motion in general, conversion of velocity and acceleration for hyperbolic, 22:22462
motion in general, singularity structure from, 25:14813
motion of a falling particle in a Schwarzschild field, 21:11728
motion of bodies in general, errors in approximation equations for, 24:37902
motion of bodies in gravitational fields, geodesic, 21:17017
motion of objects in special, review of apparent shape during rapid, 22:20309
motion of particle in incompressible fluid sphere, 21:5335 (NP-16395)
motion of two rotating spherically symmetric bodies in, translational, 21:17002
movement of variable mass point in, reverse problem of, 21:27260
multipole moments in general, moments of solution of Laplace equation in flat 3-space for, 24:35712
multipole radiation fields in general, 21:7402
neutrino field in general, spinor equations for two-component, 24:18289
neutrino field in general, tetrad equations for two-component, 24:35710
neutrino model in general, with velocity groups G_3 on V_3, 25:3343
neutrino radiation fields in general, 25:25519
neutrino—gravitational field in general, geometrical aspects of two-component, 25:25515
neutrinos in general, space generalization relation with spinors for massive fermions as space-charged, 24:10847
Newman—Penrose constants in flat and asymptotically flat space—time in general, Green theorem for conserved quantities of, 23:52001
Newtonian electrodynamics from general, (T), 25:9052
no-interaction theorem in classical mechanics of special, 23:42730
nonstatic fluid spheres in general, 24:12622
null bundle of Einstein-Riemann space, 21:853 (AD-634257)
null fields in Einstein—Maxwell field theory, 21:33575
null hypersurfaces in, 21:44222
null tetrad approach to motions in empty space-time, 21:33580
observable values in special, transformation of general covariant, (T), 25:30970
observational data in support of, of gravitation, 21:13669
optics in general, transitions from wave to geometrical, 22:5660
oscillating spheres in, exact solutions for, 22:17292
oscillations of singular sphere in, (T), 22:43714
parameters of supermassive objects in general, (T), 25:943
parametrized post-Newtonian hydrodynamics and Nordtvedt effect, (T), 25:13943
particle acceleration in curved space—time in general, 24:8733
particle acceleration in general, Einstein vacuum equations for gravitational radiation from, 22:9686
particle acceleration to speed of light in general, 23:37002
particle calculations in special, formulation for Monte Carlo treatment of systems of, 22:18017 (LA-3839)
particle clusters in general, nonstatic spherically symmetric, 25:41095
particle de Broglie-wave field equations in special, 24:1652
particle energy in Mollers tetrad theory, (T), 22:7557
particle interactions in special, kinematics of two-body, 23:39816
particle kinetics in, unique canonical representation of inhomogeneous Lorentz group in, 21:3948
particle model in general spherical charged, 23:15244
particle models in general, extended, 24:45590 (JINR-E2-5271)
particle motion in Einstein general, field equation for, 25:53334
particle motion in Einstein general, field equations for, 25:53335
particle motion in general, 25:9874
particle motion in general, equations for, 23:51996
particle motion in gravitational fields, macroscopic and microscopic spinning, (T), 23:8847 (CEA-R-3563)
particle motion in linearized general, pole—dipole, 25:7730
particle motion in quaternion formulation of general, flat-space metric for, 23:46821
particle motion in, stochastic, 23:18995 (ITF-68-44)
particle motion with spin in general, additional conditions for equations of, 23:27875
particle paths in fields in general, geodesics of affine connection for, 25:53345
particle spin precession velocity in Schwarzschild field in, 24:28614
particle-like solutions of the Einstein equations for a scalar complex field, 21:23291(T) (AD-646931)
particles in special, dynamics of systems of N point-like, 24:37873
particles in, three-dimensional equations for two-body system of unequal-mass, 24:40466
Pauli algebra and structure of Lorentz group in, 21:13652 (AD-639651)
Pauli algebra and the restricted Lorentz group, (T), 23:18748 (AD-672821)
perihelion advance of Mercury, (T), 22:41258
perturbation, short-wavelength approximation in kinetic, (T), 23:41895
perturbations of long-period comet trajectories in, 21:29396
phase space description of quantum plasma in, (T), 23:44572
photon frequency shift in, high-order, 21:5343
photon interactions in general, comparison with quantum linearized field theories for cross section of, 23:23409
photon propagation in static and solar gravitational field in general, formula for frequency shift in, 22:39480
physical foundations of, 22:927
physical interpretation of five-dimensional space in, 21:44238
physical quantities in linearized general, isotropic tensor sources for scalarization of tensorial theory for, 24:8736
planetary motion in general, geodesic equation in quaternion representation for, 24:21513
planetary precession in general, 22:22456
Poincare group in special, theorem on simply transitive subgroups G_4 of, 23:8821 (IC-68/92)
Poincare invariance compatibility with general, 24:20235
polytropes in post-Newtonian approximation to general, rapidly rotating, 25:58495
polytropic spheres in general, (T), 23:12510
potential of moving electric and magnetic dipoles in special, equation for, 24:35629
precession of perihelion of Mercury in, discrepancy in, (T), 21:15237
precession of spinning satellite, (T), 21:9683
prediction of perihelion precession of Icarus, (T), 22:34185

primeval fireball, anisotropy of, 23:3815
principles of general covariance in, 21:11722(R) (N-66-20036)
principles of reciprocity and equivalence of monads in special, 23:1689
principles of, global and local, 25:38795
product of two surfaces in general, 21:3957
proof of time-dilatation with Moessbauer effect, 21:861
properties of event horizons for static, axially symmetric, vacuum space—timer, (T), 23:14586
properties of Lorentz group, quarternion and bivectors in, 21:7412
properties of massive spheres in general, extremal, (T), 22:52382
properties of TAUB-NUT space, 21:857 (NYO-3164-2, Lect. 13)
pulsation of stellar models in, nonradial, (T), 21:46057
quantization in general, 22:11731
quantization in space—time with zero curvature and uniform torsion, 21:44243
quantization of field fluctuations in general, 23:42747
quantization of general, 24:43040
quantization of general, 25:31003
quantization of general, Hamilton—Jacobi, 21:15242
quantization of general, review of, 25:9872
quantization of general, time and state functional in, 25:20095
quantization using integrals in curved functional space, 21:3954
quantum field equations and Bianchi identities for general, 25:33801
quantum field theory in special, for faster-than-light particles, 21:37915
quantum geometrodynamics and superspace in, 23:16998
quantum mechanical concept of electron, 21:44212
quantum theory of gravitation, Hamilton—Jacobi formalism of, 22:37195
quasi potential equation with local interaction in, 23:18752 (JINR-P2-4107)
radar determination of astronomical unit of length in, (T) , 22:43749
radiating spheres in general, energy-momentum tensor and exterior solution for, (T), 23:12510
radiating spheres in scalar—tensor theory of general, (T), 23:12510
radiation fields in general, pure, 22:53031
radiation news function in general, 23:25702
radiation of charged particle moving along cylindrical spiral in magnetic field in special, theory limitations for power and intensity of, 23:36877
radiative transfer in relativistic medium, (T), 22:13610
radiative viscosity in general, (T), 25:52581
radius vector in general, definition and uniqueness of harmonic, 24:22009
Rainich problem for electrovac space—times, 21:33555
reference frame in, general covariant definition of, 25:25502
reflected light signals in, 21:7405
regularity and boundary conditions for fluid spheres in, (T), 22:43822
relation between covariant and contravariant fundamental metric tensors in, 21:29400
relation between mass and energy in, 21:27259
relation of exspaces to Riemannian geometry, 21:7406
relation of red shift to velocity of recession in, 21:22952
relation to cosmology and thermodynamics, (T), 25:16736
relation to current research in physics, 21:18876
relation to Einstein's gravitation theory, 24:1253
relation to quantum mechanics, 24:20027
relations between electromagnetic field quantities of moving media, 23:46579
representation of four-dimensional Lorentz transformation, nonanalytic spinor, 21:17000
representation of Lorentz—Einstein metric of an inertial system, 21:21114
representations of the homogeneous Galilei group, 21:17007
representations of the inhomogeneous Lorentz group, canonical, 21:46439
rescattering singularities in special, maximum number of binary collisions for three-point particle, 23:27850 (N-69-14808)
research on general, development of free-precession nuclear gyroscope for, 25:15877 (AD-713633)
research program on, 21:7375 (AD-636507)
rest mass in special, relation with scalar potential field, 23:44717
restrictions of Einstein, 24:3764
review of cosmology, 22:2739
review of general, 21:3958
review of present state of general and special, 22:13854
Riemann space for coordinates based on subspace in general, coordinate conditions in, 25:41085
Riemann spaces in general, properties of four- and five-dimensional, 23:37001
Riemann—Einstein space in general, massive scalar meson field geometrization over, 25:36582
Riemannian geometry for neutrinos in general, 25:12280
Riemannian manifold in general, Weyl tensor for forms of, 24:37911
Riemannian space—time in general, for correspondence between formalisms for arbitrary-spin and direct-particle fields in electrodynamics, 24:10806
Riemannian spaces in general, Lie algebras of Killing fields for homogeneous, 25:53341
Riemannian spaces in, problems on, 21:23289 (ARL-66-0194)
Riemmanian metrics in general, matching of, 22:53028
rigid congruences in Einstein space-time, 21:11721 (N-66-19765)
Robertson—Walker cosmological solutions containing fluids, exact, (T), 23:39284
role in Einstein's theory of gravitation, 21:15250
role in stellar gravitational collapse, (T), 24:39742
rotating bodies in general, Machian effects of, 22:37191 (N-68-10738)
rotating bodies in general, Machian effects of, 22:41861
rotating bodies in general, triangular Lagrangian problem for, 24:35713
rotating bodies in, problem of two, 21:21107
rotating configurations in general, criterion for instability of uniformly, 25:33848
rotating disc as bridge between special and general, 23:21166
rotating disks in general, uniformly, (T), 24:4926
rotating disks in special, treatment of, (T), 25:38606
rotating masses and their effect on inertial frames, (T), 21:33110
rotational motion of planets in general, equations for, (T) , 23:16625
satellite spin precession in Brans—Dicke theory, Shiff, 25:14811
scalar function in pseudoeuclidean space in, expansion in relativistic invariant functions of, 25:56577
scalar-tensor theory in canonical form in, compatibility with Mach principle for, 24:30582
scattering of gravitational radiation by isolated target, (T) , 21:7444
Schwarzschild coordinates in, operational definition of, 22:9696
Schwarzschild field in general, convergence of approximation method for equation of motion of light body in, 25:53299
Schwarzschild field in, equation of motion of variable mass point in, 23:5681
Schwarzschild interior solution for field of fluid sphere of constant gravitational mass density in general, 22:44500
Schwarzschild interior solution in, embedding in flat five-space for relation with symmetry-preserving transformations for, 22:29766
Schwarzschild metric in general, differential equations for perturbations on, 24:37929
Schwarzschild metric in general, stability of, 24:37920
Schwarzschild metrics in general, test of exterior and interior, (E), 23:52000
Schwarzschild problem in, interpretation of coordinates in, 23:25125
Schwarzschild solutions for Kerr metric in general, 22:22452
Schwarzschild space in synchronized coordinates, 21:35242
Schwarzschild sphere in, collapse to, 21:28925
Schwarzschild's criterion for convective instability in general, 21:35237
self-energy of particles in general, 21:41776
seminar on, 21:538 (NYO-3164-2)
shells in general, sources of static symmetric fields in thin cylindrical, 23:34651
sign of gravitational force, 21:37640
singularities in cosmology, occurrence of, 21:1981
singularities in general, 22:26112
singularities in general, 24:28612
singularities in general, definition of, 22:50457
singularities in general, definition of, 25:43698
singularities in general, local characterization of, 22:35122
singularities in general, local observation of, 25:43695
singularities in general, motion and structure of, 25:14813
singularities in general, relevance of, (T), 25:24828
singularities in general, structure and motion of, 25:41096
singularities in general, trapped surfaces for development of, 25:59602
singularities in space time of general, definition, existence, and local characterization of, 22:53026
singularities in special, multitemporal theory of relativity for removal of, 22:41841
singularities in spherically symmetric initial solutions of coupled gravitational—massless scalar field—electric charge system in general, essential, 24:3761
singularity in general, 25:59595
singularity in general solution of gravitational equations, (T), 24:1258
singularity in general, tidal gravitational accelerations near arbitrary timelike geodesic in Schwarzschild space for definition of, 25:17580
singularity in general, Tolman solution for physical, 22:9691
singularity structure in general, 24:33050
solar gravitational field effects on annual parallaxes, (T), 23:25070
solar oblateness in, spin-down effects, 21:33059
solar oblateness, alternative cause of, 21:39718
solar rotation and the perihelion advance of Mercury, (T) , 22:36602
solution of collisionless Boltzmann equation in, (T), 21:40124
solution of Einstein equations which can be embedded in flat five-dimensional space, 21:17009
solution of Einstein field equations for evolution of homogeneous cosmological models, 25:16733
solution of Einstein field equations, combined Kerr-NUT, 21:15246
solution of Einstein—Maxwell equation for point particle with dipole moment, 21:33572
solution of Einstein—Maxwell equations for infinite charged dust cylinder, 21:23301
solution of Einstein's equations in isotropic coordinates, (T), 25:40330
solution of equations for class-one cylindrically symmetric electromagnetic fields, 21:5339(R) (NASA-CR-54718)
solution of field equations for empty space, Robinson—Trautman, 21:18850
solution of Jordan—Dicke field equations, (T), 25:35814
solutions for electrically charged fluid with infinite conductivity, 21:18846
solutions of Liouville and Poisson equations in, locally isotropic, (T), 23:14577
solutions of Tolman models of dust sphere in general, 23:18997
space generalization in general, relation with spinors for, 24:10847
space in general, complex 2-dimensional internal, 24:49591
space in general, complex two-dimensional internal, 24:6764
space in general, fibrous, 25:41106
space in general, geodesics of affine connection for point test charge motion in external electromagnetic field with radiation reaction in, 25:53090
space of simultaneous events in special, 24:1656
space structures in higher dimensions in general, 25:38791
space X_1 in general, Lagrangian functions in, 22:39487
space—time absoluteness in, proof of, (E), 24:45585
space—time and inertia in general, Mach principle for origins of, 22:9687
space—time as sheaf of geodesics in superspace in, 24:43051
space—time code in, 24:3728
space—time correlation functions of blackbody radiation in, 21:18844
space—time for elementary interactions in, review of, 23:30818
space—time for elementary particle events in, transition from continuous to discrete, 24:24430
space—time in general, asymptotic behavior of curvature tensor in asymptotically flat, 23:16999
space—time in general, causal structure in, 25:43699
space—time in general, changes in Petrov type, 23:15235
space—time in general, coordinate conditions in Riemann space for coordinates based on subspace for, 25:41085
space—time in general, curvature collineations in empty, 24:20237
space—time in general, dynamical spin for measurement of torsion of, 25:50183
space—time in general, evolution of Petrov type of, 23:7176
space—time in general, fibrous, 25:41106
space—time in general, horizons and analytic extensions in static two- and four-dimensional, 25:33846
space—time in general, Kerr metric in, 23:21167
space—time in general, measurement method for Riemannian structure of, 25:59608
space—time in general, observable effects of torsion in, 25:59605
space—time in general, regular null networks in flat, 22:35119
space—time in general, structure of, 24:33049
space—time in general, universal conventionalism for, 25:41098
space—time in, causal group in four-dimensional, 24:3768
space—time in, geometric properties of spherically symmetric KS-type, 23:42739
space—time in, Lorentz ensembles in stochastic theory of, 24:35714
space—time local isometric embedding in space of constant curvature in general, theorem on empty, 25:25516
space—time manifolds in, time ordering and topology for, 25:41104
space—time metric in general, related to plane source, 23:21165
space—time of class one in general, spherically symmetric, 22:41865
space—time pairs with corresponding geodesics in, 22:41712
space—time relations in four-dimensional continuum of general, global description of, 24:20233
space—time theory, survey of, 23:48697
space—time torsion in rotating and accelerated reference frames in, group deformations for, 25:59531
space—times containing perfect fluids and having a vanishing conformal divergence, 21:40133
space—times in general, causal boundary of, 25:41105
space—times in general, for coexistence of gravitational and electromagnetic plane waves, 24:28608
space—times in general, N-dual and PN-dual, 23:36997
space—times in general, N-duality and N-transitivity in spherically symmetric, 23:36996
space—times in general, Newman—Penrose constants in flat and asymptotically flat, 23:42749
space—times in general, particle and field conservation laws and symmetry properties of Riemannian, 24:10846
space—times in general, spherically symmetric, 24:6759
space—times in general, spinor structure of, 24:15675
space—times in general, spinor structures of, 23:3826
space—times in general, spinor treatment of stationary, 25:12278
space—times in general, spinor treatment of stationary, 24:40467 (KFKI-70-11-HEP)
space—times in general, total invariants of asymptotically flat, 22:44495
space—times in, causality in non-Hausdorff, 25:47699
space—times in, concircular scalar fields in spherically symmetric, 24:6743
space—times in, concircular scalar fields in spherically symmetric, 24:6742
space—times in, event horizons in static scalar-vacuum, 25:12282
space—times in, global properties of spherically symmetric, 24:28609
space—times in, review of, 24:33048
space—times in, symmetries of stationary axisymmetric empty, 25:38792
space—times of general, vanishing Lie derivative of Riemann curvature tensor for symmetry property of, 23:27864
space—times with metric potentials in, vanishing of total energy—momentum complex in general, 25:41087

space-time in, torsion-free world lines in curved, 25:20100
space-time metrics and nonlinear fields, 21:3941
space-times in general, Petrov classification of stationary axisymmetric empty, 23:44722
space-times in general, similarities of conformally related, 24:26499
space-times in, analysis of Newman-Unti integration procedure for asymptotically flat, 24:26509
spaces with electromagnetic and gravitational radiation in general, Newman—Penrose method for asymptotically plane, 24:37913
specific heat of degenerate electron gas in, (T), 21:5336
spectral displacements of quasars and, 21:3598
spectral theory for the Klein—Gordon equation with an external electrostatic potential, 25:12679
sphere in general, field equation solution for composite, 25:36583
sphere in, Lorentz group for relation of geometric objects in Minkowski space with spin and conformally weighted functions on, 25:7715
spheres in general, exact solution of static charged, 25:14810
spheres in general, exact solutions for dense massive, 25:33839
spheres in scalar—tensor theory in general, radiating, 22:46526
spherical space in Einstein, validity of, 24:20234
spherically symmetric problem in two-temporal, solution of, 24:10843
spherically symmetric problems in, 21:36991
spherically symmetric solution of the Maxwell—Einstein equations, 21:40134
spherically symmetric space-times, 21:3940
spherically symmetric systems in general, equations for, 22:22460
spheroidal collapse in, pulsating, 21:5341
spin-1/2 particles in gravitational field, 21:42227
spinor formalism in, 21:2340
spinor in general, Bel—Robinson, 24:40481
spinor techniques in, review of, 24:28602 (AD-701726)
spinors in general, generalized space relation with, 24:10847
stability of degenerate superdense stars in general, (T), 23:27246
stability of quasi-static solutions for system of mass points in, (T), 23:41889
stability of spherically symmetric star clusters, (T), 23:27316
stability of stars undergoing phase change, (T), 25:58425
star models in, rotating massive, 21:11368
static axially symmetric fields in general, 24:40473
static gaseous model of fluid spheres in, 21:13338
stationary model of the Universe in, (T), 23:41892
statistical mechanics in, 21:29403
stellar dynamics in rotating axially symmetric systems, (T), 23:34140
stellar gravitational collapse in, 21:22954
stellar structure and dynamics in, (T), 22:15320
stellar structure and dynamics of, 22:922
stellar structure and stability in, hot massive, 23:14435
steller structure and stability in rotation in, 21:31161
stochastic processes in μ-space, (T), 23:5195
structure and gravitational field of uniformly rotating disks in, (T), 25:43092
superluminal inertial frames in extended, 24:18277
superspace for dynamical theory of general, 25:7736
superspace in general, 25:9872
superspace in general, quantum geometrodynamics for, 24:33051
superspace in, (T), 24:43050
surface layer in general, integral form of field law for, 24:30583
surface layers with cylindrical symmetry in general, 25:1636
surfaces in general, development of trapped, 25:17575 (AD-713140)
symmetry for general, semidirect product for BMS group in, 25:20091
symmetry for linearized general, semidirect product for invariance group in, 25:20091
symmetry of four-dimensional space in general, SU(3) $/Z_3$, 22:1458 (NP-17076)
tachyon properties in, causality arguments for, 24:6754
tachyons in, 24:40462
tachyons in special, causal loops for evidence against, 25:14778
tachyons in special, causality paradoxes for, 24:26480
tachyons in special, causality violation in correlated, (E), 23:42736
tachyons in special, properties of, (E/T), 23:30806
tachyons in, consequences in physics for, 24:22007
tachyons in, free, 25:41081
tachyons in, localization and infinite-multiplet wave equations for spacelike states for, 24:10829
tachyons in, properties of, 24:8735
tachyons in, Regge trajectories for space-like momentum transfer for existence and properties of, 24:6768
temperature in special, invariance of, 23:16983
tensor calculus in, 21:25218
test for general, decisive, (T), 25:58664
test of Brans—Dicke scalar—tensor and Einstein tensor general, from Brans solution for gravitational collapse, 24:3765
test of Brans—Dicke scalar—tensor theory of general proposed Schiff gyroscope experiment for, 22:9689
test of Einstein general, superfluid relativity gyroscope for, 25:5422
test of Einstein theory of general, preliminary results of experimental, 22:32211
test of general, by superconductor measurement of Lense—Thirring field, 21:2343
test of general, computer approach to Shapiro fourth, 21:13653 (AD-639733)
test of general, metric for 4th, 25:20097
test of general, minor planet Icarus approach to earth as, 22:39483
test of general, pulsars for, (T), 23:1147
test of general, radar transmission from Earth to planets as, 25:33836
test of general, rapidly pulsating radio sources and Earth's orbit for, (T), 22:31556
test of general, use of low-temperature techniques for, (E), 24:42860
test of general, using artificial satellites, 25:47967
test of general, using laser ranging to moon, 22:3529
test of general, using laser ranging to moon, 22:37193
test of general, using operationally defined coordinates, 22:9696
test of general, using pulsers, (T), 22:52351
test of general, using the orbit of Icarus, (E/T), 25:49691
test of special, (E/T), 24:28601
test of special, at small distances from velocity dependence of charged meson (π) lifetime, 22:35084
test of special, Michelson—Morley experiment for, 23:44712
test of special, μ^- lifetime measurements for, (E), 22:9669
test of special, precision experiments for, 22:39472
test of validity of special, from cosmic meson (μ) energy spectra, 23:27858
test of, deflection of 9.602-GHz radiation from 3C279 in solar gravitational field for, (E), 24:35076
test of, deflection of radio waves in solar gravitational field for, (E), 24:35075
test of, using frequency shift of pulsars in solar gravitational field, (T), 23:3208
test of, with gyroscopic satellite, (T), 21:46432 (N-67-19245)
testing of general, using Moessbauer effect, 22:20074
tests for general, high-precision, (T), 24:17606
tests of general, (E), 25:53338
tests of general, effects of solar oblateness on, (T), 25:35809
tests of general, experimental,, 24:1254
tests of general, for nearly flat space with spherical symmetry, 21:21111
tests of general, generalization to tensor interactions for special relativistic action-at-a-distance theory for, 25:45811
tests of general, review of astronomical, 22:13859
tetrad formulation of energy—momentum complex in, cosmological applications of, 21:16744
tetrad formulation of junction conditions in general, 22:18020
tetrad theories as reference systems in general, 25:56568
theories of gravitation in general, 21:42232
theory for classical and quantized general, 25:53297
theory for coordinate-free, 25:59588
theory for general, linearized, 24:37899 (NYO-2262-TA-218)
theory for general, observed values in, 22:1504
theory for general, relation of matrix, spinor, and tensor methods for Petrov classification of gravitational fields in, 24:10845
theory for general, review of global, 25:53340
theory for general, spin-0 component from general linear, 23:51997
theory for general, two- and three-body motion in, 22:9695
theory for general, unification of quantum field theory and, 25:41099
theory for special, 22:5639
theory for special, 22:5638
theory for special, 25:41073
theory for special, empirical foundations of, 25:12265
theory for special, event description in, 22:7549 (JINR-P2-3482)
theory for special, historical review of, 25:43690
theory for special, solution of Ehrenfest paradox for rotating disk in, 22:17999
theory for, development of laws and perspectives in, 22:22333
theory for, Moessbauer technique for elementary length in, 22:20156 (INP-555/PH, pp 93-8)
theory for, paradoxes in, 22:3525
theory of Einstein, Infeld, and Hoffman, post-Galilean transformation for post-Newtonian, 21:21118
theory of general, lectures on, 25:45808
thermodynamics in special and general, 23:23550
Thomas precession with velocity metric for charged particles in, reformulation of Frenkel—Kramers model for, 24:1650
time at relativistic velocities in Einstein, validity of, 24:20234
time dilation and length contraction in special, 23:27855
time dilation and length contraction in special, Galilean transformations for, 24:5340
time dilation in special, Cherenkov and scintillation counter study of meson (π^-) and (π^+) lifetimes for test of, (E), 24:3547
time dilation in special, for atomic clocks, 25:22894
time in special, measurement of, 25:22893
time in, Caratheodory principle for, 24:28592
time measurement in special, realizable atomic clock in moving reference frame for, 24:45576
time reversal invariance using Moessbauer transmission of 73-keV transition in iridium-193, 22:34805 (AD-662675)
time-dependent internal solutions for gravitational collapse in, 21:43721
time-dependent internal solutions for spherically symmetrical bodies in, 22:38675
timelike helices in flat space—time, 21:33552
topology for global analysis of world models in, 21:33581
torque in special, 25:9866
transformation of electromagnetic field from Coulomb's law and, 21:27272
transformation of vector fields in, 21:7440
transformation to rotating coordinates, (T), 25:941
transformations to rotating frame in, paradox in, 25:28075
translational inertial spin effect, 21:7404
trapdoor paradox in, (T), 25:49687 (CONF-690732, pp 6.1-8)
Trouton—Noble experiment for special, 24:20218
twin paradox in general and special, 21:42236
twin-effect and acceleration redshift, (T), 23:27321 (AD-678889)
twistor quantization and curved space-time, 22:45878
two-body problem in classical relativistic mechanics, 21:18849
uncertainty principle, analysis of, 21:21116
unified field, and mathematically defined gravitational world, 21:13654 (AD-641908)
uniqueness of general, derivability of equations of motion from gravitational field equations for, 22:39484
unitary, for electromagnetism and gravitation, 21:46453
universal constants in special, 23:18971
universe in general, mass—energy of spherically symmetric distributions of material in general relativity theory for model, 24:26508
use for atomic wave function modifications, 21:15247
use in determination of stability of core burning in supermassive stars, (T), 25:22232
use in formulation of field theory from symmetry principles, (T), 24:28058
use in quantization of the gravitational field, (T), 24:1256
use in thermodynamics of moving systems, 23:5496 (UCSD-10-P-11-82)
use of general, for motion of rotating spheroidal bodies, 22:19703
use of general, to investigate internal structure of rotating white dwarfs, 21:6911
use of post-Newtonian approximation of general, for structure of rotating polytrope, 24:1127
use of special, for Alfven wave growth in relativistic gases, (T), 24:5038
vacuum in general, Mach principle for physical, 24:49599
vacuum solutions in general, null-type, 22:46525
validation of special, experimental high-energy analysis of, 21:18858
validity at small distances of special, from velocity dependence of μ lifetime, 22:3363
validity of special, 22:46506
validity of special, in quantum theory, 22:44498
validity of special, photon mass and particle velocity for, 23:51984
validity of, in face of Dicke's criticisms, (T), 24:1255
validity of, measuring with satellite clocks, (T), 23:14594
variation of Newton's constant, test for possible, (T), 22:41249
variational deduction of spinor field equations, 21:35239
variational formulation of fluid thermodynamics in, (T), 25:58674
variational principle for rotating stars in, (T), 25:838
variational principle in general, general formulation of tetrad, 25:59600
variational principle in scalar hydrodynamics, 21:21119
variational principle in, solution of Einstein-Schroedinger connection equations in antisymmetric case of hypercomplex unitary theory for, 25:1634
variational principles in general, invariance properties of spinor Lagrangians for, 23:36999
vector and tensor techniques in special, in Minkowski space, 22:35110
vectorial representation of curvature in general, 21:7408
vectors in Einstein, 24:3764
velocity addition formula in special, geometrization of, 23:39815
velocity of cosmic objects, Hubble relation for, 22:43814
verification by radar returns from Mercury, (E), 22:41188
verification of general, review of experiments for, 23:39827
verification using earth satellites, (T), 21:7397
verification using precession of satellite orbits, 21:3955
Vierbein formalism in general, nonlinear realization of GL(4,R) symmetry for, 25:17582
virial relations for uniformly rotating fluid masses in general, 21:13320
wave equation for nonzero rest-mass particles, positive energy, (T), 25:38620
wave equations for higher spin and quantization of, 23:12996
wave equations in general, conformal transformations for propagation theory of scalar, 24:28606
wave functions, screening constants for, 21:5342
wavefront in special, expanding, 23:44716

RELAYS
defects in hermetically sealed, use of radiographic method to locate, 22:12558 (N-67-23261)
design of radiation, for interlock system for removal of coke from ovens, 21:41066
design of radiometric, for three-position controllers, 21:3330
development for protection of synchronous motors during power transients, 23:31449 (DUN-5767)
failure in reactor circuits, detection method for, 24:39393
modules for safety and control circuits, manual on standard, 21:2897 (TRG-Report-933(Pt.2))
performance of radiometric, using G—M counter, method for improving, 22:23355
performance of reactor control system, failure and malfunction analysis for, 24:26842
radiation hazards from vacuum electric, x, 23:9939 (ORNL-4316, pp 231-69)
stability of radiometric, calculation of, 22:33677

REMOTE-CONTROL EQUIPMENT
see also Laboratory Equipment
see also Servomechanisms
calibration and installation of Charpy-V impact machine, 22:38589(R) (AD-663888)
conference on technology of, Idaho Falls, Idaho, March 11 to 13, 1969, 24:455

- connector for, design of, 24:46550(P)
- description for LAMPF target area, 23:3873
- description of, for accelerators maintenance, 21:19108
- design and operation for deploying 10,000 Ci cesium source from helicopter, 25:21247 (TID-24270, pp C.23-36)
- design and operation for drilling and milling, of reactor pressure vessel steels, 22:19577 (BNWL-455, Paper 9.1-34)
- design and operation for repair of hot cells, 22:37831 (CEA-N-856, pp 434-44)
- design and operation of metallographic, for Savannah River Laboratories, 21:6810
- design and operation of, for preparation of irradiated metallographic specimens, 21:9201 (RFP-658, pp 76-83)
- design and operation of, for radiometric well logging system, 24:14145(P)
- design and operation of, in Quehanna Cell 4 Process, manual for, 21:32292 (MND-3062-24)
- design and performance of Mascot III, 22:33588
- design and performance of, for organic cooled reactor components and fuels, 21:15663 (RT/ING-(66)5)
- design for alignment of ring magnets for Brookhaven AGS, 24:46549(P)
- design for analysis of Eurochemic reprocessing solutions, 22:40030
- design for changing needles for handling radioactive liquids, 22:12565(P)
- design for chemical analysis of radioactive sodium, 24:9985 (BNWL-1200-1, pp 4.1-30)
- design for dose and temperature control in irradiation facilities, 23:9633(P)
- design for drilling irradiated fuel containers, 21:27847(P)
- design for EBR-II fuel cycle facility, 21:21755(R) (ANL-7302)
- design for elevated temperature tension testing of radioactive specimens, 21:39607(R) (AD-650349)
- design for examination of high-burnup plutonium, 22:42994 (ANL-7299, pp 173-97)
- design for examination of irradiated fuel microspheres, 24:16738 (CONF-690910-, pp 420-34)
- design for examination of irradiated space reactor fuel pellets, 24:16737 (CONF-690910-, pp 413-19)
- design for explosive plug welding of tubes, 25:13647
- design for fuel reprocessing pilot plant, 22:6420
- design for gamma scanning of fuel rods, 25:26550 (RT/ING-(71)1)
- design for gripping cable lengths in restricted areas, 21:36228(P)
- design for handling equipment, 22:30763(P)
- design for hot cell master-slave manipulator, 21:34377(P)
- design for inert-atmosphere shielded analytical and sampling facilities for FFTF, 24:5582 (BNWL-1216)
- design for maintenance of space nuclear power plants, 21:4404
- design for measuring internal friction in radioactive materials at -196 to 700°C, 22:25577
- design for mixing radioactive materials, 22:2475(P)
- design for monitoring chemical content and radioactivity in FFTF coolant sodium, 25:13195 (WHAN-SA-91)
- design for oxide fuel fabrication, 21:5705 (ORNL-P-2391)
- design for pipetting radioactive liquids, 22:37915
- design for polarography, 22:4059(P)
- design for positioning crane in hot cell, 22:49063(P)
- design for positioning motor-driven movable member, 21:27849(P)
- design for sample loading in reactor experimental facilities, 24:38612(P)
- design for sampling FFTF sodium, 25:51764 (HEDL-SA-123)
- design for sampling radioactive liquids, 22:4061(P)
- design for triggering calciothermic reactions in plutonium and uranium production, 25:10760(P)
- design for ultrasonic testing of irradiated reactor materials, 24:406
- design for use in studies of radioinduced chemical reactions, 24:41598
- design for x-ray angiography, 23:47882
- design of balance for use in high-radiation environment, 22:2468
- design of control rod position indicator, for maritime pressurized-water reactor, 22:12512(P)
- design of digital automatic positioning, 23:43538
- design of electrically operated, for handling heavy objects in hot cells, 21:1546
- design of electrohydraulic servo drive for mechanical oscillator mechanism, for HTLTR, 21:46939 (BNWL-535)
- design of electromagnetic, for use in drilling operations or in reactor fuel channels, 21:16058(P)
- design of fluid couplings for, 24:44181(P)
- design of gripper for EBR-II fuel unloading machine, engineering drawings for, 24:27292
- design of holder for multiple pipets, 21:43120(P)
- design of master-slave manipulator, 22:25595(P)
- design of metallographic, review on, 24:2872
- design of miniature hot press, for fabricating radiation sources, 21:19857
- design of plankton sampler, engineering drawings for, 21:34498
- design of rotary manipulator for hot cells, 21:39095(P)
- design of safety, for irradiation facilities, 23:17651(P)
- design of servo controlled, 21:4653(P)
- design of television-camera-incorporated, for gripping shapes in restricted areas, 21:36226(P)
- design of, for activation analysis, 21:19584(P)
- design of, for batch-sequential processing of radioactive liquids, 21:12492(P)
- design of, for fabrication of HFIR target elements, 21:6775
- design of, for filtration and fusion, 24:2100 (IN-1316, pp 41-59)
- design of, for fixation of radioactive waste in glass bodies, 21:12515(P)
- design of, for fuel element fabrication, 21:6861
- design of, for fuel tube compaction, 21:6863
- design of, for monitoring oxide content in liquid metals, 21:10298(P)
- design of, for preparation of radioactive metallographic specimens, 21:9202 (RFP-658, pp 84-96)
- design of, for transfer of radioactive fuels, 21:6862
- design, fabrication, and testing of corrosion-resistant pipetter, 21:1421(R) (ORNL-3965)
- design, fabrication, and testing of, for Transuranium Processing Facility, 21:1421(R) (ORNL-3965)
- design, installation, and maintenance of, in TRU, 21:6176
- design, operation, and uses of teleoperator, conference on, 24:33828 (NASA-SP-5081)
- development for 200-GeV proton synchrotron, economics of, 21:27470 (UCRL-17247)
- development for fuel examination hot cells, 25:58344(R) (LA-4693)
- development for handling debris from underground nuclear explosions, 21:6173
- development for maintenance of 200-GeV proton synchrotron, 21:27469 (UCRL-17195)
- development for reactor maintenance, 24:2418 (ORNL-TM-2712)
- development for retorting in recovery of uranium from magnesium—zinc solutions, 23:43378 (ANL-7503)
- development for underwater charging operations, 21:237
- development of 50-lb capacity, electric, at ANL, 21:6115
- development of mobile, for use in industry and space exploration, 21:6113
- development of supervisory, for use in inaccessible areas, 21:45287
- duct system design for, in concrete-shielded reactor, 21:8169(P)
- extensometer design for use in detrimental environment, 21:34379(P)
- head-controlled television equipment for, 21:6114
- installation and testing of, for automatic radiation monitoring system, 21:41060(R) (AD-647350)
- installation of vertical assembly and disassembly machine in Argonne Fuel Cycle Facility, 21:40536 (ANL-7349, pp 2-91)
- maintenance of EBR-II fuel cycle facility, 21:7931
- maintenance of electromechanical manipulators, 21:45191 (ANL-7325, pp 19-49)
- maintenance of, at ORNL, 21:6116
- manipulator brake system development, 21:23589(R) (ANL-7308)
- manipulator control system design, 21:36227(P)
- manipulator design for hot cell, 21:8511(P)
- manipulator gear system development, 21:23589(R) (ANL-7308)
- motor for manipulators, design of low-inertia servo, 21:31898(R) (ANL-7329)
- performance and uses in nuclear industry, 22:19009
- performance for repair of Savannah River C Reactor moderator tank, 24:22848 (DPSPU-69-30-12-X)
- performance of fuel element assembler—dismantler, 21:34076(R) (ANL-7342)
- performance of metallographic, for grinding, 21:4916 (KAPL-M-6444)
- performance of MSRE maintenance, 21:7924
- performance of, in analysis of irradiated carbide fuels, 22:43629(R) (LA-3933)
- position indicator for, design of electric, 22:19026(P)
- position indicator for, design of electrically operated, 22:12502(P)
- power supply for remote sensing at distribution bus, design of, 21:10715
- sampling device for graphite channel walls, description of television monitored, 22:12151(P)
- seal design for, fusible metal, 21:6105
- shielding for reactor maintenance, 21:8139
- use in early radioisotope production program, 21:17788
- use of, for positioning film cassettes, 21:6525
- vacuum pycnometer design for measuring bulk volume of reactor fuel pellets, 21:19832
- wrench design and performance for use with manipulating, 21:30093(R) (ANL-7317)

REMOTE HANDLING

- device for, of irradiated fuel rods, 21:12566(P)
- lifting mechanism design for, of shielded vessels containing radioactive material, 21:12563(P)
- method for ruptured radium sources, 24:33860 (BRH/SERHL-70-1)

REMOTE-HANDLING EQUIPMENT

  see also Hot Cells
  see also Reactor Loading Machines

- arm for, design of multiply oriented mechanical, 23:21931(P)
- boot for manipulator, design of Krene plastic, 23:21929
- calibration of fuel element gripper and holddown force-limit, 22:30118 (ANL-7438)
- computer based humanoids, for hot cells, 23:2712
- conference on remote systems technology, Washington, D.C., Nov. 1970, 25:51779
- conferences on, indexes to 14 ANS, 21:28129 (SC-R-67-1056)
- configuration of Fermi Fast Breeder Reactor core inlet plenum tools, description of, 22:50700 (APDA-CFE-22)
- configuration of in-pile O-ring-connected concentric cylinder rotating pneumatic extension-arm, description of, 22:50860(P)
- configuration of reactor in-pile loop fast neutron cryogenic, description of, 22:53430
- control of EL-4 fuel transfer, performance of digital computer system for, 23:40302
- control of pneumatic tube transfer system, microphone switch for, 23:16210
- cost analysis for disassembly and reassembly of test reactor core components and test assemblies, 25:39312 (ORNL-TM-3400)
- decontamination and maintenance of Marcoule pilot plant hot cell, 24:20963 (CEA-CONF-1412)
- decontamination of, 23:6 (IN-1203, pp 37-51)
- decontamination of, in radioisotope separations plants, 21:6110
- decontamination of, radioactive waste production from, 25:46608 (BNWL-B-90)
- description for disassembly of SNAP-10 test facility, 22:3880 (NAA-SR-12504)
- description for maintenance of CERN Synchrotron ring tunnel, 23:28075
- description for maintenance of experimental facilities for LAMPF, 23:28073
- description for preparation and examination by electron microscopy of hazardous powders, 24:27321
- description of Attila hot cell, 25:4261 (CEA-R-4067)
- description of common external drive unit for control rod, 22:3947(P)
- description of common external drive unit for control rod, 22:3949(P)
- description of EBOR, 22:18555(R) (GA-7485)
- description of EBR-II, for refueling procedure, 21:35631
- description of Fermi Fast Breeder Reactor in-core, 22:32885
- description of Fermi Fast Breeder Reactor vacuum cleaning, 24:7010
- description of FFTF closed loop system test installation, 23:11274 (BNWL-852)
- description of force-reflecting servomechanism with signal delay for, 22:33180
- description of gas-cooled reactor sealable, 23:9172(P)
- description of heated mockup SEFOR fuel assembly, 22:22814(R) (GEAP-5498)
- description of hot cell, 25:57054 (ANL/EBR-30)
- description of independent fuel element, for multi-assembly reactor core, 22:14357(P)
- description of Kyoto University Reactor hot cell, 23:45501
- description of light- and medium-duty power manipulators, 22:42940
- description of liquid-sealed pressure vessel cover lifting device, 22:14329(P)
- description of Mark II and Mark IV manipulators for positioning targets for secondary beam production in AGS, 21:38115
- description of master-slave manipulator, with counterbalanced pivotally connected telescoping multi-tube extension arms, 22:27981(P)
- description of master-slave manipulator, with multi-tube telescoping and rotatable slave arm, 22:27986(P)
- description of master-slave manipulator, with variable resistor electric transducers for fluid pressure drive motor response, 22:27980(P)
- description of master-slave manipulator, with variable magnitude movement extensions for pivotally connected arms, 22:27989(P)
- description of microsampling, for preparation of radioactive materials for analysis, 22:27957 (WAPD-TM-685)
- description of NASA Research Reactor experimental facilities, 22:33067
- description of precision actuator and shaft encoder, 25:50470
- description of service rigs for DIDO Reactors radiation target cans, 23:11270 (AERE-M-2132)
- description of servo-manipulator, for maintenance of accelerators, 23:28074
- description of shielded irradiated sample-removal, 22:37573(P)
- description of swimming-pool reactor level-actuated gripper with extension arm, 22:37547(P)
- description of vertical rotating carousel, 23:11369(P)
- description of water-submerged transfer container for reactor spent fuel transport, 22:50859(P)
- description of, for zirconium inlet plenum sections for Fermi Fast Breeder Reactor, 23:9071 (APDA-CFE-24)
- design and fabrication of multimotion, for use in ultrahigh vacuum systems, 22:33591
- design and operation at AERE, review on, 25:316
- design and operation for TRU intercell transfer, 22:8329 (ORNL-TM-2022)
- design and operation of, 22:8252 (EUR-3629)
- design and operation of FFTF, for fuel elements, 24:456
- design and operation of grip-slide-type, for radioactive material, 22:49056(P)
- design and operation of in-cell TURF, for reprocessing of reactor fuels, 25:4303
- design and operation of pneumatic burette, for measurements of radioactive materials, 23:600
- design and operation of reactor fuel element disassembly, 22:45220(T) (ORNL-tr-1976)
- design and operation of, effects of physiological factors on, 24:31552
- design and operation of, for control of radioactive materials in hot cells, 24:31655
- design and operation of, for fabrication of plutonium-bearing fuel elements, 24:31548
- design and operation of, for Juelich alpha-tight hot cells, 24:31557
- design and operation of, for materials transfer in Juelich hot laboratories, 24:31547
- design and operation of, for preparing radioactive drill core samples for radiochemical analysis, 25:4307
- design and operation of, for RCN hot cells at Petten, The Netherlands, safety aspects of, 24:31555
- design and performance of Mascot III, 22:33588
- design and performance of servo-powered master-slave, for use in high-energy particle accelerator environments, 24:14118 (BNL-13810)
- design and uses of master-slave manipulator, 23:50088 (BNL-13867)
- design characteristics of liquid sodium cooled fast reactor, 25:60087
- design drawings and parameters for FFTF core components and test assemblies disassembly and reassembly, 24:11269 (ORNL-TM-2759)

design for 250-W strontium-90 fueled radioisotope thermoelectric generator for Nimbus-B/Agena-D spacecraft, 21:26069 (TID-23659(Vol.3))
design for advanced irradiated fuels, trends in, 24:474
design for assembling components in hot cells, 25:13200(P)
design for assembly of hot cell components for dry processing of reactor fuels, 25:13199(P)
design for assembly of nuclear rocket engines, 22:4319
design for automatic exchange of fuel particles in spheres, 21:1221 (JUL-378-RG)
design for cathodic etching of metal samples, 24:14130 (UCRL-71559)
design for centrifugal pump removal from reactor pressure vessels, 21:30311(P)
design for closing lid to radioactive material shipping container, 22:48991(P)
design for closure for shielded container, 22:49058(P)
design for collection of liquid fractions, 24:4417(P)
design for connecting and disconnecting flanged ducts, 23:2468(P)
design for decontamination of hot cells, 22:12510(P)
design for disassembly of nuclear engines, 22:4321
design for engaging and transporting hollow tubular fuel elements, 23:24416(P)
design for Essor reactor, 25:18627
design for examination of irradiated fuel microspheres, 24:16738 (CONF-690910-, pp 420-34)
design for examination of irradiated plutonium, 22:4377
design for fabrication of Kilorod Facility fuel elements, 22:49798
design for fuel element assembly, 21:39105(P)
design for fuel element disassembly, 21:30525(P)
design for fuel elements, 23:9685(P)
design for fuel reprocessing pilot plant, 22:6420
design for ground handling of radioisotopic heat sources for space power systems, 21:41153
design for handling fuel elements, 21:45291(P)
design for handling of radioactive objects, 23:7720(P)
design for handling radioactive materials in glove boxes, 23:602(P)
design for handling radioactive materials in hot cells, 21:34381(P)
design for hanging shielded container in storage holes, 22:49057(P)
design for high-energy and high-intensity accelerators, 23:15323
design for hot laboratories, manual on safety aspects of, 24:7867 (STI/PUB-169)
design for irradiated fuel elements, 25:42044(P)
design for irradiated fuel examination cell, 24:460
design for lifting and moving radioactive material, 25:54853(P)
design for lifting radioactive materials in hot cells, 23:9687(P)
design for liquid transfer system, 22:37922(P)
design for Livermore neutron-shielded chemistry cells, 22:4405
design for loading a filter for radioactive gases, 22:10464(P)
design for loading and unloading flasks at hot cells, 21:43104(P)
design for maintenance and repairs in radioactive zones of CERN synchrotron, 22:13878(T) (BNL-tr-180)
design for maintenance and welding of ends of nest of tubes, 24:36462(P)
design for maintenance of beam-line components and shielding of 20-GeV proton accelerator, 25:53458
design for mechanical testing of irradiated materials, 22:4378
design for microscope sample handling in hot cell, 25:32199(P)
design for microsphere-type reactor fuels, 24:19186 (ORNL-TM-2782)
design for monitoring solutions from reactor fuel reprocessing, 23:19847(P)
design for NRU reactor cleanup, 22:4409
design for object removal from core inlet plenum of Fermi Fast Breeder Reactor, 22:32738 (APDA-CFE-19)
design for opening sealed capsules in hot cells, 22:49052(P)
design for opening sealed capsules in hot cells, 22:49051(P)
design for packing radioactive pellets in tubes, 22:19025(P)
design for passing manipulator through shielding wall, 22:49054(P)
design for poisonous or radioactive materials, 25:54978(P)
design for positioning instrument table, 23:13924(P)
design for positioning samples for stereoscopic inspection in ANL Fuel Cycle Facility hot cell, 25:51796
design for preparation of irradiated metallographic specimens, 23:26987
design for processing underground explosion drill cores, 25:51794
design for radioactive liquid sampling, 22:25581(P)
design for radioactive materials, 25:57719(P)
design for radioactive materials, 22:37964(P)
design for reactor fuel elements, 23:29120(P)
design for refueling during reactor operation, 21:4419(P)
design for remotely sampling graphite in a nuclear reactor, 22:6525(P)
design for removal of irradiated fuel elements, 22:37964(P)
design for removal of lid on radioisotope container, 22:47272(P)
design for removing or replacing equipment in hot cells, 22:51212(P)
design for removing sample from horizontal beam hole, 23:17649(P)
design for sample irradiation in neutron beams, 22:35979
design for sample transfer between hot cell and conveyor vessel, 22:19021(P)
design for sample transfer in irradiation facility, 23:17653(P)
design for sample transporting in activation analysis, 22:37691(P)
design for servicing equipment inside shielded housing, 22:4334(P)
design for servicing reactor fuel and control rod assemblies, 24:47978(P)
design for spent fuel elements, 24:41643(P)
design for submerged fuel element, 23:16071(P)
design for tensile testing in hot cells, 23:13906 (NRL-6765)
design for titration, 23:6 (IN-1203, pp 37-51)
design for transfer of alpha emitters in containment boxes, 25:51804
design for transfer of equipment and materials in hot cells, 23:24354(P)
design for transfer of small plutonium samples, engineering drawings for, 22:45227
design for transferring irradiated samples to storage, 25:32197(P)
design for transporting multisample holder to irradiation position, 25:13208(P)
design for TURF, 25:51790
design for TURF californium facility, 25:51791
design for ultrasonic inspection of radioinduced embrittlement in steel, engineering drawings for, 22:40493
design for underwater-handling of HFIR components, 21:8084
design for uranium-233, 22:4406
design for use during preparation of high-level radioactive aerosols, 22:23406 (LF-38, pp 88-91)
design for use in hot cell or swimming pool reactor tank, 23:7720(P)
design for use in sealing solid radioactive waste in cans, 23:6 (IN-1203, pp 37-51)
design for use in welding, 21:28145(P)
design for use with ball crusher, 24:19132(P)
design for waste solidification facility, 23:17725 (BNWL-968)
design for weighing nuclear materials at processing plants, 25:4296
design of, 22:4335(P)
design of adjustable rest position selector for, 22:35980(P)
design of adjusting device for slave unit for tape driven, 22:10465(P)
design of Argonne Low-Power Research Reactor, for irradiation studies, 21:35739
design of automatic sample handling system for scintillation counting, 22:49064(P)
design of auxiliary tongs for power driven, 22:51213(P)
design of bag transfer unit for moving radioactive materials in Livermore neutron cells, 21:43094 (UCRL-70494)
design of balance for weighing radioactive materials in air and liquid medium, 22:8426(P)
design of biologically safe, for introducing or removing objects from hot cells, 23:2486(P)
design of control system for, 22:30763(P)
design of counterbalanced, 22:37916(P)
design of electromagnetically operated, for lifting and lowering objects, 22:51215(P)
design of extended reach sealed master-slave manipulator, 23:517(P)
design of fast reactors, 25:46274
design of finger, for use in ETR, engineering drawings for, 21:12560
design of fluid-tight passageway for filling containers with radioactive materials, 24:7623(P)
design of force-reflected manipulator for radioisotopes, 22:10472(P)
design of gas cooled reactor, for fuel element stringers, 24:9168(P)
design of grab-manipulator for, 22:49053(P)
design of grab-type, for handling reactor core components, 24:36546(P)
design of grabs, wedges, and rollers for removal and replacement of graphite moderator blocks, 25:28828(P)
design of grapnel-type, for handling radioactive materials, 25:32198(P)
design of grappling system for removing fuel rods from reactor core, 21:39111(P)
design of grasping, for radioactive materials, 25:51777(P)
design of gripping tongs for, 22:14660(P)
design of heavy duty electric-powered, for hot cell processing of solid radioactive wastes at Karlsruhe, 24:25184
design of hot press for use in glove boxes and hot cells, 21:41062 (ORNL-TM-1900)
design of hot-sample changer and transfer cask for nuclear explosion neutron source experiment, 23:7679
design of hydraulic rabbit, for reactor experimental facilities, 25:10274
design of improved master-slave-type, 25:13206(P)
design of independently operated mobile, 23:11698(P)
design of manipulator for hot cell, 23:2550(P)
design of manipulator for hot cell, 23:11748(P)
design of manipulator glove for glove box, 22:4332(P)
design of manipulator with balanced slave arm, 22:10468(P)
design of manipulator with hoist, 23:9635(P)
design of master slave manipulator, 23:17737(P)
design of master slave manipulator, with inproved articulation, 22:8286(P)
design of master—slave, for hot cells, 22:2337(P)
design of master-slave manipulator, 22:25595(P)
design of master-slave manipulator for use in hot cells, 22:51216(P)
design of motor-driven manipulators for, 22:35988(P)
design of pneumatic, for automatically transferring samples between irradiation and detection positions, 22:35973 (LA-3862)
design of precision handling arm for power-operated, 22:27979(P)
design of pressurized glove port for dry boxes, 22:4331(P)
design of radioactive foil transporter using automatic slide projector, 23:7896
design of radioactive-source transfer system, 22:43019(P)
design of reactor maintenance, for fuel element stringers, 24:9169(P)
design of remotely controlled hoist for material handling, 22:49063(P)
design of rotating-claw tongs for, 22:49055(P)
design of sample elevator, for liquid scintillation analysis, 22:14901(P)
design of sealed master-slave, 25:54990(P)
design of SEFOR instrumented fuel assembly, 23:26047 (GEAP-5615)
design of shielded hovercraft-type, for operators in radiation environments, 22:47275(P)
design of specimen polisher for use in hot cells, 22:12518(P)
design of terminal head for conduit-type pneumatic, 25:2427(P)
design of thermal manipulators for use in ultrahigh vacuum, 22:19089
design of tongs for manipulations in high vacuum, 23:21933
design of transfer systems for Livermore neutron cells, 21:43094 (UCRL-70494)
design of underwater charging machine for reactor irradiation sample insertion, 25:41510
design of unidirectional rotary, for use with polishing machines, 24:25190(P)
design of vertical assembler—dismantler for EBR-II fuel cycle facility, 24:29416 (ANL/EBR-10)
design of vertical assembler—dismantler for EBR-II-type fuel elements and core subassemblies, engineering drawings for, 24:477
design of vertical assembler—dismantler for FFTF core subassemblies, engineering drawings for, 24:477
design of, for use in ATR, engineering drawings for, 21:12559
design of, for welding in construction of EL-4 reactor, 21:16584
design of, for welding under gas pressure, 22:47667(T) (RFP-Trans-37)
design parameters for conceptual 1000 MW(e) LMFBR, 24:4024 (BAW-1328(Vol.2))
design parameters for fixed shield plug vertical core FFTF, 23:31192 (APDA-187)
design parameters for irradiated fuel assemblies dismantling, 25:20554
design parameters for PM-1 and PM-3A Type 4 replacement core, 23:40419 (HIT-329-R(Vol.1))
design parameters for pneumatic actuated flexible tube gripper type, 23:47345(P)
design parameters for startup radiation detector, for swimming pool research reactors, 25:28773
design parameters of disassembly and reassembly, for test reactor core components and test assemblies, 25:39312 (ORNL-TM-3400)
design parameters of EBR-2, for vertical assembling and dismantling of fuel assemblies, 24:4067 (CONF-691102-1)
design parameters of emergency retrieval, for liquid sodium cooled fast reactor fuel handling equipment, 25:46290(R) (GEAP-10010-28)
design parameters of fuel element, 24:52760
design parameters of fuel element, 24:52932
design parameters of grab type, 24:47988(P)
design parameters of liquid sodium cooled fast test reactor, 25:60174
design parameters of power reactor auxiliary systems filter maintenance, 24:45853
design parameters of research reactor core material transfer, 24:47900 (CEA-N-1265)
design parameters of Ringhals Power Reactor Unit 1, 23:45031
design parameters of thermocouple in-core placement, 24:50136(P)
design parameters of thermocouples, for in-core positioning, 25:20842(P)
design parameters, for failed fuel element transfer, 24:43803 (ANL/EBR-24)
design requirements for Fast Flux Test Facility core, 23:37615 (ORNL-TM-2610)
design requirements for reactor, analysis of, 22:42222
design with hydraulically actuated manipulator arm, 25:51775(P)
detector for use with grab, for monitoring of reactor fuel and fuel elements, design of, 24:5850(P)
development and operation of, for Eurex reprocessing plant, 23:33296 (RT/CHI-(68)36)
development and uses of master—slave-type, 25:51801
development for analysis and chemical processing, 23:4 (IN-1203, pp 8-29)
development for analytical operations in fuel reprocessing, 24:26995 (UJV-2315-A-Ch)
development for encapsulation of preirradiated fuel, 24:16741 (CONF-690910-, pp 759-74)
development for ESADA—VESR hot maintenance, 21:7926
development for fuel examination hot cells, 25:58344(R) (LA-4693)
development for high-energy accelerator, 24:6785
development for hot cells, 23:40938
development for HTGCRE primary heat exchanger maintenance, 23:9179 (NP-17696)
development for maintaining high-energy particle accelerators and for space exploration, 25:4200
development for NAL Synchrotron target, 25:5470
development for PNPF core inspection and unloading, 21:7955
development for post-irradiation microanalysis of fuels, 23:47370 (UCRL-71704)

- development for postirradiation inspection of plutonium fuel elements, 22:6512 (EUR-3619)
- development for radioactive carbon-coated fuel microspheres, 23:21926 (ORNL-TM-2495)
- development for radium-226 storage facility, 25:54936 (BRH/DMRE-71-3)
- development for reactor maintenance, 24:2418 (ORNL-TM-2712)
- development for removal of Fermi Fast Breeder Reactor zirconium segment, 23:47089 (ANL-7520(Pt.2), pp 39-51)
- development for samples exposed to prompt radiation from nuclear explosions, 22:30749 (UCID-15307)
- development for use in space, 23:2479
- development for use with radiation shields, 22:45574
- development for waste encapsulation and storage facility, 24:413 (ARH-SA-41)
- development of 50-lb force and 100-lb force master-slave manipulators, 21:34374
- development of computer controlled, experimental, 21:34375
- development of computer controlled, experimental, 21:34376
- development of conceptual 1000 MW(e) HTGR, 23:45053(R) (GA-9372)
- development of electric master-slave, 21:42725(R) (ANL-7357)
- development of liquid metal cooled fast reactor, 24:43744
- development of low-cost mobile SAM, for industrial and space uses, 25:4198
- development of master-slave manipulator, monthly progress report on Argonne National Laboratory, 22:35422(R) (ANL-7445)
- development of master-slave manipulator, monthly progress report on Argonne National Laboratory, 22:37401(R) (ANL-7457)
- development of master-slave, for use in radiation accidents, 24:7624
- development of mechanical master—slave-type, review of, 25:4313
- development of reactor maintenance and radioactive material, 24:46125
- development of teletype actuated computer operated, for reactor maintenance, 25:20841
- development of underwater, for operation by submersible vehicles or surface ships, 23:2478
- development of vehicle-mounted, for light and heavy-duty operations in radioactive environments, 25:51753 (A/CONF.49/P-617)
- development of, systems analysis methods for, 24:5852
- device for attachment of bellows to, design of, 24:41645(P)
- effectiveness for radiation protection of personnel in radiochemistry laboratories, 22:45587
- experimental facilities sampler-enricher, description of MSRE, 22:12035(R) (ORNL-4191)
- fabrication and operation of wrist-action manipulator, for shielded glove boxes, 23:21859 (ORNL-TM-2512)
- fabrication of APDA Reactor core access, description of, 22:30119 (APDA-CFE-18)
- fabrication of device for removal of core inlet plenum object from Fermi Fast Breeder Reactor, description of, 22:37405 (APDA-CFE-20)
- fuel element spill resistant transfer bucket, for liquid sodium cooled fast reactors, 25:31582(P)
- fuel storage, description of Beznau Power Reactor Unit 1, 23:21425
- gripping device for, design parameters of, 25:60259(P)
- head for pneumatic, for transferring objects in hot cells, design of removable, 25:13203(P)
- locks for master—slave-type, development of pneumatic trigger-actuated, 25:4312
- maintenance and performance of, after six years operation in NRTS Fuel Cycle Facility hot cells, 25:4300
- maintenance in TRU, 21:6109
- maintenance of, in fuel processing operations, 21:25935(R) (ANL-7225)
- maintenance of, in large-scale separations plants, 21:6106
- maintenance of, in large-scale separations plants, 21:6107
- maintenance of, in Plutonium Reclamation Facility, 21:6108
- manipulators for hot cells, design and performance of, 21:16046(T) (ORNL-tr-1484)
- motion lock for master—slave, design of pneumatic, 25:15875
- motion locks for master—slave-type, design of trigger-actuated pneumatic, 25:51800
- operation at Chalk River Nuclear Laboratories, review on, 24:36855 (AECL-3604)
- operation of Bradwell Reactor, for fuel assembly support removal, 23:43058
- operation of device for removal of core inlet plenum object, from Fermi Fast Breeder Reactor, 22:37405 (APDA-CFE-20)
- operation of Fermi Fast Breeder Reactor core maintenance tool, description of, 23:5978 (APDA-CFE-23)
- operation of Fuel Cycle Facility, 24:7355
- operation of HFIR fuel element, 24:7172
- operation of high temperature gas cooled power, procedures for, 23:47203
- operation of Japanese Power Demonstration Reactor pressure vessel inspection and maintenance, 24:1962
- operation of Molten Salt Reactor Experiment maintenance, description of, 22:32782 (ORNL-TM-910)
- operation of Phenix Fast Reactor component, 23:45040
- operation of plutonium fuel inspection, 24:462
- operation of SEFOR fuel element, 24:7130
- operation of SEFOR fuel element maintenance, 24:20601 (GEAP-13565)
- operation of SEFOR, mockup testing for optimum, 23:52363 (GEAP-5701)
- operation of water-cooled power reactor fuel elements, description of, 22:42221
- operation requirements of fuel element, 24:52932
- performance and use in examining EBR-II fuel elements in hot cells, 25:4301
- performance and uses of manipulators in nuclear industry, 22:19009
- performance in disassembly of PM-2A reactor vessel, 22:4410
- performance in glove box plutonium metallographic facility, 22:8249 (CONF-670533-9)
- performance of Fermi Fast Breeder Reactor core inlet plenum tools, 23:32973(R) (APDA-CFE-28)
- performance of Fermi Fast Breeder Reactor zirconium segment removal, 23:28355 (APDA-CFE-27)
- performance of Fermi Fast Breeder Reactor zirconium-segment-removal, mockup testing, 23:19399 (APDA-CFE-26)
- performance of FFTF, system effectiveness program for reliable, 24:11221 (BNWL-791)
- performance of transuranium plant maintenance, 22:4324
- performance testing under operations conditions of manipulators, 22:30118 (ANL-7438)
- plier head design for use in ETR, engineering drawings for, 21:12560
- plugging tool for water-cooled reactors, description of top-inserted double-walled pipe control rod replacement, 22:48759(P)
- position indicator for grab of fuel element, description of electro-mechanical, 25:26080(P)
- procedures for MSRE leaking quick disconnect air line fittings maintenance, 23:23930 (ORNL-TM-2555)
- procedures for use of fast reactor, 25:46274
- rabbit system for neutron source transport in swimming-pool reactors, description of hydraulic, 22:53429(P)
- rabbit system for research reactors, description of shield-penetrating multiple-sample pneumatic, 22:53436(P)
- rabbit system for research reactors, description of horizontal liquid-cooled hydraulic, 22:53435(P)
- rabbit system for swimming pool reactor, description of hydraulic, 22:47036(P)
- requirements for gas-cooled reactor, 23:7380
- sealing boot for, method for mounting, 24:27291(P)
- servomechanism for manipulator, design of bilateral, 21:3234(P)
- shielding for californium-252, 25:6473
- stress analysis for PM-1 and PM-3A Type 4 replacement core, 23:40420 (HIT-329-R(Vol.2))
- stress analysis of PM-1 and PM-3A Type 4 replacement core, 23:40419 (HIT-329-R(Vol.1))
- swivel wear in Castle manipulator bellows, 23:6 (IN-1203, pp 37-51)
- testing of gas cooled reactor in-vessel, pressure and temperature, 25:36978(R) (GA-10560)
- testing of mockup of Fermi Fast Breeder Reactor arc-melt tool and spine-type manipulator, description of, 23:13355 (APDA-CFE-25)
- testing of shutdown vacuum, for Fort St. Vrain Power Reactor Unit 1, 23:47169(R) (GA-9440)
- use for isotopic fuel fabrication in hot cells, 21:32324(R) (BNWL-381)
- use in production of radiopharmaceuticals, 24:50929
- wire feeler design for tongs for, used in spent-fuel storage tanks, 22:37912(P)
- wire loop snare design for, for use in ETR, engineering drawings for, 21:12560
- wrist joints for master-slave, design of, 25:51776(P)

REMOTE-VIEWING EQUIPMENT
  - see also Television Equipment
  - configuration of light-activated transducer system for reactor fuel element loading and positioning machine, description of, 22:48763(P)
  - control and drive design for extensometer telescopes and apertures, engineering drawings for, 21:43115
  - control system for plate movement of television microscope used as photometer, 21:38863 (UUIP-544)
  - description of Fermi Fast Breeder Reactor in-core, 22:32915
  - description of periscope, for glove box installation, 23:21926 (ORNL-TM-2495)
  - description of SNAP-10 test facility, 22:3880 (NAA-SR-12504)
  - design and testing of, for observation of radioactive materials in reactor hot cells, 22:33582 (INR-870/XIV/PS)
  - design for hot cells, 21:26867(R) (HW-76635)
  - design for inspection of advanced irradiated fuels, 24:474
  - design for inspection of ANL Fuel Cycle samples in hot cell, 25:51796
  - design for irradiated fuel examination cell, 24:460
  - design for macrography of radioactive metallographic samples, 25:48899(P)
  - design for TURF, 25:51790
  - design of gas cooled reactor core, 24:52774
  - design of microscope, for radioactive materials inspection, 21:12730(P)
  - design of periscopic, for Triga fuel inspection, 21:19487
  - design of remote controlled, for inspection of reactor vessels, 24:52927 (DP-Report-218)
  - design of stereoscopic telescope, for use in hot cells, 23:33305(P)
  - design of television equipment for inspection of reactor fuel channels, 21:22082(P)
  - design of, for reactors, 21:5733(P)
  - design of, using television cameras with restricted-area grips, 21:36226(P)
  - design parameters of aligning periscope, for cask type reactor loading machine, 24:13643(P)
  - development for removal of Fermi Fast Breeder Reactor zirconium segment, 23:47089 (ANL-7520(Pt.2), pp 39-51)
  - development for use with radiation shields, 22:45574
  - development for welded joints in reactors, 25:57680 (ORNL-TM-3561)
  - development of conceptual 1000 MW(e) HTGR, 23:45053(R) (GA-9372)
  - development of five head-controlled motion television monitoring system, 21:34374
  - effectiveness for radiation protection of personnel in radiochemistry laboratories, 22:45587
  - fabrication of Fermi Fast Breeder Reactor core access PRDC borescope, description of, 22:30119 (APDA-CFE-18)
  - operation at Chalk River Nuclear Laboratories, review on, 24:36855 (AECL-3604)
  - operation of device for viewing core inlet plenum object, in Fermi Fast Breeder Reactor, 22:37405 (APDA-CFE-20)
  - operation of gas cooled reactor core, 24:52774
  - operation of plutonium fuel inspection, 24:462
  - operation of SEFOR fuel element, 24:7130
  - operation of SEFOR fuel element maintenance, 24:20601 (GEAP-13565)
  - operation of SEFOR, mockup testing for optimum, 23:52363 (GEAP-5701)
  - performance and uses in maintenance at ORNL, 21:7954
  - performance of Fermi Fast Breeder Reactor zirconium-segment-removal, mockup testing, 23:19399 (APDA-CFE-26)
  - requirements for gas-cooled reactor, 23:7380
  - sapphire windows for use in, 22:51141
  - television, description of La Crosse Boiling-Water Reactor radiation-resistant closed circuit COHN 2500 series, 23:15556 (SwRI-1228-P-11-1)
  - testing of Fort St. Vrain Power Reactor Unit 1, 23:47169(R) (GA-9440)
  - testing of gas cooled reactor in-vessel, pressure and temperature, 25:36978(R) (GA-10560)
  - use for surveillance of Bulk Shielding Facility control panel and pool area, 23:13544 (ORNL-TM-2400)
  - use of TV camera on theodolite for surveying near AGS, 21:42479 (BNL-11248)

RENE-41
  - corrosion and fatigue of, effects of abrasive processing on, 23:24886
  - corrosion by aqueous lithium fluoride—lithium hydroxide solution at 800°C, 21:43559
  - cutting of, development of materials for, 24:4761
  - extrusion of powdered, 21:41570
  - fabrication of diffusion bonded joints of, using hot pressing and diffusion promoters, 24:12386
  - fabrication of seamless tubing of, 23:27032
  - forging of, for large equipment components, 22:23789
  - fracture failure of, effects of abrasive processing on, 23:24886
  - mechanical drawing of sheathed wires of, 21:36842
  - mechanical properties at cryogenic temperatures, 23:42117 (BNL-50155(Pt.1), pp 193-375)
  - mechanical properties of, effects of exposure in impure helium at 1650 and 1850°F on, 21:11213 (GAMD-7377)
  - metallurgical properties of wire filaments of, 21:36842
  - microstructure of, effects of abrasive processing on, 23:24886
  - oxidation by carbon dioxide at 1800°F, 21:26867(R) (HW-76635)
  - properties for use as mechanical fasteners for high-temperature aircraft structures, 24:14720
  - radiation effects on elongation in stress-rupture tests on, fast-neutron, 21:26868(R) (HW-77281)
  - radiation effects on mechanical properties of, 21:26867(R) (HW-76635)
  - radiation effects on properties of springs of, at 700 to 1300°F and 10^{-4} torr, gamma and neutron, 21:34934 (NAA-SR-11519)
  - radiation effects on rupture strength of, neutron, 21:26866(R) (HW-75500)
  - radiation effects on sliding friction on surfaces of molybdenum sulfide-lubricated, in-pile, 23:41753
  - radiation effects on stress rupture of, role of solution temperature in, 21:26868(R) (HW-77281)
  - radiation effects on stress-rupture and tensile properties of, at 650 to 870°C, neutron, 21:26865(R) (HW-74679)
  - radiation effects on tensile properties of, at cryogenic temperatures, 21:13211(R) (N-66-24695)
  - radioinduced embrittlement of, review of neutron, 24:42165 (RN-S-365)
  - separation of gamma-prime phase from, using anodic dissolution, chemical partitioning in, 23:26994
  - stability of carbides and intermetallic compounds at 1400 to 2100°F in, 23:22544
  - strain-age cracking of, effects of chemical variations, mill processing, and welding on, 21:39565
  - tensile properties of diffusion bonded joints of, 24:12386
  - testing at high temperatures under vacuum for use in radioisotope-fueled space power systems, 25:39647 (ALO-3632-20(Rev.1))
  - testing for Apollo service module engine seals, 21:4936 (N-66-30539)
  - welding of, performance of lasers for, 24:12384

RENE-62
  - corrosion by steam, 21:19348(R) (CEND-265)
  - corrosion by superheated steam at 1050 and 1150°F, 21:12141(R) (GEAP-4932)
  - development and testing for nuclear superheaters, summary report on, 21:12142(R) (GEAP-5087)
  - properties evaluation for Rover rocket nozzle fabrication, 21:13160 (ORNL-3970, pp 236-44)
  - radiation effects at 704°C on tensile properties of, mixed fast and thermal neutron, 23:22595 (BNWL-790, pp 12.1-66)
  - radiation effects on tensile properties at 1300°F of, neutron, 23:32040(R) (BNWL-678)
  - radiation effects on tensile properties of, at 1300°F, neutron, 24:14866(R) (BNWL-658)
  - tensile properties at 704°C, effects of thermal aging on, 23:22595 (BNWL-790, pp 12.1-66)

RENE-63
properties of, effects of fabrication and processing methods on, 25:6864
RENIN
content in blood plasma, radioimmunoassay method for measuring, 25:18920
content of human blood plasma, method for measurement of, using radioimmunoassay of angiotensins, 24:29674
content of venous blood in hypertensive patients, method for measuring, 25:11164
radioimmunoassay method for human angiotensin-, 25:49074
RENNIN
activity in human plasma using radioimmunoassay of angiotensin, 24:4585
content of blood plasma, radioimmunoassay methods for measurement of, 23:38493
Repetitively Pulsed Test Facility
see Reactors, Research
Replicas
see Biological Models
Report Lists
see Bibliographies
Reprocessing Plants
see Radiochemical Processing Plants
REPRODUCTION
see also Breeding (Biological)
see also Diapause
see also Fecundity
see also Fertility
see also Gametes
see also Meiosis
see also Mitosis
see also Regeneration
see also Reproductive System
see also Sterility
see also Zygotes
anomalies in rats fed irradiated food, 24:4708
bibliography on laboratory animal, 21:22649 (ANL-7300(Issue 2))
book: Pharmacology of Reproduction, 23:18124
brood pattern of, in x-ray-induced crossovers in Drosophila males, 21:16330
dog, effects of γ-irradiated green beans and fruit in diet on, 21:8952
effects of x-irradiation of ovary on, and estrous in dogs, 21:11009(R) (TID-23471)
inhibition in Drosophila melanogaster females bearing lethal chromosomes, effects of zygosity on, 21:28592(R) (NYO-3096-21)
measurement of vascular plant, in old-field community, effects of climate on, 21:39374 (TID-23858(Pt.9))
performance in laying hens, effects of dietary strontium on, 21:45571
phosphorus-32 metabolism during, of Aedes vexans, 21:26363
radiation effect on sex-ratio following, of Drosophila melanogaster, x, 21:24395
radiation effects on asexual, in Saccharomyces vini, x, 21:18191
radiation effects on asexual, of synchronized cells of Tetrahymena pyriformis, effects of transition time on uv, 21:32804 (USNRDL-TR-67-58)
radiation effects on boll weevil, acute cobalt-60 γ, 23:10040
radiation effects on boll weevil, in cage populations, cobalt-60 γ, 23:10042
radiation effects on capacity for, in beagle dogs, x, 21:22772
radiation effects on capacity for, in Ehrlich ascites tumor cells, RBE for 15 MeV electron and 200 eV x, 21:34787
radiation effects on capacity for, in jack pine, effects of seed exposure on γ, 21:41379
radiation effects on capacity for, in staminal hairs of Tradescantia blossfeldiana, effects of dose on γ, 21:39529
radiation effects on capacity of, of Chlorella pyrenoidosa, x, 21:30934
radiation effects on female dog, lack of microwave, 21:18131
radiation effects on fertilization in, of sand dollars, uv, 21:30898
radiation effects on insemination, in Drosophila, effects of age and strain on x, 23:33813(R) (COO-1033-17)
radiation effects on mating preference for, in Drosophila, cobalt-60 γ, 23:43930
radiation effects on mechanisms of Tradescantia, γ and x, 21:3399
radiation effects on mosquito, γ and x, 23:17993
radiation effects on physiology of, in female uranium mining personnel, α, β, and γ, 21:41491
radiation effects on plant, 21:24674
radiation effects on processes of, in Pinus rigida, γ, 21:30802
radiation effects on Queensland fruit fly, in relation to fruit quarantine, cobalt-60 γ, 23:10149
radiation effects on rat, γ, 21:20418
radiation effects on rate of, in Colpoda protozoans, γ, 21:16543
radiation effects on timing of cycle of, in corn, γ, 21:6726
radiation effects on unicellular, mechanism of, 24:34766
radiation effects on, electromagnetic, 21:26446
radiation effects on, in Angoumois grain moth, effects of developmental stage on cobalt-60 γ, 23:10041
radiation effects on, in Artemia, β, 21:12970
radiation effects on, in boll weevils, γ, 21:6617
radiation effects on, in Coleus plants, effects of maturity at time of exposure on cesium-137 γ, 23:29900
radiation effects on, in duckweeds, γ effects of light on, 21:22787
radiation effects on, in Lycopersicum esculentum and L. pimpinellifolium, chronic γ, 21:11131
radiation effects on, in male insects, use of, for population control, 21:26704
radiation effects on, in moths, γ, 21:6639
radiation effects on, in rats, effects of pre-mating on whole-body x, 21:45801
radiation effects on, in Rhesus monkeys following exposure of ovaries, whole-body x, 24:871
radiation effects on, of Aedes aegypti mosquitoes, 21:13052
radiation effects on, of brine shrimp, γ, 21:34810
radiation effects on, of Callosobruchus, effects of pupal exposure on cesium-137 γ, 23:41527
radiation effects on, of Ceratitis capitata, cesium-137 γ, 23:26974 (CONF-670649-24)
radiation effects on, of cereal and vegetables, effects of seed exposure on γ, 23:2978 (CEA-R-3509)
radiation effects on, of chickens, recurrent cobalt-60 γ, 23:35895
radiation effects on, of cockchafers, γ and x, 23:2914
radiation effects on, of cultured lymphoblast cells, 21:8791 (COO-78-142, pp 1-81)
radiation effects on, of cultured mammalian cells, review of ionizing, 21:45840
radiation effects on, of cultured mammalian cells, effects of oxygen on, 21:13015
radiation effects on, of cultured Saccharomyces cerevisiae, comparison of laser and x, 23:29901
radiation effects on, of deer mice, chronic low dose rate γ, 23:16390
radiation effects on, of Ditylenchus dipsaci in onions, uv, 21:24618
radiation effects on, of domestic animals, effects of chronic exposure on γ, 21:43407
radiation effects on, of domestic fowl, latent cobalt-60 γ, 23:20380
radiation effects on, of Drosophila, cobalt-60 γ, 23:43930
radiation effects on, of eggplants, x, 23:50438
radiation effects on, of Ehrlich ascites tumor cells, effects of metabolic-inhibitor drugs on x, 21:34807
radiation effects on, of female dogs, latent x, 23:12199 (UCD-472-115, pp 7-8)
radiation effects on, of female mice, effects of maternal factor of hybrid strains on x, 23:8068
radiation effects on, of female mice, following prenatal exposure, 21:13012
radiation effects on, of female Spanish goats, cobalt-60 γ, 23:45901
radiation effects on, of field mice, effects of genetic selection and temperature on γ, 23:29739(R) (ORO-2975-12)
radiation effects on, of HeLa cells, combined effects of steroid hormones on γ, 21:43447
radiation effects on, of Hymenolepsis microstoma, 21:36687(R) (ORO-1749-17)
radiation effects on, of influenza A virus, effects of genetics on, 21:22817
radiation effects on, of insects during space flight, 24:830
radiation effects on, of insects, effects of developmental stage and dose on cesium-137 γ, 24:9983
radiation effects on, of male bean weevils, cobalt-60 γ, 23:10128(T) (JPRS-47070)
radiation effects on, of males after radiotherapy of testicular tumors, 21:8996
radiation effects on, of man, x, 21:45789
radiation effects on, of mice, cesium-137, strontium-90, 23:41227
radiation effects on, of moth Hyphantria cunea, following exposure of pupae, γ, 21:36743
radiation effects on, of nematodes, effects of dose on x, 23:2911(T) (UCRL-Trans-10280)
radiation effects on, of old-field mice, low dose, acute γ, 23:26879
radiation effects on, of orchids, 21:30920(R) (UH-235-P-6-3)
radiation effects on, of Pullularia sp., effects of culture medium on uv, 23:7986
radiation effects on, of Saccharomyces cerevisiae, uv, 23:41282
radiation effects on, of T4 bacteriophages, effects of acridine orange on ultraviolet and visible light, 21:26690
radiation effects on, of tobacco budworm, effects of developmental stage on γ, 23:900
radiation effects on, of Tradescantia, effects of dose on γ, 21:41383
radiation effects on, of Tribolium, combined effects of temperature on x, 21:6618
radiation effects on, of Tribolium, combined effects of temperature on x, 21:6618
radiation effects on, of Xanthium, effects of photoperiodism on γ, 21:13066
radioinduced conjugation delay in Paramecium, photoreactivation of, uv, 21:14776
radioinduced cross-induction following bacterial, transfer of prophage-inducing activity by Escherichia coli, 21:22810
radioinduced mutations for use in plant, 21:9020
radioinduced sterility in Musca domestica, x, 21:28709
radioinduced suppression of development of structures for, in oaks, effects of chronic exposure on γ, 21:24660
radioisotope methods for study of animal, 23:29294 (CONF-670649-20)
radioprotective effects of autogamy on Paramecium aurelia, 23:16377
research by UT-AEC Agricultural Lab in 1969, 24:12229(R) (ORO-672)
REPRODUCTIVE SYSTEM
see also Gonads
see also Oviducts
see also Penis
see also Prostate Gland
see also Seminal Vesicles
see also Uterus
see also Vagina
book: Clinical Radiation Pathology, Vol. 1, 23:8073
development, in chickens, effects of iodine-131-induced thyroid ablation on, 21:22661
diagnosis of cancer of human female, by rubidium-86 uptake of erythrocytes, 23:35808
diseases in Japanese atomic bomb survivors, 21:20229(R) (ABCC-65-66)
iodine-125 content of, in pregnant cows, 22:14967
iodine-131 content of, in pregnant cows, 22:14967
iodine-131 uptake by tissues of rat, 21:41330
physiology in male mammals, 21:30907
plutonium deposition in seminal vesicles of, of employees and residents at Hanford, 21:6486 (BNWL-SA-918)
polonium-210 alpha emission in human, measurement of, 22:2517
protactinium-233 uptake by, of animals, effects of EDTA in sea water on, 24:34062
radiation dose to human female, during phosphorus-32 administration, 25:35144
radiation dosimetry in human, methods for fallout and natural environmental γ, 25:16152
radiation effects on contraction of oviduct from, of man, x, 21:16464
radiation effects on human male, following therapy for malignant lymphomas, 25:19147
radiation effects on maturation of female, of rats, effects of hypothalamic lesions on x, 22:49634
radiation effects on mechanical activity of vas deferens in guinea pig, effects of drugs on x, 25:52216
radiation effects on postmetamorphic development of Bidder's organ in Bufo, x, 24:844
radiation effects on, in female rats, following exposure of head region during infancy, effects of dose on whole-body x, 24:27680
radiation effects on, in man following iodine-131 radiotherapy for thyrotoxicosis, β and γ, 24:14611
radiation effects on, in rabbits, iodine-131 β and γ, 22:8625
radiation effects on, of albino rats, combined effects of heat treatment on ionizing, 22:10883
radiation effects on, of male swine irradiated in utero, γ, 21:14756
radiation effects on, of moths, γ, 25:11338
radiation effects on, of tobacco budworm, effects of developmental stage on γ, 23:900
radiation effects on, of women exposed to atomic explosions in Japan, 21:12958
radiodiagnosis of aberrations of human female, criteria for safe x, 21:41408
radiodiagnosis of diseases and malformations of, review of current literature on progress in, 23:43816
radioinduced injuries to chicken, whole-body x, 21:28661
radioinduced injuries to human, in relation to urological surgery, review of, 23:45790
radioinduced necrosis of human, following genital therapy, effects of cigarette smoking on radium, 24:44534
radioisotope applications in clinical studies of human, 24:50994
radiotherapy of acute myeloblastic leukopenic leukemia in vulva of, in man, 22:47568
radiotherapy of carcinomas of female, effects of corticosteroid treatment on γ, 21:6580
radiotherapy of carcinomas of vulva of human, review of cobalt 60 γ and x, 23:880
radiotherapy of diseases and malformations of, review of current journal literature on, 23:43832
radiotherapy of human female, effects of, on triiodothyronine uptake, 23:41494
radiotherapy of human female, review of use of various sources for, 23:865
radiotherapy of human, calculation of dose distribution to pelvis during γ, 23:20286
radiotherapy of neoplasms of female, incidence of intestinal injuries following, 21:13003
radiotherapy of tumors in female, prevention of radiation injuries by use of tamponade during, 21:26450
radiotherapy of tumors of female, bone fractures following, 21:14755
radiotherapy of tumors of, fractures of femoral neck following, 21:6691
radiotherapy of tumors of, of man, development of necroses following fast electron, 22:36400
research by Birmingham Branch, Great Britain in 1968, 24:2708
research by University College Hospital Medical School, Great Britain, in 1968, 24:2701
strontium metabolism in, of mice and sheep, 24:48382
synthesis of immunoglobulins by tissues of human female, 23:24526
television fluoroscopy of female, dose from use for diagnosis, 21:12924
zinc-65 accumulation in, of male guinea pigs, 23:26662 (CONF-670649-23)
zinc-65 content of male guinea pig, following intraperitoneal injection, 24:4550
REPTILIA
Agkistrodon piscivorus, radioinduced inhibition of toxicity of venom from, x, 25:21543 (AD-413791)
alligators, radiation effects on survival of, whole-body x, 23:6564 (BNWL-714, pp 1.1-20)
Anolis evermanni, radiation effects on, in tropical rain forests, γ, 25:21839 (TID-24270, pp E.25-49)
Anolis gundlachi, radiation effects on, in tropical rain forests, γ, 25:21839 (TID-24270, pp E.25-49)
Anolis gundlachi, radioisotope uptake by, in rain forest in Puerto Rico, 25:42317(R) (PRNC-147)
Chelodonia longicollas, contraction of cardiac muscle of, effects of caffeine, nitrates, and uranyl ions on, 22:10713
Cnedidophorus tigris, radiation effects on survival of, in desert ecosystems, γ, 25:4477 (UCLA-12-782, pp 49-81)
Cnemidophonus tigris, radiation dose sustained by, in natural enclosure, continuous γ, 22:45470
Cnemidophorus tigris, radioinduced sterility in natural populations of, γ, 25:49120 (UCLA-12-815, pp 63-97)

Crotaphytus wislizendii, radiation effects on survival of, in desert ecosystems, γ, 25:4477 (UCLA-12-782, pp 49-81)
Crotaphytus wislizeni, radiation dose sustained by, in natural enclosure, continuous γ, 22:45470
Crotaphytus wislizenii, radioinduced sterility in natural populations of, γ, 25:49120 (UCLA-12-815, pp 63-97)
Emys blandingii, radiation effects on bioelectric activity of nerve fibers of ganglia in, strontium-90 β, 22:10714
food habits of, in environs of proposed interoceanic canal in Central America, safety feasibility study of, 23:29422 (BMI-171-19)
gamma dosimetry of, performance of skin-attached thermoluminescent dosimeters for, 21:26233 (CONF-650637-, pp 402-11)
infestation by parasites at National Reactor Testing Station, 22:4588(R) (COO-1559-2)
Lacerta viridis, radiation effects on development of embryos of, effects of age and dose on x, 25:21849
Lacerta viridis, radiation effects on development and survival of embryos of, effects of age and dose on x, 25:21850
lizards, activity ranges of, analysis of variation in, 22:25800 (UCLA-12-668, pp 37-58)
Lygosoma laterale, radiation effects on, whole-body γ, 21:13010
mobility in ecosystems, tracer study of, 23:50402 (PRNC-129, pp 87-121)
photoreactivating activity in, review of distribution of, 25:21807
Pseudemys scripta, growth of populations of, in Par Pond in relation to thermal pollution, 24:48472
Pseudemys sp., sodium-24 accumulation by, using active transport, 23:17894 (CONF-670503-, pp 191-7)
radiation effects on ecology of, at Nevada Proving Grounds, 23:9908 (UCLA-12-686, pp 53-66)
radiation effects on ecology of, at Nevada Test Site, 22:19306
radiation effects on, in Puerto Rican forest, γ, 21:20112 (UCLA-12-612, pp 77-93)
radioisotope tracking of movements of, 23:4904
radioisotope transport in, relation of feeding habits to cesium-137 and strontium-90, 25:24081
radiosensitivity of toxins of snake, 24:50708 (STI/PUB-243)
Sceloporus occidentalis longipes, ecology of Rainier Mesa, Nevada Test Site, 25:49118 (COO-1496-109)
snakes, copper content in venom of, 21:6402 (IA-1082, pp 203-15)
snakes, labeling with cobalt-60, methods of, 22:19432
snakes, radiation effects on antigenicity of venom from cottonmouth moccasin, x, 21:8727
snakes, uptake of chlorine-36-labeled DDT by, in marsh ecosystem, 21:34626 (COO-1358-3)
species at National Reactor Testing Station, 23:6406
Trionyx sp., sodium-24 accumulation by, using active transport, 23:17894 (CONF-670503-, pp 191-7)
turtles, radiation effects on conduction of impulse by nerves of, in vitro, γ, 21:43526
turtles, radiation effects on testes of, effects of dose on x, 22:4697
Uta stansburiana, demography in southern Nevada, 25:49120 (UCLA-12-815, pp 63-97)
Uta stansburiana, determination of energy metabolism in populations of, use of mathematical models for, 22:25800 (UCLA-12-668, pp 37-58)
Uta stansburiana, radiation effects on allelic frequencies in populations of, Rock Valley, Nevada, 25:49120 (UCLA-12-815, pp 63-97)
Uta stansburiana, radiation effects on ecology of population of, chronic low-dose γ, 24:9805
Uta stansburiana, radiation effects on genetic variation in populations of, γ, 25:55320
Uta stansburiana, radiation effects on natural populations of, γ, 22:25800 (UCLA-12-668, pp 37-58)
Uta stansburiana, radiation effects on populations of, in desert, chronic low-level γ, 23:43717 (UCLA-12-734)
Uta stansburiana, radiation effects on reproduction of, effects of ecological conditions on low-level γ, 22:33778 (UCLA-12-640, pp 45-60)
Uta stansburiana, radiation effects on survival rate of, acute γ, 21:32785
Uta stansburiana, radiation effects on, of Mojave desert, γ, 24:41794
Uta stansburiana, radiosensitivity of, effects of age and sex on γ, 21:20112 (UCLA-12-612, pp 77-93)
Uta, fertility and survival of, determination of age-specific, 21:20112 (UCLA-12-612, pp 77-93)
Varanus indicus, ecology at Eniwetok Atoll, 23:35683(R) (SAN-226-4-X)

REPUBLIC OF CHINA
see also China
nuclear energy program of, personnel training program for, 25:54012 (A/CONF.49/P-106)
nuclear explosion by, data on fallout in Japan following seventh, 23:6437 (NIRS-18)
nuclear power plant construction in, economics of, 25:53956 (A/CONF.49/P-803)
nuclear power plant construction in, planning studies for, 25:10089 (CONF-691020-3)
research on rice breeding by chemically-induced and radioinduced mutations, 24:39485

REPUBLIC OF KOREA
cesium-137 content of food in, fallout, 24:697
isotope content of atmospheric precipitation and ground waters of, 24:46345
nuclear power plant construction in, estimates of future, 25:53913
nuclear power plant economics in, 24:8964 (AERI-32)
power requirements and sources, 25:28539
program for radiation breeding of rice in, 24:41811
radiation accident in laboratory in, contamination of personnel following, 24:700
radiation accidents at Atomic Energy Institute in, hazards to man following, 25:16118
radiation monitoring in seafood in, method for fallout β, 24:699
radiation monitoring of agricultural products, atmosphere, and soil of, during 1961 to 1966, 22:36287
radioactivity in ground-level atmosphere at Seoul, following Chinese nuclear explosion, effects of meteorological conditions on, 25:2368
radioisotope content of milk in, 1965 through 1968, effects of fallout specific activity on, 25:42372
rainwater of, measurement of carbon-14 and tritium content of, 23:13880
strontium-90 content of food in, during 1964 and 1965, fallout, 24:698
strontium-90 content of milk in, during 1965 to 1970, 25:46828
uranium content in hot spring waters in, 24:41228
wines of, measurement of carbon-14 and tritium content of, 23:13880

REPUBLIC OF SOUTH AFRICA
(formerly Union of South Africa)
see also Witwatersrand Gold Fields (South Africa)
see also Witwatersrand Reefs (South Africa)
atomic energy research progress in, 21:2918(R) (NP-16366)
atomic energy research progress in, 1966, 21:38826(R) (NP-16864)
book: Report on the Investigation into the Possible Introduction of Nuclear Power in the Republic of South Africa, 22:44834 (PEL-175-E)
carbon-13 isotope content in diamonds from, 21:8443
fallout monitoring in, during 1967, 23:6450 (PEL-181)
fallout monitoring in, from 1966 French nuclear explosions, 22:21210
gold distribution patterns in Klerksdorp gold field in, 21:36170
monitoring air in gold mines in, for radon-222 and decay products, 25:52064 (A/CONF.49/P-659)
nuclear fuels production in, investigations of, 22:52228
nuclear power plant economics in, computer model for simulation of, 25:53985 (A/CONF.49/P-660)
nuclear power plants for, cost analysis for base load coastal installation, 25:34247
nuclear research in, review of, 22:10903
nuclear standards in, compilation of, 24:2007 (ORNL-NSIC-63)
ore production in greater Witwatersrand in, status and prospects for future gold and uranium, 23:38127
polonium-210 content of marine plankton off coast of, during 1965 to 1966, 22:6817
power production in, economic comparison of conventional and nuclear, 24:28917
power reactor development projections for, 23:37449
power reactor economics in, comparison of enriched and natural uranium, (T), 25:20748 (PEL-199)
radiation monitoring at Pelindaba, before criticality of Safari-I, 22:180 (PEL-89)
radiation monitoring at Pelindaba, during 1966, 22:10763 (PEL-160)
radiation monitoring in environs of nuclear research center at Pelindaba, during 1968, 24:23195 (PEL-192)
radiation monitoring of environment at National Nuclear Research Center, Pelindaba, Pretoria during 1969, 25:32401 (PEL-205)
radiation monitoring of environment of National Nuclear Research Center at Pelindaba, 23:26773
radiation protection programs for personnel of Institute for Metallurgy, during 1960 through 1969, 25:46855(R) (PEL-188)
radiation protection regulations of, 25:55245
radiation uses in agriculture in, during 1960 to 1969, review of, 25:51961 (A/CONF.49/P-669)
radioactive material handling and shipping in, regulations for safe, 25:360
radioisotope tracer methods in agriculture in, during 1960 to 1969, review of, 25:51961 (A/CONF.49/P-669)
radium-226 content of marine phytoplankton off coast of, 25:55155
rare earth mineral deposits in, reserves and resources of, 24:22798 (PEL-193)
reactor development programs in, analysis of optimum power and dual-purpose power—desalination, 22:44834 (PEL-175-E)
reactor materials occurrence, production, and uses in, 21:36779 (PEL-74)
research activities in peaceful uses of nuclear explosives, summary of, 24:50482
research and development on reactor fuels in, 24:9502
scientific research in universities of, 25:20871 (NP-18701)
thorium reserves in, estimation of, 21:22051 (PEL-112)
treatment and disposal of liquid radioactive wastes at Pelindaba Plant in, 21:28186 (PEL-143)
uranium content in pyroxenes in, fission track studies on, 23:35350
uranium content in thucholite of Witwatersrand System in, 21:22055
uranium distribution patterns in Klerksdorp gold field in, 21:36170
uranium exploration in, economics of, 22:10400
uranium industry in, future of, 22:10401
uranium ore processing in, status of, 22:18986
uranium ore reserves in, 21:10481
uranium ores in Western Areas Mines of, mineralogy of, 23:31435 (NIM-237)
uranium production and reserves in, 22:51111
uranium production and sales in, 22:10344
uranium production in, 22:51110
uranium prospecting and production in, predictions to 1980, 22:10397
uranium prospecting in, 21:45266
uranium prospecting in, economics of, 21:36166
uranium requirements and supply in, review of, 23:47653 (CONF-690815-2)
uranium reserves in, estimates of, 1967, 22:23174 (NP-17371)

Research and Isotopes Reactor
see Reactors, Production

Research Development Reactor
see Materials Testing Reactor

Research Reactors
see Reactors, Research

RESERPINE
determination in tissues, tritium tracer method for, 23:6384
effects of, on uv-induced erythema in ear skin of mice, 21:16419
effects on body temperature of mice, 21:36631
effects on electrical activity of olfactory cortex of rats, combined effects of x radiation on, 23:20401
effects on intestinal motility in rabbits, 22:49550
effects on liberation of free fatty acids from epididymus of x-irradiated rats, 22:12789
effects on reproduction and survival of tobacco budworm, additive effects of gamma radiation on, 25:49277
effects on sensitivity of blood-brain barrier of x-irradiated mice to acetylcholine, histamine, noradrenaline, and serotonin, 24:12114
effects on serotonin content of brain of x-irradiated rats, 23:38769
effects on tolerance of x-irradiated rats to pentobarbital, 24:36808 (AD-702721)
effects on x-radiosensitivity of iron-59 metabolism in mice, 21:36631
radioprotective effects of, on mice, whole-body x, 21:36631
radioprotective effects of, on rats, combined effects of ascorbic acid on x, 22:49436

Residues
see Uranium Leach Residues

Resin Ion Exchange
see Ion Exchange

Resin Podophyllum
see Podophyllin

RESINS
see also Adhesives
see also Amberlites
see also Epoxy Resins
see also Ion Exchange Materials
see also Plastics
adhesion to glass fibers having radiation-modified surfaces, 24:13883
alpha particle stopping power at 5 MeV for formvar, calculation of, 21:27014
alpha particle stopping power at 5 MeV in, Bragg law for, 24:9668(T) (ORNL-tr-1861)
analysis for metals by neutron activation and γ spectrometry, 25:31788 (CEA-N-1419, pp 3-90)
binding of, to nucleic acids, 21:12951(R) (LA-3610)
book: The Properties and Testing of Plastic Materials, 23:10312
carbonization for preparation of carbon composites, 23:27208 (SC-RR-68-651)
casting films of Formvar, on water, 21:14459
charge-exchange of high-energy heavy ion beams with formvar, 22:9724(T) (ANL-Trans-535)
charged-particle track registration in Lexan, restricted energy loss rate for, 21:42159 (USNRDL-TR-67-80)
complexing of, in swelling, particle charge for, 21:8248
container design for radioactive, 21:1548(P)
corrosion resistance of, handbook on, 21:26761
decomposition by ozone, 21:17613(T) (ORNL-tr-1641)
development of thermosetting, for moderators, 21:39713(P)
effects of crosslinking of Amberlite and Dowex, on ion exchange separation of rare earth complexes with EDTA, 25:10665 (INR-P-1209)
effects of impregnation with cured, on fallout contamination of textiles, 25:52098(P)
effects of Questran, on retention of calcium-45 and strontium-89 in bones of rats, 24:27515
effects on intestinal sorption of cesium-134 and strontium-89 in animals, 25:42263
evaluation of lipophilic polystyrene adsorption, for separation of organic compounds from water, 23:9301 (ORNL-4343, pp 11-23)
fission fragment energy loss in, (E), 25:20442
fission fragment track density measurements in Lexan polycarbonate, 23:4813
fission product removal from ion exchange, methods for optimum, 21:32348 (SZS-2/67)
fission product removal from ion exchange, methods for optimum, 21:32349 (SZS-6/67)
fission-fragment scattering in Formvar, multiple, (E/T), 22:18170
iodine penetration of protective coatings of phenolic, 22:2713 (IN-1095)
labeling with fluorine-18 for use in inhalation studies, 25:46672
mechanical properties of, low temperature, 25:23471 (SC-DR-70-421)
particle tracks in Lexan polycarbonate, etching effects in, 24:3055
performance of acrylic and phenolic, in paints for surfaces exposed to radioactive materials, 23:8366
performance of coatings of polymer, in cryogenic and high-temperature environments, 23:14422 (LA-4060)
performance of fluidized-bed-deposited coatings of electric insulating Phenoxy, 22:11100 (BDX-613-100)
phenol formaldehyde sulfonic acid, ion exchange properties for barium-133, cesium-134, and strontium-85 in raw whole milk, 23:6201
phenol formaldehyde, use in fabrication of carbon-fiber sponge, electron microscopy studies on specifications for, 23:9355 (ORNL-4343, pp 59-61)
phosphorus-32 sorption on cationic microspheres of, 22:28609
phosphorus-32-labeled, preparation of microspheres of, for radiotherapy of rabbit neoplasms, 21:10960
polonium-210 removal by mixed ion-exchange, in cigarette filters, 21:28451
preparation of beads of, for iodine-125 photon source, 22:45246 (COO-1422-36)
preparation of thermosetting, 21:32145 (SC-RR-67-316)

  production by polymerization of furfuryl alcohol, 22:4869(R) (LA-3821)
  production of foamed bodies of synthetic, method for, 21:6901(P)
  production of mixes of glass microballoons-diethanolamine and, equipment evaluation for, 22:10126 (GEPP-2)
  properties of acrylic and hydrocarbon, for use as encapsulation materials, 25:49588 (MLM-1802)
  properties of KU-2 for ion exchange of thorium and zirconium, 21:19734
  properties of macroporous, for ion exchange chromatography, 22:37856
  properties of phenolic, with hydroxamic group for purification of uranium solutions, 25:18503 (RT/CHI-(70)25)
  properties of polycarbonate, as adhesive, 22:36555 (LA-3890)
  properties of redox, for use in inorganic chemistry, 24:5740
  properties of thermosetting, for incorporation in metallic ore-base shielding, 23:30111(P)
  radiation effects on curing of thermally stable vinyl halide, 25:18437(P)
  radiation effects on deamination of De-Acidite FF, mechanism of, 21:10378
  radiation effects on electric properties of Lexan, used as insulating materials in superconducting magnets, gamma and neutron, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
  radiation effects on mechanical properties of graphite cloth laminates of, γ, 25:18421(R) (RLO-2098-1)
  radiation effects on mechanical properties of Lexan, used as insulating material in superconducting magnets, gamma, 23:42787 (BNL-50155(Pt.3), pp 967-1132)
  radiation effects on properties and structure of high-impact ABS, gamma, 24:48913
  radiation effects on secretion of, by pines, γ, 21:28677
  radiation effects on stability of water-saturated, effects of ions on γ, 23:31391
  radiation effects on sulfur-containing, in water, kinetics of, 23:35225
  radiation effects on, effects of dose rate on, 23:9419(R) (COO-1653-15)
  radiation effects on, effects of green pigment on ruby laser, 22:47465
  radiation hardening of polyester, 25:18443
  radiation stability of sulfur-containing condensation and polymerization, on bases of aromatic compounds, 23:6152
  radioinduced adhesion of foamed, to plates and sheets, electron, 22:45119(P)
  radioinduced crosslinking of foamed, 22:45117(P)
  radioinduced crosslinking of vinyl ester, for coatings, electron, 25:18439(P)
  radioinduced formation of, 21:40913
  radioinduced graft polymerization of films and powders of, with vinyl acetate, 21:130(P)
  radioinduced polymerization of coatings of aminoplast, on substrates, 25:8278(P)
  radioinduced polymerization of coatings of, on metals, x, γ, or electron, 24:9353(P)
  radioinduced polymerization of self-supporting films of unsaturated polyester, electron, 23:21745(P)
  radioinduced polymerization of thermoplastic, electron, 22:45122(P)
  radioinduced polymerization of unsaturated polyester, electron, 25:29116(P)
  radioinduced polymerization with vinyl monomers in coatings, 25:48539(P)
  radioinduced production of foamed bodies of synthetic, 21:1405(P)
  radioinduced production of polyacetal resin by polymerization of trioxane, electron, 25:4098
  radioinduced production of thermoplastic, from mixture of copolymer of vinyl and acrylic compounds, isobutylene polymer, and vinyl and acrylic monomers, 22:45118(P)
  radioprotective effects of reaction of, with amino carboxylic acids or salts on fibrous materials, 21:26469(P)
  reactions with ferrocyanide to form γ resistant ion exchangers, 21:28039
  sorptive properties for copper, iron, and zinc in water cooled reactor condensates, 23:40838
  sorptive properties for extraction of uranium from seawater, 23:7585 (AERE-R-5024)
  sorptive properties for uranium, effects of permanganate ions on, 22:47124
  sorptive properties for use in radiochemical separations, 23:47402 (EUR-4287)
  sorptive properties of copper-loaded Chelex, in ligand-exchange chromatography, principles of, 23:9303 (ORNL-4343, pp 33-52)
  sorptive properties of ozone-treated, for curium and gadolinium, 21:17613(T) (ORNL-tr-1641)
  sorptive properties of sulfonic, for cesium-134, sodium-22, and strontium-85 in radioactive solutions, 24:14025
  sorptive properties of, for ruthenium nitrosyl nitrates, mechanism of, 21:8249
  sorptive properties of, for uranium in nitric acid solutions, 21:8191 (LA-3540)
  strength of encapsulating, as a function of aging, 21:5020 (SC-DC-66-2326)
  structure of thermosetting, used for production of carbon foams, 23:31267 (Y-1664)
  Szilard—Chalmers reactions of cobalt complex ions on ion-exchange, 21:5977
  thermal decomposition of phenolic, at 104 to 718 deg C, kinetics of, 21:3016 (SC-RR-66-584)
  thermal stability of organic-encapsulant, for insulating alternator electronic-control components in SNAP-8, 21:20608(R) (NASA-CR-54716)
  use as binder in Fort St. Vrain Power Reactor Unit 1 carbon-coated particle-type fuel of phenolic, description of, 23:9117(R) (GA-7453)
  use as binders in reactor fuels, 23:4168(R) (GA-7981)
  use as binders in reactor fuels, 23:4170(R) (GA-8270)
  use as binders in reactor fuels, 23:4169(R) (GA-8038)
  use in preparation of cement and plaster shielding materials, 22:28905(P)
  use in preparation of shielding materials containing boron compounds, 22:15549(P)
  use in production of laminated radiation-resistant panels, 22:9417(P)
  use in removing strontium from milk, 21:32662
  use in resin—glass composites for encapsulation of magnet coils, 22:10456
  use of chromium-51-labeled, in therapy, dosimetry of, 21:28578
  use of formvar, for coating nitrocellulose windows of proportional counters, 21:32401
  use of ion exchange, for removing strontium-90 from milk, 21:24431
  uses for formation of agglomerated fission product-retaining layer on fuel elements, 24:14918(P)
Resistance
    see Electric Conductivity
Resistance Furnaces
    see Furnaces
Resistance Heaters
    see Heaters
RESISTANCE THERMOMETERS
  current supply for, constant, 25:33402(R) (ORNL-4669)
  design and performance for temperature measurements in liquid sodium, 22:36453 (LMEC-Memo-68-10)
  design and performance of amorphous, for low temperatures, 24:53028 (CALT-822-14)
  design of radiation-resistant metallic, for low temperatures, 25:39788
  drift rates of SNAP high temperature platinum, measurements of, 22:14237 (ANL-7380, pp 47-51)
  performance of carbon, in magnetic fields up to 100 kOe in pumped liquid helium and hydrogen temperature ranges, 23:36628
  performance of platinum, for reactor in-core measurements, 25:41621
  radiation effects on, review of, 22:30926
  response characteristics of reactor, analytical and experimental determinations of, 23:34908 (DUN-SA-101)
  response characteristics of, use of transient temperature information for computation of, 23:35563
  use of fusible metal, to measure temperature of irradiation capsules, 21:30647
  use of liquid semiconductor, for temperature measurements in reactors, 22:28260
Resistivity Meters
    see Rhometers
RESISTORS
  calibration of composite carbon, for measuring 3-MeV accelerator terminal voltages, 23:9805
  design of liquid, for energy absorption from capacitor bank discharge, engineering drawings for, 23:17665
  design of spinning thermistor for measuring temperature of NMP sample, 23:9799
  design of stable high-resistivity liquid, 24:47550(P)
  design of voltage-divider board of composite carbon, for terminal voltage measurements for Dynamitron 3-MeV generator, 23:27909 (N-69-14398)
  development of liquid, for thermonuclear research, 24:24059 (LA-4250, pp DII.9.1-6)
  development of precision coaxial Manganin, for measuring and controlling magnet currents, 25:50373
  fabrication and electric properties of boron-ion-implanted planar silicon, 25:37680
  fabrication by neutron-transmutation doping, 24:50649
  fabrication of calcium oxide—zirconium oxide, for furnaces, 22:8812(P)
  fabrication of high-ohm silicon oxide—nickel film, 21:26125 (SC-TM-67-121)
  fabrication of nonstoichiometric vanadium oxide thermally sensitive, method for, 25:35542(P)
  fabrication of thin-film chromium—silicon monoxide, for integrated circuits for space use, 25:21526
  measurement of high-megohm, design of bridge for, 21:3341 (SC-TM-66-558)
  physical principles of practical liquid, for pulse voltages, 24:16368(T) (LA-4144-tr)
  production of cermet, by sputtering, 22:722(R) (AD-648018)
  production of, use of chromium—silicon—tungsten alloy powders in, 21:41668
  radiation effects on circuit, x, 22:13043
  radiation effects on conductivity of silicon carbide, gamma, (E), 25:44749
  radiation effects on electric properties of black silicon-carbide varistors, neutron, 25:55103
  radiation effects on electric properties of, 1.5-MeV electron and gamma, 23:2731 (HMI-B-72)
  radiation effects on silicon carbide, gamma, (E), 25:57903
  radiation effects on thermistors, review of, 22:30926
  radiation effects on thin film nichrome and tantalum, fast neutron, 22:33704
  radiation effects on volt—ampere characteristics of black silicon carbide varistors, fast neutron, 25:51956
  radiation effects on, manual on, 21:18303 (UCID-4544)
  radiation effects on, statistical prediction of, 21:1923
  radiation stability of thin-film chromium—silicon monoxide, for integrated circuits for space use, 25:21526
  radioinduced gas desorption from black silicon-carbide varistors, gamma, 25:55102
  testing of Halden Boiling Reactor fuel element burnout detector fuel canning and cable insulation, analysis of in-pile, 22:44823 (HPR-77)
  thermal stability of thin-film chromium—silicon monoxide, for integrated circuits for space use, 25:21526
  use of thermistors for temperature control of neutron scattering targets, 22:2473
Resistors, Fluidic
    see Fluidic Devices
Resonance Baryons
    see Baryons, Resonance
Resonance Mesons
    see Mesons, Resonance
Resonators
    see Cavity Resonators
RESORCINOL
  complexes with tantalum, spectrophotometric determination based on, 23:11404
  complexes with uranyl ions, spectrophotometric studies of, 21:54
  effects on chromosomes in onion root cells, aberrant, 24:7807
  radiation effects on detoxication of, in rats, role of coenzyme A in x, 22:23474
  radiation effects on powders and single crystals of, at 77°K, ESR studies on γ, 23:35165
  radiation effects on single crystals of, ESR studies of gamma, 21:25920
  radiation effects on sorption of, by lithium, potassium, and sodium forms of KU-2 ion exchanger, γ, 22:27814
  radiolysis at low temperature, EPR studies on mechanism of free radical production from, 23:35217
  radiolysis of, ESR spectral studies on effects of temperature on cyclohexadienyl radicals produced by γ, 24:11598
  reactions with hydrogen peroxide, use in volumetric determination of metals, 21:21892
  4-(2-PYRIDYLAZO)-, reactions of, with uranyl ions, 21:15848
  4-(2-PYRIDYLAZO)-, use in spectrophotometric determination of lanthanum, rare earths, and yttrium, 21:19545
  4-(2-PYRIDYLAZO)-, use of, in determination of uranium, 21:15848
  4-(2-THIAZOLYLAZO)-, complexes of, with uranyl ions, 21:12350
  4-(2-THIAZOLYLAZO)-, complexes with metal ions, stability constants for, 21:34267
  4-(2-THIAZOLYLAZO)-, substituted, complexes with metal ions, stability constants for, 21:34267
RESORCINOL, 4-[(5-CHLORO-2-HYDROXYPHENYL)AZO]-
  complexes with scandium, spectrophotometric studies on, 23:28694
RESORCINOL, 4-[(2-HYDROXYPHENYL)AZO]-
  complexes with scandium, spectrophotometric studies on, 23:28694
RESORCINOL, 2-METHYL-
  hydrogen exchange with tritium in, effects of concentrated aqueous acids on kinetics of, 21:23900
RESORCINOL, 4-[[5-(1-METHYL-2-PIPERIDYL)-2-PYRIDYL]AZO]-
  uses in extraction-photometric determination of zirconium in hafnium- and zirconium-containing ores, silicate minerals, and zirconium ores, 24:5587
RESORCINOL, 4-(2-PYRIDYLAZO)-
  complexes with gallium, photometry of, 23:47378
  complexes with hydroxylamine and molybdenum, use in spectrophotometric determination of molybdenum, 23:21649
  properties for use as spray reagent in colorimetric determination of metals following thin-layer chromatography, 24:22758
  use in spectrophotometric determination of niobium in steel, 22:25283
  use in spectrophotometric determination of niobium in zirconium, 22:16440
  use in spectrophotometric determination of trace amounts of niobium in metals, 22:25268
RESORCINOL, 4-(2-THIAZOLYLAZO)-
  properties for use as spray reagent in colorimetric determination of metals following thin-layer chromatography, 24:22758
  use in photometric determination of uranium in ores, 23:19632
  uses for spectrophotometric determination of thorium, 24:4228
α-RESORCYCLIC ACID
  complexes with uranyl ions, preparation of, 22:37723
β-RESORCYLIC ACID
  complexes with uranium, stability constant for, 21:5867
  complexes with uranyl ions, preparation of, 22:37723
  complexes with uranyl ions, spectral and thermodynamics studies on, 25:41830
  decarboxylation in aqueous hydrochloric acid solutions, effects of deuterium on kinetics of, 24:27096
  methyl ester, radiation effects on, in tritiated water, electron, 21:15955
  use for colorimetric determination of iron, vanadium, and uranium, 23:21636
β-RESORCYLALDEHYDE
  complexes with metals, stability constants for, 24:2191
  thiosemicarbazone, reactions with nickel, properties and uses of compound formed by, 24:20699
RESPIRATION
    see also Breath
    see also Respiratory System
  effects of adrenal hormones on, in irradiated rats, 21:8885
  effects of cellular, in rejoining of chromosome breaks, 21:16331
  effects on distribution of aerosol particles in lungs of man, 21:41419
  effects on results of radioisotope scans of liver, 23:6498
  effects on results of radioisotope scans of liver, 23:6497
  effects on retention of iodine-132-labeled methyl iodide in man, 21:45545
  effects on x-radiosensitivity of cultured hamster cells, 23:45867
  effects on x-radiosensitivity of nuclei in thymocytes of rats, 22:21437
  exhalation measurements, Peltier equipment for radium-226 determination in body by, 23:35557

- inhibition and stimulation in mitochondria from rat liver, effects of metal cations on, 21:22243 (UCRL-50168)
- inhibition in cultured Chinese hamster cells, effects of glucose-induced, on x-radiosensitivity, 22:25714 (COO-78-163, pp 126-36)
- inhibition of, in Ehrlich ascites carcinoma by aqueous extracts of uv irradiated linoleic or linolenic acid, 21:6463
- measurement in forest ecosystem, techniques for, 21:22233 (BNL-994, pp 113-23)
- measurement in lungs of mammals, design of x-ray equipment for, 21:45742
- measurement of cycles of, in dogs, development of equipment for, 22:47397 (BNWL-715(Pt.1), pp 38-41)
- measurement of human, biochemical, physical, and technical factors for use of carbon-14-labeled carbon dioxide for, 25:16016
- measurement of rate of, in cotton rats, use of cesium-134 retention for, 23:20101
- measurement of rate of, in fish, tracer method for, 22:10728
- measurement of rate of, in soybean canopies, 21:28685
- measurement of, in animal tissues, methods for, 21:10999
- measurement of, using carbon-14-labeled substrates and external counting technique, 21:39331
- measurements of regional pulmonary ventilation during, use of americium-241 γ densigraphy for, 23:6516
- mouse tissue, effects of compounds of BAL with metal enzymes on, 21:22634
- oxygen-15 tracer techniques for studies of, 21:10757
- radiation effects on capacity for, of rat leukocytes, β and x, 22:23607
- radiation effects on carbon dioxide, of fresh fruit, γ, 24:48786
- radiation effects on cellular, effects of pyridine nucleotides on uv, 25:13607
- radiation effects on cellular, in excised root tips of corn and peas, effects of dose on β, 24:44417 (UCB-34-P-147-X-3, pp 1-4)
- radiation effects on cellular, in Photobacterium fischeri, x, 21:34839
- radiation effects on chick embryo, γ, 21:26646
- radiation effects on human external, following therapy of malignant chest tumors, γ, 25:55339
- radiation effects on in vitro, of guinea pig skin, microwave, 22:51982
- radiation effects on mitochondrial control of, in apples and pears, γ, 21:11137
- radiation effects on mouse, following administration of carbon-14 labeled glucose, 21:24547 (NIRS-5, pp 28-46)
- radiation effects on plant, following seed exposure, γ, 21:22781
- radiation effects on porphyrin complexes of, in tissues, mechanism of recovery from, 22:23425
- radiation effects on rate of, in fruits and vegetables, γ, 22:8671
- radiation effects on rate of, in liver of mice, x, 23:35645
- radiation effects on rate of, in nectarines and peaches, cobalt-60 γ, 22:15132
- radiation effects on rate of, in rabbits following administration of zirconium citrate, effects of synchronous calcium gluconate administration on whole-body γ, 25:11289
- radiation effects on rate of, in rats, tritium β, 22:19412
- radiation effects on rate of, in Shamouti oranges, γ, 21:28672
- radiation effects on rate of, in tomato fruits, γ, 24:17187
- radiation effects on rate of, in tomatoes during ripening, γ, 22:43518
- radiation effects on rate of, of ponies, effects of work on γ, 25:16314 (ORO-678, pp 41-6)
- radiation effects on reflexes of, in cats, x, 21:4858
- radiation effects on sensitivity of, in cats to cystamine, x, 22:31245
- radiation effects on tomato, γ, 21:28391
- radiation effects on, γ, 24:50772
- radiation effects on, in ascites and thymocyte cells, γ and x, 21:16300
- radiation effects on, in ascites sarcoma cells, magnetic field, 25:6642
- radiation effects on, in Azotobacter, γ, 22:21428
- radiation effects on, in biological materials, laser, 24:2569
- radiation effects on, in brine shrimp, effects of dose and salinity on γ, 22:43400
- radiation effects on, in cells of human skin, uv, 23:38468
- radiation effects on, in cultured brain cells from rats, laser, 22:43444
- radiation effects on, in cultured guinea-pig skin, pulsed microwave, 24:27545
- radiation effects on, in cultured human and hamster cells, x, 21:12810 (UCRL-16898, pp 72-81)
- radiation effects on, in cultured mammalian cells, ionizing, 24:27522 (CONF-690540-, pp 13-21)
- radiation effects on, in dogs, design of monitor for studying, 21:45451 (BNWL-481-4, pp 30-4)
- radiation effects on, in erythrocytes of rabbits, effects of chemicals on x, 22:45428
- radiation effects on, in Escherichia coli, cobalt-60 γ, 23:50966 (RLO-1950-3)
- radiation effects on, in fruits and vegetables, 23:50975
- radiation effects on, in fruits and vegetables, effects of dose on, 21:9036 (NYO-3274-4)
- radiation effects on, in fruits, γ, 24:51117(R) (ORO-677)
- radiation effects on, in human leukocytes during phagocytosis, x, 22:36180
- radiation effects on, in human tumor cell cultures, x, 22:43211
- radiation effects on, in kidneys of rats, internal β and γ, 22:49334
- radiation effects on, in L cells, γ, 21:45497(R) (N-67-23267)
- radiation effects on, in leaves and roots of sugar beets, γ, 21:6717
- radiation effects on, in lemons, mechanisms of γ, 21:41528
- radiation effects on, in liver mitochondria, effects of galascorbin on, 22:51385
- radiation effects on, in liver of frogs, effects of season on γ, 23:43875
- radiation effects on, in man following therapy and mastectomy for carcinomas of breast, 24:909
- radiation effects on, in mice, effects of mouse strain on rate of, x, 21:8930
- radiation effects on, in mitochondria from brain and liver of rats, effects of radioprotective compounds on, 21:22636
- radiation effects on, in neuroglia cells and neurons of rabbits, x, 24:31848
- radiation effects on, in organs of embryos, protective effects of cysteamine against, x, 25:11096(R) (EUR-4491)
- radiation effects on, in pea plant germinants, 22:15116
- radiation effects on, in pear tissues, 21:6711(R) (UCD-34-P-112-28)
- radiation effects on, in pupae of Sarcophaga peregrina flies, x, 21:12977
- radiation effects on, in rabbit mitochondria, effects of protective agents against γ, 21:34705
- radiation effects on, in rat liver and spleen, combined effects of ethanolamine with, 21:22326
- radiation effects on, in rat liver and spleen, whole-body x, 21:8852
- radiation effects on, in rat thymus nuclei, protective effects of cysteamine against, 23:50632
- radiation effects on, in rat tissues, neutron and x, 22:16981
- radiation effects on, in rats, following inhalation of plutonium-239 α and γ, 23:17947
- radiation effects on, in ripening pear fruits, γ, 22:49637
- radiation effects on, in Sarcophaga pupae, x, 21:28630
- radiation effects on, in soils, γ, 22:23450
- radiation effects on, in thymocytes of rats, x, 22:21437
- radiation effects on, in ticks, effects of dose on γ, 24:32172
- radiation effects on, in tissues of mice, x, 21:45790
- radiation effects on, in tissues of rat brain, in vitro x, 22:49495
- radiation effects on, in tissues, ionizing, 21:30876
- radiation effects on, in tomatoes, effects of dose rate on γ, 24:48788
- radiation effects on, in transplanted rat carcinomas, effects of iron content on x, 21:1832
- radiation effects on, of Alfonso mangoes, effects of combined skin-coating and treatment with air, carbon dioxide, or nitrogen on, 21:41527
- radiation effects on, of apples, effects of dose on γ, 23:50974
- radiation effects on, of bacteria, effects of culture media on x, 21:22820
- radiation effects on, of cats, partial body microwave, 23:48220
- radiation effects on, of cells of adult and embryonic kidney and liver of mice, ascites sarcoma, Ehrlich ascites carcinoma, and yeast, effects of field strength on magnetic, 25:6643
- radiation effects on, of dogs, proton, 22:23670
- radiation effects on, of embryonic chicken intestines, protective effects of cysteamine against x, 23:6548
- radiation effects on, of Escherichia coli, uv, 22:28288 (ORNL-4100, pp 166-77)
- radiation effects on, of fresh tropical fruits, γ, 23:10145 (UH-235-P-5-3, pp 127-39)
- radiation effects on, of germinating barley seeds, 22:49187
- radiation effects on, of leukocytes in rats at rest and during phagocytosis, phosphorus-32 β, 23:29789
- radiation effects on, of liver mitochondria in rabbits, effects of oxygen inhalation on local and whole-body, 23:6358
- radiation effects on, of mice following uptake of carbon-14-labeled serine, x, 22:28630 (ORNL-4100, pp 118-26)
- radiation effects on, of microorganisms in soil, γ, 21:22371
- radiation effects on, of microorganisms, design of Warburg apparatus for measurement of x, 24:16935
- radiation effects on, of radioresistant and radiosensitive Escherichia coli, uv, 24:928
- radiation effects on, of seedlings of Phaseolus vulgaris, β, 21:9021
- radiation effects on, of silkworm ova, γ, 21:13046
- radiation effects on, of spores of Bacillus cereus, effects of temperature on γ, 22:49235
- radiation effects on, of Streptococcus lactis, γ, 22:40567
- radiation effects on, of Tetrahymena pyriformis, effects of pH on γ, 22:25988
- radiation effects on, of thymocyte nuclei, mechanisms of in vitro and in vivo γ, 24:27532
- radiation effects on, of yeast cells, cytophysiological study of recovery from, 22:31290
- radiation effects on, of yeast cells, uv, 22:31024
- radiation effects on, of yeast, effects of dose on, 22:26001
- radiation effects on, response of rats to morphine, 22:21615
- radiation sickness effects on, of rabbits, combined effects of blood loss on, 22:33911
- radiography of lungs during, use of impedance pneumography x-ray actuator for, 22:49400
- radioinduced changes in Vicia root cells, role of radiotoxins in x, 23:16436
- radioinduced cytoplasmic mutations affecting, in radiosensitive yeasts, uv, 23:6418
- radioinduced deficiency of, in yeast, uv, 22:40638
- radioinduced inhibition of rate of, in pea sprouts, γ, 21:4753
- radioinduced inhibition of, in barley, synergistic effects of sodium azide on barley, 24:21319 (RLO-353-36)
- radioinduced inhibition of, in cultures of embryonic chick intestine in presence of cysteamine, effects of time of cysteamine-administration on x, 21:12939
- radioinduced inhibition of, in tomatoes, γ, 24:48774
- radioinduced relief of stress in, effects of iodine-131 therapy of thyroid gland on, in hyperthyroid man, 21:11106
- radioisotope deposition during, use of tidal volume for calculation of, 21:24283 (BNWL-SA-1004)
- radioisotope localization of ventilation deficits in, 21:43480
- rate in cotton rats, cesium-134 tracer study of, 22:14914 (ORNL-TM-2069)
- rate in Escherichia coli, effects of growth on γ-irradiated media on, 22:51472
- rate in man, effects of, on uptake of iodine-132 vapors, 22:51342
- rate in rat liver, effects of cysteamine on, 24:7929
- rate in rats, effects of anesthesia on, 21:26576
- rate in wood-feeding insects, effects of temperature on, 24:23093
- rate of regional, in human brain, use of oxygen-15 scanning for measurement of, 23:45819
- reaction mechanisms for, in plant mitochondria, 22:1927(R) (NYO-3729-1)
- reduction in rate of, in rats, effects of x radiation and injections of thorazine, 21:10951
- regeneration of air mixture for, in radioprotective clothing, 21:39428
- response in rats exposed to anions and cations induced in air by krypton-85, 21:24559
- scanning in lungs of dogs and man, use of xenon-133 for, 24:21229
- simulation of human, development of mechanical breathing machine for, 25:51349 (UCRL-51072)
- sodium azide effects on, of barley seeds, measurement of, 23:20432
- toxicity of copper for, in mitochondria of liver in rats, 21:42862 (UCRL-50274)

RESPIRATORS

- see also Gas Masks
- design and performance of, 21:32076 (UCRL-50263)
- design for air purification, engineering drawings for, 21:43107
- design for human metabolism studies, 23:49989 (BNWL-1051(Pt.2), pp 220-2)
- design for protection against radioactive aerosols, 22:40662(T) (JPRS-43578)
- design of high-resolution radiorespirometer for continuous determination of respiratory carbon-14-labelled carbon dioxide, 25:23923
- design of voice amplifier for use with full-face, 22:51567(R) (IN-1205)
- design of Warburg respirometer for measurement of x radiation effects on respiration of microorganisms, 24:16935
- design with gas analyzer for pulmonary function studies using xenon-133 tracer, 25:13223
- determination of face fit for, using pentyl acetate, 21:39405 (SC-RR-67-461)
- development of improved, for use in toxic atmospheres, 23:16318(P)
- development of model, for studies on properties of radioactive aerosols, 25:11036 (CEA-Bib-185)
- development of pressurized air-purification, for radon protection of uranium miners, 24:14139
- effectiveness for protection of personnel against inhalation of radioactive materials, 25:24186 (CEA-N-1408(3))
- effectiveness for protection of personnel against radioactive gases, 24:7866
- efficiency for protection against radon daughter inhalation by miners, estimation of, 24:727
- efficiency for removal of tritium oxides, 22:2502 (AECL-2665)
- efficiency of dust, use of quantitative DOP man tests for measuring, 25:51303 (LA-DC-11959)
- filter materials for, radon daughter removal properties of, 23:47681
- filters for, effects of methyl iodide on charcoal, 21:26424 (UCRL-50007-66-2, pp 33-7)
- lens changer for full-face, 21:39192(R) (UCRL-50007-67-1)
- performance for protection against radioactive and toxic contaminants, dioctyl phthalate man tests on, 25:55243 (CONF-710401-, pp 392-406)
- performance for protection of operators of radiation decontamination facility using abrasive cleaning methods, 21:24401 (BNL-10076)
- performance in enriched uranium plant, 23:29535 (CONF-680503-6)
- performance of half-mask, field study on, 21:8803 (RFP-810)
- performance of open-circuit self-contained, at -25°F, 22:16349 (BM-RI-7077)
- performance testing of, 24:50926(T) (LA-4459-TR)
- performance testing of, methods for airtight fit of face masks, 24:50927(T) (LA-tr-70-17)
- protection against inhalation of radioactive substances, 21:32677
- protective effects of filter-type, against radon decay products in uranium mines, 22:19328(R) (COO-1500-5)
- radioprotective effects of, against tritium inhalation by man, 22:8527 (SC-DC-67-2191)
- seals for, design of pressure-resisting, 24:16751(P)
- service life of cartridges of, in organic vapor atmosphere, 25:46416 (UCRL-73166)
- standards for air hose, for pressurized suits, 21:39392 (AHSB(RP)R-76)
- standards for, IAEA, 25:46860
- testing of automatic air purifying, 25:10752 (CEA-N-1360)
- testing of self-contained compressed-air, 22:36252 (HOHF-5)
- testing of, for radioactive contaminants, 24:31756

testing of, use of filter cartridge pressure drop for, of full-face, 21:26410 (HOHF-3)
use at Chalk River Nuclear Laboratories, Canada, program for, 23:16330
use for administration of labeled albumin aerosols to patients with respiratory tract ventilation deficits, 21:43480
use for radiation protection of personnel against atmospheric contamination in laboratories, 22:45575
use for radiation protection of respiratory tracts of personnel, 22:28481
use in radiation protection at Argonne National Laboratory, 21:1757
use of air-purifying, for protection against radon daughters in uranium mines, 23:16316
Respiratory Cycles
see Respiration
RESPIRATORY SYSTEM
see also Lungs
see also Pharynx
see also Trachea
activity of musculature of, in relation to life span of mammals, 23:4488(T) (ANL-Trans-566)
alpha activity in samples from human, at AERE, 22:38249 (BLG-371)
americium-241 removal from rat, effects of DTPA on, 25:49092
book: Clinical Radiation Pathology, Vol. 1, 23:8073
carcinogenesis in tissues of rat, following inhalation of cerium dusts and radon-222, 25:21837(T) (LF-tr-47)
carcinoma of, use of megavoltage radiotherapy in hyperbaric oxygen in treatment of, 21:26480
clearance of cesium-134-labeled ceramic particles from rat, 21:32558 (CONF-661018, pp 98-116)
clearance of chromium-51-labeled iron oxide dusts from, of man, 21:32600
clearance of gold-198-labeled iron oxide dusts from, of man, 21:32600
contamination with radioactive fallout, estimation of internal dose from, 21:26428
deposition and removal of particles in human, tracer studies of dynamics for, 23:9986 (UR-49-987)
deposition of aerosol particles in human, method for determination of, 23:29291
deposition of bromine-82-labeled aerosols in nasopharynx of human, mathematical analysis of, 23:22314
development in mammals, effects of changes in energetics during, on nature of adaptation derived, 23:4489(T) (ANL-Trans-569)
diseases of, occurrence of, in survivors of Hiroshima atomic bombing, 21:20283
distribution of insoluble and soluble dusts in, following inhalation, 23:7948
distribution of iron-59-labeled iron oxide in, of rats following inhalation, 21:10787
excretion of selenium through, of rats, 21:8682
fallout deposition in human, method for estimation of, 21:22427
function of human, effects of prolonged stay at high altitude on, 23:14278 (AGARD-CP-25)
function of, effects of air blasts on, 24:41087(R) (DASA-2461)
iodine-125 distribution in tracheal mucosa of, in thyroidectomized guinea pigs, autoradiographic study of, 23:50287
iodine-131 distribution in, of monkeys, kinetic analysis of, 21:32569
iodine-131 metabolism in human, following inhalation, 24:14402
iodine-131 metabolism in, of guinea pigs and rats, effects of drugs on, 22:431
lanthanum-140-labeled aerosol distribution in, of dogs, in relation to particle size, 24:34018 (LF-41, pp 82-7)
metabolism of sulfur-35-labeled sulfur dioxide in dog, 21:6410
model of human, for study of radon daughter deposition in, 25:37712 (BNWL-1551(Pt.2), pp 65-9)
morphology of carcinogenesis in, conference on, Gatlinburg, Tenn., May 13 to 16, 1970, 25:32526 (CONF-700501)
particle clearance from, following inhalation in aerosols, mechanisms for, 24:16950(R) (COO-1181-1)
patency of bronchi in, of dogs and man using inhalation of radioactive aerosols, 22:38399
plutonium uptake by bronchial lymph nodes of, development of scintillation probe for detection of, 25:37713 (BNWL-1551(Pt.2), pp 72-9)
plutonium-238 uptake by, in dogs, following inhalation of plutonium oxide aerosols, effects of particle size on, 24:25367 (BNWL-1221, pp 4.1-26)
plutonium-239 content of human, during 1964 and 1965, 22:40678
plutonium-239 deposition in human, estimates at Hanford facilities of, (E), 22:12473 (BNWL-495)
polonium-214 distribution in dog and rabbit, after radon inhalation, 25:39795(T) (AEC-tr-7232, pp 145-54)
polonium-218 distribution in dog and rabbit, after radon inhalation, 25:39795(T) (AEC-tr-7232, pp 145-54)
protection against radioactive aerosols, research studies on, 22:23508 (SC-M-67-2973)
protection of human, activities of Leipsig Working Group for, 25:6235(T) (LA-4442-TR)
radiation dose to bronchial epithelium in, following inhalation of polonium-214, polonium-218, or plutonium-239, methods for calculation of α, 25:42394(R) (NYU-4256-1)
radiation dose to human, effects of polonium-210 content of tobacco smokes on α and γ, 22:38275
radiation dose to human, following inhalation of radioactive aerosols, computer program for estimating, 24:50922
radiation dose to human, following inhalation of radioactive aerosols, β, 23:38588
radiation dose to human, from fallout, development of graded filtration sampler for determining, 22:33821
radiation dose to organs of, from inhalation of radioactive dusts, 22:4601 (CEA-R-3234)
radiation dose to, following inhalation of surface contaminants, determination of, 22:23544
radiation dose to, of man, following inhalation of radon decay products, 22:31082
radiation dose to, of mining uranium personnel, γ, 23:29498 (COO-1500-12)
radiation dose to, of uranium miners from inhalation of radon daughters, calculation of exposure in working level months for, 24:17051
radiation dosimetry in, of uranium miners, radon and radon decay product γ, 24:7840
radiation effects on epithelium of trachea of, in rabbits, effects of dose fractionation on x, 22:31257
radiation effects on function of human, following therapy, ionizing, 24:21310
radiation effects on function of upper, in nuclear personnel, 24:46680
radiation effects on human, following inhalation of radioactive aerosols, 22:23508 (SC-M-67-2973)
radiation effects on human, following therapy for lung neoplasms, electron and photon, 25:32598
radiation effects on human, ionizing, 24:36840
radiation effects on immunity to infections of mice, γ, 21:6608 (AD-640500)
radiation effects on incidence of viruses in tissues of, in dogs following inhalation of cerium-144 and strontium-90 aerosols, 22:19236 (LF-36)
radiation effects on morphology and physiology of, in rabbits, effects of dose on x, 23:6573
radiation effects on nasopharynx in human, cellularization and granulocyte alkaline phosphatase content following, 25:44955
radiation effects on rabbit bronchial epithelium cells, γ, 25:32584
radiation effects on reflex function of, in cats, x, 21:4858
radiation effects on reflex response of, in cats to simultaneous stimulation of mechanoreceptors in different visceral organs, x, 25:11282
radiation effects on tissues of, additive effects of cortisone on pathological x, 25:32564
radiation effects on, carcinogenic, 23:14158(T) (TT-67-51409/4, pp 215-21)
radiation effects on, design of respirators for protection against radioactive aerosol, 22:40662(T) (JPRS-43578)
radiation effects on, following inhalation of radon and thoron decay products, 21:22353
radiation effects on, in man, review of literature on, 25:11209
radiation effects on, of animals and man, histopathology of, 22:36377
radiation effects on, of animals following inhalation of α-emitting radioisotopes, 24:50674(R) (BNWL-1306(Pt.1))
radiation effects on, of dogs, 21:16483
radiation effects on, of dogs and hamsters following chronic inhalation of simulated uranium mine atmosphere, 24:50674(R) (BNWL-1306(Pt.1))
radiation effects on, of Shetland ponies, cobalt-60 γ, 24:12234 (ORO-672, pp 62-3)
radiation protection methods for human, in Soviet Union, 22:40731
radiation protection of, in personnel, use of gas masks and respirators for, 22:28481
radiodiagnosis of bronchial carcinomas in human, using color scintigraphy, 21:10984
radiodiagnosis of function of, 21:43482
radiography of human, radioisotope scanning method for evaluating lung perfusion following, 25:55285
radiography of human, statistics on, 24:7955
radiography of human, testing tantalum aerosols for use as radioopaque agent for, 25:42558
radioinduced carcinogenesis in, of uranium miners and processors, 21:16490
radioinduced changes in predominant bacterial species in, of man, whole-body γ, 21:45777 (ORAU-101, pp 14-17)
radioinduced injuries to human bronchi and trachea of, following therapy of cancer, electron, 23:16422
radioinduced neoplasms in, of dogs and rats following inhalation of plutonium-239 aerosols, α, 25:6662 (BNWL-SA-3552)
radioinduced obstruction to human bronchus of, following therapy of cancer, cobalt-60 γ, 23:16423
radioinduced physiological abnormalities of, in uranium mining personnel, α, 24:27567
radioisotope absorption by, of personnel in contaminated areas, 22:38298
radioisotope applications in clinical studies of human, 24:50994
radioisotope content of cattle, γ spectrometry for determination of, 23:33707(T) (ORNL-tr-2141)
radioisotope deposition in human, ICRP recommendations regarding MPC for, 24:27581 (CONF-690540-, pp 329-55)
radioisotope deposition in, of man, use of ICRP lung model for estimation of, 21:32639 (CONF-661018, pp 74-86)
radioisotope distribution in nasopharyngeal region of human, following uptake as labeled aerosols, effects of flow rate and pressure on, 24:48368 (AERE-R-5860)
radioisotope distribution in upper, of dogs and monkeys following inhalation in various forms, 25:46701
radioisotope distribution in, of dogs, following inhalation, autoradiographic study of americium-241, cerium-144, lanthanum-140, and yttrium-90, 24:34019 (LF-41, pp 88-93)
radioisotope metabolism in, of clams, manganese-54 and zinc-65, 23:17895 (CONF-670503-, pp 198-220)
radioisotope monitoring and radiation dose evaluation in, systems for, 24:22993
radioisotope uptake by human, effects of particle size and properties on, 22:33715 (SZS-15/67)
radioisotope uptake by human, survey of americium, curium, neptunium, and plutonium, 22:30935 (SZS-16/67)
radiotherapy of advanced cancers of, metastases following x, 21:20404
radiotherapy of bronchial carcinoma in human, effects of dose on survival time following postsurgical cobalt-60 γ, 24:23288
radiotherapy of bronchial carcinoma of, 21:16414
radiotherapy of bronchogenic carcinomas of, evaluation of results of preoperative γ, 21:22549
radiotherapy of bronchogenic carcinomas of, preoperative, 21:22624
radiotherapy of cancer of, effectiveness of presurgical, 21:22558
radiotherapy of carcinoma of, of man, bronchographic study of x, 22:15053
radiotherapy of carcinomas in, of man, development of malfunctions in esophagus and lungs following high-energy x, 23:38839
radiotherapy of carcinomas of human, serum enzyme content following, 23:20096
radiotherapy of carcinomas of larynx of, dosimetry for, 21:14684
radiotherapy of carcinomas of, calculation of total integral and relative doses for, 23:20223
radiotherapy of lymphoid hyperplasia in nasopharyngeal, of children, survey of complications from, 21:26498
radiotherapy of neoplasms of human, high energy electron, 23:12167
radiotherapy of tumors of, use of electron beams for, 21:28509 (ACRH-1000-6)
radon decay product distribution in mucosa of, in dogs and rabbits, 24:44411
radon decay products in, of uranium mining personnel, 23:38582
radon decay products in, of uranium mining personnel, 22:19328(R) (COO-1500-5)
radon dosimetry in human, effects of occupational environment on, 21:22428
radon progeny in, of uranium miners, determination of, 21:20167(R) (COO-1500-3)
scanning of human, radioisotope methods for, 25:35181
sodium-24 deposition in, of rats following inhalation of labeled aerosols, 25:24037
synthesis of DNA in normal and malignant cells of, of man, double labeling method for measurement of duration of, 24:44401
uptake of radioactive aerosols by, of man, effects of particle size on, 23:6480
uranium content in rat, following inhalation of uranium dioxide, 21:22429
water aerosol delivery to lower human, use of technetium-99 labeled aerosols to study, 23:24400
zirconium-95 particles in, distribution of, 21:14571
RETICULINE
role in biosynthesis of thebaine in opium plants, 23:9845 (UCRL-18216, pp 1-43)
RETICULO-ENDOTHELIAL SYSTEM
see also Bone Marrow
see also Hematopoietic System
see also Immunity
see also Liver
see also Phagocytosis
see also Spleen
accumulation of Thorotrast in, following use in radiography, 21:6637
activity of, in radioinduced syngenic fetal liver chimeras in mouse, 21:10922
antibody response in, cytokinetics of secondary, 21:22477 (BNL-994, pp 124-39)
cells of, in human beings, effects of colloidal radionuclides on, 21:11015
determination of phosphorus-32 localization in mouse, following injection of labeled zirconyl phosphate, 21:3380
effects on radiosensitivity of mammals, 21:30863
evaluation of phagocytic activity of entire, using chromium-51 labeled and heat-altered erythrocytes, 21:22646
evolution in tunicates, use of x-irradiated tissue transplants in studies of, 24:48672
function in animals, tracer study of, effects of biological stress of space flight environment on, 23:43655
function in patients with thyrotoxicosis, study of, using gold-198, 21:28532
galactosyl ceramide distribution in monkey, tritium tracer study of, 24:25375
gold-198 clearance from, in rabbits, effects of polyvinylpyrrolidine-N-oxide on, 24:34056
gold-198 colloid uptake by, of bone marrow, scintiscanning of thigh for measurement of intravenously injected, 25:6729
gold-198 content in, of rats, effects of acidity, medium, and particle dispersion on colloidal, 25:23971(T) (AEC-tr-7195, pp 197-208)
gold-198 transport by elements of, pharmacological study of colloidal, 21:32557 (CEA-R-3064)
gold-198 uptake by rabbit and rat, effects of DDT on, 21:8709
iodine-131 metabolism in, iodine-131-labeled colloid for study of, 23:29293 (CEA-R-3240)
iron metabolism in, double tracer study of, 24:39536
iron-59 metabolism in, of man, effects of blood disease on, 24:50688
manganese-54 distribution in, of rats following intravenous administration, 25:23970(T) (AEC-tr-7195, pp 192-6)
phagocytic activity in rat, after vaccination with irradiated Plasmodium berghei, 25:21612
phagocytic activity of cultured cells from, of rats, effects of environmental factors on, 22:25229 (UR-49-919)
phagocytic activity of rat, effects of, on response to traumatic shock, 22:40846
phagocytosis of cobaltic oxide and thorotrast by, 21:3394
phagocytosis of colloidal particles by macrophage cells of, effects of opsonin on recovery from depressed, 23:43709(R) (ORO-3853-85)

- phagocytosis of gold radioisotope colloids by, of rats, method for determining kinetics of, 24:48376
- phagocytosis of particles by, effects of puromycin on opsonin dependent recovery from blockade of, 23:43709(R) (ORO-3853-85)
- phagocytosis of plutonium oxide particles by cells of, in rats, 23:6434 (BNWL-714, pp 6.1-21)
- phosphorus-32-labeled dipine distribution in rat, 25:32344
- physiology of use in diagnosing erythrocyte damage in spleen of man, 21:43485
- radiation effects on antibody production and lymphocyte proliferation in, following phagocytosis of colloidal gold-198 by macrophages, 23:38440
- radiation effects on cells and fibers in, whole-body γ, electron microscope studies, 22:15109
- radiation effects on cells of, in mice and rats, x, 21:45841
- radiation effects on digestive and phagocytic functions of, of rats, tracer study of ionizing, 22:23610
- radiation effects on function of human liver, following radiotherapy, 21:20354
- radiation effects on function of rabbit, combined effects of hemorrhage on, 23:10078
- radiation effects on function of, in bursectomized and thymectomized chickens, x, 21:6646
- radiation effects on function of, in man and rabbits, effects of body temperature on x, 21:36738
- radiation effects on function of, in rabbits and rats, combined effects of sex hormones on thorium dioxide, 23:26666
- radiation effects on hematopoiesis in tissues of, in mice, effects of limb shielding on x, 22:12903
- radiation effects on human, following presurgical therapy, γ, 23:48243
- radiation effects on immune reactions of, in mice following injection of chromium-51-labeled Escherichia coli, whole-body x, 24:25419
- radiation effects on immune reactions of, in mice, following infection with Pasteurella tularensis, γ, 23:35661 (AD-681376)
- radiation effects on ingestion of gold-198 by cells of, in liver of rabbits, 23:41443
- radiation effects on macrophages of, immune reactions following, 25:21812
- radiation effects on morphology and phagocytic activity of macrophages in, of mice, x, 22:36195
- radiation effects on mouse, effects of glucan on γ, 25:26947
- radiation effects on mouse, protective effects of cysteamine, lipopolysaccharide, and serotonin against x, 25:42513
- radiation effects on phagocytic activity of cells of, in rats, protective effects of bacterial antigens, epinephrine, and pilocarpine against x, 25:13567
- radiation effects on phagocytic activity of cells of mouse, radar microwave, 21:3446
- radiation effects on phagocytic activity of, in liver, 21:41514
- radiation effects on phagocytic activity of, in mice, x, 22:43438
- radiation effects on phagocytic activity of, in mice, mechanism of x, 24:48687
- radiation effects on phagocytic activity of, in mice, effects of dose on x, 24:48690
- radiation effects on phagocytic activity of, in rats, whole-body x, 21:26557(R) (NYO-1680-1)
- radiation effects on phagocytic activity of, in thymectomized mice, 21:22250
- radiation effects on phagocytic activity of, role of opsonin in x, 23:43709(R) (ORO-3853-85)
- radiation effects on phagocytic and proliferative activity of, of mice, effects of antibiotics and glucan on γ and x, 24:32191
- radiation effects on phagocytic capacity of cultured cells of mouse, x, 21:22297
- radiation effects on phagocytic function of cells of, in rats, γ, 24:27682
- radiation effects on phagocytic function of, in rats, γ, 22:45706
- radiation effects on phagocytosis by, of rats, effects of fractionated or single dose on x, 24:826
- radiation effects on phagocytosis in, in rats, comparison of single dose with fractionated dose fractionation for cobalt-60 γ, 24:34096
- radiation effects on phagocytosis in, of rats, whole-body x, 23:35898
- radiation effects on rabbit, lethal x, 25:32542
- radiation effects on rat, effects of, on interaction between macrophages and plasma cells, radiogold, 23:47980
- radiation effects on stimulation of, of organs of rabbits, zinc-65 γ, 25:21876
- radiation effects on, in man and mice, review of, 21:45831
- radiation effects on, in relation to immune reactions, 25:44778
- radiation effects on, mechanism of γ, 21:32752
- radiation effects on, of animals and man, histopathology of, 22:36377
- radiation effects on, of man following therapeutic exposures, beta, γ and x, 22:36363
- radiation effects on, of mice, effects of adult or neonatal thymectomy on γ, 22:51927
- radiation effects on, of mice, effects of glucan and puromycin on γ, 22:45641
- radiation effects on, of mice, effects of penicillins on x, 23:2921
- radiation effects on, of rabbits, effects of low temperature on whole-body x, 23:14263
- radioisotope clearance from, of dogs following inhalation of thorium-228-enriched thorium dioxide, 25:49082
- radioprotective effects of blockage of, in mice, x, 25:26926
- radioprotective effects of increased function of, in rats, x, 21:43483
- radiosensitivity of, 21:41513
- radium isotope content of animal, following Thorotrast administration, model for, 23:29337
- removal of erythrocytes by human, 21:45671 (ORAU-101, pp 106-11)
- role in proliferation of tumor cells in γ-irradiated rats, 24:32036
- scanning of human, preparation of technetium-99-labeled rhenium sulfide colloid for, 25:19054
- scanning of, comparison of fluorine-18 and metastable technetium-99 for, 24:34460
- scanning organs of, using technetium-99m—sulfur colloid, 21:22537
- scanning using indium-113 in comparison to technetium-99, 23:45800
- scanning using metastable technetium-99, 25:2580
- scintigraphy in man with hematological diseases, use of technetium-99m colloids for, 25:58053
- silver-111 content of rat, effects of isotope carrier and pathway of administration on, 23:22173(T) (AEC-tr-6944, pp 188-93)
- synthesis of transferrin in, of radiation mouse-rat chimeras, 21:22710
- thorium accumulation in, of mice following intravenous injection, 23:41264
- thorium-232 accumulation in human, following injection of thorotrast, 24:29701
- thorium-232 content in, following use of Thorotrast, 21:22533
- Thorotrast accumulation in cells of, in rats, 23:26672
- uptake of intravenously injected gold-198 colloids by, effects of gelatin coating and particle size on, 22:51346

Retina
- see Eyes

REXALLOY 33
- corrosion by boiling hydrofluoric acid—nitric acid, effects of aluminum nitrate on, 21:34857 (BMI-X-434)

RFR
- see Rheinsberg Power Reactor

RG-1 Reactor
- see Reactors, Swimming-Pool

RHAMNOSE
- radiolysis of glassy aqueous solutions of, at 77°K, EPR studies of, 22:23052

RHEINSBERG POWER REACTOR
- control elements for, dynamic reactivity measurements for reactivity worth of, 23:34895
- control system of, design parameters and startup procedures for automatic, 25:50902
- cooling system of, analysis of radiolysis products in primary, 24:16084
- cooling system of, decontamination methods for primary, 24:16086
- core cooling following failure of main power supply, reliability of auxiliary power supply for, (T), 25:10093(T) (NP-tr-1928)
- design parameters for, 23:34894
- design parameters of, review of, 24:30966
- emergency control switching system for, reliability analysis of automatic, 25:10108
- emergency core cooling procedures for, during power failures, 25:1788
- fuel burnup during initial operation of, PYTHIA and SIBYLLE program calculations of, 23:47143
- fuel elements of, failure detection system for, 24:45861
- fuel elements of, fission product measurements in primary coolant for detection of failure of, 24:16085
- operation limits of, analysis of increase to 80 MW(e), 25:18074
- operation of, review of, 23:34894
- operation of, summary of, 25:34226(T) (JPRS-53069, pp 47-55)
- operation of, summary of initial, 25:48162
- operations during 1966 to 1970, review of, 25:36891
- operations of, 24:43634
- personnel for, training school for, 25:59916
- physics measurements for, evaluation techniques for zero power, 25:3777
- power failure in, emergency core cooling procedures during, 25:1788
- power level increase in, critical measurements on core mockup for, 24:24888
- radiation monitoring in, analysis of γ and neutron, 24:20476(T) (ORNL-tr-2289)
- radiation monitoring of, 24:13508
- safety systems for, design parameters of, 24:52846
- shielding design requirements for 265 MW(t) operation of, 24:13508
- systems and components for, ZRA 1 computer program for computing reliability of, 23:43057

RHENATES
- see also Ammonium Rhenates
- see also Bromorhenates
- see also Chlorohenates
- see also Lanthanum Rhenates
- see also Neodymium Rhenates
- see also Perrhenates
- see also Potassium Rhenates
- see also Sodium Rhenates
- see also Vanadium Rhenates
- see also Ytterbium Rhenates
- analysis for technetium by inverse polarography, 22:40039
- distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
- oxygen-18 exchange between, and water, effects of acidity and temperature on, 21:23873

Rhenides
- see Rhenium Alloys and Systems

RHENIUM
- absorption of nitrogen on polycrystalline, (E), 21:42180
- abundance in Fraunhofer spectrum of Sun, (E), 24:42447
- alpha fission at 30 to 80 MeV, excitation functions for, (E), 21:13878
- alpha fission at 30 to 80 MeV, excitation functions for, (E), 21:42667
- analysis for carbon, 22:30436(R) (UCRL-50006-68-1)
- analysis for fluoride, 22:30436(R) (UCRL-50006-68-1)
- analysis for fluoride, methods for direct, 21:34215(R) (UCRL-50006-67-1)
- analysis for fluorides, 23:7445 (UCRL-50522)
- analysis for impurities by Auger electron spectroscopy, 24:22583
- analysis for impurities, method for spectrographic, 21:30354 (UCID-15153)
- analysis for impurities, thermochemical separation and spectrographic, 22:30436(R) (UCRL-50006-68-1)
- analysis for molybdenum by extraction photometry using 5,7-dibromo-8-quinolinol, 25:18353
- analysis for rhenium by mass spectrometry, 24:14
- analysis for trace impurities following conversion to oxide, spectrographic, 21:34215(R) (UCRL-50006-67-1)
- analysis of surfaces of, using helium field-ion microscopy, 22:10995
- analysis of thin films of, for impurities, method for, 23:19640
- analysis of, for fluoride traces, method for, 21:15835(R) (UCID-15066)
- analysis of, for fluoride traces, methods for, 21:15836(R) (UCID-15079)
- analysis of, for impurities, spectrographic, 21:15836(R) (UCID-15079)
- analysis of, for impurities, spectrographic, 21:15835(R) (UCID-15066)
- analysis of, for metallic impurities, spectrographic, 21:12(R) (UCID-15014)
- atomic weight of, based on carbon-12 = 12, 22:42698
- Auger electron spectra, 24:25950
- book: Creep-Rupture Data for the Refractory Metals to High Temperatures, 25:29868
- book: Fundamentals of Metallurgy, Vol. 4, Rare Metals, 22:8763
- book: Guide to Uncommon Metals, 21:34854
- book: High Temperature Materials, 22:31360
- book: High-Temperature Materials, 25:42853
- book: Uncommon Metals, 22:10981
- carbon monoxide desorption from surface of, field emission study of, 25:16450
- carbon monoxide surface properties on surface of, field emission study of, 25:16450
- carbon solubility in, at 1700 to 2400 deg C, 21:4966
- casting by levitation melting using magnetic field, 25:55424
- chemical state of recoil, in proton-irradiated inorganic iridium compounds, 25:2300
- chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
- chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
- chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
- chromatographic behavior in hydrochloric acid—thiocyanate mixture on Amberlite LA-2, 25:18337
- chromatographic behavior of, reversed-phase extraction, 25:37478
- compatibility of capsules of, with curium oxide and plutonium oxide at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
- compatibility of fuel capsules of, with cobalt oxides under welding conditions, 25:18591(R) (DP-1254)
- compatibility of fuel capsules of, with curium oxide and plutonium oxide fuels at 1800 to 2000°C, 25:51717(R) (MDC G-3124)
- compatibility of fuel capsules of, with curium-244 oxide at 1250 to 1850°C, 25:8427(R) (ORNL-4639)
- compatibility wih plutonium-238 dioxide, effects of stoichiometry on, 24:44787(R) (MDC G-1665)
- compatibility with 304L stainless steel, tantalum, molybdenum—rhenium, tungsten—rhenium, and platinum at 1100°C, 21:36782 (BNWL-398)
- compatibility with 50 mole percent mixture of uranium carbide and zirconium carbide, 21:15796
- compatibility with cobalt aluminate at high temperatures, 25:18591(R) (DP-1254)
- compatibility with cobalt magnesium oxide at high temperature, 25:18591(R) (DP-1254)
- compatibility with cobalt oxide at high temperatures, 25:18591(R) (DP-1254)
- compatibility with cobalt oxides at 1500 to 1800°C, 25:46592(R) (DP-1272)
- compatibility with cobalt oxides at 1500°C, 24:9597(R) (DP-1216)
- compatibility with curium-244 oxide in pressed and sintered cermet compacts, 24:48887 (DP-MS-70-10)
- compatibility with hafnium carbide at 2500°C, 22:49825
- compatibility with Hastelloy C and Hastelloy X at 1100°C, 21:36782 (BNWL-398)
- compatibility with molten chromium oxide, 25:750
- compatibility with molten cobalt, 23:29091(R) (DP-1196-1)
- compatibility with molybdenum at 2500°F, 23:22459 (AI-AEC-12744, pp 93-116)
- compatibility with niobium carbide at 2500°C, 22:49825
- compatibility with plutonium dioxide as fuel matrix at 1500 to 2500°C, 24:46766(R) (BMI-1849)
- compatibility with plutonium dioxide at 1000 to 2500°C, data tabulations on, 25:6854 (MLM-1706)
- compatibility with plutonium dioxide at 1800 to 2000°C, effects of impurities on, 24:46431(R) (MDC G-1700)
- compatibility with plutonium dioxide at 1800°C, 24:36505(R) (MDC G-1689)
- compatibility with plutonium dioxide at high temperatures, 25:24538 (MDC G-2034)
- compatibility with plutonium oxide at 1800 to 2000°C, 25:22135(R) (MDC G-2026)
- compatibility with plutonium oxides at 1800 to 2000°C, effects of oxygen on, 24:44655(R) (MDC G-1675)
- compatibility with plutonium-238 dioxide at 2000°C, 24:44780(R) (DAC-63372)

compatibility with promethium oxide and samarium oxide at 1100°C, 24:36859 (BNWL-1389)
compatibility with substoichiometric plutonium dioxide at 2000°C, 24:46431(R) (MDC G-1700)
compatibility with tantalum carbide at 2500°C, 22:49825
compatibility with zirconium carbide at 2500°C, 22:49825
complexes of, bonding and structure in, 22:4138
complexes of, nuclear quadrupole resonance studies on electron distribution in, 22:45029 (UCRL-18043, pp 7-105)
complexes with bromine, chlorine, and iodine, preparation and properties of, 21:34260
complexes with β-ketoenols, preparation and properties of, review of, 22:2061
complexes with cyanides, preparation of, 22:12203(R) (USC-113-P-4-9)
complexes with thiourea in hydrochloric and nitric acid solutions, chemistry of, 22:50954
complexes, spectra of, NQR, 23:40616 (UCRL-18735, pp 5-80)
compounds of, mixed valence chemistry of, review on, 24:7440
compounds of, vibrational studies of dinuclear, 24:53051 (MIT-1965-81)
compounds with 2,2'-dipydryl and 1,10-phenanthroline, preparation and properties of, 22:45032
conductivity at 80 to 1900°K, electric and thermal, 25:55523
content in copper-bearing marls, 21:30552
content in Pacific Ocean brown kelp, 23:26383
content in Pacific Ocean surface waters, 23:26383
content in rhenium—tungsten alloys, identification using field-ion microscopes, 22:668
content in thermal neutron irradiated tungsten, 22:19578 (BNWL-455, Paper 10.1-40)
content in Zechstein deposits of Leszczyna trough, Poland, 21:16024
content of fish and fish livers in Lake Erie, Lake Michigan, and Lake Superior, 25:21644
content ratio to osmium-187 in copper ores, geologic age estimations from measurements of, 24:29384
corrosion by acids and alklies, data tabulation on, 23:10164
corrosion by aqueous acids, alkali, and salt solutions, effects of temperature on, 23:8123
corrosion by cesium and lithium at 1370 to 1870°C, 23:48339
corrosion by zinc and zinc alloys, 24:258 (ANL-7575, pp 19-46)
corrosion of containers of, by selenium and tellurium at high temperatures, 24:29912 (MLM-1720)
corrosion of, review on, 24:17208
cosmochemistry of, in solar system, (T), 23:41846
creep activation energy of, 23:24893
creep and stress-rupture at 1600, 2200, and 2600°C, 22:612(R) (GEMP-69)
creep behavior of electron-beam melted, 25:55432 (N-71-23114)
creep of powder metallurgy, activation energy for, 23:24894
creep of powder metallurgy, at 2200 to 4000°F at stresses of 4 to 20 kip/m^2, 23:24894
creep of powder-metallurgy sheet, at 1600 and 2200°C, 23:24847 (GEMP-1008, pp 13-49)
creep properties of electron beam-melted and powder metallurgy, at 2200 to 4200°F, 25:55491
creep rupture at high temperatures, 23:6662 (GEMP-1004, pp 14-88)
creep—rupture at high temperatures, data tabulations on, 23:36068 (GEMP-685)
creep-rupture in argon or hydrogen at 1600 to 2800°C, 23:48425
creep-rupture properties of powder metallurgy sheets at 1600, 2200, and 2600°C, 21:34865(R) (GEMP-67)
creep-rupture properties of, at 1600 and 2200°C, 21:28730(R) (GEMP-475-A)
crystal lattice parameters of, effects of pressure and temperature on, 24:39664
crystal structure of monocrystalline, LEED study of, 24:14799
crystal structure of sputtered films of, 22:8777
crystal structure of, x-ray diffraction measurements on, 21:26869(R) (HW-83398)
crystal surface properties of vacuum heated cleaned, LEED and Auger electron spectroscopy methods for determination of, 24:17305
crystallization of forged, 24:14739
Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
deformation at 1400 to 1900°C, mechanisms of, 23:24814 (UCRL-50603)
deformation at 1500 to 2300°C and 1500 to 10,000 psi, 23:24893
densification of homogeneous phases of, by hot pressing, activation energy for, 25:32698
density of powder compacts of, nomograph for determining, 21:26807
deposition at 600 to 900°C, thermochemical, 21:14801 (ORNL-P-2745)
deposition of, effects of pH on electro-, 23:36042
deposition on copper substrates by hydrogen reduction of rhenium hexafluoride, 21:18224 (BM-RI-6915)
deposition on magnesium microspheres by reduction of rhenium hexafluoride vapor to form microballoons, 23:41560 (BNWL-1100)
deposition on molybdenum, 21:14808
deposition on molybdenum and niobium, method for electrolytic, 23:48377
deposition on single crystals of copper, cracking and strength of films from, 22:17116(R) (ORO-3401-3)
determination as impurity in gallium arsenide, activation, 22:1969
determination as impurity in uranium oxide (U_3O_8), spectrochemical method for, 22:50937
determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
determination by activation using ampoule neutron sources, 23:2196
determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
determination by atomic absorption spectroscopy using acetylene—nitrous oxide flame, 22:37662
determination by differential spectrophotometry, 24:38732
determination by emission of positive secondary ions from ion bombardment, mass-spectrometric, 21:27908
determination by emission spectroscopy using acetylene—nitrous oxide flame, 22:37663
determination by mass spectrometry using negative surface ionization method, 22:6265
determination by neutron activation and scintillation counting of short-lived isotopes, 25:48(T) (CSIRO-Trans-10089)
determination by neutron activation method, substoichiometric, 22:27618
determination by neutron activation methods, 22:4031
determination by neutron activation methods, 24:2158
determination by neutron activation, sensitivity of, 23:35037
determination by photon activation, sensitivity for, 23:15826
determination following separation from other metal ions by thin-layer chromatography using quercetin, colorimetric, 25:41743
determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in Australian molybdenites and other sulfide minerals by neutron activation, chemical separation, and beta counting, 23:31322
determination in chondritic meteorites and rocks by thermal neutron activation and radiochemical separation, 24:31265
determination in chondritic meteorites, activation, 22:15
determination in coal ashes by neutron activation, 23:24113 (CONF-670649-1)
determination in copper and molybdenum concentrates, direct spectroscopic, 25:28945
determination in copper ores and molybdenites, activation, 22:1996
determination in copper ores by neutron activation methods, 23:21
determination in cyanide complexes, 22:12203(R) (USC-113-P-4-9)
determination in drugs by neutron activation, 22:12230
determination in electrolytic zinc sulfate solutions by neutron activation methods, 22:25289
determination in geochemical samples by neutron activation and radiochemical separation, 24:152
determination in high-purity germanium by neutron activation and radiochemical separations, 24:103
determination in high-purity plutonium by anion exchange separation and graphite-spark excitation, 21:25771 (LA-DC-8507)
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in lead by photocolorimetry, 24:4215
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in lunar dust from Apollo 11 by neutron activation and radiochemical separation, 24:20739
determination in meteorites by chemical and neutron activation methods, 22:10199
determination in meteorites by neutron activation and γ spectrometry, 23:31310
determination in meteorites by neutron activation and radiochemical separation, 24:139
determination in minerals by spectroscopy, 24:41198
determination in molybdenite ores, use of lithium-drifted germanium detectors in neutron activation, 21:35864
determination in molybdenites by neutron activation methods, 22:14440
determination in molybdenum and tungsten alloys, chromatographic, 25:28953
determination in molybdenum by complexing with ferricyanide ions, spectrophotometric, 22:50905
determination in molybdenum by neutron activation, 22:37680
determination in molybdenum by neutron activation methods, 22:21038
determination in molybdenum—rhenium—tungsten alloys by x-ray fluorescence, 23:28673(R) (UCRL-50006-69)
determination in molybdenum—rhenium—tungsten alloys, 22:30436(R) (UCRL-50006-68-1)
determination in neutron-irradiated graphite by γ spectrometry, 25:12954
determination in nuclear materials, 21:21870
determination in organic layer after extraction from copper, molybdenum, nickel, and tungsten using tetraphenylarsonium chloride, photometric, 22:47087
determination in plutonium—rhenium alloys, spectrophotometric, 21:35847 (LA-3711)
determination in presence of molybdenum and other ions by internal electrolysis, 24:4
determination in presence of molybdenum and tungsten, spectrophotometric, 23:40549
determination in presence of molybdenum, tungsten, and vanadium by thin layer chromatography in butyl and pentyl alcohol solutions, 24:13761
determination in presence of molybdenum, tungsten, and vanadium by thin layer chromatography in mixed alcohol solutions, 24:13759
determination in rhenium—tungsten alloys by thin-layer chromatography, 23:6080
determination in rhenium—tungsten alloys, spectrophotometric, 22:1972
determination in rocks in presence of molybdenum and uranium by neutron activation and radiochemical separations, 23:21665 (CONF-670649-30)
determination in seawater by ion exchange preconcentration, neutron activation, and radiochemical separation, 24:48053
determination in sedimentary rocks by neutron activation, 23:24113 (CONF-670649-1)
determination in selenium by neutron activation and radiochemical separations, 23:35050
determination in selenium by neutron activation and radiochemical separation, 24:5643
determination in trichloromethylsilane by activation—extraction method, 21:35854
determination in valve grids of platinum and molybdenum, tantalum, or tungsten, activation, 23:83
determination in water by neutron activation and radiochemical separation, 25:37320 (RT/CHI-(70)33)
determination in zone-refined tungsten, mass spectrographic, 22:25316
determination of extractable complexes of, with amines by paper chromatography, 22:14569
determination of ratio of, to chlorine in complex compounds by neutron activation, 22:50916
determination of trace amounts of, by neutron activation methods, substoichiometric separation in, 21:10276
determination of trace amounts of, by thiocyanate—stannous chloride method, effects of impurities on, 25:2102
determination of trace amounts of, evaluation of methods for, 23:47382
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in meteorites by neutron activation and γ spectrometry, 25:41773
determination of trace amounts of, in molybdenites by neutron activation and γ spectrometry, 24:25023
determination of trace amounts of, in molybdenum, review on, 25:54399
determination of trace amounts of, in molybdenum, review on, 25:10459
determination of trace amounts of, in presence of other elements, direct-current arc spectrochemical method for, 24:26977
determination of trace amounts of, in silicate rocks, polarographic method for, 24:41184
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of tracers of, in chamotte bricks and washed ores by neutron activation and γ spectrometry, 25:48479
determination of various oxidation states of, methods for, 23:13645
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in alloys and metals by gas chromatography, 21:2947
determination of, in meteorites by neutron activation methods, 21:4448
determination of, in molybdenite by neutron activation techniques, 21:10274
determination of, in presence of copper, molybdenum, and tungsten, spectrophotometric, 21:1245 (LA-3550)
determination of, review on various methods for, 25:23501 (MLM-1801)
determination of, solvent extraction methods in, 25:54401
determination of, solvent extraction process for use in, 25:34525
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination using 2,3-butanedione oxime in presence of stannous chloride, spectrophotometric, 22:16463
determination using neutron-neutron method with resonance neutrons, 22:30447
determination using thiosalicylic acid, effects of various ions on spectrophotometric, 24:25000
deuterium exchange with methane on surface of, correlation of catalytic activity and chemisorbed radicals in, 23:13707
deuteron reactions (d,pγ) at 12 MeV, p—γ coincidence spectra for, (E), 23:34776 (ANL-7282, pp 398-405)
diffusion from fuel materials through tungsten cladding, 22:7008
diffusion in quartz tube with temperature gradient, 24:2285
diffusion in tungsten and its alloys at 1900 to 2400°C, 21:34903
diffusion in tungsten at 1400 to 2000°C, 22:17135
diffusion of carbon at 1500 and 2300°C in, 21:34865(R) (GEMP-67)
diffusion of carbon at 1500 to 2000°K in, 23:1001
diffusion of carbon in, at 1500 and 2300°C, 21:13141(R) (GEMP-63)
diffusion of carbon in, at 1500 and 2300°C, 21:28730(R) (GEMP-475-A)
diffusion of carbon in, to 4000°C, 25:37964
diffusion of rare gases in, at high temperatures, 21:10215 (GEMP-61, pp 79-92)
distribution coefficients for, in hydrochloric acid solution on Amberlite CG4B, 22:40192
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution in molybdenite, electron microprobe studies on, 21:41575 (IS-1600, Paper 5)
distribution on thin-layer DEAE-cellulose in organic solvent—thiocyanic acid mixture, chromatographic, 25:6417
ductility at 1200°C, 23:14333
ductility of sheet, effects of stress at 1600 to 2800°C on, 23:24847 (GEMP-1008, pp 13-49)
effects as additive on tungsten corrosion at high temperatures, 22:43537
effects of 5 percent additions of, on low-temperature thermal capacity of zirconium, 23:8161 (ORNL-4370, pp 21-5)
effects of additions of, on fabrication and properties of tantalum alloys, 23:18228

effects of additions of, on high- and low-temperature properties of molybdenum-base—tungsten alloys, 23:48418
effects of additions of, on stability of uranium dioxide fuels, 25:29932(P)
effects of, on creep and tensile properties of drawn tungsten wire, 21:6815
effects of, on electric conductivity of niobium—tantalum alloy, 21:4948
effects of, on oxidation of molybdenum disilicide above 600°C, 21:13268
effects of, on shear properties of tungsten, 21:11209 (NP-16627)
effects of, on spectrophotometric determination of microgram amounts of technetium in hydrochloric acid, 21:10282
effects of, on tensile properties of tantalum alloy welds at high temperature, 21:9121
effects on carbon diffusion in carbon—tungsten alloy, 25:4746 (AD-710275)
effects on compatibility of metals with uranium monocarbide, 21:39693
effects on creep rupture of irradiated Hastelloy N, 24:14808(R) (BNWL-1020)
effects on defect recovery in fast neutron-irradiated tungsten, 24:21402
effects on determination of ruthenium by catalytic periodate oxidation of tris(1,10-phenanthroline)iron, 23:40545
effects on determination of selenium by neutron activation, 24:48058
effects on determination of tantalum and tungsten, 23:12 (LA-4007)
effects on ductility and strength of rhenium—tungsten alloys, 23:48419
effects on ductility of sintered molybdenum—rhenium—tungsten alloy, 23:43963 (LA-4173)
effects on elasticity and strength of titanium at -196 to 800°C, 21:45918
effects on elastoresistance and galvomagnetic effects in nickel-base iron alloys, 23:14329
effects on electric properties of lanthanum boride, temperature dependence of, 25:59183
effects on electric properties of lanthanum hexaboride, 25:59182
effects on equilibration of deuterium with hydrogen, catalytic, 24:22643
effects on formation of ^{14}N^{15}N in nitrogen-14 exchange with nitrogen-15, catalytic, 24:11518
effects on lattice solid solubility of oxygen in tungsten, 23:8125
effects on mechanical properties of arc-melted carbon—hafnium—rhenium—tungsten alloy, 23:48387 (N-69-31977)
effects on mechanical properties of niobium—tantalum alloys, 21:34907
effects on mechanical properties of tungsten, 22:4794
effects on melting point and transformation temperature of praseodymium, 24:17308 (IS-T-328)
effects on properties and sintering of tungsten at 1000 to 2000°C, 25:55453
effects on properties of niobium alloys, 22:23706 (BM-RI-7116)
effects on reactions of benzene with hydrogen, catalytic, 23:11505
effects on reactivity in BN-350 type critical assembly, analysis of, 22:18570
effects on sintering density of titanium boride and zirconium boride, 24:4830
effects on stress relaxation of monocrystalline bcc molybdenum, tantalum, and tantalum alloys at 77 to 373°K, 24:14733
effects on tensile properties of niobium, 21:45902
effects on thermal cycling stability of molybdenum and tungsten, 25:58247
effects on uv spectrophotometric determination of gallium in aqueous solutions, 25:2100
elastic moduli of single-crystal, effects of temperature on, 21:20493
elastic properties of hexagonal, calculation of x-ray, 25:16476
electric conductivity at 0.4 to 70°K, interelectron collision contribution to, (E), 25:33450
electric conductivity at 1100 to 2500°K, 25:40024
electric conductivity of liquid, review of data on, 23:12316
electric conductivity of single-crystal, at 2 to 20°K, 22:38561
electric field gradient in hcp, calculations, 25:36351
electron energy-loss spectrum in, (E), 23:6886
electron work function distributions for, 21:43866
electron—phonon interaction in high-purity superconducting, ultrasonic study of, (E), 25:1102
electron—phonon interaction in normal and superconducting states of high-purity, 25:56097
electron—phonon interaction in ultrasonic attenuation of, two-band model, 24:45343
emissivity at 1100 to 2500°K, 25:40024
emissivity of monocrystalline and polycrystalline, at 1200 to 2800°K, total hemispherical, 25:13666
emittance at 1200 to 2800°K, total hemispherical, 25:8878
energy-level transitions in, ratio of probability of $K\beta_3$ to $K\beta_1$, (E), 24:28081
enthalpy, 22:28780 (TID-24314(Pt.1))
enthalpy and thermal capacity of, equations for calulating high-temperature, 24:34883
enthalpy at high temperatures, evaluation of data on, 23:38956 (GEMP-696)
enthalpy of solution in liquid plutonium, 25:11386
enthalpy of solution in liquid plutonium, 23:38977
enthalpy of solution in liquid plutonium at 700 to 1000°C, 25:16440 (LA-4559)
etching and polishing of, ac electrolytic method for, 24:25668
fabrication by reduction of gaseous hexafluorides of, using hydrogen, 22:10976
fabrication of pure sheet, by annealing and cold working, 22:28757(R) (UCRL-13341)
fabrication of rods and sheets of, by cold-working and annealing, 24:971
fabrication of thermocouple wire of, process development for, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
fabrication of tubes of, method for, 21:26780(P)
fabrication of tubular thermocouple sheaths of, 23:24853 (GEMP-1008, pp 253-73)
field ion microscopic studies of, atom-probe, 25:697
friction and wear of, sliding against iron ring under vacuum, 25:11413
fusion of cerium or lanthanum in crucibles of, reactions in, 23:38947
gamma reactions (γ,f) below 260 MeV, angular distributions and cross sections for, (E), 21:17361
hardness after contact exposure to plutonium dioxide at 1800 to 2000°C, 25:24614(R) (MDC G-2033)
hardness of irradiated and unirradiated, hot, 25:27236
hardness of pure, effects of annealing and cold working on Rockwell, 22:28757(R) (UCRL-13341)
helium pressure in sealed fuel capsules of, effects of temperature on autoregulation of, 24:32418
hyperfine structure of spectrum of, 21:3664
interactions with tantalum silicide coating, 25:11519
ionization of lithium salts on, at 1200 to 2600°K, effects of anionic constituent on surface, 24:16482 (ANL-7594)
ionization of, self-surface, 21:31015
isotopic analysis of natural, by thermal ionization source technique, 22:12231
magnetic susceptibility of single crystals of, anisotropy of temperature dependence of, 23:14919
mechanical and physical properties of, 21:43616
mechanical properties and structure of cold-worked and annealed, effects of molybdenum and tungsten on, 24:971
mechanical properties of zone-refined, 23:8146
metallurgical properties and potentialities of, review, 21:9180
metallurgical properties of, reveiw on, 24:17276
metallurgy studies on, 21:28731(R) (IS-RD-9)
microstructure, 21:28799(R) (HW-79345)
microstructure and properties of, effects of impurity-level iron, molybdenum, and tungsten on, 23:22561
microstructure and properties of, effects of impurity-level oxygen on, 23:22561
morphology of dispersion in porous alumina, magnetic susceptibility study below superconducting transition, 24:32929
neutron absorption resonance integral, (E), 22:3689(R) (GA-7820)
neutron absorption resonance integrals for, (E), 21:38309
neutron capture at 0.001 to 1 MeV, cross sections for, (E), 25:15121
neutron capture at 1 to 700 keV, average cross section for, (E), 23:28304 (WASH-1124)
neutron capture at 10 to 150 keV, cross section for, (E), 22:35346
neutron capture at 10 to 150 keV, cross section for, (E), 22:37340(R) (EANDC(E)-89(U))
neutron capture at 10 to 150 keV, cross sections and p- and d-wave strength functions for, (E/T), 23:44876
neutron capture by, cross-section evaluation for use as standard, 25:53735 (CONF-701002-, pp 285-312)
neutron capture cross section at 10 to 150 keV, (E), 22:3687 (EURFNR-404)
neutron capture cross sections at 10 to 150 keV, (E), 21:17353 (KFK-455)
neutron capture cross sections at 10 to 150 keV, (E), 21:35437(R) (EANDC(E)-76(U))
neutron capture resonance integrals for, measurement using cadmium ratio method, (E), 21:34011
neutron cross sections for, 21:30090 (ANL-7007)
neutron differential elastic and inelastic scattering cross sections for, angular distributions for fast, (E), 22:20578 (WASH-1079)
neutron differential elastic and inelastic scattering cross sections at 0.3 to 1.5 MeV, angular distributions for, (E/T), 22:5810 (ANL-7363)
neutron elastic and inelastic scattering at 0.3 to 1.5 MeV, angular distributions for, (E), 22:27109
neutron inelastic scattering at 0.3 to 1.5 MeV, excitation cross section for, (E), 22:18194
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron resonance parameters for, (E), 22:20578 (WASH-1079)
neutron strength functions for, p- and d-wave, (E), 22:37340(R) (EANDC(E)-89(U))
neutron total cross section at 0.5 to 1.5 MeV, (E), 22:5810 (ANL-7363)
neutron total cross section at 30 to 650 keV, analysis for strength functions, (E/T), 22:30015
neutron total cross sections at 30 to 650 keV, optical-model parameters from, (E/T), 21:19290
neutron total cross sections for, measurement of fast, 22:32959 (ANL-7310, pp 1-30)
nuclear acoustic resonance in single crystal of, Knight shift and zero-field splitting determined by, (E), 24:45375
nuclear quadrupole coupling and electric field gradient at nucleus of, from thermal capacity measurements, 25:40822
nuclear quadrupole coupling in pure single crystals of, from thermal capacity measurements at low temperature in magnetic fields, 24:1489
optical absorption coefficient at 30 to 600 eV, 24:3468
optical constants at 537 to 5770 A, measurement by reflectance vs angle of incidence method, 22:13556
oxidation at 1400 to 2500°K under low pressure, rates of surface, 23:32014(T) (ORNL-tr-2153)
oxidation at 800 to 1400°C, mechanism of, 21:26800 (NP-16704)
oxidation at high temperatures, thermochemical factors affecting, 24:19388
oxidation at low pressures between 1400 and 2500°K, (E), 22:28740
oxidation by atomic and diatomic oxygen at high temperatures, kinetics of, 23:12279
oxidation by oxygen at 1 to 10 torr and at 800 to 1400°C, 22:12977
oxidation in air, effects of humidity variations at 20°C on, 22:49686
oxidation of, analytical methods for measurements of electrochemical, 22:28795
oxidation stability of, 21:7856(R) (ANL-7255)
oxygen sticking probability on filaments of, at 298 and 1000°K, 25:16449
performance of capsules of, for determining thermal gradient effects on composition of hypostoichiometric uranium dioxide, 23:34116
phase transformations in, relation of temperature dependence of elastic moduli to, 21:11208 (ANL-7155, pp 167-289)
photofission at 300 to 1600 MeV, cross sections and fragment yields for, (E/T), 22:5856
photofission cross section at 0.1 to 1.2 GeV, (E), 22:22586 (NP-17325)
photon reactions with, yields of x radiation from L_2 and L_3 subshells in, (E), 23:8476
physical properties of, ultrasonic method for determination of high temperature, 23:33355
plastic deformation of monocrystalline, effects on structure, 24:2940 (ORNL-4470, pp 7-11)
plastic deformation of, effects of work-hardening on, 23:8213 (ORNL-4370, pp 9-12)
preparation for transmission electron microscopy, by controlled high-voltage jet-polishing, 23:3075
preparation in compacts with refractory metal oxides, method for, 21:3541(P)
preparation of coated thermionic emitters of, method for, 25:4750 (TEE-4125-2)
preparation of elongated spheroid specimens of, by electric discharge machining, 25:49385
preparation of single crystals of, by electron-beam zone melting, 23:8144
preparation of thin-foil targets of, 21:6780
production and purification of, review of methods for, 23:8140
production by neutron-irradiation of tungsten, 21:28743(P)
production by thermal-neutron reactions with tungsten, 21:28794(R) (BNWL-CC-355)
production of ductile, by chemical vapor deposition, 22:6966
production of high-purity monocrystalline and polycrystalline, 25:626 (AD-480455)
properties and uses of, survey, 22:26023
properties and uses, review of, 23:27093
properties as fuel element claddings, mass spectrometric study of, 21:23589(R) (ANL-7308)
properties evaluation for thermionic cell electrodes, (E), 23:16689(R) (N-68-31488)
properties for use as cobalt-60 heat source capsule material, heating tests on, 24:29441(R) (DP-1226)
properties for use as diffusion barrier in high heat flux graphite heaters, 23:47668 (AI-AEC-12813)
properties for use as encapsulating material for californium-252 sources for neutron capture gamma-ray spectroscopy, 25:4772
properties for use as matrix in cermet plutonium dioxide fuels, high-temperature, 24:46765(R) (BMI-1831)
properties for use in dilatometers, 24:33825 (BMBW-FBK-70-1, pp 621-30)
properties for use in modern technology, 22:2563
properties for use in reactor components, review of, 25:2647
properties for use in vacuum systems, 22:16828
properties of films, superconducting and electrical, 24:40005
properties of single crystal, 23:48361
properties of, chemical and physical, 24:46732
properties of, table on, 23:18226
properties of, temperature dependence of Hall effect, paramagnetic susceptibility, and electric conductivity, 23:8692
proton fission at 10 MeV to 29 GeV, cross section for, 25:31326
proton reactions at 10 MeV, production of short-lived isomer by, (E), 22:24874
proton reactions at 11.2 MeV, production of short-lived isomers in, 23:45012
proton reactions at 50 to 53, production of isomeric osmium isotopes in, (E), 21:15589
purification by electron-beam zone melting, 23:8144
purification of, metal ceramic methods for, 24:46732
radiation damage recovery processes in, fast-neutron, 21:28793(R) (BNWL-94)
radiation effects at 550°C on microstructure of, fast neutron, 23:22595 (BNWL-790, pp 12.1-66)
radiation effects on, 21:26867(R) (HW-76635)
radiation effects on crystal structure of, annealing of, 21:31054(R) (BNWL-CC-1053)
radiation effects on crystal structure of, in-pile, 22:31414 (BNWL-532, pp 12.1-88)
radiation effects on crystal structure of, neutron, 21:18295 (BNWL-361)
radiation effects on dimensional stability of monocrystals of, fast neutron, 22:28850
radiation effects on electric conductivity of pure, at 5°K, annealing recovery of alpha-particle, 25:59142
radiation effects on helium-ion trapping in, argon-ion, 24:40166
radiation effects on high-temperature properties of, 21:28799(R) (HW-79345)
radiation effects on hot microhardness of, in-pile, 24:8159 (GEMP-716)
radiation effects on mechanical properties of mono- and polycrystals of, neutron, 25:58342

radiation effects on microstructure of, fast neutron, 25:22119(R) (WHAN-FR-40-1)
radiation effects on properties and structure of, neutron, 21:34244(R) (BNWL-228)
radiation effects on structure of, fast-neutron, 21:28794(R) (BNWL-CC-355)
radiation effects on volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
radiation effects on wires of, thermal neutron, 21:34553(R) (N-67-19914)
radiation effects on, dose-dependent recovery peak shift in annealing of, 25:33402(R) (ORNL-4669)
radiation effects on, review on recovery from in-pile, 24:46758
radioinduced defect clusters in, stereo-electron microscopy study of neutron, 22:34790
radioinduced defects in, at absolute melting temperature, electron microscopic study of fast neutron, 25:58302
radioinduced defects in, resistivity study of annealing recovery of neutron, 24:4823
radioinduced reactions with urania at high temperatures, 21:1955 (AECL-2601)
radioinduced void formation in, effects of temperature on neutron, 25:47141 (BNWL-SA-3921)
radioinduced void formation in, relations of temperature with neutron, 25:49483 (BNWL-SA-3920)
radioinduced voids in hcp, at 1050 and 1150°C, fast neutron, 24:32483
rare earth diffusion out of, 22:29795
reaction with cermet fuels in thermionic cells, 21:10219 (RFP-658, pp 124-36)
reactions of crystal surface of, with carbon monoxide and oxygen, effects on LEED spectra, 24:17323
reactions of recoil atoms of, in proton-irradiated potassium chlororhenate or sodium perrhenate, effects of thermal annealing on, 25:57497
reactions of recoil, in proton-irradiated sodium chloroiridates, effects of thermal annealing on, 24:20789 (JINR-E6-4916)
reactions with boron nitride to form rhenium boride, kinetics of, 23:34069
reactions with cobalt in air at high temperatures, 25:18591(R) (DP-1254)
reactions with Hastelloy C and X at 700 to 1100°C, 21:32858 (BNWL-421)
reactions with Hastelloy X, 304L stainless steel, and tantalum at 1100°C, 21:32858 (BNWL-421)
reactions with lithium hydrides under hydrogen at 800°C, 23:24182
reactions with magnesium oxide and zinc oxide, mass spectrometric studies on thermodynamics of, 24:43996 (UCRL-19645)
reactions with molten lithium perchlorate, Raman spectral studies on compounds produced by, 25:54538
reactions with oxygen, thermal-flare studies of surface, 25:29772
reactions with platinum and rhenium couples with molybdenum and tungsten at 1100°C, 21:32858 (BNWL-421)
reactions with rare-earth metals, 23:30068
reactions with steam at 850 to 1700°C, 21:20469
reactions with sulfonated polyethylene for use as neutron absorber, 23:26241(P)
reactions with tellurium at high temperatures, 24:29912 (MLM-1720)
reactions with uranium carbide at high temperatures, 21:9237 (GEMP-61, pp 177-84)
reactions with uranium dioxide at 1800°C, oxidation, 21:45068 (ANL-7325, pp 99-135)
reactions with uranium monocarbide at 2000°C, compatibility tests of, 21:28730(R) (GEMP-475-A)
reactivity effects in ZPR-9 Assembly No. 8, spatial distribution of, 21:44930 (ANL-7208)
reactivity effects in ZPR-9 Assembly No. 9, spatial distribution of, 21:44930 (ANL-7208)
reactivity measurements in large uranium carbide fast ZPR-6, 22:32734 (ANL-7310, pp 137-248)
recovery from copper shists, 23:22499
refining of, methods for flue gases and dusts from molybdenite roasting, 23:22499
separation by precipitation with metal hydroxides, 22:23104
separation by solvent extraction using dialkylmethylbenzylammonium salts, 25:2328
separation by thin-layer chromatography using slightly basic ion exchanger, effects of organic solvents on, 24:16661
separation from acid solutions as perrhenate by solvent extraction using N-benzoyl-N-phenylhydroxylamine, 25:32065
separation from alkali solutions by ion exchange, 22:27566
separation from aqueous sodium hydroxide solutions by anion exchange, distribution ratio for, 24:19057
separation from aqueous solutions by solvent extraction using 8-quinolinethiol, 8-quinolinol, 2-methyl-8-quinolinol, or 5,7-dibromo-8-quinolinol, 23:43393
separation from aqueous solutions by solvent extraction using benzoylphenylhydroxylamine, 25:46545
separation from aqueous solutions by thin-layer chromatography using liquid anion exchangers, 25:29186
separation from chromium, molybdenum, osmium, selenium, tellurium, tungsten, and vanadium by solvent extraction using 2,4-pentanedione, 23:17548
separation from cobalt, iron, manganese, tantalum, and zinc by extraction chromatography using Aliquat-336—hydrochloric acid, 23:38031
separation from copper, molybdenum, nickel, and tungsten by solvent extraction using tetraphenylarsonium chloride, 22:47087
separation from hydrochloric acid, nitric acid, and sulfuric acid solutions by solvent extraction using N-methyldioctylamine and trioctylamine, 24:20857
separation from hydrochloric acid—tartaric acid solutions by solvent extraction using amyl acetate, amyl alcohol, methyl isobutyl ketone, and TBP, chromatographic, 22:4246
separation from hydrochloric, nitric, and perchloric acids by solvent extraction using bis(2-ethylhexyl) phosphate, 23:49900
separation from iron or molybdenum in hydrochloric acid solution, ion exchange, 22:40192
separation from iron, molybdenum, tungsten, and vanadium by paper chromatography, 23:15952
separation from metals by thin-layer chromatography using DEAE-cellulose in binary solvent systems, 24:22762
separation from molybdenite, development of methods for, 24:17191 (IS-2100, Sect. M)
separation from molybdenum and rhenium disulfides, electrolytic method for, 23:47621
separation from molybdenum and selenium as perrhenate on silica gel chromatographs, 25:28953
separation from molybdenum and tungsten by ion exchange on aluminum oxide, 23:40549
separation from molybdenum and tungsten by ion exchange on diethylaminoethylcellulose, 24:13758
separation from molybdenum and tungsten by solvent extraction using acetone and scrubbing using sodium hydroxide, 25:34525
separation from molybdenum and tungsten in hydrochloric acid—tartaric acid solutions, distribution-chromatographic method for, 22:4246
separation from molybdenum concentrates, 23:15941
separation from molybdenum ores by extraction from roasting dusts or hydrometallurgical treatment with nitric acid, 23:9518
separation from nitrate and sulfate solutions by solvent extraction using amines, 25:2319 (ORNL-4572, pp 181-95)
separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
separation from ores by solvent extraction, review on, 25:10656 (BM-IC-8502)
separation from other elements by solvent extraction using tertiary amines, 25:12921
separation from other metals by solvent extraction, 21:39005
separation from other metals, development of methods for, 23:35264
separation from processing solutions containing molybdenum by solvent extraction using trioctylamine, 22:37840
separation from solutions by ion exchange and solvent extraction using TBP, 23:38090
separation from sulfuric acid systems with hydrobromic acid or potassium iodide by solvent extraction using benzene, 22:16658
separation from tantalum and tungsten by precipitation with iron hydroxide, 21:24094
separation from tungsten, 23:2360
separation from tungsten and molybdenum by thin-layer chromatography, 23:6080
separation from tungsten by ion exchange, 22:47207
separation from tungsten by thin-layer chromatography on DEAE-cellulose in acetic acid—thiocyanic acid mixture, 25:6417
separation of complexes of, with amines by paper chromatography, effects of halide ion concentration on, 22:14569
separation of heptavalent, by ion exchange on Dowex I-X 8 from nitric acid—acetone and nitric acid—tetrahydrofuran, 25:37467
separation of heptavalent, by ion exchange on Dowex I-X 8 from nitric acid—acetic acid or nitric acid—methyl sulfoxide, 25:37468
separation of heptavalent, from molybdenum, vanadium, and tungsten by thin-layer chromatography, 23:26153
separation of molybdenum from, by solvent extraction using isopentyl acetate, effects of diverse ions on, 25:21140
separation of molybdenum from, by solvent extraction using substituted phosphonic acid esters, 23:387
separation of molybdenum from, by sorption on weak base resins or activated carbons, 24:41399
separation of niobium from, by chromatography, 25:37484
separation of septavalent, by ion exchange on Dowex I-X 8 from nitric acid—ethanol, nitric acid—2-propanol, or nitric acid—1,2-propanediol, 25:37466
separation of septavalent, from methanol—nitric acid solutions by ion-exchange using Dowex I-X 8, 25:37465
separation of uranium from, by thin-layer chromatography, 21:25944
separation of, from molybdenum by ion exchange, 21:3154
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, from other elements by thin-layer chromatography on silica gel impregnated with organophosphorus compounds, 21:152
siloxy compounds of, preparation and properties of, 21:45130
sintering of palladium-containing powders of, activated, 24:976
solubility in liquid plutonium at 700 to 900°C, 21:30216
solubility in tungsten, 23:1004
solubility of, in liquid plutonium at 700 to 950°C, 21:9177
solvent properties for carbon to 4000°C, 25:37964
solvent properties for solid uranium, 24:23502(R) (BMI-1830)
solvent properties for tungsten, 23:1004
solvent properties for uranium at 1900 to 2150°C, 24:25762(R) (BMI-1839)
sorption by manganese dioxide from nitric acid, 22:157
sorption from seawater by ion exchange resins Chelex-100 and Permutit S1005, 22:14442
sorptive properties for actinide ions, desorption energies and residence times, 25:30259
sorptive properties for carbon dioxide and nitrogen, sticking coefficient measurement for, 23:38960
sorptive properties for oxygen on polycrystalline, thermionic emission study, 22:46286
sorptive properties of filaments of, for nitrous oxide at 298 to 1220°K, chemical, 25:16448
spectra of electron-excited, relative intensities of L x-ray lines in, (E), 24:8324(T) (UCRL-Trans-10422)
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
spectra of, effects of adsorbed carbon monoxide, hydrogen, nitrogen, oxygen, and xenon on emission, 22:41046
sputtering by argon ions at 70 keV of single crystals of, angular distribution of, (E), 25:24842
stability in pure nitrogen at 3500°F, 22:37775 (BNL-50082, pp 40-78)
strength losses of forged, effects of annealing on, 24:14739
stress in electrodeposited thin films of, analysis of residual, 23:20501 (ORO-3401-10)
stress rupture behavior at 1600 to 2800°C, 23:985 (GEMP-636)
superconducting energy-gap behavior of single-crystal, by tunneling, 25:45392 (AD-718415)
superconducting properties of massive samples of, (E/T), 21:25094
superconducting transition temperature of slightly doped, (E), 25:30433
superconducting transition temperature of, as function of hydrostatic pressure, (E), 24:19860
superconducting transition temperature of, high-pressure effects on, (E), 23:27534
superconducting transition temperature of, pressure effects on, 22:11342
superconducting transition, isotope shift in, (E), 22:17601
superconducting tunneling into single crystals of, 25:14147 (AD-711826)
superconducting-energy-gap behavior of single-crystal, tunneling study of, (E/T), 25:56067
surface characteristics and work functions of single crystals of, 22:50068(R) (NP-17604)
surface friction of crystalline, effects of temperature on high-vacuum sliding, 21:26799 (NASA-TN-D-3955)
surface migration of atoms of, determination by field emission, 22:28824
tensile properties of bonds with alumina, magnesia, or spinels, 21:20510
tensile properties of, effects of annealing and cold working on, 22:28757(R) (UCRL-13341)
tensile properties of, review of, 25:40021 (LA-4670)
testing at 1200 to 1400°C for use in fuel capsules, 24:36503(R) (DP-1237)
thermal capacity, 22:28780 (TID-24314(Pt.1))
thermal capacity at 1100 to 2400°K, 25:40024
thermal capacity at low temperatures, quadrupole coupling in nuclear contribution to, 25:14474
thermal capacity of normal and superconducting, 24:19858
thermal capacity of normal and superconducting, between 0.15 and 4.0°K, 24:47181
thermal conductivity and emittance at 1500 to 2800°K, 24:8104
thermal conductivity and total emittance at 1500 to 3000°K, 24:34874 (BMBW-FBK-70-1, pp 451-74)
thermal conductivity at 1000 to 2600°C, 23:24847 (GEMP-1008, pp 13-49)
thermal conductivity at 1100 to 2400°K, 25:40024
thermal conductivity at 900 to 2500°C, 24:10039 (GEMP-1012(Pt.1), pp 13-70)
thermal conductivity of high purity, at 2 to 20°K, 21:18268(R) (PB-173549)
thermal conductivity of single crystal, at 2 to 20°K, 22:38561
thermal conductivity of single crystal, at 2 to 20°K, 22:38561
thermal conductivity of, below 1°K, 22:1122
thermal properties at 3500°C, review of methods for determining, 21:24774
thermionic emission by polycrystalline, effects of sorbed oxygen on, 22:46286
thermionic properties of emitters of, 21:27031(R) (N-67-12169)
thermionic work function of, effects of adsorbed carbon monoxide, hydrogen, nitrogen, oxygen, and xenon on, 22:41046
thermodynamic properties of, 21:13271
thermodynamics of surface alloying of, with boron—hafnium and boron—zirconium, 22:30575
thermoelectric stability of thermocouple elements of, 21:6336
thermophysical properties at 1500 to 3000°K, calculations of specific heat using, 21:41600
thorium desorption from surfaces of, parameters for, 25:52367
tunneling in single crystal superconducting, (E), 24:37418
ultrasonic attenuation of single crystal of, anomalous temperature dependence of electronic component of, (E/T), 25:47681
uranium desorption from surfaces of, parameters for, 25:52367
uranium ionization on surfaces of, mean ion residence times in, 21:35935
use in heat pipes with indium and silver working fluids, (E), 22:33595(R) (LA-3941)
use in high-performance thermionic converter, (E), 21:647(R) (N-66-23680)
uses at high temperatures as electrodes in thermionic converters, 23:27415
welding of cobalt-60 heat source capsules of, tungsten inert gas method for, 24:50518(R) (DP-1247)

work functions of monocrystalline and polycrystalline, (E), 21:7048 (UCRL-16662)
work functions of single-crystal faces of, effects of sodium adsorption on, (E), 22:13560
corrosion by static liquid lithium, 21:14794
Mo—Re, corrosion by bismuth, lead, and tin, 21:25935(R) (ANL-7225)
Mo—Re, creep-rupture properties of powder metallurgy sheets at 1600, 2200, and 2400°C, 21:34865(R) (GEMP-67)
PuO_2—Re, dissolution of, sealed-tube method for, 21:6801 (LA-3554)
PuO_2—Re, vapor pressure of, in vaporization study of PuO_2, 21:3055
Re—ReO, spectra of vaporized, mass, 21:30093(R) (ANL-7317)
Re—TaC, phase studies of, 21:9245
W—Re—ThO_2, bonding properties of foil layers of, effect of temperature on, 21:6147(R) (NYO-3634-3)

RHENIUM ACID CHLORIDES
preparation of $H_3Re_3Cl_{12}$, 23:106 (ORNL-4306, pp 131-73)

RHENIUM ALLOY COUPLES
Re—W/Re—W, stability of thermocouples of, at 2300°C, 24:4504 (GEMP-712)
Mo/Re—W, calibration of thermocouple for high temperatures, 21:13097 (ORNL-3970, pp 61-80)
Os—Re/Re—W, radiation effects on electric properties of, 22:612(R) (GEMP-69)
Re—Re/W—W, calibration of, 21:46963(R) (BNWL-CC-694)
Re—Re/W—W, design for 2800°C operation, 21:43552 (BNL-50068)
Re—Re/W—W, performance in urania in Halden Boiling Reactor at 1900°C, 21:44840 (HPR-74)
Re—W/Re—W, calibration of hafnium oxide-insulated, at 2300°C, 24:14893 (GEMP-1013, pp 339-78)
Re—W/Re—W, calibration of thermocouples of, method for, 21:26305
Re—W/Re—W, characteristics for temperature control to 2300°C in reactors, 21:43298 (CEA-R-3182)
Re—W/Re—W, performance at 1400 to 2600°K, 25:49380 (ORNL-TM-3416, pp 207-13)
Re—W/Re—W, performance at 2600°C, 22:40295
Re—W/Re—W, performance for DFR fuel pin center temperature measurement, 22:44811 (CONF-660521-6)
Re—W/Re—W, performance for measuring fuel cladding temperature, effects of junction position on, 24:25762(R) (BMI-1839)
Re—W/Re—W, performance in radiation capsules, 21:35774 (BMI-1808)
Re—W/Re—W, performance of beryllium oxide (BeO_2) and thorium oxide (ThO_2) insulated, to 4700°F, in SEFOR, 23:26084 (GEAP-5468)
Re—W/Re—W, performance of thermocouples of, in reactors, 22:45347(T) (AERE-Trans-1095)
Re—W/Re—W, performance testing for use at 1600 to 3000°C, 21:34541
Re—W/Re—W, radiation effects on electric conducitivity of, in-pile, 24:967 (GEMP-1012(Pt.2), pp 253-309)
Re—W/Re—W, radiation effects on thermoelectric properties of, in-reactor, 21:9139 (GEMP-61, pp 171-6)
Re—W/Re—W, stability at 1400 to 2000°C, 24:1010
Re—W/Re—W, stability tests of thermocouples at 2300°C for 1000 hours, 24:25323 (GEMP-738)
Re—W/Re—W, testing at high temperature for in-pile use, 24:16914 (CONF-690910-, pp 307-29)
Re—W/Re—W, testing for use in SEFOR, 21:19357(R) (GEAP-5301)
Re—W/Re—W, thermocouple performance at 4700°F in plutonia—urania fuel, 21:20534 (CONF-660511-, pp 7.5.1-6)
Re—W/Re—W, thermocouple performance testing for use to 4700°F in SEFOR, 21:6328 (GEAP-5166)
Re—W/Re—W, thermoelectric output at 1800 to 2000°C, 24:25761(R) (BMI-1823)
Re—W/W, calibration and performance at high temperatures, 22:612(R) (GEMP-69)
Re—W/W, calibration and testing of beryllium insulated, for use in fuel elements, 24:967 (GEMP-1012(Pt.2), pp 253-309)
Re—W/W, calibration of, description of static, 22:35596(R) (IDO-17260)
Re—W/W, compatibility with plutonium dioxide—uranium dioxide fuels at 2300°C, 24:25679 (GEMP-739)
Re—W/W, design and performance of, 22:36453 (LMEC-Memo-68-10)
Re—W/W, electric insulation for, performance at 2000°R of beryllium oxide, 22:28916 (WANL-TME-1549)
Re—W/W, electromotive force of thermocouples of, effects of temperature on, 25:13682
Re—W/W, fabrication and testing for fuel center line temperature measurement, 23:30140 (GEMP-1010, pp 260-90)
Re—W/W, performance at 1600 to 2600°, effects of insulating and sheathing materials on, 23:6666 (GEMP-1004, pp 351-60)
Re—W/W, performance at high temperatures, 22:15144 (GEMP-1002, pp 137-42)
Re—W/W, performance in fuel cells, 21:27801(R) (IDO-17228)
Re—W/W, performance of thermocouples of, in reactors, 22:45347(T) (AERE-Trans-1095)
Re—W/W, radiation effects on electric conductivity of, in-pile, 24:967 (GEMP-1012(Pt.2), pp 253-309)
Re—W/W, radiation effects on high temperature performance of, in-pile, 23:8104(R) (GEMP-1006)
Re—W/W, radiation effects on output voltage of thermocouples of, thermal neutron, (E), 21:24279
Re—W/W, stability tests of thermocouples at 2300°C for 1000 hours, 24:25323 (GEMP-738)
Re—W/W, testing refractory metal-sheathed, in helium and hydrogen at 2300 to 2400°C, 23:24853 (GEMP-1008, pp 253-73)
Re—W/W, thermocouple performance in SPERT-4 of, 22:6095(R) (IDO-17245)
Re—W/W, thermocouples of, uses of, for correcting optical pyrometer readings by flame temperature measurement, 21:9160
Rh—W/W, radiation effects on decalibration of thermocouples of, thermal neutron, 21:22222 (LA-3662)
W/Re—W, characteristics for temperature control to 2300°C in reactors, 21:43298 (CEA-R-3182)
W/Re—W, testing of, high-temperature vacuum-furnace, 21:45345(R) (IDO-17234)

RHENIUM ALLOYS AND SYSTEMS
analysis for molybdenum using 4,5-dihydroxy-3-[(4-chloro-2-hydroxy-3-sulfophenyl)azo]-2,7-naphthalenedisulfonic acid, photometric, 21:27921
analysis for molybdenum using phosphoric acid, titrimetric, 22:22948
book: Creep-Rupture Data for the Refractory Metals to High Temperatures, 25:29868
compatibility with liquid metal—fused chloride system for fuel reprocessing, 22:51044 (ANL-7425, pp 19-41)
corrosion of, review on, 24:17208
creep—rupture at high temperatures, data tabulations on, 23:36068 (GEMP-685)
deposition of, effects of pH on electro-, 23:36042
development for reactor structures, 21:30305
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
fabrication of rods and sheets of, by cold-working and annealing, 24:971
magnetic properties of intermetallic compounds, 25:7491
magnetic properties of intermetallic compounds in, 24:10064
mechanical properties and structure of cold-worked and annealed, 24:971
metallurgical properties of, review on, 24:17276
phase diagram, 23:30067
phase studies of, review of methods for, 25:37972
production of ductile, by chemical vapor deposition, 22:6966
properties of, 23:30067
superconducting transition temperature of intermetallic compounds, 25:7491
tensile properties of, review of, 25:40021 (LA-4670)
Al—Re, phase diagram, 23:30062
Al—Re—U-base, properties for use as reactor fuel with improved resistance to bubble formation, 21:11255(P)
B—Cr—Re, phase diagram, 23:24930
B—Fe—Re, phase studies, 21:6887
B—Hf—Re, phase diagram at 1500°C, isothermal, 25:45135
B—Mn—Re, phase diagram of, 24:10177
B—Nb—Re, phase diagram at 1400°C, isothermal, 25:45135
B—Re, compatibility with sodium and stainless steel at high temperatures, 25:32771
B—Re, phase diagram, 22:28949
B—Re, properties for use in reactor controls, 25:32771
B—Re—V, phase studies of, 24:14940
B—Re—W, compatibility with sodium and stainless steel at high temperatures, 25:32771
B—Re—W, phase studies of cast, 22:45789
B—Re—W, properties for use in reactor controls, 25:32771
B—Re—Zr, phase studies of cast, 22:45789
Be—Re, magnetization of superconducting intermetallic $Be_{22}Re$, 22:11354
Be—Re, nuclear magnetic resonance in $Be_{22}Re$, Knight shift and linewidth of, 24:37571
Be—Re, superconducting transition temperature of intermetallic $Be_{22}Re$, (E), 21:20888
C—Hf—N—Re—Ta-base—W, properties of dispersion strengthened ASTAR-811 CN, 22:38522(R) (N-68-13625)
C—Hf—N—Re—Ta-base—W, properties of dispersion strengthened ASTAR-811 CN, 22:38523(R) (N-68-13630)
C—Hf—Re, phase diagram at 1500°C, 23:30181
C—Hf—Re, phase studies on, 21:39697
C—Hf—Re—Ta-base—W, creep of ASTAR 811C, at high temperatures, 22:41057
C—Hf—Re—Ta-base—W, creep properties of dispersion strengthened, effect of grain size on, 22:38524(R) (N-68-18131)
C—Hf—Re—Ta-base—W, creep properties of, effect of grain size and annealing temperatures on, 22:38523(R) (N-68-13630)
C—Hf—Re—Ta-base—W, properties of, 21:6805(R) (WANL-PR(Q)-010)
C—Hf—Re—Ta-base—W, properties of ASTAR 811C, for use for containment in space Rankine cycles, 23:18190
C—Hf—Re—Ta-base—W, properties of, corrosion-resistant and mechanical, 23:46062
C—Hf—Re—W, mechanical properties of, 25:55433 (N-71-23982)
C—Hf—Re—W-base, ductility and tensile properties of, effects of carbon and hafnium contents on, 23:48420
C—Hf—Re—W-base, mechanical properties of arc-melted, effects of rhenium content on, 23:48387 (N-69-31977)
C—Mo—Re, melting point of, eutectic, 23:30079
C—Nb—Re, phase diagram at 1800°C, 23:30181
C—Nb—Re, phase studies, 21:26841
C—Nb—Re—W-base, composition of, 23:24914(P)
C—Re—Ta, phase diagram at 1800°C, 23:30181
C—Re—Ta, phase diagram at 2100°C, isothermal, 25:42992
C—Re—Ta, phase studies, 21:26841
C—Re—Ta—W-base, tensile properties at 2500 to 4000°F, 23:48417
C—Re—Ti—W-base, ductility and tensile properties of, effects of carbon and titanium contents on, 23:48420
C—Re—W, superconducting transition temperature of, 22:19922
C—Re—W—base—Zr, creep at 1600°C, compressive, 24:25762(R) (BMI-1839)
C—Re—W—Zr, compatibility with uranium carbide and uranium nitride at 1800 to 2000°C, 24:25761(R) (BMI-1823)
C—Re—W—Zr, creep at 1500°C, 24:25761(R) (BMI-1823)
C—Re—W—Zr, properties for use as high-temperature cladding, 24:25761(R) (BMI-1823)
C—Re—W—Zr, thermal expansion at 0 to 2000°C, 24:25761(R) (BMI-1823)
C—Re—W-base, melting point of, eutectic, 23:30079
C—Re—W-base, tensile properties of, effect of electronic structure on, 22:687 (AD-645762)
C—Re—W-base—Zr, compatibility with uranium carbide and uranium nitride to 2100°C, 24:23502(R) (BMI-1830)
C—Re—W-base—Zr, creep at 1600°C, 24:23502(R) (BMI-1830)
C—Re—W-base—Zr, ductility and tensile properties of, effects of carbon and zirconium contents on, 23:48420
C—Re—W-base—Zr, tensile properties at 1700 to 1850°C, 24:25762(R) (BMI-1839)
C—Re—Zr, phase diagram, 23:24932
C—Re—Zr, phase studies, 23:30050 (UCRL-18727)
CeB_6-base—Re, thermoelectric properties of, temperature dependence, 23:8311
Cm_2O_3—Re, interactions in curium-244-enriched, effects of sintering at 1850°C, 24:32415
Co—Re, electric and thermal conductivities of, from 293 to 1123°K, effects of temperature on, 24:21372
Co—Re, performance of cobalt-60-incorporated, in thermionic cells, 21:41155
Co—Re, preparation of cobalt-60-enriched heat sources of, method for, 25:335(P)
Co—Re, preparation of hcp alloys, 22:40993(R) (COO-1198-534)
Co—Re, properties for use as cobalt-60 heat source fuel form, 24:9597(R) (DP-1216)
Co—Re, thermal capacity at low temperatures, 22:40993(R) (COO-1198-534)
Cr—Mo—Re, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Cr—Re, crystal structure of, 24:25692
Cr—Re, deposition on copper, molybdenum, chromium, and tungsten, electrolytic, 21:14808
Cr—Re, ductility of, effects of lattice dilatometry on, 24:25692
Cr—Re, fabrication methods for cobalt-60 heat sources, 21:41147(R) (DP-1120-1)
Cr—Re, hardness of, effects of composition and temperature on decreasing, 25:27209 (N-71-11662)
Cr—Re, magnetic phases in, coexistence of commensurate and oscillatory, (E), 23:20982 (RISO-M-811)
Cr—Re, magnetic properties of, 21:2319
Cr—Re, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Cr—Re, thermionic work functions of, 25:27911
Cr-base—Re, antiferromagnetic energy gap from optical absorption measurements at 4.2°K, 25:11987
Cr-base—Re, ductility of, effects of rhenium content on, 23:48413
Cr-base—Re, hardness at 77 to 430°K, effects of rhenium content on, 25:29871
Cr-base—Re, tensile properties at -196 to 700°C, effects of rhenium content on, 23:27094
Cu-base—Re, strain-stress curves, 22:17116(R) (ORO-3401-3)
Dy—Re, crystal structure of intermetallic $DyRe_2$, (E), 22:22254
Dy—Re—Th, crystal structure of intermetallic compounds of, 25:19235
Dy—Re-base, work function for, (E), 22:34761
Er—Re, crystal structure of intermetallic $ErRe_2$, (E), 22:22254
Er—Re, phase studies, 21:36871
Er—Re, superconducting transition temperature of intermetallic compounds of, 25:36038
Er—Re—Th, crystal structure of intermetallic compounds of, 25:19235
Er—Re-base, work function for, (E), 22:34761
Fe—Re, magnetic properties at 0°K, 22:43594 (ANL-7299, pp 251-64)
Fe—Re, physical properties of intermetallic compounds in, 24:10064
Fe—Re, superconducting transition temperature of intermetallic compounds of, 25:36038
Gd—Re, crystal structure of intermetallic $GdRe_2$, (E), 22:22254
Gd—Re, phase studies, 21:36871
Gd—Re, superconducting transition temperature of intermetallic compounds of, 25:36038
Gd—Re—Th, crystal structure of intermetallic compounds of, 25:19235
Gd—Re-base, work function for, (E), 22:34761
graphite—Re—W, phase diagrams, 23:48479
Hf—Mo—Re—W, surface hardness of, effects of hafnium content on, 22:42344(R) (UCRL-50004-67-3(Pt.1))
Hf—Mo—Re—W-base, diffusion of nitrogen in, at 1500 to 2000°C, 24:1012
Hf—Mo—Re—W-base, nitridation at 1500 to 2000°C, effects of nitrogen on internal, 24:1012
Hf—Re, analysis for hafnium, method for titrimetric, 21:34215(R) (UCRL-50006-67-1)
Hf—Re, analysis of, for hafnium, method for, 21:15836(R) (UCID-15079)
Hf—Re, crystal structure of $HfRe_2$, 24:46755
Hf—Re, mechanical properties of arc melt consolidated, 22:28757(R) (UCRL-13341)
Hf—Re, properties and structure of, 24:1008
Hf—Re, superconductivity of $HfRe_2$, 24:46755
Hf—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)

Hf—Re—Ta-base, tensile properties at -350 to 3550°F, 23:27100
Hf—Re—Ta-base—W, corrosion by lithium and potassium, 21:20474(R) (NASA-CR-72177)
Hf—Re—Ta-base—W, corrosion by lithium, loop tests on, 23:48323(R) (N-69-32032)
Hf—Re—Ta-base—W, cracking sensitivity of, Varestraint testing of hot, 25:13695
Hf—Re—Ta-base—W, creep of ASTAR-811C, at 2650°F, 24:23461
Hf—Re—Ta-base—W, creep of dispersion strengthened, effects of grain size on, 22:38524(R) (N-68-18131)
Hf—Re—Ta-base—W, fabrication and oxidation resistance of, 23:8127 (BM-RI-7211)
Hf—Re—Ta-base—W, properties of dispersion strengthened ASTAR-811, 22:38522(R) (N-68-13625)
Hf—Re—Ta-base—W, properties of dispersion strengthened ASTAR-811, 22:38523(R) (N-68-13630)
Hf—Re—W-base, diffusion of nitrogen in, at 1500 to 2000°C, 24:1012
Hf—Re—W-base, nitridation at 1500 to 2000°C, effects of nitrogen on internal, 24:1012
HfC—Mo—Re, preparation and properties of cermets of, 22:49824
HfC—Re—W-base, mechanical properties of dispersion-strengthened, 25:52327
HfN—Re—W-base, tensile properties at 1700 to 1850°C, 24:25762(R) (BMI-1839)
Ho—Re, superconducting transition temperature of intermetallic compounds of, 25:36038
Ho—Re-base, work function for, 22:34761
Ir—Re, crystal structure of, effects of electronic structure on, 21:6830
Ir—Re, superconductivity, susceptibility, and thermal capacity, correlation between, (E), 22:11383
Ir—Re, superconductivity, susceptibility, and thermal capacity of, (E/T), 22:11384
Ir—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ir—Re—Ti, phase studies of, 23:18242
Ir—Re—W, phase studies of, 25:16527
La—Pd—Re—Ta—Ti-base, production and tensile properties at -196 to +800°C, 22:4789
La—Re, phase diagram, 23:30072
Lu—Re, crystal structure of intermetallic $LuRe_2$, (E), 22:22254
Lu—Re-base, work function for, (E), 22:34761
Mo—Nb—Re, phase diagram, 23:22529
Mo—Nb—Re, properties of, chemical, corrosive, electrical, and mechanical, 23:22529
Mo—Nb—Re, sintering behavior, 23:22529
Mo—Pt—Re, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Mo—Re, brittle failure of, effects of rhenium content on, 23:22526
Mo—Re, compatibility of capsules of, with curium oxide and plutonium oxide at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
Mo—Re, compatibility of fuel capsules of, with curium oxide and plutonium oxide fuels at 1800 to 2000°C, 25:51717(R) (MDC G-3124)
Mo—Re, compatibility of refractory metal-lined fuel capsules of, with molybdenum—actinide cermet fuels at 1500 to 2000°C, 25:51717(R) (MDC G-3124)
Mo—Re, compatibility with 304L stainless steel and rhenium at 1100°C, 21:36782 (BNWL-398)
Mo—Re, compatibility with ceramic radioisotope fuels at 900°C, 25:39650(R) (LA-4697)
Mo—Re, compatibility with Hastelloy C and Hastelloy X at 1100°C, 21:36782 (BNWL-398)
Mo—Re, compatibility with other candidate refractory materials for radioisotope fuel capsules at 2000°F, 24:31589(R) (AI-AEC-12956)
Mo—Re, compatibility with other refractory alloys and materials for use in large radioisotope heat source capsules, 24:41610 (AI-AEC-12966)
Mo—Re, compatibility with plutonium dioxide at 1000 to 2500°C, data tabulations on, 25:6854 (MLM-1706)
Mo—Re, compatibility with plutonium dioxide at 1800 to 2000°C, 25:22135(R) (MDC G-2026)
Mo—Re, compatibility with plutonium dioxide at 1800°C, 24:36505(R) (MDC G-1689)
Mo—Re, compatibility with plutonium dioxide at high temperatures, 25:24538 (MDC G-2034)
Mo—Re, compatibility with plutonium oxides at 1800°C, effects of oxygen on, 24:44655(R) (MDC G-1675)
Mo—Re, compatibility with plutonium-238 dioxide, effects of stoichiometry on, 24:44787(R) (MDC G-1665)
Mo—Re, compatibility with plutonium-238-dioxide to 1900°C, 24:32498
Mo—Re, corrosion by cesium and lithium at 1370 to 1870°C, 23:48339
Mo—Re, corrosion by liquid alkali metals, testing for use in power cycles, 23:18189
Mo—Re, corrosion by liquid zinc and molten chlorides, 22:33528
Mo—Re, corrosion by static liquid lithium, 21:14794
Mo—Re, corrosion of, by liquid bismuth and tin, static, 21:4480 (ANL-7125, pp 200-36)
Mo—Re, creep at 2200 and 2400°C, 23:24847 (GEMP-1008, pp 13-49)
Mo—Re, creep-rupture in argon or hydrogen at 1600 to 2800°C, 23:48425
Mo—Re, creep-rupture properties of, at 1600 and 2200°C, 21:28730(R) (GEMP-475-A)
Mo—Re, deformation of crystals of, effects of single axis expansion on, 24:14806
Mo—Re, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on molybdenum, 21:9152
Mo—Re, ductility of, effects of lattice dilatometry on, 24:25692
Mo—Re, elastic constants of solid solutions of, temperature dependence of adiabatic, (E), 23:3049
Mo—Re, electron emission at 2300°K from, 23:22567
Mo—Re, enthalpy, 22:28780 (TID-24314(Pt.1))
Mo—Re, extrusion of small diameter tubes and wires of, processing data on, 23:6650 (GEMP-1004, pp 178-97)
Mo—Re, faulting in filings of, x-ray diffraction search for, 25:19248
Mo—Re, hardness after contact exposure to plutonium dioxide at 1800°C, 25:24614(R) (MDC G-2033)
Mo—Re, hardness of, effects of composition and temperature on decreasing, 25:27209 (N-71-11662)
Mo—Re, high-temperature stress rupture of, 21:13177
Mo—Re, magnetic properties of, 21:13505
Mo—Re, magnetization measurements of superconducting, containing iron impurities, 21:33297
Mo—Re, magnetization of superconducting, effect of microstructure on, 22:22077
Mo—Re, mechanical properties of arc melt consolidated, 22:28757(R) (UCRL-13341)
Mo—Re, oxidation of, analytical methods for measurement of electrochemical, 22:28795
Mo—Re, oxidation reactions at >1000°C, testing for use in heat source capsules, 25:6832 (SC-DR-70-164)
Mo—Re, phase diagram, 23:22529
Mo—Re, plastic properties of welding alloys of, 21:39626(T) (AD-652472)
Mo—Re, preparation of pre-alloyed powdered, powder metallurgy method for, 24:23443(P)
Mo—Re, preparation of tubes by extrusion of, 21:34865(R) (GEMP-67)
Mo—Re, production of ductile, by chemical vapor deposition, 22:6966
Mo—Re, properties and structure of, 24:1008
Mo—Re, properties and uses, review of, 23:27093
Mo—Re, properties for use as filler metal for welding tungsten alloys, 24:36895 (ORNL-4520, pp 227-44)
Mo—Re, properties for use in reactor components, review of, 25:2647
Mo—Re, properties of prealloyed powders of, 23:41580
Mo—Re, properties of superconducting, 21:33353
Mo—Re, purification and properties of, 21:28730(R) (GEMP-475-A)
Mo—Re, radiation effects on, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
Mo—Re, radiation effects on electric conductivity of thermocouples wires of, 23:8148 (BMI-X-10246)
Mo—Re, radiation effects on hardness and tensile properties of, effects of annealing on fast-neutron, 21:13141(R) (GEMP-63)
Mo—Re, radiation effects on hardness of polycrystalline, as function of temperature, fast-neutron, 21:32931(R) (BNWL-CC-883)
Mo—Re, radiation effects on hot microhardness of, in-pile, 24:8159 (GEMP-716)
Mo—Re, radiation effects on mechanical properties of, fast neutron, 25:8952 (ORNL-4600, pp 81-125)
Mo—Re, radiation effects on mechanical properties of, neutron, 21:28730(R) (GEMP-475-A)
Mo—Re, radiation effects on microstructure of, fast neutron, 25:29904 (ORNL-4630, pp 73-95)
Mo—Re, radiation effects on tensile properties of, annealing of fast neutron, 21:26861(R) (BNWL-CC-658)
Mo—Re, radiation effects on, in-reactor, 21:9198 (GEMP-61, pp 33-54)
Mo—Re, stability in pure nitrogen at 3500°F, 22:37775 (BNL-50082, pp 40-78)
Mo—Re, stress rupture behavior at 1600 to 2200°C, 23:985 (GEMP-636)
Mo—Re, superconducting critical fields and generalized Ginzburg—Landau parameters for, containing paramagnetic impurities, (E), 23:48860
Mo—Re, superconducting lower critical field of, normal-state resistivity dependence of, 23:3427
Mo—Re, superconducting transition temperature and low-temperature, thermal capacity of sigma-phase, (E/T), 25:14177
Mo—Re, superconducting transition temperature as function of hydrostatic pressure in, (E), 24:19860
Mo—Re, superconducting transition temperature in high T/sub c/ intermetallic $MoRe_3$, sensitivity to residual stress of, (E), 25:43302
Mo—Re, tensile properties of, effects of annealing and cold working on, 22:28757(R) (UCRL-13341)
Mo—Re, testing of fuel capsules of, under space vehicle launch—abort conditions, 25:32128 (SC-RR-710012)
Mo—Re, thermionic work functions of, 25:27911
Mo—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Mo—Re, thermoelectric stability of thermocouple elements of, 21:6336
Mo—Re, thermoelectron emission properties of, 22:4782
Mo—Re, transition temperature of superconducting, high-pressure effects on, (E), 23:27534
Mo—Re, ultrasonic attenuation in superconducting, (E), 21:37399
Mo—Re, work function of, 24:37560
Mo—Re—Ru, composition of, for brazing molybdenum and tungsten alloys, 21:6784(P)
Mo—Re—Ru, phase diagram, 23:22529
Mo—Re—Ru, properties of, chemical, corrosive, electrical and mechanical, 23:22529
Mo—Re—Ru, sintering behavior, 23:22529
Mo—Re—ThO_2—W, elasticity of, 21:13175
Mo—Re—Ti, corrosion by non-oxidizing acids, 23:10163
Mo—Re—W, analysis by x-ray fluorescence, 23:28673(R) (UCRL-50006-69)
Mo—Re—W, analysis for components, 22:30436(R) (UCRL-50006-68-1)
Mo—Re—W, analysis for hafnium, spectrographic, 23:28673(R) (UCRL-50006-69)
Mo—Re—W, analysis for metallic impurities, spectrographic, 22:30436(R) (UCRL-50006-68-1)
Mo—Re—W, analysis for molybdenum by controlled-potential coulometry, 22:44993
Mo—Re—W, analysis for molybdenum by controlled-potential coulometry, 23:28673(R) (UCRL-50006-69)
Mo—Re—W, analysis of as-pulverized and leached powders of, for impurities, 21:6804(R) (USBM-RC-1264)
Mo—Re—W, brittleness of sintered, test specimen size optimization for determining, 23:36072 (LA-4136)
Mo—Re—W, compatibility of capsules of, with curium oxide and plutonium oxide at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
Mo—Re—W, compatibility of fuel capsules of, with curium oxide and plutonium oxide fuels at 1800 to 2000°C, 25:51717(R) (MDC G-3124)
Mo—Re—W, compatibility with plutonium dioxide at high temperatures, 25:24538 (MDC G-2034)
Mo—Re—W, compatibility with plutonium oxides at 1800°C, effects of oxygen on, 24:44655(R) (MDC G-1675)
Mo—Re—W, corrosion by zinc and zinc alloys, 24:258 (ANL-7575, pp 19-46)
Mo—Re—W, creep properties at 1000 to 2200°C in vacuum, review of, 24:996
Mo—Re—W, creep properties of, at 1800 to 4000°F, effects of grain size on, 25:55431 (N-71-23110)
Mo—Re—W, creep rupture at high temperatures, 23:6662 (GEMP-1004, pp 14-88)
Mo—Re—W, creep rupture properties of, at 1600°C, 21:13141(R) (GEMP-63)
Mo—Re—W, creep-rupture behavior at high temperatures, 22:8723 (GEMP-570)
Mo—Re—W, creep-rupture properties and microstructure of, at 1600 and 2200°C, 21:28730(R) (GEMP-475-A)
Mo—Re—W, creep-rupture properties of sheets at 1600 and 2200°C, 21:34865(R) (GEMP-67)
Mo—Re—W, crystal structure and emission properties of, 22:34068
Mo—Re—W, deposition of coatings on copper or molybdenum, chemical vapor, 21:34866 (LA-DC-8605)
Mo—Re—W, diffusion in powdered, parameters of Kirkendall type, 23:32023 (LA-4153)
Mo—Re—W, diffusion of fission products in fuel cans of, 24:1102 (GEMP-682)
Mo—Re—W, diffusion of oxygen in, at 2000 to 2800°C, 22:45815 (GEMP-439)
Mo—Re—W, ductility of sintered, effects of rhenium and tungsten contents and temperature on, 23:43963 (LA-4173)
Mo—Re—W, ductility, grain size, and hardness of, to 2600°C, effects of aging on, 21:28730(R) (GEMP-475-A)
Mo—Re—W, effects on space power reactor reactivity of uncertainties in cross sections of, 22:20899 (UCRL-70797)
Mo—Re—W, electric conductivity at room temperature to 1800°C, 23:8104(R) (GEMP-1006)
Mo—Re—W, engineering properties of powder metallurgy fabricated tubes of, 21:13121(R) (COO-1518-4)
Mo—Re—W, extrusion into tubing, 21:13097 (ORNL-3970, pp 61-80)
Mo—Re—W, extrusion of small diameter tubes and wires of, processing data on, 23:6650 (GEMP-1004, pp 178-97)
Mo—Re—W, fabrication and engineering properties of, at high temperatures, 21:31090(R) (USBM-RC-1288)
Mo—Re—W, fabrication by powder metallurgy, 22:8723 (GEMP-570)
Mo—Re—W, fabrication into fast breeder reactor thermocouple sheaths, 23:24848 (GEMP-1008, pp 115-41)
Mo—Re—W, fabrication of irradiation capsules of, welding methods for, 25:30010 (ORNL-4630, pp 179-85)
Mo—Re—W, fabrication of seamless tubing of, method for, 21:28730(R) (GEMP-475-A)
Mo—Re—W, fabrication of tubes of, by powder metallurgy, 21:13121(R) (COO-1518-4)
Mo—Re—W, fabrication of tubes of, drawing procedures for, 21:13141(R) (GEMP-63)
Mo—Re—W, fabrication of, for use as reactor fuel cladding material, 21:11190 (ANL-7155, pp 1-166)
Mo—Re—W, hardness after contact exposure to plutonium dioxide at 1800°C, 25:24614(R) (MDC G-2033)
Mo—Re—W, hardness at 25 to 1200°C, 22:15225 (GEMP-1002, pp 38-64)
Mo—Re—W, hardness of annealed and cold-rolled, 21:34865(R) (GEMP-67)
Mo—Re—W, mechanical properties at high temperatures, 22:49680(R) (USBM-RC-1347)
Mo—Re—W, mechanical properties of, 21:22859 (GEMP-497)
Mo—Re—W, mechanical properties of, effects of recrystallization annealing on, 21:39626(T) (AD-652472)
Mo—Re—W, metallurgical properties of sheets of, effects of aging on, 21:13141(R) (GEMP-63)
Mo—Re—W, microstructure and grain size of annealed and cold-rolled, 21:34865(R) (GEMP-67)
Mo—Re—W, microstructure of prealloyed compacted powders of, 23:32023 (LA-4153)
Mo—Re—W, microstructure of vapor deposited, effects of temperature on, 22:7007
Mo—Re—W, physical properties of, 21:22859 (GEMP-497)
Mo—Re—W, preparation by arc melting and powder metallurgy, 22:49680(R) (USBM-RC-1347)
Mo—Re—W, preparation of powders of, by hydrogen—fluorine chemical flame process, 21:32843 (K-L-6156)
Mo—Re—W, preparation of tubes by extrusion of, 21:34865(R) (GEMP-67)
Mo—Re—W, production by hydrogen reduction of fluorides in flame processes, 22:6965
Mo—Re—W, production of seamless tubes of, for fuel element cladding, 23:8104(R) (GEMP-1006)
Mo—Re—W, purification and properties of, 21:28730(R) (GEMP-475-A)

Mo—Re—W, purification by reduction in hydrogen—water vapor atmosphere, 21:34865(R) (GEMP-67)
Mo—Re—W, purification of, 21:13141(R) (GEMP-63)
Mo—Re—W, purification of, for sheet production, 23:8104(R) (GEMP-1006)
Mo—Re—W, radiation effects on, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
Mo—Re—W, radiation effects on hardness of polycrystalline, as function of temperature, fast-neutron, 21:32931(R) (BNWL-CC-883)
Mo—Re—W, radiation effects on mechanical properties of, neutron, 21:28730(R) (GEMP-475-A)
Mo—Re—W, radiation effects on tensile properties of sheets of, annealing of fast-neutron, 21:32931(R) (BNWL-CC-883)
Mo—Re—W, recrystallization of, methods for, 21:34865(R) (GEMP-67)
Mo—Re—W, rupture of, parameters of stress, 23:22551
Mo—Re—W, stability in pure nitrogen at 3500°F, 22:37775 (BNL-50082, pp 40-78)
Mo—Re—W, strength of, at 1400 to 1600°C, effects of aging on, 21:13141(R) (GEMP-63)
Mo—Re—W, stress rupture behavior at 1600 to 2200°C, 23:985 (GEMP-636)
Mo—Re—W, tensile properties of sintered powder, 21:45921
Mo—Re—W, welding methods for, testing of, 22:44876(R) (UCRL-50004-68-1(Pt.1))
Mo—Re—W-base, compatibility with plutonium dioxide at 1800°C, 24:36505(R) (MDC G-1689)
Mo—Re—W-base, compatibility with plutonium-238 dioxide, effects of stoichiometry on, 24:44787(R) (MDC G-1665)
Mo—Re—W-base, corrosion by lithium at 1200 to 1400°C, metallographic and microprobe analysis of, 23:24814 (UCRL-50603)
Mo—Re—W-base, creep and porosity of, effects of purity on, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
Mo—Re—W-base, creep and stress-rupture at 1600 and 2200°C, 22:612(R) (GEMP-69)
Mo—Re—W-base, creep at 1400 to 2200°C, 24:44673 (ORNL-4560, pp 186-97)
Mo—Re—W-base, creep of arc-melted, at 1200 to 2200°C, effects of stress on, 25:8852 (ORNL-4600, pp 198-209)
Mo—Re—W-base, creep rupture of sheets of, effects of purification during fabrication on, 24:10039 (GEMP-1012(Pt.1), pp 13-70)
Mo—Re—W-base, creep rupture of, effects of pretest annealing and processing on, 24:14695 (GEMP-1013, pp 225-63)
Mo—Re—W-base, creep-rupture at 1600 and 2200°C, effects of hydrogen sintering on, 23:30004 (GEMP-1010, pp 13-43)
Mo—Re—W-base, crystal structure of, effects of annealing and recrystallization on, 22:612(R) (GEMP-69)
Mo—Re—W-base, ductility of cold-rolled, effects of isochronal anneals in hydrogen on, 22:15178 (GEMP-1002, pp 77-82)
Mo—Re—W-base, ductility, grain size, hardness, and recrystallization, 23:6651 (GEMP-1004, pp 198-215)
Mo—Re—W-base, electric conductivity at 23 to 1800°C, 24:10039 (GEMP-1012(Pt.1), pp 13-70)
Mo—Re—W-base, fabrication into tubes by drawing, 21:9082 (GEMP-61, pp 55-76)
Mo—Re—W-base, fabrication of thermocouple sheathing of, process development for, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
Mo—Re—W-base, fabrication of tubes of, development of drawing and extrusion methods for, 22:42994 (ANL-7299, pp 173-97)
Mo—Re—W-base, fabrication of tubes of, development of drawing methods for, 24:14692 (GEMP-1013, pp 53-95)
Mo—Re—W-base, fabrication of tubular thermocouple sheaths of, 23:24853 (GEMP-1008, pp 253-73)
Mo—Re—W-base, hardness of, effects of temperature on, 22:43615(R) (BNWL-710)
Mo—Re—W-base, microstructure of cold-rolled, effects of aging on, 22:15178 (GEMP-1002, pp 77-82)
Mo—Re—W-base, microstructure of, effects of pretest annealing and processing on, 24:14695 (GEMP-1013, pp 225-63)
Mo—Re—W-base, microstructure of, effects of stress-relief temperature on, 23:30005 (GEMP-1010, pp 99-147)
Mo—Re—W-base, performance as barrier to prevent oxygen loss from uranium dioxide, 23:8335
Mo—Re—W-base, porosity of electron-beam weld seams on samples of extruded, 22:612(R) (GEMP-69)
Mo—Re—W-base, preparation of ductile low-porosity, 21:9082 (GEMP-61, pp 55-76)
Mo—Re—W-base, preparation of sintered sleeves of, for tube-extrusion blanks, 24:44675 (USBM-RC-1394)
Mo—Re—W-base, production of high-purity, methods for, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
Mo—Re—W-base, production procedures for, 23:6651 (GEMP-1004, pp 198-215)
Mo—Re—W-base, production quality control for high-purity sheet, flowsheets for, 23:24848 (GEMP-1008, pp 115-41)
Mo—Re—W-base, properties of, 21:31017
Mo—Re—W-base, radiation effects on fuel cladding of, in-pile, 24:14966 (GEMP-1013, pp 149-65)
Mo—Re—W-base, radiation effects on hot microhardness of, in-pile, 24:8159 (GEMP-716)
Mo—Re—W-base, radiation effects on stability of, relations of temperature with in-pile, 24:10114 (GEMP-1012(Pt.1), pp 71-262)
Mo—Re—W-base, radiation effects on, in-reactor, 21:9198 (GEMP-61, pp 33-54)
Mo—Re—W-base, stress-rupture at 1400 to 2200°C, 23:48349 (ORNL-4420, pp 173-87)
Mo—Re—W-base, tensile properties of welds in, at high temperatures, 25:27178 (N-71-10353)
Mo—Re—W-base, weld integrity of, effects of impurities on, 24:966 (GEMP-1012(Pt.2), pp 13-39)
Mo—Re—W-base, weldability of arc cast and powder metallurgy, 25:27178 (N-71-10353)
Mo—Re—W-base, welding of arc cast and powder metallurgy, electron beam and gas tungsten-arc, 24:12379
Mo—Re—W-base, welding of, effects of impurities, microstructure, and surface preparation on, 23:24849 (GEMP-1008, pp 143-54)
Mo—Re—ZrC, preparation and properties of cermets of, 22:49824
Mo—Re-base, creep rupture of, testing for use in thermionic capsules, 25:6857 (ORNL-TM-3202)
Mo—Re-base, mechanical and physical properties of, effects of hafnium carbide on zirconium carbide at 2500 and 2730°C, 21:46011
Mo-base—Pt—Re, microstructure at 1050 to 1800°C, 24:14778
Mo-base—Pt—Re, superconducting transition temperatures of, effects of composition on, 24:14778
Mo-base—Re, compatibility with hafnium carbide at 2450°C, 22:49825
Mo-base—Re, compatibility with niobium carbide at 2450°C, 22:49825
Mo-base—Re, compatibility with tantalum carbide at 2450°C, 22:49825
Mo-base—Re, compatibility with zirconium carbide at 2450°C, 22:49825
Mo-base—Re, creep rupture of powder metallurgy prepared, in hydrogen at 1600 and 2200°C, 22:15176 (GEMP-1002, pp 11-37)
Mo-base—Re, deformation at low temperatures, effects of crystal orientation on plastic, 25:42886 (UCRL-20500, pp 86-146)
Mo-base—Re, ductility of, effects of rhenium content, 23:48413
Mo-base—Re, elastic properties at -190 to +100°C, 23:10194
Mo-base—Re, hardness at 77 to 576°K, effects of rhenium content on, 25:29871
Mo-base—Re, impact testing at -196°C, microcrack formation from, 21:36854
Mo-base—Re, mechanical properties of monocrystalline, asymmetric, 25:29829
Mo-base—Re, microstructure of twin—slip and twin—twin interactions in, 25:35481
Mo-base—Re, plastic deformation of monocrystalline, asymmetric, 23:41532 (UCRL-18735, pp 81-128)
Mo-base—Re, plastic deformation of monocrystalline, at 78 to 425°K, 24:23464
Mo-base—Re, plastic properties at 78 to 425°K, 23:10194
Mo-base—Re, preparation using high-purity molybdenum, product porosity and tensile properties, 23:6650 (GEMP-1004, pp 178-97)
Mo-base—Re, radiation effects on microstructure of, fast neutron, 25:45101
Mo-base—Re, thermionic properties of (100) faces of single-crystal, 24:3463
Mo-base—Re—Rh, performance in brazing tungsten, molybdenum, and their alloys, 21:26784(P)
Mo-base—Re—Ru, performance in brazing molybdenum, tungsten, and their alloys, 21:26781(P)
Mo-base—Re—Ru, performance in brazing tungsten, molybdenum, and their alloys, 21:26781(P)
Mo-base—Re—W, corrosion of pumped capsules of, by liquid lithium at 1650°C, 23:48326 (UCRL-50511)
Mo-base—Re—W, creep-rupture at 1600 to 2200°C, 21:9137 (GEMP-61, pp 17-32)
Mo-base—Re—W, performance as brazing alloy for tungsten, 21:26765 (NASA-TN-D-3944)
Mo-base—Re—W, preparation using high-purity molybdenum, product porosity and tensile properties, 23:6650 (GEMP-1004, pp 178-97)
Mo-base—Re—W, stress-rupture of, 23:12260(R) (ORNL-4330)
Mo-base—Rh, tensile properties of, effects of mechanical twinning at 600°C on, 21:16595(R) (N-67-10893)
N—Re—Ta-base, internal friction spectrum of, rhenium—nitrogen interaction from, 25:49451
N—Re—Zr, compound formation and stability in, 21:33002
Nb—Re, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Re, hardening and softening of monocrystalline, mechanisms of solution, 25:35436
Nb—Re, phase diagram for, review on, 23:47435
Nb—Re, properties and structure of, 24:1008
Nb—Re, properties of, effects of composition on, 21:14842
Nb—Re, tensile properties of, 21:45902
Nb—Re, thermodynamic properties of NbRe$_3$, 24:44720
Nb—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Nb—Re—Ta, crystal structure and stability of, 21:34907
Nb—Re—Zr, oxidation in oxygen at 1000 deg C, kinetics of, 21:4912
Nb—Re-base, sorptive properties for water vapor of electron emitters of, determination of, 22:28803
Nb-base—Re, preparation of corrosion-resistant high-temperature, 21:26828(P)
Ni—Re, mechanical properties of arc melt consolidated, 22:28757(R) (UCRL-13341)
Ni—Re, phase diagram of, 25:52384
Ni—Re, properties of suspension electrodes, catalytic, 24:181 (ORNL-4437, pp 87-97)
Ni—Re, tensile properties of, effects of annealing and cold working on, 22:28757(R) (UCRL-13341)
Ni-base—Re, neutron magnetic scattering by, 22:24809
Ni-base—Re, thermal conductivity of dilute, above 400°K, electronic and lattice components of, 24:19413 (CONF-691002-, pp 307-17)
Ni-base—Re—W, properties of rhenium—tungsten fiber-reinforced, for use in turbine blades, 25:16437 (AGARD-CP-73-71, Paper 19)
O—Re—Zr, compound formation and stability in, 21:33002
Os—Re, superconducting transition temperature as function of hydrostatic pressure in, (E), 24:19860
Os—Re, superconducting transition temperature, pressure effects on, 22:11342
Os—Re, superconductivity of hcp, (E), 25:30433
Os—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Os—Re, transition temperature of superconducting, high-pressure effects on, (E), 23:27534
Os—Re—Ti, phase studies of, 23:18242
Os—Re—W, phase studies of sintered, 22:7023
Os—Re—W, tensile properties of sintered, 22:7023
Os—Re-base, sound velocity at room temperature in, 25:55078(R) (NYO-3906-5)
Pd—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd-base—Re, corrosion by air at 800 to 1200°C, 24:17211
Pd-base—Re, thermoelectric properties of solid solutions of, 24:17271
Pr-base—Re, phase diagram of, 25:55567
Pr-base—Re, phase diagram of, 25:685 (CONF-700403-(Vol.2), pp 570-81)
Pt—Re, annealing and cleaning for large radioisotope heat source capsules, methods for, 23:33329 (AI-AEC-12822)
Pt—Re, crystal structure of, effects of electronic structure on, 21:6830
Pt—Re, fabrication for barrier cap and shell of large radioisotope heat source, 23:33329 (AI-AEC-12822)
Pt—Re, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt—Re—Ta, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Pt—Re—Ti, phase studies of, 23:18242
Pt—Re—W, analysis of valve grids of, for platinum and rhenium, activation, 23:83
Pt-base—Re—W, mechanical properties of, effects of annealing and recrystallization on, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt-base—Re—W, microstructure of, effects of aging at 400 to 1600°C on, 25:49379 (ORNL-TM-3416, pp 184-91)
Pu—Re, analysis for rhenium, spectrophotometric, 21:35847 (LA-3711)
Pu—Re, phase studies of, 22:2655
rare earths—Re, formation of intermetallic compounds of, 23:30068
rare earths—Re, physical properties of intermetallic compounds in, 24:10064
Re—ReO$_2$, vaporization of, mass spectrometric studies on, 22:25321 (ANL-7375, pp 95-134)
Re—Rh, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Re—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Re—Ru, superconductivity of hcp, (E), 25:30433
Re—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Re—Ru, transition temperature of superconducting, (E), 23:27534
Re—Ru—W, brazing alloys of, for tantalum and tungsten, 22:19545(P)
Re—Ru—W, preparation for brazing tungsten and tantalum, 21:45881(P)
Re—Sc, microhardness of, 21:11253
Re—Sc, phase diagram and formation of intermetallic compounds, 21:11253
Re—Sc, physical properties of intermetallic compounds in, 24:10064
Re—Sc, superconducting transition temperature of intermetallic compounds of, 25:36038
Re—Si—W, phase studies, 24:3038
Re—Ta, deformation of monocrystals of, at 77 to 623°K, 22:28811
Re—Ta, deformation of single crystals of, at low temperatures, 22:31408
Re—Ta, hardening in monocrystals of, at 77 to 2000°K, solid-solution, 25:55457
Re—Ta, mechanical properties at 4.2 to 550°K, effects of carbon, nitrogen, and oxygen interstitials on, 25:16478
Re—Ta, mechanical properties of arc melt consolidated, 22:28757(R) (UCRL-13341)
Re—Ta, mechanical properties of single-crystal, 21:24767
Re—Ta, phase studies at 2500°C, 22:4809
Re—Ta, properties and structure of, 24:1008
Re—Ta, slip in crystals of, asymmetry of, 25:35381
Re—Ta, superconductivity of, (E), 24:15206
Re—Ta, tensile properties of, effects of annealing and cold working on, 22:28757(R) (UCRL-13341)
Re—Ta, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Re—Ta, thermoelectron emission properties of, 22:4782
Re—Ta—W, phase studies at 2500°C, 22:4809
Re—Ta—W-base, tensile properties of carbide and solid solution strengthened, at 2500 to 4000°F, 23:48417
Re—Ta-base, elastic properties of monocrystalline, at 80 to 1400°K, 25:2721
Re—Ta-base, hardening in solid solutions of, parameters controlling, 25:35384
Re—Ta-base, mechanical properties of dilute, containing trace nitrogen and oxygen, 25:4786 (COO-1676-13)
Re—Ta-base, oxygen scavenging effect in solid solutions of, internal friction study of, 25:40042
Re—Ta-base, tensile properties of solid-solution, effects of temperature on, 23:43969
Re—Ta-base—V, tensile properties at -350 to 3550°F, 23:27100
Re—Ta-base—W, creep of Astar 811C, in vacuum at 1600 to 2600°F and 0.5 to 65 ksi stress, 22:49715(R) (N-68-23642)
Re—Ta-base—W, creep of Astar811-C, at high temperatures, 21:26797(R) (NASA-CR-72185)

Re—Ta-base—W, creep testing of Astar 811C, at high temperatures, 22:43568 (N-68-13631)
Re—Ta-base—W, tensile properties at -350 to 3550°F, 23:27100
Re—Ta-base—W, tensile properties at 75 to 3500°F, 23:48423
Re—TaC, phase diagram, 24:10083
Re—Tb, crystal structure of intermetallic TbRe$_2$, (E), 22:22254
Re—Tb, phase diagram, 23:10223
Re—Tb, phase diagram of, 23:10229
Re—Tb, superconducting transition temperature of intermetallic compounds of, 25:36038
Re—Tb—Th, crystal structure of intermetallic compounds of, 25:19235
Re—Tc, phase studies of, 22:4807
Re—Th, crystal structure of ThRe$_2$, 24:46755
Re—Th, phase diagram and structure, 23:30071
Re—Th, superconductivity of ThRe$_2$, 24:46755
Re—Th-base, crystal structure of, 23:51070
Re—Th-base, phase studies, 23:51070
Re—ThO$_2$—W, compatibility at 1700 to 1900°C, 22:10481(R) (ALO-3634-6)
Re—ThO$_2$—W, density of sintered powder of, effects of rhenium content on, 23:41590
Re—ThO$_2$—W, fabrication and properties of wires of, 21:14800(R) (N-66-26238)
Re—ThO$_2$—W, heat transfer through cylindrical-edge and planar insulation samples of, 22:10481(R) (ALO-3634-6)
Re—ThO$_2$—W, mechanical properties of sheets of, at 1928°C, 22:643(R) (AD-645143)
Re—ThO$_2$—W, sintering of powdered, at 1600°C, 23:41590
Re—ThO$_2$—W-base, crystallization behavior of dispersion-strengthened, effects of cold working on, 25:52458
Re—ThO$_2$—W-base, preparation by powder metallurgy, development of method for, 24:4831
Re—ThO$_2$—W-base, tensile properties at 1700 to 1850°C, 24:25762(R) (BMI-1839)
Re—Ti, corrosion by non-oxidizing acids, 23:10163
Re—Ti, oxidation at 800 to 1400°C, mechanism of, 21:26800 (NP-16704)
Re—Ti, properties and structure of, 24:1008
Re—Ti-base, oxidation by oxygen at 1 to 10 torr and at 800 to 1400°C, 22:12977
Re—Tm, crystalline electric field splitting in intermetallic TmRe$_2$ from thulium-169 Moessbauer effect, (E), 22:17806
Re—U, phase studies on intermetallic compound delta(U$_2$Re) in, 21:24791
Re—U, phase studies on metastable α, α'', and γ^{0} structures in, 21:24793
Re—U, phase studies on structure and reversible alpha-beta transformations in, 21:24792
Re—UO$_2$, stability of clad fuels of, at 1400 to 1600°C, thermal, 24:23539 (GEMP-741)
Re—UO$_2$—W, radiation effects on dimensions and fission product containment of clad fuels of, in-pile, 24:14966 (GEMP-1013, pp 149-65)
Re—V, properties and structure of, 24:1008
Re—W, analysis for fluorides, 23:7445 (UCRL-50522)
Re—W, analysis for hafnium, spectrographic, 23:28673(R) (UCRL-50006-69)
Re—W, analysis for minor constituents, mass-spectrometric, 22:14431 (ORNL-4196, pp 59-62)
Re—W, analysis for rhenium by thin-layer chromatography, 23:6080
Re—W, analysis for rhenium, spectrophotometric, 22:1972
Re—W, analysis for tungsten, 22:14428 (ORNL-4196, pp 33-44)
Re—W, analysis for tungsten, method for, 22:27530 (CEA-N-816, pp 9-65)
Re—W, analysis of, for fluoride traces, method for, 21:15835(R) (UCID-15066)
Re—W, brittle failure of, effects of rhenium content on, 23:22526
Re—W, coating of substrate with, method for, 21:39605(P)
Re—W, compatibility of capsules of, with curium oxide and plutonium oxide at 1800 to 2000°C, 25:40091(R) (MDC G-2055)
Re—W, compatibility with Hastelloy C and Hastelloy X at 1100°C, 21:36782 (BNWL-398)
Re—W, compatibility with platinum, rhenium, 304L stainless steel, and tantalum at 1100°C, 21:36782 (BNWL-398)
Re—W, compatibility with plutonium dioxide at 1800 to 2000°C, 25:22135(R) (MDC G-2026)
Re—W, compatibility with uranium dioxide at 200 to 2500°C, (E), 23:16463(T) (EURFNR-569)
Re—W, compatibility with uranium nitride (UN), effects of annealing on, 23:49601(R) (UCRL-50004-67-3(Pt.2))
Re—W, composition and metallography of as-received, 23:25020(R) (BMI-1859)
Re—W, corrosion by liquid alkali metals, testing for use in power cycles, 23:18189
Re—W, corrosion by liquid and gaseous cesium, 22:647(R) (BNL-50077)
Re—W, corrosion by liquid zinc and molten chlorides, 22:33528
Re—W, corrosion by tin at 1300°C, 24:1309 (ANL-7575, pp 136-69)
Re—W, corrosion by tin at 1300°C, (E), 23:27409 (ANL-7550, pp 74-92)
Re—W, corrosion of, by cesium and lithium vapors to 3400°F, 21:9056
Re—W, creep and tensile properties of drawn wires of, 21:6815
Re—W, creep at 1400 to 1900°C at stresses to 10,000 psi in vacuum of less than 10^{-8} torr, 23:8171 (UCRL-70524)
Re—W, creep behavior at 1800°C, 25:49374 (ORNL-TM-3300, pp 245-62)
Re—W, creep behavior of, effects of composition and heat treatments on, 22:42344(R) (UCRL-50004-67-3(Pt.1))
Re—W, creep of solid solution, 24:25695
Re—W, creep properties at 1000 to 2200°C in vacuum, review of, 24:996
Re—W, creep properties at 2000 deg C, 21:236(R) (STL-517-0038)
Re—W, creep rupture at high temperatures, 23:6662 (GEMP-1004, pp 14-88)
Re—W, creep strain testing and analysis for Poodle fuel capsules, 21:43207(R) (STL-517-0049(Vol.1))
Re—W, creep under stress, effects of oxygen at high temperature on, 25:29786 (ORNL-4630, pp 207-25)
Re—W, creep-rupture properties and microstructure of, at 1600 to 2600°C, 21:28730(R) (GEMP-475-A)
Re—W, creep-rupture properties of sheets at 1600°C, 21:34865(R) (GEMP-67)
Re—W, crystal structure of, 24:25692
Re—W, crystal structure of A15-type phase in vapor-deposited, 21:32904 (ORNL-P-3101)
Re—W, crystal structure of, effects of electronic structure on, 21:6830
Re—W, deformation at 1400 to 1900°C, mechanisms of, 23:24814 (UCRL-50603)
Re—W, deformation of monocrystals of, at 150, 300, and 590°K, effects of strain on, 24:8128 (N-69-39182)
Re—W, deposition on copper substrates by hydrogen reduction of hexafluorides, 21:18224 (BM-RI-6915)
Re—W, deposition on spherical reactor fuels as coating, 22:45811(P)
Re—W, deposition on uranium dioxide spheroids from fluoride vapors, 22:7044
Re—W, development, properties, and uses of, 22:52179
Re—W, diffusion mechanisms in, at 1600 to 2000°C, 25:49442
Re—W, diffusion of molybdenum and rhenium in, 21:34903
Re—W, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on tungsten, 21:9152
Re—W, ductile-to-brittle transition-temperatures for, comparison of, 22:48787
Re—W, ductility of chemical-vapor-deposited, grain stabilization for, 22:6966
Re—W, ductility of, effects of lattice dilatometry on, 24:25692
Re—W, electric and thermal properties at high temperatures, 23:6662 (GEMP-1004, pp 14-88)
Re—W, electric conductivity at 300 to 2300°C, 22:15176 (GEMP-1002, pp 11-37)
Re—W, emissivity measurements on, 22:2665(R) (N-67-16572)
Re—W, engineering properties of powder metallurgy fabricated tubes of, 21:13121(R) (COO-1518-4)
Re—W, engineering properties of sheets of, 21:6804(R) (USBM-RC-1264)
Re—W, extrusion into tubing, 21:13097 (ORNL-3970, pp 61-80)
Re—W, extrusion of small diameter tubes and wires of, processing data on, 23:6650 (GEMP-1004, pp 178-97)
Re—W, fabrication and engineering properties of, at high temperatures, 21:31090(R) (USBM-RC-1288)
Re—W, fabrication and properties of, for use as reactor fuel cladding material, 21:11190 (ANL-7155, pp 1-166)
Re—W, fabrication into porous ionizer structures, 21:16575
Re—W, fabrication into shapes by chemical vapor deposition, 21:34871 (UCRL-70340(Pt.1))
Re—W, fabrication of foils of, for use in thermal insulation, 22:8301(R) (ALO-3634-7)
Re—W, fabrication of porous ionizers from powders of, 21:6770(R) (N-66-30489)
Re—W, fabrication of seamless tubes of, by extrusion, drawing, and swaging, 21:9107
Re—W, fabrication of seamless tubing of, method for, 21:28730(R) (GEMP-475-A)
Re—W, fabrication of small-diameter thin-walled tubes of, 21:13118(R) (ANL-7151)
Re—W, fabrication of tubes of, by hydrogen reduction of metal hexafluorides and vapor deposition, 24:4753
Re—W, fabrication of tubes of, by powder metallurgy, 21:13121(R) (COO-1518-4)
Re—W, fabrication of tubes of, by vapor deposition, 23:24814 (UCRL-50603)
Re—W, fabrication of tubular, 23:30140 (GEMP-1010, pp 260-90)
Re—W, fabrication of tubular, for thermocouples, 23:30005 (GEMP-1010, pp 99-147)
Re—W, feed materials for chemical vapor deposition of, economic analysis of direct fluorination of scrap materials for, 22:6967
Re—W, hardness after contact exposure to plutonium dioxide at 1800 to 2000°C, 25:24614(R) (MDC G-2033)
Re—W, hardness of, effects of composition and temperature on decreasing, 25:27209 (N-71-11662)
Re—W, hardness of, hot, 23:8104(R) (GEMP-1006)
Re—W, identification of rhenium in, using field-ion microscopes, 22:668
Re—W, impact testing as heat source capsule material, 22:36536 (SC-DR-68-295)
Re—W, ion emission from, cesium, 21:16575
Re—W, joining to tungsten by chemical vapor deposition, 22:6966
Re—W, mechanical properties of, 21:22859 (GEMP-497)
Re—W, mechanical properties of arc melt consolidated, 22:28757(R) (UCRL-13341)
Re—W, mechanical properties of arc melted and sintered, 22:49680(R) (USBM-RC-1347)
Re—W, mechanical properties of chemical vapor deposited tubes of, 23:49602(R) (UCRL-50004-67-4(Pt.1))
Re—W, mechanical properties of chemical-vapor-deposited, 21:32866 (UCRL-70340(Pt.2))
Re—W, mechanical properties of tubes of chemical-vapor-deposited, 22:7011
Re—W, mechanical properties of vacuum arc-melted, 22:47676 (N-68-24477)
Re—W, microstructure of chemical vapor deposited, factors affecting, 22:6962
Re—W, oxidation of, analytical methods for measurements of electrochemical, 22:28795
Re—W, performance as electrodes for thermionic converters, 23:6902(R) (NP-17700)
Re—W, performance evaluation as thermionic slectrode, (E), 23:22961(R) (NP-17774)
Re—W, phase composition of, at 1500 to 1900°C, effects of aluminum oxide coating on, 25:55465
Re—W, phase diagram, 23:18233
Re—W, phase formation in, effects of heat treatment on sigma, 23:1004
Re—W, phase formation in, effects of impurities on sigma, 23:51074
Re—W, phase studies at 2500°C, 22:4809
Re—W, phase studies of vapor-deposited, 21:39645 (ORNL-TM-1888)
Re—W, physical properties of, 21:22859 (GEMP-497)
Re—W, plasticity in solid solutions of, effects of composition and microstructure on super-, 24:25693
Re—W, plasticity in solid solutions of, super-, 24:25694
Re—W, preparation by chemical vapor deposition from hexafluorides, 23:8131 (ORNL-4370, pp 68-75)
Re—W, preparation by chemical vapor deposition of, 22:6962
Re—W, preparation by reduction from oxides, 22:28757(R) (UCRL-13341)
Re—W, preparation by thermochemical deposition at 600 to 900°C, 21:14801 (ORNL-P-2745)
Re—W, preparation of porous solid solution, 22:21681(P)
Re—W, preparation of powders of, by hydrogen—fluorine chemical flame process, 21:32843 (K-L-6156)
Re—W, preparation of pre-alloyed powdered, powder metallurgy method for, 24:23443(P)
Re—W, preparation of sheets of, by vapor deposition from reduced hexafluorides, 24:17231 (ORNL-4480, pp 167-87)
Re—W, processing of seamless tubes for fuel element cladding, 23:8104(R) (GEMP-1006)
Re—W, production by hydrogen reduction of fluorides in flame processes, 22:6965
Re—W, production by neutron irradiation of tungsten-186, 21:28743(P)
Re—W, properties and structure of, 24:1008
Re—W, properties and uses, review of, 23:27093
Re—W, properties for use as cobalt-60 heat source capsule material, heating tests on, 24:29441(R) (DP-1226)
Re—W, properties for use as thermocouple in reactors, 21:19796 (CONF-660511-, pp 7.2.1-5)
Re—W, properties for use in reactor components, review of, 25:2647
Re—W, properties of, 21:20469
Re—W, properties of prealloyed powders of, 23:41580
Re—W, properties of, for use as porous ionizer material, 21:4937(R) (N-66-32186)
Re—W, radiation effects on, 22:19078(R) (TID-11295(Pt.1)(5th Ed.))
Re—W, radiation effects on creep of, neutron, 21:31054(R) (BNWL-CC-1053)
Re—W, radiation effects on creep rupture properties of sheets of, fast neutron, 21:26869(R) (HW-83398)
Re—W, radiation effects on creep-rupture properties of, fast-neutron, 21:28793(R) (BNWL-94)
Re—W, radiation effects on creep-rupture properties of, at 800 to 900°C, fast-neutron, 21:28794(R) (BNWL-CC-355)
Re—W, radiation effects on electric conductivity of, at 1300°C, fast neutron, 21:26869(R) (HW-83398)
Re—W, radiation effects on electric conductivity of, effects of annealing on neutron, 21:28730(R) (GEMP-475-A)
Re—W, radiation effects on hardness and tensile properties of, effects of annealing on, fast neutron, 21:13141(R) (GEMP-63)
Re—W, radiation effects on hardness of polycrystalline, as function of temperature, fast-neutron, 21:32931(R) (BNWL-CC-883)
Re—W, radiation effects on high-temperature properties of, 21:28799(R) (HW-79345)
Re—W, radiation effects on mechanical properties of, at 580 to 1900°C, neutron, 21:28730(R) (GEMP-475-A)
Re—W, radiation effects on mechanical properties at 1090°C, neutron, 21:28795(R) (BNWL-CC-510)
Re—W, radiation effects on mechanical properties of, neutron, 21:28800 (HW-84618)
Re—W, radiation effects on refractory uranium fuel cladding of, in-pile, 24:23502(R) (BMI-1830)
Re—W, radiation effects on stability of thermocouples of, neutron, 21:13141(R) (GEMP-63)
Re—W, radiation effects on thermoelectric stability of thermocouples of, neutron, 21:28730(R) (GEMP-475-A)
Re—W, reactions with arc-cast uranium nitride at 1800°C, 23:25020(R) (BMI-1859)
Re—W, reactions with copper—uranium carbide cermets at 1700 to 1800°C, 24:25761(R) (BMI-1823)
Re—W, recovery from fabrication scrap by fluorination and flame reduction, economics of, 21:32842 (K-L-6151)
Re—W, recovery from scrap by direct fluorination and flame reduction, economic analysis of, 22:6967
Re—W, rupture of arc-cast, at 1200 to 3000°C, stress, 21:13141(R) (GEMP-63)
Re—W, shear properties of, effects of carbon on, 21:11209 (NP-16627)
Re—W, solvent properties for oxygen, 23:8125
Re—W, stability in pure nitrogen at 3500°F, 22:37775 (BNL-50082, pp 40-78)
Re—W, strength of, at 1400 to 1600°C, effects of aging on, 21:13141(R) (GEMP-63)

Re—W, stress-rupture at 1400 to 1800°C, 23:48349 (ORNL-4420, pp 173-87)
Re—W, superconducting transition temperature as function of hydrostatic pressure in, (E), 24:19860
Re—W, superconductivity of hcp, (E), 25:30433
Re—W, tensile properties of, effects of annealing and cold working on, 22:28757(R) (UCRL-13341)
Re—W, thermal capacity at 1600 to 2900°K, (E), 22:37031
Re—W, thermal conductivity at 300 to 1650°C, 21:34865(R) (GEMP-67)
Re—W, thermal conductivity of, separation of electronic and lattice contributions to, 24:39650
Re—W, thermal loading to induce boiling on wires of, parameters for critical, 25:18583
Re—W, thermal radiation at 2000 to 3000°K, 21:43613
Re—W, thermionic emission from, in vacuum and low-pressure cesium vapor, (E), 21:13181
Re—W, thermionic work functions of, 25:27911
Re—W, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Re—W, thermoelectric properties of hafnia- or thoria-insulated thermocouples at 1600 to 2600°C, 21:34865(R) (GEMP-67)
Re—W, thermoelectric stability of thermocouple elements of, 21:6336
Re—W, thermoelectron emission properties of, 22:4782
Re—W, transition temperature of superconducting, high-pressure effects on, (E), 23:27534
Re—W, tube fabrication of, use of chemical vapor deposition for, 22:44876(R) (UCRL-50004-68-1(Pt.1))
Re—W, welding of capsules of, electron-beam, 21:13127 (ORNL-3970, pp 225-30)
Re—W, welding of, effects of filler metal and methods on, 25:29786 (ORNL-4630, pp 207-25)
Re—W—ZrC, diffusion of uranium nitride in, at 1800 to 2100°C, 24:25762(R) (BMI-1839)
Re—W-base, analysis of arc-melted and powder metallurgy processed, 22:23731 (USBM-RC-1274)
Re—W-base, bend yield stress of sheet, effects of grain size and temperature on, 22:8738 (ORNL-4170, pp 80-92)
Re—W-base, carbide layers on, growth kinetics of, 25:22099
Re—W-base, compatibility of fuel capsules of, with curium oxide and plutonium oxide fuels at 1800 to 2000°C, 25:51717(R) (MDC G-3124)
Re—W-base, compatibility of fuel capsules of, with curium-244 oxide at 1250 to 1800°C, 25:8427(R) (ORNL-4639)
Re—W-base, compatibility of refractory metal-lined fuel capsules of, with molybdenum—actinide cermet fuels at 1500 to 2000°C, 25:51717(R) (MDC G-3124)
Re—W-base, compatibility with cobalt-59 fuels at 1200 to 1400°C, 25:57654(R) (DP-1279)
Re—W-base, compatibility with curium oxide at 1850°C, 24:20949(R) (ORNL-4533)
Re—W-base, compatibility with curium oxide at 1850°C, 25:23739(R) (ORNL-4663)
Re—W-base, compatibility with plutonium dioxide at 1000 to 2500°C, data tabulations on, 25:6854 (MLM-1706)
Re—W-base, compatibility with plutonium dioxide at 1800 to 2000°C, effects of impurities on, 24:46431(R) (MDC G-1700)
Re—W-base, compatibility with plutonium dioxide at 1800°C, 24:36505(R) (MDC G-1689)
Re—W-base, compatibility with plutonium oxides at 1800 to 2000°C, effects of oxygen on, 24:44655(R) (MDC G-1675)
Re—W-base, compatibility with plutonium-238 dioxide at 2000°C, 24:44780(R) (DAC-63372)
Re—W-base, compatibility with plutonium-238 dioxide, effects of stoichiometry on, 24:44787(R) (MDC G-1665)
Re—W-base, compatibility with potassium at 1250°C, 24:2877 (ORNL-4470, pp 68-75)
Re—W-base, compatibility with promethium oxide and samarium oxide at 1100°C, 24:36859 (BNWL-1389)
Re—W-base, compatibility with substoichiometric plutonium dioxide at 2000°C, 24:46431(R) (MDC G-1700)
Re—W-base, compatibility with uranium carbide fuels in liquid metals at 1600°C, 24:25762(R) (BMI-1839)
Re—W-base, corrosion and sublimation in low pressure oxygen, at 1650 to 1950°C, 24:2892 (ORNL-4470, pp 85-93)
Re—W-base, corrosion by boiling potassium at 1200°C, 23:12260(R) (ORNL-4330)
Re—W-base, corrosion by cesium and lithium at 1370 to 1870°C, 23:48339
Re—W-base, corrosion by liquid alkali metals at high temperatures, 21:4898 (BNL-10723)
Re—W-base, corrosion by potassium at 1100 to 1400°C, 24:4719
Re—W-base, corrosion by potassium at 1200°C, 23:8111 (ORNL-4370, pp 76-84)
Re—W-base, corrosion by potassium at 1250°C, 23:20469 (ORNL-4350, pp 87-139)
Re—W-base, corrosion by static liquid lithium, 21:14794
Re—W-base, creep and stress rupture of wrought, at 1200 to 2600°C, 24:10039 (GEMP-1012(Pt.1), pp 13-70)
Re—W-base, creep at 1400 to 2000°C, effects of stress on, 24:17231 (ORNL-4480, pp 167-87)
Re—W-base, creep at 1650 and 2200°C, 22:23731 (USBM-RC-1274)
Re—W-base, creep at 1700°C, effects of stress on, 24:23503(R) (BMI-1879)
Re—W-base, creep at 1800°C and 1000 psi, effects of low-pressure oxygen on, 25:8852 (ORNL-4600, pp 198-209)
Re—W-base, creep at 2800°F, 24:23461
Re—W-base, creep at high temperatures, 21:26797(R) (NASA-CR-72185)
Re—W-base, creep of arc-melted, at 1200 to 2200°C, effects of stress on, 25:8852 (ORNL-4600, pp 198-209)
Re—W-base, creep of polycrystalline, at 1500 to 1900°C, comparison with tungsten, 24:25685
Re—W-base, creep rate of arc-cast sheet, in hydrogen at 1600 to 2600°C, 22:15176 (GEMP-1002, pp 11-37)
Re—W-base, creep rupture at 1400 to 2200°C, 24:44673 (ORNL-4560, pp 186-97)
Re—W-base, creep rupture at 1650 and 2200°K, comparison of effects of consolidation by arc-melting and powder metallurgy methods on, 25:42866
Re—W-base, creep rupture at 1650 to 2200°C, 23:8131 (ORNL-4370, pp 68-75)
Re—W-base, creep rupture at 1650°C, 24:36895 (ORNL-4520, pp 227-44)
Re—W-base, creep rupture of, 22:8738 (ORNL-4170, pp 80-92)
Re—W-base, creep rupture of arc-melted and chemical vapor deposited, stress—strain curves for, 25:2673 (ORNL-4570, pp 118-23)
Re—W-base, creep rupture of deformed powder metallurgy, at 500 psi, mechanisms of, 25:58213 (ORNL-TM-3350)
Re—W-base, creep rupture of, testing for use in thermionic capsules, 25:6857 (ORNL-TM-3202)
Re—W-base, creep strength at 2800 to 3200°F, 21:31019
Re—W-base, creep-rupture in argon or hydrogen at 1600 to 2800°C, 23:48425
Re—W-base, creep-rupture of arc melted and powder metallurgy-consolidated, at 1650 to 2200°C, 23:48390 (ORNL-TM-2651)
Re—W-base, crystal structure and thermal emf of, effects of carbon on, 22:52173
Re—W-base, deformation under increasing load at 1760°C, 24:39724(R) (BMI-1884)
Re—W-base, deposition of, thermochemical, 21:13225 (ORNL-3970, pp 103-11)
Re—W-base, deposition on substrates by reduction of chlorides, coating integrity of, 24:1064 (UCRL-50004-67-1, pp 1-37)
Re—W-base, deposition on substrates, chemical vapor method for, 23:48349 (ORNL-4420, pp 173-87)
Re—W-base, development of wires of, for incandescent bulbs, 22:8761
Re—W-base, diffusion of carbon in, at 1500 to 1800°C, carbon-14 tracer studies of, 25:4763
Re—W-base, dislocation structures in polycrystalline, 22:38586
Re—W-base, dislocation structures in, at 150 to 590°K, effects of strain on, 24:32464
Re—W-base, ductility and strength of dilute, effects of rhenium content on, 23:48419
Re—W-base, ductility of welds in, effects of filler composition on, 25:49374 (ORNL-TM-3300, pp 245-62)
Re—W-base, ductility of, effects of rhenium content on, 23:48413
Re—W-base, ductility of, field ion microscopy studies of, 22:13006
Re—W-base, electric and thermal conductivity at 300 to 2200°C, 23:6685
Re—W-base, electric conductivity at 300 to 2200°C, 22:4767 (GEMP-562)
Re—W-base, electric conductivity at 80 to 1300°K, 23:20500 (ORNL-4350, pp 293-310)
Re—W-base, emittance at 100 to 1300°C, total hemispherical, 21:13097 (ORNL-3970, pp 61-80)
Re—W-base, extrusion for thermocouple sheaths, process development, 23:30005 (GEMP-1010, pp 99-147)
Re—W-base, extrusion into tubing, 22:8738 (ORNL-4170, pp 80-92)
Re—W-base, extrusion of tubes of, floating-mandrel methods for, 22:15185 (ORNL-4210)
Re—W-base, fabrication and properties of tubes of, 21:21755(R) (ANL-7302)
Re—W-base, fabrication into thermocouple sheaths for fast breeder reactors, 23:24848 (GEMP-1008, pp 115-41)
Re—W-base, fabrication of rods, sheets, and tubes of, 23:12260(R) (ORNL-4330)
Re—W-base, fabrication of sheets of, by chemical vapor deposition on molybdenum-base substrates, 23:20481 (ORNL-4350, pp 229-41)
Re—W-base, fabrication of thermocouple sheathing of, process development for, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
Re—W-base, fabrication of tubes of, by chemical vapor deposition from fluorides, 25:49380 (ORNL-TM-3416, pp 207-13)
Re—W-base, fabrication of tubes of, by extrusion, 21:11202
Re—W-base, fabrication of tubes of, development of drawing and extrusion methods for, 22:42994 (ANL-7299, pp 173-97)
Re—W-base, fabrication of tubular thermocouple sheaths of, 23:24853 (GEMP-1008, pp 253-73)
Re—W-base, fabrication of, properties affecting, 21:39617 (NP-16974)
Re—W-base, hardness at 77 to 730°K, effects of rhenium content on, 25:29871
Re—W-base, hardness of precipitates of, at 1200 to 2200°C, micro-, 24:27764
Re—W-base, hardness of, hot micro-, 23:50977(R) (BNWL-932)
Re—W-base, heat transfer from, effects of beryllia insulation on, 21:24708(R) (ALO-3634-4)
Re—W-base, internal friction of doped, at 300 to 3000°K, 25:2687
Re—W-base, mechanical properties of, 25:13682
Re—W-base, mechanical properties of chemical vapor deposited, 24:2919 (ORNL-4470, pp 63-7)
Re—W-base, mechanical properties of hardened, 24:1064 (UCRL-50004-67-1, pp 1-37)
Re—W-base, mechanical properties of powder metallurgy and arc melted billets of, 23:14315
Re—W-base, mechanical properties of wires of, effects of doping and sintering on, 24:21379
Re—W-base, mechanical properties of, effects of rhenium content on, 23:10193
Re—W-base, mechanical properties of, measurement of, 21:41578(R) (USBM-RC-1297)
Re—W-base, mechanical properties, effects of annealing on, 21:39617 (NP-16974)
Re—W-base, microscopy images of thermomechanically-treated, effects of specimen preparation on streaking in field-ion, 24:32447
Re—W-base, morphology of weld deposits of, 23:12260(R) (ORNL-4330)
Re—W-base, optical properties of solid solutions of, 21:20509
Re—W-base, oxidation of, morphology of solid solution formation by, 23:1005
Re—W-base, performance of molybdenum-clad thermocouple wires of, at 2000°C, 24:23502(R) (BMI-1830)
Re—W-base, porosity of electron-beam weld seams on samples of extruded, 22:612(R) (GEMP-69)
Re—W-base, preparation by chemical vapor deposition for mechanical properties testing, 24:2919 (ORNL-4470, pp 63-7)
Re—W-base, preparation by vapor deposition from reduced hexafluoride vapors, development of method for, 25:8852 (ORNL-4600, pp 198-209)
Re—W-base, preparation of chemical vapor deposited, by hydrogen reduction of fluorides, 25:49374 (ORNL-TM-3300, pp 245-62)
Re—W-base, preparation of mixed ultrafine powders of, methods for, 24:39611(T) (ORNL-tr-2326)
Re—W-base, preparation of sheets and tubes of, by chemical vapor deposition, 24:44673 (ORNL-4560, pp 186-97)
Re—W-base, preparation of sintered sleeves of, for tube-extrusion blanks, 24:44675 (USBM-RC-1394)
Re—W-base, preparation of tubes of, by chemical vapor deposition from gaseous fluorides, 24:25655 (UCRL-71668)
Re—W-base, preparation of, incorporating reactive metal additive for high temperature strength and reduced ductile-brittle transition temperature, 22:47681(P)
Re—W-base, production by hexafluoride reduction and vapor deposition, 25:2673 (ORNL-4570, pp 118-23)
Re—W-base, production by hydrogen reduction of hexafluorides and vapor deposition, 24:4736 (ORNL-4440, pp 145-54)
Re—W-base, production by reduction of mixed hexafluorides of, 23:3041(P)
Re—W-base, production by vapor deposition from hydrogen reduction of fluorides, 23:24863 (ORNL-4390, pp 159-76)
Re—W-base, production of high-purity, by electron-beam-furnace melting, 21:30981 (ORNL-P-3133)
Re—W-base, production of high-purity, methods for, 24:10013 (GEMP-1012(Pt.1), pp 263-382)
Re—W-base, production of precipitates of, by hydrogen reduction of mixed hexafluorides, 24:27764
Re—W-base, production quality control for high-purity, flowsheets for, 23:24848 (GEMP-1008, pp 115-41)
Re—W-base, properties for use in curium-244 oxide fuel capsules, 25:2643 (ORNL-4570, pp 106-11)
Re—W-base, properties for use in space Rankine cycles, 23:18190
Re—W-base, properties of vapor deposited, for use as thermionic emitter, 24:6179 (TEE-3874-1)
Re—W-base, radiation effects on compatibility with plutonium dioxide—uranium dioxide fuel at 2100 to 2300°C, in-pile, 24:14893 (GEMP-1013, pp 339-78)
Re—W-base, radiation effects on creep-rupture properties of, fast neutron, 22:19603
Re—W-base, radiation effects on electric conductivity of recrystallized, fast and thermal neutron, 22:19578 (BNWL-455, Paper 10.1-40)
Re—W-base, radiation effects on electric conductivity of thermocouple wires of, 23:8148 (BMI-X-10246)
Re—W-base, radiation effects on hot microhardness of, in-pile, 24:8159 (GEMP-716)
Re—W-base, radiation effects on mechanical properties of, neutron, 21:25617 (BNWL-SA-374)
Re—W-base, radiation effects on polycrystalline, high-temperature recovery from fast and thermal neutron, 24:12443
Re—W-base, radiation effects on, in-reactor, 21:9198 (GEMP-61, pp 33-54)
Re—W-base, reactions with cobalt in air at high temperatures, 25:18591(R) (DP-1254)
Re—W-base, reactions with cobalt-59 wafers at 1000°C, 25:46592(R) (DP-1272)
Re—W-base, reactions with graphite at 1500 to 2200°C, 23:48479
Re—W-base, reactions with plutonium oxide—thorium oxide and thorium oxide ceramics at 2215 to 2290°C of, 22:645 (AECL-2768)
Re—W-base, reactions with plutonium oxide—uranium oxide fuels at 1700 to 1800°C, 24:1062(R) (BMI-1870)
Re—W-base, reactions with refractory oxide insulator materials at 2300°C, 23:36024
Re—W-base, reactions with uranium dioxide thermionic fuel at high temperatures, 23:8317
Re—W-base, reactions with uranium nitride at 1600 to 1800°C, 23:36171(R) (BMI-1864)
Re—W-base, reactions with uranium nitride at 2000°C, 24:1062(R) (BMI-1870)
Re—W-base, rupture at 1400 to 2200°C, mechanism of stress, 24:4736 (ORNL-4440, pp 145-54)
Re—W-base, stress rupture behavior at 1600 to 2800°C, 23:985 (GEMP-636)
Re—W-base, stress rupture of arc-cast sheet, in hydrogen at 1600 to 2600°C, 22:15176 (GEMP-1002, pp 11-37)
Re—W-base, stress rupture of transverse welds in, 24:36922 (ORNL-4520, pp 211-26)
Re—W-base, stress rupture parameters for, calculations on, 24:44794

- Re—W-base, stress-rupture of, 23:12260(R) (ORNL-4330)
- Re—W-base, tensile creep at 1760°C and 200 to 1400 psi, 25:6889 (BMI-1886, Sect. B)
- Re—W-base, tensile properties at 3630°F, 23:987 (N-68-30605)
- Re—W-base, tensile properties at 78 to 3630°F, 23:14315
- Re—W-base, tensile properties at 78 to 3630°F of dilute, effects of rhenium content on, 23:18233
- Re—W-base, tensile properties of arc melted, at 25 to 2500°C, 22:23731 (USBM-RC-1274)
- Re—W-base, tensile properties of dilute single-crystal, 23:48412
- Re—W-base, tensile properties of unworked, effects of grain size on, 22:41039
- Re—W-base, testing at 1200 to 1400°C for use in fuel capsules, 24:36503(R) (DP-1237)
- Re—W-base, thermal conductivity and emittance at 1500 to 2800°K, 24:8104
- Re—W-base, thermal conductivity and total emittance at 1500 to 3000°K, 24:34874 (BMBW-FBK-70-1, pp 451-74)
- Re—W-base, thermal conductivity as function of temperature, 22:15176 (GEMP-1002, pp 11-37)
- Re—W-base, thermal conductivity at 0 to 1500°C, 21:13097 (ORNL-3970, pp 61-80)
- Re—W-base, thermal conductivity at 300 to 2200°C, 22:4767 (GEMP-562)
- Re—W-base, thermal conductivity at 300 to 2200°C, electronic, 23:6685
- Re—W-base, thermal conductivity at 80 to 1300°K, 23:20500 (ORNL-4350, pp 293-310)
- Re—W-base, thermal diffusivity at 300 to 1000°C in argon, 22:15176 (GEMP-1002, pp 11-37)
- Re—W-base, thermal stability of foils of, separated by thoria or yttria layers, 21:41111
- Re—W-base, thermionic properties of (100) faces of single-crystal, 24:3463
- Re—W-base, thermophysical properties at 1500 to 3000°K, calculations of specific heat using, 21:41600
- Re—W-base, thermophysical properties of, at high temperatures, 21:3502
- Re—W-base, weld ductility of, 21:16574(R) (WANL-PR(P)-011)
- Re—W-base, weldability of arc cast, effects of high preheat temperatures on, 25:27178 (N-71-10353)
- Re—W-base, welding of arc cast, effects of preheat temperatures on electron beam and gas tungsten-arc, 24:12379
- Re—W-base, welding of capsules of, for curium-244- and strontium-90-enriched heat sources, remote electron-beam method for, 24:23440
- Re—W-base, welding of cobalt-60 heat source fuel capsules of, tungsten inert gas method for, 24:50518(R) (DP-1247)
- Re—W-base, welding of sheet, plate, and tubing, 22:8738 (ORNL-4170, pp 80-92)
- Re—W-base, welding of, development of improved methods for, 24:36503(R) (DP-1237)
- Re—W-base, welding of, development of methods for, 24:44673 (ORNL-4560, pp 186-97)
- Re—W-base, welding to stainless steel using T1G methods, 23:24853 (GEMP-1008, pp 253-73)
- Re—W-base, work function at 1800°C, vacuum, 24:10037 (GA-9495)
- Re—YB_6, physical properties and thermal emissivity of, 24:1071
- Re—YB_6, preparation by powder metallurgy, 24:1071
- Re—Zr, crystal structure of $ZrRe_2$, 24:46755
- Re—Zr, properties and structure of, 24:1008
- Re—Zr, superconductivity of $ZrRe_2$, 24:46755
- Re—Zr, thermal stability of intermetallic compounds of, 23:30050 (UCRL-18727)
- Re—Zr, thermodynamic properties of, 24:44720
- Re—Zr, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
- Re—Zr-base, electronic properties from low-temperature specific heat measurements, 21:13157 (ORNL-3970, pp 25-32)
- Re—ZrB_2, phase studies of, 25:32836
- Re—ZrC, hardness and electric conductivity of, effects of composition on, 23:24932
- Re—ZrC, phase diagrams of, 23:10287
- Re-base—Tb, work function for, (E), 22:34761
- Re-base—Tm, work function for, (E), 22:34761
- Re-base—W, production by electrolytic deposition from aqueous solutions, 23:48378
- Re-base—Y, work function for, (E), 22:34761
- Re-W-base, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
- Rh—W, dislocation structure in, effects of stress on, 21:36864 (NASA-TN-D-4094)

Rhenium Ammonium Chlorides
  - see Ammonium Rhenium Chlorides

RHENIUM BORIDES
- crystal structure and lattice constants of, 22:45789
- formation of ReB_2 by reactions of boron nitride and rhenium, kinetics of, 23:34069
- thermodynamic properties of, 24:25784

RHENIUM BROMIDES
- $ReBr_3$—$ReCl_3$, mass spectra of, 21:25826

RHENIUM CARBIDES
- critical temperature of superconducting W_3Re_2C, (E), 21:37350 (UCRL-17550)
- densification of homogeneous phases of, by hot pressing, activation energy for, 25:32698

RHENIUM CHLORIDES
  - see also Ammonium Rhenium Chlorides
  - see also Potassium Rhenium Chlorides
- chemical bonding in Re_2Cl_{10}, ir spectral and vibrational studies on, 23:43289 (IS-T-292)
- complexes containing butyrates, preparation and structure of, 22:27517(R) (MIT-1965-63)
- hydrolysis by sodium hydroxide solutions, enthalpy of, 23:106 (ORNL-4306, pp 131-73)
- mass spectra of, 21:25826
- reactions with uranyl chloride, mechanisms of, 25:18384
- $ReBr_3$—$ReCl_3$, mass spectra of, 21:25826
- $ReCl_3$—$TcCl_3$, mass spectra of, 21:25826
- separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

RHENIUM COUPLES
- thermoelectric properties of, analysis for ultrasonic thermometry from 2000 to 5000°F of, 22:14139(R) (NYO-3906-1)
- Mo/Re, reactions with Hastelloy X, rhenium, and 304L stainless steel at 1100°C, 21:32858 (BNWL-421)
- Re/W, calibration of high-temperature thermocouples of, 23:11925
- Re/W, diffusion at 1200 to 1500°C between, 23:36063 (BNWL-1071)
- Re/W, diffusion at 1600 to 2100°C in, testing for thermionic emitter systems, 23:48478
- Re/W, electron emission of, at 1600 to 1800°C, effects of interdiffusion on, 23:48478
- Re/W, fabrication of SEFOR hexagonal channel plutonium oxide (PuO_2)—uranium oxide (UO_2) pellet-type fuel element, description of, 22:44889(R) (GEAP-5629)
- Re/W, performance at 80 to 500°F, 21:30239 (NP-16767)
- Re/W, performance of thermocouples of, in irradiation capsules, 24:5967 (GA-9653)
- Re/W, radiation effects on calibration of high-temperature thermocouples of, neutron, 23:11925
- Re/W, reactions with Hastelloy C and X at 700 to 1100°C, 21:32858 (BNWL-421)
- Re/W, reactions with Hastelloy X, platinum, rhenium, 304L stainless steel, and tantalum at 1100°C, 21:32858 (BNWL-421)
- Re/W, stability of VR5/20, in vacuum at high temperatures, 22:52176
- Re/W, testing of thermocouples of, at 2300°C for 1000 hours, 23:35565
- Re—W/Re—W, emf vs temperature tables at 0 to 2400°C for thermocouples of, 24:44361

RHENIUM, DICYCLOPENTADIENYLDIHYDRO-
- radiation effects on, recoil reactions in neutron, 23:35137(R) (PRNC-130)

RHENIUM FLUORIDES
- electric conductivity in anhydrous hydrogen fluoride, 21:35950
- electron reactions at 0 to 10 eV with, mechanisms of negative-ion formation in, 24:47032
- reactions with hydrazinium fluoride, compound formation in, 23:26220 (NIJS-R-551)
- reduction by hydrogen for rhenium deposition and fabrication, 22:10976
- reduction by hydrogen in mixtures with tungsten fluoride for deposition on uranium dioxide spheres, 22:7044
- reduction by hydrogen to produce tubes by vapor deposition, 24:4753
- reduction of gaseous, for vapor deposition of rhenium on expendable microsphere substrates to form microballoons, 23:41560 (BNWL-1100)
- solubility in hydrogen fluoride, 21:35950
- spectra in anhydrous hydrogen fluoride, Raman, 21:35950
- spectra of vapors of, Raman, 24:38878
- vapor pressure—temperature data for, 25:34602 (GAT-649)
- ReF_6—WF_6, reduction by hydrogen, 21:14808
- ReF_6—WF_6, reduction by hydrogen for preparation of rhenium—tungsten tubes by vapor deposition, 24:25655 (UCRL-71668)
- ReF_6—WF_6, reduction by hydrogen for preparation of rhenium—tungsten-base alloy, 24:17231 (ORNL-4480, pp 167-87)
- ReF_6—WF_6, reduction by hydrogen for production of rhenium—tungsten alloys by vapor deposition, 23:24863 (ORNL-4390, pp 159-76)
- ReF_6—WF_6, reduction by hydrogen to produce rhenium—tungsten alloys by vapor deposition, 24:4736 (ORNL-4440, pp 145-54)
- ReF_6—WF_6, reduction for production of rhenium—tungsten alloys by vapor deposition, development of method for, 25:8852 (ORNL-4600, pp 198-209)
- ReF_6—WF_6, reduction for production of rhenium—tungsten alloys, 23:3041(P)
- ReF_6—WF_6, reduction for vapor deposition of rhenium—tungsten alloy shapes from, 21:34871 (UCRL-70340(Pt.1))
- ReF_6—WF_6, reduction to metal by reactions with hydrogen, vapor-deposition of tubes by, 23:24814 (UCRL-50603)
- ReF_6—WF_6, reduction with hydrogen, for coating substrate with tungsten—rhenium alloy, 21:39605(P)

RHENIUM HALIDES
- book: Halides of the Transition Elements, Halides of the Second and Third Row Transition Metals, 23:9399
- complexes containing benzoates, preparation and structure of, 22:27517(R) (MIT-1965-63)
- spectra of cluster, infrared, 22:27517(R) (MIT-1965-63)
- structure of, ir spectral studies on, 24:16485 (IS-2100, Sect. C)

RHENIUM IONS
- chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
- radii in fluorides and oxides, 24:188

RHENIUM ISOTOPES
- chemical state of recoil, from proton reactions (p,pxn) with rhenium compounds, 24:2258
- chemical states in proton-irradiated rhenium salts, 24:38947
- decay schemes for, tables on, 23:33331 (BNL-13595)
- energy levels from neutron inelastic scattering at 0.3 to 1.5 MeV, (E), 22:27109
- gamma spectra of neutron-deficient, (E), 21:2754
- neutron capture cross sections at 30 to 170 keV, (E), 21:13895
- preparation of carrier-free, by electrodeposition, 25:37445
- production of carrier-free, by deuteron irradiation of tungsten, 22:47207
- production of radioactive carrier-free, by proton irradiation of tungsten, 23:2360
- production of short-lived radioactive, by proton bombardment of ammonium rhenate or osmium, 25:57480 (JINR-P6-5955)
- production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
- reactions of recoil, in irradiated perrhenates and hexachlororhenates, 23:47576
- reactions of recoil, in thermal annealing of proton-irradiated crystals of ammonium perrhenate, 24:244
- separation from other products from spallation of gold by migration in quartz tube with temperature gradient, 24:2285
- separation from tantalum and tungsten isotopes by coprecipitation with iron hydroxide, effects of pH on, 22:45168

RHENIUM ISOTOPES Re-175
- half-life, (E), 22:9880
- production and identification by holmium-165 (O-16,6n) and terbium-159 (Ne-22,6n) reactions, (E), 21:4275 (JINR-P-2910)
- production by holmium-165(O-16,6n) and terbium-159(Ne-22,6n) reactions, (E), 22:9880

RHENIUM ISOTOPES Re-176
- beta and electron-capture decay of, half-life, spectra, log ft, and Q of, (E), 25:5733
- half-life, (E), 22:9880
- half-life, (E), 22:27182
- production and identification by holmium-165 (O-16,5n) and terbium-159 (Ne-22,5n) reactions, (E), 21:4275 (JINR-P-2910)
- production by holmium-165(O-16,5n) and terbium-159(Ne-22,5n) reactions, (E), 22:9880

RHENIUM ISOTOPES Re-177
- beta and electron-capture decay of, half-life, spectra, log ft, and Q of, (E), 25:5733
- beta decay of, half-life for, (E), 23:11018
- half-life, (E), 22:27182

RHENIUM ISOTOPES Re-178
- beta and electron-capture decay of, γ spectra for, (E), 22:27182
- beta and electron-capture decay of, half-life, spectra, log ft, and Q of, (E), 25:5733
- beta decay of, half-life for, (E), 23:11018
- electron-capture decay of, conversion-electron spectra for, (E), 22:35356
- electron-capture decay of, internal conversion electron spectra for, (E), 23:7287

RHENIUM ISOTOPES Re-179
- decay of, half life and spectra for, (E), 21:10040
- electron-capture decay of, half-life and gamma energies and intensities from, (E), 25:28348 (JINR-P6-5617)
- electron-capture decay of, half-life and γ spectra, (E), 22:30041
- electron-capture decay of, half-life for, (E), 23:11018
- electron-capture decay of, internal conversion electron spectra for, (E), 23:7287
- electron-capture decay scheme for, (E), 25:28386

RHENIUM ISOTOPES Re-180
- beta and electron decay of, β and γ spectra and log-ft values for, (E), 22:27181
- beta and electron-capture decay of, (E), 22:3725
- beta and electron-capture decay of, β and γ spectra for, (E), 22:27182
- beta and electron-capture decay of, conversion-electron spectra from, (E), 22:35356
- beta and electron-capture decay of, gamma spectra and branching ratios from, (E/T), 25:14984 (NP-18536)
- beta and electron-capture decay of, γ spectra from, (E), 22:30041
- beta and electron-capture decay of, half-life and gamma energies and intensities from, (E), 25:28348 (JINR-P6-5617)
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, beta and gamma spectra from, (E), 21:38366
- decay of, half life and spectra for, (E), 21:10040
- electron-capture decay of, internal conversion electron spectra for, (E), 23:7287
- energy levels from decay of osmium-180, spin—parity assignments for, (E), 23:7287
- energy levels from osmium-180 electron-capture decay, spin—parity assignments and lifetimes for, (E/T), 25:14984 (NP-18536)
- energy-level spins and transitions from osmium-180 decay, (E), 22:42054
- energy-level transitions from osmium-180 decay, conversion coefficient for, (E), 22:35356
- energy-level transitions from osmium-180 electron-capture decay, multipolarities for, (E/T), 25:14984 (NP-18536)

RHENIUM ISOTOPES Re-181
- electron-capture decay of, γ singles and coincidence spectra from, (E), 25:15058
- electron-capture decay of, γ spectra from, (E), 21:46717(R) (COO-1672-5)
- electron-capture decay of, half-life and gamma energies and intensities from, (E), 25:28348 (JINR-P6-5617)
- energy level at 1877 keV, half-life and spin-parity assignment of isomeric, (E), 24:1826
- energy level at 262.9 keV from decay of osmium-181, lifetime for, (E), 23:15455
- energy levels from decay of isomeric osmium-181, spins and parities of, (E), 21:46717(R) (COO-1672-5)
- energy levels from decay of osmium-181, spin—parity assignments for, (E), 23:7287
- energy levels from isomeric transition in, spin-parity assignment for three-quasiparticle, (E), 24:1826
- energy levels from osmium-181 beta decay, spin—parity assignments for, (E/T), 25:14984 (NP-18536)
- energy levels from osmium-181 decay, spin—parity assignments for, (E), 23:44903

- energy levels in rotational bands, (E), 23:23723
- energy levels in rotational bands, from tantalum-181 (α, 4n) reactions, (E), 22:27164
- energy levels of, calculation using Woods—Saxon potential for nonrotational, (T), 24:8900
- energy levels of, Coriolis correction to decoupling parameters of rotational, (T), 24:22235
- energy-level transitions from osmium-181 beta decay, intensities, K- and L-conversion coefficients, and multipolarities for, (E/T), 25:14984 (NP-18536)
- energy-level transitions from osmium-181 decay, conversion coefficients and multipolarities for, (E), 23:15429(R) (COO-1672-10)
- energy-level transitions from osmium-181 decay, conversion coefficients and multipolarities of, (E), 23:15455
- energy-level transitions from osmium-181 decay, conversion coefficients for, (E), 23:17103(R) (ANL-7481)
- energy-level transitions from osmium-181 decay, conversion coefficients and multipolarities of, (E), 22:35356
- energy-level transitions from osmium-181 decay, conversion coefficients and multipolarities of, (E), 22:27182
- energy-level transitions from osmium-181 decay, internal conversion coefficients and multipolarities for, (E), 23:44903

RHENIUM ISOTOPES Re-182

- beta and electron-capture decay of isomeric, γ and conversion electron singles and coincidence spectra from, 24:3943
- beta and electron-capture decay of, γ spectra from, (E), 22:30041
- book: Isobaric Nuclei with Mass Number A = 182, 23:8991
- decay of, gamma spectra and log ft value of, (E), 24:11010
- energy levels at 235.7 and 263.2 keV, lifetimes for, (E), 23:25902 (JINR-E6-4311)
- energy levels from decay of osmium-182, spin—parity assignments for, (E), 23:7287
- energy levels from osmium-182 decay, (E), 25:25752
- energy levels from osmium-182 decay, spin—parity assignments for, (E), 23:44903
- energy levels from osmium-182 decay, spin-parity assignments and multiple mixing ratios for, (E), 22:35292 (ORNL-4217, pp 1-81)
- energy levels in rotational bands, (E), 23:23723
- energy levels in rotational bands, from tantalum-181 (α, 3n) reactions, (E), 22:27164
- energy levels of, lifetime measurements for, (E), 24:43225
- energy-level transitions from electron-capture decay of osmium-182, omega-forbidden, 23:49425
- energy-level transitions from osmium-182 decay, conversion coefficients for, (E), 23:15429(R) (COO-1672-10)
- energy-level transitions from osmium-182 decay, internal conversion coefficients and multipolarities for, (E), 23:44903
- energy-level transitions from osmium-182 decay, internal conversion coefficients and multipolarities for, (E), 24:18419
- nuclear spin and parity of isomeric, (E), 24:3943

RHENIUM ISOTOPES Re-183

- decay of, tungsten-183 energy-level lifetimes from, (E), 21:4289
- electron-capture decay of, Q-value and log-ft values for, (E), 23:23722
- energy level at 496 keV, g-factor and half-life for, (E), 22:46785
- energy level at 496 keV, lifetime of, (E), 22:48202(R) (BMwF-FBK-68-01)
- energy level scheme from osmium-183 decay, (E), 25:25751
- energy levels from (α,t) and (He-3,d) reactions, Nilsson assignments for, (E), 25:34126
- energy levels from decay of osmium-183, spin—parity assignments for, (E), 23:7287
- energy levels from tantalum-181 (α,2nγ) reactions at 19.8 to 38 MeV, (E), 22:16036
- energy levels from tungsten-182 (α,t) and (He-3,d) reactions, spectroscopic factors and band structure of, (E), 25:23042
- energy levels in rotational bands, (E), 23:23723
- energy levels in rotational bands, from tantalum-181 (α, 2n) reactions, (E), 22:27164
- energy levels of, calculation using single-particle eigenfunctions in deformed potential well, 24:47659
- energy levels of, calculation using Woods—Saxon potential for nonrotational, (T), 24:8900
- energy levels of, Coriolis correction to decoupling parameters of rotational, (T), 24:22235
- energy levels of, K = 1/2 rotational, (T), 22:20664
- energy levels of, spin—parity assignments from rigid-nonaxial-rotator model, (T), 25:7884 (ITF-70-44)
- energy-level transitions from ground-state and isomeric osmium-183 electron-capture decay, energies and gamma intensities for, (E), 24:30765 (UJV-2347-F)
- isomeric transition in, half-life for, (E), 23:23706
- nuclear properties in shell and unified models, (E/T), 22:1624

RHENIUM ISOTOPES Re-184

- conversion-electron spectra above 750 keV, (E), 21:33972
- deuteron reactions (d,t) at 12 MeV, angular distributions for, (E), 22:42066
- electron-capture decay of ground-state and isomeric, γ singles and coincidence spectra from, (E), 24:28798
- electron-capture decay of ground-state and isomeric, γ spectra from, (E), 25:48035 (IN-1407, pp 97-154)
- electron-capture decay of isomeric, γ spectra for, (E), 23:47018
- electron-capture decay of, γ spectra for, (E), 23:44849(R) (IN-1130)

RHENIUM ISOTOPES Re-185

- abundance in solar wind, 24:25913
- abundance ratios to rhenium-187 in natural rhenium, determination of, by thermal ionization source technique, 22:12231
- alpha fission at 35 and 41 MeV, cross sections and mass distributions for, (E), 22:44706
- alpha fission at 41 MeV, mass distributions and cross sections for, (E), 21:13876
- alpha fission to 40 MeV, angular anisotropy of, (E), 23:11009
- alpha inelastic scattering at 4 MeV with Coulomb excitation, γ and conversion electron intensities from, (E), 24:3936
- beta transitions in, β-γ directional correlations for anomalous first-forbidden, (E), 22:3740
- deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 22:42066
- deuteron reactions (d,p) at 12 MeV, proton spectra for, (E), 23:31010
- energy level at 368.1 keV from tungsten-186 (d,3n) reaction, energy assignment and half-life for, (E), 25:28287 (ANU-P-518)
- energy level at 879 keV from osmium-185 decay, spin assignment for, (E), 24:35864
- energy level from alpha inelastic scattering, transition probability of first-excited, (E), 24:3936
- energy level from tungsten-186 (d,3n) reactions, lifetime of $9/2^-$, (E), 25:53763
- energy level transitions in, probability ratios for electromagnetic, (E/T), 21:1096
- energy levels from (α,t) and (He-3,d) reactions, Nilsson assignments for, (E), 25:34126
- energy levels from decay of osmium-185, spin—parity assignments for, (E), 23:7287
- energy levels from electron-capture decay of osmium-185, (E), 21:31808
- energy levels from gamma—gamma angular correlation measurements, (E), 24:43350
- energy levels from inelastic scattering of alpha particles and deuterons at 16.6 and 12.1 MeV respectively, collective, (E), 22:1694
- energy levels from neutron inelastic scattering at 0.3 to 1.5 MeV, (E), 22:5810 (ANL-7363)
- energy levels from osmium-185 decay, (E), 25:50742
- energy levels from osmium-185 decay, decoupling parameter for $^1/_2{}^+$ [411], (E/T), 25:5741
- energy levels from osmium-185 decay, spin assignments for, (E), 24:38238
- energy levels from osmium-185 decay, spin-parity assignments for, (E), 25:3704
- energy levels from osmium-185 electron-capture decay, (E), 21:33872(R) (ORNL-4122)
- energy levels from osmium-185 electron-capture decay, spin—parity assignments for, (E), 25:5741
- energy levels from tungsten-184 (α,t) and (He-3,d) reactions, spectroscopic factors and band structure of, (E), 25:23042
- energy levels of, calculation using Woods—Saxon potential for nonrotational, (T), 24:8900
- energy levels of, K = 1/2 rotational, (T), 22:20664
- energy levels of, spin—parity assignments from rigid-nonaxial-rotator model, (T), 25:7884 (ITF-70-44)
- energy-level properties from gamma resonance fluorescence, (E), 21:12025(R) (NYO-3525-12)
- energy-level transitions from osmium-185 decay, intensities, multipolarities, and internal conversion coefficients for, (E), 25:5741
- energy-level transitions from osmium-185 decay, internal conversion coefficients for, (E), 25:3704
- energy-level transitions from osmium-185 decay, multipolarities for, (E), 23:47028
- energy-level transitions in, intensities of, (E), 25:18772
- fluorine-19 reactions with, production of polonium isotopes by, (E), 21:38335
- gyromagnetic ratio of, calculation of collective, (T), 22:20684
- helium-3 reactions (He-3,2p) with, cross section for, (E), 23:28307
- helium-3 reactions (He-3,xnyp) at 10 to 33 MeV, cross sections for, (E), 22:53179
- hyperfine structure, measurement with double Fabry—Perot spectrometer, 22:9101
- mass of, (E), 24:38266
- neutron absorption resonance integrals for, (E), 21:38309
- neutron capture and total cross sections at 0.01 to 10 eV, (E), 22:3689(R) (GA-7820)
- neutron capture by, conversion electron spectra from thermal, (E), 23:17103(R) (ANL-7481)
- neutron capture by, γ spectra for fast and thermal, (E), 23:31010
- neutron capture by, γ spectra for, (E), 23:28281
- neutron capture by, γ spectra from resonance and thermal, (E), 22:20576 (ORNL-TM-2159)
- neutron capture by, rhenium-186 energy-level transitions from thermal, (E), 21:2751
- neutron capture by, rhenium-186 low-lying levels from conversion-electron spectra from thermal, (E), 21:25534
- neutron capture cross section at 0.1 to 30 keV, (E), 22:3689(R) (GA-7820)
- neutron capture cross sections and resonance parameters at 0.01 eV to 30 keV, (E), 22:30014
- neutron capture cross sections and resonance parameters, (E), 21:25518 (WASH-1071)
- neutron cross sections and resonance parameters for, data evaluation for ENDF/B library, 22:20568 (GEMP-587)
- neutron reactions (n,2n) with, cross section for fast-reactor, (E), 24:49839
- neutron reactions (n,γ) and (n,2n) with, cross sections for, (E), 21:17379
- neutron reactions (n,γ) with, in mixed crystals, chemical effects from, 21:45157
- neutron resonance absorption by resonance interference in, (E), 21:15599
- neutron resonance parameters at 0 to 100 eV, (E), 22:20578 (WASH-1079)
- neutron resonance parameters at 1 to 100 eV, (E), 22:3689(R) (GA-7820)
- neutron resonance parameters at 2 to 99 eV, (E), 21:40432 (WASH-1074)
- neutron resonances of, spin assignments for, (E), 21:23466
- neutron scattering resonance parameters and spins, (E), 21:25561
- neutron total cross section at 0.01 to 100 eV, (E), 22:30014
- nuclear acoustic resonance in rhenium single crystal, Knight shift and zero-field splitting from, (E), 24:45375
- nuclear electric quadrupole moment of, (E), 23:40038
- nuclear magnetic resonance in $Be_{21}Re$, 24:37571
- nuclear magnetic resonance in rhenium trioxide, 23:10721
- nuclear quadrupole moment, 21:3664
- preparation of radiation targets of, use of isotope separator for, 21:40330
- proton reactions (p,nγ) at 12 MeV, γ spectra from, (E), 25:12514(R) (COO-1672-21)
- separation from natural rhenium compounds, process for, 24:19165(R) (ORNL-TM-2889)
- x-ray spectra of μ-mesic, (E), 21:23534(R) (ANL-7246)

RHENIUM ISOTOPES Re-186

- beta decay of oriented angular distributions of electrons and gamma rays from, (E), 24:30763 (UCRL-19533)
- beta decay of oriented, angular distribution of beta particles and γ rays from, (E), 25:23056
- beta decay of polarized, β and γ-ray angular distributions from, (E), 25:7854 (UCRL-19530, pp 221-37)
- beta decay of polarized, in iron at low temperatures, β^- and γ angular distributions from, (E), 25:17889
- beta decay of, β spectra and nuclear matrix elements for, (E), 23:5906
- beta decay of, β spectrum and matrix elements for, (E), 24:49902
- beta decay of, β—γ angular correlations and matrix elements for, (E), 24:43367
- beta decay of, β—γ angular correlations for, (E), 24:24590
- beta decay of, β-γ angular correlations and matrix elements for nonunique first-forbidden, (E), 25:56776
- beta decay of, β-γ coincidence spectra for once-forbidden, (E), 24:22136 (CEA-R-3923)
- beta decay of, calculation of observables for, 24:47675
- beta decay of, first-forbidden, (T), 24:45831
- beta decay of, form factor and beta spectrum for $1^- \rightarrow 2^+$ transition in, (E), 21:40428 (NP-16839)
- beta decay of, nuclear matrix elements for, (T), 25:53871
- beta decay of, transverse polarization of inner conversion electrons in, (E), 21:31822
- beta spectra of, shape factors for, (E), 23:44942
- beta transition rates for, testing Davydov-Filippov and Bohr-Mottelson models for, (E), 22:42059
- beta transitions in, CVC theory with Woods—Saxon superfluid corrections for first-forbidden, (T), 22:53178
- beta transitions in, matrix-element calculations using Nilsson model for first-forbidden, (T), 22:3781
- beta transitions in, shape factors for $1^- \rightarrow 0^+$, (E), 23:23713
- beta transitions in, spectra for $1^- \rightarrow 2^+$, (E), 22:46812
- beta-gamma directional correlation measurements on, (E), 22:35309
- content in commercial preparations of metastable technetium-99, 24:4325
- decay of, coincidence counting and gamma spectrometric measurements on, 21:12285(R) (ORNL-4039)
- decay of, gamma transitions in, (E), 21:21533
- decay of, osmium-186 energy-level transitions from, (E), 21:15564 (CONF-660221-, pp 247-50)
- determination of mixtures of molybdenum-99 and, in radioactive materials, radiometric, 23:26192
- distribution of recoil atoms of, in neutron-irradiated ammonium perrhenate and rhenium oxides, effects of annealing on, 23:47567
- electron-capture decay of, conversion electron spectra for, (E), 23:31010
- electron-capture decay of, γ-K x-ray angular correlations from, (E), 25:50777
- electron-capture decay of, K x-ray and gamma-ray angular correlations and coincidence spectra from, (E), 25:25732
- energy level transitions in, (E), 21:5593
- energy levels from conversion-electron spectra following rhenium-185 (n,γ) reactions, (E), 21:25534
- energy levels from rhenium-184 (d,t) and rhenium-185 (d,p) reactions, (E), 22:42066
- energy levels of, decay scheme and spin—parity assignments for, (E), 23:31010
- energy-level transitions from rhenium-185 neutron capture, (E), 23:28281
- energy-level transitions from thermal-neutron capture by rhenium-185, (E), 21:2751
- internal conversion electron spectra for, (E), 23:17103(R) (ANL-7481)
- nuclear quadrupole moment, 21:3664
- production in mixed crystals by photon reactions (γ,n) with rhenium-187, 24:9409
- reactions of recoil, in neutron-irradiated potassium rhenium bromide—potassium tin chloride mixed crystals, 23:21730(T) (NP-tr-1751)
- retention in ammonium perrhenate during Szilard—Chalmers reactions, effects of ammonia and water on, 23:49821
- search for 1-hour activity of, 23:23727
- use as tracer for measurement of density of steam—water mixtures flowing in boiler tubes, 22:14725
- use of tracer for measuring steam quality in boiler tubes, 25:57674
- yield from nuclear explosions, effects of, on radiation dose to man, 22:23511 (UCRL-70788)

yield of recoil, in neutron-irradiated mixed crystals of potassium rhenium bromide and potassium rhenium chloride, 23:2358
RHENIUM ISOTOPES Re-187
abundance in solar wind, 24:25913
abundance in solar wind, (T), 24:4983
abundance ratio to rhenium-185 in natural rhenium, determination of, by thermal ionization source technique, 22:12231
abundance relative to osmium-187 in rhenium-bearing ores, 25:21189
alpha fission at 35 and 41 MeV, cross sections and mass distributions for, (E), 22:44706
alpha fission at 41 MeV, mass distributions and cross sections for, (E), 21:13876
alpha fission to 40 MeV, angular anisotropy of, (E), 23:11009
alpha inelastic scattering at 4 MeV with Coulomb excitation, γ and conversion electron intensities from, (E), 24:3936
beta decay of, spectrographic determination of osmium from, 22:16458
beta particles from decay of, absorption in helium and aluminum, 23:51366
beta spectra of, Kurie plot for, (E), 21:33992
content in sulfidic ore deposits, use in age estimation, 22:6475
deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 22:42066
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomeric yield ratios of, (E), 21:23519
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomer yield ratios for, (E/T), 21:12024(R) (NYO-2771-19)
deuteron reactions (d,p) with, production of isomeric rhenium-188 in, (E), 21:7760
deuteron reactions (d,t) at 12 MeV, triton spectra for, (E), 23:31010
energy level at 206 keV from tungsten-187 decay, spin, g-factor, and half-life of, (E), 25:25740
energy level at 206 keV, half-life for, (E), 23:37223
energy level at 618 keV from tungsten-187 decay, lifetime of, (E), 24:6904
energy level from alpha inelastic scattering, transition probability of first-excited, (E), 24:3936
energy level transitions in, probability ratios for electromagnetic, (E/T), 21:1096
energy levels from (α,t) and (He-3,d) reactions, Nilsson assignments for, (E), 25:34126
energy levels from beta decay of tungsten-187, spin—parity assignments and transition multipolarities for, (E), 23:1905
energy levels from inelastic scattering of alpha particles and deuterons at 16.6 and 12.1 MeV respectively, collective, (E), 22:1694
energy levels from neutron inelastic scattering at 0.3 to 1.5 MeV, (E), 22:5810 (ANL-7363)
energy levels from tungsten-186 (α,t) and (He-3,d) reactions, spectroscopic factors and band structure of, (E), 25:23042
energy levels from tungsten-187 beta decay, (E), 21:29986
energy levels from tungsten-187 beta decay, (E), 24:40623
energy levels from tungsten-187 decay, (E), 21:17356 (ZfK-Pha-23)
energy levels from tungsten-187 decay, (E), 22:24835(R) (BARC-305)
energy levels from tungsten-187 decay, lifetime and spin assignments using resonance fluorescence method, (E), 21:38359
energy levels of, calculation using Woods—Saxon potential for nonrotational, (T), 24:8900
energy levels of, deformation effects on, (T), 21:31796
energy levels of, K = 1/2 rotational, (T), 22:20664
energy levels of, spin—parity assignments from rigid-nonaxial-rotator model, (T), 25:7884 (ITF-70-44)
energy-level properties from gamma resonance fluorescence, (E), 21:12025(R) (NYO-3525-12)
energy-level spins and transition probabilities from γ—γ directional correlation measurements, (E), 21:15555 (CONF-660221-, pp 199-203)
energy-level spins and transitions from tungsten-187 decay, (E), 21:23489
energy-level spins and transitions from tungsten-187 decay, (E), 21:38351
energy-level transitions in, nuclear structure effects on internal conversion of M1, 25:56756
fluorine-19 reactions with, production of polonium isotopes by, (E), 21:38335
gamma reactions (γ,n) with rhenium-187 in homogeneous potassium rhenium bromide—potassium tin chloride crystals, chemical effects of, 23:28911
gamma—gamma angular correlations in liquid and solid tungsten sources of, (E), 23:1905
gyromagnetic ratio of, calculation of collective, (T), 22:20684
helium-3 reactions (He-3,α) with, cross section for, (E), 23:28307
helium-3 reactions (He-3,xnyp) at 10 to 33 MeV, cross sections for, (E), 22:53179
hyperfine structure, measurement with double Fabry—Perot spectrometer, 22:9101
mass of, (E), 24:38266
neutron absorption resonance integrals for, (E), 21:38309
neutron capture and total cross sections at 0.01 to 10 eV, (E), 22:3689(R) (GA-7820)
neutron capture by, conversion electron spectra from thermal, (E), 23:17103(R) (ANL-7481)
neutron capture by, conversion-electron spectra from thermal, (E), 22:9895
neutron capture by, γ spectra for, (E), 23:28281
neutron capture by, γ spectra from resonance and thermal, (E), 22:20576 (ORNL-TM-2159)
neutron capture by, γ spectra from thermal and resonance, (E), 23:23686
neutron capture by, rhenium-188 energy-level transitions from thermal, (E), 21:2751
neutron capture by, rhenium-188 low-lying levels from conversion-electron spectra from thermal, (E), 21:25534
neutron capture cross section at 0.1 to 30 keV, (E), 22:3689(R) (GA-7820)
neutron capture cross sections and resonance parameters at 0.01 eV to 30 keV, (E), 22:30014
neutron capture cross sections and resonance parameters, (E), 21:25518 (WASH-1071)
neutron capture resonance integrals and resonance parameters for, tables of Doppler-broadened, (T), 22:47318 (EURFNR-527)
neutron cross sections and resonance parameters for, data evaluation for ENDF/B library, 22:20568 (GEMP-587)
neutron reactions (n,γ) and (n,2n) with, cross sections for, (E), 21:17379
neutron resonance parameters at 0 to 100 eV, (E), 22:20578 (WASH-1079)
neutron resonance parameters at 1 to 100 eV, (E), 22:3689(R) (GA-7820)
neutron resonance parameters at 2 to 99 eV, (E), 21:40432 (WASH-1074)
neutron resonances of, spin assignments for, (E), 21:23466
neutron total cross section at 0.01 to 100 eV, (E), 22:30014
nuclear acoustic resonance in rhenium single crystal, Knight shift and zero-field splitting from, (E), 24:45375
nuclear electric quadrupole moment of, (E), 23:40038
nuclear magnetic resonance in $Be_{12}Re$, 24:37571
nuclear magnetic resonance in rhenium trioxide, 23:10721
nuclear properties in shell and unified models, (E/T), 22:1624
nuclear quadrupole moment, 21:3664
nuclear quadrupole moment, (E/T), 22:11957
nucleosynthesis and decay in stellar interiors, (T), 24:4983
performance of activation detectors of, for neutron spectra measurements at 1 eV to 10 keV, 25:8481 (KFK-1233)
photon reactions (γ,n) with, in mixed crystals, 24:9409
preparation of radiation targets of, use of isotope separator for, 21:40330
proton reactions (p,2n) at 14.3 MeV, angular anisotropy of conversion electrons in, (E), 22:20645
proton reactions (p,2n) at 14.3 MeV, anisotropy of conversion electrons from rotational levels in osmium-186 populated by, (E), 21:33963(R) (NP-16498)
proton reactions (p,2n) with, excited level determination from conversion electrons from, (E), 21:1089
proton reactions (p,n) at 17.5 MeV, production of isomeric osmium-187 by, (E), 21:38370
recoil following tungsten-187 beta decay, Moessbauer study of, (E/T), 23:46243
separation from natural rhenium compounds, process for, 24:19165(R) (ORNL-TM-2889)
x-ray spectra of μ-mesic, (E), 21:23534(R) (ANL-7246)
RHENIUM ISOTOPES Re-188
beta decay of isomeric, (E), 22:27125
beta decay of oriented angular distributions of electrons and gamma rays from, (E), 24:30763 (UCRL-19533)
beta decay of oriented, angular distribution of beta particles and γ rays from, (E), 25:23056
beta decay of polarized, β and γ-ray angular distributions from, (E), 25:7854 (UCRL-19530, pp 221-37)
beta decay of polarized, in iron at low temperatures, β^- and γ angular distributions from, (E), 25:17889
beta decay of, β spectra and nuclear matrix elements for, (E), 23:5906
beta decay of, β spectrum and matrix elements for, (E), 24:49902
beta decay of, β—γ angular correlations and matrix elements for, (E), 24:43367
beta decay of, β—γ angular correlations for, (E), 24:24590
beta decay of, β-γ coincidence spectra for once-forbidden, (E), 24:22136 (CEA-R-3923)
beta decay of, calculation of observables for, 24:47675
beta decay of, first-forbidden, (T), 24:45831
beta decay of, γ singles and coincidence spectra for, (E), 23:37209
beta decay of, γ spectra for, (E), 22:18241
beta decay of, osmium-188 energy levels from, (E), 21:2709 (UCRL-16996)
beta decay of, osmium-188 energy levels from, (E), 21:5549
beta decay of, perturbed γ angular correlations in, (E), 21:23517
beta decay of, transverse polarization of inner conversion electrons in, (E), 21:31822
beta spectra of, shape factors for, (E), 23:44942
beta transition rates for, testing Davydov-Filippov and Bohr-Mottelson models for, (E), 22:42059
beta transitions in, CVC theory with Woods—Saxon superfluid corrections for first-forbidden, (T), 22:53178
beta transitions in, shape factors for $1^- \rightarrow 0^+$, (E), 23:23713
beta transitions in, spectra for $1^- \rightarrow 2^+$, (E), 22:46812
content of feces, milk, and urine of dairy cattle following ingestion of Schooner fallout, 25:13396 (UCRL-72511)
content of milk and urine from cattle following single ingestion of fallout debris from nuclear cratering event, 25:488 (UCRL-72636)
decay of, g-factor of osmium-188 rotational state from, (E), 21:7783
distribution in fetal and maternal tissues of dairy cattle following ingestion of Schooner fallout, 25:13396 (UCRL-72511)
distribution in tissues of dogs, man, and rats, 21:45664 (ORAU-101, pp 74-7)
distribution in tissues of peccaries following ingestion of debris from Schooner Event in Plowshare Project, 25:46690
distribution in tissues of swine following field exposure to nuclear debris at Schooner Event site, fallout, 25:35090
distribution of recoil atoms of, in neutron-irradiated ammonium perrhenate and rhenium oxides, effects of annealing on, 23:47567
energy level transitions in, (E), 21:5593
energy levels from conversion-electron spectra following rhenium-187 (n,γ) reactions, (E), 21:25534
energy levels from rhenium-187 (d,p) reactions, (E), 22:42066
energy levels from thermal neutron capture in rhenium-187, (E), 22:9895
energy levels in K = 1 rotational band, electromagnetic moments and transition probabilities for, (E), 21:31769 (AE-280)
energy levels in K = 1 rotational band, lifetimes, (E), 22:27125
energy-level transitions from rhenium-187 neutron capture, (E), 23:28281
energy-level transitions from thermal-neutron capture by rhenium-187, (E), 21:2751
excretion in feces and urine of peccaries following single ingestion of nuclear debris from Schooner Event, quantitative comparison of fallout, 25:35089
internal conversion electron spectra for, (E), 23:17103(R) (ANL-7481)
metabolism in peccaries following ingestion of debris from Schooner Event in Plowshare Project, 25:46690
nuclear quadrupole moment, 21:3664
production of isomeric, in rhenium-187 (d,p) reactions, (E), 21:7760
production of, neutron capture by tungsten-186 to prepare tungsten-188 generator for, 24:46246(T) (ORNL-tr-2293)
production of, neutron capture by tungsten-186 to prepare tungsten-188 generator for, 23:31382
production using tungsten-188 generators, 21:45664 (ORAU-101, pp 74-7)
retention in ammonium perrhenate during Szilard—Chalmers reactions, effects of ammonia and water on, 23:49821
use as tracer for measurement of density of steam—water mixtures flowing in boiler tubes, 22:14725
use as tracer for scintiscanning, 21:45664 (ORAU-101, pp 74-7)
RHENIUM ISOTOPES Re-189
beta decay of, half life and spectra for, (E), 21:27563 (CNEA-175)
beta transitions in, matrix-element calculations using Nilsson model for first-forbidden, (T), 22:3781
neutron capture at 25 keV, activation cross section for, (E), 25:48073 (IN-1407, pp 1-82)
properties for use as heat source in direct energy conversion devices, 24:384
RHENIUM ISOTOPES Re-190
beta decay of isomeric, half life and spectra for, (E), 21:27563 (CNEA-175)
beta decay of, β and γ singles spectra and γ-γ coincidence spectra from, (E), 24:3929
beta decay of, gamma transitions following, (E), 24:49781 (IS-T-363)
decay of, 23:213 (IS-1900, Paper 3)
isomeric transition in, half-life for, (E), 25:53743(R) (INR-1318)
production of isomeric, by osmium-190 (n,p) and osmium-192 (d,α) reactions, (E), 21:27563 (CNEA-175)
RHENIUM OXIDES
band structure of, in tight-binding approximation, 23:44548
binding energy of, 23:1005
book: Fundamentals of Metallurgy, Vol. 4, Rare Metals, 22:8763
chromatographic behavior on ion exchange papers, 21:38948
crystal structure of Re_2O_7, 23:20554
crystal structure of vapor transport-grown monocrystalline, 24:27822
crystal structure of, determination of by x-ray, 22:2560(R) (IS-RD-11)
decomposition of, products of, 21:41575 (IS-1600, Paper 5)
deuterium exchange reactions between water-d_2 and alkyl benzenes on self-activated, 21:10322
electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
energy levels of ReO_3, bond structure and Fermi surface, (T), 23:42482
formation of Re_2O_7, heat of, 24:2999 (BM-RI-7323)
formation of ReO_2, heat of, 24:2999 (BM-RI-7323)
formation of ReO_3, heat of, 24:2999 (BM-RI-7323)
formation of volatile Re_2O_7, during oxidation, 22:12977
growth of single crystals of, 21:19585(R) (AD-640952)
growth of single crystals of, vapor transport method for, 24:27822
magnetic properties of high-purity, 25:16398 (IS-2300, pp 101-86)
magnetothermal oscillations in ReO_3 monocrystals, frequencies of, 24:6653
mass spectra of, 21:25826
metallic properties of, relation to proposed band models, 22:11518
neutron capture by, effects of annealing on distribution of rhenium-186 and rhenium-188 recoil atoms formed from, 23:47567
neutron reactions (n,γ) in, chemical states of radioactive rhenium from, 23:9471
optical properties at 0.1 to 22 eV, (E), 22:11518
physical properties of vapor transport-grown monocrystalline, 24:27822
preparation of microspheres of, for radioisotope impregnation for use as radiation source, 24:2402(P)

- properties and spectra of gaseous, 25:42957 (UCRL-20500, pp 147-73)
- reactions with dichlorodifluoromethane at 450 to 800°C, production of corresponding chloride and/or fluoride compounds by, 24:41296
- reactions with uranium trioxide to produce uranyl perrhenate, 23:35104
- reactions with vanadium oxides, production of vanadium rhenates by, 21:20586
- rhenium-185 and -187 NMR in ReO_3, conduction-band states from, 23:10721
- separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
- superconducting transitions in, search for, (E), 23:18557
- thermal capacity of ReO_3, electronic, 25:3956 (IS-T-383)
- thermal stability and melting point of, effects of electronic configuration on, 21:22919
- thermodynamic properties of, 21:13271
- thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
- thermodynamics of, at 25°C, 23:106 (ORNL-4306, pp 131-73)
- vapor species over high-temperature, 21:7856(R) (ANL-7255)
- vaporization at 850°C, 21:45068 (ANL-7325, pp 99-135)
- vaporization of Re_2O_7, mass spectrometric studies on, 24:43996 (UCRL-19645)
- vaporization thermodynamics of, mass-spectrometric studies of, 23:3148
- MoO_3—ReO_3, phase studies on solid solutions in, 21:19585(R) (AD-640952)
- Re_2O_3—TiO_2—ZrO_2, crystal structure and phases of, 22:23901
- Re—ReO, spectra of vaporized, mass, 21:30093(R) (ANL-7317)
- Re—ReO_2, vaporization of, mass spectrometric studies on, 22:25321 (ANL-7375, pp 95-134)
- ReO_2—ReO_3, vaporization of, mass spectrometric studies on, 22:25321 (ANL-7375, pp 95-134)
- ReO_3—WO_3, phase studies on solid solutions in, 21:19585(R) (AD-640952)

RHENIUM OXYCHLORIDES
- mass spectra of, 21:25826
- vibration frequencies of, (T), 24:33564(T) (ANL-Trans-831)
- $ReOCl_4$—$WOCl_4$, phase studies of, 22:4899

RHENIUM OXYFLUORIDES
- crystal structure of, 21:23889
- vapor pressure—temperature data for, 25:34602 (GAT-649)

Rhenium Potassium Chlorides
- see Potassium Rhenium Chlorides

RHENIUM SILICIDES
- production by auxiliary metal bath procedure, 22:38614

RHENIUM SULFIDES
- preparation of carrier solutions of, for metastable technetium-99, 24:32079
- separation of molybdenum and rhenium from, electrolytic method for, 23:47621

RHENIUM TELLURIDES
- preparation and structure of $ReTe_2$, 22:31518

RHENIUM TUNGSTEN CARBIDES
- superconducting properties of new interstitial compound, 22:26347

RHINE RIVER
- analysis of water from, for trace elements by neutron activation and radiochemical separations, 23:37914 (KFK-863)
- heating of, effects of nuclear and steam power plants thermal effluents on, 25:20685
- monitoring in, 21:28441 (RA-14)
- radioactivity of basin of, international study of, 1962 to 1965, 23:13858
- radioactivity of floating material, slime, and water of, in Netherlands, 21:28441 (RA-14)
- radioactivity of ground and surface waters of basin of, factors affecting, 23:31416 (EUR-3741(Vol.2))
- radioactivity of mud and water of, 23:38092 (EUR-3741(Vol.1))
- radioisotope sorption by bottom sediments of, 23:31420
- radioisotope sorption by plankton and sediments in, cesium-137, iodine-131, phosphorus-32, strontium-85, zinc-65, 24:14481
- sands of, sorption of radioisotopes by monomineralic fine, (E), 25:2350

Rhizopus
- see under Eumycota

RHODAMINE B
- effects on determination of uranium by extraction—photometry, 25:26163
- fluorescence excitation spectra for, 21:21829(R) (NYO-3401-3)
- performance in air-drop experiments to measure ocean turbulence, 22:42907 (CU-2663-9, App.Q)
- radiolysis of aqueous solutions of, effects of scavengers on light emission after pulse, 21:5911
- use as tracer for determining dilution and water movement in rivers, 24:34221
- use as tracer for identifying origin and transport of pollutants in hydrologic systems, 25:32082
- use as tracer in model river dispersion studies, 22:10356 (ORO-490-12)
- use as tracer to determine oceanic diffusion, 22:51120 (NYO-3109-35)
- use as tracer to study distribution of heat discharged from marine nuclear power plants, 22:18995 (NYO-3109-26)
- use for Japanese coastal water motion studies, 21:16031
- use in absorptiometric determination of uranium, 21:17586
- use in oceanographic studies, 21:16093
- uses of, for absorptiometric determination of microgram amounts of uranium, 21:5758 (NP-16378)

RHODAMINE C
- complexes with rare earths or yttrium and 5,7-dibromo-8-quinolinol, separation of, by solvent extraction using benzene, 23:47384
- complexes with uranium and TTA, extraction with benzene of, 23:4538
- solvent properties for uranyl ions in presence of nitrate ions, 22:33237

Rhodanates
- see Thiocyanates

RHODE ISLAND
- aeroradioactivity survey and areal geology of, 22:169 (CEX-58.4.6)

RHODIUM
- abundance in photosphere, (E), 22:23934
- alpha reactions at 30 to 80 MeV, K-shell ionization cross sections for, (E), 25:9978(R) (ORO-3398-26)
- analysis for gold, iridium, palladium, platinum, and silver by neutron activation and radiochemical separation, 23:13687
- analysis for impurities by Auger electron spectroscopy, 24:22583
- analysis for ruthenium, activation, 21:38880
- analysis for trace amounts of impurities, spectrochemical methods for, 24:7409
- analysis for traces of iridium by neutron activation methods, 21:34232
- analysis of fission product, for γ sources, 25:51385 (BNWL-CC-2239)
- analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
- analysis of, for trace impurities by neutron activation methods, 21:10272
- atomic point defects in, study using thermal emission of electrons, 25:45607
- atomic weight of, based on carbon-12 = 12, 22:42698
- Auger electron spectra, 24:25950
- book: Analytical Chemistry of the Noble Metals, 24:7405
- book: Guide to Uncommon Metals, 21:34854
- book: Toxicity of Industrial Metals, 23:24906
- book: Uncommon Metals, 22:10981
- calibration of in-core power reactor neutron detector wires of, 22:12084(R) (BAW-3647-6)
- chemical states in radioactive waste solutions, 23:9501 (ARH-732)
- chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
- chromatographic behavior in hydrochloric acid—thiocyanate mixture on Amberlite LA-2, 25:18337
- chromatographic behavior on thin layers of cellulose and silica gel impregnated with tributyl phosphate, 22:23115
- compatibility with uranium dioxide at 2000 to 2500°C, 23:12269 (KFK-762)
- complexes of, spectra in sulfuric acid, PMR, 22:45029 (UCRL-18043, pp 7-105)
- complexes with 2,4-pentanedione, effects as collector in fission product formation in neutron-irradiated uranium dioxide, 24:2266(R) (HMI-B-84)
- complexes with 2,4-pentanedione, reactions of fission products from neutron-irradiated uranium compounds with, 23:286
- complexes with 2,4-pentanedione, reactions with recoil atoms from neutron-irradiated uranium dioxide, 23:38005
- complexes with 8-quinolinol, structure of, NMR spectral studies on, 25:4081
- complexes with β-ketoenols, preparation and properties of, review of, 22:2061
- complexes with carbon dioxide, spectra of, effects of deuterium on ir, 23:28798
- complexes with neptunium, formation of, kinetics and equilibria of, in acidic solutions, 21:23877
- complexes with thoron, stability and structure of, 23:34983
- complexes with triphenylphosphine, preparation of, 23:35132(R) (NYO-1158-32)
- compounds of, mixed valence chemistry of, review on, 24:7440
- corrosion by acids, bases, chlorine, and oxygen, analytical significance of, 24:8066
- corrosion of plate, by fused sodium fluoride—uranium tetrafluoride eutectic, 22:15139 (AWRE-R-3/63)
- crystal structure vacancy formation and migration energies in, effects of Debye temperature on, 22:17119
- Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
- deposition on glass by sputtering, 21:26747(R) (NASA-CR-54358)
- deposition on single crystals of copper, cracking and strength of films from, 22:17116(R) (ORO-3401-3)
- determination as inclusion in irradiated plutonium dioxide by electron microprobe methods, 24:41172 (AERE-R-6310)
- determination as thiosalicylamide complex by gravimetry and spectrophotometry, 24:2111
- determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
- determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
- determination by atomic absorption in nitrous oxide—acetylene flame, effects of ammonium fluoride on, 24:38739
- determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
- determination by atomic absorption, optimum conditions for, 24:2106
- determination by electroanalytical methods, review of, 23:17334
- determination by emission of positive secondary ions from ion bombardment, mass-spectrometric, 21:27908
- determination by neutron activation, 25:44343
- determination by neutron activation and scintillation counting of short-lived isotopes, sensitivity of, 25:48(T) (CSIRO-Trans-10089)
- determination by neutron activation methods, 24:2158
- determination by neutron activation, sensitivity of, 23:35037
- determination by photon activation methods, 22:27589
- determination by photon activation, sensitivity for, 23:15826
- determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
- determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
- determination in alloys and metals, spectrochemical methods for, 24:7409
- determination in aqueous solutions by spectrophotometry using thoron, 23:34983
- determination in binary alloys with nickel, x-ray spectrographic, 22:4 (AERE-R-5452)
- determination in carbon powder, improvement in sensitivity of spectrographic, 25:37298
- determination in EBR-II fuels and fissium, development of remotely controlled atomic absorption spectrophotometry system for, 24:36153
- determination in fissium—uranium alloys by x-ray spectrometry, 24:31225 (LA-4438)
- determination in hydrocarbon matrix by neutron activation methods, 21:42892
- determination in irradiated cerium dioxide—uranium dioxide fuel, electron microprobe method for, 24:11442
- determination in irradiated plutonium, 21:35895
- determination in irradiated uranium dioxide fuel pins, electron probe, 22:25321 (ANL-7375, pp 95-134)
- determination in lead coating on copper by spark mass spectrography, 23:31287
- determination in nuclear materials, 21:21870
- determination in plutonium alloys, 21:35895
- determination in plutonium and uranium waste solutions after liquid-liquid extraction using Aliquat-336 by flame photometry, 22:8024
- determination in presence of iridium, platinum, and ruthenium by oscillopolarography using 2-methylpyridine, 23:28706
- determination in presence of palladium by oscillopolarography using 4-methylpyridine, 23:28706
- determination in presence of ruthenium, spectrophotometric, 22:1978
- determination in Purex waste solutions by atomic absorption spectrophotometry, 21:30348 (ISO-SA-37)
- determination in technetium by neutron activation, 25:22057
- determination in tellurium, spectrochemical, 25:31819
- determination in uranium alloys by atomic absorption spectrometry, 23:13628
- determination in various materials by x-ray fluorescence spectroscopy after precipitation, 22:25285
- determination of isotopic composition of, in spent fuels, 24:4849(R) (BNWL-1177)
- determination of trace amounts of, by high-current impulse argon arc method, spectrographic, 22:40012
- determination of trace amounts of, by neutron activation and tracer methods, 21:10272
- determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
- determination of trace amounts of, in liquid sodium by emission spectroscopy, 24:46174 (BNWL-1407)
- determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
- determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
- determination of, in highly irradiated uranium dioxide, 21:15840
- determination of, in meteorites by neutron activation methods, 21:4448
- determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
- determination of, review on methods and reagents for gravimetric, 24:7406
- determination of, review on methods and reagents for spectrophotometric, 24:7408
- determination of, review on methods and reagents for volumetric, 24:7407
- determination of, review on methods for, 24:7492
- determination of, review on various methods for, 25:23501 (MLM-1801)
- determination of, titrimetric micro-, 22:27577
- determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
- determination simultaneously with palladium and platinum in crude platinum samples by neutron activation and gamma spectrometry, 23:40594
- determination using bremsstrahlung activation, 23:21670
- determination using Chrome azurol S, spectrophotometric, 23:15794
- determination using hydroxycoumarins, 23:2190
- deuterium exchange with methane on surface of, correlation of catalytic activity and chemisorbed radicals in, 23:13707
- deuteron absorption coefficients and reaction cross sections at 4 to 28 MeV, calculations using optical model, (T), 21:21531
- deuteron reactions (d,p) at 52 Mev, proton spectra from, (E/T), 21:1107
- deuteron reactions (d,pn) at 8 to 15 MeV, (E), 22:9794
- deuteron scattering at 52 Mev, angular distributions for, (E/T), 21:1107
- dissolution of, by ac electrolysis, effects of variables on, 21:10343
- distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
- distribution on thin-layer DEAE-cellulose in organic solvent—thiocyanic acid mixture, chromatographic, 25:6417
- effects as catalyst on hydrogenation of unsaturated carbonyl compounds, 24:31313

effects of 5 percent additions of, on low-temperature thermal capacity of zirconium, 23:8161 (ORNL-4370, pp 21-5)
effects of evaporated films of, on exchange reactions between deuterium and cyclopropane or methylcyclopropane, 21:45105
effects of film coatings of, oxidation of zirconium, 22:21667
effects of intercalated, on magnetic properties of sulfides and selenides of niobium and tantalum, (E), 24:21887
effects of, on deuteration and deuterogenation of naphthalene and octalins, 21:12424
effects on colorimetric determination of gold, 25:34521
effects on colorimetric determination of uranium in fuel reprocessing solutions, 25:8197 (BARC-510)
effects on deuterium exchange between propene and heavy water, catalytic, 23:26233
effects on deuterium exchange in propene, catalytic, 25:8258
effects on deuterium exchange reactions with organic compounds, 22:35819
effects on deuterium exchange with cycloalkanes, mechanism of catalytic, 23:13709
effects on deuterium exchange with propane, catalytic, 23:13705
effects on direct titrimetric determination of molybdenum using ceric sulfate, 22:4025
effects on fluorescence of uranium-activated compounds with rocksalt lattice, 22:37768
effects on photometric determination of antimony following solvent extraction using TBP, 25:34512
effects on properties and sintering of tungsten at 1000 to 2000°C, 25:55453
effects on reactivity worth in Peach Bottom core, 21:25624(R) (GA-7595)
effects on spectrophotometric determination of ruthenium, 25:31809
effects on spectrophotometric determination of trace amounts of ruthenium using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, 22:22975
effects on superconducting transition temperature of cerium—cobalt alloys, (E), 22:7237
effects on titrimetric determination of lanthanum using sodium rhodizonate and ceric sulfate, 22:27555
effects on titrimetric determination of uranium, 22:22972
effects on tungsten sintering at 1000 to 1200°C, 24:23448
electron energy-loss spectra in, 25:964
electron energy-loss spectrum in, (E), 23:6886
erbium ESR in, 25:40828
formation and chemical state in urania irradiated above approximately 3 per cent burnup, 21:20596
friction and wear of, sliding against iron ring under vacuum, 25:11413
gamma reactions at 1 to 2 MeV, pair production cross sections from, (E/T), 25:33395
ion exchange behavior in ethanol—hydrochloric acid, 23:19837
joining of, with porous tungsten, methods for, 21:9117
mechanical and physical properties of, 21:43616
neutron capture resonance integrals for, measurement using cadmium ratio method, (E), 21:34011
neutron elastic scattering at 1 to 4 keV, angular distributions for, (E), 23:28296 (JINR-P3-4354)
neutron elastic scattering at 1 to 40 keV, analysis of angular distributions from, (E/T), 25:3695
neutron resonance absorption in, self-shielding of, (E/T), 25:57196
neutron resonance scattering at 125 to 450 eV, (E), 21:42615 (RPI-328-97, pp 1-34)
neutron scattering resonances at low energy, (E), 21:40432 (WASH-1074)
neutron self-shielding corrections of wires of, (E), 24:3932
oxidation of, in air at 1050°C to 1350°C, 21:12587(R) (STL-517-0049(Vol.3))
photoionization of, central-potential model for soft x-ray, 22:9052
photon reactions at 84 to 320 keV with, angular distribution of K-shell electrons from, (E), 24:32612
positron annihilation in, 21:33186
precipitation of, by hydroxides, oxalates, 8-quinolinol, sulfates, and sulfides in ethylenedinitrilotetraacetic acid, 21:1342
production from nuclear fission waste, factors affecting large-scale, 23:596
production from spent fuels, 23:28979
production in power reactors, economic aspects of, 22:119
properties for use as encapsulating material for californium-252 sources for neutron capture gamma-ray spectroscopy, 25:4772
properties for use in curium-244 oxide cermets, 25:8427(R) (ORNL-4639)
properties of fission-induced, for use in industry, 24:36920
properties of, effects of spin fluctuations on, (T), 22:3220
properties of, for use as fuel capsule cladding, 21:6148 (STL-517-0034(Vol.1))
properties of, table on, 23:18226
proton reactions with, in close contact with reactions of recoil molybdenum from, 25:15717
purification of, recovered from aged Purex waste, 23:33245 (ARH-911)
radiation effects on in-core flux monitors of, neutron, 21:43225 (DPSPU-67-30-5)
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
reactions in relation to use in dosimetry, 24:39450(R) (AECL-3451)
reactions of fission-product, with uranium carbide fuels, 25:13764 (KFK-1260)
reactions of fission-product, with uranium carbide fuels, 25:40103(T) (EURFNR-851)
reactions with lithium hydrides under hydrogen at 800°C, 23:24182
reactions with sulfonated polyethylene for use as neutron absorber, 23:26241(P)
reactivity worth measurements in Peach Bottom fuel elements, (E/T), 21:12134 (GAMD-7355)
separation and purification of fission product, from irradiated fuels by ion exchange, 25:48588
separation by thin-layer chromatography using slightly basic ion exchanger, effects of organic solvents on, 24:16661
separation from acetone—hydrochloric acid solutions by ion exchange using Bio-Rad, distribution coefficients for, 25:41899
separation from aged Purex wastes by anion exchange, 23:33244 (ARH-733)
separation from alkaline Purex waste by reduction on tin or zinc, 24:33753 (ARH-1455)
separation from aqueous nitrate or sulfate solutions by solvent extraction using amines, 24:270 (ORNL-4422, pp 252-71)
separation from aqueous solutions by ion exchange on metal sulfides in cellulose, 24:33766
separation from aqueous solutions by sorption on hydrated ferric oxide, 24:33774(P)
separation from cadmium, indium, molybdenum, niobium, and palladium by gas chromatography using aluminum chloride eluent, 25:10666 (JINR-P6-5410)
separation from fission products, controlled potential mercury cathode electrolysis method for, 24:2264 (CEA-R-3788)
separation from hydrochloric acid solution by solvent extraction using triisooctylamine, 21:28074
separation from iridium, review on methods for, 24:7492
separation from irradiated fuels by ion exchange, 23:47582 (BNWL-SA-1945)
separation from metals by thin-layer chromatography using DEAE-cellulose in binary solvent systems, 24:22762
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from neutron-irradiated ruthenium, 21:32258
separation from neutron-irradiated uranium by extraction chromatography, 25:46558
separation from nitrate solutions by solvent extraction using diethylammonium diethyldithiocarbamate in chloroform, 24:16635
separation from other fission products by ion exchange on zirconium oxide hydrate—dithionite column, 25:32053
separation from other fission products by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from other fission products by precipitation, 22:16667
separation from other fission products by solvent extraction using TBP, 24:36313
separation from other platinum metals by paper chromatography, 24:298
separation from other platinum metals by paper electrophoresis using EDTA as a background electrolyte, 24:283
separation from palladium and platinum by precipitation using ammonium thiocyanate and α-benzyldioxime, 25:37475
separation from palladium and ruthenium by coprecipitation with ferric hydroxide, 25:57552
separation from palladium by ion exchange, 22:33392
separation from plutonium and uranium waste solutions by liquid-liquid extraction using Aliquat-336, 22:8024
separation from plutonium by anion exchange from mixed methanol—nitric acid solutions, 25:29191
separation from radioactive waste by ion exchange on strongly basic anion exchange resins, 23:43379 (ARH-1279)
separation from ruthenium by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation from sulfuric acid by anion exchange using strongly basic resin, 21:22019
separation from water by filtration, 23:40847
separation of palladium from, by retention on column of Aliquat-336, 24:261 (ARH-1346)
separation of ruthenium from, by solvent extraction using carbon tetrachloride, 22:18884
separation of silver-105 from irradiated, by ion exchange, 23:6209
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, from ruthenium, 21:4612
separation of, review on methods for, 24:7492
separation of, solvent extraction and ion exchange methods for, 21:39129 (ORNL-4155)
sorptive properties for deuterium and hydrogen, infrared spectral studies of, 22:10237
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
sputtering yields of argon ion bombarded, 22:2587 (BNWL-553)
stress in electrodeposited thin films of, analysis of residual, 23:20501 (ORO-3401-10)
superconducting critical temperature of, resonating-valence-bond theory for, 22:38970
superconducting transition temperature of, relation to magnetic spin susceptibility, (T), 21:20894
superconductivity of, possibility of, 25:19606
surface friction of riders of, sliding on rhodium, 22:52177
surface migration of atoms of, determination by field emission, 22:28824
thermodynamic constants of, and its compounds, 23:33190
thermodynamic properties of, 21:13271
use and demand for, produced in fission product wastes, 23:596
use as carrier metal for rare earth addition to uranium, 22:28754 (LA-3911)
use as neutron activation detector based on electron current measurement from beta decay, 23:644(P)
use for neutron flux measurement, description of, 22:32740(R) (BAW-3647-7)
uses as structural materials in corrosive environments, review on, 23:46004
uses of, 23:28979
uses of fission product, evaluation of potential, 25:34803(R) (BNWL-1308-5)
zirconium activity coefficients in, 23:40616 (UCRL-18735, pp 5-80)
Al_2O_3—Rh, catalytic effects of, on reactions of acetylene with deuterium, 21:12425
Rh—UC, phase studies of, 21:9245

RHODIUM ALLOY COUPLES
Pt/Pt—Rh, compatibility with Zircaloy-4 at high temperatures, 23:50981 (IN-1307)
Pt/Pt—Rh, design and performance of, 22:36453 (LMEC-Memo-68-10)
Pt/Pt—Rh, radiation effects at 100 to 1000°C, neutron, 21:20533 (CONF-660511-, pp 7.3.1-5)
Rh—W/Rh—W, compatibility with Zircaloy-4 at high temperatures, 23:50981 (IN-1307)

RHODIUM ALLOYS AND SYSTEMS
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
Pt—Rh, solubility in hydrofluoric acid—nitric acid at high temperature and pressure, 25:6258(R) (IN-1426)
Al—Nb—Rh, phase studies of, 24:17315
Al—Rh, crystal structure of, review of, 23:48460 (NP-18014)
Al—Rh—U-base, properties for use as reactor fuel with improved resistance to bubble formation, 21:11255(P)
Be—Rh, crystal structure of intermetallic $RhBe_{6.6}$, in, 24:25734
C—Rh—U, crystal structure and properties of U_2RhC_2, effects of annealing on, 23:22641
C—Rh—U, phase studies of, 23:8330
C—Rh—U, thermodynamic properties of U_2RhC_2, 24:44720
C—Rh—Zr, phase studies, 23:30050 (UCRL-18727)
Ce—Co—Rh, crystal lattice spacings of, 22:23821
Cm—Rh, preparation of intermetallic $CmRh_3$, by oxide reduction reactions, 25:57658(R) (ORNL-4723)
Co—Rh, enhanced NMR relaxation rates and susceptibilities in, (E/T), 22:17762
Cr—Rh, crystal structure of intermetallic $CrRh_3$, 23:18244
Cr—Rh, magnetic properties of, 21:2319
Cr—Rh, superconducting behavior of, 23:25281
Cr—Rh, transition temperature of superconducting, effects of ordering on, 21:16871 (AD-642028)
Cr-base—Rh, superconductivity and thermal capacity of, with A-15 structure, 25:25045
Cu—Rh—Se—Sn, superconductivity in CuRh/sub 2-x/Sn/sub x/Se_4, critical carrier concentration for, (E), 24:3257
Cu-base—Rh, strain-stress curves for, 22:17116(R) (ORO-3401-3)
Dy—Rh, hyperfine parameters of DyRh, Moessbauer-effect study of, 25:56382
Dy—Rh, structure of intermetallic $DyRh_3$, 24:36936
Eu—Rh, Moessbauer and magnetic properties of intermetallic, 22:22246
Eu—Rh, structure of intermetallic $EuRh_2$, 24:36936
Fe—Rh, hyperfine field at rhodium-103 recoil sites in, 23:23674 (KFKI-3/1969)
Fe—Rh, rhodium-103 hyperfine field following low-energy Coulomb excitation in, 24:32920
Fe—Rh, stress-strain properties of intermetallic compound FeRh in, as function of temperature, 21:41575 (IS-1600, Paper 5)
Fe-base—Ni—Rh, use as filter in polarized iron-57 Moessbauer source, 25:56366
Gd—Rh, electric conductivity of $GdRh_2$ near magnetic ordering temperature, temperature derivative of, 24:42823
Gd—Rh, electric conductivity of intermetallic $GdRh_3$, temperature dependence of, (E), 23:39575
Gd—Rh, gadolinium hyperfine fields in, (E), 21:7353
Gd—Rh, gadolinium ion ESR in intermetallic compounds of, relation between g shift and hyperfine field in, (E), 22:29579
Hf—Pt-base—Rh—Ti—W, hardness of crystallized, effects of annealing at high temperatures on, 25:57658(R) (ORNL-4723)
Hf—Rh, phase studies, 23:34011
Hf—Rh, preparation by coupled reductions, 25:49389
Hf—Rh, properties, 22:31321
Hf—Rh, superconductivity of, (E), 21:2143
Hf—Rh, thermodynamic properties of $HfRh_3$, 24:44720
Hf—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ir—Rh, air oxidation rate of, effect of alloy composition on, 21:12587(R) (STL-517-0049(Vol.3))
Ir—Rh, air oxidation rates of, 21:12587(R) (STL-517-0049(Vol.3))
Ir—Rh, chemical and physical properties of, measurement of, 21:12587(R) (STL-517-0049(Vol.3))
Ir—Rh, electrodeposition on metals in fused sodium cyanide and aqueous electrolytes for protective coating, 21:41542 (BM-RI-7023)
Ir—Rh, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Ir—Rh, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Ir—Rh, superconducting properties of fcc solid solutions of, (E), 25:19606
Ir—Rh, superconductivity, susceptibility, and thermal capacity of, correlation between, (E), 22:11383
Ir—Rh, superconductivity, susceptibility, and thermal capacity of, (E/T), 22:11384
Ir—Rh—W-base, performance as brazing alloy for tantalum, tungsten, and their alloys, 23:8138(P)

La—Rh, crystal structure of intermetallic compounds in, 23:41661
La—Rh, crystal structure of intermetallic La_xRh/sub approximately 3/ in, 24:14804
La—Rh, phase diagram, 23:41661
Mo—Pd—Rh—Ru—Tc, fission-induced inclusions of, in plutonium dioxide—uranium dioxide fuels, 22:17152
Mo—Pd—Rh—Ru—U—Zr, fabrication of fuel alloy of, for EBR-II, 21:4590 (ANL-7125, pp 21-60)
Mo—Rh, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on molybdenum, 21:9152
Mo—Rh, joining of, with porous tungsten, methods for, 21:9117
Mo—Rh, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Mo—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Mo-base—Re—Rh, performance in brazing tungsten, molybdenum, and their alloys, 21:26784(P)
N—Rh—Zr, compound formation and stability in, 21:33002
Nb—Rh, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Rh, crystallization of solid-solution, mechanisms of, 25:19242
Nb—Rh, phase diagram for, review on, 23:47435
Nb—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Nd—Rh, phase diagram of, 24:19464
Ni—Rh, analysis for rhodium, x-ray spectrographic, 22:4 (AERE-R-5452)
Ni—Rh, electron correlation effects in, 25:27868
Ni—Rh, thermal capacity at 0.05 to 4°K, 23:40616 (UCRL-18735, pp 5-80)
Ni—Rh, thermal capacity of, at 0.05 to 5°K, 22:45029 (UCRL-18043, pp 7-105)
Os—Rh, superconducting properties of fcc solid solutions of, (E), 25:19606
Os—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Pu—Rh—Ru—U, formation in irradiated plutonium dioxide—uranium dioxide fuels, 22:17152
Pd—Pu—Rh—Ru—U, occurrence of inclusions of, in irradiated plutonium carbide—uranium carbide, 25:16541
Pd—Rh, thermodynamic properties of solid solutions of, 24:25725 (ANL-7417, pp 85-104)
Pd—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd—Rh—Ru, electric properties, 23:994
Pt—base—Rh, properties for use in isotopic heat source capsules, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt—Rh, coating with iron titanate, methods for, 22:4355(R) (NAA-SR-12578)
Pt—Rh, compatibility with plutonium-238-dioxide to 1900°C, effects of atmosphere, molybdenum, and tantalum on, 24:32498
Pt—Rh, fabrication for large radioisotope heat source capsule barrier caps and shells, 22:47290(R) (AI-AEC-12713)
Pt—Rh, fabrication of barrier shells of, for radioisotope heat source capsule, 23:17688(R) (AI-AEC-12776)
Pt—Rh, fabrication of large radioisotope heat source capsule barrier shells and caps of, 23:11720(R) (AI-AEC-12753)
Pt—Rh, gamma attenuation cross sections at 84, 100, and 280 keV, (E/T), 24:28402
Pt—Rh, gamma-ray interactions in, effective atomic numbers for, (E/T), 24:49244
Pt—Rh, mechanical properties of, 21:43616
Pt—Rh, metallurgical properties of oxidation barrier of, for Large Radioisotope Heat Source fuel capsule during launch pad abort, 23:47709 (AI-AEC-12841)
Pt—Rh, performance as brazing alloy for tungsten, 23:8132 (ORNL-4370, pp 92-100)
Pt—Rh, photoelectric cross sections for, (E), 22:47818
Pt—Rh, photon reactions at 2.6 to 17.6 MeV with, effective atomic numbers for pair production in, (T), 25:14402
Pt—Rh, preparation for use as catalyst in production of nitric acid from ammonia, 23:19746 (TID-25000)
Pt—Rh, properties for use as DART I fuel capsule cladding, 25:15837 (MLM-1578)
Pt—Rh, properties for use as thermocouple in reactors, 21:19796 (CONF-660511-, pp 7.2.1-5)
Pt—Rh, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pt—Rh, testing for fuel capsule liner cladding, 22:4355(R) (NAA-SR-12578)
Pt—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt-base—Rh, compatibility testing of, for oxidation barrier for large radioisotope heat source capsules, 22:51175 (AI-AEC-12739)
Pt-base—Rh, compatibility with iron titanate coatings at high temperatures, 23:41615
Pt-base—Rh, compatibility with niobium-base—zirconium alloys at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with other candidate refractory materials for radioisotope fuel capsules at 2000°F, 24:31589(R) (AI-AEC-12956)
Pt-base—Rh, compatibility with other refractory alloys and materials for use in large radioisotope heat source capsules, 24:41610 (AI-AEC-12966)
Pt-base—Rh, compatibility with plutonium dioxide at 1250 to 1500°C, 24:46767(R) (BMI-1860)
Pt-base—Rh, compatibility with plutonium-238 dioxide powder and spheres at 1200°C, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with plutonium-238 dioxide powder at 1200°C in presence of tantalum—tungsten alloy, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with plutonium-238 dioxide spheres in presence of molybdenum, tantalum, or TZM, 25:2663 (MLM-1684)
Pt-base—Rh, compatibility with T-111 alloy at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with tantalum-base—tungsten alloys at 2250°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, compatibility with TZM at 2250 to 2500°F, 24:39138(R) (AI-AEC-12968)
Pt-base—Rh, fabrication of fuel capsule liners of, 24:20947(R) (AI-AEC-12926)
Pt-base—Rh, fabrication of Pioneer and Transit heat source capsule components of, equipment and methods for, 25:26425 (MLM-1796)
Pt-base—Rh, fabrication of Pioneer and Transit radioisotope heat source components of, methods for, 24:41611 (AI-AEC-12967)
Pt-base—Rh, microstructure of deep-drawn, for use in large radioisotope heat source barrier shells, 24:375(R) (AI-AEC-12875)
Pt-base—Rh, properties for use as fuel capsule material, 25:23739(R) (ORNL-4663)
Pt-base—Rh, properties for use in large radioisotope heat source capsules, 22:10503 (NAA-SR-12635)
Pt-base—Rh, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pt-base—Rh, radiation effects on electric conductivity of thermocouple wires of, 23:8148 (BMI-X-10246)
Pt-base—Rh, radiation effects on electric properties of, neutron, 23:8248
Pt-base—Rh, tensile properties at 1093 to 1290°C, 25:29823 (ORNL-4630, pp 186-90)
Pt-base—Rh, tensile properties at 1093 to 1290°C, 25:8427(R) (ORNL-4639)
Pt-base—Rh, tensile properties at 2000 to 2400°F, 25:49410 (ORNL-TM-3300, pp 224-6)
Pt-base—Rh, testing for large radioisotope heat source capsule coating, 22:23216(R) (AI-AEC-12642)
Pt-base—Rh, testing in multilayer fuel capsules, impact, 24:20947(R) (AI-AEC-12926)
Pt-base—Rh—Ti, preparation of dispersion-strengthened, 24:19397(T) (ORNL-tr-2285)
Pt-base—Rh—W, compatibility with tungsten at high temperatures, 25:57658(R) (ORNL-4723)
Pt-base—Rh—W, fabrication and properties of cladding of, 25:41993(R) (ORNL-4692)
Pt-base—Rh—W, hardness of crystallized, effects of annealing at high temperature on, 25:57658(R) (ORNL-4723)
Pt-base—Rh—W, properties for use in isotopic heat source capsules, 25:49379 (ORNL-TM-3416, pp 184-91)
Pt-base—Rh—Zr, preparation of dispersion-strengthened, 24:19397(T) (ORNL-tr-2285)
Pu—Rh, phase diagrams of, 21:32918
Pu—Rh, phase studies of, 22:2655
Re—Rh, properties of, for use as protective coating on molybdenum and tungsten, 21:9152
Re—Rh, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Rh—Ru, magnetic susceptibility at 4 to 300°K, 25:19874
Rh—Ru, magnetic susceptibility of, 24:25725 (ANL-7417, pp 85-104)
Rh—Ru, separation from nitric acid by solvent extraction using tridodecylamine, effects of plutonium on, 22:37862
Rh—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Rh—Ru, thermal capacity of, 24:25725 (ANL-7417, pp 85-104)
Rh—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Rh—Ru—Ti, phase studies of, 23:18242
Rh—Ta, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Rh—Tc, magnetic susceptibility at 4 to 300°K, 25:19874
Rh—Tc, magnetic susceptibility of, 24:25725 (ANL-7417, pp 85-104)
Rh—Tc, phase studies of, 22:4807
Rh—Tc, thermal capacity of, 24:25725 (ANL-7417, pp 85-104)
Rh—Th, thermodynamic properties of $ThRh_2$, 24:44720
Rh—Ti, phase studies, 23:34011
Rh—Ti, stability of gaseous intermetallic, 25:35350
Rh—Ti, superconducting transition temperature as function of rhodium concentration, (E), 22:7231
Rh—Ti, superconducting transition temperature determination by specific heat measurements, (E), 23:23047
Rh—Ti, thermal capacity at 0.9 to 8°K, (E), 22:7231
Rh—Ti-base, superconductivity of ternary β-titanium, 25:3021(T) (UCRL-Trans-1409)
Rh—U, phase diagrams, 22:19562
Rh—U, phase diagrams, illustration of 500 to 2100°C, 22:48790
Rh—U, preparation by coupled reductions, 25:49389
Rh—U, thermodynamic properties of URh_3, 24:44720
Rh—V, electron band structure of V_3Rh from x-ray emission spectra, 25:50003
Rh—V, superconductivity, thermal capacity, and crystalline order of, with A15 structure, (E/T), 24:40016
Rh—W, compatibility with uranium dioxide at 2000 to 2500°C, 23:12269 (KFK-762)
Rh—W, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on tungsten, 21:9152
Rh—W, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Rh—Y, phase diagram of, statistical prediction of, 22:31396
Rh—Zr, preparation by coupled reductions, 25:49389
Rh—Zr, stability of gaseous intermetallic, 25:35350
Rh—Zr, structure of intermetallic equiatomic, (E), 21:16971
Rh—Zr, superconductivity and magnetic susceptibility in, (E/T), 25:40546
Rh—Zr, superconductivity of intermetallic Zr_2Rh, (E), 25:27654
Rh—Zr, thermodynamic properties of $ZrRh_3$, 24:44720
Rh—Zr, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)

RHODIUM BROMIDES
separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

RHODIUM CHLORIDES
complexes with amines, radiation effects on, recoil zones of chlorine-36 from neutron, 25:32015
complexes with ammonia, radiation effects on, thermal neutron, 24:33738
complexes with dimethylglyoxime and triphenylphosphine, crystal and molecular structure of, 24:33586 (MIT-1965-78)
complexes with triethylenetetramine, radiation effects on labeled, thermal-neutron, 25:137
crystal structure of $RhCl_3$, 21:46(R) (GA-5611)
effects of chlorine-36-labeled, on polymerization of butadiene in water emulsion, radioactivity of polymers produced by, 23:28849
effects on γ-induced emulsion polymerization of butadiene and isoprene, 22:23036(R) (TID-24281)
effects on polymerization of butadiene in water emulsion, effects of deuterium on catalytic, 23:28849
effects on radioinduced polymerization of butadiene, 22:33387
separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702

RHODIUM COUPLES
Pt/Rh, design and performance of, 22:36453 (LMEC-Memo-68-10)
Pt/Rh, design for temperature measurements in Herald reactor, 24:14364
Rh/W, diffusion at 1000 to 1500°C between, 23:36063 (BNWL-1071)

RHODIUM FLUORIDES
fluorine-19 NMR in RhF_3, 24:9381

RHODIUM HALIDES
book: Halides of the Transition Elements, Halides of the Second and Third Row Transition Metals, 23:9399

RHODIUM IONS
chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
complexes with 4-(2-thiazolylazo)resorcinol, stability constants for, 21:34267
oxygen-18 exchange between aquated, and labeled water, kinetics of, 21:23877
radii in fluorides and oxides, 24:188

RHODIUM ISOTOPES
decay of, conversion-electron and gamma spectra from, (E), 21:19285
decay schemes for, tables on, 23:33331 (BNL-13595)
energy levels of odd-A, from proton inelastic scattering, (E), 22:32651
gamma spectra of fission product, 25:20942
nuclear charge distribution of, effect of proton addition on, (E/T), 21:44620
production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
reactions of recoil atoms of, with cobalt complexes with 2,4-pentanedione, 23:286

RHODIUM ISOTOPES Rh-95
half-life, (E), 23:15461

RHODIUM ISOTOPES Rh-96
beta and electron-capture decay of ground state and isomeric, half-lives for, (E), 23:15461
beta decay of ground-state and isomeric, γ spectra from, (E), 25:23045
beta decay of ground-state and isomeric, half-lives and γ spectra for, (E), 25:43943
beta decay of, gamma spectra, half-lives, and log-ft values from, (E), 25:12617
isomeric transition in, half-life for, (E), 23:15461
nuclear mass excess from ruthenium-96 (p,n) reactions, (E), 25:12617
nuclear spin—parity assignment for, (E), 25:12617

RHODIUM ISOTOPES Rh-97
beta and electron-capture decay of, γ spectra from, (E), 24:18435
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
decay of, evidence for isomeric state in, (E), 25:46088

RHODIUM ISOTOPES Rh-98
beta and electron-capture decay of, γ spectra from, (E), 24:18436
beta decay of, gamma spectra, half-lives, and log-ft values from, (E), 25:12617
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy levels from palladium-98 decay, (E), 24:18436
nuclear mass excess from ruthenium-98 (p,n) reactions, (E), 25:12617
nuclear spin—parity assignment for, (E), 25:12617

RHODIUM ISOTOPES Rh-99
beta and electron-capture decay of ground-state and isomeric, γ spectra from, (E), 24:40608 (IN-1317, pp 69-151)
beta and electron-capture decay of ground-state and isomeric, γ spectra from, (E), 25:25762
beta and electron-capture decay of, γ spectra from, (E), 21:46754
beta decay of, ruthenium-99 energy levels from, (E), 21:35494
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
decay scheme of, gamma spectra for, (E), 21:42673
energy levels from beta decay of palladium-99, spin and parity assignments for, 23:49427
energy levels from palladium-99 decay, spin—parity assignments for, (E), 25:28431

RHODIUM ISOTOPES Rh-100
beta and electron-capture decay of, γ spectra and branching ratio for, (E), 23:42922
beta and electron-capture decay of, γ-γ coincidence spectra and angular correlations from, (E), 24:15926

beta and electron-capture decay of, log-ft values for, (E), 22:27169
beta and electron-capture decay of, ruthenium-100 energy levels from, (E), 21:42613(R) (NP-16992)
beta decay of, branching ratios and γ spectra for, (E), 22:18244
beta decay of, β—γ and γ—γ coincidence spectra for, (E), 23:9730 (KURRI-TR-41)
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
energy level at 74.8 keV from palladium-100 decay, half-life and g-factor for, (E), 25:20454
energy levels of, g-factor and lifetime of 75-keV, (E), 21:19285
energy levels of, magnetic moment of 74.8-keV, (E), 21:17367
gamma-gamma angular correlations in type-II superconducting niobium, perturbed, (E), 22:46062
hyperfine field in nickel host near Curie point, perturbed angular correlation measurements of, 25:8176 (TID-25597)
hyperfine field in nickel host, perturbed angular correlation measurements of, 25:8145 (CONF-700933-3)
hyperfine field in nickel, gamma—gamma perturbed angular correlation study of temperature dependence of, 23:27713 (UCRL-18675)
nuclear magnetic resonance destruction of angular correlations in iron and nickel, 21:44154 (UCRL-17509)
nuclear magnetic resonance in iron and nickel, resonance destruction of angular correlations in, (E/T), 22:46234

RHODIUM ISOTOPES Rh-101
beta decay of, ruthenium-101 energy levels from, (E), 21:35494
content in sediments from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
electron-capture decay of ground-state and isomeric, γ and conversion electron spectra from, (E), 25:46035
energy levels at 181.8 and 477.9 keV, half-lives of, (E), 25:14992
energy levels from palladium-101 decay, spin-parity assignments for, (E), 25:12596
energy levels of, description with quasiparticle coupling to quadrupole moment of 2^+ phonon, (T), 22:18240
energy-level transitions from palladium-101 decay, conversion coefficients and multipolarities for, (E), 25:12596
gamma spectra of isomeric, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
half-life of isomeric, (E), 22:50642

RHODIUM ISOTOPES Rh-102
beta and electron-capture decay of ground-state and isomeric, γ spectra from, (E), 24:15879
beta and electron-capture decay of, directional correlations in, (E), 25:12546
beta and electron-capture decay of, γ spectra from, (E), 22:27167
beta decay of, β^+ - γ angular correlations for, (E), 24:8908
beta decay of, gamma spectra, β-γ coincidences, and β^+ branching in, (E), 24:52590
beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
content in atmosphere, comparison of measured and predicted, 24:31504
content in Bikini Atoll soils, measurement of, 23:6217 (HASL-190)
content in fallout and surface atmosphere in USSR during 1964 to 1967, 24:41441
content in monthly precipitation in US cities, 1960 to 1965, 22:25530 (HASL-193, pp II.1-30)
content in precipitation in U.S. from 1960 to 1965, 21:45612(R) (HASL-183(App.))
content in rainwater at selected US sites, data tabulations on, 1957 to 1967, 22:14588(R) (HASL-184(App.))
content in reactor-irradiated fuel, 23:38173(R) (BNWL-1085)
content in sediments from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
content of man, MPC for, 24:44527
content of metastable, in man, MPC for, 24:44527
content of plants grown on ejects from the Sedan thermonuclear cratering detonation, 21:26440
content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
deposition on earth surface, calculations for, 24:31504
determination in fission product rhodium, 25:51385 (BNWL-CC-2239)
diffusion in stratosphere of, 21:6053
electron-capture decay of ground-state and isomeric, γ singles and coincidence spectra for, (E), 23:25911
electron-capture decay of, log-ft values for, (E), 22:27169
electron-capture decay scheme of, conversion-electron and γ spectra for, (E), 22:14005
fallout at selected U.S. stations, 1960 to 1964, 21:41019(R) (HASL-182)
gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
half life of metastable, 25:18590(R) (BNWL-1308-4)
half-life of isomeric, 24:39139(R) (BNWL-1308-2)
half-life of metastable, 24:48220(R) (BNWL-1308-3)
nuclear spin and parity of, (E), 24:8908
radiation properties of fission product, 24:20948(R) (BNWL-1308-1)
separation from mixed radioisotopes in algal and soil samples, ion exchange methods for, 23:933(R) (NIRS-6)

RHODIUM ISOTOPES Rh-103
activity calibration of sources of isomers of, coincidence method for, 21:5826
activity standardization for isomeric, 21:17318(R) (AECL-2659)
alpha reactions (α,n) at 13.6 and 19.3 MeV, analysis of level density parameters for, (E), 23:42881
alpha reactions (α,n) at 17 MeV, neutron spectra from, (E), 21:29943
alpha reactions (α,n) at 23.4 MeV, neutron energy spectra from, (E), 24:13328
alpha reactions at 30 to 80 MeV, cross sections for production of K x rays by, (E), 25:12488
content ratio to ruthenium-103 in Albany, Oregon, atmosphere, Dec. 1968 to June 1969, 24:14082 (RLO-1750-54, pp 20-4)
decay of isomeric, K x-ray emission in, (E), 21:12036
detection of, in marine alga Sargassum, 21:10737
determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
deuteron elastic and inelastic scattering at 52 MeV, optical model analysis of elastic and inelastic, (E), 22:48509(R) (BMwF-FBK-68-22)
deuteron elastic scattering at 52 MeV, angular distributions from, (E), 22:26971
deuteron elastic scattering at 52 MeV, optical model analysis of angular distributions from, (E), 22:46711 (BMwF-FBK-68-16)
deuteron reactions (d,2n), (d,2p), and (d,t) at 27.5 MeV, cross sections for, (E), 21:29959 (IAN-F-2)
deuteron reactions (d,2p) at 27.5 MeV, excitation functions for, for use in activation analysis, 24:38773 (PRNC-135, pp 189-94)
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomeric yield ratios of, (E), 21:23519
deuteron reactions (d,p) at 4 to 15 MeV, absolute cross sections and isomer yield ratios for, (E/T), 21:12024(R) (NYO-2771-19)
deuteron reactions (d,p) with, production of isomeric rhodium-104 in, (E), 21:7760
deuteron reactions (d,pn) with, p—n angular correlations for, (E), 24:10920
deuteron reactions (d,t) at 52 Mev, triton spectra from, (E/T), 21:1107
diffusion in bituminous materials and cements, 23:40967 (CEA-R-3751)
electron energy levels, magnetic hyperfine interaction constants and electronic g factors for low-lying, (E), 22:41366
energy level at 538 keV, lifetime and transition probabilities for, (E), 22:27116
energy level at 538 keV, lifetime of, (E), 22:24835(R) (BARC-305)
energy level transitions from decay of ruthenium-103, internal conversion coefficients for, (E), 23:37201
energy levels at 93, 536, and 650 keV, lifetimes of, (E), 24:30823
energy levels from chlorine-35 Coulomb excitation, spin-parity assignment for, (E), 24:28726(R) (AECL-3512)
energy levels from oxygen scattering, magnetic moments of, (E), 24:49803
energy levels from oxygen-16 Coulomb excitation and proton inelastic scattering, spin—parity assignments and transition probabilities for, (E), 23:17126
energy levels from palladium-103 decay, (E), 23:42954
energy levels from proton and oxygen-16 inelastic scattering, lifetimes and spin—parity assignments for, (E), 23:13260 (ANU-P-420)
energy levels from proton inelastic scattering, (E), 22:32513(R) (ANU-P-400)
energy levels from proton inelastic scattering, (E), 22:32651
energy levels from proton inelastic scattering, (E), 22:27152
energy levels from ruthenium-103 and palladium-103 decays, (E), 24:40608 (IN-1317, pp 69-151)
energy levels from ruthenium-103 decay, (E), 23:49412
energy levels from ruthenium-103 decay, (E), 24:22156
energy levels from ruthenium-103 decay, (E), 23:21336
energy levels from ruthenium-103 decay, (E), 24:15898
energy levels from ruthenium-103 decay, (E), 25:5714
energy levels from ruthenium-103 decay, spin—parity assignments for, (E), 25:56771
energy levels from ruthenium-103 decay, spin—parity assignments for, (E), 24:43403
energy levels from ruthenium-103 decay, spin—parity assignments for, (E), 24:33127
energy levels from ruthenium-103 decay, spin-parity assignments for, (E), 25:20404
energy levels from ruthenium-103 decay, spin-parity assignments for, (E), 24:43458
energy levels from ruthenium-103 decay, spin-parity assignments for, (E), 25:23049
energy levels from ruthenium-103 decay, spin-parity assignments and transition multipolarities for, (E), 22:30044
energy levels of, lifetimes, spin assignments and transition multipolarities of, (E), 25:38954
energy levels of, spin—parity assignments for, (E), 23:37201
energy-level spins and transitions from ruthenium-103 beta decay, (E), 22:14047
energy-level transition from decay of ruthenium-103, internal conversion coefficient for 53-keV, (E), 23:40045
energy-level transition from ruthenium-103 decay, k-conversion coefficient for 53-keV, (E), 24:15898
energy-level transition in, internal conversion coefficient for, 24:1827
energy-level transition probabilities from oxygen-16 inelastic scattering with Coulomb excitation, E2, (E), 23:13260 (ANU-P-420)
energy-level transitions from ruthenium-103 decay, conversion coefficients for, (E), 23:25901 (IN-1218, pp 73-138)
energy-level transitions from ruthenium-103 decay, multipolarities of, (E), 22:27170
energy-level transitions from ruthenium-103 decay, internal conversion coefficients and multipolarities for, (E), 25:56771
energy-level transitions from ruthenium-103 decay, internal conversion coefficients, (E), 25:23049
energy-level transitions in, L- and M-subshell internal conversion ratios for E2, (E), 23:10936(R) (COO-535-591)
gamma activation of, (E), 23:44875
gamma scattering by, activation cross sections for, (E), 21:10011(T) (ANL-Trans-373)
half-life of isomeric, 23:46985 (JAERI-1178)
hyperfine field at recoil sites in iron—rhodium alloys, anomalous, 23:23674 (KFKI-3/1969)
hyperfine magnetic field in iron at 305.5°K, NMR measurements on, (E), 22:46731(R) (COO-1746-8)
isomeric transition in, conversion coefficient and ratio for, (E), 23:25936
magnetic hyperfine field in iron, (E), 22:26929(R) (COO-1420-139)
magnetic hyperfine field in iron—rhodium alloy following low-energy Coulomb excitation, 24:32920
meson (π^-) capture by, x-ray spectra from, (E), 21:3657
metabolism in rats, determination of, by whole-body counting, 21:28394
neutron absorption and scattering up to 4 keV, resonance parameters and cross sections for, (E), 24:30833
neutron capture at 0.001 to 1 MeV, cross sections for, (E), 25:15121
neutron capture at 0.025 eV to 1.7 MeV, isomeric cross section ratio for, (T), 23:19266
neutron capture at 1 eV to 1 MeV, cross section for, (E), 25:41238
neutron capture at 1 to 100 keV, time-of-flight measurements of cross section for, (E), 23:1877 (NP-17644)
neutron capture at 14 MeV, γ spectra and cross section for, (E), 25:56729
neutron capture at 20 to 1400 keV, isomeric cross section ratio for, (E), 24:47637 (ANL-7610, pp 1-59)
neutron capture at 24 keV, isomeric cross-section ratio for, (T), 22:32537
neutron capture at 25 keV, isomeric activation cross section for, (E), 25:48073 (IN-1407, pp 1-82)
neutron capture by, activation resonance integrals for, (E), 22:37340(R) (EANDC(E)-89(U))
neutron capture by, cross-section evaluation for use as standard, 25:53735 (CONF-701002-, pp 285-312)
neutron capture by, effect of pigmy resonance in calculations using compound nucleus model, (T), 25:38977 (INR-P-967)
neutron capture by, effect of pigmy resonance on cross-section calculations for, (T), 24:8919
neutron capture by, gamma spectra from resonance, (E), 25:28437
neutron capture by, γ spectra from resonance and thermal, (E), 23:1882 (WASH-1093)
neutron capture by, γ spectra from resonance, (E), 25:12561
neutron capture by, isomeric cross-section ratio and spin-cutoff parameter for, (T), 22:48498
neutron capture by, isomeric cross-section ratio for, (E), 23:28304 (WASH-1124)
neutron capture by, partial widths for resonance, (E), 23:28304 (WASH-1124)
neutron capture by, s-wave and p-wave components in resonance, (E), 25:23043
neutron capture cross sections at 13.4 to 15.0 MeV, (E), 21:13839
neutron capture cross sections at 70 to 182 keV, (E), 21:38365
neutron capture integral in fast region, (E), 25:5656
neutron capture resonance integrals and resonance parameters for, tables of Doppler-broadened, (T), 22:47318 (EURFNR-527)
neutron capture up to 1 MeV, cross section and resonance parameters for, (E), 25:48069 (BNL-50276)
neutron cross sections and strength functions for, collective and optical model analysis of, (E/T), 22:35337
neutron elastic scattering at 154 to 555 eV, cross section and resonance parameters for, (E), 24:52583
neutron elastic scattering by, Legendre expansion coefficients of angular distributions for fast, (T), 22:22523 (NAA-SR-12533)
neutron inelastic scattering at 0.18 to 14.8 MeV with isomeric excitation, activation cross sections for, (E), 22:24851 (AECL-3043)
neutron inelastic scattering at 14.2 MeV, cross sections for isomer excitation by, (E), 21:33964 (NP-16748)
neutron inelastic scattering at 180 keV to 4.6 MeV, isomeric cross section for, 23:52151
neutron inelastic scattering with isomeric activation, cross section for fast, (E), 23:5867 (KURRI-TR-42)
neutron inelastic scattering with isomeric excitation, cross section for fast, (E), 22:7705
neutron reactions (n,2n) at 10 to 20 MeV, excitation functions and isomeric cross-section ratios for, (E), 25:5766
neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
neutron reactions (n,2n) at 14.4 MeV, activation cross sections for, (E), 24:24575
neutron reactions (n,2n) at 14.7 MeV, cross sections for, (E/T), 25:23018 (AWRE-O-76/66)
neutron reactions (n,2p) at 15 MeV, activation cross section for, (E), 23:10965
neutron reactions (n,3n) at 18 to 20 MeV, excitation functions for, (E), 25:5766
neutron reactions (n,3n) at 19.5 MeV, statistical analysis of cross sections for, (E/T), 22:50642
neutron reactions (n,α) at 14 MeV, angular distributions for, (E), 23:49332(R) (EANDC(E)-115(U))
neutron reactions (n,α) at 14 MeV, energy and angular distribution of alpha particles from, (E), 22:20617
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))

neutron reactions (n,γ) with, flat-crystal gamma spectrometer for studying spectra from, (E), 23:11824
neutron reactions (n,He-3) at 14.7 MeV, cross sections for, (E/T), 21:12072
neutron reactions (n,He-3) at 15 MeV, activation cross section for, (E), 23:10965
neutron reactions (n,He-3), (n,n'α), and (n,2p) at 14.8 MeV, cross sections for, (E), 23:7326
neutron reactions (n,n'α) at 15 MeV, activation cross section for, (E), 23:10965
neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 24:24574
neutron reactions (n,p) in fission spectrum, average cross section for, (E), 22:35300
neutron resonance activation integral for, (E), 24:3932
neutron resonance at 1.257 eV, parameters for, (E), 24:40630
neutron resonance parameters at 154 to 435 eV, from scattering and transmission measurements, (E), 23:5900
neutron resonance parameters from time-of-flight measurements of capture cross sections, (E), 23:1877 (NP-17644)
neutron resonance scattering and transmission measurements at 0.03 to 1.5 keV, (E), 23:5900
neutron resonances below 1400 eV, spin assignments and widths for, (E), 23:37138(R) (RPI-328-160)
neutron scattering and total cross sections and resonance parameters up to 4 keV, (E), 24:22135 (CEA-N-1149)
neutron scattering below 1400 eV, resonance parameters and spin assignments for, (E), 24:47660
neutron scattering cross section and resonance parameters at 40 to 700 eV, measurement using time-of-flight method, (E), 22:16000 (CEA-R-3360)
neutron scattering resonance parameters at 125 to 450 eV, (E), 22:20578 (WASH-1079)
neutron total cross section and resonance parameters at 100 eV to 1 MeV, (E), 22:18283
neutron total cross section at 100 to 650 keV, (E), 24:47637 (ANL-7610, pp 1-59)
nitrogen-14 reactions (N-14,C-11), (N-14,F-18), and (N-14,N-13) at 140 MeV, effective interaction in, (T), 22:27339
nitrogen-14 reactions (N-14,N-16) below 100 MeV, angular distributions, excitation functions, cross section dependence on nitrogen-14 binding energy, and boundary character of, (E), 25:23026 (JINR-P7-5494)
nitrogen-15 reactions (N-15,N-16) below 100 MeV, angular distributions, excitation functions, cross section dependence on nitrogen-15 binding energy, and boundary character of, (E), 25:23026 (JINR-P7-5494)
oxygen-16 inelastic scattering at 34 and 40 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:13260 (ANU-P-420)
oxygen-16 inelastic scattering at 34 and 40 MeV with Coulomb excitation, γ singles and coincidence spectra for, (E), 23:17126
photon reactions (γ,n) and (γ,2n) at 0.4 to 0.9 GeV, cross sections for, (E), 23:15473
photon reactions (γ,n) at 1 to 5.5 GeV endpoint energy, cross section for, (E), 23:19246 (DESY-68/57)
photon reactions (γ,n) at 1 to 5.5 GeV, cross section for, (T), 23:19315
photon reactions (γ,n) at 22 MeV, neutron angular distributions from, (E), 22:44656
photon reactions (γ,n) at 7.72 to 10.83 MeV, cross sections for monoenergetic, (E), 21:46711
photon scattering at 1.38 and 2.75 MeV with isomeric excitation, cross section for, (E), 24:35855
preparation of isomeric, equations and generator method for, 21:8407
production in power reactor spent fuel elements, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
production of 57-min isomer of, 22:33392
production of isomeric, by decay of palladium-103 fixed on anion exchanger, 24:33714
production of isomeric, by gamma inelastic scattering at 6 and 8 MeV, energy, half-life and specific activity measurements for, 21:35882
production of metastable, development and testing of isotope generators for, 25:46593 (EUR-4619)
proton inelastic scattering at 10 and 12 MeV, cross sections for, (E), 23:17126
proton inelastic scattering at 10 and 12 MeV, proton spectra and cross sections for, (E), 23:13260 (ANU-P-420)
proton inelastic scattering at 10 MeV, γ and proton spectra from, (E), 22:32513(R) (ANU-P-400)
proton inelastic scattering at 3.5, 4.0, and 4.5 MeV, γ spectra from, (E), 22:27152
proton reactions (p,2n) at 14.3 MeV, angular anisotropy of conversion electrons in, (E), 22:20645
proton reactions (p,2n) at 14.3 MeV, anisotropy of conversion electrons from vibrational levels in palladium-102 populated by, (E), 21:33963(R) (NP-16498)
proton reactions (p,α) at 5 to 13 MeV, excitation functions for, (E), 25:28268
proton reactions (p,pπ^{+-}) at 18 GeV, (E), 21:5503(R) (NYO-2897-17)
proton reactions at 670 MeV, deuteron momentum spectra from, (E), 24:52404
reactivity worths in fast reactor spectra, (E/T), 25:15350
separation from palladium-103 by ion exchange, 25:29413 (CONF-691225)
separation from radioactive wastes from fuel reprocessing, 22:40172 (KR-126, pp 267-78)
separation of isomeric, from palladium-103 by ion exchange, 23:45372
use as activation detector for measuring epithermal neutron spectra, 22:8348
use as activation detectors for neutron flux measurements in reactors, 21:41204 (EUR-3567.f)
use for fast neutron dosimetry, 22:6652 (ORNL-4168, pp 183-230)
use in threshold detectors for neutron spectra, spectral index for, 21:3269

RHODIUM ISOTOPES Rh-104
beta decay of ground state and isomeric, schemes for, (E), 21:27581
beta decay of ground-state and isomeric, gamma spectra from, (E), 23:46982 (CONF-690518-1)
beta decay of ground-state and isomeric, γ singles and coincidence spectra from, (E), 25:28382
beta decay of ground-state and isomeric, γ spectra from, (E), 25:23045
beta decay of ground-state and isomeric, γ spectra for, (E), 23:42916(R) (UR-3591-10)
beta decay of ground-state and isomeric, γ spectra from, (E), 25:48106
beta decay scheme for isomeric, (E), 23:28300 (NP-17819, Chap.3.2)
energy level transitions in, gamma intensities from, (E), 21:5539
energy levels from neutron absorption and scattering by rhodium-103 up to 3 keV, resonance parameters and spin assignments for, (E), 24:30833
energy levels from rhodium-103 neutron capture, low level occupation probability ratio for, (E/T), 24:47637 (ANL-7610, pp 1-59)
energy levels from rhodium-103 neutron capture, spin—parity assignments for, (E), 25:28437
energy levels from rhodium-103 neutron resonances, radiative widths for, (E), 24:22135 (CEA-N-1149)
energy levels from rhodium-103 resonance neutron capture, spin assignments for, (E), 25:12561
energy levels from rhodium-103 resonance neutron capture, spin assignments for, (E), 25:23043
energy-level transitions from rhodium-103 resonance and thermal neutron capture, (E), 23:1882 (WASH-1093)
gamma spectra of, 22:14525
gamma spectra of, from neutron reactions (n,γ) with rhodium-103, (E), 23:11824
neutron resonance scattering at low energy, (E), 21:19152(R) (TID-23685)
nuclear level density parameter for, calculation from isomeric cross-section ratio for neutron capture, (T), 22:32537
production of isomeric, in rhodium-103 (d,p) reactions, (E), 21:7760

RHODIUM ISOTOPES Rh-105
beta decay of ground-state and isomeric, β and γ energies and branching ratios for, (E), 24:1844
determination in fission product mixtures by radiochemical separation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
energy level of, description of anomalous $7/2^{+}$, (T), 25:31323
energy levels from palladium-108 (p,α) and ruthenium-104 (He-3,d) reactions, spin-parity assignments and spectroscopic factors for, (E), 25:3701
energy levels from palladium-108 (p,α) and ruthenium-104 (He-3,d) reactions, spin-parity assignments for, (E), 25:15022
energy levels of, lifetimes, spin assignments and transition multipolarities of, (E), 25:38954
energy-level spins and transitions from ruthenium-105 decay, (E), 21:23510
energy-level spins and transitions in, (E), 21:7807
gamma spectra of, 21:12285(R) (ORNL-4039)
gamma spectra of, coaxial lithium-drifted germanium spectrometer for measuring, 21:22156
half-life of, 23:46985 (JAERI-1178)
neutron capture cross section of, thermal, (E), 21:35491
neutron capture cross sections and resonance integrals of, 21:2707 (ORNL-3994, pp 1-26)
preparation by neutron irradiation of ruthenium, 21:32258
preparation of carrier-free, 24:36313
reactions of recoil, with metal—2,4-pentanedione complex, 23:38005
separation from fission products by reactions with ferrocene, 24:11549 (IA-1190, pp 93-122)
separation of carrier-free, from neutron-irradiated ruthenium, 21:4612
yield in thermal neutron fission of uranium-235, (E), 22:29983 (MIT-905-108, pp 1-32)
yields from bremsstrahlung reactions (γ,α) with silver-109 at 20 MeV, 23:10971
yields from spontaneous fission of uranium-238, cumulative, (E/T), 21:25541

RHODIUM ISOTOPES Rh-106
activity measurements for fuel burnup determination, 24:48863 (SGAE-PH-98/1970)
beta decay of ground-state and isomeric, β and γ energies and branching ratios for, (E), 24:1844
beta decay of ground-state and isomeric, γ spectra for, (E), 23:47019
beta decay of metastable, beta and gamma spectra, Q, and log ft of, (E), 25:31384
beta decay of, γ spectra for, (E), 23:23721
beta decay of, palladium-106 energy-level spins and transitions from, (E), 22:1700
beta decay of, palladium-106 energy-level transitions from, (E), 22:9869
beta decay of, testing CP invariance by $\beta\gamma\gamma$ correlations in, (T), 21:44424
beta decay of, time-reversal testing by β-γ-γ angular correlations in, (E), 22:53195
beta decay scheme of isomeric, γ spectra and γ—γ directional correlations for, (E), 22:35328
beta decay scheme of, 4π β—γ coincidence measurement of, 25:15914 (CEA-R-4131)
beta spectra, (E), 21:12048
content in algae in Black Sea, 21:36605
content in Bucharest atmosphere, 1964 to 1966, 22:51103
content in emissions from Redox 291-S Stack, 21:30659 (HW-67520)
content in fallout, use of γ-ray spectroscopy to measure, 21:36147 (NP-16800)
content in ground water and migration in soils from Hanford waste disposal, 21:36323 (BNWL-432)
content in ground waters at Hanford, 22:19085(R) (BNWL-687)
content in ground-level atmosphere near Moscow, 1962 to 1967, 24:11700(T) (AEC-tr-7128, pp 163-79)
content in Japanese rainwater following Chinese nuclear explosions, 24:9529
content in seawater, design of sensitive γ radiation detectors for determining, 22:2256
content of air, milk, rainwater, and vegetables in France during 1967, 22:6806 (SCPRI(RM)-IX-1967 and Suppl.)
content of atmosphere over Soviet Union during 1965 and 1966, 25:16065(T) (AEC-tr-7214, pp 70-81)
content of molluscs, plankton, and red algae in Japan, 23:2828
content of ruthenium-106 and, in fallout at Bucharest during winters of 1964 through 1966, 23:2217
content ratio to ruthenium-106 in Albany, Oregon, atmosphere, Dec. 1968 to June 1969, 24:14082 (RLO-1750-54, pp 20-4)
decay energies for, data evaluation for average beta and gamma, 23:5746 (AEEW-M-790)
detection of, in blood and testes of animals and humans, γ spectrometric method for, 21:12886
detection of, in marine alga Sargassum, 21:10737
determination in fission product solution by gamma spectrometry, 22:25455 (CEA-N-616, pp 295-368)
determination in irradiated MTR fuel by gamma spectrometry as measure of burnup, 25:46434 (FMRB-36/71)
determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
determination of ruthenium-106 and, in fallout, method for, 23:2217
determination of, in beta-gamma sources in presence of niobium-95—zirconium-95, 21:1241 (CEA-R-3033)
diffusion in bituminous materials and cements, 23:40967 (CEA-R-3751)
distribution and retention by lung tissues, in dogs following inhalation as oxide particles, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution in plutonia—urania pellets of, effects of stoichiometry on, 21:46027(R) (NUMEC-3432-35)
distribution of inhaled oxide particles of, in dogs, 21:14527 (BNWL-280, pp 59-62)
effects on cells in rabbit eye, β, 23:20374
effects on dogs following intravenous injection, pathological, 25:24418
effects on gastrointestinal tract of rats, pathological, 22:49331
gamma spectra, (E), 21:42647
gamma spectra, (E), 21:13857 (JINR-P6-2986)
gamma spectrum between 0.5 and 3.5 MeV, 21:2749
half life, (E), 21:19255
half-life of, 23:46985 (JAERI-1178)
hazards of ingested, effects of particle size and animal age on, 21:28586 (BNWL-SA-1144)
inhalation by rats, apparatus for, 25:6609(T) (AEC-tr-7169, pp 55-66)
inhalation by rats, dynamics of, 22:8538
monitoring in irrigation canal sediment and water downstream from nuclear power centers on Rhone River, 25:2543
passage through gastrointestinal tract of rats following gastric administration, effects of age on, 23:50305
retention in lungs of dogs, pathological effects of, 21:34650(R) (BNWL-322)
separation from irradiated uranium dioxide pellets by desorption using barium chloride bed, 25:21108
separation from water by slurrying with Yazoo and Zilpha clays, 22:25482
separation of neptunium from, by solvent extraction using tridodecylamine and ion exchange, 22:27848 (CEA-N-816, pp 359-414)
separation of plutonium and uranium from, by solvent extraction using TBP in dodecane, 22:25452 (CEA-N-616, pp 154-214)
separation of plutonium from, by solvent extraction using tridodecylamine, 22:25452 (CEA-N-616, pp 154-214)
sorption by algae, fish, and silts in Cattaraugus Creek in New York, effects of effluent from nuclear fuel reprocessing plant on, 23:45684
sorption by clays, diatomaceous earths, and synthetic aluminum oxides and silicates, 23:338 (CEA-R-3554)
sorption of, by manganese oxides in water works filter bed materials, 21:16006
uptake by corn, lettuce, and tomatoes, effects of soil fertility and time on, 21:32637 (CONF-661018, pp 36-52)
uptake by fish eggs, 24:50923
uptake of, by vegetables, effects of foliar or root application and soil conditions on, 21:12746 (CONF-651008-, pp 94-125)
use as source in beta backscatter method for measurement of egg shell strength, 22:21296
content of deer, fish, and racoon from Western New York Nuclear Service Center site, 24:31984 (DOCKET-50201-26)
rhodium-106—ruthenium-106, determination in water by beta counting using Cherenkov effect and liquid scintillation counter, 24:2142

RHODIUM ISOTOPES Rh-107
beta decay of, γ singles and coincidence spectra for, (E), 23:52158
energy level of, description of anomalous $7/2^{+}$, (T), 25:31323

RHODIUM ISOTOPES Rh-108
half-life of isomeric, from palladium-108 (n,p) reactions, (E), 23:46996

RHODIUM ISOTOPES Rh-109
nuclear properties of, Nuclear Data Sheets for, (E), 25:53757

RHODIUM ISOTOPES Rh-110
beta decay of 28 sec isomer of, β and γ singles and coincidence spectra for, (E), 24:35882

beta decay of isomeric, energy levels of palladium-110 from, (E), 25:23032(T) (ORNL-tr-2405)
beta decay of, half-life and gamma spectra for, 25:15001
half-life of isomeric, (E), 24:35882
half-life of isomeric, (E), 25:23032(T) (ORNL-tr-2405)
nuclear properties of, Nuclear Data Sheets for, (E), 25:36808
production and nuclear properties of, 25:15001
production of isomeric, from neutron reactions (n,p) with palladium-110 at 14 MeV, (E), 25:23032(T) (ORNL-tr-2405)
RHODIUM ISOTOPES Rh-116
decay and energy-level transitions following californium-252 fission, (E), 25:3673
RHODIUM SELENIDES
$RhSe_2$—$RuSe_2$, superconductivity in, critical carrier concentration for, 25:11844
RHODIUM SILICIDES
crystal structures of Rh_4Si_3 and Rh_3Si_4, 23:6757
RHODIUM OXIDES
deuterium exchange reactions between water-d_2 and alkyl benzenes on self-activated, 21:10322
electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
reactions of gaseous, with niobium oxides and titanium oxides, formation of ternary phases in, 23:40648
spectra of gaseous, at 1900 to 2100 deg K, 21:46(R) (GA-5611)
thermal stability and melting point of, effects of electronic configuration on, 21:22919
thermodynamic properties of, 21:13271
thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
RHODIUM SULFATES
decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
Rhodizonic Acid
see 5-Cyclohexene-1,2,3,4-tetrone, 5,6-Dihydroxy-
RHODOPHYTA
analysis by neutron activation, 23:4553
calcium content of marine, during 1964 and 1965, 22:10772
Chondrus cripsus, ruthenium-106 concentration by, in sea water aquaria, 24:21094 (CEA-CONF-1464)
Chondrus crispus, ruthenium content of, effects of physico-chemical form on, 23:24622
copper accumulation in, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
Corallina officinalis, cerium-144 uptake by, in seawater, 21:16305
Corallina officinalis, ruthenium content of, effects of physico-chemical form on, 23:24622
Corallina officinalis, ruthenium-106 concentration by, in sea water aquaria, 24:21094 (CEA-CONF-1464)
Corallina officinalis, ruthenium-106 uptake by, in seawater, 21:16305
Corallina sp., radioisotope content of Pacific Ocean, in environs of reactors, 25:55151 (CONF-710817-1)
ecology of benthic marine, at Amchitka Island, 23:26708 (BMI-171-115)
fission product scavenging from seawater by, 23:35353
Gelidiella acerosa, cesium-137 uptake by, from seawater in India, 23:14126
Gelidiella acerosa, radiation effects on strength of gel from dried, cobalt-60 γ, 22:10885
Gelidium micropterum, radiation effects on strength of gel from, cobalt-60 γ, 22:10885
Gelidium sp., radioisotope content of Pacific Ocean, in environs of reactors, 25:55151 (CONF-710817-1)
Gelidium sp., radioisotope content of, in Japan, cerium-144, cobalt-60, praseodymium-144, rhodium-106, and ruthenium-106, 23:2828
Gigartina sp., phosphorus-32 content of, in Columbia river, effects of Hanford reactors on ratio of phosphorus to, 24:690 (RLO-2047-5, App. A)
Gracilaria milardetii, radiation effects on agar production by, cobalt-60 γ, 23:50934
Gracilaria milardetii, radiation monitoring of, from coast of India, natural background, 22:28463
Gracilaria miliardetii, radiation effects on strength of gel from, cobalt-60 γ, 22:10885
Gracilaria millardeti, cesium-137 uptake by, from seawater in India, 23:14126
Haematococcus pluvialis, radiation effects on reproduction of, effects of DNA content and photoperiod on x, 22:31280
Hypnea musciformis, radiation effects on agar production by, cobalt-60 γ, 23:50934
Iridaea sp., phosphorus-32 content of, in Columbia river, effects of Hanford reactors on ratio of phosphorus to, 24:690 (RLO-2047-5, App. A)
manganese accumulation by, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
Phyllospadix sp., radioisotope content of Pacific Ocean, in environs of reactors, 25:55151 (CONF-710817-1)
Porphyra sp., plutonium content of, evaluation of hazards of, in marine food chain, 23:12107
Porphyra sp., plutonium content of, evaluation of hazards of, in marine food chain, 23:12107
Porphyra sp., radioisotope content of, in British coastal waters during 1968, 24:21099 (FRL-5)
Porphyra sp., ruthenium-106 content of, in relation to IRCP standards for MPC, 24:39467 (RLO-2225-T-1-1)
Porphyra umbilicalis, ruthenium-106 content of, in coastal waters near Windscale, England, 24:36750
Porphyra, radioactive contamination of, in vicinity of Windscale, 21:22463
Pterisiphonia sp., phosphorus-32 content of, in Columbia river, effects of Hanford reactors on ratio of phosphorus to, 24:690 (RLO-2047-5, App. A)
radioisotope accumulation by, in aquariums and natural ecosystems, cerium-144, cesium-137, and ruthenium-106, 23:26783
radioisotope concentration by tropical marine, 25:26597
radioisotope concentration factors for, in Japan, 24:34225
radioisotope content of, in Amchitka, Alaska, 25:16073(R) (BMI-171-113)
radioisotope uptake by, phosphorus-32 and zinc-65, (E), 22:12455(R) (EUR-3635)
Rhodomela sp., phosphorus-32 content of, in Columbia river, effects of Hanford reactors on ratio of phosphorus to, 24:690 (RLO-2047-5, App. A)
strontium-88 content of marine, during 1964 and 1965, 22:10772
strontium-90 concentration factor for, in Japan, 24:34225
strontium-90 content in marine, 23:35013
strontium-90 content of marine, during 1964 and 1965, 22:10772
strontium-90 uptake by, accumulation coefficient for, 24:9746
zinc accumulation by, in Sea of Azov, concentration factors for, 24:12027(T) (AEC-tr-7128, pp 30-8)
zirconium-95 uptake from seawater by, 21:16305
RHODOPSIN
radiation effects on content in retina, ionizing, 21:16447(T) (JPRS-38272, pp 189-90)
radiation effects on content of, in Hemigrapsus nudus eyes, comparison of light and β and x, 25:49272
radiation effects on toxicity of, to biological materials, 25:13374
radioinduced bleaching of, from cattle retinas, γ, 25:26910
RHOMETERS
design for measuring boron content in reactor coolants, 23:47880 (WCAP-3690-7)
design, development, and testing of temperature compensated, for monitoring impurities on liquid sodium, 24:33960 (APDA-247)
development for boron concentration measurements for pressurized water coolants, 23:47878(R) (WCAP-3690-5)
development for boron concentration measurements in pressurized water coolants, 23:47879(R) (WCAP-3690-6)
development for detecting voids in liquid metals, 23:731
development for determining nitric acid content, 23:28654 (DP-1186)
development of in-line, for detection of impurities in sodium, 24:39599 (APDA-259)
development of LMFBR liquid sodium, 24:13521(R) (APDA-242)
development of simultaneous two-sample, for measurements at high pressures, 22:43151 (FOA-4-4361-23)
development of temperature- and conductivity-compensated, 23:7891 (RISO-M-785)
evaluation for impurity measurements in sodium, 21:38434(R) (APDA-197)
performance for detecting impurities in sodium, 22:12953
performance in LMFBR sodium coolant, effects of impurities on, 23:28458(R) (APDA-234)
performance of prototype automatic temperature compensator, liquid sodium tests, 24:20552(R) (APDA-248)
performance of, effects of liquid sodium oxide (Na_2O) on, (E), 22:35423(R) (APDA-224)
response for determination of impurity levels in sodium coolants, 23:45571 (ANL-7520(Pt.1), pp 233-53)
response of sodium impurity monitoring, to sodium monoxide injections, (E), 22:47040(R) (APDA-228)
response to impurities in sodium, testing of, 21:38435(R) (APDA-204)
response to sodium impurities, 22:14129(R) (APDA-212)
responses of, tabular summary of perturbation, 21:35564(R) (APDA-193)
responses of, tabular summary of steady-state, 21:35564(R) (APDA-193)
tests of, tabular summary of sensitivity, 21:35564(R) (APDA-193)
RHYOLITES
analysis for elements, performance of lithium-drifted germanium detector for activation, 21:35868
crater formation in hard dry, from underground explosions, Project Pre-Schooner II studies of, 23:484 (PNE-513)
crater formation in, from underground nuclear explosions, 21:39073 (PNE-5009)
nuclear explosions in, equations for calculating elastic energy of contained, 25:287 (NVO-1163-208)
potassium content of Japanese liparite, 24:7518
pressure—volume relation for Nevada Test Site, data tabulations on, 23:21809 (UCRL-50578)
thorium content of Japanese liparite, 24:7518
uranium content of Japanese liparite, 24:7518
well logging in UCe-2, UCe-3, and UCe-16 drill holes in Stone Cabin and Monitor Valleys, Nevada, 23:28998 (USGS-474-9)
RIBITOL
radiolysis of aqueous solutions of, effects of acidity on deoxycompound and malonaldehyde yields from 10-MeV electron and γ, 24:38953
Riboflavin
see Vitamin B Group—riboflavin
RIBONUCLEASE
activation of, by γ-irradiation of ribosomes from Escherichia coli, 21:10803
activity in Arabidopsis thaliana mutant, 21:20116(R) (COO-1609-1)
activity in simulated Martian environment, protective and stabilizing effects of glycerin on, 23:35634(T) (JPRS-47582, pp 36-45)
binding of substrates and inhibitors to, crystallographic, 25:48507
complexes with copper, tritium exchange in, 23:24162
content of mutant and wild type Arabidopsis thaliana, assay of, 23:20173
content of tissues of tobacco plants, assay of, 25:16089(R) (EUR-4545)
deuterium exchange with hydrogen in, during dimer formation, kinetics of, 24:16956
effects on adsorption of labeled RNA by lymphoid cells, 21:16262 (USNRDL-TR-1080)
effects on antigenic conversions in polioviron, 21:45848
effects on growth of chick embryos, 22:28402 (ORNL-4100, pp 62-9)
effects on γ-radioinduced degradation of deoxyribonucleoproteins of rabbits, 25:13363
effects on immune reactions of bacteriophage, 21:39325(R) (NYO-3557-2)
effects on radioinduced mutations of Drosophila germ cells, 21:22396
effects on radiosensitivity of sperm of Drosophila, 22:40615(R) (EUR-3889)
effects on recovery from γ-radioinduced division delay in developing sea urchin eggs, 24:27607 (ANL-7615, pp 25-32)
effects on x-radioinduced degradation of RNA in Escherichia coli, 23:50368
effects on yeast cells, 21:22772
formation of aggregates in, effects of dihydrogen sulfide on γ, 24:11968
inactivation by light, effects of, on molecular structure, 22:14907 (COO-875-80)
inactivation by thermal hydrogen atoms as indirect radiation effect, 23:31656
isoaccepting pattern of Drosophila suppressor gene, 24:41149 (TID-25461)
luminescence in relation to tryosine components, 22:28289 (ORNL-4100, pp 178-201)
metabolism of iodine-labeled, in kidneys of mice, 22:38195(R) (NYO-3515-3)
molecular structure of, statistical evaluation of effects of electrostatic interactions on, 21:21845 (UCRL-50160)
molecular weight determination of, using ultracentrifugation, 22:16974(R) (ORO-2832-56)
photosensitization of, using 4-thiouridine-2'(3')-phosphate, 23:16224 (NIRS-7, pp 21-35)
proton collisions with, measurement of inactivation cross sections for elastic, 22:45508(R) (PG-Report-826)
radiation effects on activity of mouse lung, effects of influenza infection on, 21:36702
radiation effects on activity of, from mushrooms, γ, 24:48739
radiation effects on activity of, in cancerous uterus, γ, 21:45509
radiation effects on activity of, in corn seedlings, effects of seed exposure on x, 22:38499(T) (JPRS-44845)
radiation effects on activity of, in corn seedling roots, x, 21:30780
radiation effects on activity of, in cotyledons of peanut seeds, 22:31014
radiation effects on activity of, in human urine and vaginal fluid following therapy for cervical carcinomas, lymphomas, or tumors, 25:42683
radiation effects on activity of, in human vaginal fluids, in relation to protein concentrations radium γ, 24:21083
radiation effects on activity of, in liver of rats, whole-body x, 23:17946
radiation effects on activity of, in regenerating rat liver, whole-body x, 23:33882
radiation effects on activity of, in shoots of corn and radishes, effects of dose on x, 22:33977
radiation effects on activity of, in simulated Martian environment, protective effects of carotene and melanin against uv, 23:35634(T) (JPRS-47582, pp 36-45)
radiation effects on activity of, in tissues of rats, protective effects of cysteine and vitamin K_3 against whole-body γ, 22:10738
radiation effects on activity of, protective effects of cystamine against proton, 23:14232
radiation effects on activity of, proton, 23:10123
radiation effects on activity of, uv, 21:24346
radiation effects on aggregation and degradation of S-carboxymethylated and normal, γ, 23:215(R) (NYO-2735-9)
radiation effects on aggregation and degradation of S-carboxymethylated and normal, gamma, 25:23939(R) (NYO-2735-12)
radiation effects on amino acid content of, effects of dose on uv, 23:24565
radiation effects on amino acid content of, effects of dose on γ, 22:28378
radiation effects on bovine pancreatic, protective effects of substrate analogs against, 21:24446
radiation effects on bovine pancreatic, protective effects of substrate analogs against uv, 21:24294 (NIRS-5, pp 19-25)
radiation effects on composition and structure of, in aqueous solution, x, 22:33753
radiation effects on content of alkaline, in mucosa of rat intestine, role of neuroendocrine reactions in acute x, 22:49272
radiation effects on content of, in blood plasma of guinea pigs and rats in relation to content of tissues, whole-body x, 22:40538
radiation effects on content of, in human urine following radium and supervoltage therapy of cervical carcinomas, γ and x, 22:28325
radiation effects on content of, in intestinal homogenates of guinea pigs and rats, x, 23:50348
radiation effects on content of, in rat liver, internal gold-198 β and γ, 22:33957
radiation effects on cystine-sulfate bonds in, in relation to inactivation methods for determining uv, 24:23118
radiation effects on degradation of DNA by, effects of carbon-14 and tritium labeling on, 22:2485
radiation effects on frozen aqueous solution of, electron spin resonance study of uv, 22:45409
radiation effects on inactivation of, role of water content in x, 23:13785

- radiation effects on intermolecular crosslinks and polypeptide chain breaks in, gel filtration studies on uv, 25:32361
- radiation effects on metabolism of, in liver and thymus of mice and rats, effects of corticosteroids and inhibitors on x, 23:45657
- radiation effects on molecular structure of, γ, 21:43354
- radiation effects on molecular structure of, γ, 21:28408
- radiation effects on molecular weight of components of protein molecules in, γ, 22:23408(R) (NYO-2735-8)
- radiation effects on molecular weight of, mechanism of uv, 25:37737
- radiation effects on molecular weight of, use of gel filtration to study uv, 25:26658
- radiation effects on physicochemical properties of crystalline, γ, 22:36223
- radiation effects on reactions of, with polyribonucleotides, electron, 23:9887
- radiation effects on S-peptide of, in aqueous solution, x, 21:45537
- radiation effects on structure of bovine pancreatic,, 23:9831 (NP-17514, pp 5-24)
- radiation effects on structure of crystalline, γ, 22:30990
- radiation effects on structure of, gel filtration analysis of γ, 22:33738
- radiation effects on structure of, gel filtration studies on uv, 25:26661
- radiation effects on synthesis of, in germinating wheat, effects of gibberellic acid on γ, 25:35102
- radiation effects on transport of, from microsomes to mitochondria of rats, x, 23:43695
- radiation effects on tritium exchange in, combined effects of dose and temperature on γ, 24:44418
- radiation effects on tyrosines of, mechanism of uv, 25:37738
- radiation effects on ultraviolet absorption spectra of, uv, 21:24346
- radiation effects on, at 77°K, ESR studies on free radicals produced in electron and heavy ion, 24:38923
- radiation effects on, combined effects of uv and x, 24:7749
- radiation effects on, effects of copper ions, hydrogen sulphide, oxygen and vacuum on γ, 22:25767
- radiation effects on, ESR analysis of fast neutron, γ, and proton, 22:12820
- radiation effects on, ESR spectra of x, 22:49261
- radiation effects on, in ethylene glycol and water, effects of dose and temperature on uv, 22:51352
- radiation effects on, in phi X 174 bacteriophage, molecular mechanisms for, 23:38892
- radiation effects on, in vacuo as compared to hydrogen sulfide atmosphere, γ, 23:24527
- radiation effects on, protective effects of cystamine and low temperature against fast and slow proton, 23:24532
- radiation effects on, protective effects of cysteine and 4-amino-1-naphthol against high dose γ, 23:24512
- radiation effects on, protective effects of metal ions and EDTA against x, 23:31646
- radiation effects on, role of analytic methods in cobalt-60 γ, 23:29349
- radioinduced decrease in activity of, uv, 21:26380
- radioinduced dimer formation in, effects of dose, oxygen, and temperature on γ, 22:45423
- radioinduced hydrogen transfer in, effects of temperature and scavengers on yields from γ, 25:41837
- radioinduced inactivation of bovine pancreatic, mechanism for γ, 22:4574
- radioinduced inactivation of, comparison of, for α, deuterons, γ, and protons, 24:48437
- radioinduced inactivation of, comparison with photodynamic inactivation, γ, 23:20114
- radioinduced inactivation of, conformational changes associated with uv, 25:55137
- radioinduced inactivation of, effects of dose and temperature on γ and proton, 22:45424
- radioinduced inactivation of, effects of energy level of charged particle on proton, 22:25781
- radioinduced inactivation of, effects of oxygen deficiency and pH on charged particle and x, 22:25915
- radioinduced inactivation of, effects of water content on x, 22:30972
- radioinduced inactivation of, γ, 23:13782
- radioinduced inactivation of, in oxygen-free solution, protective effects of cysteine, ethanol, glycerol, and histidine against charged particle and x, 22:25915
- radioinduced inactivation of, in relation to disruption of cystine molecules, uv, 23:41230(R) (TID-25133)
- radioinduced inactivation of, in relation to stopping power of low energy electrons, α, deuteron, γ, and proton, 24:44415 (EUR-4452, pp 529-39)
- radioinduced inactivation of, low energy electron, 22:43300 (AERE-PR/HPM-12)
- radioinduced inactivation of, low-energy proton, 25:21589
- radioinduced inactivation of, mechanism for γ, 22:6763
- radioinduced inactivation of, mechanism of effects of sulfur and tyrosine on, 25:16034
- radioinduced inactivation of, slow proton, 22:12818
- radioinduced luminescence of, x, 22:12365
- radioinduced mutations for inhibition of, in Neurospora crassa, uv and x, 24:7804
- radioinduced thermoluminescence in, effects of water content on x, 23:41243
- radiolysis of dry, effects of dose on hydrogen transfer following γ, 25:6654
- radiolysis of dry, effects of temperature on reactions and yields of free radicals from γ, 23:31368
- radiolysis of dry, in presence of tritium-labeled hydrogen sulfide, effects of temperature on distribution of carbon radicals following γ, 25:6651
- radiolysis of, effects of cupric ions on γ, 21:36032
- radiolysis of, identification of products from γ, 23:13782
- radiolysis of, reduction of sulfur bridges following pulse, 24:44423
- radiolysis of, use of tritiated hydrogen sulfide in determination of free radicals from γ, 22:8144
- radiosensitivity of dry, at 90 to 300°K, 21:20047
- radiosensitivity of, effects of copper ions on, 22:23398 (IA-1128, pp 147-55)
- reactions with atomic hydrogen, 22:35733 (NYO-3242-26)
- reactions with atomic hydrogen in aqueous solution, mechanism of, 21:39332
- reactions with atomic hydrogen in comparison with effects of ionizing radiation, inactivation, 23:35654
- reactions with hydrated electrons, effects of conformation of molecules on reaction rate for, 22:30996
- reactions with hydrogen atoms in aqueous solutions, yields of sulfur-containing amino acids in, 22:48878(R) (NYO-3242-29)
- reactions with radiolytic hydroxyl radicals and hydrated electrons, effects of temperature on rate constants for, 23:47521
- separation from mixed tRNA feed by column extraction using diethylaminoethyl cellulose, 22:27864 (ORNL-4204, pp 16-21)
- spectra at 77°K, absorption and circular dichroism, 25:18316 (UCLA-12-806)
- structure of side chain of bovine, 22:14905 (BNL-50057, pp 111-22)
- tyrosines of, interacting with ATP, 22:28289 (ORNL-4100, pp 178-201)
- use of pancreatic, to excise photoproducts from uv-irradiated polyuridylic acid, 21:20066
- glycylglycine—ribonuclease, radiation effects on, at 77°K, ESR studies of x, 21:38985

Ribonuclease, Deoxy-
- see Deoxyribonuclease

Ribonucleic Acid
- see Nucleic Acid, Ribo-

Ribonucleic Acid, Deoxy-
- see Nucleic Acid, Deoxyribo-

Ribonucleosides
- see Nucleosides

RIBOSE
- content of irradiated fish, 24:2853
- content of rat liver, effects of radioprotective substances on, 24:12108
- effects on outgrowth and toxin production of Clostridium botulinum type E in irradiated cod and haddock fillets and in trypticase-peptone medium, 23:24779 (TID-24881)
- effects on x-radiosensitivity of carbon dioxide production by yeasts, 22:8657
- radiation effects on content of, in fish, 23:41522 (TID-24317, pp 104-15)
- radiation effects on formation of, in rats, x, 21:10750
- radiation effects on NMR spectra of, uv and γ, 21:24319
- radiation effects on solutions of, formation of malonaldehyde by γ, 24:218
- radiation effects on, effects of dose on γ, 23:17960
- radiolysis of aqueous solutions of, effects of acidity on deoxycompound and malonaldehyde yields from 10-MeV electron and γ, 24:38953
- radiolysis of frozen aqueous solutions of, at -78 and -196°C, EPR spectral studies on γ, 23:11559
- radiolysis of frozen aqueous solutions of, epimerization reactions following γ, 24:6002
- radiolysis of, yield of deoxy compounds from electron or γ, 22:42750
- structure of, determination by nuclear magnetic resonance, 24:41949 (ANL-7635, pp 229-91)
- 2'-DEOXY-, radioinduced destruction of, in DNA of T4 bacteriophage, protective effects of cysteamine and 5-bromouracil incorporation against uv, 21:41451

RIBOSE, DEOXY-
- radiation effects on excretion of, by rats, effects of dose on x, 25:24047
- radiation effects on excretion of, in mouse and rat urine as indicator of radiation injury, 25:42622
- radiolysis of aqueous solutions of, products from electron pulse, 25:57930
- radiolysis of, reactions of hydroxyl radical in electron pulse, 23:47527
- deoxyribose—thymine, radiation effects on, γ, 23:13784

RIBOSE, 2-DEOXY-
- radiolysis of aqueous solutions of, γ, 22:30984
- radiolysis of aqueous solutions of, yields from γ, 25:8305
- radiolysis of chilled aqueous solutions of, thermal properties of radicals from, 23:11548
- radiolysis of single crystal and polycrystalline, ESR study of free radicals from γ, 24:9385

RIBOSE, 5-DEOXY-
- phosphate, reactions with hydrogen atoms, 23:21727 (AI-AEC-12744, pp 179-82)

RIBOSE, 5-PHOSPHATE-1-PYROPHOSPHATE
- radiation effects on synthesis of, in erythrocytes of rabbits, x, 25:32544

RIBOSE PHOSPHATES
- effects on NAD synthesis in erythrocytes of whole-body x-irradiated rabbits, 25:32544
- radioinduced spin transfer in, protective effects of cysteamine against x, 23:9833(R) (NYO-910-69)

RIBOPHOSPHATE PYROPHOSPHOKINASE
- radiation effects on activity of, in erythrocytes of rabbits, whole-body x, 25:32544

RIBOSOMES
- analysis of proteins in, isolated from tissues of mammals, 22:38193(R) (EUR-3912)
- binding of pulse-labeled RNA to, in E. coli, effects of magnesium-ion concentration on, 21:6409
- binding with uv-irradiated polyuridylic acid, 21:26384
- biophysical studies on, 21:8678 (ORNL-3999, pp 166-75)
- complexes with messenger RNA during synthesis of proteins, 22:51302(R) (HUX-2643-42)
- content of Escherichia coli, isolation and determination of properties of, 22:38193(R) (EUR-3912)
- content of immature, in Escherichia coli, effects of, on RNA synthesis, 22:12158 (BNWL-480, pp 107-26)
- content of poly-, in fetal rat liver, properties of, 22:28287 (ORNL-4100, pp 160-4)
- content of RNA in, of lens cells, 22:28283 (ORNL-4100, pp 75-96)
- content of spleen in rats, isolation of, for determination of immune reactions, 22:28286 (ORNL-4100, pp 153-9)
- dissociation of rat liver, effects of ethanol, formamide, temperature, and urea on, 22:7953(R) (NYO-910-61)
- effects of γ-irradiated, from Escherichia coli on activation of ribonuclease, 21:10803
- effects of trypsin on, of Escherichia coli and rabbit reticulocytes, 21:22231 (ACRH-26, pp 106-14)
- effects of, on binding ability and stability of microsomes from rat liver, 21:10791
- effects on recovery of x-irradiated amoebas after transplants with hyalin, 23:45876 (ANL-7535, pp 69-73)
- function and structure of, conference on, 24:31933
- isolation by zonal centrifugation, method for, 22:48809 (UCRL-50414)
- isolation of low molecular weight RNA from, in liver cells of rat, 21:47053(T) (LA-tr-67-90)
- isolation of, from fruit tissues, 21:6711(R) (UCD-34-P-112-28)
- isolation of, from mycelia of fungi, methods for, 22:25206(R) (COO-1301-5)
- messenger RNA in, tracer study of, 23:45617
- molecular weight and sedimentation coefficients of proteins and subunits of, isolated from rat liver, 24:7385(R) (NYO-910-126)
- phagocytosis in liver and spleen of mice, 22:19235(R) (COO-1282-1)
- production of poly-, by Escherichia coli mutants, effects of actidione on, 22:28286 (ORNL-4100, pp 153-9)
- properties in chloroplasts of Chlamydomonas, 22:7953(R) (NYO-910-61)
- protein structure of isolated, from cells of Escherichia coli, liver, and reticulocytes, tracer study of, 21:45772(R) (ACRH-27)
- protein synthesis in, effects of deuterium oxide substitution for water in polyuridylic acid-directed, 24:27512
- radiation effects on abundance of, in neoplastic cells of mouth, γ, 22:36196
- radiation effects on activity of, in silkworm larvae, carbon-14 tracer study of cobalt-60 γ, 23:6388
- radiation effects on content of, in cells of hamsters, following inhalation or intravenous injection of cerium-144, β and γ, 24:34626 (LF-41, pp 192-202)
- radiation effects on content of, in mammary tumor cells of mice, x, 22:36360
- radiation effects on control of protein synthesis by, in cultured hamster cells, x, 24:50744
- radiation effects on formation of poly-, in liver of adrenalectomized and normal rats, x, 23:41244
- radiation effects on formation of poly-, in liver of adrenalectomized and normal rats, local and whole-body x, 25:16029
- radiation effects on function of, in regenerating liver of rats, x, 23:9840(R) (ORO-3295-4)
- radiation effects on interaction of polyuridylic acid with, in vitro uv, 21:26336
- radiation effects on metabolism and sedimentation coefficients of, x, 24:51065
- radiation effects on pattern of poly-, in liver of rats, combined effects of adrenalectomy on γ, 24:32225
- radiation effects on polysomal, in KB cells, laser, 21:11079
- radiation effects on protein synthesis by chicken embryo liver, phosphorus-32 β, 24:32213
- radiation effects on protein synthesis by fractions of liver, in rats, subsequent whole-body γ, 25:27006
- radiation effects on protein synthesis by liver, of guinea pigs, acute x, 23:4899
- radiation effects on protein synthesis in, of E. coli, uv, 21:43327
- radiation effects on structure of, electron microscopy of x, 22:45388
- radiation effects on synthesis of polyphenylalanine in, of Escherichia coli, uv, 24:50763
- radiation effects on synthesis of polyphenylalanine by, in the presence of polyuridilic acid, uv, 24:48393(T) (ANL-Trans-844)
- radiation effects on synthesis of proteins by, from Escherichia coli, γ, 22:33993
- radiation effects on synthesis of RNA by, in Pisum, cesium-137 β and γ, 22:47469
- radiation effects on synthesis of RNA precursor, in yeast, uv, 25:55138
- radiation effects on synthesis of, in pear fruit cells in relation to intracellular repair mechanisms, effects of dose on γ, 24:14625
- radiation effects on synthesis of, in pear fruits in vivo, combined effects of age and dose on γ, 23:29346(R) (UCD-34-P-112-41)
- radiation effects on synthesis of, in pears, effects of age and climacteric on γ, 24:31862
- radiation effects on uptake of amino acids by, in cotyledons of peanut seeds, x, 22:31014
- radiation effects on, in Azotobacter, x, 22:19259
- radiation effects on, in cells of intestinal mucosa of mice, whole-body x, 23:29352
- radiation effects on, in cells of thyroid gland transplants of rats, effects of dose on x, 22:12813
- radiation effects on, in epithelium of duodenal crypts of mice, x, 21:11042
- radiation effects on, in regenerating rat liver, whole-body x, 22:45388
- radiation effects on, of plants, x, 23:29343(R) (COO-1313-22)
- radiation effects on, of starved Escherichia coli, uv, 23:33641
- radiation effects on, of yeast, effects of temperature on x, 23:5058
- radiation injuries to, in rat liver, repair mechanisms for fast neutron, 23:9895

  - radioinduced degradation of, in Escherichia coli, effects of arginine depletion on uv, 24:36698(R) (NYO-3893-15)
  - radioinduced dissociation of 30S and 50S, in Escherichia coli, uv, 24:2837
  - radioinduced dissociation of yeast, effects of magnesium ions on x, 25:26633
  - radioinduced dissociation of, from Escherichia coli, protective effects of magnesium and β-mercaptoethanol against γ, 22:33993
  - radioinduced inactivation of binding and transfer capacities of, of Escherichia coli, effects of dose on γ, 24:34103
  - radioinduced inactivation of RNA binding to, uv, 21:6459
  - radioinduced inactivation of, in Escherichia coli, effects of messenger RNA binding on uv, 23:9896
  - radioinduced inhibition of polyphenylalanine synthesis in, of Escherichia coli, uv, 22:4568
  - radioinduced lesions of electron microscope studies of, 21:14714
  - radiosensitivity of 30S, effects of dose on β, 24:50762
  - radiosensitivity of Escherichia coli, in comparison to bacteriophage f2, γ, 25:44977
  - regenerating lens, differential effects of actinomycin on, 21:10236 (ORNL-3999, pp 65-78)
  - removal of, from Tetrahymena, 21:10237 (ORNL-3999, pp 125-6)
  - ribonucleic acid from liver, function and structure of, 22:14906 (BNL-50057, pp 123-37)
  - staining of poly-, of cultured mammalian cells and sea urchin eggs, evaluation of methods for, 22:25712 (COO-78-163, pp 39-63)
  - synthesis in Amoeba proteus, phosphorus-32 tracer study of, 23:29302
  - synthesis in bacteria, control of, 22:28273 (ANL-7278, pp 219-49)
  - synthesis in pear fruits, effects of age on rate of, 23:29346(R) (UCD-34-P-112-41)
  - use of iodine-125-labeled, to study synthesis of antibodies in rats, 22:28286 (ORNL-4100, pp 153-9)
  - x-ray-diffraction analysis of, in beef pancreas, 21:25805

- RIBULOSEDIPHOSPHATE CARBOXYLASE
  - activity in radioinduced albino mutants of barley, 24:41818
  - molecular structure of, determination of changes in, by magnetic circular dichroism, 21:22242 (UCRL-17200)
  - radiation effects on activity of, in beans and oats, carbon-14 tracer study of infrared, 24:42025 (ANL-7635, pp 303-12)
- Rice (Oryza)
    - see Oryza under Angiospermidae
- Rice (the commodity)
    - see rice under Cereals
- RICHLAND AREA (WASH.)
  - aerial surveying of, using infrared imaging equipment to determine thermal distribution over land and water areas, 21:26554(R) (BNWL-370)
  - aerial surveying of, using infrared imaging equipment to determine thermal distribution over land and water areas, 21:28427(R) (BNWL-335(Rev.))
  - atmospheric turbulence measurements at, 21:41046 (BNWL-SA-1403)
  - atmospheric turbulence spectra at, measurement of, 23:9563 (BNWL-715-3, pp 113-20)
  - basalt bedrock formations in, refraction seismic method for location of, 22:25494 (BNWL-481-3, pp 5-10)
  - basalt stratigraphy of Pasco Basin, well logging methods for determination of, 23:11638 (BNWL-715(Pt.4), pp 13-17)
  - beetle distribution on Hanford Reservation, effects of elevation on ground-dwelling, 22:10739 (BNWL-480, pp 127-51)
  - bibliography on ecology of, 25:24072 (BNWL-1549)
  - bismuth-207 content in atmosphere in, Sept. to Oct. 1966 from nuclear tests, 23:11444 (BNWL-481-2, pp 1-126)
  - cesium-137 content in grasses in environs of, 21:34650(R) (BNWL-322)
  - climatological instrumentation on Arid Lands Ecology Reserve, 25:48657 (BNWL-1551(Vol.2)(Pt.1), pp 171)
  - climatology of, use of growth ring widths of sagebrush as indicator of pre-1913, 24:39074 (BNWL-1307(Pt.1), pp 132-3)
  - contaminant diffusion and trajectory in atmosphere over, mesoscale studies on, 24:39055 (BNWL-1307(Pt.1), pp 29-34)
  - contamination of atmosphere at, by chemicals, 22:6793 (BNWL-564)
  - ecology as exposed at Rattlesnake Springs, interrelationships of geologic formations and processes affecting, 25:31686 (BNWL-B-29)
  - ecology of Canada geese during 1950 through 1970 at, 25:37745(R) (BNWL-1550(Vol.1)(Pt.2))
  - ecology of Pasco Basin, palynological and paleoecological studies of, 23:11637 (BNWL-715(Pt.4), pp 8-12)
  - environmental radiation exposures in, 22:18964 (BNWL-SA-1606)
  - environs monitoring at, dose estimates from, 22:16705 (BNWL-SA-1452-A)
  - environs monitoring during 1965, 21:34649 (BNWL-316(App.))
  - environs monitoring during January to July 1967, 22:19326 (BNWL-665)
  - environs monitoring, during 1966, 21:24402(R) (BNWL-391)
  - geologic formations in, study of earthquake incidence from, 22:25493 (BNWL-481-3, pp 3-5)
  - geology of, 21:26554(R) (BNWL-370)
  - gravity field measurements in, relation to basalt formations, 22:25495 (BNWL-481-3, pp 10-14)
  - ground water contamination at, effects of low-level radioactive waste disposal on, 25:48601 (BNWL-SA-3744)
  - ground water contamination at, from plant waste disposal, 24:7609 (BNWL-1233)
  - ground water contamination at, from plant waste disposal, 23:13854 (BNWL-984)
  - ground water contamination at, Jan. through June 1970, 25:23704 (BNWL-1539)
  - ground water contamination at, July through Dec. 1969, 24:31472 (BNWL-1392)
  - ground water contamination at, surveillance of, 22:40208 (BNWL-835)
  - ground water flow in, field evaluation of methods for prediction of, 22:21179 (BNWL-SA-1596)
  - ground water flow system in, predicted effects of Gable Mountain Irrigation Project on, 25:34715 (BNWL-1502)
  - ground water flow systems of, survey on, 21:26554(R) (BNWL-370)
  - ground water table level in, STEADY computer program for predicting effects of irrigation on, 22:25497 (BNWL-481-3, pp 18-23)
  - groundwater contamination at, from plant waste disposal, 23:33261 (BNWL-1047)
  - iodine-131 content of atmosphere in, during 1967, 23:33702 (BNWL-983(App.))
  - iodine-131 content of beef thyroid in, during 1967, 23:33702 (BNWL-983(App.))
  - iodine-131 content of water supplies of, in relation to thyroid dose of human children, 22:19326 (BNWL-665)
  - iron-55 content of man in, during 1968 in relation to atmospheric fallout peak, 23:50456 (BNWL-1051(Pt.2), pp 73-5)
  - land requirements and radioactive waste management at, 24:46455 (ARH-SA-65)
  - land requirements for, development of criteria for, 23:11647 (ISO-668)
  - landslides in Pasco Basin, causes and significance of, 23:11634 (BNWL-715(Pt.4), pp 1-2)
  - meteorology studies at, aircraft instrumentation for boundary layer, 24:39057 (BNWL-1307(Pt.1), pp 36-41)
  - phenology on ALE Reserve in, effects of climate on, 24:39075 (BNWL-1307(Pt.1), pp 133-4)
  - plant facilities in, plutonium-239 content and particle size distribution in air of, 22:25568 (BNWL-481-3, pp 97-101)
  - precipitation on Arid Lands Ecology Reserve from summer thunderstorm series, 25:48655 (BNWL-1551(Vol.2)(Pt.1), pp 168-9)
  - precipitation patterns on Arid Lands Ecology Reserve, 25:48654 (BNWL-1551(Vol.2)(Pt.1), pp 166-7)
  - radiation dose to human population of, during 1964 and 1968, effects of operations on, 25:6661 (BNWL-SA-3203)
  - radiation dose to population in vicinity of, use of dietary habits for estimating, 22:51560 (BNWL-706)
  - radiation dose to population of, from controlled release of radioactive waste at Hanford, 25:16129 (BNWL-1505)
  - radiation doses to populations in, criteria for estimating, 23:33703 (BNWL-1019)
  - radiation dosimetry for, during 1967, 23:33702 (BNWL-. 983(App.))
  - radiation monitoring during 1969, 25:16075 (BNWL-1505(App.))
  - radiation monitoring in environs of, during 1966, 22:10755(R) (BNWL-439(App.))
  - radiation monitoring of area during 1968, 25:521 (BNWL-1341(App.))
  - radiation monitoring of environment in, during 1968, 24:50872 (BNWL-1341)
  - radiation protection standards and controls of Atlantic Richfield Hanford Company for human population in, manual of, 24:4632 (ARH-220)
  - radioactive contamination of environs from plant facilities in, measurement of dose to man from, 23:24626
  - radioactivity in ground-level atmosphere at, measurements of, 1962 to 1968, 22:25523 (BNWL-SA-1739)
  - radioactivity monitoring during 1968, 25:52055
  - radioactivity monitoring in drinking water in, during 1967, β, 23:33702 (BNWL-983(App.))
  - radioactivity monitoring in environs of, during 1967, 24:2605
  - radioactivity of, environs of, 1965, 21:8790 (BNWL-316)
  - radioisotope contamination of environment in, 23:29464 (BNWL-983)
  - radioisotope content of commercial food and farm produce in, during 1967, 23:33702 (BNWL-983(App.))
  - radioisotope content of drinking water in, during 1967, 23:33702 (BNWL-983(App.))
  - radioisotope content of oysters from Willapa Bay, during 1967, 23:33702 (BNWL-983(App.))
  - radioisotope content of upland game birds and waterfowl in, during 1967, 23:33702 (BNWL-983(App.))
  - radioisotope monitoring of, during December 1968, 23:29463 (BNWL-778-12)
  - radioisotope transport through food chain to man in, 24:7783
  - seismic activity at Hanford Reservation, evaluation of past and present, 24:20972
  - seismic activity in Pasco Basin, geophysical evaluation of past, 23:11635 (BNWL-715(Pt.4), pp 2-4)
  - waste disposal at, mathematical model for predicting ground water contamination from, 25:8345 (BNWL-SA-3494)
  - waste disposal near, monitoring of ground water contamination from, 21:24185 (ISO-SA-32)
- RICKETTSIA
  - Anaplasma marginale, radiation effects on infectivity of, 23:31999
  - Coxiella burnetii, radiation effects on antigenicity of, in guinea pigs, x, 22:51469
  - infectivity of Haemobartonella muris, in radiation chimeras, 21:41506
  - mouse typhus, radiation effects on cultures of, solar uv, 22:33984(T) (JPRS-41315, pp 44-50)
  - radiation effects on course of infection by typhus, in rats, whole-body x, 21:18170
  - radiation effects on course of infection by typhus, in rat, whole-body x, 21:18169
  - radiation effects on infectivity of Anaplasma, in splenectomized calves, γ, 21:28696
  - radiation effects on rat immunity to Rickettsia prowazekii, x, 21:18180
- RIFAMYCIN
  - effects on γ radiosensitivity of Escherichia coli, 24:2840
- RINGHALS POWER REACTOR, UNIT 1
  - configuration of 750 MW(e), description of planned, 23:1990
  - description of, 23:4159
  - design parameters of, 23:45030
  - design parameters of, 23:45031
  - design parameters of, 24:22243
  - design parameters of, 24:22245
- RING CURRENT
  - analysis of asymmetric twilight, during Mar. 13—15, 22—25, and 28—29, 1966 magnetic storms, (E), 25:43241
  - characteristics during magnetic storms, (T), 24:12700
  - correlation to low-latitude magnetic bays on Earth's surface and at satellite position, (E/T), 25:11779
  - development during Dec. 24, 1966 magnetic storm, correlation with charged particles with large pitch angles, (E), 25:47444
  - disturbance in, effect of magnetospheric magnetic storm generation on, (E), 25:30400
  - effect of dimensions of, on results of deep sounding using magnetic storms, (T), 25:33151
  - effect of east—west electric field on electron density and vertical F-layer motion during magnetic storms, (E), 25:1057
  - effect of intensity of, on day and night boundary of auroral oval, (E), 25:16998
  - effect on charged-particle trajectories responsible for auroral display, extraterrestrial, (T), 25:5032
  - effect on magnetic field intensity, virial theorem for study of, (T), 24:51529
  - effect on magnetopause motion, (E/T), 25:7300
  - effect on magnetospheric magnetic field, (T), 25:9342
  - effect on position of auroral zone absorption, (E), 24:21659
  - effect on quiet day variations at Earth's surface magnetic field, (T), 25:7296
  - effect on quiet-time geomagnetic field diurnal Sq variations, (E), 25:45370
  - effect on threshold rigidity during magnetic storm of Mar. 23-24, 1969, (E/T), 24:51469
  - effects of large, on topology of magnetosphere, (T), 24:35298
  - effects on ion-cyclotron wave turbulence, SAR arc formation at plasmapause from, (T), 25:43242
  - effects on magnetic field at ATS 1 during magnetic storms, Jan.—June 1967, /E/T), 25:11785
  - energy injection into, during magnetic storms, (E), 24:6465
  - enhancement characteristics during extremely quiet magnetic conditions, 1932—1969, (E), 25:27518
  - formation of, mechanism responsible for magnetospheric inflation, (T), 25:27627
  - increases in outer radiation belt proton, detection of, 24:17810
  - intensity of, relation with Pc2, -3, and -4 geomagnetic field pulsations, (E/T), 25:9353
  - location of magnetospheric, (T), 25:58854
  - model for stormtime, (E/T), 24:32739
  - model of three-dimensional asymmetric, from magnetospheric substorm, 24:42573
  - origin of proton aurorae in, (T), 25:35995
  - origin of storm-time, (T), 24:26072
  - origin of, (E/T), 25:5025
  - plasma instabilities in magnetospheric, review of, 25:58895
  - position near local midnight and magnetic equatorial plane, interrelation with near-Earth plasma sheet, (E), 25:27631
  - proton energy spectra in, at L = 5.35 and 5.71 at low magnetic latitudes, July 1, 1966, (E), 25:11786
  - proton injection from, into outer radiation zone, (E), 24:10421 (N-69-39675)
  - proton injection into outer radiation zone from, during magnetic storms, (E), 24:10419(R) (AD-695399)
  - proton loss during magnetic storms, mechanism of turbulent, (E/T), 25:43210 (AD-715260)
  - proton loss during magnetic storms, mechanisms of turbulent, (E/T), 24:47139
  - relation of location of, to magnetospheric field lines leading to SAR arcs, (E/T), 25:30376
  - relation to plasma sheet, trapping boundary, and plasmapause near magnetic equator and local midnight, (E), 25:16877 (AD-710768)
  - stabilities of, low-frequency interchange, (E/T), 24:51508 (N-70-30120)
  - stability of, effect of low-frequency electrostatic pertubations on, (E/T), 24:39939
  - variations of, effects of substorms on, (E), 25:7232
- Rio Arriba Burst
    - see Hardtack Operation-Phase II
- RIOMETERS
  - performance of three-frequency, during 1968 auroral absorption events, 24:37321 (N-70-17654)
  - use in detection of ionospheric absorption events, application of technique for, 21:13456
- RIPPLE (Radioactive Isotope Powered Pulsed Light Equipment-United Kingdom)
    - see Nuclear Auxiliary Power Systems
- RIR (Research and Isotope Reactor)
    - see Reactors, Production
- RISA (Radioiodinated Human Serum Albumin)
    - see Albumins
- RISE
    - see Radioisotope Submersible Engine
- RITMO Reactor
    - see Critical Assemblies

- RIVERS
    - see also Amazon River
    - see also Androscoggin River
    - see also Clinch River
    - see also Columbia River
    - see also Connecticut River
    - see also Elbe River
    - see also Estuaries
    - see also Missouri River
    - see also Rhine River
    - see also Savannah River
    - see also Tennessee River System
  - cesium-137 content in core samples from mouth of Rhone, 25:21165
  - chromium-51 transport by, 21:32653 (ORO-490-3)
  - cobalt-60 accumulation by suspended particles in Danube, parameters affecting, 25:2361
  - contaminants in, tracer methods for identifying origin and transport of, 25:32082
  - contamination by radioactive waste disposal, methods for controlling, 25:37564 (STI/PUB-283)
  - contamination of Czechoslovak, in uranium mining areas, 1964 to 1967, 25:4157
  - contamination of, tracer study of effects on viability of clams and oysters, 24:31783
  - deuterium content of Yugoslavian, 24:25122
  - ecology of Ems, effects of Lingen Power Reactor radioactive effluents on, 24:28934 (CONF-690540-, pp 235-45)
  - flow characteristics of Cedar River, Iowa, 25:8025 (DOCKET-50331-24)
  - flow of tidal, use of rare earth chelate compounds as activable tracers for measurement of, 24:31478
  - flow rates of, radioactive tracer methods for measurement of, 24:39042 (PRNC-135, pp 317-26)
  - heat transfer to, from nuclear reactors, evaluation of hazards from, 25:32434
  - heated effluent effects on Patuxent, 24:47882 (NP-18423)
  - heating in Switzerland, computer program for simulation of, 24:47727 (CONF-700810-5)
  - leakage from bottom of, tracer method for point measurement of, 25:21155 (IAEA-R-580)
  - oxygen content of, effects of heated effluents on, 24:33594(T) (ORNL-tr-2300)
  - radiactivity monitoring of Des Plaines and Illinois, near Argonne Research Reactor during July through Dec. 1968, 24:33801
  - radiation monitoring of water samples from, during December 1966, 21:20177 (NP-16654)
  - radiation monitoring of, during March 1967, 21:45616 (NP-16900, pp 35-44)
  - radioactive contamination of German, from nuclear power plants, research on maximum permissible, 24:44093 (CONF-700810-12)
  - radioactive contamination of, development of computer model for study of, 25:18940
  - radioactive waste concentration in Norwegian, 21:10749
  - radioactive waste disposal in, computer model for studying environmental effects of, 24:36545
  - radioactive waste disposal into Danube, from future Austrian power reactor, economics and safety of, 25:26451 (SGAE-RT-33/1970)
  - radioactive waste disposal to German, hazards to population from tritium-containing, 24:27312 (CONF-690540-, pp 43-56)
  - radioactive waste disposal to Winnipeg, comparison of effects of heated and unheated effluents on dilution of, 23:21921 (AECL-3256)
  - radioactivity in irrigation canal sediment and water from Rhone, downstream from nuclear power centers, cesium-137, rhodium-106, ruthenium-106, strontium-90, and yttrium-90 β, 25:2543
  - radioactivity of US, 1960 to 1961 measurements of gross beta, 25:6424 (NP-18582)
  - radioisotope contamination of Meuse, in relation to fixation by aquatic fauna, flora, and sediments, cobalt-60 and manganese-54, 25:2544
  - radioisotope content in Winnipeg, August 1968, cesium-137, strontium-89, and strontium-90, 23:22284 (NP-17782)
  - radioisotope content of Czechoslovakian, measurement of natural, 25:54774
  - radioisotope content of Winnipeg, 1967 cesium-137, strontium-89, and -90, 23:819 (NP-17444)
  - radioisotope decontamination of, near Austrian reactor center, self-cleaning capacity for, 25:2545
  - radioisotope transport in model, comparison of calculated and measured, 25:16083
  - radioisotope transport in, development of mathematical model for, 25:2542
  - radium content of US, 1960 to 1961, 25:6424 (NP-18582)
  - radium/radon content of Russian, 25:41929
  - radium-226 accumulation in ecosystem of San Miguel, from Uravan uranium mill, 23:17976 (CONF-670503-, pp 307-18)
  - radium-226 content and migration in, effects of human and industrial activity on, 25:32373
  - radium-226 content of, in uranium mining areas of Czechoslovakia during 1964 to 1967, 25:4157
  - sediment transport in Plata, silver-110 tracer measurements of, 24:39040 (PRNC-135, pp 295-306)
  - sodium-22 content of USSR, effects of 1961 and 1962 atmospheric nuclear explosions on, 25:57568
  - temperature characteristics of Cedar River, Iowa, 25:8025 (DOCKET-50331-24)
  - thermal effluent effects from nuclear power plants on, COLHEAT computer program for estimates of, 25:1809 (BNWL-SA-2737)
  - thermal effluent effects on Connecticut, long-term study of, 24:28883
  - thermal profiles of New York State, 25:1845 (NP-18494)
  - thorium content of Czechoslovakian, (E), 25:54774
  - tritium content of US, (E), 25:13108
  - tritium content of, in USA during 1970, 25:13400
  - tritium release into Molse Nethe, estimation of monthly, 25:34719 (NP-18737)
  - uranium content in waters of, in Shimane prefecture, Japan, 24:44134
  - uranium content of Czechoslovakian, (E), 25:54774
  - uranium content of South Platte, Colorado, 25:39601
  - uranium content of US, 1960 to 1961, 25:6424 (NP-18582)
  - waste disposal and distribution in Neckar, from Obrigheim Power Reactor, 25:18094 (NP-18622)
  - zoological description of, 25:46371 (COO-2002-9)
- RMF
    - see Reactivity Measurement Facility
- RNA
    - see Nucleic Acid, Ribo-
- RNA METHYLTRANSFERASE
  - activity in uv-induced lysogenic Escherichia coli, 22:38214
- RNA NUCLEOTIDYLTRANSFERASE
  - activity in hepatic nuclei of rats, inhibition of, by nickel carbonyl, 22:6216(R) (ORO-3461-9)
  - activity in intestine of rats, effects of chlorambucil and myleran on, 22:36399
  - activity of, effects of x-irradiated nucleohistones on, 21:22232 (BMwF-FBK-66-36)
  - binding to polynucleotides in Escherichia coli, 22:28286 (ORNL-4100, pp 153-9)
  - biochemistry and catalytic activity of, 22:51304 (LA-3848, pp 21-61)
  - characteristics of, from rat anterior pituitary tissue, 25:15439 (NYO-3827-18)
  - content of heart of rats, effects of hypertrophy on, 24:34015 (ACRH-1000-173)
  - effects on RNA synthesis, effects of spermidine on, 23:778
  - initiation specificity of, in relation to damage to uv and x-irradiated T7 DNA from Escherichia coli, 24:14431
  - isolation of, procedures for, 24:7385(R) (NYO-910-126)
  - properties of, 21:21828 (LA-3638)
  - purification of, from E. coli, method for, 21:12951(R) (LA-3610)
  - purification of, from Escherichia coli, 21:21828 (LA-3638)
  - radiation effects on activity in regenerating rat liver, effects of AET on x, 21:20401
  - radiation effects on activity of sugar beet, effects of dose on γ, 25:55351
  - radiation effects on activity of, effects of dose on x, 25:8610
  - radiation effects on activity of, in cell nuclei of rat tissues, effects of adrenalectomy and fasting on x, 23:17933
  - radiation effects on activity of, in Escherichia coli, ionizing, 23:6401
  - radiation effects on activity of, in intestine of rats, whole-body x, 22:36399
  - radiation effects on activity of, in kidney cells of monkeys, combined effects of SV40 virus infections on x, 23:33643
  - radiation effects on activity of, in liver of mice, effects of adrenalectomy on whole-body γ, 24:46582
  - radiation effects on activity of, in mice, effects of sheep blood serum injection on recovery from x, 24:7745
  - radiation effects on activity of, in rat tissues, effects of adrenalectomy and fasting on whole-body x, 23:2786
  - radiation effects on activity of, in sugar beet tubers, 24:39427(R) (COO-1313-24)
  - radiation effects on affinity of, for polyadenine and polyuridine, γ, 24:41764
  - radiation effects on content of, in adrenal glands of rats, x, 22:14957
  - radiation effects on content of, in rat adrenals, effects of ACTH on x, 23:16231
  - radiation effects on DNA function in, for synthesis of adenylate polymers and RNA, uv, 21:30792
  - radiation effects on synthesis of, in sugar beets, x, 23:29343(R) (COO-1313-22)
  - radiation effects on template activity of, tritium β, 23:29298 (UCRL-50559)
  - radiation effects on transcription activities of, on DNA, ionizing or uv, 24:34090
  - radiation effects on, effects of, on error frequency during in vitro transcription of polyuridylic acid, γ, 23:47961
  - radioinduced mutations in, uv, 23:9890
  - radioprotective effects of, on DNA, 24:34077(R) (NYO-2804-27)
  - replication errors in nucleic acids, 22:25716(R) (NYO-3538-7)
  - synthesis in, effects of γ- and uv-irradiated DNA in homopolymer, 23:15908
- RNA Polymerase
    - see RNA Nucleotidyltransferase
- tRNA PYROPHOSPHORYLASE
  - purification and characterization of, 21:8676 (ORNL-3999, pp 143-52)
  - purification of, methods for, 22:28289 (ORNL-4100, pp 178-201)
- ROBERT E. GINNA POWER REACTOR, UNIT 1
  - accident analyses for, trip set point values used in hypothetical, 23:23816 (DOCKET-50244-17)
  - accident of May 14, 1970, safety analysis of main steam line isolation valve actuation failure, 24:28957 (DOCKET-50244-42)
  - accidents in, calculation of gaseous discharge from, 23:4100 (DOCKET-50244-7)
  - accidents in, operation and design of residual heat removal system and safety injection systems subsequent to hypothetical, 24:13459 (DOCKET-50244-29)
  - auxiliary and emergency systems for, final safety analysis of, 22:18361 (DOCKET-50244-2)
  - batteries for, revised surveillance requirements for station, 25:15285 (DOCKET-50244-58)
  - blowdown analyses for, final, 22:18361 (DOCKET-50244-2)
  - boiler of, effects of design parameters on tube vibration in, 23:34850 (DOCKET-50244-19)
  - buildings and structures for, seismic classification of, 23:4100 (DOCKET-50244-7)
  - cable trays for, loading and separation requirements of, 23:9072 (DOCKET-50244-8)
  - cables for, effects of accident environment on electrical, 23:34850 (DOCKET-50244-19)
  - communication systems for, description of, 23:4100 (DOCKET-50244-7)
  - containment building for, earthquake resistant design of, 23:15539 (DOCKET-50244-16)
  - containment spray system for, final safety analysis of, 22:18361 (DOCKET-50244-2)
  - containment structure for, design and surveillance program for tendons for, 24:16029 (DOCKET-50244-30)
  - containment structure for, design details for, 23:28393
  - containment structure for, design of prestressed concrete, 24:354
  - containment structure for, leak rate test requirements for, 25:25912 (DOCKET-50244-67)
  - containment structure for, procedures and data from integrity testing of, 24:13463 (DOCKET-50244-39)
  - containment structure for, revised leak rate limits and testing schedule for, 25:15282 (DOCKET-50244-55)
  - containment structures for, design parameters of, 24:1936 (DOCKET-50244-25)
  - containment system for, analysis of blowdown effects on, 24:13459 (DOCKET-50244-29)
  - containment system for, description of, 23:28392
  - containment system for, design and construction of, 24:16029 (DOCKET-50244-30)
  - containment system for, details on excess leakage around penetrations in, 24:20516 (DOCKET-50244-40)
  - containment system for, effects of loss of air on air-operated valves in, 23:15539 (DOCKET-50244-16)
  - containment system for, final safety analysis of, 22:18360 (DOCKET-50244-1)
  - containment system for, post-accident air purification system design and reliability margins for, 24:13459 (DOCKET-50244-29)
  - containment system for, preliminary safety analysis of, 23:11087 (DOCKET-50244-11)
  - containment system for, report of violation of integrity of, 24:13462 (DOCKET-50244-37)
  - containment system for, seismic loading analysis for residual heat removal system for, 23:34853 (DOCKET-50244-22)
  - containment system for, testing and instrumentation for, 24:16029 (DOCKET-50244-30)
  - containment system of, stress analysis and structural changes in, 23:9072 (DOCKET-50244-8)
  - containment system valve for, malfunction of 10 inch residual heat removal pump connecting, 24:11088 (DOCKET-50244-34)
  - containment systems for, preliminary safety analysis of, 24:18486 (DOCKET-50244-28)
  - containment systems for, revised safety analysis of, 23:15538 (DOCKET-50244-15)
  - containment ventilation system for, final safety analysis of, 22:18361 (DOCKET-50244-2)
  - containment vessel for, analysis of design and missile protection for, 23:15539 (DOCKET-50244-16)
  - containment vessel for, design analysis of large openings in, 22:53266 (DOCKET-50244-6)
  - containment vessel for, design of concrete, 22:18469
  - containment vessel for, design of prestressed concrete, 24:4006
  - containment vessel for, detailed analysis of design of large opening reinforcements in, 22:50706 (DOCKET-50244-4)
  - containment vessel for, effects of hypothetical accidents on temperatures of dome and steel liner of, 24:13459 (DOCKET-50244-29)
  - control rod drives for, 23:34850 (DOCKET-50244-19)
  - control rod drives for, description of, 23:4100 (DOCKET-50244-7)
  - control rods for, description of power supply channels for, 23:23816 (DOCKET-50244-17)
  - control rods for, revised technical specifications for insertion limits and shutdown margin for, 25:20623 (DOCKET-50244-61)
  - control room for, earthquake resistant design of, 23:15539 (DOCKET-50244-16)
  - control system and instrumentation for, description of, 23:28392
  - control systems and instrumentation for, final safety analysis of, 22:18361 (DOCKET-50244-2)
  - control systems and instrumentation for, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
  - control systems and instrumentation for, revised safety analysis of, 23:15538 (DOCKET-50244-15)
  - control systems for, preliminary safety analysis of, 24:18486 (DOCKET-50244-28)
  - coolant activity for, measurements for 1520 MW(t) operation, 25:59942 (DOCKET-50244-81)
  - coolant loss accident conditions for, calculation at increased power of, 25:20624 (DOCKET-50244-62)
  - coolant loss accidents in, design criteria for, 23:4100 (DOCKET-50244-7)
  - coolant samples for, revised testing requirements for, 25:15284 (DOCKET-50244-57)
  - cooling system for, description of, 23:28392
  - cooling system for, final safety analysis of, 22:18360 (DOCKET-50244-1)
  - cooling system for, flow diagrams and hydraulic variations of, 23:34850 (DOCKET-50244-19)
  - cooling system for, information on furnace sensitized stainless steel pressurizer safety valves of, 25:1827 (DOCKET-50244-53)
  - cooling system for, information on furnace sensitized stainless steel components of, 24:50019 (DOCKET-50244-49)
  - cooling system for, leakage limitations for, 23:15539 (DOCKET-50244-16)
  - cooling system for, non-destructive inspection of, 23:4100 (DOCKET-50244-7)

cooling system for, preliminary safety analysis of, 23:11087 (DOCKET-50244-11)
cooling system of, flow control system for, 23:4100 (DOCKET-50244-7)
cooling system of, support structures for, 23:4100 (DOCKET-50244-7)
cooling system pipes for, stress analysis of, 23:34850 (DOCKET-50244-19)
cooling system pump flywheel for, fracture mechanics of, 23:34850 (DOCKET-50244-19)
cooling systems for, revised safety analysis of design of, 23:15538 (DOCKET-50244-15)
core and internals for, analysis of effects of blowdown on integrity of, 23:11089 (DOCKET-50244-13)
core cooling for, calculation of required, 23:4100 (DOCKET-50244-7)
core for, description of, 23:28392
core for, description of thermal shield for, 23:23816 (DOCKET-50244-17)
core for, preliminary safety analysis of, 23:11087 (DOCKET-50244-11)
core for, revised safety analysis of design of, 23:15538 (DOCKET-50244-15)
core of, revised design parameters for, 23:4100 (DOCKET-50244-7)
decontamination methods and procedures for, 23:4100 (DOCKET-50244-7)
design of, final safety analysis of, 22:18360 (DOCKET-50244-1)
design parameters for, 22:22712 (STI/PUB-174)
design parameters for, revisions for 1520 MW(t) operation, 25:15286 (DOCKET-50244-59)
effluents from, measurements and monitoring procedures for radioactive and thermal, 25:44038 (DOCKET-50244-74)
electrical system for, description of, 23:28392
electrical system for, final safety analysis of, 22:18361 (DOCKET-50244-2)
electrical systems for, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
electrical systems for, revised safety analysis of, 23:15538 (DOCKET-50244-15)
emergency and auxiliary systems for, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
emergency cooling system of, performance testing of, 23:49497 (DOCKET-50244-26)
emergency core cooling system for, description of operational failure and subsequent repair of one part of safety injection, 24:13461 (DOCKET-50244-36)
emergency core cooling system for, performance evaluation of, 25:50971 (DOCKET-50244-76)
emergency core cooling system for, preliminary safety analysis of, 24:18486 (DOCKET-50244-28)
emergency core cooling system for, request for revision of surveillance requirements for safety injection pumps in, 24:13460 (DOCKET-50244-35)
emergency core cooling system requirements for, calculation at increased power of, 25:20624 (DOCKET-50244-62)
emergency plans and procedures for, detailed, 23:34851 (DOCKET-50244-20)
emergency procedures for accidents in, 23:34850 (DOCKET-50244-19)
emergency spray and filter system for, description of, 23:4100 (DOCKET-50244-7)
emergency systems of, safety limits for, 24:1936 (DOCKET-50244-25)
engineered safeguards for, analysis of instrumentation for, 24:3992 (ORNL-NSIC-29)
engineered safeguards for, description of, 23:28392
engineered safeguards for, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
engineered safeguards for, preliminary safety analysis of, 24:18486 (DOCKET-50244-28)
engineered safeguards for, revised safety analysis of, 23:15538 (DOCKET-50244-15)
engineered safeguards for, revised safety analysis of initiating circuitry for, 23:15539 (DOCKET-50244-16)
feedwater and steam flow for, revised safety analysis of, 23:15539 (DOCKET-50244-16)
fuel element storage pool for, design parameters of charcoal filter system for spent, 25:20625 (DOCKET-50244-63)
fuel elements for, DNB ratios and calculations for, 24:13459 (DOCKET-50244-29)
fuel elements of, inspection and replacement of defective, 25:56940 (DOCKET-50244-78)
fuel for, fabrication and cycling of uranium oxide (UO_2), 23:4100 (DOCKET-50244-7)
fuel melting accidents in, effects of iodine release from hypothetical, 23:15539 (DOCKET-50244-16)
fuel storage facility for, technical specifications for charcoal absorbers in, 25:25913 (DOCKET-50244-68)
instrumentation for, description and performance limits of coolant loss accident monitoring, 25:8044
instrumentation for, placement of strong motion accelerograph, 24:50018 (DOCKET-50244-48)
internals for, revised analysis of design for, 23:15539 (DOCKET-50244-16)
loading of, safety procedures for, 23:4100 (DOCKET-50244-7)
maintenance during November 1969 to December 1970, 25:48169
maintenance requirements for, review of, 24:38403 (CONF-700317, Paper 17)
materials for, effects of post-accident conditions and ECCS solutions on, 23:23816 (DOCKET-50244-17)
operation following hypothetical earthquake of, procedures for, 23:23816 (DOCKET-50244-17)
operation of, procedures for, 22:18361 (DOCKET-50244-2)
operation of, refueling and maintenance schedules for optimum economic, 25:5909
operation of, revised safety analysis of proposed, 23:15538 (DOCKET-50244-15)
operation procedures for, safety analysis of, 24:1936 (DOCKET-50244-25)
operations aspects of, revised end-of-life reactivity shutdown margin of 1.9 percent, 25:28601 (DOCKET-50244-69)
operations during November 1969 to December 1970, 25:48169
operations for December 1970 to June 1971, 25:53964 (DOCKET-50244-77)
operations history for, 25:28638
operations history for 1969, 25:15286 (DOCKET-50244-59)
operations history for April to December 1970, 25:20591 (DOCKET-50244-66)
operations history for November 1969 to April 1970, 24:35953 (DOCKET-50244-44)
operations history for stuck rod incident on December 3, 1969, 24:9003 (DOCKET-50244-33)
operations history for, review of, 24:38403 (CONF-700317, Paper 17)
operations incident of April 22, 1971, failure of concentrated boric acid tanks valves to open, 25:31474 (DOCKET-50244-70)
operations incident of August 18, 1970, safety analysis of faulty trip bistable, 24:45942 (DOCKET-50244-47)
operations incident of January 25, 1971, failure of 1A diesel generator to start, 25:20590 (DOCKET-50244-65)
operations incident of July 6, 1970, corrective actions for primary coolant dilution, 25:20589 (DOCKET-50244-64)
operations incident of July 6, 1970, violation of maintenance shutdown technical specifications, 24:40836 (DOCKET-50244-45)
operations incident of June 1 to June 5, 1971, possible excessive radioactive gas effluent release, 25:36874 (DOCKET-50244-71)
operations incident of May 14, 1970, malfunction of main steam line isolation valve, 24:40837 (DOCKET-50244-46)
operations incident of October 14, 1970, safety analysis of containment sump valve malfunction, 25:1800 (DOCKET-50244-52)
operations incident of October 4, 1970, malfunction of core deluge valve, 24:52804 (DOCKET-50244-51)
operations incident of October 4, 1970, safety analysis of engineered safeguard valve malfunction, 24:52803 (DOCKET-50244-50)
owners of, financial data on, 23:25986 (DOCKET-50244-18)
personnel for, excessive radiation exposure during April to June 1971 of, 25:48155 (DOCKET-50244-75)
personnel for, protection factors for respiratory equipment of, 25:25912 (DOCKET-50244-67)
personnel for, request for respiratory protection procedures for, 25:12733 (DOCKET-50244-54)
personnel for, retraining program for operating, 25:50943
personnel for, retraining requirements for 1520 MW(t) operation, 25:59942 (DOCKET-50244-81)
personnel for, training programs and responsibility assignments for, 23:34851 (DOCKET-50244-20)
personnel of, retraining program for operation, 24:22343 (DOCKET-50244-41)
personnel training program for, preliminary, 23:11088 (DOCKET-50244-12)
piping for, stress analysis for Class 1, 23:49497 (DOCKET-50244-26)
piping systems for, analytical model for determining seismic-induced dynamic loadings on, 23:23816 (DOCKET-50244-17)
piping systems for, static calculations of stresses for Class 1, 23:34853 (DOCKET-50244-22)
power distributions in, description of system for monitoring abnormal, 23:34852 (DOCKET-50244-21)
power increase for, safety aspects of, 25:56941 (DOCKET-50244-79)
power level for, requested information for increase to 1520 MW(t), 25:59942 (DOCKET-50244-81)
pressure vessel for, effects of coolant loss and safety injection on integrity of, 23:11089 (DOCKET-50244-13)
pressure vessel for, estimated radiation- and temperature-induced effects on NDTT of, 24:13459 (DOCKET-50244-29)
pressure vessel lower internals of, damage analysis for, 23:47128 (DOCKET-50244-24)
pressure vessel tendons for, materials for, 23:34850 (DOCKET-50244-19)
pumps for, failure of support stud for cooling system, 25:20622 (DOCKET-50244-60)
quality assurance program for, 25:44037 (DOCKET-50244-72)
quality assurance program for, responsibilities and procedures for, 24:16029 (DOCKET-50244-30)
radiation protection and radioactive waste handling at, 22:18361 (DOCKET-50244-2)
radiation protection and radioactive waste handling at, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
radiation protection equipment for, description of environment, 23:4100 (DOCKET-50244-7)
radioactive effluents from, excessive iodine-131 release on September 27 and 28, 1971, 25:56903 (DOCKET-50244-80)
regulatory action on, November—December 1969, 23:52302
regulatory action on, summary of USAEC, 23:43071
safety analyses for, 23:11088 (DOCKET-50244-12)
safety analyses of, revised, 23:15538 (DOCKET-50244-15)
safety analysis for, revised information for final, 22:24944 (DOCKET-50244-3)
safety injection pumps for, requirements of, 23:9072 (DOCKET-50244-8)
safety injection system for, effects of coolant loss accidents on cables for, 23:15539 (DOCKET-50244-16)
safety injection system for, final safety analysis of, 22:18361 (DOCKET-50244-2)
seismic evaluation of, 23:9072 (DOCKET-50244-8)
shielding for, evaluation of core band and thermal, 23:4100 (DOCKET-50244-7)
shutdown procedures and systems for, description of emergency, 23:9072 (DOCKET-50244-8)
shutdown systems for, analyses of logic and instruments in, 24:3992 (ORNL-NSIC-29)
site for, analysis of storm effects and associated wave action at, 23:34854 (DOCKET-50244-23)
site for, conditions for possible flooding of, 23:34852 (DOCKET-50244-21)
site for, detailed description of, 23:28391
site for, ecosystem relations of Lake Ontario to, 24:13459 (DOCKET-50244-29)
site for, environmental radiation survey procedures for, 25:25912 (DOCKET-50244-67)
site for, preliminary safety analysis of, 22:50707 (DOCKET-50244-5)
site for, preliminary safety analysis of, 23:11085 (DOCKET-50244-9)
site for, preliminary safety analysis of meteorology, hydrology, geology, seismology and soil mechanics for, 23:11086 (DOCKET-50244-10)
site for, revised sampling schedules for environmental monitoring program for, 25:15283 (DOCKET-50244-56)
siting of, final safety analysis of, 22:18360 (DOCKET-50244-1)
stability of, effects of axial xenon transients on, (E), 25:50940
startup of, procedures and personnel organization for, 23:34853 (DOCKET-50244-22)
startup of, test program for, 25:18070
startup program for, 24:28924
startup program for, 24:33197
startup testing of, review of, 25:15286 (DOCKET-50244-59)
steam and power conversion system for, description of, 23:28392
steam and power conversion system for, final safety analysis of, 22:18361 (DOCKET-50244-2)
steam and power conversion systems for, preliminary safety analysis of, 23:11088 (DOCKET-50244-12)
steam generator for, characteristics of, 23:26006
steam generator for, revised analysis of design for, 23:15539 (DOCKET-50244-16)
steam generators for, safety margins for seismic loadings of, 24:13459 (DOCKET-50244-29)
steam isolation valve for, failure of main, 25:44011 (DOCKET-50244-73)
steam line for, seismic loading analysis of, 23:34853 (DOCKET-50244-22)
Technical Specifications for, complete, 23:15537 (DOCKET-50244-14)
technical specifications for, modification of control rod activator, 24:9002 (DOCKET-50244-27)
technical specifications for, modifications for increased control rod drop time, 24:6991 (DOCKET-50244-31)
technical specifications for, revisions for 1520 MW(t) operation, 25:15286 (DOCKET-50244-59)
technical specifications for, surveillance requirements for residual heat removal pumps and containment spray pumps, 24:30999 (DOCKET-50244-43)
testing of, description of preoperational, 23:4100 (DOCKET-50244-7)
testing program for, description of 1520 MW(t) operation, 25:59942 (DOCKET-50244-81)
testing schedules for safety analysis of, 24:1936 (DOCKET-50244-25)
tritium control system for, 23:9072 (DOCKET-50244-8)
turbine generator units for, final safety analysis of failures of, 22:18361 (DOCKET-50244-2)
ventillation systems for, description of auxiliary building and control room, 23:4100 (DOCKET-50244-7)
waste disposal procedure and systems for, 23:9072 (DOCKET-50244-8)
waste disposal procedures for, 23:4100 (DOCKET-50244-7)
waste disposal systems at, activity limits for gaseous and liquid, 23:15539 (DOCKET-50244-16)
welds in, inspection procedures for electroslag, 23:34850 (DOCKET-50244-19)

Roccus
see under Osteichthyes

Rochelle Salt
see Potassium Sodium Tartrates

ROCK DRILLING
see also Drill Holes
borehole case filter location in, using gamma probe, 22:48927
borehole wall stabilization and permeability reduction in, of large diameter holes, 21:19783 (NVO-38-9)
caving problems in drill hole UE20p, effects of rock alteration on, 23:40858 (USGS-474-15)
core sample analysis using thermal-neutron absorption, 21:19573
core sample measurements from Project Gasbuggy hole GB-2, 23:9537 (PNE-G-27)
economic statistics for wells in U.S, 23:7629 (PNE-3012(Vol.2))
economics and techniques for underground emplacement of nuclear explosives, 23:35357 (PNE-5004-F)
economics for small and intermediate diameter holes, 23:486 (PNE-3012(Vol.1))
emplacement of nuclear explosives by, design of large-diameter casing for, 23:2454
equipment and method used in Project Scooter reentry operation, 23:15995 (SC-DR-67-694)
equipment and methods for Project Gasbuggy, 23:490 (PNE-G-9)
equipment and methods for reentry into Rulison Event chimney, 25:26409 (PNE-R-45)

- equipment for rotary and turbodrilling methods for, for use in underground nuclear explosion areas, effects of radioactivity and temperature on, 23:49975 (CEA-R-3762(1))
- equipment for underwater, remote gamma radiography of materials for, 24:48237
- equipment for, design of high-temperature, 22:6251(P)
- lithology of drill hole Ce-1 in supplementary Nevada Test Site, 23:38093 (USGS-474-1)
- methods and economics for nuclear explosive emplacement in disturbed media, 23:33287 (NCG-TR-10)
- methods for deep, in Hanford area basalt flows, 23:40855 (ARH-SA-47)
- methods for large holes, 24:50282 (NVO-423-1)
- methods for underground nuclear explosion test site in Sahara Desert, 24:4374 (CEA-R-3762(2))
- rate for 72-in. hole at Pahute Mesa, Nev., effects of drilling practices and geology on penetration, 24:16672 (NVO-38-21)
- reverse-circulation system development for air-assisted, of large diameter holes to 6000 ft, 22:10136 (NVO-38-12)
- underreaming equipment and methods for remote, of 20 ft dia underground cavities, 24:7547 (NVO-38-20)

Rock Salt
- see Sodium Chlorides

ROCK WOOL
- production of, radiometric method for filling measurements in fusion chambers for, 22:43144

Rocket Fuels
- see Propellants

ROCKET MOTOR NOZZLES
- alloys and metals for, U. S. and U.S.S.R. development of, 21:18269
- coolant tubes of, fatigue mechanisms of cryogenic cooled, 21:4939 (ORNL-P-2703)
- cooling by transpiration, effects on nozzle thermal load, 25:57640 (N-71-22591)
- cooling of nuclear, transpiration, 21:231
- corrosion by propellant gases, chemical and thermal aspects of, 25:16414
- description of multiple exhaust, for rocket reactors, 22:22788 (CONF-661204-(Vol.2), pp 78.1-11)
- description of NERVA, 22:22790 (CONF-661204-(Vol.2), pp 91.1-12)
- design and performance of, for Poodle, 21:12603
- design of regeneratively hydrogen-cooled, for nuclear rocket system, 21:8513 (NASA-TN-D-3771)
- design of, Fortran IV computer program for, 21:10535 (NASA-TN-D-3798)
- efficiency and performance of Poodle thruster, 21:43197(R) (STL-517-0049(Vol.6))
- evaluation of multiple, 21:42809
- exhaust from, effects of constituents of, on erosion of tungsten, 21:9070
- exhaust system test stand for, performance of, 21:23701 (TID-22929)
- fabrication of silicon oxide—tungsten, by hot pressing, 22:721(R) (AD-646616)
- fabrication of solid, by conventional and shear spinning of tungsten plate, 21:9126
- fabrication of tungsten, brazing and welding methods for, 21:9124
- fatigue testing of cryogenically cooled Hastelloy N, thermal, 23:22519 (RP-SR-2)
- graphite inserts for, alcohol penetrant testing of, 22:43008
- heat transfer in cooling passages of nuclear, method for calculation of, 23:2511
- heat transfer in, effect of 90° turns on, 21:12579 (TID-23652)
- inserts for, preparation of silver-impregnated tungsten matrix composite, 23:22497
- lining for, testing of hafnium—tantalum alloys for use as, 23:48363
- materials development and testing for Rover, 21:13160 (ORNL-3970, pp 236-44)
- materials for Phoebus-2, fabrication and testing of, 23:22519 (RP-SR-2)
- materials for, preparation and testing of boron—glass composite, 24:12477
- materials for, testing Hastelloy X and stainless steel, 23:8170 (ORNL-4370, pp 235-7)
- performance of arc-cast tungsten in, 23:48428
- performance of Poodle thruster, effects of viscosity, configuration, gas properties, and temperature on, (E/T), 21:43195(R) (STL-517-0049(Vol.4))
- performance of Poodle thruster, viscous effects on, 21:236(R) (STL-517-0038)
- performance testing of NERVA scale-model, 21:15757 (TID-23651)
- pressure of, pneumatic lines for transducer for measurement of, 24:2517 (RN-DR-124)
- supersaturation data for, 21:27785(R) (NAA-SR-12316)
- thermal cracking of silver-infiltrated tungsten inserts in solid, mechanism of, 21:9154
- throat inserts for, fabrication of large-diameter tungsten, 23:48364
- uses of silver-infiltrated tungsten composites in, measurement of infiltrant loss during, 21:9158

ROCKET MOTORS
- see also Aircraft Engines
- see also Reactors, Rocket
- see also Rockets
- cases for, properties of boron incorporating aluminum matrix composite, 23:48551
- components for ion, design parameters for, 24:2337 (AD-691072)
- components for liquid propellant, nondestructive methods for testing of, 23:17723
- cooling in, effect of liquid-film, 21:230
- description of subliming radioisotope-powered microthrust, 24:31614
- design of hydrogen propelled nuclear, with 1300 to 1600 seconds specific impulse, 21:40652 (NASA-TN-D-4127)
- design of radioisotope-powered, for satellite attitude control, 21:36288(P)
- design of, review of developments in, 23:2487
- design study for radioisotope-heated subliming microthruster, 25:42017
- design using combined electric heater and radioisotope for propellant heating, 23:50054(P)
- dynamics of, optimum control of, (T), 22:20952
- failures of, effects of flow induced vibrations on, 22:32950
- gas flow patterns and containment in directed-wall, with radial outflow, 21:35653 (NP-16785)
- materials for liquid propellant, nondestructive methods for inspection of, 23:21916
- materials for, high-strain-rate testing of, 21:1890(R) (N-66-22355)
- nozzles for, design of carbide—graphite, 21:39667(R) (AD-650508)
- performance of, effect of transpiration cooling on, 21:231
- performance of, evaluation of, 23:31214
- performance parameters for engines using ideal gaseous hydrogen, calculations, 21:2868 (NP-16339)
- seals for, testing Apollo service module, 21:4936 (N-66-30539)
- testing of promethium-147-powered, for space vehicles, 22:19044 (MLM-1437)
- testing under controlled spin and torque profile environment, 25:15453 (SC-DR-70-911)
- thermal insulation for, preparation and properties of resin-bonded silica aerogel, 21:22944(R) (TID-23683)
- thermal radiation absorption in transparent walls of nuclear, 21:32001

Rocket Reactors
- see Reactors, Rocket

ROCKET REACTORS (KIWI)
- accident mockup for, computerized analysis using MARS-code of, 21:38632
- control plates for, fabrication of, 21:4989 (LA-3570)
- debris from TNT, radionuclide fractionation and leaching of, 21:38639
- design parameters of KIWI A and KIWI B, 23:19541
- destruction of, radiochemical and physicochemical properties of debris from, 21:14331 (USNRDL-TR-1100)
- energy yield from transient nuclear tests (KIWI-TNT), use of Bethe-Tait method for calculation of, 22:32735 (ANL-7310, pp 249-375)
- environmental effects of effluent from Transient Nuclear Test, analysis of, 22:39849 (LA-3449)
- excursions in KIWI—TNT, MARS computer program analysis of, 24:16263
- performance of, review of testing program, 23:21535
- radioactive contamination monitoring from testing of B4D, off-site, 23:4934 (SWRHL-7-r)
- radioactive contamination monitoring from TNT testing of, off-site, 23:4937 (SWRHL-17-r)
- radioactive contamination monitoring of experiments with B4E, off-site, 23:4935 (SWRHL-15-r)
- radioactive contamination of environment by effluent from, measurement of, 21:16342 (UCLA-12-615)
- radioactivity content of atmosphere following destructive testing of, γ, 22:28525
- radioisotope ingestion in contaminated hay by dairy cattle following testing of, biological half-life and kinetics of secretion in milk following iodine-131 and iodine-133, 23:38554 (SWRHL-26-r)
- reactions of niobium—uranium—zirconium alloys with water in Kiwi-TNT, 21:5598 (ANL-7125, pp 150-99)
- reactivity in clustered, 21:14046 (LA-3494)
- shielding effectiveness of test cell structures of, 21:10864 (LA-3622)
- stability of coupled two-core, kinetic analysis of, (E), 21:17511 (LA-DC-8516)
- startup transients of clustered, analog simulation of, 22:20900 (WANL-TME-1154)
- testing of, off-site monitoring of radioactivity from, 23:15975 (SWRHL-22-r)
- testing of, off-site radiological monitoring following, 23:11656 (SWRHL-17-r)
- testing of, radiation exposures to off-site populations from, 21:6539

ROCKET REACTORS (NERVA)
- bearings for, development and testing of retainer materials for ball and roller, 24:19523 (RN-S-534)
- components of, manual for fusion welding of, 23:3011 (NTO-SOP-90(Rev.1))
- control circuits for, development of limiter circuits for spurious-signal overriding, 22:1844
- control drum actuator for, γ and neutron radiation effects on, 23:52427 (N-69-31870)
- control drum actuator of XE-1, effects of 30 to 80°K on, 23:2088 (N-68-29973)
- control elements of, effects on peripheral reactivity of optimum rotation sequence for, 23:37669
- control spans for, one-dimensional calculations of, 21:38644
- control system for XE series, operation of, 23:47285
- control system for, design requirements of, 24:33463
- control system for, performance of gamma-compensated neutron flux detector in, 22:28085
- control system for, radiation effects on, 22:35576
- control systems for, description of, 22:1843
- coolant exhaust from, design of low temperature charcoal adsorption beds for fission products in, 25:6142
- coolant flow in, development of fluidic chamber pressure control subsystem for liquid hydrogen, 25:23362 (CONF-700837-1)
- cooldown of, in-flight coolant management for, (T), 25:6132
- cooldown of, in-flight coolant management for, (T), 25:54229
- cooling system for, analog simulation of emergency, 21:8025
- cores for, coupling coefficients and efficiency of clustered, 21:40658
- criticality measurements in Flexible Critical Assembly, 21:38635
- cryogenics for, use of, 23:43178
- description of components for, 22:22790 (CONF-661204-(Vol.2), pp 91.1-12)
- design concepts for reusable nuclear shuttle, 25:37089
- design for, reactivity coefficient measurements for, 21:38712
- design parameters for use with Brayton cycle space power unit, 24:7247
- design parameters of NERVA-1, 23:19541
- design problems for NRX and XE Series, 25:51198
- design requirements for reusable interorbital shuttle space vehicle, 24:33462
- destruct test of scale model, use of chemical explosive in, 21:14361 (SC-RR-66-589)
- destruction of simulated, distribution and size of debris from high-explosive, 21:10514 (USNRDL-TR-1090)
- destruction of, debris distribution from, 21:14361 (SC-RR-66-589)
- development of, component and subassembly reliability analysis methods for, 25:51199
- development of, design, performance, and applications summary of, 22:16257
- development of, engineering aspects of, 22:39867 (N-68-21402)
- development of, history of, 25:1946
- development of, JCAE hearings on, 25:41590
- development of, JCAE hearings on suspension of, 25:28785
- development of, review of, 23:43170 (CONF-670846-, pp 1-29)
- development of, review of, 24:52979
- development of, review of, 25:39322 (A/CONF.49/P-56)
- development of, review of, 25:51198
- development of, review of, 23:43179
- development of, review of program for, 24:11287
- development of, review of test program for, 23:43178
- development of, status of program for, 23:15695 (WANL-W-89)
- development of, test program schedule for, 21:23702
- development program for, description of, 22:35576
- development program for, review of, 22:53407
- development program for, summary to Sept. 30, 1967 of, 23:19539(R) (N-68-11960)
- development status of, review of, 22:25060 (CONF-670445-, pp 18.55-63)
- dynamic characteristics of, measurement of, 21:27791 (NASA-TN-D-3979)
- economics of reusable nuclear shuttle, 25:37089
- effluent cloud diffusion from NRX, calculation and measurement of, 22:182 (UCRL-50299)
- effluent from EP IIIA of, radiation measurements of, 22:51569 (LA-3895)
- electric cables for, cooling of engine-mounted metal-sheathed, 23:16017 (RN-TM-418)
- electric cables for, evaluation of flame sprayed aluminum coatings for, 23:18196 (RN-TM-564)
- engine components of, transport analyses of radiation environment of, 25:6128
- engine systems of, computer program for steady-state analyses of, 21:14054 (TID-23654)
- engine transients analysis, computer program for, 21:14050 (TID-23639)
- exhaust duct for, description of, 22:35567 (LA-DC-9555)
- exhaust ducts for, effects of scale build-up on heat transfer in water-cooled hydrogen, 22:21267 (BNWL-632)
- exhaust plume from, testing and predictions of, 21:14052 (TID-23650)
- exhaust plumes from operation of, lidar equipment and method for tracking of, 22:47241 (UCRL-13358)
- exhaust system duct for, dynamic analysis of, 21:14362 (TID-23648)
- exhaust system testing, scale-model, 21:15757 (TID-23651)
- fission product inventories predictions for, use of FPIP-REV, 21:38630 (WANL-TME-537(Rev.1))
- fission product release from fuel irradiated in seawater, 21:2869 (USNRDL-TR-1046)
- fluid transport lines for, prevention of corrosion in welds of stainless steel, 24:14647 (RN-S-516)
- fluid transport lines for, welding using consumable inserts, 24:14662 (RN-S-515)
- fuel cluster supports in, material selection for, 24:29946 (WANL-TME-1995)
- fuel element degasification behavior at low pressures, 25:2677 (ORNL-4570, pp 224-7)
- fuel element degasification measurements, 25:38011
- fuel element fabrication for, description of optimum, 22:39867 (N-68-21402)
- fuel elements for, automatic photographic system for radioactive, 21:8016
- fuel elements for, inspection equipment and procedures for, 25:34417 (Y-DA-3934)
- fuel elements for, outgassing facility for, 24:2870 (ORNL-4470, pp 218-21)
- fuel elements for, problems in fabrication of, 25:44174
- fuel elements for, reactivity measurements for determining composition of, 22:6083
- fuel elements for, thermal hydraulic testing of, (E/T), 25:6141
- fuels for, computer program for calculation of outgassing rates for, 25:32643
- heat transfer and flow characteristics of liquid hydrogen in, analysis of transient two-phase, 21:10533 (N-66-19533)
- instrumentation and component development for, in cryogenic irradiation test facility of NASA Plum Brook Research Reactor, 21:32297
- instrumentation for, description of, 22:1843
- instrumentation for, radiation effects on, 23:17880
- instrumentation for, thermal performance of irradiated, 23:17878

  instrumentation of, pressure vessel port for, 21:1874 (WANL-TME-1465)
  ionization chambers for, development of compensated, 22:12679 (ANL-7380, pp 161-3)
  materials for, bonding and shear behavior of, 25:2677 (ORNL-4570, pp 224-7)
  materials for, effect of space environment on, 23:8170 (ORNL-4370, pp 235-7)
  materials for, fast neutron radiation effects at -423°F on, 22:32938
  materials for, radiation effects testing at low temperatures, 24:36944
  materials for, tensile properties of aluminum—copper, aluminum—tin—titanium, and hot-pressed block beryllium, 23:51081 (WANL-TME-1943)
  materials for, testing at 140 to 540°R, 24:16815
  materials for, testing for adhesive behavior under high vacuum, 25:40105 (TID-25727)
  materials for, testing for adhesive properties, 23:32031(R) (TID-25088)
  materials for, testing under space conditions, 24:2870 (ORNL-4470, pp 218-21)
  materials selection for, 21:15767 (N-66-26822)
  neutron cross sections for, GAMBIT computer program for thermal and fast, 23:23989 (WANL-TME-1752)
  neutron cross sections for, utility codes for GAMBIT thermal range library, 24:16286 (WANL-TME-1970)
  neutron decay rates for, comparison of calculated and measured delayed- and photo-, 22:6081
  neutron flux distribution in, comparison of calculated and measured fast and thermal, 25:39320
  neutron flux distribution in, foil activation methods for, (E/T), 24:46099
  neutron flux in NRX reactors, S/sub N/ transport method analysis of, (E/T), 21:8028
  noise experiments for, design of pseudo-random, 21:8022
  nozzle assembly of, Monte Carlo radiation transport analyses of, 25:6129
  nozzle for, effects of aluminum content on weldability of Hastelloy X, 24:14663 (RN-S-519)
  nozzles for, problems in fabrication of, 25:44174
  operating characteristics of, comparison with chemical rockets of, 24:11287
  operation of reusable nuclear shuttle concept, development program for, 25:31641
  operation of, characteristics and requirements for reusable shuttle missions, 25:41577
  operation of, review of heat transfer and pressure drop analysis for, (T), 23:15694 (RN-S-92)
  operation of, TRACE code for probability of component failure during, 24:20615 (RN-DR-173)
  operational characteristics of, summary of, 24:43827
  operations for, review of potential space flight, 24:52979
  performance and testing of NRX-A2 thermocouples for, 21:14053 (TID-23653)
  performance and testing of NRX-A2, instrumentation for, 21:14051 (TID-23649)
  performance of NRX/EST nuclear subsystem, analog computer analyses of, 21:8026
  performance of NRX-A6, analysis of 1 hour full power, 23:47285
  performance of XE-Prime, test program for, (E), 25:12835
  performance of XECF series, 23:47285
  performance of, effects of exhaust plume acoustics on, (E), 24:43828
  performance of, review of testing program, 23:21535
  power control of XE Prime, performance of system for, 24:18742 (WANL-TME-1976)
  power distribution calculations for, effects of graphite crystalline binding on, 22:6071
  pressure transducer for, design and performance of radiation resistance, 22:30925
  pressure transducer pneumatic lines for measurement of nozzle pressure, 24:2517 (RN-DR-124)
  pressure tubes in, surveillance program for in-reactor inspection and postirradiation evaluation of Zircaloy-2, 23:16482 (BNWL-746, pp 10.1-31)
  propellant tank for, radiative fluxes and dose rates in mockup of, (E/T), 25:23365 (N-70-43127)
  propulsion gases from, cleaning procedures for, 21:26133(R) (NYO-841-4)
  pumps for, effects of vapor ingestion on performance of fixed-geometry, fixed-speed turbo-, 23:16016 (RN-S-428)
  radiation effects testing in Plum Brook facility, hazards summary for, 21:12238 (N-66-23840)
  radiation environment of, use of PAX R-1 reactor for simulation of fast neutron and γ, (E/T), 24:33465
  radiation heating rates of internal components in, (E/T), 25:6126
  radiation heating rates on NRX-A3 midplane, (E/T), 21:8019
  radiation levels in NRX-A2 and -A3, internal gamma and neutron, (E/T), 21:8021
  radiation measurements for NRX-A6, analysis of γ and neutron, 23:37672
  radiation protection standards for personnel of, manual of, 22:36255 (NTO-T-0022)
  radiation zones for, illustration of gamma and fast neutron, 24:7246
  radiological hazards of, destroyed at launch or reentry, 21:10514 (USNRDL-TR-1090)
  reactivity feedback effects in, 25:6139
  reactivity feedback in, (E/T), 22:6082
  reactivity of, effects of hollow and hydrogen filled tantalum carbide and hafnium oxide shim tubes on, (E), 25:41587
  reactivity worth of structures external to, (T), 21:38636
  reflectors for, fracture testing of beryllium, 21:45891 (WANL-TME-1610)
  reflectors for, stress intensity factor around coolant holes in beryllium, (T), 23:43176 (WANL-TME-1897)
  reflectors for, tensile properties of beryllium, 21:45892 (WANL-TME-1619)
  safety of reusable shuttle concept, development program for, 25:31641
  shield design and analysis for, 21:30240 (WANL-TME-1466)
  shield design experiments for, shadow shield techniques for background measurement during, 23:37673
  shielding analysis of, coupled discrete ordinates—Monte Carlo method for, 24:7260
  shielding calculations for, methods for neutron and photon transport in, 22:39851(R) (N-68-13501)
  shielding for, neutron and γ radiation levels internal and external to, (E/T), 25:6130
  shielding for, neutron streaming through coolant ducts in peripheral, (E/T), 25:46308 (GULF-RT-10577)
  shielding measurements for, analysis of fast neutron and γ, 22:32942
  shielding of, requirements for manned and unmanned missions, (T), 25:6131
  shields and structures for, reactivity worth determination using Monte Carlo coupled transport calculations for external, 22:32937
  simulation of, analog computer models for, 21:27791 (NASA-TN-D-3979)
  stability of, comparison between theoretical and experimental determinations of, 22:6085
  startup transients of clustered, analog simulation of, 22:20900 (WANL-TME-1154)
  strain gages for, evaluation testing at -320 to +600°F of ceramic bonded, 21:22203 (WANL-TME-1254)
  structural materials for, radiation effects on mechanical and tensile properties of, 22:4813 (TID-24148)
  structures for, effects of launch and mission requirements on stress limits of, 25:10289
  structures of, radiation effects on, 22:19604
  test facilities and procedures for, 23:43178
  test facilities for, performance of exhaust duct cooling system for high altitude simulation, 24:47915 (ANSC-1)
  testing and disassembly of, off-site radiation monitoring from, 22:30715 (SWRHL-30-r)
  testing of NRX-A6, off-site radiological monitoring for, 25:60195 (SWRHL-78-r)
  testing of XE-Prime, γ radiation levels during, (E/T), 24:7248
  testing of, airborne radioactivity determination during, 21:38637
  testing of, monitoring of environment for radioactivity from effluent during, 21:12838 (LA-3583)
  testing of, noise field from ground, (E/T), 24:22465 (RN-TM-592)
  testing of, off-site monitoring of radioactivity from, 23:15975 (SWRHL-22-r)
  testing program for, 25:51199
  testing program for, review of, 25:51198
  thermocouples for, development of high temperature, 22:14238 (ANL-7380, pp 52-62)
  transfer function measurements in, 21:8023
  transfer function measurements in, 21:8024
  transfer function measurements in NRX/EST, use of control drum perturbations for, 21:25705 (WANL-TME-1475)
  transfer functions using cross-correlation techniques, 21:30120 (CONF-660206, pp 285-314)
  transport system for, development of railroad, 22:4323
  transport system for, development of railroad, 22:4322
  turbines for, vibration testing of disks for, 23:11700
  turbopumps for, effects of radiation on bearings of liquid hydrogen, (E), 22:8789
  uses in manned planetary missions, 25:28787
  uses in manned planetary missions, Earth departure technique for, 25:28788
  wiring for space shuttle, design requirements and performance of adapters and connectors for, 25:46315 (N-71-19875)
ROCKET REACTORS (PHOEBUS)
  accident during testing of 1A, decontamination of test cell after, 21:14047 (LA-3633)
  coolant feed system for, design characteristics of liquid hydrogen, 23:47280
  design parameters of PHOEBUS-1 and PHOEBUS-2, 23:19541
  destruct test of scale model, use of chemical explosive in, 21:14361 (SC-RR-66-589)
  destruction of, debris distribution from, 21:14361 (SC-RR-66-589)
  development of, review of, 23:43179
  development of, test program schedule for, 21:23702
  development program for 5000 MW 2A, description of, 22:35568 (LA-DC-9589)
  effluent cloud from full power test of, radiation measurements of, (E), 22:12442 (LA-3787)
  effluent from EP-4 test of 1B, chemical and physical characteristics and deposition pattern of particulate, (E), 24:29064 (SWRHL-46-r)
  effluent particle release from 1B, collection and evaluation of large, 22:37511 (LA-3796)
  effluent particles from 1B EP-IV test run, beta dose rates from, (E/T), 22:35565 (AD-661221)
  effluent particles from full power tests of, deposition and properties of large, 23:47278 (SWRHL-60-r)
  effluents from 1B-EP-IV, in atmosphere, diabatic trajectory of, (E/T), 24:14076 (BNWL-1051(Pt.1), pp 35-45)
  effluents from, radiational cooling of air parcels following, 25:48645 (BNWL-1551(Vol.2)(Pt.1), pp 129-30)
  fission product distributions in 2A, techniques for measurement of, 22:25065 (LA-DC-9412)
  fuel elements for, automatic photographic system for radioactive, 21:8016
  gamma doses in 1B, effects of 360° open-well shield on, 22:48722 (LA-3746)
  hydrogen feed system for, development and performance of dual turbopumps for liquid, 21:43086 (CONF-671009-1)
  neutron dose and flux measurements in 1B, effects of 360° open-well shield on fast and thermal, 22:48722 (LA-3746)
  neutron environment for 2A, (E/T), 24:33464
  nozzle design parameters for, 23:47280
  nozzle fabrication development, 21:13160 (ORNL-3970, pp 236-44)
  nozzle materials for, fabrication and testing of, 23:22519 (RP-SR-2)
  operation of, radiation monitoring of environs following, 25:46826(R) (SWRHL-83-r)
  radiation dose measurements for 1B, analysis of γ, 24:5554 (LA-3747)
  radiation monitoring following testing of, off-site, 23:43751 (SWRHL-45-r)
  radioactive contamination monitoring from experiments with, off-site, 23:4939 (SWRHL-19-r)
  radioactive effluents from 2A test series during May to July 1968, environmental monitoring of, 25:8125 (SWRHL-72-r)
  reactivity variations during testing of 2A, (E/T), 24:7252
  shield for 1B facility, axial distributions of uranium-235 fissioning neutron fluences in, (E/T), 24:5555 (LA-4166)
  shield for, fission neutron flux distributions in, 22:6084
  shielding calculations for 1B, analysis of open-well, 23:13552 (AERE-R-5773(Vol.3), pp 858-900)
  shielding for 2A, uranium-235 and uranium-238 fissioning neutron fluence distributions in, (E/T), 25:34416 (LA-4615)
  shielding for, efficiency of open-well, 21:44915 (LA-DC-8660)
  shielding of PHOEBUS-2A, measurement of uranium-235 and uranium-238 fission flux in, 23:37670
  shields and structures for, reactivity worth determination using Monte Carlo coupled transport calculations for external, 22:32937
  stability of coupled two-core, kinetic analysis of, (E), 21:17511 (LA-DC-8516)
  structural materials for, brazing and welding Inconel-718, 22:23741
  test operation effluent cloud from, concentration and size measurements of, 22:35944 (UCRL-50418)
  testing at Nevada Test Site during 1967, off-site radiological surveillance activities for, 24:25486 (SWRHL-47-r)
  testing of, radiation exposures to off-site populations from, 21:6539
Rocket Reactors (Tory)
    see Pluto Reactors (Tory)
ROCKETS
    see also Guided Missiles
    see also Nose Cones
    see also Rocket Motors
  aeroballistic development of solid-propellant single stage Tomahawk, 21:30328 (SC-RR-66-2608)
  aerodynamic forces and dynamic stability of high-speed magnetically suspended, 25:20890 (SC-DR-70-867)
  aerodynamic instabilities in Tomahawk sounding, 21:23799 (SC-R-66-997)
  aeroelastic bending of Terrier—Tomahawk 9, 24:13703 (SC-DR-69-661)
  book: Supersonic Aerodynamics and Rocket Propulsion, 23:47279
  characteristics of Sandhawk, flight and performance, 25:8167 (SC-DC-70-4757-A)
  characteristics of, aerodynamic, (E), 21:36975 (SC-DC-67-1811)
  control of nuclear, derivation of integro-differential constraints for, 23:29039 (CONF-680649-1)
  design and operation of Cleansweep IIIB, for sampling nuclear explosion clouds, 25:6452 (UCRL-50586)
  design and testing of monorail sled, for simulation of supersonic flight to Mach 6.53, 22:21003 (SC-DC-66-1967)
  design characteristics of fission, fusion, and photon, 24:19917
  design modifications for cleansweep III B, for atmosphere sampling, 22:6234 (UCRL-13321)
  destruction of, contamination of biosphere following accidental, 21:8452(R) (ORNL-TM-1686)
  detection of extreme uv emission from Sun with stabilized Skylark, (E), 21:36971 (ESRO-SP-6, Paper 17)
  development for isokinetic sampling of gaseous and particulate nuclear clouds, 21:28131(R) (UCRL-13275)
  development of nuclear-explosion pulse-propelled, outer solar system mission profiles for, 24:20931
  electrical equipment for, method for determining possible hazards from induced currents in, 25:37228 (SC-R-713250)
  electromagnetic compatibility of, 25:41667 (SC-R-713258)
  electron density perturbations in ionosphere by, and observations of multiple radio echoes, 21:25011
  exhaust system for nuclear, welding of stainless steel for, 22:26033
  geomagnetic observations with, (T), 23:34321
  guidance system for high-speed, using superconducting magnets, 23:29076
  heat diffuser for, nose-cone, 21:17512 (N-66-26757)
  hydrogen leaks in, equipment and method for detection of, 23:14058 (NYO-3735-1)
  instrumentation for Apache, superconducting coil system for use in, 22:10649
  instrumentation for Cariboo-III, design of beta spectrometer, 23:16195 (SC-DR-68-420)
  instrumentation for detection of auroral electrons, 21:24980 (N-67-15320)
  instrumentation for ionospheric probes, parachute for deceleration of, 21:24256
  instrumentation for measuring ion density and conductivities, 21:24255
  instrumentation for measuring properties of upper atmosphere, 21:23079(T) (NASA-TT-F-390)

instrumentation of Nike-Tomahawk, for measuring high altitude atmospheric density, 21:34360 (SC-DC-67-1901)
instrumentation payloads for x-ray survey, (E), 21:536(R) (N-66-21440)
ion collection by supersonic atmospheric sounding, theory of, 21:43936
launcher corrections for, techniques for computing, 21:42854 (SC-DC-67-1812)
liquid propelled, pad-abort thermal flux model for, 21:8517 (SC-RR-66-577)
materials for, evaluation of lightweight, 25:47116 (NMAB-272, pp 467-511)
materials for, review of high-temperature, 25:45056
motion in ionosphere, review of aerodynamic factors affecting, 24:1339
neutron detection aboard sounding, design of directional scintillation detector for, 22:36032(R) (N-68-16913)
Nike-Apache system of, description of, 21:32069 (SC-RR-67-251)
nozzles for nuclear, thermal fatigue of Type 347 stainless steel and Hastelloy X coolant tubes for, 23:16485 (ORNL-TM-2089)
nuclear explosion effects on, methods for determining, 25:48679 (AD-721276)
nuclear reactors for, control of, 21:16050
operating characteristics of chemical, comparison with NERVA of, 24:11287
payload for releasing sodium—lithium cloud, development of, 21:24257
performance comparison of upper stage chemical and water—graphite nuclear, 23:15693 (N-68-35073)
performance of LRL sounding, summary of, 1963 to 1969, 23:24353 (UCRL-50587)
performance of Sandhawk, flight test data on, 23:49679 (SC-DR-69-291)
potential measurements in auroral ionosphere, 21:37273(R) (AD-650644)
power systems for, development and performance of radionuclide generator with thermoelectric converter for, 21:29080
pressure and heat transfer rates on models of, measurement in hypersonic wind tunnels, 21:28155 (SC-RR-67-142)
propellant heating of nuclear, effect of tank baffles on, 21:10534 (N-66-33710)
propulsion and reentry, 21:21849
propulsion of nuclear, cryogenic heat transfer studies for, 21:43131 (LA-DC-8716)
propulsion of nuclear, slug flow and film boiling of liquid hydrogen for, 21:45299
propulsion of, AEC-program for development of zirconium hydride thermal, thermionic, and liquid metal-cooled fast reactors for, 23:11308 (CONF-680419-, pp 41-60)
propulsion of, Australian research program on, 24:27287(R) (NP-18196)
propulsion system development for nuclear, cryogenic research on high-thrust, 21:28128 (LA-DC-8725)
propulsion systems for, development of nuclear, 24:18744
propulsions systems for, bibliography on operational analysis of, 24:16253 (AD-696628)
radiation distributions and propellant heating in nuclear, calculations using Monte Carlo method, 21:20999 (N-66-27941)
research program at European Space Research and Technology Centre on sounding, 25:9336
solar observations from sounding, (T), 22:26195
spin stabilization of precessing and nutating, analysis of flyweight despin mechanism for, 21:27870 (SC-TM-67-214)
structural materials for, properties of beryllium, 25:22096
telemetry module for sampling, design of subminiature, 22:47431
test facilities for nuclear, structural mechanics, 21:40651 (ANL-7290, pp 123-38)
testing of nuclear, measurement of atmospheric radioactivity from ground, 22:18967 (LA-DC-9093)
testing of Tomahawk, use of Sandia 18 in. hypersonic wind tunnel for dynamic stability, 21:35813 (SC-RR-66-690)
thrust system for, design of 10,000-lb, 21:40651 (ANL-7290, pp 123-38)
trajectory calculations for, computer program for, 21:1234 (SC-DR-65-511)
use in geophysical studies, problems in, 21:11501
use in investigating upper atmosphere, methods of, 21:23079(T) (NASA-TT-F-390)
use of instrumented, for auroral measurements, 21:18502 (AD-642729)
use of instrumented, for auroral measurements, 22:17463
valve development for nuclear, friction evaluation of materials for, 22:8752
Y-rings for Saturn V, roll diffusion bonding method for fabricating titanium alloy, 23:14308

ROCKS
see also Andesites
see also Carbonaceous Rocks
see also Concretions
see also Eclogites
see also Igneous Rocks
see also Lava
see also Lunar Materials
see also Metamorphic Rocks
see also Peridotites
see also Phosphate Rocks
see also Sandstone
see also Silicate Rocks
see also Tuff
age at latest metamorphasis, fission track method for determination of, 25:21183
age estimation of, argon activation analysis for, 21:23814 (CEA-R-3100)
age estimation of, correction for atmospheric argon in argon/potassium method for, 21:6019
age of African and North and South American, strontium-86/strontium-87 and rubidium/strontium methods for estimation of, 23:7628(R) (MIT-1381-16)
age of Apollo 11 lunar, cosmic-ray exposure, (E), 24:21535
age of Arizona and Sonora basin range metamorphic, use of argon/potassium method for estimation of, 21:39032 (COO-689-76, App.A-II)
age of Atlantic Ocean bottom, studies of ocean bottom spreading using estimates of, 25:44461
age of Baltic Shield, argon-40/potassium-40 method for estimation of, 22:6474
age of British, isotopic method for estimation of, 23:13865
age of Canadian shield, rubidium/strontium method for estimation of, 24:7497(R) (MIT-1381-17)
age of Canadian, rubidium/strontium and strontium-86/-87 methods for estimation of, 22:6435 (MIT-1381-15)
age of Caucasus neovolcanic, geochemical method for estimation of, 22:18919
age of Churchill Province, Canada, rubidium/strontium method for estimation of, 25:2353
age of Hungarian, use of isotopic geochemistry for estimation of, 24:20881
age of hydrogenous, differential equations for estimation by neutron slowing down, 22:33563
age of igneous, use of thorium-230/-232 method for estimation of, 21:30535
age of Liberian metamorphic, rubidium/strontium method for estimation of, 22:6435 (MIT-1381-15)
age of middle Precambrian, rubidium-87/strontium-86 method for estimation of, 21:8434
age of North American, rubidium/strontium method for estimation of, 23:451
age of North American, strontium/lead method for estimation of, 23:451
age of Permian, in Queensland, reliability of isotopic method for estimation of, 24:44107
age of ristschorrite, argon-36/-40 and helium-3/-4 methods for estimation of, 23:17568
age of Sonoran metamorphic, use of argon/potassium method for estimation of, 21:39040 (COO-689-76, App.A-XI)
age of worldwide, rubidium/strontium method for estimation of, 25:54757(R) (MIT-1381-18)
age of young volcanic, ionium/thorium ratio for estimation of, 21:36117
age of, accuracy of argon/potassium method for estimation of, 25:268
age of, argon/potassium method for estimation of, 22:27902
age of, argon/potassium method for estimation of, 22:40215
age of, carbon-14 method for estimation of, 23:21812
age of, Concordia method for estimation of, 24:9495
age of, development of ESR method for estimation of, 24:22768(R) (COO-1057-52)
age of, effects of sample preparation on accuracy of argon/potassium method for estimation of, 25:265
age of, isotope dilution method for rubidium/strontium estimation of, 24:16687
age of, neodymium-142—samarium-146 and neodymium-143—samarium-147 methods for estimaton of, 24:50347(R) (NYO-844-81)
age of, optimization of irradiation parameters in argon-39/argon-40 method for estimation of, 25:21169
age of, potassium/argon, rubidium/strontium, and uranium/lead methods for estimation of, 24:44109
age of, radiometric methods for estimation of, 23:24307
age of, radiometric methods for estimation of, 22:25518
age of, rubidium/strontium method of estimating, 23:24097
age of, strontium isotope method for estimation of, 22:30699
age of, uranium-238 fission track method for estimation of, 22:51085
age of, use of isotopic sulfur method for, 21:4617
analysis by 14-MeV neutron activation and γ spectrometry, 25:2119 (CONF-700322-, pp 221-30)
analysis by 14-MeV neutron activation and γ spectrometry, review of, 25:54465
analysis by activation, comparison of other methods with, 25:54458
analysis by alpha scattering, 25:54459
analysis by α scattering methods, 25:4034
analysis by beta-scattering method, 22:28194
analysis by cyclic neutron activation, 24:61
analysis by fast and thermal neutron and photon activation, 25:54463
analysis by instrumental activation, gamma—gamma coincidence spectrometry in, 25:54479
analysis by instrumental neutron activation, 24:22606 (UJV-2319-Ch)
analysis by instrumental neutron activation and neutron activation with radiochemical separations, 25:54461
analysis by mass spectrography, 23:47369(T) (ORNL-tr-2220)
analysis by neutron activation and autoradiography, 25:8234
analysis by neutron activation and radiochemical separation, 24:33652
analysis by neutron activation, separation of sodium activity to increase sensitivity of, 25:15560
analysis by nondestructive 14-MeV neutron activation, computer program for analyzing γ spectra in, 25:54482
analysis by rapid instrumental neutron activation methods, 24:11496
analysis by x-ray diffractometry, 25:3995 (UCRL-50921)
analysis for 39 elements by neutron activation and radiochemical separation, 25:46463
analysis for alkali metals, alkaline earth metals, and rare earths by isotope dilution methods, separation scheme for, 23:2213
analysis for alkali metals, use of suspensions in flame spectrophotometric, 23:19639
analysis for alpha sources, spectrometric, 21:1448
analysis for aluminum and silicon, neutron activation, 25:48486
analysis for aluminum by neutron activation and γ spectrometry, 23:33160 (KR-131)
analysis for aluminum oxide and silicon oxide, neutron activation logging method for, 24:9522
analysis for aluminum, calcium, magnesium, manganese, sodium, and vanadium by neutron activation and gamma spectroscopy, 23:15820
analysis for aluminum, chromium, potassium, and tin by neutron activation and radiochemical separation, 24:138
analysis for aluminum, chromium, potassium, and tin by neutron activation, 24:16459
analysis for aluminum, dead time corrections for gamma spectroscopy in neutron activation, 25:37638
analysis for aluminum, iron, magnesium, and silicon, least-squares resolution of complex spectra from interfering activities in neutron activation, 23:43583
analysis for aluminum, magnesium, and vanadium by neutron activation methods, 22:44975 (MIT-905-125)
analysis for aluminum-26 produced by cosmic mesons (μ), 23:10961(R) (NP-17704)
analysis for antimony, neutron activation method for, 22:30464
analysis for antimony, radiochemical, 24:38760
analysis for barium and rare earths in, from Bosumtwi Crater area, Ghana, by isotope dilution, 22:18
analysis for barium and strontium by isotope dilution mass spectrometric, neutron activation, gravimetric, and other spectrometric methods, 25:18335
analysis for barium and strontium by neutron activation and radiochemical separation, 23:17384
analysis for barium and strontium by neutron activation and radiochemical separation, 24:38784
analysis for barium and strontium by x-ray fluorescence methods, 25:39417
analysis for barium and strontium simultaneously by neutron activation and radiochemical separation, 24:143
analysis for barium isotopes by isotope dilution, 23:41769
analysis for beryllium by alpha activation and prompt γ counting, 25:54467
analysis for beryllium by neutron activation, 23:43275
analysis for beta sources by β—β reflection, 24:36175
analysis for boron radiometric, 22:27898
analysis for cesium and rubidium simultaneously by neutron activation and semiconductor gamma spectrometry after chemical separation, 23:6068
analysis for cesium and tantalum by neutron activation and γ spectrometry, 25:2145
analysis for cesium and tantalum by thermal neutron activation and γ spectrometry, 25:8230
analysis for cesium by atomic absorption or x-ray fluorescence, 22:27549
analysis for cesium, cobalt, hafnium, scandium, and tantalum by neutron activation and γ spectrometry, 25:2139
analysis for chromium by neutron activation and radiochemical separations, 23:40596
analysis for coal by γ-γ method, 25:2111
analysis for cobalt, copper, gallium, iron, tungsten, and zinc by neutron activation and radiochemical separation, 24:36186
analysis for copper by bremsstrahlung activation, 24:5614
analysis for copper by neutron activation and radiochemical separation, 25:15533
analysis for copper by neutron activation methods, 22:35764
analysis for copper by nondestructive neutron activation, 25:15551
analysis for dysprosium by neutron activation method, 22:44986
analysis for elements by atomic absorption and flame spectroscopy, 24:36141 (ARH-1609)
analysis for elements by neutron activation, 23:47413
analysis for elements by neutron activation and radiochemical separation, 24:43973
analysis for elements by non-dispersive x-ray spectroscopy, 24:38713 (PRNC-135, pp 451-67)
analysis for elements, photonuclear activation, 21:35861
analysis for europium by neutron activation and γ spectrometry, 24:4241
analysis for fluorine, spectrochemical, 24:11506 (IA-1190, pp 183-9)
analysis for gallium in argillaceous, by single addition method, spectrochemical, 22:23003 (IA-1128, pp 97-146)
analysis for gold and uranium by computer-controlled neutron activation and using lithium-activated germanium detectors, 23:24134
analysis for gold by neutron activation, 25:41770
analysis for gold by neutron activation and radiochemical separation by amalgam exchange, 24:16670
analysis for gold by neutron activation of lead alloy obtained in cupel assay, 25:54521
analysis for gold by neutron activation using fire-assay preconcentration, 22:30465
analysis for hafnium and tantalum by neutron activation methods, 22:44985
analysis for hafnium and zirconium by neutron activation, 25:15536
analysis for hafnium and zirconium using 8-hydroxy-7-[(2-hydroxy-3,5-dinitrophenyl)-azo]-1,6-naphthalenedisulfonic acid, photometric, 25:2084
analysis for hafnium by neutron activation method including ion exchange separation process, 23:2202
analysis for hafnium by neutron activation, radiochemical separation method for, 23:75
analysis for indium by neutron activation methods, 22:4036
analysis for iodine, activation, 22:42887
analysis for iodine-129 by neutron activation, 23:28744 (NYO-3624-3)

analysis for iridium and ruthenium by neutron activation following separation by cupellation, 25:48488
analysis for iridium, osmium, palladium, and platinum by neutron activation methods, 21:32121
analysis for iron and scandium by neutron activation methods, 22:10193
analysis for iron, lanthanum, and scandium by neutron activation methods, 23:2201
analysis for iron, molybdenum, and titanium using portable radioisotope x-ray fluorescence analyzer, 22:48829
analysis for lanthanides, use of lithium-drifted germanium detectors for radiometric, 23:19942
analysis for lead and thallium isotopes by ion exchange and mass spectrometry, 24:50347(R) (NYO-844-81)
analysis for lead isotopes using concordia plots, 22:18921
analysis for lead, mercury, tungsten, and other heavy elements by activation and γ spectrometry, 25:6289
analysis for lead, potassium, rubidium, strontium, thorium, and uranium by γ spectroscopy or x-ray fluorescence, 24:13774
analysis for lead, thorium, and uranium by ion exchange chromatography and colorimetry or isotope dilution, 22:30461
analysis for lead-206, lead-207, and total lead, 21:32095
analysis for low levels of polonium-210 by spontaneous deposition on silver, 23:89
analysis for lutetium by neutron activation, comparison of atomic absorption and isotope dilution methods with, 25:15536
analysis for lutetium, terbium, and ytterbium by neutron activation and radiochemical separation, 24:4251
analysis for major and minor elements by bremsstrahlung or neutron activation and γ spectrometry, 25:54
analysis for major elements by neutron activation methods, 23:11474
analysis for manganese, aluminum, and silicon content, neutron activation, 21:6088
analysis for manganese, neutron activation, 22:4010
analysis for mercury by neutron activation and radiochemical separation, 24:27020
analysis for mercury, activation, 21:19580
analysis for metals and silicon, x-ray fluorescence, 21:34215(R) (UCRL-50006-67-1)
analysis for metals by neutron activation and γ spectroscopy, 25:34543 (NIM-1013)
analysis for metals, photoneutron and x-radiometric, 22:50948
analysis for moisture by microwave attenuation, 25:37260(R) (UCRL-50006-71)
analysis for molybdenum by atomic absorption spectrophotometry, 24:33628 (NIM-499)
analysis for molybdenum, effects of ionic strength on automated colorimetric, 24:20693
analysis for neodymium and samarium, isotope dilution method for, 24:50347(R) (NYO-844-81)
analysis for niobium by isotope dilution and spectrophotometry, 24:7413
analysis for noble metals by neutron activation and radiochemical separations, 25:54485
analysis for oxygen by fast-neutron activation, 21:35867
analysis for oxygen by neutron activation methods, 24:11494
analysis for oxygen, activation, 21:45024
analysis for oxygen, review on activation, 21:38912
analysis for palladium by neutron activation and radiochemical separation, 24:36184
analysis for phosphorus, activation, 21:40801
analysis for phosphorus, by neutron activation methods, 22:16442
analysis for potassium, radium, thorium, and uranium by gamma spectrometry using lithium-drifted germanium detector, 23:26190
analysis for potassium, radium, thorium, and uranium by gamma spectroscopy, 24:36179
analysis for potassium, thorium, and uranium by high-resolution gamma spectroscopy, 22:44980 (NYO-3756-2, Sect. G)
analysis for potassium, thorium, and uranium in gnesses from SE Mysore, India by γ spectrometry, 23:43255
analysis for potassium-40 by gamma spectroscopy, 23:35020
analysis for radioactive elements by chemical, radiochemical, and radiometric methods, 25:51391
analysis for radiogenic argon, neutron activation measurement of effects of atmospheric argon on, 24:38767 (IFA-MR-33)
analysis for rare earth elements by spark-source mass spectrometry, 24:36157
analysis for rare earth elements, equipment and method for x-ray fluorescence, 25:2094
analysis for rare earths and yttrium, chemical-spectrographic method for, 21:34215(R) (UCRL-50006-67-1)
analysis for rare earths by mass spectrometric isotope dilution, 21:45012 (N-67-23945)
analysis for rare earths by mass-spectrometric isotope-dilution technique, 22:4044
analysis for rare earths by neutron activation, 22:40003
analysis for rare earths by neutron activation, 23:24113 (CONF-670649-1)
analysis for rare earths by neutron activation and radiochemical separation, 25:46462
analysis for rare earths by neutron activation and γ—γ coincidence spectrometry, 24:140
analysis for rare earths by neutron activation and radiochemical separation and/or γ spectrometry, 24:31299
analysis for rare earths by neutron activation methods after chemical group-separation, 22:25286
analysis for rare earths by neutron activation techniques, 22:47079
analysis for rare earths, evaluation of chemical, chromatographic, and spectrochemical methods for, 24:29194
analysis for rare earths, scandium, and yttrium, spectrographic, 23:28673(R) (UCRL-50006-69)
analysis for rare gases, design of apparatus for, 23:28673(R) (UCRL-50006-69)
analysis for rhenium by neutron activation, 23:24113 (CONF-670649-1)
analysis for rhenium by neutron activation and radiochemical separations, 23:21665 (CONF-670649-30)
analysis for rubidium and strontium by x-ray fluorescence spectrometry, 23:45191
analysis for rubidium and strontium by x-ray fluorescence, correction of matrix effects in, 25:10447
analysis for samarium by epithermal neutron activation methods, 24:2154
analysis for scandium and thorium by extraction and potentiometry, 23:13638
analysis for silicon by fast-neutron activation, 21:35865
analysis for silicon by fast-neutron activation method using internal standards, 23:11469
analysis for silicon by neutron activation methods, 22:25260
analysis for silicon, high-precision activation, 22:4032
analysis for silver by neutron activation and radiochemical separation, 23:37918
analysis for sodium by neutron activation and scintillation counting, accuracy and precision of, 23:17371
analysis for tantalum by cation exchange and neutron activation, 22:50922
analysis for tantalum by neutron activation and radiochemical separation, 25:15532
analysis for tantalum by neutron activation and radiochemical separation, 23:24121
analysis for tellurium by atomic absorption spectrophotometry, 22:27550
analysis for thorium and uranium isotopes at Cape Kennedy, Florida, 24:18905
analysis for thorium and uranium using lithium-drifted germanium gamma spectrometers, 22:326
analysis for thorium and uranium, methods for, 21:41040
analysis for thorium by γ spectrometry, 24:50352 (AAEC/TM-552, pp 10.6-7)
analysis for thorium by neutron activation, 25:48491
analysis for thorium by neutron activation, 24:11549 (IA-1190, pp 93-122)
analysis for thorium by neutron activation and γ spectrometry, 24:11478
analysis for thorium by radiometric assay, 24:50351 (AAEC/TM-552, pp 10.1-5)
analysis for thorium by spectrophotometry, 24:50335 (AAEC/TM-552, pp 11.1-3)
analysis for thorium isotopes, reference standard for, 22:23137
analysis for thorium, gravimetric and photometric, 22:22946
analysis for thorium-228, radiometric, 22:2376
analysis for tin by neutron activation and radiochemical separation, 23:37916
analysis for tin by neutron activation and radiochemical separation, 24:4250
analysis for trace amounts of boron by fluorimetry, 25:10493
analysis for trace amounts of chlorine and lithium by neutron activation and radiochemical separation, 25:10493
analysis for trace amounts of elements by atomic absorption spectrometry, matrix effects on, 25:10457
analysis for trace amounts of elements by neutron activation, 24:29231
analysis for trace amounts of elements by thermal neutron activation, ion exchange, and γ spectrometry, 25:10492
analysis for trace amounts of elements by thermal neutron activation and radiochemical separation, 24:31265
analysis for trace amounts of elements by x-ray fluorescence, methods for correction of matrix effect in, 25:10448
analysis for trace amounts of elements, conference on, 25:10446
analysis for trace amounts of elements, quantometer for spectroscopic, 25:10451
analysis for trace amounts of elements, spectrochemical, 23:28691
analysis for trace amounts of europium, comparison of methods for, 25:48438
analysis for trace amounts of fluorine by pyrohydrolysis and thorium nitrate titration, 25:10493
analysis for trace amounts of iodine, spectrophotometric, 25:15494
analysis for trace amounts of molybdenum by colorimetry using zinc dithiol, 24:50345
analysis for trace amounts of palladium by isotope dilution, 25:28981
analysis for trace amounts of potassium, rubidium, and strontium by atomic absorption spectrophotometry, 25:10458
analysis for trace amounts of tellurium by atomic absorption spectroscopy, 24:16427
analysis for trace amounts of uranium after chromatographic separation on silica gel column, spectrophotometric, 25:18345
analysis for trace amounts of uranium by cathode-ray polarography, 24:22580
analysis for trace amounts of uranium-235 and uranium-238 by neutron activation and radiochemical separation, 25:10494
analysis for trace elements by neutron activation, 23:13670 (CEA-CONF-1162)
analysis for trace elements by neutron activation and radiochemical separation, 24:29
analysis for trace elements by neutron activation and γ spectrometry, 23:35043
analysis for trace elements by neutron activation and radiochemical separation, 24:144
analysis for trace elements in prospecting, review on neutron activation methods for, 25:41767
analysis for trace elements, activation, 23:7456
analysis for trace elements, atomic absorption spectrophotometry, 23:28673(R) (UCRL-50006-69)
analysis for trace elements, problems of contamination during, 25:10427
analysis for traces of antimony, activation, 22:12241
analysis for traces of thorium and uranium by delayed neutron counting, 22:6272
analysis for transition metals by neutron activation, 25:4047
analysis for tungsten by neutron activation and radiochemical separation, 24:34985
analysis for ultramicroamounts of thorium by photometry, 25:57342
analysis for uranium by carbonate precipitation, 22:42626
analysis for uranium by delayed-neutron activation, 24:50354 (AAEC/TM-552, pp 2.17-19)
analysis for uranium by fission track method, 24:22603
analysis for uranium by neutron activation, 25:8219 (PH-3)
analysis for uranium by neutron activation and γ spectrometry, 23:43283
analysis for uranium by neutron activation and γ spectroscopy of tellurium-132 fission product, 23:35051
analysis for uranium by neutron activation methods, 21:45035
analysis for uranium by spectrophotometry, use of silica gel chromatography in, 25:23507
analysis for uranium using induced fission tracks, 24:36178
analysis for uranium, effects of cations and pH on losses in absorption, 21:19743
analysis for uranium, fission track method for, 24:36425
analysis for uranium, lithium-drifted germanium gamma spectrometer for borehole, 25:10849 (CEA-CONF-1694)
analysis for uranium-234 and -238 by alpha spectroscopy, 22:16455
analysis for various elements by spectrographic method, 22:48810 (AERE-R-5799)
analysis for water, 23:33145 (UCRL-50630)
analysis for water, radiometric, 21:28094
analysis for zirconium by fluorometry using quercetin as complexing agent, 25:51377
analysis in Interoceanic Canal Route 17, 23:17318 (UCRL-50555)
analysis of anorthosites and metamorphic, by neutron activation, 24:7422
analysis of argillaceous, for cerium and lanthanum using sulfarsazen, spectrophotometric, 24:16415
analysis of Arizona, Colorado, and Idaho, by neutron activation, 24:39537 (IN-1317, pp 209-31)
analysis of australite-associated, for trace elements by neutron activation and γ spectrometry, 25:39443
analysis of basalt-rhyolite dike, from Iceland and Duluth gabbro complex for rare earths by neutron activation, 25:6288
analysis of basic and ultrabasic, for rare earths by neutron activation methods, 22:4064
analysis of basic and ultrabasic, for thorium and uranium by neutron activation, 25:54495
analysis of core samples using thermal-neutron absorption, 21:19573
analysis of Diablo and stony, for gold and scandium by internal-reference neutron activation method and radiochemical separation, 24:48052
analysis of dibase, for trace elements by neutron activation methods, 21:45065
analysis of Georgian faults in, for trace amounts of gold by neutron activation methods, 24:18919
analysis of German and Czechoslovakian standard, by neutron activation, 25:51408 (IFA-NR-34)
analysis of granitic, in Japan for thorium and uranium, γ spectrometric, 23:9326
analysis of hydrochloric acid solutions of, for trace amounts of lead, thorium, and uranium, 22:25287
analysis of hydrothermally altered, from Tateyama Jigokudani Hot Springs, Toyama, Japan for titanium and zirconium, colorimetric, 25:2098
analysis of lunar and terrestrial, review of neutron activation methods for, 23:35327
analysis of magmatic, for thorium, photometric, 23:21640
analysis of manganese nodules from, for rare earths, 21:15878(R) (MIT-905-81)
analysis of marine, for aluminum by neutron activation methods, 22:21025 (PRNC-104, pp 91-5)
analysis of metamorphic, for mercury, 22:12338(R) (COO-1167-3)
analysis of mountain, for gold, substoichiometric extraction method for neutron activation, 22:30499
analysis of NBS standard G-1 and W-1, for gold by neutron activation, precision in, 24:95
analysis of ocean-floor, for elements by neutron activation, 23:35044
analysis of powdered samples of, by isotope dilution, 21:2991
analysis of pre-shot, at Gasbuggy site, 23:2184 (PNE-G-23)
analysis of Project Gasbuggy holes GB-1 and GB-3, data tabulation on petrographic, 25:8385 (PNE-G-69)
analysis of sedimentary, for bromine, chlorine, and iodine by neutron activation, 25:29033
analysis of sedimentary, for halogens by Szilard—Chalmers reactions following neutron activation, 25:41763
analysis of silicic and basic, for trace elements by neutron activation and γ spectrometry, 24:145
analysis of standard and terrestrial, for antimony, activation, 22:17
analysis of standard and ultramafic, by neutron activation and radiochemical separation, 23:37921

analysis of standard G-1 and W-1, for barium by isotope dilution methods, 21:10267
analysis of standard samples of, from Japan for strontium isotopes and impurities, compilation of data from, 23:45195
analysis of standard ultrabasic, for sodium by neutron activation, 25:26204
analysis of standard, by neutron activation and γ spectrometry, 25:54464
analysis of standard, for antimony by instrumental neutron activation, 25:48490
analysis of standard, for barium and strontium by neutron activation and γ spectrometry, 24:11497
analysis of standard, for bismuth, cadmium, mercury, and thallium by neutron activation and radiochemical separation, 25:54454
analysis of standard, for cerium and europium by neutron activation methods, 22:33259
analysis of standard, for fluorine by γ activation and radiochemical separation, 25:26193
analysis of standard, for palladium and platinum by neutron activation following fire-assay concentration, 25:29022
analysis of standard, for radium and uranium, 24:18926
analysis of standard, for selenium by neutron activation, 25:57380
analysis of standard, for thorium and uranium by fission track methods, 25:44340
analysis of standard, for tin by neutron activation, 25:23538
analysis of standard, for trace amounts of elements by borate fusion, dissolution in EDTA, and ion exchange, methods for, 25:10671
analysis of standard, for uranium by fission track method, 25:10474
analysis of standard, for uranium by fission track registration in muscovite, 24:27001
analysis of terrestrial and lunar, by neutron activation methods, 21:10291
analysis of terrestrial and nonterrestrial, by atomic absorption spectroscopy, comparison of neutron activation analysis results with those from, 25:54511
analysis of terrestrial, for gallium, germanium, indium, and iridium by neutron activation and radiochemical separation, 24:20732
analysis of terrestrial, for noble metals by neutron activation, 25:54484
analysis of U. S. Geological Survey standard, for chlorine by neutron activation methods, 21:32127
analysis of ultrabasic, for heavy elements, 22:12338(R) (COO-1167-3)
analysis of ultrabasic, for potassium by neutron activation, 22:48842
analysis of ultramafic, for thorium by neutron activation and radiochemical separation, 23:9318
analysis of ultramafic, for trace elements by neutron activation and γ spectrometry, 25:54496
analysis of whole, for uranium by fission track method, 24:16449
analysis of, accuracy of nuclear geophysical methods for, 24:31483
analysis of, computer-simulated neutron-activation spectra for, 21:35871
analysis of, conference on spectral, 23:43258
analysis of, development of equipment for activation, 24:9730
analysis of, for cerium, dysprosium, europium, lanthanum, lutetium, samarium, and ytterbium by neutron activation, 21:5797
analysis of, for copper by activation analysis using characteristic x rays, 21:8193
analysis of, for metals and anions by amperometry and polarography, 21:5788
analysis of, for selenium, activation, 21:14157
analysis of, for silver, activation, 21:5789
analysis of, for thorium and uranium by alpha scintillation counting and gamma spectrometry, 21:4452
analysis of, for thorium and uranium by alpha scintillation counting and gamma spectrometry, 22:33209(T) (NSJ-tr-103)
analysis of, for titanium by neutron activation methods, 21:1262
analysis of, for uranium by neutron activation methods, 21:1278
analysis of, method for x-ray fluorescence, 24:19254
analysis of, nuclear physics methods for, 24:18904
analysis of, radioactivity methods for, 22:30709
analysis using hard, soft, and ultrasoft x radiations combined with fast-neutron activation, total, 21:25806
antimony content in standard and terrestrial, 22:17
argon isotopic content of ristschorrite, magnetic mass spectrometric measurements of, 23:17568
argon-40 content in volcanic, effect on accuracy of age estimation, 22:6473
argon-40 diffusion from, (E), 25:55672
beta activity of Bulgarian, measurement of natural, 22:40211
blasting for Abakan—Taishet railway, using massive high explosions, 22:44966(T) (UCRL-Trans-10255)
book: Activation Analysis of Rocks and Other Objects, in Russian, 21:32134
book: Aspects and Perspectives of Nuclear-Geophysical Methods for Exploration and Prospecting of Natural Resources, 23:43406
book: Chemical Methods of Rock Analysis, 25:54403
book: Gamma-Ray Spectrometry of Rocks, 25:34539
brittle failure of, statistical model relating compressive and tensile strengths for prediction of, 23:17558 (UCRL-50573)
carbon isotope contents in, from Alnoe, Sweden, 21:22057
carbon isotope contents in, from Laacher See, West Germany, 21:22057
cavity formation in carbonate, by underground nuclear explosions, distribution of radioactive material in, 21:30559 (HNS-1229-47(Suppl.1))
cavity formation in granitic, by underground nuclear explosions, distribution of radioactive material in, 21:30559 (HNS-1229-47(Suppl.1))
chemical effects of nuclear explosions on, (E/T), 24:41507 (CONF-700101-(Vol.1), pp 850-8)
clay content of paleogenic, gamma logging and self potentials methods for measurement of, 24:16689
colloid movement through, radioactive tracer method for measurement of, 22:23154
composition of, effects on formation of epigenic uranium, 23:47655
composition, density, and porosity of, gamma absorption determination of, 25:46563
contamination of permeable and impermeable, mechanism of radioactive waste, 22:16802
content of potassium and thorium in, of west Australian basement shield, 21:19776
content of thorium and uranium in, determination by autoradiography, 21:3194
crater excavation in dry hard, using nuclear row-charges, Project Buggy preshot evaluation of, 24:19122 (UCRL-50390(Rev.1))
crater formation in hard dry, use of nitromethane explosive for, 22:4296 (PNE-516)
crater formation in hard dry, use of nuclear explosions for, 21:16032 (UCID-5102)
crater formation in hard, in Project Dugout, seismic interference in, 23:35355 (PNE-611)
crater formation in, effects of physical properties on, 23:24333 (UCRL-71456)
crater formation in, from underground nuclear explosions, 21:39073 (PNE-5009)
cratering by underground explosions, dimensional calculations for, 24:33817(T) (UCRL-Trans-10459)
cratering experiments in hard dry rhyolite, using nitromethanol single charges, 22:42924 (PNE-512-F)
cratering experiments in, engineering properties of ejecta material from Project Cabriolet, 24:22829 (PNE-957)
cratering in hard dry, effect of spalling on explosion-induced, 21:36193
crystal structure of, autoradiographic studies on, 25:8234
defects in surface and bulk, effects of mechanical strength, tectonic, and thermal history on, 21:183
deformation behavior of Wagon Wheel Hole No. 1, Pinedale, Wyo, 25:39597 (UCRL-51014)
deformation by underground nuclear explosions, numerical methods for parametric studies of, 24:22823 (CEA-CONF-1484)
deformation in Project Gasbuggy underground nuclear explosion, postshot geologic studies of, 23:26389 (PNE-G-31)
deformation of surrounding, by contained 100 kt underground nuclear explosions, 25:10741
density logging of, filters for gamma—gamma, 22:48919
density measurement of, design of gamma radiometric gage for, 24:2510
density measurements of, gamma filters for radiometric logging, 24:2507
density of Amchitka Island, Alaska, in drill holes UA-1 and UAE-1, 25:23706 (USGS-474-106)
density of, design and performance of double-beam gamma—gamma densimeter for well logging, 22:2440
density of, gamma absorption method for measuring, 22:25513
density of, gamma densimeter for determination of, 22:30700
density of, gamma—gamma logging method for measurement of, 25:21185
density of, gamma-gamma logging method for measurement of, 24:48175
density of, radiometric determination of, 21:28094
density of, radiometric method for measurement of, 21:40997(T) (AEC-tr-6899)
density of, relations to gamma absorption, 22:21190
density of, use of cosmic radiation for determining, (T), 21:29069
density of, verification of universal calibration curve for gamma—gamma logging measurements of, (E), 25:273
deuterium content of, effects of porosity on, 25:4152(T) (CSIRO-Trans-10083)
deuterium content of, effects of porosity on, 24:9514
dielectric properties of, at high temperatures, 21:24834 (NP-16700)
distribution of naturally radioactive elements in carbonate, in the Caucasus, 21:22032
distribution of trace elements in common types of, factors affecting, 22:30692 (PNE-5008)
drilling large diameter holes into, using air-assisted, reverse-circulation system, 22:10136 (NVO-38-12)
effect of underground explosions on, equations of state for calculation of, 21:10492 (UCRL-14711)
effectiveness of layers of crushed, for diverting water from waste burial trenches, 23:31415 (DP-1160)
effects of physical properties of surrounding, on size of underground explosion-produced craters, (E/T), 24:50490
effects of seismic waves from underground nuclear explosions on, 21:30528(R) (AD-631028)
effects of surface nuclear explosions on, use of hydrodynamic model for analysis of, 21:30557 (AD-641311)
effects of underground nuclear explosions on, at Nevada Test Site, 21:16036 (UCRL-50177)
effects of underground nuclear explosions on, mechanical and thermal, 21:1484(T) (AEC-tr-6777)
elastic deformation of, at pressures to 10 kb, acoustic method for measuring dynamic, 24:41478 (CONF-700101-(Vol.1), pp 110-26)
elastic moduli and acoustic velocities in, determination of effects of pressure on dynamic, 24:9492 (UCRL-50750)
elastic modulus of, effects of nuclear explosions on, 23:24304
elastic properties of, surrounding nuclear explosions, numerical model for simulation of, 24:41480 (CONF-700101-(Vol.1), pp 221-9)
elemental analysis of, for uranium prospecting, instruments for, 23:11798
equation of state for silicate, use of HUG code to calculate, 21:19787 (UCRL-14729)
equation of state for, Ester data summary of Hugoniot dynamic, 22:47256 (UCID-5034)
equation of state for, use in prediction of underground nuclear explosion phenomena of, 21:36189 (UCRL-50276)
equation-of-state for crushed, in underground explosions, 21:8491(R) (UCRL-50008-66-1)
equations of state for, analysis of shock wave data to determine Hugoniot, 22:174
evaluation and testing by acoustic emission method, 24:46445 (UCRL-72582)
excavations in, comparison of conventional and nuclear, 22:6508 (PNE-5010)
faults and fissures in, radon tracer method for determination of, 22:14693
fissures in, autoradiographic determination of, 22:14691
fracture and spalling by Greeley Event underground nuclear explosion, 23:13895 (NTS-196)
fracture by Faultless Event underground nuclear explosion, 23:13897 (TID-24360)
fracture of brittle, by contained nuclear explosions, 21:43081(R) (UCRL-50008-67-3)
fracture of hard, for ore extraction, economics of nuclear explosion-induced, 24:29409 (BM-RI-7391)
fracture of Hot Creek Valley, Nevada, by Faultless Event, pre- and post-shot studies of, 24:22774 (USGS-474-65)
fracture of underground, postshot evaluation of Project Gasbuggy nuclear explosion for, 23:24340
fracture zone in, surrounding nuclear cavity, scaling method for estimating size of, 24:41497 (CONF-700101-(Vol.1), pp 519-44)
fractures in Project Gasbuggy GB-3, postshot measurement of micro-, 25:37515
fractures in Project Gasbuggy GB-3, postshot measurement of micro-, 25:4178
fractures in, disposal of radioactive waste in, 21:12619(P)
fractures in, surrounding Project Gasbuggy detonation, postshot studies of micro-, 24:50480 (UCRL-50893)
fracturing by Greeley Event at Pahute Mesa, Nevada Test Site, Dec. 1966, 23:38095 (USGS-474-12)
fracturing of deep underground hot, for use as electric power plant heat source, feasibility study of underground nuclear explosions for, 25:44467 (PNE-1550)
fracturing of underground, use of nuclear explosions for, 22:48972
gamma absorption by, measurement using cesium-137 source, 22:21190
gamma activity of polymictic, measurement of natural, 25:23707
gamma attenuation in, coefficients for, 22:28193
gamma emission from lunar surface, (E), 22:8930
gamma emission from lunar, (E), 23:16627
gamma emission from terrestrial, measurement of, 21:1445 (CEA-R-3017)
gamma fields in, selective logging of, 24:307
gamma radiation field in, use in location of oil deposits, 21:34334
gamma radiation from lunar, 21:11492(T) (JPRS-38793)
gamma radiation in, gas and oil prospecting methods using measurements of natural, 25:15768
gamma-scattering in, use in gamma and gamma—gamma well logging, 25:13113
gas flow in tunnels in nuclear explosion-fractured, computer program for calculation of, 24:41481 (CONF-700101-(Vol.1), pp 230-9)
gas losses from Apollo 11 lunar, (E), 24:21520
geochemistry and mineralogy of upper mantle, use of uranium abundance for study of, 23:33279
geologic properties of, effects on slope of nuclear crater fallback, 24:9543 (NCG-TR-14)
geologic properties of, in Nevada Test Site emplacement hole U20e, 23:17557 (TID-24987)
geology and lithology of drill hole UE20p, at Nevada Test Site, 23:40858 (USGS-474-15)
geology of southeastern New York and southern New England, correlation with γ aeroradioactivity, 22:169 (CEX-58.4.6)
geology of uranium-bearing, of Hiland—Clarkson Hill Area, Wyoming, 21:22053
geophysical properties of Project Cabriolet cratering site, preshot studies of, 23:47624 (PNE-953)
geophysical properties of Project Palanquin cratering site, preshot studies of, 23:7655 (PNE-906)
geophysical properties of underground nuclear explosions environment, computational aids for estimating effects of explosion on, 25:6447 (UCRL-50929)
geophysical properties of underground nuclear explosion environment, equation for calculating effects on cavity radius, 24:22827 (NVO-1163-TM-15)
geophysical properties of underground nuclear explosion media, effects on cavity formation, 24:338 (CEA-R-3779)
geophysical properties of, comparison of well logging methods for measuring, 25:13104 (UCRL-50855)
geophysical properties of, dimensional analysis of effects of underground explosions on, 24:41543 (CONF-700101-(Vol.2), pp 1386-1405)
geophysical properties of, effects of underground nuclear explosions on, 24:41476 (CONF-700101-(Vol.1), pp 75-88)
geophysical properties of, in drill hole UAe-3, Amchitka Island, Alaska, 24:7509 (USGS-474-50)
grain size of Wagon Wheel Hole No. 1, Pinedale, Wyo, 25:39597 (UCRL-51014)
hafnium—zirconium abundance ratio in, variation of, 23:2202
heat flow in, from drill holes in Western Australia, (E), 24:33786
helium content in, 24:33788

helium content of, in vicinity of uranium deposits, use for uranium exploration, 23:13883 (GJO-928-1)
helium isotopic content of ristschorrite, magnetic mass spectrometric measurements of, 23:17568
Hugoniot equation-of-state data for, (E), 21:3192 (SC-RR-66-548)
identification and location of central Nevada, tabulated drill hole data on, 23:47627 (USGS-474-18)
ion movement through, radioactive tracer method for measurement of, 22:23154
isotopic variations in, natural, 21:14315
labeling of, evaluation of calcium-45, chromium-51, iron-59, and silver-110 for, 23:446
leaching of uranium from, underground, 22:18899
lead isotopic composition in carbonate, isochronic method for determining, 21:24111
lead-206/lead-208 abundance ratio in, atomic absorption method of determining, 23:26178
lead-207/uranium-235 ratio in upper mantle, 23:17565
lead-207/uranium-236 ratio in upper mantle, 23:17565
lead-207/uranium-238 ratio in upper mantle, 23:17565
lithology of Drill Hole UAe-2, from 0 to 3,580 ft on Amchitka Island, Alaska, 24:5743 (USGS-474-52)
lithology of drill hole UAe-2, site B, Amchitka Island, Alaska, 24:7510 (USGS-474-53)
lithology of drill hole UAe-3, from 4,800 to 7,012 ft, Amchitka Island, Alaska, 24:9494 (USGS-474-51)
lithology of Drill Hole UAe-6c, from 0 to 6,999 ft on Amchitka Island, Alaska, 24:2299 (USGS-474-54)
lithology of Drill Hole UAe-7c, 0 to 7,495 ft depth on Amchitka Island, Alaska, 24:2298 (USGS-474-32)
lithology of Pahute Mesa Drill Hole No. 1, revised data on, 25:8357 (USGS-474-96)
location and types of underground, in central Nevada, well logging data on, 23:43402 (USGS-474-2)
loosening in ground, borehole radiometric densimeter for measurement of, 24:16910
luminescence under proton bombardment, (E), 22:35285(R) (AERE-PR/NP-13)
macro- and microdeformation in, from underground nuclear explosions, 21:36189 (UCRL-50276)
magnesium isotopic composition in, 22:21031
magnesium isotopic composition of, 21:3196
magnetism in, effect of shock on intensity and orientation of natural remanent, 23:29032
mechanical properties of stemming material of pea gravel, for underground nuclear explosion emplacement holes, effects of emplacement and explosion stresses on, 25:44477 (UCRL-51034)
mineral composition of lunar, (E), 23:16627
mineral content of, determination using thermal neutron average lifetime measurements, 25:15767
mineralogy of Wagon Wheel Hole No. 1, Pinedale, Wyo, 25:39597 (UCRL-51014)
minerals in USSR ultrabasic, radioactivity of, (E), 25:276
minor element content in Japanese, 22:4290
moisture content of, effects on accuracy of radiometric well logging measurements, 24:16691
moisture content of, gamma absorption method for measurement of, 22:25513
motion of surface, from Milrow Event, (E), 25:15805 (NVO-79, pp 20-40)
neutron distribution in, of different porosity, Monte Carlo method for calculation of photo-, 24:9514
neutron slowing down and thermalization in, (T), 21:25400(T) (UCRL-Trans-10087)
nuclear explosions in carbon- and hydrocarbon-bearing, Project Gasbuggy data on chemical effects of, 24:41504 (CONF-700101-(Vol.1), pp 794-814)
nuclear explosions in, evaluation of static equilibrium theory of seismic decoupling of, 21:24129 (UCRL-50182)
oxygen content of, determination by neutron activation analysis of, 21:24113
oxygen isotope contents in, from Alnoe, Sweden, 21:22057
oxygen isotope contents in, from Laacher See, West Germany, 21:22057
oxygen isotopic compositions in, variations in, 22:30714
oxygen isotopic exchange between gases or solutions and, in rock formation process, 24:44025
oxygen-16/18 ratios in Precambrian, of Michigan, Wisconsin, and Minnesota, 21:1450
permeability in and near explosion-produced craters, effects on crater slope stability, 25:13102 (NCG-TR-27)
physical properties and structure of Project Buggy site, 23:43400 (PNE-322)
physical properties of breccias, in Drill Hole UAe-2, Amchitka Island, Alaska, 23:17556 (TID-24986)
physical properties of crushed aggregate, 23:28460 (ORNL-4353, pp 141-278)
physical properties of deep, at underground nuclear explosion sites, well logging methods for measuring, 24:11695
physical properties of drill hole UAe-1, Amchitka Island, Alaska, 24:7506 (USGS-474-46)
physical properties of drill hole UAe-1, Amchitka Island, Alaska, 24:9493 (USGS-474-48)
physical properties of dry subsurface, at Palanquin Event test site, 22:51124 (PNE-905)
physical properties of surface, at southeastern Amchitka Island, Alaska, 24:5742 (USGS-474-43)
physical properties of, in drill hole UAe-1, Amchitka Island, Alaska, 24:7507 (USGS-474-47)
physical properties of, in drill hole UAe-3, Amchitka Island, Alaska, 23:47626 (USGS-474-6)
physical properties of, in drill hole UAe-6c, Amchitka Island, Alaska, 23:43404 (USGS-474-33)
physical properties of, in Greater Los Angeles Area, Calif, 24:29406 (TID-25363)
plutonium-239 abundance in, 22:25516
plutonium-239 abundance in, 23:2411(T) (AEC-tr-6968)
porosity of ground-water-bearing, use of radioactive tracers for measurement of, 22:25508
potassium abundance in crystalline, of Canadian Shield in northern Quebec, 21:25975
potassium content in Australian granitic, 22:25521
potassium content in earth mantle basic, 22:2201
potassium content of ultramafic, of western North Carolina, 23:26355
potassium/uranium ratio in ultramafic, 24:33783
pressure—volume relation for Nevada Test Site tuff, data tabulations on, 23:21809 (UCRL-50578)
pressure—volume relation for, to 40 kb at 25°C, method for measurement of, 24:41477 (CONF-700101-(Vol.1), pp 89-109)
pressure-volume relation of, effect of porosity on, 21:10492 (UCRL-14711)
production and supply of serpentine, for Fast Test Reactor shielding, 22:15171 (BNWL-641)
properties of explosion-containing, effects on spherical wave propagation in, (T), 24:33807 (AD-703295)
properties of Sahara Desert, effects of underground nuclear explosions on chemical and mechanical, 23:49975 (CEA-R-3762(1))
properties of volcanic, in central Nevada, 24:53080 (USGS-474-69)
properties of, design and performance of high-speed penetrating projectile for determining, 21:38838 (SC-DC-67-1922)
proton reactions with, luminescence from, (E), 22:11113
quark abundance in, suitability for analysis of, 21:37779
quark concentration in, solid-state detector study of upper limit for, (E), 24:10665
radiation effects on colorimetric properties of lunar-type, proton, (E), 23:6873
radiation effects on growth of viscous magnetization of, gamma, 25:44448
radiation effects on optical properties of powdered, hydrogen-ion, 21:29104
radiation monitoring of northern New England, 22:2220
radioactive atom distribution in potassic alkaline, 21:1469
radioactive dusts from, effects of, on incidence of pneumoconiosis in animals following inhalation, 22:45683
radioactive elements in Vosges Mountain, measurement of radioactivity of, 23:17570
radioactive elements in, effects of volcanogenic processes on heavy, 22:25506
radioactive elements in, estimation using gamma spectroscopy and nomograms, 21:43068(T) (AEC-tr-6903)
radioactive waste disposal in water-saturated sedimentary and unsaturated, gaseous, 22:16822
radioactive waste disposal in, by hydraulic fracturing, 22:6436 (ORNL-4168, pp 1-60)
radioactive waste disposal into deep permeable, feasibility studies of, 22:16823
radioactive waste fixation in, 21:25939
radioactive waste storage in, feasibility studies of, 23:9681 (ORNL-4316, pp 1-69)
radioactivity distribution in Central Kazakhstan, central Asia, 24:22784
radioactivity distribution in, effect of composition on, 21:8436
radioactivity from argon-36 and -40 in, effects on atmospheric argon contamination, 21:6019
radioactivity from simulated fallout, effects of surface characteristics on, (E), 23:454 (AD-670480)
radioactivity in Bulgaria, natural background β and γ, 21:43373
radioactivity in Kumano District, Japan, survey of, 23:49935
radioactivity in migmatite, nuclear emulsion method for measurement of, 21:36124
radioactivity in Ukrainian shield, construction of tectonic scheme to study, 22:10363
radioactivity in underground granitic, near Salt Lake City, Utah, measurement of, 22:45181
radioactivity levels in Neogene Tertiary, Niigata Prefecture, Japan, 21:36164
radioactivity levels in tertiary, in Niigata Prefecture, Japan, 21:36168
radioactivity of Antarctica, measurement of natural, 23:17562
radioactivity of Japanese, radiometric method for measuring, 22:8216
radioactivity of middle Volga region soil-forming, measurement of natural, 22:25520
radioactivity of natural, from Southern Bulgaria, 22:27906
radioactivity of surrounding, following contained underground nuclear explosion, method for calculation of, 24:48202(T) (UCRL-Trans-10475)
radioactivity of ultramafic, measurement of low-level, 22:14583
radioactivity of underground, calculation of natural, 25:15773
radioactivity of, at Sydney and Lucas Heights, Australia, 21:1454 (AAEC/TM-317)
radioactivity of, from drill holes in Western Australia, (E), 24:33786
radioactivity of, measurements on, 25:10583(R) (AECL-3776)
radioactivity of, on Pacific Island of Niue, 22:2215
radioinduced changes in simulated lunar, ion-beam, (E), 24:12578
radioisotope distribution in Florida, 22:2204
radioisotope distribution in, fractured by contained nuclear explosion, 25:54826(T) (UCRL-Trans-10543, pp 99-116)
radioisotope sorption by Black Sea, 23:9930(T) (AEC-tr-6940, pp 80-7)
radionuclides in, methods of determining γ-emitting, 22:2213
radium content and radon release from, effect of earthquakes on, 22:8211
radium content in, effect on radon content of mineral waters, 22:8211
radon content of, in vicinity of uranium deposits, use for uranium exploration, 23:13883 (GJO-928-1)
radon diffusion coefficients for, instantaneous source method for measuring, 22:40220
rare earth abundance ratios with thorium and uranium in, correlation with ionic radii, 21:28090
rare earth content of U.S. Geological Survey standard, (E), 24:48174
reductive properties of, use for estimation of occurrence of uranium deposits, 22:51112
reinforcement of masses of, by bolting, 24:29153 (TID-25420)
removal of large masses of, in drilling large diameter holes, 21:19783 (NVO-38-9)
rubidium content of ultramafic, of western North Carolina, 23:26355
seismic velocities in, comparison of nuclear explosion and laboratory measurements of, 21:24122
selenium content of multi-colored Mesozoic—Cenozoic, paragenesis of, 24:7533
separation from potatoes, gamma absorption coefficient for use in, 22:37941
separation of actinides from fused, following underground thermonuclear explosion, 21:39008
separation of actinides from halite debris from nuclear detonations, method for ion exchange or solvent extraction, 21:3168(P)
separation of calcium, potassium, rubidium, sodium, and strontium from acid solutions of, by solvent extraction and ion exchange, 25:21146
separation of cerium and europium from, by ion-exchange chromatography, 22:33259
separation of monazite and steenstrupine from uraniferous, by flotation method, 21:12500 (RISO-133)
separation of thorium and uranium from nitric acid solutions of, by solvent extraction using benzoic acid—trioctylphosphine oxide, 25:31770
separation of trace amounts of elements from standard, by borate fusion, dissolution in EDTA, and ion exchange, 25:10671
slope stability of nuclear craters in, (E/T), 24:41556 (CONF-700101-(Vol.2), pp 1661-1678)
solidification temperatures of coral, effects on fission product adsorption on, 21:41059 (USNRDL-TR-67-70)
sorptive properties of Italian tuff, 21:6016 (RT/PROT-(66)6)
sorptive properties of volcanic, for calcium, cesium, sodium, and strontium, 21:12383 (RT/PROT-(66)18)
strain in crystalline, development of thermoluminescent method for studying, 24:22768(R) (COO-1057-52)
strength of underground, effects on nuclear cavity size, (T), 23:24336
stress and deformation analysis of, for use in hydraulic fracturing method of waste disposal, 21:28185 (ORNL-P-3054)
stress in Project Payette site, evaluation of instrumentation for in situ measurement of, 24:16679 (USGS-474-61)
stress wave propagation by underground, effects of physical properties on, 24:41479 (CONF-700101-(Vol.1), pp 142-220)
stresses in nuclear explosion-containing, SOC computer calculations of, 24:50488
stresses in subsurface and close-in surface, during Cabriolet event, 24:36446 (PNE-964)
stresses in underground, from earthquakes and underground explosions, elastic vibration method for calculation of, 22:25557 (SA-6)
strontium content of ultramafic, of western North Carolina, 23:26355
strontium content of, in Central American ignimbrite, 21:39030(R) (COO-689-76)
strontium isotope content of ultramafic, of western North Carolina, 23:26355
strontium-86 abundance relative to strontium-87 in xenoliths in, near Delegate, New South Wales, geochemistry of, 23:38097
strontium-86/-87 ratio in pyroxene granulite, 22:6435 (MIT-1381-15)
strontium-86/-87 ratio in ultramafic, of western North Carolina, 23:26355
strontium-86/strontium-87 abundance ratios in, 24:41419(R) (COO-689-130)
structure of upper mantle, effects on P wave travel times, 23:11681
temperature of Sahara test-site, effects of underground nuclear explosions on, 24:41467 (CEA-R-3990)
thermal energy stimulation in deep underground, using underground nuclear explosions, 24:25157
thorium abundance in crystalline, of Canadian Shield in northern Quebec, 21:25975
thorium abundance ratios with lanthanides and uranium in, correlation with ionic radii, 21:28090
thorium and uranium content and distribution in hydrothermally altered, effects of acidity on, 24:44113
thorium content and distribution in, fission track method for determination of, 23:35322 (IAE-1519)
thorium content and distribution of alkaline, of Ilimaussaq intrusion, south Greenland, gamma spectrometry method for determination of, 25:41943
thorium content in Australian granitic, 22:25521
thorium content in earth mantle basic, 22:2201
thorium content in granitic, of western Aldan shelf, 22:27935
thorium dioxide content of, in Uttar Pradesh, India, 24:25150
thorium distribution in Central Tajikistan granitoid, 25:34734
thorium distribution in earth upper mantle, relations with magma contamination and genesis, 25:46572
thorium distribution in Italian volcanic, effect of volcanic processes on, 22:30729
thorium distribution in potassic alkalic, 22:10394
thorium distribution in, fission track method for determination of, 23:35347

- thorium distribution in, of Plana Pluton, Bulgaria, 24: 44105
- thorium/uranium abundance ratios in, 23:19860
- thorium/uranium ratio in, airborne radiometers for measurement of, 25:23714
- thorium—uranium distribution relations in basalts, geothermal and petrogenetic implications of, 21:25974
- thorium-230 abundance ratios to thorium-228 and uranium-234 in, 22:23137
- thorium-230/uranium-234 ratio in young volcanic, 21: 36117
- trace element content of sedimentary, effects on neutron-induced radioactivity, 22:21187
- tritium content, distribution, and residence time in Sedan Event crater ejecta, (E), 25:37512
- underground explosion effect on, large yield, 22:35971
- uranium abundance in crystalline, of Canadian Shield in northern Quebec, 21:25975
- uranium abundance ratios with lanthanides and thorium in, correlation with ionic radii, 21:28090
- uranium content and distribution in basic and ultrabasic, fission fragment track studies on, 23:15814
- uranium content and distribution of alkaline, of Ilimaussaq intrusion, south Greenland, gamma spectrometry method for determination of, 25:41943
- uranium content in Australian granitic, 22:25521
- uranium content in deep-lying, in continental shelf and upper mantle, 25:48669
- uranium content in earth mantle basic, 22:2201
- uranium content in granitic, of western Aldan shelf, 22: 27935
- uranium content in metamorphic, in Swiss Alps, 21: 14337
- uranium content in old, in USSR coastal area, 24:2325
- uranium content in, analysis of, 21:10479
- uranium content in, fission fragment method for determination of, 22:18915
- uranium content of Carpathian, petrographic relations of, 22:42860
- uranium content of Italian Alpine Range, relations with geochemical anomalies, 25:48608
- uranium content of multi-colored Mesozoic—Cenozoic, paragenesis of, 24:7533
- uranium content of ultramafic, 24:33783
- uranium content of various Swiss, 21:45260
- uranium content of, effects of geophysical composition on, 24:14092
- uranium content of, of Ukrainian Shield, 21:195
- uranium content of, radiometric analysis of, 21:34342 (JINR-P13-3159)
- uranium desorption and recrystallization in, during metamorphism, 25:57581
- uranium distribution in Aldan Shield metamorphic, 22: 10403
- uranium distribution in carbonate, in Orenburg Province, USSR, 22:10390
- uranium distribution in Central Tajikistan granitoid, 25: 34734
- uranium distribution in earth upper mantle, relations with magma contamination and genesis, 25:46572
- uranium distribution in Italian volcanic, effect of volcanic processes on, 22:30729
- uranium distribution in potassic alkalic, 22:10394
- uranium distribution in, fission track method for determination of, 23:35347
- uranium distribution in, of Plana Pluton, Bulgaria, 24: 44105
- uranium distribution in, use of fission track method for determination of, 21:24120
- uranium enrichment of, effect of sedimentation of organic materials on, 21:8436
- uranium isotope distribution in Floridan aquifer, north Florida, geochemistry of, 24:14064
- uranium leaching from crushed magmatic, by water, 24: 27203
- uranium oxide content of, in Uttar Pradesh, India, 24: 25150
- uranium trioxide content of Neogene, in Niigata Prefecture, Japan, 21:36167
- uranium-234/-238 anomalies in near-surface, in arid regions, 22:18914(T) (AWRE-Trans-55)
- volume of solid and fractured, at 25°C, effects of pressures at less than or equal to 40 kb on, 24:36397
- volume of, determination by gamma—gamma measurements in 2π geometry, 25:21192
- waste disposal in halite, in Federal Republic of Germany, 21:22113 (BMwF-FBK-65-06)
- waste disposal in hydraulically fractured, 22:2323(R) (ORNL-TM-1887)
- waste disposal in hydraulically fractured, site evaluation for, 23:31512
- waste incorporation in molten silicate, surrounding deep nuclear cavity, in-situ method for high-level liquid, 25: 44570 (UCRL-51044)
- water content of, surrounding underground nuclear explosions, effects on crater formation, 25:4179
- water flow in fissured, effects on rock massif stability, 24:38698(T) (UCRL-Trans-10469)
- weakening in, effect of dehydration on, 21:43050
- well logging in, neutron—neutron method for, 21:6022

ROCOLOY 270
- elongation of, precision method for measuring, 21:11210 (BDX-613-92)

Rod Plasma Injector
- see Plasma Accelerators

Rodents
- see common names for specific animals, or Mammalia for general references

RODS
- acceleration of pushed and pulled, Lorentz contraction and asynchronous formulation for, 24:22003
- air flow at entrance region of density packed clusters of, wind tunnel measurements of velocity of, 25:48709(T) (AEC-tr-7181)
- channels formed by closely packed, turbulence scale determination in, 22:21281
- deformation of rotating, effects of curvature on, (T), 24: 36477
- design of electrically-heated, for use in simulated fuel channel critical heat flux tests, 24:46416(R) (GEAP-10196)
- diffusion in metallic, tables for deriving coefficients of, 22:6932 (DP-1111)
- displacement in vibrating, radial variation of longitudinal, (E/T), 25:8182 (UCRL-50947)
- extrusion of ribbed, equipment and method for, 24: 7565(P)
- extrusion using dissimilar metals, methods for, 22:49693 (NP-17605)
- fabrication of, metal powder molding device for, 21: 43118(P)
- flow of boiling water in vertical, burnout correlation for, 21:30607 (AE-276)
- flow of steam—water through bundles of, film thickness measurements for spray annular, 22:42958 (CONF-680903-1)
- fluid flow normal to rigid cylindrical, review of hydrodynamic properties of, 24:7579 (WCAP-2670)
- fluid flow through bundles of smooth parallel, velocity fields in turbulent, 25:32125
- fluid flow through bundles of, convective heat transfer in axial turbulent, 25:54866 (EIR-198)
- fluid flow through bundles of, pressure drop in axial, 25: 48712(T) (KFK-tr-365)
- fracture of hydrostatically extruded hard core clad, effects of core to sleeve bonding on, 25:28869 (NYO-4078-3)
- gravitational field from energy—momentum—stress tensor for uniformly rotating, 25:30997
- gravitational radiation flux to octupole order from spinning, angular-momentum, 23:39826
- heat transfer and fluid flow in bundles of, computer program for calculation of, 25:34794
- heat transfer from bundles of, calculation method for radiant, 21:43184
- heat transfer from crossed, with normal flow of Freon-113 coolant, 22:240
- heat transfer from heated, effects of surface rib configuration on high-temperature, 24:29439
- heat transfer from nonuniformly heated, in turbulent liquids, equation for calculation of, 25:18580
- heat transfer from unbaffled bundles of, to flowing mercury, effects of rod displacements on, 24:46422
- heat transfer from unbaffled bundles of, to flowing mercury, effects of rod displacements on, 25:23734 (CONF-681209-4)
- heat transfer from water-immersed, departure from nucleate boiling in, 21:41120
- heat transfer from, burnout heat flux of flowing water in surface, 21:43161
- heat transfer in slender straight, calculation of, 25:54885
- heat transfer to liquid metals flowing longitudinally along bundles of, at Prandtl numbers 0.007 to 0.03, 24: 22873
- heated bundles of, burnout in uniformly, 21:26043 (AEEW-R-463)
- inspection of, equipment and method for nondestructive diameter, 23:38218(P)
- liquid flow through clusters of, calculation of isothermal and laminar, 25:23732(T) (AEC-tr-7184)
- neutron absorption in black, effective boundary conditions at surfaces for, (T), 23:13187
- oscillation at high temperatures, equations for, 25: 6251(T) (SC-T-70-4042)
- position indicator design for rotating, 21:28294(P)
- pressure loss tests of 21-rod smooth and rough clusters, 21:1514 (TRG-Report-29)
- stability and vibration of, exposed to pulsating parallel flow, 24:31586
- stability of rigid, in tube with compressible laminar fluid flow, 23:2499 (WANL-TME-1136)
- stability of single, supported at several axial positions, effects of surface conditions on thermal, 25:32123 (TRG-Report-2089)
- stress and velocity distribution on wall of close-packed, 21:32319
- stress waves generated in cylindrical, from 10-MeV electrons, (E/T), 21:18824
- stress waves in dispersive elastic, analysis of thermally generated, 23:17309 (SC-DC-67-2005)
- support system for long, design of, 22:12514(P)
- surface roughness of, effect on heat transfer rates, 21: 41136
- triangular arrays of parallel, velocity distribution and flow resistance in turbulent flow in, (E), 21:26056
- vibration of end-supported rotary, at critical speeds, effects of bearing conditions on, (T), 24:36478
- vibration of slender single and bundles of, within fluid-filled tube, study of acoustically-induced, (E/T), 25: 57621 (TRG-Report-2141)
- vibration response of long flexible cylindrical, in axial flow, tentative design guide for calculation of, 25: 41983 (ANL-ETD-71-7)

Roentgen Units
- see Radiation Standards and Units

Roller Bearings
- see Bearings

ROLLER COASTER OPERATION
- air sampling in, to study dispersal of radioisotopes following nuclear weapons accidents, 24:22789 (SC-RR-69-788)
- cascade impactors for, calibration of, 21:36421 (AWRE-O-94/64)
- plutonium-239 contamination of Tonopah Test Range during, survey of, 23:24309 (NVO-162-28)
- plutonium-239 content of tissues in cattle from environs of, in relation to MPC levels for man, 23:38555 (SWRHL-53-r)

ROLLING
- book: Metal Deformation Processes: Friction and Lubrication, 25:45013
- effects of hydrostatic, on malleability of brittle materials, 24:34882 (RFP-1383)
- equipment and method for cold, of zirconium and zirconium base alloys, 23:21873(P)
- method for form, for production of close tolerance shapes in most wrought metals and alloys, 25:42827
- pressure distribution at contact arc of metal with rolls in, mathematical analysis of, 23:27000(T) (ORNL-tr-2113)

ROLLING MILLS
- design for production of thin metal foils, 23:47670 (ORNL-TM-2625)
- operation, performance, and uses of multiple-roll cold, 24:50509
- performance of laboratory-size, for isotopically pure metals, 24:48806 (ORNL-TM-3085)

ROMANIA
- development of power reactors in, 24:13494
- exponential pile for, British agreement for supply of equipment and materials for, 23:28564
- fallout monitoring of atmosphere of Bucharest, 1964 to 1966, 22:51103
- fission product content in plants near Cluj City, 21: 16349(T) (JPRS-38849)
- international cooperation in field of atomic energy by, 25:54324 (A/CONF.49/P-341)
- nuclear fuel industry in, long-range prospects for, 25: 49393
- nuclear power in, predictions to 1975 of development of, 23:9116
- nuclear power plants in, model for optimum development of, 24:20497
- nuclear technology in, development of, 24:46398
- organization and operation of State Committee for Nuclear Energy in, 24:39515(T) (JPRS-50347, pp 21-9)
- power plants in, comparison of thermoelectric and nuclear, 23:24355
- radiation dose at sites of radon-containing springs in, background, 21:45644
- radiation protection of workers in, standards for, 22: 33832
- radioactive waste decontamination and reprocessing in, description of facilities for, 24:5851
- radioactive waste disposal in, research on treatment methods for, 22:21301
- radioactivity content of honey in, artificially and naturally occurring β and γ, 22:15011
- radioactivity monitoring in Black Sea off coast of, during 1964 to 1967, 25:26745
- radioactivity monitoring in environment surrounding Brasov, during 1961 to 1968, 25:42424
- radioactivity monitoring of environment of, 1964 to 1968, 25:41928
- radioactivity of chernozem soils from, as function of titanium and zirconium oxide contents, 22:30690 (IFA-IS-49)
- radioisotope and radiation uses in, 25:51608 (A/CONF.49/P-340)

Romashka (U.S.S.R.)
- see Nuclear Auxiliary Power Systems

Romeo Burst
- see Castle Operation

Rongalite
- see Formaldehyde Sodium Sulfoxylate

ROOTS
- analysis of tomato, for arsenic by neutron activation and scintillation counting, 23:43281
- assimilation of carbon-14-labeled carbon dioxide by, of grasses, 23:16236
- calcium accumulation in, of barley and bush beans, calcium-45 tracer study of, 23:41192
- calcium uptake by, of lettuce, soybean, tomato, and wheat, 21:20024(R) (COO-1495-2)
- calcium-45 metabolism by, of trees, 21:41315 (NP-16794)
- calcium-45 transport rate in, of Zea mays, compared to strontium transport rate, 21:34598
- calcium-45 uptake and distribution in, of nonleguminous plants, 22:6764
- calcium-45 uptake by rice plant, 21:28355
- calcium-45 uptake by, of Phaseolus vulgaris, microautoradiography of, 21:41369
- calcium-45 uptake by, of Poplar and Thuyas trees, 21: 41344
- carbon compounds in wheat, use of carbon-14-labeled carbon dioxide for diffusion studies of, 24:33995
- carbon-14 losses from, of wheat seedlings, effects of collecting solution on, 24:25376
- cell phase in excised pea, effects of carbohydrate supply on, 22:28390
- cesium accumulation in, of barley and bush beans, cesium-137 tracer study of, 23:41192
- cesium-134 uptake by barley, factors affecting, 21:26664
- cesium-137 content of vegetable, in Czechoslovakia, 21: 1726
- cesium-137 content of, of tulip poplar seedlings, effects of leaching on, 23:45627 (ORNL-TM-2660)
- cesium-137 uptake by barley, from soil surface, 21: 28427(R) (BNWL-335(Rev.))
- cesium-137 uptake by excised, effects of complex formation with humic acid on, 21:20086
- cesium-137 uptake by excised, of wheat, effects of sugars on, 21:22300
- cesium-137 uptake by, effects of soil properties on, 21: 14555 (BNWL-280, pp 107-8)
- cesium-137 uptake by, following inoculation into trees, 24:9802 (ORNL-TM-2737)
- cesium-137 uptake by, of beans, 21:14579
- cesium-137 uptake by, of plants, effects of soil fertility and texture on, 21:43413
- cesium-137 uptake by, of Trifolium pratense, 25:4449
- chlorine-36 uptake by, of St. Augustine grass, effects of moisture on, 21:22304
- chromosome aberrations in, induced by treatment with γ-irradiated glucose, in Vicia faba, 21:12752(R) (TID-23508)

chromosome aberrations induced in, of Tradescantia and Vicia following treatment with γ-irradiated glucose solutions, 22:51378
copper-64 uptake by barley, bean, and pea, effects of pH on, 25:23999 (SGAE-LA-3/1970)
cytology in, of barley plants grown from seed treated by ethyl methanesulfonate, 21:13063
determination of quinones in cotton, following radioinduced synthesis in leaves, 21:10743
development in relation to uptake of water by plants, 22:23352
development of plant, use of tracer techniques to study, 22:6449
development of seedling, in linen rolls, use of, to simulate field conditions, 23:2983
development of Vicia faba, effects of colchicine and indole acetic acid on, 23:29894 (COO-1625-26)
development of, in barley plants grown from seed exposed to γ radiation in successive generations, 21:11130
development of, in Lens esculentum plants grown from seed γ-irradiated following incubation in uridylic acid, 21:10768
distribution in soils, tracer techniques to determine, 25:52017 (A/CONF.49/P-537)
distribution pattern of rice, phosphorus-32 tracer study of, 25:32314
effects of chemical antimitotic compounds on mitosis in cells of, 21:20431
effects of compressed nitrogen on diffusion of oxygen in irradiated Vicia, 21:6721
effects of plant density on development of, of radish plants grown from γ irradiated seeds, 21:9013
effects of temperature of tomato, on iron uptake and translocation, 21:1715
effects of tritiated thymidine on tissues of, in Vicia faba, 21:9007 (ORNL-3999, 160-5)
enzyme activity in barley, role of rhizoplane organisms in, 21:20031(R) (UCB-34-P-50-3)
exchange of tissue water of, with water in the surrounding medium, 21:8706
fluorine-18 sorption by, of alfalfa, bean, and tomato plants, 24:9749
formation of lateral inhibition of, by tritiated thymidine, 21:20421(R) (NYO-3561-3)
growth in dormant woody plants, effects of temperature on, 22:33812(R) (NYO-2598-36)
growth in relation to transport of cesium-137 in soil, 22:10739 (BNWL-480, pp 127-51)
growth of artichoke, in vitro, effects of sugars γ-irradiated in aqueous state on, 22:40519
growth of corn, effects of calcium on, 22:33586 (UCLA-12-640, pp 31-44)
growth of plant, physiological mechanisms of, 22:12782
growth pattern of crop plant, rubidium-86 tracer studies of, 25:51966 (A/CONF.49/P-506)
growth rate of potato, tracer method for measurement of, 24:31769 (IAN-A-7)
ion fluxes in corn, effects of carbonylcyanide m-chlorophenylhydrazone and uranium oxide ions on chlorine and rubidium, 25:8602
ion transport into xylem sap of, 21:20019 (ARCRL-16, pp 27-69)
ion uptake by corn seedling, mechanisms for, 21:6431
ion uptake by plant, from soils, 21:21840 (STI/DOC-10/65)
ion uptake by, effects of carbon dioxide on, 22:21011(R) (UCB-34-P-5-47)
ion uptake from soil by, mechanisms for, 22:27526
iron-59 uptake by excised, effects of complex formation with humic acid on, 21:20086
iron-59 uptake by, of St. Augustine grass, effects of moisture on, 21:22304
lead-210 distribution in, of kidney bean plants, effects of citrate ions, 2,4-D, and salts on, 22:6728
manganese uptake by barley, 21:40743 (RLO-1547-5)
metabolism of nitrates in, of wheat following nitrogen depletion, effects of ammonium and nitrate availability on, 22:25718(R) (ORO-2410-9)
mitosis in cells of Vicia, effects of 5-aminouracil, colchicine, and indole acetic acid on, 21:20420(R) (COO-1625-7)
mitotic cycle in meristem of, use of tritium-labeled-thymidine for determination of duration of phases of, 21:6724
morphology in radioinduced mutants of Triticum durum, 24:48519
mutation induction in Vicia, by treatment with tritium-labeled ethyl methanesulfonate and myleran, 21:24381
organic compound metabolism in, of alfalfa, carbon-14 tracer study of, 24:36680
permeability of membranes of cells of corn, to tritium-labeled water, 22:25729
phosphorus-32 content in exudates of, autohistoradiographic analysis of, 21:41345
phosphorus-32 metabolism by maize, autoradiographic study for determining, 21:12800
phosphorus-32 uptake across, of Phaseolus vulgaris plants, improved technique for estimating, 21:9009
phosphorus-32 uptake by DNA and RNA in, of Vicia seedlings, effects of 8-ethoxycaffeine on, 23:35610
phosphorus-32 uptake by, of Coleus and Tradescantia, 22:40952 (ORO-657, pp 93-120)
phosphorus-32 uptake by, of Paspalum commersonii, 23:6391
phosphorus-32-labeled phosphate distribution in barley, effects of microorganisms on, 22:21414
polonium-210 distribution in, of kidney bean plants, effects of citrate ions, 2,4-D, and salts on, 22:6728
potassium accumulation in, of barley and bush beans, potassium-42 tracer study of, 23:41192
potassium uptake by barley, tracer study on, 21:20061
potassium-42 accumulation in, of corn, effects of age, potassium deficiency, and temperature on, 25:10930 (CEA-CONF-1517)
potassium-42 transport in, of corn, effects of age, potassium deficiency, and temperature on, 25:10930 (CEA-CONF-1517)
protein uptake by plant, 21:20426(R) (UCB-34-P-50-4)
radiation dose to, following exposure to fast neutrons, effects of soil activation products on, 22:31080
radiation effects on barley, model for fractionated x, 21:20429
radiation effects on carbon-14 metabolism in, of cotton, effects of seed exposure on cobalt-60 γ, 22:23468
radiation effects on carbon-14 uptake by amino acid fraction in barley, x, 21:39531
radiation effects on catalase and cytochrome oxidase activities in, of beans and clover, effects of seed exposure on γ, 22:33773
radiation effects on cell cycle and DNA synthesis in excised, of pea plants, effects of carbohydrate supply on x, 22:28390
radiation effects on cells in, of Vicia faba, combined effects of colchicine on x, 23:29894 (COO-1625-26)
radiation effects on cells of pea, after seed exposure, fast neutron and γ, 21:30931
radiation effects on cellular metabolism and chromosomes of barley, effects of seed exposure to monazite sand on α, β, and γ, 22:8504
radiation effects on chromosomes in Allium, effects of irradiation depth on electron-induced, 21:1841
radiation effects on content of 4-aminobutyric acid and glutamic acid in potato tubers, γ, 24:25074
radiation effects on development of, in radishes grown from γ exposed seeds, 21:9013
radiation effects on development of, on cuttings of quaking aspen, effects of age on cobalt-60 γ, 23:22436
radiation effects on enzyme activity and polyphenol content of slices of sweet potato, combined effects of cutting on cobalt-60 γ, 23:35656
radiation effects on flux of calcium, potassium, and water in excised, of onion, micropotometric determination of x, 22:28705
radiation effects on formation of bacterial nodules on, of pea plants, cobalt-60 γ, 24:51095
radiation effects on formation of, in tomato plants, effects of boron-10 content on thermal neutron, 22:8651
radiation effects on fungi populations of, in tropical rain forests, γ, 25:21948 (TID-24270, pp F.35-9)
radiation effects on geotropic response and statolith sedimentation in barley, 14 MeV fast neutron and x, 24:19373
radiation effects on growth and morphology of short, of Scots pine seedlings, chronic cobalt-60 γ, 24:44624
radiation effects on growth of alfalfa, effects of auxin on x, 22:4704
radiation effects on growth of barley, cobalt-60 γ and fast neutron, 24:17166
radiation effects on growth of barley, RBE of electron, γ, neutron, and x, 23:20436
radiation effects on growth of cells of, in corn seedlings, x, 23:2981
radiation effects on growth of corn seedling, γ, 23:2983
radiation effects on growth of lateral, in corn, tritium β, 22:23674(R) (NYO-3561-4)
radiation effects on growth of pea, combined effects of growth-inhibitor drugs on x, 22:31284
radiation effects on growth of pea, used in combination with thioglucose, γ, 21:26671
radiation effects on growth of poplar, effects of light on x, 22:4700(R) (TID-24146)
radiation effects on growth of Vicia faba, combined effects of magnetism on cobalt-60 γ or x, 23:6615
radiation effects on growth of Vicia faba, combined effects of temperature on oxygen enhancement ratio for negative pion, 24:14624
radiation effects on growth of Vicia faba, effects of magnetic field on x, 25:44963
radiation effects on growth of wheat, γ, 22:28285 (ORNL-4100, pp 135-40)
radiation effects on growth of Zea mays, in relation to bioelectric potential, x, 25:11308
radiation effects on growth of, in corn seedlings, effects of chemicals on x, 22:31283
radiation effects on growth of, in maize, combined effects of chloramphenicol on x, 22:31278
radiation effects on growth of, in rice plants, effects of seed exposure on cesium-137 γ, 22:28711
radiation effects on growth of, in seedlings of beans, corn, and peas, x, 24:2831
radiation effects on growth of, in sprouting barley, γ, 21:32817
radiation effects on growth of, of lettuce and peas, effects of dose on strontium-89 β, 24:36850
radiation effects on growth of, of pineapples, effects of 8,000 to 16,000 rad dose on γ, 25:4719
radiation effects on growth of, of Vicia seedlings, x, 23:6610
radiation effects on growth rate of cells in Vicia faba, RBE for tritium β and cobalt-60 and radium γ, 22:40874
radiation effects on growth, mitosis, and respiration in, of Vicia faba, role of radiotoxins in x, 23:16436
radiation effects on length of, in Yucca plants, effects of seed exposure on γ, 22:8649
radiation effects on length of, of rice, effects of seed exposure, strain, and temperature on diallele analysis of γ, 24:36734
radiation effects on meristem of, 21:9007 (ORNL-3999, 160-5)
radiation effects on meristem of rye, γ, 21:36752
radiation effects on mitosis and nuclei in cells of cotton plant, effects of dose and seed exposure on γ, 23:6616
radiation effects on mitosis in cells of potato, effects of ploidy on x, 24:48745
radiation effects on mitosis in cells of Vicia, effects of colchicine on, 21:20420(R) (COO-1625-7)
radiation effects on mitosis in cells of, γ, 21:22790
radiation effects on mitosis in cells of, γ and x, 21:20431
radiation effects on mitosis in cells of, of Vicia faba, comparison of proton and x, 22:40960
radiation effects on mitosis in Vicia, bremsstrahlung, 22:49642
radiation effects on nitrogen, phosphorus, and saccharides in potato tubers, γ, 24:25074
radiation effects on nodule formation on, of peas, chronic γ, 21:20435
radiation effects on regeneration and geotropism in, of barley, x, 24:34765
radiation effects on tree, effects of dose and dose rate on γ, 25:21925 (TID-24270, pp B.291-8)
radiation effects on zinc-65 uptake by, of red oak, fast neutron, 21:11134
radiation effects on, of barley, effects of temperature of culture media on recovery from, 21:13065
radiation effects on, of barley, effects of temperature of culture media on recovery from x, 21:13065
radiation effects on, of broad bean seedlings, comparison of γ and ultrasound, 24:917
radiation effects on, of cereal and vegetables, effects of seed exposure on γ, 23:2978 (CEA-R-3509)
radiation effects on, of pine and spruce growing in soils contaminated by strontium-90 and yttrium-90, β, 21:34817
radiation effects on, of slash pine seedlings, effects on growth following γ, 22:28710
radiation effects on, of Vicia faba, combined effects of hypoxia and indanetrione on x, 22:49635
radiation effects on, of wheat seedlings, cytochemical and structural x, 23:10115
radiation protection of growth of Vicia, by compressed gases, 21:10928
radioinduced aberrations of chromosomes in, of beans, effects of oxygen on x, 22:25810
radioinduced aberrations of chromosomes in, of Crepis capillaris, RBE of fast neutron, proton, and x, 22:21488
radioinduced aberrations of chromosomes in, of Crepis capillaris, 22:21487
radioinduced aberrations of chromosomes in, of peas, effects of humidity on frequency of, 22:25806
radioinduced aberrations of chromosomes in, of Vica faba, combined effects of inhibitors of DNA synthesis on x, 22:47505
radioinduced adventitious, in lettuce plants, γ, 23:16437
radioinduced chromosomal aberrations in barley, effects of space flight on γ, 21:45843
radioinduced chromosome aberrations in cells of Vicia faba, effects of sulfaguanidine on γ, 22:51543
radioinduced chromosome aberrations in cells of, of Vicia faba effects of mitotic stage on neutron, 24:17022
radioinduced chromosome aberrations in cells of, of peas, γ, 22:25807
radioinduced chromosome aberrations in cells of, of wheat, effects of endosperm exposure on x, 22:14983
radioinduced chromosome aberrations in Vicia faba, β, γ, and x, 23:50450
radioinduced chromosome aberrations in, of wheat seedlings, x, 21:14766
radioinduced chromosome damage in Vicia faba, fractionated-dose x, 21:22391
radioinduced chromosome damage in Vicia faba, repair of x, 21:22390
radioinduced delay of mitosis in pea, effects of protein synthesis on γ, 25:27063
radioinduced growth stimulation in Vicia faba, effects of auxin and dose rate on γ, 25:27066
radioinduced inhibition of growth of, from dormant cuttings of black currants, fast neutron and γ, 21:26669
radioinduced mutations for morphological changes in potato, 1000 to 120,000-R x, 25:26737
radioisotope availability to, in soil, 21:43323
radioisotope content of, from forest trees in Russia in comparison to litter, cerium-144, cesium-137, niobium-95, ruthenium-106, strontium-90, and zirconium-95, 24:25421 (A-AC-82/G/L-1302)
radioisotope metabolism in plant, method for radiochromatogram scanning in study of, 23:22221
radioisotope sorption by excised, of barley and soybean, effects of culture filtrates of Aspergillus and Penicillium on cerium-144 and strontium-90, 23:41215
radioisotope sorption by, of water-cultured rice plants, effects of low temperature on, 22:40551
radioisotope transport in, of Adenostoma, Ceanothus, and Quercus, cesium-137, ruthenium-106, and strontium-85, 25:10955
radioisotope transport in, of plants, calcium-45 and strontium-90, 23:20077 (AD-673381)
radioisotope uptake by rice, effects of metabolism and zone of root on, 23:47923(T) (NSJ-tr-153)
radioisotope uptake by, of vegetables, 21:12746 (CONF-651008-, pp 94-125)
radioisotope uptake from soils by, of plants, 22:43233
radium uptake by, of plants, 21:43415
radium-266 content of, of aquatic plants, 22:47498
response to gravity, effects of starch depletion on, 22:12205(T) (ANL-Trans-545)
rubidium-86 uptake and distribution in, of barley, 22:23471
rubidium-86 uptake by rice and sorghum, effects of inhibitors and low temperature on exchange with potassium following, 23:41222
rubidium-86 uptake by segments of, of corn, effects of potassium chloride on, 22:33775
rubidium-86 uptake by, of St. Augustine grass, effects of moisture on, 21:22304
ruthenium-106 uptake by excised, effects of complex formation with humic acid on, 21:20086
sodium uptake by barley, tracer study on, 21:20061
sorption and translocation of strontium-89 in cabbage, effects of calcium ions on, 21:16270
sorptive properties for biologically-important ions, effects of uranyl ions on, 22:8494

- sorptive properties of lettuce, soybeans, tomatoes, and wheat for calcium and strontium from soil, 22:23396(R) (COO-1495-6)
- strontium metabolism by, of wheat, following nitrogen depletion, effects of ammonium and nitrate availability on, 22:25718(R) (ORO-2410-9)
- strontium transport by barley, effects of genotype and metabolic factors on, 21:6432
- strontium uptake by lettuce, soybean, tomato, and wheat, 21:20024(R) (COO-1495-2)
- strontium uptake by, of wheat seedlings, effects of ammonium and nitrate availability on, 22:25719(R) (ORO-2410-10)
- strontium-85 transport rate in, of Zea mays, compared to calcium transport rate, 21:34598
- strontium-89 distribution in, of kidney beam plants, effects of citrate ions, 2,4-D, and salts on, 22:6728
- strontium-89 uptake by rice plant, 21:28355
- strontium-89 uptake by, of beans, 21:14579
- strontium-90 content of vegetable, in Czechoslovakia, 21:1726
- strontium-90 uptake by excised, effects of complex formation with humic acid on, 21:20086
- strontium-90 uptake by, of agricultural plants, calculations and evaluation of, (T), 23:29492
- strontium-90 uptake by, of fruit trees, 21:36603
- structure of, effects on radioisotope accumulation, 24:7788
- sulfur-35 uptake by proteins in, of corn, periodicity of, 23:50286
- sulfur-35 uptake by, of Phaseolus vulgaris, microautoradiography of, 21:41369
- sulfur-35 uptake by, of St. Augustine grass, effects of moisture on, 21:22304
- uptake of tritium-labeled thymidine by meristem of, of Vicia faba, spectrometric determination of, 23:17927
- use of carbon-14 labeled carbon dioxide to distinguish living from dead, 21:12778
- water diffusion in corn, tritium tracer study of, 22:40597
- water movements in, oxygen-18 and tritium tracer studies of, 25:51960 (A/CONF.49/P-626)
- weight of, of sugar beets grown from γ-irradiated seed, 21:3450
- zinc-65 accumulation in broomsedge, 23:17983 (CONF-670503-, pp 665-71)

ROSE BENGAL

- analysis of iodine-131-labeled, for impurities, 23:11427
- analysis of iodine-131-labeled, for radiochemical impurities by thin-layer chromatography, 21:30373
- book: Application of Radioiodinated Rose Bengal and Colloidal Radiogold in the Detection of Hepatobiliary Disease, 24:25520
- distribution in human tissue, 22:537
- effectiveness of iodine-125-labeled and iodine-131-labeled, for diagnosis of human jaundice, 23:38697
- effectiveness of iodine-131-labeled, for liver scanning in man, use of mathematical analysis for evaluating, 25:544
- effects on mutation and survival of Escherichia coli, photodynamic, 23:33914
- effects on uv- and x-radiosensitivity of mutagenesis in Euglena gracilis, 22:25823
- iodine-131 distribution in, 23:11427
- labeling with iodine-131, method for, 22:23399 (IA-1128, pp 213-19)
- metabolism of iodine-131-labeled, during abdominal scanning, effects of bile duct obstruction on, 22:51807
- preparation of iodine-125- or iodine-131-labeled, 22:40099
- radioinduced labeling with iodine-131, uv, 21:32216
- radiolysis of iodine-131-labeled, self-, 25:6386
- sensitivity of iodine-131-labeled, for liver function appraisal in comparison to sulfobromophthalein sodium, 25:8722
- sodium salt, iodine-131-labeled, metabolism by mice and rats, 23:22170(T) (AEC-tr-6944, pp 165-77)
- sodium salt, use of iodine-131-labeled, for scintigraphy of lungs following inhalation, method for, 23:50724
- stability of iodine-131-labeled, effects of light and temperature on, 25:6388
- use of iodine-131-incorporated, for scanning of liver in human children and infants, 22:31164
- use of iodine-131-labeled, for diagnosis of human cirrhosis, model for, 23:24686
- use of iodine-131-labeled, for diagnosis of human liver disorders, 23:867
- use of iodine-131-labeled, for diagnosis of jaundice, evaluation of, 23:33754
- use of iodine-131-labeled, for diagnostic scanning, 23:50723
- use of iodine-131-labeled, for function studies in preserved dog liver, 24:25518
- use of iodine-131-labeled, for liver function appraisal in comparison to other biochemical tests, 25:11111
- use of iodine-131-labeled, for liver scanning, 23:26851
- use of iodine-131-labeled, for liver scanning, 22:51808
- use of iodine-131-labeled, for liver scanning in children, 22:6857
- use of iodine-131-labeled, for liver scanning in man, 23:29625
- use of iodine-131-labeled, for liver scanning in man, 23:31855
- use of iodine-131-labeled, for liver scanning, review of, 22:6858
- use of iodine-131-labeled, for radiodiagnosis of liver neoplasms, comparison of, with gold-198, 21:20245
- use of iodine-131-labeled, for scanning liver, 23:50732
- use of iodine-131-labeled, for scanning liver, 23:50697
- use of iodine-131-labeled, for scanning liver in man, 22:51793
- use of iodine-131-labeled, for scintiscanning of liver of man in comparison to molybdenum-99-labeled sodium molybdate, 21:45739
- use of iodine-131-labeled, in diagnosis of human liver disease, evaluation of, 23:18051 (CONF-670958-, pp 179-207)
- use of iodine-131-labeled, in human liver scans, interpretation problems in, 23:9994
- use of iodine-131-labeled, in studies on liver function in x-irradiated rats, 21:4862
- use of iodine-198-labeled, for scanning liver, 23:50711
- use of radioisotope-labeled, for scintiscanning of human pancreas, use of subtraction method for evaluating, 23:48153

Rose Burst

- see Hardtack Operation-Phase I

ROSIN

- effects on strontium-90 accumulation by plants from soil, combined effects of aniline—2-furaldehyde and, 25:39809

ROSPO (Italian zero-power reactor assembly)

- see Critical Assemblies

Rossendorf Annular Core Reactor (RRR)

- see Reactors, Research

Rotary Pumps

- see Vacuum Pumps

Rotary Seals

- see Seals and Glands

ROTENONE

- effects on mitosis in hamster cells and HeLa cells, inhibitory, 23:2157 (LA-DC-9384)
- synthesis of radioactive, in Ecuador, 25:27134 (CONF-680112-, pp 245-6)

ROTIFERA

- Bdelloides sp., radiation effects on survival of, effects of dose on γ, 22:31205 (TID-23280)
- biomass of aquatic, phosphorus-32 for measuring, 24:545
- periphyton, phosphorus-32 uptake by, in Columbia River, effects of radioisotope content of river on, 22:21591
- periphyton, zinc-65 uptake by, in Columbia River, effects of radioisotope content of river on, 22:21591

ROTORS

- see also Stators
- abrasion of vacuum pump, radioisotope method for measurement of, 23:31491
- angular velocity of biological centrifuge, use of computer to calculate square of, 21:24153
- bearings for steam turbine, design modifications for steam lubricated, 24:7548(R) (NYO-3839-7)
- bearings for steam turbine, modifications for steam-lubricated, 24:25193
- deformation of shaft-type, effects of curvature on, 24:36477
- design and development of alternator, for potassium Rankine nuclear space power system, 22:37903 (CONF-680802-3)
- design and performance of alternator, for space power systems, 22:25575 (SAN-679-7)
- design and performance of graphite, in central-station power cycles, 21:32295 (UCRL-70258(Rev.1))
- design and performance of, supported by steam-lubricated bearings, 23:2463 (NYO-3839-4)
- design for multi-bearing test rig, engineering drawings for, 23:31455
- design for steam-lubricated rotor-bearing system, engineering drawings for, 24:25193
- design for use in Martz collecting centrifuge, 22:28272 (ANL-7278, pp 185-218)
- design for use in ultrahigh vacuum systems, 21:39172
- design for use in zonal centrifuges, 22:7984
- design of KII zonal centrifuge, engineering drawings for, 22:14650
- design of magnetically suspended ultracentrifuge, 21:39083(T) (K-Trans-24)
- design of, for ultracentrifugation of cells, tissues, and viruses, 21:8673(R) (ORNL-3978)
- development for centrifuges for rate zonal separation, 23:22189(R) (ORNL-4273(Summ.))
- development for organic Rankine-cycle power units, status of, 21:41108
- evaluation of titanium, for centrifuges, 22:12748(R) (ORNL-4171)
- evaluation of turbopump, for Phoebus reactor liquid hydrogen feed system, 21:43086 (CONF-671009-1)
- magnetic materials for high-speed, development of, 21:39624 (UCID-15193)
- magnetic materials for use in solid, of electric generators at high temperature, 21:34889(R) (NASA-CR-54359)
- magnetic unbalance force on alternator, effects of eccentricity and misalignment on, 22:37902 (CONF-680802-2)
- materials for SNAP-50/SPUR generator, properties of, 21:36781 (BNL-50054)
- materials for SNAP-8 turbine, evaluation of, 21:20472(R) (NASA-CR-72146)
- mockup test rig for Fort St. Vrain Reactor, 21:38449(R) (GA-6950)
- speed of shaft-type, effects of bearing conditions on critical, 24:36478
- stability of gas-bearing turboalternator, effects of electromagnetic forces on, 21:41070
- testing helical-screw graphite, to 2750°F, 21:30601
- testing of turbine, ultrasonic, 21:26128(T) (ORNL-tr-1369)
- thermal stresses in cesium and potassium turbine, effects of stage temperature drop on, 23:24349 (ORNL-TM-2125)
- use of superconductors in rotating electric machines, 25:19635
- velocity of multisection high-speed, calculation of critical, 23:7657 (BMwF-FBK-68-28)
- wear in carbon and metal, radioactive tracer methods for measuring, 25:15847
- weight of, effect on performance of spiral-grooved gas journal bearing of, 21:40730 (MIT-66-TR-51)

ROVER REACTORS

- see also Rocket Reactors (Kiwi)
- see also Rocket Reactors (NERVA)
- see also Rocket Reactors (Phoebus)
- air cleaning system for, testing of high-efficiency particulate air filters in, 23:29113
- control and safety systems for, instrumentation for, 22:2448 (CONF-671102-30)
- control system for low power testing of Pewee, use of digital and linear integrated circuits in, 23:4389 (LA-DC-9620)
- coolant exhaust from, design of low temperature charcoal adsorption beds for fission products in, 25:6142
- destruct test of scale model, use of chemical explosive in, 21:14361 (SC-RR-66-589)
- destruction of, debris distribution from, 21:14361 (SC-RR-66-589)
- development of, description of, 23:11311
- development of, review of, 23:19541
- development of, review of, 24:50203
- development programs for, 24:50203
- fission product distribution in, techniques for measurement of, 22:25065 (LA-DC-9412)
- fission product release to atmosphere from, evaluation of safety hazards from, 22:18968 (LA-DC-9094)
- fuel elements for, critical measurements for simulated, 22:33058
- fuel elements for, eddy current inspection for coating cracks in, 25:21257 (LA-4590)
- fuel elements for, masked probe for eddy current inspection for coating cracks in, 25:57699
- fuel elements for, power density and thermal stress limitations for graphite matrix uranium carbide (UC_2) bead type, 23:31209 (LA-DC-10116)
- fuel elements of, destructive inspection procedures for radiation effects on, 24:7245
- fuel elements of, logarithmic calculations of lineal densities of, 25:41575 (LA-4673)
- fuel for, fluidized-bed burner for reprocessing of, 25:8322 (IN-1423)
- fuel reprocessing for, pilot plant for headend, 22:33486 (IN-1181)
- fuels for, burn-leach process for reprocessing of, 25:57519 (IN-1484)
- instruments for, design of, 22:4510
- kinetics equation derivation for clustered array of, 23:15691 (LA-DC-10338)
- materials for, development and testing of, 23:8170 (ORNL-4370, pp 235-7)
- nozzles for Pewee, brazing procedures for cooling tubes of, 24:24891 (LA-4324)
- operation of, radiation monitoring of environs following, 25:46826(R) (SWRHL-83-r)
- radiation monitoring of iodine-131 content of milk in environs of, 22:17001 (CONF-680108-1)
- radioactive effluents from, analysis of normal operation and accident condition ground tests, 25:31642
- testing of Pewee 1, off-site radiological monitoring during, 25:60196 (SWRHL-87-r)
- testing of, contamination distribution from, 21:28099 (LA-DC-8524)
- turbopump vibrations in, testing at 530 to 114°R for 2000 g, 22:42341 (LA-DC-9331)

ROVI Reactor

- see Reactors, Process Heat

Rowboat Project

- see Plowshare Project

Rowe Reactor

- see Yankee Power Reactor

ROYAL JELLY

- radioprotective effects on mice, x, 25:52108

RPTF

- see Reactors, Research

RRR (Rossendorf)

- see Reactors, Research

RS-1 (Avagadro)

- see Reactors, Research

RSIC (Radiation Shielding Information Center)

- see Information Centers

RTM Reactor

- see Reactors, Research

RTS-1 (Galileo)

- see Reactors, Research

RUBBER

- see also Butyl Rubber
- see also Neoprene
- see also Plastics
- see also Silicone Rubbers
- analysis for zinc by bremsstrahlung activation methods, 23:35049
- analysis of Fluorel for chlorine, 21:23808 (UCID-15100)
- analysis of Viton A for chlorine, 21:23808 (UCID-15100)
- analysis of vulcanizates of, for carbon-14, sulfur-35, and tritium by liquid scintillation counting, in-vial degradation method for, 25:44339
- analysis of vulcanized, for copper, nickel, and zinc by 16-MeV bremsstrahlung activation and γ spectrometry, 24:38771 (PRNC-135, pp 167-82)
- analysis of vulcanized, for copper, nickel, and zinc by bremsstrahlung activation, 22:12260
- analysis of, for nitrogen, activation, 21:12309
- analysis of, review on methods for, 25:31785
- butyl, radioinduced graft polymerization with vinyl acetate, mechanical properties of products from γ, 23:49853
- butyl, radioinduced thermoluminescence of, at -196°C, 21:24029
- corrosion of, mechanisms and prevention of, 23:50994
- decontamination in protective clothing, 21:43434
- decontamination of surfaces of, from iodine, properties of agents for, 24:2102 (IN-1316, pp 90-127)
- decontamination of, use of radiation for microbial, 21:16072(R) (NYO-3736-2)
- effects of polysulfide, on electric breakdown strength of epoxy resins, 21:27868 (SC-TM-67-50)
- effects of radiation-reclaimed butyl, on properties of diaphragm rubbers, 24:9377
- elastic properties of, effects of chemical crosslinking on, 22:25396
- equation of state for Adiprene foam, (E), 21:38823 (LA-3400)
- exoelectron emission from, oxygen and x-ray effects on, (E), 21:7354

- fabrication into bags for powder isostatic pressing, procedures for, 21:18360 (Y-1574)
- heat transfer from isomerized hydrocarbon surfaces of, improved liquid wetting angle effects on, 22:10495(P)
- hydrochloride, radiation effects on molecular structure of, ir spectral studies on mechanism of γ, 24:22671(R) (ORO-2418-7)
- iodine penetration of protective coatings of chlorinated, 22:2713 (IN-1095)
- nitrogen content of, correlation of, with physical properties, 21:12309
- performance in chlorinated paints for surfaces exposed to radioactive materials, 23:8366
- performance in vacuum systems, effects of radiation and temperature on, 21:38098
- permeability to tritium and water-t_2, 24:41242(R) (CEA-N-1246)
- permeability to tritium-labeled water, radiation protection aspects of, 23:847
- permeation of films of, by iodine and iodomethane, 25:46540 (IN-1407, pp 185-253)
- production by gamma-induced polymerization of acrylonitrile and NR and SBR latex, effects of emulsifying procedures on, 22:14521
- production of low pressure-long time pulses with Adiprene foam, (E), 21:38823 (LA-3400)
- production of, use of gamma radiometric density gages in, 23:45568
- properties and uses of, 25:24581
- properties for seals in hot cells, evaluation of, 21:34312 (ORNL-TM-1838)
- properties of latex as decontaminating agent, 21:39397 (KAPL-P-3366)
- properties of, tabulations of electrical, mechanical, and physical, 22:4731
- radiation effects on, 22:4213
- radiation effects on, 21:34312 (ORNL-TM-1838)
- radiation effects on BR and SBR vulcanizates, antiradiation efficiency of organic rubber chemicals on γ, 22:8139
- radiation effects on chain scission and crosslinking in vulcanized natural, stress relaxation studies on electron, 23:37995
- radiation effects on chemical and physical properties of gaskets of natural, electron and proton, 24:16585
- radiation effects on curing of, role of various vulcanizing agents in γ, 22:6326
- radiation effects on deterioration of natural and butyl, 22:45113
- radiation effects on diffusion of polyisoprene in, x, 24:38920
- radiation effects on elastic properties of vulcanized, standard methods for testing of high-energy, 25:40142
- radiation effects on IIR vulcanizates, γ, 22:8138
- radiation effects on mechanical properties of, reinforced by carbon black, 21:9259
- radiation effects on reclamation of butyl, in diaphragm rubbers, 24:9377
- radiation effects on solutions of halomethanes in natural latex, EPR studies of γ, 25:34614
- radiation effects on structural transformations in, effects of sulfur on γ, 22:47160
- radiation effects on structure of, at low temperature, spectral studies on primary and secondary processes in electron, 22:21098
- radiation effects on sulfur-vulcanized, antiradiation efficiency of some organic chemicals in, 22:6325
- radiation effects on vulcanization of, 24:13941
- radiation effects on, effects of organic halogen compounds on, 24:27100(T) (AD-701946)
- radiation effects on, in accelerators, 24:27102 (CERN-70-5)
- radiation effects on, protective effects of chemicals on, 22:6322
- radioinduced crosslinking of, 24:22713
- radioinduced crosslinking of, at room temperature and -180°C, γ, 21:24024
- radioinduced crosslinking of, effects of halogenated alkanes on, 22:33457
- radioinduced crosslinking of, elastic properties of polymers from, 22:25396
- radioinduced curing of latex, review on research on electron and, 25:44383
- radioinduced foaming of mixtures of natural or synthetic, with ethylene polymers and a foaming agent, 22:47188(P)
- radioinduced grafting of vinyl monomers on, 23:9452(P)
- radioinduced grafting of vinyl monomers on articles of, 23:13768(P)
- radioinduced modification of properties of, γ, 22:4214
- radioinduced oxidation of, at room temperature, kinetics of γ, 22:33417
- radioinduced oxidation of, effects of N-phenyl-2-naphthylamine and sulfur on γ-, 23:9484
- radioinduced polymerization of acrylonitrile with, physical properties of vulcanizates from γ, 22:6321
- radioinduced polymerization of acrylonitrile, methyl methacrylate, or styrene on, effects of oxygen on γ, 24:9392
- radioinduced polymerization of solid, mechanism of γ, 24:27126
- radioinduced polymerization of, with acrylonitrile and NR and SBR latex, effects of emulsifying procedures on properties of rubber produced by γ, 22:14521
- radioinduced vulcanization of natural latex, industrial, 22:40290 (CEA-R-3345)
- radioinduced vulcanization of tire, using spent fuel elements, 22:2283
- radioinduced vulcanization of, design of continuous irradiation facility for 2 to 10 MeV electron, 25:44497(P)
- radioinduced vulcanization of, electron or γ, 25:34632
- radioinduced vulcanization of, fast-electron, 22:21101
- radioinduced vulcanization of, industrial uses of, 24:18984 (CONF-691036)
- radiolysis at -196°C, radical decay following, 21:21981
- radiolysis at 77°K, kinetics of stabilization of radicals produced by γ, 25:34640
- radiolysis of ethylene—propylene, effects of sulfur on electron or γ, 24:13904
- radiolysis of halogenated, at low temperatures, photosensitivity of paramagnetic species from, 22:23062
- radiolysis of natural, EPR spectral studies on temperature effects on γ, 23:233
- radiolysis of nitrile, protective effects of phenyl-2-naphthylamine on γ, 23:40697
- radiolysis of synthetic, 24:22713
- radiolysis of, effects of sulfur on ESR spectra of radicals from γ, 21:38967
- radiolysis of, ESR and radiothermoluminescence study of decay of species from γ, 23:26283
- radiolysis of, oxidation and unsaturation in γ, 22:47160
- radiothermoluminescence of, 23:40689
- radiovulcanization of, design of electron irradiation cell for, 24:15734
- reactions of sponge, with fluorine, 25:57619 (RFP-1739)
- shielding properties for x-ray diffraction apparatus, 25:13457
- solvent properties of tubing of, for propyne, 24:4350 (CU-755-6, Sect.7-D)
- thickness measurement for manufacture of tires, beta backscatter gage for, 25:18824
- use as shielding during strontium-90 therapy of skin diseases, 21:20311
- wear measurements in tire, use of radioactive tracer techniques for, 22:10518
- wear of tires of, use of thallium-204 beta source to measure, 22:45251
- wear of, use of γ-x-ray fluorescence to measure, 22:4353 (EUR-3627)
- polyethylene—rubber, radioinduced preparation of foamed sheets of, 25:29109(P)

Rubeanic Acid
  - see Oxamide, Dithio-

RUBIDIUM
  - see also Alkali Metals
  - abundance in Allende meteorite, (E), 24:42310
  - abundance in Apollo 11 anorthosites, (E), 25:7125
  - abundance in Apollo 11 lunar rocks, (E), 24:21524
  - abundance in Apollo 11 lunar rocks, (E), 24:21523
  - abundance in Apollo 11 lunar rocks, (E), 24:21528
  - abundance in Apollo 11 lunar samples, (E), 24:21522
  - abundance in Apollo 14 soils 14163 and 14259, (E), 25:52596
  - abundance in average carbonatites, 23:13885
  - abundance in carbonaceous chondrites, (E), 24:17409
  - abundance in Earth's core, (T), 25:40338
  - abundance in L chondrites, neutron-activation determination of, 25:32871
  - abundance in Lost City meteorites, (E), 25:40146
  - abundance in lunar rock 12013, (E), 25:955
  - abundance in lunar rock 12013, (E), 25:954
  - abundance in lunar rock 12013, 10, (E), 25:959
  - abundance in solar photosphere, (E), 22:43832
  - abundance in sunspots, (E), 23:22835
  - analysis for potassium by neutron activation methods, 21:35886
  - analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
  - analysis of, errors in spectral methods for isotopic, 24:5591
  - analysis of, for alkali metal impurities, 21:12(R) (UCID-15014)
  - analysis of, ion source for isotopic, 23:6074
  - analysis of, spectral isotopic, 25:28952
  - argon-ion reactions at 10 to 1500 eV with, total cross sections for charge exchange in, (E), 23:27380
  - atomic weight of, based on carbon-12 = 12, 22:42698
  - atomic weight of, revised, 24:41269
  - binding energies for liquid, 25:39470(R) (ANL-7750)
  - bond energy and interatomic distance in, calculations of, 24:23493
  - book: Alkali Metal Handling and Systems Operating Techniques, 22:15206
  - book: Uncommon Metals, 22:10981
  - bremsstrahlung reactions (γ,n) at 20 MeV, yields of radioactivities from, 21:22008
  - chromatographic behavior in hydrochloric acid—1-propanol, 22:16673
  - chromatographic behavior in hydrochloric acid—2-methyl-2-propanol, 22:16674
  - chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
  - chromatographic behavior on cerium phosphate paper, 22:153
  - circulation and distribution in natural waters around Casaccia, Italy, 22:16811
  - compatibility testing with niobium—1 percent zirconium alloy, 21:13097 (ORNL-3970, pp 61-80)
  - compounds with hydroxytetraoxalatouranate, preparation and properties of, 24:20756
  - compounds with uranyl bromides and/or chlorides, infrared spectra of, 22:2042
  - compounds, analysis for cesium by radioisotope distribution method, extraction chromatography in, 22:40031
  - compressibility of liquid, effects of temperature on isothermal, 23:10212
  - compressibility of, calculations of, 24:23493
  - condensation in meteorites, (T), 22:5023
  - content and depth in crustal basalts and granites in USSR, 25:13115
  - content and distribution in earth, method for determination of, 22:23146
  - content in australites, isotopic dilution method for determining, 21:32132
  - content in biological samples, use of lithium-drifted germanium γ spectrometers for determination of, 21:36585
  - content in Central American igneous rocks, 21:39035 (COO-689-76, App.A-V)
  - content in French rocks, use in age estimation, 22:48928
  - content in igneous rocks from western Pacific islands, 21:39035 (COO-689-76, App.A-V)
  - content in North American geologic materials, use in age estimation, 23:451
  - content in Northeast Pacific Ocean, June 1967, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  - content in rock samples, mass spectrometric and x-ray fluorescence studies of, 23:45396(R) (COO-689-120)
  - content in rocks of Central Alps, use in age estimation, 22:6476
  - content in ultramafic rocks and minerals of western North Carolina, 23:26355
  - content in USGS standard muscovite, 21:30536
  - content in volcanic rocks of Kamchatka Peninsula and Kuril Islands, 25:6429
  - content in West Indies rocks and sediments, 21:39035 (COO-689-76, App.A-V)
  - content of aquatic plants, 22:19301
  - content of diet, effects of, on cesium-134 retention in rats, 22:28341
  - content of dissolved, in streams and transport to oceans, 21:41047(R) (YALE-2912-13)
  - content of erythrocytes, plasma, and urine of diseased, normal, or pregnant man, 22:51297 (COO-119-238)
  - content of fish and fish livers in Lake Erie, Lake Michigan, and Lake Superior, 25:21644
  - content of marine organisms and sediments, minerals, rocks, seawater, seston, and soils in Puerto Rico, 22:43311(R) (PRNC-85)
  - content of plant tissues, determination of, by gamma spectrometry and neutron activation analysis, 23:6357
  - content of rats, determination of, by atomic absorption spectroscopy, 21:41312 (COO-1485-14)
  - content of, in diet of teen-aged individuals in U. S, 21:8797 (ORNL-4007, pp 211-41)
  - corrosive effects of liquid, on niobium-base alloy, 21:14793
  - corrosive effects of liquid, on refractory metals at high temperatures, 21:4898 (BNL-10723)
  - corrosive effects of vapors of, on molybdenum trioxide and tungsten trioxide, at 500°C and low pressures, 21:43628
  - corrosive effects on niobium-base—zirconium alloys at 1200°C, 24:4719
  - cosmochemistry of, in solar system, (T), 23:41846
  - critical points for liquid, tabulation of data on, 23:49572 (ANL-7410, pp 229-337)
  - critical temperatures and vapor density of, 22:19521 (UCID-15269)
  - crystal stacking fault energies at 170°K, 22:38570
  - crystal structure of, calculation of amplitude of thermal vibrations at melting point for determination of, 24:1044
  - Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
  - decay in insects, FORTRAN 7090 computer program for determination of, 21:39350
  - defect configuration and migration in, calculations for point, 24:6640 (CEA-R-3849)
  - density of liquid and vapor, to critical point, method for estimation of, 22:51173
  - detection system for fuel can release of, description of, 22:10110(P)
  - determination as impurity in amorphous boron, spectrographic, 22:16429
  - determination as impurity in graphite by neutron activation and radiochemical separation, 24:13789
  - determination as impurity in thorium and thorium dioxide, spectrographic, 22:1994
  - determination as impurity in tungsten filaments by neutron activation followed by ion exchange and γ spectrometry, 23:9322
  - determination as impurity in uranium oxide (U_3O_8), spectrochemical method for, 22:50937
  - determination as tetraphenyl borate by ir spectrophotometry, 25:31814
  - determination as trace impurity in glass fragments, activation and mass spectrometric methods for, 22:33205 (AWRE-O-3/68)
  - determination as trace impurity in silicon oxide by activation, ion-exchange chromatography, and gamma spectrometry, 22:12227(T) (AD-662383)
  - determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
  - determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
  - determination by atomic absorption flame photometry, 23:7467
  - determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
  - determination by bremsstrahlung activation, 25:29018
  - determination by isotope dilution method, mass spectrometric, 22:30463
  - determination by neutron activation and scintillation counting of short-lived isotopes, 25:48(T) (CSIRO-Trans-10089)
  - determination by neutron activation methods, 24:2158
  - determination by neutron activation methods using 2.8-MeV neutrons, 21:23842
  - determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
  - determination by neutron activation, sensitivity of, 23:35037
  - determination by photoactivation using strontium as internal standard, 24:16474
  - determination by photon activation and γ spectrometry using strontium as internal-reference element, 25:6284
  - determination by photon activation using cesium or strontium as internal standards, 25:41766
  - determination by photon activation, sensitivity for, 23:15826
  - determination by photoneutron counting, activation, 22:24788 (IA-1128, pp 55-77)
  - determination by potentiometric titration with sodium tetraphenylboron using Orion liquid ion exchange lead-selective electrode, 25:2104

determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
determination in airborne dust samples by neutron activation, 25:31854
determination in airborne dusts by neutron activation, 24:38785
determination in aluminum by neutron activation using standard addition and solvent extraction, 21:45044
determination in aquatic plants by neutron activation, 23:24111(T) (AEC-tr-7041)
determination in biological materials and organic compounds by neutron activation and radiochemical separation, 25:15531
determination in biological materials by atomic absorption spectrophotometry, 23:9310
determination in biological materials by neutron activation and ion exchange, 24:2153
determination in biological materials by neutron activation techniques, 22:44972 (BNWL-SA-2010)
determination in biological materials, automatic separation system for, 22:8020
determination in blood by neutron activation methods, 22:12259
determination in blood, food, organs, and tissues of Columbia River trout by neutron activation, 23:49748 (BNWL-1051(Pt.2), pp 142-6)
determination in bromine—rubidium—strontium system by nondispersive x-ray fluorescence method, 23:6058
determination in carbonates, oxides, phosphates, silicates, or sulfates by electron probe method, correction factors for, 24:48035
determination in chondrites and achondrites, (E), 23:22710
determination in clays and kaolins, x-ray fluorescence, 22:22968
determination in dried sea salt by neutron activation and γ spectrometry, 23:45229
determination in eclogite, garnet peridotite, and kimberlite from Roberts Victor mine, South Africa, 25:20910
determination in fecal samples from Apollo 7 and 9 astronauts by neutron activation and γ-spectrometry, 24:23051(R) (BNWL-1183-2)
determination in fission product mixtures by ion exchange and β counting, 25:54449
determination in fruits, seawater, and human tissues by atomic absorption spectrophotometry, 23:19626
determination in G-2 granite samples, isotopic-dilution technique for, 22:22957
determination in geologic materials by isotope dilution for use in age estimation, 22:30698
determination in geologic materials, x-ray-fluorescence method for, 22:48914(R) (COO-689-100)
determination in geologic samples, x-ray-fluorescent method for, 21:39030(R) (COO-689-76)
determination in geological samples by neutron activation and γ spectrometry, 23:37933
determination in glass fragments by thermal neutron activation and γ spectrometry, 24:11464 (AWRE-O-54/69)
determination in glassy separates of volcanic ash by neutron activation, 23:59
determination in graphite, molybdenum, and tungsten by neutron activation methods, 22:16387 (CEA-R-3267)
determination in GSP-1 sample of granodiorites by isotope dilution, 22:22956
determination in hair by neutron activation methods, 22:16405 (GA-8171, pp 221-36)
determination in high-purity plutonium by anion exchange separation and graphite-spark excitation, 21:25771 (LA-DC-8507)
determination in human blood and tumor tissues by bremsstrahlung and neutron activation without chemical separation, 23:4558
determination in human blood by 16-MeV bremsstrahlung activation and γ spectrometry, 24:38771 (PRNC-135, pp 167-82)
determination in human blood by neutron activation, chromatographic separation, and gamma spectrometry, 23:4543
determination in human liver by neutron activation and γ spectrometry, 25:2124 (IAEA-122, pp 15-26)
determination in human saliva by neutron activation methods, 22:14464
determination in human whole blood by neutron activation, 23:24135
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in lacustrine and marine deposits from Viskan Valley in Sweden, activation, 22:1944 (AE-296)
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in lung tissue from uranium miners by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination in lungs of man with asbestosis or silicosis by neutron activation and γ spectrometry, 24:114
determination in magnesium by neutron activation and isotopic ion exchange, 23:13674
determination in marine and lacustrine deposits in Sweden by neutron activation and radiochemical separation, 24:146
determination in Mazama volcanic glass by neutron activation and γ spectrometry, 24:48056
determination in meteorites by neutron activation and radiochemical separation, 24:139
determination in mica by x-ray spectrography, 23:13631
determination in mineral salts by activation methods, 22:4049
determination in minerals and rocks by isotope dilution and x-ray fluorescence, 25:46422
determination in minerals and rocks, use of suspensions in flame spectrophotometric, 23:19639
determination in minerals by spectroscopy, 24:41198
determination in neoplastic and normal tissues by neutron activation and radiochemical separation, 24:29233
determination in nuclear graphite by instrumental activation method, 24:38768 (IFA-NR-31)
determination in nuclear graphite by neutron activation, 23:11445 (CEA-CONF-1057)
determination in nutrient broth by neutron activation analysis, 22:51408
determination in obsidian artifacts by neutron activation, 24:2148 (COO-912-16)
determination in obsidian by neutron activation methods, 23:58
determination in ocean water at two Atlantic stations, atomic absorption method for, 22:27563
determination in pathological tissue by neutron activation and γ spectrometry, 24:114
determination in plant tissue by neutron activation and γ spectrometry, 24:123
determination in plutonium dioxide, cathode region method for direct spectrochemical, 24:38731
determination in polluted river water by neutron activation and γ spectrometry, 25:31852
determination in pottery clays by neutron activation methods, 22:4002 (UCRL-17937)
determination in powdered thermal water residues, mass spectrographic, 25:51369
determination in presence of antimony and bromide by atomic absorption spectrophotometry, 21:40772 (IS-1600, Paper 3)
determination in presence of cesium and potassium by atomic absorption spectrophotometry, 23:17326
determination in river water by neutron activation, 24:38786
determination in rocks and waters by atomic absorption and flame spectroscopy, 24:36141 (ARH-1609)
determination in rocks by neutron activation and γ spectroscopy, 25:34543 (NIM-1013)
determination in rocks by neutron activation and radiochemical separation, 23:47413
determination in rocks by neutron activation and semiconductor spectrometry after chemical separation, 23:6068
determination in rocks by x-ray fluorescence, 24:13774
determination in rocks by x-ray fluorescence spectrometry, 23:45191
determination in rocks by x-ray fluorescence, correction of matrix effects in, 25:10447
determination in salmon tissues by neutron activation methods, 22:37642 (BNWL-SA-1776)
determination in sediments of Rhine River basin by x-ray fluorescence, 25:54408
determination in serum and urine by flameless atomic absorption spectroscopy, 25:10464
determination in silicate materials by isotope dilution methods, separation scheme for, 23:2213
determination in silicate minerals, tobacco leaves, and water by ion exchange chromatography and atomic absorption spectrometry or gravimetry, 23:4737
determination in sodium by emission spectrography, 25:31764 (ANL/ST-6)
determination in sodium by neutron activation and ion exchange separation, 24:46174 (BNWL-1407)
determination in soil by atomic absorption spectrometry, 23:47408
determination in solutions by flame emission, 21:34215(R) (UCRL-50006-67-1)
determination in spark discharges, limits and sensitivity for spectroscopic, 21:40772 (IS-1600, Paper 3)
determination in spent fuel elements, 23:23910(R) (IN-1277)
determination in standard and ultramafic rocks by neutron activation and radiochemical separation, 23:37921
determination in standard plant material by neutron activation and γ spectrometry, 23:49745 (BNWL-1051(Pt.2), pp 131-4)
determination in stony meteorites, (E), 23:22711
determination in syenite rock by x-ray emission method, 23:6060
determination in synthetic textile fibers by thermal neutron activation and γ spectrometry or radiochemical separation, 23:17385
determination in thorium oxides and zirconium oxides, direct spectrochemical method for, 23:21638
determination in tissues of Pacific Ocean salmon by neutron activation and γ spectrometry, 23:49749 (BNWL-1051(Pt.2), pp 146-51)
determination in tungsten bronzes by activation methods, 21:35844 (IS-T-156)
determination in uranium oxides by spectroscopy, 24:13729 (NIM-450)
determination in vegetal materials by fast and thermal neutron activation, 23:9327
determination in volcanic ash by neutron activation and γ spectrometry, 25:54513
determination in water by neutron activation and group radiochemical separation, 24:48048 (BNWL-1307(Pt.2), pp 17-19)
determination of a visual complexometric, 22:33273
determination of neutron-activated, in biological samples, 21:4475
determination of trace amounts of, by neutron activation methods, substoichiometric separation in, 21:10276
determination of trace amounts of, evaluation of methods for, 23:47382
determination of trace amounts of, in alfalfa, spectrochemical, 25:41833(R) (IA-1218)
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in Columbia River water by neutron activation and radiochemical separation, 23:49747 (BNWL-1051(Pt.2), pp 137-41)
determination of trace amounts of, in dunite, peridotite, and pyroxene by isotope dilution and x-ray fluorescence spectrometry, 23:40559
determination of trace amounts of, in human lungs by neutron activation and γ spectrometry, 23:49742 (BNWL-1051(Pt.2), pp 6-9)
determination of trace amounts of, in hydrofluoric acid and spectrophotometry, 25:26176
determination of trace amounts of, in liver tissue in salmon by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in lunar dusts and rocks from Apollo 11 by neutron activation, 24:20737
determination of trace amounts of, in lunar rocks and soils from Apollo 11 by mass spectrometric isotope dilution, 24:20721
determination of trace amounts of, in lunar rocks and soil from Apollo 11 by mass spectrography and neutron activation, 24:20733
determination of trace amounts of, in lunar rocks from Apollo 11 by emission spectrography, 24:20707
determination of trace amounts of, in lunar rocks from Apollo 11 by neutron activation and spectral methods, 24:20735
determination of trace amounts of, in minerals and rocks by atomic absorption spectrophotometry, 25:10458
determination of trace amounts of, in molybdenum, review on, 25:10459
determination of trace amounts of, in muscle tissues by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in Pacific Ocean by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in phosphate rock, cathode-region method for spectrochemical, 24:2109
determination of trace amounts of, in pyroxene by isotope dilution and x-ray fluorescence spectrometry, 23:40559
determination of trace amounts of, in rocks and sand by thermal neutron activation, ion exchange, and γ spectrometry, 25:10492
determination of trace amounts of, in rocks by atomic absorption spectrophotometry, 23:28673(R) (UCRL-50006-69)
determination of trace amounts of, in rocks by neutron activation, 23:13670 (CEA-CONF-1162)
determination of trace amounts of, in salmon muscles by neutron activation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
determination of trace amounts of, in silicate rocks by epithermal neutron activation and γ spectrometry, 24:23
determination of trace amounts of, in soils by neutron activation and ion exchange separation, 23:13671 (CEA-CONF-1183)
determination of trace amounts of, in standard bauxite, carbonate, and silicate rocks by x-ray fluorescence, 25:10449
determination of trace amounts of, in standard rocks by borate fusion, dissolution in EDTA, ion exchange, and atomic absorption spectrophotometry, 25:10671
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of traces of, in blood by activation methods, 21:12301
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in reactor waters, spectrochemical, 21:5834 (IA-1082, pp 77-202)
determination of, performance of atomic absorption spectrophotometer for, 22:37666
determination of, review on various methods for, 25:23501 (MLM-1801)
determination of, using atomic absorption spectrophotometer, 22:30459
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination using ion permselective membrane, potentiometric, 25:28956
deuteron reactions (d,2n) at 13 MeV, strontium-85 isomer yield ratio in, (E), 25:34031
deuteron reactions with, production of strontium-85 by, 25:4126 (UJV-2431-Ch)
diffusion in glass, effects of temperature on, 25:55611
diffusion in sodium at 0 to 98°C, tracer studies of, 22:17121
diffusion in zirconium at 760 to 1030°C, measurement of activation energy for, 23:27083
diffusion in zirconium, effects of temperature on, 22:41016
diffusion in zirconium, mass spectrometric studies on, 23:18214
diffusion of fission-product, from thoria and urania, 21:46031
distribution between fused salts and liquid metals in fuel reprocessing, 22:51044 (ANL-7425, pp 19-41)
distribution in granite massif in Kabardino—Balkar Republic, USSR, 23:49937
distribution in hydrochloric acid—hydrofluoric acid mixtures with alcohol or ketone, chromatographic studies on, 22:30570
distribution in Salton Sea ecosystem, 25:49125
distribution of, between its aqueous solution and metallic hexacyanoferrates, 21:15909
effects of fission product, on gas pressure in uranium dioxide fuel voids, 23:27201 (N-69-10216)
effects on cesium emission intensity in hydrogen flames with various mixtures of nitrogen—oxygen, 22:27573
effects on cesium-134 uptake by barley roots, 21:26664
effects on color-center production in x-irradiated potassium bromide at 80°K, 24:42788
effects on determination of fluorine in organic compounds and metal-organic compounds by neutron activation methods, 22:14439
effects on determination of metals by displacement chromatography on acidic cation exchange resin, 22:12416

effects on distribution and retention of rubidium-86 in rats, 23:6361
effects on fluorination of fission products—plutonium dioxide—uranium dioxide in fluidized bed, 21:45192 (ANL-7325, pp 50-98)
effects on hydrogen peroxide yields in radiolysis of concentrated nitrate ion solutions, 22:23034 (IA-1128, pp 78-96)
effects on mercury boiler performance, 21:20472(R) (NASA-CR-72146)
effects on neutron activation determination of lithium using Cerenkov detector, 24:11549 (IA-1190, pp 93-122)
effects on photometric determination of antimony following solvent extraction using TBP, 25:34512
effects on potassium metabolism in chicks, 22:21460(R) (COO-1171-82)
effects on radiometric determination of cesium isotopes in water, after extraction as tetraphenylborates, 25:29000
effects on rubidium-86 retention in rats, 24:5983
effects on spectrographic determination of rare earths by rotating electrode, 23:13636
effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
effects on uranium determination by x-ray fluorescence spectroscopy, 23:28701
elastic properties of, 22:21696(R) (ORO-2861-5)
electric conductivity of liquid, data review on, 23:12316
electric conductivity of liquid, experimental and theoretical, 22:43565(R) (COO-841-15)
electric conductivity of, empirical relation for, 21:21922(T) (AWRE-Trans-52)
electric resistivity of, 21:11233
electric resistivity of liquid, effects of temperature on, 24:17264
electromigration in molten chlorides, 25:57439
electron elastic scattering at 25 to 800 eV by, tables of amplitudes and spin polarizations for, (T), 25:13995 (AD-711664)
electron elastic scattering at low energies by, calculation of total cross section for, (T), 23:14618
electron energy loss at 34 keV in thin foils of, 21:3662
electron excitation cross sections for, effective slow, 21:6989
electron reactions at 250 to 2200 eV with, energy dependence of single- and double-ionization cross sections for, (E), 22:17407
electron reactions at low energies with, cross sections for spin exchange in, (T), 23:14618
electron reactions up to 1 keV with, calculated absolute total cross sections for ionization in, 23:22921
electron reactions up to 30 eV with, absolute excitation cross sections for, (E), 21:37128
electron reactions with atomic, excitation cross sections for, (T), 25:2915
electron reactions with atomic, ionization cross sections for, (T), 22:17362
electron reactions with, cross sections for, 21:9314
electron reactions with, excitation rate coefficients for, (T), 25:24882
electron reactions with, ionization by slow, 22:43885
electron reactions with, measurement of excitation cross sections of resonance lines in, 21:24899
electron scattering at 0.3 to 9 eV by, absolute total cross sections for, (E), 25:19506
electron scattering below 10 keV on, ionization cross sections in, (T), 21:31233
electron-capture ratio for, calculation of L/sub I//K, (T), 22:32496
energy levels of, collision-induced mixing in, 21:5069 (UCRL-17175)
energy-level excitation from krypton-85 beta decay, (E), 21:22992
excretion by beagle dogs, effects of cesium, lithium, or rubidium chlorides on, 22:30936 (UCRL-50405)
Fermi surface distortions, 21:11233
fixation in vermiculite and hydrobiotite, 22:42850
gamma activation of, at 30 MeV, gamma spectra of products from, 22:6361 (AERE-R-5547)
heat transfer to boiling, measurement in horizontal cylindrical heaters of, (E), 21:36249
helium atom reactions with, probability of Penning ionization by metastable, (T), 22:24051
helium-atomic reactions with atoms of, gyromagnetic-ratio shifts in, (T), 23:10459
helium-ion reactions at 1 keV with, crossed-beam study of electron capture into excited states in, 25:14011
helium-ion reactions at 10 to 1500 eV with, total cross sections for charge exchange in, (E), 23:27380
ion exchange behavior in ethanol—hydrochloric acid, 23:19837
ion exchange by chromium, titanium, and zirconium phosphates, 22:12291
ionization coefficients of atoms of, on tungsten and platinum surfaces, (E), 22:52496
isotope thermotransport in liquid, 21:3217
isotope thermotransport in liquid, temperature dependence of, 23:7603
lithium-7 scattering by, velocity dependence of total cross sections and bound states of diatoms in, (E), 23:10457
lithium-ion reactions at 0.5 to 20 keV with, total cross sections for charge exchange into excited states in, (E), 25:38156
metabolism of, in man, tracer study of, 21:14597
neutron capture at 0.05, 1.0, and 1.5 MeV, gamma spectra from, (E), 21:33924
neutron capture at 14 MeV, γ spectra from, (E), 25:7829
neutron capture at 14 MeV, γ spectra from, (E), 25:17834
neutron capture by, γ spectra from, (E), 23:21309
neutron inelastic scattering in, calculation of lattice dynamics using quasi-ion approximation, (T), 24:3824 (EUR-3621(Pt.2))
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron scattering by, amplitude and cross section of coherent, (E), 24:43101
oxidation by dry oxygen as a function of pressure and temperature, kinetics of, 22:37711 (CEA-R-3301)
oxygen-atom reactions at 20 eV to 10 keV with, Landau—Zener—Stueckelberg calculation of cross sections for ion-pair formation in, 24:28106
phase properties of, determination of, 22:32735 (ANL-7310, pp 249-375)
phase studies at high pressures, 24:33573(R) (COO-1707-9)
photo-ionization absorption continua for vapors of, 22:29201
photoionization of, theory for three-, 21:11447
photon reactions (γ,n) at 30 MeV, 25:29018
photon reactions (γ,n) with, study of isotopes produced by 35-MeV, 23:24126
plasma of, thermodynamic functions at 2,000 to 25,000°K and 10^{-4} to 100 atm, (T), 22:26411
plasmon energy shift in bcc, 23:48994
polarizability measurements of atoms of, 22:34242 (COO-1112-164)
polarographic behavior in cyclic propylene ester of carbonic acid, 22:30547
positron annihilation in, minimum energy for, (E), 21:16797
Prandtl number of gaseous, 22:36451(R) (AGN-8284)
properties of liquid and vaporous, thermodynamic and transport, 21:4478(R) (AGN-8202)
properties of liquid, review of physical, 21:36833 (UCID-15176)
properties of vaporous, at 3000°K, kinetic method for calculation of thermodynamic and transport, 24:1027
properties of, compilation of engineering and physical, 24:21347 (TUBIK-13)
properties of, data tabulations on thermophysical, 22:31343 (AGN-8195(Vol.1))
proton reactions at 2 to 30 keV with, energy dependence of H(2s) production in (E), 22:1011
proton reactions at 2 to 50 keV with, cross sections for charge exchange in, (E), 22:21845 (NYO-2962-6, pp 63-9)
proton reactions with, charge exchange cross sections for, 23:18397
proton reactions with, cross sections for formation of excited hydrogen atoms in, (T), 24:49036
purification by chloride reduction under high vacuum, 23:43390
radiation dose rate and relative intensity measurements for gamma-excited, x, 23:31754 (UCRL-50007-68-3, pp 5-11)
radioisotopes produced by cosmic radiation during space flight, 22:19400(R) (BNWL-531-1)
reactions between atoms of, calculation of spin-exchange and spin-dependent scattering cross sections for, 23:12548
reactions between excited and ground-state atoms of, cross sections for excitation transfer in, (T), 23:48738
reactions of atomic, with helium, hydrogen, and neon, cross sections for fine-structure transitions in, (E/T), 22:2800
reactions of liquid, with refractory metals at high temperatures, 21:30963
reactions of, resonance charge transfer in ion-molecule, 21:30402 (UCRL-17330, pp 1-78)
reactions of, spin-exchange cross sections for atomic, (E/T), 22:26264
reactions with bromine molecular beams, angular distributions and cross sections for, (E), 21:41810
reactions with cesium and rubidium atoms, total cross sections for elastic scattering and spin exchange in, (T), 25:9202
reactions with graphite, 21:42920
reactions with helium and neon at 500 to 3000 eV, energy spectra of electrons from, (E), 24:12648
reactions with inert gases, cross sections for 5^2P/sub 1/2/ in equilibrium 5^2P/sub 3/2/ excitation transfer for adiabatic, (E), 22:38758
reactions with inert-gas atoms, cross section for depolarization of $^2P(^1/_2, {}^3/_2)$ states in, (E), 21:28978
reactions with krypton of optically polarized, evidence for RbKr molecule formation in relaxation experiments on, (T), 23:20699
reactions with molecular chlorine, kinetics of crossed beam, (E), 22:41314
reactions with niobium-base—zirconium alloys at 1200°C, 23:14297 (ORNL-4323)
reactions with nitrogen of optically excited, vibrational excitation in, (E), 23:8437
reactions with potassium atoms, cross-section ratios for excitation transfer in, 24:23799
reactions with potassium excitated atoms, cross sections for excitation transfer in, (E), 23:20706
reactions with rare gas atoms, mixing in ^2P state in inelastic, (T), 22:29284
reactions with rare gases of excited atoms of, cross sections for excitation transfer in, (T), 23:30346
reactions with rubidium ions at 10 to 500 eV, total cross sections for resonant charge exchange in, (E), 22:47826
refractive index of films of, (E), 24:40183 (ORNL-4446, pp 177-96)
release of fission product, trapping and behavior in containment and cooling systems of liquid sodium cooled fast reactors of, (E/T), 24:11208 (BNL-14242)
retention of, in waste solutions, method for, 21:131 (ORNL-TM-1584)
rubidium-ion (Rb^-) reactions with, cross sections for resonant charge exchange in, (T), 24:1282
scattering by argon, krypton, and xenon, total cross sections for, (E/T), 22:11235
scattering by carbon tetrachloride, iodomethane, and tin chloride, crossed-beam measurements and optical-model analysis of, 25:19497
scattering by krypton, total cross section for, (E), 22:15341
scattering by potassium and sodium at 0.1 to 0.2 eV, analysis of data on differential spin exchange in, (T), 25:9224
scattering by potassium and sodium at 0.1 to 0.2 eV, differential cross sections for elastic and spin-exchange, (E), 25:9223
scattering of atomic, by krypton, velocity dependence of total cross sections for, (E), 21:18418
separation by ion exchange using acetone—hydrochloric acid—water system, 23:13674
separation by ion exchange using aliphatic monocarboxylic acids of C_7 to C_9 fraction, 22:4087
separation by ion exchange using synthetic zeolite 4A in methanol—water, thermodynamics of, 25:44433
separation by ion exchange, comparison of, with separation of other univalent ions, 25:48593
separation by ion exchange, sorptive properties of copper, zinc, and zirconium ferrocyanides for, 24:27181 (ANL-7615, pp 18-25)
separation by solvent extraction using dialkyl phosphates in various organic diluents, 23:9533
separation from acetone—hydrochloric acid solutions by ion exchange using Bio-Rad, distribution coefficients for, 25:41899
separation from alkali metals using antimonic acids, chromatographic, 24:4373
separation from aqueous acid solutions by solvent extraction using nitrobenzene and nitromethane, comparison of, 22:6415
separation from aqueous solutions and other rare metals by solvent extraction, 25:23701
separation from aqueous solutions by ion exchange on zirconium tellurate, tracer studies on, 25:41915
separation from aqueous solutions by ion exchange, kinetic studies of film diffusion region in, 25:23691
separation from aqueous solutions by solvent extraction using 4-tert-butyl-2(α-methylbenzyl)phenol, 25:23702
separation from aqueous solutions containing sodium tetraphenylborate, sodium perchlorate, and perchloric acid by solvent extraction, 23:24296
separation from arsenic by paper chromatography, 22:25257
separation from cesium and potassium by ion exchange using titanium hexacyanoferrate(II), 21:30518
separation from cesium and sodium by ion exchange using zirconium molybdate, zirconium phosphate, or zirconium tungstate, 25:48573
separation from cesium and thallium in nitric acid by cation exchange on ammonium molybdophosphate, 24:48152
separation from cesium by chromatography using inorganic ion exchangers, 24:25110
separation from cesium by extraction chromatography, 22:40031
separation from cesium by ion exchange using ammonium and thallous salts of heteropolyacids, 21:28060
separation from cesium by solvent extraction using 4-tert-butyl-2(α-methylbenzyl)phenol and chromatography, 25:23702
separation from cesium by solvent extraction using phenol, effect of diluent on partition coefficient in, 25:34701
separation from cesium by solvent extraction, distribution studies on, 21:28731(R) (IS-RD-9)
separation from cesium by solvent extraction, review on, 25:18510
separation from cesium, francium, and sodium by ion exchange chromatography, 25:21093
separation from cesium, lithium, potassium, and sodium by ion exchange chromatography on BIO-REX 40, 23:4737
separation from cesium, potassium, and sodium by column chromatography on microcrystalline cellulose, 23:28993
separation from cobalt by ion exchange on Dowex 50W-X12, 25:235
separation from fission products using hydroxides, method for, 25:6258(R) (IN-1426)
separation from hydrochloric acid by solvent extraction using dibutyl carbamoylphosphonate, 24:39008
separation from macro amounts of iron or gold by solvent extraction using polar organic solvents, 24:9476
separation from metals by chromatography and electrophoresis using inorganic ion exchangers, 24:25110
separation from metals simultaneously with other alkali metals, ion exchange, 22:37866
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from MSBR fuel solvent by extraction into bismuth by reduction with lithium at 650°C, 25:54534 (ORNL-4717, pp 43-56)
separation from MSBR fuel solvent by reductive extraction, 25:57298 (ORNL-4676, pp 73-138)
separation from nitric acid solutions by solvent extraction using N-(di-n-butylphosphoro)-succinimide, 22:16666
separation from other alkali metals by fixation on hydrated antimony pertoxide in hydrochloric, nitric, and perchloric acids, effects of acidity and time on, 25:2333
separation from other alkali metals by solvent extraction using bis(2-ethylhexyl) phosphate, effects of 4-sec-butyl-2(α-methylbenzyl)phenol on, 22:16691
separation from other alkali metals by thin-layer chromatography, 21:24067 (NIRS-5, pp 10-16)
separation from other alkali metals, chromatographic, 22:45173
separation from other alkali metals, ion exchange, 22:37867
separation from other metals and other alkali metals by ion-exchange paper chromatography, 22:18881

separation from other metals by chromatography on stannic phosphate and stannic tungstate papers, 22:4248
separation from other metals by paper chromatography using titanic tungstate, 24:280
separation from other metals by thin-layer chromatography, 23:47617
separation from other metals, development of methods for, 23:35264
separation from rocks in acid solutions by solvent extraction and ion exchange, 25:21146
separation from strontium and yttrium by precipitation with iron hydroxide, 21:24094
separation from strontium by ion exchange, 21:28018
separation from sulfuric acid systems with hydrobromic acid or potassium iodide by solvent extraction using benzene, 22:16658
separation from titanium by paper chromatography, 22:25257
separation from tungsten by paper chromatography, 22:25257
separation of carrier-free strontium-85 from deuteron-irradiated, by solvent extraction, method for, 24:52563(R) (NP-18217)
separation of cesium from, by precipitation with sodium tetrakis(m-trifluoromethylphenyl)borate, 23:17335
separation of potassium from, after neutron activation using titanium hexacyanoferrate, 21:35886
separation of rare earths and scandium from, by cation exchange chromatography, 23:40829
separation of, from fission products, method for, 21:15878(R) (MIT-905-81)
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, from other fission products by ion exchange on vanadium ferrocyanide, 21:3153
separation of, from other fission products by solvent extraction using bis(2-ethylhexyl) phosphate, 21:4616(P)
shock compressibility of, model for analysis of, 24:42122
solvent properties of liquid, for iron, molybdenum, niobium, and tantalum at 800 to 1200 deg C, 21:1891 (NASA-CR-610)
solvent properties of liquid, for transition metals, 22:15187 (UCRL-50315)
sorption by manganese dioxide from nitric acid, 22:157
sorption by roots of plants, effects of uranyl ions on, 22:8494
sorption by silicates, effects of pressure on, 22:31503
sorption from seawater onto various container surfaces, effects of addition of hydrochloric acid on, 22:45043
sorption of fission-product, by graphite at high temperatures, 25:55623
sorption of seawater-containing, by surfaces of polyethylene and Pyrex containers, 23:13669 (BNWL-715(Pt.2), pp 1-149)
spectra of, absorption vacuum-ultraviolet, (E), 24:15083
spectral studies on Knight shift in, isotopic differences in, 21:25196
surface tension for liquid, tabular summary of constants for, 23:49572 (ANL-7410, pp 229-337)
surface tension of liquid, in ultrahigh vacuum, (E), 22:17459
surface tension of liquid, measurement at 700 to 1200°K, 21:41593
textbook on, 21:34854
thermal capacity measurements at 0.2 to 0.4°K, 23:14697
thermal conductivity at 1000 to 1300°F of vaporized, 21:43552 (BNL-50068)
thermal conductivity at 823 to 1140°K of vaporous, 23:30002(R) (AGN-8296)
thermal conductivity of liquid, review of data on, 23:12316
thermal conductivity of superheated vaporous, (E), 23:16031 (AGN-8192(Vol.2))
thermal conductivity of vaporous, at 1000 to 1300°F, 21:30390(R) (AGN-8222)
thermal conductivity of vapors of, at 500 to 3000°K, (E/T), 22:13002 (CU-2660-37)
thermodynamic properties at 800 to 1500°K and 0.2 atm to saturation pressure of, measurement of, 21:43552 (BNL-50068)
thermodynamic properties of, 21:21907(R) (AGN-8215)
thermodynamic properties of plasma of, (T), 21:2262
thermodynamic properties of, at high temperatures, 21:25812 (AGN-8192(Vol.1))
thermodynamic properties of, in liquid cesium—rubidium alloys at 111°C, 21:45068 (ANL-7325, pp 99-135)
thermodynamics in molten salts, 24:46307 (ORNL-4548, pp 93-186)
transport properties of, 21:21907(R) (AGN-8215)
transport properties of, at high temperatures, 21:25812 (AGN-8192(Vol.1))
uptake by barley roots, mechanism of, 22:31004
uptake by Chlorella pyrenoidosa, 22:21011(R) (UCB-34-P-5-47)
uptake by roots of barley, effects of uranyl ion on, 22:422 (RLO-1547-4)
use as positive ion source for propulsion of space vehicles, 21:4655(P)
use as working fluid in 500 W Rankine cycle space power plant, 21:26113
use in analysis of movement patterns of rats, method for, 21:41312 (COO-1485-14)
use in New Zealand atomic clock, 22:8423
vapor and liquid densities of, γ radiation technique for measuring, 21:16081
vapor pressure and surface tension of, data tabulations on, 22:10945 (EUR-3653)
vaporization in liquid sodium, 23:9344 (BNL-11611)
vaporization of liquid, to critical point, method for calculation of, 22:51173
viscosity at 900 to 1500°K, method for prediction of, 22:8753
viscosity of, 23:984(R) (CU-2660-32)
viscosity of liquid, 21:17607 (NYO-2082-9)
viscosity of liquid, at melting point to 1070 deg C, 21:1310 (AGN-8192(Vol.3))
viscosity of liquid, from melting point to 1070°C, 21:16589 (BNL-50034)
viscosity of vapors of, 22:14478 (CU-2660-39)
viscosity of vapors of, to 1000°C and 0.4 to 5 atm, 22:38554
viscosity of vapors of, to 1000°C, high temperature coiled capillary viscometer measurements of, 23:12298 (CU-2660-36)
wave phase shifts of liquid, Ziman pseudo-atom, (T), 21:11394 (ORNL-P-2569)
x-ray energy change due to ionization, perturbation-theory calculations of K-, 25:40367
graphite—Rb, thermodynamic properties of lamellar $C_{10}Rb$, 21:3545
RUBIDIUM ACETATES
electrolysis of, rubidium-87 enrichment by countercurrent, 21:40920
RUBIDIUM ACID PHOSPHATES
radiation effects on thermoluminescence of, x, 22:30635
radiation effects on, oxidation states and recoils formed by thermal-neutron, 22:42724 (COO-1618-8)
RUBIDIUM ALLOYS AND SYSTEMS
Cs—K—Rb, physical properties of low eutectic, 21:43594
Cs—Na—Rb, physical properties of low eutectic, 21:43594
Cs—Rb, thermodynamic properties of liquid, 21:36073(R) (ANL-7350)
Cs—Rb, thermodynamic properties of rubidium in liquid, at 111°C, 21:45068 (ANL-7325, pp 99-135)
D—Rb, fluorescence and quenching in, sensitized, 25:6319
DH—Rb, fluorescence and quenching in, sensitized, 25:6319
ethane—Rb, fluorescence and quenching in, sensitized, 25:6319
ethylene—Rb, fluorescence and quenching in, sensitized, 25:6319
Fe—H—Rb—Si, phase studies of, 25:2727 (ORNL-4570, pp 1-4)
graphite—Rb, phase equilibria and thermodynamic properties of, 22:4898
H—Rb, fluorescence and quenching in, sensitized, 25:6319
K—Na—Rb, phase studies of, thermal methods for, 25:55524(R) (COO-1707-11)
K—Na—Rb, physical properties of low eutectic, 21:43594
methane—Rb, fluorescence and quenching in, sensitized, 25:6319
N—Rb, fluorescence and quenching in, sensitized, 25:6319
Na—Rb, free energy of mixing in, excess, 21:4481 (BNL-10727)
Na—Rb, phase equilibria in, solid-liquid, 24:17317
Na—Rb, phase studies on eutectic point for, 24:36881
Na—Rb, thermodynamic properties of liquid, 21:36073(R) (ANL-7350)
Na—Rb, thermodynamic properties of solutions of, 23:40913 (BNL-50149, pp 123-52)
Na—Rb, thermodynamic properties of, at 384°K, 22:25321 (ANL-7375, pp 95-134)
O—Rb—Tc, preparation of compounds in, 22:4071(T) (ANL-Trans-539)
Pu—Rb, phase studies of, 22:2655
Pu—Rb, properties of aerosols produced by combustion or vaporization of, 23:46010
RUBIDIUM AMERICIUM FLUORIDES
crystal structure, 22:85
RUBIDIUM ARSENATES
spectra of arsenic-75 in polycrystalline, nuclear quadrupole resonance, 23:7522
RUBIDIUM ASTATIDES
molecular structure of, effects of temperature on interionic distances in, 24:18969
thermal properties at 0 to 300°K, 22:45078
RUBIDIUM AZIDES
radiation effects on single crystals of, ESR studies, 23:30618(R) (NYO-3681-3)
radiolysis of, proton, 21:12463
RUBIDIUM BARIUM FLUOROURANATES
spectra of, reflectance, 23:33202
RUBIDIUM BARIUM URANIUM OXYFLUORIDES
preparation and properties of, 23:28814
RUBIDIUM BORATES
crystal structure of, 24:2945 (ORNL-4470, pp 52-7)
RUBIDIUM BOROHYDRIDES
radiation effects on, ESR spectral studies on free radicals produced by γ, 24:4309
RUBIDIUM BROMATES
bromine-80 isomeric transitions in, thermal annealing of recoils produced by, 25:6383
radiolysis of, yields in electron, 22:16589
spectra of liquid and solid, ir and Raman, 24:274 (ORNL-4437, pp 40-7)
RUBIDIUM BROMIDES
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
elastic constants for, second pressure derivatives of, 24:14896(R) (NYO-3991-5)
elastic constants of, pressure and temperature dependence of, 25:2012 (NYO-2504-69)
elasticity of single crystals of, 23:11480(R) (NYO-3991-2)
electric conductivity of aqueous solutions of, at 0 to 800°C and to 4000 bars, 21:22841 (ORNL-4076, pp 55-79)
electron emission from films of, bombarded by sodium ions and atoms at 30 to 2500 eV, 25:33053
isotope mobility in molten, in electrolysis, 21:14301
neutron total cross section at 100 to 650 keV, optical model analysis of average, (E/T), 25:43908
neutron total cross section at 30 to 650 keV, (E), 22:20578 (WASH-1079)
neutron total cross section at 30 to 650 keV, average, (E), 22:22560(R) (ORO-1067-2)
partition function ratio of isotopic, 21:1349
radiation effects on single crystals of, temperature dependence of diffusion of krypton from, (E), 22:34792
radioinduced F centers at 78°K in crystals of, effects of bromine K edge energy on x, (E), 22:44206 (CONF-680902-3)
radioinduced F centers at 78°K, effects of energy below and above K edge on formation of x-, (E), 24:42760
radioinduced F centers in, energy required for x, (E), 22:5421 (PRNC-106)
radioinduced luminescence of thallium-activated, electron—hole component of, 21:21061
radioinduced photoemission spectra of crystals of, electron, (E), 23:51790
vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
KBr—RbBr, phonon frequency spectrum in, measurement using neutron scattering, (E), 21:40473(R) (PR-P-74)
Li—LiBr—RbBr—Se, thermodynamic properties of, emf measurements of, 25:58387(R) (ANL-7823)
LiBr—LiSe—RbBr, phase studies, 25:35275(R) (ANL-7777)
LiBr—RbBr, properties of eutectics of, for use as paste electrolytes, 25:35275(R) (ANL-7777)
RbBr—$ScBr_3$, phase diagram of, 24:14944
RUBIDIUM CARBONATES
reactions with dichlorodifluoromethane at 450 to 800°C, production of corresponding chloride and/or fluoride compounds by, 24:41296
RUBIDIUM CHLORATES
radiolysis of, yields in electron, 22:16589
RUBIDIUM CHLORIDES
see also Rubidium Manganese Chlorides
analysis for chloride, coulometric, 22:9(R) (NBS-TN-425)
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
compressibility and sound velocity of aqueous solutions of, at 25°C, 21:40814 (COO-504-11)
defects in crystals of, Stark effect on F-center emission band, (E/T), 22:15567 (NYO-3564-9)
diffusion of krypton after 15-keV implantation in single crystals of, (E), 24:42782
diffusion of krypton in neutron-irradiated single crystal of, 24:2266(R) (HMI-B-84)
diffusion of sodium in, activation energy for, 24:25674 (ANL-7417, pp 61-8)
effects on temperature of maximum density of normal and heavy water, 22:42684
effects on yields in radiolysis of aqueous solutions, 22:23034 (IA-1128, pp 78-96)
elastic constants for, second pressure derivatives of, 24:14896(R) (NYO-3991-5)
elastic constants of, pressure and temperature dependence of, 25:2012 (NYO-2504-69)
elasticity of single crystals of, 23:11480(R) (NYO-3991-2)
electric conductivity of aqueous solutions of, at 0 to 800°C and to 4000 bars, 21:22841 (ORNL-4076, pp 55-79)
electric dipole moments of, from radio-frequency Stark spectra, 22:5045 (UCRL-17909)
impurity location in crystals of, by axial channeling of helium ions and protons, 25:56337
ion-implantation damage in crystals of, depth distribution of 15-keV, 25:36272
isotope mobility in molten, in electrolysis, 21:14301
paramagnetic resonance spectra of silver atoms stabilized by x irradiation in crystals of, (E), 23:7040
partition function ratio of isotopic, 21:1349
phase transformations in insulators of, detection by dielectric constant measurement of pressure-induced, 22:48985 (SC-DC-68-2410)
photoeffect quantum yields from, (E), 22:38799
preparation of targets of, strontium-85 production by deuteron reactions with, 25:15702
properties of compressed forms of, x-ray analysis of, 22:13036 (BNWL-473, pp 7.1-71)
radiation effects on electric conductivity of crystals of, effects of divalent cation impurities on 1.2-MeV-electron, 25:59172
radiation effects on single crystals of, temperature dependence of diffusion of krypton from, (E), 22:34792
radiation effects on, chemical states of recoil sulfur-35 from neutron, 25:13065
radiation effects on, production of yttrium-87 by α, 25:32011
radiation effects on, spatial distributions in γ, 23:42393(R) (COO-1807-1)
radioinduced B centers in silver-doped crystals of, formation mechanism of x-, (E), 24:30391
radioinduced color centers in, Stark effect in x-, 22:22199 (COO-1105-128)
radioinduced F_1 centers in crystals of, optimum temperatures for buildup of proton, 23:51755
reactions with uranium oxides UO_3 and U_3O_8, properties of diuranates from, 22:40089
reduction by calcium under high vacuum, preparation of high-purity rubidium by, 23:43390
solubility of rubidium-83-labeled, in thallium-activated sodium iodides, 21:36382
spectra at 80°K on thin films of, Cl^- L_{23} absorption, (E), 22:46228
spectra of, production and measurement of F' band in, 21:44153 (IS-T-179)
thermodynamic properties of, in aqueous and nonaqueous solutions at 25°C, 21:25822(R) (TID-22366)
vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
viscosity of aqueous solutions of, effects of deuterium on, 23:40652

volume changes under high pressure, use in calibrating metallurgical equipment, 21:45279 (BNWL-465)
AgCl—RbCl, thermodynamic property calculations from phase diagram, 21:8234 (IS-T-123)
CsCl—RbCl, radiation effects on, oxidation states of recoil radioiodine from proton, 23:19791
CsCl—RbCl, radiation effects on, oxidation states of recoil radioiodine from proton, 22:25389
HCl—RbCl, thermodynamic properties of aqueous, from electromotive force measurements at 25 to 175°C, 23:103 (ORNL-4306, pp 73-105)
KCl—RbCl, radiation effects on electric conductivity of crystals of, effects of divalent cation impurities on 1.2-MeV-electron, 25:59172
KCl—RbCl, radioinduced F centers in mixed crystals of, efficiency of 5°K electron, 23:25457
LiCl—RbCl, thermodynamic property calculations from phase diagram, 21:8234 (IS-T-123)
RbCl—UO_2Cl_2, phase studies on, 25:44371
RUBIDIUM CHLOROURANATES
magnetic properties of solid and liquid, 24:45348
preparation of $RbUCl_6$, 22:27651
spectra of $RbUCl_6$, ESR and ir, 22:27651
RUBIDIUM COBALT CHLORIDES
spectra of polycrystalline, absorption, 24:1088 (ORNL-TM-2507)
RUBIDIUM CURIUM FLUORIDES
crystal structure, 22:85
RUBIDIUM DEUTERIDES
spectra of, absorption, 21:3046
RUBIDIUM FLUORIDES
see also Rubidium Manganese Fluorides
see also Rubidium Protactinium Fluorides
see also Rubidium Thorium Fluorides
see also Rubidium Uranium Fluorides
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
density at 820 to 945°C, 21:23861(R) (ORO-2073-12)
diffusion of krypton in neutron-irradiated single crystal of, 24:2266(R) (HMI-B-84)
electric conductivity of aqueous solutions of, at 0 to 800°C and to 4000 bars, 21:22841 (ORNL-4076, pp 55-79)
electric dipole moments of, from radio-frequency Stark spectra, 22:5045 (UCRL-17909)
luminescence of uranium-activated, 23:6113
magnetic dipole moments for, molecular beam electric resonance measurements on, 21:29969(R) (UCRL-17299)
partition function ratio of isotopic, 21:1349
radiation effects on single crystals of, temperature dependence of diffusion of krypton from, (E), 22:34792
radioinduced color centers in, optical studies of electron, 22:13568
reactions of, with actinide and rare earth fluorides, crystal structure of compounds formed by, 21:10311 (KFK-431)
reactions with uranium hexafluoride, self-ionization studies on, 24:48101
reactions with uranyl fluorides in aqueous solutions, chemical, ir, and x-ray spectrographic study of compounds from, 22:45086
BeF_2—LiF—RbF, activity coefficients, partial pressure, and relative volatilities in, at 1000°C, 23:352 (ORNL-4272, pp 1-33)
BeF_2—LiF—RbF, equilibrium data on liquid—vapor phases at 950 to 1050°C, 23:36222 (ORNL-4415)
CeF_4—RbF, complexes of, use of molar refractivity in determining composition of, 23:33183
H_2O—MoO_3—RbF, phase studies and compound formation in, 22:45080
H_2O—RbF—UO_2F_2, compound formation in, 23:21715
H_2O—RbF—WO_3, phase studies and compound formation in, 22:45080
H_2O—RbF—ZrF_4, phase studies on, at 25°C, 21:21947
NpF_5—RbF, preparation and structure of, 22:30555
PaF_4—RbF, preparation and structure of, 22:30555
PtF_4—RbF, complexes of, use of molar refractivity in determining composition of, 23:33183
PuF_5—RbF, preparation and structure of, 22:30555
$RbBF_4$—RbF, phase diagram of, 25:57298 (ORNL-4676, pp 73-138)
$RbBF_4$—RbF, phase diagrams for, 24:46307 (ORNL-4548, pp 93-186)
$RbBF_4$—RbF, phase diagrams for, 25:54532 (ORNL-4717, pp 1-27)
$RbBF_4$—RbF, phase studies on, 24:36205 (ORNL-4586, pp 1-32)
RbF—ThF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
RbF—UF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
RbF—UF_5, complexes of, use of molar refractivity in determining composition of, 23:33183
RbF—ZrF_4, complexes of, use of molar refractivity in determining composition of, 23:33183
RUBIDIUM FLUOROBORATES
enthalpy and entropy of, 24:48066 (ORNL-4581, pp 90-130)
melting points and solid transition temperatures of, 24:16486 (ORNL-4449, pp 96-163)
melting points and solid—state transition temperatures of, 24:36205 (ORNL-4586, pp 1-32)
molar volumes of, 24:16486 (ORNL-4449, pp 96-163)
thermodynamic properties of, 24:46307 (ORNL-4548, pp 93-186)
transition of, calculation of heat of, 25:51314 (NUMEC-3292-23)
$RbBF_4$—RbF, phase diagram of, 25:57298 (ORNL-4676, pp 73-138)
$RbBF_4$—RbF, phase diagrams for, 24:46307 (ORNL-4548, pp 93-186)
$RbBF_4$—RbF, phase diagrams for, 25:54532 (ORNL-4717, pp 1-27)
$RbBF_4$—RbF, phase studies on, 24:36205 (ORNL-4586, pp 1-32)
RUBIDIUM FLUOROBROMIDES
reactions of, with uranium tetrafluoride in bromine trifluoride, complexing and neutralization in, 21:1344
RUBIDIUM GRAPHITE
(The lamellar compound)
reactions with gaseous halides, hydrogen, and oxygen, 21:42920
RUBIDIUM HAFNIUM PHOSPHATES
crystal structure of, 23:142
preparation of, 23:142
RUBIDIUM HALIDES
color centers in, empirical relationships for emission energies and lifetimes of F, 22:13537 (ORNL-TM-2054)
gas migration in ionic crystals of, inert, (T), 23:7065
model of, ultrasonic parameters in Born, 24:41128 (ORO-3802-5)
RUBIDIUM HYDRIDES
molecular constants for, 21:3046
thermodynamics of, 22:12958
RUBIDIUM HYDROXIDES
spectra of matrix-isolated, effects of deuterium on ir, 23:49780
spectra of, effects of deuterium on microwave, 23:24147
structure of double-labeled, microwave spectral studies on, 23:11513
RUBIDIUM IODATES
radiation effects on, reactions of recoils in neutron, 24:36284
RUBIDIUM IODIDES
binding energy of, comparison of, with that of copper, gold, and silver halides, 21:35913(R) (COO-1087-104)
diffusion of krypton in neutron-irradiated single crystal of, 24:2266(R) (HMI-B-84)
diffusion of krypton in, comparison of ion bombardment with reactor irradiation in study of, 24:28432
diffusion of xenon in single crystals of, effects of natural and radioinduced defects on, 25:33421
diffusion of xenon-133 in iodine-133-doped monocrystalline, at 150 to 500°C, 24:10160(R) (ORO-3508-5)
dislocation motion in secondary slip planes of single-crystal, 24:26331
effects on kinetics of γ-radioinduced graft polymerization of poly(ethylene terephthalate) with acrylic acid or methacrylic acid, 25:46504
elastic constants at low temperatures, (E), 21:5320(R) (COO-623-115)
elastic constants for, second pressure derivatives of, 24:14896(R) (NYO-3991-5)
elastic constants of, pressure and temperature dependence of, 25:2012 (NYO-2504-69)
elasticity of single crystals of, 23:11480(R) (NYO-3991-2)
electric conductivity of aqueous solutions of, at 0 to 800°C and to 4000 bars, 21:22841 (ORNL-4076, pp 55-79)
iodine-127 nuclear acoustic quadrupole resonance in, 22:11530
iodine-131 exchange between iodomethane and, 24:41267
luminescence of, photon- and γ-induced, 22:29560
partition function ratio of isotopic, 21:1349
radiation effects on single crystals of, temperature dependence of diffusion of krypton and xenon from, (E), 22:34792
radioinduced fluorescence of thallium-activated, fading of alpha and gamma, 21:12646(T) (ANL-Trans-417)
radioinduced luminescence of indium- and thallium-activated, electron—hole component of, 21:21061
radioinduced scintillations in thallium-activated, rise and decay of alpha- and gamma-, 21:21063
radioinduced V/sub K/ centers in single crystals of thallium-doped, EPR study of x-, 25:33430
rubidium-85 and rubidium-87 nuclear acoustic quadrupole resonance in, 22:11530
solubility of rubidium-83-labeled, in thallium-activated sodium iodides, 21:36382
spectra of, production and measurement of F' band in, 21:44153 (IS-T-179)
V/sub k/ center diffusion in, activation energy for, 23:5452(R) (NYO-3842-5)
vacancy defect mobility in electron-irradiated, 24:32895 (ORNL-4526, pp 1-17)
xenon-atom reactions with, crossed-beam study of dissociation in, 25:43131
CsI—LiI—RbI, phase studies on, 24:43991 (ANL-7650, pp 41-66)
LiI—RbI, phase studies on, 24:43991 (ANL-7650, pp 41-66)
RUBIDIUM IONS
chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
complexes with uranyl oxalates, crystallization of, 21:21949
diffusion and mobility in atmosphere, measurement of, 23:38107
effects on cesium uptake by wheat seedlings, 21:24303
effects on cesium-137 absorption by peas and wheat, 21:16272
effects on manganese uptake by barley roots, 21:40743 (RLO-1547-5)
effects on separation of zirconium from plutonium by solvent extraction, 21:40763 (LA-3743)
electron reactions with, calculation of ionization cross sections for, 23:41952
energy-level excitation by beta decay of krypton-85 trapped in solid rare gases, spectra of, 23:48998
excitation spectra of Rb^+ state from krypton-85 beta decay in solid krypton, shifts and probabilities in, (E/T), 25:38541(T) (NRC-TT-1461)
excitation spectra of Rb^+ state in beta decay of krypton-85, (T), 25:38540(T) (NRC-TT-1455)
fluorescence excitation by krypton-85 beta decay in rare gas solids, 25:7484
implantation in germanium and silicon, for fabrication of radiation detectors, 22:40387
implantation in silicon at 40 keV, electrical properties of, 25:19780
implantation in silicon, depth profiles, lattice location/disorder, and diffusion in, 24:45322
implantation in silicon, effects on oxidation during annealing, (E), 24:40169
implantation into silicon at 5 to 50 keV, analyses of, 24:51800
nuclear magnetic resonance of, detection using optical pumping with charge-exchange collisions, (E), 23:5962
permeability of Streptococcus faecalis to, effects of antibiotics on, 21:39335
radii in fluorides and oxides, 24:188
radioprotective effects of, against depilation in mice, x, 25:24222
range of rubidium-86 at 0.1 to 1.0 MeV in oriented tungsten single crystals, electronic and nuclear stopping in, (E), 21:40092
ranges and spectra of, in copper, silver, and gold films up to 20 keV, (E), 24:8321
reactions with helium up to 12 keV, cross sections for excitation of resonance lines in, (E), 24:10380
reactions with molybdenum, energy spectra and yield of molybdenum ions (Mo^+) from, (E), 25:24849
reactions with nitrogen molecules at 30 to 100 keV, absolute emission cross sections for, (E), 25:2902 (SC-RR-70-695)
reactions with rubidium atoms at 10 to 500 eV, total cross sections for resonant charge exchange in, (E), 22:47826
reactions with rubidium atoms, charge-exchange cross sections for, (E), 23:5962
reactions with rubidium of negative, cross sections for resonant charge exchange in, (T), 24:1282
reactions with tungsten at 2600°K, effect of carbide formation on secondary W^+ emission at 2.1 keV, (E), 25:45295
reactions with tungsten, sputtering of secondary tungsten ions from, 25:55819
scattering by molybdenum and tungsten monocrystals, effects of thermal lattice vibrations on, 25:1269
scattering by molybdenum and tungsten single crystals at 100 to 260 eV, (E/T), 21:23282
scattering by molybdenum monocrystals at 0.3 to 4 keV, coefficients for, 22:5128
scattering by polycrystals and single crystals at 0.2 to 4 keV, (E), 23:44527
scattering by tungsten single crystals, angular and energy distributions in, (E), 21:28991
sorption by uranium ferrocyanide, effects of acidity and ammonium ions on, 21:25955
spectra of singly ionized, absorption vacuum-ultraviolet, (E), 24:15083
transport in corn roots, effects of carbonylcyanide m-chlorophenylhydrazone and uranium oxide ions on, 25:8602
transport in ocular lens, effects of chemical and electric potential on kinetics of, 24:16968(R) (COO-2012-4)
RUBIDIUM IRON FLUORIDES
iron-57 Moessbauer effect in, effective field parameters for, (E), 21:42195
magnetization near Neel point, measurements using iron-57 Moessbauer effect, (E), 22:46253
RUBIDIUM IRON SULFATES
crystal field splitting in Tutton salt, from Moessbauer studies, (E), 22:26459
RUBIDIUM ISOTOPES
abundance in Apollo 11 lunar samples, (E), 24:21525
abundance ratios of, method for mass spectroscopy analysis for determining, 23:4854 (NBS-TN-277)
abundance relative to strontium isotopes in basalt and granite, effects of weathering on, 24:9508
abundance relative to strontium isotopes in deep-sea silts, effects of aluminum silicate detritus on, 24:9508
content in geologic materials, use in age estimation, 23:7628(R) (MIT-1381-16)
content in rocks, methods and standards for determination of, 24:7497(R) (MIT-1381-17)
content in tin granites, age estimation from, 21:184
content in uranium ores in Sweden, age estimation from, 21:194
content in volcanic rocks of, variations in, 21:8442
decay schemes for, tables on, 23:33331 (BNL-13595)
determination in rocks, methods and standards for, 25:54757(R) (MIT-1381-18)
determination in solid rubidium samples, ion source for, 23:6074
determination of abundance ratios of, mass spectrometric, 25:37 (NBS-TN-506)
determination of, errors in spectral methods for, 24:5591
diffusion of fission product, from uranium dioxide fuel elements, 22:2709 (RT/FIMA-(67)2)
effects on countercurrent electromigration of lithium cations in halides, 25:44361
energy levels of odd-A, calculations using Coriolis coupling model with pairing-type residual interaction, (T), 23:15395
exchange on Zeolith A ion exchangers, 21:23867
neutron delayed emission of, from uranium-238 proton fission, (E), 24:30771
production by proton reactions with strontium and yttrium at 660 MeV, (E), 22:35283
production in proton fission of uranium, cross sections for, (E), 22:27168
production of A = 83 to 98, in proton fission of uranium-238 at 150 MeV, (E), 22:30033
production of high-purity radioactive, 23:26261 (AERE-M-2135)
production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
separation by thermotransport in liquid rubidium, 23:7603
separation of, 22:37938 (ORNL-4271)
separation of, by thermotransport in vertical capillaries containing liquid metal, 21:3217

- separation of, gas contamination processes in electromagnetic, 25:44517 (BMBW-FBK-70-28, pp 209-12)
- yields from fast fission of plutonium-239, 23:23910(R) (IN-1277)
- yields in plutonium-239 thermal neutron fission, (E), 22:44680(R) (IN-1189)

RUBIDIUM ISOTOPES Rb-76

- identification from proton spallation of heavy elements at 24 GeV, (E), 24:3927

RUBIDIUM ISOTOPES Rb-78

- decay of isomeric, γ energies and half-life for, (E), 25:17784
- gamma spectra of, line intensities in, (E), 22:42002
- half-life from proton spallation of heavy elements at 24 GeV, (E), 24:3927
- production by proton spallation of tantalum at 10.5 GeV, (E), 22:24879

RUBIDIUM ISOTOPES Rb-79

- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, gamma and positron spectra for, (E), 25:17787
- gamma spectra of, line intensities in, (E), 22:42002
- production by proton spallation of tantalum at 10.5 GeV, (E), 22:24879

RUBIDIUM ISOTOPES Rb-80

- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- energy level scheme, (E), 24:43212

RUBIDIUM ISOTOPES Rb-81

- beta and electron-capture decay of, γ spectra and half-life for, (E), 25:7832
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- content relative to metastable krypton-81 in tissues following intravenous injection, tissue perfusion blood flow studies using, 25:35167
- distribution in dogs following injection, development of model for simulation of effects of coronary flow rate on, 24:44412
- energy level scheme, (E), 24:43212
- energy levels from strontium-81 decay, (E), 24:3880 (JINR-E6-4658)
- energy levels from strontium-81 decay, spin-parity assignments for, (E), 25:17784
- gamma spectra, (E), 22:35283
- preparation for medical use by helium-3 bombardment of sodium bromide targets, 24:31347
- production in cyclotrons for use in medicine, 24:34472
- production of, 24:4303(R) (NYO-910-124)
- use as generator for krypton-81, 24:32091
- use for spleen scanning, 24:34462
- use of erythrocyte-incorporated, for scanning of human spleen, 23:9992
- use of erythrocyte-incorporated, in human spleen function studies, 23:9993

RUBIDIUM ISOTOPES Rb-82

- beta and electron-capture decay of ground-state and isomeric, γ spectra for, (E), 23:28273 (JINR-E6-4360)
- beta and electron-capture decay of, γ singles and coincidence spectra for, (E), 23:15415
- beta and electron-capture decay scheme of isomeric, γ spectra and log-ft values for, (E), 22:35283
- beta decay of isomeric, γ singles and coincidence spectra from, (E), 25:12507
- beta decay of, internal bremsstrahlung spectra for, (E), 23:44860
- beta decay of, internal bremsstrahlung spectra from, (E), 24:30738
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- decay of, gamma spectra and log ft value for, (E), 24:13325
- hyperfine structure and nuclear magnetic moment, (E), 21:23314 (BNL-994, pp 70-102)
- preparation of metastable, for medical use by helium-3 bombardment of sodium bromide targets, 24:31347
- production of isomeric, 24:4303(R) (NYO-910-124)
- use with positron camera for scintiscanning of heart and kidneys in dogs, 23:33770

RUBIDIUM ISOTOPES Rb-83

- distribution and retention in mice, effects of age and pregnancy on, 23:41199 (COO-119-239, pp 40-60)
- electron-capture decay of, branching ratios for, 21:38337
- electron-capture decay of, gamma spectra and electron-capture ratios from, (E/T), 25:25665 (NP-18692)
- electron-capture decay of, gamma spectrum from, (E), 21:42613(R) (NP-16992)
- electron-capture decay of, ratios for, (E), 25:12467
- energy level at 5 keV from strontium-83 decay, lifetime of, (E), 24:20272(R) (NP-18091)
- energy levels from beta decay of strontium-83, (E), 22:18200
- energy levels from strontium-83 decay, conversion coefficients and spin-parity assignments for, (E), 22:26960
- energy levels from strontium-83 decay, spin-parity assignments for, (E), 22:39623
- energy levels of, calculation using intermediate coupling model, (T), 25:46013
- energy-level transitions from strontium-83 decay, conversion coefficients and multipolarities of, (E), 22:27001
- gamma spectra, (E), 22:35283
- half life in man, effects of Duchenne muscular dystrophy on, 23:41198 (COO-119-239, pp 2-29)
- isomeric transition in, M2, (E), 22:26960
- preparation for use in laboratory generator for krypton-83m, 25:26320
- production in ORNL 86-in. Cyclotron for medical applications, 21:39129 (ORNL-4155)
- production of, development and testing of isotope generators for, 25:46593 (EUR-4619)
- uptake by muscles, research on mechanisms of, 23:41197 (COO-119-239)

RUBIDIUM ISOTOPES Rb-84

- beta and electron-capture decay of ground-state and isomeric, γ spectra and half-life for, (E), 23:52130
- beta and electron-capture decay of, branching ratios for, (T), 24:38182
- beta and electron-capture decay of, γ spectra from, (E), 24:20364
- beta and electron-capture decay of, K/β^+ ratio in nonunique first-forbidden, (E), 25:12466
- beta and electron-capture decay of, K-capture—positron-emission ratios for, (E/T), 25:25665 (NP-18692)
- beta and electron-decay of, branching ratios and half-life for, (E), 25:56697
- beta decay of, $2^- \to 2^+$ positon transitions in, (E/T), 25:14972
- beta decay of, $\beta^+ - \gamma$ angular correlations for, (E), 24:8908
- beta decay of, β-γ angular correlations and matrix elements for nonunique first-forbidden, (E), 25:56776
- beta decay of, matrix elements for first-forbidden, (T), 21:42680 (NP-16836)
- beta spectra from, shapes of nonunique and unique first-forbidden, 25:14976
- beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
- beta transitions in, β-γ directional correlations for anomalous first-forbidden, (E), 22:3740
- clearance from heart muscle, coincidence counting technique for measurement of, 22:12881
- content of heart muscle, in relation to coronary disease, 22:12881
- decay scheme of isomeric, from rubidium-85 (n,2n) reactions, (E), 24:22109
- electron-capture decay of, branching ratios for, 21:38337
- electron-capture decay of, comparison of experimental and theoretical L/K ratios for, (E/T), 22:22631
- electron-capture decay of, gamma spectra and electron-capture ratios from, (E/T), 25:25665 (NP-18692)
- electron-capture decay of, ratios for, (E), 25:12467
- energy level at 250 keV, half-life of, (E), 22:18237
- energy levels from strontium-86 $(d.\alpha)$ reactions, (E), 24:45772
- energy levels of, lifetime measurements using delayed coincidence method, (E), 22:32643
- energy-level transitions in, β—γ correlations for once-forbidden, (T), 24:30929
- gamma spectra of isomeric, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
- gamma spectra, (E), 22:35283
- isomeric transition in, multipolarity for, (E), 25:34079(R) (NP-18683)
- preparation of, new method for, 25:29413 (CONF-691225)
- production at ORNL for medical applications, 21:39129 (ORNL-4155)
- production by neutron irradiation of strontium targets, 21:28018
- production of, development of methods for, 24:20950(R) (ORNL-TM-2910)
- production technology at ORNL 86-in. cyclotron, 25:46527 (CONF-700646-, pp 4-7)
- use as tracer in determining direction and speed of ocean currents, 21:8481(T) (AEC-tr-6641, pp 170-1)
- use for evaluation of cardiac circulation in man, 24:14405
- use for scanning blood circulation in capillaries and heart of dogs, 23:50695
- yield from nuclear explosions, effects of, on radiation dose to man, 22:23511 (UCRL-70788)

RUBIDIUM ISOTOPES Rb-85

- alpha reactions $(\alpha,2n)$, $(\alpha,3n)$, $(\alpha,4n)$, and $(\alpha,\alpha n)$ at 15 to 54 MeV, excitation functions, isomer ratios, and mean recoil distances for, (E/T), 25:31239 (LYCEN-7091)
- alpha reactions $(\alpha,n\gamma)$ at 11.8 to 13 MeV, γ spectra from, (E), 25:38972(R) (COO-535-620)
- atomic g-factor measurement in, 22:38784
- deuteron reactions (d,p) at 12 MeV, angular distributions for, (E), 24:18385
- deuteron reactions (d,p) at 12 MeV, spectra and angular distributions for, (E), 23:42891
- effects on microwave spectra of rubidium hydroxide, 23:11513
- energy level at 150 keV, lifetime of, (E), 24:6879
- energy level at 514 keV from strontium-85 decay, half-life of, (E), 23:39985
- energy level transitions in, optical pumping effects on ground state, 23:3300
- energy levels from electron-capture decay of strontium-85, (E), 22:7674
- energy levels of, atomic beam resonance measurement of g factors for, 21:20779
- energy levels of, electronic g factors for, 22:9056
- energy levels of, g/sub I//g/sub J/ ratios for atomic, (E), 22:956
- energy levels of, hyperfine structure of Zeeman transition of ground state, (E/T), 21:13356
- energy-level transition probabilities for, l-forbidden M1, (T), 22:39708
- g-factor ratio for, nuclear and electronic, (E), 23:1165
- hyperfine structure and lifetime of 7 ^{2}P/sub 3/2/ state of, (E), 22:34284
- hyperfine structure of 7 $^2P(^1/_2)$ state of, 22:9066
- neutron activation cross section ratios for, isomeric thermal, (E/T), 21:29938
- neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
- neutron activation resonance integrals for, measured relative to gold-197, (E), 25:31300 (CNEA-282)
- neutron capture at 0.1 to 2 MeV, cross section for, (E), 22:37312 (ANL-7450, pp 105-7)
- neutron capture at 100 to 1500 keV, isomeric cross section for, (E), 24:1775 (ANL-7575, pp 170-6)
- neutron capture at 160 keV to 1.5 MeV, cross section for, (E), 24:49841
- neutron capture by, gamma spectra from thermal, (E), 23:42891
- neutron capture by, γ spectra and cross section for thermal, (E), 24:18385
- neutron capture by, γ spectra from thermal, (E), 23:28304 (WASH-1124)
- neutron capture by, γ spectra from, (E), 23:21309
- neutron capture by, Q-value for, (E), 22:45093 (COO-1618-9)
- neutron capture cross section and resonance integral for, thermal, (E), 22:9815
- neutron capture cross section at 0.005 to 3 MeV, (E), 22:32596
- neutron capture cross sections at 0.15 to 3 MeV, (E), 21:46683 (ANL-7325, pp 197-200)
- neutron capture cross sections at 5 keV to 3 MeV, 21:36073(R) (ANL-7350)
- neutron capture cross sections between 0.005 and 3 MeV, (E/T), 21:12231(R) (ANL-7267)
- neutron reactions (n,2n) at 12.6 to 19.6 MeV, excitation function and isomeric cross-section ratios for, (E), 22:42006
- neutron reactions (n,2n) at 14 MeV, gamma spectra from, (E), 24:22109
- neutron reactions (n,2n) at 14 MeV, isomeric cross section ratio for, (E), 23:52130
- neutron reactions (n,2n) at 14.4 MeV, activation cross section for, (E), 25:28282
- neutron reactions (n,2n) at 14.7 MeV, cross section for, (E), 21:2671
- neutron reactions (n,2n) at 14.7 MeV, isomeric cross-section ratio and spin-cutoff parameter for, (E), 22:50583
- neutron reactions (n,2n) at 14.8 MeV, activation cross sections for, (E), 24:38162
- neutron reactions (n,2n) at 14.8 MeV, cross section for, (E), 25:53743(R) (INR-1318)
- neutron reactions (n,2n) at 14.8 MeV, cross sections and gamma spectra from, (E), 25:59797
- neutron reactions (n,2n) at 3 MeV above threshold, effects of direct inelastic scattering on cross sections for, (E), 21:31743
- neutron reactions (n,α) at 13 to 19 MeV, cross sections for, (E), 21:7764
- neutron reactions (n,α) at 14.4 MeV, activation cross section for, (E), 25:28282
- neutron reactions (n,α) at 14.8 MeV, cross sections for, (E), 22:48499
- neutron reactions (n,α) at 15 MeV, absolute cross section for, (E), 23:5844
- neutron reactions (n,p) at 13 to 19 MeV, cross sections for, (E), 21:7764
- neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 25:28282
- neutron reactions (n,p) at 14.8 MeV, activation cross sections for, (E), 24:38162
- neutron reactions with, ratio of resonance integral to activation cross section for thermal, 24:1786
- neutron resonance parameters and average strength function from 176.6 eV to 17.17 keV, (E), 23:25851 (JINR-P3-4357)
- nuclear acoustic quadrupole resonance in rubidium iodides, 22:11530
- nuclear magnetic moment of ground state of, (T), 22:39708
- nuclear magnetic moment of, measurement using atomic-beam magnetic-resonance technique, (E), 22:18177
- nuclear magnetic resonance in, (E), 21:35034
- nuclear quadrupole moment, (E), 22:34284
- photon emission from positive ions of, following beta decay of krypton-85, measurement of, 24:11885
- photon reactions (γ,n) up to 45 MeV, isomeric cross section ratio for, (E), 23:52130
- proton reactions (p,n) at 2.3 to 5.6 MeV, excitation functions for, (E), 22:18159
- proton reactions (p,n) at 6 to 27 MeV, isomeric cross section ratio for, (E), 23:37139
- reactions between atoms of, cross sections for spin exchange in, (E), 23:41953
- reactions with rubidium-85 atoms, spin-exchange cross sections for, (E), 22:45963
- reactions with rubidium-85, EPR measurements of spin-exchange cross sections for, 22:31594 (COO-1112-159)
- separation from rubidium-87 by thermal diffusion in molten salts, 24:39028
- separation from rubidium-87, design of separation column for countercurrent electrolytic, 24:27198
- spectra of, atomic beam study of isotope shift relative to rubidium-87, 22:52506
- spectral studies on Knight shift for, in ratio with rubidium-87, 21:25196
- x-ray emission rates and fluorescence yields from strontium-85 electron-capture decay, K-, (E), 25:5650
- yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
- yields from fast fission of uranium-235 in fuel burnup, 22:42588(R) (IN-1207)
- yields from thermal fission of plutonium-241, 22:47074(R) (IN-1215)
- yields in thermal fission of uranium-233 and -235, absolute, (E), 22:24855(R) (IN-1157(Rev.))

RUBIDIUM ISOTOPES Rb-86

- beta and gamma decay energies from rubidium-85 neutron capture, total, (E), 22:45093 (COO-1618-9)
- beta decay of, β shape factor for, (E), 22:53105
- beta decay of, β—γ angular correlations for, (E), 23:25849 (CEA-R-3659)
- beta decay of, β—γ circular polarization correlation for, (E), 24:28740
- beta decay of, β—γ circular polarization correlations for, (E), 23:30993
- beta decay of, β-γ circular polarization and matrix elements for, (E), 24:38135 (COO-1746-42)
- beta decay of, β-γ circular polarization and matrix elements for, (E), 25:34037

beta decay of, circularly polarized β-γ angular correlation in, (E), 21:40396 (NP-16840)
beta decay of, CVC analysis of nuclear matrix elements for first-forbidden, (T), 25:39006
beta decay of, energy dependence of β—circularly polarized γ correlations from first-forbidden, (E), 23:15421
beta decay of, γ circular polarization and matrix elements for, (E), 24:43196
beta transitions in, β-γ directional correlations for anomalous first-forbidden, (E), 22:3740
content in plants grown on ejects from the Sedan thermonuclear cratering detonation, 21:26440
content of brain, kidneys, muscles, and salivary glands of rats following intraperitoneal injection, comparison of, 24:23094
content of plants, use of Cherenkov radiation for measuring, 24:7706
decay scheme of isomeric, from rubidium-87 (n,2n) reactions, (E), 24:22109
determination in biological materials, development of γ-spectrometer assembly for, 22:50934
determination in soil by neutron activation, 21:8746 (ORNL-4007, pp 43-119)
diffusion from isolated rabbit ciliary processes, effects of autonomic drugs and lithium on, 24:7726
diffusion in clay soils, effects of aluminum and hydrogen ions on, 23:40849
diffusion in compacted soils, effect of bulk density on, 21:12522
diffusion through capillary membranes in dogs, 22:25733
diffusion through isolated guinea pig heart tissue, effects of acetylcholine, atropine, carbachol, and diisopropylfluorophosphate on, 24:5987
distribution and retention in rats, effects of aldosterone, potassium, rubidium, and sulfonamides on, 23:6361
distribution and retention of, in soils in Colombia and Panama, tracer study of, 23:50467
distribution in denervated rat muscle, 21:22345
distribution in myocardial tissues in rats, effects of isoprenaline or necrosis on, 23:33596
distribution in plant parts and soil following injection into tropical rain forest trees, 23:50401 (PRNC-129, pp 1-86)
distribution in tissues in dogs, following intra-arterial injection, relation of capillary permeability to, 23:50301
distribution in tissues of animals following intravenous injection, 25:32335
distribution of, in plants, after foliar or root uptake, 21:9006(R) (EUR-3163.e)
electromigration of, in melted lithium, potassium, and sodium nitrates, 21:8254
electron-capture decay of, branching ratio for, (E), 22:13982
energy level scheme for, (E), 24:18385
energy levels from rubidium-85 (d,p) and (n,γ) and rubidium-87 (d,t) reactions, (E), 23:42891
energy levels from rubidium-85 neutron capture, (E), 23:21309
energy levels from rubidium-85 thermal neutron capture, (E), 23:28304 (WASH-1124)
energy levels from strontium-88 (d,α) reactions, (E), 24:45772
energy-level transitions in, β—γ correlations for once-forbidden, (T), 24:30929
fixation of, in tumors and muscles of rats, 21:10730(T) (UCRL-Trans-10035)
gamma spectra of, 23:33243
gamma spectra, (E), 22:35283
half life of isomeric, (E), 21:12062
half-life in two species of Heteroptera, 23:2784
half-life, (E), 25:20339
incorporation in particles for simulated fallout retention studies on agricultural plants, 25:21626 (ORNL-TM-2983, pp 4-26)
incorporation in particles for simulated fallout retention studies on fescue grass, 25:21627 (ORNL-TM-2983, pp 27-46)
incorporation in simulated fallout for plant retention studies, 25:21622 (ORNL-4634, pp 56-70)
isomeric transition in, conversion coefficients and multipolarity of, (E), 23:8968
isomeric transition in, multipolarity for, (E), 25:34079(R) (NP-18683)
leaching from foliage of plants, reaction mechanisms for, 21:28357
metabolism and tissue distribution following intake by man, 25:42467
metabolism by dogs, guinea pigs, mice, and rats, 22:12760(T) (UCRL-Trans-10175)
metabolism by guinea pigs, 22:12761(T) (UCRL-Trans-10179)
metabolism in animals, in comparison to potassium-43, 24:16966
metabolism in man, determination of, by double tracer technique, 22:36164
metabolism in mice, effects of age on, 21:20046
metabolism in rats, 23:16256 (NIRS-7, pp 83-97)
metabolism in rats following oral administration, 22:25762
metabolism in rough-skinned newts following injection, 24:39420(R) (RLO-2093-2)
neutron separation energy from rubidium-85 neutron capture, (E), 23:21309
nuclear spin and parity of isomeric, (E), 23:8968
performance as tracer for exchangeable potassium in soils, 21:39047
permeability of Streptococcus faecalis to, effects of antibiotics on, 21:39335
production in (n,α) and (n,p) reactions with fast neutrons, cross sections for, (E), 25:36686 (CONF-680986-1)
radiation effects on metabolism of, in rats, x, 22:51483
radiation effects on uptake of, by lens of rabbit eyes, β and x, 23:29752
radiation protection standards for, interspecies correlations for, 23:14193
ranges in aluminum from thermal neutron fission of uranium-233 and -235, (E), 24:3925
ranges in aluminum from thermal neutron fission of uranium-233 and uranium-235, (E), 21:1080 (TID-23365)
release by erythrocytes following damage by antibody and complement, statistical analysis of, 23:50261
release from sheep erythrocytes in vitro following treatment with EDTA combined with rabbit antibody and guinea pig complement, 23:50383
retention by Panamanian clays, measurement of, 23:43411
retention by rats, effects of drugs, potassium, and rubidium on, 24:5983
retention in clays of Panama, 24:2595 (BMI-171-28)
retention in intestines of beagle dogs, 25:24028
retention of injected, by cows and milk, comparison of, with cesium and potassium retention, 21:26409(R) (COO-1171-62)
retention of, following administration of double tracer, equation for whole-body, 21:39342
retranslocation to new leaf growth in bush beans, 23:26712 (UCLA-12-706, pp 73-90)
separation from cesium-134, focusing ion exchange, 22:45169
sorption by Panamanian soil clays, 24:14061
sorption by roots of rice plants, effects of low temperature on, 22:40551
sorption in atrial tissues of guinea pigs, 23:24562
testing of, produced in Japan, application, 25:41990 (JAERI-13617)
transfer from old to new growth in bush beans, 23:20102
transfer into fetus through placenta from maternal blood, 25:32338
transfer of, by plant roots, 21:22304
translocation in bush bean plants, effects of monovalent cation carriers on, 24:41753
translocation in plants in relation to food chain availability, pathways for, 25:37742 (A/CONF.49/P-85)
transport in left atrium of heart of dogs, relation of myocardial blood flow to, 21:32573
transport into bush bean plants, effects of monovalent ion carriers on, 23:26712 (UCLA-12-706, pp 73-90)
transport of, in rabbit gall bladder, 21:12759
uptake and retention in rough-skinned newts, 24:39420(R) (RLO-2093-2)
uptake by bean plants, effects of availability of nutrient calcium and nitrates and root temperature on, 25:4477 (UCLA-12-782, pp 49-81)
uptake by bush bean plants, 22:25800 (UCLA-12-668, pp 37-58)
uptake by bush bean plants, effects of monovalent cation carriers on, 24:41753
uptake by corn root segments, effects of potassium chloride on, 22:33775
uptake by erythrocytes of man with benign and malignant lung diseases, 22:40546
uptake by frogs and lizards from labeled trees, 25:42317(R) (PRNC-147)
uptake by human erythrocytes in relation to presence of gynecologic cancer, 23:35808
uptake by human erythrocytes in vitro, standardization of technique for measurement of, 23:9881
uptake by leaves of bean plants, 25:16089(R) (EUR-4545)
uptake by marine algae, 23:12044 (PRNC-60)
uptake by roots of rice and sorghum and exchange with potassium, effects of inhibitors and low temperature on, 23:41222
uptake by roots of rice, effects of metabolism and zone of root on, 23:47923(T) (NSJ-tr-153)
uptake by thyroid of rats, effects of thyrotropic hormone on, 23:35607
uptake by tissues of Phragmites communis, measurement of, 23:22197
uptake of, by corn seedlings, 21:6431
uptake of, by dog kidney, effect of cesium-134 contamination on, 21:3391
uptake of, by roots of St. Augustine grass, effects of moisture on, 21:22304
use as tracer for determining growth pattern of roots of crop plants, 25:51966 (A/CONF.49/P-506)
use as tracer for determining potassium uptake by barley roots, 24:31826
use as tracer for determining relation of aphids to host plant, 24:31827
use as tracer for potassium in erythrocyte transport study, 24:29629
use as tracer in determining direction and speed of ocean currents, 21:8481(T) (AEC-tr-6641, pp 170-1)
use as tracer to determine distribution and performance of barley root systems in soil, 22:23471
use as tracer to determine rates of food consumption by Chrysochus auratus in natural environment, 23:7974
use for heart scanning in dogs and man, 24:9888
use for labeling erythrocytes for measuring coronary blood flow of human heart, 25:32318
use for measurement of blood circulation in bones, review of, 23:20275
use for measurement of blood circulation in muscle capillaries of dogs, 22:25733
use for measuring circulation in mucosa and muscle layer of small intestine in x-irradiated rats, 23:33862
use for measuring coronary collateral blood flow in dogs, 24:6095
use for scanning blood circulation in heart, 22:25952
use for scanning heart for function, 25:52130 (A/CONF.49/P-631)
use for study of effects of antibiotics on cation permeability of Streptococcus faecalis, 21:39335
use in combination with technetium-99m to measure coronary blood flow, 25:49230
use in myocardial scanning in dogs, collimator for, 21:10998
use in radiography for measuring coronary blood flow, 25:35085
use of human serum albumin-incorporated, for measurement of cardiac output and coronary blood flow in man, 21:28406
use of, as tracer for visualization of blood circulation in heart by scanning technique, 21:8844 (COO-78-142, pp 138-41)
use of, for measuring renal blood flow by external scintillation counting, 21:6593
use of, in pediatric urology, evaluation of, 21:6584
uses in tracer studies on cation transport kinetics through cell membranes, 25:49073(P)
yield in californium-252 spontaneous fission, (E), 24:6932

RUBIDIUM ISOTOPES Rb-87
abundance in Apollo 11 samples, (E), 24:30129
abundance in carbonaceous chondrites, (E), 24:17409
abundance in Norton County achondrite, (E), 22:13166
abundance relative to strontium-86 in rocks in Absaroka Volcanic Field, Wyoming, 24:46352
alpha inelastic scattering at 42 MeV, angular distributions for, (E), 24:10948
alpha reactions (α,nγ) at 11.8 to 13 MeV, γ spectra from, (E), 25:38972(R) (COO-535-620)
atomic g-factor measurement in, 22:38784
beta decay of, calculations using single-particle shell model and conserved vector current theory for third-forbidden, (T), 23:17091
concentration by countercurrent electrolysis of rubidium acetate, 21:40920
concentration by countercurrent electromigration of fused rubidium nitrate, 22:33532
concentration of, in molten salt electrolysis, 21:14301
content in middle Precambrian rocks of Minnesota, 21:8434
content in processed milk in US, 22:10378
content in sea water, measurement of, 21:8478(T) (AEC-tr-6641, pp 192-3)
content in silicate inclusions in iron meteorites, age estimation from, 21:45245
content of man in Finland from natural sources, 25:18931 (NYO-3446-14, Paper 30)
content ratio to strontium-86 in plutonic igneous rocks in Antartica, 22:175
content ratio to strontium-86 in sulfide ores, 22:50935
content ratio to strontium-86 in Wind River, Wyoming igneous plutons, 25:10701
decay constant of, effects on analysis of geochronometric data, 25:21179
decay rate constancy of, 24:44109
determination by radiometric method, 25:46443
determination in iron meteorites, (E), 22:21797
determination of abundance of, relative to strontium-86 in eclogite, garnet peridotite, and kimberlite from Roberts Victor mine, South Africa, 25:20910
deuteron elastic scattering at 4 to 6 MeV, angular distributions for, (E), 25:48056
deuteron reactions (d,p) at 11 MeV, (E), 25:7847 (ORNL-4513)
deuteron reactions (d,p) at 11 MeV, Q-value and angular distributions for, (E), 25:45982
deuteron reactions (d,p) at 4 to 6 MeV, DWBA analysis of, (E), 25:48056
deuteron reactions (d,t) at 12 MeV, angular distributions for, (E), 24:18385
deuteron reactions (d,t) at 12 MeV, triton spectra from, (E), 23:42891
distribution in environment of man, review of, 21:26391
effects on microwave spectra of rubidium hydroxide, 23:11513
energy level lifetime of, first excited atomic, 22:5073
energy level scheme from krypton-87 decay, (E), 25:56703
energy level transitions of, line width dependence of 6834-Mc hyperfine, (E), 21:23314 (BNL-994, pp 70-102)
energy levels and nuclear properties of, Nuclear Data Sheets for, (E), 25:36706
energy levels from alpha elastic and inelastic scattering at 42 MeV, spins and parities of, (E), 21:40429(R) (RLO-1388-23)
energy levels from α inelastic scattering and (d,He-3) reactions, spectroscopic factors for, (E), 24:10948
energy levels from decay of krypton-87, (E), 23:17099
energy levels from krypton-86 proton resonances, spin-parity assignments for isobaric analog, (E), 24:43294
energy levels from krypton-86 proton scattering, isobaric analog, (E), 23:19253(R) (ORO-2972-80)
energy levels from krypton-87 beta decay, (E), 22:13988
energy levels from krypton-87 decay, (E), 23:15397
energy levels from krypton-87 decay, spin—parity assignments for, (E), 25:12485
energy levels from krypton-87 decay, spin-parity assignments for, (E), 24:5413
energy levels from strontium-88 (d,He-3) reactions at 21 MeV, (E), 21:44629
energy levels of, atomic beam resonance measurement of g factors for, 21:20779
energy levels of, calculations using independent quasi particle model, (T), 22:1734
energy levels of, calculations using shell model, (T), 21:46831
energy levels of, electronic g factors for, 22:9056
energy levels of, g/sub I//g/sub J/ ratios for atomic, (E), 22:956
energy levels of, hyperfine structure of Zeeman transition of ground state, (E/T), 21:13356
energy-level transition probabilities for, l-forbidden M1, (T), 22:39708
g-factor ratio for, nuclear and electronic, (E), 23:1165
half-life, (E), 21:5519
hyperfine structure and lifetime of 7 ^{2}P/sub 3/2/ state of, (E), 22:34284
hyperfine structure of, atomic beam study of, 22:52506

neutrino reactions with, use in solar neutrino spectroscopy, 23:41064
neutron activation cross sections at 14.4 MeV, tables of, (E), 22:22589 (ORO-3346-18)
neutron capture at 0.15 to 7 MeV, cross sections for, (E), 21:4270
neutron capture at 10 to 350 keV, cross-section calculations and measurements for, (E/T), 24:10973
neutron capture at 100 to 1700 keV, cross section for, (E), 24:1775 (ANL-7575, pp 170-6)
neutron capture at 160 keV to 1.5 MeV, cross section for, (E), 24:49841
neutron capture at 2.9 MeV, cross section for, (E), 25:46070
neutron capture at 24 keV, activation cross section and average level spacing for, (E/T), 23:8969
neutron capture by, Q-value for, (E), 22:45093 (COO-1618-9)
neutron capture cross section for, fast, (E), 22:27086 (ANL-7375, pp 176-7)
neutron capture cross sections at 0.15 to 1.4 MeV, (E/T), 22:3648
neutron reactions (n,2n) at 14 MeV, gamma spectra from, (E), 24:22109
neutron reactions (n,2n) at 14.05 and 14.7 MeV, cross sections for, (E), 21:2671
neutron reactions (n,2n) at 14.4 MeV, activation cross section for, (E), 25:28282
neutron reactions (n,2n) at 14.7 MeV, isomeric cross-section ratio and spin-cutoff parameter for, (E), 22:50583
neutron reactions (n,2n) at 14.8 MeV, activation cross sections for, (E), 24:38162
neutron reactions (n,2n) at 14.8 MeV, cross section for, (E), 25:53743(R) (INR-1318)
neutron reactions (n,2n) at 14.8 MeV, cross sections and gamma spectra from, (E), 25:59797
neutron reactions (n,2n) at 3 MeV above threshold, effects of direct inelastic scattering on cross sections for, (E), 21:31743
neutron reactions (n,2p) at 14.6 MeV, cross section for, (E), 25:7828
neutron reactions (n,α) at 14.4 MeV, activation cross section for, (E), 25:28282
neutron reactions (n,α) at 14.8 MeV, cross sections for, (E), 22:48499
neutron reactions (n,α) at 15 MeV, absolute cross section for, (E), 23:5844
neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 25:28282
neutron reactions (n,p) at 14.8 MeV, activation cross sections for, (E), 24:38162
neutron resonance parameters and average strength function from 269.5 eV to 23.47 keV, (E), 23:25851 (JINR-P3-4357)
nuclear acoustic quadrupole resonance in rubidium iodides, 22:11530
nuclear g-factors and magnetic moments from NMR measurements, (E), 22:5779
nuclear magnetic dipole moment of, measurement using atomic-beam magnetic-resonance technique, (E), 22:16054 (BMwF-FBK-67-80)
nuclear magnetic moment of ground state of, (T), 22:39708
nuclear magnetic moment of, from Larmor precession frequency, (E), 23:1832
nuclear magnetic resonance and spin density of, in rubidium trifluorocobaltate, (E), 22:26517
nuclear magnetic resonance in aqueous solutions of, (E), 23:1832
nuclear magnetic resonance in rubidium trifluorocobaltates, (E), 22:34774
nuclear quadrupole moment, (E), 22:34284
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)
properties as optical pumping clock, 21:30753
proton reactions (p,γ) at 4 to 15 MeV, yield curves for, (E), 24:6852
proton reactions (p,n) at 2.3 to 5.6 MeV, excitation functions for, (E), 22:18159
proton reactions (p,n) at 4.6 to 6.2 MeV, isobaric analog resonances in, (E), 22:15978
reactions between atoms of, cross sections for spin exchange in, (E), 23:41953
reactions with cesium-133 and rubidium-87 at 78°C, spin-exchange cross sections for, 21:11450
reactions with rubidium-87 atoms, spin-exchange cross sections for, (E), 22:45963
reactions with rubidium-87, EPR measurements of spin-exchange cross sections for, 22:31594 (COO-1112-159)
separation from rubidium-85 by thermal diffusion in molten salts, 24:39028
separation from rubidium-85, design of separation column for countercurrent electrolytic, 24:27198
separation from seawater by cation exchange, 21:36614
spectra of, atomic beam study of isotope shift relative to rubidium-85, 22:52506
spectral studies on Knight shift for, in ratio with rubidium-85, 21:25196
use as standard in nuclear metrology, 25:54901
use of optically oriented, in measurement of small magnetic fields, 24:29599
yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
yields from fast fission of uranium-235 in fuel burnup, 22:42588(R) (IN-1207)
yields from thermal fission of plutonium-241, 22:47074(R) (IN-1215)
yields in thermal fission of uranium-233 and -235, absolute, (E), 22:24855(R) (IN-1157(Rev.))

RUBIDIUM ISOTOPES Rb-88
beta and gamma decay energies from rubidium-87 neutron capture, total, (E), 22:45093 (COO-1618-9)
beta decay of, β and γ singles and coincidence spectra for, (E), 23:15397
beta decay of, calculation using particle-hole model of strontium-88 3$^-$ wave function, (T), 25:7833
beta decay of, γ singles and coincidence spectra and half-life for, (E), 23:15416
beta decay of, half-life and γ singles and coincidence spectra and angular correlations for, (E), 24:5411
beta decay of, shell-model analysis of first-forbidden unique, (T), 25:31284
beta decay of, strontium-88 energy levels from, (E), 22:29983 (MIT-905-108, pp 1-32)
beta decay scheme of, branching ratios and log-ft values for, (E), 22:26942
beta transitions in, β-γ correlation study of first-forbidden, (E), 22:15973
decay of, gamma spectra for, (E), 25:17786
decay of, strontium-88 energy-level spins and transitions from γ-γ angular correlation measurements, 21:15541
determination of, in atmosphere after underground weapon tests, 21:2935 (LA-3420)
energy levels and transitions from decay and nuclear-reaction measurements, Nuclear Data Sheets compilation of properties of, (E), 25:36705
energy levels from krypton-88 decay, (E), 24:26602
energy levels from krypton-88 decay, (E), 23:15397
energy levels from rubidium-87 (d,p) reactions, (E), 25:7847 (ORNL-4513)
energy levels from rubidium-87 (d,p) reactions, spectroscopic factors for, (E), 25:48056
energy levels from rubidium-89 (d,p) reactions, spectroscopic factors and spin—parity assignments for, (E), 25:45982
formation of fission-product, following high-altitude nuclear detonation, 21:25048
monitoring in Humboldt Bay Power Reactor environs during operation and post startup, 24:29389 (CEX-67.6.2)
nuclear magnetic moment and hyperfine structure constants for, (E), 22:27233
nuclear magnetic moments from hyperfine structure interactions constants, (E), 21:33967 (UCRL-17472)
nuclear spin, hyperfine-structure separation, and magnetic moment of, (E), 22:15971
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)

RUBIDIUM ISOTOPES Rb-89
beta decay of, ft values for allowed Gamow—Teller, (T), 23:19254(R) (ORO-3624-7)
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
beta decay of, strontium-89 energy levels from, (E), 21:11994
determination in fission products in LOFT-ECCS samples by gamma spectrometry, 23:10 (IN-1203, pp 69-101)
energy levels and transitions from decay and nuclear-reaction measurements, Nuclear Data Sheets compilation of properties of, (E), 25:36714
energy levels from krypton-89 decay, (E), 21:27555
gamma spectra from fission-product, (E), 25:38920 (CEA-N-1444)
half-life, (E), 23:19219
monitoring in Humboldt Bay Power Reactor environs during operation and post startup, 24:29389 (CEX-67.6.2)
production by 15-MeV alpha reaction (α,n) with krypton-86, 22:4207
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)
yields from fast fission of plutonium, (E), 25:17899

RUBIDIUM ISOTOPES Rb-90
beta decay of normal and isomeric, β and γ spectra for, (E), 22:27168
beta decay of, β and γ singles and coincidence spectra from, (E), 25:20384
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
beta decay of, Q value for, (E), 25:28296 (CERN-70-30(Vol.1), pp 341-51)
energy levels and transitions from decay and nuclear-reaction measurements, Nuclear Data Sheets compilation of properties of, (E), 25:36801
energy levels from krypton-90 decay, (E), 24:43365
energy levels from krypton-90 decay, (E), 25:20384
half-life, (E), 21:21539
half-life, (E), 23:19219
half-life, (E), 22:27168
nuclear spin of normal and isomeric, 22:27168
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)
yields from fast fission of plutonium, (E), 25:17899

RUBIDIUM ISOTOPES Rb-91
beta decay of, β and γ spectra for, (E), 22:22601
beta decay of, γ singles and β—ce delayed coincidence spectra from, (E), 24:26659
beta decay of, γ spectra from, (E), 25:20459
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
decay studies of fission-product, (E), 22:30030
energy levels from krypton-91 decay, (E), 25:20459
energy levels from krypton-91 decay, (E), 24:43365
energy levels of, spin and parity of, (E), 25:12462
half-life, (E), 21:21539
half-life, (E), 22:27168
half-life, (E), 23:19219
neutron emission in thermal neutron fission of uranium-235, half-live and probability for, (E), 23:25914
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)

RUBIDIUM ISOTOPES Rb-92
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
half-life, (E), 21:21539
half-life, (E), 22:27168
half-life, (E), 23:19219
neutron emission in thermal neutron fission of uranium-235, half-live and probability for, (E), 23:25914
neutron emission probability for, (E/T), 22:29994
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)
separation from fission product decay chains using moving tape collector, 22:49023 (IS-1893)

RUBIDIUM ISOTOPES Rb-93
beta decay of, emission probabilities and spectra of delayed neutrons from, (T), 25:34078(T) (LB/G-2943)
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
delayed neutron emission probability and yield for, from uranium-235 thermal neutron fission, (E), 24:18406 (CONF-680461-6)
gamma spectra, (T), 22:7706
half-life, (E), 21:21539
half-life, (E), 22:27168
half-life, (E), 23:19219
neutron emission in thermal neutron fission of uranium-235, half-live and probability for, (E), 23:25914
neutron emission probability for, (E/T), 22:29994
neutron emission probability for, delayed, (E), 23:17111
neutron yields from fission-product, delayed, (E), 24:30769
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)

RUBIDIUM ISOTOPES Rb-94
beta decay of, emission probabilities and spectra of delayed neutrons from, (T), 25:34078(T) (LB/G-2943)
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
delayed neutron emission probability and yield for, from uranium-235 thermal neutron fission, (E), 24:18406 (CONF-680461-6)
gamma spectra, (T), 22:7706
half-life, (E), 21:21539
half-life, (E), 22:27168
neutron emission probability for, (E/T), 22:29994
neutron emission probability for, delayed, (E), 23:17111
production by plutonium-239 fission, decay, growth, and release curves for, 23:47664 (UCRL-50656)

RUBIDIUM ISOTOPES Rb-95
beta decay of, emission probabilities and spectra of delayed neutrons from, (T), 25:34078(T) (LB/G-2943)
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
content in fallout particles, calculation of, 21:28098 (GA-7598)
half-life, (E), 21:21539
half-life, (E), 22:27168
neutron emission probability for, delayed, (E), 23:17111

RUBIDIUM ISOTOPES Rb-96
beta decay of, emission probabilities and spectra of delayed neutrons from, (T), 25:34078(T) (LB/G-2943)
beta decay of, half-life for, (E), 25:28388
beta decay of, Q value for, (E), 25:28294 (CERN-70-30(Vol.1), pp 321-9)
half-life, (E), 22:27168
neutron emission probability for, delayed, (E), 23:17111

RUBIDIUM ISOTOPES Rb-97
beta decay of, half-life for, (E), 25:28388
half-life, (E), 23:17111

RUBIDIUM ISOTOPES Rb-98
beta decay of, half-life for, (E), 25:28388

RUBIDIUM ISOTOPES Rb-99
beta decay of, half-life for, (E), 25:28388

RUBIDIUM LEAD URANIUM OXYFLUORIDES
crystal structure of, 24:41284
preparation and properties of, 23:28814
properties of, magnetic and spectroscopic, 24:41284

RUBIDIUM MANGANESE CHLORIDES
antiferromagnetic structure of, 21:21052(R) (N-67-13103)

RUBIDIUM MANGANESE FLUORIDES
dielectric properties of, at high temperatures, 21:24834 (NP-16700)
effects on surface oxidation of niobium, tantalum, and tungsten, 23:41551
electron resonance studies of critical fluctuations in, (E/T), 22:24412 (UCRL-18119)
fluorine-19 nuclear acoustic resonance in antiferromagnetic, detection of, (E), 22:17749
magnetic phase transition in, sound propagation near, 25:5186
neutron inelastic magnetic scattering near the Neel point, (E), 22:24818
neutron inelastic scattering from, comparison of dynamic scaling predictions with critical, 24:24167
neutron scattering on polycrystalline, energy distribution from, (T), 21:7361
nuclear magnetic resonance in, measurement of, (E), 22:17749
spin fluctuations in antiferromagnetic, neutron inelastic scattering study of dynamic, 25:14471
spin waves in, excitation by parallel pumping of nuclear and electronic, (E), 22:17759
spin waves in, parallel pumping of electronic and nuclear, (T), 22:11556
spin-wave relaxation rates in, between 2.4 and 10.5°K, electronic and nuclear, (E), 22:48149(R) (COO-1488-13)
ultrasonic attenuation in, effects of magnetic phase transition on, 25:25254

RUBIDIUM NEPTUNATES
preparation and properties of Rb_3NpO_5, 25:51431

RUBIDIUM NEPTUNIUM FLUORIDES
crystal structure, 22:85
crystal structure, 21:3038
crystal structure of $Rb_7Np_6F_{31}$, 22:2080

RUBIDIUM NICKEL FLUORIDES
fluorine-19 NMR line shift in, temperature dependence of, (E), 22:1321

RUBIDIUM NIOBATES
dissociation of meta-, effects of tantalum on vacuum-thermal, 21:13266

RUBIDIUM NITRATES
see also Rubidium Uranyl Nitrates
effects as salting out agent on separation of trivalent rare earth elements, 24:41389 (IAE-1904)

  electromigration of, cesium-134, potassium-42, rubidium-86, and sodium-22 in melts of, 21:8254
  radiation effects on, production of carrier-free strontium-85 by deuteron, 25:23634
  radiolysis of, yields from proton, 21:30467
  radiolysis of, yields in electron, 22:16589
  rubidium-87 concentration in fused, by countercurrent electromigration, 22:33532
  AgNO$_3$—RbNO$_3$, electric conductivity of, at 180 to 340°C, 22:27619 (CEA-N-816, pp 90-101)
  H$_2$O—RbNO$_3$—UO$_2$(NO$_3$)$_2$, complex formation in, 21:10338
RUBIDIUM OXALATES
  complexes with tantalum oxides, properties and structure of, 24:41250
RUBIDIUM OXIDES
  electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  magnetic susceptibility of RbO$_2$ at 1.3 to 250°K, 23:213 (IS-1900, Paper 3)
  reactions of, with protactinium oxides, solid-state, 21:8314
  thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
  Rb$_2$O—U$_2$O$_5$, compound formation and structure in, 22:12316
  Rb$_2$O—U$_2$O$_5$, magnetic properties of, 22:12318
  Rb$_2$O—Y$_2$O$_3$, analysis for yttrium by x-ray fluorescence, 24:11440
RUBIDIUM PERCHLORATES
  radiolysis of crystalline, effects of additives on yields from proton and γ, 25:54638
  radiolysis of, proton, 21:12463
RUBIDIUM PERMANGANATES
  radiation effects on thermal decomposition induction period in, 25:15644
  radiation effects on, effects of cation and background γ radiation on thermal annealing of recoil manganese-54 and manganese-56 yields from neutron, 24:29327
  radiation effects on, effects of cation on thermal annealing of recoil manganese-56 yields from neutron, 23:40718
RUBIDIUM PHOSPHATES
  polymers, radiation effects on polymerization of glasses of, ESR studies on, 22:4180
RUBIDIUM PLUTONIUM FLUORIDES
  crystal structure, 22:85
  crystal structure, 21:3038
  crystal structure of Rb$_7$Pu$_6$F$_{31}$, 22:2080
RUBIDIUM PROTACTINIUM FLUORIDES
  crystal structure of Rb$_7$Pa$_6$F$_{31}$, 22:2080
  crystal structure of RbPaF$_6$, 23:45275
  crystal structure of RbPaF$_6$, 21:45089 (ORNL-4164, pp 101-44)
  preparation and crystal structure of, 21:15906
  preparation and structure of, 21:8306
  spectra of, in hydrofluoric acid, Raman and absorption, 21:8319
RUBIDIUM STRONTIUM FLUOROURANATES
  spectra of, reflectance, 23:33202
RUBIDIUM STRONTIUM URANIUM OXYFLUORIDES
  preparation and properties of, 23:28814
RUBIDIUM SULFATES
  decomposition and high-temperature properties of, 22:4068 (NSRDS-NBS-7)
  effects on yields in radiolysis of aqueous solutions, 22:23034 (IA-1128, pp 78-96)
  vaporization of, thermodynamics of, 25:26128 (SRIA-106-78)
RUBIDIUM TELLURATES
  effects on isomeric conversion of metastable tellurium-127, 23:371
RUBIDIUM THORIUM FLUORIDES
  crystal structure, 25:57298 (ORNL-4676, pp 73-138)
  crystal structure of Rb$_7$Th$_6$F$_{31}$, 22:2080
RUBIDIUM THORIUM FORMATES
  preparation and properties of, 22:33322
  spectra of, ir, 22:37764
RUBIDIUM THORIUM NITRATES
  structure of crystalline hydrates of, ir spectral studies on, 22:12300
RUBIDIUM THORIUM PHOSPHATES
  crystal structure of, 23:142
  preparation of, 23:142
RUBIDIUM THORIUM SULFATES
  thermal decomposition of, thermogravimetric studies on, 21:5853
RUBIDIUM THORIUM THIOCYANATES
  spectra of solid and solutions of, ir, 23:33203
  spectra of, ir, 23:33203
RUBIDIUM TRIFLUOROCOBALTATES
  hyperfine interactions and spin-density space oscillations in cubic, (E), 22:26517
  spin density at cobalt, fluorine, and rubidium nuclei, determination using NMR, 22:34774
RUBIDIUM TUNGSTATES
  bronze see Rubidium Tungsten Bronze
RUBIDIUM TUNGSTEN BRONZE
  analysis by activation methods, 21:35844 (IS-T-156)
  analysis of, for rubidium by activation methods, 21:2979
  superconducting transition temperature of, 24:32791
  superconducting transition temperature of acid-etched, 21:27090
RUBIDIUM URANATES
  lattice vibrations of Rb$_2$UO$_4$, uranium—oxygen, 24:46233
  spectra of, reflectance, 23:33202
RUBIDIUM URANIUM CHLORIDES
  preparation of, 23:6111
  spectra of Rb$_2$UO$_2$Cl$_4$.2H$_2$O crystals, polarized-infrared, 25:45588
  spectra of RbUCl$_6$, ESR and ir, 24:9338
RUBIDIUM URANIUM FLUORIDES
  crystal structure, 22:85
  crystal structure of Rb$_2$UF$_6$, 25:40801
  crystal structure of Rb$_7$U$_6$F$_{31}$, 22:2080
  luminescence at 77°K, 24:38866
  magnetic susceptibility of Rb$_3$UF$_8$ at 8 to 300°K, (E/T), 25:47676
  magnetic susceptibility of Rb$_3$UF$_8$, (E/T), 24:1483 (CEA-R-3859)
  preparation and structure of, 21:8306
  spectra of RbUF$_6$, paramagnetic resonance, 22:18769
RUBIDIUM URANIUM SULFATES
  magnetic moments of hydrated, 23:185
  preparation of hydrated, 23:185
  spectra of hydrated, ir and reflectance, 23:185
RUBIDIUM URANIUM THIOCYANATES
  spectra of solid and solutions of, ir, 23:33203
  spectra of, ir, 23:33203
RUBIDIUM URANIUM TUNGSTATES
  preparation and properties of, 25:23556
RUBIDIUM URANYL BROMIDES
  spectra of, ir, 22:2042
RUBIDIUM URANYL CHLORIDES
  bonding and interactions in, ir spectral studies on, 22:12299
  spectra of diuranyl ion in hydrated, fluorescence and ir, 24:4284
  spectra of, infrared, 21:1337
  spectra of, ir, 22:2042
  stability of, effects of temperature on, 21:1337
RUBIDIUM URANYL FLUORIDES
  preparation and crystal structure of, 23:6103
  spectra of, infrared, 25:31948
  spectra of, infrared, 25:31950
  spectra of, ir, 23:6101
  structures of RbUO$_2$(OH)$_2$F.1.5H$_2$O and Rb$_3$(UO$_2$)$_2$(OH)$_4$F$_3$.1.5H$_2$O, 22:45083
  thermal decomposition of, formed in rubidium fluoride—uranyl fluoride—water system, 23:21715
RUBIDIUM URANYL NITRATES
  binding energy of oxygen—uranium bond in, valence oscillations for measurement of, 23:35069
  cation—anion bonds in, luminescence studies on, 25:46494
  coating single crystals of, with fissile isotopes, 25:29034 (AERE-R-6141)
  crystal growth and structure of RbUO$_2$(NO$_3$)$_3$, 25:54579
  crystal structure of, x-ray diffraction studies of, 22:18738(R) (MLM-1417)
  luminescence spectra of uniaxial and biaxial crystals of, energy level transitions in, (E/T), 25:7486
  polarization diagram of uniaxial crystals of, 25:46495
  preparation of single crystals of, 25:29034 (AERE-R-6141)
  preparation of single crystals of, 22:25440(R) (MLM-1443)
  spectra of crystals of, absorption, 24:4263(T) (UCRL-Trans-10394)
  spectra of single crystals of, NMR, 23:47430
  spectra of, fine structure in absorption, 24:31314
  spectra of, fine structure in luminescence, 22:16549
  spectra of, ir and Raman, 23:21684
  spectra of, ir and Raman, 25:2212
  symmetry types of uniaxial and biaxial crystals of, 25:58703
  uranium-233 deposition of surface of single crystal of, 22:25440(R) (MLM-1443)
RUBIDIUM URANYL OXALATES
  complexes with urea, properties and structure of, 21:42944
  preparation and properties of, 24:16497
RUBIDIUM URANYL PROPIONATES
  optical activity of crystals of, dispersion of, 24:27054
RUBIDIUM ZIRCONIUM FLUORIDES
  crystal structure, 25:57298 (ORNL-4676, pp 73-138)
RUBIDIUM ZIRCONIUM PHOSPHATES
  crystal structure of, 23:142
  preparation of, 23:142
RUBIES
  analysis for trace amounts of elements by spark source mass spectrometry, 25:10455
  chromium distribution in laser, neutron-activation method for determination of, 21:37606
  chromium-ion relaxation in x-irradiated, (T), 24:28409
  crystal growth and purity of single-crystal, prepared by electron-beam float-zone technique, 22:52289
  radiation effects on absorption and photoelectron emission spectra of crystals of, x-, 25:36308
  radiation effects on chromium ions in, EPR study of annealing kinetics of x-, (E), 25:3195
  radiation effects on crystals of, absorption spectral study of 2-MeV electron, 25:40140 (N-71-13982)
  radiation effects on synthetic, γ and neutron, 23:44532
  radiation effects on, acoustic paramagnetic resonance study of x-, 25:25219
  radiation effects on, alpha and gamma, 22:20095
  radiation effects on, electron, gamma, and proton, 21:14921(R) (N-66-39911)
  radiation effects on, EPR study of chromium(III) recovery in annealing of x-, 25:22599 (N-71-11888)
  radioinduced acoustic paramagnetic resonance spectra in crystals of, effects of electric field on x-, (E/T), 24:42769
  radioinduced electric conductivity in, gamma, (E), 22:13553
  radioinduced fluorescence of, decay rate and intensity of electron, (E), 21:18837
  radioinduced luminescence in, x-ray, (E), 22:11507
  spectra of, far-infrared, 22:39970 (UCRL-18229)
  thermoluminescent properties of, 21:32489
  use in fluorescence dosimetry, 22:43112
  use in thermoluminescence dosimetry, 23:7810 (CONF-680920-, pp 82-6)
Rubrene
    see Naphthacene, 5,6,11,12-Tetraphenyl-
Rufigallic Acid
    see Anthraquinone, 1,2,3,5,6,7-Hexahydroxy-
Rulison Project
    see Plowshare Project
RUPTURE
    see also Thermal Rupture
  analysis of brittle material fracture-type, statistical, 23:38919 (UCRL-50622)
  analysis of creep and stress, least squares method for, 22:270 (GEMP-555)
  book: Creep-Rupture Data for the Refractory Metals to High Temperatures, 25:29868
  book: Design for Strength and Production, 24:44183
  book: Fracture of Structural Materials, 22:4791
  book: Fracture. An Advanced Treatise, Volume III. Engineering Fundamentals and Environmental Effects, 25:27170
  book: Proceedings of the First International Conference on Fracture, Vol. 1, 21:14843
  book: Proceedings of the First International Conference on Fracture, Vol. 3, 21:14846
  book: Proceedings of the First International Conference on Fracture, Vol. 2, 21:14844
  factors affecting pressure vessel, conference on, 21:4895 (EUR-3121.d,f,e)
  fatigue cycle of metals in fracture-type, correlation with total strain range, 23:36069 (GEMP-697)
  fatigue fracture, analysis, 22:23765 (TRG-Report-1294)
  mechanics of flawed specimen, three-dimensional elastic—plastic strain and stress analysis of, 25:18611 (HSSTP-TR-12)
  mechanics of fracture-type, relations with flaw growth in structural materials, 22:52170
  mechanics of metal, review of models for, 24:17279
  mechanics of structural material, principles of, 22:4791
  mechanics of, prediction of brittle failure conditions from, 21:26804 (WAPD-TM-505)
  mechanism in solid metals due to liquid-metal embrittlement, effects of capillary action on, 21:14847
  mechanisms in creep and stress, 23:3063
  mechanisms of cleavage-type, in brittle materials, 21:39692
  mechanisms of creep and stress, review of parameters of, 22:270 (GEMP-555)
  mechanisms of crystalline solid, 22:28728
  mechanisms of ductile pipe, 24:41626(R) (BMI-1887)
  mechanisms of ductile pipe, analysis of, 22:26036(R) (BMI-1836)
  mechanisms of metal, model of, 22:49719 (TRG-Report-1293)
  theory of, mathematical, physical, and continuum mechanical, book on, 21:14843
  work minimums for ceramics and metals, measurement, 21:26827
Rural Cooperative Power Association Reactor
    see Elk River Power Reactor
Rushmore Burst
    see Hardtack Operation-Phase II
Russelville Power Reactor
    see Arkansas Nuclear One Power Reactor
Russia
    see Soviet Union
Russian Reactors
    see Reactors, U.S.S.R.
RUTHENATES
    see also Chlororuthenates
    see also Potassium Ruthenates
    see also Sodium Ruthenates
RUTHENIUM
  abundance in photosphere, (E), 22:23934
  analysis for impurities by Auger electron spectroscopy, 24:22583
  analysis for oxygen by vacuum fusion method, 25:57329
  analysis for trace amounts of impurities, spectrochemical methods for, 24:7409
  analysis of solutions of, for trace amounts of cobalt, copper, and nickel, chromatographic, 22:22976
  analysis of surfaces of, using helium field-ion microscopy, 22:10995
  analysis of, for trace impurities by neutron activation methods, 21:10272
  atomic weight of, based on carbon-12 = 12, 22:42698
  Auger electron spectra, 24:25950
  book: Analytical Chemistry of Ruthenium, 24:26911
  book: Analytical Chemistry of the Noble Metals, 24:7405
  book: Guide to Uncommon Metals, 21:34854
  book: Uncommon Metals, 22:10981
  carbon monoxide desorption from surface of, field emission study of, 25:16450
  carbon monoxide surface properties on surface of, field emission study of, 25:16450
  casting by levitation melting using magnetic field, 25:55424
  chemical properties of, 22:12181(R) (ORO-3542-2)
  chemistry of fission product, 24:38815
  chemistry of, analysis by fluoride volatility technique, 22:9988(R) (ANL-7391)
  chemistry of, as related to TBP extraction process, 22:40052 (KR-126, pp 101-19)
  chromatographic behavior in hydrochloric acid—pentyl alcohols, 22:16675
  chromatographic behavior in hydrochloric acid—thiocyanate mixture on Amberlite LA-2, 25:18337
  chromatographic behavior on thin layers of cellulose and silica gel impregnated with tributyl phosphate, 22:23115
  complexes of, chemiluminescence and photoluminescence of, 23:31255 (MIT-905-133, pp 37-77)
  complexes of, chemistry of, research progress on, 22:12181(R) (ORO-3542-2)
  complexes of, research on chemistry of, 25:18301(R) (ORO-3542-8)
  complexes of, role in transport of radioactivity in seawater, 24:34208
  complexes with 1,1,1,5,5,5-hexafluoro-2,4-pentanedione, separation of, from cobalt hexafluoroacetylacetonates, gas chromatographic, 22:51075
  complexes with 2,2'-bipyridine, structure of, 22:42641
  complexes with 2,4,6-tri-2-pyridyl-s-triazine, spectral studies on, 23:2192

complexes with ammonia and ammonium chloride, radiolysis of aqueous solutions of, spectra of intermediates produced by electron pulse and γ, 24:38900
complexes with ammonia, substitution reactions of, 25:51341(R) (SU-326-P-6-X-4)
complexes with β-ketoenols, preparation and properties of, review of, 22:2061
complexes with EDTA, preparation and spectra of, 22:35810
complexes with nitrosonaphthols, formation constants for, 24:41406
complexes with terpyridine, chemical and electrochemical properties of, 25:23511
complexes with thoron, stability and structure of, 23:34983
complexes with triphenylphosphine and aromatic amines, carboxylic acids, cyclopentadiene, β-diketones, ketones, or nitriles, ir and NMR spectral studies on, 23:49782
complexes, analysis of plating solutions containing, for ruthenium, spectrophotometric, 24:43959
complexes, chemistry of, 24:18836(R) (ORO-3542-7)
complexes, spectra of, NMR, 23:40616 (UCRL-18735, pp 5-80)
compounds of, effects of ionic hexaammine-, on reduction of ionic aquo- and hydroxopentaamminecobalt, oxygen isotopic fractionation in, 21:56
compounds of, mixed valence chemistry of, review on, 24:7440
compounds of, sorption of volatile, by soda lime, 21:30498(R) (EURAEC-1832)
compounds, ruthenium-99 Moessbauer isomer shifts in, (E/T), 25:1335
content in plutonium from spent fuels, 22:27856(R) (K-1738)
content ratio in river silts to river water, 23:13859
corrosion by acids, bases, chlorine, and oxygen, analytical significance of, 24:8066
corrosion of, by hydrochloric acid, radiochemical method for measuring anodic, 21:10409
Curie levels and Roentgen rates for neutron-irradiated, at 1-, 10-, 100- and 1000-min irradiation time, 22:23035 (MLM-1457)
cycling in aquatic ecosystems, 23:43282
decontamination factors for, in fluoride volatility process for separation of uranium from irradiated fuels, 21:24059 (ANL-6994)
decontamination in first contactor in TBP fuel reprocessing, 22:16678
decontamination in TBP extraction systems for fuel reprocessing, 22:16677
deposition in filter pores in waste processing, 23:13824(R) (IN-1201)
deposition on graphite and Hastelloy N under MSRE operating conditions, 21:36794
deposition on single crystals of copper, cracking and strength of films from, 22:17116(R) (ORO-3401-3)
detection in low-energy cosmic radiation, (E), 25:19525
determination as bromo complex by spectrophotometry, 23:43260
determination as bromo complex, spectrophotometric, 24:13742
determination as complex of tropolone, spectrophotometric method for, 25:31809
determination as dithiooxamide complex by spectrophotometry, precision in, 23:45188
determination as inclusion in irradiated plutonium dioxide by electron microprobe methods, 24:41172 (AERE-R-6310)
determination as thiosalicylamide complex by gravimetry and spectrophotometry, 24:2111
determination by 3-MeV neutron activation methods, sensitivities for, 24:5636
determination by activation methods, detection limits for, 22:16392 (GA-8171, pp 7-40)
determination by atomic absorption method, 23:45202
determination by atomic absorption spectrophotometry, effects of uranium on, 25:15493
determination by atomic absorption spectrophotometry, 25:8209
determination by atomic absorption spectrophotometry, sensitivity for, 23:19626
determination by catalytic method, 25:15490
determination by electroanalytical methods, review of, 23:17334
determination by method based on catalysis of periodate oxidation of tris(1,10-phenanthroline)iron, 23:40545
determination by neutron activation, 25:44343
determination by neutron activation methods, 24:2158
determination by neutron activation methods using characteristic x rays, 23:13677
determination by neutron activation methods, γ-ray spectra and sensitivity of, 22:42611
determination by photon activation, sensitivity for, 23:15826
determination by photoneutron counting, activation, 22:24788 (IA-1128, pp 55-77)
determination by ring colorimetry after separation by thin-layer chromatography, 25:15487
determination by spectrophotometry using 3,4-diaminobenzoic acid, 25:57325
determination by spectrophotometry using acenaphthenequinone monoxime, 25:51375
determination for evaluating yields in radiochemical separations, 21:32213 (NAS-NS-3111)
determination in acetic acid by spectrophotometry using 2,3-diaminopyridine, 23:13642
determination in air and biological materials by solvent extraction and glass nichrome wire ring chamber method, 23:11423
determination in alloys and metals, spectrochemical methods for, 24:7409
determination in aluminum alloy powder compacts, 21:30345(R) (IN-1063)
determination in aluminum oxide catalysts, spectrophotometric, 25:6260 (CEA-N-1341, pp 3-93)
determination in aqueous solutions by atomic absorption spectrophotometry, 24:46187
determination in aqueous solutions by spectrophotometry using thoron, 23:34983
determination in binary alloys with nickel, x-ray spectrographic, 22:4 (AERE-R-5452)
determination in carbon powder, improvement in sensitivity of spectrographic, 25:37298
determination in carbonaceous and enstatite chondrites, activation, 22:22
determination in catalysts using rotating microelectrodes, polarographic, 23:37894
determination in EBR-II fuels and fissium, development of remotely controlled atomic absorption spectrophotometry system for, 24:36153
determination in fission product solution by solvent extraction with trioctylamine and counting, 23:23
determination in fissium oxides, 24:2100 (IN-1316, pp 41-59)
determination in fuel reprocessing plant streams, 22:16356 (KR-116)
determination in fuel reprocessing solutions, 23:38040
determination in geochemical samples by neutron activation, 25:54484
determination in geological sample by neutron activation and radiochemical separations, 25:54485
determination in high-burnup plutonium dioxide fuel by isotope dilution mass spectrometry, 25:18356 (KR-140)
determination in hydrocarbon matrix by neutron activation methods, 21:42892
determination in hydrochloric acid media by controlled-potential coulometry, 24:4199
determination in hydrochloric acid solutions by prereduction with excess iron(II), titrimetric, 24:20688
determination in hydrochloric, perchloric, and sulfuric acid solutions by catalytic oxidation of 3,3'-dimethoxybenzidine by periodates, 23:45199
determination in iron oxide-coated silicious waste materials, spectrographic, 25:8196 (BARC-504)
determination in irradiated cerium dioxide—uranium dioxide fuel, electron microprobe method for, 24:11442
determination in irradiated fuels, methods for radiochemical, 25:23522 (SRARI-P-81)
determination in irradiated plutonium, 21:35895
determination in irradiated uranium dioxide fuel pins, electron probe, 22:25321 (ANL-7375, pp 95-134)
determination in lead coating on copper by spark mass spectrography, 23:31287
determination in meteorites by neutron activation and radiochemical separation, 24:139
determination in meteorites, silicate rocks, and sulfide ores by neutron activation and radiochemical separation, 23:11467
determination in minerals and industrial samples, spectrophotometric, 25:28960
determination in minerals by spectroscopy, 24:41198
determination in minerals, ores, and rocks by neutron activation following separation by cupellation, 25:48488
determination in mixture with cerium and platinum by spectrophotometry, 21:40772 (IS-1600, Paper 3)
determination in molybdenites by neutron activation, radiochemical separation, and surface ionization, 24:29236
determination in natural materials, methods for, 25:12939
determination in nuclear materials, 21:21870
determination in osmium and rhodium by activation methods, 21:38880
determination in plants, sediments, and water by neutron activation method, 23:43282
determination in plating solutions containing ruthenium complexes, spectrophotometric, 24:43959
determination in platinum by neutron activation methods, 22:27570
determination in plutonium alloys, 21:35895
determination in presence of osmium by neutron activation and radiochemical separations, 23:37925
determination in presence of osmium without separation, kinetic differences between catalyzed reactions for, 25:28941
determination in presence of osmium, spectrophotometric, 25:54412
determination in presence of other platinum metals, spectrophotometric, 24:22588
determination in presence of rhodium, spectrophotometric, 22:1978
determination in pure materials by neutron activation, 23:26206
determination in ruthenium compounds using alkali nitrate fusion method, 23:33
determination in ruthenium—uranium alloys or uranium carbide—ruthenium cermet materials by controlled-potential coulometry, 24:4199
determination in silicate rocks and rock-forming minerals by neutron activation and radiochemical separations, 25:54486
determination in solutions from processing of irradiated plutonium, 22:37640(T) (ANL-Trans-628, pp 2-50)
determination in spent fuel elements, 23:23910(R) (IN-1277)
determination in sulfide ores by neutron activation and radiochemical separation, 23:4531
determination in sulfuric acid solutions by electrolysis at a controlled potential, 23:45201
determination in technetium by neutron activation, 25:22057
determination in uranium alloys by atomic absorption spectrometry, 23:13628
determination in uranium dioxide—ruthenium and plutonium dioxide—uranium dioxide—ruthenium cermets, spectrophotometric, 22:7986 (AERE-R-5617)
determination in uranium fission products by oxidation and solvent extraction, mass spectrometric or radiometric, 24:48044
determination in uranyl fluoride by distillation and spectrophotometry, 25:31791 (NIM-1043)
determination in uranyl fluoride by distillation and spectrophotometry, 25:31792 (NIM-1044)
determination in uranyl nitrate solutions, spectrophotometric, 22:27530 (CEA-N-816, pp 9-65)
determination in vegetal materials by fast and thermal neutron activation, 23:9327
determination in water, review on methods for, 23:26176
determination in zirconium waste solutions and calcined products, 23:4 (IN-1203, pp 8-29)
determination of, 22:37639(T) (ANL-Trans-610, pp 1-56)
determination of trace amounts of, by catalytic oxidation of benzidine by hydrogen peroxide, 23:45200
determination of trace amounts of, by neutron activation and tracer methods, 21:10272
determination of trace amounts of, in aluminum—platinum—ruthenium and platinum—ruthenium, photometric, 23:21629
determination of trace amounts of, in biotite and tektite by spark source mass spectrometry, 25:10455
determination of trace amounts of, in liquid sodium by emission spectroscopy, 24:46174 (BNWL-1407)
determination of trace amounts of, in meteorites by neutron activation and γ spectrometry, 25:41773
determination of trace amounts of, in platinum by neutron activation and radiochemical separation, 25:51409 (IS-T-458)
determination of trace amounts of, in platinum by neutron activation following separation by ion exchange chromatography, 25:29023
determination of trace amounts of, in presence of noble metals using 4,4,4-trifluoro-1-(2-thienyl)-1,3-butanedione, spectrophotometric, 22:22975
determination of trace amounts of, in solutions by paper chromatography and electrophoresis, 25:37299
determination of trace amounts of, in uranium, comparison of colorimetric method with atomic absorption, 24:18873 (NLCO-1047)
determination of trace amounts of, in uranium, spark mass spectrometric, 21:34227
determination of various oxidation states of, methods for, 23:13645
determination of, chelate formation for, 22:42641
determination of, comparison of detection limits for atomic absorption and flame emission spectroscopic, 24:2110
determination of, in highly irradiated uranium dioxide, 21:15840
determination of, in irradiated fuel processing waste by electrophoresis and counting, 21:8188 (CEA-R-3095)
determination of, in meteorites by neutron activation methods, 21:4448
determination of, radiochemical procedures for, 21:45010 (LA-1721(3rd. Ed.))
determination of, review on methods and reagents for gravimetric, 24:7406
determination of, review on methods and reagents for volumetric, 24:7407
determination of, review on methods and reagents for spectrophotometric, 24:7408
determination of, review on methods for, 24:7492
determination of, titrimetric micro-, 22:27577
determination of, use of ion exchange in methods for, 25:54397
determination of, using premixed, oxy-acetylene flames, spectroscopic, 21:19563
determination simultaneously with osmium, neutron activation method for, 22:27842
determination using 2,4,6-tri-2-pyridyl-s-triazine, spectrophotometric, 23:2192
determination using 2,4,6-tri-2-pyridyl-s-triazine, spectrophotometric, 22:40015
determination using 3-nitroso-2,6-pyridinediol, photometric, 25:33
determination using 8-quinolinol N-oxide, spectrophotometric, 24:43942
determination using 8-quinolinol, spectrophotometric, 24:11446
determination using benzenesulfonylbenzamide oxime, photometric, 25:48447
determination using catalytic hydrogen wave, polarographic, 25:10
determination using Chrome azurol S, spectrophotometric, 23:15794
determination using EDTA in hydrogen peroxide, spectrophotometric, 23:17337
determination using hydroxycoumarins, 23:2190
determination using iron thiocyanate and stannous chloride, catalytic, 23:77
determination using terpyridine, spectrophotometric, 25:23511
deuteron elastic scattering at 13.6 MeV, diffraction structure in angular distributions for, (E), 22:48501
deuteron elastic scattering at 14 MeV, angular distributions for, (E), 23:5843
deuteron reactions (d,p) with, preparation of target for measuring cross sections for, 23:47448
diffusion from neutron-irradiated graphite—uranium carbide—uranium dioxide systems, 22:45140 (BMwF-FBK-68-08)
diffusion in liquid silver, 21:36821 (COO-841-10)
dissolution by alkaline nitrate or alkaline peroxide fusion, effects of iron crucibles on, 23:17549
distribution and ion exchange on clays, 25:2338
distribution between aqueous and organic solvents, validity of Nernst distribution law at low concentrations for, 21:17642
distribution between ion exchangers and nitric acid, coefficients for, 23:201
distribution between molten iron and uranium dioxide at 2850 to 3000°C, 25:52318(R) (ANL-7820)
distribution between nitric acid solutions and ion exchangers, 24:260(T) (ANL-Trans-776)

distribution in dodecane—TBP solution, coefficient of, 24:36339 (CEA-N-1241, pp 179-254)
distribution in fluoride volatility process streams after separation of uranium from irradiated fuels, 21:24059 (ANL-6994)
distribution in irradiated fuels of plutonium dioxide—uranium dioxide, radial, 23:26209 (ANL-7550, pp 35-73)
distribution in irradiated PRTR plutonium oxide (PuO$_2$)—uranium oxide (UO$_2$) pellet-type fuel elements, analysis of, 22:32743(R) (BNWL-739)
distribution in process off-gas and streams during fluid-bed fluoride volatility processing of irradiated uranium dioxide, 21:36091
distribution in products from fuel reprocessing by fluidized-bed fluoride volatility process, 22:30664
distribution on ion exchanger of Napolitan yellow tufa, 22:35883 (EUR-3922)
distribution on thin-layer DEAE-cellulose in organic solvent—thiocyanic acid mixture, chromatographic, 25:6417
effects of 5 percent additions of, on low-temperature thermal capacity of zirconium, 23:8161 (ORNL-4370, pp 21-5)
effects of additions of, on high- and low-temperature properties of molybdenum-base—tungsten alloys, 23:48418
effects of, on deuteration and deuterogenation of naphthalene and octalins, 21:12424
effects of, on tensile properties of tantalum alloy welds at high temperature, 21:9121
effects on americium determination by coulometric titration at conducting glass electrode, 23:28689
effects on colorimetric determination of gold, 25:34521
effects on colorimetric determination of uranium in fuel reprocessing solutions, 25:8197 (BARC-510)
effects on determination of fluorine in organic compounds and metal-organic compounds by neutron activation methods, 22:14439
effects on determination of polonium-210 in rocks and uranium ores by spontaneous deposition on silver, 23:89
effects on determination of trace amounts of rhenium by thiocyanate—stannous chloride method, 25:2102
effects on deuterium exchange reactions with organic compounds, 22:35819
effects on direct titrimetric determination of molybdenum using ceric sulfate, 22:4025
effects on magnetic and superconducting properties of antimony—palladium alloys, (E), 22:29393
effects on methods for determination of plutonium and uranium, 23:40535 (CEA-N-1044, pp 3-50)
effects on photometric determination of antimony following solvent extraction using TBP, 25:34512
effects on polarographic determination of uranium, 23:40536(T) (EURFNR-631)
effects on polarographic determination of uranium in Purex solutions, 23:31280 (KFK-869)
effects on preparation of ammonia, deuterium isotope effects and kinetics of catalytic, 24:16491
effects on properties and sintering of tungsten at 1000 to 2000°C, 25:55453
effects on reactions of arsenic(III) with cerium(IV), 25:28941
effects on reactions of benzene with hydrogen, catalytic, 23:11505
effects on separation of molybdenum from rhenium by solvent extraction using isopentyl acetate, 25:21140
effects on solvent extraction of titanium from hydrochloric acid using TBP and magnesium chloride as salting-out agent, 23:24281
effects on spectrometric determination of palladium and rhodium in fissium—uranium alloys, 24:31225 (LA-4438)
effects on spectrophotometric determination of iron in plutonium, 22:10172 (LA-3781)
effects on superconducting transition temperature of monoclinic Al$_{11}$Os$_4$, 22:52687
effects on thermal conductivity of niobium, 22:45774
effects on titrimetric determination of lanthanum using sodium rhodizonate and ceric sulfate, 22:27555
effects on tungsten sintering at 1000 to 1200°C, 24:23448
elastic moduli of single-crystal, effects of temperature on, 21:20493
electron band structure of, photoemission and optical study of, 25:11982
electron energy-loss spectra in, 25:964
energy levels of, quasiparticle—phonon coupling theory of, (T), 21:44798
enthalpy of sublimation of, mass spectrometric method for measurement of, 24:19452
etching and polishing of, ac electrolytic method for, 24:25668
fabrication of large surface area radiation targets of, electrolytic method for, 24:28660
fluorescence in hydrochloric acid medium at liquid-nitrogen temperature, 23:9376
formation and chemical state in urania irradiated above approximately 3 per cent burnup, 21:20596
formation of radiocolloids of, 21:43037
grain growth of fission-product, in uranium dioxide rods, effects of thermal gradients on, 25:19278
leaching from calcined zirconium fluoride-type waste, 23:38025 (IN-1298)
magnetic fields in ferromagnetic hosts at nuclei of, internal, (E), 21:44148 (COO-7-0422)
mechanical and physical properties of, 21:43616
metabolism by rats, 25:6610(T) (AEC-tr-7169, pp 67-123)
neutron absorption resonance integrals for, (E), 21:38308
neutron cross sections and strength functions for, collective and optical model analysis of, (E/T), 22:35337
neutron reactions (n,γ) at thermal energies, tabulation of prompt gamma spectra from, 21:13823 (IITRI-1193-53(Vols.1 and 2))
neutron resonance integrals for, 21:18301(R) (IN-1048)
neutron total cross sections at 30 to 650 keV, optical-model parameters from, (E/T), 21:19290
nucleon reactions at 25 to 400 MeV, cascade calculations using Monte Carlo method, 21:23238 (ORNL-4046)
nucleon reactions at 25 to 400 MeV, nonelastic cross sections and particle emission spectra from, (T), 21:37529
phase transformations in, relation of temperature dependence of elastic moduli to, 21:11208 (ANL-7155, pp 167-289)
photon reactions (γ,n) at 22 MeV, neutron angular distributions from, (E), 22:44656
physical chemistry of, in seawater, effects of environmental purity on, 25:15624 (CEA-R-4125)
physico-chemical characteristics and radioecology of, in aquatic systems, bibliography on, 22:51486 (CEA-Bib-123)
physicochemical properties of, in radioactive waste, chromatographic, electrophoretic, and ion exchange studies on, 24:36348 (EUR-4481)
precipitation of trace amounts of, from aqueous solutions using aluminum or strontium phosphates, effects of acidity on, 25:23655
precipitation of, by hydroxides, oxalates, 8-quinolinol, sulfates, and sulfides in ethylenedinitrilotetraacetic acid, 21:1342
preparation of foils of, for nuclear research, 22:24767
preparation of metallic, by electrodeposition from ruthenium nitrosyl chloride, 23:47448
properties for use as encapsulating material for californium-252 sources for neutron capture gamma-ray spectroscopy, 25:4772
properties of aerosols of, produced from solutions at high temperatures, chemical and physical, 25:54545
properties of exploding wire products of, 25:45030 (NYO-3756-6)
properties of fission-induced, for use in industry, 24:36920
properties of, for use as fuel capsule cladding, 21:6148 (STL-517-0034(Vol.1))
properties of, table on, 23:18226
purification by solvent extraction using carbon tetrachloride, 22:18884
radiation dose rate and relative intensity measurements for gamma-excited, x, 23:31754 (UCRL-50007-68-3, pp 5-11)
radiation effects on retention of, in TBP, 22:16683
radioactivity standards of, users' guide for, 22:33474 (NP-17502)
reactions in chloride volatility process for oxide fuel reprocessing, 24:9420 (BARC-405)
reactions of fission-product, with uranium carbide fuels, 25:40103(T) (EURFNR-851)
reactions of fission-product, with uranium carbide fuels, 25:13764 (KFK-1260)
reactions of, thermodynamics of, 22:12181(R) (ORO-3542-2)
reactions with halogens, 22:51045 (ANL-7425, pp 42-93)
reactions with lithium hydrides under hydrogen at 800°C, 23:24182
release to atmosphere in reprocessing aluminum-clad fuel elements, 25:34693 (ORNL-4574)
retention of, in waste solutions, method for, 21:131 (ORNL-TM-1584)
ruthenium-106 diffusion in, capillary method for measurement of coefficients of, 24:20776
ruthenium-99 Moessbauer effect in, γ-decay symmetry tests with, 22:3160 (BNL-11696)
separation as nitrosyl complex from nitric acid and TBP solutions in Purex Process, 25:39565 (KR-143)
separation as nitrosyl complex from nitric acid solutions of uranyl nitrate by solvent extraction using dodecane—TBP, 25:15725 (NP-18656)
separation by ion exchange using Alamine 336 in aqueous thiocyanate solutions, 25:4137 (IS-T-377)
separation by solvent extraction, method for, 24:46322
separation by thin-layer chromatography using slightly basic ion exchanger, effects of organic solvents on, 24:16661
separation from acid media as RuNO nitrato complex by solvent extraction using tridodecylamine, 23:28972
separation from acid solutions by solvent extraction using alkyl sulfoxides, 24:16485 (IS-2100, Sect. C)
separation from actinides, methods for, 22:25455 (CEA-N-616, pp 295-368)
separation from alkaline waste solutions by contact with hydrated titanium oxide, 22:4265(P)
separation from aqueous hydrobromic and hydrochloric acid solutions by solvent extraction using alcohols and amines, 23:47616
separation from aqueous hydrobromic and hydrochloric acid solutions by solvent extraction using organic phosphorus compounds, 23:49905
separation from aqueous radioactive waste by volatilization, 22:51064
separation from aqueous solutions by ion exchange, 24:14040
separation from aqueous solutions by ion exchange on metal sulfides in cellulose, 24:33766
separation from aqueous solutions by ion exchange on zirconium tellurate, tracer studies on, 25:41915
separation from aqueous solutions by solvent extraction using 6,7,9,10,17,18,20,21-octahydrodibenzo[b,k][1,4,7,10,13,16]hexaoxacyclooctadecin, 25:32056
separation from aqueous solutions by sorption on hydrated ferric oxide, 24:33774(P)
separation from aqueous solutions by two-dimensional electrochromatography, 21:27948
separation from aqueous wastes by deposition on metal chips, 23:6203
separation from beryllium sulfate solutions by solvent extraction using amines, 22:30644 (AAEC/E-189)
separation from copper sulfate electrolytes, methods for, 21:36183(R) (ORNL-TM-1932)
separation from effluents from chemical decanning of reactor fuel elements by sorption on ferrous hydroxide or sulfide, 25:8344(P)
separation from effluents from nuclear power plants by ion exchange on cellulose phosphate, 23:38064
separation from electrolyte by oxidation with ozone, 22:4295(R) (ORNL-TM-2062)
separation from feed solutions in fuel reprocessing prior to solvent extraction, 22:40166 (KR-126, pp 87-100)
separation from fission product mixtures, 24:29308(R) (BMBW-FBK-70-4)
separation from fission products as gaseous ruthenium tetroxide by ferric oxide—silica filters, 25:57532
separation from fission products by automatic ion exchange chromatography, design and performance of equipment for, 25:10659 (CEA-N-1267)
separation from fission products by solvent extraction using bis(2-ethylhexyl) phosphate, 22:33271
separation from fission products using sulfur hexafluoride and sodium fluoride beds, 22:33545
separation from fission products, controlled potential mercury cathode electrolysis method for, 24:2264 (CEA-R-3788)
separation from fuel processing wastes by precipitation using periodic acid, 21:34315 (CEA-R-3231)
separation from fuel reprocessing wastes, 23:11595 (BNWL-814)
separation from gaseous effluents using fluidized bed, method for, 22:25454 (CEA-N-616, pp 246-94)
separation from gases by ferric oxide—silica filters, 25:57532
separation from hydrochloric acid by solvent extraction using chloroform—N-phenylbenzohydroxamic acid system, 23:11400 (GAT-525)
separation from hydrochloric acid solution by solvent extraction using triisooctylamine, 21:28074
separation from hydrochloric or nitric acid by solvent extraction of nitrosonaphthol complex, 24:41406
separation from iridium, palladium, or platinum on titanium tungstate papers by electrochromatography, 25:54744
separation from irradiated alloys by extraction using quaternary ammonium salt, 24:11683(P)
separation from irradiated aluminum—plutonium alloys by oxidation and extraction from basic suspension using tridodecylamine hydrochloride, 23:35320(P)
separation from irradiated aluminum—plutonium fuels by solvent extraction using TBP, 24:22723(T) (ANL-Trans-799)
separation from irradiated aluminum—plutonium fuels by solvent extraction using TBP, 24:11653 (CEA-N-1148, pp 183-271)
separation from irradiated fuel during first reprocessing step, 24:9438(T) (ORNL-tr-1881)
separation from irradiated fuels by fluidized-bed volatility process, 22:8181
separation from irradiated magnesium—uranium dioxide fuel by oxidation and solvent extraction, 24:9464
separation from irradiated oxide fuels by fluoride volatility techniques, 23:38050
separation from irradiated uranium tetrachloride by zone melting, 23:15939
separation from liquid radioactive wastes, precipitation methods for, 23:2375 (LA-DC-10007)
separation from liquid wastes, 23:15953
separation from low-level waste by ion exchange, 22:47206(T) (ORNL-tr-1771)
separation from magnesium in decladding solutions, effects of nitrate ions on, 25:32036 (CEA-N-1419, pp 91-113)
separation from metals by reversed-phase column chromatography or solvent extraction using sulfoxides, 23:43382 (IS-T-293)
separation from metals by thin-layer chromatography using DEAE-cellulose in binary solvent systems, 24:22762
separation from metals using tributyl phosphate and aqueous hydrochloric acid solutions, reversed-phase thin-layer chromatographic, 21:32230
separation from molybdenites by fusion and distillation, 24:29236
separation from neutron-irradiated uranium by extraction chromatography, 25:46558
separation from neutron-irradiated uranium dioxide by volatilization, 22:25476
separation from nitrate and sulfate solutions by solvent extraction using amines, 25:2319 (ORNL-4572, pp 181-95)
separation from nitrate fuel reprocessing solutions by solvent extraction using TBP, 25:6400 (ORNL-4618)
separation from nitric acid by solvent extraction using irradiated TBP in dodecane, 23:353 (ORNL-4272, pp 34-55)
separation from nitric acid solutions as nitrosyl nitrato complex by solvent extraction using TBP, 25:21130
separation from nitric acid solutions by ion exchange, 23:47609
separation from nitric acid solutions of plutonium and uranium by solvent extraction using trioctylamine, 22:21166
separation from osmium by distillation from peroxide—sulfuric acid solution, 22:44990
separation from osmium by solvent extraction of bromo complex using 4-methyl-2-pentanone, 24:13742
separation from osmium by solvent extraction using 4-methyl-2-pentanone, 25:230
separation from osmium, review on methods for, 24:7492
separation from other fission products and inorganic redox ion exchanger, 21:43029
separation from other fission products by electrophoretic focusing of ions, 22:35912
separation from other fission products by flotation method, 23:4712(T) (KFK-tr-232)

separation from other fission products by ion exchange on zirconium oxide hydrate—dithionite column, 25:32053
separation from other fission products by ion exchange using metal ferrocyanide—ion exchange resin, 23:11629
separation from other fission products by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from other fission products in reprocessing of irradiated fuels, 23:35293(P)
separation from other materials by ion exchange using tin phosphate, 22:33552
separation from other metals by solvent extraction, 21:39005
separation from other metals using inorganic ion exchange papers, 25:41909
separation from other platinum metals by paper chromatography, 24:298
separation from other platinum metals by paper electrophoresis using EDTA as a background electrolyte, 24:283
separation from palladium and platinum by precipitation using ammonium thiocyanate and α-benzyldioxime, 25:37475
separation from palladium and rhodium by coprecipitation with ferric hydroxide, 25:57552
separation from palladium, rhodium, and technetium recovered from aged Purex waste, 23:33245 (ARH-911)
separation from platinum by distillation, 24:16485 (IS-2100, Sect. C)
separation from plutonium, 22:37837(R) (K-1744)
separation from plutonium, 22:23099(R) (K-L-1780(Pt.23))
separation from plutonium by anion exchange from mixed methanol—nitric acid solutions, 25:29191
separation from plutonium by fluoride volatility process, 24:50439(R) (ANL-7675)
separation from plutonium by selective fluoride sorption, 23:40814(P)
separation from plutonium by solvent extraction using nitromethane, 22:33521
separation from plutonium in fluoride volatility process, evaluation of procedures for, 22:35881 (ANL-7450, pp 21-38)
separation from plutonium using fluoride chemistry, 22:12006(R) (ANL-7399)
separation from plutonium, use of transpiration technique for, 22:30118 (ANL-7438)
separation from Purex wastes by distillation following solidification by phosphate glass process, 24:13992 (BNL-50184)
separation from radioactive effluents by pH adjustment and treatment with zeolites, 25:41913(P)
separation from radioactive waste using oxidizing agent and manganese salt, 25:41911(P)
separation from radioactive wastes at Marcoule plutonium production center, 23:47601
separation from reactor fuel effluents and solutions, precipitation method for, 22:37842(P)
separation from rhenium by solvent extraction, 25:54401
separation from rhodium by ion exchange using zones of inorganic ion exchangers, 23:26336
separation from sea water by precipitation with manganese dioxide and various hydroxides, 21:22025
separation from sea water by solvent extraction using TTA, 22:23086 (ANL-7421)
separation from seawater by flocculation, 25:18518
separation from solutions by adsorption on molecular sieve 4A, 21:19737
separation from spent power reactor fuel elements, economic aspects of, 24:9609
separation from sulfuric acid solutions by solvent extraction using amines, 22:27869
separation from TBP by adsorption, materials for, 22:25452 (CEA-N-616, pp 154-214)
separation from TBP by extraction chromatography using dibutyl phosphate—potassium hydroxide mixture, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation from TBP by extraction chromatography using dibutyl phosphate—potassium hydroxide mixtue, 25:6393 (CEA-N-1341, pp 245-315)
separation from uranium and fission product mixtures by oxidation and distillation, 25:32058
separation from uranium and fission products by distillation, 25:20942
separation from uranium and plutonium by fluidized-bed fluoride volatility process, 23:21779 (ORNL-TM-2170)
separation from uranium by partition chromatography, 25:51587 (UJV-2567-Ch)
separation from uranium by pressure precipitation using hydrogen sulfide, 21:25943
separation from uranium by solvent extraction, 22:16356 (KR-116)
separation from uranium by solvent extraction using phosphonates, phosphinates, and phosphine oxides, 22:42816 (UJV-1921)
separation from uranium fission products by oxidation and solvent extraction, 24:48044
separation from uranium hexafluoride by selective sorption techniques, 22:4240
separation from uranium in spent fuels by Purex Process, 21:24066 (KR-115)
separation from various elements by solvent extraction using carbon tetrachloride, 22:18884
separation from water by filtration, 23:40847
separation of berkelium from, by sorption on zirconium phosphate—silicate, 25:57530
separation of carrier-free niobium-95 and zirconium-95 from, by sorption by Teflon, 21:155
separation of colloidal, from aqueous solutions, 21:43037
separation of fission product, from uranium solutions, method for, 21:14930(R) (ORO-3235-12)
separation of iron from, by solvent extraction using isopropyl ether, 23:17549
separation of protactinium from, method for, 24:14039
separation of rhodium from neutron-irradiated, 21:32258
separation of rhodium-105 from neutron-irradiated, 21:4612
separation of ruthenium-106-labeled colloids of, from aqueous solutions by adsorption, centrifugation, and ultracentrifugation, 21:30506 (UJV-1697)
separation of tetravalent and trivalent, from nitrosylruthenium by cation exchange, 24:29356
separation of trace amounts of, from other fission products and uranyl nitrate by solvent extraction using palmitic acid—paraffin, effects of alkalization on, 21:14293
separation of uranium from, by thin-layer chromatography, 21:25944
separation of, from aqueous solutions by adsorption by hydrated ferric oxide, effects of silver oxide on, 21:1443
separation of, from berkelium by solvent extraction using 2-thenoyltrifluoroacetone—xylene, 21:2951
separation of, from feed solutions, effects of nitrous acid on solvent extraction using TBP for, 21:14309
separation of, from iridium by selective distillation, 21:12303
separation of, from other elements by reversed-phase partition chromatography using DEHPA-impregnated paper, 21:151
separation of, from other fission products by ion exchange on vanadium ferrocyanide, 21:3153
separation of, from other fission products by solvent extraction using bis(2-ethylhexyl) phosphate, 21:4616(P)
separation of, from rhodium, 21:4612
separation of, from waste water by cellulose derivative—bentonite flocculation, 21:6005
separation of, review on methods for, 24:7492
separation with other elements from irradiated fuels by thin-layer chromatography, 21:40976
sintering of, economics, equipment, and method for vacuum, 24:969
solubility of fission-product, in copper—magnesium alloys at 600 to 850°C, 21:21755(R) (ANL-7302)
sorption by ferric hydroxide, ion-exchange materials, and porphyran, 22:12456 (PG-Report-819)
sorption by manganese dioxide from nitric acid, 22:157
sorption by metal hydroxide—ion exchange resins, 23:11629
sorption by sodium ferrocyanide—sodium molybdate ion exchanger, effects of ammonium nitrate, nitric acid, and sodium chloride on, 24:9442
sorption by zirconium phosphate, effects of acidity on, 23:385
sorption of colloidal and ionic, by ferrous hydroxide formed by electrodissolution of iron anode, 21:30507 (UJV-1733)
sorption of radioactive, on ferrous hydroxide, effects of colloidal and ionic states on, 22:27720
spectra of, bibliography on optical, 24:37188 (NBS-SPEC. PUBL-306-3)
sputtering by helium ions, isotope effect in, 24:28071(R) (ORO-3557-10)
stress in electrodeposited thin films of, analysis of residual, 23:20501 (ORO-3401-10)
structure of cluster, 22:27517(R) (MIT-1965-63)
superconducting critical temperature of, resonating-valence-bond theory for, 22:38970
surface friction of riders of, sliding on ruthenium, 22:52177
thermodynamic constants of, and its compounds, 23:33190
thermoelectric power at high temperatures, review, 24:24146
transport of radioactive, through simulated aquifers, effects of ground water on, 22:23142
uses as structural materials in corrosive environments, review on, 23:46004
uses of fission product, evaluation of potential, 25:34803(R) (BNWL-1308-5)
volatility during pot and spray calcination of radioactive waste, 22:47306(R) (BNWL-771)
volatility during radioactive waste fixation in solids, effects of reducing agents on, 23:45490 (BARC-400)
volatility in fuel melts during processing by spray solidification, effects of neutralization on, 23:11596(R) (BNWL-923)
volatility in phosphate glass, 23:4738
volatility of fission-product, in fixation of radioactive wastes in glass, 22:23094(R) (IAEA-3431-4)
volatility of Purex waste, use of formaldehyde or hypophosphorous to reduce, 23:544 (BNWL-824)
volatilization during fixation in glass, methods for prevention of, 21:1540(R) (IAEA-3431-3)
volatilization during fuel reprocessing, effects of fluorine and oxygen on kinetics of, 24:11655 (CEA-N-1148, pp 297-334)
volatilization during fuel reprocessing, effects of fluorine and oxygen on kinetics of, 24:22724(T) (ANL-Trans-800)
volatilization in phosphate glass process for solidification of radioactive waste, 24:13993 (BNWL-1185)
volatilization in radioactive waste processing, 24:33754(R) (BNWL-1401)
volatilization in spray solidification of radioactive waste, 23:21774(R) (BNWL-1003)
volatilization in spray solidification of radioactive waste, 24:46298(R) (BNWL-1494)
volatilization in spray solidification of radioactive waste, 23:35255(R) (BNWL-1074)
zirconium activity coefficients in, 23:40616 (UCRL-18735, pp 5-80)

RUTHENIUM ALLOYS AND SYSTEMS
dissolution of, sealed-tube method for, 21:6801 (LA-3554)
Pd-base—Ru, corrosion by air at 800 to 1200°C, 24:17211
Al—Pt—Ru, analysis for trace amounts of ruthenium, photometric, 23:21629
Al—Ru, crystal structure of, review of, 23:48460 (NP-18014)
Al—Ru—U-base, properties for use as reactor fuel with improved resistance to bubble formation, 21:11255(P)
B—Mo—Ru, crystal structure of ternary compound of, 24:46807
B—Ru—W, crystal structure of ternary compound of, 24:46807
C—Mo—Ru, phase diagrams at 1100, 1500, and 2000°C, 25:40103(T) (EURFNR-851)
C—Mo—Ru, phase studies of, 25:13764 (KFK-1260)
C—Ru—Th, phase studies of, 25:55640
C—Ru—U, crystal structure and properties of U_2RuC_2, effects of annealing on, 23:22641
C—Ru—U, phase diagram at 1300°C, 24:25802
C—Ru—U, phase studies of, 23:8330
C—Ru—U, preparation of U_2RuC_2 by arc melting under argon, 23:22641
C—Ru—U, thermodynamic properties of URu_3C/sub x/ where x less than or equal to 0.7, 24:25802
C—Ru—Zr, phase studies, 23:30050 (UCRL-18727)
Ce—Co—Ru, preparation and superconductivity of, 24:30287
Ce—Co—Ru, preparation and superconductivity of, (E), 25:30413(T) (LA-tr-71-26)
Ce—Fe—Ru, preparation and superconductivity of, 24:30287
Ce—Fe—Ru, preparation and superconductivity of, (E), 25:30413(T) (LA-tr-71-26)
Ce—Gd—Ru, critical magnetic field in superconducting, (E), 25:56074
Ce—Gd—Ru, electron paramagnetic resonance spectra of Ce/sub 1-x/Gd/sub x/Ru_2 at 25°C, 77°K, and 4.2°K, 25:40826
Ce—Gd—Ru, magnetization and thermal capacity of superconducting, (T), 25:52739
Ce—Gd—Ru, preparation and superconductivity of, 24:30287
Ce—Gd—Ru, preparation and superconductivity of, (E), 25:30413(T) (LA-tr-71-26)
Ce—La—Ru, superconducting transition temperature of La/sub x/Ce/sub 1-x/Ru_2 solid solutions, 25:1135
Ce—Mn—Ru, preparation and superconductivity of, 24:30287
Ce—Mn—Ru, preparation and superconductivity of, (E), 25:30413(T) (LA-tr-71-26)
Ce—Nd—Ru, critical magnetic field in superconducting, (E), 25:56074
Ce—Ni—Ru, preparation and superconductivity of, (E), 25:30413(T) (LA-tr-71-26)
Ce—Ni—Ru, superconductivity of, 24:30287
Ce—Pt—Ru, lattice parameters of CePt/sub 2-x/Ru/sub x/, 23:5489
Ce—rare earths—Ru, superconductivity and magnetism in mixed phases, 25:33197
Ce—Ru, critical magnetic field in superconducting intermetallic $CeRu_2$, (E/T), 25:56074
Ce—Ru, preparation and superconductivity of intermetallic $CeRu_2$, (E), 25:30413(T) (LA-tr-71-26)
Ce—Ru, preparation and superconductivity of intermetallic $CeRu_2$, 24:30287
Ce—Ru, superconductivity and magnetism in $CeRu_2$, 25:33197
Ce—Ru, superconductivity of, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
Ce—Ru, thermal capacity of intermetallic $CeRu_2$, 23:962 (IS-1900, Paper 5)
Ce—Ru, thermal capacity of Laves phase $CeRu_2$ at low temperatures, 22:48151 (IS-T-228)
Ce—Ru, thermal capacity of Laves phase intermetallic compounds at 1.4 to 8°K in, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
Ce—Ru, thermal capacity of Laves-phase $CeRu_2$ in magnetic field at low temperatures, 23:5489
Ce—Ru—Tb, superconductivity and ferromagnetism in mixed crystals, (E), 24:28178
Ce—Ru—transition metals, superconductivity and magnetism in mixed phases, 25:33197
Ce—Ru—Y, critical magnetic field in superconducting, (E), 25:56074
Co—Ru, properties for use as cobalt-60 heat source fuel form, 24:9597(R) (DP-1216)
Co—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Cr—Ru, electronic specific heat of, 21:4947
Cr—Ru, magnetic properties of, 21:2319
Cr-base—Ru, superconductivity and thermal capacity of, with A-15 structure, 25:25045
Cu-base—Ru, strain-stress curves for, 22:17116(R) (ORO-3401-3)
Fe—Mo—Ni—Ru—W-base, preparation method for improved, 22:6976(P)
Fe—Ru, nuclear magnetic resonance in, spin—echo technique for, 22:9438
Fe—Ru, ruthenium-99 Moessbauer effect for transitions with multipole mixing, (E), 22:53143
Fe—Ru, superconductivity and electron interaction in 3d band of, (E/T), 23:18565
Fe—Ru, thermal capacity of, effect of composition on, 22:40993(R) (COO-1198-534)
Hf—Ru, analysis for hafnium by electrolysis and titrimetry, 25:20922
Hf—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ir—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Ir—Ru, superconductivity, susceptibility, and thermal capacity of, correlation between, (E), 22:11383
Ir—Ru, superconductivity, susceptibility, and thermal capacity of, (E/T), 22:11384
Ir—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
La—Ru, gadolinium EPR in $LaRu_2$, effects of praseodymium on, (E/T), 23:23293
La—Ru, magnetic susceptibility and EPR of $LaRu_2$ with Gd^{3+} impurities, (T), 22:26515

La—Ru, superconductivity of, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
La—Ru, thermal capacity of Laves phase intermetallic compounds at 1.4 to 8°K in, (E), 23:8539 (CONF-681020-(Vol.1), pp 7-16)
La—Ru, thermal capacity of Laves phase LaRu$_2$ at low temperatures, 22:48151 (IS-T-228)
La—Ru, thermal capacity of Laves-phase LaRu$_2$ in magnetic field at low temperatures, 23:5489
La—Ru—Th, lanthanum-139 NMR in intermetallic, g shift and Knight shift relation in, (E), 22:9439
Mn—Ru, superconductivity and electron interaction in 3d band of, (E/T), 23:18565
Mo—Pd—Rh—Ru—Tc, fission-induced inclusions of, in plutonium dioxide—uranium dioxide fuels, 22:17152
Mo—Pd—Rh—Ru—U—Zr, fabrication of fuel alloy of, for EBR-II, 21:4590 (ANL-7125, pp 21-60)
Mo—Pd—Ru, electric properties, 23:994
Mo—Re—Ru, composition of, for brazing molybdenum and tungsten alloys, 21:6784(P)
Mo—Re—Ru, phase diagram, 23:22529
Mo—Re—Ru, properties of, chemical, corrosive, electrical and mechanical, 23:22529
Mo—Re—Ru, sintering behavior, 23:22529
Mo—Ru, joining of, with porous tungsten, methods for, 21:9117
Mo—Ru, properties for use as thermocouple at high temperatures, 21:28730(R) (GEMP-475-A)
Mo—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
N—Ru—Zr, compound formation and stability in, 21:33002
Nb—Ru, crystal structure and density of intermetallic compounds in, review on, 23:47433
Nb—Ru, crystal structure of, at 50 to 700 deg C, 21:495
Nb—Ru, crystallization of solid-solution, mechanisms of, 25:19242
Nb—Ru, diffusion in, effects of composition on mutual, 25:55452
Nb—Ru, phase diagram for, review on, 23:47435
Nb—Ru, phase transformation in near-equiatomic, aspects of martensitic, 21:43621 (COO-1198-473)
Nb—Ru, phase transformation in near-equiatomic, crystallography, kinetics, and theory of displacive, 25:29882 (COO-1198-807)
Nb—Ru, properties of, at 0 to 50 atomic percent ruthenium, 21:495
Nb—Ru, thermal conductivity at 50 to 350°C, effects of ruthenium content on, 22:45774
Nb—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Nb—Ru—Ta, preparation and properties of, 21:475
Nb—Ru—Ta, preparation and properties of, 21:474
Ni—Ru, analysis for ruthenium, x-ray spectrographic, 22:4 (AERE-R-5452)
Ni—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Ni-base—Ru, neutron magnetic scattering by, (E), 22:24809
Os—Ru, superconductivity of hcp, (E), 25:30433
Os—Ru—W-base, grain size of cast, effects of osmium and ruthenium content on, 23:30022
Os—Ru—W-base, hardness of cast, effects of osmium and ruthenium content on, 23:30022
Pd—Pu—Rh—Ru—U, formation in irradiated plutonium dioxide—uranium dioxide fuels, 22:17152
Pd—Pu—Rh—Ru—U, occurrence of inclusions of, in irradiated plutonium carbide—uranium carbide, 25:16541
Pd—Rh—Ru, electric properties, 23:994
Pd—Ru, electric properties at high temperatures, 23:994
Pd—Ru, mechanical properties at high temperatures, 23:994
Pd—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pd-base—Ru, thermoelectric properties of solid solutions of, 24:17271
Pt—Ru, analysis for trace amounts of ruthenium, photometric, 23:21629
Pt—Ru, radiation effects on thermoelectric properties of, for use as thermocouples, thermal neutron, 21:24805 (EUR-3156.e)
Pt—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Pt—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Pt-base—Ru, radiation effects on composition and volume changes in, thermal neutron, 23:16497 (AERE-R-5837)
Pu—Ru, phase diagrams of, 21:32918
Pu—Ru, phase diagrams of, 21:45937
Pu—Ru, phase studies of, 22:2655
Pu—Ru, thermodynamic properties of intermetallic PuRu$_2$, 22:31463
Pu—Ru, thermodynamic properties of intermetallic PuRu$_2$, at 913 to 1078°K, measurement using emf cells, 25:58211 (LA-4758)
Pu—Ru, thermodynamics of intermetallic PuRu$_2$, 21:42729(R) (LA-3745)
PuC—Ru—UC, analysis for ruthenium, 22:7986 (AERE-R-5617)
Re—Ru, superconductivity of hcp, (E), 25:30433
Re—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Re—Ru, transition temperature of superconducting, (E), 23:27534
Re—Ru—W, brazing alloys of, for tantalum and tungsten, 22:19545(P)
Re—Ru—W, preparation for brazing tungsten and tantalum, 21:45881(P)
Rh—Ru, magnetic susceptibility at 4 to 300°K, 25:19874
Rh—Ru, magnetic susceptibility of, 24:25725 (ANL-7417, pp 85-104)
Rh—Ru, separation from nitric acid by solvent extraction using tridodecylamine, effects of plutonium on, 22:37862
Rh—Ru, superconductivity of, effect of spin fluctuations on, (E), 25:33196
Rh—Ru, thermal capacity of, 24:25725 (ANL-7417, pp 85-104)
Rh—Ru, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Rh—Ru—Ti, phase studies of, 23:18242
Ru—Ta, crystal structure, 21:496
Ru—Ta, hardening in monocrystals of, at 77 to 2000°K, solid-solution, 25:55457
Ru—Ta, phase transformation in near-equiatomic, properties and structure of martensitic, 21:43620 (COO-1198-469)
Ru—Ta, phase transformations in near-equiatomic, effects of temperature on, 25:13708
Ru—Ta, properties of, at 50 to 700 deg C, 21:496
Ru—Ta, thermionic properties of, relations with ruthenium content, 25:56350
Ru—Ta, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ru—Ta-base, hardening in solid solutions of, parameters controlling, 25:35384
Ru—Tc, magnetic susceptibility at 4 to 300°K, 25:19874
Ru—Tc, magnetic susceptibility of, 24:25725 (ANL-7417, pp 85-104)
Ru—Tc, phase studies of, 22:4807
Ru—Tc, thermal capacity of, 24:25725 (ANL-7417, pp 85-104)
Ru—Ti, stability of gaseous intermetallic, 25:35350
Ru—Ti, superconducting, fluctuation superconductivity in bulk Type-II, (E), 24:3280
Ru—Tm, crystal field potential in intermetallic compound TmRu$_2$ in, Moessbauer effect studies on, 21:10233 (IS-T-104)
Ru—Tm, crystal field potential in intermetallic, Moessbauer effect study of, 21:42208
Ru—Tm, crystalline electric field splitting in intermetallic TmRu$_2$ from thulium-169 Moessbauer effect, (E), 22:17806
Ru—U, analysis for ruthenium by controlled-potential coulometry, 24:4199
Ru—U, phase diagrams, 22:19561
Ru—U, phase diagrams, illustration of 600 to 2600°C, 22:48790
Ru—U, preparation and properties of intermetallic U$_2$Ru$_3$, 22:23739
Ru—U, thermodynamic properties of URu$_3$, 24:25802
Ru—UC, analysis for carbon, ruthenium, and uranium, 22:7986 (AERE-R-5617)
Ru—UC, analysis of cermets of, for ruthenium by controlled-potential coulometry, 24:4199
Ru—V, electronic transition in near-equiatomic, (E), 25:36339
Ru—V, NMR relaxation and line shape in, (E/T), 25:40832
Ru—V, phase transition of near-equiatomic, x-ray diffraction study of cubic—tetragonal, 25:55532
Ru—V, structural instability and enhanced superconductivity in, 25:33184
Ru—W, diffusion-annealing tests on, at 1700 and 1800°C for use as protective coating on tungsten, 21:9152
Ru—W, preparation and properties of high-strength, 21:32851(P)
Ru—W, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ru—Y, phase diagram of, statistical prediction of, 22:31396
Ru—Zr, diffusion in, effects of composition on mutual, 25:55452
Ru—Zr, properties of, mechanical and oxidation resistance, 25:27203 (INIS-mf-2)
Ru—Zr, stability of gaseous intermetallic, 25:35350
Ru—Zr, structure of intermetallic equiatomic, (E), 21:16971
Ru—Zr, thermal stability of intermetallic compounds of, 23:30050 (UCRL-18727)
Ru—Zr, thermodynamic properties of ZrRu$_2$, 24:44720
Ru—Zr, thermodynamics of phases in, 21:26836 (AFML-TR-67-108)
Ru—Zr-base, electric conductivity at 4.2 and 300°K, 23:8161 (ORNL-4370, pp 21-5)
Ru—Zr-base, electronic properties from low-temperature specific heat measurements, 21:13157 (ORNL-3970, pp 25-32)
RUTHENIUM BORIDES
  crystal structure of Ru$_2$B$_3$, 23:22688
  crystal structure of Ru$_2$B$_3$, 23:6757
RUTHENIUM BROMIDES
  separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702
RUTHENIUM CARBONYLS
  radiation effects on, recoil reactions in neutron, 23:17474
RUTHENIUM CHLORIDES
  complexes containing butyrates, preparation and structure of, 22:27517(R) (MIT-1965-63)
  crystal structure of RuCl$_3$, 21:46(R) (GA-5611)
  distribution of, between immiscible liquid phases of aluminum bromide—potassium bromide systems, 21:4607
  effects on intergranular corrosion of nickel alloys and stainless steel, 21:39164 (ORNL-3816)
  effects on radioinduced polymerization of butadiene, 22:33387
  ruthenium-99 Moessbauer isomer shifts in complexes of, 25:1335
  separation from fused lithium chloride—potassium chloride eutectics by column crystallization and zone melting, 23:16522
  separation from molten lithium chloride—potassium chloride eutectic by column crystallization and zone melting, 22:16670
  separation from uranium(IV) chlorides and uranium(IV) chloride—potassium chloride systems by zone refining, 21:19748
  separation of ions of, from metal ions by high-voltage electrophoresis using carboxylic and hydroxycarboxylic acids, 25:34702
  structure of cluster, 22:27517(R) (MIT-1965-63)
  uptake of ruthenium-106-labeled, by clams, 22:28324
RUTHENIUM CYANIDES
  reactions with electrolytes, paper electrophoretic studies on, 24:25064
RUTHENIUM FLUORIDES
  determination of volatile radioactive, method for, 22:25454 (CEA-N-616, pp 246-94)
  distribution in process stream during reprocessing of irradiated uranium dioxide fuels using bromine pentafluoride, 22:25443 (ANL-7375, pp 46-94)
  distribution in process stream during reprocessing of irradiated Zircaloy-clad plutonium dioxide—uranium dioxide fuels, 22:25443 (ANL-7375, pp 46-94)
  evaporation of, 24:36205 (ORNL-4586, pp 1-32)
  formation in MSRE exit gas, 21:21918 (ORNL-4076, pp 1-54)
  preparation of, 24:13998 (ORNL-4400, pp 31-56)
  preparation of, 23:19693 (ORNL-4344, pp 109-99)
  reactions with alkali metal and alkaline earth fluorides, 23:38040
  separation from gases by sorption on sodium fluoride beds, effects of temperature on, 23:19830 (ORNL-TM-2169)
  separation from plutonium fluoride by volatilization, 22:25443 (ANL-7375, pp 46-94)
  separation from plutonium hexafluoride by lithium fluoride sorption method, 23:40814(P)
  separation from plutonium hexafluoride by sorption methods, 24:174 (ANL-7575, pp 47-76)
  separation from plutonium hexafluoride by sorption on lithium fluoride, 23:26320 (ANL-7550, pp 23-34)
  separation from plutonium tetrafluoride by pyrohydrolysis and oxidation, 22:25443 (ANL-7375, pp 46-94)
  separation from uranium hexafluoride, 22:23106
  separation from uranium hexafluoride by selective sorption techniques, 21:32226(R) (K-1713)
  separation of plutonium hexafluoride from, by sublimation, 22:25443 (ANL-7375, pp 46-94)
  sorption by barium, calcium, or magnesium fluorides at 150°C, 22:25443 (ANL-7375, pp 46-94)
  sorption of fission product, by soda lime, 21:17703(R) (EURAEC-1785)
  stability of RuF$_5$ at 600 to 700°C, 23:45182 (ORNL-4396, pp 129-209)
  vapor pressure—temperature data for, 25:34602 (GAT-649)
RUTHENIUM HALIDES
  book: Halides of the Transition Elements, Halides of the Second and Third Row Transition Metals, 23:9399
RUTHENIUM HYDRIDES
  complexes with cyclopentadiene, Szilard—Chalmers reactions in, 22:25376(R) (PRNC-114)
RUTHENIUM IODIDES
  structure of, 22:27517(R) (MIT-1965-63)
RUTHENIUM IONS
  chromatographic behavior on cellulose impregnated with Primene JM-T hydrochloride, 23:17526
  effects on separation of zirconium from plutonium by solvent extraction, 21:40763 (LA-3743)
  radii in fluorides and oxides, 24:188
RUTHENIUM ISOTOPES
  accumulation by silts, effects of physicochemical properties on, 25:2362
  content in MSRE salt samples, 25:15625 (ORNL-4622, pp 60-118)
  content of seawater around Eniwetok Proving Grounds during 1958, 21:43416
  decay schemes for, tables on, 23:33331 (BNL-13595)
  determination in uranium fission products by distillation and γ spectroscopy, 25:20942
  determination of fallout, in water by sequential separation and β counting, 22:12248
  distribution in tissues of rats, 22:8474
  distribution of aerosol, analysis under LOFT conditions from failed simulated uranium oxide (UO$_2$) fuel elements of, 23:33066(R) (ORNL-4374)
  elimination from animals, physiochemical aspects of effects of chelating agents on, 23:22318(T) (AEC-tr-6944, pp 581-91)
  energy levels from (d,p) and (d,t) reactions, spectroscopic factors for, (E), 25:28374
  energy levels of even—even, perturbed angular correlation measurement of magnetic moment of Coulomb-excited first 2^+, (E), 24:47635
  excitation of even, oxygen-16 ions in ferromagnetic media, (E), 22:29241
  gamma spectra of fission product, 25:20942
  nuclear electric quadrupole moments, (T), 21:30026 (JINR-E4-3286)
  physicochemical properties of radioactive, in radioactive waste, 25:2362
  production by neutron irradiation of uranium dioxide, effects of metal acetylacetonate as collector on, 24:2266(R) (HMI-B-84)
  production of foils of, for nuclear research, 22:263
  production of stable, by US power reactors through 1990, 22:45245 (BNWL-716)
  production with 200 MeV protons, calculation of yields from spallation, 24:9594 (BNL-50195)
  separation of, 22:16420
  separation of fission-product, from irradiated fuels of Mo—UO$_2$, 25:29413 (CONF-691225)
  separation of radioactive, from aqueous wastes by sorption, 22:36018
  separation of trace amounts of, from aqueous solutions using chelating resins, 23:26331
  uptake by marine organisms, effects of physico-chemical form on, 23:24622
  yields from fast fission of plutonium-239, 23:23910(R) (IN-1277)
  yields in uranium-238 neutron fission at 14 MeV, cumulative, (E), 22:35325

- RUTHENIUM ISOTOPES Ru-92
  - beta decay of, half-life for, (E), 25:25715 (JINR-P6-5594)
- RUTHENIUM ISOTOPES Ru-93
  - beta decay of, γ spectra for, 23:42916(R) (UR-3591-10)
- RUTHENIUM ISOTOPES Ru-94
  - electron-capture decay of, half-life and γ spectra for, (E), 22:44707
  - electron-capture decay of, technetium-94 energy levels from, (E), 21:19252
  - energy levels from molybdenum $(\alpha,2n\gamma)$ reactions, spin-parity assignments for, (E), 25:46050
  - energy levels from molybdenum-92 $(\alpha,2n)$ reactions, (E), 22:46729(R) (AECL-3157)
  - energy levels from molybdenum-92 $(\alpha,2n)$ reactions, lifetimes and spin—parity assignments for, (E), 23:37262
  - energy levels of, calculation using inert core, (T), 23:37263
  - nuclear mass, (E), 25:20436
- RUTHENIUM ISOTOPES Ru-95
  - beta and electron-capture decay of, conversion-electron and gamma spectra from, (E), 25:50748
  - beta and electron-capture decay of, gamma spectra, log-ft values, and branching ratios for, (E), 25:12545
  - beta and electron-capture decay of, γ singles and coincidence spectra from, (E), 25:5683 (IS-T-391)
  - beta and electron-capture decay scheme of, β^+ and γ spectra for, (E), 22:35307
  - beta spectra of, calculation from Fermi theory, 21:25570 (USNRDL-TR-1101)
  - beta- and electron-capture-decay of, technetium-95 energy levels from, (E), 21:21528
  - energy levels and transitions from ruthenium-96 (p,d) reactions, (E), 25:20436
  - energy levels from molybdenum-92 (α,n) reactions, spin-parity assignments for, (E), 25:46051
  - energy levels of, 24:52566(R) (ORNL-4534)
  - gamma spectra of, use of lithium-drifted germanium spectrometers for measuring, 21:26147(R) (IDO-17222)
- RUTHENIUM ISOTOPES Ru-96
  - carbon-12 reactions (C-12,xn) at 80 MeV, γ spectra from, (E), 24:52563(R) (NP-18217)
  - deuteron reactions (d,p) at 4.4 to 14 MeV, excitation functions for, (E), 23:19255 (OU-LNS-69-1)
  - deuteron reactions (d,p) up to 14 MeV, excitation functions for, (E), 23:25933
  - deuteron reactions (d,p) with, excitation function for, (E) , 23:17107(R) (OU-LNS-68-1)
  - energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
  - energy level scheme from molybdenum-94 $(\alpha,2n)$ reactions, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy levels and transitions, (E), 25:23045
  - energy levels from α inelastic scattering and rhodium-96 decay, (E), 25:43943
  - energy levels from molybdenum $(\alpha,2n\gamma)$ reactions, spin-parity assignments for, (E), 25:46050
  - energy levels from molybdenum-94 $(\alpha,2n)$ reactions, (E), 22:46729(R) (AECL-3157)
  - energy levels of, spin—parity assignments for, 23:52143 (UCRL-18667, pp 1-64)
  - neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
  - neutron reactions (n,2n) at 14.4 MeV, activation cross section for, (E), 24:24575
  - neutron reactions (n,2n) at 14.7 MeV, cross section for, (E), 21:2671
  - neutron reactions (n,np) + (n,pn) + (n,d) at 14.4 MeV, activation cross section for, (E), 24:24574
  - neutron reactions (n,p) at 14.4 MeV, activation cross section for, (E), 24:24574
  - proton reactions (p,d) and (p,t) at 31.5 MeV, Q-values and angular distributions for, (E), 25:20436
  - proton reactions $(p,n\gamma)$ at 5.7 to 7.6 MeV, threshold energy for, (E), 25:12617
- RUTHENIUM ISOTOPES Ru-97
  - beta decay of, beta and gamma spectra, Q-value, and log ft of, (E), 24:20415
  - electron-capture decay of, branching ratios, conversion-electron and gamma spectra, and log-ft values from, (E), 25:50748
  - electron-capture decay of, γ singles and coincidence spectra for, (E), 23:23678
  - electron-capture decay of, technetium-97 energy levels from, (E), 21:35495
  - energy level scheme from (α,xn) reactions, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy levels and transitions in, (E), 24:20393
  - energy levels from molybdenum-94 (α,n) reactions, spin-parity assignments for, (E), 25:46051
  - energy levels from rhodium-97 decay, (E), 24:18435
  - preparation and processing of, development of methods for, 24:20950(R) (ORNL-TM-2910)
  - properties and availability of, for use as tracers in discharge measurements in high-head turbines and pumps, 21:45311 (TID-23737, pp 115-32)
  - properties of, for use in gamma detector calibrations, 23:11756 (EGG-1183-1401)
- RUTHENIUM ISOTOPES Ru-98
  - alpha inelastic scattering at 10 MeV, Coulomb excitation of states in, (E), 22:32615
  - energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
  - energy levels from Coulomb excitation by alpha particles and oxygen-16 ions, M1 and E2 branching ratios and gamma transitions of, (E), 22:32615
  - energy levels from molybdenum $(\alpha,2n\gamma)$ reactions, spin-parity assignments for, (E), 25:46050
  - energy levels from molybdenum-96 $(\alpha,2n)$ reactions, (E), 22:46729(R) (AECL-3157)
  - energy levels from rhodium-98 decay, (E), 24:18436
  - energy levels of, g factor of first 2^+, (E), 23:42906
  - energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
  - energy levels of, spin—parity assignments for, 23:52143 (UCRL-18667, pp 1-64)
  - ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
  - neutron reactions (n,2n) at 14.4 MeV, activation cross section for, (E), 24:24575
  - nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
  - nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
  - oxygen-16 inelastic scattering at 42 to 49 MeV, Coulomb excitation of states in, (E), 22:32615
  - proton reactions $(p,n\gamma)$ at 5.7 to 7.6 MeV, threshold energy for, (E), 25:12617
- RUTHENIUM ISOTOPES Ru-99
  - angular correlations in nickel, time-dependent perturbed, 21:44155 (UCRL-17701)
  - energy level scheme from (α,xn) reactions, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy level transitions of, gamma spectra from, (E), 21:23314 (BNL-994, pp 70-102)
  - energy levels from beta decay of rhodium-99, (E), 21:35494
  - energy levels from molybdenum-98 $(\alpha,3n)$ reactions, spin-parity assignments for, (E), 25:46051
  - energy levels from rhodium-99 decay, (E), 25:25762
  - energy levels from rhodium-99 decay, (E), 24:40608 (IN-1317, pp 69-151)
  - energy levels of, isomer shifts and changes in nuclear charge radii between, (E), 25:20403
  - energy-level spins and transitions from rhodium-99 decay, (E), 21:46754
  - energy-level spins and transitions from rhodium-99 decay, (E), 21:42673
  - energy-level transitions from alpha inelastic scattering at 4 to 7 MeV, (E), 21:19273
  - gamma decay, Moessbauer study of 90-keV M1—E2 mixed transition in, 22:3160 (BNL-11696)
  - hyperfine field in nickel, gamma—gamma perturbed angular correlation study of temperature dependence of, 23:27713 (UCRL-18675)
  - hyperfine magnetic fields at nuclei in nickel, measurements using time-dependent perturbed angular correlation, (E), 22:46263
  - Moessbauer effect for 90-keV M1/E2 transition in, testing time-reversal invariance by, (E/T), 22:46846
  - Moessbauer effect in, 21:15544 (BNL-11026)
  - Moessbauer effect in ruthenium compounds, isomer shifts of 90-keV, (E/T), 25:1335
  - Moessbauer effect in ruthenium metal, γ-decay symmetry tests with, 22:3160 (BNL-11696)
  - Moessbauer effect in solid solution with iron, observation of nonconservation of time parity by, (E), 22:53143
  - Moessbauer effect in, T invariance of electromagnetic interaction determination from, (E), 21:44246
  - neutron capture at 24 to 560 eV, cross section and resonance spin assignments for, (E), 22:48554
  - neutron capture at 24 to 560 eV, s-wave resonance spin assignments from, (E), 23:5889
  - neutron resonance spin assignments from measurements of neutron capture γ spectra, s-wave, (E), 23:5889
  - neutron resonances at 25 to 538 eV, spin assignments for, (E), 22:37340(R) (EANDC(E)-89(U))
  - nuclear hyperfine magnetic fields in nickel, temperature dependence of, (E), 21:29969(R) (UCRL-17299)
  - production from technetium-99 in red giants, (T), 21:37058
- RUTHENIUM ISOTOPES Ru-100
  - alpha inelastic scattering at 10 MeV, Coulomb exciation of states in, (E), 22:32615
  - energy level at 540 keV, g-factor for, (E), 22:48202(R) (BMwF-FBK-68-01)
  - energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
  - energy levels from beta and electron-capture decay of rhodium-100, (E), 21:42613(R) (NP-16992)
  - energy levels from Coulomb excitation by alpha particles and oxygen-16 ions, M1 and E2 branching ratios and gamma transitions of, (E), 22:32615
  - energy levels from molybdenum $(\alpha,2n\gamma)$ reactions, spin-parity assignments for, (E), 25:46050
  - energy levels from molybdenum-98 $(\alpha,2n)$ reactions, (E), 22:46729(R) (AECL-3157)
  - energy levels from rhodium-100 and technetium-100 decays, spin-parity assignments for, (E), 24:15926
  - energy levels from rhodium-100 decay, (E), 23:42922
  - energy levels from rhodium-100 decay, spins and parities of, (E), 22:18244
  - energy levels from technetium-100 decay, (E), 24:43353
  - energy levels of, gyromagnetic ratios of, (E), 21:2756
  - energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
  - energy levels of, spin—parity assignments for, 23:52143 (UCRL-18667, pp 1-64)
  - energy-level spins and transition multipolarities from rhodium-100 decay, (E), 22:27169
  - energy-level transitions from rhodium-100 decay, conversion coefficients and multipolarities of, (E), 23:9730 (KURRI-TR-41)
  - ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
  - meson (π) inelastic scattering at 0.01 to 10 GeV, Monte Carlo calculations in intranuclear cascade model for, (T), 24:42982 (JINR-P2-5118)
  - meson (π^+) reactions at 500 to 2500 MeV, calculations using intranuclear-cascade model, (T), 25:45941
  - meson (π^-) reactions at 500 to 2500 MeV, calculations using intranuclear-cascade model, (T), 25:45941
  - neutron reactions at 500 to 3000 MeV, calculations using intranuclear-cascade model, (T), 25:45941
  - neutron total cross section and resonance parameters at 1 to 1500 eV, (E), 25:15098
  - nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
  - nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
  - nucleon inelastic scattering at 0.01 to 10 GeV, Monte Carlo calculations in intranuclear cascade model for, (T), 24:42982 (JINR-P2-5118)
  - oxygen-16 inelastic scattering at 42 to 49 MeV, Coulomb excitation of states in, (E), 22:32615
  - preparation of highly pure, by implantation in carbon, 24:19165(R) (ORNL-TM-2889)
  - proton reactions at 500 to 3000 MeV, calculation using intranuclear-cascade model, (T), 25:45941
  - proton reactions below 5 GeV, cascade—evaporation model for analysis of low-energy particles produced in, (T), 25:17515 (JINR-P2-5549)
  - proton reactions up to several GeV, cascade calculations of double differential distributions of particles from, (T) , 25:41254(T) (ORNL-tr-2477)
  - proton reactions up to several GeV, cascade calculations of double differential distributions of particles from, (T) , 25:20018 (JINR-P2-5507)
- RUTHENIUM ISOTOPES Ru-101
  - energy level at 127 keV, g-factor for, (E), 22:48202(R) (BMwF-FBK-68-01)
  - energy level at 127 keV, lifetime of, (E), 25:34136
  - energy level at 127 keV, lifetime of, (E), 22:48202(R) (BMwF-FBK-68-01)
  - energy level scheme from (α,xn) reactions, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy level transitions of, gamma spectra from, (E), 21:23314 (BNL-994, pp 70-102)
  - energy levels from beta decay of rhodium-101, (E), 21:35494
  - energy levels from molybdenum-100 $(\alpha,3n)$ reactions, spin-parity assignments for, (E), 25:46051
  - energy levels from rhodium-101 decay, spin—parity assignments for, (E), 25:46035
  - energy levels from ruthenium-102 (γ,n) reactions at 26 MeV, half-lives for isomeric, (E), 25:5761
  - energy levels from technetium-101 decay, spin and parity of, (E), 25:17906
  - energy levels from technetium-101 decay, spin-parity assignments for, (E), 25:43899
  - energy levels of, gyromagnetic ratios of, (E), 21:2756
  - energy levels of, isomer shifts and changes in nuclear charge radii between, (E), 25:20403
  - energy levels of, upper limits on half-lives for, (E), 25:14992
  - energy-level transitions from alpha inelastic scattering at 4 to 7 MeV, (E), 21:19273
  - energy-level transitions from rhodium-101 decay, conversion coefficients and multipolarities for, (E), 25:46035
  - energy-level transitions from ruthenium-102 (γ,n) reactions at 26 MeV, gamma spectra from, (E), 25:5761
  - isomeric transition in, half-life for, (E), 22:32610
  - isomeric transitions in, gamma spectra from, (E), 25:18753
  - neutron capture at 24 to 560 eV, cross section and resonance spin assignments for, (E), 22:48554
  - neutron capture at 24 to 560 eV, s-wave resonance spin assignments from, (E), 23:5889
  - neutron resonance spin assignments from measurements of neutron capture γ spectra, s-wave, (E), 23:5889
  - neutron resonances at 25 to 538 eV, spin assignments for, (E), 22:37340(R) (EANDC(E)-89(U))
  - neutron total cross section and resonance parameters at 1 to 1500 eV, (E), 25:15098
  - reactivity worths in fast reactor spectra, (E/T), 25:15350
  - yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
  - yields from fast fission of uranium-235 in fuel burnup, 22:42588(R) (IN-1207)
  - yields from thermal neutron fission of plutonium-239 and plutonium-241, 23:23910(R) (IN-1277)
- RUTHENIUM ISOTOPES Ru-102
  - alpha inelastic scattering at 10 MeV, Coulomb exciation of states in, (E), 22:32615
  - deuteron reactions (d,p) at 14 MeV, angular distributions and Q-value for, (E), 23:1882 (WASH-1093)
  - deuteron reactions (d,p) at 14 MeV, angular distributions and ground-state Q-value for, (E), 23:17103(R) (ANL-7481)
  - deuteron reactions (d,p) at 14 MeV, proton spectra and angular distributions for, (E), 25:34151
  - deuteron reactions (d,p) at 4.4 to 14 MeV, excitation functions for, (E), 23:19255 (OU-LNS-69-1)
  - deuteron reactions (d,p) up to 14 MeV, excitation functions for, (E), 23:25933
  - deuteron reactions (d,p) with, excitation function for, (E) , 23:17107(R) (OU-LNS-68-1)
  - energy level at 2044.1 keV, spin and parity of, (E), 25:25744
  - energy level at 475 keV, g-factor for, (E), 23:44925
  - energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
  - energy level scheme for, (E), 24:15879
  - energy level scheme from molybdenum-100 $(\alpha,2n)$ reactions, (E), 25:7852 (UCRL-19530, pp 1-52)
  - energy levels at 2.6, 2.7, 2.8, and 2.9 MeV, (E), 24:10991
  - energy levels from Coulomb excitation by alpha particles and oxygen-16 ions, M1 and E2 branching ratios and gamma transitions of, (E), 22:32615
  - energy levels from decay of rhodium-102, spin—parity assignments for, (E), 23:25911
  - energy levels from molybdenum $(\alpha,2n\gamma)$ reactions, spin-parity assignments for, (E), 25:46050
  - energy levels from molybdenum-100 $(\alpha,2n)$ reactions, (E), 22:46729(R) (AECL-3157)

  - energy levels from rhodium-102 beta and electron-capture decay, spin—parity assignments for, (E), 25:12546
  - energy levels from rhodium-102 decay, (E), 24:52590
  - energy levels from rhodium-102 decay, spins and parities of, (E), 25:3671
  - energy levels of, gyromagnetic ratios of, (E), 21:2756
  - energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
  - energy levels of, spin—parity assignments for, 23:52143 (UCRL-18667, pp 1-64)
  - energy-level spins and transition multipolarities from rhodium-102 decay, (E), 22:27169
  - energy-level spins and transitions from rhodium-102 decay, (E), 22:14005
  - energy-level spins and transitions from rhodium-102 decay, (E), 22:27167
  - energy-level transitions from rhodium-102 beta and electron-capture decay, multipolarities, transition probabilities, and multipole-mixing ratios for, (E), 25:12546
  - ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
  - neutron activation resonance integrals for, measured relative to gold-197, (E), 25:31300 (CNEA-282)
  - neutron capture by, activation cross section for, (E), 24:5613
  - neutron reactions (n,α) at 14.8 MeV, activation cross sections for, (E), 21:14930(R) (ORO-3235-12)
  - neutron reactions with, ratio of resonance integral to activation cross section for thermal, 24:1786
  - neutron total cross section and resonance parameters at 1 to 1500 eV, (E), 25:15098
  - nuclear electric quadrupole moment of, calculations with anharmonic corrections to method of approximate second quantization, (T), 22:35411
  - nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
  - oxygen-16 inelastic scattering at 42 to 49 MeV, Coulomb excitation of states in, (E), 22:32615
  - production of carrier-free, from neutron irradiation of uranium oxide, 23:326
  - reactivity worths in fast reactor spectra, (E/T), 25:15350
  - yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
  - yields from fast fission of uranium-235 in fuel burnup, 22:42588(R) (IN-1207)
  - yields from thermal neutron fission of plutonium-239 and plutonium-241, 23:23910(R) (IN-1277)
- RUTHENIUM ISOTOPES Ru-103
  - abundance in Leningrad fallout, 1961 to 1965, 23:17602
  - accumulation by zooplankton in oceans and seas, 23:24582 (NP-17712)
  - accumulation of, by abiotic and biotic media in Nitelua River in Norway, 21:10749
  - activity in fallout from Dec. 28, 1966 Chinese nuclear explosion, 23:17581
  - activity of, in fallout, spectrometric measurement of γ, 21:8463
  - availability in peccaries following single injection of nuclear debris from Project Buggy fallout, 25:35088
  - beta decay of, β—γ circular polarization correlations from, (E), 24:33127
  - beta decay of, conversion electron spectra and γ—γ angular correlations for, (E), 25:23049
  - beta decay of, conversion electron spectra and γ—γ angular correlations for, (E), 25:56771
  - beta decay of, conversion-electron and γ spectra for, (E), 22:14047
  - beta decay of, gamma and conversion electron spectra from, (E), 24:22156
  - beta decay of, γ and conversion electron spectra for, (E), 23:37201
  - beta decay of, γ and x-ray spectra from, (E), 23:25901 (IN-1218, pp 73-138)
  - beta decay of, γ singles and coincidence spectra for, (E), 23:49412
  - beta decay of, γ singles and coincidence spectra from, (E), 24:15898
  - beta decay of, γ spectra and angular correlations for, (E), 24:43458
  - beta decay of, γ spectra from, (E), 23:21336
  - beta decay of, γ spectra from, (E), 24:40608 (IN-1317, pp 69-151)
  - beta decay of, γ-γ angular correlations for, (E), 25:20404
  - beta decay of, γ-γ angular correlations in, (E), 22:27170
  - beta decay of, γ-γ angular correlations in, (E), 22:30044
  - beta decay of, sum coincidence spectra from, (E), 25:5714
  - beta decay scheme, (E), 23:40045
  - beta decay scheme, (E), 24:43403
  - content and distribution in fallout from third and fifth Chinese nuclear explosions, 22:51131
  - content and distribution in lower troposphere from nuclear tests, seasonal variations in, 23:11444 (BNWL-481-2, pp 1-126)
  - content in atmosphere in Fayetteville, Arkansas following Dec. 24, 1967 Chinese nuclear explosion, 24:7531
  - content in atmosphere near sea surface east of Barbados, British West Indies, 23:49947 (BNWL-1051(Pt.2), pp 104-8)
  - content in atmosphere, effect of particle size on, 21:14332
  - content in atmospheric precipitation in Leningrad, 1961 to 1965, 24:7524(T) (UCRL-Trans-10403)
  - content in Bavarian surface waters, 23:9547
  - content in emissions from Redox 291-S Stack, 21:30659 (HW-67520)
  - content in environment from fallout of Kiwi-A reactor, 21:16342 (UCLA-12-615)
  - content in environment near Savannah River Plant, 21:16336(R) (DPST-67-30-1)
  - content in fallout from Dec. 1966 Chinese nuclear explosion, 23:6225
  - content in fallout from third and fifth Chinese nuclear explosions, 21:17750
  - content in fallout of German Democratic Republic after Chinese nuclear test, 1967, 23:47649
  - content in fallout, lithium-drifted silicon beta spectrometers for determining, 22:45331
  - content in German atmospheric precipitation, 1957 to 1968, 23:35340
  - content in global atmosphere and rainwater, 1954 to 1969, 24:11702 (AERE-R-6212)
  - content in ground-level atmosphere at Aspendale, Australia, Sept. 1967 to May 1968, 24:5754
  - content in ground-level atmosphere near Moscow, 1962 to 1967, 24:11700(T) (AEC-tr-7128, pp 163-79)
  - content in irradiated Molten Salt Breeder Reactor fuel, 22:25374 (ORNL-4229, pp 22-49)
  - content in monthly precipitation in US cities, 1961 to 1964, 22:25530 (HASL-193, pp II.1-30)
  - content in Moscow atmosphere and food products, 1965 to 1966, 22:23163 (A-AC-82/G/L-1192)
  - content in near-sea surface atmosphere above Caribbean Sea, 24:14075 (BNWL-1051(Pt.1), pp 30-4)
  - content in northeast Pacific Ocean from Sept. 1961 weapons tests, 22:2255
  - content in plants grown on ejects from the Sedan thermonuclear cratering detonation, 21:26440
  - content in precipitation in U.S. from 1961 to 1964, 21:45612(R) (HASL-183(App.))
  - content in rainwater at selected US sites, data tabulations on, 1957 to 1967, 22:14588(R) (HASL-184(App.))
  - content in Rhine basin mud and water, measurement of, 23:38092 (EUR-3741(Vol.1))
  - content in seawater in Atlantic Ocean near Barbados, W. I., effects of depth on, 23:49961 (BNWL-1051(Pt.2), pp 32-5)
  - content in soil from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  - content in spent fuel elements, irradiation history calculations from γ spectra of, 23:45143
  - content in stratospheric fallout from Chinese nuclear test of May 1965, 21:3186
  - content in surface soils near Leningrad, USSR, 1954 to 1965, 25:15757(T) (AEC-tr-7214, pp 21-6)
  - content of bivalve mollusks in North Carolina following Chinese nuclear tests in May and December, 1966, 23:18012 (CONF-670503-, pp 493-504)
  - content of feces, milk, and urine of dairy cattle following ingestion of Schooner fallout, 25:13396 (UCRL-72511)
  - content of human diet, 21:43414
  - content of hydrobionts in Black Sea, measurement of, 21:43376
  - content of plankton in Pacific Ocean, 23:24580 (A-AC.82/G/L-1254, pp 13-17)
  - content of plankton in Pacific Ocean following nuclear testing in 1966, 23:33665(T) (JPRS-47899)
  - content of plants in South Africa during 1967, 23:6450 (PEL-181)
  - content of seawater during 1962 to 1964, determination by gamma spectrometry, 23:33692 (CEA-R-3698)
  - content of seawater in North Pacific Ocean, effects of depth and latitude on, 23:49960 (BNWL-1051(Pt.2), pp 27-32)
  - content of urine from cattle following single ingestion of fallout debris from nuclear cratering event, 25:488 (UCRL-72636)
  - content of vegetation during 1968 to 1969, fallout, 25:21643
  - content of zooplankton in Pacific ocean, 24:12030(T) (AEC-tr-7128, pp 59-61)
  - content of zooplankton in Pacific Ocean from fallout, 24:12060(T) (AEC-tr-7128, pp 62-5)
  - content of zooplankton near Tuamotu Island, 23:24586
  - content of, from fallout in human beings, 21:16365
  - content of, in cows milk, effects of various pasture conditions on, 21:6508
  - content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
  - content ratio to rhodium-103 in Albany, Oregon, atmosphere, Dec. 1968 to June 1969, 24:14082 (RLO-1750-54, pp 20-4)
  - decay of 40-day, (E), 21:15878(R) (MIT-905-81)
  - decay of isomeric, γ spectra and half-life for, (E), 23:4022
  - deposition in MSRE core, 23:19693 (ORNL-4344, pp 109-99)
  - deposition in MSRE fuel and heat transfer systems, 23:21501 (ORNL-4344, pp 1-52)
  - deposition on earth's surface in Leningrad District, 1954 to 1965, 22:21194 (A-AC-82/G/L-1171)
  - deposition on graphite and Hastelloy N samples from MSRE core, 25:15625 (ORNL-4622, pp 60-118)
  - deposition on grass in northern California following Chinese nuclear test of December 28, 1966, 21:39375 (UCRL-70301)
  - desorption mechanisms at 200 to 1400°C of recoil fission product, from graphite, 23:16550
  - detection and measurement in fallout at Pinstech, Pakistan after May 9, 1966 Chinese nuclear explosion, 22:51097 (PINSTECH/HP-3)
  - detection in radioecology studies, use of Cherenkov counting for, 25:2565
  - detection of, in blood and testes of animals and humans, γ spectrometric method for, 21:12886
  - detection of, in marine alga Sargassum, 21:10737
  - determination in dissolved uranium dioxide—calcium-stabilized zirconium dioxide, 23:4521 (IN-1223)
  - determination in environmental samples, 22:16420
  - determination in fallout, β counting method for, 25:26181
  - determination in fission product mixtures by radiochemical separation and γ spectrometry, 23:13669 (BNWL-715(Pt.2), pp 1-149)
  - determination in fission product solution by gamma spectrometry, 22:25455 (CEA-N-616, pp 295-368)
  - determination in irradiated MTR fuel by gamma spectrometry as measure of burnup, 25:46434 (FMRB-36/71)
  - determination in MSRE fuel salt, radiochemical, 24:46307 (ORNL-4548, pp 93-186)
  - determination in MSRE fuel, exit gas, and core graphite, 21:21918 (ORNL-4076, pp 1-54)
  - determination in MSRE heat exchanger by lithium-activated germanium γ spectrometry, 23:9306 (ORNL-4343, pp 62-84)
  - determination in plutonium dioxide by gamma spectroscopy, 23:16 (PG-Report-845)
  - determination in Project Gasbuggy chimney gas, 23:31451 (UCRL-50634)
  - determination in seawater, 22:10170 (CEA-R-3284)
  - determination in uranium oxides by neutron activation and γ spectrometry, 24:16464
  - determination of chemical and physical forms of, in Columbia River during Hanford reactor shutdown, ion exchange studies on, 23:11444 (BNWL-481-2, pp 1-126)
  - determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
  - determination of, methods for, 21:14172
  - diffusion coefficient measurements in DIDO 1A, analysis of, 22:37525 (AERE-R-3912)
  - diffusion in bituminous materials and cements, 23:40967 (CEA-R-3751)
  - distribution and characteristics of, in Operation Plumbbob fallout, 21:1461 (WT-1488)
  - distribution and retention in tissues of mammals following uptake by ingestion or through skin abrasions, 25:23997(T) (JPRS-52583, pp 7-11)
  - distribution in grape tissues and products in France, fallout, 24:9808
  - distribution in irradiated graphite-coated fuel particles, radiochemical methods for determination of, 21:27890 (EUR-3271.d)
  - distribution in MSRE after 32,000 Mwhr, 22:47112 (ORNL-4254, pp 88-173)
  - distribution in Olympic National Park environment, 23:11444 (BNWL-481-2, pp 1-126)
  - distribution in tissues of peccaries following ingestion of debris from Schooner Event in Plowshare Project, 25:46690
  - distribution in tissues of swine following field exposure to nuclear debris at Schooner Event site, fallout, 25:35090
  - dose to Marshallese following nuclear tests, 23:29708 (BNL-13559)
  - effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
  - effects on uranium fluorination in beryllium fluoride—lithium fluoride—uranium tetrafluoride—zirconium fluoride by fluorine—nitrogen mixture, 23:352 (ORNL-4272, pp 1-33)
  - energy levels from (d,p) reactions, (E), 25:34151
  - energy levels from ruthenium-102 (d,p) reactions, spectroscopic factors for, (E), 24:43118(R) (ANL-7620)
  - energy levels from ruthenium-102 (d,p) reactions, (E), 23:1882 (WASH-1093)
  - energy levels from ruthenium-102 (d,p) reactions, spectroscopic factors for, (E), 23:17103(R) (ANL-7481)
  - energy levels from ruthenium-104 (d,t) reactions, spin—parity assignments for, (E), 24:40654
  - energy levels from ruthenium-104 (γ,n) reactions at 26 MeV, half-lives for isomeric, (E), 25:5761
  - energy levels from technetium-103 decay, (E), 25:5683 (IS-T-391)
  - energy-level transitions from ruthenium-104 (γ,n) reactions at 26 MeV, gamma spectra from, (E), 25:5761
  - energy-level transitions in, multipolarities of, (E), 23:4022
  - evaluation for use as ground water tracer, 22:49038
  - excretion in feces and urine of peccaries following single ingestion of nuclear debris from Schooner Event, quantitative comparison of fallout, 25:35089
  - excretion in feces of dogs, 24:16951 (UCRL-50703)
  - fallout at selected U.S. stations, 1961 to 1963, 21:41019(R) (HASL-182)
  - fission product activity in molten salt fuel in-pile loop, analysis of radiation effects on, 22:48736 (ORNL-4254, pp 174-82)
  - fission product release from silicon carbide (SiC)-coated uranium carbide (UC_2) and uranium oxide (UO_2) at 1700 and 2000°C, analysis of, 22:42200(R) (ORNL-4200)
  - fractionation in atmosphere during nuclear testing, 23:49948 (BNWL-1051(Pt.2), pp 108-10)
  - gamma spectra in presence of ruthenium-106, least-squares analysis of, 21:28243
  - half life of, 25:39045
  - half-life in human chest following accidental inhalation, determination of, 23:6465
  - isomeric transition in, half-life for, (E), 22:32610
  - isomeric transition in, half-life for, (E), 23:23706
  - measurement in PRTR plutonium oxide (PuO_2)—uranium oxide (UO_2) fuel element failure on September 29, 1965 of, analysis of, 22:32744 (BNWL-SA-668)
  - metabolism in beagle dogs following ingestion of nuclear debris from Project Cabriolet, 25:29456
  - metabolism in peccaries following ingestion of debris from Schooner Event in Plowshare Project, 25:46690
  - metabolism in rats, determination of, by whole-body counting, 21:28394
  - monitoring in atmosphere at Savannah River Plant during 1969, 24:25473(R) (DPST-70-30-1)
  - monitoring in environs of Savannah River Plant, 24:2654 (DPST-69-30-2)
  - monitoring in environs of Savannah River Plant, 24:25473(R) (DPST-70-30-1)
  - monitoring in Japan during 1961 to 1965, 21:36615
  - monitoring in water at Savannah River Plant during 1969, 24:25473(R) (DPST-70-30-1)

neutron reactions (n,γ) with, ruthenium-104 gamma-ray multiplicities and isomeric cross section ratios from, (T), 21:2736
penetration into MSRE and pyrolytic graphite, γ spectrometric study of in-pile, 23:9306 (ORNL-4343, pp 62-84)
precipitation by barium chromate, effects of EDTA on, 23:28990
preparation by thermal-neutron irradiation of dipotassium pentachloronitrosylruthenate, 24:29356
production by US power reactors through 1990, 22:45245 (BNWL-716)
production of, ORNL short-lived fission products program for, 25:46531 (CONF-700646-, pp 34-43)
reactions of recoil atoms of, with aluminum, chromium, cobalt, iron, and rhodium complexes with 2,4-pentanedione, 23:286
reactions of recoil, with metal—2,4-pentanedione complex, 23:38005
release from thorium-containing carbide and oxide fuels on combustion, 24:27190(T) (ORNL-tr-2303)
release to soil from organic debris in forest as function of decomposition mode and time, 25:2528
removal from PRTR heavy water primary system, measurement of, 22:22816 (HW-75557(Rev.)(Del.))
separation from fission products by reactions with ferrocene, 24:11549 (IA-1190, pp 93-122)
separation from irradiated aluminum—uranium and uranium—zirconium fuels by chlorination and pyrohydrolysis, 25:26332(T) (ORNL-tr-2410, pp 98-120)
separation from irradiated aluminum—uranium and uranium—zirconium fuels by chlorination and pyrohydrolysis, 25:6395 (CEA-N-1341, pp 337-61)
separation from irradiated aluminum—uranium fuels by halide volatility method, 25:32039 (CEA-N-1419, pp 271-96)
separation from irradiated uranium dioxide pellets by desorption using barium chloride bed, 25:21108
separation from liquid waste solutions, effects of iron compounds on, 25:51564 (A/CONF.49/P-621)
separation from nitric acid solutions by solvent extraction using 4-methyl-3-penten-2-one, 23:373
separation from plutonium dioxide—uranium dioxide fuels, solvent extraction method for, 22:27845 (CEA-N-816, pp 150-276)
separation of neptunium from, by solvent extraction using tridodecylamine and ion exchange, 22:27848 (CEA-N-816, pp 359-414)
sorption on river sediments, effects of particle size on, 23:31423
spectra of nuclear explosion produced, estimation of nuclide fractionation from, 22:42881
transport in aquatic environment, (E), 21:15996
transport in ecosystems, model for hydraulic, 24:20875 (ORO-490-20)
transport in soils, effects of physicochemical processes on, 25:2364
transport of, by leafy vegetables, 21:12805
uptake and retention of, following ingestion in dogs, whole-body counting of, 24:16951 (UCRL-50703)
uptake by aquatic animals from fallout of underground nuclear explosions, 23:41306 (UCRL-50596)
uptake by aquatic molluscs and plants, effects of concentration in water on concentration factor for fallout, 25:2548
uptake by green plants following contamination of environment by fresh fallout, 24:34198
uptake by man following inhalation, 22:33715 (SZS-15/67)
use as tracer to determine radioisotope content of river silts, 23:13859
use as tracer to measure ion diffusion in sand, 23:442
yield from spontaneous fission of californium-252, (E), 25:34147
yields from 14-MeV neutron fission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30825
yields from fission of uranium-233 and uranium-235, 21:27899
yields from neutron fission of uranium-235, γ spectrometric studies on, 25:46540 (IN-1407, pp 185-253)
yields from nuclear explosions, effects of, on radiation dose to man, 22:23511 (UCRL-70788)
yields from spontaneous fission of uranium-238, (E), 25:28384
yields from the photofission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30842
yields in spontaneous fission of uranium-238, (E), 21:14930(R) (ORO-3235-12)
yields relative to barium-140 from fission of plutonium-239 or uranium-235, 25:39470(R) (ANL-7750)

RUTHENIUM ISOTOPES Ru-104
alpha inelastic scattering at 10 MeV, Coulomb exciation of states in, (E), 22:32615
determination in seawater, 22:10170 (CEA-R-3284)
deuteron reactions (d,p) at 14 MeV, angular distributions and Q-value for, (E), 23:1882 (WASH-1093)
deuteron reactions (d,p) at 14 MeV, angular distributions and ground-state Q-value for, (E), 23:17103(R) (ANL-7481)
deuteron reactions (d,p) at 14 MeV, proton spectra and angular distributions for, (E), 25:34151
deuteron reactions (d,p) at 4.4 to 14 MeV, excitation functions for, (E), 23:19255 (OU-LNS-69-1)
deuteron reactions (d,p) up to 14 MeV, excitation functions for, (E), 23:25933
deuteron reactions (d,p) with, excitation function for, (E), 23:17107(R) (OU-LNS-68-1)
deuteron reactions (d,t) at 17 MeV, angular distributions for, (E), 25:28374
deuteron reactions (d,t) at 17 MeV, triton spectra from, (E), 24:40654
energy level of, schematic model calculation of quadrupole moment of first 2^+, (T), 24:49913
energy levels from Coulomb excitation by alpha particles and oxygen-16 ions, M1 and E2 branching ratios and gamma transitions of, (E), 22:32615
energy levels from technetium-104 decay, spin—parity assignments for, (E), 25:5796
energy levels of, g factor of first 2^+, (E), 23:42906
energy levels of, magnetic moment of first 2^+ collective, (E), 22:13994 (JINR-P4-3611)
energy-level transitions in, gamma-ray multiplicities and isomeric cross section ratios for, (T), 21:2736
helium-3 reactions (He-3,d) 18 MeV, angular distributions for, (E), 25:3701
helium-3 reactions (He-3,d) at 18 MeV, angular distributions for, (E), 25:15022
hyperfine magnetic fields at nuclei in cobalt, iron, and nickel, measurements using ion implantation with perturbed angular correlation method, (E), 22:46267
hyperfine magnetic fields at nuclei in magnetized gadolinium below Curie point, measurements using ion implantation with perturbed anbular correlation technique, (E), 22:46267
ion implantation in iron hosts, anomalous hyperfine fields from, 21:44149 (COO-7-0423)
neutron reactions (n,2n) at 12 to 18 MeV, total cross sections and isomeric cross-section ratios for, (E), 25:17946
neutron reactions (n,2n) at 14.4 MeV, activation cross section for, (E), 24:24575
neutron reactions (n,α) at 14.8 MeV, activation cross sections for, (E), 21:14930(R) (ORO-3235-12)
neutron total cross section and resonance parameters at 1 to 1500 eV, (E), 25:15098
nuclear electric quadrupole moment of, measurement using Coulomb excitation, (E/T), 22:46830
nuclear hyperfine interaction in iron, measurements using Coulomb excitation with recoil implantation and perturbed γ-γ angular correlation technique, (E), 22:46803
oxygen-16 inelastic scattering at 42 to 49 MeV, Coulomb excitation of states in, (E), 22:32615
oxygen-18 reactions (O-18,3n) at 55 to 75 MeV, isomeric cross-section ratios for, (E), 24:24594
reactivity worths in fast reactor spectra, (E/T), 25:15350
yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
yields from fast fission of uranium-235 in fuel burnup, 22:42588(R) (IN-1207)
yields from thermal neutron fission of plutonium-239 and plutonium-241, 23:23910(R) (IN-1277)

RUTHENIUM ISOTOPES Ru-105
beta decay of, rhodium-105 energy-level spins and transitions from β-γ and γ-γ coincidence methods, (E), 21:23510
determination in seawater, 22:10170 (CEA-R-3284)
energy levels from (d,p) reactions, (E), 25:34151
energy levels from ruthenium-104 (d,p) reactions, (E), 23:1882 (WASH-1093)
energy levels from ruthenium-104 (d,p) reactions, spectroscopic factors for, (E), 24:43118(R) (ANL-7620)
energy levels from ruthenium-104 (d,p) reactions, spectroscopic factors for, (E), 23:17103(R) (ANL-7481)
gamma spectra of, 21:12285(R) (ORNL-4039)
separation from fission products by reactions with ferrocene, 24:11549 (IA-1190, pp 93-122)
yield in thermal neutron fission of uranium-235, (E), 22:29983 (MIT-905-108, pp 1-32)
yields from 14-MeV neutron fission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30825
yields from the photofission of thorium-232 and uranium-238 in the symmetric region, cumulative, (E), 24:30842

RUTHENIUM ISOTOPES Ru-106
abundance in Leningrad fallout, 1961 to 1965, 23:17602
abundance relative to uranium-238 in uranium dioxide fuel rods, effects of burnup on, 24:1049(R) (GEAP-10079)
accumulation by dragonfly larvae, effects of instar on, 22:28393
accumulation by fishes in East Germany, 24:48468 (SZS-7/70)
accumulation by fresh-water chironomids and molluscs, 23:29481
accumulation by marine organisms in aquariums and natural ecosystems, 23:26783
accumulation by marine organisms, effects of physicochemical form on, 25:18894
accumulation by molluscs in Panama following nuclear excavation of interoceanic canal, 24:39453 (BMI-171-33)
accumulation in molluscs, measurement for determining contamination of environment, 24:34221
accumulation of, by marine hydrobionts, 21:8806(T) (AEC-tr-6641, pp 78-104)
activity in Swedish ground-level atmosphere before and after Chinese nuclear test, 1967, 24:4382 (FOA-4-4390)
activity measurements for fuel burnup determination, 24:48863 (SGAE-PH-98/1970)
beta decay of, γ linear polarization and γ—γ directional correlations from, (E), 23:8992
beta decay scheme of, 4π β—γ coincidence measurement of, 25:15914 (CEA-R-4131)
book: Problems of Distribution and Experimental Evaluation of Permissible Levels of Cesium-137, Strontium-90, and Ruthenium-106, 23:4902
chemical states in seawater, electrochromatographic studies of, 21:27948
contamination distribution in liquid sodium and on stainless steel of, tables of, 21:42729(R) (LA-3745)
contamination of cement copper by, during copper ore processing using nuclear explosives, 23:47587 (ORNL-TM-2689)
content and distribution in lower troposphere from nuclear tests, seasonal variations in, 23:11444 (BNWL-481-2, pp 1-126)
content and distribution in USSR soils, 23:453
content and distribution of, in Hoytville and Mermill soils, 21:10722(R) (COO-414-4)
content and particle size distribution in bottom sediments of Clinch and Tennessee Rivers, 21:16028 (ORNL-3721(Suppl.2A))
content and vertical distribution in bottom sediments of Clinch River, 21:16029 (ORNL-3721(Suppl.2B))
content in air samples from Purex process building, 22:12474 (BNWL-643)
content in airborne dust of Japan, 21:20173 (NP-16551)
content in algae in Black Sea, 21:36605
content in atmosphere from Star Dust Program, 21:6039
content in atmosphere in Fayetteville, Arkansas following Dec. 24, 1967 Chinese nuclear explosion, 24:7531
content in atmosphere near sea surface east of Barbados, British West Indies, 23:49947 (BNWL-1051(Pt.2), pp 104-8)
content in atmosphere over Moscow, 1962 to 67, 25:34748
content in atmospheric precipitation in Leningrad, 1961 to 1965, 24:7524(T) (UCRL-Trans-10403)
content in Bavarian surface waters, 23:9547
content in Bikini Atoll soils, measurement of, 23:6217 (HASL-190)
content in biota of Clinch and Tennessee Rivers, from disposal of low-level wastes, 21:22117 (ORNL-4035)
content in birds of alpine Colorado watershed, 21:26387 (COO-1445-5)
content in body of man, minimum detectable, 21:36402
content in bottom sediments of Columbia River estuary, 25:39596 (TID-25724)
content in Bucharest atmosphere, 1964 to 1966, 22:51103
content in cement copper product from copper ores fractured by nuclear explosives, 23:26329(R) (ORNL-TM-2567)
content in Clinch and Tennessee River waters, 21:3174(R) (ORNL-3941)
content in Clinch River sediments, 21:22117 (ORNL-4035)
content in copper ores fractured by nuclear explosives, 23:362 (ORNL-4272, pp 187-91)
content in deer browse in Georgia Piedmont, 21:20113
content in deer liver and rumen, 21:22414
content in emissions from Redox 291-S Stack, 21:30659 (HW-67520)
content in environment from fallout of Kiwi-A reactor, 21:16342 (UCLA-12-615)
content in environment near Savannah River Plant, 21:16336(R) (DPST-67-30-1)
content in fallout, lithium-drifted silicon beta spectrometers for determining, 22:45331
content in fallout, use of γ-ray spectroscopy to measure, 21:36147 (NP-16800)
content in fish, silts, and water in Ashford, N. Y. fuel reprocessing plant environs, 1965 through 1967, 24:2322
content in global atmosphere and rainwater, 1954 to 1969, 24:11702 (AERE-R-6212)
content in ground water and migration in soils from Hanford waste disposal, 21:36323 (BNWL-432)
content in ground water beneath Hanford Project, surveillance of, 22:40208 (BNWL-835)
content in ground water in flooded nuclear craters, effects on water quality, 23:15997 (UCRL-50531)
content in ground waters at Hanford, 22:19085(R) (BNWL-687)
content in ground-level atmosphere near Moscow, 1962 to 1967, 24:11700(T) (AEC-tr-7128, pp 163-79)
content in Hanford area ground waters from plant waste disposal, Jan. to July 1969, 24:7609 (BNWL-1233)
content in Hanford area groundwater, 23:33261 (BNWL-1047)
content in Hanford area unconfined ground water, 23:13854 (BNWL-984)
content in Hanford ground waters, effects on land requirements, 23:11647 (ISO-668)
content in irradiated hyperstoichiometric and hypostoichiometric uranium carbide, 24:14917
content in Japanese coastal silts, 1964 and 1965, 22:40217
content in Japanese rainwater following Chinese nuclear explosions, 24:9529
content in liquid radioactive waste effluents from Nuclear Fuel Services West Valley reprocessing plant, 25:54753
content in monthly precipitation in US cities, 1960 to 1964, 22:25530 (HASL-193, pp II.1-30)
content in Moscow atmosphere and food products, 1965 to 1966, 22:23163 (A-AC-82/G/L-1192)
content in mule deer tissues, use of, to indicate amount of environmental contamination, 21:20111 (COO-1156-18)
content in near-sea surface atmosphere above Caribbean Sea, 24:14075 (BNWL-1051(Pt.1), pp 30-4)
content in Northeast Pacific Ocean ecosystem, June 1967, 23:13669 (BNWL-715(Pt.2), pp 1-149)
content in northeast Pacific Ocean from Sept. 1961 weapons tests, 22:2255
content in northeast Pacific Ocean in relation with depth, (E), 24:14099 (RLO-1750-54, pp 71-4)
content in northwest Atlantic Ocean waters, (E), 25:37504 (BNWL-1551(Pt.2), pp 23-6)
content in Pacific Ocean, 21:38815(R) (BNWL-293)
content in pasture grasses in Hanford area during 1965, 21:34649 (BNWL-316(App.))
content in plants and soil at Picatinny Arsenal area, effect of nuclear weapons testing on, 1963 to 1966, 21:43046(R) (AD-651495)
content in plants grown on ejects from the Sedan thermonuclear cratering detonation, 21:26440
content in potato plants exposed to fallout, Germany, 1964, 24:11455

content in precipitation in U.S. from 1960 to 1964, 21:45612(R) (HASL-183(App.))
content in rainwater at selected US sites, data tabulations on, 1957 to 1967, 22:14588(R) (HASL-184(App.))
content in Rhine basin mud and water, measurement of, 23:38092 (EUR-3741(Vol.1))
content in seawater in Atlantic Ocean near Barbados, W. I., effects of depth on, 23:49961 (BNWL-1051(Pt.2), pp 32-5)
content in seawater, design of sensitive γ radiation detectors for determining, 22:2256
content in seawater, effects of sea-disposed liquid radioactive wastes on, (E), 25:13189 (CEA-CONF-1712)
content in sediments from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
content in sediments from Ribble River, in England, 21:10484
content in silt, seawater, and marine life in Irish Sea, effect of waste disposal on, 21:15995
content in soil from Bravo Crater at Bikini Atoll, 23:13669 (BNWL-715(Pt.2), pp 1-149)
content in soils of northeast and east-central Georgia, 22:48939
content in spent fuel elements, irradiation history calculations from γ spectra of, 23:45143
content in surface soils near Leningrad, USSR, 1954 to 1965, 25:15757(T) (AEC-tr-7214, pp 21-6)
content in surface soils near Moscow, USSR, 1963 to 1966, 25:15777(T) (AEC-tr-7214, pp 9-20)
content in Tennessee River, three-year study on, 25:21163
content in unconfined ground waters at Richland Area, Wash., Jan. through June 1970, 25:23704 (BNWL-1539)
content in waste solutions discharged to Clinch River from ORNL, 21:16029 (ORNL-3721(Suppl.2B))
content in waste solutions discharged to Clinch River from ORNL, 21:16028 (ORNL-3721(Suppl.2A))
content of air, food, and water, determination of maximum permissible, 23:11940(T) (AEC-tr-6972)
content of algae in White Oak Lake, 22:6772 (ORNL-4168, pp 61-118)
content of algae, seafood, seawater, and silts from British coastal waters during 1968, 24:21099 (FRL-5)
content of animals, bottom sediments, plants, and water at Bikini and Eniwetok in 1964, 23:17977 (CONF-670503-, pp 346-54)
content of aquatic invertebrates, removal by EDTA, 22:12847(T) (CEA-tr-R-1906)
content of atmosphere in Colorado during 1961 to 1967, 22:21459(R) (COO-1156-28)
content of atmosphere over Soviet Union during 1965 and 1966, 25:16065(T) (AEC-tr-7214, pp 70-81)
content of bacteria, effects of strain on, autographic method for determining, 24:559
content of cattle and mule deer at Nevada Test Site during 1969, 24:48467(R) (SWRHL-102-r)
content of cement copper product from copper ore processing using nuclear explosives, 24:19053 (ORNL-TM-2888)
content of Clinch River during 1968, 23:35738
content of commercial food and farm produce in Hanford environs during 1967, 23:33702 (BNWL-983(App.))
content of Crustacea in Gulf of Mexico during 1965, 23:17961(T) (AEC-tr-7030, pp 49-64)
content of dairy feeds in Colorado during 1967, 22:21460(R) (COO-1171-82)
content of deer, fish, and racoon from Western New York Nuclear Service Center site, 24:31984 (DOCKET-50201-26)
content of eucalyptus leaves and grass at Lawrence Radiation Laboratory, Livermore, 24:41870
content of fish in White Oak Lake, 25:21624 (ORNL-4634, pp 104-10)
content of flesh and shells of mussels, effects of cooking on, 25:18896
content of food samples in India during 1963 to 1965, 22:40656 (AEET-273)
content of forest litter in comparison to tree parts in Russia in 1964 to 1965, 24:25421 (A-AC-82/G/L-1302)
content of herbs, vegetables, and wheat in Soviet Union from fallout, 24:12062(T) (AEC-tr-7128, pp 152-62)
content of human diet, 21:43414
content of hydrobionts in Black Sea, measurement of, 21:43376
content of laverbread prepared from sea algae, 24:21099 (FRL-5)
content of liver and rumen in mule deer in Colorado during 1963 and 1964, 22:21459(R) (COO-1156-28)
content of lower intestines of man following consumption of laverbread made from contaminated algae, 24:36750
content of man in Finland from artificial sources, 25:18931 (NYO-3446-14, Paper 30)
content of man, relation of, to content in seawater-seafood and soil-vegetable food chains, 24:21093 (CEA-CONF-1341)
content of marine algae and invertebrates in Amchitka, Alaska, 25:16073(R) (BMI-171-113)
content of marine algae following radioactive waste disposal, 25:18939
content of marine organisms in Adriatic Sea, 23:43716(R) (NP-17533)
content of marine organisms, effects of chemical and physical properties on, 24:34223
content of molluscs, plankton, and red algae in Japan, 23:2828
content of organisms in seawater, comparison between soluble and insoluble forms of, 25:18944
content of plankton in Adriatic Sea during 1965 and 1966, 23:9902(R) (NP-17646)
content of plants in Finland during 1970, 25:37789(R) (NYO-3446-15)
content of plants in Finnish Lapland during 1968 and 1969, 25:18932 (NYO-3446-14, Paper 31)
content of poplar, effects of chemical, climatic, and physiological factors on, 22:19304
content of Porphyra umbilicalis in coastal waters near Windscale, England, 24:36750
content of rhodium-106 and, in fallout at Bucharest during winters of 1964 through 1966, 23:2217
content of river sediments and soils in Japan during 1969, 25:37806 (NIRS-RSD-29)
content of Sargassum in Gulf of Mexico during 1965, 23:17961(T) (AEC-tr-7030, pp 49-64)
content of seawater during 1962 to 1964, determination by gamma spectrometry, 23:33692 (CEA-R-3698)
content of seawater in North Pacific Ocean, effects of depth and latitude on, 23:49960 (BNWL-1051(Pt.2), pp 27-32)
content of seawater, effects of nuclear weapons testing, 21:43416
content of soil in Soviet Union in relation to content of farm crops, 24:12061(T) (AEC-tr-7128, pp 112-26)
content of soil of east central and northeast Georgia, fallout, 24:17040
content of surface air at Fort Collins, Colorado, during 1962 to 1967, 23:16325
content of surface air in Colorado during 1962 to 1967, 22:21460(R) (COO-1171-82)
content of vegetation during 1968 to 1969, fallout, 25:21643
content of zooplankton in Black Sea during 1965, 21:39419
content of, in fallout, 1957 to 1967, 21:10862(R) (HASL-174(App.))
content of, in fish in Solway Firth, 21:8747 (PG-Report-753)
content of, in ORNL intermediate-level waste, 21:10593 (ORNL-TM-1697)
content of, in soils, effects of forest canopy trees on, 21:10722(R) (COO-414-4)
content ratio to rhodium-106 in Albany, Oregon, atmosphere, Dec. 1968 to June 1969, 24:14082 (RLO-1750-54, pp 20-4)
cycling in lichen communities of Alaska during 1964 to 1969, effects of seasons on, 25:37751 (COO-2122-5)
deposition in MSRE core, 23:19693 (ORNL-4344, pp 109-99)
deposition in MSRE fuel and heat transfer systems, 23:21501 (ORNL-4344, pp 1-52)
deposition on earth's surface in Leningrad District, 1954 to 1965, 22:21194 (A-AC-82/G/L-1171)
deposition on graphite and Hastelloy N samples from MSRE core, 25:15625 (ORNL-4622, pp 60-118)
deposition on metal chips during processing of aqueous wastes, 23:6203
detection in radioecology studies, use of Cherenkov counting for, 25:2565
detection of, in marine alga Sargassum, 21:10737
determination following distillation on polyethylene film, radiometric, 25:46442
determination in biological materials, effects of dry ashing on, 23:47388
determination in environmental samples, 22:16420
determination in fallout, β counting method for, 25:26181
determination in fish and seaweed by chemical separation and beta counting, 24:20720
determination in fission product solution by gamma spectrometry, 22:25455 (CEA-N-616, pp 295-368)
determination in irradiated MTR fuel by gamma spectrometry as measure of burnup, 25:46434 (FMRB-36/71)
determination in liquid waste effluents from nuclear fuel reprocessing plant by γ spectrometry, 25:12950 (BRH/NERHL-70-2)
determination in MSRE fuel salt, radiochemical, 24:46307 (ORNL-4548, pp 93-186)
determination in MSRE fuel, exit gas, and core graphite, 21:21918 (ORNL-4076, pp 1-54)
determination in natural water, 21:22409 (K-L-6131)
determination in phosphate glass and spray solidified waste melt samples, direct count method for, 25:10658(R) (BNWL-1533)
determination in plutonium dioxide by gamma spectroscopy, 23:16 (PG-Report-845)
determination in potato plants, 24:11455
determination in presence of niobium-95 and zirconium-95 using coincidence detectors, 22:25455 (CEA-N-616, pp 295-368)
determination in Project Gasbuggy chimney gas, 23:31451 (UCRL-50634)
determination in radioactive waste by γ scanning, 24:33754(R) (BNWL-1401)
determination in reactor fuel processing plant solutions, method for spectrophotometric, 21:34213 (PG-Report-677(Rev.))
determination in seawater, 22:10170 (CEA-R-3284)
determination in seawater, precipitation method for, 21:40796
determination in seawater, radiometric method for, 24:48874(R) (NP-18353)
determination in solidified radioactive wastes by γ scanning, (E), 24:36044(R) (BNWL-1315-2)
determination in water using mixed ion exchange resin and γ spectrometry, 24:46193
determination in water, review on methods for, 23:26176
determination of chemical and physical forms of, in Columbia River during Hanford reactor shutdown, ion exchange studies on, 23:11444 (BNWL-481-2, pp 1-126)
determination of content of, in surface water of Pacific Ocean by ion exchange and γ spectrometry, 23:11444 (BNWL-481-2, pp 1-126)
determination of relative biological significance of, in fallout from detonations in Interoceanic Canal Studies, 21:6496 (UCRL-50050-1)
determination of rhodium-106 and, in fallout, method for, 23:2217
determination of trace amounts of, in waste solutions by least-squares resolution of gamma spectra, 21:2999
determination of, in beta-gamma sources in presence of niobium-95—zirconium-95, 21:1241 (CEA-R-3033)
determination of, in liquid radioactive wastes, method for, 21:12285(R) (ORNL-4039)
determination of, methods for, 21:14172
determination simultaneously with niobium-95 and zirconium-95, electrolytic methods in, 25:51400
diffusion coefficient measurement in DIDO 1A, analysis of, 22:37525 (AERE-R-3912)
diffusion coefficients for, from products incorporating waste solids, 24:5863
diffusion in bituminous materials and cements, 23:40967 (CEA-R-3751)
diffusion in irrigated soils from Bas—Rhone, France, effects of ionic state on, 25:21161
diffusion in pneumatically impacted uranium dioxide—plutonium dioxide, 21:33014
diffusion in pyrolytic carbon and silicon carbide coatings, 25:16585
diffusion in ruthenium and ruthenium nitrosyls, 24:20776
distribution among dissolved and suspended particles in White Oak Lake at ORNL, 22:48915 (K-1758)
distribution and characteristics of, in Operation Plumbbob fallout, 21:1461 (WT-1488)
distribution and decontamination of, in waste vitrification process, 21:10578 (CONF-660208-, pp 427-46)
distribution and excretion in dogs following inhalation in citrate form, β and γ, 24:34022 (LF-41, pp 111-16)
distribution and fractionation of fallout particles containing, 21:6055
distribution and movement in soils of USSR, measurement of vertical, 23:17554(T) (AEC-tr-7030, pp 152-6)
distribution and retention by lung tissues, in dogs following inhalation as oxide particles, 24:34017 (BNWL-1050(Pt.1), pp 3.1-66)
distribution and trapping of, in sodium reactor cooling systems, 21:12237 (LA-DC-8094)
distribution in arthropod food chains on White Oak Lake bed, 22:6772 (ORNL-4168, pp 61-118)
distribution in brown crickets, 21:8746 (ORNL-4007, pp 43-119)
distribution in grape tissues and products in France, fallout, 24:9808
distribution in Irish Sea following disposal of waste from fuel reprocessing plant, 24:34216
distribution in needles, roots, and stems of pine seedlings, 24:14412
distribution in north Pacific Ocean waters, measurements of, 25:37503 (BNWL-1551(Pt.2), pp 12-22)
distribution in nuclear explosion-fractured copper ores, 24:342 (ORNL-4422, pp 272-5)
distribution in Olympic National Park environment, 23:11444 (BNWL-481-2, pp 1-126)
distribution in plutonia—urania pellets of, effects of stoichiometry on, 21:46027(R) (NUMEC-3432-35)
distribution in seawater from Windscale Works, 22:12456 (PG-Report-819)
distribution in seawater, use of Porphyra umbilicalis as indicator organism for determining, 21:43073
distribution in surface organic layers and topsoils in Great Smoky Mountain National Park, Sept. 1961, effects of precipitation and vegetation on, 24:36387
distribution in tissues of dogs, guinea pigs, rabbits and rats, 22:8473
distribution in tissues of marine fish, 23:26774
distribution in uranium dioxide fuels at high burnups, determination by gamma scanning, 25:8951(R) (GEAP-10217)
distribution of inhaled oxide particles of, in dogs, 21:14527 (BNWL-280, pp 59-62)
distribution of inhaled oxide particles of, in lungs of rats, effects of various aerosols on, 21:14531 (BNWL-280, pp 65-6)
distribution of inhaled, by beagle dogs, 22:10825 (BNWL-480, pp 55-83)
effects of, as environmental contaminant of Chironomus tentans, relation to chromosome aberration incidence, 21:8766
effects on carcinogenesis in lungs of rats following implantation as pellets in bronchi, effects of dose on β and γ, 24:27676 (CONF-691001-, pp 321-51)
effects on cells in rabbit eye, β, 23:20374
effects on copper contamination during recovery from ores fractured by nuclear explosives, 24:36357(R) (ORNL-TM-3034)
effects on determination of plutonium in aqueous solutions by liquid scintillation, 22:40018
effects on dogs following intravenous injection, pathological, 25:24418
effects on gastrointestinal tract of rats, pathological, 22:49331
effects on hematogenesis and lungs of rats following chronic intratracheal administration, injurious, 25:24326(T) (AEC-tr-7195, pp 388-96)
effects on lungs of animals and man following inhalation, review of carcinogenic, 24:27703 (CONF-691001-, pp 77-101)
elimination from rats, use of chelating agents for, 23:22278(T) (AEC-tr-6944, pp 713-18)
energy levels from technetium-106 beta decay, spin—parity assignments for, (E), 25:28326 (CERN-70-30(Vol.2), pp 985-1000)
energy levels from technetium-106 decay, (E), 24:43386
extraction from cement copper, use of solvent extraction with LIX-64 for, 21:30560(R) (ORNL-TM-1886)
fallout at Leningrad from 1954 to 1965, 22:12453
fallout at selected U.S. stations, 1960 to 1963, 21:41019(R) (HASL-182)
fission product activity in irradiated fuel elements, spectrometric determination of burnup by, 21:17562 (AE-267)

fixation of, in carbonaceous rocks, effects of calcination and silicon dioxide on, 21:10340
gamma spectra from irradiated fuel elements, estimation of fission rates in uranium-235 and plutonium-239 from, (E/T), 24:29092 (AE-390)
gamma spectra in presence of ruthenium-103, least-squares analysis of, 21:28243
gamma spectra of, for estimating burnup and production of plutonium in nuclear fuel elements, 22:14525
hazards of ingested, effects of particle size and animal age on, 21:28586 (BNWL-SA-1144)
inhalation by rats, apparatus for, 25:6609(T) (AEC-tr-7169, pp 55-66)
inhalation by rats, dynamics of, 22:8538
inhalation by rats, kinetics of, 22:8476
leach rate from emulsified asphalt, 23:2545
leach rate of, from emulsified asphalt containing radioactive waste, 21:30663 (ORNL-4003)
leachability and volume strength of liquid, for incorporation in concrete mixtures, 25:41833(R) (IA-1218)
leaching from cements and clay grouts in geologic formations, 22:16824
leaching from copper ores fractured by underground nuclear explosions, effect of leach solution acidity on, 22:45208(R) (ORNL-TM-2298)
metabolism by marine animals in relation to contamination of human food, 23:20107
metabolism in Acheta domesticus, 21:32651 (ORNL-P-3081)
metabolism in animals, 23:50279 (PHS-999-RH-33, pp 45-50)
metabolism in aquatic and marine algae, 22:47461
metabolism in cattle of, 21:26409(R) (COO-1171-62)
metabolism in fish, 23:16256 (NIRS-7, pp 83-97)
metabolism in guinea pigs, mice, and rats, 23:11940(T) (AEC-tr-6972)
metabolism in mammals and man, review of, 25:32326
metabolism in man following oral administration in shellfish, 23:20100
migration in ground water, at Hanford liquid waste disposal area, 21:24185 (ISO-SA-32)
monitoring in atmosphere at Savannah River Plant during 1969, 24:25473(R) (DPST-70-30-1)
monitoring in bivalve mollusks in North Carolina, 23:18012 (CONF-670503-, pp 493-504)
monitoring in environs of Savannah River Plant, 24:25473(R) (DPST-70-30-1)
monitoring in irrigation canal sediment and water downstream from nuclear power centers on Rhone River, 25:2543
monitoring in Japan during 1961 to 1965, 21:36615
monitoring in plant parts and soil, 21:22407 (EIR-103)
monitoring in PRTR oxide fuel element failure on September 29, 1965, 22:32744 (BNWL-SA-668)
monitoring in river sediments, soils, and water in Japan, 24:31890 (NIRS-RSD-22, pp 1-12)
monitoring in water at Savannah River Plant during 1969, 24:25473(R) (DPST-70-30-1)
monitoring in water, use of molluscs for biological, 24:4592
monitoring of marine fish in Norway during 1961 to 1968, fallout, 24:34226
movement of, in ground, effect of groundwater flow on, 21:8565 (ORNL-4007, pp 1-41)
movement through soils, effect of chelating agents on, 21:19763
nuclear deformation parameter, (E), 24:43386
nuclear magnetic quadrupole moment, (E), 24:43386
passage through gastrointestinal tract of rats following gastric administration, effects of age on, 23:50305
penetration into MSRE and pyrolytic graphite, γ spectrometric study of in-pile, 23:9306 (ORNL-4343, pp 62-84)
permissible annual intake of, in Sweden, 21:1539 (AE-234)
precipitation in irradiated uranium carbide, effects of annealing time on, 24:14917
production by US power reactors through 1990, 22:45245 (BNWL-716)
production in power reactor spent fuel elements, estimates to 1990 of, 22:24933 (BNWL-SA-1529)
production in power reactors, economic aspects of, 22:119
production of carrier-free, from neutron irradiation of uranium oxide, 23:326
production of sealed radiation sources of, design of equipment and facility for, 23:33290 (CEA-R-3622)
properties for radioisotopic heat sources, 22:16770 (BNWL-680, pp a.1)
radioactivity of, in fauna of Solway Firth, 21:12803 (PG-Report-752)
reactions with macromolecules dissolved in seawater, 23:40624
release from simulated phosphate ceramic waste, 21:3229(R) (BNWL-306)
release in accidents, summaries of papers on, 23:29472 (KURRI-TR-34)
release rate of, from simulated high-level ceramic wastes, effect of temperature on, (E), 21:17805 (BNWL-338)
release to soil from organic debris in forest as function of decomposition mode and time, 25:2528
removal from aluminum, chemical and electrolytic methods for, 22:12422
removal from painted surfaces, performance of detergents for, 23:40958
removal from solutions in processing plants using EDTA in sodium carbonate, 21:14635 (CEA-R-3104)
removal from surfaces, effects of surface-active agents on, 24:27322
removal of, from waste calcining facility off-gas stream, 21:10577 (CONF-660208-, pp 388-99)
retention in dogs, mice, monkeys, and rats following ingestion or injection as chloride, 25:49091
retention in lungs of dogs, pathological effects of, 21:34650(R) (BNWL-322)
retention in young mice, whole-body, 24:39456 (NIRS-8, pp 63-79)
scavenging from seawater by algae, 23:35353
separation by solvent extraction using naphthenic acid, 22:35904
separation from cement copper, electrolytic method for, 23:362 (ORNL-4272, pp 187-91)
separation from copper extracted from nuclearly fractured ores, method for, 25:57523 (ORNL-4677)
separation from copper leach solutions, electrolytic method for, 21:6094 (ORNL-TM-1688)
separation from copper leach solutions, electrolytic method for, 21:36183(R) (ORNL-TM-1932)
separation from copper ores mined by nuclear explosives, 21:17747 (ORNL-TM-1775)
separation from copper produced by nuclear explosions, electrolytic method for, 24:41552 (CONF-700101-(Vol.2), pp 1569-88)
separation from fission product solutions by flotation, 23:7715 (KURRI-TR-21)
separation from fission products in reactor fuel processing plant solutions by distillation, 21:34213 (PG-Report-677(Rev.))
separation from glass melter condensate, use of phosphatungstates for, 21:22114(R) (BNWL-365)
separation from intermediate level waste solutions by ion exchange using organic resins, 25:32036 (CEA-N-1419, pp 91-113)
separation from intermediate- and low-level liquid wastes, flotation method for, 24:36351 (KURRI-TR-73)
separation from irradiated aluminum—uranium and uranium—zirconium fuels by chlorination and pyrohydrolysis, 25:6395 (CEA-N-1341, pp 337-61)
separation from irradiated aluminum—uranium and uranium—zirconium fuels by chlorination and pyrohydrolysis, 25:26332(T) (ORNL-tr-2410, pp 98-120)
separation from irradiated aluminum—uranium fuels by halide volatility method, 25:32039 (CEA-N-1419, pp 271-96)
separation from irradiated thorium—uranium fuels by solvent extraction using N-methyldidecylamine, 25:51566 (A/CONF.49/P-650)
separation from irradiated uranium dioxide pellets by desorption using barium chloride bed, 25:21108
separation from lead, chemical and electrochemical methods for, 23:429
separation from liquid waste solutions, effects of iron compounds on, 25:51564 (A/CONF.49/P-621)
separation from long-lived uranium fission products, ring-oven method for, 24:46315
separation from low- and medium-level wastes, use of zeolites for, 21:30658 (EUR-3452.f)
separation from plutonium dioxide—uranium dioxide fuels, solvent extraction method for, 22:27845 (CEA-N-816, pp 150-276)
separation from radioactive waste in seawater, coagulation method for, 24:31456
separation from seawater by flocculation using copper ferrocyanide, 24:36363
separation from shale oil for oil recovery by underground nuclear explosion retorting, 21:36183(R) (ORNL-TM-1932)
separation from solutions of irradiated fuel elements by solvent extraction, 24:33775
separation from waste solutions by flotation methods, 23:24291
separation from water by slurrying with Yazoo and Zilpha clays, 22:25482
separation of colloids or ions of, from solutions using foams, 25:238
separation of neptunium from, by solvent extraction using tridodecylamine and ion exchange, 22:27848 (CEA-N-816, pp 359-414)
separation of neptunium from, by solvent extraction using 1-nitroso-2-naphthol, 24:11674
separation of phosphorus-32 and phosphorus-33 from, precipitation method for, 24:11669
separation of plutonium and uranium from, by solvent extraction using TBP in dodecane, 22:25452 (CEA-N-616, pp 154-214)
separation of plutonium from, by ion exchange on zirconium phosphate silicate columns, 25:10677
separation of plutonium from, by solvent extraction using tridodecylamine, 25:6393 (CEA-N-1341, pp 245-315)
separation of plutonium from, by solvent extraction using tridodecylamine, 22:25452 (CEA-N-616, pp 154-214)
separation of plutonium from, by solvent extraction using tridodecylamine, 25:26330(T) (ORNL-tr-2410, pp 14-78)
separation of residues of, from water, ion exchange, 23:2386
separation of, from chloride solutions using iron hydroxide colloids, foam method for, 21:4600
separation of, from sea water by electrodialysis through ion exchange membranes, 21:10435
sorption by algae, fish, and silts in Cattaraugus Creek in New York, effects of effluent from nuclear fuel reprocessing plant on, 23:45684
sorption by Black Sea shallow water sediments, 23:11675
sorption by Black Sea soils, effects of carbonate content of soil and particle size on, 23:26362
sorption by clays, diatomaceous earths, and synthetic aluminum oxides and silicates, 23:338 (CEA-R-3554)
sorption by dead tissues of aquatic plants in aquatic ecosystem, 24:7777
sorption by intestine of mice following ingestion, effects of age on, 24:23080 (CONF-690501-, pp 217-26)
sorption by intestines of rats, effects of age and particle size on, 22:10676 (BNWL-480, pp 85-97)
sorption by rocks, sands, silts, and soils of Black Sea, 23:9930(T) (AEC-tr-6940, pp 80-7)
sorption by sodium ferrocyanide—sodium molybdate ion exchanger, effects of ammonium nitrate, nitric acid, and sodium chloride on, 24:9442
sorption by zeolites, 22:45151
sorption from sodium chloride solutions on synthetic zeolite Linde 4A, 24:14040
sorption from water by browncoal, sawdust, and soils, effects of acidity, concentration, and time on, 24:9488 (SZS-6/69)
sorption in bones, liver, and muscles of rats following intravenous and peroral administration, 25:6607(T) (AEC-tr-7169, pp 15-32)
sorption in intestine of young mice, 24:39456 (NIRS-8, pp 63-79)
sorption of colloidal, by activated manganese dioxide and vermiculite in presence of EDTA, 21:4493
sorption of, by activated manganese dioxide from potassium chloride solutions, 21:3053
sorption of, by hydrated ferric oxide, effects of silver oxide and sodium nitrate on, 21:1443
sorption of, by manganese oxides in water works filter bed materials, 21:16006
sorption on clay-type minerals, 24:20864
spectra of bomb fallout, in old rain samples, 22:42878
transfer into fetus through placenta from maternal blood, 25:32338
transport and accumulation of, in Clinch and Tennessee Rivers, 21:22117 (ORNL-4035)
transport in aquatic algae, benthic fauna, and algae, 24:21105
transport in Columbia River, effects of shutdown of Hanford reactors on, 23:11444 (BNWL-481-2, pp 1-126)
transport in freshwater ecosystems, development of dynamic models for, 25:37742 (A/CONF.49/P-85)
transport in insect food chains, 21:32651 (ORNL-P-3081)
transport in irrigated soils, 25:10692
transport in natural plant communities, 25:37742 (A/CONF.49/P-85)
transport in roots of Adenostoma, Ceanothus, and Quercus, 25:10955
transport in seawater, role of euphausid crustaceans in, 24:34227
transport in soil, 21:43323
transport in soils, effects of physicochemical processes on, 25:2364
transport of liquid waste-contained, in continental environment, physicochemical processes for, 24:27311 (CEA-CONF-1430)
transport of, by seaweed and food of animal origin, 21:12805
transport through atmosphere, food chains, and water to animals and man, 24:23128(T) (AEC-tr-7126)
uptake and distribution in freshwater and marine organisms, effects of temperature on, 25:26587
uptake and retention of, in algae and invertebrates in sea water aquaria, 24:21094 (CEA-CONF-1464)
uptake and translocation in browse plants, 24:34029(R) (UCB-34-P-23-X-1)
uptake by algae in seawater, 21:16305
uptake by bean and tomato seedlings in culture media in comparison to forage plants, 25:10936 (UCB-34-P-23-15)
uptake by clams from sea water, 23:16256 (NIRS-7, pp 83-97)
uptake by corn, lettuce, and tomatoes, effects of soil fertility and time on, 21:32637 (CONF-661018, pp 36-52)
uptake by corn, potatoes, tomatoes, and wheat, effects of soil type on, 24:7711 (AD-694531)
uptake by crabs and mollusks from seawater, 23:9929(T) (AEC-tr-6940, pp 71-9)
uptake by developing eggs of fish, effects of, on genetics, morphology, and survival of larvae, 23:9825(T) (AEC-tr-6940, pp 47-51)
uptake by fish eggs, 24:50923
uptake by green plants following contamination of environment by fresh fallout, 24:34198
uptake by hornworts and mosses, effects of state of viability on, 21:34601
uptake by lobsters, 24:34224
uptake by man following ingestion of contaminated water, 24:21093 (CEA-CONF-1341)
uptake by man following inhalation, 22:33715 (SZS-15/67)
uptake by man from fresh fallout, calculation of radiation dose following, 24:34322 (UCRL-50790)
uptake by man from mule deer liver in diet, 21:20111 (COO-1156-18)
uptake by marine algae, fish, and invertebrates, concentration factor for, 24:34223
uptake by marine bacteria and yeasts, 24:34225
uptake by mussels, effects of physico-chemical form on, 22:28324
uptake by organisms of marine food chain, effects of physico-chemical form on, 25:55149 (BNWL-SA-4048)
uptake by plants grown in sand, loam and clay soils, 21:17952 (NP-16646)
uptake by poplar trees, effects of chemical, climatic, and physiological factors on, 23:29419(T) (AEC-tr-7040)
uptake by wheat plants from fission-product-contaminated soil, 21:24357
uptake by wheat, mechanism of fallout, 24:41866
uptake from food by fish, 23:50321
uptake from food chain and sea water by genuine goby fish, 24:31901
uptake from soil by ladino clover, effects of soil pH on, 24:34029(R) (UCB-34-P-23-X-1)
uptake of, by excised roots of barley, corn, and soybeans, effects of complex formation with humic acid on, 21:20086
uptake of, by vegetables, effects of foliar or root application and soil conditions on, 21:12746 (CONF-651008-, pp 94-125)
use as neutron source, 21:16070 (EUR-3252.f)
use as source in beta backscatter method for measurement of egg shell strength, 22:21296

  use as tracer to study Columbia River processes, 21: 15998
  uses of underground nuclear explosion-produced, as tracer for hydrological studies, 24:36449(T) (UCRL-Trans-10458)
  volatility of, effects of vitrification of fission product concentrates on, 25:32041 (CEA-N-1419, pp 331-409)
  yield from absolute thermal fission of uranium-235, (E), 22:25129(R) (IN-1178)
  yield from spontaneous fission of californium-252, (E), 25:34147
  yields from spontaneous fission of uranium-238, (E), 25: 28384
  yields from thermal neutron fission of plutonium-239 and plutonium-241, 23:23910(R) (IN-1277)
  rhodium-106—ruthenium-106, determination in water by beta counting using Cherenkov effect and liquid scintillation counter, 24:2142
RUTHENIUM ISOTOPES Ru-107
  transport of liquid waste-contained, in continental environment, physicochemical processes for, 24:27311 (CEA-CONF-1430)
RUTHENIUM ISOTOPES Ru-108
  determination following distillation on polyethylene film, radiometric, 25:46442
  energy levels from technetium-108 decay, (E), 24:43386
RUTHENIUM ISOTOPES Ru-109
  half life, (E), 21:19262
  half-life of, 25:20942
  nuclear properties of, Nuclear Data Sheets for, (E), 25: 53757
  yields in fission of uranium-235, (E), 21:27597
RUTHENIUM ISOTOPES Ru-110
  decay and energy-level transitions following californium-252 fission, (E), 25:3673
  energy level diagram, (E), 24:43386
  energy levels and nuclear properties of, Nuclear Data Sheets for, (E), 25:36808
RUTHENIUM NITRATES
  see also Ruthenium Nitrosyl Nitrates
RUTHENIUM NITRIDES
  complexes with ammonia, radiolysis of, oxidation and reduction in electron pulse and γ, 25:34657
Ruthenium Nitroso Compounds
  see Ruthenium Nitrosyls
RUTHENIUM NITROSYL NITRATES
  separation from nitric acid solutions by solvent extraction using TBP, thermodynamics of, 25:21130
  separation from radioactive waste water by sorption on activated carbon, 24:39036
  sorption of, by resins, mechanism of, 21:8249
  uptake of ruthenium-106-labeled, by clams, 22:28324
RUTHENIUM NITROSYLS
  complexes with nitrosonaphthols, formation constants for, 24:41406
  decomposition of, 24:20868
  derivatives of, introduction to seawater via effluent of fuel element plant, 23:24622
  formation of radiocolloids of, 21:43037
  nitro complexes, formation in process solutions, effects of acidity, aging, and organic acids on, 21:45100
  physicochemical properties of, discharged into seawater by spent fuel processing plants, 25:13013
  removal from contaminated seawater and irradiated-fuel processing plant waste solutions, use of chitin or chitosan for, 25:16116
  ruthenium-106 diffusion in, capillary method for measurement of coefficients of, 24:20776
  separation from fission products, 24:20868
  separation from radioactive waste water by sorption on activated carbon, 24:39036
  separation from tetravalent or trivalent ruthenium by cation exchange, 24:29356
  separation of colloidal or ionic ruthenium-106-labeled, from solutions using foams, 25:238
  separation of colloidal, from aqueous solutions, 21:43037
  separation of ruthenium-106-labeled colloids of, from aqueous solutions by adsorption, centrifugation, and ultracentrifugation, 21:30506 (UJV-1697)
  sorption of colloidal and ionic, by ferrous hydroxide formed by electrodissolution of iron anode, 21:30507 (UJV-1733)
  sorption of, from nitric acid solutions by activated carbon modified by benzenearsonic acid, 21:155
RUTHENIUM OXIDES
  decomposition of RuO$_4$, kinetics of thermal, 23:24140 (CEA-R-3663(2))
  deposition on steel tubing, 23:24140 (CEA-R-3663(2))
  deuterium exchange reactions between water-d$_2$ and alkyl benzenes on self-activated, 21:10322
  distribution between molten iron and uranium dioxide at 2850 to 3000°C, 25:52318(R) (ANL-7820)
  distribution of inhaled oxide particles of, in lungs of rats, effects of various aerosols on, 21:14531 (BNWL-280, pp 65-6)
  electromotive force measurements on galvanic cells containing, at 25 to 2000°C, 22:27704
  phase equilibria of, in waste calciner off-gases, 21: 5991(R) (IDO-14680)
  production and properties of aerosols of, 25:29077 (LF-43, pp 18-24)
  reactions with dichlorodifluoromethane at 450 to 800°C, production of corresponding chloride and/or fluoride compounds by, 24:41296
  ruthenium-99 Moessbauer isomer shifts in, 25:1335
  separation from rhodium by extraction using carbon tetrachloride, 21:32258
  thermal stability and melting point of, effects of electronic configuration on, 21:22919
  thermodynamic properties of, 25:39470(R) (ANL-7750)
  thermodynamic properties of gaseous diatomic, free energy functions for, 25:29082
  volatility to 930°C, effects of water vapor on, 24:36962 (AD-702884)
  volatilization and deposition of RuO$_2$, in relation to FINGAL process, 25:51571 (AERE-R-6418)
  volatilization of RuO$_4$, from radioactive waste calciners, 22:15251 (IN-1013)
  O—RuO$_2$—RuO$_4$, pressure equilibria at 453 to 723°C, 22:15251 (IN-1013)
RUTHENIUM OXYFLUORIDES
  distribution in process stream during reprocessing of irradiated uranium dioxide fuels using bromine pentafluoride, 22:25443 (ANL-7375, pp 46-94)
  vapor pressure—temperature data for, 25:34602 (GAT-649)
RUTHENIUM SELENIDES
  RhSe$_2$—RuSe$_2$, superconductivity in, critical carrier concentration for, 25:11844
RUTHENIUM SULFATES
  decomposition and high-temperature properties of, 22: 4068 (NSRDS-NBS-7)
RUTHENOCYANIDES
  see also Potassium Ruthenocyanides
Rutherford Synchrotron (NIMROD)
  see Harwell Synchrotron (NIMROD)
Rutherfordium
  see Element 104
RUTILES
  see also Ilmenorutile
  see also Titanium Oxides
  analysis for zirconium by colorimetry using Alizarin red S, 23:19654
  coloration by mercury, 21:44150(R) (COO-1434-3)
  content in neogene sediments of Niigata Prefecture, Japan, 22:51118
  creep and recovery of, research program on, 25: 11472(R) (AD-708705)
  creep recovery in stoichiometric, mechanisms of, 25: 11473(R) (AD-708712)
  defects in irradiated single crystals of, electron microscopic study of nonequilibrium extended, 25: 22205
  dielectric loss spectra of crystals of, 24:30400 (TID-25434)
  diffusion of interstitials in, 21:44150(R) (COO-1434-3)
  diffusion of oxygen-18 in monocrystals of, 21:14183(R) (ORO-2858-18)
  electric conductivity of oxidized crystals of, (E), 21: 44150(R) (COO-1434-3)
  electron paramagnetic resonance studies of titanium interstitials in n-type, 22:9421 (COO-1284-6)
  lattice dynamics of, 25:37239 (TID-25720)
  lattice normal-mode frequencies in, inelastic neutron scattering study, 23:30612(R) (ORNL-4408)
  molecular structures of oxides related to, 22:47710
  neutron inelastic scattering by crystals of, selection rules for, 23:51793
  phase boundaries in, bright-field images of anti-, 21: 18278(R) (EURAEC-1758)
  phonon spectra of, 24:32918 (ORNL-4526, pp 64-75)
  radiation damage in, dielectric loss study of electron, 24: 30400 (TID-25434)
  radiation effects on flotation behavior of, beta, 22:42796
  radioactivity in Madras State beach sands, 23:474
  radioinduced disorder in, effects of annealing on heavy ion, 23:22697
  radioinduced paramagnetic defects in single-crystal, ESR study of annealing of gamma and neutron, 25:27853
  reserves and resources of deposits of, in Union of South Africa for rare earth production, 24:22798 (PEL-193)
  spectra of deuterons or protons trapped near impurity centers in, infrared, (E), 22:3163 (COO-1434-04)
  spectra of protons and defects in, absorption, (E), 21: 44150(R) (COO-1434-3)
RUTIN
  complexes with beryllium, titanium, and uranium, infrared study of structure of, 22:16493
  complexes with beryllium, titanium, or uranium, stability of, 21:45063
  complexes with scandium, spectrophotometric studies on, 22:16503
  effects on oxygen content of sarcomas, effects of, on radiosensitivity, 22:33878
  effects on yields of ethylene glycol in γ radiolysis of methanol solutions containing nitrous oxide, 23:43342
  radioprotective effects of derivative of, on skin capillaries in guinea pigs and rabbits, x, 21:41447
  radioprotective effects of, on skin, uv, 22:49393
  radioprotective effects of, on survival of mice, γ, 22: 38415
RUTIN, 0-(2-HYDROXYETHYL)-
  radioprotective effects of, on capillaries of duodenal mucosa in mice, whole-body x, 25:32443
RUTIN, TRIS(HYDROXYETHYL)-
  radioprotective effects of, on bladder, rectum, and skin of man, during therapy of carcinomas of ovaries and uterus, radium γ and x, 22:31163
  radioprotective effects of, on blood vessels in rabbit ears, electron, 22:40797
  radioprotective effects of, on blood vessels of rabbit ear chambers, electron, 23:781
  radioprotective effects of, on capillaries of rabbits, fast electron, 22:40738
  radioprotective effects of, on oxidative phosphorylation in mitochondria of rat livers, 23:22348
  radioprotective effects of, on skin of mice and rats, x, 23:855
  radioprotective effects on tissues, wound tests on rabbit ears and guinea pigs abdominal skin for evaluation of, 25:21746
RV-1 Reactor
  see Reactors, Research
Rye (Secale)
  see Secale under Angiospermidae
Rye (the commodity)
  see rye under Cereals

COLLECTIONS OF USAEC REPORTS IN COUNTRIES OTHER THAN THE UNITED STATES

ARGENTINA
Buenos Aires, Comisión Nacional
de Energía Atomica

AUSTRALIA
Canberra, National Library of Australia
Sutherland, New South Wales
Atomic Energy Research Establishment

AUSTRIA
Vienna, Zentralbibliothek der
Physikalischen Institute der Universität

BELGIUM
Mol-Donk, Centre d'Etude de l'Energie
Nucléaire

BRAZIL
Rio de Janeiro, Comissão Nacional
de Energia Nuclear
São Paulo, Instituto de Energia Atomica

CANADA
Chalk River, Ontario, Atomic Energy
of Canada, Ltd., Chalk River
Ontario, McMaster University
Ottawa, National Research Council
Vancouver, B.C., University of British
Columbia Library

DENMARK
Risö, Danish Atomic Energy Commission

FINLAND
Otaniemi, Teknillinen Korkeakoulu

FRANCE
Saclay, Gif-sur-Yvette, Centre
d'Etudes Nucléaires de Saclay

GERMANY, WEST
Leopoldshafen, Zentralstelle für
Atomkernenergie Dokumentation
Munchen, Technischen Universitat

GREECE
Athens, Nuclear Research Center,
Democritus Library

INDIA
Bombay, Trombay, Bhabha Atomic Research
Center Library

IRAQ, REPUBLIC OF
Baghdad, Atomic Energy Commission,
Nuclear Research Instituto

IRELAND
Dublin, University College

ISRAEL
Yavne, Israel Atomic Energy Commission,
Soreq Nuclear Research Centre

ITALY
Rome, Centro di Studi Nucleari
della Casaccia

JAPAN
Tokyo, National Diet Library
Tokai-Mura, Naka-gun, Ibaraki-ken,
Japan Atomic Energy Research Institute

KOREA, REPUBLIC OF
Seoul, Atomic Energy Research Institute

MEXICO
Mexico, D. F., Comisión Nacional
de Energía Nuclear

NETHERLANDS, THE
Petten, Holland, Reactor Centrum
Nederland
The Hague, Bibliothek Octrooiraad

NORWAY
Kjeller, Institutt for Atomenergi

PERU
Lima, Junta de Control de Energia Atómica

PORTUGAL
Sacavem, Junta de Energia Nuclear

SOUTH AFRICA, REPUBLIC OF
Pretoria, Atomic Energy Board Library

SPAIN
Madrid, Junta de Energia Nuclear,
Ciudad Universitaria

SWEDEN
Nyköping, Aktiebolaget Atomenergi
Library

SWITZERLAND
Zürich, Swiss Federal Institute of
Technology

UNITED KINGDOM
Harwell, Didcot, Berkshire, Atomic
Energy Research Establishment
London, National Reference Library

IN INTERNATIONAL AGENCIES

EUROPEAN ATOMIC ENERGY COMMUNITY (EURATOM)
Brussels, Belgium
Ispra Varese, Italy, Cetis Library

OECD NUCLEAR ENERGY AGENCY (NEA)
National Lending Library for Science and
Technology, Boston Spa, Yorkshire,
England

INTERNATIONAL ATOMIC ENERGY AGENCY (IAEA)
Vienna, Austria